Fleming Neon, KY

Downtown Revitalization

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Martin-Gatton College of Agriculture, Food and Environment

-01-

Fleming Neon, Kentucky

-02-

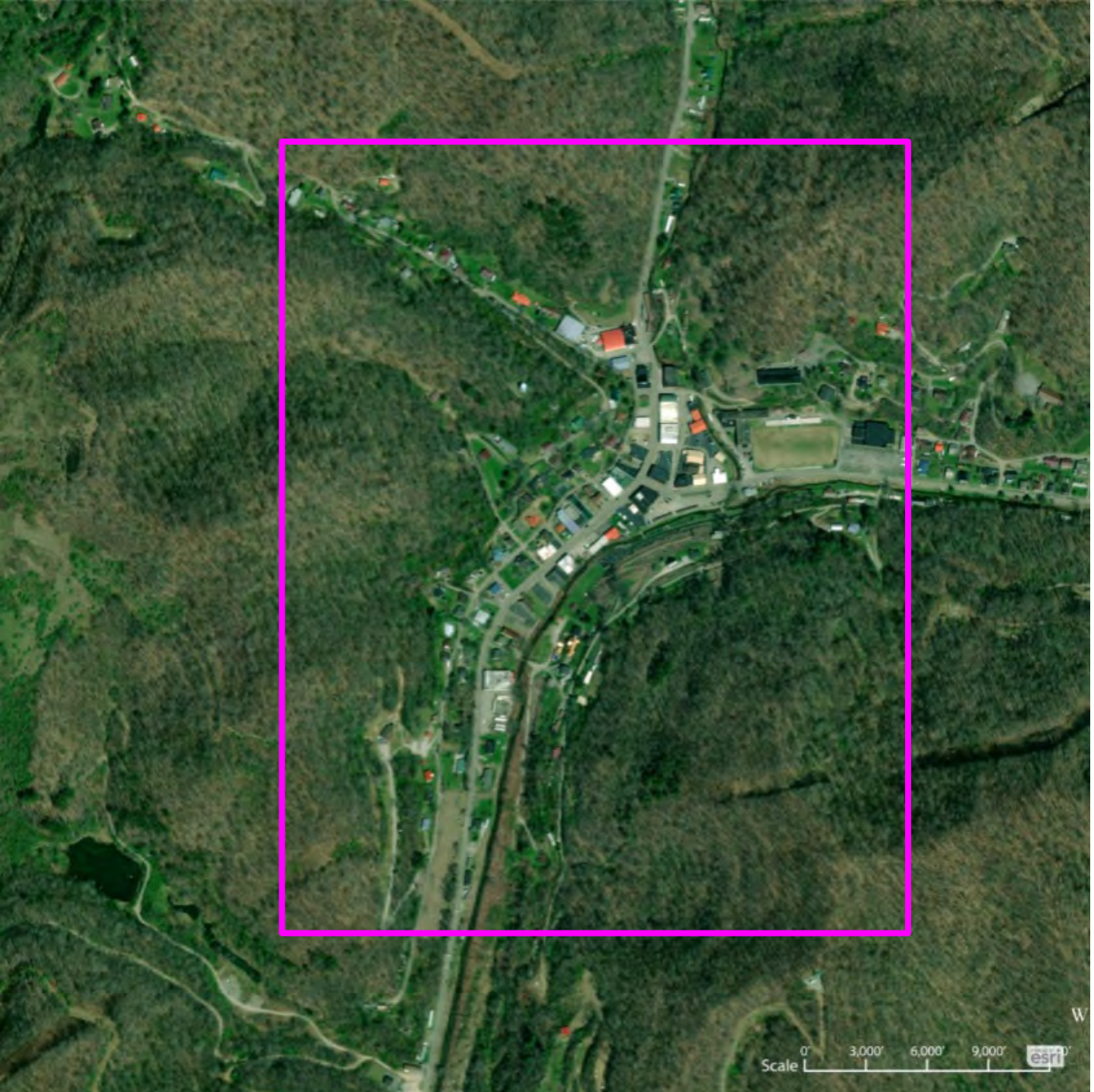
