

MILLTOWN DAM PARK & OPEN SPACE MASTER PLAN

East Goshen, Chester County Pennsylvania

COMMITTEE MEETING #4: Draft Plan Review

Thursday 5.25.2017, 7-8:30 PM East Goshen Township Building 1580 Paoli Pike West Chester, PA Simone Collins Landscape Architecture Princeton Hydro



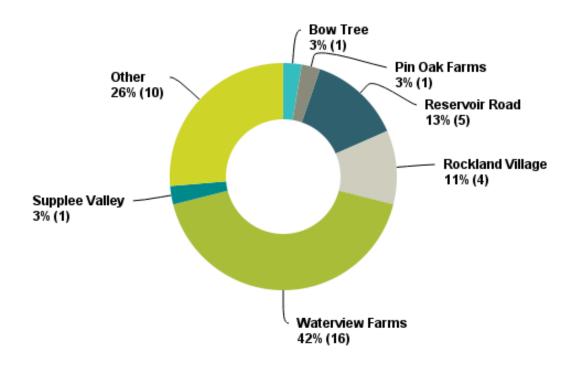
Project Schedule

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XIV.	Meeting	Date & Time	Meeting Subject	
	Milltown Committee Meeting #1	Nov 2, 7:00 pm	Project Introduction / Brainstorming	
	Milltown Public Meeting #1	Dec 14, 7:00 pm Dec 15, 7:00 pm	Project Introduction / Brainstorming	
	Milltown Committee Meeting #2	Jan 11, 7:00 pm	Site Concepts	
1	Milltown Public Meeting #2	Jan25, 7:00 pm	Site Concepts	
ı	Milltown Committee Meeting #3	Feb 21, 7:00 pm	Draft Plan Review	
	Milltown Public Meeting #3	Mar 22, 7:00 pm	Draft Plan Presentation - 60 day review	
	Milltown Committee Meeting #4	<u>May 23, 7:00 pm</u>	<u>Final Plan Review</u>	
	Milltown Public Meeting #4	Jun 20, 7:00 pm	Final Plan Presentation	

39 Respondents

Q2 What is the name of the street / neighborhood / development in which you live?

Answered: 38 Skipped: 1

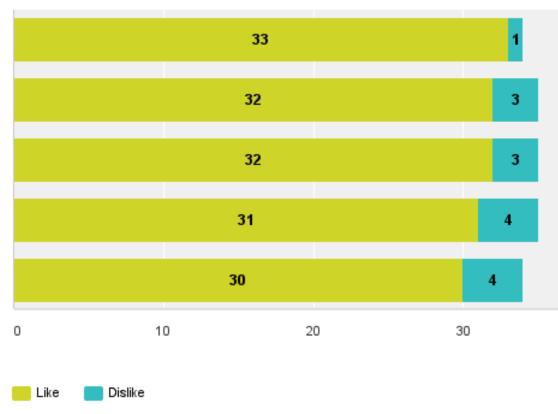


Q5 Please specify which circulation components you like or dislike form the options below:

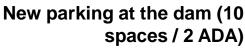
Answered: 36 Skipped: 3



Crosswalk improvement at E.



Q5 Please specify which circulation components you like or dislike form the options below:



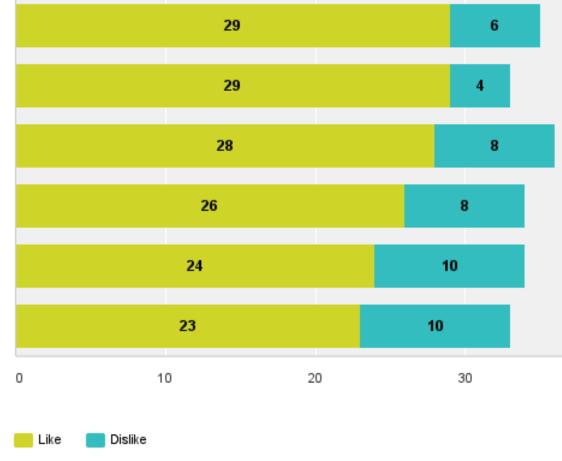
Internal site ADA foot paths

Future sidewalk along E. Strasburg Rd to Lockwood Ln

Future crosswalk and sidewalk along Park Ave

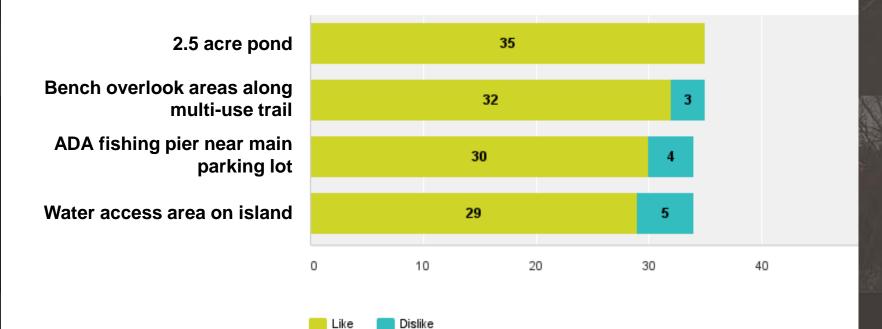
New Parking at Park Ave (5 parallel parking spaces)

