



FOREST PRESERVE DISTRICT OF DUPAGE COUNTY

GREENE VALLEY

MASTER PLAN

APRIL 2023

Adopted on April 18, 2023

ACKNOWLEDGMENTS

Forest Preserve District Of DuPage County

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Prepared for:



**Forest Preserve District
of DuPage County**

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

The Forest Preserve District of DuPage County (District) was established in June of 1915 and is governed by a seven member Board of Commissioners. Six Commissioners are elected from individual districts, and the President is elected at large by the voters within DuPage County. The purpose of the Forest Preserve District of DuPage County, as stated in the 2014 Strategic Plan, is;

"...to acquire, preserve, protect, and restore the natural resources of DuPage County while providing opportunities for people to connect with nature"

Each year millions of people visit the preserves to hike, bike, picnic, fish, boat, camp, golf, and attend naturalist and ranger-led programs.

In 2019, the District completed an overall master plan for all of its land holdings, which includes 26,000 acres over 60 different preserves. This plan was formulated by incorporating public outreach, survey efforts and reviews of research, national trends, and state and regional priorities. It was determined that the Forest Preserve District should invest in improving existing natural resources and mission-aligned facilities and experiences. One of the recommendations to come out of the 2019

plan was to prepare master plan for key, specific preserves that are both large in scale and receive the greatest number of visitors each year. The preserves selected for this effort include Blackwell, Greene Valley and Waterfall Glen. The planning process was split into two (2) work efforts. The first is the Discovery & Analysis stage of work, which included gathering background data, site visits, stakeholder engagement, a market & demographic study and site analysis. The Discovery and Analysis report was completed in October of 2021.

This report document includes work completed during the second planning stage and includes idea generation, refinement and final recommendations that have been vetted with District staff and the Commissioners. This master plan serves as a plan of action or 'road map' for future development at Greene Valley and is directly tied to the mission of the Forest Preserve District.

The plan is responsive to the surrounding environment, current and future needs, and interests of the public. Each plan establishes mission-aligned goals and objectives based on demographic and economic trends, physical and natural resources, and specific information gathered during the stakeholder engagement process. The plans emphasize each preserve's natural and physical resources and unique character.

The plans evaluate how each preserve fits into the larger open space network and evaluates site access, circulation, recreational resources and use, agreements and easements and linkages as well as conservation, ecological restoration and education initiatives.

Greene Valley

Greene Valley Forest Preserve is located in Naperville at 1,388 acres is one of the country's most botanically diverse sites and features a variety of recreational opportunities among remnants of DuPage County's agricultural past. The preserve offers 12 miles of marked trails, picnic shelters, an off-leash dog area, a model aircraft area, a youth campground and a scenic overlook at the top of the former Greene Valley Landfill. In 2019, the Forest Preserve District Board of Commissioners created an ad hoc committee to explore the best public use for the Greene Farm Barn located at the north end of the property. The committee's recommendation was to create "a unique multi-functional gathering space within a natural, historical setting that helps community members pursue individual growth and personal relationships through exploration and shared experiences at the Greene Farm Barn". An important component of the master planning effort has been to link the committee's work to the preserve as a whole and make recommendations for improvements that align with the District's mission, 2019 Master Plan and comments from stakeholder engagement sessions.

In addition to considering the work of the ad hoc committee, a new vision for the future of the preserve is needed that identifies and capitalizes on its many assets. This includes refining recreational amenities such as the youth campground, trails, off-leash dog area and picnic areas while identifying opportunities for new amenities such as a canoe launch. Improvements to preserve access and support infrastructure like parking lots, restrooms, site utilities and past ADA accommodations are recommended.

The plan also calls for major habitat improvement projects along the East Branch of the DuPage River and continued stewardship of high-quality woodlands and other natural areas within the preserve. Additionally, the plan includes a vision for how the landfill can feasibly be integrated with the rest of the preserve after it is turned over to District control in the future. Finally, while the market study that was performed during the Discovery and Analysis phase for the Greene Farm Barn as a revenue generating event facility demonstrated that while there may be a market for such a facility, the income generated from the operation would unlikely fund the cost of adaptive re-use in a reasonable payback period. Because the return on investment is unfavorable and a revenue generating event facility is not well aligned with the Forest Preserve District's mission, the plan recommends maintaining the barn on the landscape to be appreciated from the exterior and leaves the opportunity available for a future partner to come forward to renovate, operate and maintain the facility.

EXECUTIVE SUMMARY

During the course of the planning work, some community members expressed interest in the Oak Cottage near the Greene Farm Barn. The plan recognizes this interest and recommends that a study of the house be conducted to determine its condition and historic significance. The plan further recommends that a defined time-frame should be established (3 years or less) for interested parties to identify a purpose and means to maintain the structure. If a third-party partner does not establish a mission-aligned plan for use and maintenance within the defined time-frame, then a means to interpret the structure should be developed and the structure should be removed from the landscape.

At the time of the second stage of this three-preserve study, the District began a Clean Energy, Resiliency & Sustainability Plan. While this work is being completed separately, many of the recommendations of that report will need to be considered when implementing the recommendations for the preserve.

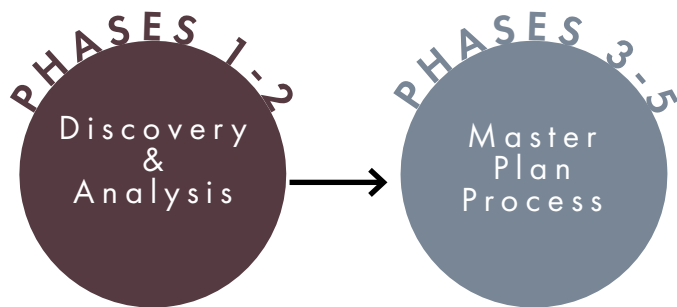
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BACKGROUND & PROCESS

PLAN APPROACH

This plan is a part of a five-phase planning and design process for the Forest Preserve District of DuPage County. The purpose of the process is to create a comprehensive master plan and vision for the Greene Valley Forest Preserve that provides clear direction for future improvements and initiatives.

This document is a summary of Phase 3 - Ideas, Phase 4 - Refinement, and Phase 5 - Delivery. During these phases, the project team developed a conceptual framework plan based on identified opportunities, refined the framework plan and selected high priority areas to study in more detail, facilitated a meaningful public engagement process and delivered an implementation plan. For more information on Phase 1 and 2, see the appendix.



PHASES 3 - 5

Ideas, Refinement and Delivery

Stantec worked closely with FPDDC staff to develop ideas for improvements at Greene Valley. Collaboration and communication was critical, and

the staff at the Forest Preserve District were able to provide Stantec with guidance to positively impact the future of the preserve.

Using the Discovery and Analysis findings, Stantec began assessing opportunities and constraints within the preserve and developed ideas and preliminary recommendations vetted by District staff and the public.

Stakeholder Engagement

Using a Public Participation Plan created by Stantec and FPDDC Staff, the team conducted six additional public engagement sessions during this stage of the project. These sessions included focus group meetings, staff, department, and public engagement sessions. The goal was to provide users of the preserves and key stakeholders options to provide their input, some of the sessions were held virtually. In addition to the sessions, a virtual StoryMap (project website) detailing the planning process was available to those interested in finding out more, and a survey was open to the public for response. With over 100 survey responses, more than 3,000 StoryMap views, and nearly 15 attendees at the in person engagement sessions, the project team was able to collect valuable input and important observations and preferences for the Framework Plans. For a more detailed summary of the engagement process, see Chapter 3.

Schedule

See Phases 3-5 Schedule graphic which shows the three final phases of work and some of the key tasks associated with the work.

PHASES 1-2
(Completed
October 2021)

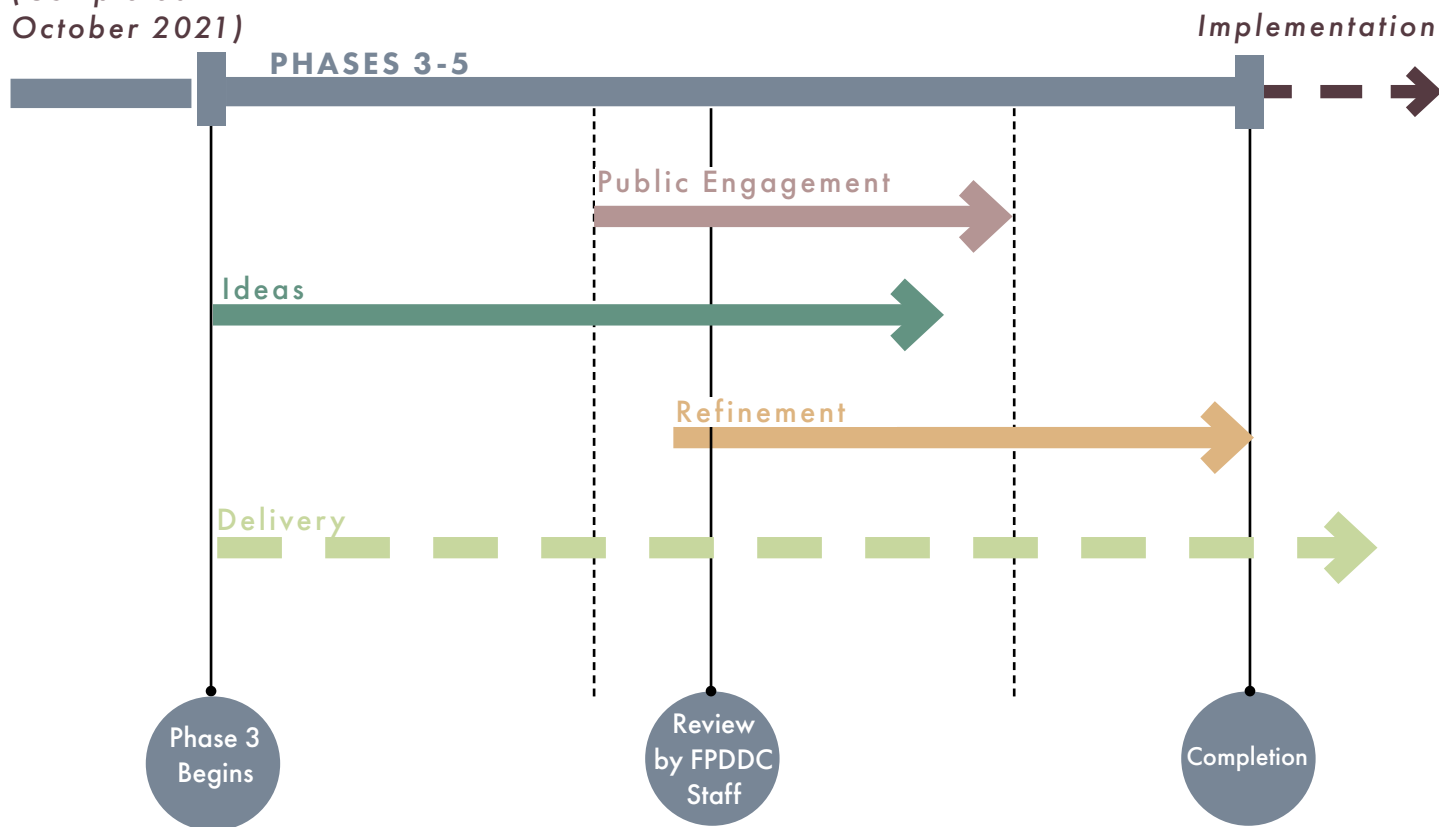


Illustration of Phases 3-5 Schedule

VISION AND GOALS

Parks and Forest Preserves

There are key differences between the purpose, mission, funding, and jurisdictional management of parks and forest preserves.

Parks are typically managed by municipal parks departments or park districts, whereas forest preserves are usually larger tracts of land typically managed by State or County entities, each with different laws, regulations, and funding mechanisms.

Many parks provide active recreation including ball fields, walking paths, water parks and playgrounds, while forest preserves provide resource-based outdoor recreation such as hiking, biking, wildlife watching, camping, off-leash dog areas, picnicking, fishing, and boating.

Forest Preserves are also managed and maintained to protect and preserve natural areas; manage watersheds to provide flood control and enhance water quality; and provide habitat for endangered, threatened, and common native plant and animal species.

VISION STATEMENT

Greene Valley, located in southern DuPage County, is a popular destination for neighbors and the broader community at large to enjoy hiking, biking, cross-country skiing, wildlife watching and visits to the off-leash dog area. It is well connected to regional trails and is readily accessible to surrounding neighborhoods. Natural resource assets and cultural history contribute to Greene Valley's unique character.

”

GOALS

NATURAL

1

Manage natural areas to increase habitat quality and value.

2

Maintain and improve wildlife and insect diversity and quality.

3

Reduce impacts and disturbance to natural resources.

PHYSICAL

1

Improve vehicular access, circulation, and parking.

2

Improve the functionality, efficiency, and connectivity of trails.

3

Provide Natural Resource Management Program support infrastructure.

4

Make improvements at the landfill that further the District's mission.

5

Improve the user experience at existing recreational areas.

6

Provide resource-based recreational opportunities.

7

Reduce structures with no identified District use.

CULTURAL

1

Recognize significant cultural elements of the preserve.

2

Cultivate awareness and appreciation for native ecosystems and natural resource management efforts at the preserve.

