

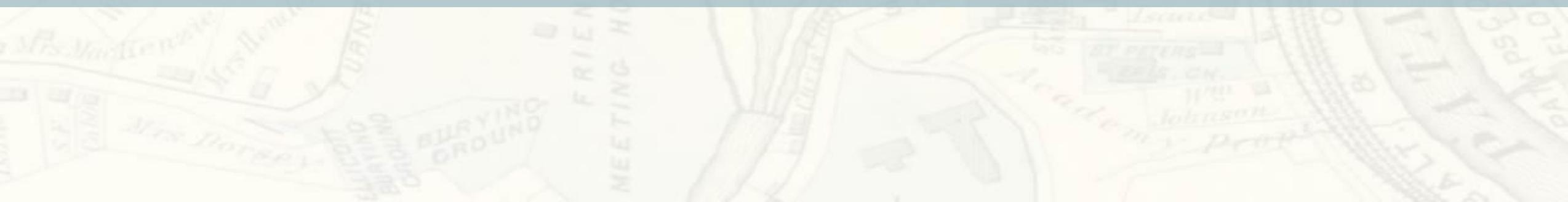
Ellicott City Watershed Master Plan

Workshop #2
July 11, 2017

PEA | Mahan Rykiel | Arnett Muldrow | RK&K | Land Studies | SouthCoast Consulting | Preservation Consulting



JON WEINSTEIN, COUNTY COUNCILMEMBER



Purpose of Tonight's Meeting

Transition from late-stage recovery and intensive study to active planning

- *Communicate process for addressing **questions/comments** from **May 31***
- *Understand how key findings from **Hydrology & Hydraulic Study (H&H)** might **inform the master plan** process*
- *Address and **confirm stakeholder and community input/ideas** to date to guide master plan team for **November/January Scenarios and Recommendations***
- ***Delve deeper into significant opportunities** as flood mitigation is addressed and prioritized*
- *Identify **additional considerations** for the master plan process*

Agenda and process for this evening

1. Presentation

- Introductions
- Framing the Master Plan
- Workshop I Input
- Application of H&H to MP

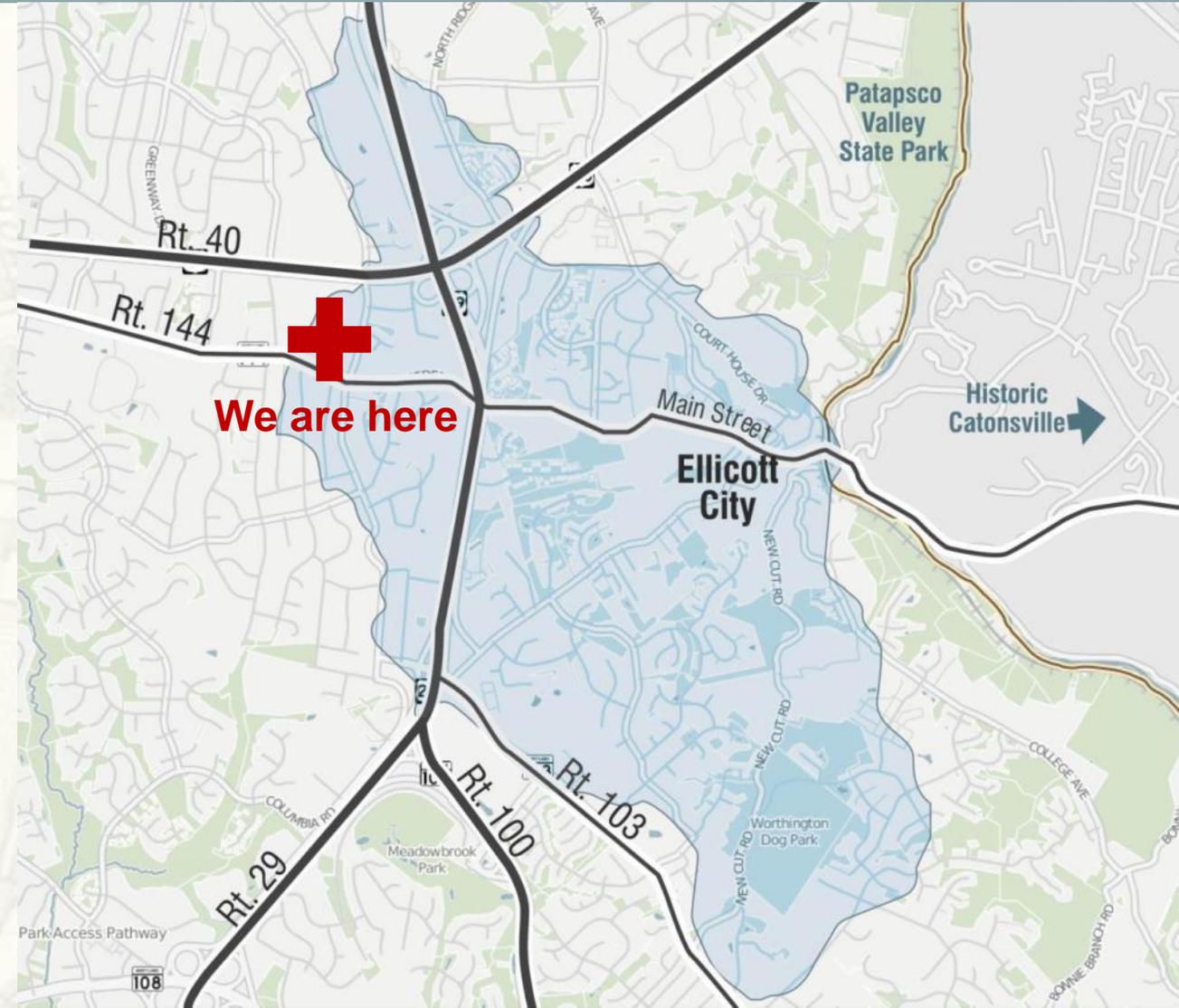
2. Table Exercises

- Confirming Ideas
- Discuss several specific topics in more detail
- Report back

3. Community Marketing

4. What's Next?

*Comment form to record your questions and observations as you listen to the presentation



Keypad Polling

USING YOUR KEYPAD



- Press the button of your choice
- When you get the green light, your vote has been received
- If you make a mistake, just vote again
- For multiple-choice votes, enter all choices, one after the other, with a green light after each
- For “10”, press 0

What is your relationship in the Historic Ellicott City Watershed? (press all that apply)

39% 1. I live there

29% 2. I work there

16% 3. I own a business there

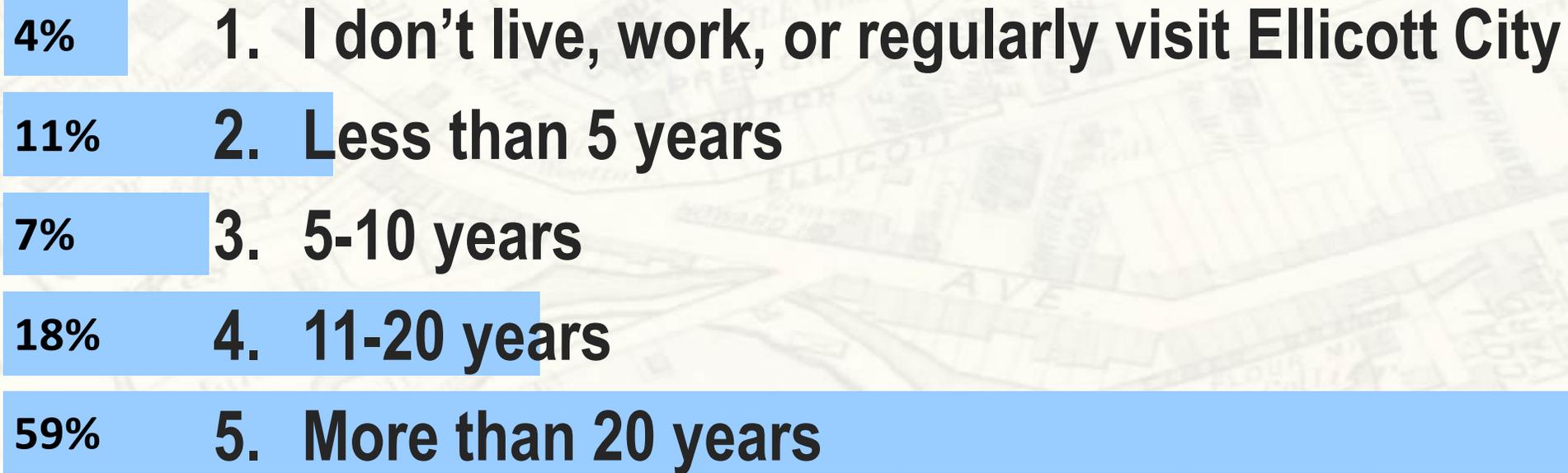
74% 4. I shop there

14% 5. I worship there

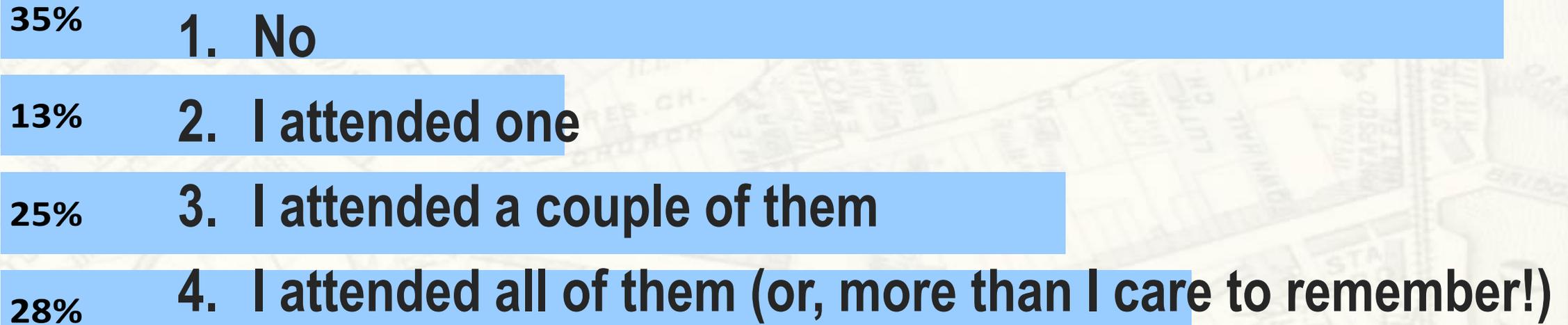
33% 6. I own property there

41% 7. Other

How long have you lived, worked, or regularly visited (shopped/dined/worshipped) in Ellicott City?



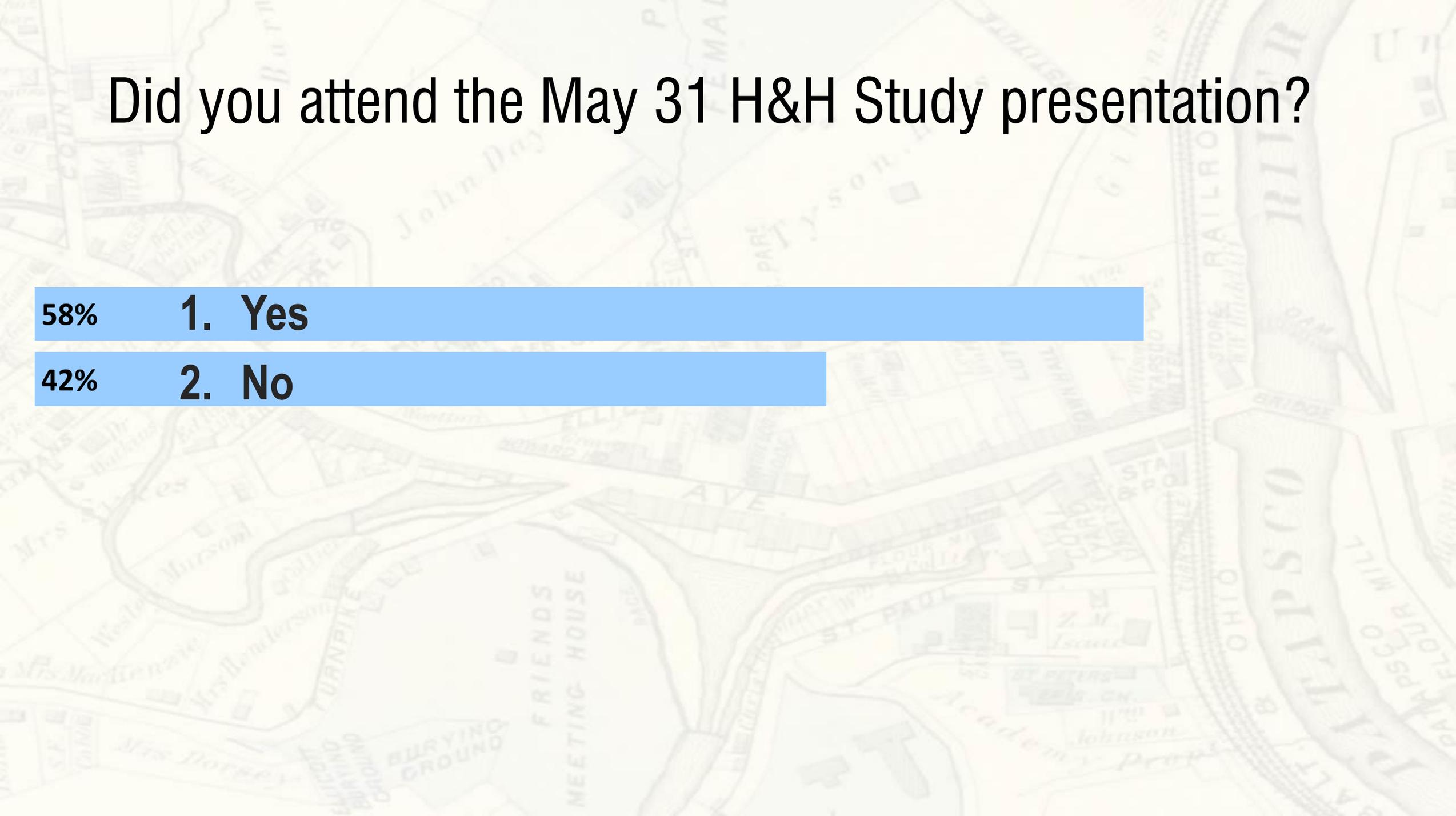
Did you participate in the fall Recovery meetings with us?



Did you attend the May 31 H&H Study presentation?