Future Multi-use trail south to West Chester Pk



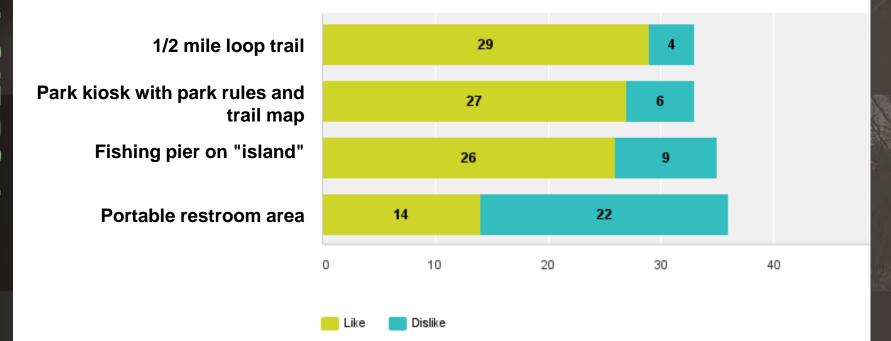
Q6 Please specify which omponents you like or dislike form the options below:

Answered: 36 Skipped: 4

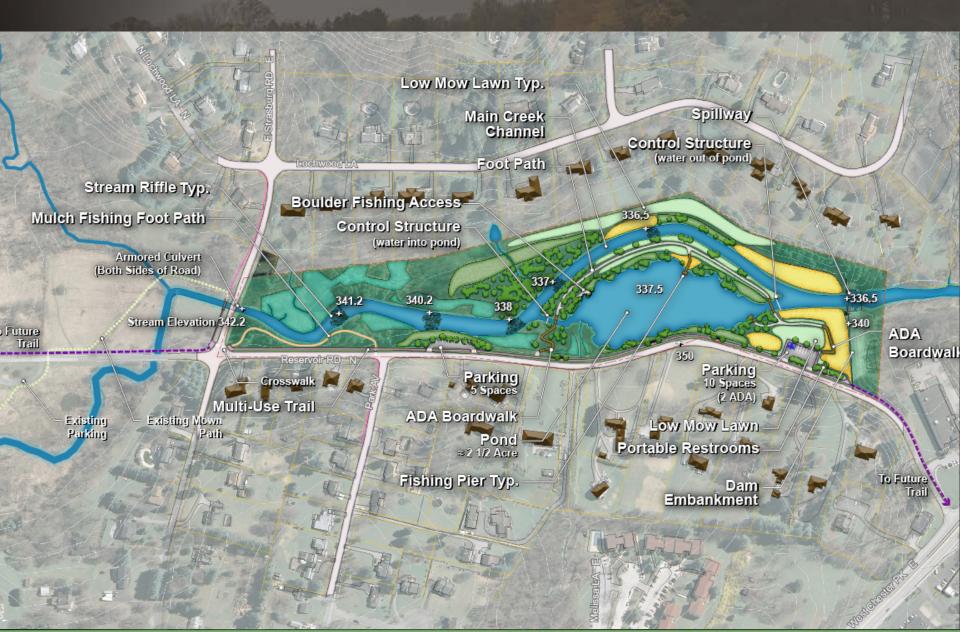


Q6 Please specify which omponents you like or dislike form the options below:

Answered: 36 Skipped: 4



Draft Master Plan



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Draft Master Plan

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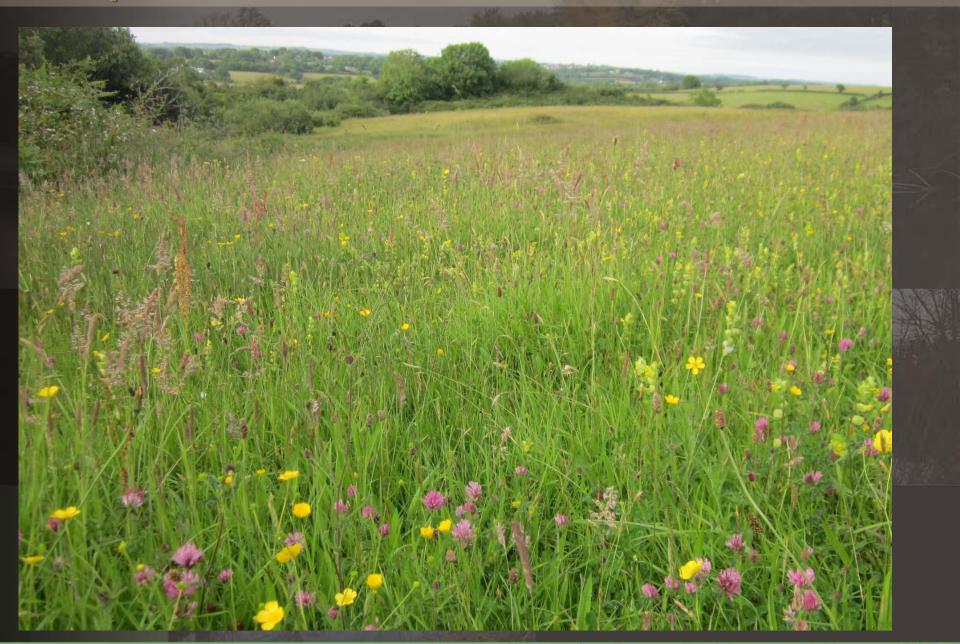
Main Parking Area



Improvements:

- Parking Area
 - 8 reg. spaces
 - 2 ADA spaces
 - Driveway sight lines +250'
- Park Kiosk
 - Rules
 - Trail Map
- Fenced in Portable Restroom Area
- ADA access trail into site
- ADA fishing Pier
- Low Grow Lawn Area
- Low Meadow along Dam

