

# GATEWAY TO THE GAP



**UK**  
UNIVERSITY OF  
KENTUCKY®

College of Agriculture,  
Food and Environment  
Department of Landscape Architecture

Public Meeting April 12, 2014

# Presentation Outline



Introductions  
Who is UKLA?



# University of Kentucky Landscape Architecture



## Who is UKLA?

- Students in the University of Kentucky's Department of Landscape Architecture
- We learn to create human environments that are sustainable, socially relevant, artful, and functional.



# Presentation Outline

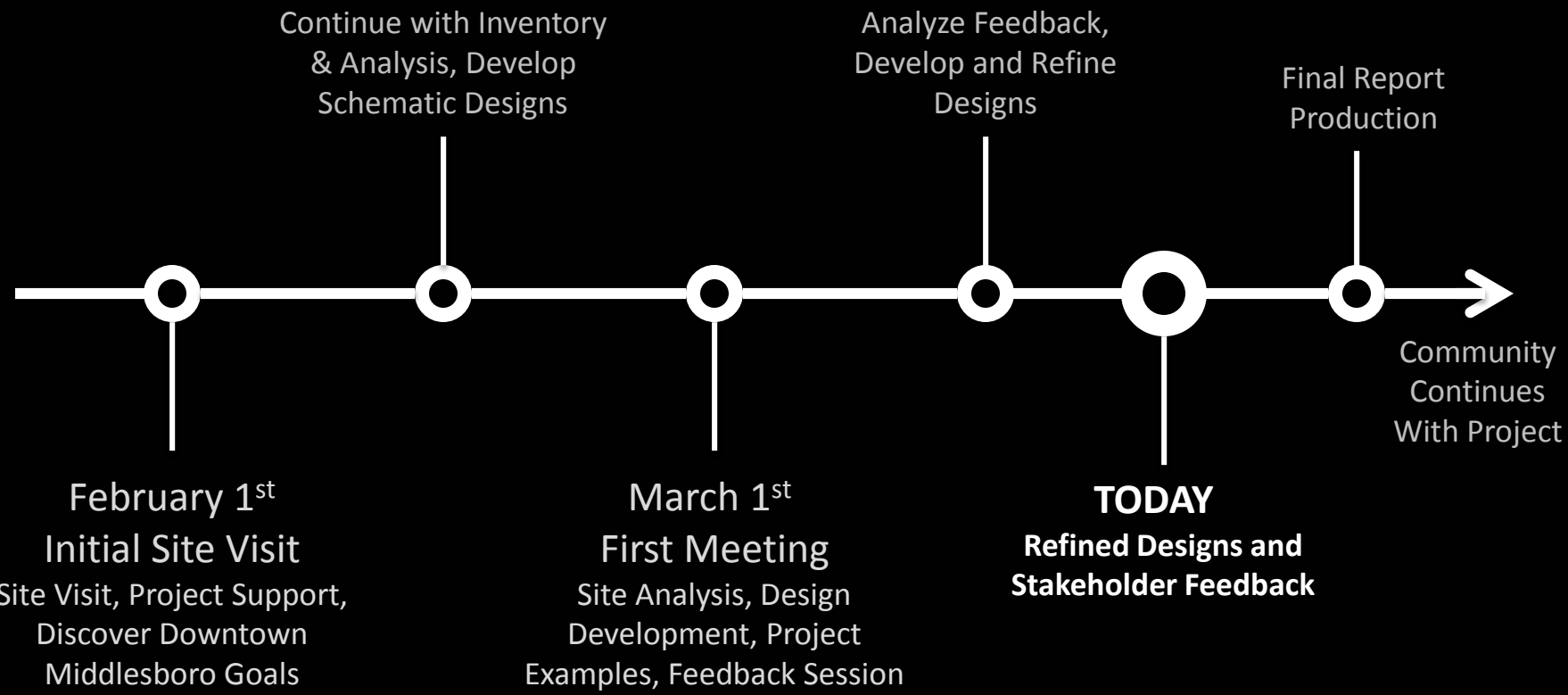


Introductions  
Who is UKLA?





# Project Timeline



# Presentation Outline



Introductions  
Who is UKLA?



# Project Objectives



- Work with the community to identify challenge areas
- Propose design solutions that address the community's needs and goals
- Improve connections to regional trails (Cumberland Gap National Park & Boone Trace)
- Make Middlesboro a regional hub for tourism
- Offer design solutions that appeal to a younger generation, closing the generation gap
- Make Middlesboro the "Gateway to the Gap"





# Presentation Outline



Introductions  
Who is UKLA?



# Community Accomplishments



## What You've Already Accomplished:

- Grants
  - River, Trails, Conservation Assistance (NPS)
  - Recreational Trail Program (KY Transportation Cabinet)
- Downtown Development Plans
  - Short Term:
    - Trail Town Initiative
  - Long Term:
    - Attract tourism and events
    - Preserve the history of Middlesboro
    - Stream/Canal restoration
    - Trail system improvement: Boone Trace and the Canal Walk

## Current Community Growth Strategies

- Develop and attract "location neutral" retail businesses
- Make Downtown Middlesboro the city's priority location for new retail businesses and small industries
- Expand the arsenal of downtown property rehabilitation and development tools
- Focus on developing locally owned businesses rather than trying to attract national retail chains
- Attract and retain young entrepreneurs
- Create a small downtown hotel or inn
- Conduct further research on where downtown customers come from

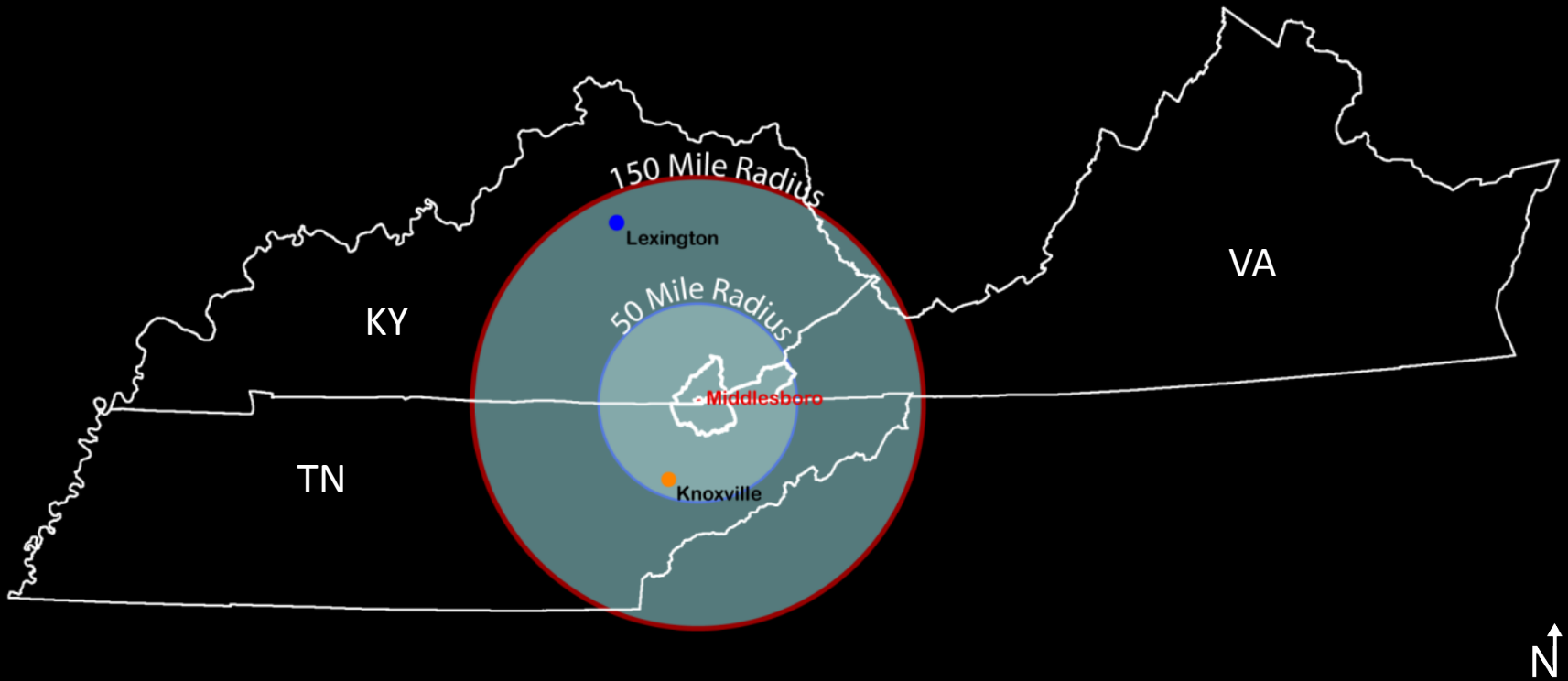


# Presentation Outline





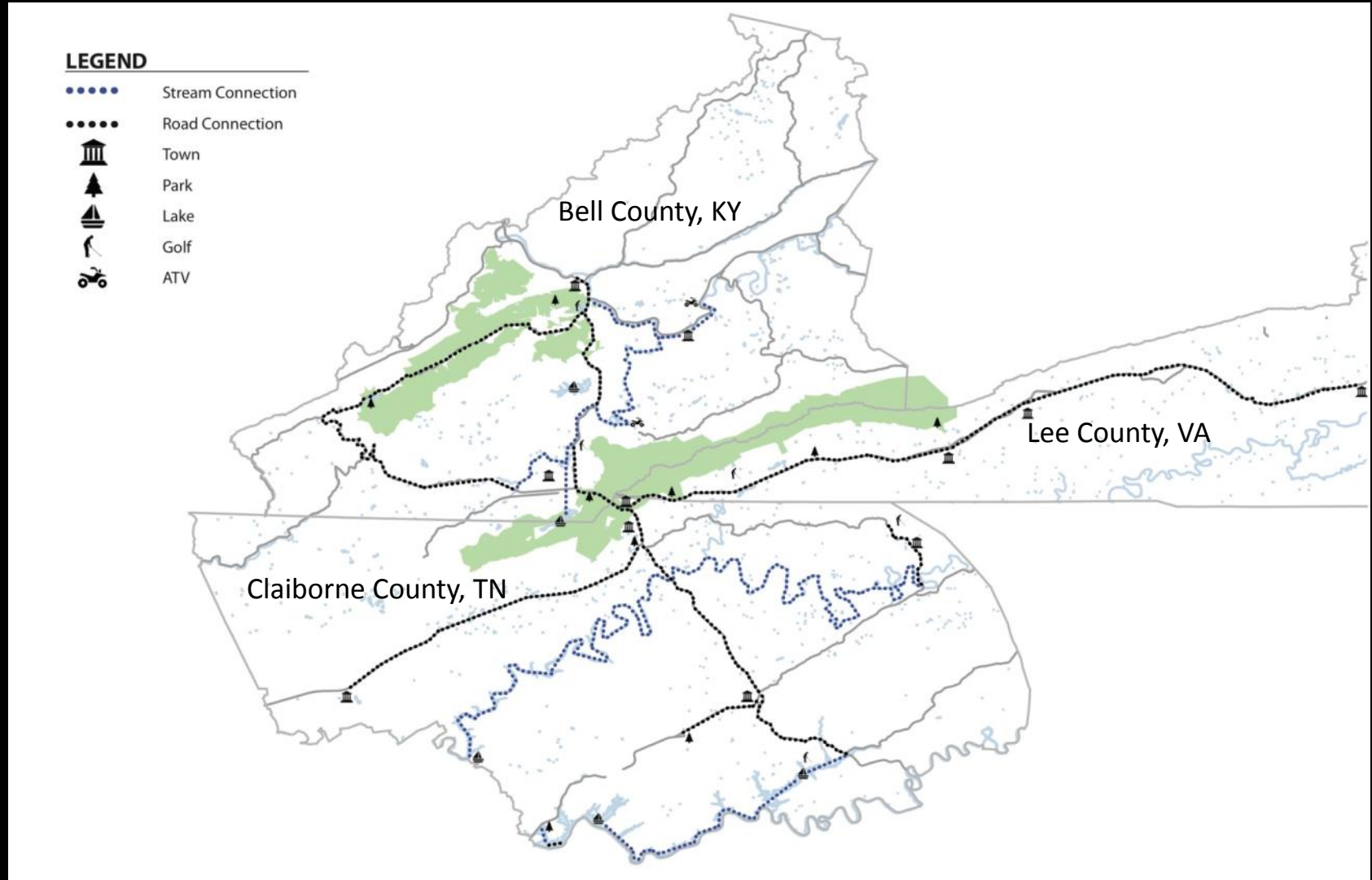
# Inventory, Analysis, & Research



(Data Source: Kentucky Geography Network, 2014)

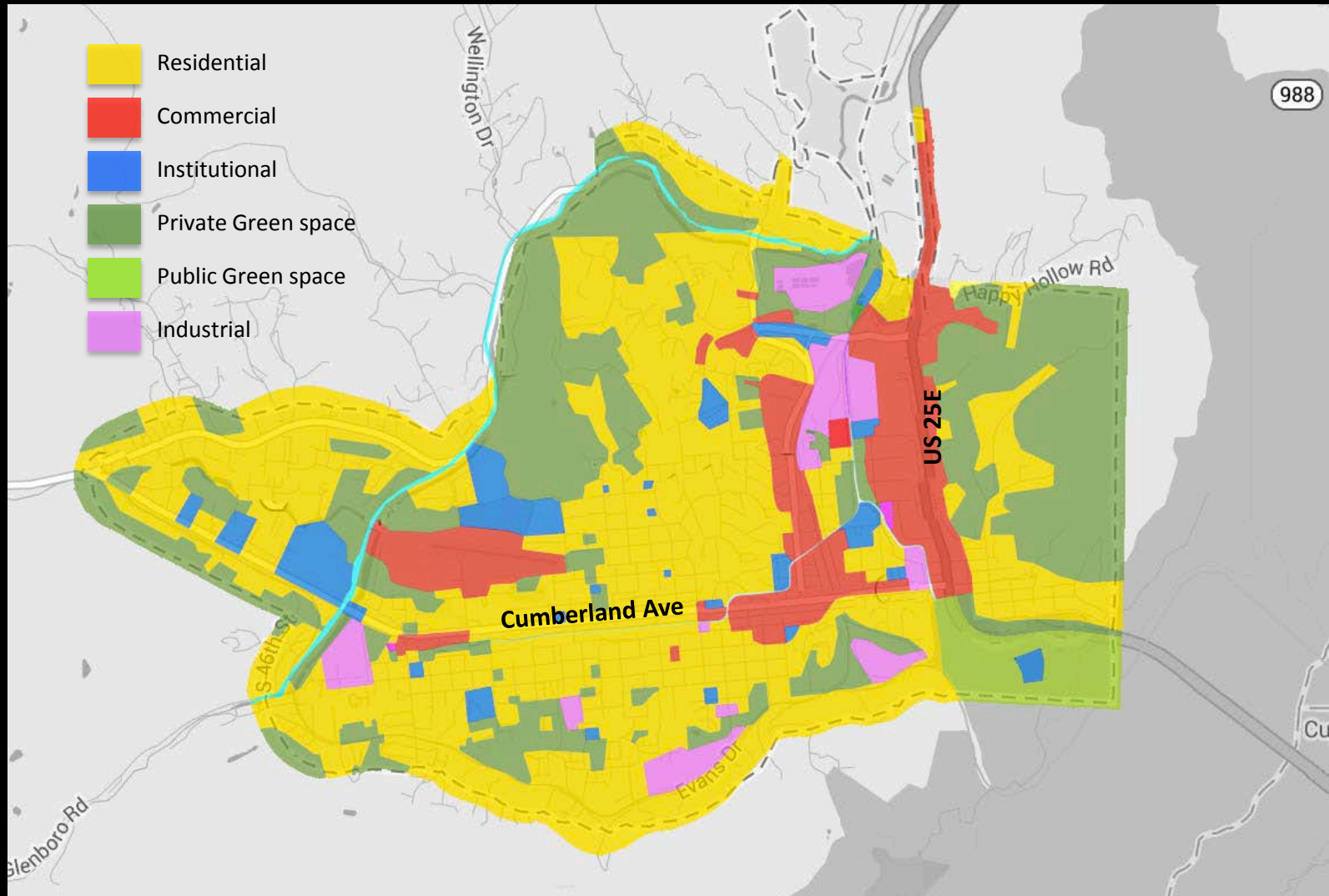


## Regional Connection Opportunities



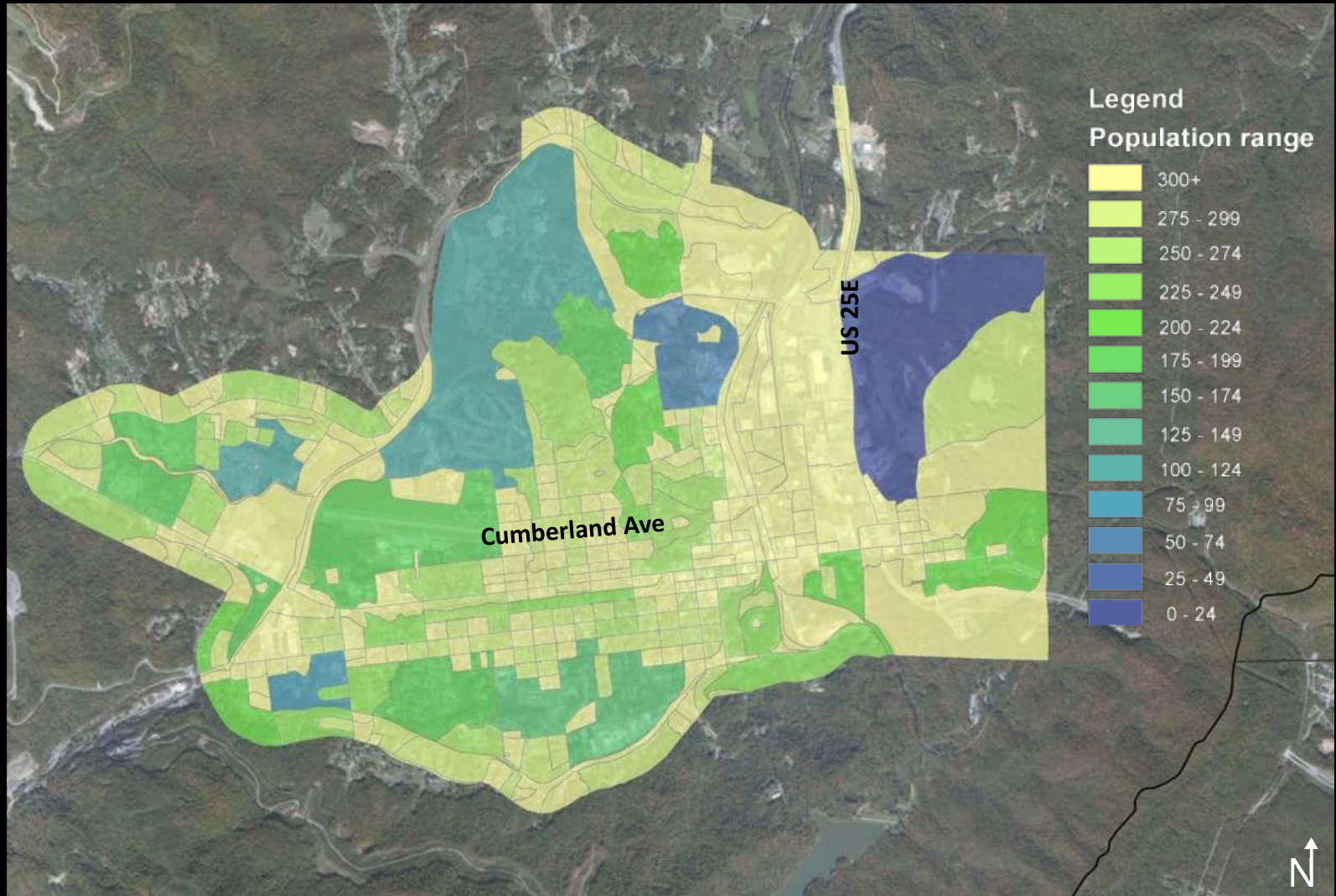


## Land Use





## Population Density

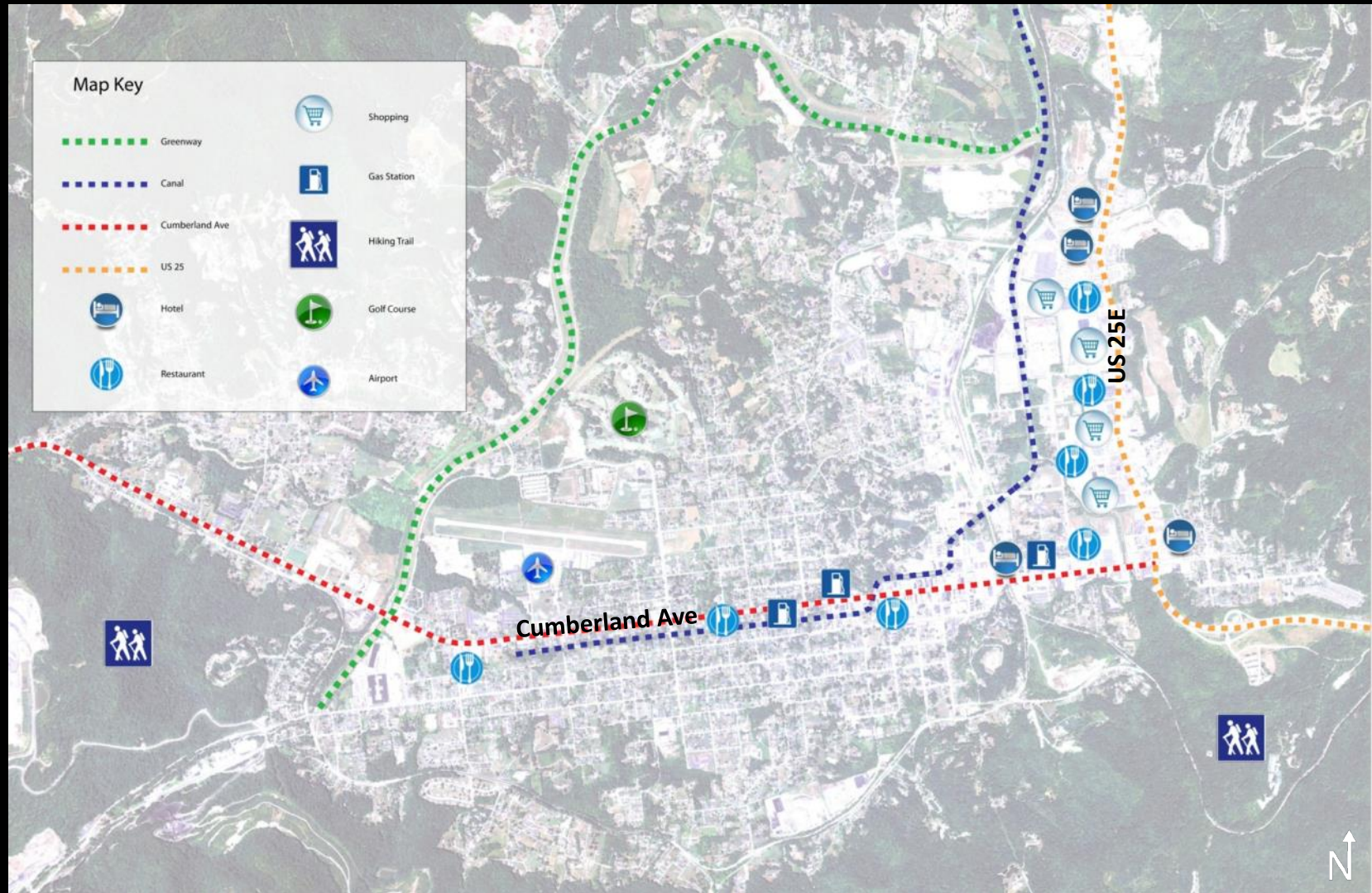




# Inventory, Analysis, & Research



## Existing Tourism Amenities



(Data Source: Kentucky Geography Network, 2014; Google Maps, 2014)





# Inventory, Analysis, & Research



## Boone Trace

- March 19, 1775
- Historically significant for Kentucky
- First road west of Appalachian Mountains
- Allowed settlements to be formed in the West
- Trail passes through Middlesboro
- Important Trail Markers
  - Stone atop Flat Lick
  - Colson House (Oldest House in Bell County)
  - Pyramid at the Saddle of the Gap
  - Indian Rock
  - The Narrows Marker

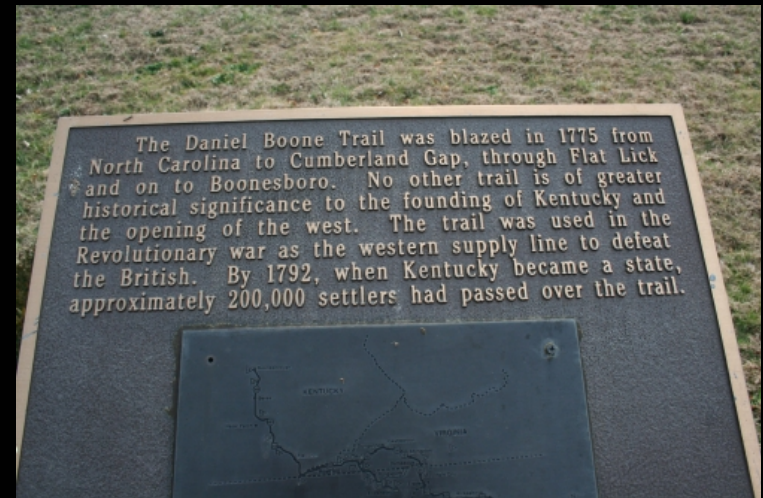
(Source: Boone Trace 1775, 2013; The Boone Society, 2012)



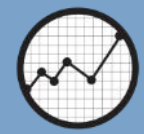
(Source: <http://www.danielboonetrail.com/history.php>)



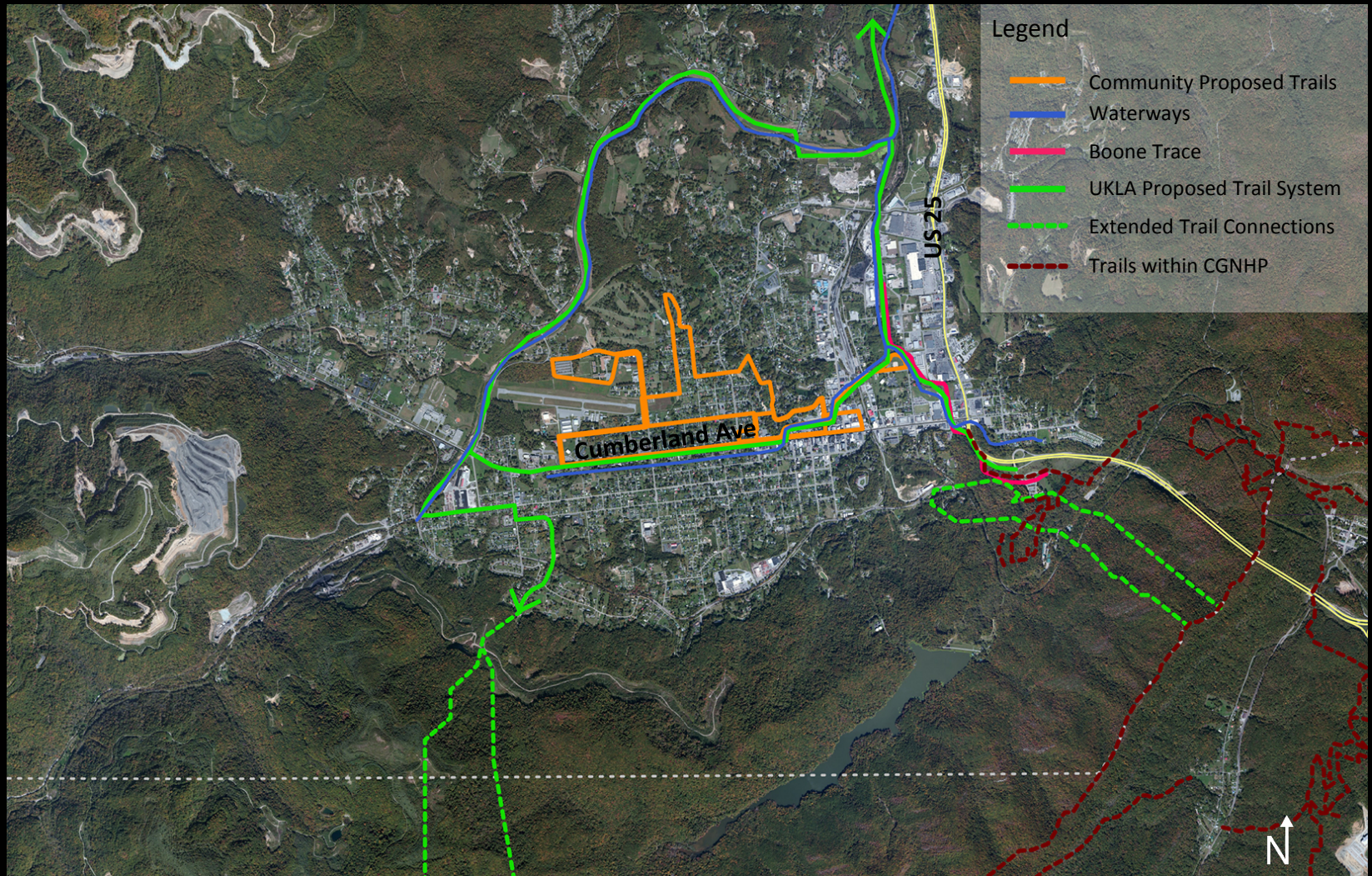
(Source: [http://www.everytrail.com/trip\\_pictures.php?trip\\_id=1489835&code=](http://www.everytrail.com/trip_pictures.php?trip_id=1489835&code=))



