

Thank you for attending Detweiler Park Master Plan, Public Meeting #3.

The live presentation will start promptly at 7:00 PM. Please note this presentation is being recorded.

During the presentation feel free to type questions in the Q&A box. We will answer question during the Q&A portion of the presentation.

If you are listening by phone we ask that you keep your phone muted – we will provide instructions on how to ask questions during the Q&A session.



Detweiler Park Master Plan

PUBLIC MEETING #3

DRAFT PLAN PRESENTATION

9.21.2020

MEETING AGENDA

- Welcome
- Project Background
- Forestry Stewardship Plan
- Ecological Site Assessment
- Building Assessment
- Draft Plan Concept
- Questions & Comments
- Next Steps



Detweiler Park Master Plan

PROJECT CLIENT

County Commissioners:

- Jeff Haste
- Mike Pries
- George P. Hartwick, III



DAUPHIN COUNTY
PENNSYLVANIA
PARKS & RECREATION

For Project Updates please visit the County Website:
<http://www.detweilerpark.org>

Detweiler Park Master Plan

STEERING COMMITTEE MEMBERS

Member	Organization
Sally Zaino	Manada Conservancy Representative
Julie Seeds	Middle Paxton Township Municipal
Joe Sherrick	E. J. Stackpole Memorial Fish Nursery
Eric Naguski	Conservation District Representative
Deb Everly	Planning Commission Representative
Chris Rebert	Naturalist
Amy Young	Community Recreation Advocate
Paula Zankel	Neighboring Property Owner
Justin Goa	High School Student
Justin Warren	School Board Member
Josh First	Hunting Community
Gregg Cook	Tourism Representative
Andy Brought	Forester, DCNR
George Connor	Economic Development Director
Carl Dickson	Director, Dauphin Co. Parks and Recreation



Detweiler Park Master Plan

PROJECT TEAM

Simone Collins Landscape Architecture

- Peter Simone, RLA, FASLA, psimone@simonecollins.com
- Sarah Leeper, RLA, ASLA, sleeper@simonecollins.com
- Rob Gladfelter, ASLA, rgladfelter@simonecollins.com

Applied Ecological Services

- Michael McGraw, michael.mcgraw@appliedeco.com
Wildlife Biologist
- Jessie S. Buckner, Ecologist

Comprehensive Land Services

- Patrick Fasano, Forester

Seiler + Drury Architecture

- Doug Seiler, Architect

Patrick Stasio

- Certified Recreational & Park Professional



Detweiler Park Master Plan

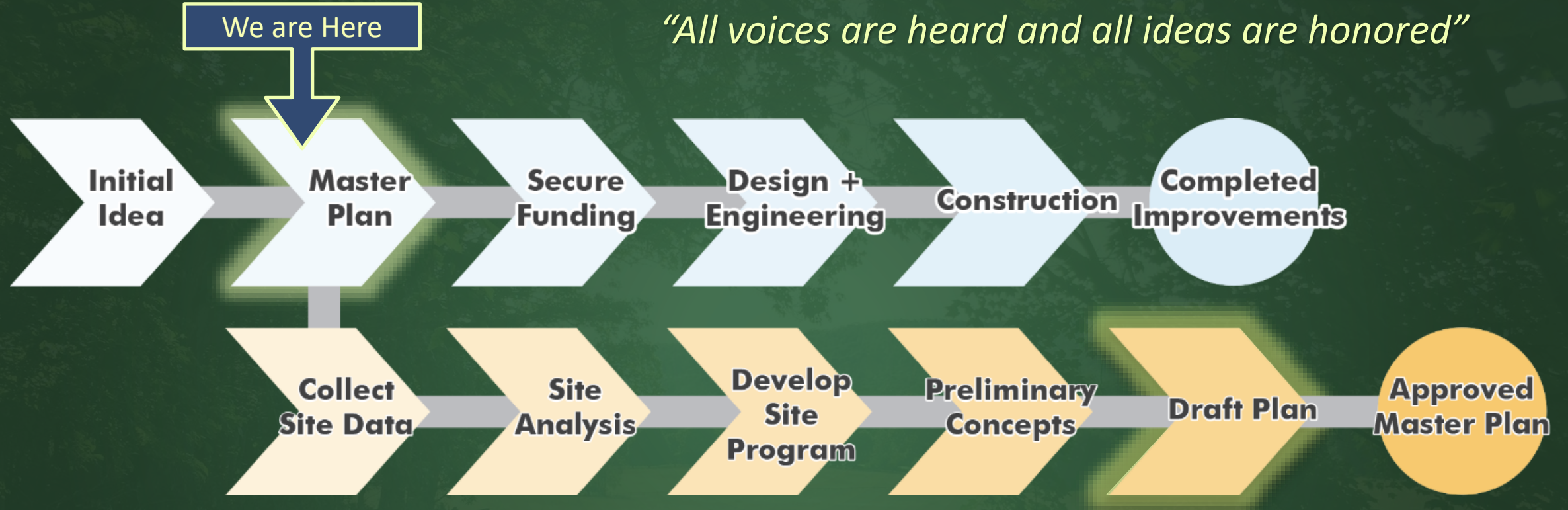
PROJECT SCHEDULE

Meeting	Purpose	Date
Committee Meeting 1	Kickoff Meeting / Brain Storming	Dec. 9, 2019
Public Meeting 1	Project Background/Brain Storming	Feb. 3, 2020
Committee Meeting 2	Review Public Meeting/Process Analysis	Feb. 17, 2020
Committee Meeting 3	Process Analysis/Initial Concepts	March 9, 2020
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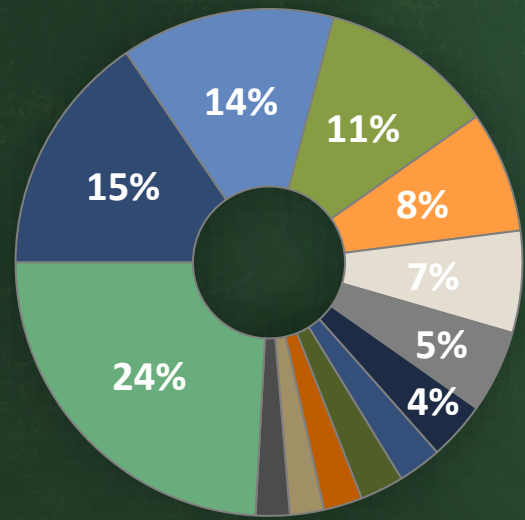
MASTER PLAN PROCESS



Detweiler Park Master Plan

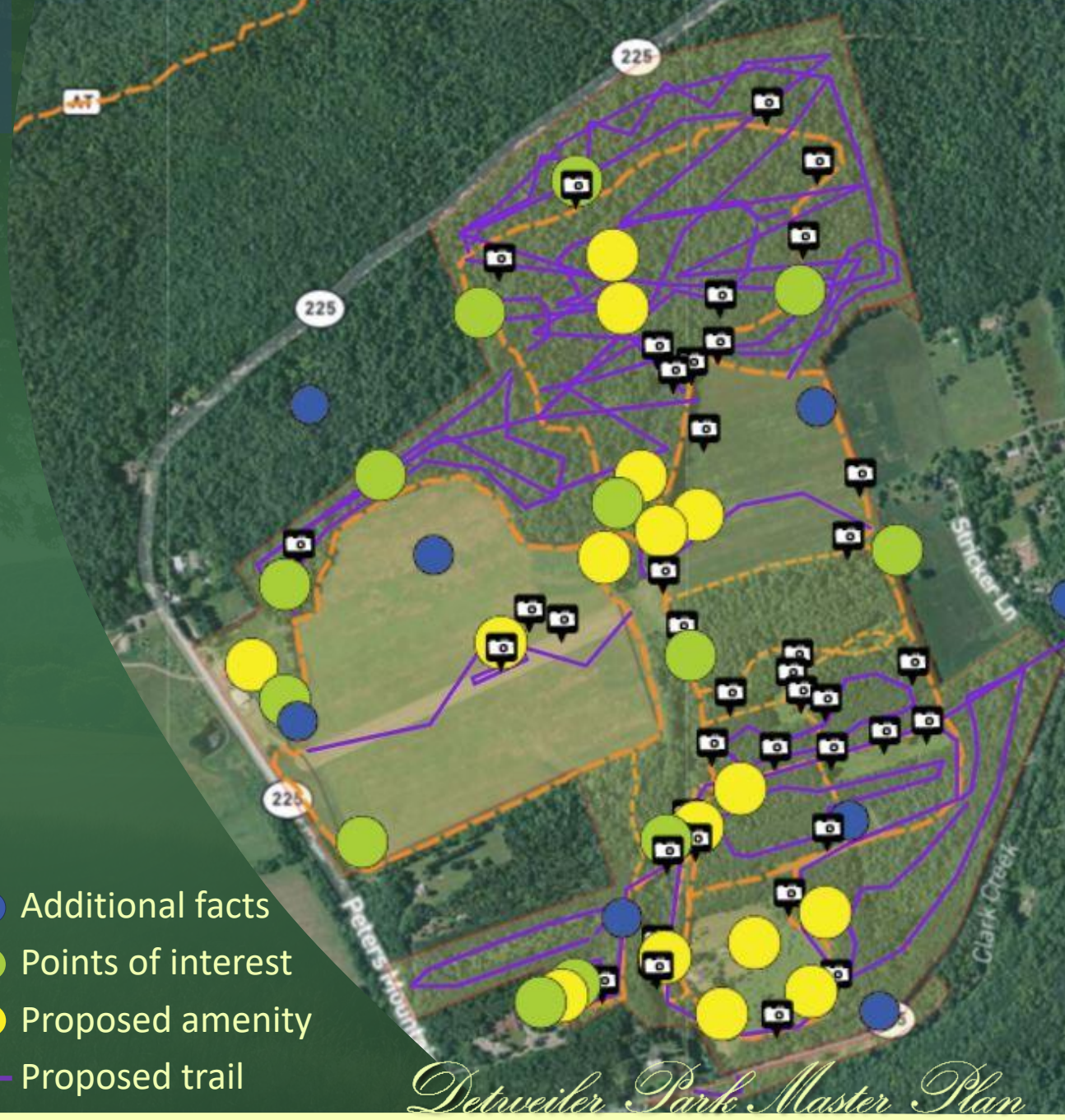
PUBLIC INPUT TO DATE

- Public Meeting 1 – 73 attendees
- Public Meeting 2 – 66 Attendees (virtual)
- Study Committee Meetings – 6 to date
- Key Person / Key Agency Interviews – 10
- Web-based Public Opinion Survey – 587
- Wiki Mapping Comments & Photos – 148