Example Low Meadow



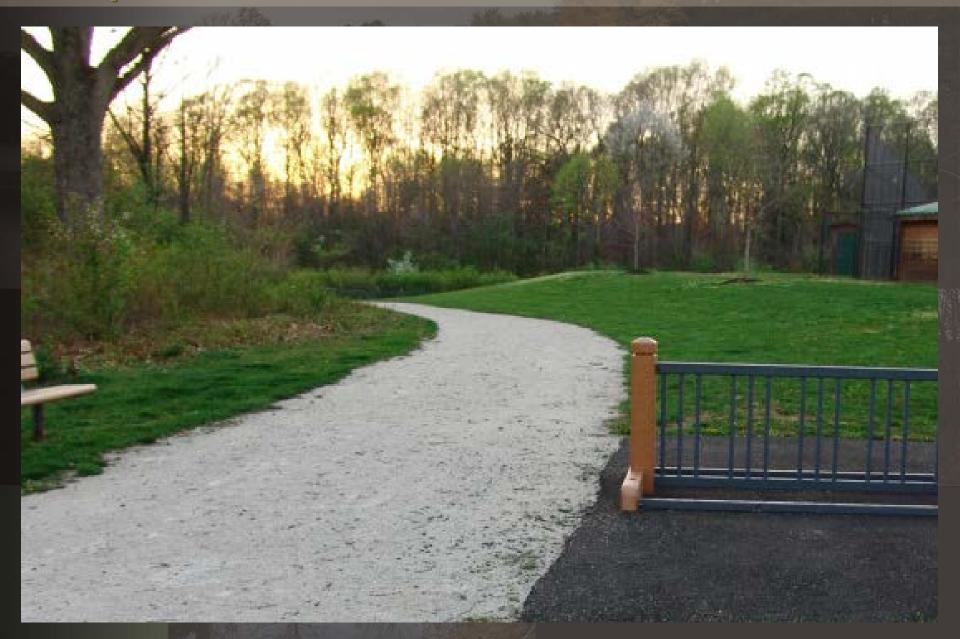
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Example Low Mow Lawn



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Example ADA Trail Surfaces



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Example ADA Trail Surfaces



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ADA Fishing Pier



Pond Area



Improvements:

- 2 ½ Acre PondPond forebay
- ½ Mile loop trail system
- Fishing pier
- Water edge access
- Riparian planting
- Low grow lawn along neighboring properties

Example Multi-Use Trail & Seating Areas



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Example Pond Control Structure – Outfall Weir



Example Riparian Buffer

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Stream Area



Improvements:

- Parking Area
 - One-way
 - 5 parallel spaces
- Fishing stream edge trail
- Stream Riffles
- Armor Culvert at Road

Example Stream Riffle

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Earthen / Wood Chip Fishing Trail



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Future Access North & East



Improvements:

- Crosswalk Improvement
- Trail Improvement to existing Bridge
- Future Sidewalk improvement to Lochwood Lane
- Future Extension
 of Multi Use Trail
 to Suplee Open
 Space Area

Future Access West



Improvements:

 Future Sidewalk improvement along Park Ave

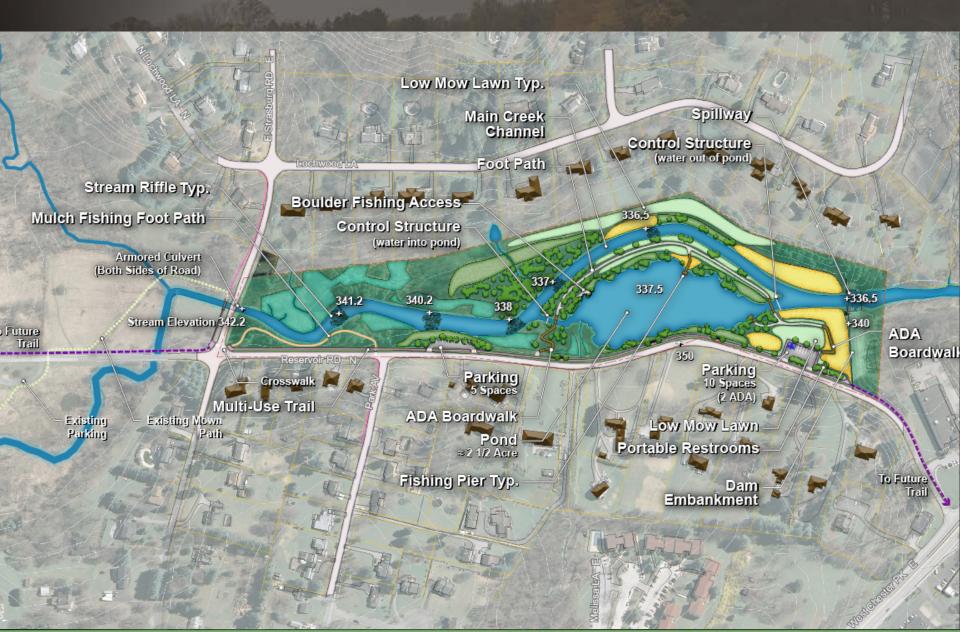
Future Access South



Improvements:

Future Extension
 of Multi Use Trail
 to West Chester
 Pike

Draft Master Plan



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ADA Access ADA Accessible Foot Path **ADA Boardwalk ADA Accessible Boulder** Fishing Access ADA Access to Existing Bridge Reservoir RD N ADA Boardwalk **Parking** ADA Accessible (2 ADA Spaces) Fishing Piers ADA Accessible 1 ADA Accessible Multi-Use Trail Portable Restroom

Project Phasing



Phase

Site Preparation:

- Dam work;
- Stream riffle construction;
- Armor culvert at E Strasburg Rd;
- Site grading to create the pond, island, embankment for parking; and
- Construction of the pond.

Site Improvements:

- · Construct main parking area; and
- Develop 2 boardwalks, island foot path, and a portion of the multi-use trail.

Project Phasing





Planting Improvements:

- · Meadow establishment;
- · Shrub plantings; and
- · Forest restoration.

Project Phasing





Site Improvements:

- · Construct secondary parking area;
- Extend multi-use trail to E Strasburg Rd;
- Crosswalk improvements at Reservoir Rd and E Strasburg Rd intersection;
- Construct 5 ft wide trail to existing pedestrian bridge; and
- Develop fishing access path along Chester Creek.