(Source: <http://www.boonetrace1775.com/history/significance.php>)

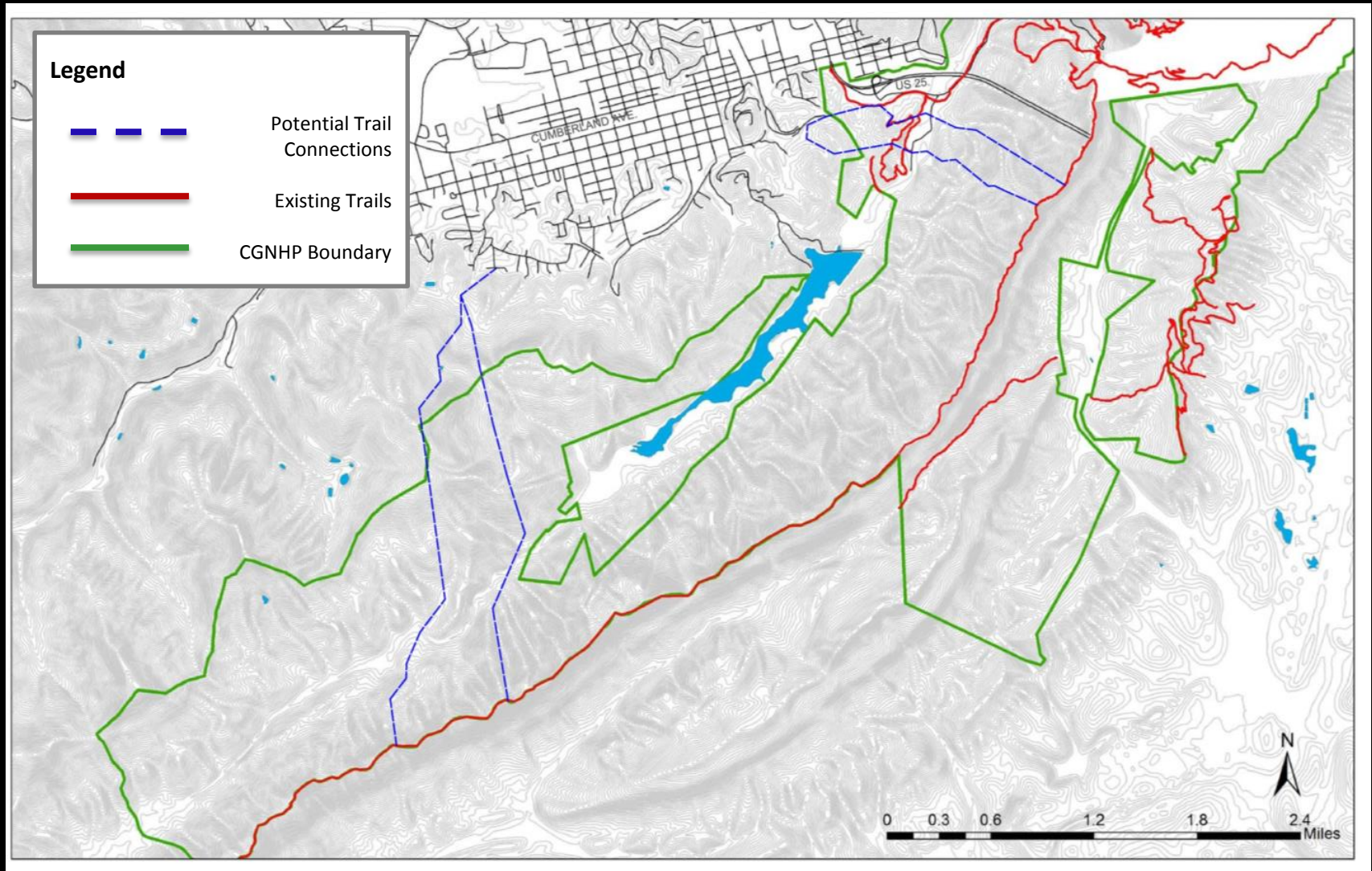


## Potential Trail System





## Cumberland Gap National Historical Park Connectivity Opportunities





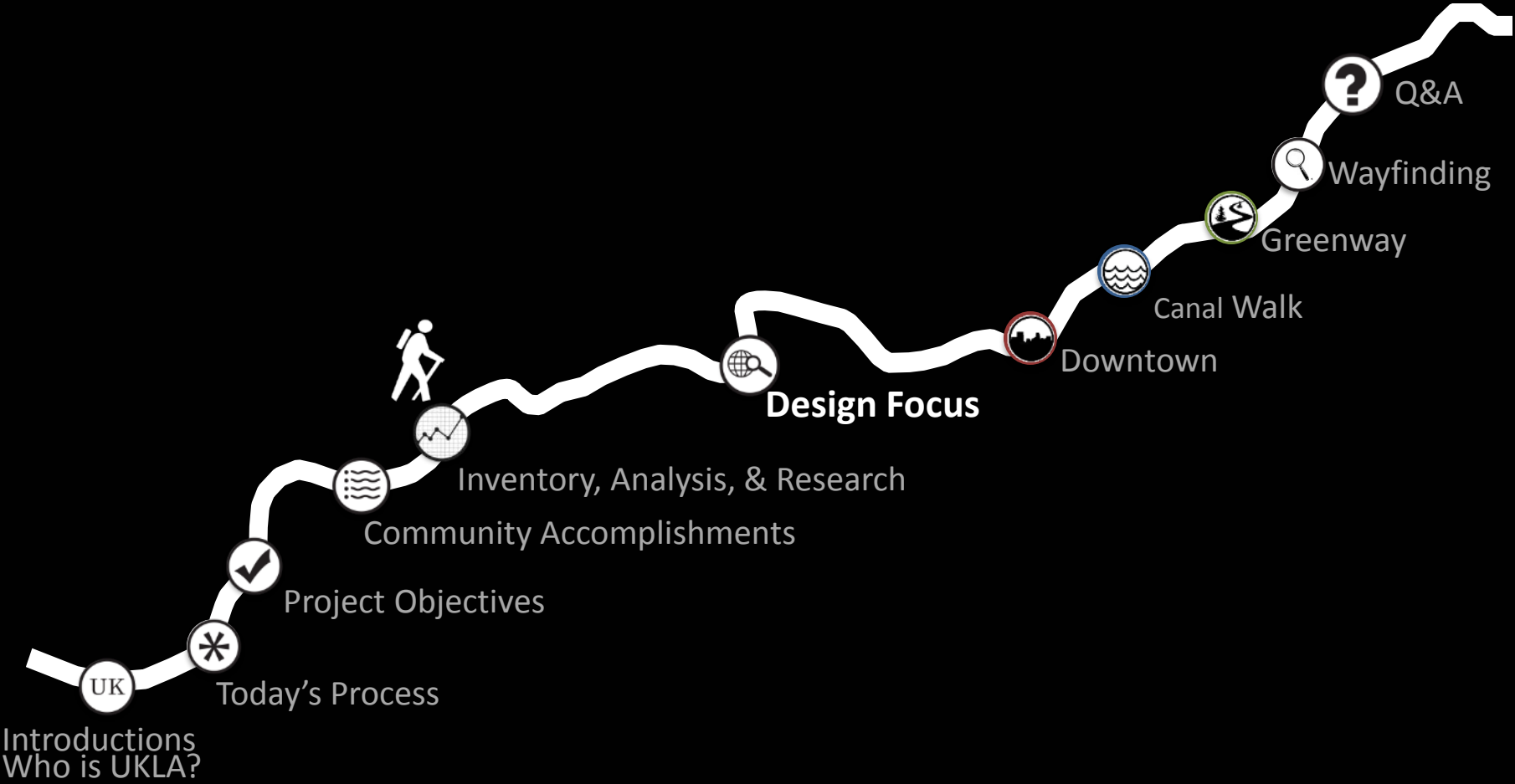
# Inventory, Analysis, & Research



## Summary

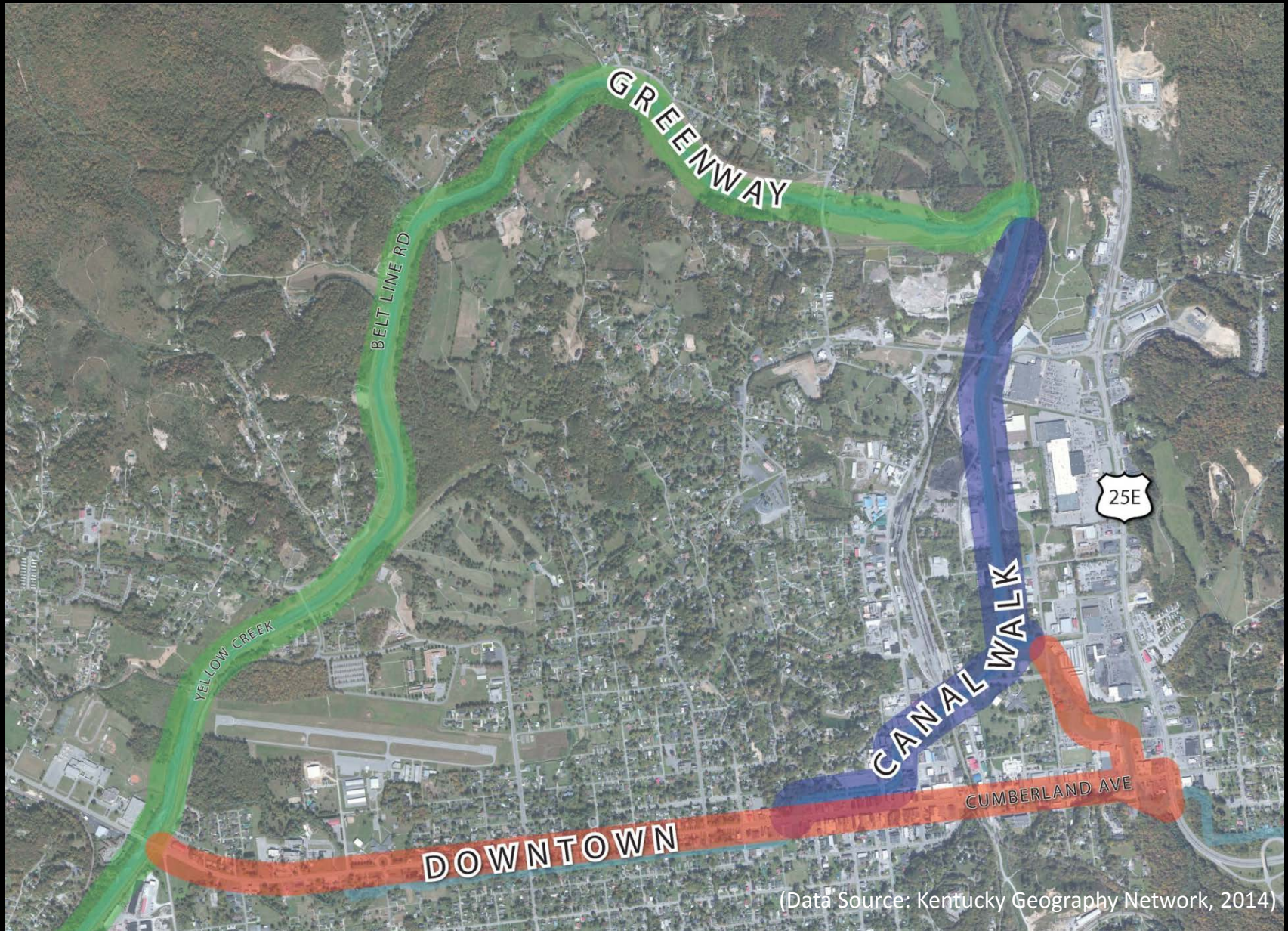
- Connections
  - Historical
  - Regional
  - Local
  - National Park
  
- Revitalization
  - Downtown Core
  - Tourism
  - Boone Trace
  - Public Green Space

# Presentation Outline

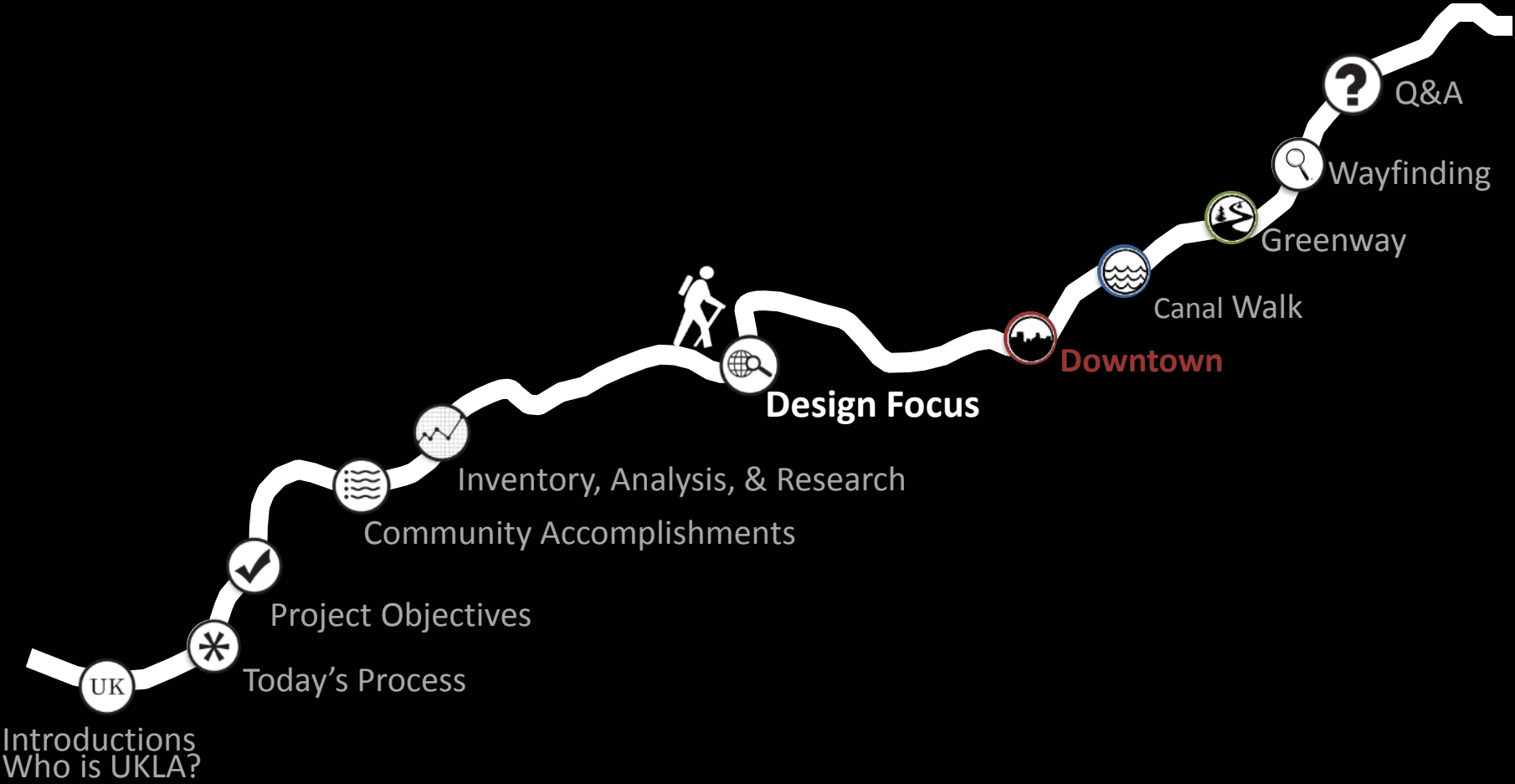




# Design Focus



# Presentation Outline





# Downtown







# Downtown – Indianapolis Cultural Trail Case Study



## Project Name

Indianapolis Cultural Trail

## Location

Indianapolis, Indiana (USA)

## Date Designed

2001-2005

## Construction Completed

May 2013

## Construction Cost

\$63 Million

## Landscape Architect

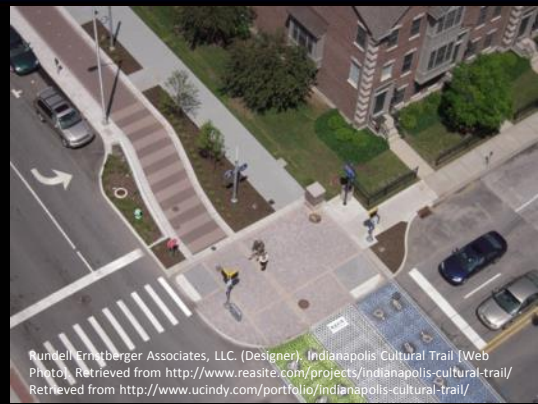
Rundell Ernstburger Associates

## Developer | Client

City of Indianapolis Department of Public Works

## Manager

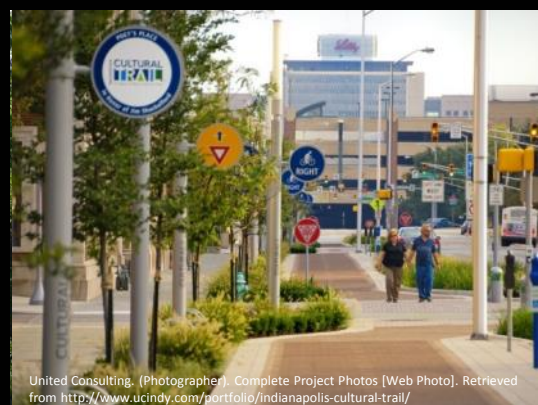
Brian Pierse & Carl Kincaid



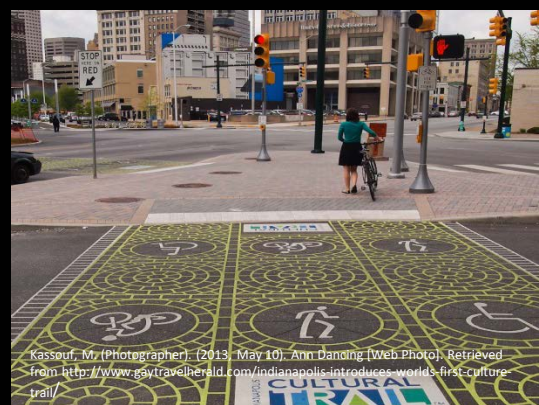
Rundell Ernstberger Associates, LLC. (Designer). Indianapolis Cultural Trail [Web Photo]. Retrieved from <http://www.reasite.com/projects/indianapolis-cultural-trail/>  
Retrieved from <http://www.ucindy.com/portfolio/indianapolis-cultural-trail/>



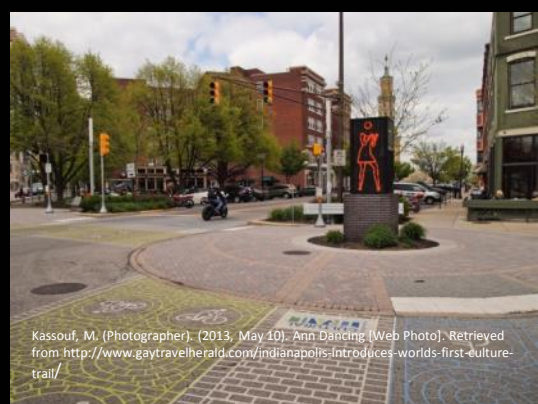
Rundell Ernstberger Associates, LLC. (Designer). Glick Peace Walk [Web Photo]. Retrieved from <http://www.reasite.com/projects/glick-peace-walk/>



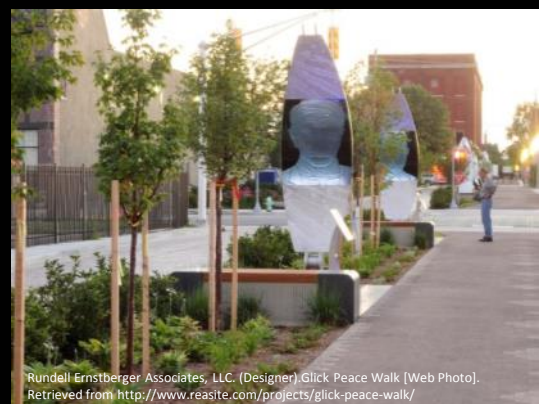
United Consulting. (Photographer). Complete Project Photos [Web Photo]. Retrieved from <http://www.ucindy.com/portfolio/indianapolis-cultural-trail/>



Kassouf, M. (Photographer). (2013, May 10). Ann Dancing [Web Photo]. Retrieved from <http://www.gaytravelherald.com/indianapolis-introduces-worlds-first-culture-trail/>



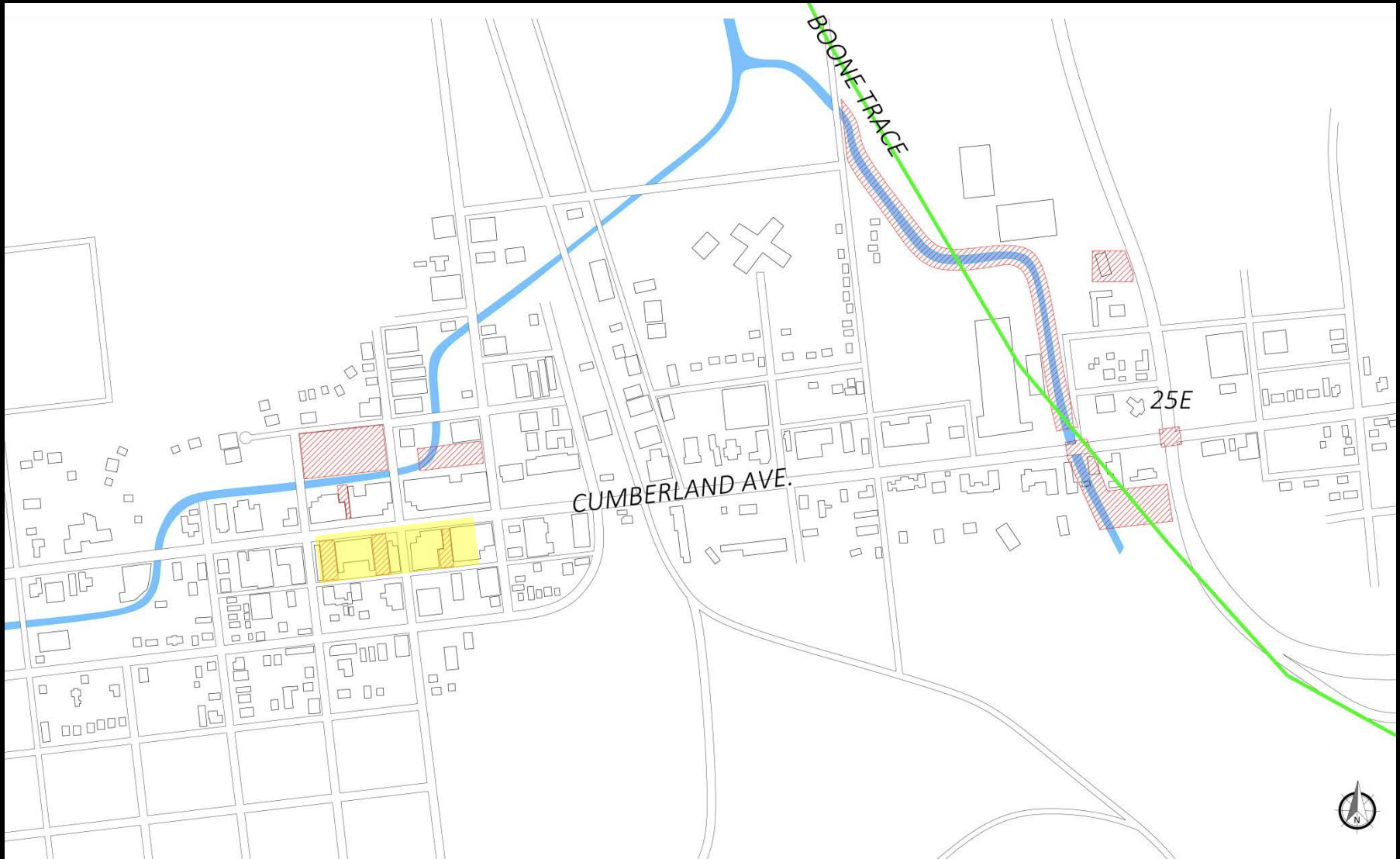
Kassouf, M. (Photographer). (2013, May 10). Ann Dancing [Web Photo]. Retrieved from <http://www.gaytravelherald.com/indianapolis-introduces-worlds-first-culture-trail/>



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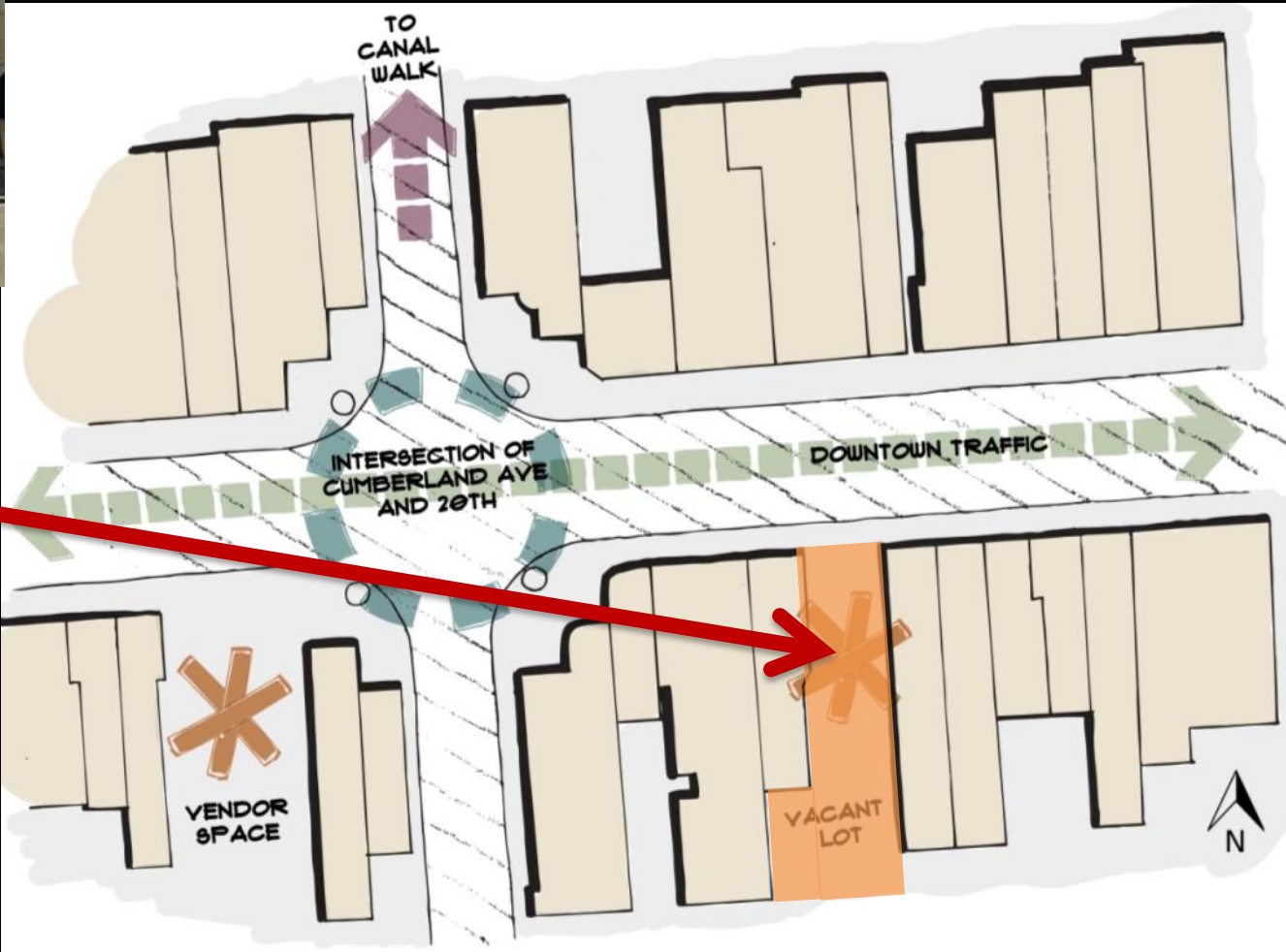
Areas of Interest





## Pocket Park Concept Diagram

Analysis: Intersection of 20<sup>th</sup> and Cumberland Ave.