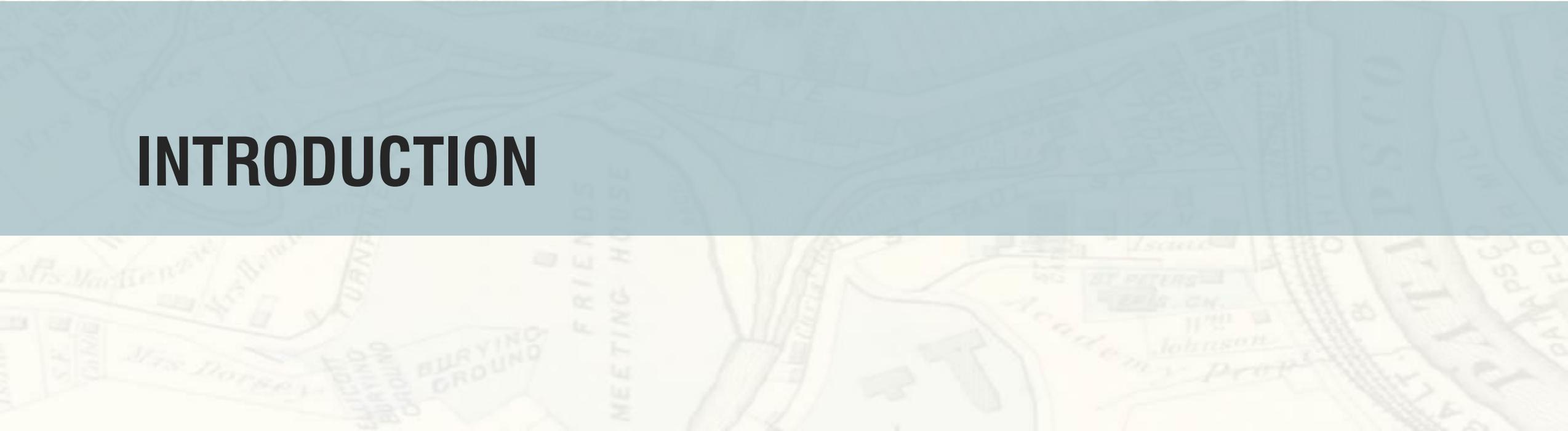
58% 1. Yes

42% 2. No





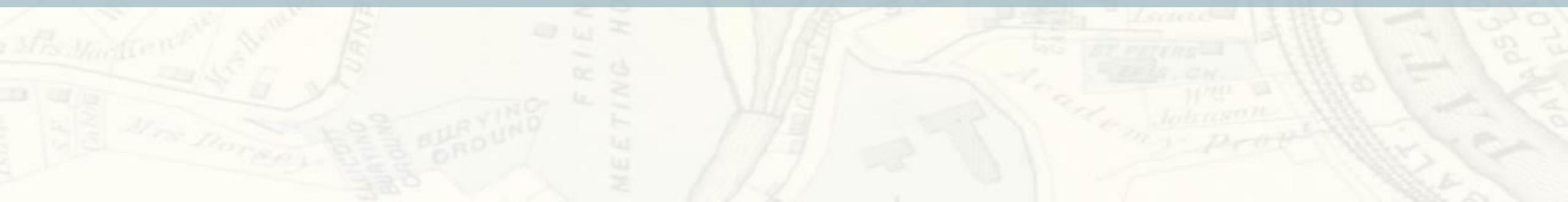
INTRODUCTION

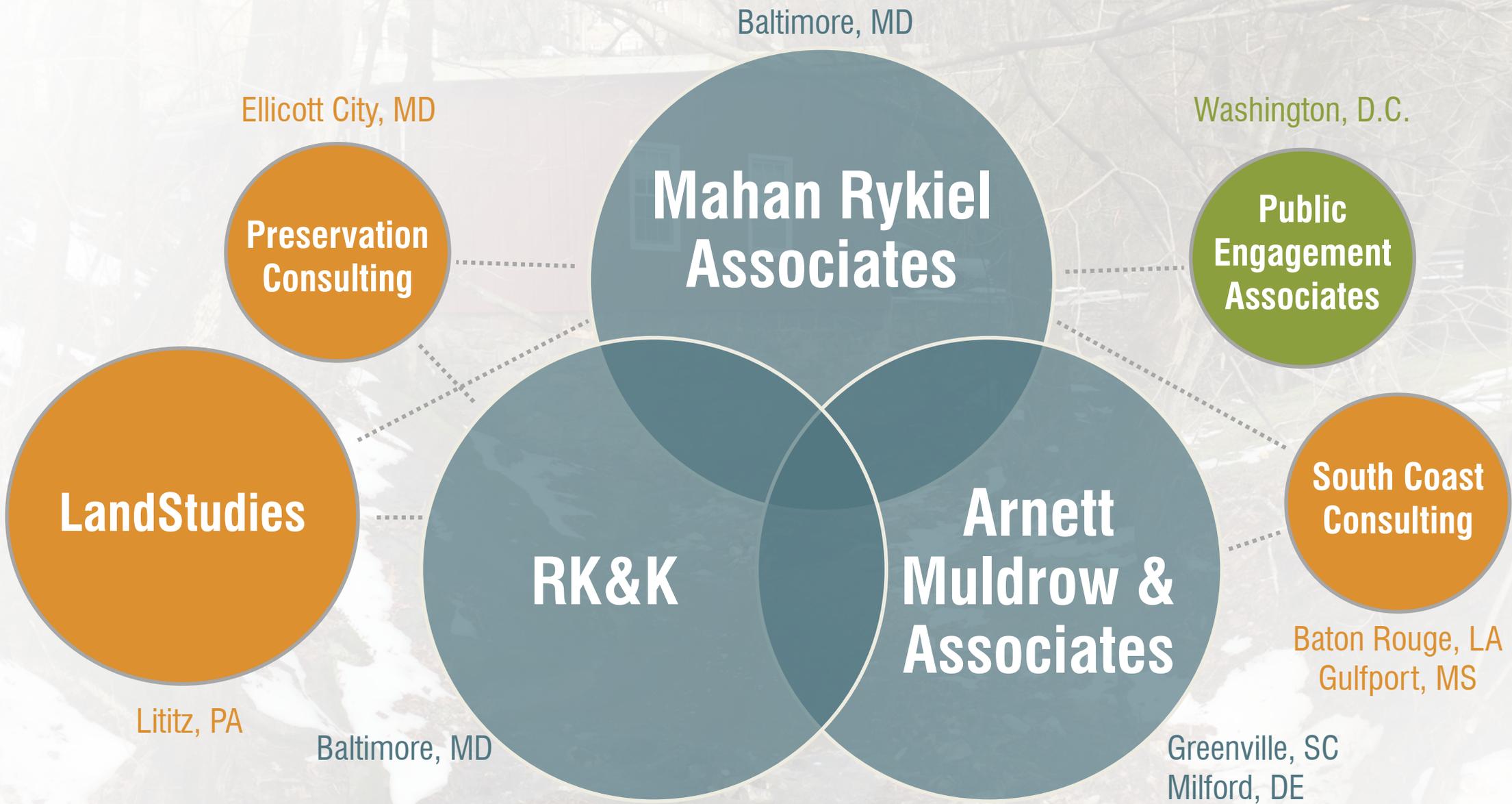




A Master Watershed Plan to Rebuild HEC into a Resilient City for the Long Term

TOM MCGILLOWAY, MAHAN RYKIEL

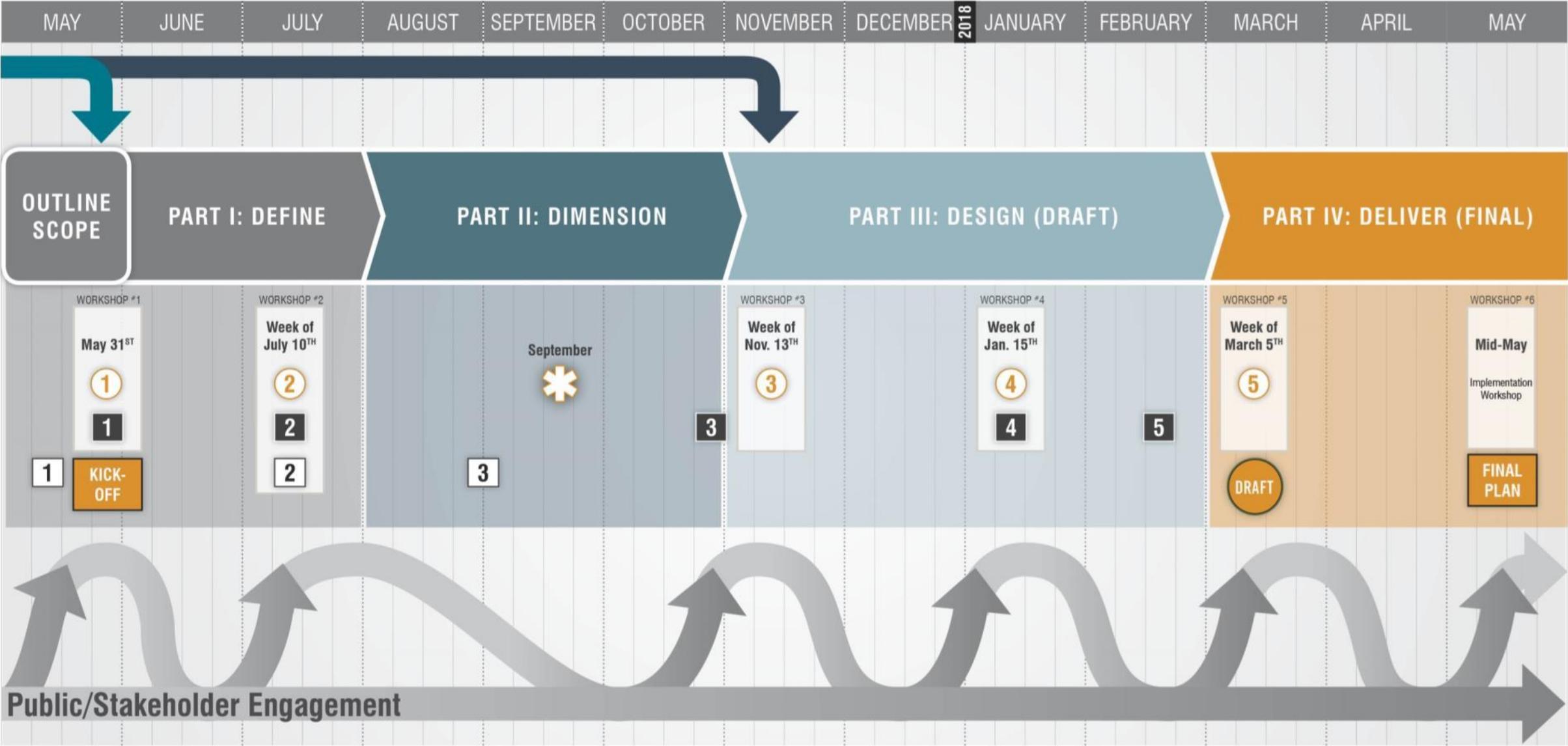




CORE TEAM

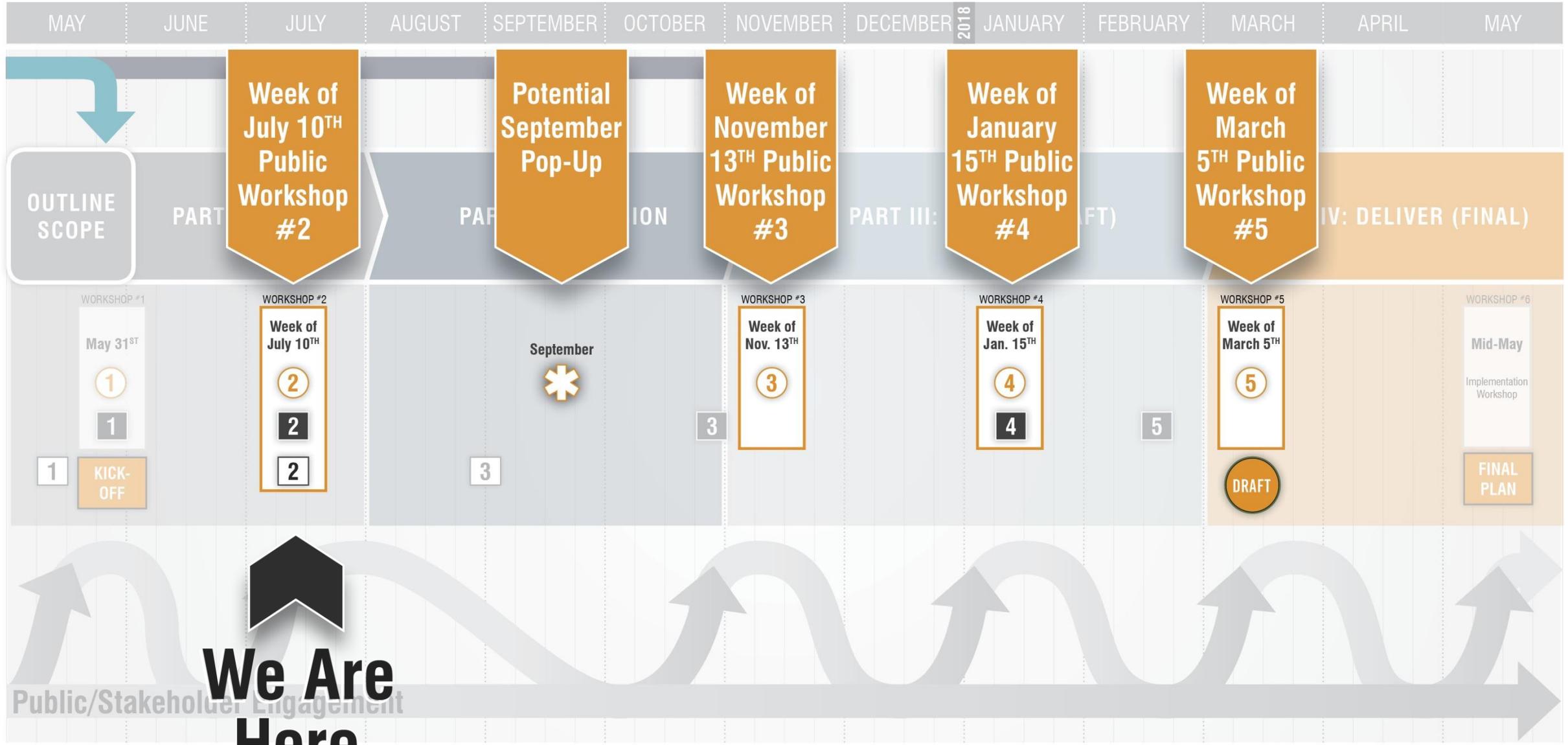
Process Diagram

-  Public Meeting
-  Technical Team Meeting
-  Army Corps Study
-  MPAT Meeting
-  Special Pop-Up Engagement
-  McCormick Taylor H&H Study



Upcoming Input Opportunities

-  Public Meeting
-  Technical Team Meeting
-  Army Corps Study
-  MPAT Meeting
-  Special Pop-Up Engagement
-  McCormick Taylor H&H Study

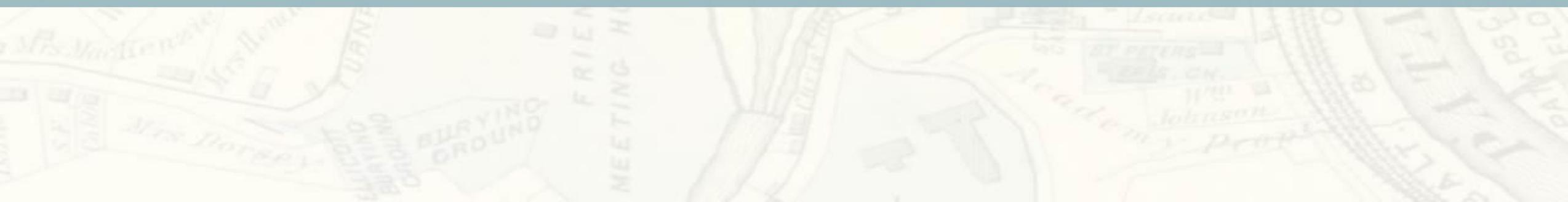


We Are Here

Public/Stakeholder Engagement



FRAMING THE MASTER PLAN

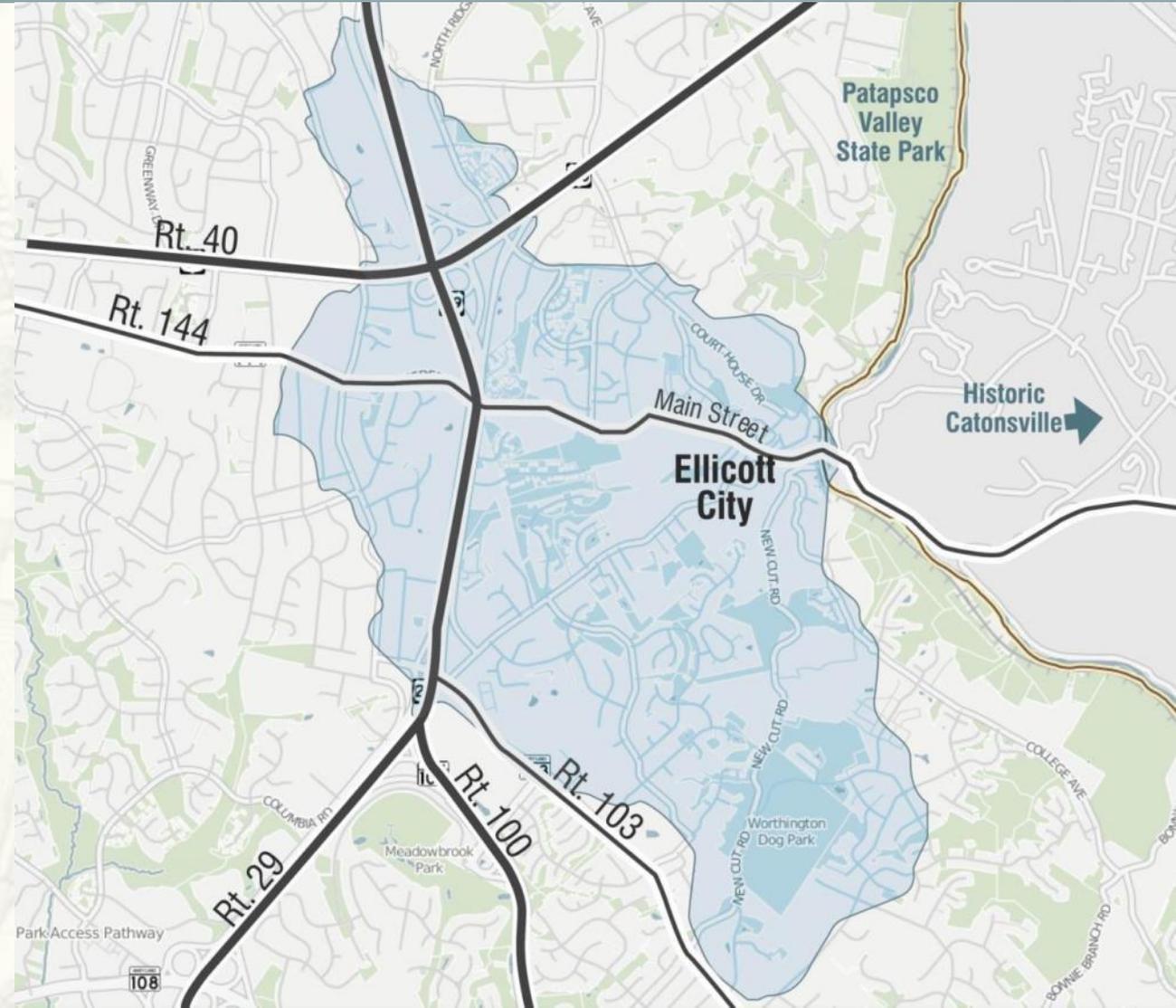


Framing the Master Plan

Scope: Integrated Approach to Building Resiliency and Reducing Risk over the Long-Term