STAKEHOLDER ENGAGEMENT

Phase 1 and 2 Summary

Using a Public Participation Plan created by Stantec and FPDDC Staff, the team conducted 16 public engagement sessions. These sessions included focus group meetings, staff department engagement sessions, public engagement sessions, and two by two interviews with commissioners. The goal was to provide users of the preserves and key stakeholders COVID safe options to provide their input, so many of the sessions were held virtually. In addition to the sessions, a virtual StoryMap detailing the planning process was available to those interested in finding out more, and a survey was open to the public for response. With over 600 survey responses, more than 2,000 StoryMap views, and nearly 200 attendees in the engagement sessions, the project team was able to collect valuable input and important observations about the three preserves. For a more detailed summary of the engagement process, see Discovery and Analysis Report.

Phase 3, 4, and 5 Summary In-Person Engagement

An in person engagement event was held at Greene Valley on June 11, 2022 from 12:30-2:30 pm. Stantec prepared boards with graphics and text showing the proposed improvements to help facilitate the event. About 15 preserve users participated and shared comments for different focus areas using post it notes. In addition, Stantec staff walked around key locations of the preserve to distribute postcards with a QR code that directed

people to the StoryMap. The StoryMap included the conceptual framework plans with a survey.

The top 5 issues users expressed were the following:

- Most respondents want improved pedestrian & vehicular access to north end of preserve and the off leash dog area.
- Additional trail connections to create shortcuts and smaller loops at the southern end, including across the river are desired.
- Users would like better access to the river for hiking, biking, boating, fishing, etc.
- Users would like for the landfill to be open to the public for additional hours, and a paved roadway to the top of the landfill.
- Some users would like to retain Oak Cottage and have further study of potential uses conducted.

Virtual Engagement

A virtual engagement was hosted through Zoom on October 12, 2022. The session provided information to the preserve users and to the public about the Preferred Conceptual Framework Plan. Preserve users and the public indicated their preferences and comments live at the end of the meeting. A survey was also created and posted on the StoryMap to receive comments on the proposed improvements.

Engagement results from this event indicated that users are in support of the Preferred Framework Plan.



Images from the In-Person Engagement on June 11, 2022

GREENE
VALLEY
FOREST
PRESERVE

Framework
Plans

FRAMEWORK PLANS

INTRODUCTION

FRAMEWORK PLANS

Introduction

The Greene Valley Forest Preserve framework plans were created to guide future improvements in the preserve. These plans address preserve improvements generated from stakeholder and staff input. In addition, the plan identifies potential locations for proposed improvements. While the framework plans are conceptual, they provide a long-term vision for FPDDC staff and help inform the implementation plan.

Initial Conceptual Framework Plan Options

Based on the previous analysis and stakeholder engagement discussions (Stage 1 and 2), Stantec worked with District staff to create a list of desired programmatic amenities and improvements for Greene Valley. The refined list helped inform the initial conceptual framework plan options, which indicate the recommended locations of the improvements. Preserve staff and the public then had an opportunity to review and comment on the conceptual framework plans.

Preferred Framework Plan Options

Based on feedback from the framework plan review meeting with District staff and the in-person public engagement session, Stantec completed preferred conceptual framework plans for Greene Valley. These include proposed restoration areas and trail network framework plans. Through a series of refinements, the framework plan reflects the natural, physical and cultural goals.

Proposed Restoration Areas

The restoration framework plan prioritizes habitat areas most critical and in need of restoration. Restoration efforts include removing invasive plants and establishing native plant communities. The goal is to create a diverse habitat to support wildlife, especially those threatened or endangered.

Proposed Trail Network

Proposed Trail Network map includes existing trails, proposed trails, and removed trails. The plan proposes key trail connections enhance connectivity within the preserve. Some of the key trail improvements are connections around Greene Farm Barn, converting Thunderbird Trail from turf to limestone. Additional trail connections reflect the desire of preserve users to have greater access throughout the preserve.

Focus Areas

Conceptual framework plans were created for 5 focus areas and these areas were selected due to high use or high importance to the preserve. The focus area plans include more detailed recommendations like proposed structures, site reconfigurations, other facility improvements, and additional future studies.

These focus areas are the following:

1. Greene Farm Barn, Oak Cottage, Shelters, Off Leash Dog Area
2. Thunderbird Parking, Youth Campground
3. Greene Valley, Scenic Overlook
4. South Lot, Trail Heads
5. East Branch DuPage River, Pond

Detail Area Plans

Following the completion of the Focus Area plans, District staff identified 6 priority sites within the preserve to explore more detailed design. The detail areas include the following:

1. Greene Farm Barn and Oak Cottage
2. Relocated Access Drive and Shelters
3. Expanded Parking at Off-Leash Dog Area
4. South Lot and Trail Heads
5. E 87th Street Trail Entrance and Trail Upgrades
6. Connection from the Woods of Hobson Greene to Greene Valley Forest Preserve

Projects and Recommendations

All restoration areas, trail improvements, and focus areas are split up into projects with more detailed recommendations.

Interpretive Program Recommendations

While many of the existing interpretive signs are relatively new, their graphic panels should be placed on a reasonable replacement schedule to ensure timely topics and materials. Several sign panels are more dated and could be replaced. Additionally, two new locations for interpretive signs were identified on the Greene Valley Main Trail and near the Greene Farm Barn and Oak Cottage to interpret the evolution of the preserve over time and to share information about the history of the Greene Homestead. See the Greene Valley Sign Plan for more detail.



Southeast view of the Greene Farm

FRAMEWORK PLANS

PROPOSED RESTORATION AREAS

RESTORATION RECOMMENDATIONS



Pond Woods



Thunderbird Woods



Hinterlong



County Line Savanna



East Branch DuPage River



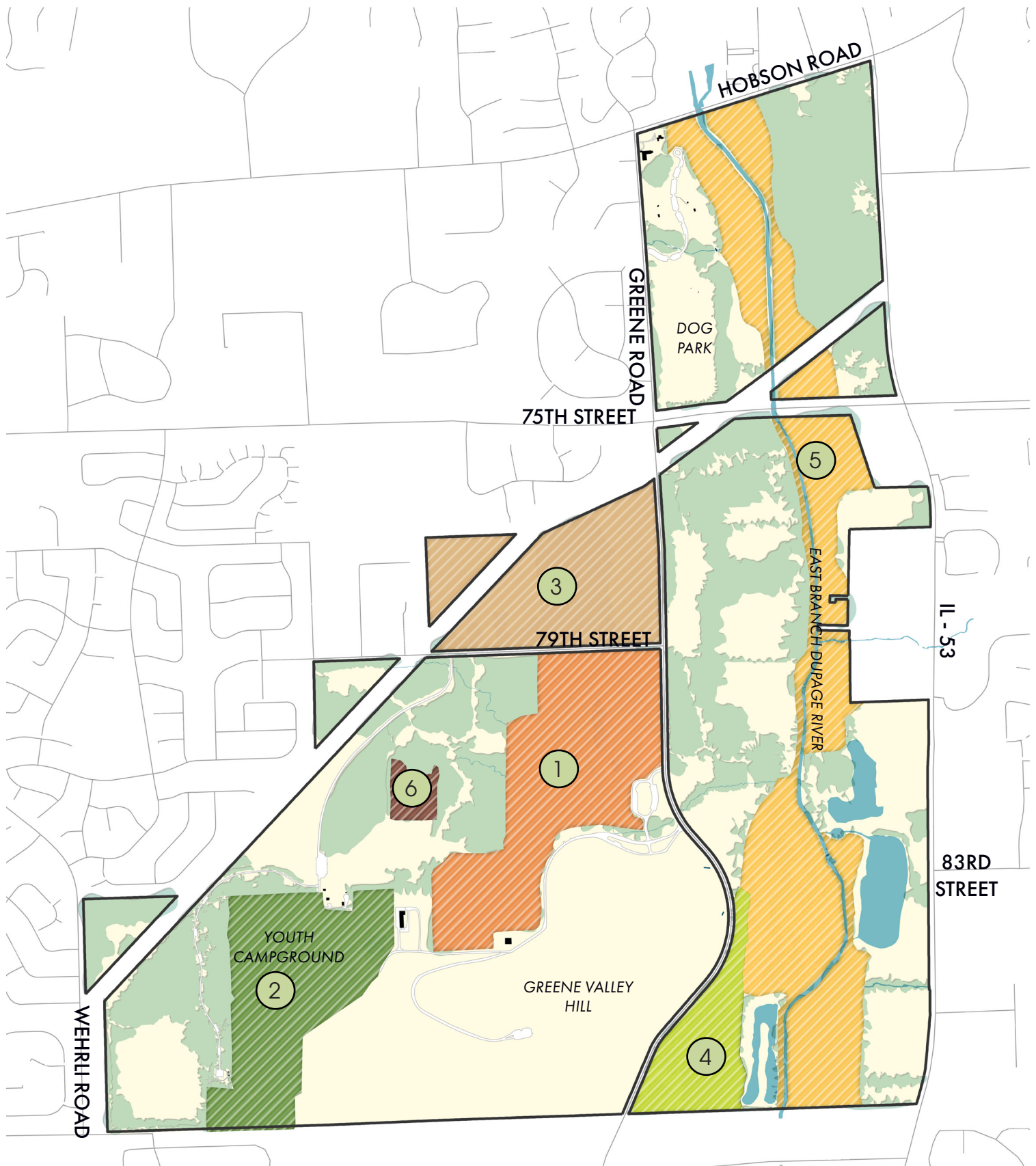
Central Grove

GENERAL RECOMMENDATIONS

***Continue ecological restoration
and identify areas to replace turf
grass with native prairie plants***

LEGEND

-  PRESERVE BOUNDARY
-  SHRUB MEADOW
-  WATER BODY
-  EXISTING BUILDING



0

1/2 mile

NOTE: OVERALL MAP DOES NOT ILLUSTRATE ALL RECOMMENDATIONS.
SEE FOCUS AREAS FOR DETAILED PROPOSED IMPROVEMENTS.

FRAMEWORK PLANS

PROPOSED TRAIL NETWORK

TRAIL PROJECTS AND RECOMMENDATIONS

Greene Farmstead Trail Connection Improvements

- 1 Add trail connection to Greene Farm Barn patio to East Branch DuPage River.

North Parking Lot Entrance Realignment

- 2 Move entrance farther north for better visibility and expand off leash dog area parking lot.

North Shelter Reconfigurations and Improvements

- 3 Remove existing trail from parking lot to the restroom building. Add accessible trail connection from the north parking to restroom. Relocate west shelter east of parking lot, reconfigure paths to shelters for increased accessibility and provide improved restrooms.

Mid-block crossing Relocations and Improvements

- 4 Support residents' efforts to create a connection to a new crosswalk at the intersection of 75th Street and Greene Road. Relocate west shelter east of parking lot, reconfigure paths to shelters for increased accessibility and provide improved restrooms.
- 5 Conduct a traffic study to determine the feasibility of relocating the Greene Road trail crossings to align better with entrances and intersections. Update recommendation based on the results of the study.
- 12 Support any efforts by Dupage County and Lisle Township to study speed control measures on Greene Road.

Improve Thunderbird Trail

- 6 Relocate trail link farther away from the youth campground.
- 7 Resurface trail from turf to limestone.
- 11 Improve access point from E 87th Street and Paxson Drive.

South Lot and Trail Reconfiguration

- 8 Remove excess paving at west side of parking lot and reconfigure trail connectors.
- 10 Remove redundant access drive and convert vehicular access to a limestone trail.

Southern DuPage Regional Trail Realignment at East Branch DuPage River

- 9 As part of the East Branch Dupage River re-meander and restoration project, study a new trail alignment that maintains the location of the existing bridge.

GENERAL RECOMMENDATIONS

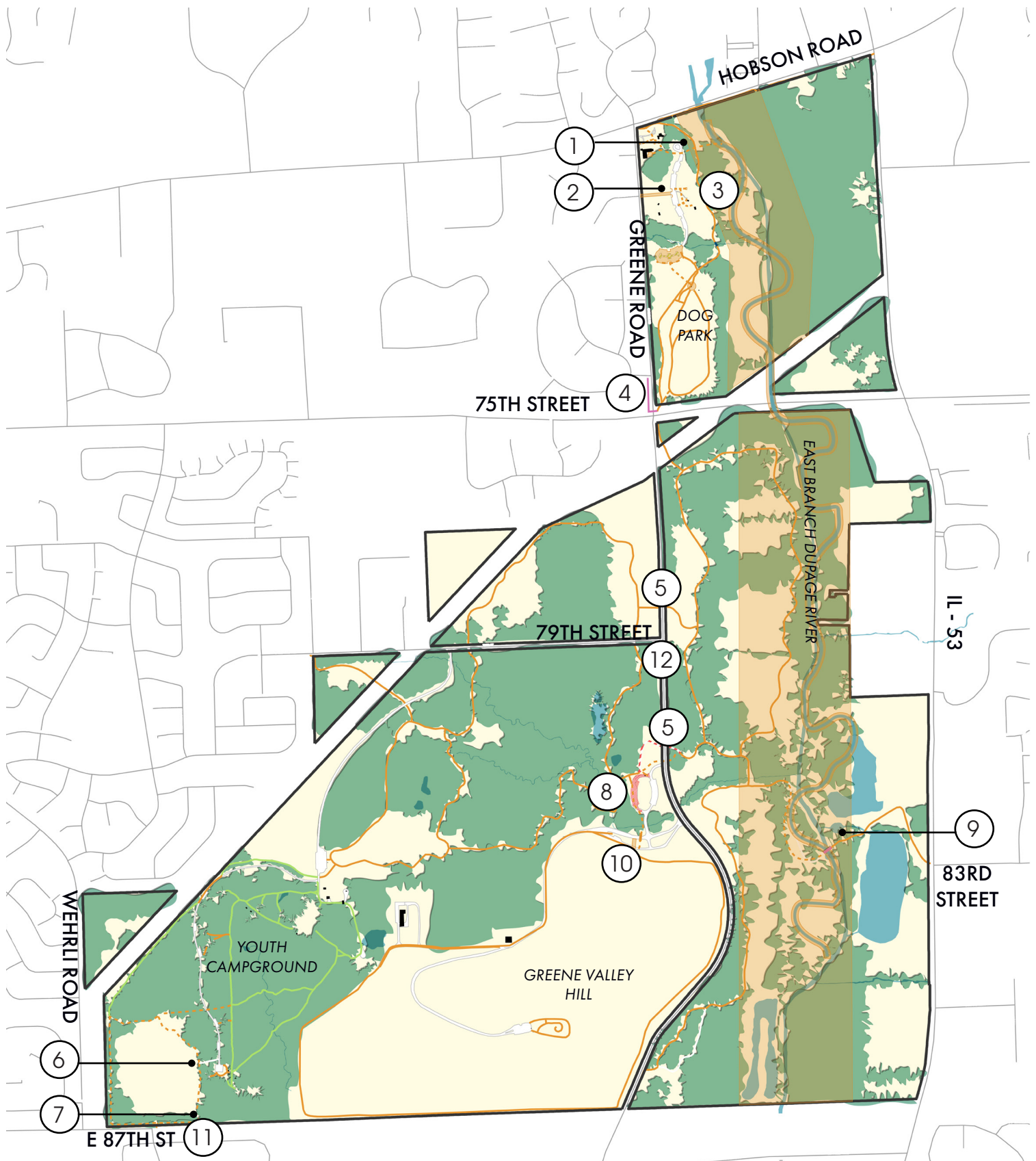
Review access points to maximize safety for all preserve users.