- Middle Paxton Township
- Lower Paxton Township
- Cumberland County
- Susquehanna Township
- Lancaster County

- Additional facts
- Points of interest
- Proposed amenity
- Proposed trail



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PUBLIC INPUT TO DATE

- Improved Site Access & Parking
- Restrooms
- Trail & Wayfinding Improvement
- Accessible Trails for all Seasons
- Preserve & Enhance Site Ecology



Detweiler Park Master Plan

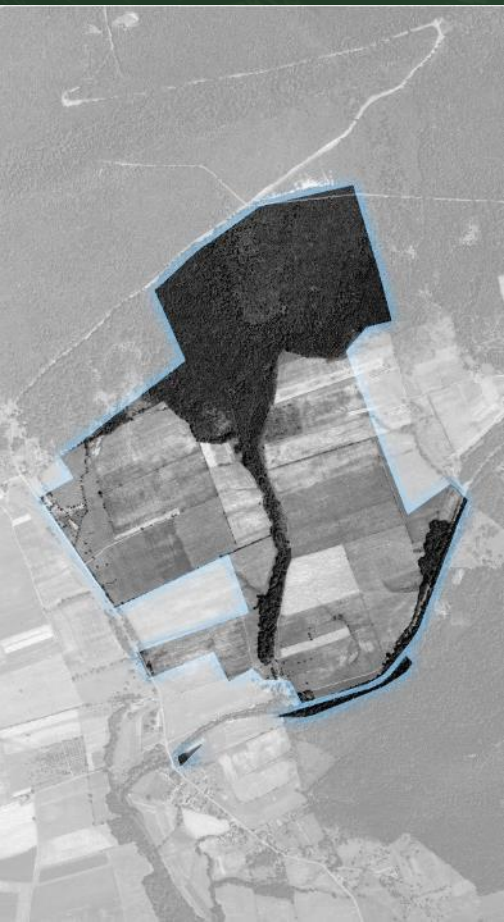
PROJECT GOALS & OBJECTIVE STATEMENT

*Develop a master site plan
that provides for public activities and facilities
that are married with the
enhancement of site ecology.
Create a 100-year vision for the site that guides
the site's transition from
private estate to public park.
Dovetail the Detweiler legacy with the
preservation of native settings that
celebrates and honors
all that Detweiler Park has to offer.*



Detweiler Park Master Plan

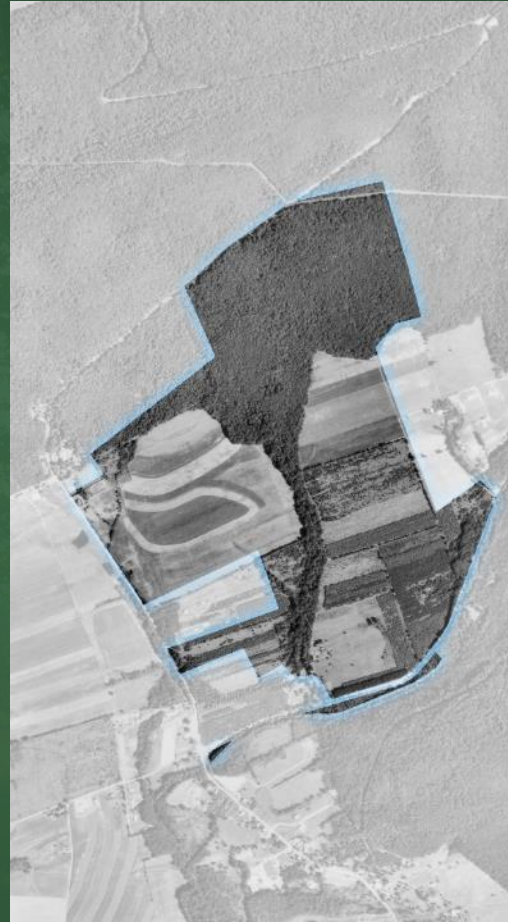
HISTORIC SITE AERIALS



1938



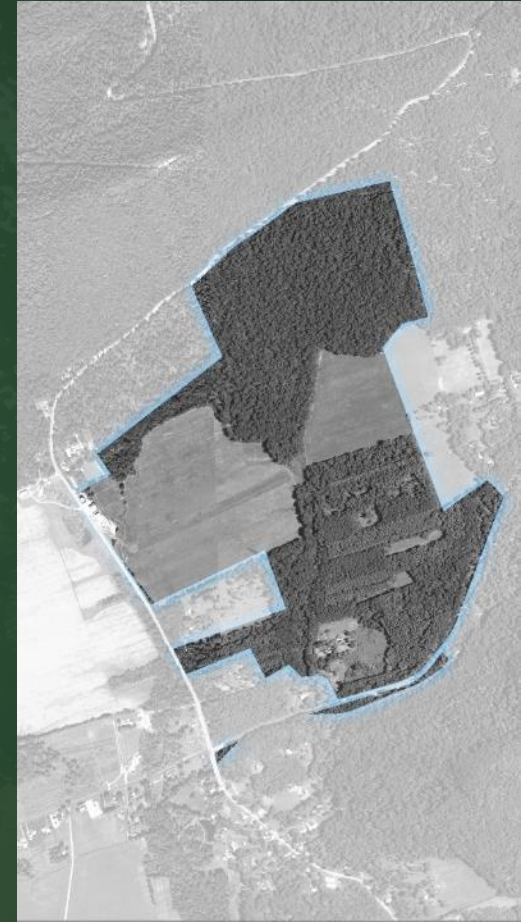
1956



1970



1990



2017

THIS IS A CULTURAL OR HUMAN-ALTERED LANDSCAPE

Detweiler Park Master Plan

COMPOSITE SITE ANALYSIS

Map with updated site constraints and opportunities:

- Steep Slopes
- AES Field Observations
- 100' Stream Buffer
- Hydric soils
- Hydrologic Draws
- Existing Trails

LEGEND

- Detweiler Park Boundary
- Main Trails
- Secondary Trails
- Buildings

Hydrology

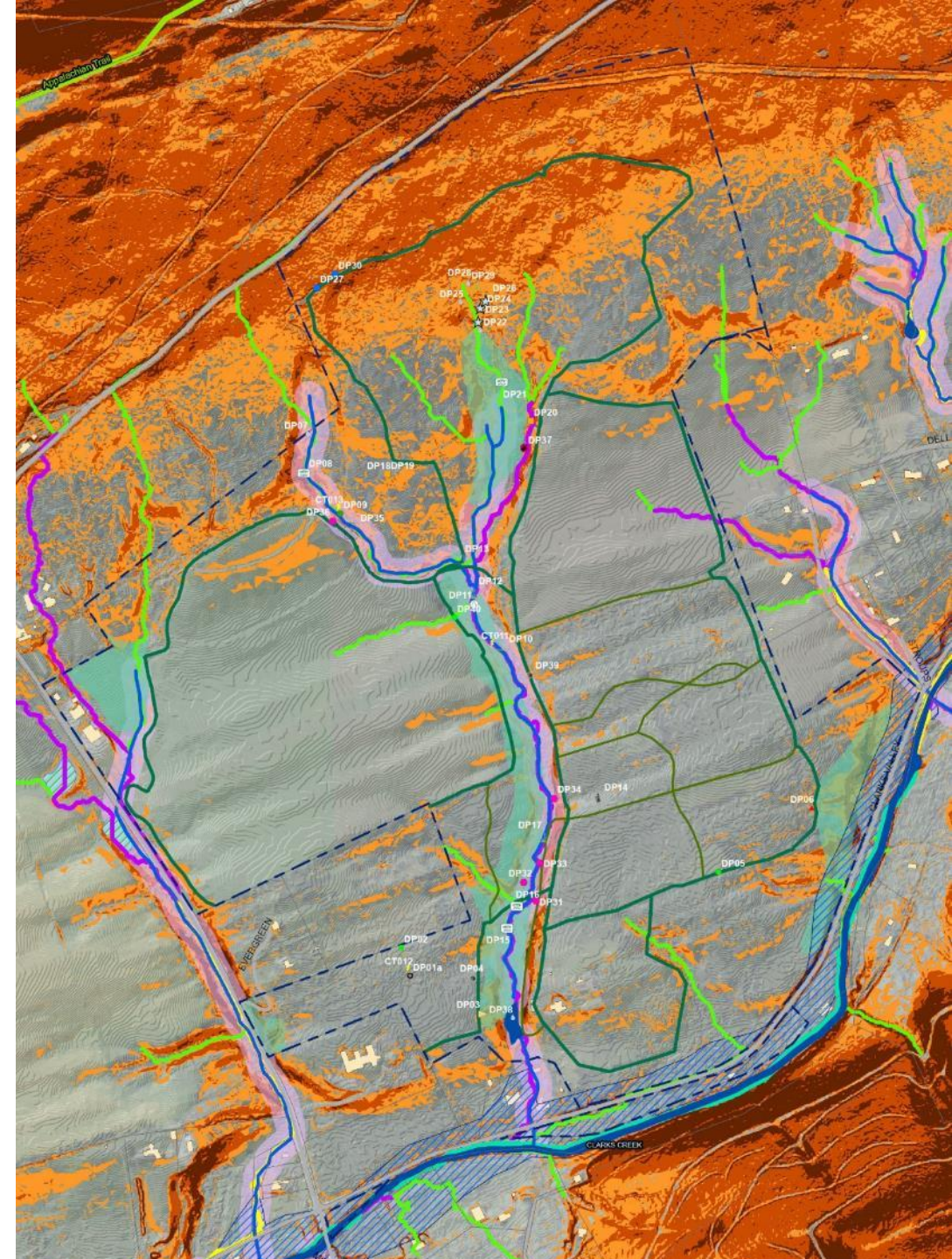
- Streams
- ▨ Floodplain
- ▨ Hydric Soils
- ▨ 100' Stream Buffer
- Hydraulic Draw 1
- Hydraulic Draw 2
- Hydraulic Draw 3
- Hydraulic Draw 4

Slope

- 8-15% Slope
- 15-25% Slope
- 25+ Slope

AES Field points

- | | |
|----------------------|---------------------|
| ● CAMERA TRAP | ▲ Invasive |
| ● Conifer plantation | ● Riparian Buffer |
| ▭ Culvert | ▲ Slope |
| ● Eco transition | ● Spring Ephemerals |
| ▭ Erosion | ■ Trail |
| ● Fauna | ■ Trail Drainage |
| ● Field | ○ Vernal Pool |
| ● Flora | ● Water |
| ● Forest | ▨ Wetland |
| ★ Headwater | |



FOREST STEWARDSHIP PLAN

- Draft Recommendations:

- Reduce invasive species in all management units
- Develop a deer management program to reduce the current population.
- Invasive species dominance and excessive deer browsing has prevented any natural regeneration of the forest.
- Once these elements are addressed in the first 5 years, Silvicultural recommendations for all of the management units can be implemented.