- Physical Planning | Land Use | Zoning
- Urban Design | Placemaking | Parks
- Transportation | Parking
- Infrastructure Improvements | Stormwater Management
- Economic Development | Community Marketing
- Funding Strategies | Implementation

Informed by CAG, Hydrology and Hydraulic Study (H&H), and other plans/studies



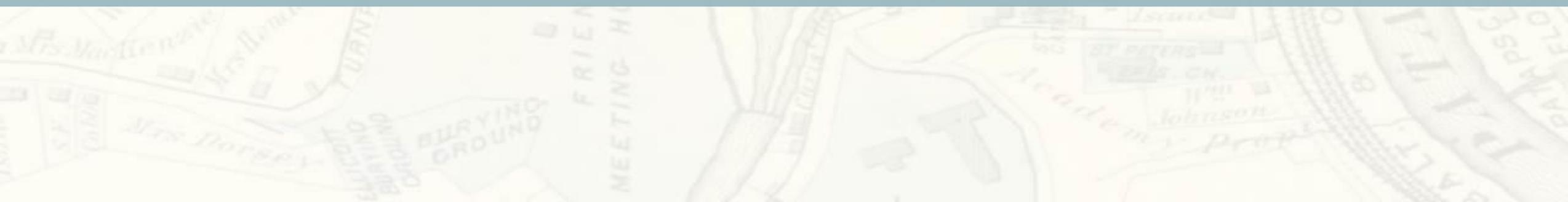
Framing the Master Plan

The Master Planning Process is:

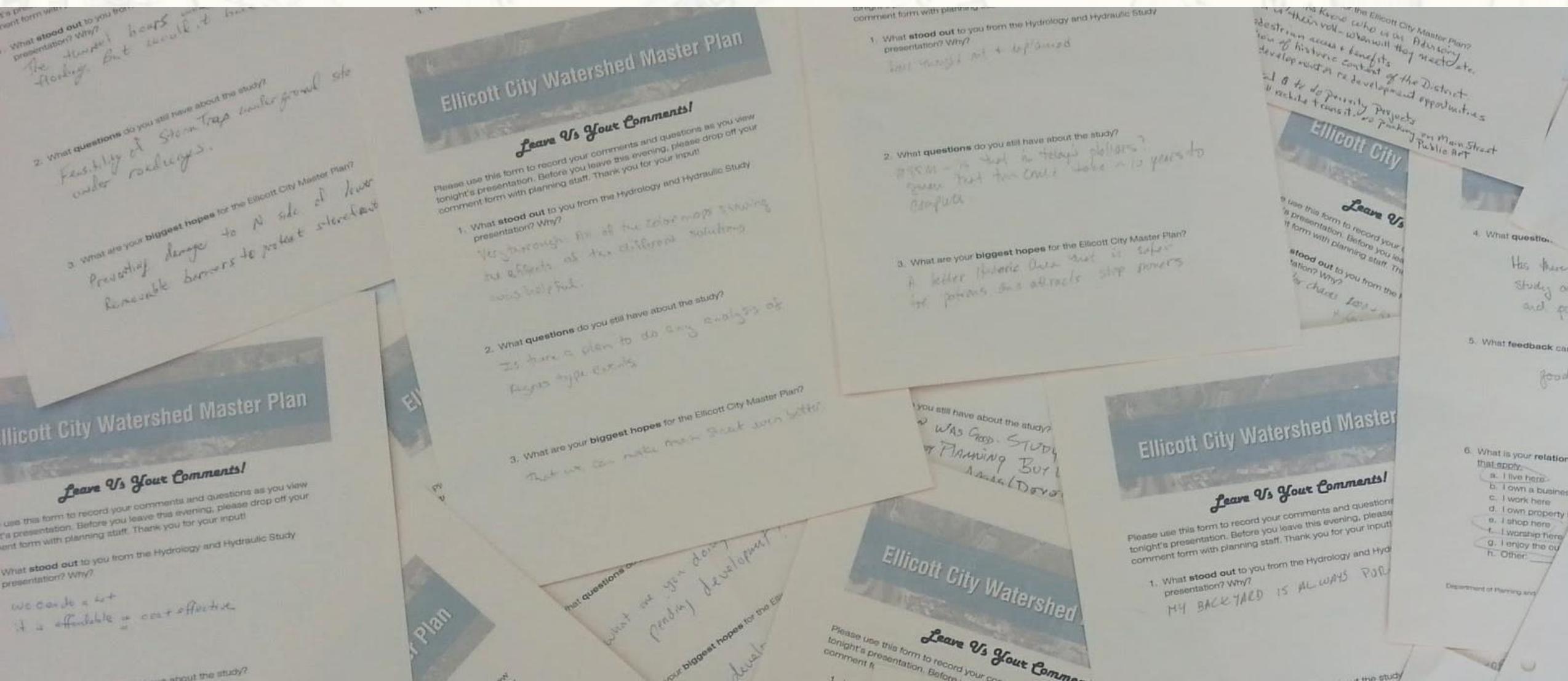
1. *An On-Going Process*
2. *Building Upon Efforts to Date*
3. *Seizing the Opportunity to Make Ellicott City Better*
4. *Focused on Implementation – Balancing Short and Long-Term Goals*
5. *Developing a “Game Plan”- Using the H&H Study (and other studies) as a Tool*



WORKSHOP 1 (MAY 31) INPUT



Workshop 1 Input



Workshop 1 Input

H&H Study

- *Responses to comments/questions will be posted to website in near future*

Master Plan

- *Some responses this evening*
- *Some received as input for consideration throughout process*
- *Most responses provided as information is available to share in **November, January and March Workshops***

Workshop 1 Input

Master Plan Comments

- ***Spend less time presenting and allow more time for discussion.***
- *How will the master plan prioritize SWM improvements?*
- ***Lot D was not included as a location for a possible mitigation project, is this a opportunity for a master plan project?***
- *Timeline for implementation of mitigation projects?*
- ***Impact of development on the watershed: what can be done through the masterplan to minimize and reduce the impact of development?***

Workshop 1 Input

Master Plan Comments

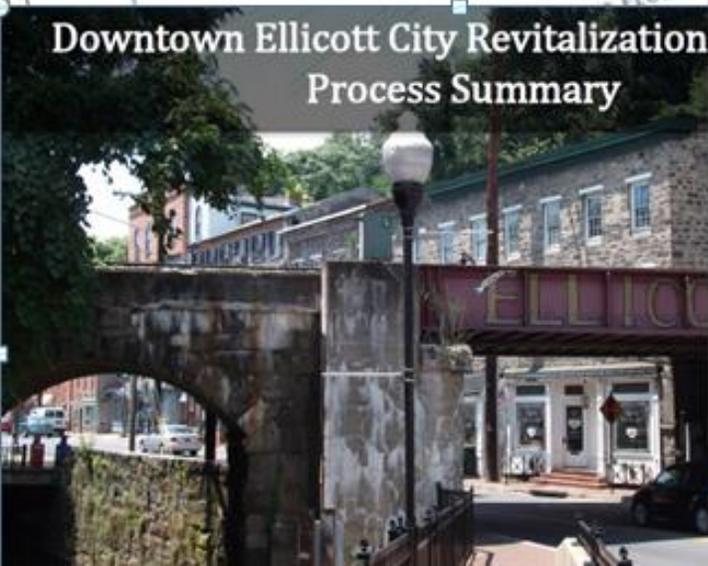
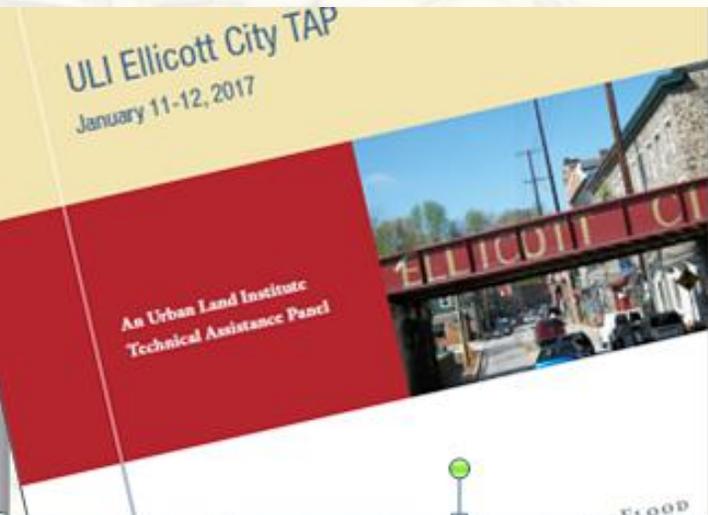
- ***Will rocks and debris be removed from river channels to promote stream flow?***
- ***What else goes into the master plan besides watershed study?***
- ***Are storms becoming more intense recently? Or is recent flooding due to development or land cover changes to the watershed?***
- ***Underground the overhead electrical on Main St.?***
- ***Can parking be removed from Main St to prevent cars from becoming “debris” and trapping people in them?***
- ***Does the masterplan involve stream geomorphologists and ecologists?***



CONFIRMATION OF IDEAS/RECOMMENDATIONS



Confirmation of Ideas



rECOvery Community Meeting #4 Rebuilding and Historic Preservation Final Report

December 10, 2016

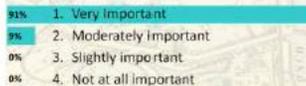
Table facilitation during the meeting

On December 10th, residents, community members, and stakeholders of the Greater Ellicott City area met at Roger Carter Community Center to: engage in community dialogue, learn from a presentation by an expert from the City of Annapolis, and share ideas for rebuilding a stronger and more resilient Ellicott City. This meeting was the last in a series of four. The meetings all focused on rebuilding with an emphasis on resilient infrastructure and flood mitigation. This meeting had a special additional focus on historic preservation.

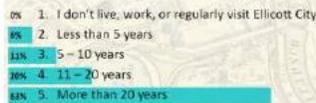
Throughout the evening, participants were able to share their thoughts and feelings on the recovery process and learn about the County's response and the process moving forward. Participants engaged in facilitated group discussions and used keypad polling to provide instant feedback.

Polling Results:

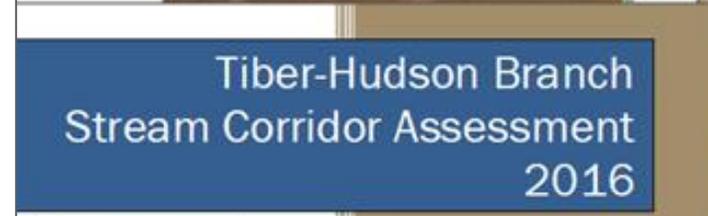
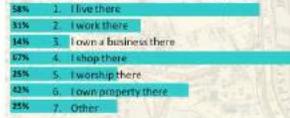
How important is it to you to rebuild Old Ellicott City?



How long have you lived, worked or regularly visited (shopped, dined, worshiped) in Ellicott City?



What is your relationship to Ellicott City? (press all that apply)



Point # 101
Location: 39.2477190, -76.791000
Description: Railroad Crossing at beginning of study area.



Rebuilding

- **Parking** (*structure, enforcement, shuttle, etc.*)
- **Sidewalks** (*materials, crosswalks, etc.*)
- **Utilities** (*underground lines, capacity, etc.*)
- **SWM/Retention**
- **Floodproofing Buildings**
- **Stream Channel Improvements**
(*channel access, maintenance, depth and width, etc.*)
- **Transit** (*Regional connections, incentives, etc.*)
- **Streets** (*traffic-calming, traffic patterns, etc.*)
- **Cleanliness**
- **Public Amenities** (*comforts, “placemaking”, etc.*)
- **Wayfinding/Signage** (*parking, attractions, etc.*)
- **Public Restrooms**

Preservation

A faded, light-colored map of a historic town area, likely in the Ohio River valley. The map shows a grid of streets, including St. Paul, St. Peter, and St. Joseph. A prominent feature is the Ohio River, which flows through the town. A railroad line is also visible, crossing the river. The map is oriented with the river on the right side of the image.

- **Historically Appropriate Restoration and Rehabilitation**
(design standards, maintain character and scale, etc.)
- **Historic Preservation Education**
(increased public awareness, staff/commission training, etc.)
- **Building Maintenance**
- **Historic Property Maintenance**
- **Historic Property Database**
(inventory, new designations, etc.)
- **Funding**

Economic Development

- Business Preparedness
- Public Access to Historic Sites
(operation hours, programming, staff expansion, etc.)
- **Small Business Assistance**
(BID, business services, business survey, etc.)
- **Marketing Main Street**
(Better promotion, destination restaurants, hotel, etc.)
- Arts and Entertainment District
(three districts, public art, programming, etc.)
- **Development** *(balanced, transition zone, mixed-use development, etc.)*

Environment

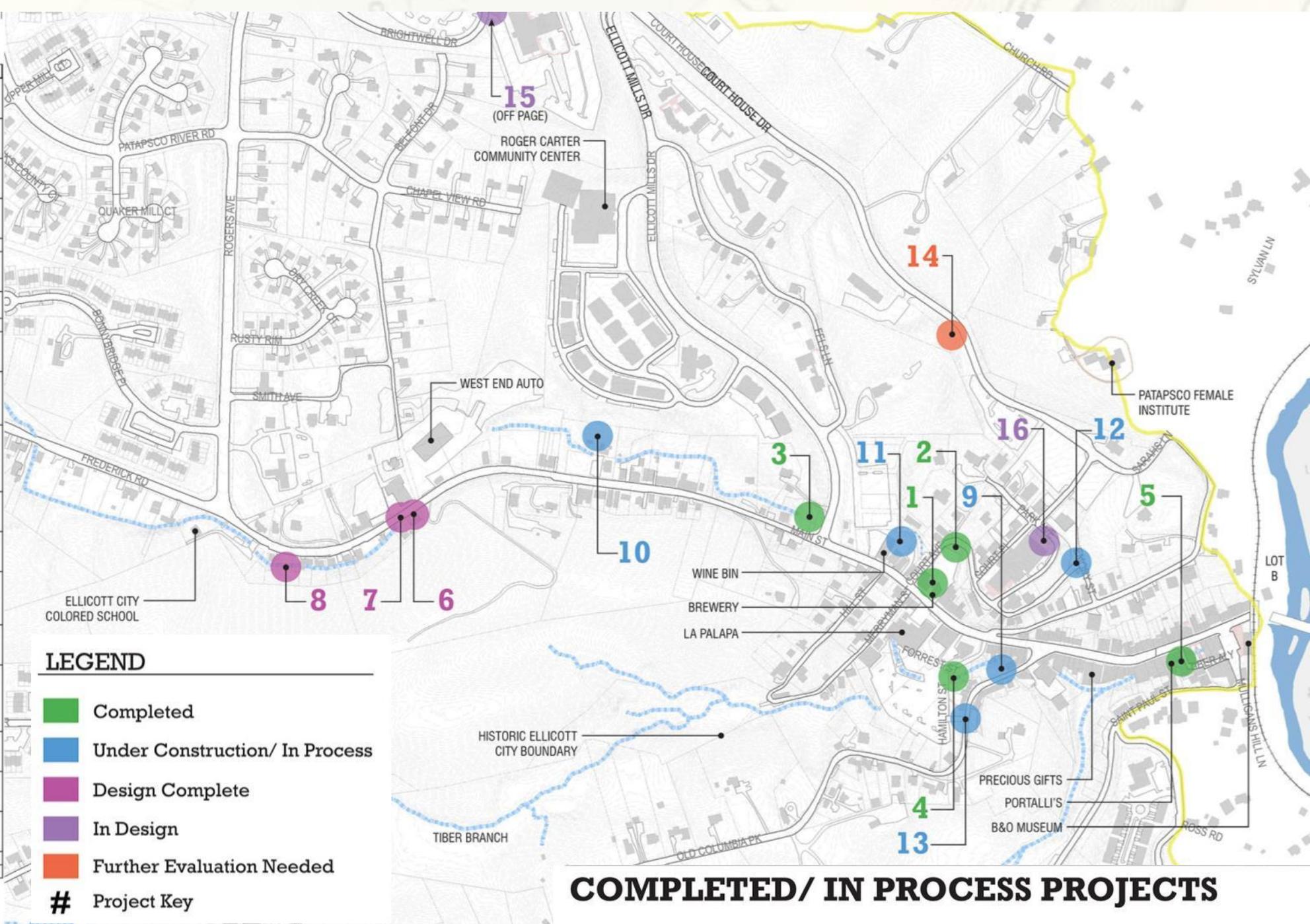
- Native Planting
- **Adding and Improving Open Space**
(waterfront access, Patapsco River Greenway, downtown green space connectivity, expand and protect green space, recreation facilities, etc.)
- **Stormwater Management and Stream Restoration** *(water quality, bank stabilization and restoration, expanded BMP facilities, green infrastructure, watershed plan, etc.)*
- **Environmental Education** *(best practices for private property, County set standard, etc.)*

Other

- **Community Engagement**
- **Public Safety and Health** (*flood mitigation on County property, application of H&H study, monitoring, etc.*)
- **Regulatory Measures** (*special protection zones, upstream development, etc.*)
- **Expansion of County Staff Resources**
- **Flood Insurance**
- **Residential Development**
- **Seniors**
- **Children and Education**