Explore options to increase alternative energy use.

See signage plans for directional, identification, regulatory, and interpretative sign recommendations and proposed locations.

LEGEND

	PRESERVE BOUNDARY		LIMESTONE TRAIL
	SHRUB MEADOW		TURF TRAIL
	WATER BODY		PROPOSED TURF TRAIL
	EXISTING BUILDING		PROPOSED LIMESTONE TRAIL
	PROPOSED IMPROVEMENT		UNMAINTAINED TRAIL
	REMOVAL		PLANNED TRAIL BY OTHERS



0 1/2 mile

NOTE: OVERALL MAP DOES NOT ILLUSTRATE ALL RECOMMENDATIONS.
SEE FOCUS AREAS FOR DETAILED PROPOSED IMPROVEMENTS.

FRAMEWORK PLANS

PROPOSED FRAMEWORK SUMMARY

1 Greene Farm Barn, Oak Cottage, Shelters, Off Leash Dog Area

- Oak Cottage History and Condition Study
- Greene Farm Homestead Trail Connection Improvements
- Greene Farm Barn Outdoor Patio
- Greene Farm Barn Exterior Maintenance
- North Parking Lot Entrance Realignment
- North Parking Lot Flush Restrooms
- North Shelter Reconfigurations and Improvements
- Off Leash Dog Area Parking Lot Expansion
- Off Leash Dog Area Amenity Improvements
- Canoe and Kayak Launch
- Southern Dupage Regional Trail Realignment at East Branch Dupage River

2 Thunderbird Parking, Youth Campground

- Improve Thunderbird Trail
- Thunderbird Parking Lot Reconfiguration

3 Greene Valley, Scenic Overlook

- Natural Resource Management Program Support Building
- Scenic Overlook Temporary Binoculars

4 South Lot, Trail Heads

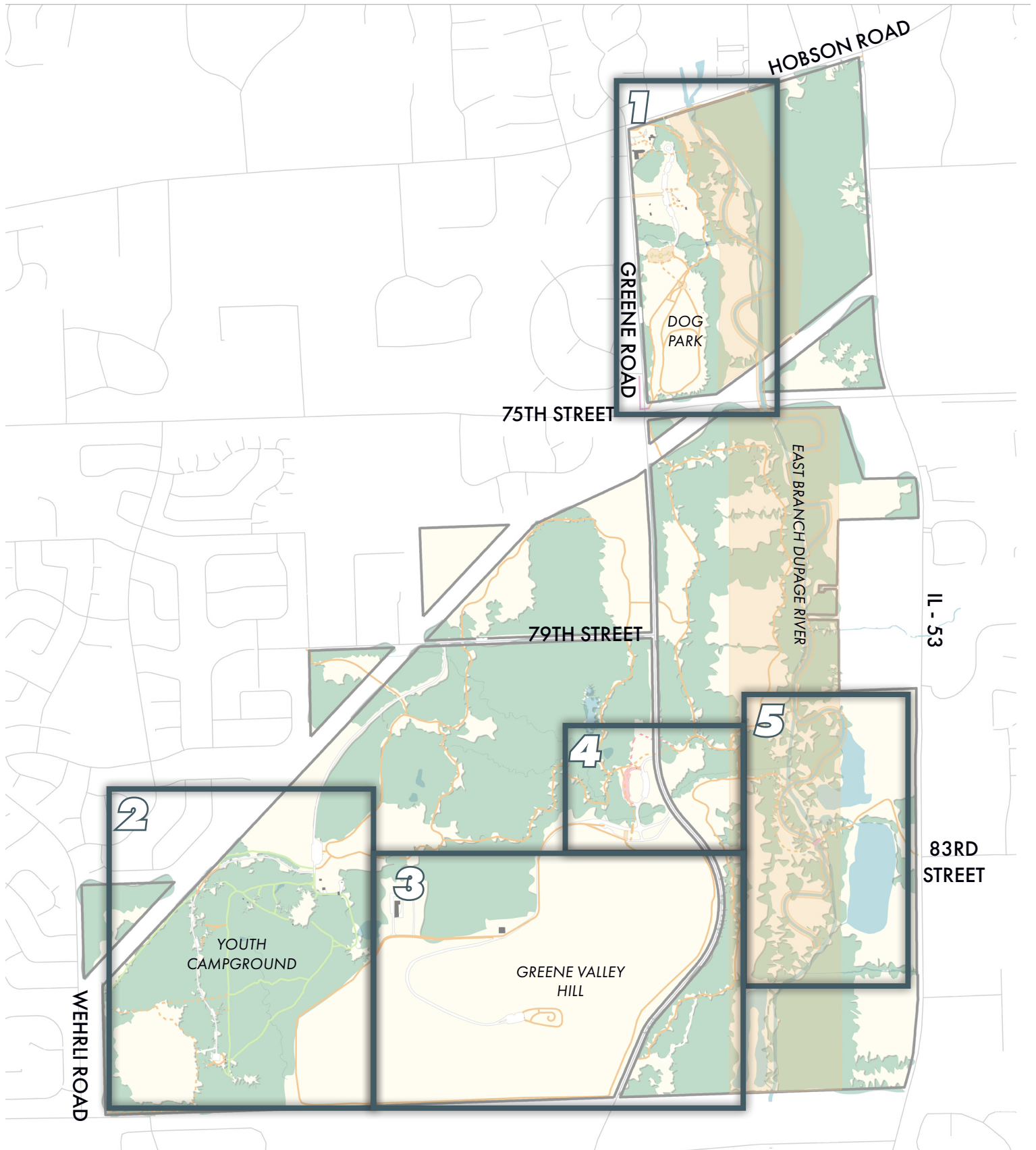
- Remove Redundant Drives
- South Lot Trails and Reconfiguration
- Mid-Block Crossing Relocations and Improvements

5 East Branch DuPage River, Pond

- Southern Dupage Regional Trail Alignment at East Branch Dupage River
- Interpretive Signage Improvements

LEGEND

	PRESERVE BOUNDARY		LIMESTONE TRAIL
	SHRUB MEADOW		
	WATER BODY		
	EXISTING BUILDING		
	PROPOSED IMPROVEMENT		
	REMOVAL		



0



1/2 mile

NOTE: OVERALL MAP DOES NOT ILLUSTRATE ALL RECOMMENDATIONS.
SEE FOCUS AREAS FOR DETAILED PROPOSED IMPROVEMENTS.

FRAMEWORK PLANS

FOCUS AREAS

- 1** Greene Farm Barn, Oak Cottage, Shelters, Off Leash Dog Area



0 400 Feet



PROJECTS AND RECOMMENDATIONS

Oak Cottage

- ① Perform a study on the Oak Cottage to document the structure's history and condition.
- ② Determine a defined time-frame (3 years or less) for a third-party partner to identify a purpose and a means to utilize and maintain the existing Oak Cottage. Issue a request for third-party statements of interest. If a third-party partner does not establish a viable mission-aligned plan for use and maintenance within the defined time-frame, then remove the structure and interpret the history of the Greene Homestead.

Greene Farm Barn Trail Connection Improvements

- ⑭ Add trail connection from north parking lot to Greene Farm Barn.

Greene Farm Barn Outdoor Patio

- ③ Install outdoor patio space southeast of barn and shade pavilion.

Greene Farm Exterior Maintenance

- ④ Preserve the structural integrity of Greene Farm Barn.

North Parking Lot Entrance Realignment

- ⑤ Construct new vehicular entrance.
- ⑥ Close existing entrance and move north for better visibility. Relocate existing license plate reader to new entrance.

North Area Flush Restrooms

- ⑦ Upgrade latrines to flush restroom facilities.

North Shelter Reconfigurations and Improvement

- ⑧ Expand concrete paving around existing pavilion pads.
- ⑮ Reconfigure trails for better accessibility.
- ⑯ Relocate shelter west of parking lot to east side of the parking lot.

Off Leash Dog Area Parking Lot

- ⑨ Expand the parking lot.

Off Leash Dog Area Amenity Improvements

- ⑩ Plant additional trees and add benches in dog area.
- ⑪ Upgrade fencing.

Canoe and Kayak Launch

- ⑫ Provide river access with kayak and canoe launch.

Southern Dupage Regional Trail Realignment at East Branch of Dupage River

- ⑬ Planned East Branch of the DuPage River Restoration Project.*

RESTORATION RECOMMENDATIONS

- ① East Branch DuPage River

**Projects being completed by others.*

LEGEND

	PRESERVE BOUNDARY		PROPOSED IMPROVEMENT		LIMESTONE TRAIL
	SHRUB MEADOW		PLANNED IMPROVEMENT		TURF TRAIL
	WATER BODY		PROPOSED RESTORATION		PROPOSED LIMESTONE TRAIL
	EXISTING BUILDING		REMOVAL		PROPOSED TURF TRAIL
	PROPOSED STRUCTURE		PROPOSED FENCE		PROPOSED TRAIL CONNECTION BY OTHERS

FRAMEWORK PLANS

FOCUS AREAS

2 Thunderbird Parking, Youth Campground



0 600 Feet



PROJECTS AND RECOMMENDATIONS

Improve Thunderbird Trail

- 1 Resurface trail from turf to limestone.
- 2/3 Relocate trail link farther away from youth campground.
- 5 Improve access point from E 87th Street and Paxson Drive.

Thunderbird Parking Lot Reconfiguration

- 4 Reduce horse trailer parking by half, reconfigure parking lot striping and/or lot to accommodate additional passenger vehicle stalls.