Project Cost

Estimated Costs of Development			
Phase 1 Project Costs	\$	963,771	
Phase 2 Project Costs	\$	350,546	
Phase 3 Project Costs	\$	76,964	
Total Costs of Development	\$	1,391,280	

Phase 1 Estimated Costs of Development		
Work Item		al Cost
Demolition and Site Preparation	\$	496,649
Reservoir Road Mixed-Use Trail (South)	\$	49,890
Reservoir Road Parking Area, 10 Spaces (South)	\$	26,170
ADA Asphalt Walkway	\$	2,461
Stone Dust Foot Paths, 4"Depth	\$	12,863
Structures- Bridges & Boardwalks	\$	131,200
Phase 1	\$	719,232
General Project Cost (Mobilization, E&S, Construction Surveying)	\$	50,346
Construction Contingency (15%)	\$	107,885
Design and Engineering (12%)	\$	86,308
Phase 1 Project Costs	\$	963,771

Project Cost

Phase 2 Estimated Costs of Development		
Work Item	Т	otal Cost
Structures- Fishing Piers	\$	78,400
Planting	\$	183,201
Phase 2	\$	261,601
General Project Cost (Mobilization, E&S, Construction Surveying)	\$	18,312
Construction Contingency (15%)	\$	39,240
Design and Engineering (12%)	\$	31,392
Phase 2 Project Costs		350,546

Phase 3 Estimated Costs of Development		
Work Item	T	otal Cost
Reservoir Road Parking Area, 5 Spaces (North)	\$	17,472
Reservoir Road Mixed-Use Trail (North)	\$	38,436
Wood Chip Foot Paths, 5' Wide	\$	1,528
Phase 3	\$	57,436
General Project Cost (Mobilization, E&S, Construction Surveying)	\$	4,020
Construction Contingency (15%)	\$	8,615
Design and Engineering (12%)	\$	6,892
Phase 3 Project Costs	\$	76,964

60 day Review Period - Please submit written comment to:

Rick Smith, Manager

E-Mail: rsmith@eastgoshen.org

Township Project Website:

https://eastgoshen.org/about-us/milltown-dam

Tonight's Plans and Presentation:

https://eastgoshen.org/boards/milltown-dam-committee

Web Survey

https://www.surveymonkey.com/r/MTDraftPlan

Please Share links with Friends and Neighbors

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Project Team

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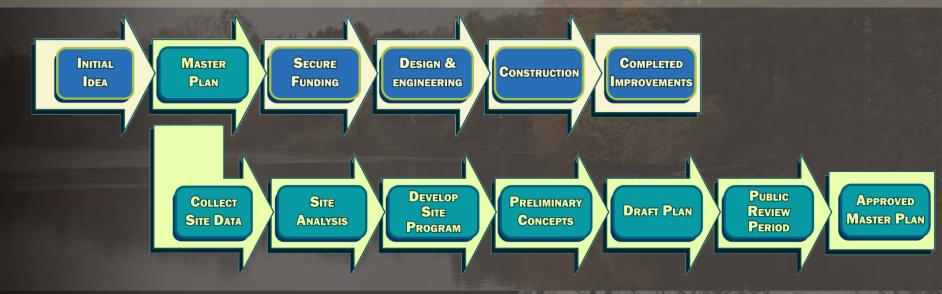
Peter M. Simone, FASLA, RLA
Project Principle
Sarah Leeper, RLA
Project Manager
Melisa Barley, Landscape Architect
Project LA

Princeton Hydro

Geoffrey M. Goll P.E.

Civil Engineer – expertise in dam removal for dam safety compliance, fish migration, floodplain reconnection, and habitat restoration.

Master Plan Process



Transparent Public Process:

- 4 public meetings
- 4 committee meetings
- 3 Web surveys

"All voices are heard and all ideas are honored"

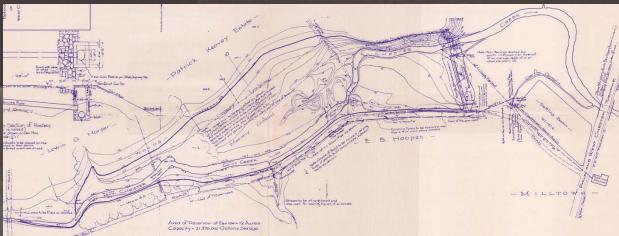
Project Background

- The Milltown Reservoir is currently classified as a passive recreation area.
- The Committee has been asked to work with the consulting team to develop a park master plan and provide a park master plan recommendation to the Board of Supervisors.
- Board of Supervisors will make the final decision on the approval of the park master plan.
- The Milltown Dam site has tremendous opportunities.