PROJECT LIST

KEY	PROJECT DESCRIPTION	PHASE
*	READY Annual Stream Clean-up: conducted as a result of the 2015 Flood Work Group Report	Complete Fall 2016
*	Annual Stream Cleaning of Large Debris: conducted as a result of the 2015 Flood Work Group Report	Complete Fall 2016
*	Stream Channel Wall Inspections: conducted as a result of the 2015 Flood Work Group Report	Complete
1	Brew Pub Stream Wall Reconstruction: conducted as a result of the Stream Channel Wall Inspections	Complete
2	Parking Lot E Wall Repairs	Complete
3	Repair Erosion above Culvert: recommendation of the 2012 Tiber-Hudson Stream Corridor Assessment (site 5)	Complete
*	Comprehensive Hydrology and Hydraulic Study	Complete
4	Stream Channel Wall behind Hi Ho Silver	Complete
5	Tiber Park Culvert Debris Clean-up: recommendation of the 2017 Tiber-Hudson Stream Corridor Assessment (site 1)	Complete
6	Stream Wall at 84-inch Culvert in 8600 Block of Main Street	Design complete; Construction starting Summer 2017
7	84-inch Culvert Enlargement in 8600 Block of Main Street	Design complete; Holding to coordinate with H+H Study recommendations
8	Stream Channel Wall at 8659 Main Street	Design complete; Construction starting Summer 2017
*	Comprehensive Floodproofing Study by US Army Corps of Engineers: conducted as a result of the 2015 Flood Work Group Report	In progress
9	Rebuild Stream Channel Wall behind Old Theatre	In progress; Expected completion June 2017
10	Stream Clearing on the north side of West Main Street	In progress; Easements obtained
11	Stream Wall between Parking Lots E and F: conducted as a result of the Stream Channel Wall Inspections	Under Construction; Expected completion June 2017
12	Upgrade of Storm Drains on Emory and Church Streets	Currently performing repairs
13	Upgrade of Storm Drains on Old Columbia Pike	Currently performing repairs
14	Stream Restoration between Court House Drive and Fels Lane	Further evaluation needed in FY 18
15	George Howard Building Drainage Project	In design
16	Court House Drainage Project	In design



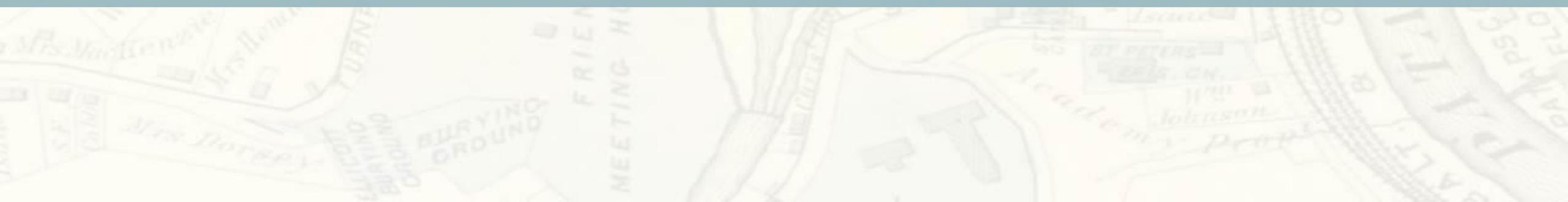
LEGEND

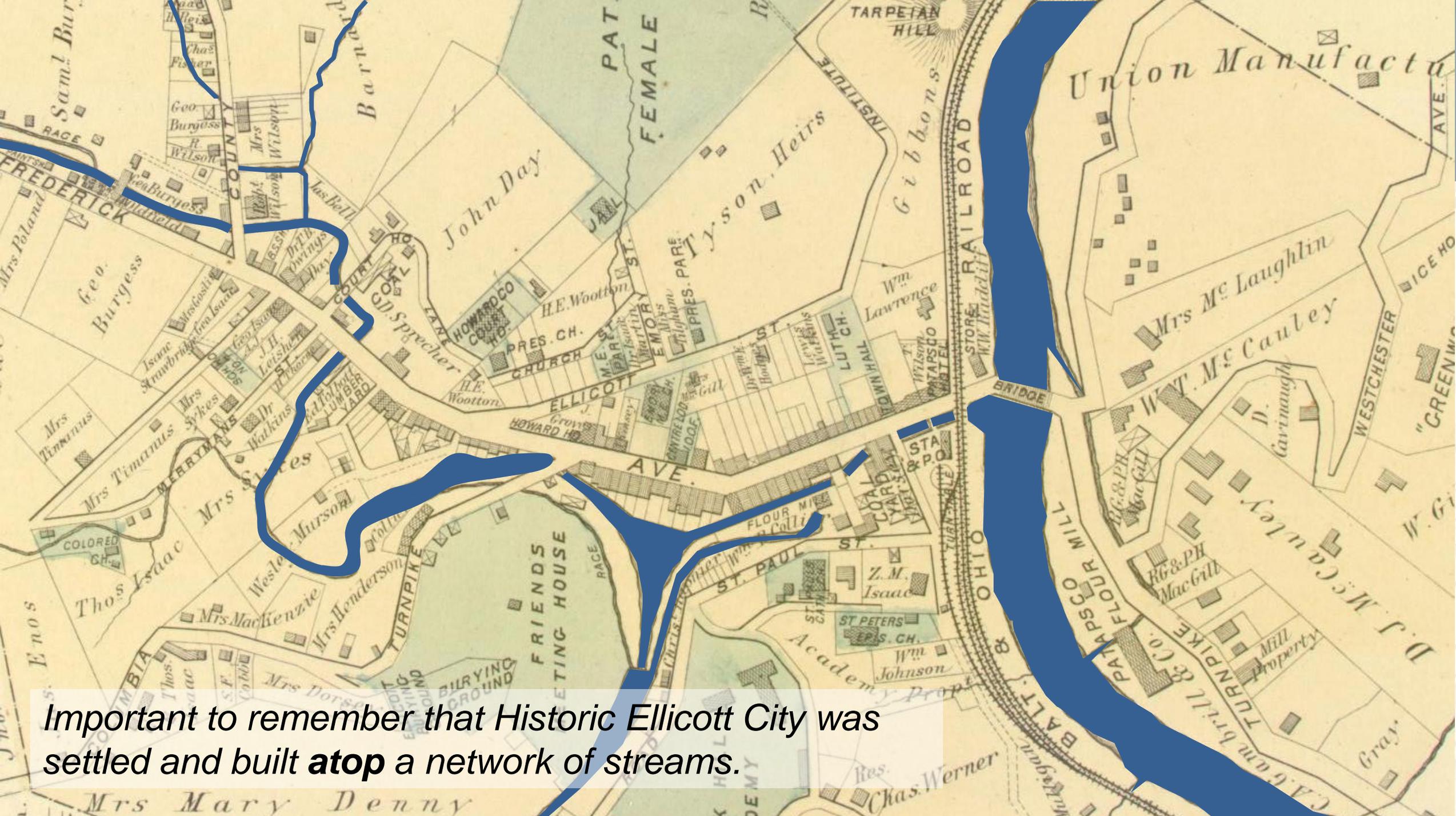
- Completed
- Under Construction/ In Process
- Design Complete
- In Design
- Further Evaluation Needed
- #** Project Key

COMPLETED/ IN PROCESS PROJECTS



APPLICATION OF H&H TO MASTER PLAN





Important to remember that Historic Ellicott City was settled and built **atop** a network of streams.

Examples of Flood Mitigation Techniques



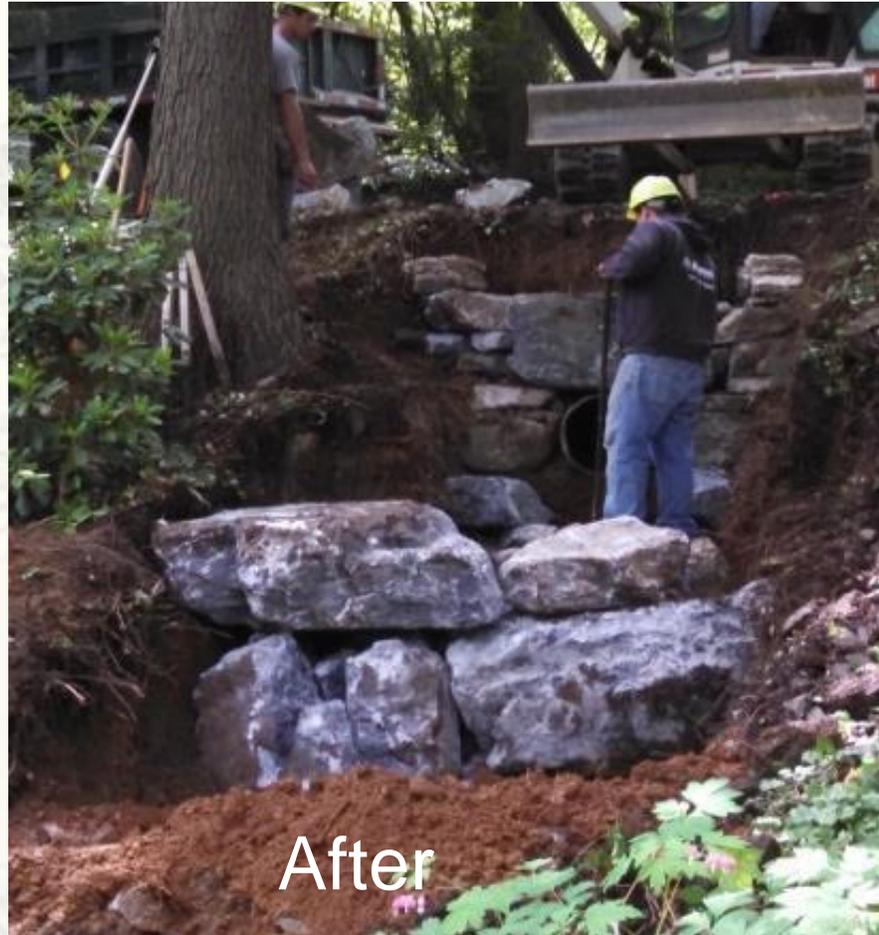
Retention Basins / Debris Catchment (RK&K)

Examples of Flood Mitigation Techniques

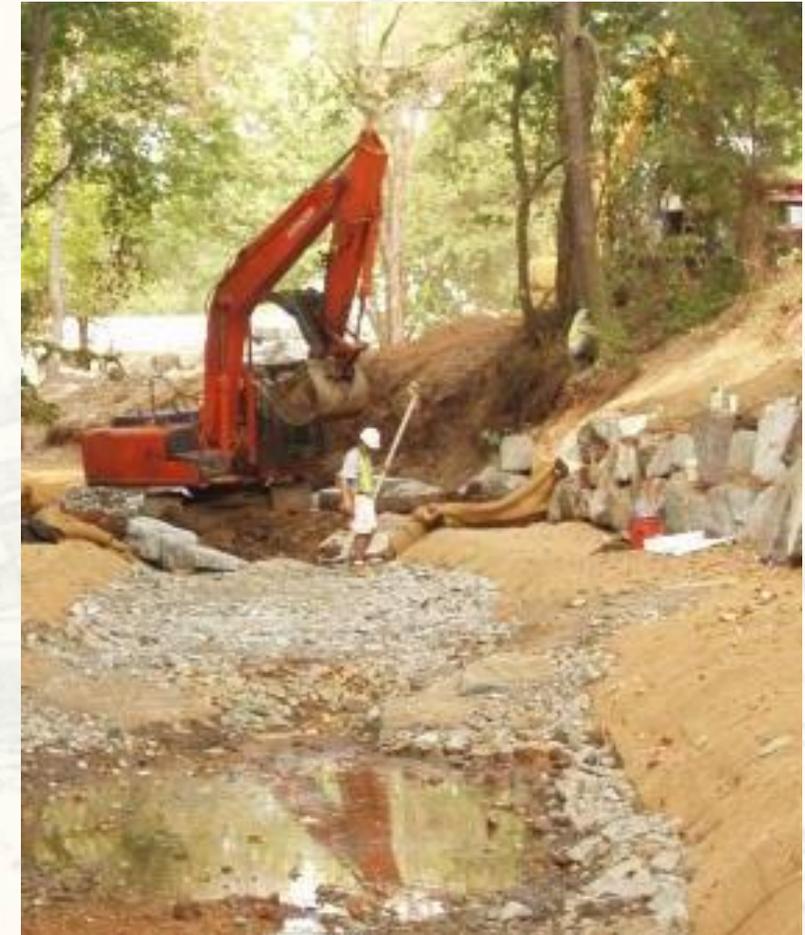


Before

Stream Bank Stabilization (*Land Studies*)

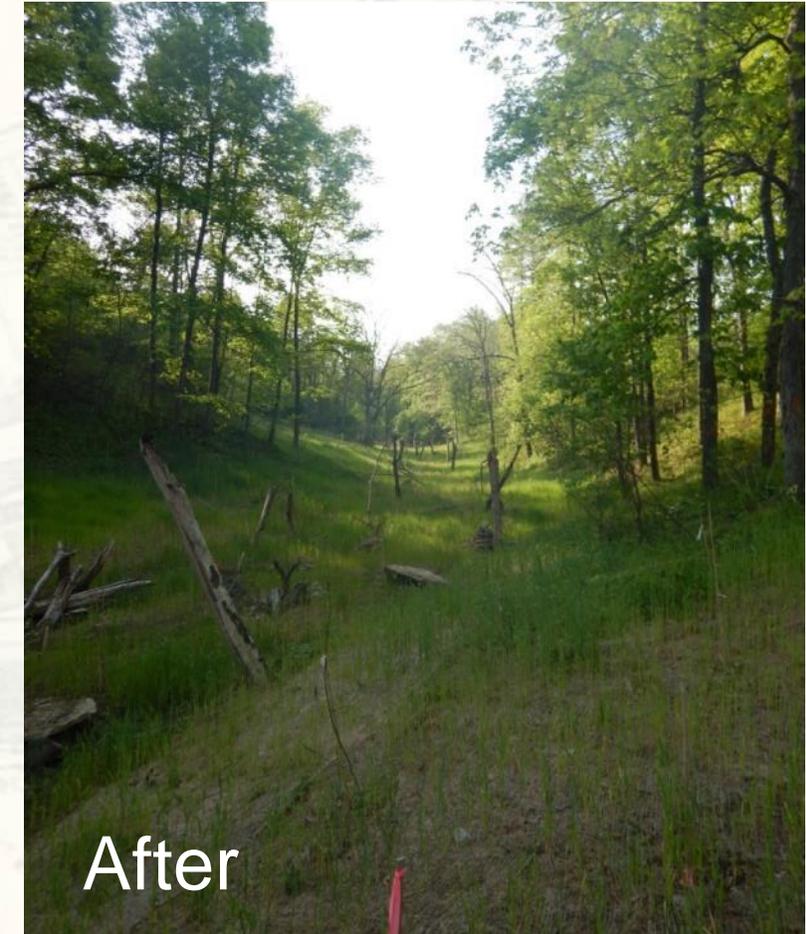


After



Stream Bank Stabilization (*RK&K*)

Examples of Flood Mitigation Techniques



Stream Restoration (*Land Studies*)

Examples of Flood Mitigation Techniques



Regional Floodplain Restoration (*Land Studies*)

Examples of Flood Mitigation Techniques



Bridge Widening (*Land Studies*)

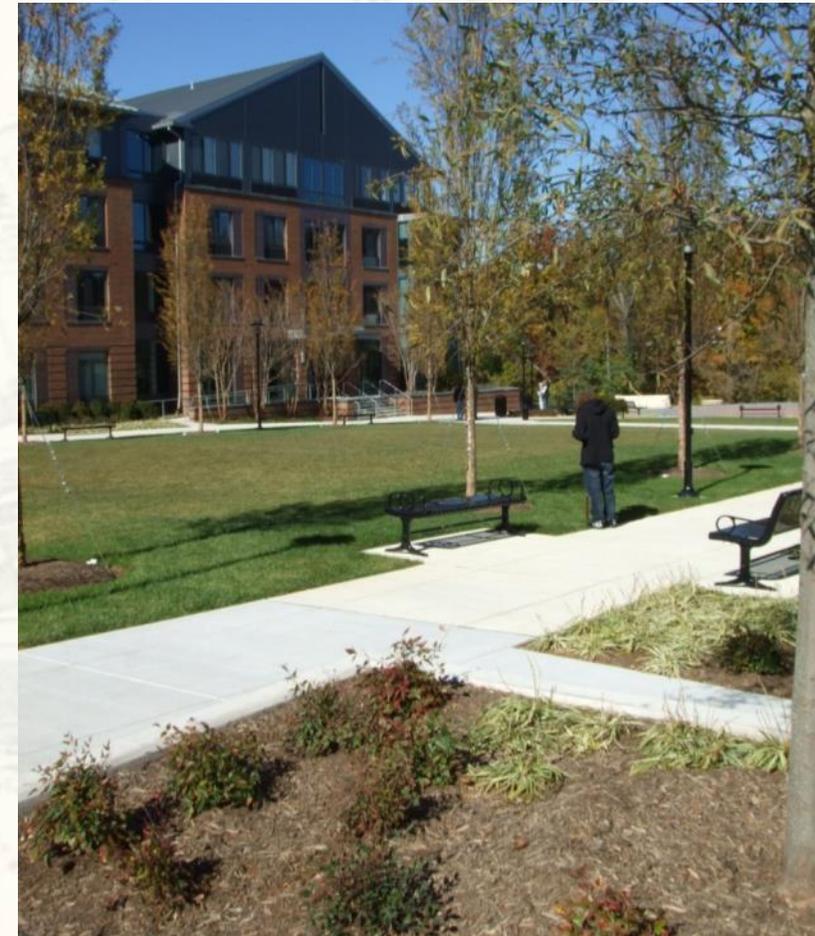
Examples of Flood Mitigation Techniques



Underground Pipe Farms (*RK&K*)