- Plan is currently being reviewed by DCNR District Forester

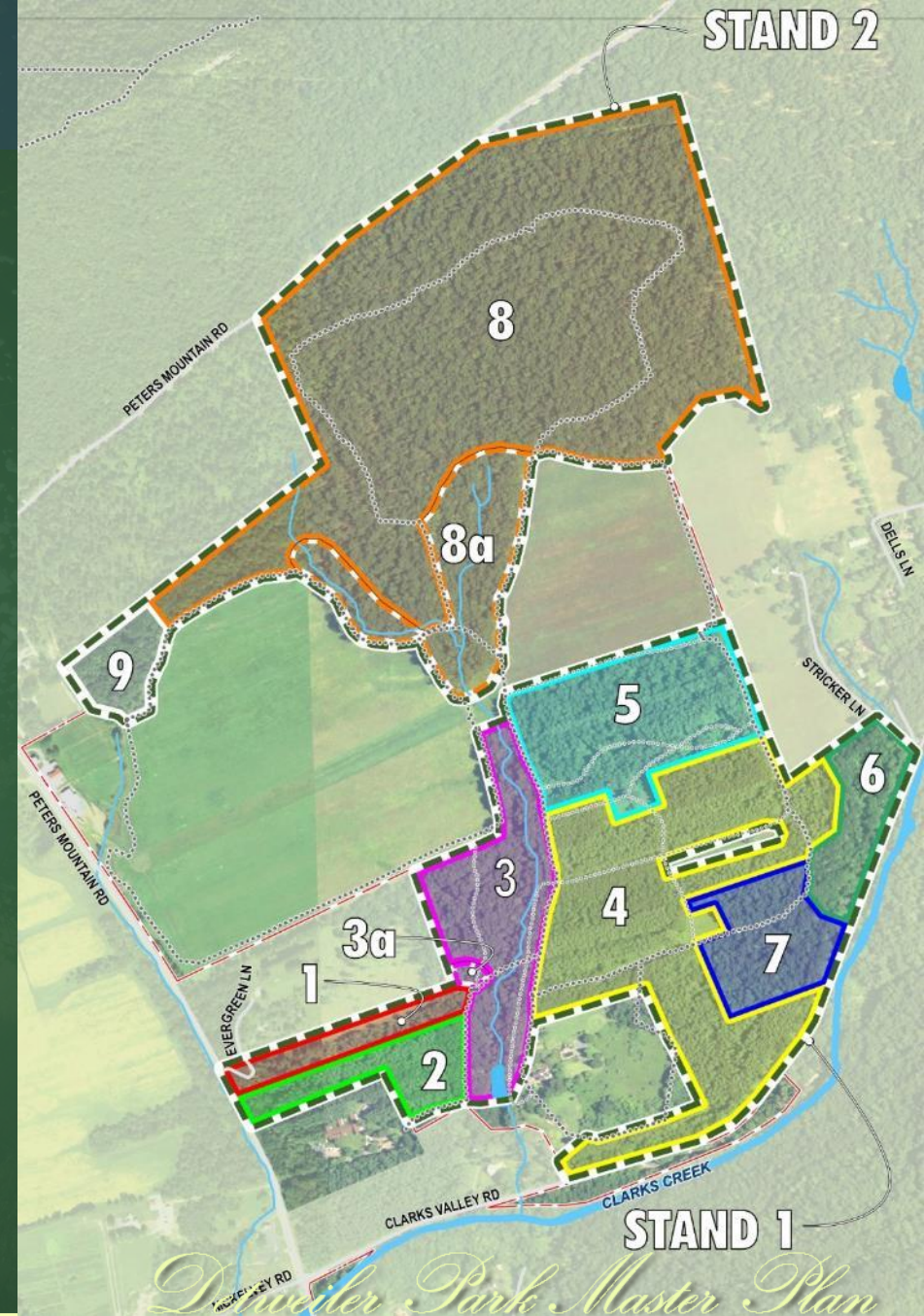
Area Sizes

STAND 1: 126 AC

- AREA 1: 5.80 AC
- AREA 2: 8.02 AC
- AREA 3: 19.97 AC
- AREA 3a: 0.60 AC
- AREA 4: 49.21 AC
- AREA 5: 22.72 AC
- AREA 6: 8.41 AC
- AREA 7: 11.44 AC

STAND 2: 168 AC

- AREA 8: 144.65 AC
- AREA 8a: 17.66 AC
- AREA 9: 5.22 AC



ECOLOGICAL SITE ASSESSMENT

- Recommendations
 - Meadow Management
 - Invasive Species Management
 - Waterways Management



Detweiler Park Master Plan

ECOLOGICAL SITE ASSESSMENT

- Individual Species Identified

Taxa	# of Species	Non-Native
Mammals	13	1
Reptiles	3	0
Amphibians	6	0
Birds	69	2
Insects/Inverts	79	??
Plants	156	22



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ECOLOGICAL SITE ASSESSMENT

- Camera Trap Data

Species	CE	WL	HW	Notes
White-tailed deer (doe)	18	6	15	Estimated (1000s of images)
White-tailed deer (buck)	5	0	3	Unique IDs from antler design
Coyote	8	2	1	Estimated (many pics)
Red fox	6	1	1	Estimated (many pics)
Striped skunk	3	1	3	
Raccoon	5	3	1	Estimated (many pics)
Virginia opossum	4	2	1	Estimated (many pics)
Rabbit	4	2	1	Estimated (many pics)
Mink	0	1	0	
House cat	1	0	1	
Domestic dog	1	0	0	
Human	4	1	0	
Unknown cat	0	0	1	possible bobcat
Unknown	3	2	2	
Northern cardinal	0	1	0	
Song sparrow	0	2	0	
Eastern bluebird	0	1	0	
Northern mockingbird	0	1	0	
Great blue heron	0	1	0	



Delmar

#MOULTRIECAM

13 MAR 2020 11:18 pm

ECOLOGICAL SITE ASSESSMENT

• Invasive Species Plan

- Using Standardized Management Units
- Linked closely to restoration plantings, seeding, and phasing!
- Deer Management CRITICAL
 - Exclosures
 - Controlled Culling / Removal
 - State/Federal Support
- Significant Effort which will require:
 - Phased execution (structure retention)
 - Timing matrix for species-specific approach
 - Most woody species work can occur in the winter with follow-up spot treatments
 - Targeted/just-in-time spraying and hand pulling of *Miostegium* (Japanese Stilt Grass) will be key
 - FIRE (useful management technique)



ECOLOGICAL SITE ASSESSMENT

• Meadow Management Plan

- Primary ecological drivers will be
 - Spatial Ecology and Critical nesting habitat for grassland birds (bird group in largest global decline currently)
 - Botanical diversity
 - Insect diversity
 - Soften edges and transitions to savanna and forested habitats with shrubs and tree plantings
- No-till, seed drill native graminoids and wildflowers into existing meadow
- Identify "hotspots" for planting plugs"
 - Can be a repeated volunteer effort every April and September



ECOLOGICAL SITE ASSESSMENT

• Waterways Plan

- Identify assets and ecological stressors for each drainage (help from stakeholders!)
- Provide dam breach vs. Improvement scenarios
- Develop conceptual restoration plans to:
 - Ensure connectivity for seasonal fish movements
 - Eliminate erosion and invasive plants
 - Locate and reduce/eliminate stormwater runoff from manmade infrastructure using natural solutions
 - Increase biodiversity
 - Protect and enhance seepage wetlands and high-quality upper watershed resources



BUILDINGS ASSESSMENT

- Peter's Mountain Stone Farmhouse & Garage - Good Condition
 - Continue Use as Residential Rental Property;
 - Define limits of non park areas
- Peter's Mountain Barn - Some repairs required
 - Serve as park storage & maintenance facility
- Peter's Mountain Hangar - Good Condition
 - Currently rented for single use
 - Transition into Community Flex Space



Detweiler Park Master Plan

BUILDING ASSESSMENT

- Detweiler House - Good Condition
 - Current Use as Residential Rental Property;
 - Transition to use as Park office and Educational Program Center
- Pool House – Good Condition
 - Repurpose for Park Restrooms & Storage
- Stable - Good Condition
 - Park Maintenance & Food Forest Equipment
- Fish Hatchery - Good Condition
 - Upgrade Restrooms to be assessable



Detweiler Park Master Plan

CONCEPT PROGRESSION AND REFINEMENTS

- Initial Concept Explored various program items received from Public and Committee; and
- Looked to determine the level of active and / or passive recreation would take place in the park
- Refinements were based on Site Reconnaissance, Committee and Public Input, and Team Collaboration