### Existing Site

Vacant lots with potential for development were identified including an infill lot, which is an ideal place for a small pocket park.

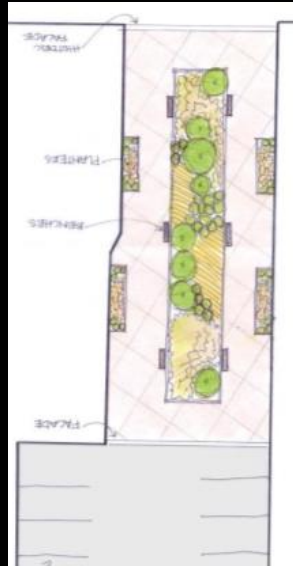


## Pocket Park Refined Concept Diagram



[http://www.fairfaxcounty.gov/tysons/design/download/6\\_udg\\_parks.pdf](http://www.fairfaxcounty.gov/tysons/design/download/6_udg_parks.pdf)

Inspiration



Alternative Design

## Proposed Design



<http://www.google.com/earth/>



<http://www.cityofmorgantown.com/Facilities/Facility/Details/Downtown-Pocket-Park-10>

Inspiration



## Proposed Pocket Park

Placing a façade veneer at the entrance to this park creates a unique feature and streetscape building continuity



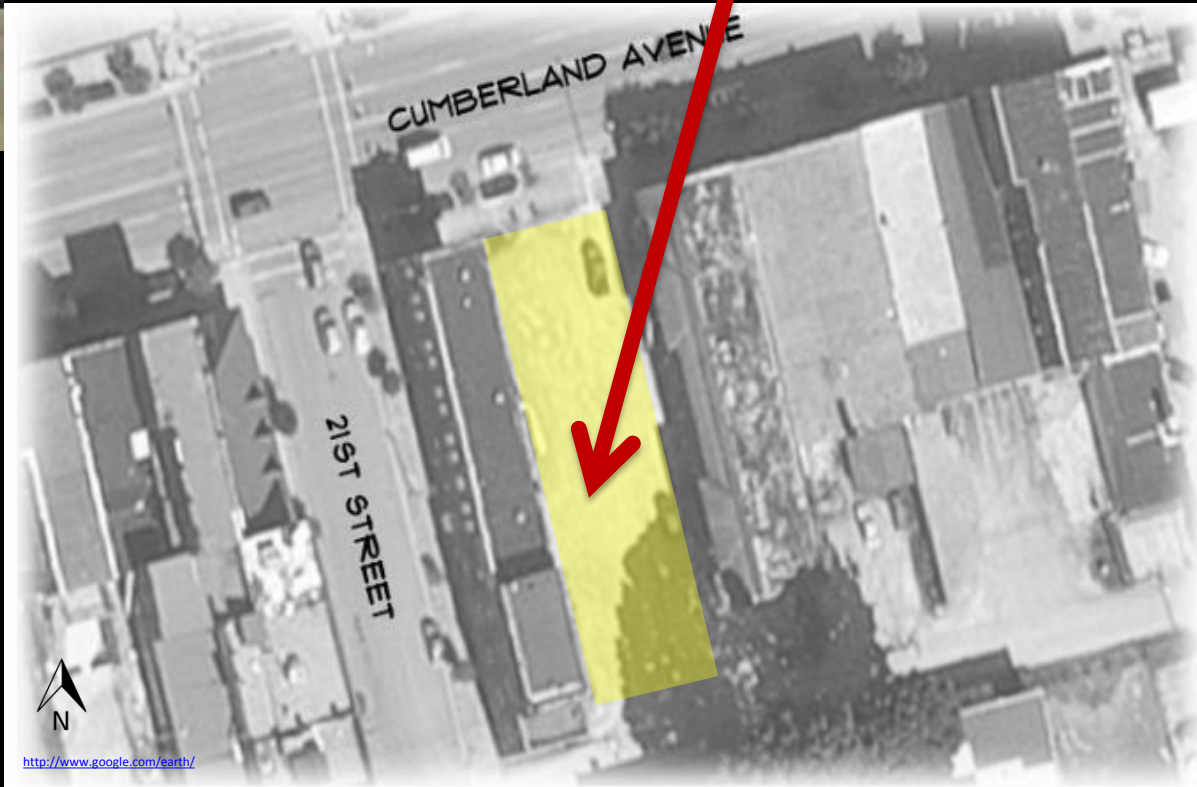


## Community Garden Concept Diagram

Identified vacant lot at 21<sup>st</sup> and Cumberland Ave. between two mixed use buildings. Ideal space for a community garden



Existing Site



- Provide sense of community
- Educational opportunity
- Produce food
- Added green space
- Inexpensive development
- Easy maintenance



## Refined Community Garden Concept Diagram

Gateway Entrance

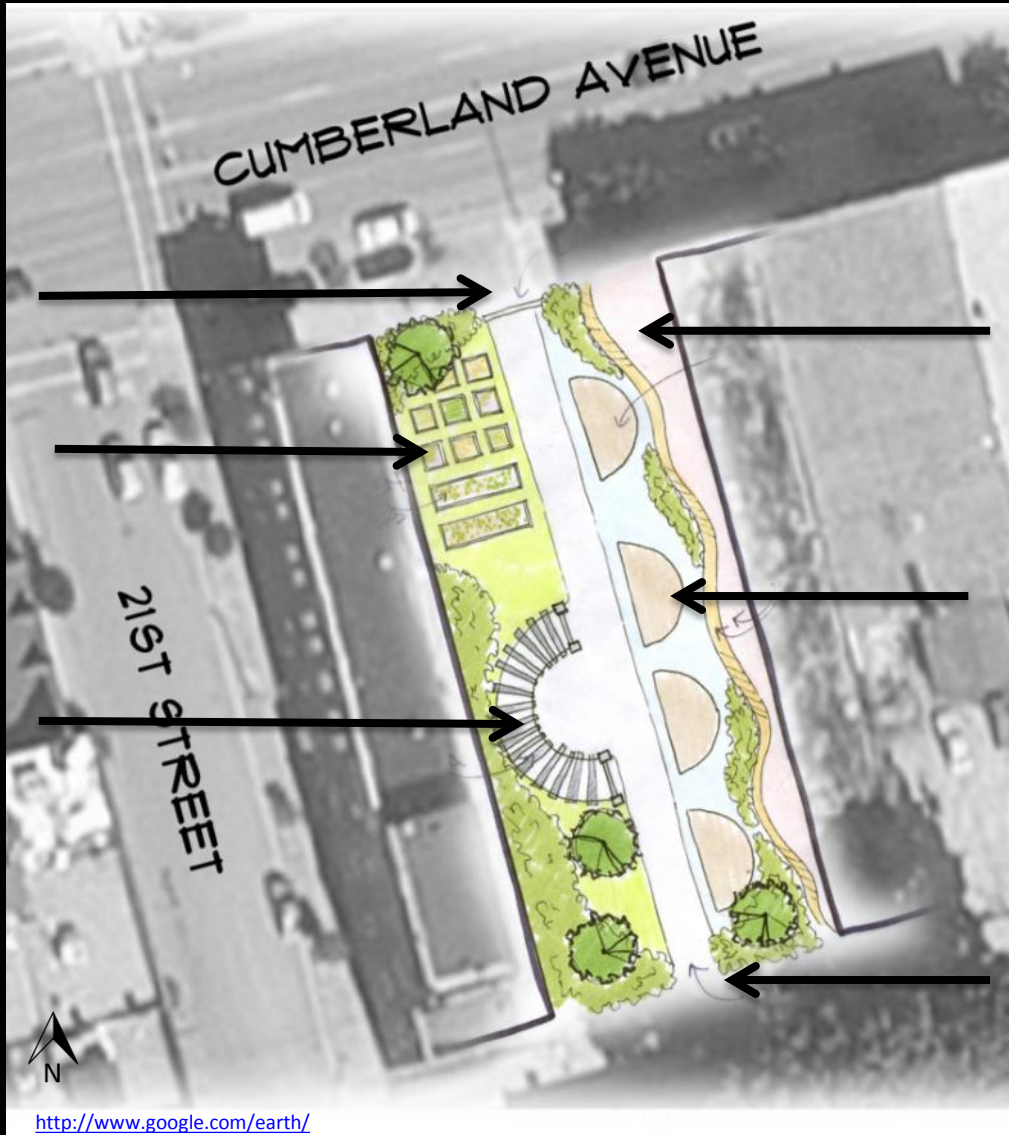
Raised Planters

Pergola Structure

Concrete Path for Tenants of Building

Educational Work Stations

Low Maintenance Pathway





## Proposed Community Garden



Community Garden Sketch



Alternative Design View





## Vendor Site Concept Diagram



Currently this site is mostly parking.

Small food vendor located on site.

Underutilized space.

Potential for gathering area for children in downtown Middlesboro.



## Existing appearance of Vendor site



(Data Source: Google Earth, 2014)

Street View from other side of Cumberland Ave.

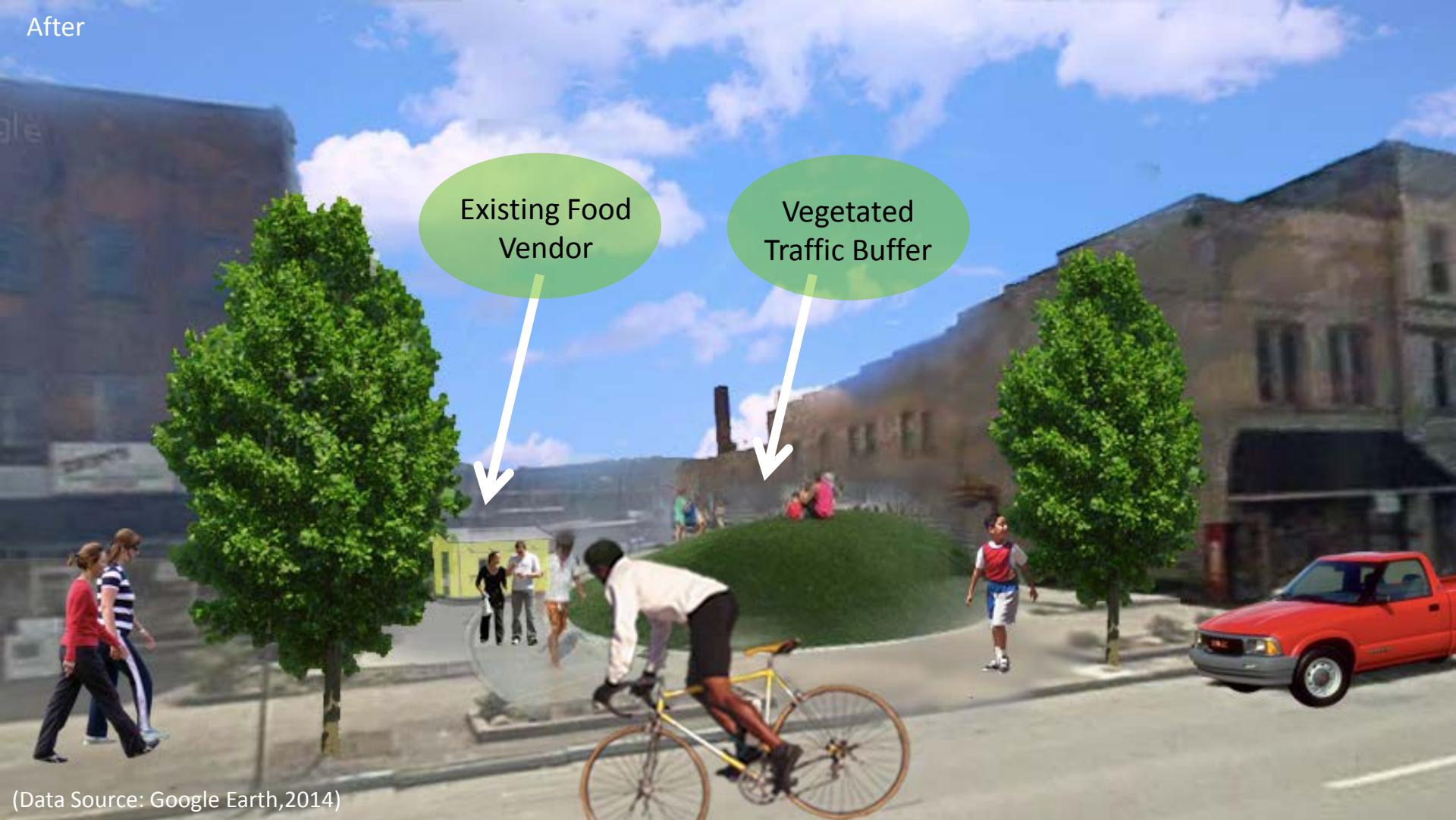


# Downtown



## Proposed Vendor site

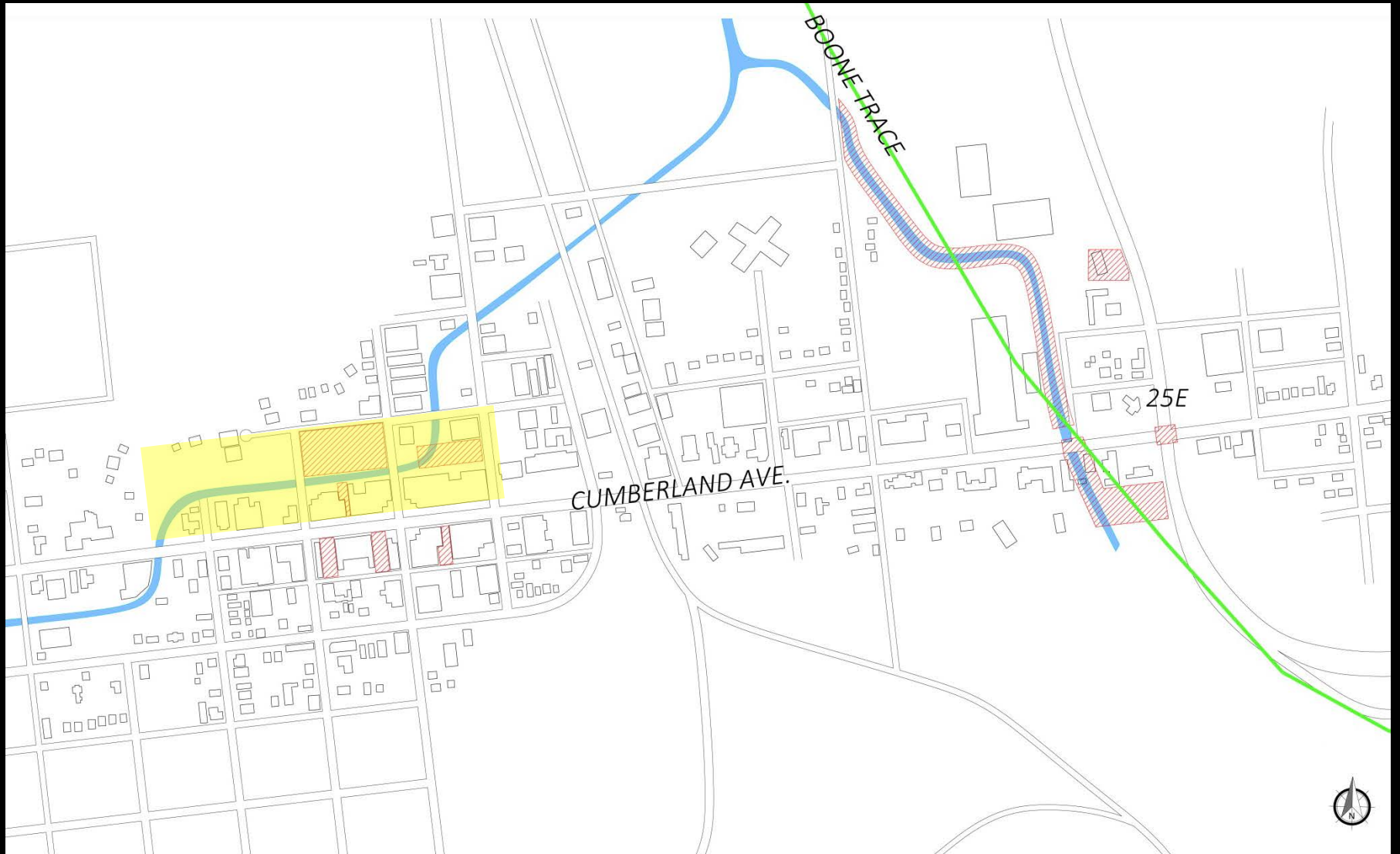
After



(Data Source: Google Earth, 2014)



### Canal Walk Area





## Canal Walk Area Concept Diagram



(Data Source: Google Earth, 2014)

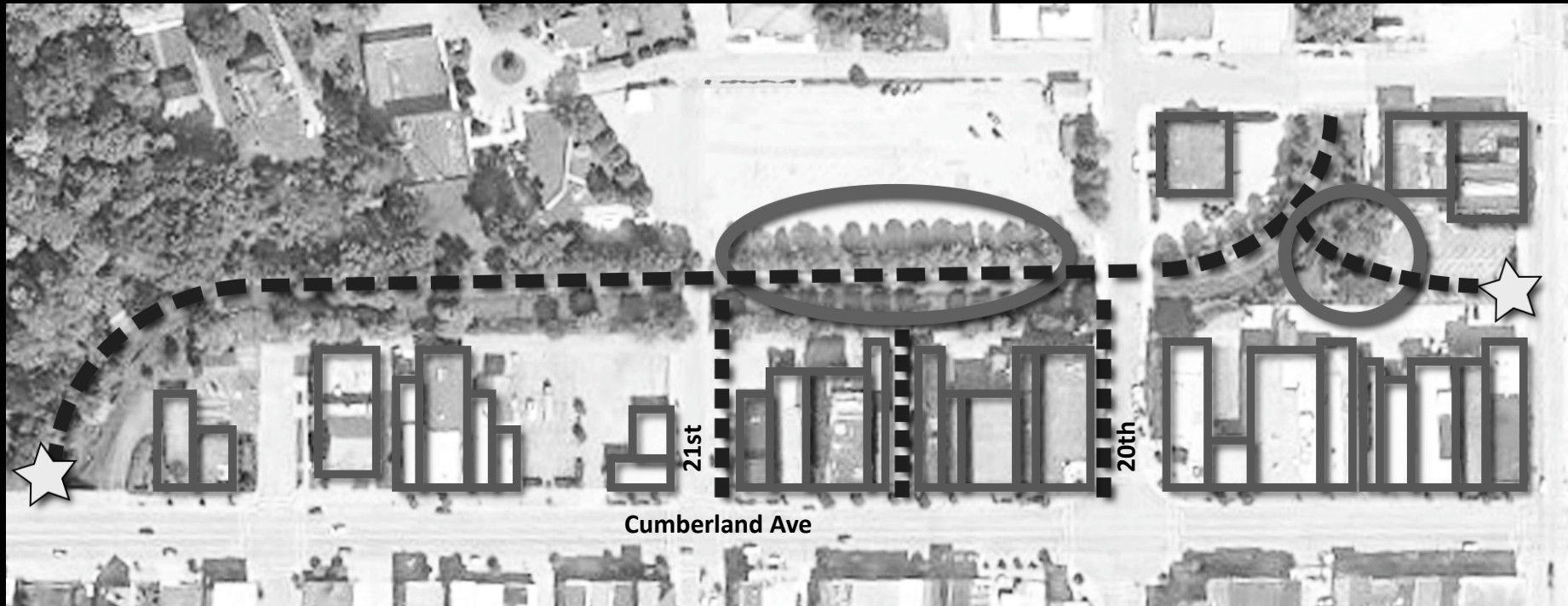
### Concept 1

- Provide access from Cumberland Ave
- Provide one area for programmable event space
- Create two access points to the Canal Walk which act as trail heads
- Create linkage from Court House to the Canal Walk
- Create clear and concise pathway along Canal Walk





## Canal Walk Area Concept Diagram



(Data Source: Google Earth, 2014)



### Concept 2

- Provide access from Cumberland Ave
- Provide two areas for programmable event space
- Create two access points to the Canal Walk which act as trail heads
- Create clear and concise pathway along Canal Walk



## Refined Canal Walk Area Concept Diagrams



### Concept 2 Refined

(Data Source: Google Earth, 2014)

- Linkages from either side of the Canal Walk
- Trail Heads to act as a formal entrance
- Areas for programmable event space
- Access to Canal Walk from Cumberland Ave





## Refined Canal Walk Area Concept Diagram



Pavilion Section





## Proposed Canal Walk Area

### Possible Trail Head

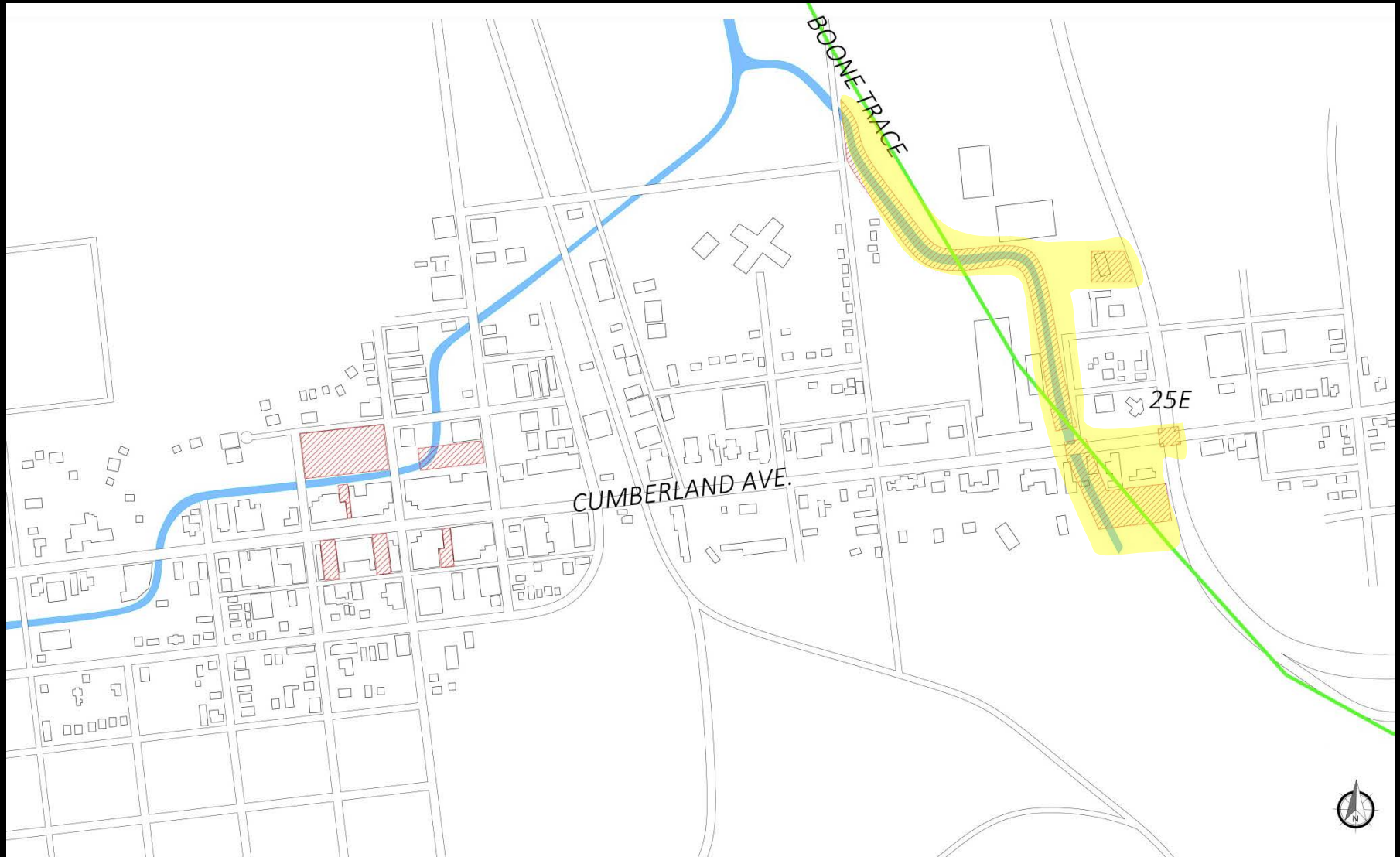


### Pedestrian Bridge & Event Area



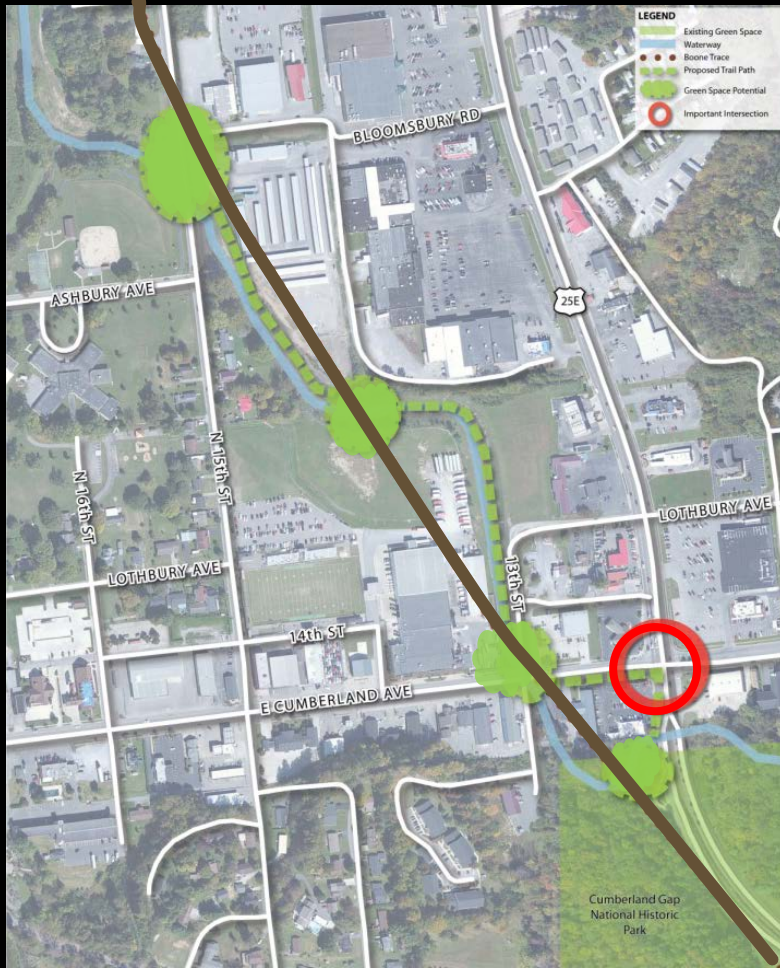


# Boone Trace/CGNHP Connections





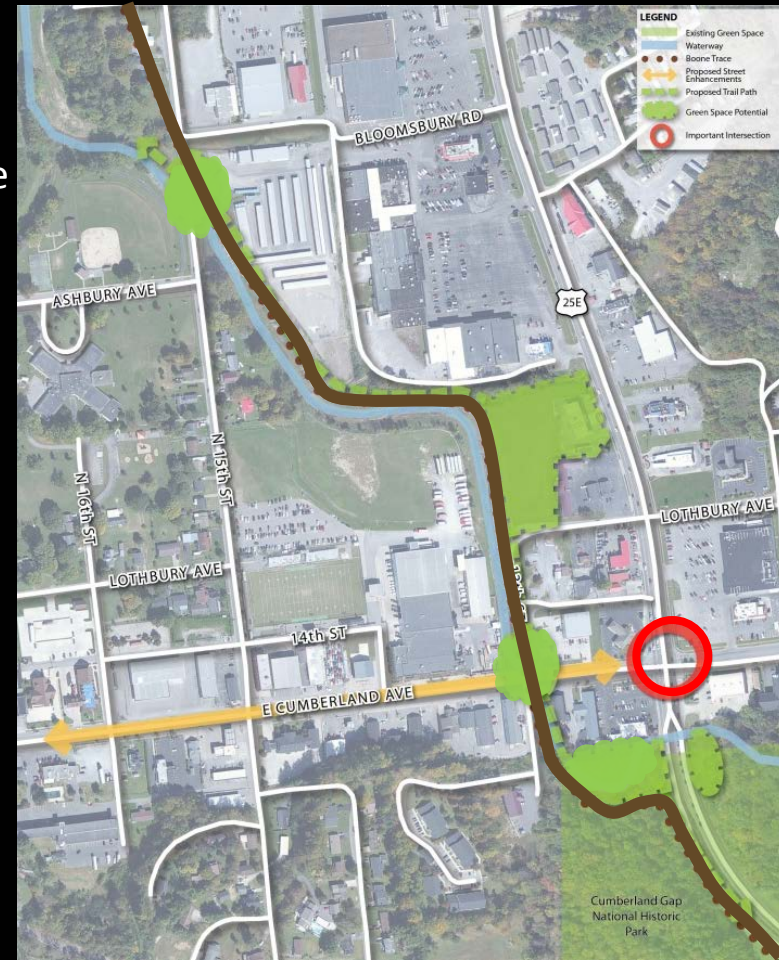
## Boone Trace/CGNHP Connection Concept Diagrams