Underground Conveyance (*RK&K*)



Underground Storage (*MRA*)

Examples of Flood Mitigation Techniques

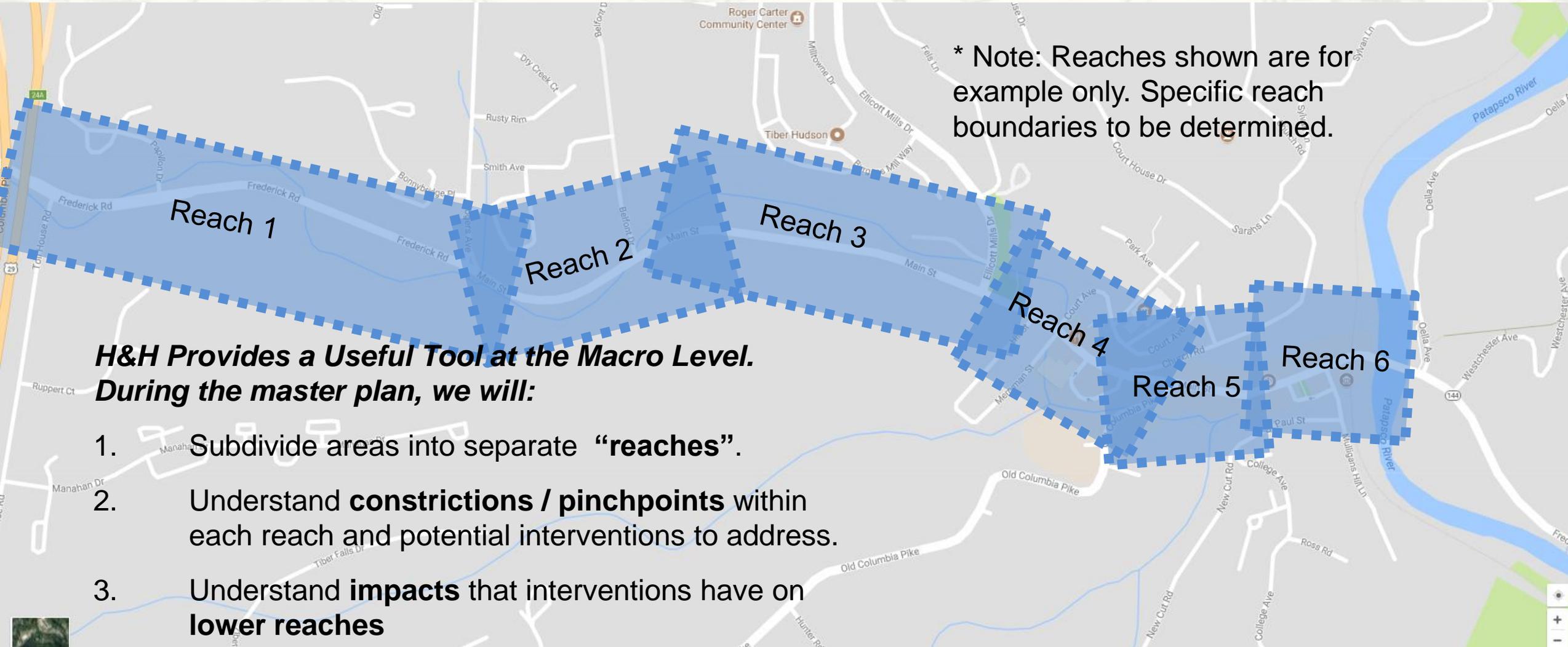


Building Modifications

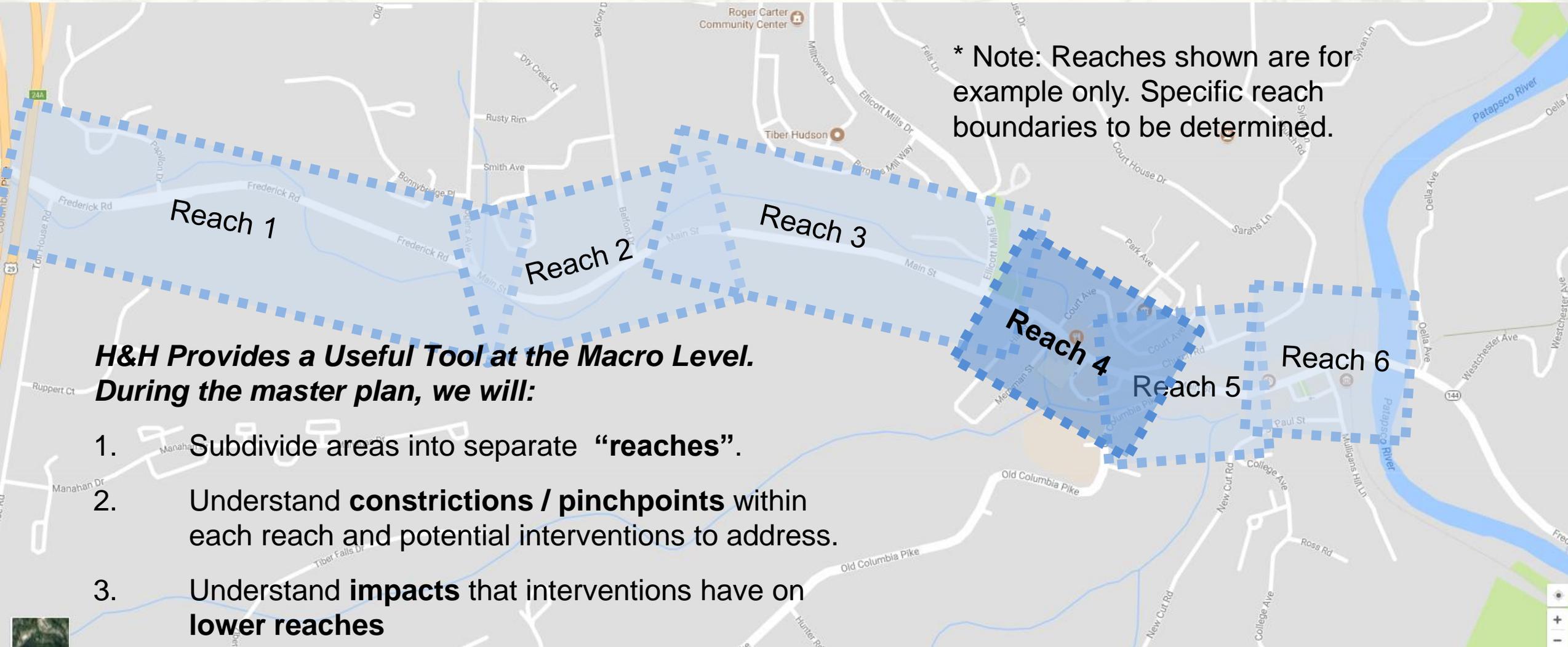


Repurposing Structures

Approach in Ellicott City



Approach in Ellicott City



Example #1

Sample Project: Improve Lot D *(Could be landscape/placemaking enhancements, improved layout, structured parking, and/or infill development, etc.)*

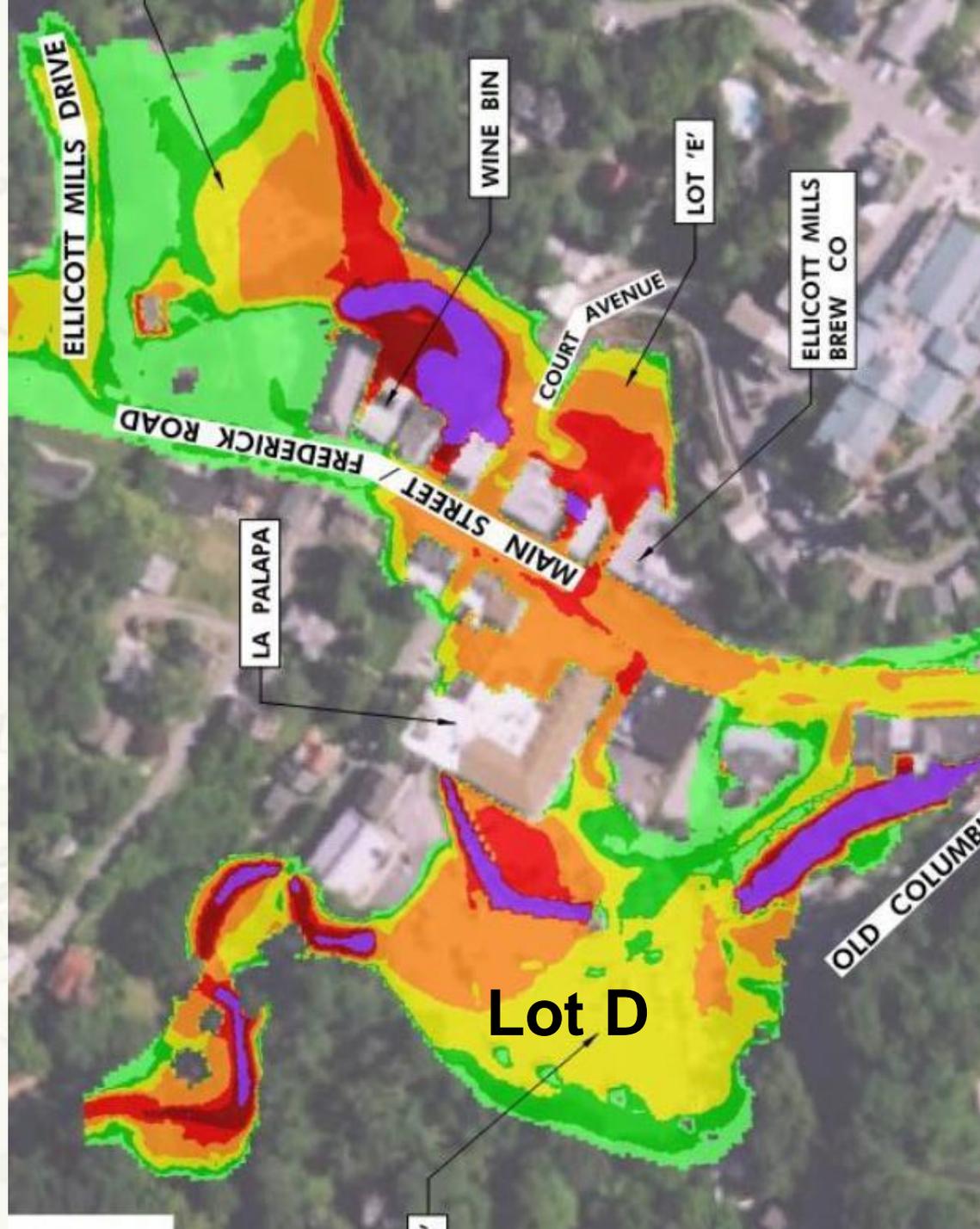
Example of the **inter-relationship** of potential **enhancement projects** and how the **H&H Study** could **inform** the projects.