CONCEPT 1



CONCEPT 2



CONCEPT 3



CONCEPT 4

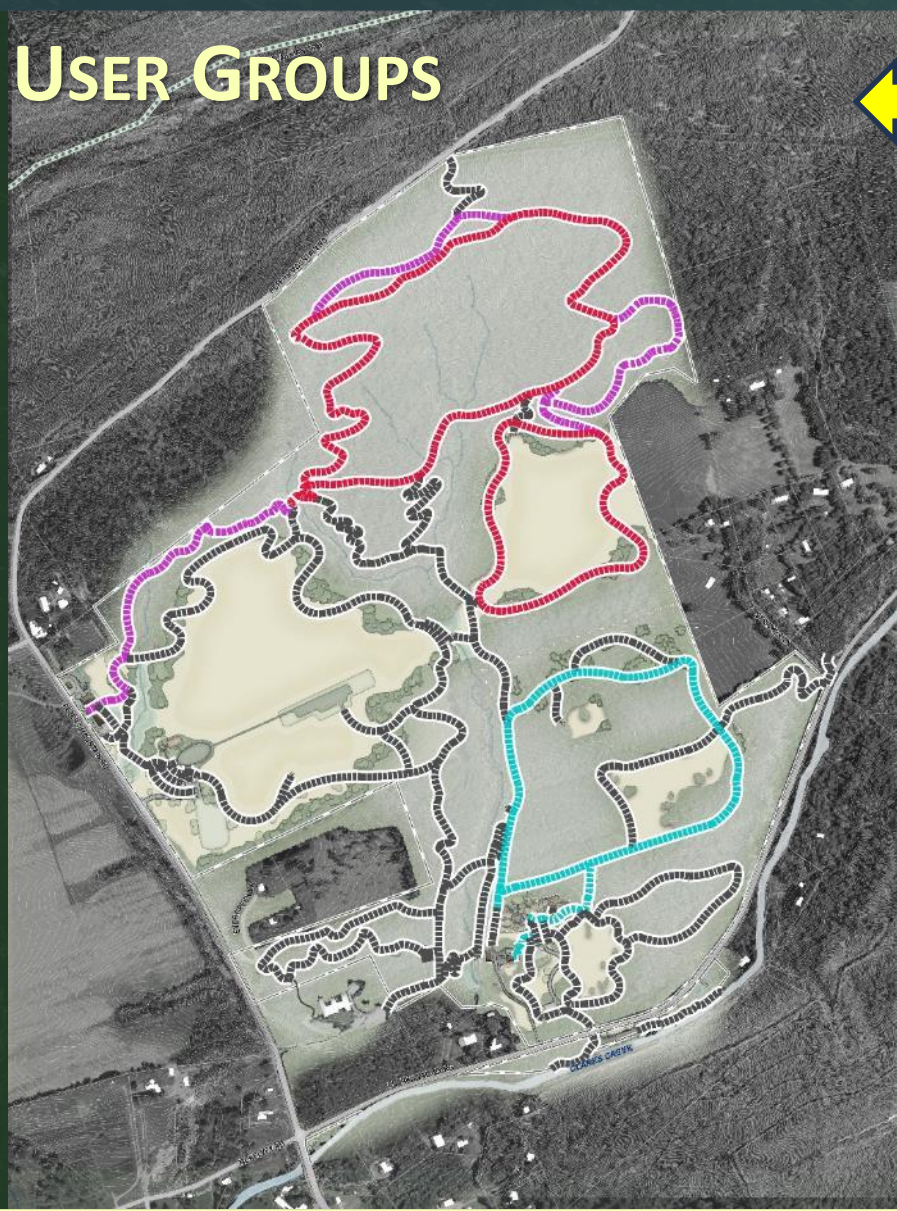
DRAFT PLAN

- Enhance Natural Systems
 - Proposed Meadow Habitat 70 Acres
 - Reforestation / Riparian Buffers Planting 20 Acres
- Create Safe Access Points
 - Peters Mountain Road Core Activity Area
 - Detailer Core Activity Area
- Improve Trails & Create Hierarchy
 - Proposed Trails – 8.45 (2.37 Additional Miles)
- Provide Facilities
 - Parking
 - Restrooms
 - Pavilions
- Recreational Opportunities
 - Walking, running, hiking
 - Nature Studies
 - Playgrounds
 - Disc Golf
 - Food Forest
 - Bike riding
 - Cross County Skiing / Snowshoeing



TRAIL HIERARCHY

USER GROUPS

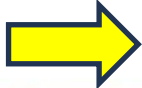


TRAIL LEGEND

User Group

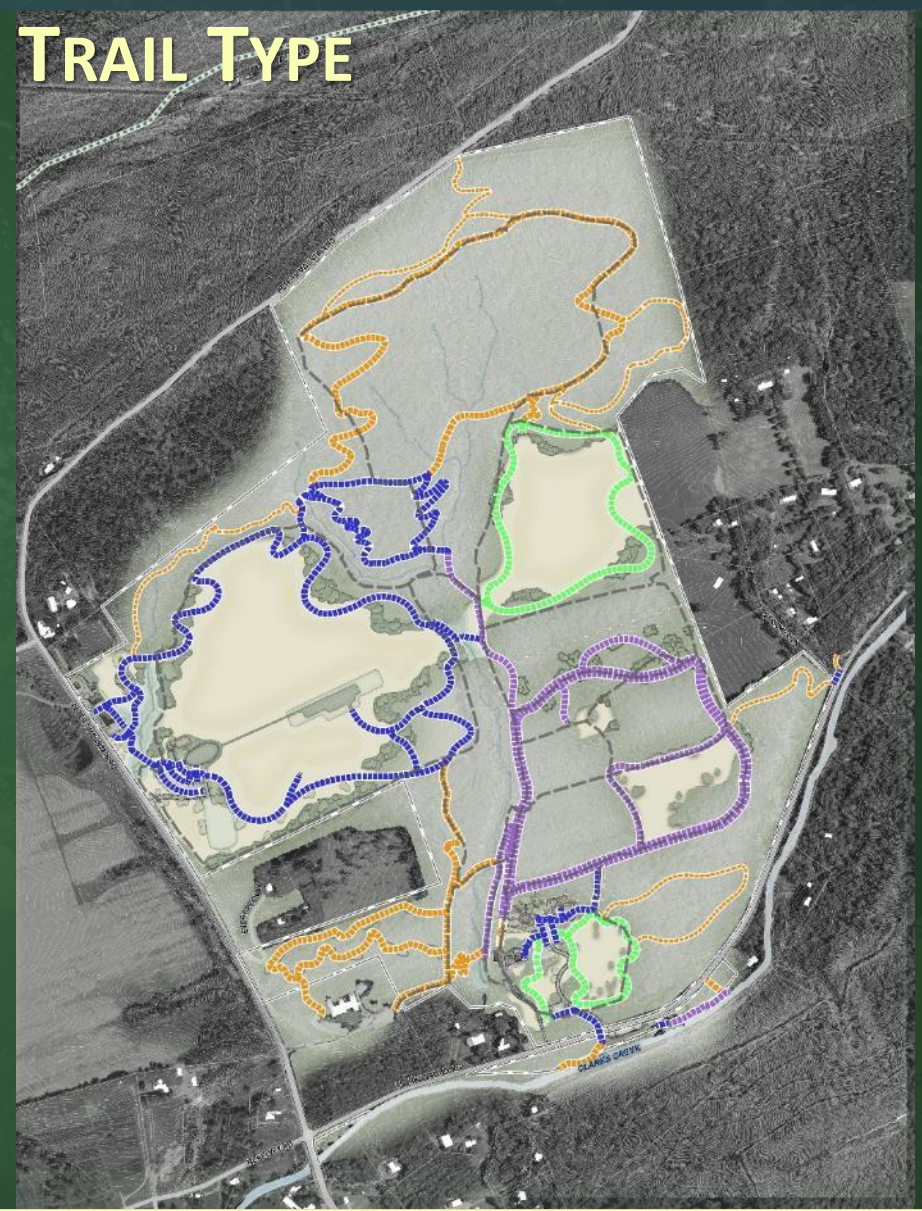
- Pedestrian Only
- Shared Use - Mt. Biking Allowed
- Shared Use - No Mt. Biking
- Mt. Bike

Trail Type



- Existing Trail Alignments
- Accessible Trail - Paved
 - 6-8' Wide
- Accessible Trail - Stone dust
 - 5-8' Wide
 - 10-12' Wide
- Mown Trail
 - 6-8" Wide
- Native Material (Dirt) Trail
 - 1-3' Wide (Single Track)
 - 6-8' Wide

TRAIL TYPE



Improve Trails & Create Hierarchy

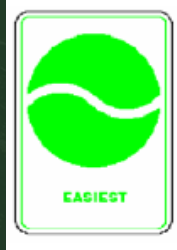
Proposed Trails – 8.45
(2.37 Additional Miles)