Original Boone Trace route

Boone Trace Major Intersection opportunity

Canal Walk Connection



Concept 2

Concept 1

(Data Source: Google Earth, 2014)

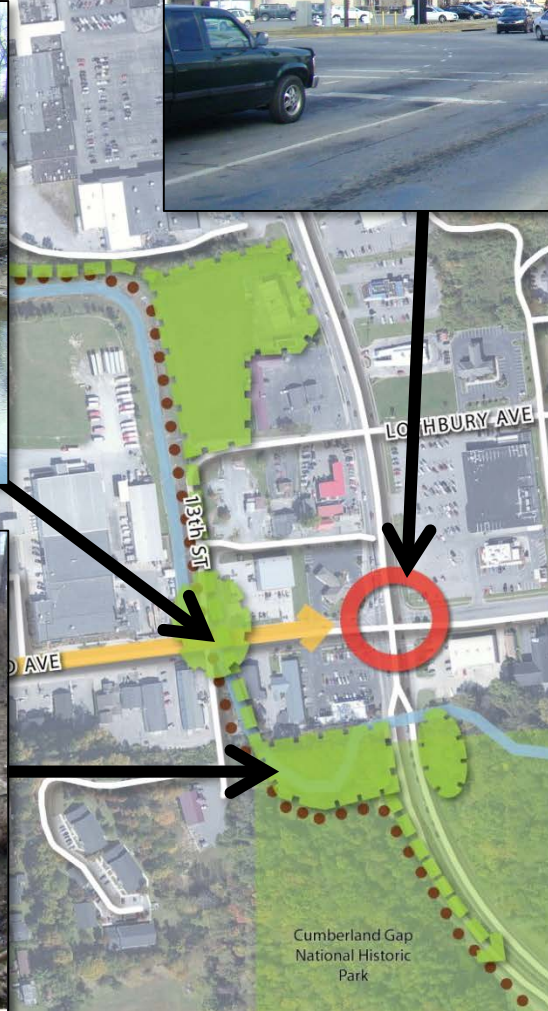


## Existing Conditions





## Existing Conditions





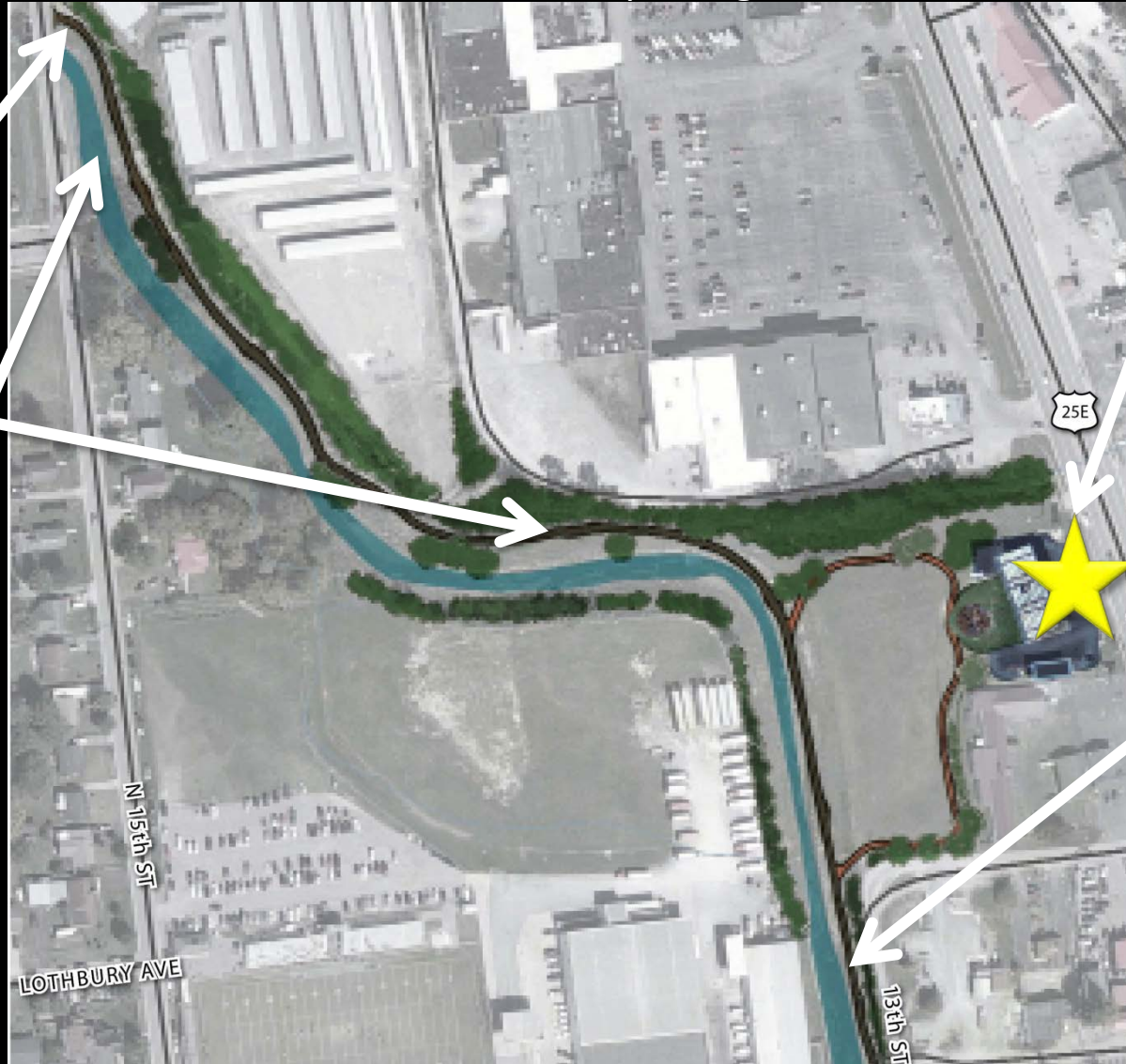
## Refined Boone Trace/CGNHP Connection Concept Diagram

Connection to  
Canal Walk

Boone Trace  
Connections

Public Green  
Space/ Visitor  
Center  
Opportunity

Connection to  
Downtown &  
CGNHP



(Data Source: Google Earth, 2014)



Existing Shell lot

Empty Car Wash Building

Vacant Shell Station Building/Lot

Unused Field  
No Marked Canal Walk/  
Boone Trace Trail



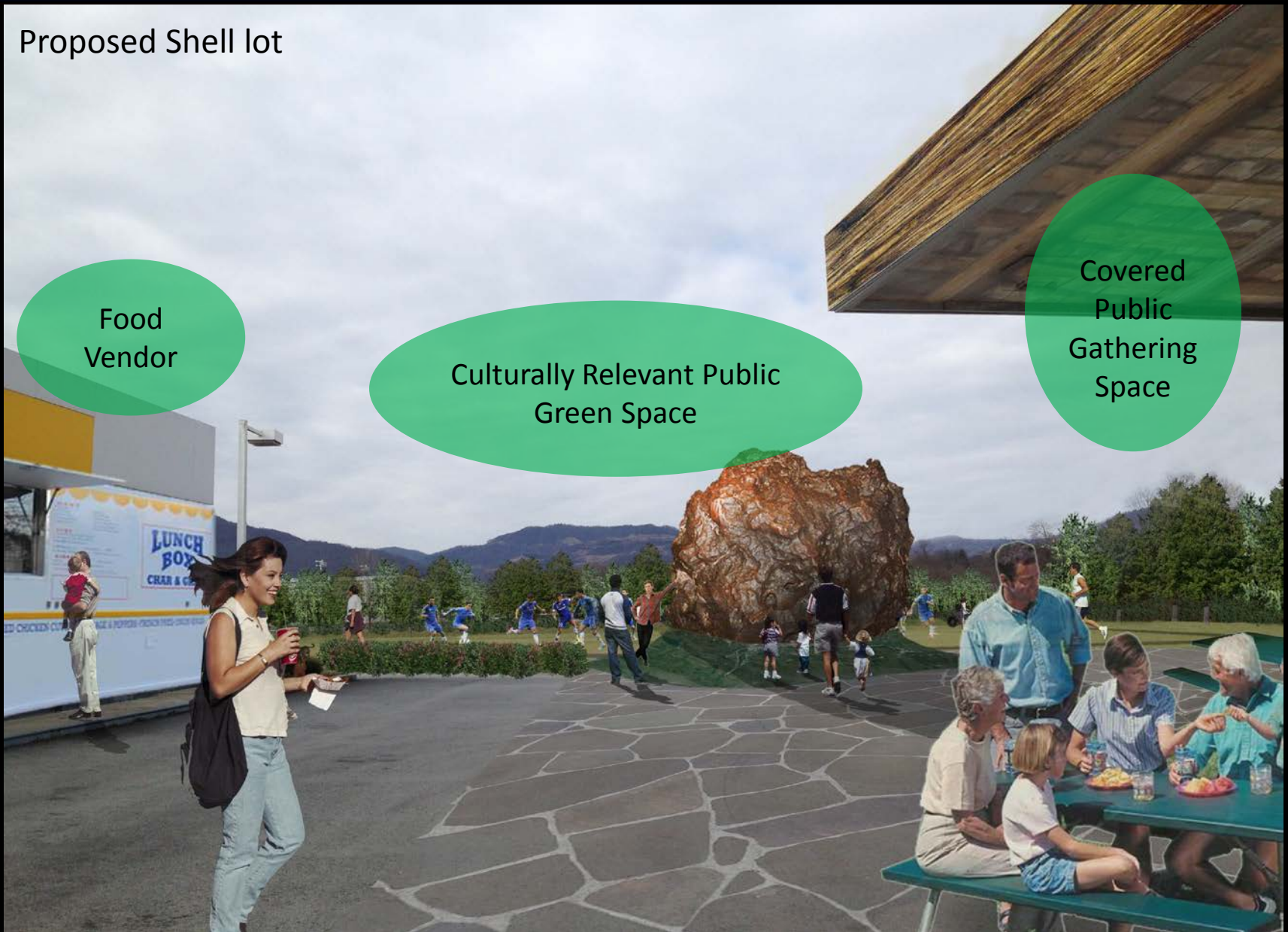


## Proposed Shell lot

Food Vendor

Culturally Relevant Public Green Space

Covered Public Gathering Space







## Refined Boone Trace/CGNHP Connection Concept Diagram

Canal Walk  
Connection

Public Art  
Opportunities



(Data Source: Google Earth, 2014)



## Existing 13<sup>th</sup> Street Conditions



Unightly  
Traffic Buffer

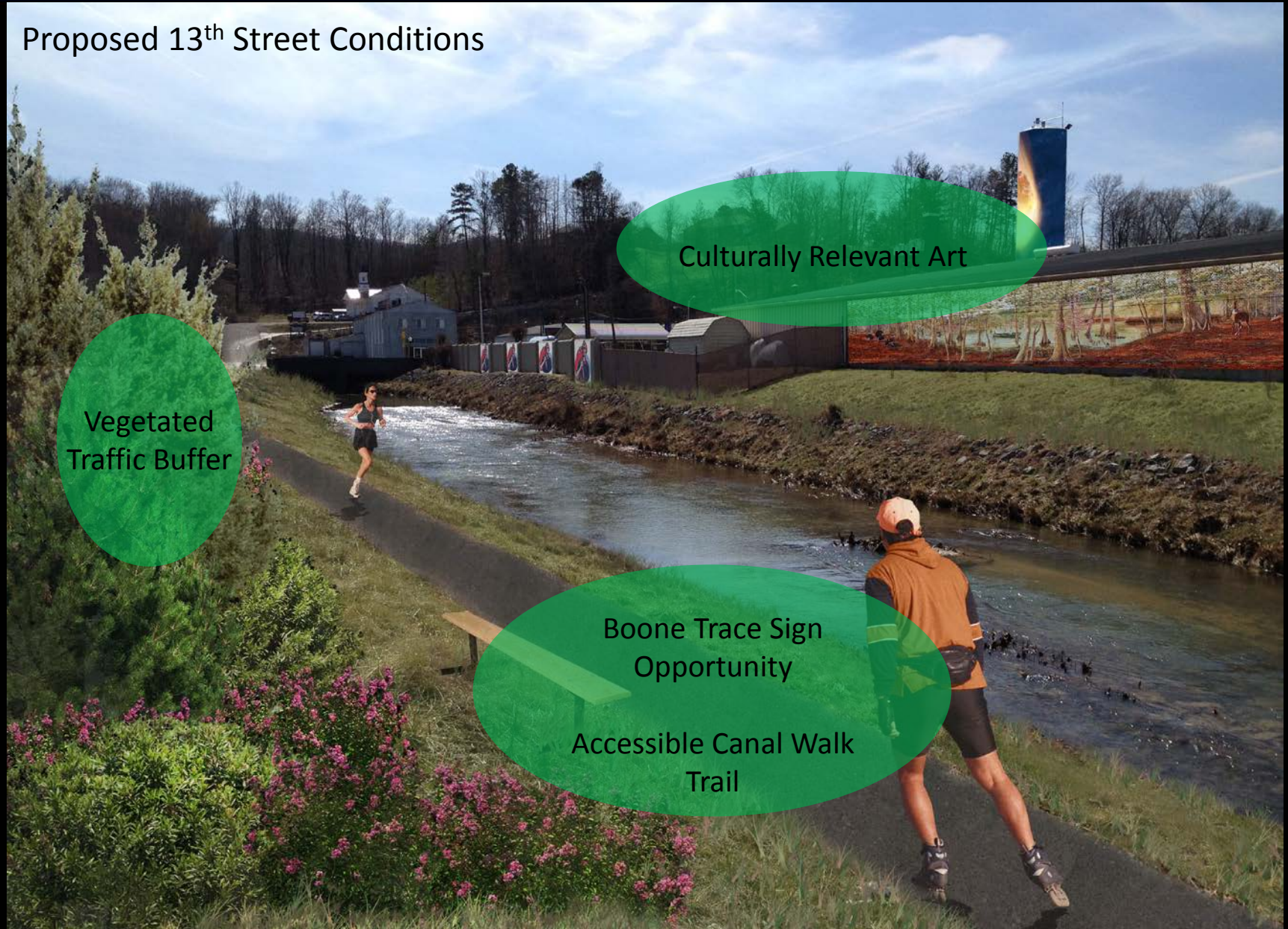
Blank Walls  
No Visual Interest

No Boone Trace  
Reference

Inaccessible  
Canal Walk Trail



## Proposed 13<sup>th</sup> Street Conditions



Vegetated  
Traffic Buffer

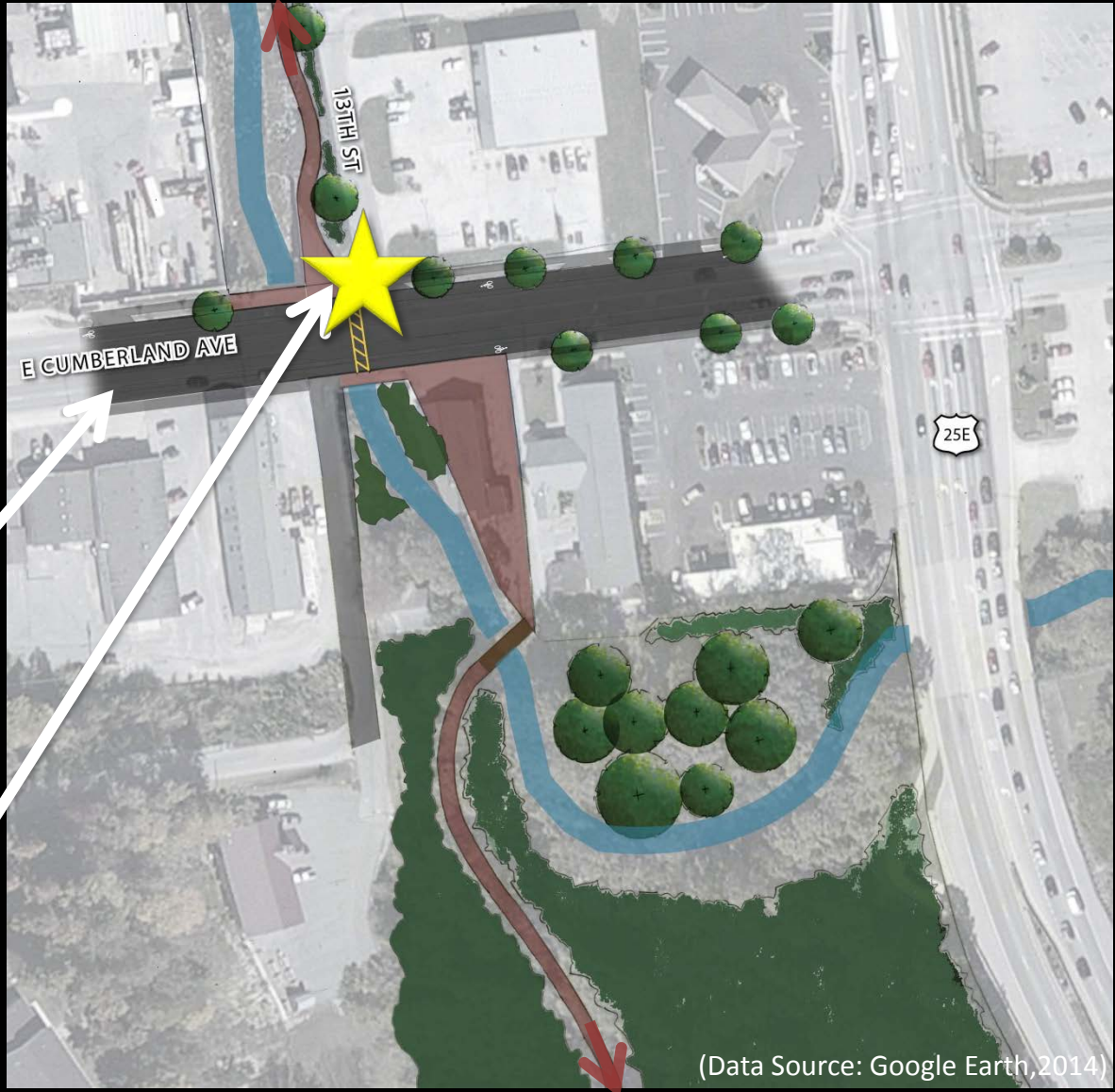
Culturally Relevant Art

Boone Trace Sign  
Opportunity

Accessible Canal Walk  
Trail



# Refined Boone Trace/CGNHP Connection Concept Diagram



Streetscape Improvement Opportunities

Boone Trace Connections

(Data Source: Google Earth, 2014)



## Existing Cumberland Ave Boone Trace Connection



Blank Walls  
No Visual Interest

Inaccessible  
Sidewalks

No Pedestrian  
Crossing

No Trail Network  
Reference

No Directional  
Information



## Proposed Cumberland Ave Boone Trace Connection

Culturally Relevant  
Community Art

CANAL WALK  
3.5 MI

← INNER LOOP →

Cumberland Gap  
National Historical Park

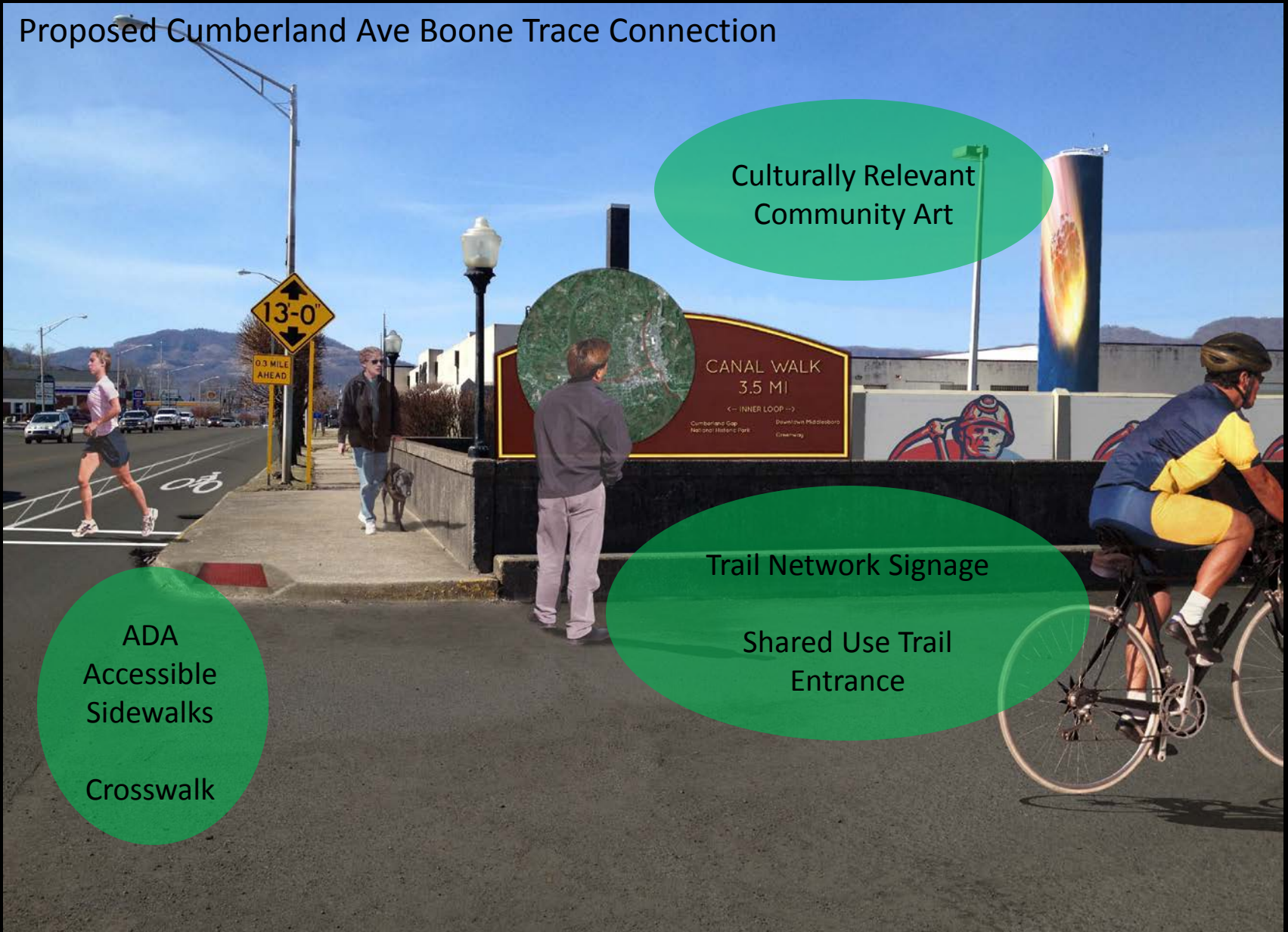
Druidtown Middleburg  
Firearmery

Trail Network Signage

Shared Use Trail  
Entrance

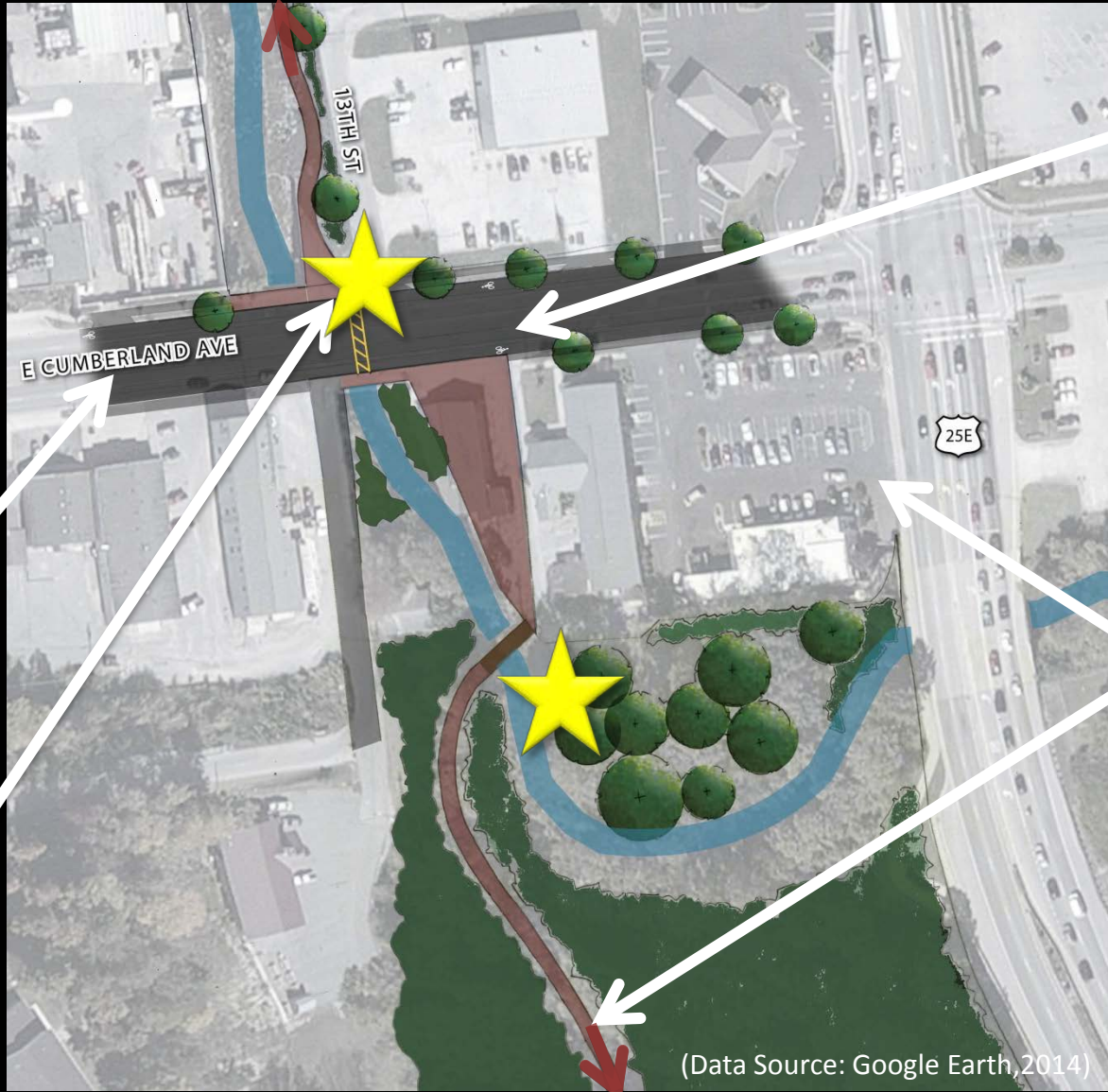
ADA  
Accessible  
Sidewalks

Crosswalk





## Refined Boone Trace/CGNHP Connection Concept Diagram



Streetscape  
Improvement  
Opportunities

Boone Trace  
Connections

Signage  
Wayfinding  
Opportunity

Cumberland Gap  
Connections

(Data Source: Google Earth, 2014)