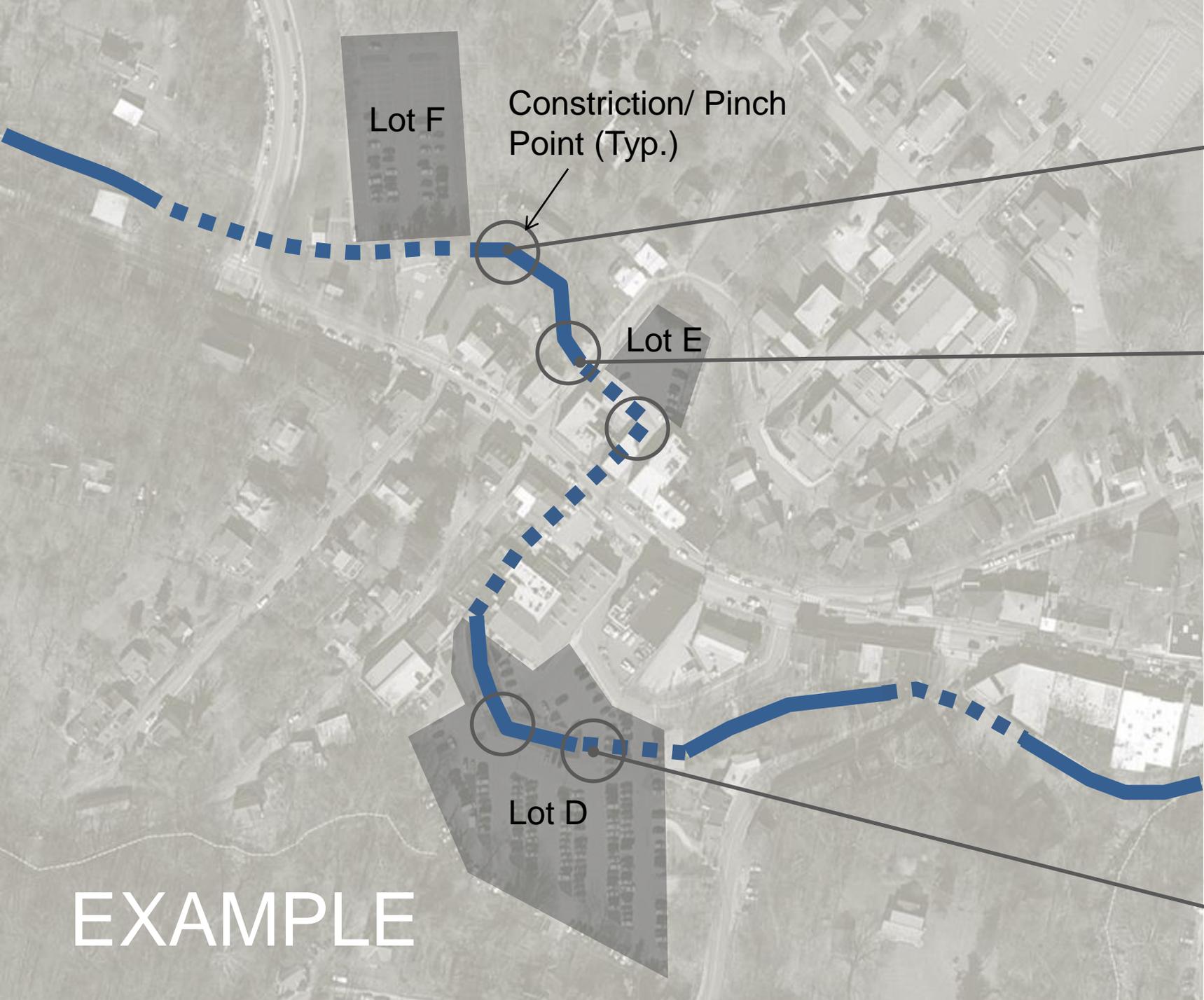


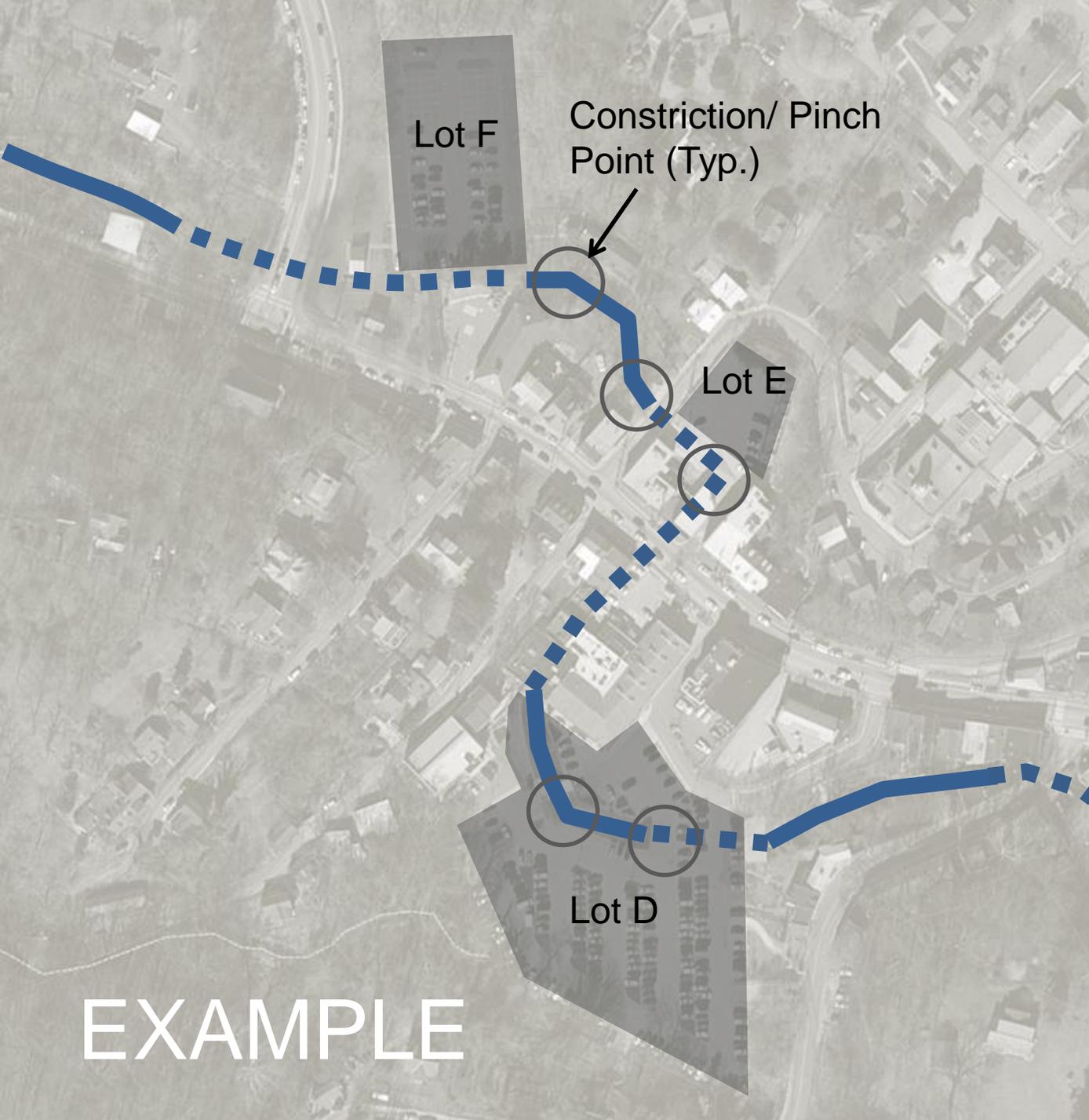
Lot D

EXAMPLE





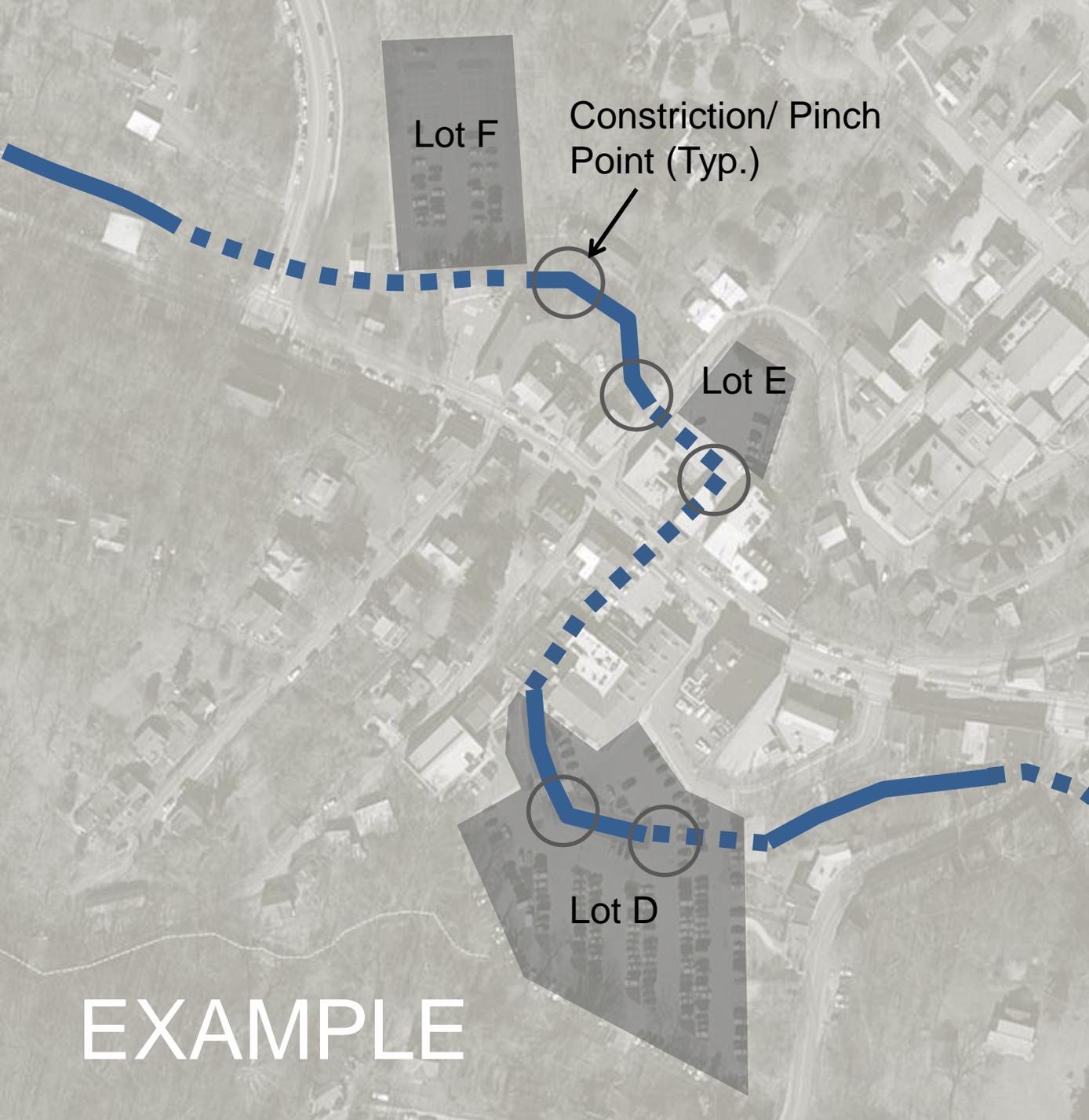




EXAMPLE

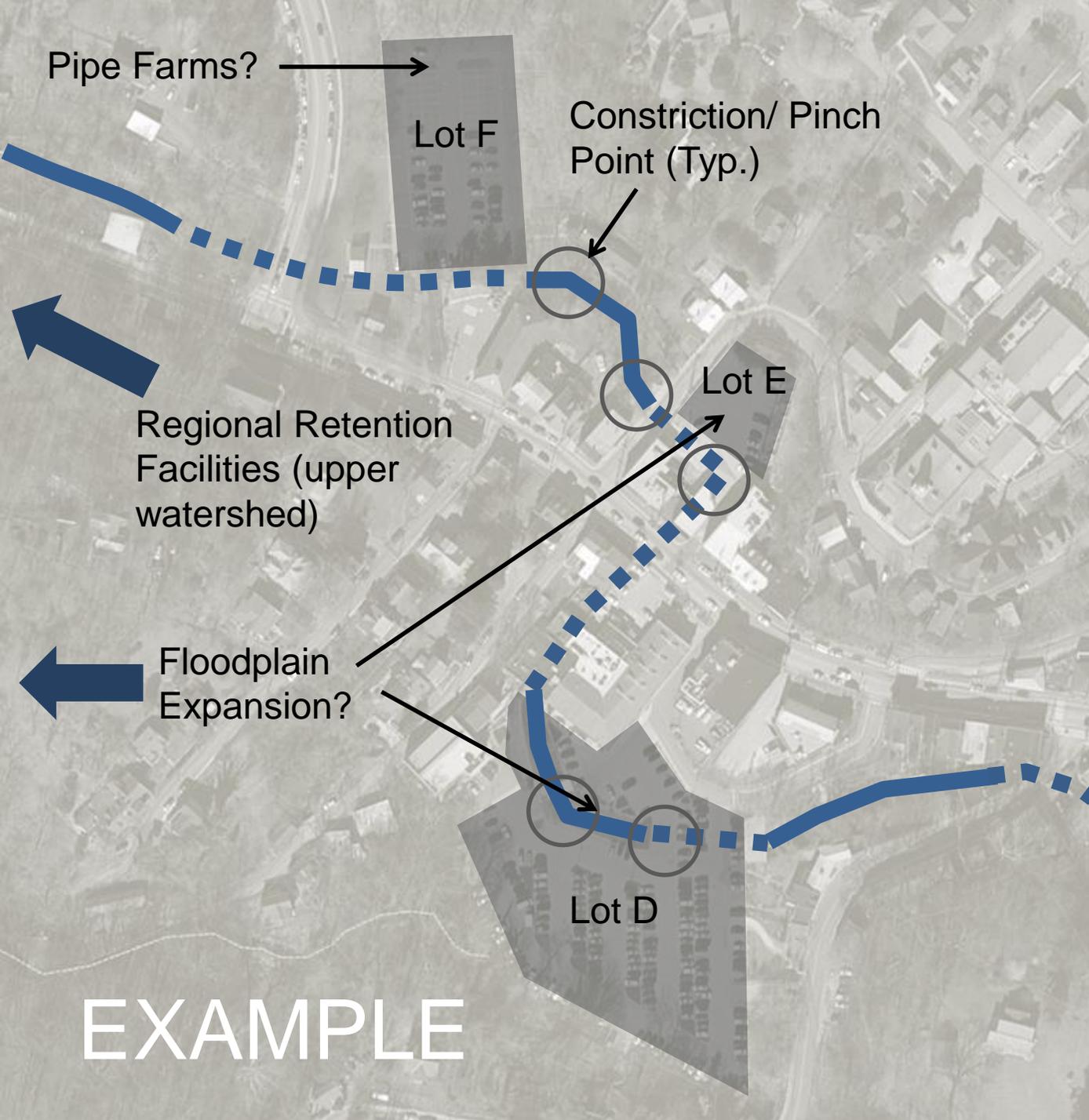
Some of the Master Plan Goals:

- *Mitigate flooding on Frederick Road and Main Street*
- *Undertake responsible, continuous removal of stream debris*
- *Promote economic growth*
- *Improve transportation options*
- *Increase variety of park amenities and gathering spaces*



Flood Mitigation Approach:

1. Increase storage capacity within the watershed
2. Improve conveyance
3. Manage bedload in the system
4. Identify potential special flood safety features

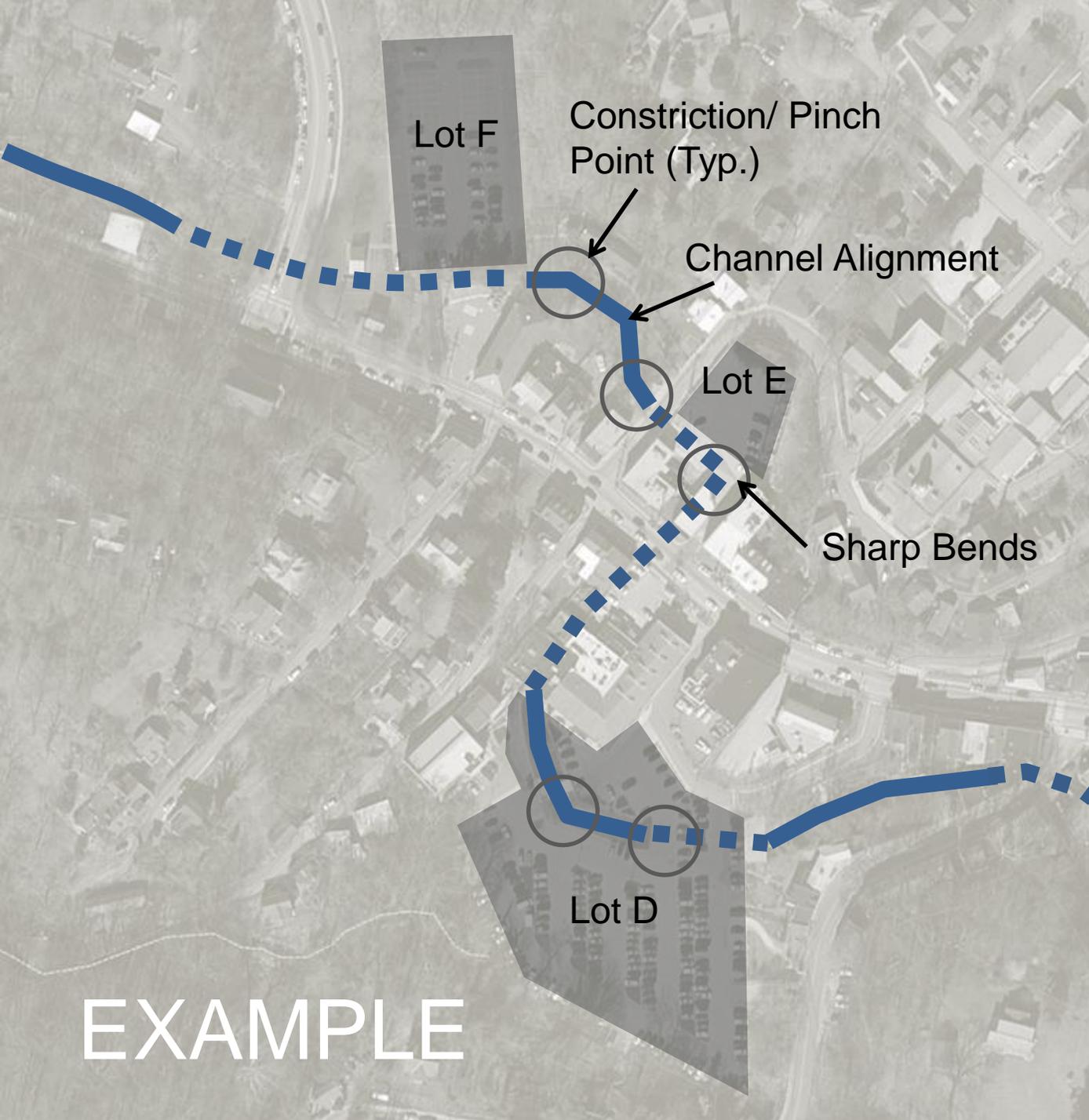


Flood Mitigation Approach:

1. Increase storage capacity within the watershed

How?

- Regional retention facilities
- Floodplain expansion
- Pipe farms



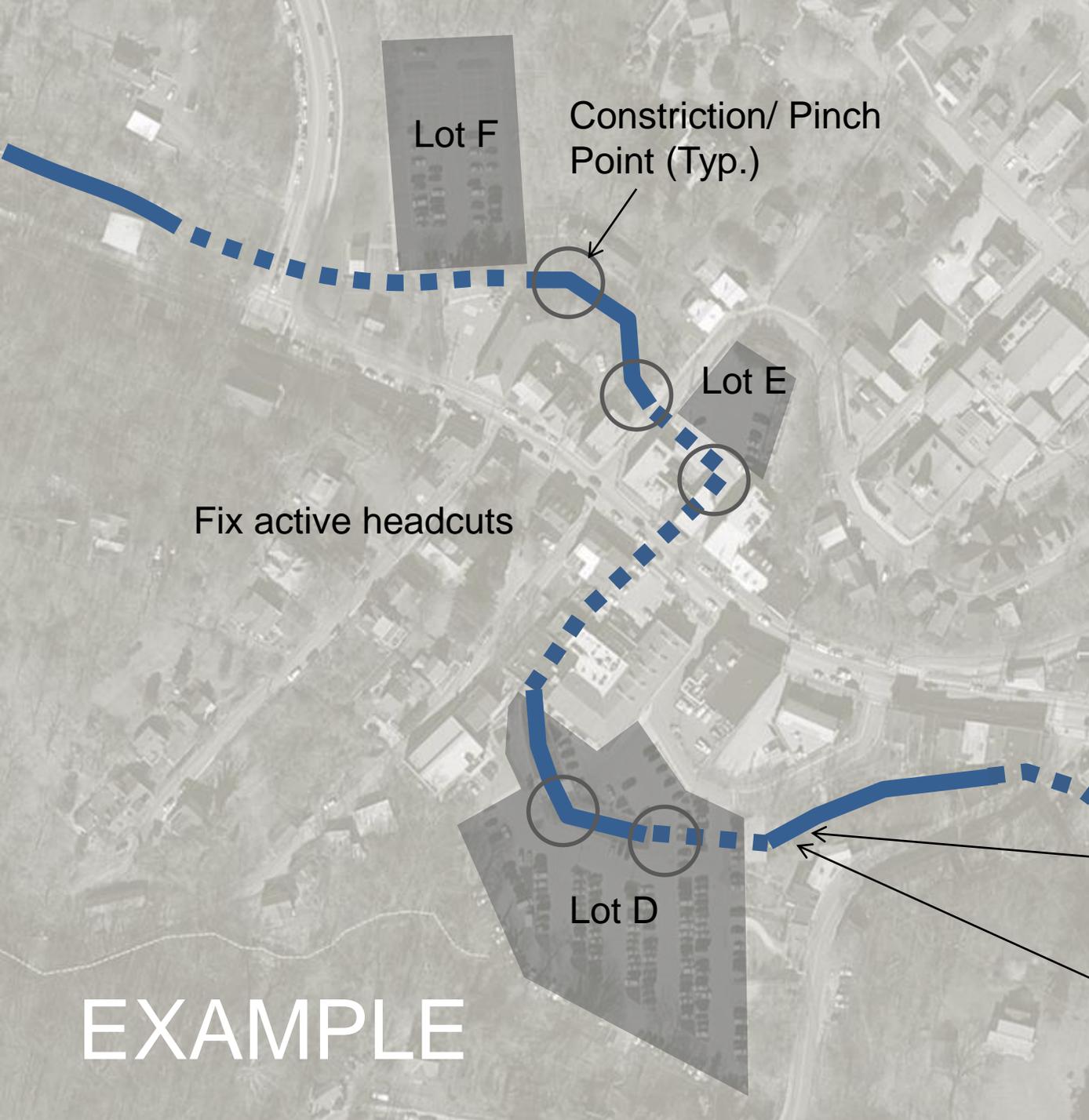
Flood Mitigation Approach:

1. Increase storage capacity within the watershed

2. Improve conveyance

How?