Site Analysis

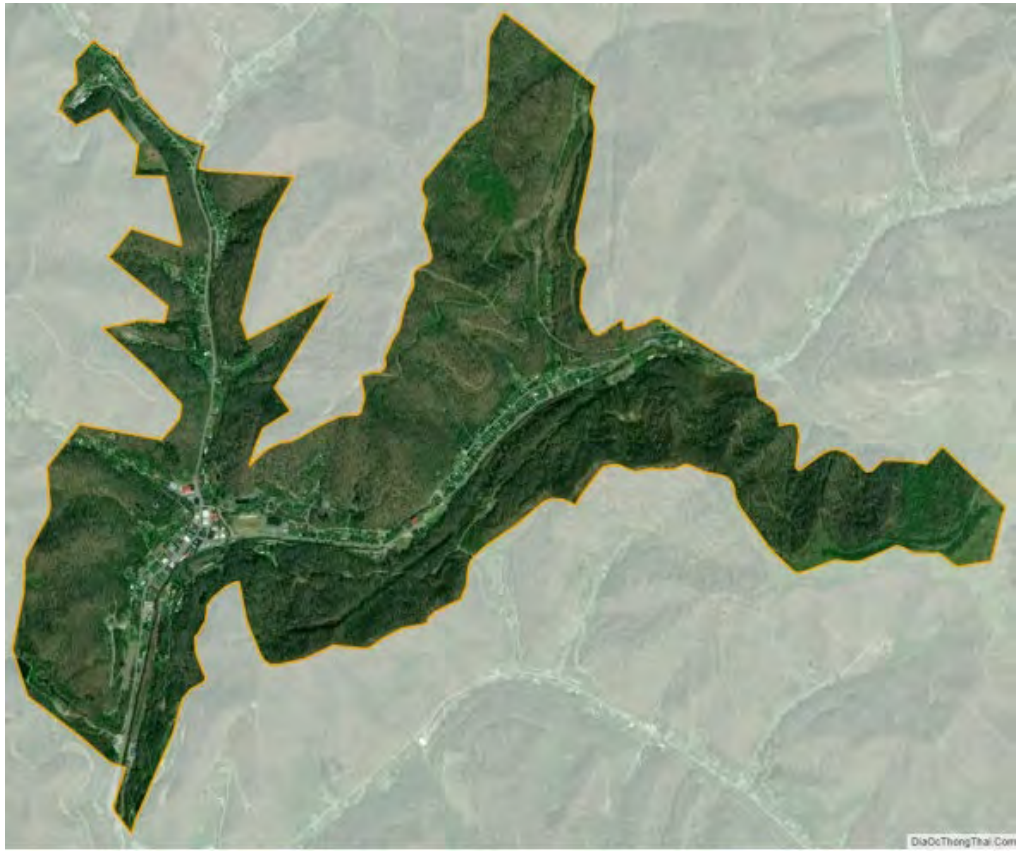
-03-

Project Goals

-04-

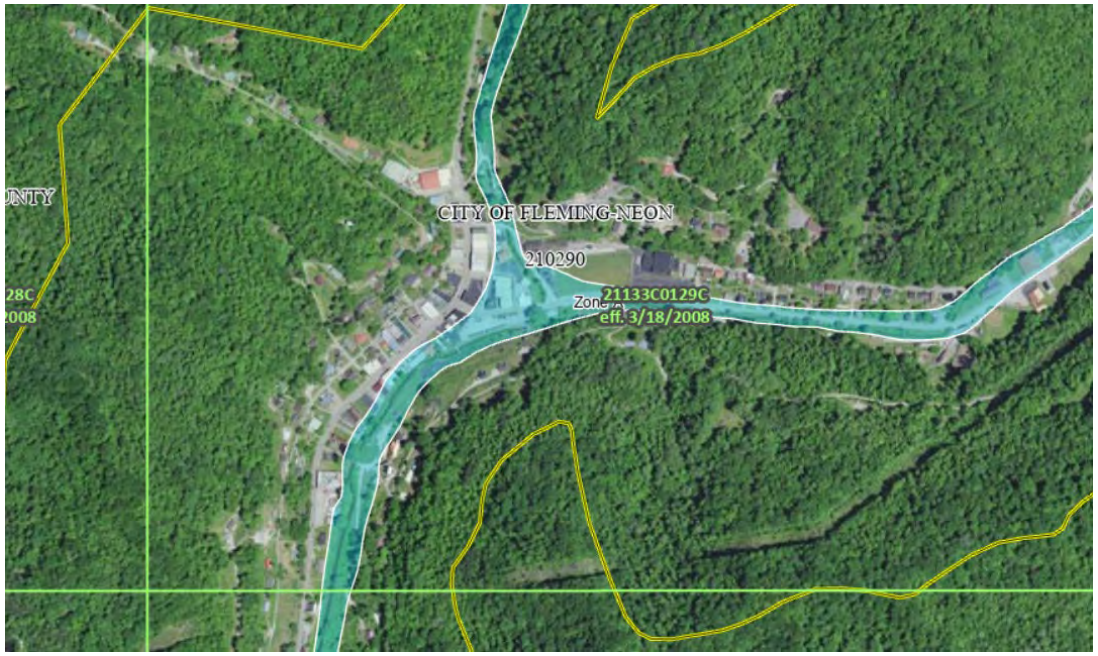