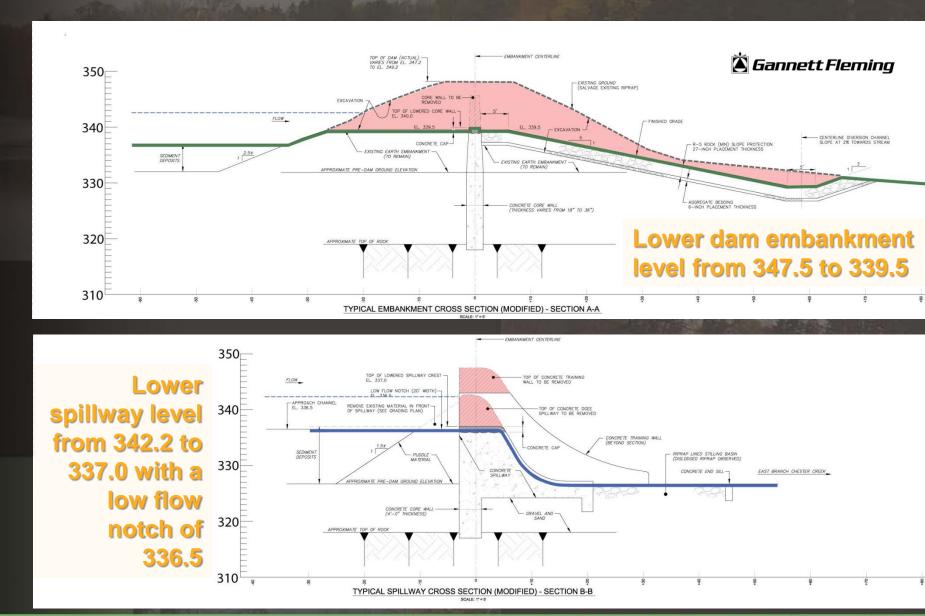
Site History

- 1920 Dam is constructed.
- 1965 Waterview Farms Subdivision constructed
- 1981-1986 Dam classified as unsafe and was repaired.
- 2011 Dam classified as unsafe under new DEP standards
- Various options for dam considered included:
 - Improving the spillway;
 - A partial breach of the dam; and
 - A full breach of the dam.
- 2016 On June 28th the Board of Supervisors voted to partially breach the dam.





Partial Dam Breach Concept



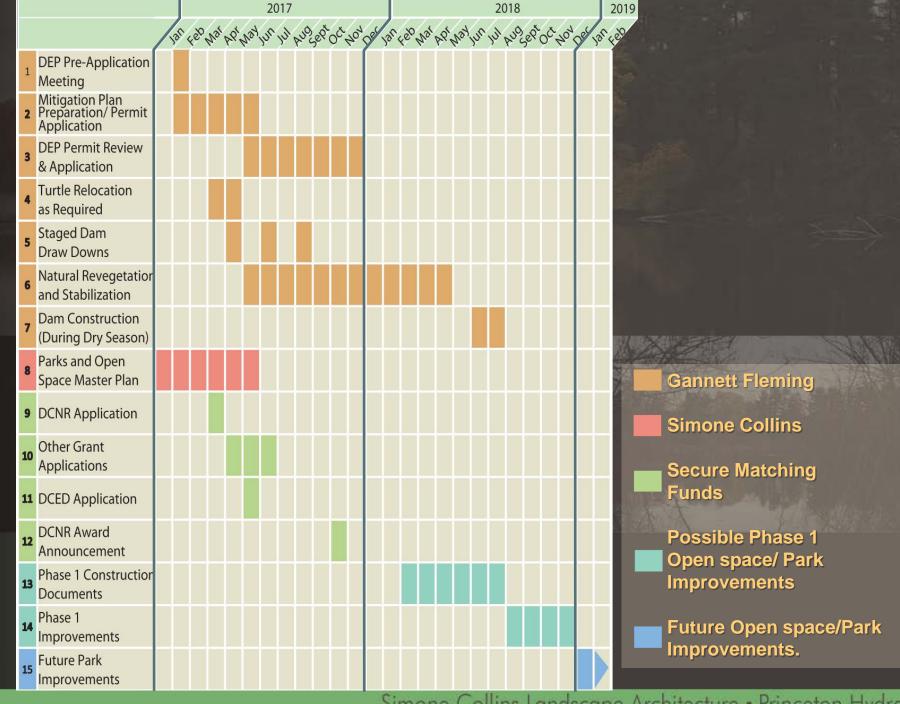
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Partial Dam Breach Concept - Before



Partial Dam Breach Concept - After





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Open Space Plan & Central Chester Trail Plan