TRAIL HIERARCHY - SURFACES



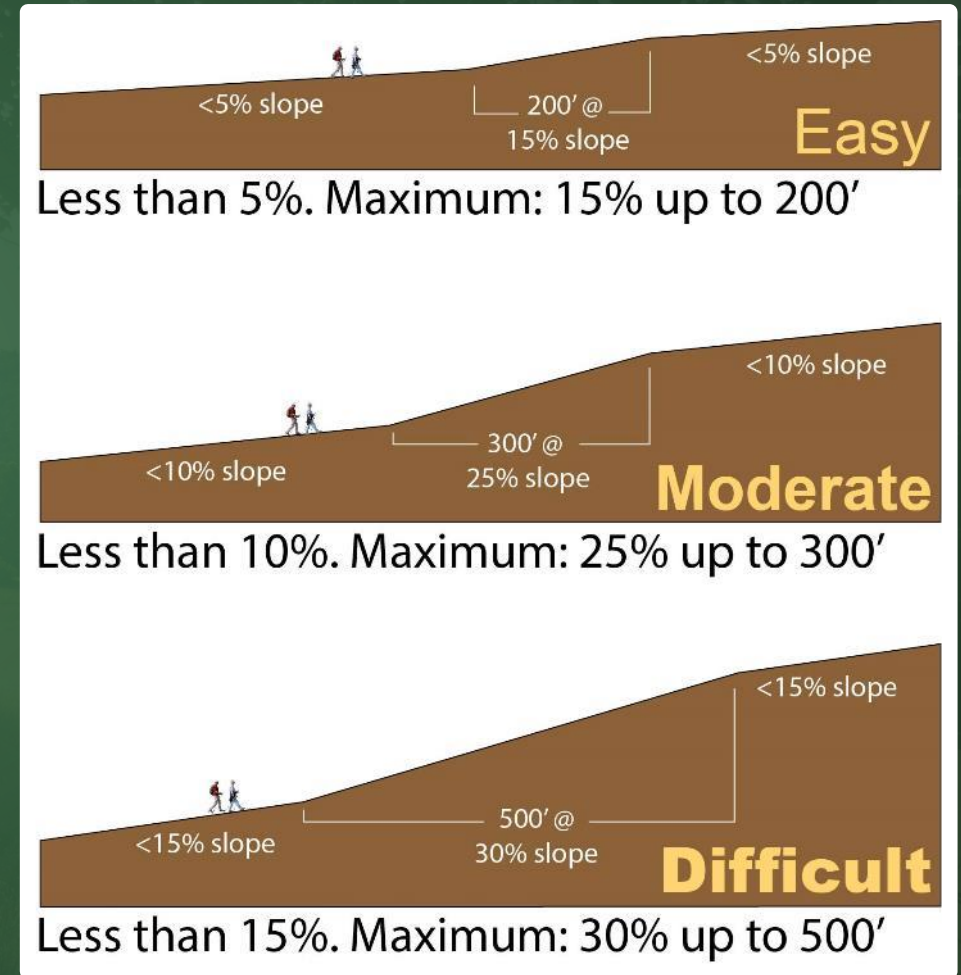
TRAIL STANDARDS

Difficulty Level Signage



SHARED USE TRAILS					
Difficulty	Shoulder	Width	Slope	Cross Slope	Surfacing Materials
Easy Easiest	1.5' - 2'	One-way: 2' - 4' Two-way: 5' - 6'	< 5%. Max.: 15% up to 200'	0-4%	Smooth tread, few obstacles.
More Difficult	1' - 1.5'	1.5' - 4'	< 10%. Max.: 25% up to 300'	0-4%	Occasional roots/ rocks up to 6".
Most Difficult	1'	1'-2'	< 15%. Max.: 30% up to 500'	4-8%	Sidehill trail may not be firm/stable. Obstacles/roots/ rocks/steps 6" - 12". Some portages necessary.

Source: Guidelines for Marking Recreational Trails - DCNR July, 2008.
National Trail Difficulty Rating System



TRAIL STANDARDS

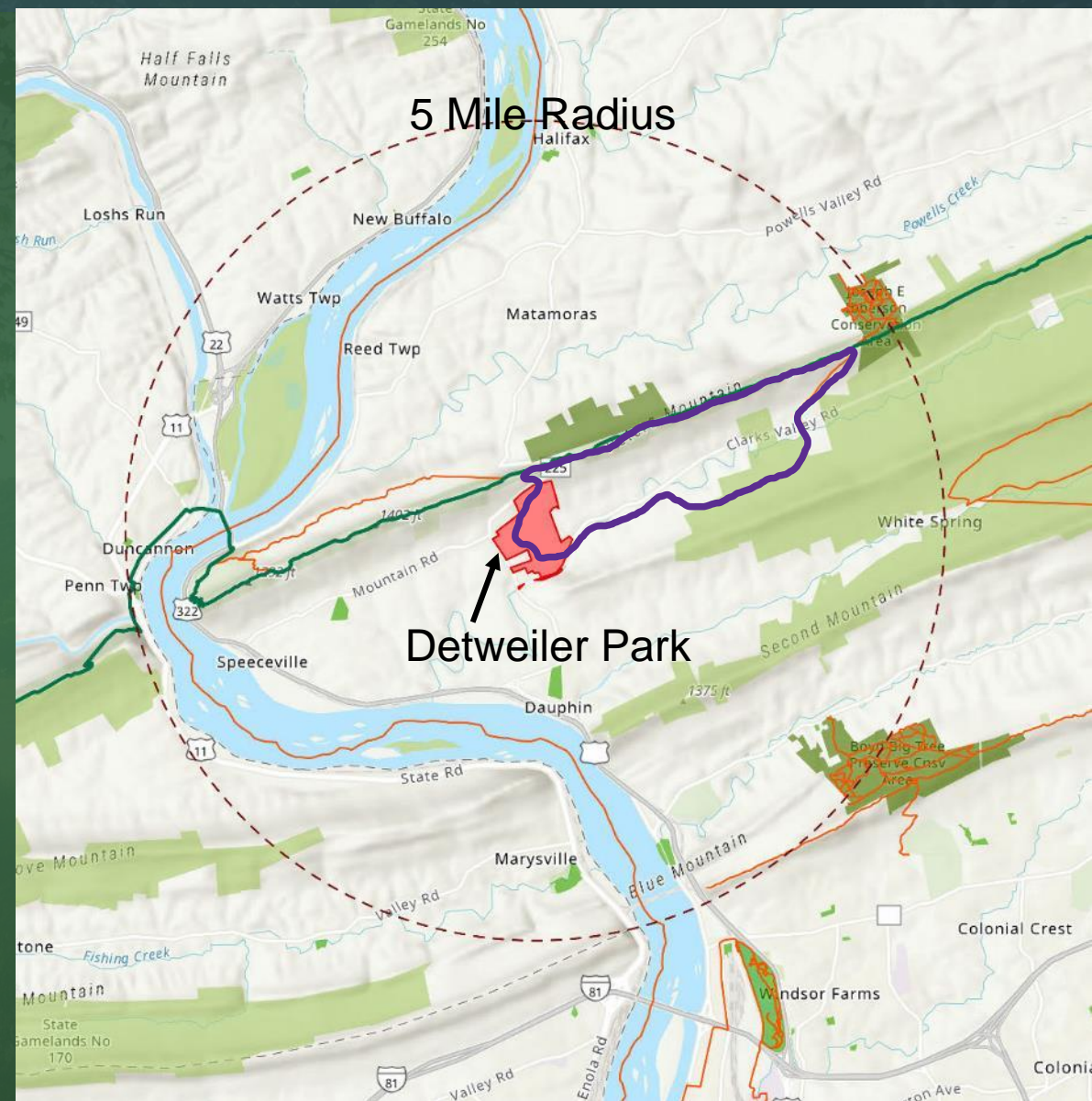
- Trail Wayfinding
- Educate on Trail Use/Etiquette
- Trail Markers Can Incorporate
 - Trail Name
 - User Groups
 - Difficulty
 - Emergency Response Location Code (ERL)
 - QR Scan Code for info: Maps / Interpretive Content



Detweiler Park Master Plan

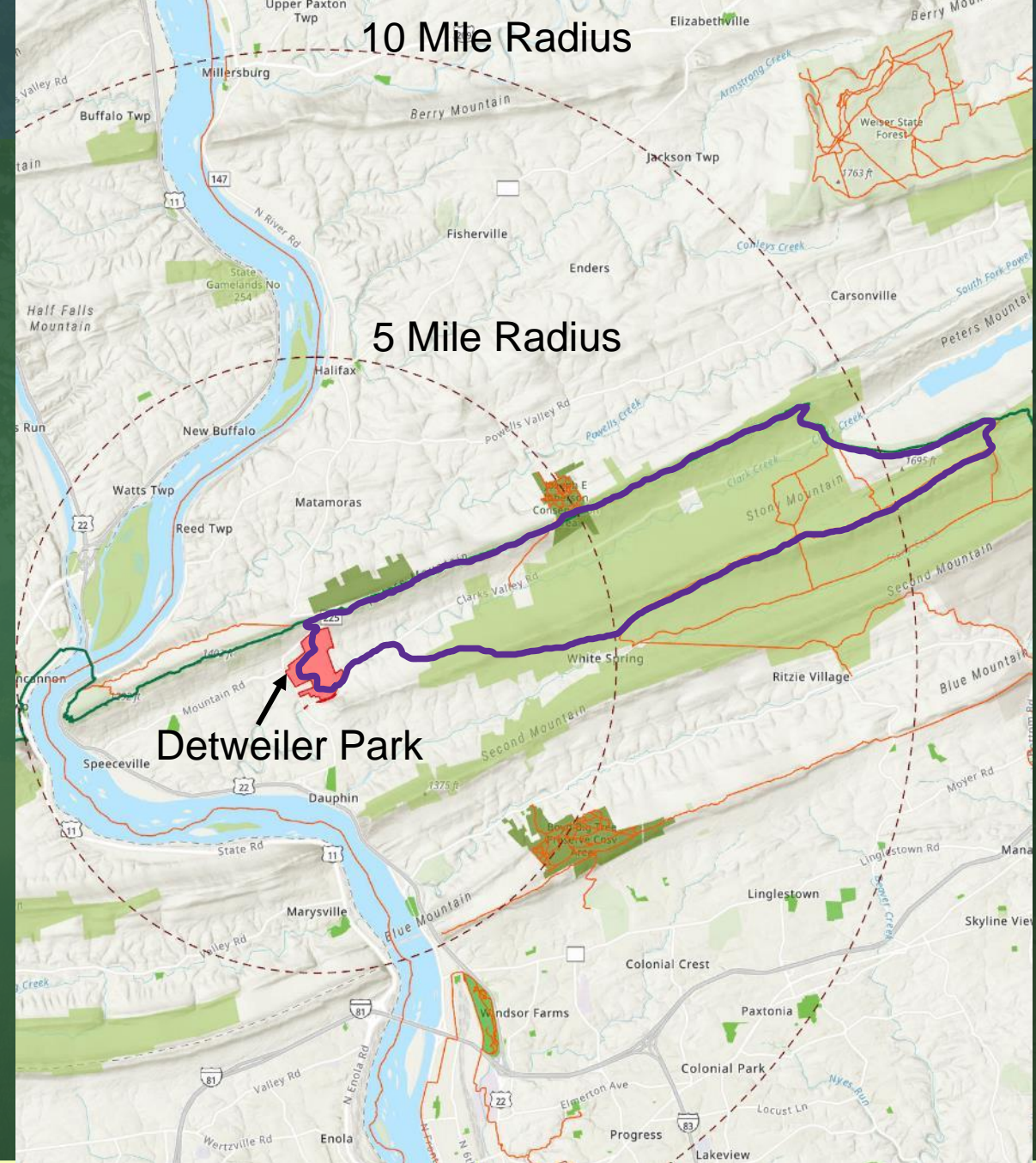
REGIONAL CONNECTIONS

- Connection to Bailey's Grove, St Anthony Wilderness, Victoria Furnace Trail and Appalachian Trail would create an approximate 12 -mile hiking loop.
- Average hike time 6-7 hours
 - 1-2 Trail Easements Required to connect to State Game Lands
 - 2-3 Trail Easements Required to connect to Appalachian Trail