- Properly size culverts/pipes
- Minimize constrictions/pinch points/sharp bends
- Improve channel alignment (also realignment)



Flood Mitigation Approach:

1. Increase storage capacity within the watershed
2. Improve conveyance
- 3. Manage bedload in the system**

How?

- Identify and fix active headcuts and erosion along contributing streams
- Manage riparian buffer to reduce debris and remove vulnerable trees



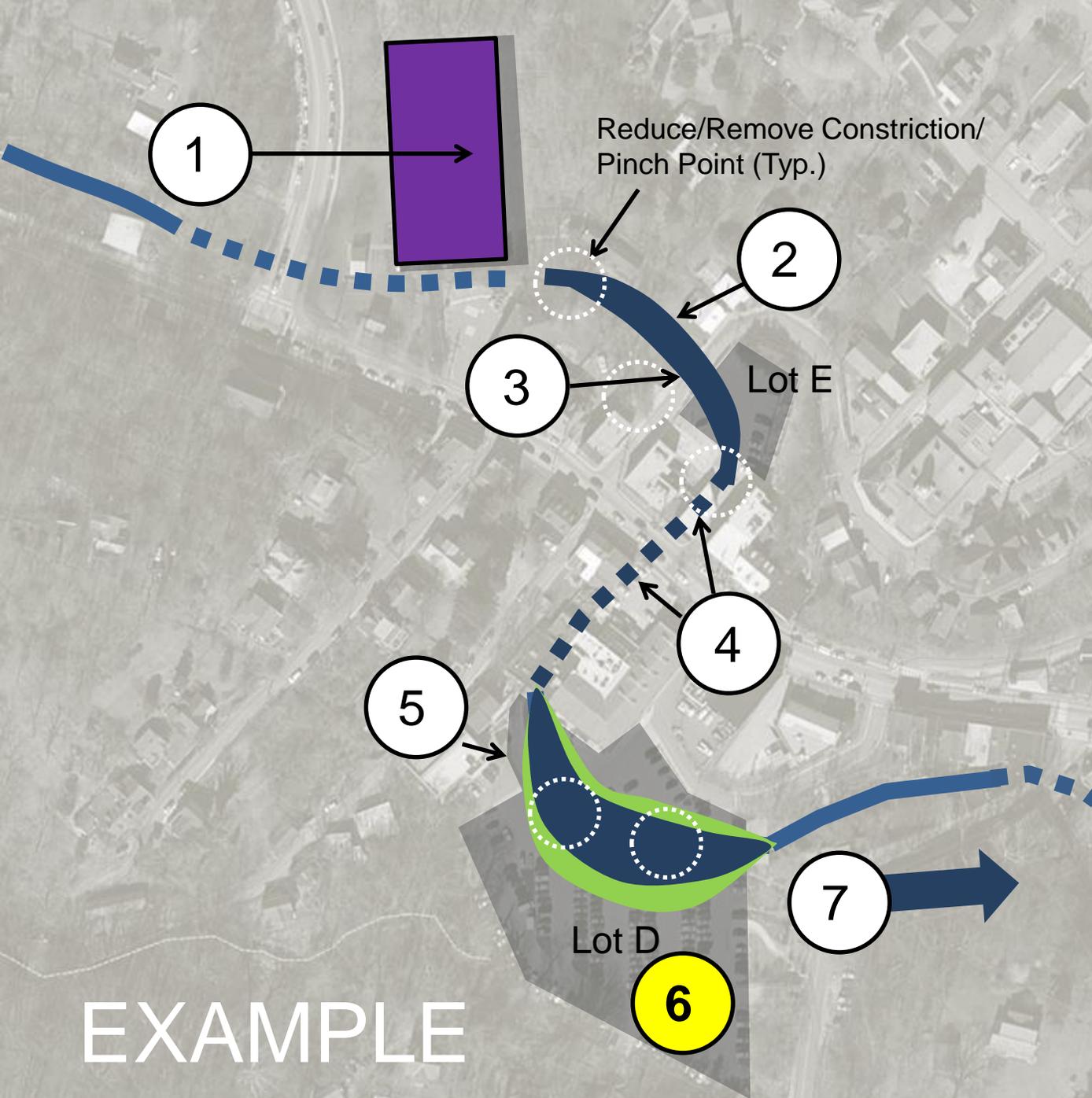


Flood Mitigation Approach:

1. Increase storage capacity within the watershed
2. Improve conveyance
3. Manage bedload in the system
4. **Identify special flood safety features**

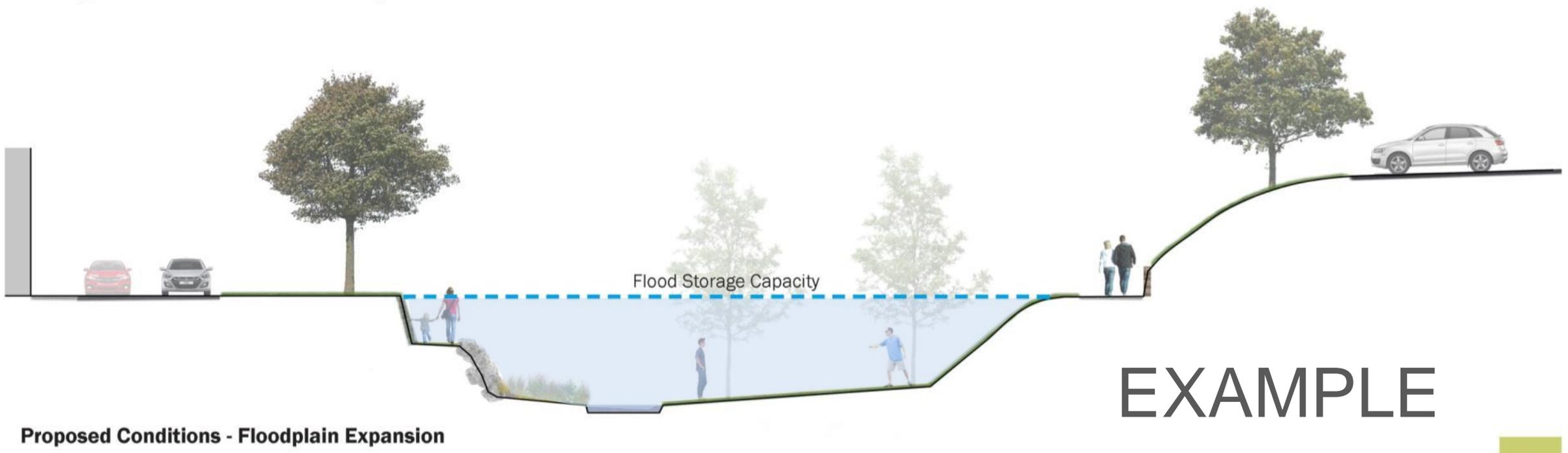
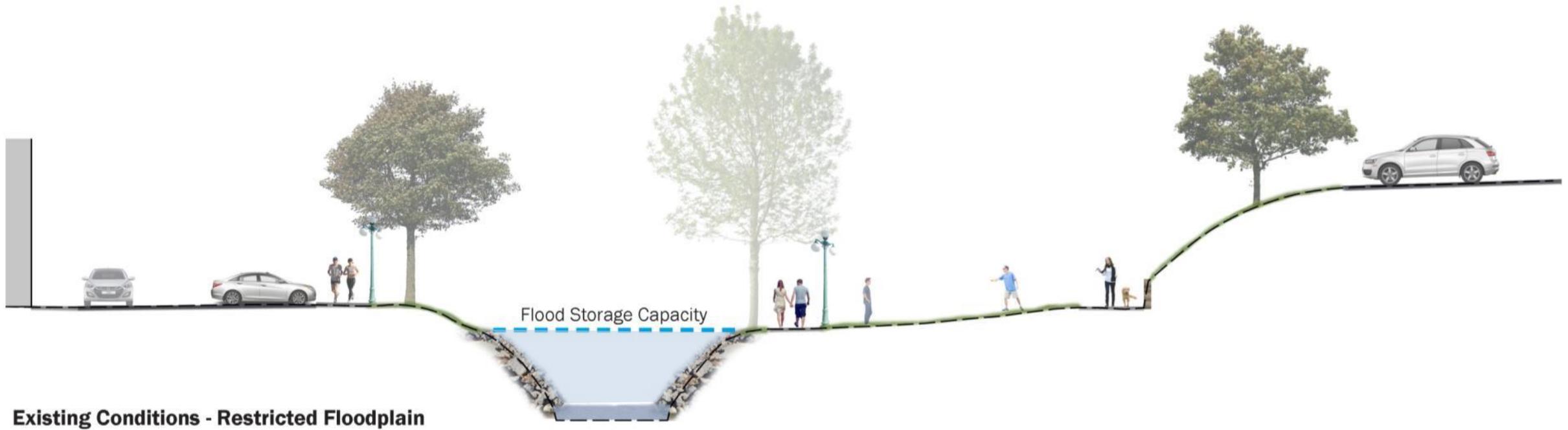
How?

- **Keep floodplain clear of dumpsters/other objects**
- **Modify structures to allow “through flow” – buildings**
- **Provide open grate decking to allow visual and physical access to culverts**



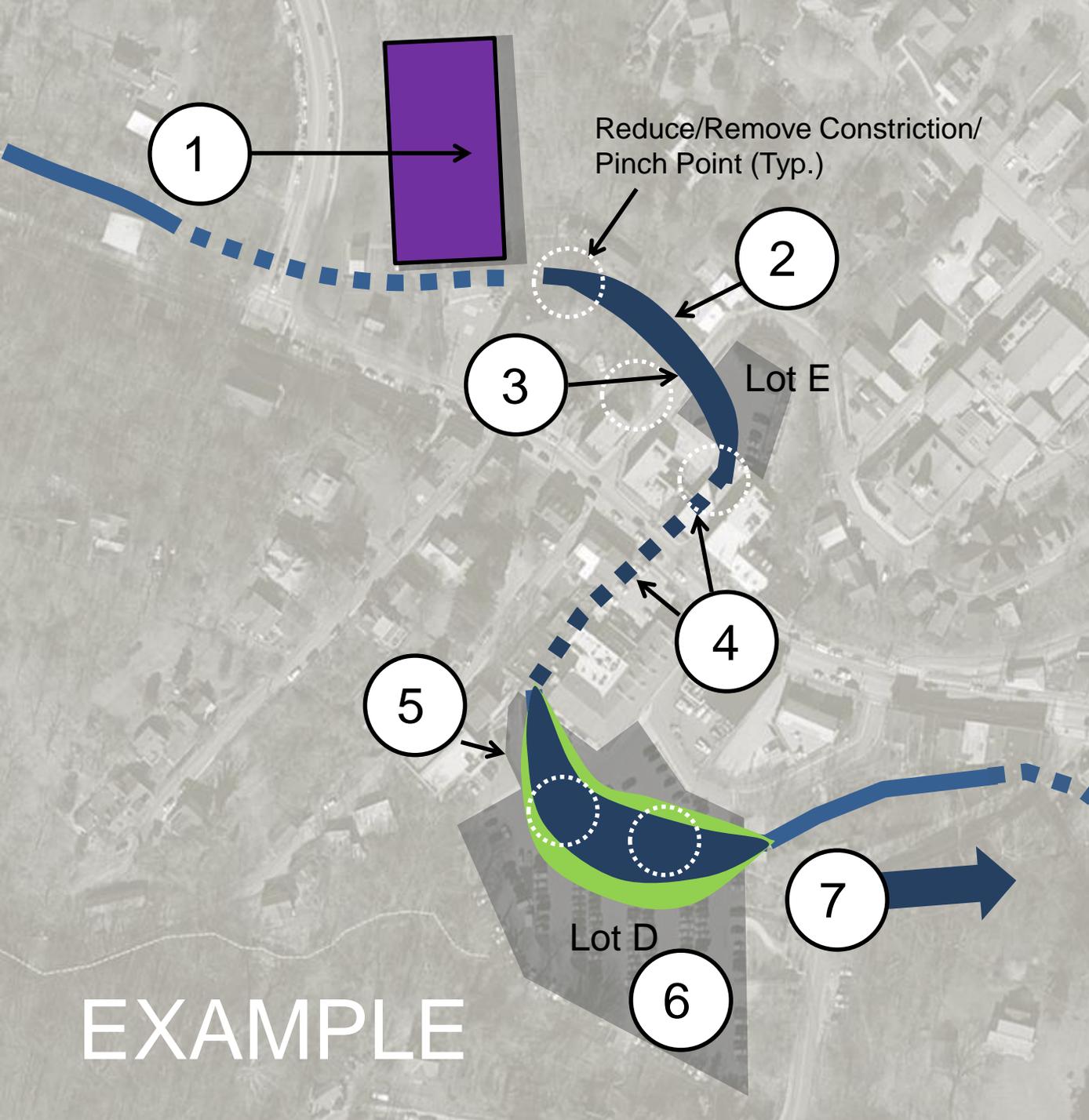
Parallel Planning Efforts:

1. Consider structured parking (*in conjunction with underground SWM?*) in Lot F to allow reduced parking in Lots E and D
2. Improve channel alignment/width between Lots F/E and redesign Lot E
3. Provide open grate decking over Court Ave
4. Increase culvert under Main Street – Relocate/Modify Building?
5. **Improve channel alignment/width in Lot D in conjunction with open space enhancements**
6. **Other Improvements to Lot D**
7. Understand downstream impacts in lower reaches



EXAMPLE





Challenges to Consider:

- *Potential impacts to utility lines (sewer)*
- *Potential impacts to private property*
- *Construction phasing and minimizing impacts to businesses*
- *Building modifications or relocation – impact to historic resources*

Example #2

Sample Project: Lower Main Street – Pedestrian improvements that don't obstruct flood conveyance

Example of the inter-relationship of potential enhancement projects and how the H&H Study could inform the projects.



PART 2: TABLE EXERCISES



Table Exercises

As we explore opportunities for Downtown and the watershed, what other opportunities do you see? What are the key issues we need to consider for this topic?

(In addition to flood mitigation ideas from the H&H Study)

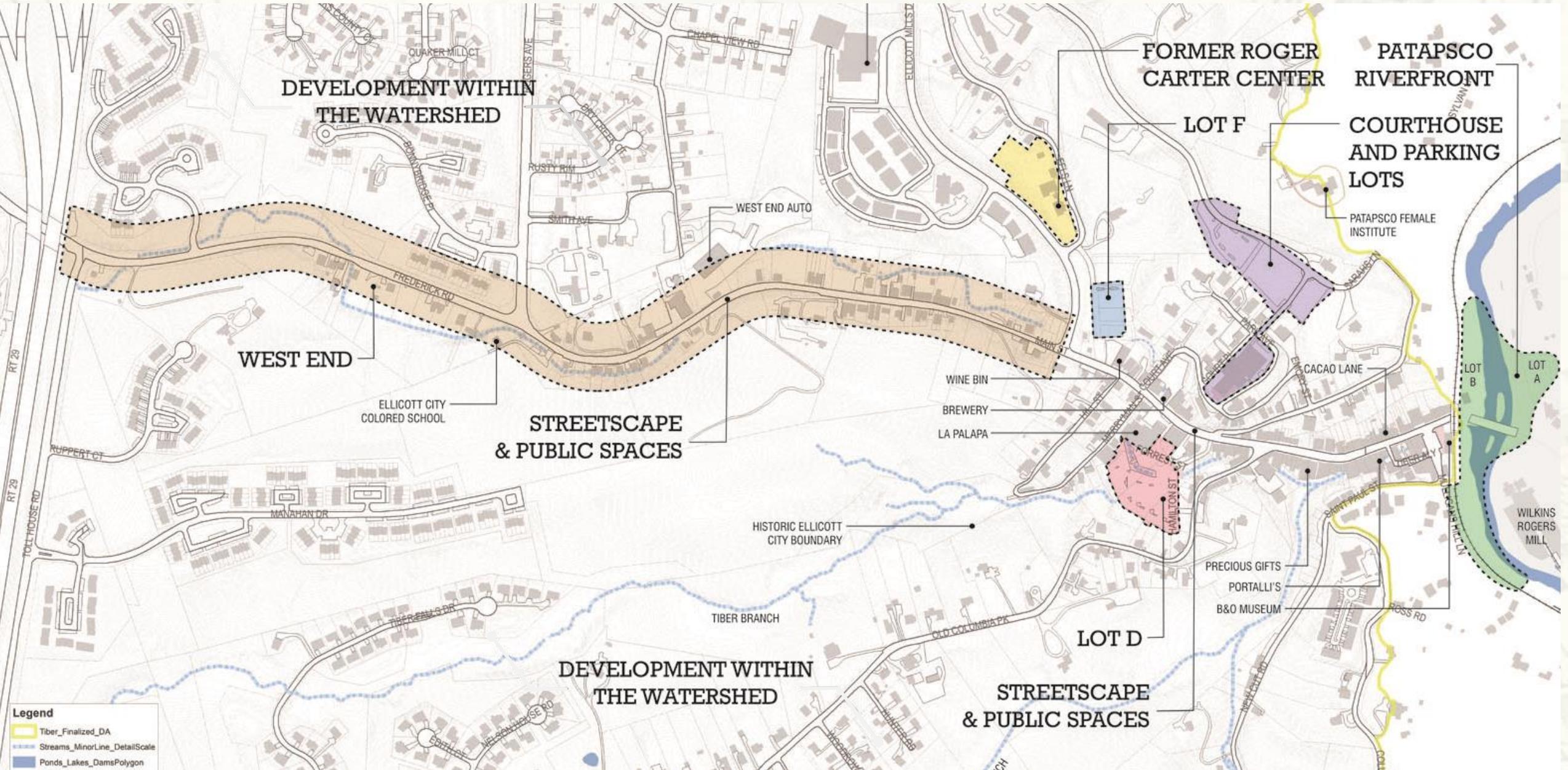
Table Exercises

Group 1 (Tables 1-6)

- A. The Patapsco Riverfront
 - B. Courthouse Site
 - C. Parking Lots D and F
- *“Development in the Watershed*
 - *Wildcard”*

Group 2 (Tables 7-12)

- D. The West End
 - E. Streetscape and Public Spaces
 - F. Former Roger Carter Site
- *Development in the Watershed*
 - *“Wildcard”*



Workshop 2 Table Exercises

As we explore opportunities for Downtown, what is important to consider for the topics below (in addition to flood mitigation ideas from H&H study). For each topic, please record important opportunities and critical concerns. One person at your table will then be a “reporter” and share one consideration for up to two topics.