Existing Features

Existing Trails

PA Bike Route L

T Existing Trailhead

P Existing Trail Parking

Growth Centers

Intermodal Stop

East Goshen Open Space

HOA / Private Recreation

Schools

Proposed Features

Bike Lane

Shared Roadway

Multi-Use Trails

Restricted-Use Trails

Bicycle Boulevard

Signed Bike Route
 Priority Corridors

Bike Rack

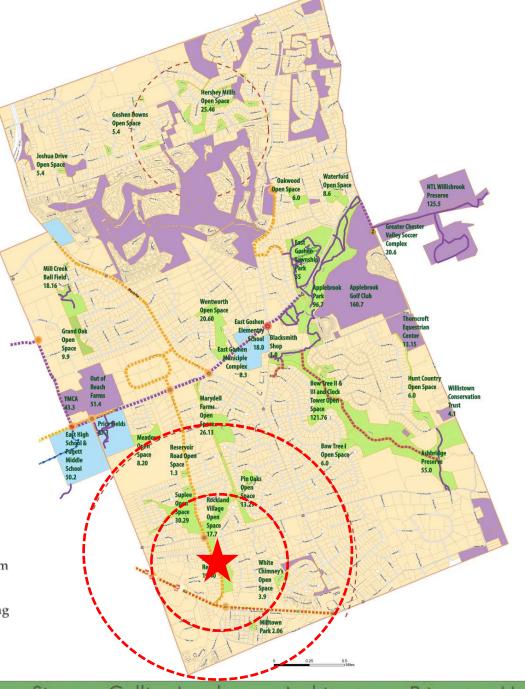
P Trail Parking

X Traffic Calming Table

Bike Signage Improvem

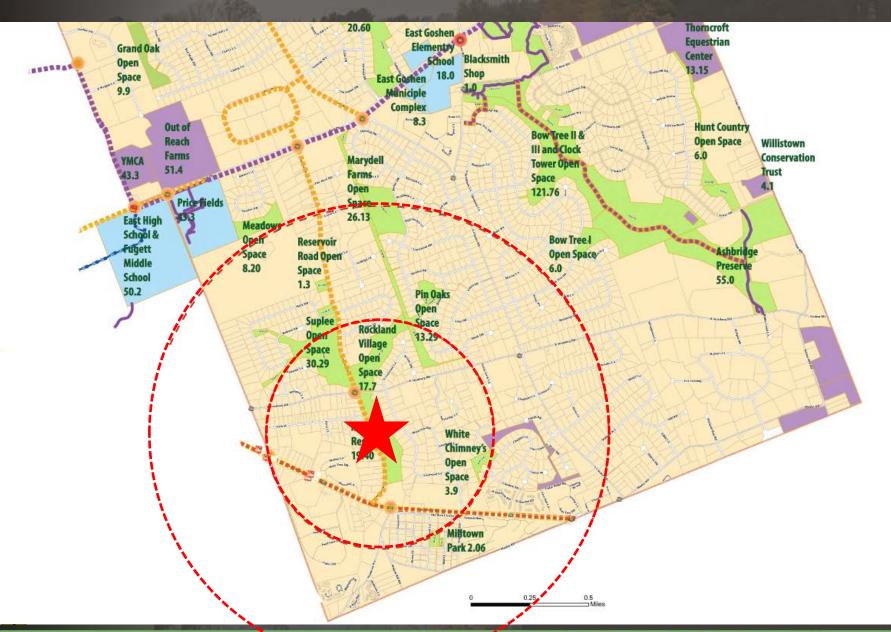
At Grade Trail Crossing

Signalized Crossing



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Open Space Plan & Central Chester Trail Plan



Views from Strasburg Road



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Views from Strasburg Road

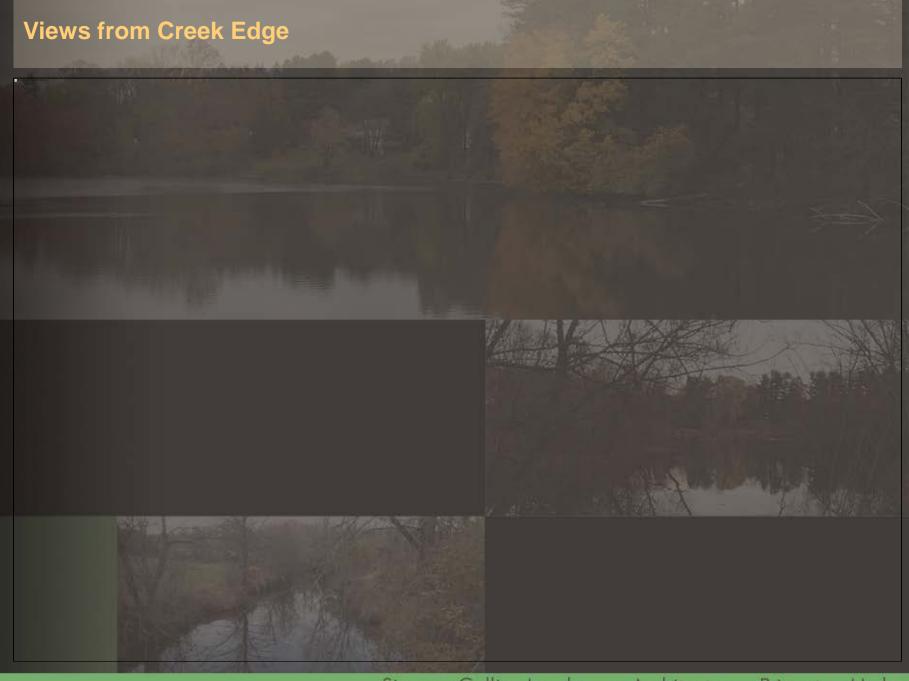


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Views from Strasburg Road



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Views from Reservoir Road



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Views from Dam Embankment



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Views from Dam Embankment



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Views from Lochwood Lane



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Views from below Dam



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GOALS

Goals and Priorities for the Project: Initially broad, then specific: "Develop a Park Master Plan" or "Bring People into the Park"

Facts: Existing land use, site conditions, outstanding natural resources, adjacent properties, existing trails, nearby open space sites, partners.

FACTS

CONCEPTS

Ideas for Attaining Project Goals: Can be basic needs "Provide Restrooms" or larger ideas "Link to key Nearby Sites", or "Provide Memorable Play Experiences" "Create Destinations within the Park"

Goals Were expanded, revise & add new goals throughout the public participation process.

- Engage in an open and transparent exchange of ideas where all ideas are considered and where everyone's voice can be heard throughout the design process.
- Foster ecological sustainability through plant and animal diversity and by employing best practices in landscape and park design.
- Protect and preserve the privacy of adjacent and nearby residences through proper setbacks, screening and other techniques.
- Create landscapes that are low maintenance and that will create new cultural landscape values in each surrounding neighborhood.
- Develop realistic completion time frames for project benchmarks
- Maximize open water views.
- Create a world class passive recreation amenity.

Public Brainstorming

GOALS:

- Open and transparent design process
- Protect and Preserve Privacy
- Foster ecological sustainability
- Create low maintenance landscape

FACTS:

- Property
- Privacy
- Turtles
- Unobstructed peaceful large water view
- Insect Issues with wetland?

What Are We Losing?

- Wildlife
- Bald eagle
- Long views
- Fishing
- Hockey
- Ice skating

- Open water
- Joy

CONCEPTS:

- Scenic views from the road
- Water access
- Ice skating
- Fishing
- Buffer planting (Lochwood Lane)
- Open lawn
- World class facility
- Pond(s)
- Options for mowing
- Willow planting
- review DVRPC plan
- Wetland fore-bay
- Pond maintenance access
- Fencing
- 2 acre wetlands
- *Maximize water*
- Walking paths
- Natural stream banks

- Fish habitat
- Homeless
- Route 3 to Strasburg
 Road bike way
- Trash and litter concern
- Nuisance in park concern
- No trails
- No fencing
- Cross walks
- Mow near creek
- Please don't litter sign
- Bike trails
- Sidewalk from Strasburg Road to Lochwood Lane
- Use spoils to form trail bench
- Review Comprehensive plan requirements
- Money/ budget
- Keep trail to west
- Walking bridge on south at Strasburg Road
- Use existing bridge