REGIONAL CONNECTIONS

- Connection to Bailey's Grove, St Anthony Wilderness' Horseshoe Trail & Rattling Run, and Appalachian Trail would create an approximate 29-mile hiking loop.
- Average hike time 14-15 hours
 - 1-2 Trail Easements Required to connect to St Anthony Wilderness
 - 2-3 Trail Easements Required to connect to Appalachian Trail



DRAFT PLAN

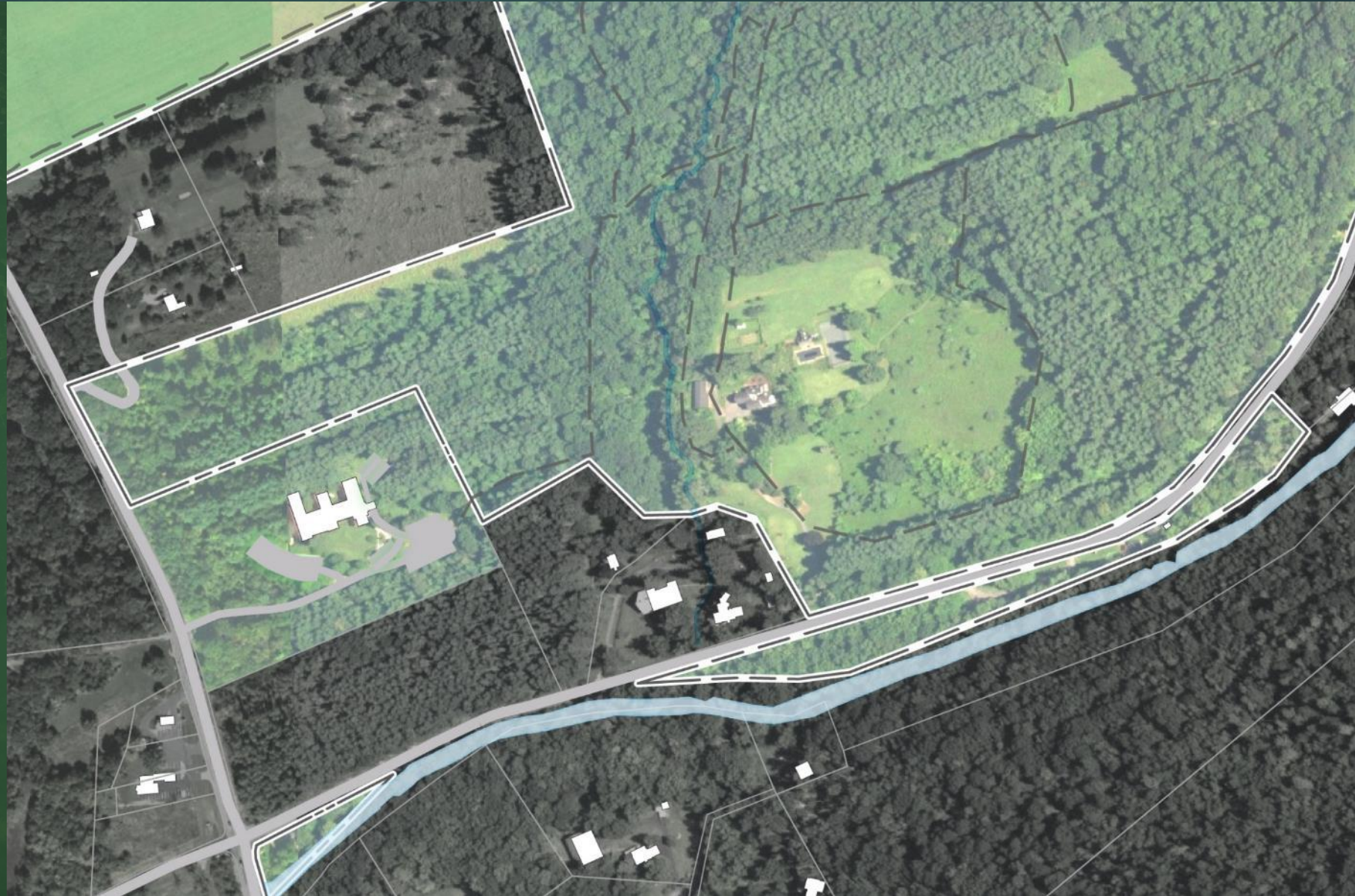
- A** Frankie's Dogleg Meadow & Conservation District Trail Head
- B** Clarks Creek & E. J. Stackpole Memorial Fishery
- C** Forest Restoration Area
- D** David's Meadow
- E** Meade's Mountain
- F** Airfield Meadow



FRANKIE'S DOG LOOP MEADOW & DCCD TRAIL HEAD - EXISTING

- Frankie's Dog loop Meadow is robust, and seedlings of white pine are self introducing.
- Southern portion of trail is seasonally inundated.
- DCCD Serves as main Public Access and Trailhead for Park

Area: 58.0 Acres
Existing Trails: 0.9 miles
Mown



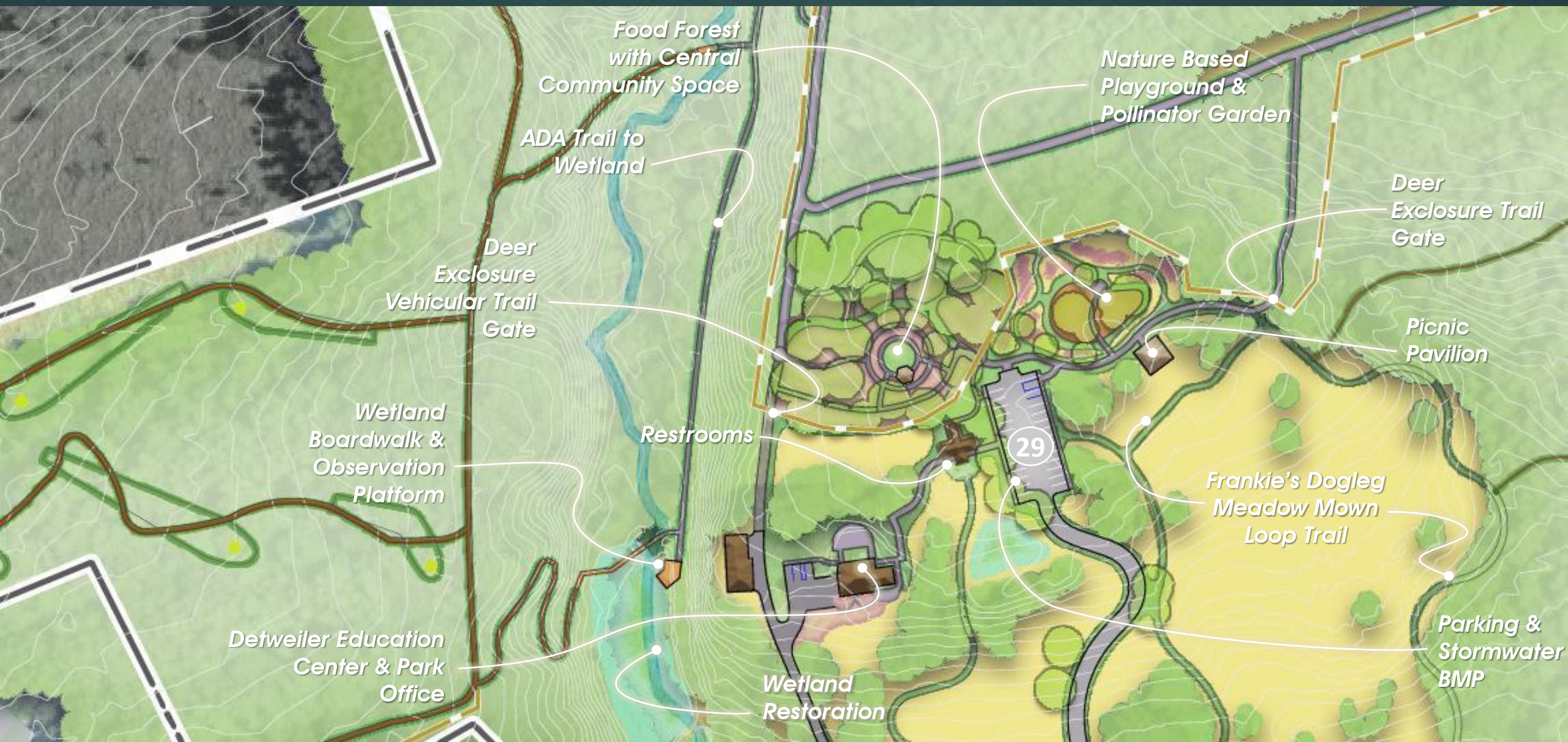
FRANKIE'S DOGLEG MEADOW & DCCD TRAIL HEAD

- 1 New Park Entrance, Trail Head Parking & Core Activity Area
- 2 Maintain & Expand Existing Frankie's Dogleg Meadow & Mown Trail
- 3 New Clarks Creek Forest Hiking Trail
- 4 Pond to Wetland Restoration
- 5 Maintain Existing DCCD Trail Head
- 6 9-Hole Disc Golf Course
- 7 Stackpole Trail Improvements



Detweiler Park Master Plan

FRANKIE'S DOGLEG MEADOW & DCCD TRAIL HEAD



Food Forest with Central Community Space

ADA Trail to Wetland

Deer Exclosure Vehicular Trail Gate

Wetland Boardwalk & Observation Platform

Detweiler Education Center & Park Office

Restrooms

Wetland Restoration

Nature Based Playground & Pollinator Garden

Deer Exclosure Trail Gate

Picnic Pavilion

Frankie's Dogleg Meadow Mown Loop Trail

Parking & Stormwater BMP

FRANKIE'S DOGLEG MEADOW & DCCD TRAIL HEAD



FRANKIE'S DOGLEG MEADOW & DCCD TRAIL HEAD



POND BEFORE



POND AFTER



E. J. STACKPOLE MEMORIAL FISHERY - EXISTING

- Connect into Park
- Address Stream Health



Detweiler Park Master Plan

E. J. STACKPOLE MEMORIAL FISHERY

- 1 Crosswalk with Rapid Flashing Beacon
Shade Structure on Fish
- 2 Hatchery
- 3 ADA Fishing Pier
- 4 ADA Streamside Fishing Access Trail
Hiking Trail
- 5 Streambank Stabilization (Typical)
- 6 Clark Valley Road Stormwater BMP (Typical)