## Existing CGNHP Trail Connection







## Proposed CGNHP Trail Connection



Safe  
Access to  
CGNHP

Opportunity for Signage  
and Boone Trace Markers

Canal Walk/Boone Trace  
Connections

Park Maintenance  
Access



# Downtown – Cumberland Ave and 25th



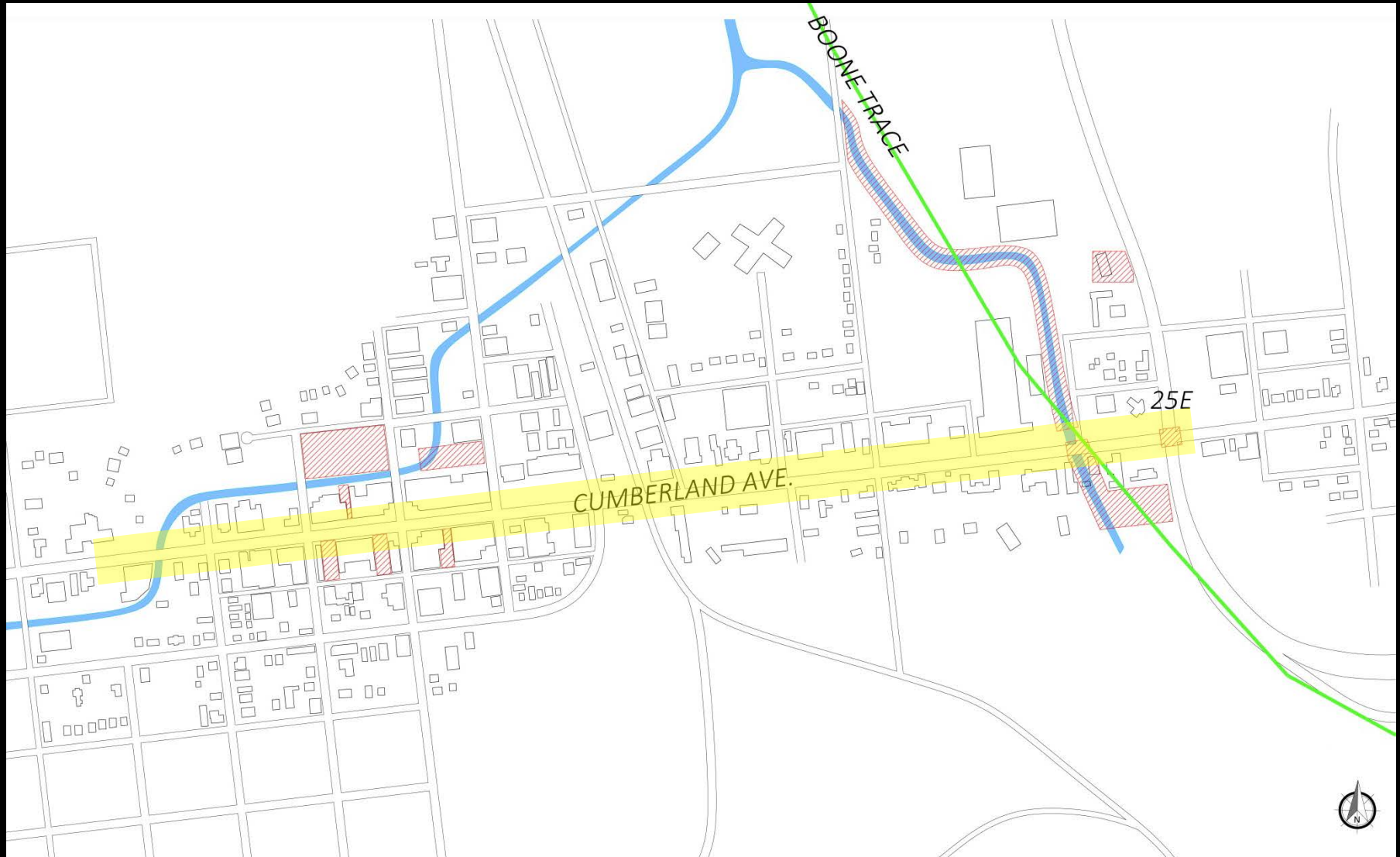
## Potential Icon Statue



Source: Community Member



# Cumberland Ave Complete Street

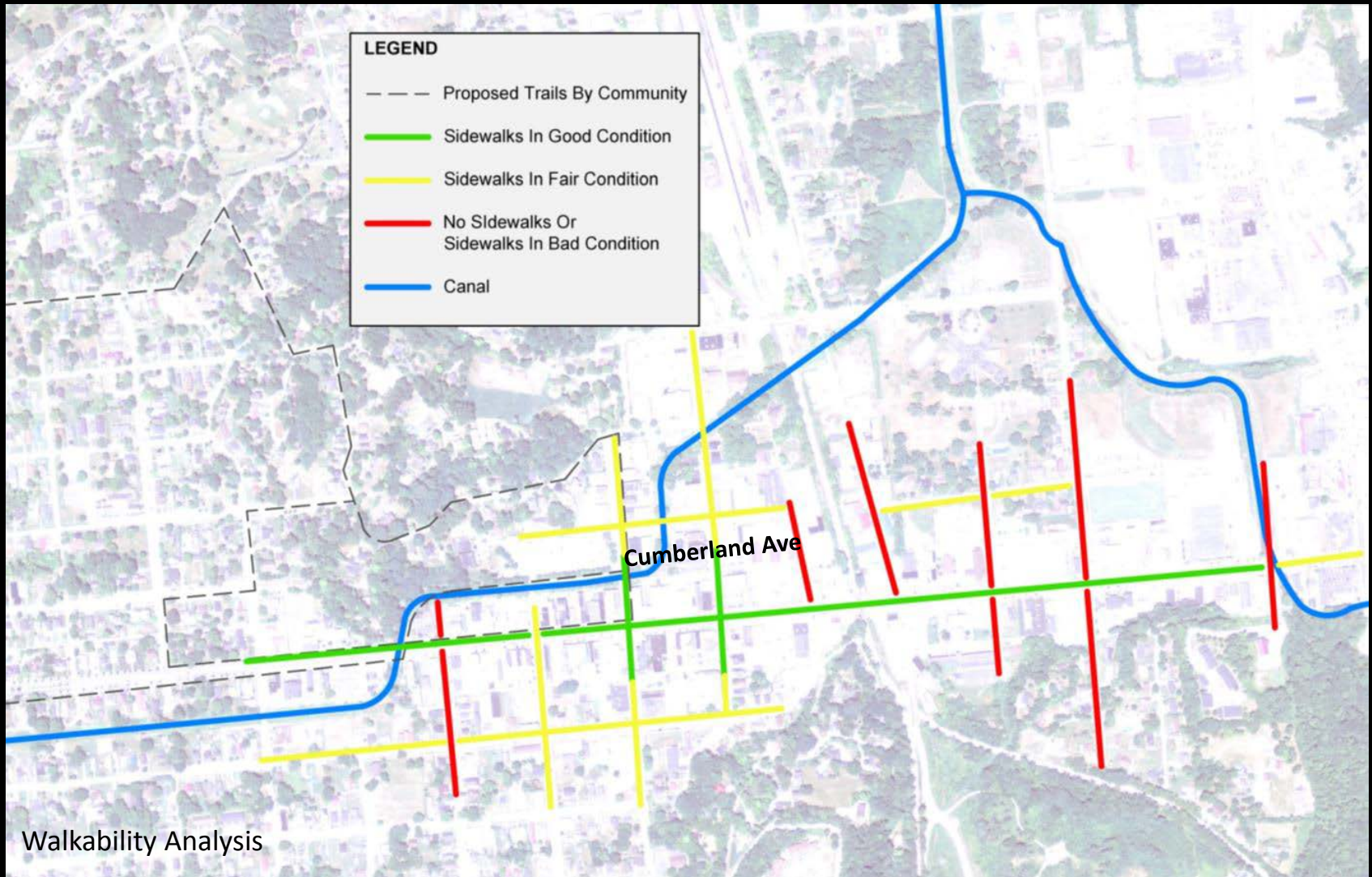




# Downtown - Walkability



## Walkability Analysis





# Downtown – Complete Streets



## Green features of Complete Streets



Increased cycling accessibility through bike lanes.  
Offers users greater comfort along busy roadways.



[http://sf.streetsblog.org/wp-content/uploads/2010/5\\_10/Market\\_St.\\_green\\_2\\_small.jpg](http://sf.streetsblog.org/wp-content/uploads/2010/5_10/Market_St._green_2_small.jpg)



ADA standards allow for increased safety and  
Universal access for Pedestrians.



[http://water.epa.gov/infrastructure/greeninfrastructure/images/gi\\_greenstreet\\_1.jpg](http://water.epa.gov/infrastructure/greeninfrastructure/images/gi_greenstreet_1.jpg)



Allows for less vehicular traffic on roads.  
Slower vehicular traffic can allow for  
increased safety and lower risk of accidents.



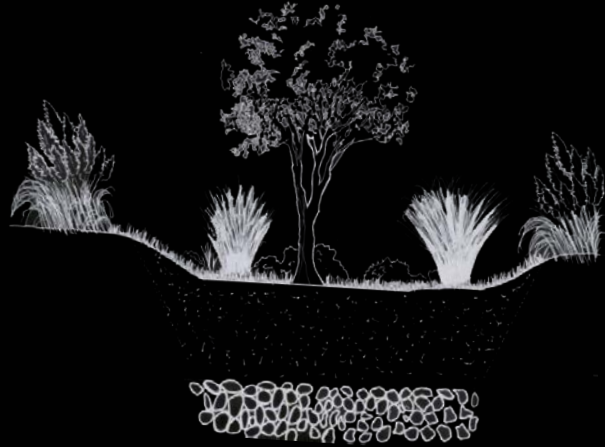
[http://www.ca-city.com/Images/CS\\_Fundamentals.jpg](http://www.ca-city.com/Images/CS_Fundamentals.jpg)



# Downtown – Complete Streets



## Green features of Complete Streets



Features such as rain gardens, bio-swales and other green space help to accommodate rain water.



<http://www.tececo.com/images/photographs/permecocrete/PerVIOUSPavement.JPG>

Alternative hardscape materials such as permeable pavers, pervious concrete and grass-crete help with water runoff as well.



[http://www.nativescapellc.com/images/projects/farmhills\\_big.jpg](http://www.nativescapellc.com/images/projects/farmhills_big.jpg)

Planting native species to the area can help to reduce cost and maintenance while still being aesthetically pleasing.



# Downtown- Complete Streets



Existing site conditions along Cumberland Ave.



Cumberland & 22nd



Cumberland & 25E






(Data Source: Google Earth, 2014)



# Downtown- Complete Streets



## Cumberland Ave Complete Streets Concept Diagram

- Residential Portion 
- Retail Portion 
- Industrial Portion 

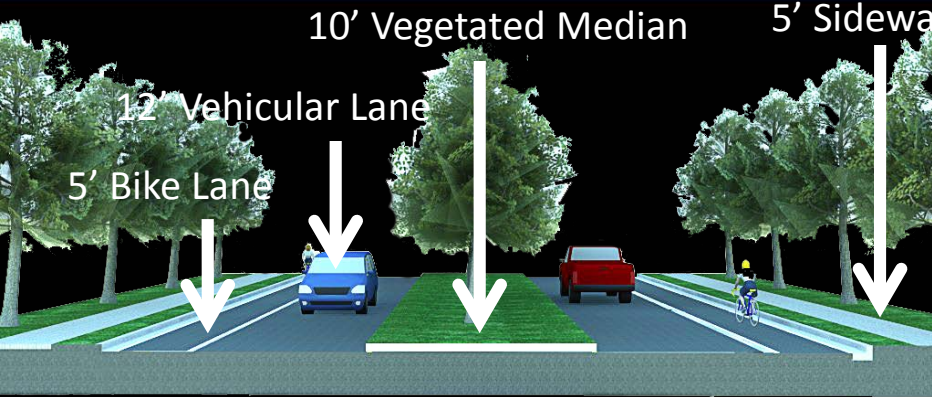


(Data Source: Google Earth, 2014)

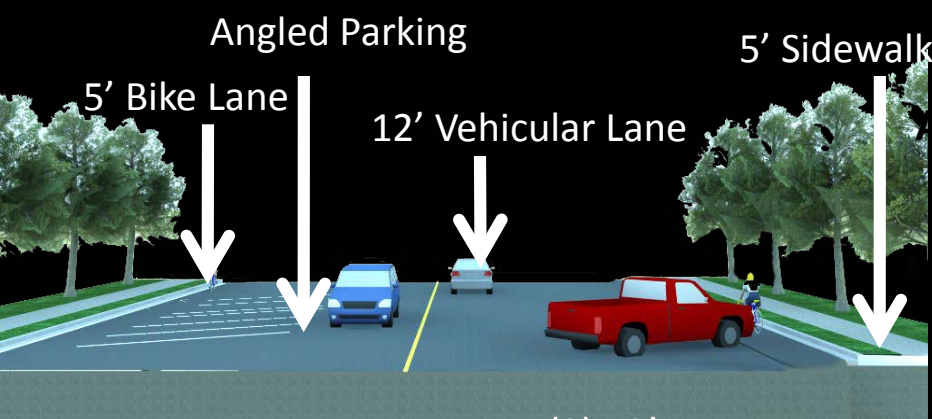




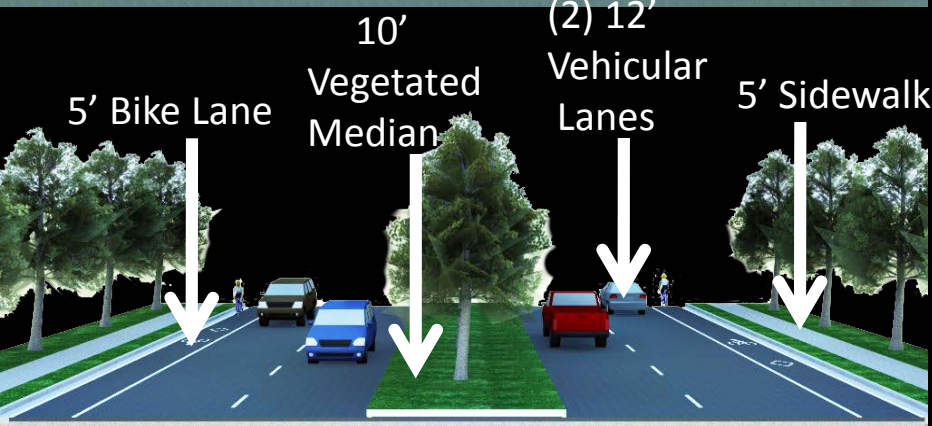
# Downtown- Complete Streets



Residential Portion



Retail Portion



Industrial Portion





# Downtown- Complete Streets



## 25 E Intersection Bulb Outs

Cumberland Ave.

25 E



(Data Source: Google Earth, 2014)

Fountain Square

Bulb Out Rendering





# Downtown Summary



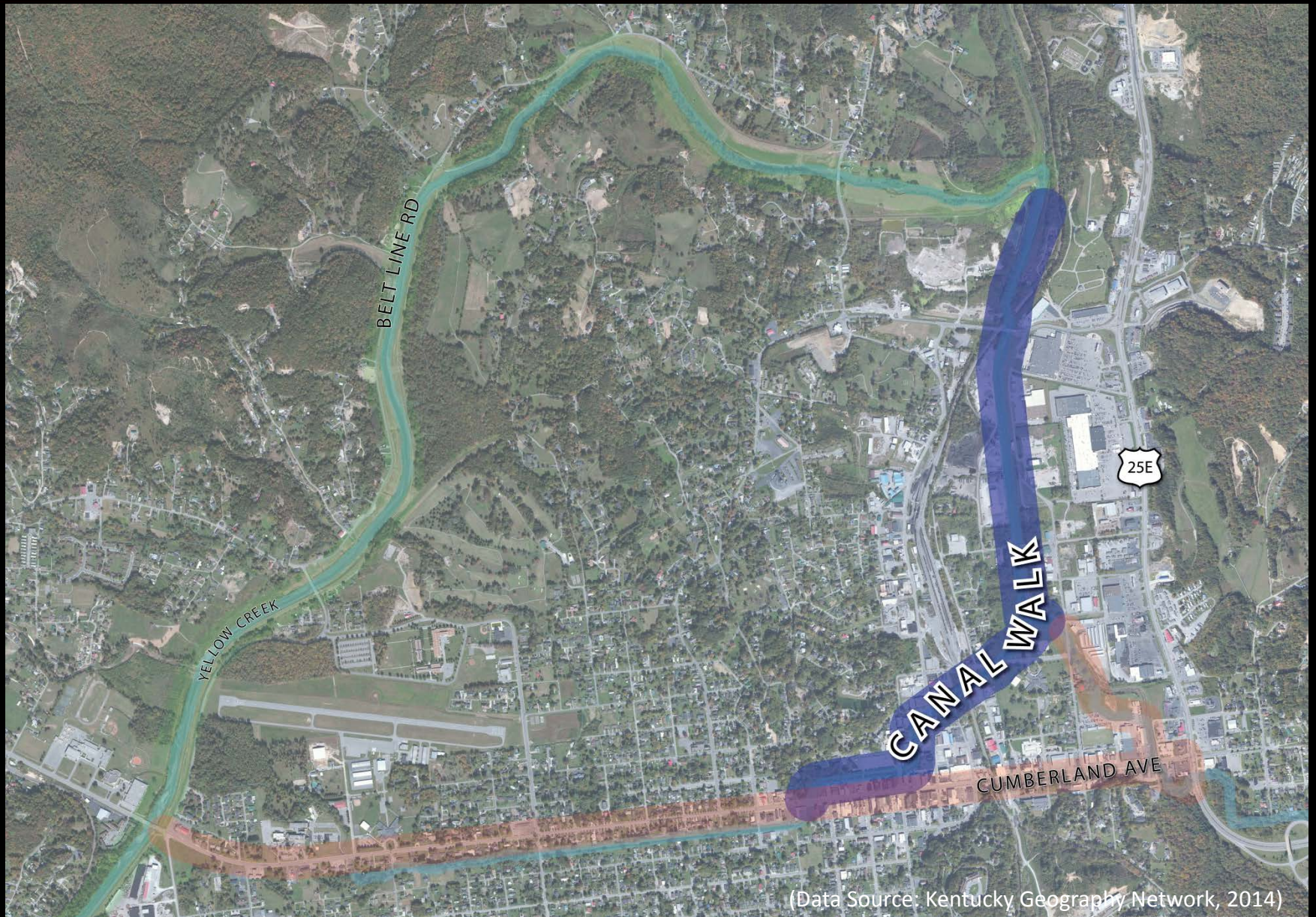
## Summary

Connect Downtown to the Trail Systems through:

- Complete, walkable streets
- Increasing signage and directional design
- Beginning a connection to Cumberland Gap National Historical Park
- Enhancing public safety through pedestrian-priority paths
- Providing a historically relevant trail recognizing Boone Trace
- Creating a series of interactive and educational spaces

# Presentation Outline







# Canal Walk – San Antonio Case Study



## Project Name

The San Antonio River Improvement

## Location

San Antonio, Texas (USA)

## Date Designed

- The Museum Reach  
(Opened May 30, 2009)
  - Downtown Section  
(Completed in Oct,2002)
  - The Mission Reach  
(Under construction)
- The Mission Reach  
(Under construction)

## Construction Cost

\$358.3 Million [To Date]

## Landscape Architect

- City of San Antonio,
- U.S. Army Corps of Engineers

## Manager

[Varies]



<http://www.boomsbeat.com/articles/2559/20140409/37-dreamy-photos-of-san-antonio-river-walk-in-texas.htm>



<http://streetcarvote.com/elected-official-positions/city-attorney-issues-streetcar-referendum-opinion-from-100mysa/#prettyPhoto/0/>



<http://thehomemakingarts.blogspot.com/2011/09/facing-challenges-of-restaurant.html>



## Bridge Analysis



Cumberland Ave Bridge



21st Bridge



20th Bridge



West Lothbury Bridge



Alyesford / Amesbury Bridge



Single lane Bridge



Salisbury Ave Bridge

## Canal Walk Bridge Analysis

- Along the Canal Walk you will encounter 8 bridges.
- Each bridge is different in height, character, and condition.
- The Canal Walk crosses under only one bridge.

## Possible Bridge Treatments

- Use the bridges as a canvas for art work.
- For the bridges that allow it; design the path to travel under rather than over the bridge.

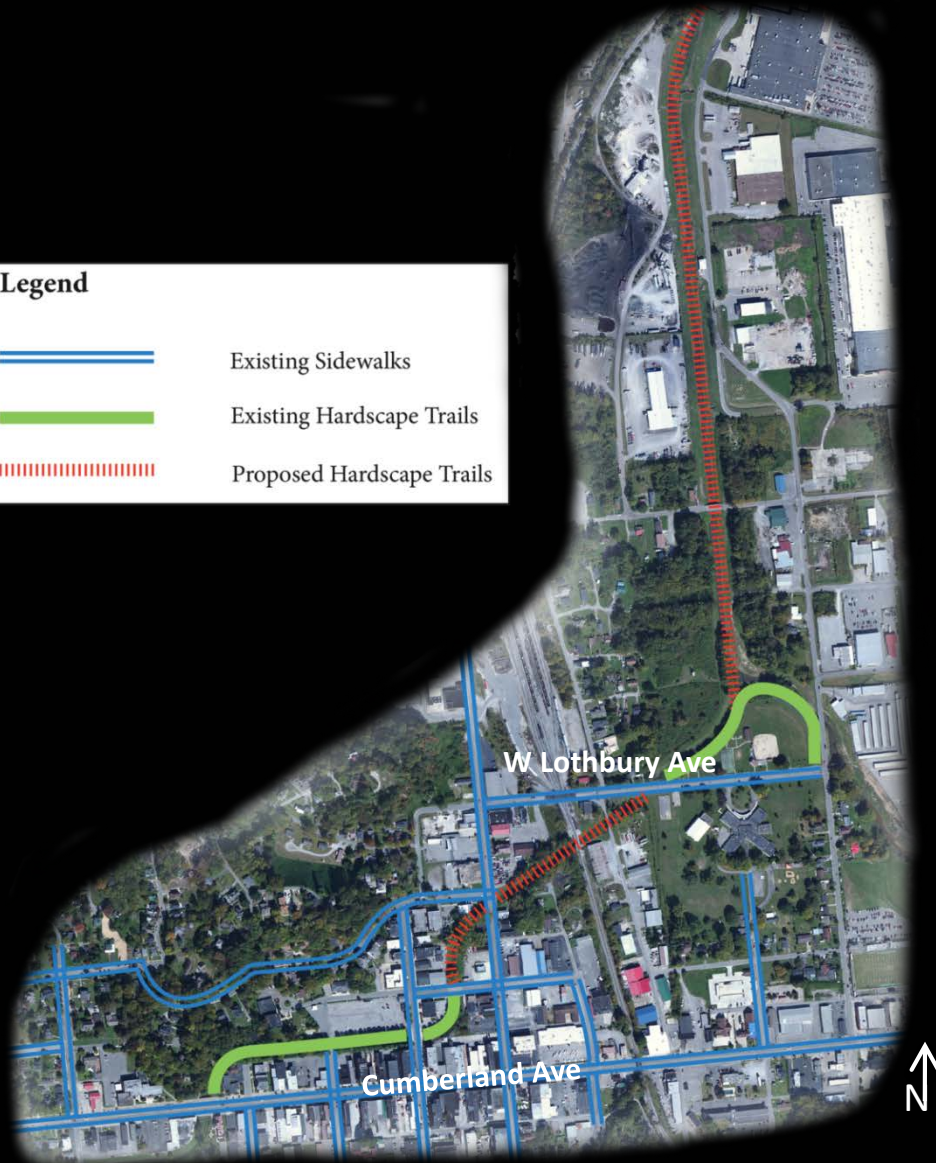


(Data Source: Google Maps, 2014)





## Hardscape Analysis



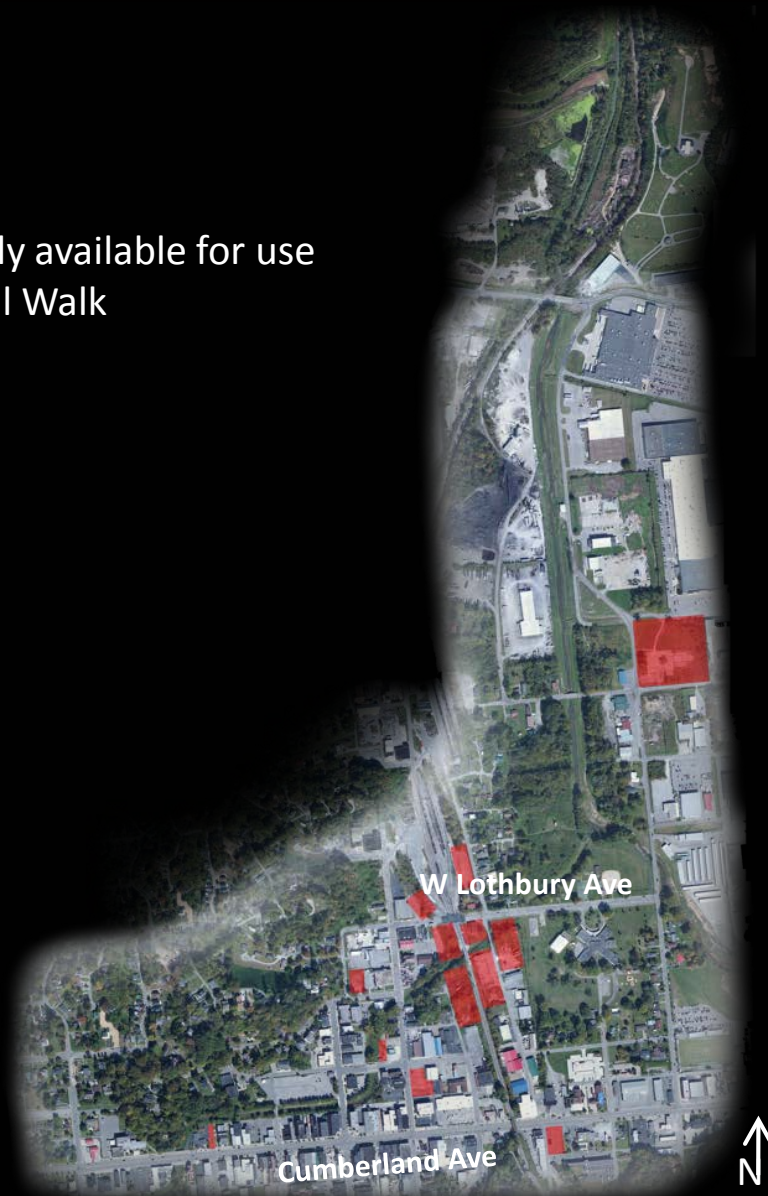
(Data Source: Google Maps, 2014)





## Vacant Lots

\*Vacant lots potentially available for use near the existing Canal Walk





### Legend

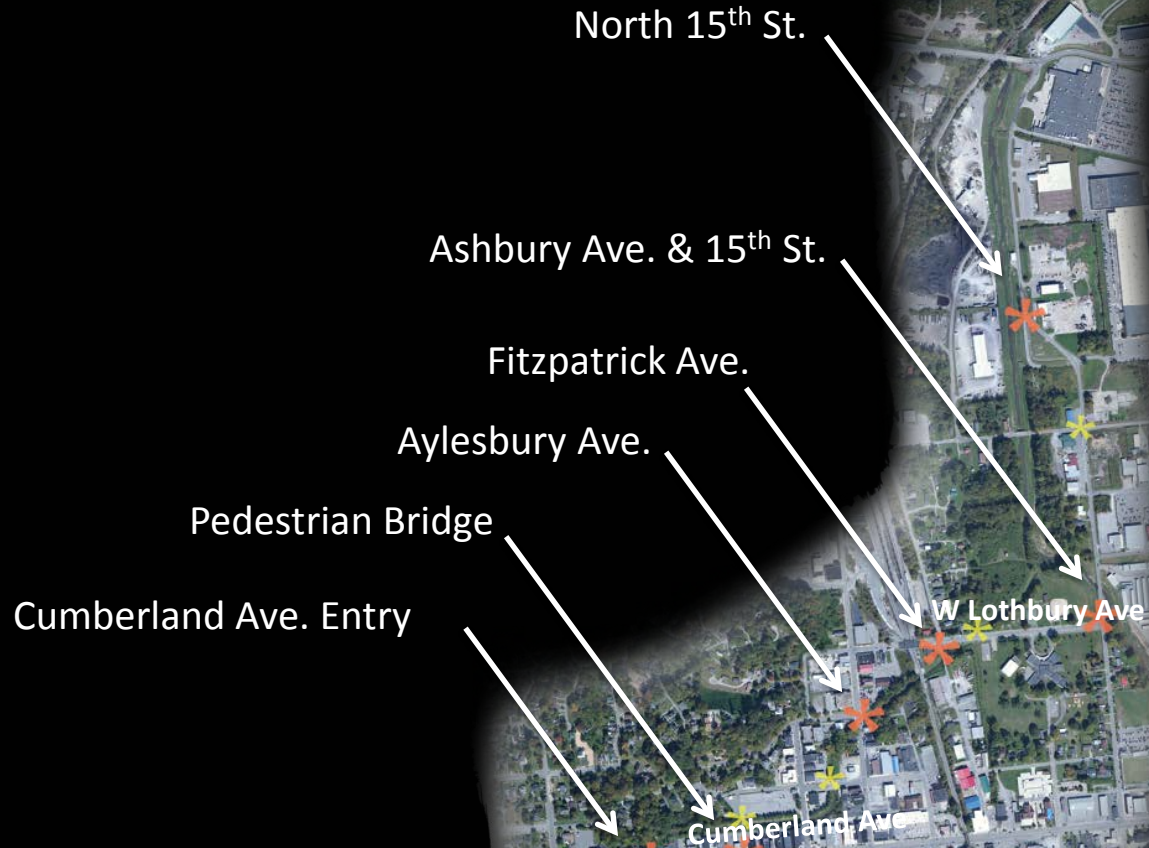
Vacant area





## Potential Trailheads

-  Important Trailheads
-  Connector points



(Data Source: Google Maps, 2014)