Public Survey #1

55 Respondents

Question 9 – What do you value the most in the existing site:

Unobstructed scenic water views; and Habitat for plants and animals ranked most important

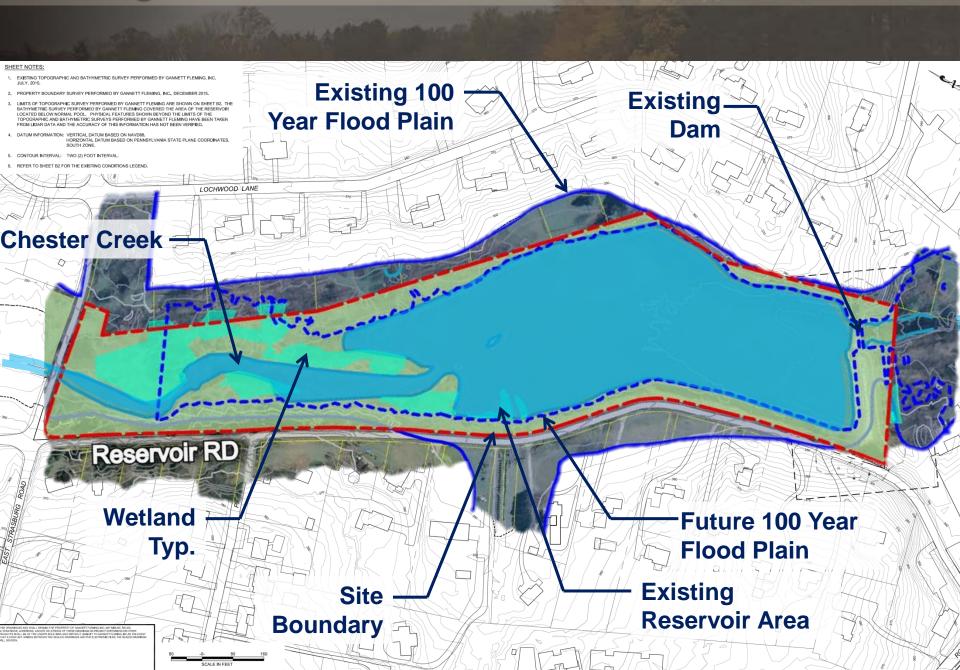
Question 10 – What do you want to see

#1 - Water Features such as pond(s) for fishing / scenic value

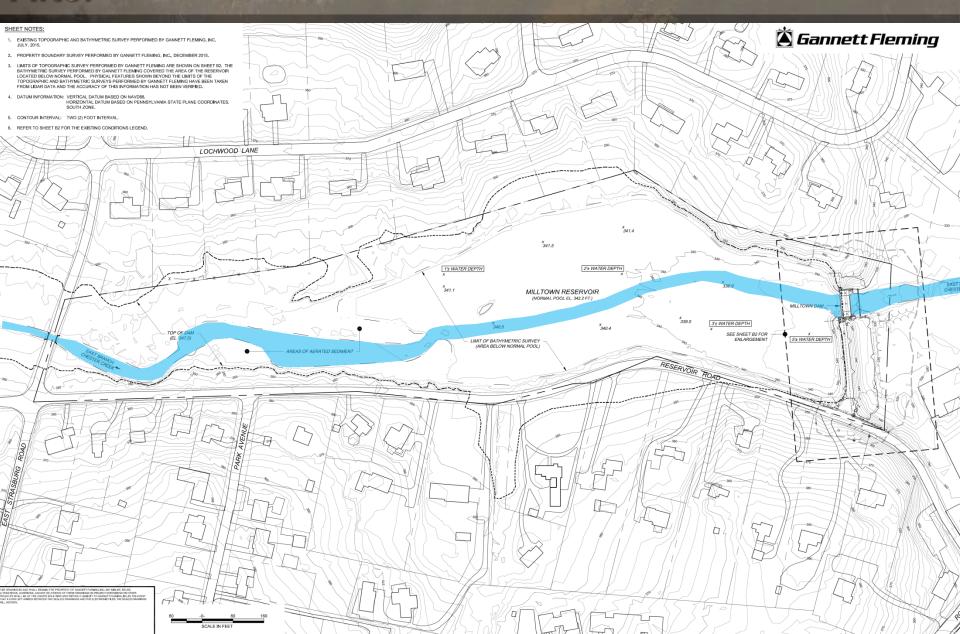
High Ranking:

- More trees in area
- Small parking area to access trails
- Walking trail(s)
- Bird houses and bat boxes
- Walking & Biking Trails