RESTORATION RECOMMENDATIONS

- 1 Thunderbird Woods

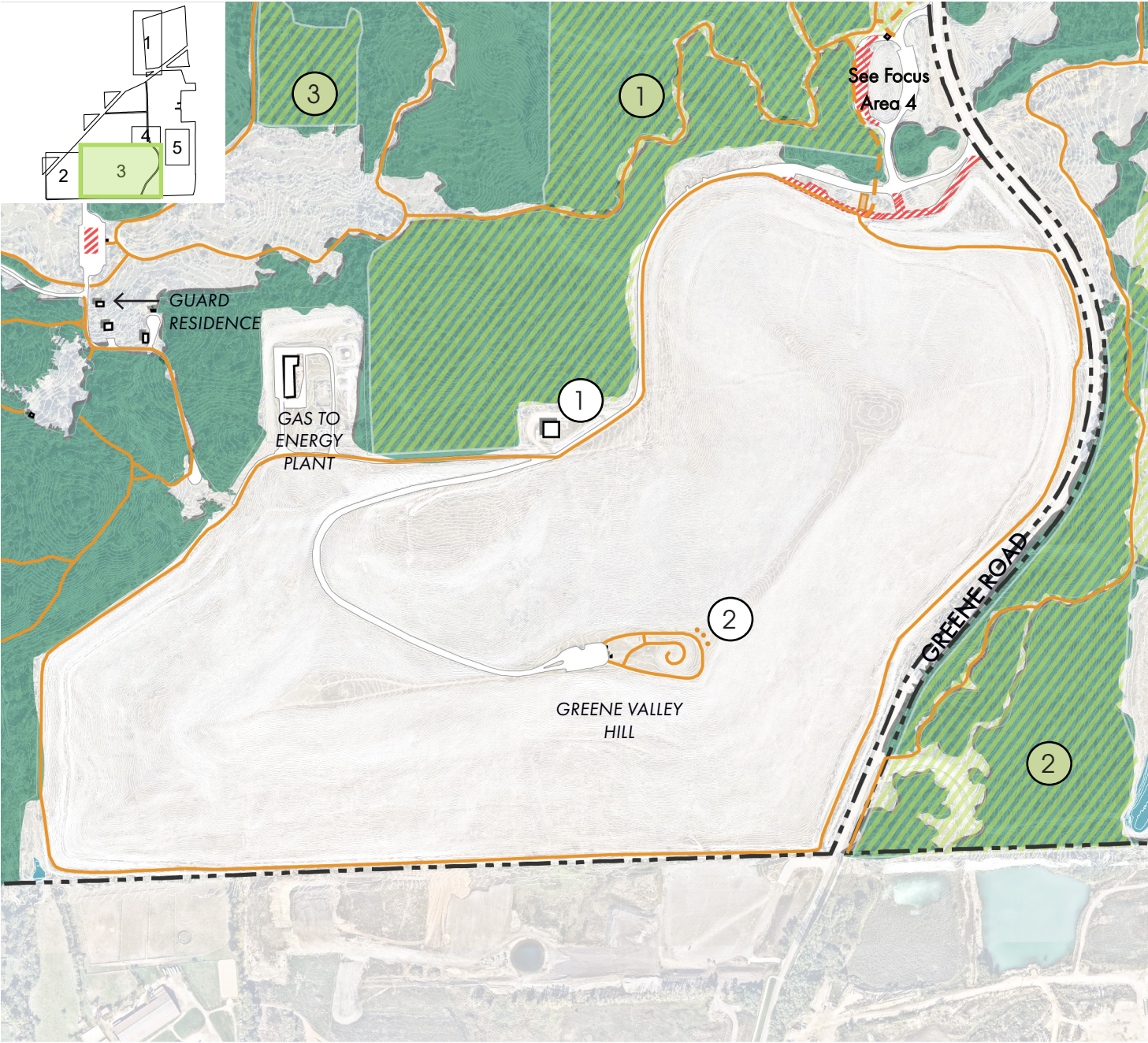
LEGEND

	PRESERVE BOUNDARY		PROPOSED IMPROVEMENT		LIMESTONE TRAIL
	SHRUB MEADOW		PLANNED IMPROVEMENT		TURF TRAIL
	WATER BODY		PROPOSED RESTORATION		PROPOSED LIMESTONE TRAIL
	EXISTING BUILDING		REMOVAL		PROPOSED TURF TRAIL
	PROPOSED STRUCTURE		PROPOSED FENCE		

FRAMEWORK PLANS

FOCUS AREAS

3 Greene Valley Hill, Scenic Overlook



0 700 Feet



PROJECTS AND RECOMMENDATIONS

Natural Resource Management Program Support Building

- 1 Planned Natural Resource Management Support Facility.*

Scenic Overlook Temporary Binoculars

- 2 Install temporary binoculars that face the Chicago Skyline.

*Projects being completed by others.

GENERAL RECOMMENDATIONS

Continue habitat enhancement of landfill cover to support wildlife.

Make improvements to stormwater conveyance at the landfill.

Continue beneficial use of landfill gas to generate energy.

RESTORATION RECOMMENDATIONS

- 1 Pond Woods
- 2 County Line Savanna
- 3 Central Grove

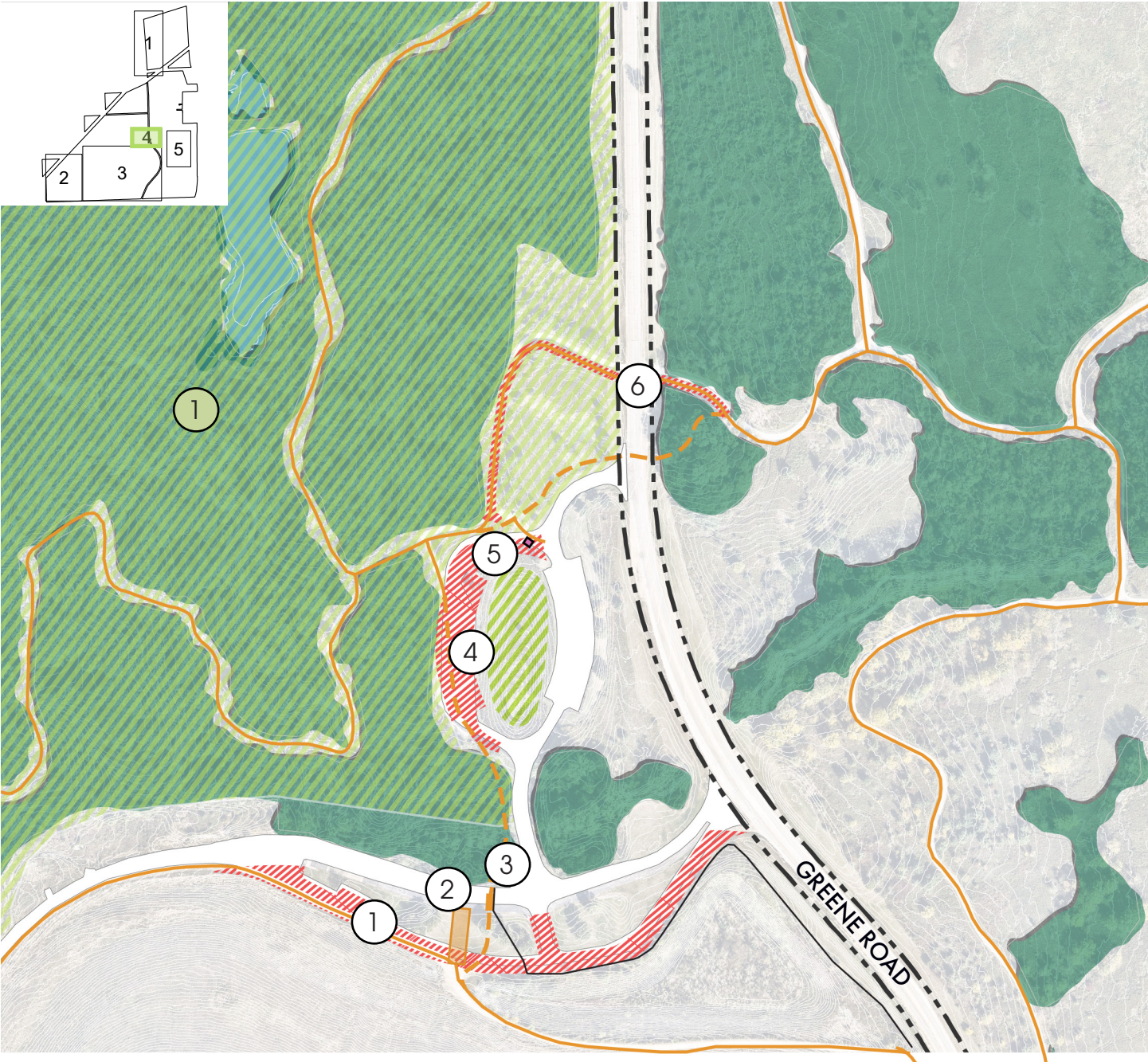
LEGEND

	PRESERVE BOUNDARY		PROPOSED IMPROVEMENT		LIMESTONE TRAIL
	SHRUB MEADOW		PLANNED IMPROVEMENT		TURF TRAIL
	WATER BODY		PROPOSED RESTORATION		PROPOSED LIMESTONE TRAIL
	EXISTING BUILDING		REMOVAL		PROPOSED TURF TRAIL
	PROPOSED STRUCTURE		PROPOSED FENCE		

FRAMEWORK PLANS

FOCUS AREAS

4 South Lot, Trail Heads



0 300 Feet



PROJECTS AND RECOMMENDATIONS

South Lot and Trail Reconfiguration

- 1 Remove redundant access drive and convert vehicular access to a limestone trail.
- 2 Add new maintenance entrance to landfill loop trail.
- 3 Install controlled access gate for landfill and staff only access.
- 4 Remove the excess paving on the west side of the parking lot. Add new trail connection from Hawk trail to White Oak Trail, after the landfill operations are transferred to the District.
- 5 Install trailhead amenities; drinking fountain, seating, trash and recycling, signage, and existing portable restroom.

Mid-Block Crossing Relocations and Improvements

- 6 Conduct a traffic study to determine the feasibility of relocating the Greene Road trail crossing to align better with the existing entrance drive. Update recommendation based on the results of the study. Upgrade and relocate trail crossing beacons.

RESTORATION RECOMMENDATIONS

- 1 Pond Woods

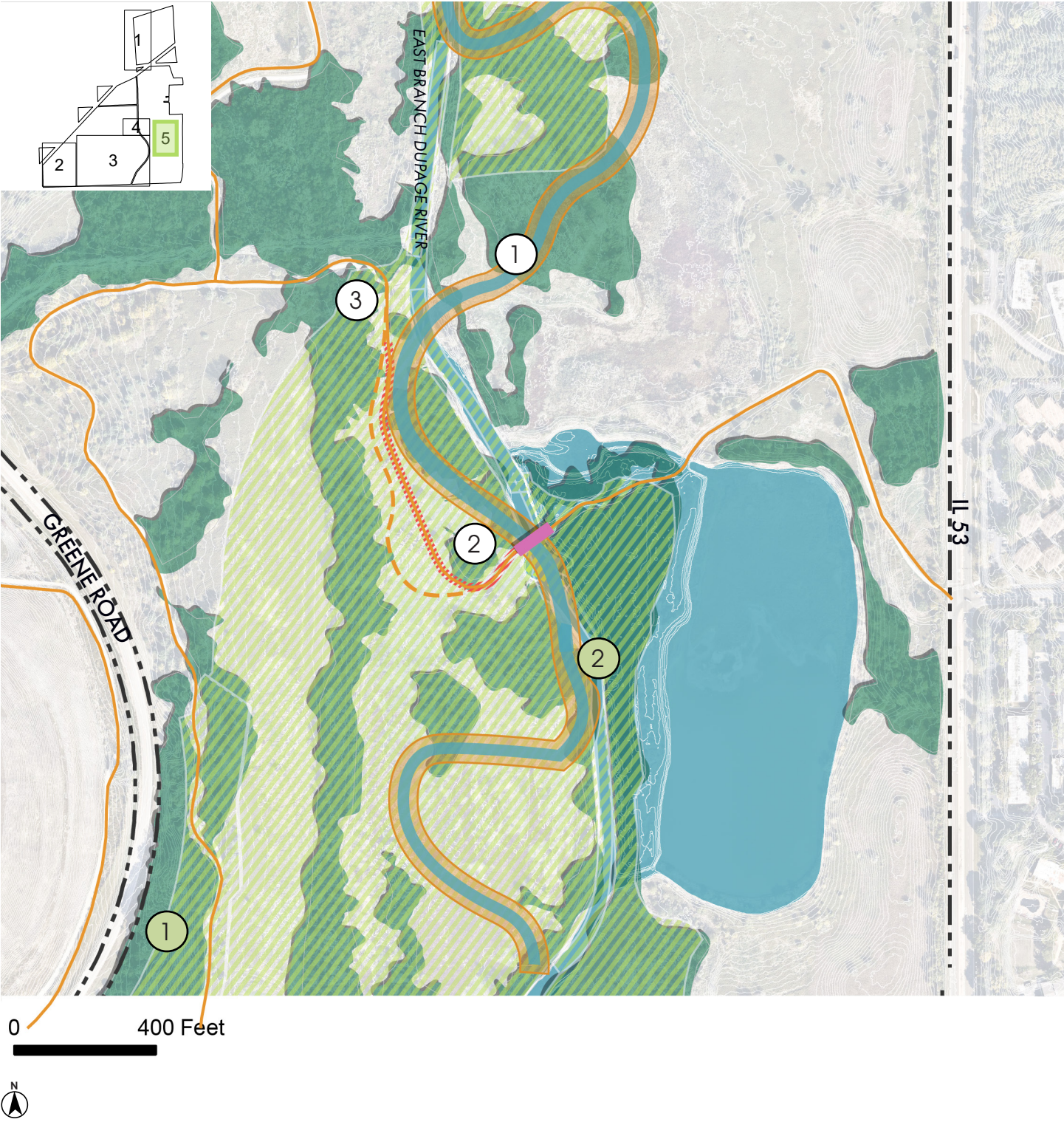
LEGEND

	PRESERVE BOUNDARY		PROPOSED IMPROVEMENT		LIMESTONE TRAIL
	SHRUB MEADOW		PLANNED IMPROVEMENT		TURF TRAIL
	WATER BODY		PROPOSED RESTORATION		PROPOSED LIMESTONE TRAIL
	EXISTING BUILDING		REMOVAL		PROPOSED TURF TRAIL
	PROPOSED STRUCTURE		PROPOSED FENCE		

FRAMEWORK PLANS

FOCUS AREAS

5 East Branch DuPage River, Pond



PROJECTS AND RECOMMENDATIONS

Southern DuPage Regional Trail Realignment at East Branch DuPage River

- 1 Planned East Branch DuPage River re-meander and restoration.*
- 2 As part of the East Branch DuPage River re-meander and restoration project, study a new trail alignment that maintains the location of the existing bridge.

Interpretive Signage Improvements

- 3 Provide interpretive signage for Native American Heritage and stormwater management.

*Projects being completed by others.