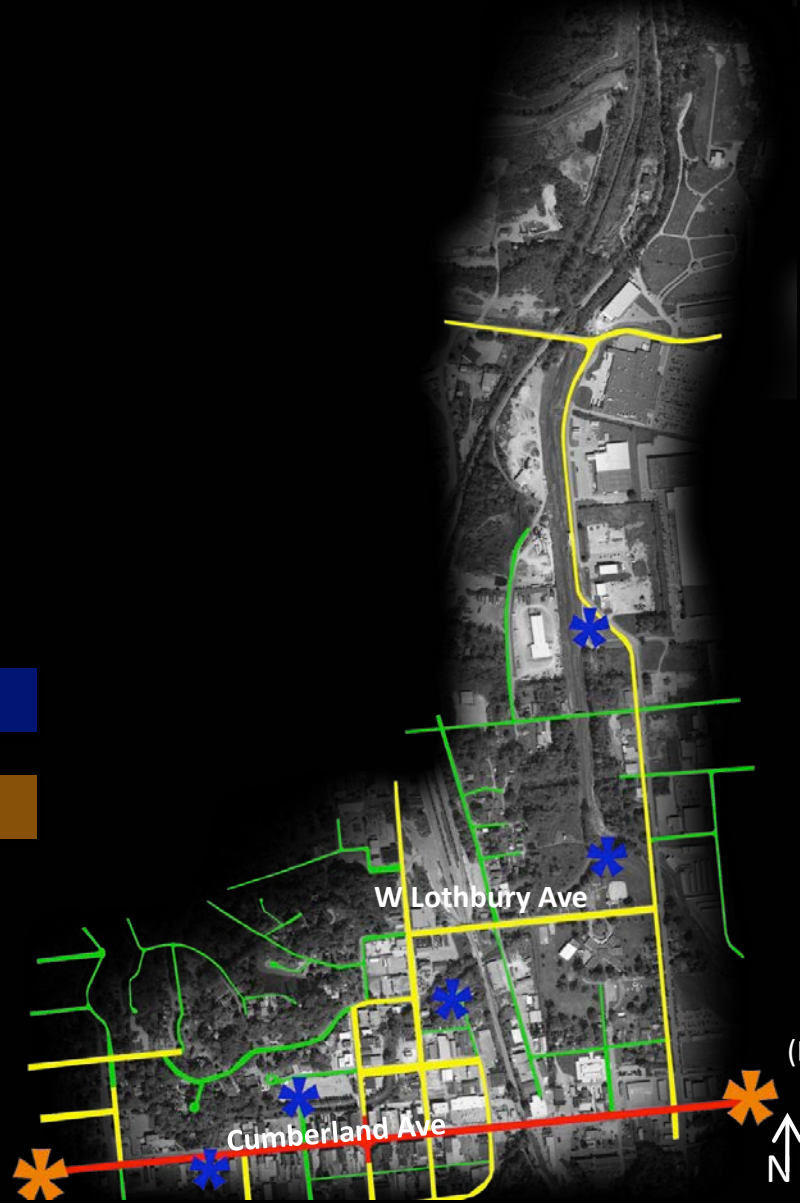
## Traffic/Connection Points

### Legend

Canal Connection Points



City Connection Points



Traffic Congestion	
	No congestion
	Moderate
	Heavy
	Stop and go
	Closed
	No data

(Data Source: Google Maps, 2014)

*\*set of algorithms to calibrate roadside traffic management cameras and process the images to estimate mean vehicle speed.*



# Canal Walk – Entrance to the Canal Walk



Entrance to the Canal Walk



Cumberland Ave



(Data Source: Google Maps, 2014)

# Canal Walk – Entrance to the Canal Walk 1



## Conceptual Diagrams



Concept 1



(Data Source: Google Maps, 2014)

Concept 2

## Programmatic Elements

1. Trail Head
2. Public Green Space
3. Pedestrian Street
4. Pocket Park
5. Bridge
6. Complete Street

# Canal Walk – Entrance to the Canal Walk 1



## Refined Diagram



# Canal Walk – Entrance to the Canal Walk 1



## Pedestrian Bridge



# Canal Walk – Entrance to the Canal Walk 1



## Pocket Park





# Canal Walk – Entrance to the Canal Walk 2



## Refined Diagram

1. Reshape the Canal

2. Green space on both sides of the canal

3. Wooden bridge to cross

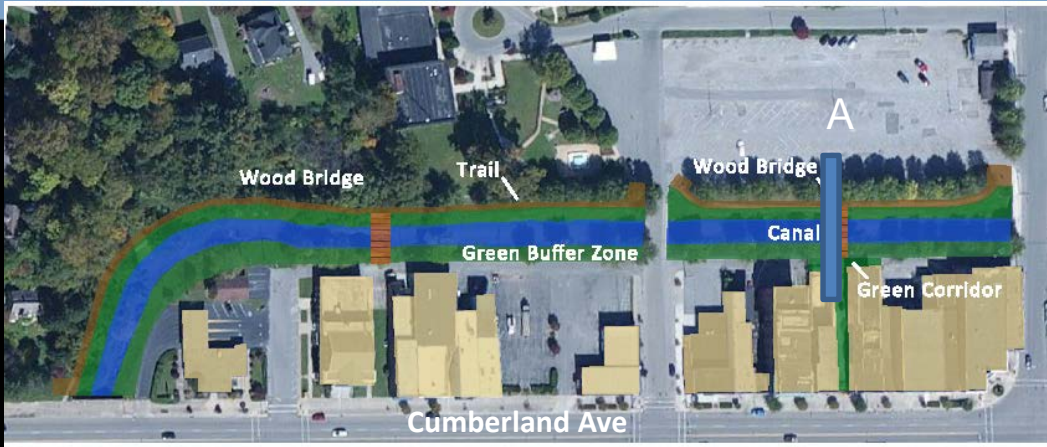


(Data Source: Google Maps, 2014)

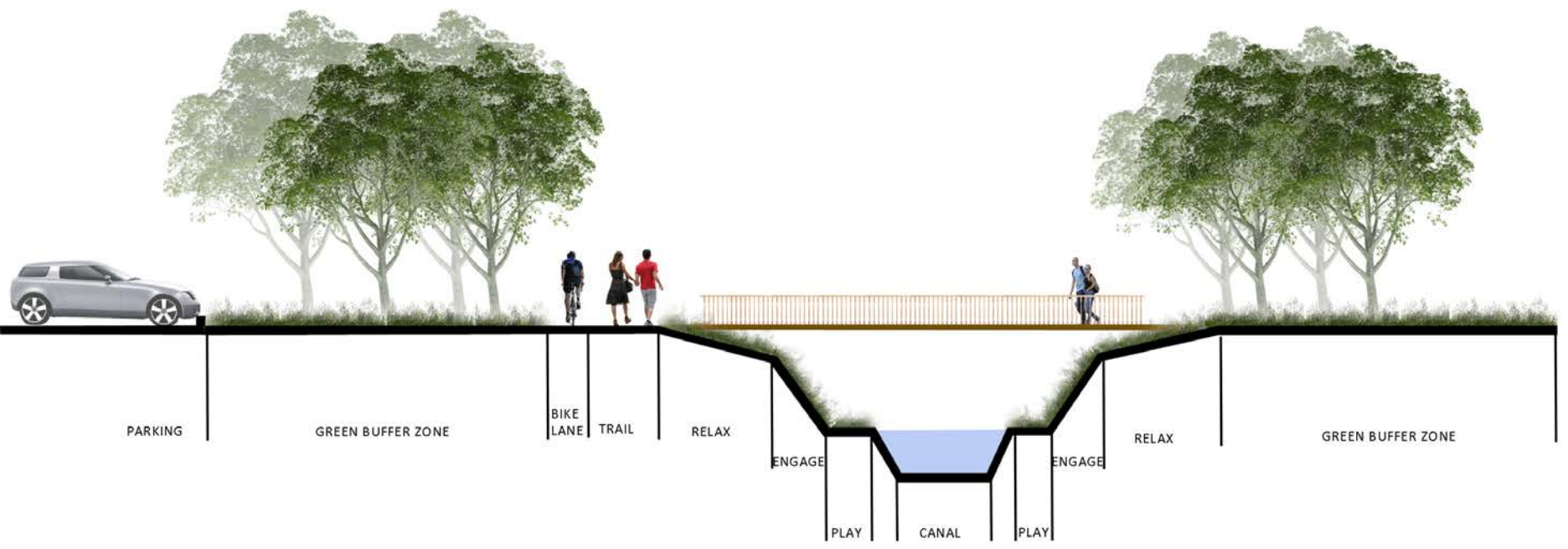
# Canal Walk – Entrance to the Canal Walk 2



## Section A



(Data Source: Google Maps, 2014)



# Canal Walk – Entrance to the Canal Walk 2



Canal Walk Trail - Before



# Canal Walk – Entrance to the Canal Walk 2



Canal Walk Trail - After





# Canal Walk – The Link



The Link



Cumberland Ave

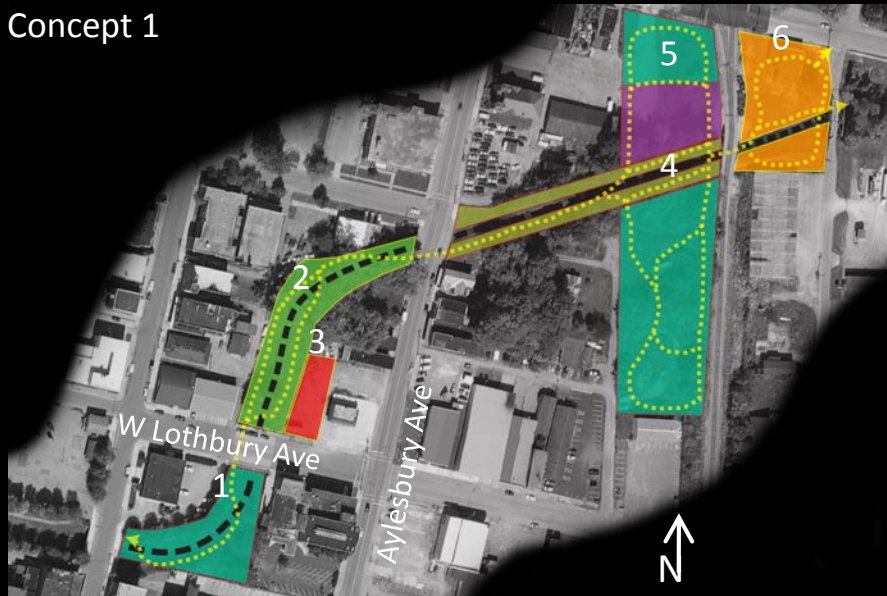


(Data Source: Google Maps, 2014)

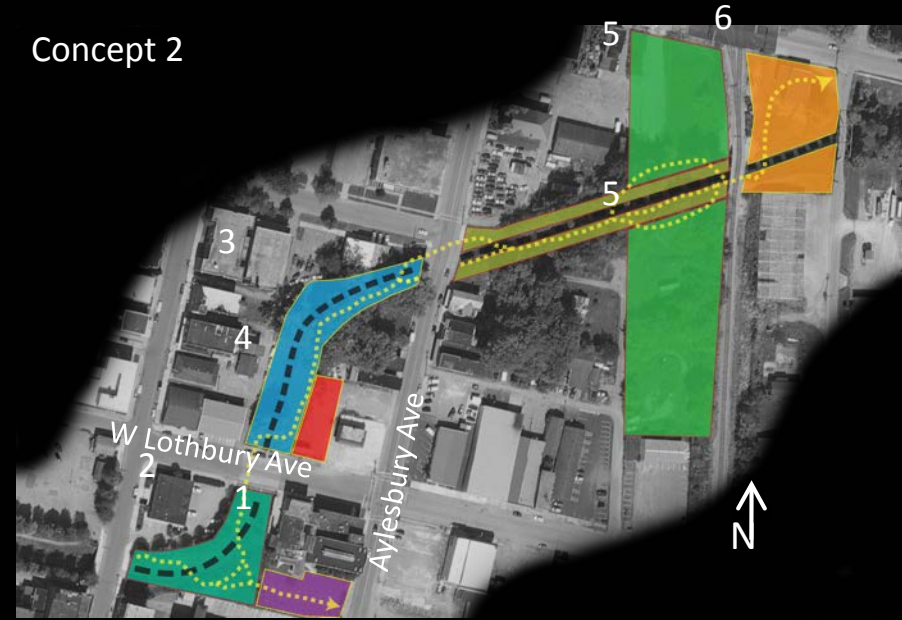


## Regional Connection Opportunities

Concept 1



Concept 2



(Data Source: Google Maps, 2014)

## Programmatic Elements

### Concept 1

- 1) Leisure Lawn
- 2) Green Walkway
- 3) Food truck Plaza
- 4) Wetlands
- 5) Educational Plaza
- 6) Rest Area

### Concept 2

- 1) New Entry
- 2) Wetlands
- 3) Detention Basin
- 4) Event Plaza
- 5) Recreational Lawns
- 6) Rest Area



# Canal Walk – The Link



## Refined Diagram

Detention Basin

Prairie Grass Educational Walk

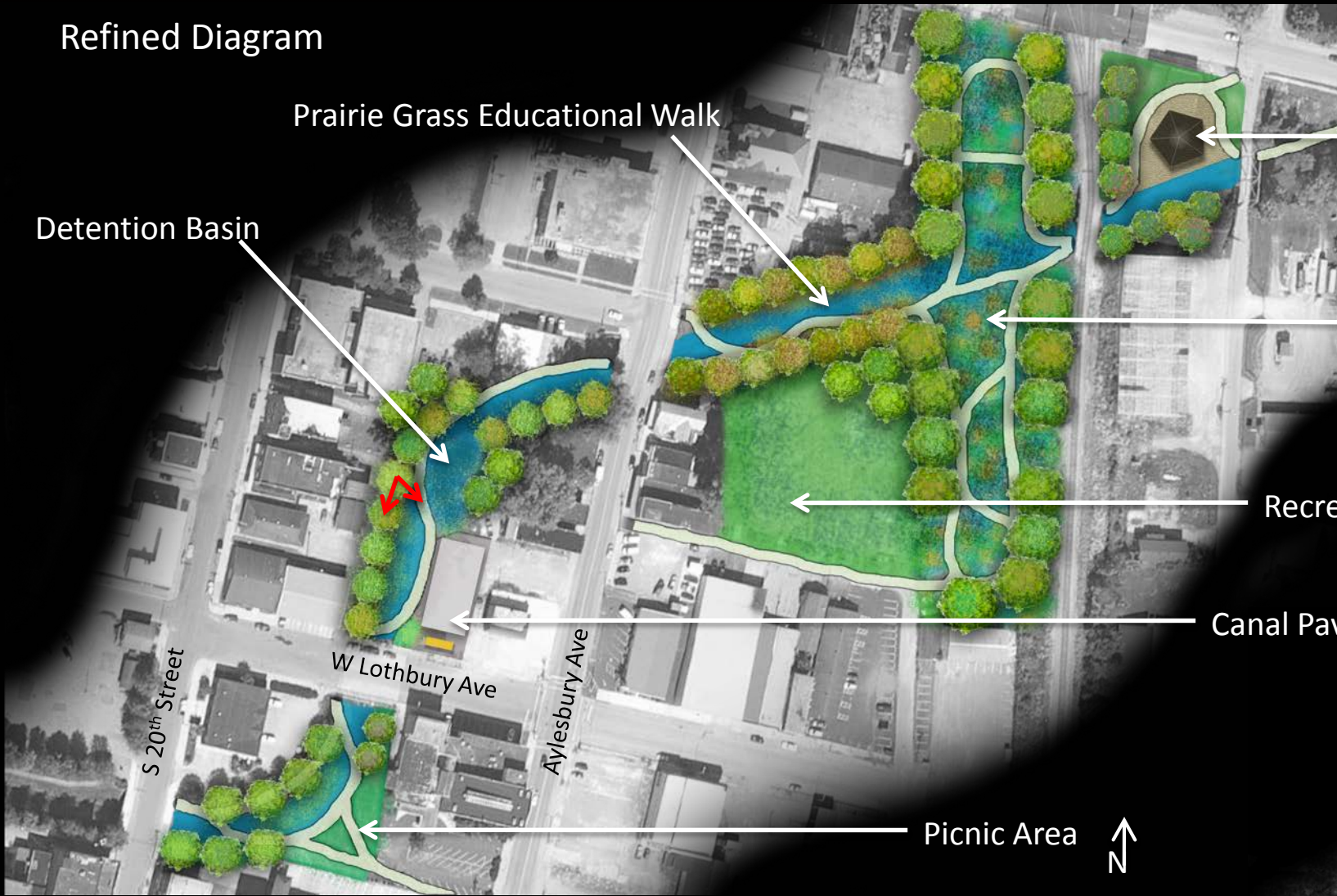
Rest Area

Wetlands

Recreational Lawn

Canal Pavilion

Picnic Area



(Data Source: Google Maps, 2014)



# Canal Walk – The Link



## Lothbury Ave. Pavilion







# Canal Walk – Sports Park



Sports Park



Cumberland Ave



(Data Source: Google Maps, 2014)



# Canal Walk – Sports Park



## Conceptual Diagrams



Concept 1



Concept 2



Concept 3

(Data Source: Google Maps, 2014)

### Programmatic Elements

★ Trail Head

■ Parcourse (Outdoor Fitness Stations)

■ Nature Center/Trail Information Center/Organic Grocery Store

■ Public Arboretum

■ Picnic Area

■ CSA Organic Farm

■ Complete Street

■ Athletic Fields

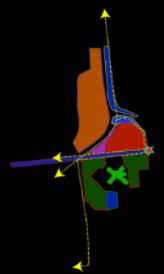
■ Community Garden



# Canal Walk – Sports Park

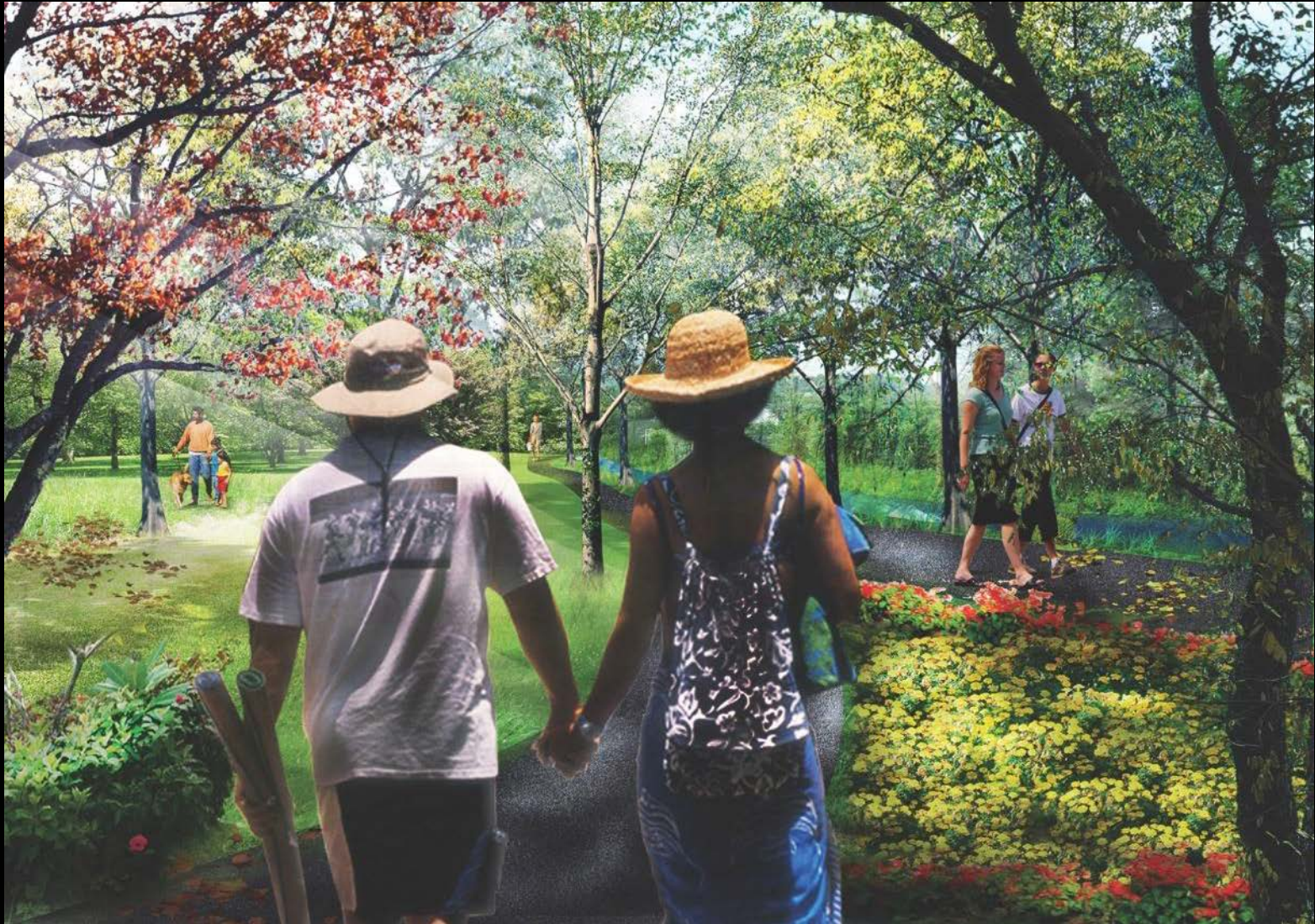


### Refined Diagram 3





## Cumberland Ave Connection Trail

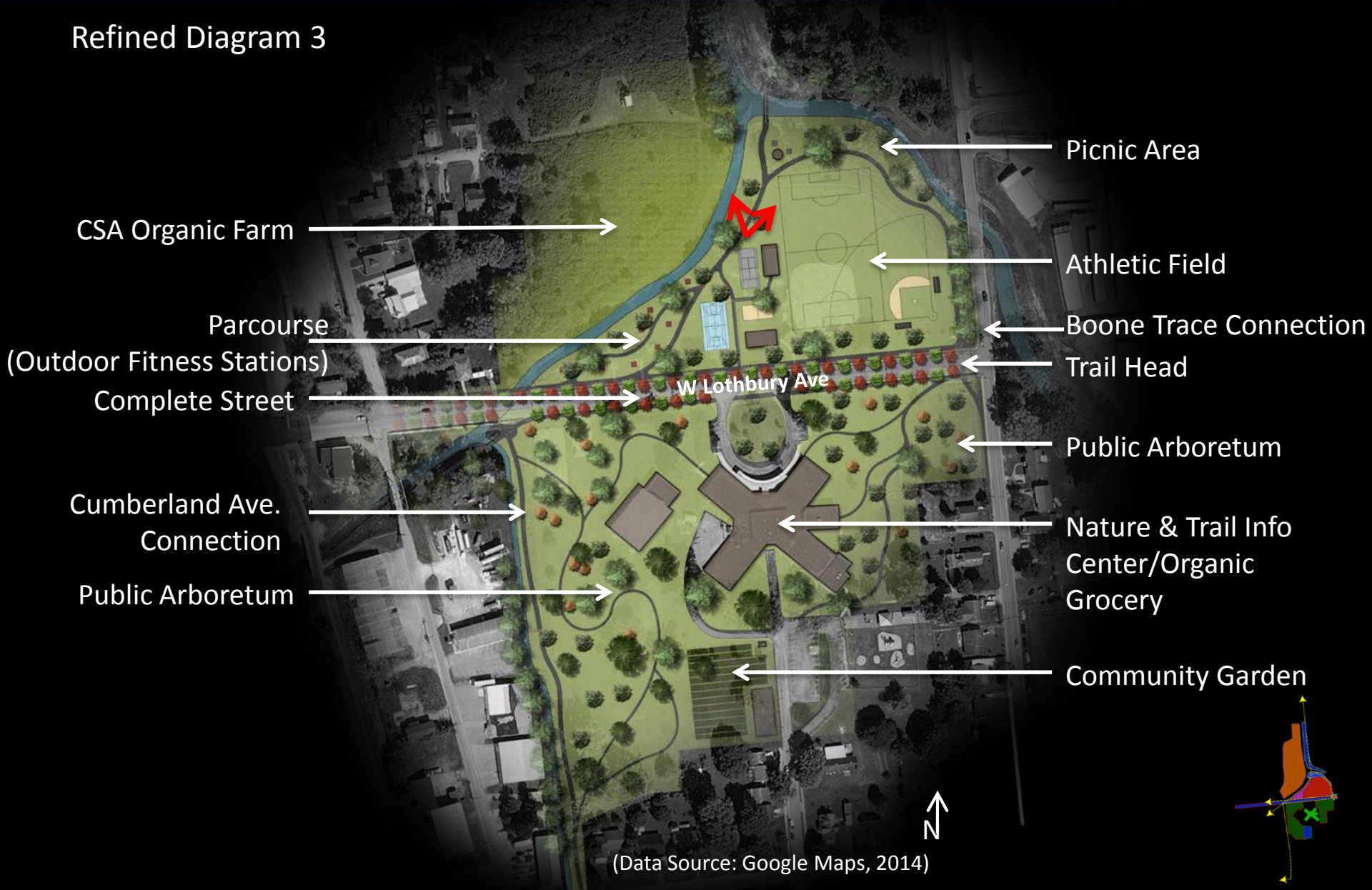




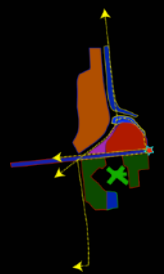
# Canal Walk – Sports Park



## Refined Diagram 3



(Data Source: Google Maps, 2014)





Walking trail around athletic field



# Canal Walk – The Daniel Boone Connection



The Daniel Boone Connection



Cumberland Ave



(Data Source: Google Maps, 2014)



## Conceptual Diagrams

(Data Source: Google Maps, 2014)



Concept 1

- Focuses on enlarging event and public spaces
- Integrates fitness stations into the Canal Walk



Concept 2

- Places event space and activity along the road, making the canal a peaceful setting



Concept 3

- Places event space and activity along the canal
- Integrates fitness stations throughout the entire site

## Programmatic Elements



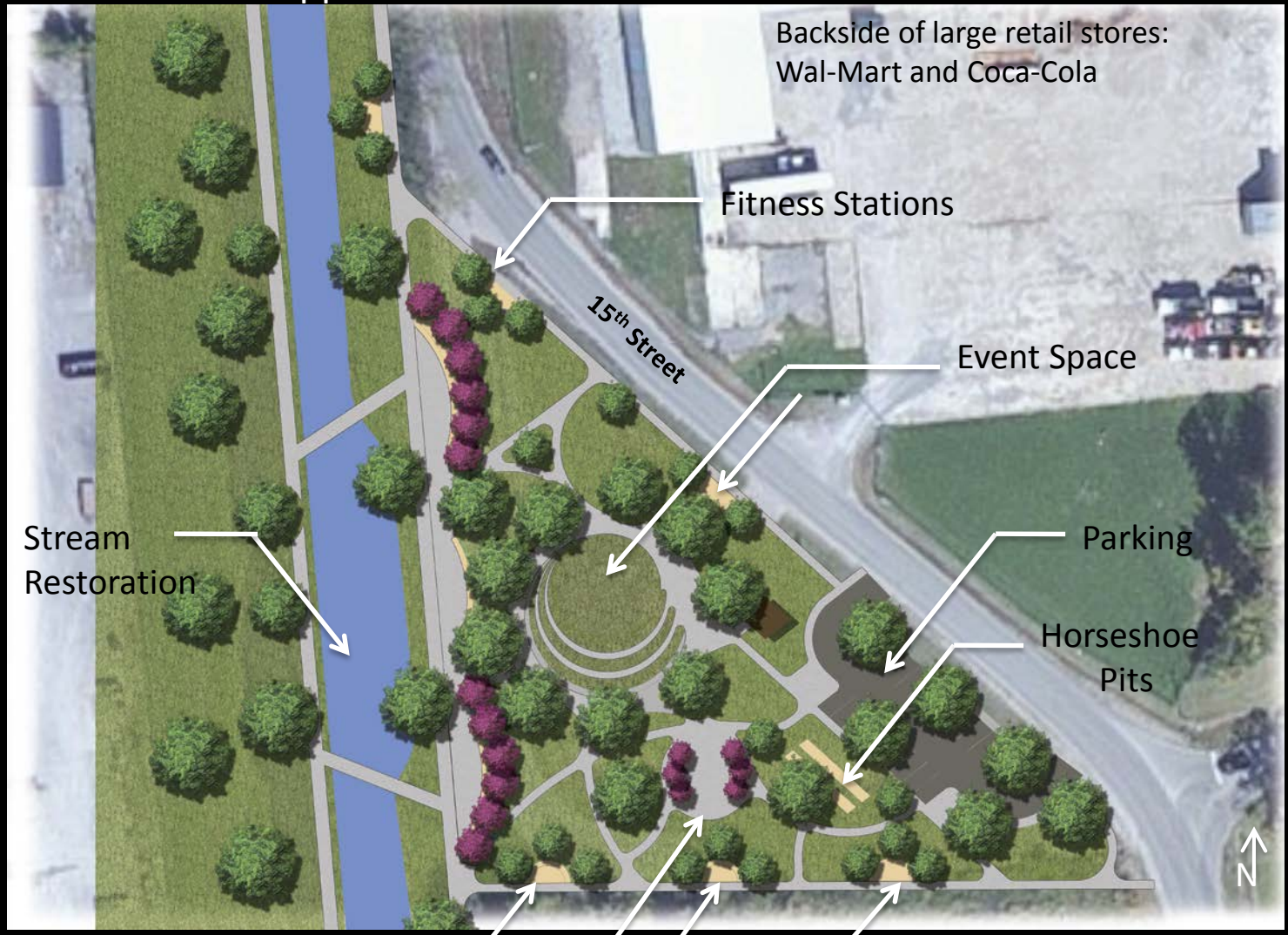




# Canal Walk – The Daniel Boone Connection



## Regional Connection Opportunities



Backside of large retail stores:  
Wal-Mart and Coca-Cola

Fitness Stations

15<sup>th</sup> Street

Event Space

Stream  
Restoration

Parking

Horseshoe  
Pits

Picnic Area

(Data Source: Google Maps, 2014)



Amphitheatre Perspective





# Canal Walk – Best Practices



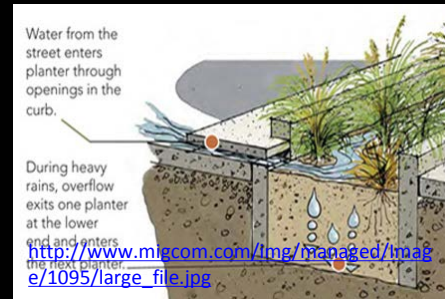
## Storm Water Management

### Stormwater planters

- Stormwater planters use soil infiltration and biogeochemical processes to decrease stormwater quantity and improve water quality.
- Stormwater planters are typically a few square feet of surface area.