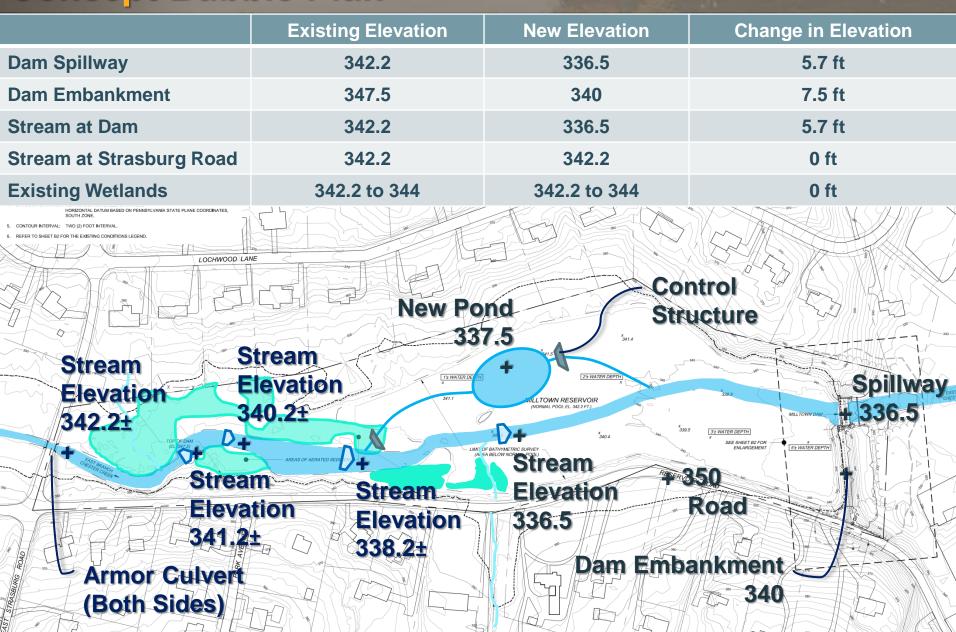
Existing Conditions Plan



Partial Dam Breach Concept – Stream Condition After



Concept Bubble Plan



Concept Elements:

Various design elements are incorporated into each concept. The following elements will be reviewed to understand the unique quality and benefits of each element and identify the objectives for including them in the concept plans.

- Pond
- Streams
- Riparian Buffer
- Low Mow / No Mow Lawn
- Meadow
- Wetlands

CONCEPTS Plans

Concept 1

- Small Habitat Islands
- 3 Acre Pond

Concept 2

- Large Island
- Reforestation
- 2 Acre Pond

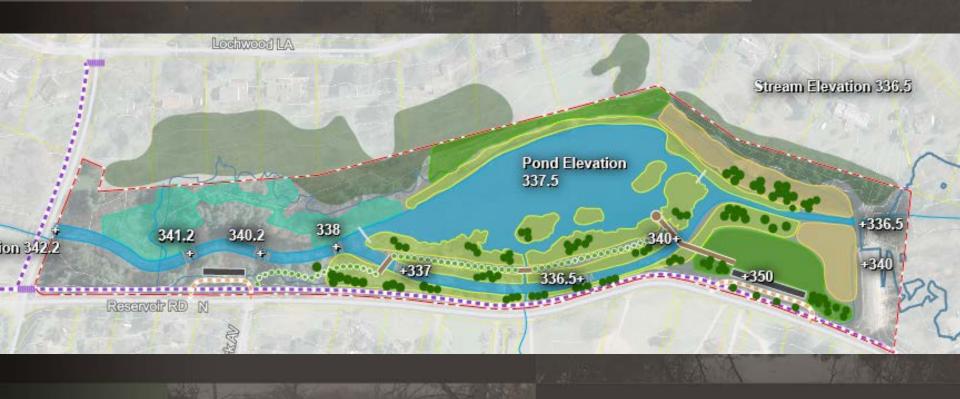
Concept 3

- Multiple Ponds
- 1.5 Acre Ponds



CONCEPTS Plans

Concept 1: Was the most popular plan from the survey and Public Meeting Vote



Public Survey #2

79 Respondents

Question 5 - Trails:

- Overall support for trails
- Majority of respondents focused on site trails and local neighborhood access to site.

Question 6 – Current Walking / Biking trends:

- Very little use.
- Reservoir Road used the most.

Question 7 – Water Features:

- Generally positive response to all features.
- Fishing access ranking the highest

Question 8 – Types of Restoration Plantings:

Generally positive response for all types.

Question 10 – Tradition Park Amenities:

Generally positive response for all items.

Contact Info: Please Copy All Parties

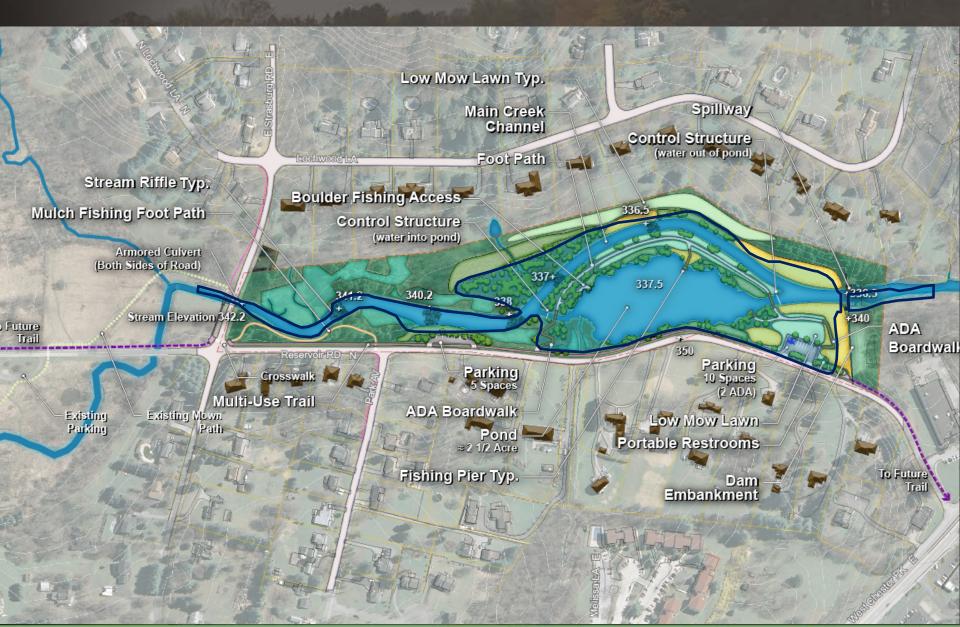
Sarah Leeper, Project Manger Simone Collins Landscape Architecture (610) 239-7601 E-Mail: sleeper@simonecollins.com

Peter Simone, Project Principle Simone Collins Landscape Architecture (610) 239-7601 E-Mail: psimone@simonecollins.com

Rick Smith, Manager East Goshen Township (610) 692-7171

E-Mail: rsmith@eastgoshen.org

Draft Master Plan



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