RESTORATION RECOMMENDATIONS

- 1 County Line Savanna
- 2 East Branch DuPage River

LEGEND

	PRESERVE BOUNDARY		PROPOSED IMPROVEMENT		LIMESTONE TRAIL
	SHRUB MEADOW		PLANNED IMPROVEMENT		TURF TRAIL
	WATER BODY		PROPOSED RESTORATION		PROPOSED LIMESTONE TRAIL
	EXISTING BUILDING		REMOVAL		PROPOSED TURF TRAIL
	PROPOSED STRUCTURE		PROPOSED FENCE		

GREENE
VALLEY
FOREST
PRESERVE

Detail
Area Plans

FRAMEWORK PLAN

Introduction

Detail Area Plans

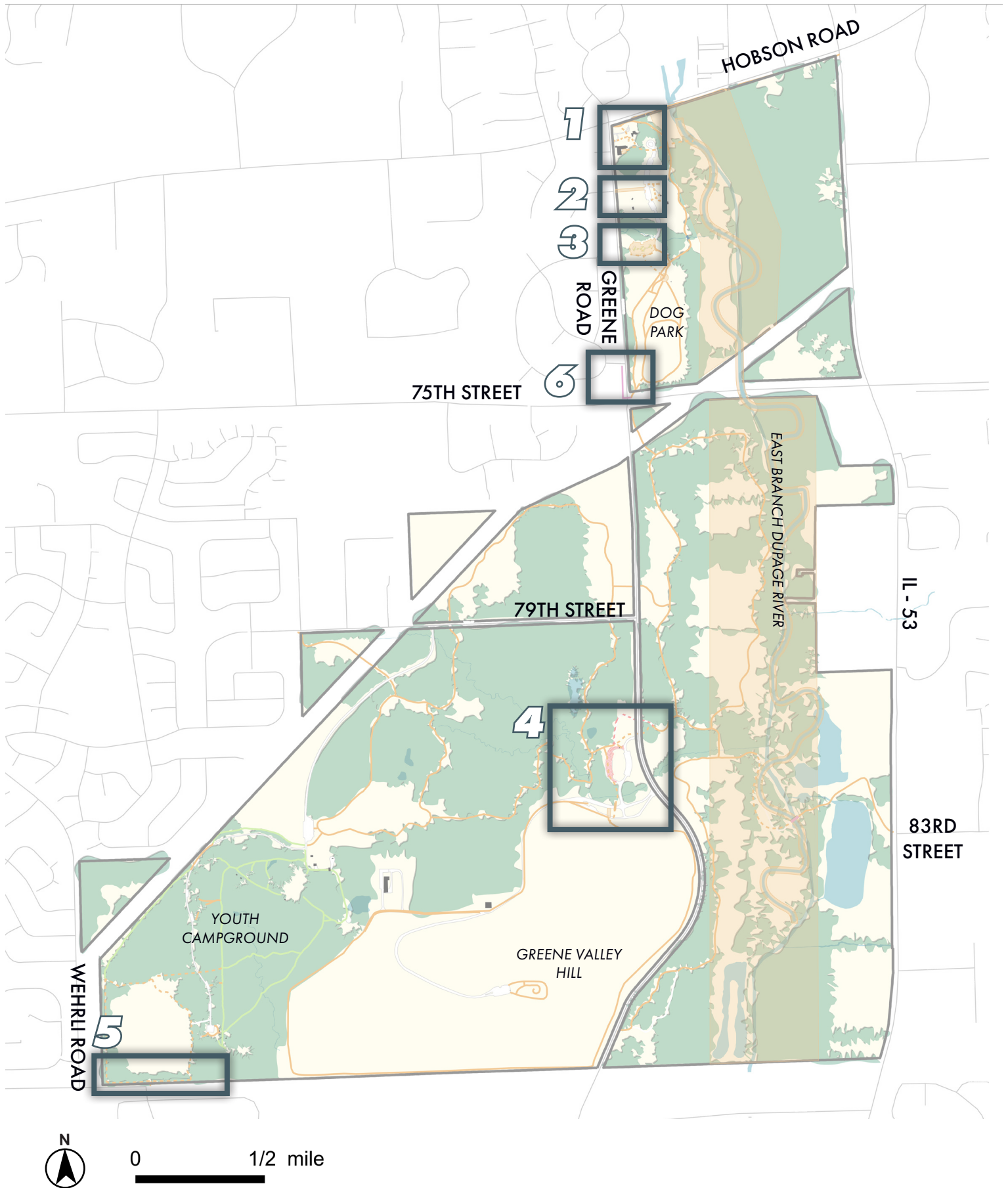
Based on the feedback received from Stage 3, Stantec worked with FPDDC staff to finalize and prioritize the improvement program for Stage 4. The priority project list informed the enlargement areas which show detailed area site plans for Greene Valley. These detailed area plans further detail recommendations identified in the framework plans, providing greater specificity to unique site conditions.

Detail Areas

- 1 Greene Farm Barn and Oak Cottage
- 2 Relocated Access Drive and Shelters
- 3 Expanded Parking at Off-Leash Dog Area
- 4 South Lot and Trail Heads
- 5 E 87th Street Trail Entrance and Trail Upgrades
- 6 Connection from the Woods of Hobson Greene to Greene Valley Forest Preserve

LEGEND

	PRESERVE BOUNDARY		LIMESTONE TRAIL
	SHRUB MEADOW		TURF TRAIL
	WATER BODY		PROPOSED LIMESTONE TRAIL
	EXISTING BUILDING		PROPOSED TRAIL CONNECTION BY OTHERS
	PROPOSED IMPROVEMENT		
	REMOVAL		



DETAIL AREA PLANS

GREENE FARM BARN AND OAK COTTAGE

PROJECTS AND RECOMMENDATIONS

Oak Cottage History and Condition Study

- ① Perform a study on the Oak Cottage to document the structure's history and condition.
- ② Determine a defined timeframe (3 years or less) for a third-party partner to identify a purpose and a means to utilize and maintain the existing Oak Cottage. Issue a request for third-party statements of interest. If a third-party partner does not establish a viable mission-aligned plan for use and maintenance within the defined timeframe, then remove the structure and interpret the history of the Greene Homestead.

Greene Farm Exterior Maintenance

- ③ Preserve the structural integrity of Greene Farm Barn.
- ④ Maintain access drive for maintenance.

Greene Farm Barn Outdoor Patio

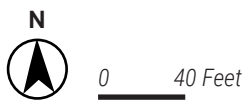
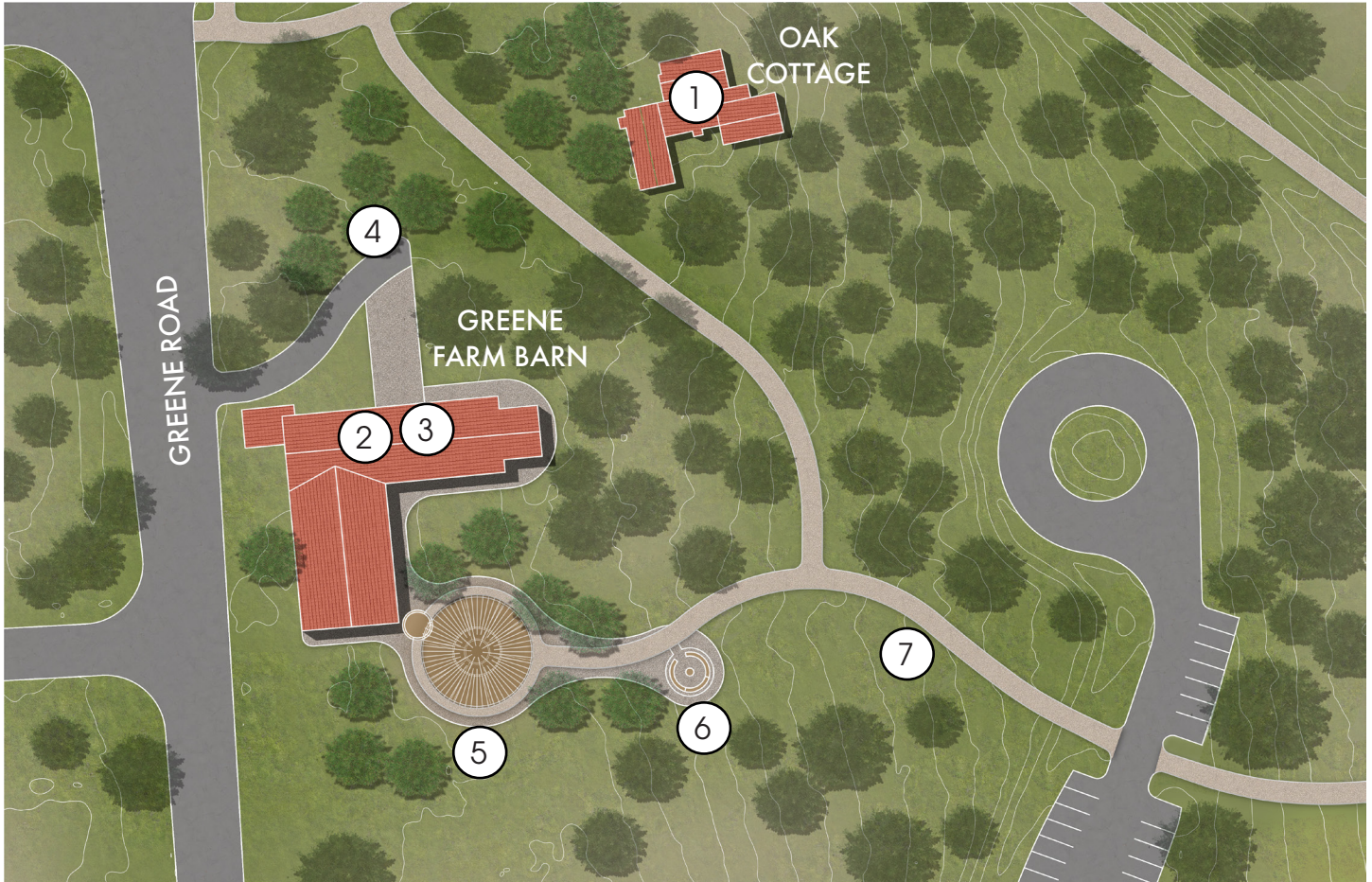
- ⑤ Install outdoor patio with shade structure.
- ⑥ Install fire pit area east of the proposed patio.

Greene Farm Barn Trail Connection Improvements

- ⑦ Add trail connection from East Branch DuPage River Trail.

GENERAL RECOMMENDATIONS

Develop and install interpretive signage that shares information about the history of the Greene Homestead.



Character Images



Outdoor Patio



Fire ring



Native Planting



Limestone Trail

DETAIL AREA PLANS

GREENE FARM BARN AND OAK COTTAGE

Greene Farm Barn

The Greene Farm Barn is a picturesque structure and remnant from DuPage County's agricultural past is located on the northwestern part of the preserve. The surrounding grounds are used for events, but the structure itself is limited as it has no facilities for public use. While the barn interior is not currently suitable for public access, its exterior can serve as an attractive backdrop for gatherings and events.

Outdoor Patio

A proposed outdoor patio space is located southeast of the barn for larger gatherings. The main feature of the patio is a shade structure, seating, and the ornamental plantings that enclose the space. In addition, the design incorporates the existing concrete silo relic near the barn and will be utilized as a seatwall.

Fire Ring

A separate fire ring area is proposed east of the patio to create another small space for people to gather and provides seating for year round use.

Greene Farmstead Trail Connection Improvements

Trail connections are proposed to connect the patio from the north parking lot and the East Branch trail. The trails can also be used for the barn's maintenance access.

Develop and install interpretive signage that share information about the history of the Greene Homestead.

Oak Cottage History and Condition Study

Oak Cottage is a farmhouse built in 1841 by William Greene and is situated in the northwestern part of the preserve. It is recommended that a study of the Oak Cottage be conducted to document it's history and condition.

After the study is completed, a defined timeframe (3 years or less) should be determined for a third-party partner to identify a purpose and a means to utilize and maintain the existing Oak Cottage.

Issue a request for third-party statements of interest.

If a third-party partner does not establish a viable mission-aligned plan for use and maintenance within the defined timeframe, then remove the structure and interpret the history of the Greene Homestead.

Existing Conditions



Existing photo of Greene Farm Barn

Proposed Enhancements



DETAIL AREA PLANS

RELOCATED ACCESS DRIVE AND SHELTERS

PROJECTS AND RECOMMENDATIONS

North Parking Lot Entrance Realignment

- 1 Construct new vehicular entrance and restore existing entrance to prairie.