### Permeable Pavers

- Permeable pavement is an alternative to asphalt or concrete
- Allows stormwater to drain through the porous surface





# Canal Walk – Best Practices



## Storm Water Management

### Green Parking

- Reducing the contribution of parking lots to total impervious cover.
- Setting maximums for the number of parking lots created.
- Minimizing the dimensions of parking lot spaces.
- Utilizing alternative pavers in overflow parking area.
- Using bioretention areas to treat stormwater.
- Encouraging shared parking.



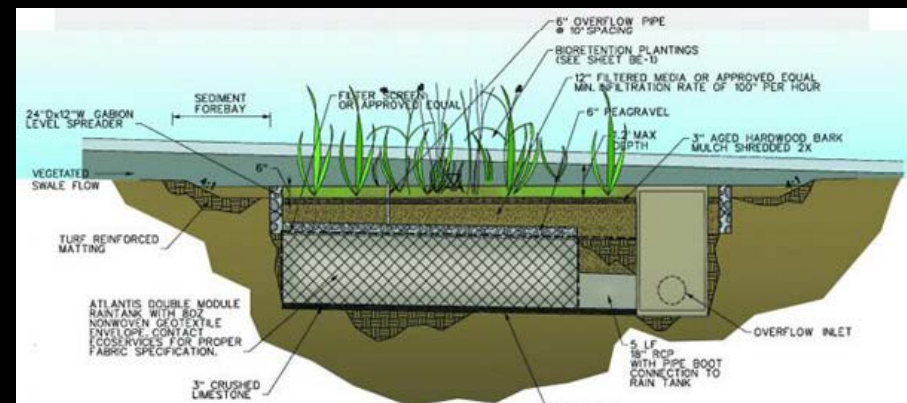
[http://www.examiner.com/images/blog/wysiwyg/image/pavement\(5\).jpg](http://www.examiner.com/images/blog/wysiwyg/image/pavement(5).jpg)



[http://globalwater.ehclients.com/images/uploads/figure1\\_386x290.jpg](http://globalwater.ehclients.com/images/uploads/figure1_386x290.jpg)

### Bioretention Cells

- An underdrain to encourage filtration and infiltration.



[http://iswm.nctcog.org/Documents/Tools/Case\\_Studies/Meritt\\_Road/Bioretention\\_sm.jpg](http://iswm.nctcog.org/Documents/Tools/Case_Studies/Meritt_Road/Bioretention_sm.jpg)



## Summary

### Canal Walk key points:

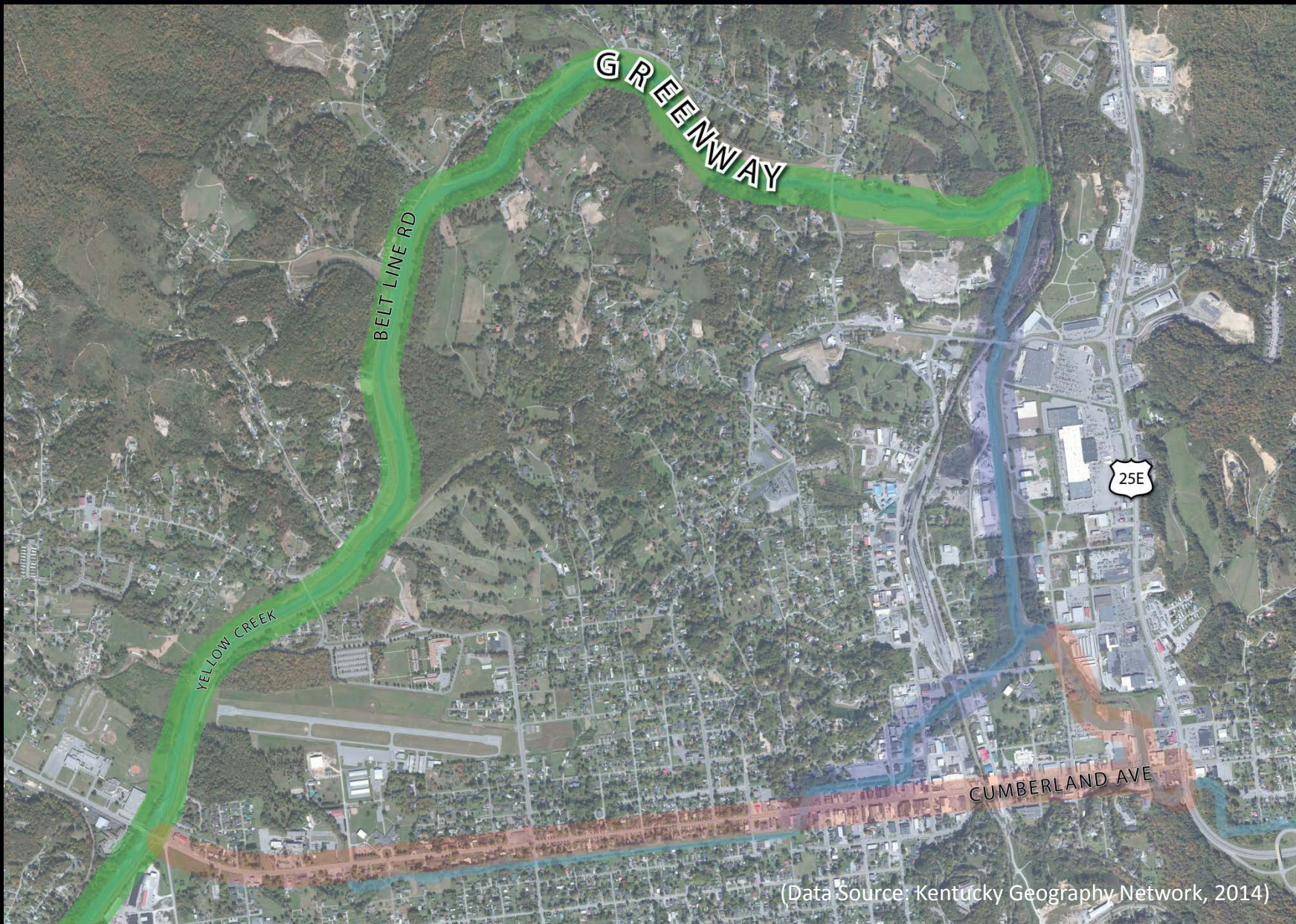
- Provide the community of Middlesboro and tourists a place to hold public functions.
- Help create an active healthy community.
- Provide a continuous multi-use trail that connects to local and regional trails.
- Beginning a connection to Cumberland Gap National Historical Park.
- Connecting to the historic Boone Trace.
- Educate the public about best practices for water management.
- Creating a series of interactive and educational spaces.

# Presentation Outline





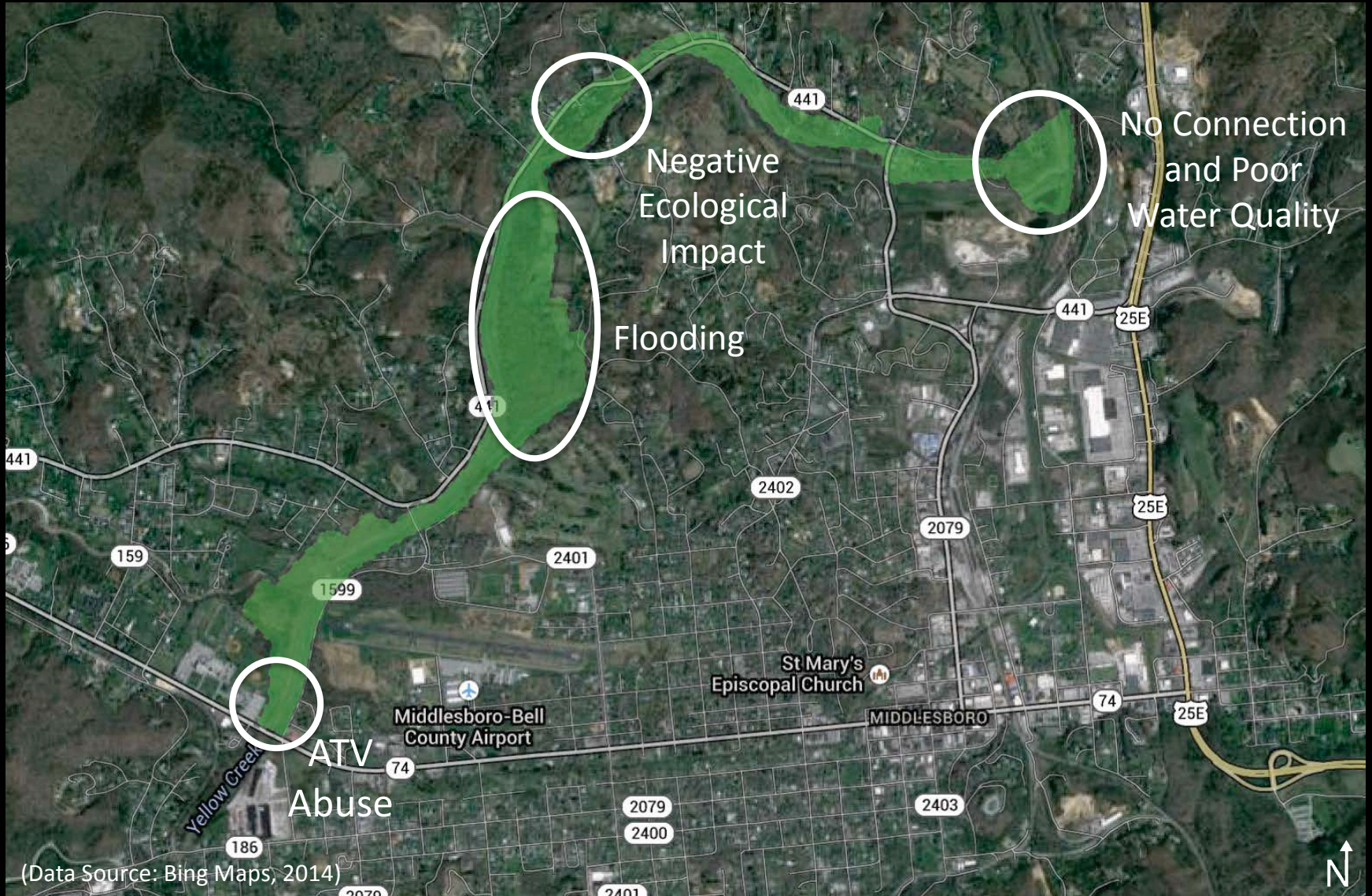
# Greenway



(Data Source: Kentucky Geography Network, 2014)



## Challenges







# Greenway – Mill Creek Case Study



## Project Name

Mill Creek Restoration Project (MCRP)

## Location

Cincinnati, Ohio (USA)

## Date Designed

[Varies]

## Construction Completed

[Ongoing]

## Construction Cost

\$806.5 Million [To Date]

## Landscape Architect

Amec, CDS Associates, Woolpert

## Developer | Client

Mill Creek Watershed Council, Groundwork Cincinnati

## Manager

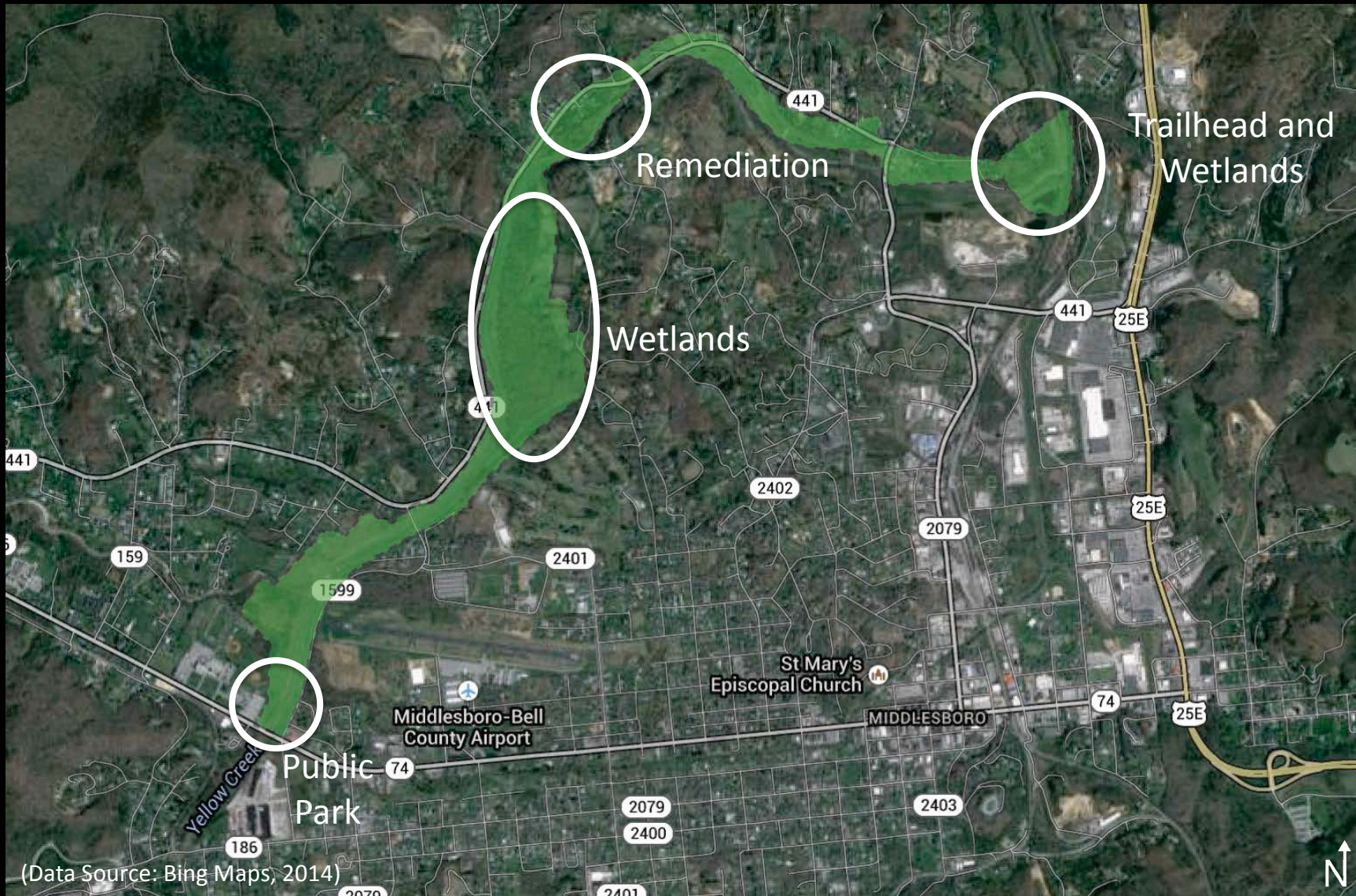
[Varies]



(Source: Millcreekwatershed.org, n.d.)