Topic	Opportunities	Key Issues to Consider
<p data-bbox="512 486 901 529">The Patapsco Riverfront</p> <p data-bbox="453 554 958 625"><i>(Existing ideas: better access, outfitters, riverwalk, overlook, etc.)</i></p>		
<p data-bbox="471 965 937 1058">The Courthouse (Buildings & Parking Areas)</p> <p data-bbox="466 1082 945 1196"><i>(Existing ideas: boutique hotel, mixed-use/residential, stormwater capture, etc.)</i></p>		

Workshop 2 Table Exercises

As we explore opportunities for Downtown, what is important to consider for the topics below (in addition to flood mitigation ideas from H&H study). For each topic, please record important opportunities and critical concerns. One person at your table will then be a “reporter” and share one consideration for up to two topics.

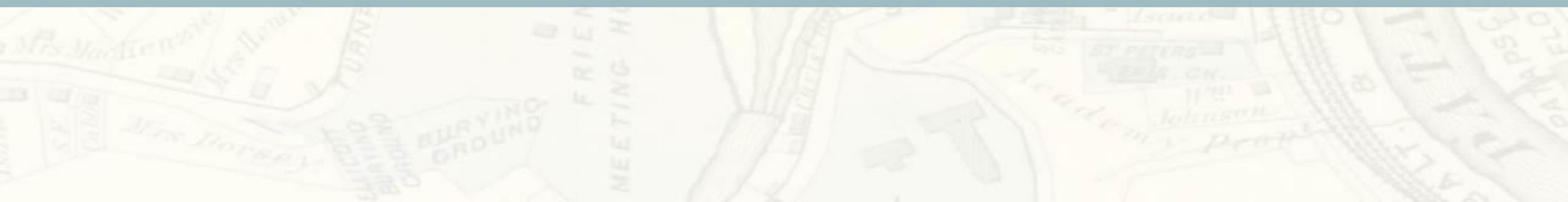
Topic	Opportunities	Key Issues to Consider
<p>The Patapsco Riverfront</p> <p><i>(Existing ideas: better access, outfitters, riverwalk, overlook, etc.)</i></p>	<p style="text-align: center; font-size: 48px; opacity: 0.5;">Example</p>	
<p>The Courthouse (Buildings & Parking Areas)</p> <p><i>(Existing ideas: boutique hotel, mixed-use/residential, stormwater capture, etc.)</i></p>	<ul style="list-style-type: none"> • <i>Boutique hotel/ restaurant</i> • <i>Housing only</i> • <i>Cultural facility</i> 	<ul style="list-style-type: none"> • <i>Any new building structure must be compatible to existing courthouse building</i> • <i>“Wrap” any parking with active uses</i> • <i>Incorporate effective stormwater management</i>

Reporting Back

1. Identify one person at each table to be responsible for reporting back
2. Report back **one important opportunity or key issue** from **two categories** and share **one wild card** idea.
3. Collect notes



COMMUNITY MARKETING



Community Marketing

1. Overarching Vision - What does Ellicott City want to be? (Historic is only a part)
2. What distinguishes Ellicott City from other places?
3. How can Ellicott City better market itself to the internal and external markets?
4. What is important in telling the story?



The graphic features a central text block 'OLD * ELICOTT CITY' in a bold, blue, distressed font. To the right of the text is a black and white illustration of a man in a suit playing a violin. Surrounding the text and illustration are various red and blue icons: a high-heeled shoe, a lace-up boot, a blue mug with white polka dots, a red boot, a red knife, and a red fork. At the bottom left is the 'EC P *' logo with the text 'ELICOTT CITY PARTNERSHIP' next to it. At the bottom right is the website 'VisitEllicottCity.com'.

OLD * ELICOTT CITY

Individually Crafted Since 1772

ELICOTT CITY PARTNERSHIP

YEARLY EVENTS

- Springfest** April
- Hills of Milltown 5K** May
- Main Street Music Fest** September
- Midnight Madness** December
- First Fridays** April–December
Shops and galleries are open late, outdoor live music and more!
- Girls Night Out** April–December
Third Thursdays are for shopping, sipping & having fun with your gal pals!
- Artwalk** October

Founded in 1772, Old Ellicott City is a picturesque town located between Baltimore and Washington, DC and is home to historic sites, unique boutique shops and five museums.

From specialty coffees and handmade chocolates, to casual pub fare and fine French Country dining—Ellicott City is yours to explore. View our website to learn more and plan your visit!

VisitEllicottCity.com

Group Exercise – The “Family Game”

Objective: Define those characteristics that distinguish Ellicott City from other places.

1. Describe as if town is a person.
2. How would you describe him/her?

Your Neighbors: Catonsville, Sykesville, Columbia

Yourself: Ellicott City

Identify the 5 master plan goals most important to you:

- 56%** 1. Preserving historic buildings
- 72%** 2. Mitigating storm water from riverine flooding (I.e., 7/30/16 event)
- 30%** 3. Protecting Lower Main from Patapsco River rise
- 58%** 4. Promoting economic growth and revitalizing Main Street
- 14%** 5. Expanding housing opportunities
- 39%** 6. Providing park and open space
- 50%** 7. Improving transportation options (pedestrian access/safety, bicycle facilities, shuttle etc.)
- 34%** 8. Providing direct access & recreational opportunities to the Patapsco River
- 25%** 9. Promoting relationships with Oella and Catonsville
- 56%** 10. Addressing impervious areas associated with development in the watershed

What one rebuilding goal is most important to you?

- 10% 1. Incorporate design features and quality materials for all new buildings
- 16% 2. Emphasize “high-touch” streetscape materials (wrought iron fencing, brick sidewalks, cobblestone alleys)
- 47% 3. Create continuous connections to Old Ellicott City for pedestrians, bicyclists, transit riders, and people arriving by car
- 6% 4. Add landscaping and other streetscape amenities along Main Street
- 21% 5. Increase variety of park amenities and gathering space

What one preservation goal is most important to you?

- 37% 1. Preserve and reuse civic structures
- 26% 2. Require quality, approved building materials in historic district
- 37% 3. Increase awareness of historical significance of Old EC

What one economic goal is most important to you?

- 13% 1. Promote economic growth, adding value to the surrounding area
- 16% 2. Approve fiscally achievable recommendations to be phased in over time
- 13% 3. Promote niche businesses that are impactful (art, classic toys, live performances)
- 5% 4. Promote more festivals and other special programming
- 13% 5. Coordinate with Baltimore County on an economic strategy
- 40% 6. Address development in the watershed

What one environmental goal is most important to you?

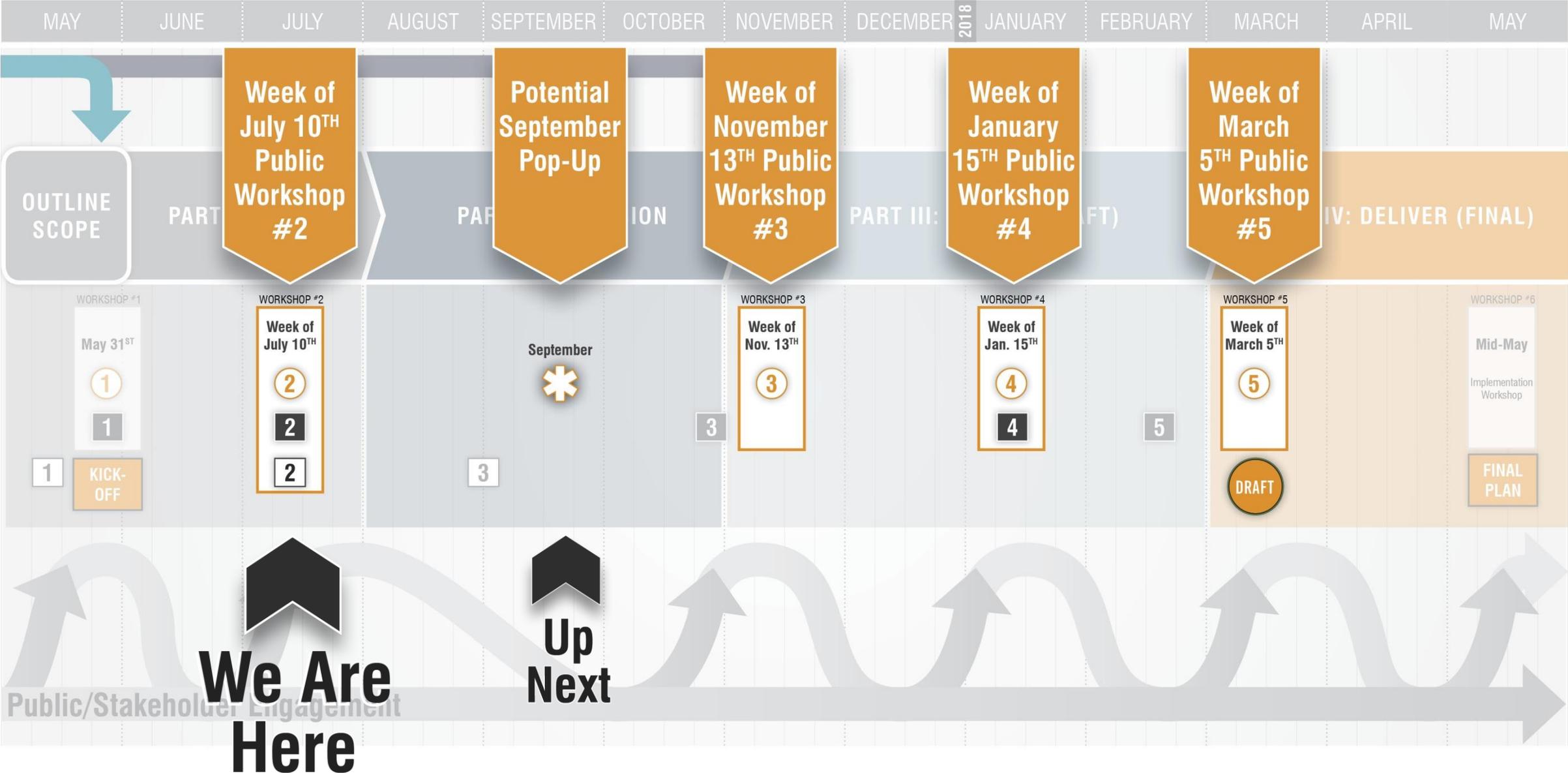
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- A horizontal bar chart with six bars of varying lengths, each representing a percentage. The bars are light blue and extend from the left side of the chart. The percentages are: 51%, 4%, 24%, 5%, 2%, and 15%. The corresponding goals are listed to the right of each bar.
- | Percentage | Goal |
|------------|---|
| 51% | 1. Create a responsible swm mitigation plan that is able to be phased over time |
| 4% | 2. Create views and access to the Patapsco River |
| 24% | 3. Mitigate flooding on Frederick Road and Main Street |
| 5% | 4. Provide flood proofing requirements |
| 2% | 5. Achieve proper refuse disposal in Old Ellicott City |
| 15% | 6. Undertake responsible, continuous removal of stream debris (private property and County-owned) |
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 - 4% 2. Create views and access to the Patapsco River
 - 24% 3. Mitigate flooding on Frederick Road and Main Street
 - 5% 4. Provide flood proofing requirements
 - 2% 5. Achieve proper refuse disposal in Old Ellicott City
 - 15% 6. Undertake responsible, continuous removal of stream debris (private property and County-owned)

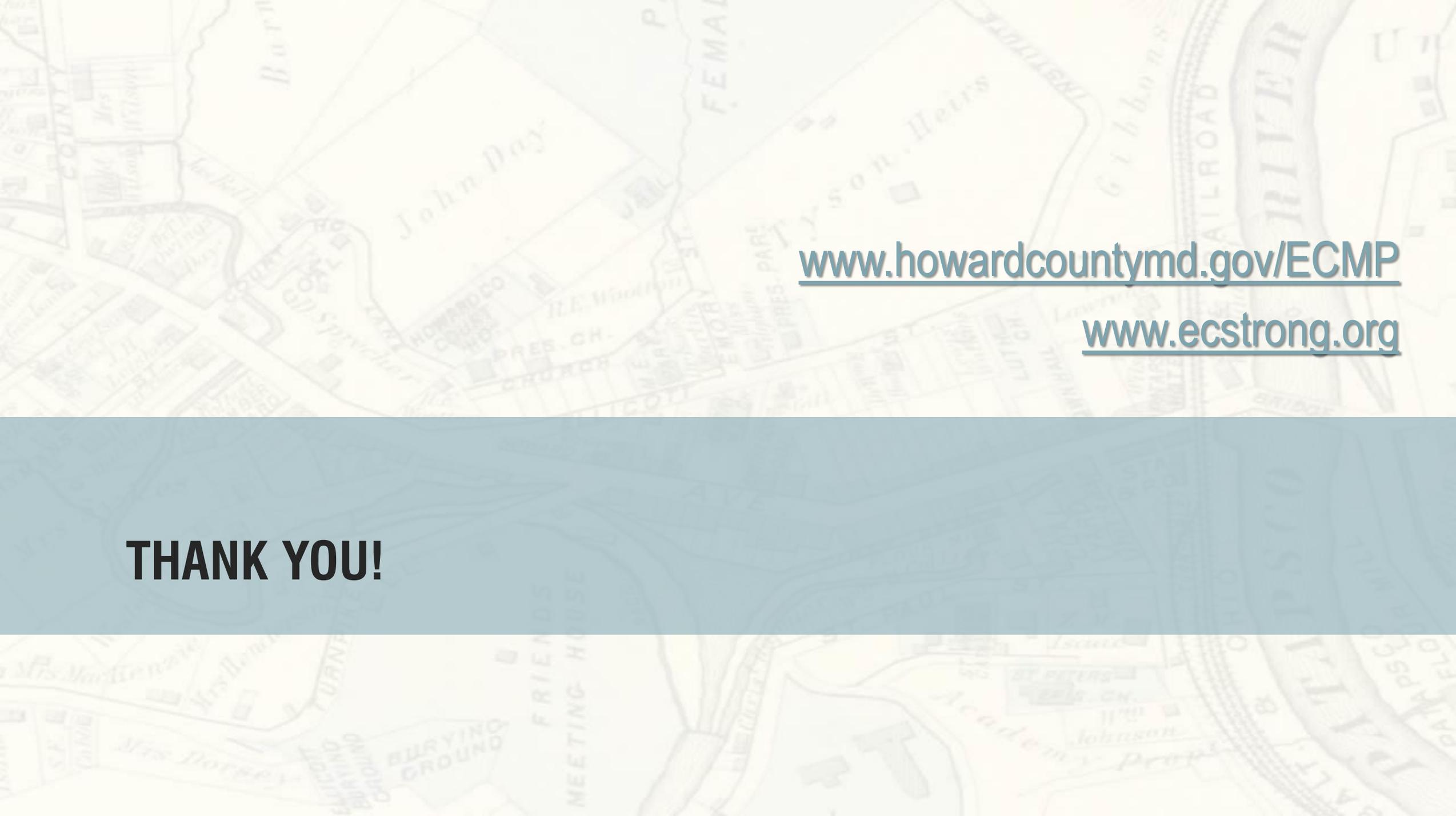
What's Next?

- 1. September 23:** “Pop-Up” Event – Informal Input
- 2. Week of October 30:** MPAT Meeting #3
- 3. Week of November 13:** Public Meeting #3 – Alternate Scenarios

Upcoming Input Opportunities

-  Public Meeting
-  Technical Team Meeting
-  Army Corps Study
-  MPAT Meeting
-  Special Pop-Up Engagement
-  McCormick Taylor H&H Study



A historical map of a town area, likely from the 19th century. The map shows a grid of streets, including Barnum, John Day, Howard, and others. There are also labels for various buildings and landmarks, such as 'FRIENDS MEETING HOUSE' and 'BURYING GROUND'. The map is oriented with North at the top.

www.howardcountymd.gov/ECMP

www.ecstrong.org

THANK YOU!