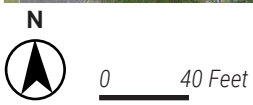
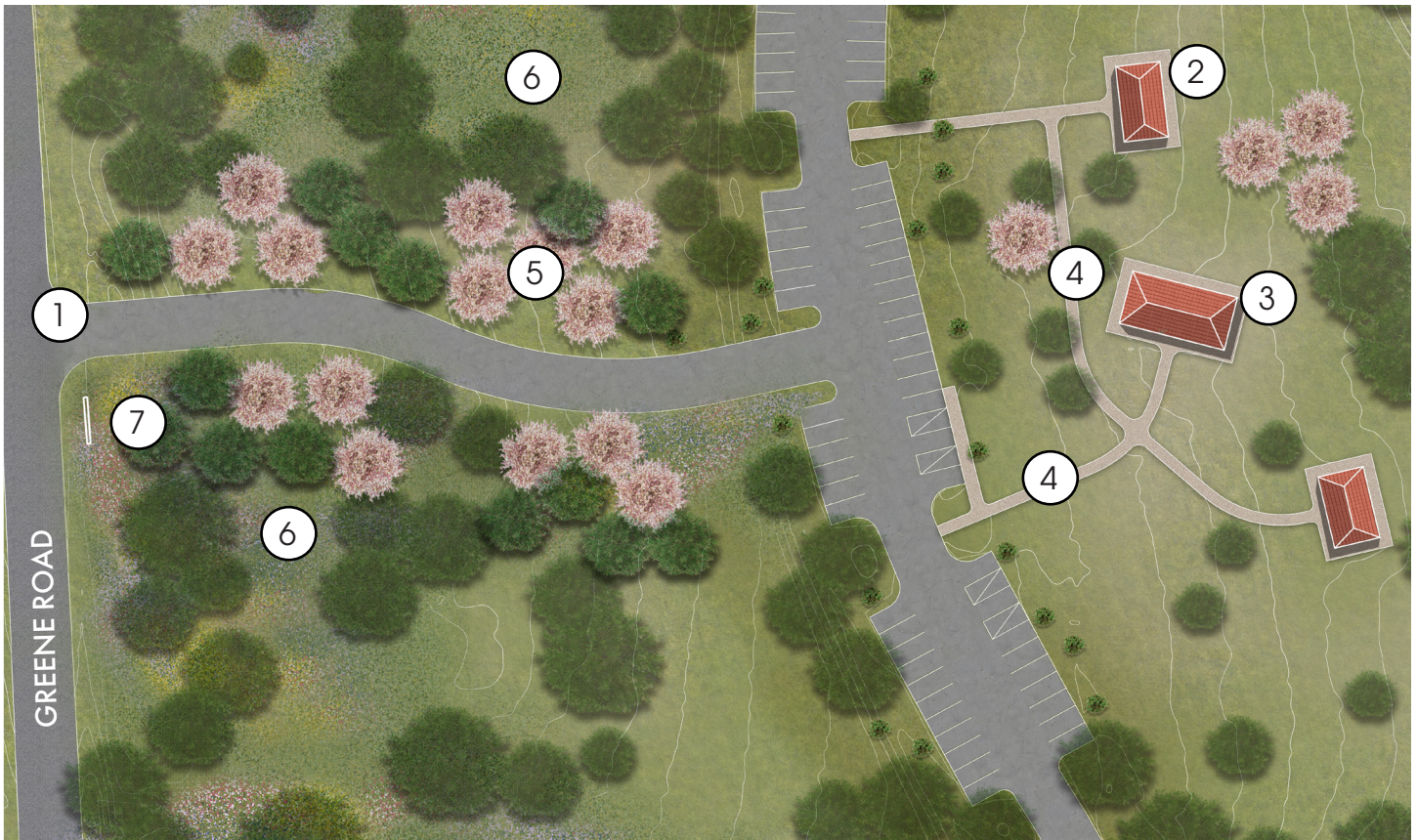
North Shelter Reconfiguration and Improvements

- 2 Remove west picnic shelter and add shelter north of restroom.
- 3 Upgrade latrines to flush restroom facilities.
- 4 Remove existing trail from parking lot to the restroom building. Add accessible trail connection from the north parking lot to restroom.
- 5 Add shade and ornamental trees along entry drive.
- 6 Restore area to prairie.
- 7 Install new title sign (See Signage Plan).

ADA Improvement and Access

The proposed improvements include relocating the west shelter to the east side of the parking lot, eliminating the outdated latrines, providing new restroom facilities and reconfiguring and supplementing trail access to these amenities. The main access point is located south of the entrance drive to allow access during the winter if the north side of the lot is closed to maximize operational efficiencies.

In addition, the new entry drive incorporates a curvilinear alignment for traffic calming as well as shade and ornamental trees.



Character Images



Restroom



Picnic Shelter



Restoration



ADA Trail Access to Shelter and Restroom

DETAIL AREA PLANS

EXPANDED PARKING DRIVE AND SHELTERS

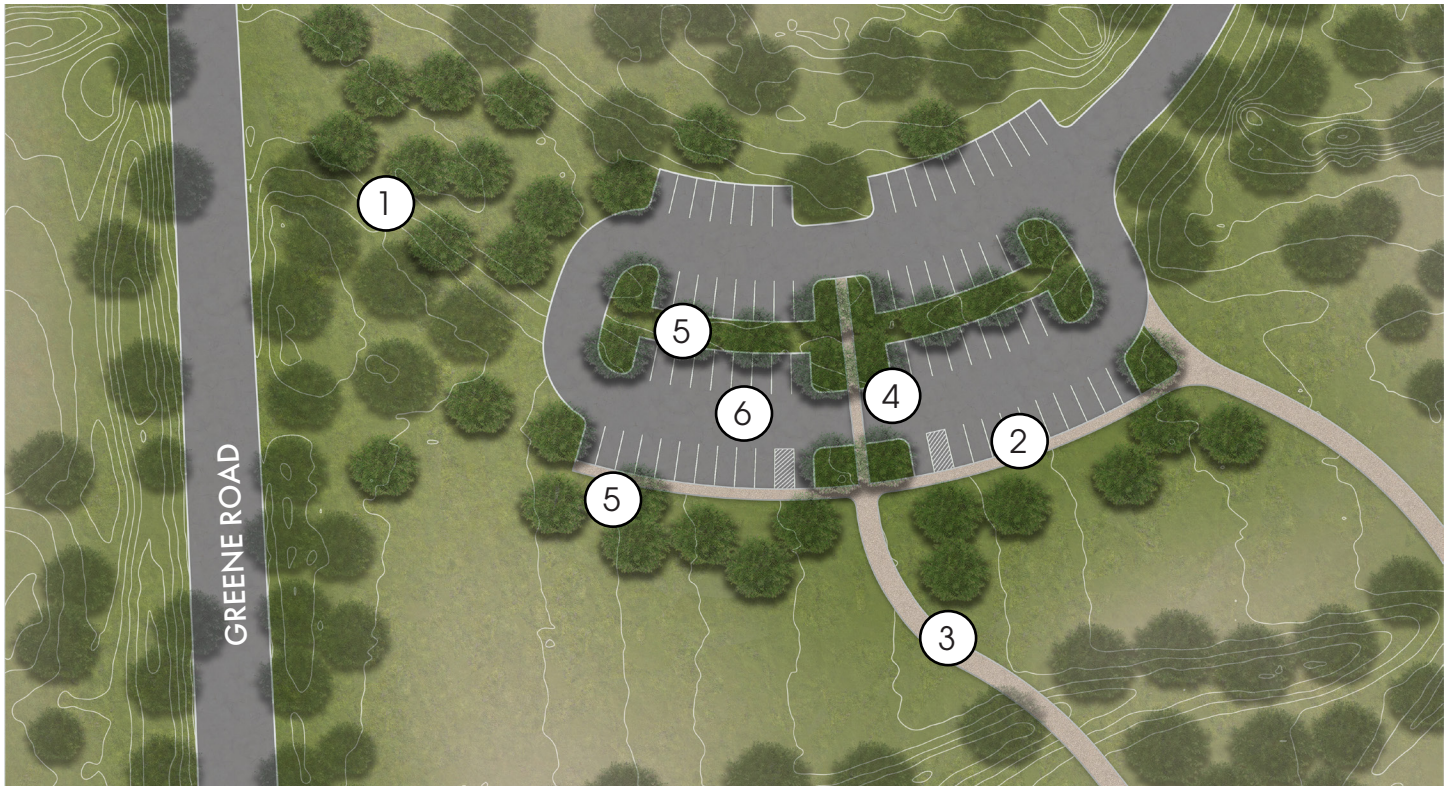
PROJECTS AND RECOMMENDATIONS

Off Leash Dog Area Parking Lot Expansion

- ① Eliminate existing entry drive off Greene Road.
- ② Expand parking lot to increase capacity for the dog park by 15 spaces.
- ③ Realign existing trail access.
- ④ Add new trail connection from parking lot to realigned trail.
- ⑤ Add additional trees and bioswales.
- ⑥ Consider adding permeable paving to parking stalls.

Entry Drive and Parking Lot Adjustments

Relocating the main entrance drive to the north will improve sightlines and help deter motor vehicle crime. Other improvements include the expansion of parking lot capacity and introduction of stormwater best management practices like bioswales.



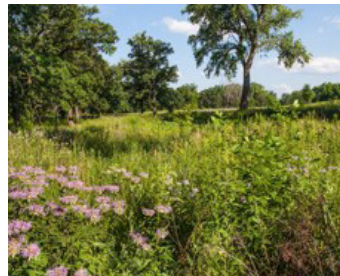
Character Images



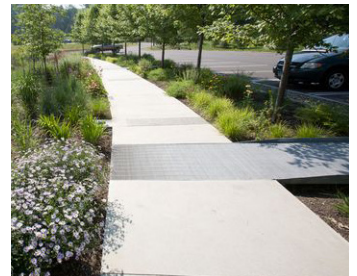
Bioswale



Permeable Paving



Restoration



Trail Through Parking Lot

DETAIL AREA PLANS

SOUTH LOT AND TRAIL HEADS

PROJECTS AND RECOMMENDATIONS

Mid-block Crossing Relocations and Improvements

- 1 Conduct a traffic study to determine the feasibility of relocating the Greene Road trail crossing to align better with the existing entrance drive. Update recommendation based on the results of the study.

South Lot and Trails Reconfiguration

- 2 Remove the excess paving on the west side of the parking lot. Add new trail connection from Hawk Trail to White Oak Trail, after the landfill operations are transferred to the District.
- 3 Install trailhead amenities; drinking fountain, seating, trash and recycling, signage, and existing portable restroom. Install controlled access for landfill operations.
- 4 Convert vehicular access to a limestone trail.
- 5 Add new maintenance entrance to landfill loop trail.



Character Images



Trail



Restoration



Trailhead Amenities



Trailhead Enlargement

- (A) Visitor Information Kiosk, Interpretive Signage, and Drinking Water Fountain
- (B) Porta-potty and Trash Receptacles

DETAIL AREA PLANS

E 87TH STREET TRAIL ENTRANCE AND TRAIL UPGRADES

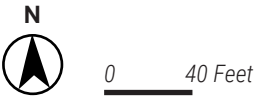
PROJECTS AND RECOMMENDATIONS

Improve Thunderbird Trail

- ① Work with Bolingbrook to improve ADA access ramp.
- ② Work with Bolingbrook to connect existing sidewalk to proposed trail.
- ③ Resurface trail from turf to limestone.
- ④ Potential trail connection by others.

ADA Trail Connection

The Thunderbird Trail is currently turf and will be converted to crushed limestone trail to improve accessibility. To further improve accessibility, it is recommended that the District work with Bolingbrook to connect their sidewalk to the trail.



Character Images



ADA Access Ramp



Limestone Trail



W11-15
Combination Bike and
Pedestrian Traffic
24" square

W11-15a
Trail Crossing
24" square

Trail Access Point Sign



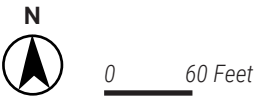
ADA Trail Access

DETAIL AREA PLANS

CONNECTION FROM THE WOODS OF HOBSON GREENE TO GREENE VALLEY FOREST PRESERVE

Woods of Hobson Greene

During the stakeholder engagement process, some of the residents in the 'Woods of Hobson Greene' neighborhood indicated that they would like a safer way to cross Green Road into the preserve. Since Greene Road is controlled by the Township, and it is not a best practice from a traffic engineering standpoint to install a mid-block crossing, the District and the consultant team recommend that the neighborhood association work to make improvements within their property. The recommendation is for the neighborhood association to design and construct a pedestrian pathway at the edge of the detention pond at the NW corner of 75th & Greene to connect Hampton Circle to the new crosswalk over Greene Road. This could be accomplished with minimal grading by slightly extending the banks of the pond and making it slightly deeper to avoid disturbance of the trees along Greene Road.



GREENE
VALLEY
FOREST
PRESERVE

Implementation
Plan

IMPLEMENTATION PLAN



INTRODUCTION

To advance the District's vision at Greene Valley Forest Preserve, the FPDDC must have an action plan in place to guide work plans, budget allocations, infrastructure planning, maintenance and operations.

The project team created framework plans, detailed focus area plans, enlargement area plans, and an Implementation Plan to support the FPDDC Mission and the Vision for the future of Greene Valley.

The plans represent high-level recommendations to guide the preserve development and implementation of various elements over time. Recommendations are nested under three overarching categories, Capital Improvements, Operational and Maintenance Improvements, and Policy Improvements.

Detailed budgeting, additional planning, and funding exploration are highly recommended to support the implementation of the improvement projects proposed in the Master Plan. Grant funding can be an effective way to subsidize improvement projects. The FPDDC may wish to engage design and engineering consultants as needed to assist with some of the large improvements to better expedite the process.

The 2019 Master Plan Identified four goals with a number of objectives. Applicable goals that align with the master plan and provide measurable impact are referenced under the "Impact & Master Plan Alignment Column," the goals are as follows:

- **Goal 1:** Preserve, protect and restore open spaces.
- **Goal 2:** Help people to cultivate a lifelong enthusiasm for nature by offering meaningful, first-rate outdoor recreation and learning experiences.
- **Goal 3:** Improve preserves to increase access, use, efficiency and productivity
- **Goal 4:** Refocus resources by reducing infrastructure and task not related to the mission.
- **Goal 5:** Foster community engagement and increase awareness of the Forest Preserve District.
- **Goal 6:** Use effective and innovative methods to execute the master plan while continuing on sound financial footing.



PHASING

Proposed improvements in the Greene Valley Master Plan are projected to be implemented in phases over the course of many years. Priorities and funding opportunities may shift, providing opportunities for some improvements to move up the priority list and others to

fall further down. It is anticipated that the District will remain flexible, adapting to changes over time in order to implement the elements of the master plan.



CAPITAL IMPROVEMENTS

Proposed improvement projects are listed in geographic order as identified in the Framework Plan. FPDDC should review and update this list annually. Staff should update the list by:

- Removing completed, no longer viable / relevant or desired projects
- Shift the priority order of projects as things change
- Modify projects and/or add new projects as things change and opportunities present themselves.