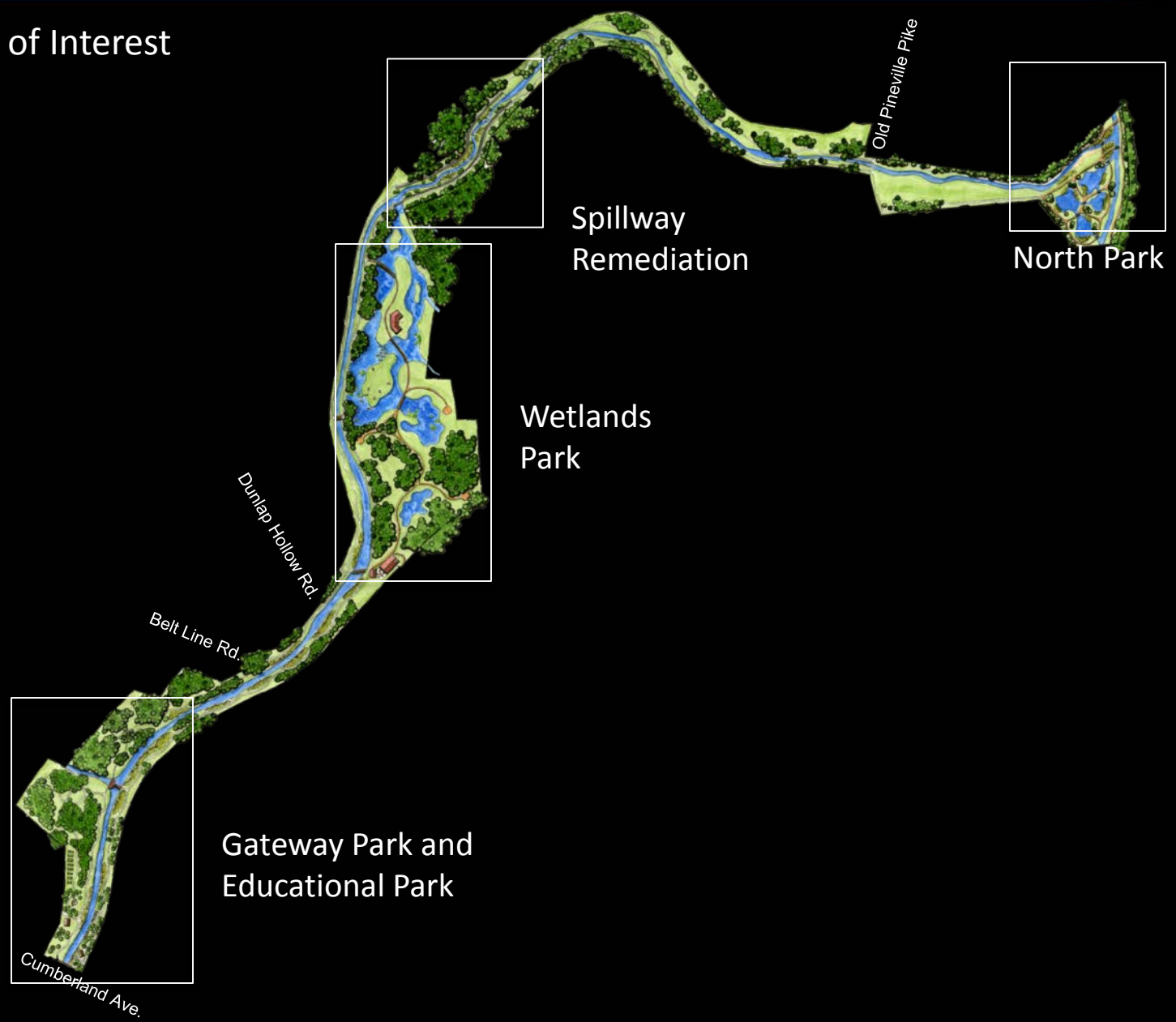


## Opportunities





## Areas of Interest





# Greenway – North Park



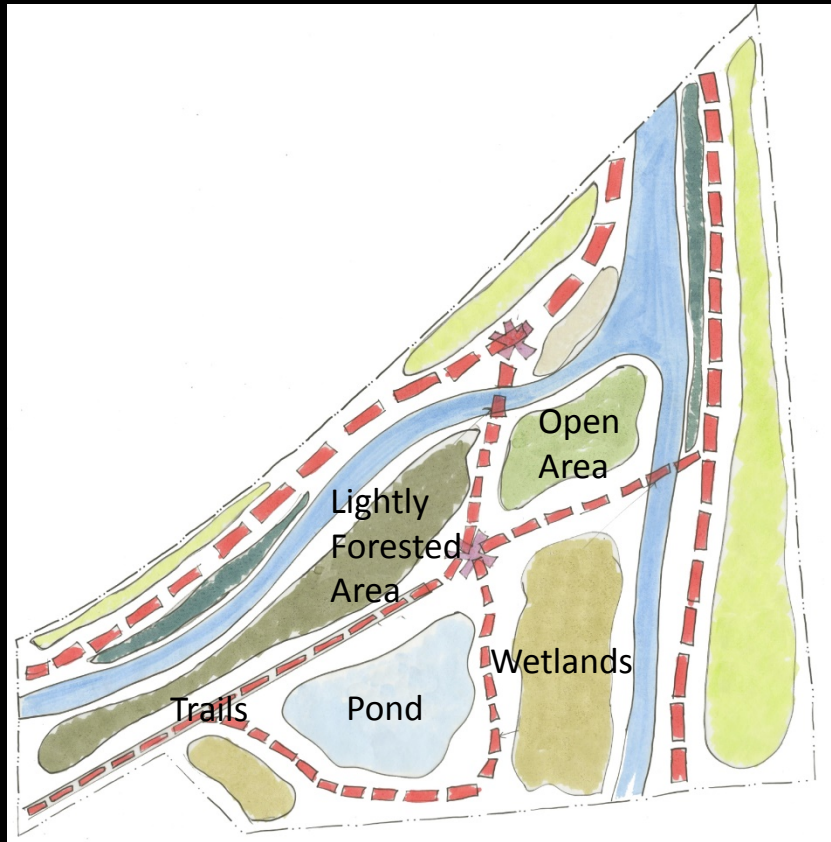
North Park



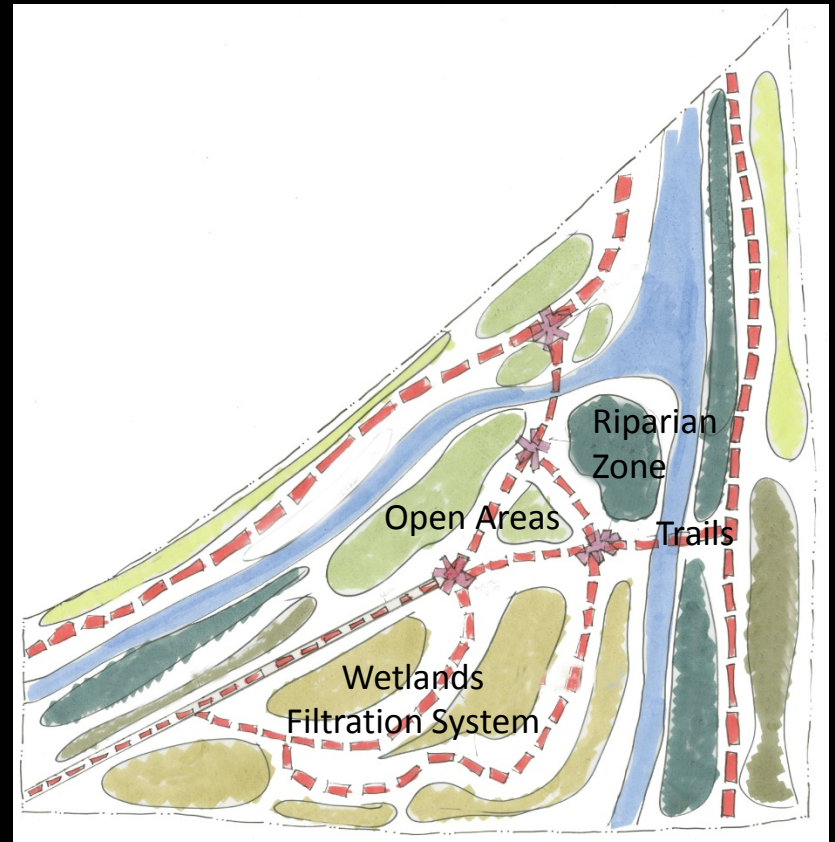


## North Park Conceptual Diagrams

Concept 1



Concept 2





# Greenway - North Park



## North Park Refined Conceptual Diagram





## Potential Trail Head





# Greenway - Spillway



Spillway

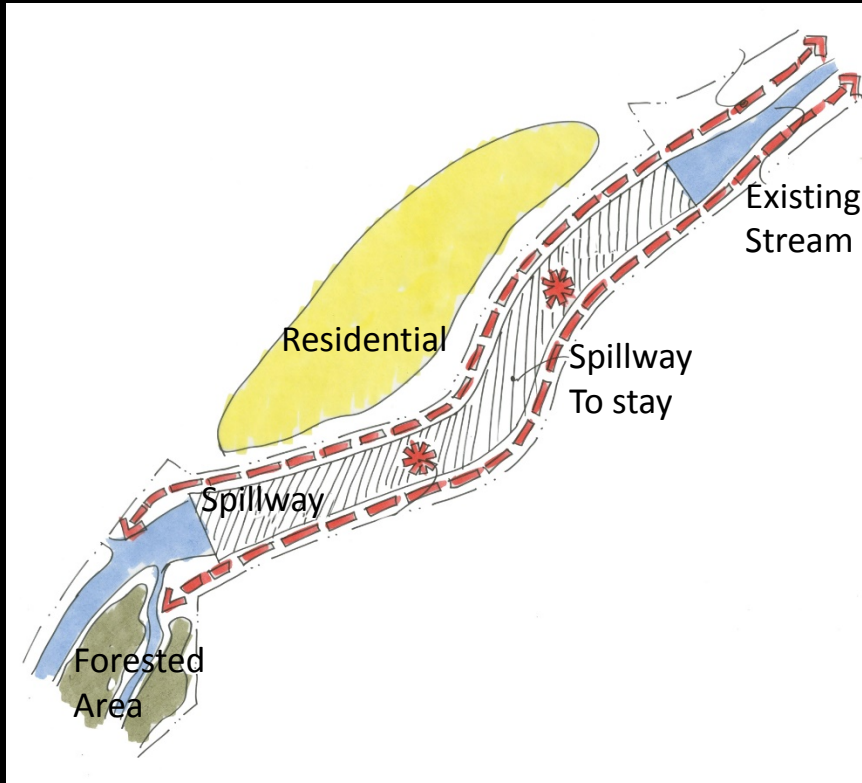




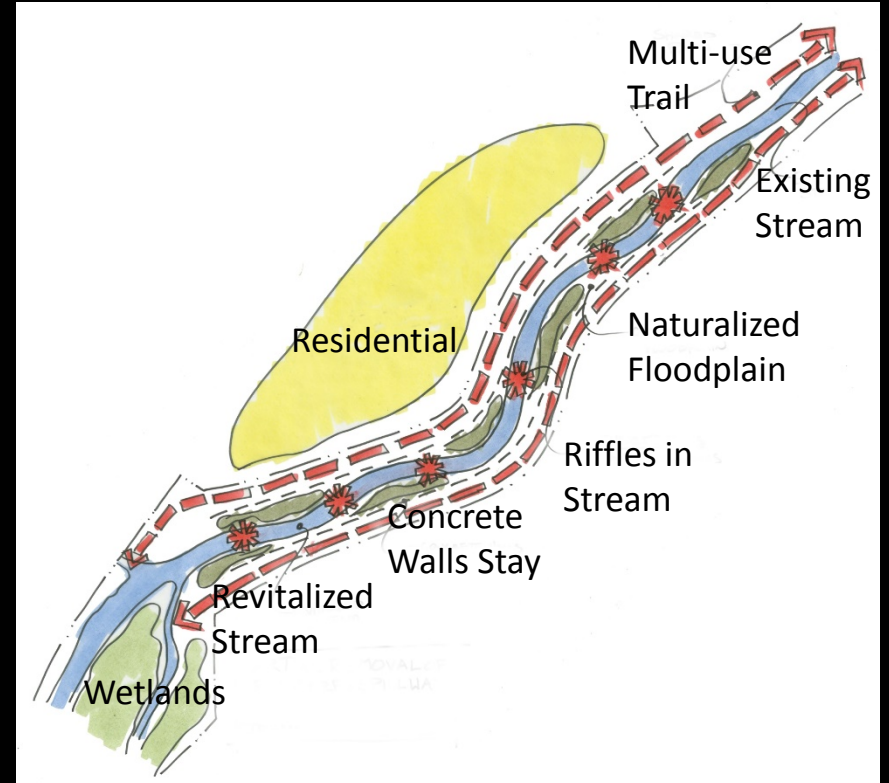


## Spillway Conceptual Diagrams

Concept 1



Concept 2





## Spillway Refined Conceptual Diagram





# Greenway – Spillway



## Potential Spillway





# Greenway - Wetlands



## Wetlands



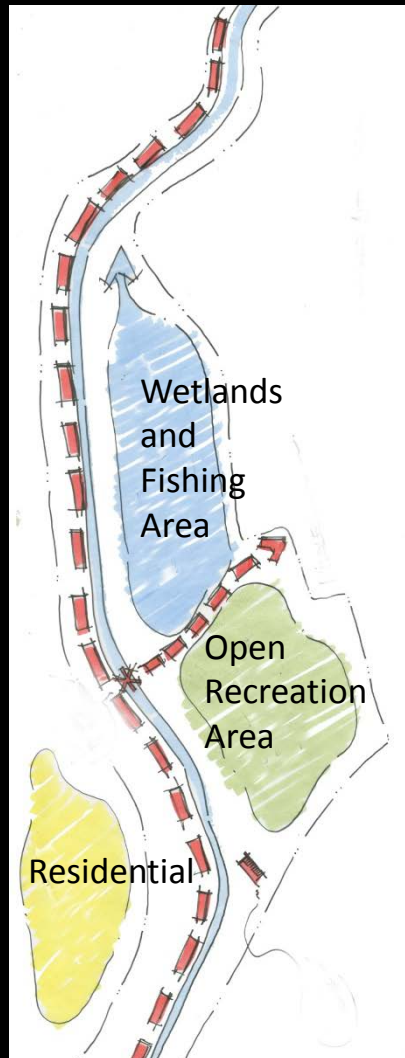


## Wetlands Conceptual Diagrams

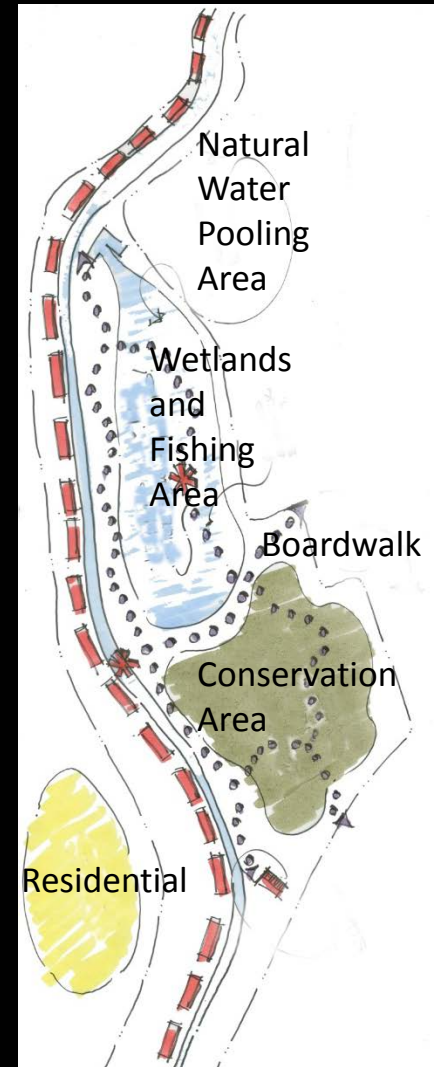
Concept 1



Concept 2



Concept 3





## Wetlands Refined Conceptual Diagram





# Greenway – Wetlands



## Potential Wetlands Trail





# Greenway – Gateway and Educational Park



## Gateway and Educational Park

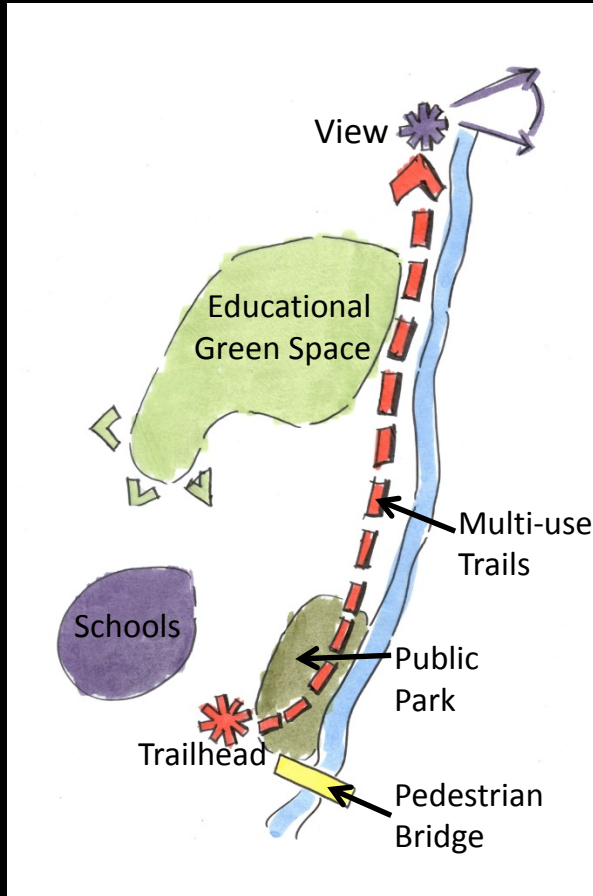




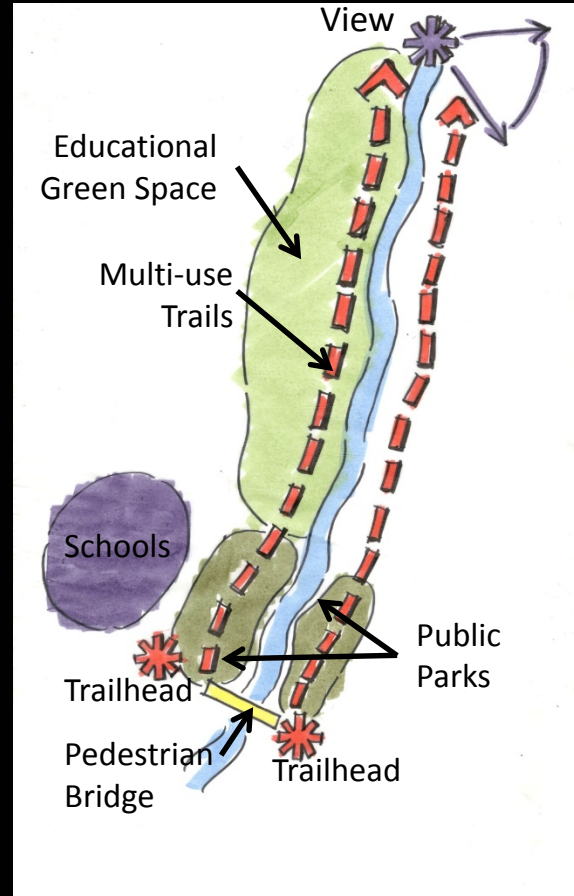


## Gateway and Educational Conceptual Diagrams

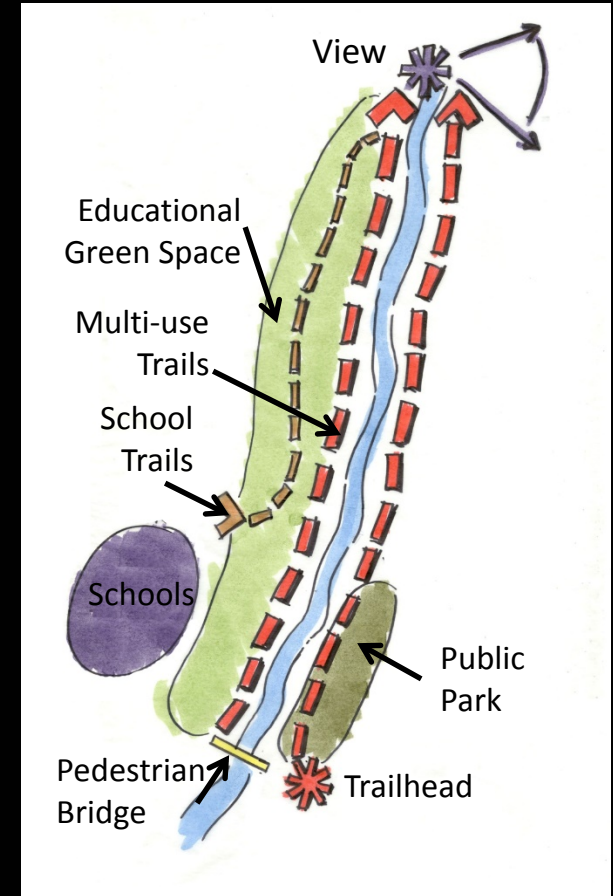
Concept 1



Concept 2



Concept 3



# Greenway – Gateway and Educational Park



## Gateway and Educational Park Refined Conceptual Diagram

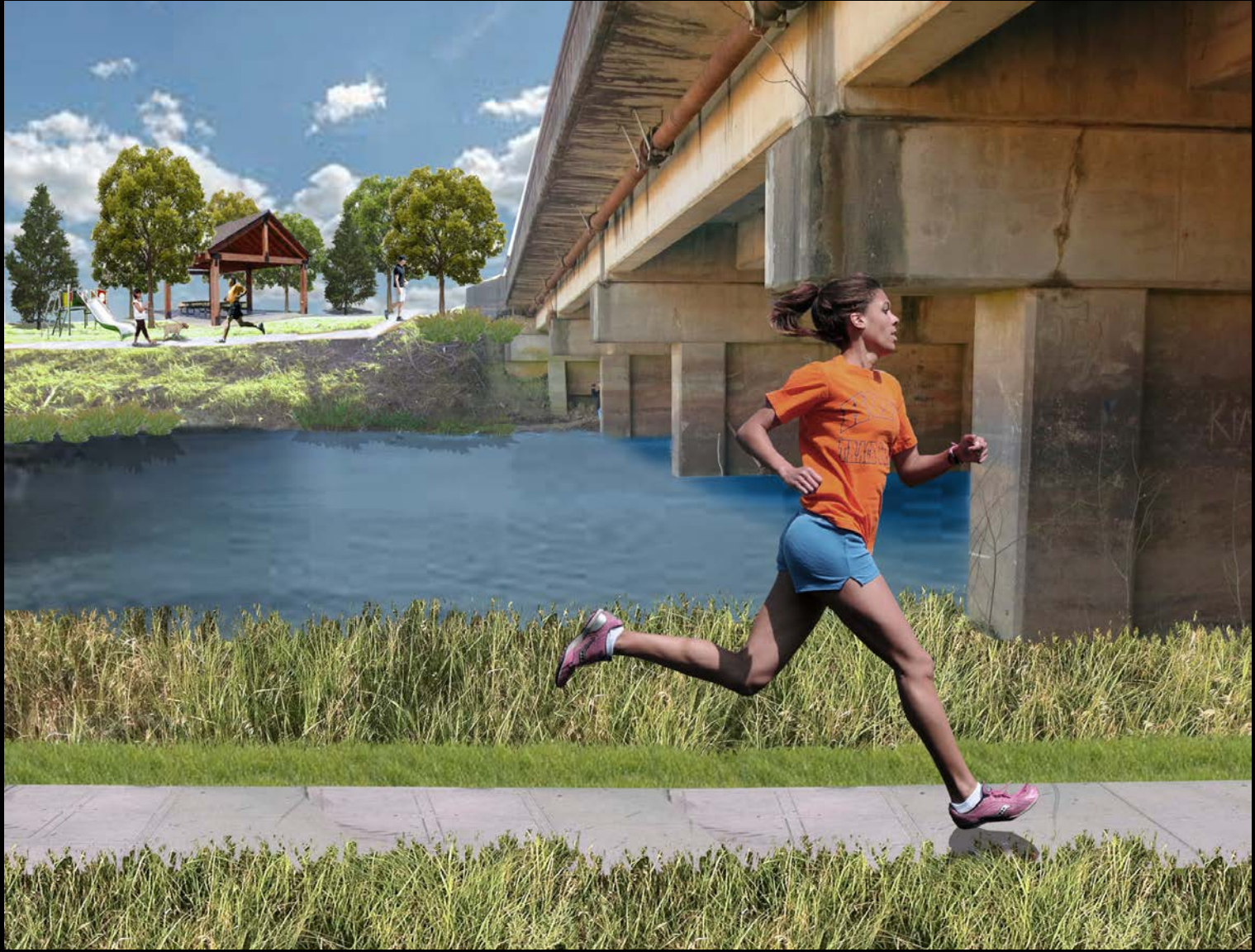




# Greenway— Gateway and Educational Park

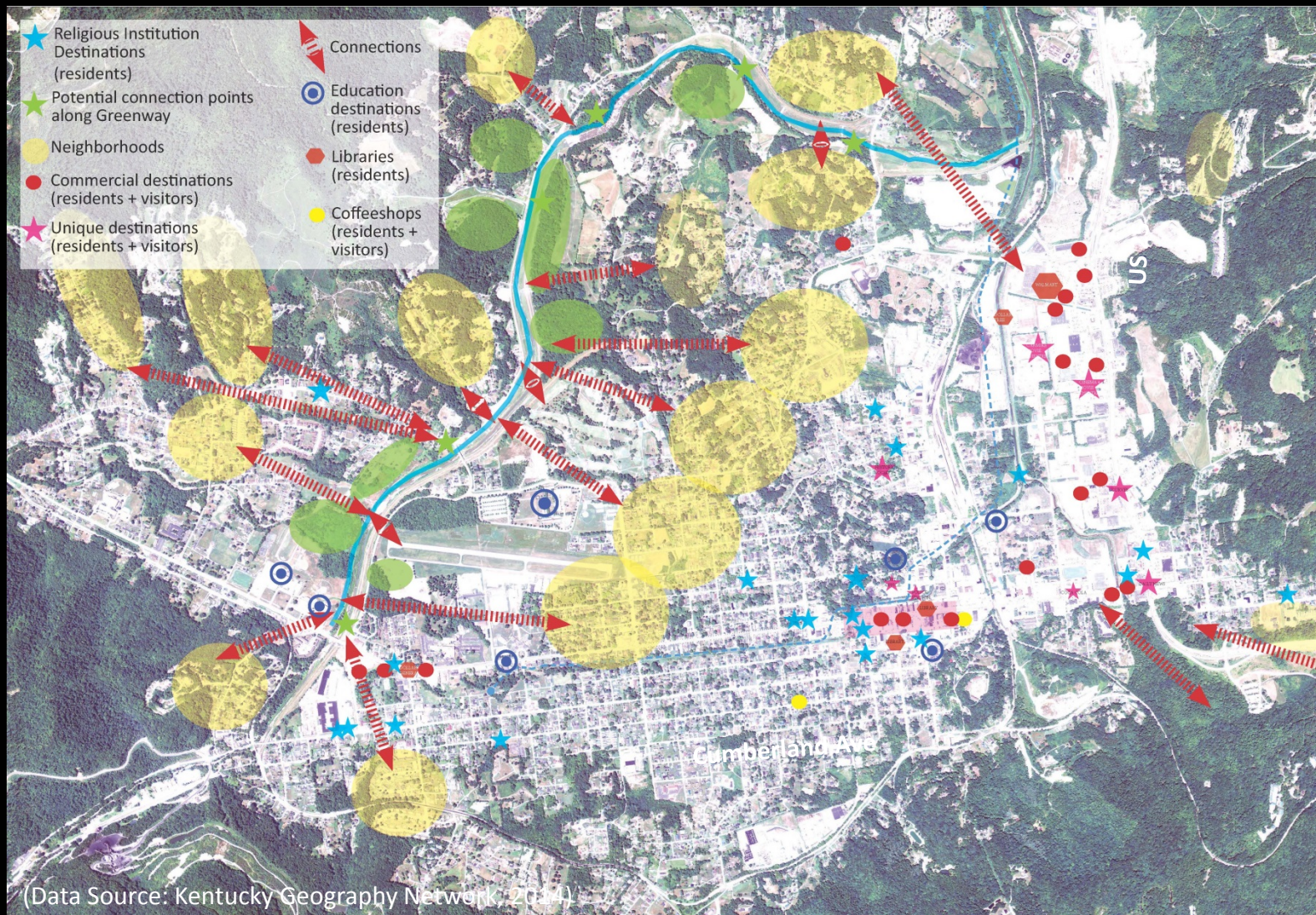


## Potential Gateway Park





## Destination Points

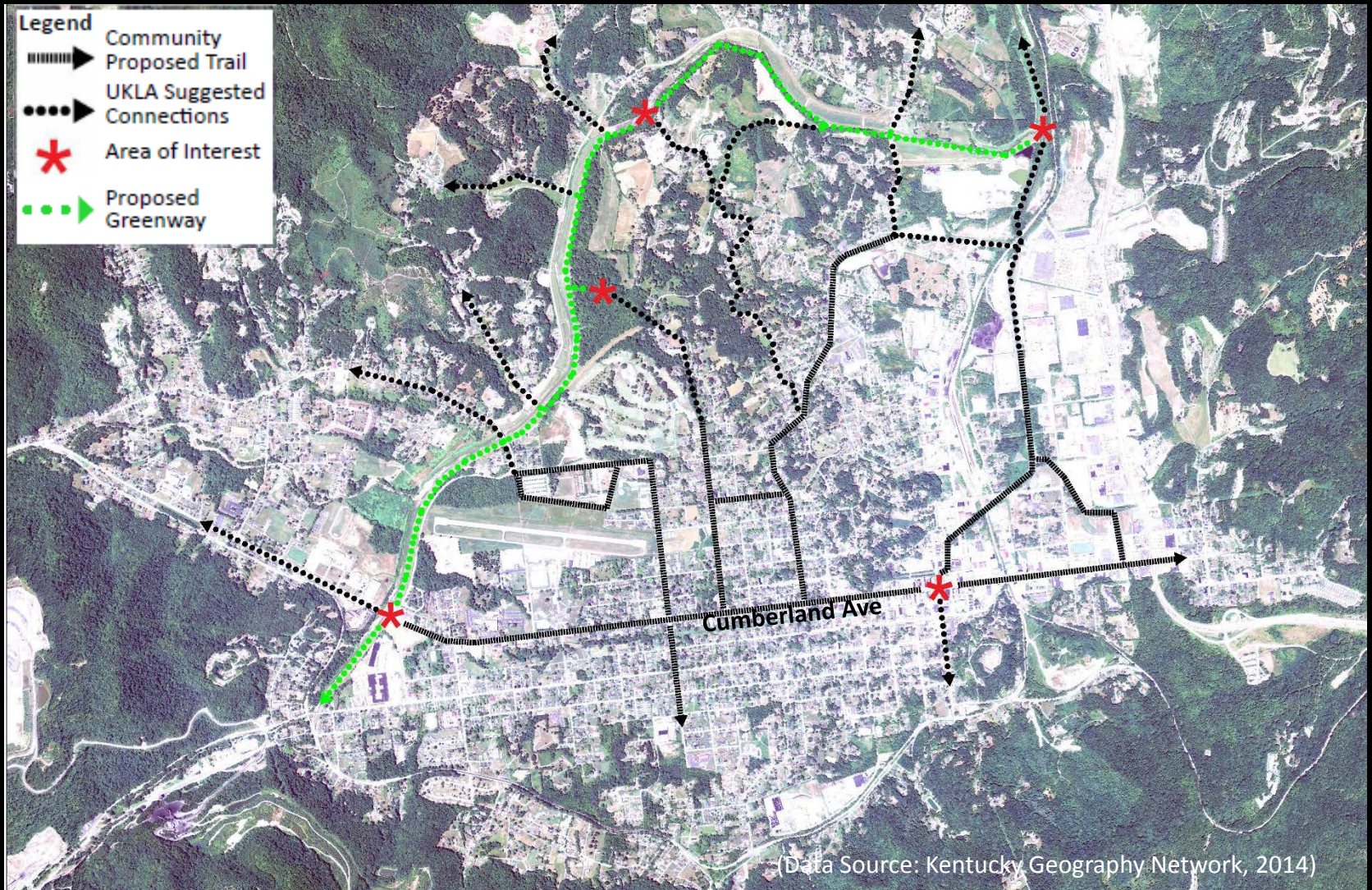




# Greenway – Possible Trail Connections



## Possible Trail Connections





## Summary

Revitalize the Greenway through:

- Educational Opportunities
- Recreational Opportunities
- Connection to Downtown
- Connection to Canal
- Mitigating Flood Risk
- Mend Stream Stability
- Improve Overall Ecosystem

# Presentation Outline



# Wayfinding – Conceptual Ideas



## Existing Middlesboro Signage








# Wayfinding – Conceptual Ideas



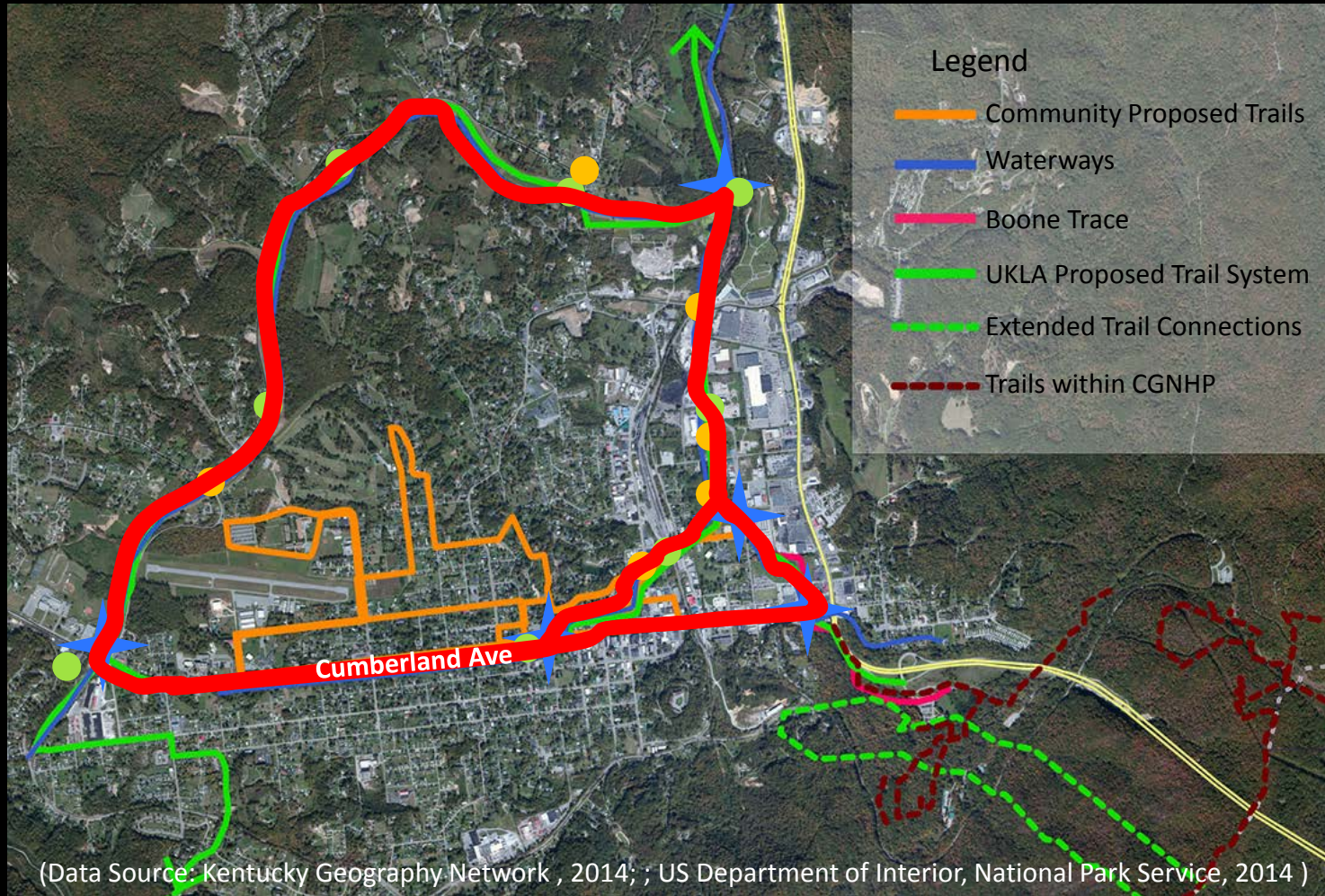
## Proposed Signage Location Map

-  Trailhead
-  Secondary Trail Intersections
-  1 Mi. Marks

Inner loop 2mi

Small outer loop 7mi

Big outer loop 7.6mi



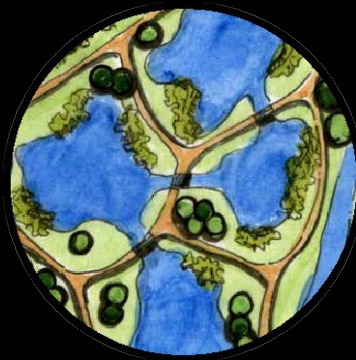


## Sign Elements from Proposed Design Solutions

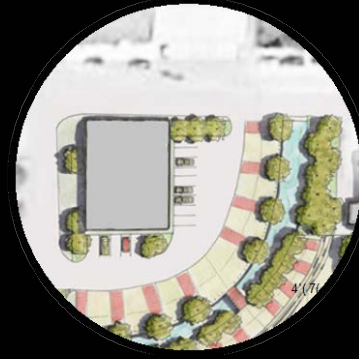
Canal Walk



Greenway



Downtown





# Summary



## Summary

Revitalize the City of Middlesboro through:

- Instituting opportunities for tourism
- Increasing connectivity through trail use
- Beginning a connection to Cumberland Gap National Historical Park
- Enhancing public safety
- Providing a healthy environment
- Promoting socialization
- Creating a series of interactive and educational spaces
- Establishing a recreational corridor

# Presentation Outline





Any Questions?