FISHING ACCESS BEFORE



FISHING ACCESS AFTER



E. J. STACKPOLE MEMORIAL FISHERY

- 1 Restoration Plantings & Clark Valley Road Stormwater BMP
- 2 Streambank Stabilization
- 3 Park Sign



FOREST RESTORATION AREA – EXISTING

- Forest severely compromised by invasive species
- Dominated by evergreens with some deciduous species to the north and east.
- Trail network intensive and lacks wayfinding



Area: 65.7 Acres
Existing Trails: 2.1 miles
Native Surface

FOREST RESTORATION AREA

- ① Forest Loop Shared Use Trail – 1 mile
(No Mountain Bikes)
- ② Meadow Restoration ADA Walk – .16 mile
- ③ Woodland Restoration Interpretive ADA Walk – .25 mile
- ④ Secrete Meadow Overlook
- ⑤ Riparian Forest Overlook
- ⑥ Gate to Frankie's Meadow
- ⑦ Gate to Stackpole Trail
- ⑧ Gate to David's Meadow
- ⑨ Future Connection to Bailey's Grove



FOREST RESTORATION AREA

55 Acre Area



FOREST RESTORATION AREA



Woodland Restoration
Interpretive ADA Walk



Schweitzer Park Master Plan

FOREST RESTORATION AREA



Detweiler Park Master Plan

DAVID'S MEADOW – EXISTING

- Open field joins the two site wood lots
- Trail hugs perimeter
- No edge transition to forest
- Borrowed view into neighboring farm



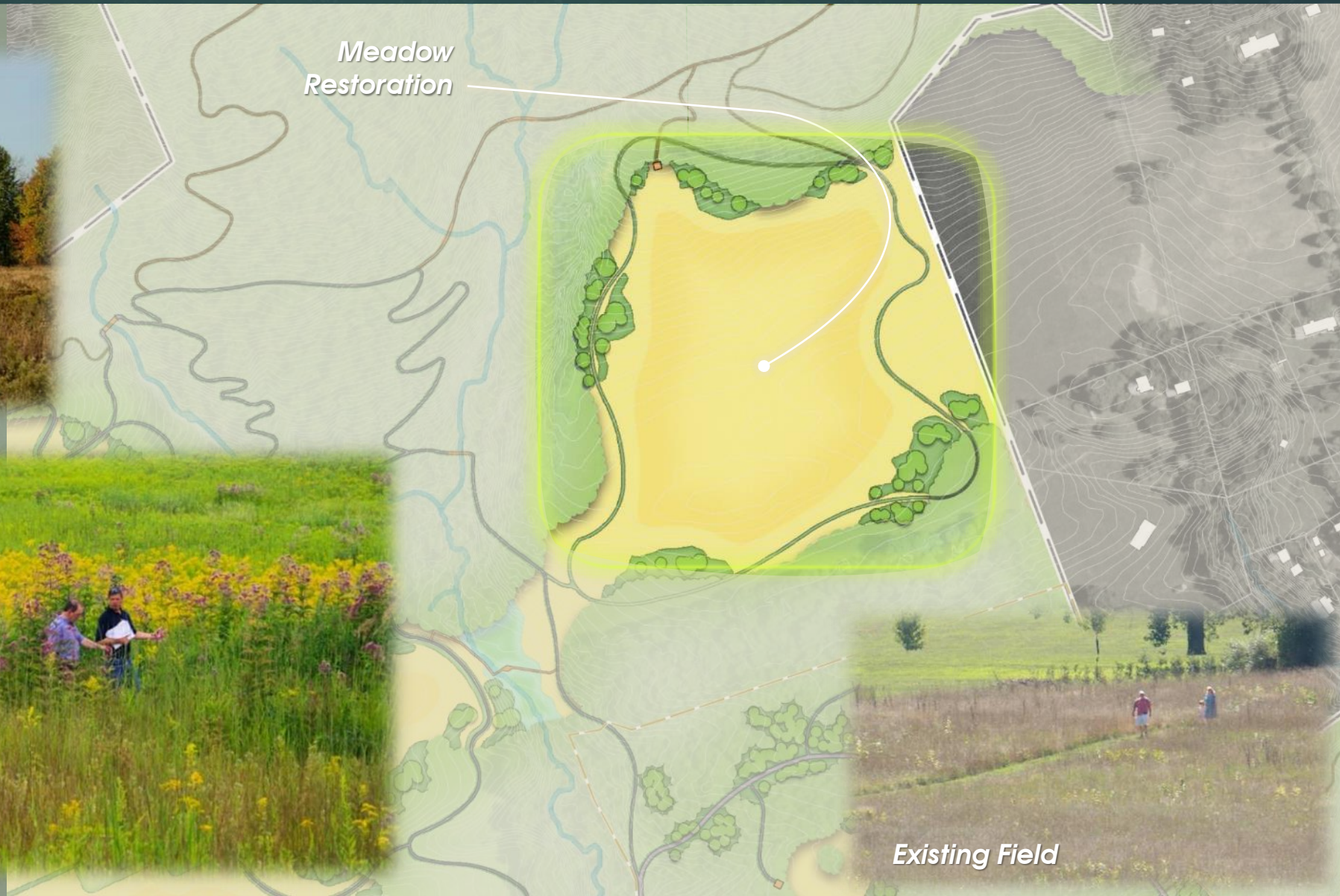
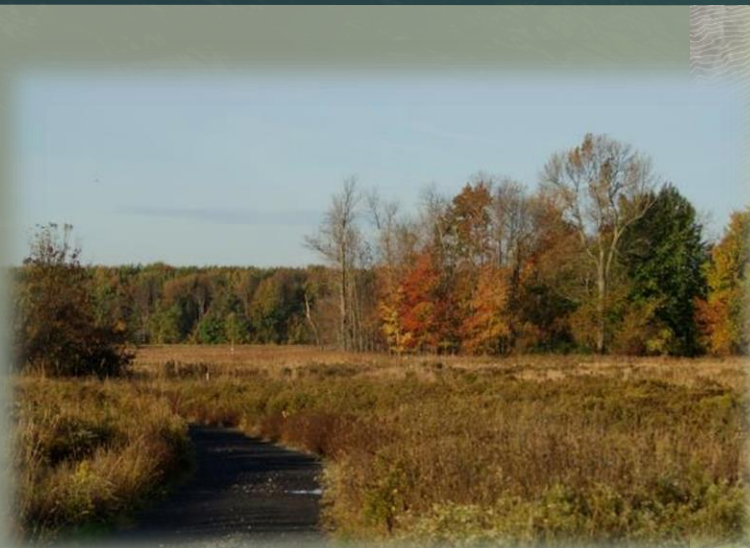
Area: 65.7 Acres
Existing Trails: 0.08 miles
Mown

DAVID'S MEADOW

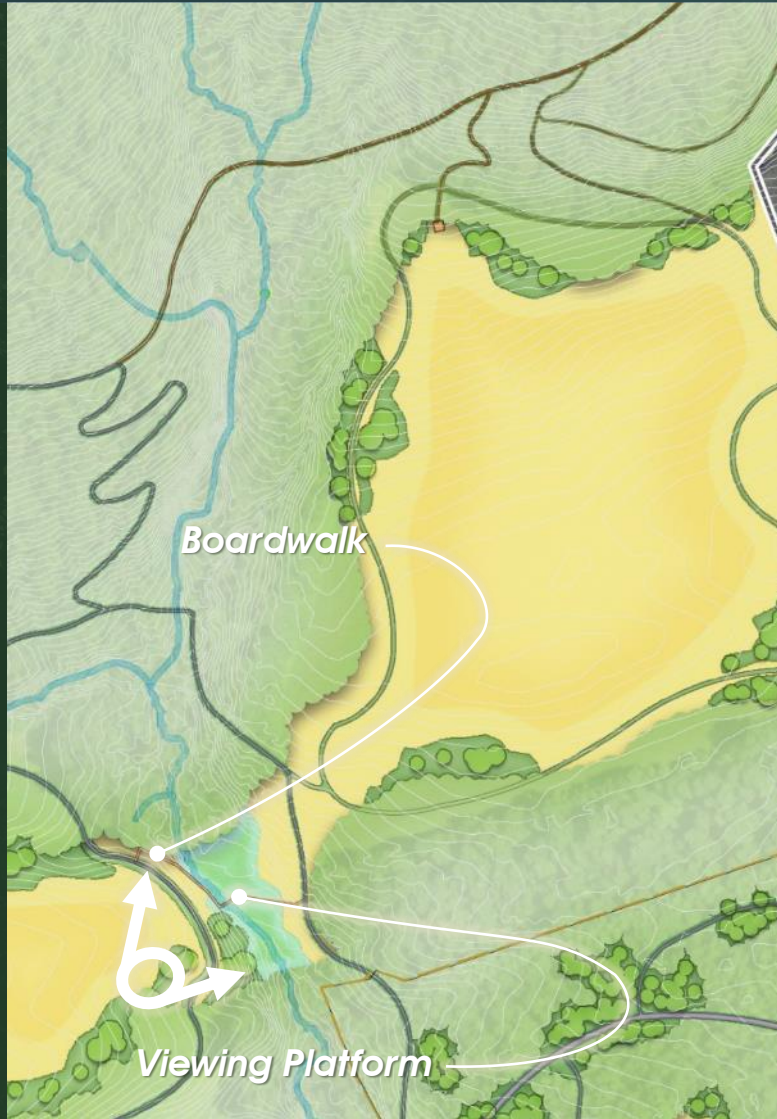
- ① Meadow Mown Shared Use Trail
- ② Meadow Restoration
- ③ Reforestation
- ④ Meadow Overlook Platform
- ⑤ Streamside ADA Trail
- ⑥ Stream Foot Bridge
- ⑦ Trail Boardwalk
- ⑧ Wetland Boardwalk