Most of these projects will follow a 3-phase process that starts with preliminary design / engineering (Phase I), advances to final design engineering (Phase II), and concludes with construction and construction administration (Phase III). Additional site investigations such as site surveying or geotechnical studies are essential for most projects.

Customarily, the cost of Phases I and II design services are approximately 12-20% of the total project construction value, with buildings typically yielding a higher percentage. For more complex projects, project leaders should initiate Phase I consulting services well in

advance of the targeted construction date to accommodate sometimes lengthy outreach, design, engineering, procurement and permitting timelines.

Projects that are publicly-bid typically see the greater number of bidders if in late winter or early spring. Bidding projects within this time frame can provide cost savings, get the projects in the contractor's calendar to begin construction in early spring and allow project competition prior to start of winter.

Construction administration is needed to make sure that the project vision, design intent and construction details are being implemented properly by the contractor. Depending on the scope of project, construction administration can cost approximately 20-30% of the construction value of the project and should be considered when preparing a project budget.



OPERATIONAL AND MAINTENANCE IMPROVEMENTS

Ongoing maintenance is an important factor when it comes to the success of the Master Plan for Greene Valley, and the experience it creates for staff, and visitors. It is recommended that FPDDC continuously strive to identify alternatives to reduce maintenance.

IMPLEMENTATION PLAN

Suggestions for operational improvements include but are not limited to:

- Expand on current maintenance practices for existing facilities and explore high-efficiency options
- Identify opportunities for low-maintenance design in structures and other improvement projects
- Consider volunteers to take on routine maintenance efforts, such as students and parents, master gardeners, Illinois residents looking for community service hours
- Establish after school clubs for curriculum-focused natural area management maintenance
- Create incentives for students, residents, and outside user groups (Scouts, University Extension Programs etc.) that offer maintenance support.
- Continue to work towards removing unnecessary structures from the preserve to reduce maintenance costs.

Staffing

Additional staff to maintain and operate improvements may be warranted. It is recommended that FPDDC consider the addition of positions as maintenance demands increase. There may also be a need for additional seasonal staff to assist with operating preserve programs and rentals at the preserve.



POLICY IMPROVEMENTS

FPDDC should evaluate maintenance and operational policies that could potentially limit the implementation of any of the proposed plan improvements.

The Illinois Department of Natural Resources should be contacted to discuss the feasibility and permitting of proposed improvements along the East Branch of the DuPage River.

Implementation of new facilities and improvements may require new policies be instated.



OTHER PLANNING CONSIDERATIONS

Landfill End Use for Greene Valley Hill

The Greene Valley Landfill operated from 1974 to 1996. During that time, over 40 million cubic yards of refuse was buried in the landfill which occupies approximately 200 acres. The district has entered into operating agreements with Waste Management of Illinois (WM), who has been operating a gas to energy facility at the landfill since 1996. As part of these agreements, WM is responsible for the operation, maintenance, and monitoring of the landfill containment systems until the required post-closure maintenance requirements have been satisfied. The landfill will be eligible for discontinuing

post-closure maintenance in 2028 and it is expected that WM will petition the Illinois EPA to cease post-closure maintenance. If approved by the Illinois EPA, responsibility for the stewardship the landfill will return to the District at that time.

The wastes buried within the landfill will remain there in perpetuity and therefore stewardship of the waste containment systems is the primary goal for end use planning. End use recommendations for the Greene Valley Landfill include:

- Activities at the landfill are currently limited by the operational agreement between the District and WM. Therefore, the current use of the scenic outlook should remain the primary activity atop the landfill.
- The public has requested that visitation hours to the scenic outlook be expanded, and this should be considered once the District assumes stewardship, similar to visitation hours at other closed landfills the District operates, such as Blackwell.
- The landfill vegetated cover should remain a green space.
- The existing vegetation should be maintained to ensure slope stability and minimize erosion.
- No activities should be allowed on the landfill that would impair the protectiveness of the containment systems (vegetated soil cover, stormwater control systems, leachate and landfill gas collection systems).

- Many of the landfill containment systems are aging (50 years old) and may be reaching end of their useful life. Once the District assumes stewardship of those systems, a study to determine if there are opportunities to optimize and replace aging systems should be conducted.

Grounds and Natural Resource Operations Master Plan

In 2022, the District took possession of the former Waste Management maintenance building at the Greene Valley Landfill. The District is currently renovating that building to support various Natural Resource Management Programs. This will allow the dilapidated buildings located south of 91st Street in Waterfall Glen that were re-purposed years ago for a portion of that programming.

Clean Energy, Resiliency and Sustainability

To optimize sustainability and resilience, consider using a biophyllic approach and/or sustainability ratings such as LEED and Sustainable SITES when implementing proposed improvements. The SITES rating system aims to provide “a comprehensive framework for designing, developing and managing sustainable and resilient landscapes and other outdoor spaces” (Sustainable Sites Initiative). Using sustainability rating systems will help the FPDDC help conserve, restore, and create social and economical benefits by establishing thriving ecosystems.

IMPLEMENTATION PLAN

The Clean Energy, Resiliency and Sustainability Plan includes the following opportunities:

- Beneficial use of landfill gas to generate energy or to heat on site buildings like proposed the Natural Resource Program Support Building.
- Continued habitat enhancement of landfill cover to support wildlife.
- Stormwater management improvements at landfill.
- Explore installation of EV charging stations at highly used parking lots.
- Explore the use of ground mounted solar panels at parking lots or currently mowed areas to offset building energy use or to power EV charging stations.
- Turf conversion to natural vegetation to sequester carbon, reduce carbon emissions from mowing and reduce herbicide and fertilizer use.
- Make connections to the trail network to increase the use of active transportation by preserve users.

Other Relevant Planning Studies and Coordination

- Natural Resources Program Support Building.
- Forcemain to DuPage County Wastewater Treatment Facility for leachate disposal and treatment.



PARTNERSHIP & FUNDING

Partnerships and Coordination

In the case of this master planning effort, volunteerism should be viewed as both a unique and valuable partnership between Greene Valley and its surrounding community, as it is a critical support piece for the preserve. Volunteers are vital to deliver Greene Valley's programming, assist with maintenance, and promote community outreach.

The District should also focus on the growth and development of existing partnerships, and together with the others, identify any potential new partnerships. Cost-sharing opportunities should be discussed for any applicable recommendations, along with the implementation of any new programming elements related to the educational components of the plan.

Potential Funding Sources

Funding is a critical piece in the successful implementation of any master plan. In order to complete all of the recommendations in this master plan the FPDDC may need to identify funding sources outside of their annual budget. Grants have become a critical tool for implementation. The District should continue to identify potential eligible federal, state and local grant funding opportunities for projects identified in the master plan including:

- Federal Land and Water Conservation Program
- Federal Transportation Alternatives Set-Aside Program
- Surface Transportation Program (STP)
- Transportation Alternatives Program (TAP)
- Congestion Mitigation and Air Quality Improvement Program (CMAQ)
- Recreational Trails Grants
- Walden Foundation
- Illinois Department of revenue Commerce & Economic Opportunity (DCEO)
- Illinois DNR Natural Areas Stewardship Grant Program
- Illinois DNR Grant Programs
- Recreational Trails Grant (RTP)
- Open Space Lands Acquisition and Development Grant (OSLAD)
- Boat Access Area Development Program (BAAD)
- The Illinois Office of Tourism Grant

Potential Forest Preserve District Funding Sources

Natural Resources:

- General Fund
- Wetland & Riparian Fund
- Environmental Fund
- Landfill Interest Earnings
- Referendum and Non-referendum Bond funds

Capital Improvement/Building Renewal:

- Construction & Development Fund
- Building Renewal Fund
- Landfill Interest Earnings

- Referendum and Non-referendum Bond funds



FINANCING

The board should establish a budget that aligns with the proposed implementation and phasing of the master plan, appropriate to annual expenditures over a 10 to 15-year time horizon. The budget should include the following:

- Maintenance of existing and proposed improvements
- Expanded operations
- Acquisition of adjacent property if opportunity and budget align
- Design, engineering, permitting, and construction of all proposed improvements



NEXT STEPS

Now that the Master Plan is complete, improvements have been identified and prioritized the FPDDC will need to begin to weigh the proposed improvements at Greene Valley against all preserve improvement needs, schedules and budgets.

The FPDDC should select high and medium priority projects that may be eligible to take advantage of state, local and federal funding opportunities and create a timeline for implementation of the proposed improvements based on the FPDDC needs district-wide.

It is recommended that the implementation list be updated at least once per year in order to account for new opportunities and evolving circumstances.

IMPLEMENTATION PLAN

Leaders should remain committed to a systematic and incremental approach to implementation of proposed improvements.

How to Use the Implementation Table

The Implementation Table is organized by geography of the preserve moving from preserve-wide recommendations (General: Restoration Areas, Trail Network and Signage) to the top (5) Focus Areas and finally (5) Detail Plan Areas. At each scale the recommendations become more specific and the plans more detailed.

For each recommendation, the following columns can be found from left to right: **Priority Ranking** (low, medium or high), the **Improvement** (recommendation found in the Framework, Focus Area and Detail Plan Areas), **Project Cost Range** (rough order of magnitude cost estimate for budgeting purposes), **Impact & Master Plan Alignment** (this reflects how the improvement aligns with the goals in the FPFFC 2019 Master Plan) and **Funding & Partnerships**, which provide a list of potential grant funding sources and partnerships that can be explored in the pursuit of implementing the proposed improvements.

IMPLEMENTATION TABLE

GREENE VALLEY IMPLEMENTATION TABLE

Capital Improvements

Priority Ranking	Improvement	Project Cost Range	Impact & Master Plan Alignment	Funding & Partnerships
	GENERAL			
	Restoration Areas			
Medium	Pond Woods	\$300,000	Goals 1-4	Federal Land and Water Conservation Program & Illinois DNR Natural Areas Stewardship Grant Program, General Fund, Wetland & Riparian Fund, Environmental Fund, Landfill Interest Earnings, Referendum and Non-referendum Bond funds, FEMA programs (STORM, Flood Mitigation Assistance, Hazard Mitigation Assistance), and EPA Section 319
Medium	Thunderbird Woods	\$240,000		
Medium	Hinterlong	\$65,000		
Medium	County Line Savanna	\$105,000		
Medium	East Branch DuPage River	\$4,000,000		
Low	Central Grove	\$30,000		
	Trail Network			
Low	Greene Farmstead Trail Connection Improvement	\$67,500 - \$91,500	Goals 2 & 3	Illinois DNR Trails Grant Programs, Construction and Development Fund, Referendum and Non-referendum Bond funds, and Landfill Interest Earnings
	Add trail connection to Greene Farm Barn patio to East Branch DuPage River.			
High	North Parking Lot Entrance Realignment	\$6,500 - \$12,000	Goal 1 & 3-4	Construction and Development Fund, Referendum and Non-referendum Bond funds, Landfill Interest Earnings, and Park and Recreational Facility Construction Act
	Move entrance farther north for better visibility and expand off leash dog area parking lot.			
High	North Shelter Reconfigurations and Improvement	\$407,000 - \$550,500	Goal 3	Illinois DNR Natural Areas Stewardship Grant Program, Construction and Development Fund, Referendum and Non-referendum Bond funds, Landfill Interest Earnings, Building Renewal Fund, and Park and Recreational Facility Construction Act
	Remove existing tail from parking lot to the restroom building. Add accessible trail connection from the north parking to restroom. Relocate west shelter east of parking lot, reconfigure paths to shelters for increased accessibility and provide improved restrooms.			
Medium	Mid-block Crossing Relocations	\$6,500 - \$12,000	Goal 5	Illinois DNR Trails Grant Programs, Construction and Development Fund, Referendum and Non-referendum Bond funds, and Landfill Interest Earnings
	Support residents' efforts to create a connection to a new crosswalk at the intersection of 75th Street and Greene Road. Relocate west shelter east of parking lot, reconfigure paths to shelters for increased accessibility and provide improved restrooms.			
	Conduct a traffic study to determine the feasibility of relocating the Greene Road trail crossings to align better with entrances and intersections. Update recommendation based on the results of the study.			
	Support any efforts by DuPage County and Lisle Township to study speed control measures on Greene Road.			
	Improve Thunderbird Trail	\$272,000 - \$368,000	Goals 2 & 3	Illinois DNR Trails Grant Programs, Construction and Development Fund, Referendum and Non-referendum Bond funds, and Landfill Interest Earnings
	Relocate trail link farther away from youth campground.			
	Resurface trail from turf to limestone.			
	Improve access point from E 87th Street and Paxson Drive.			
	Southern DuPage Regional Trail Realignment At East Branch DuPage River	TBD	Goals 2 & 3	DuPage County and Glen Elly, Construction and Development Fund, Referendum and Non-referendum Bond funds, and Landfill Interest Earnings
	As part of the East Branch Dupage River re-meander and restoration project, study a new trail alignment that maintains the location of the existing bridge.			

IMPLEMENTATION PLAN

IMPLEMENTATION TABLE

Priority Ranking	Improvement	Project Cost Range	Impact & Master Plan Alignment	Funding & Partnerships
	South Lot And Trails Reconfiguration	\$198,000 - \$268,500	Goals 1-3	Illinois DNR Trails Grant Programs, Construction and Development Fund, Referendum and Non-referendum Bond funds, Landfill Interest Earnings, and Park and Recreational Facility Construction Act
	Remove excess paving at west side of parking lot and reconfigure trail connectors.			
	Remove redundant access drive and convert vehicular access to a limestone trail.			
	See signage plans for directional, identification, regulatory and interpretive sign recommendations and proposed locations			
Low	Signage	\$345,500 - \$468,000		
	Relocate secondary title sign to the new entrance drive located at the intersection of Kimberwick Ln and Greene Road.	\$8,500 - \$11,500		
	Main Title sign at the southeast corner of 75th Street and Greene Road.	\$8,500 - \$11,500		
	Remove Greene Barn & Oak Cottage signs as they are no longer warranted due to proposed site modifications.	\$1,500 - \$2,500		
	Relocate existing trail map to proposed location near South parking lot.	\$8,500 - \$11,500		
	Provide trailside maps at trailheads, major trail intersections and destinations as appropriate.	\$34,000 - \$46,000		
	Provide navigation posts at trail intersections.	\$54,000 - \$73,000		
	Update roadway recreation site signage that is outdated.	\$8,500 - \$11,500		
	Update the format of the existing sign "Centennial - Prehistoric Food Preparation".	\$8,500 - \$11,500		
	Relocate existing sign "View from Above" as needed to align with parking lot modifications.	\$8,500 - \$11,500		
	Interpretive Sign at Greene Barn.	\$8,500 - \$11,500		
	Interpretive Sign for Native Plants/ Special Planting Areas.	\$8,500 - \$11,500		
	Provide interpretive signage for Native American Heritage and stormwater management (also included in North Shelter Reconfigurations and Improvements)	\$8,500 - \$11,500		
	New visitor information sign at the trail crossing along 87th Street.	\$8,500 - \$11,500		
	Explore kiosk design with printed sign with QR codes rather than current design with paper flyers.	\$59,500 - \$80,500		
	Relocate signs as necessary to align with new entrance drive proposed in the framework plan.	\$8,500 - \$11,500		
	Relocate off leash dog area signs as necessary, to align with the proposed parking layout.	\$51,000 - \$69,000		
	Remove existing trail crossing signs.	\$1,000 - \$1,500		
	Relocate existing trail crossing signs to new trail intersection location as shown on the map.	\$17,000 - \$23,000		
	Replace and relocate existing trail crossing beacons with push button activated beacon.	\$8,500 - \$11,500		
	Add trail advance warning signs (stop ahead, curve ahead, etc.).	\$8,500 - \$11,500		
	Update regulatory signs that do not conform to District standards.	\$8,500 - \$11,500		
	Add trail etiquette signage - permanent signage at known current/ongoing issues.	\$8,500 - \$11,500		

IMPLEMENTATION TABLE

Priority Ranking	Improvement	Project Cost Range	Impact & Master Plan Alignment	Funding & Partnerships
	FOCUS AREA			
	Focus Area 1: Greene Farm Barn, Oak Cottage, Shelters, Off Leash Dog Area			
High	Oak Cottage History And Condition Study	\$40,000 - \$100,000	Goals 2-3 & 5	Construction and Development Fund, Referendum and Non-referendum Bond funds, Landfill Interest Earnings, and Park and Recreational Facility Construction Act
	<i>Perform a study on the Oak Cottage to document the structure's history and condition.</i>			
	<i>Determine a defined time-frame (3 years or less) for a third-party partner to identify a purpose and a means to utilize and maintain the existing Oak Cottage. Issue a request for third-party statements of interest. If a third-party partner does not establish a viable mission-aligned plan for use and maintenance within the defined time-frame, then remove the structure and interpret the history of the Greene Homestead.</i>			
Low	Greene Farmstead Trail Connection Improvement	See Trail Network - Greene Farmstead Trail Connection Improvement		
	<i>Add trail connection from north parking lot to Greene Farm Barn.</i>			
Low	Greene Farm Barn Outdoor Patio	\$202,500 - \$273,500	Goals 2 & 3	Construction and Development Fund, Referendum and Non-referendum Bond funds, Landfill Interest Earnings, and Park and Recreational Facility Construction Act
	<i>Install outdoor patio space southeast of barn and shade pavilion.</i>			
High	Greene Farm Barn Exterior Maintenance	Varies - ongoing	Goal 3	Construction and Development Fund, Referendum and Non-referendum Bond funds, Landfill Interest Earnings, Building Renewal Fund, and Park and Recreational Facility Construction Act
	<i>Preserve the structural integrity of Greene Farm Barn.</i>			
High	North Parking Lot Entrance Realignment	See Trail Network - North Parking Lot Entrance Realignment		
	<i>Construct new vehicular entrance.</i>			
	<i>Close existing entrance and move north for better visibility. Relocate existing license plate reader to new entrance.</i>			
High	North Area Flush Restrooms	\$202,500 - \$273,500	Goal 3	Illinois DNR Natural Areas Stewardship Grant Program, Construction and Development Fund, Referendum and Non-referendum Bond funds, Landfill Interest Earnings, Building Renewal Fund, and Park and Recreational Facility Construction Act
	<i>Upgrade latrines to flush restroom facilities.</i>			
High	North Shelter Reconfigurations and Improvement	See Trail Network - North Shelter Reconfigurations and Improvement		
	<i>Expand concrete paving around existing pavilion pads.</i>			
	<i>Reconfigure trails for better accessibility.</i>			
	<i>Relocate shelter west of parking lot to east side of the parking lot.</i>			

IMPLEMENTATION PLAN

IMPLEMENTATION TABLE

Priority Ranking	Improvement	Project Cost Range	Impact & Master Plan Alignment	Funding & Partnerships
Medium	Off Leash Dog Area Parking Lot Expansion <i>Expand the parking lot.</i>	\$574,500 - \$757,500	Goals 1-3	
Low	Off Leash Dog Area Amenity Improvements <i>Plant additional trees and add benches in dog area.</i> <i>Upgrade fencing.</i>	\$360,500 - \$488,000	Goals 1-3	Illinois DNR Natural Areas Stewardship Grant Program, Construction and Development Fund, Referendum and Non-referendum Bond funds, Landfill Interest Earnings, and Park and Recreational Facility Construction Act
Low	Canoe and Kayak Launch <i>Provide river access with kayak and canoe launch.</i>	\$84,500 - \$114,500	Goals 1-3	Illinois DNR Natural Areas Stewardship Grant Program & Federal Land and Water Conservation Program, Construction and Development Fund, Referendum and Non-referendum Bond funds, Landfill Interest Earnings, Boat Access Area Development Program and Park and Recreational Facility Construction Act
Low	Southern DuPage Regional Trail Realignment at East Branch DuPage River <i>Planned East Branch of the DuPage River Restoration Project.</i>	See Trail Network - Southern DuPage Regional Trail Realignment at East Branch DuPage River		
	Focus Area 2: Thunderbird Parking, Youth Campground			
Low	Improve Thunderbird Trail <i>Resurface trail from turf to limestone.</i> <i>Relocate trail link farther away from youth campground.</i> <i>Improve access point from E 87th Street and Paxson Drive.</i>	See Trail Network - Improve Thunderbird Trail		
Low	Thunderbird Parking Lot Reconfiguration <i>Reduce horse trailer parking by half, reconfigure parking lot striping and/or lot to accommodate additional passenger vehicle stalls.</i>	\$100,500 - \$136,000	Goal 4	
	Focus Area 3: Greene Valley, Scenic Overlook			
High	Natural Resource Management Program Support Building <i>Planned Natural Resource Management Support Facility.</i>	\$1,300,000	Goal 2 & 3	Illinois DNR Natural Areas Stewardship Grant Program & Federal Land and Water Conservation Program, Construction and Development Fund, Referendum and Non-referendum Bond funds, Landfill Interest Earnings, Building Renewal Fund, and Park and Recreational Facility Construction Act
Low	Scenic Overlook Temporary Binoculars <i>Install temporary binoculars that faces the Chicago Skyline.</i>	\$51,000 - \$69,000	Goal 2	Illinois DNR Natural Areas Stewardship Grant Program & Federal Land and Water Conservation Program, Construction and Development Fund, Referendum and Non-referendum Bond funds, and Landfill Interest Earnings

IMPLEMENTATION TABLE

Priority Ranking	Improvement	Project Cost Range	Impact & Master Plan Alignment	Funding & Partnerships
	Focus Area 4: South Lot, Trail Heads			
Low	South Lot And Trails Reconfiguration	See Trail Network - South Lot And Trails Reconfiguration		
	Remove redundant access drive and convert vehicular access to a limestone trail.			
	Add new maintenance entrance to landfill loop trail.			
	Install controlled access gate for landfill and staff only access.			
	Remove the excess paving on the west side of the parking lot. Add new trail connection from Hawk trail to White Oak Trail, after the landfill operations are transferred to the District.			
	Install trailhead amenities; drinking fountain, seating, and trash and recycling.			
Medium	Mid-block Crossing Relocations	See Trail Network - Mid-block Crossing Relocations		
	Conduct a traffic study to determine the feasibility of relocating the Greene Road trail crossing to align better with the existing entrance drive. Update recommendation based on the results of the study. Upgrade and relocate trail crossing beacons.			
	Focus Area 5: East Branch DuPage River, Pond			
Low	Southern DuPage Regional Trail Realignment At East Branch DuPage River	See Trail Network - Southern DuPage Regional Trail Realignment At East Branch DuPage River		
	Planned East Branch DuPage River remeander and restoration.			
	As part of the East Branch DuPage River re-meander and restoration project, study a new trail alignment that maintains the location of the existing bridge.			
	Interpretive Signage Improvements	See Signage Plan		
	Provide interpretive signage for Native American Heritage and stormwater management.			
	DETAIL AREA PLANS			
	Greene Farm Barn & Oak Cottage			
	Oak Cottage History and Condition Study	See Focus Area 1 - Oak Cottage History and Condition Study		
	Perform a study on the Oak Cottage to document the structure's history and condition.			
	Determine a defined timeframe (3 years or less) for a third-party partner to identify a purpose and a means to utilize and maintain the existing Oak Cottage. Issue a request for third-party statements of interest. If a third-party partner does not establish a viable mission-aligned plan for use and maintenance within the defined timeframe, then remove the structure and interpret the history of the Greene Homestead.			
	Greene Farm Barn Outdoor Patio	See Focus Area 1 - Greene Farm Barn Outdoor Patio		
	Install outdoor patio with shade structure.			
	Install fire pit area east of the proposed patio.			
	Greene Farm Barn Exterior Maintenance	See Focus Area 1 - Greene Farm Barn Exterior Maintenance		
	Preserve the structural integrity of Greene Farm Barn.			
	Maintain access drive for maintenance.			
	Greene Farmstead Trail Connection Improvement	See Trail Network - Greene Farmstead Trail Connection Improvement		
	Add trail connection from East Branch DuPage River Trail.			

IMPLEMENTATION PLAN

IMPLEMENTATION TABLE

Priority Ranking	Improvement	Project Cost Range	Impact & Master Plan Alignment	Funding & Partnerships
	Relocate Access Drive & Shelters			
	North Parking Lot Entrance Realignment			See Focus Area 1 - North Parking Lot Entrance Realignment
	Construct new vehicular entrance and restore existing entrance to prairie.			
	North Shelter Reconfigurations And Improvement			See Focus Area 1 - North Shelter Reconfigurations And Improvement
	Remove west picnic shelter and add shelter north of restroom.			
	Upgrade latrines to flush restroom facilities.			
	Remove existing trail from parking lot to the restroom building. Add accessible trail connection from the north parking lot to restroom.			
	Add shade and ornamental trees along entry drive.			
	Restore area to prairie.			
	Install Main Title sign at the new entrance drive located at the intersection of Kimberwick Lane and Greene Road. (also included in Signage)			
	Expanded Parking at Off Leash Dog Area			
	Off Leash Dog Area Parking Lot Expansion			See Focus Area 1 - Off Leash Dog Area Parking Lot Expansion
	Eliminate existing entry drive off Greene Road.			
	Expand parking lot to increase capacity for the dog park by 15 spaces.			
	Realign existing trail access.			
	Add new trail connection from parking lot to realigned trail.			
	Add additional trees and bioswales.			
	South Lot, Trail Heads			
Medium	Mid-block Crossing Relocations			See Trail Network - Mid-block Crossing Relocations
	Conduct a traffic study to determine the feasibility of relocating the Greene Road trail crossing to align better with the existing entrance drive. Update recommendation based on the results of the study.			
	South Lot And Trails Reconfiguration (includes trail network costs)			See Focus Area 4 - South Lot And Trails Reconfiguration (includes trail network costs)
	Remove the excess paving on the west side of the parking lot. Add new trail connection from Hawk Trail to White Oak Trail, after the landfill operations are transferred to the District.			
	Install trailhead amenities; drinking fountain, seating, trash and recycling, signage, and existing portable restroom. Install controlled access for landfill operations.			
	Convert vehicular access to a limestone trail.			
	Add new maintenance entrance to landfill loop trail.			
	E 87 St Trail Entrance and Trail Upgrades			
	Improve Thunderbird Trail			See Trail Network - Improve Thunderbird Trail
	Work with Bolingbrook to improve ADA access ramp.			
	Work with Bolingbrook to connect existing sidewalk to proposed trail.			
	Resurface trail from turf to limestone.			
	Potential trail connection by others.			

*Assumptions

Cost estimates are for budgetary use only.

Cost estimates were prepared late 2022/early 2023 and do not account for future inflation.

Cost estimates were prepared using 2022 bid tabs from similar Midwest projects.

Costs estimates include construction costs, design and engineering and construction administration.

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