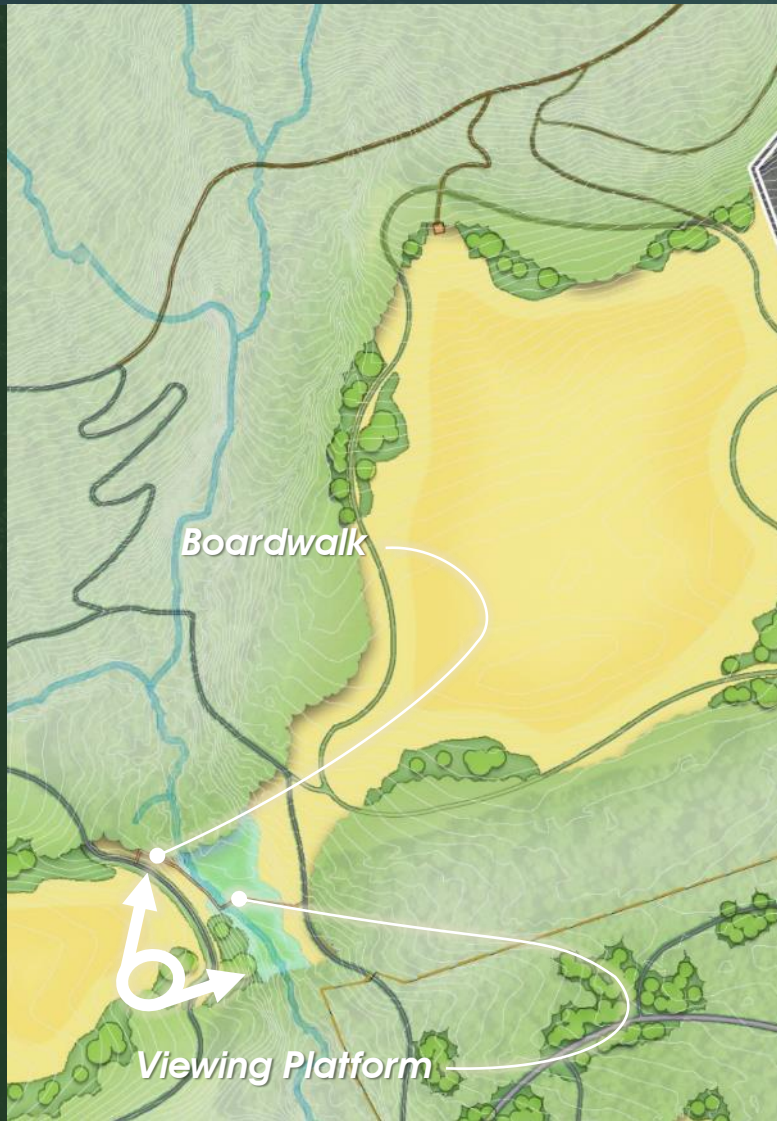
DAVID'S MEADOW



WETLAND BOARDWALK BEFORE



WETLAND BOARDWALK AFTER



MEAD'S MOUNTAIN – EXISTING

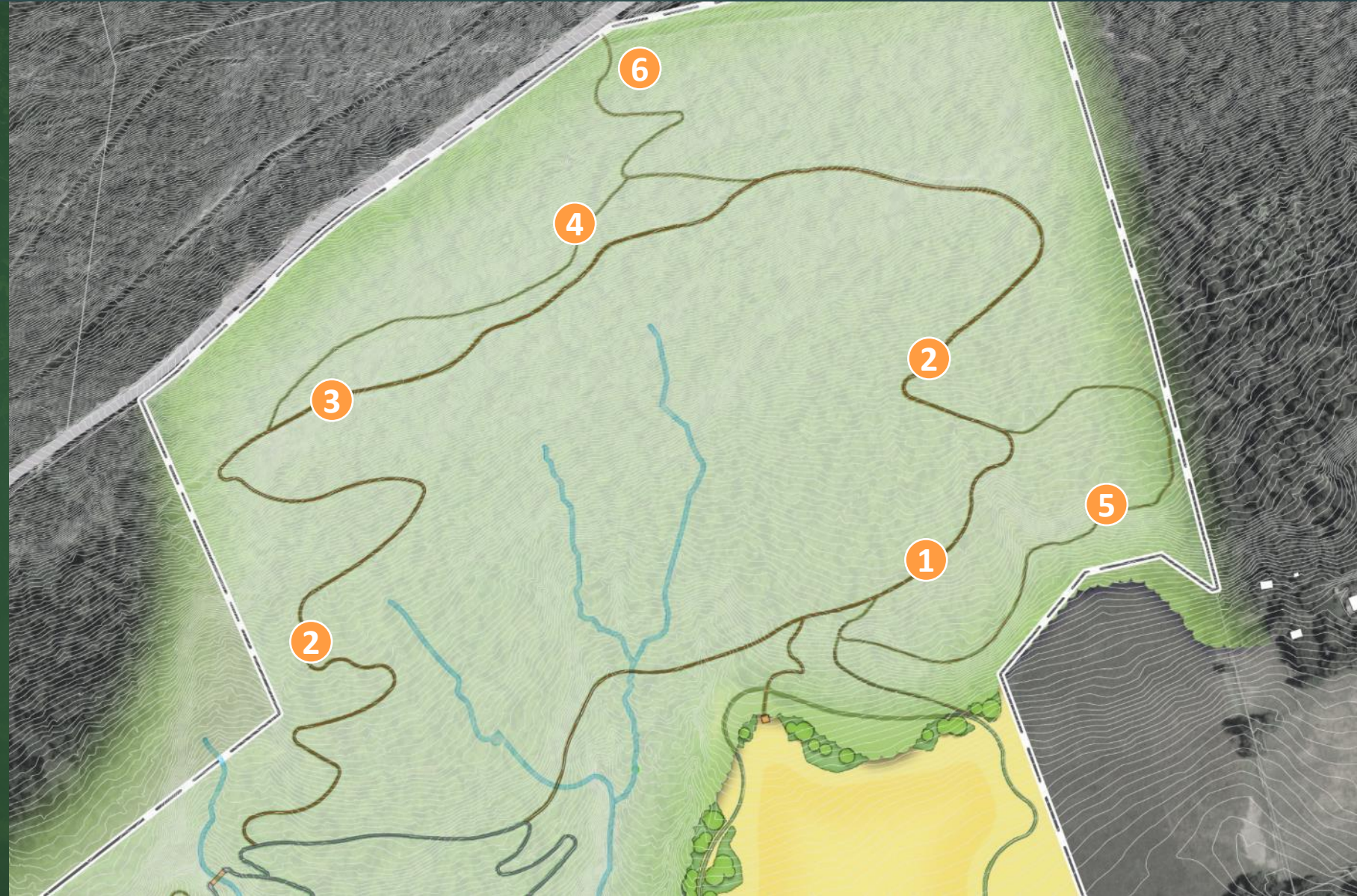
- Steep slopes limit accessibility
- Heavily browsed area
- Springs along northern Limits and central part of hillside

Area: 102.8 Acres
Existing Trails: 1.6 miles
Native Surface



MEAD'S MOUNTAIN – FACILITIES

- ① Shared Use Mead's Mt Loop Trail
- ② Mead's Trail Realignment
- ③ Side Trail Plank Boardwalk in Seasonally wet Areas
- ④ Mountain Top Mt. Bike Skills Trail - ¼ mile
- ⑤ East Mt. Bike Skills Trail- ½ mile Mountain
- ⑥ Future Hiking Trail Connection to Appalachian Trail



AIRSTRIP MEADOW – EXISTING

- Open field
- Trail hugs perimeter
- No edge transition to forest
- Limited Riparian Buffers

93.6 Acres
Existing Trails: 1.4 miles
Mown Trail



AIRSTRIP MEADOW – FACILITIES

- ① ADA Meadow Loop Trail – 1.6 Miles
- ② Mead's Mt Mt. Bike Access Trail – 0.3 Miles
- ③ Boardwalk Crossing
- ④ Meadow Restoration
- ⑤ Reforestation Area
- ⑥ HAFS Airfield
- ⑦ Core Activity Area
- ⑧ Peter Mt Farmhouse
- ⑨ Barn Complex & Hanger / Community Flex Space



AIRSTRIp MEADOW – CORE ACTIVITY AREA



AIRSTRIP MEADOW BEFORE





PROBABLE COST OF DEVELOPMENT

- Phase Over 16-20 Years
- Implementation Priorities:
 - Site Access / Parking Improvements
 - Restrooms
 - ADA Trail Improvements
 - Meadow Restoration

1. Frankie's Dogleg Meadow & DCCD Trail Head	\$ 983,200
Total Proposed Site Improvements	786,300
Design and Engineering	78,700
Construction Cost Total	118,200
2. E.J. Stackpole Memorial Nursery	\$ 740,800
Total Proposed Site Improvements	786,300
Design and Engineering	78,700
Construction Cost Total	89,000
3. Forest Restoration Area	\$ 910,100
Total Proposed Site Improvements	728,000
Design and Engineering	72,800
Construction Cost Total	109,300
4. David's Meadow and Stream Side ADA Trail	\$ 868,500
Total Proposed Site Improvements	694,700
Design and Engineering	69,500
Construction Cost Total	104,300
5. Meade's Mountain	\$ 280,900
Total Proposed Site Improvements	224,600
Design and Engineering	22,500
Construction Cost Total	33,800
6. Airstrip Meadow	\$2,342,000
Total Proposed Site Improvements	1,873,400
Design and Engineering	187,400
Construction Cost Total	281,200
Park Wide Improvements Total:	\$5,832,300
Total Proposed Site Improvements	4,664,600
Design and Engineering	466,800
Construction Cost Total	700,900

*Construction Cost Include are estimated as a percentage of the total improvement cost. They include: Mobilization 3%, Erosion & Sedimentation Control 2%, and Construction Contingency 10%

NEXT STEPS

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Detweiler Park Master Plan

NEXT STEPS

Draft Plan Review Period until November 16th

Will Be posted to the County Website

On Monday 9.28.2020:

<http://www.detweilerpark.org>

DISCUSSION / Q & A



Detweiler Park Master Plan