Existing Site

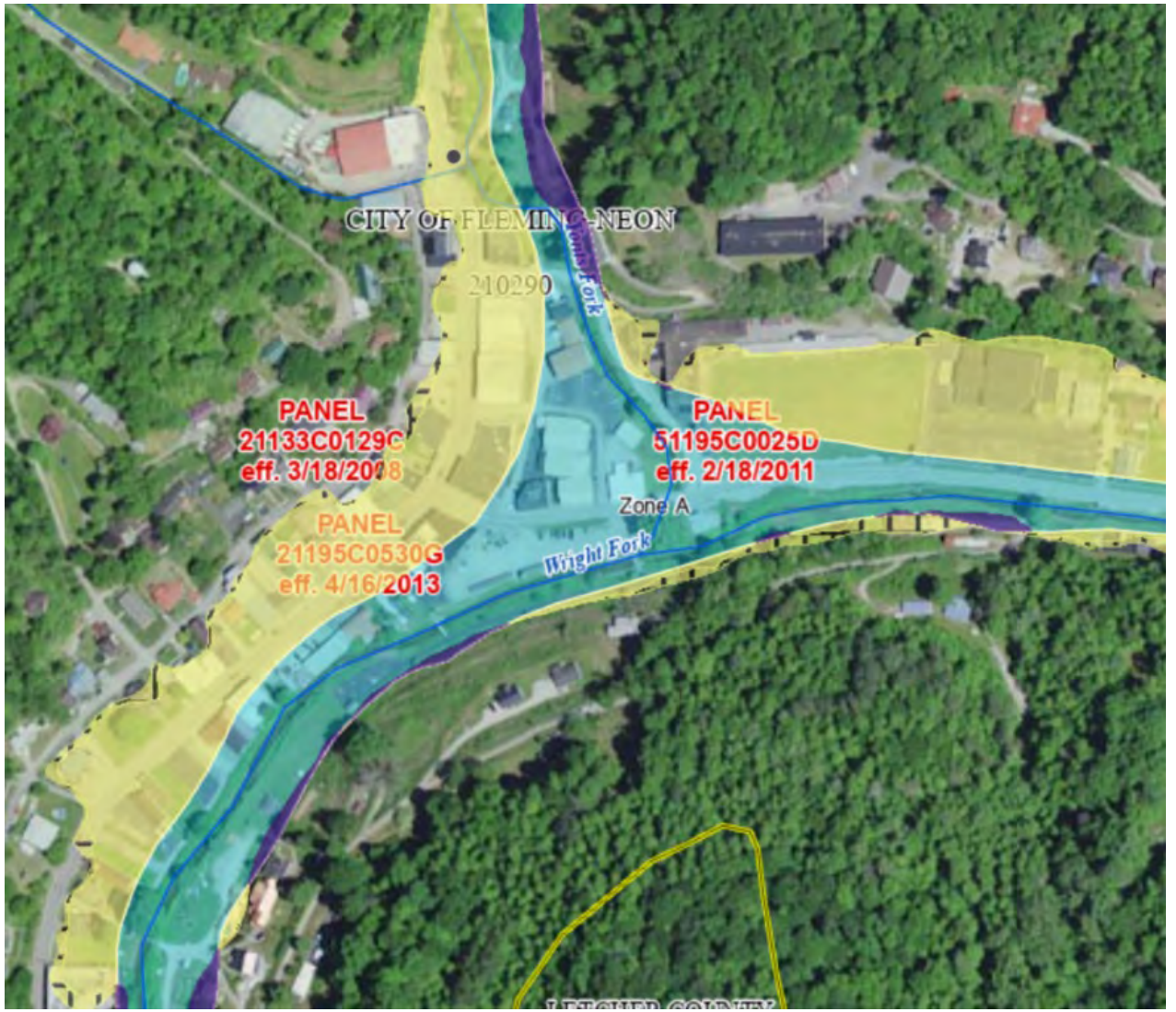




Downtown

Analysis

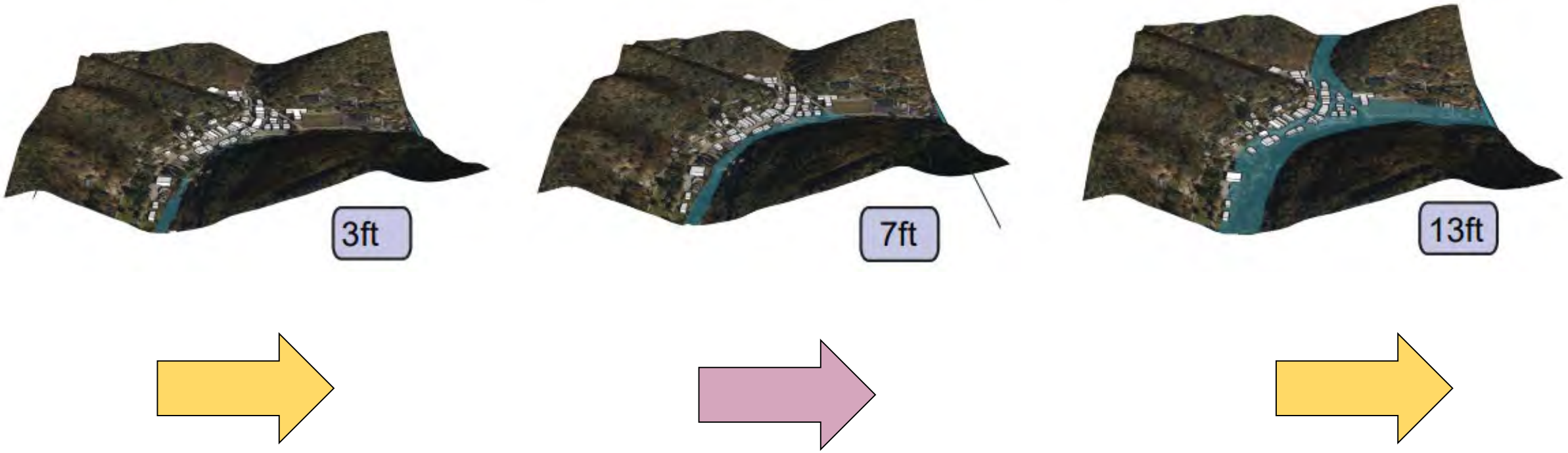


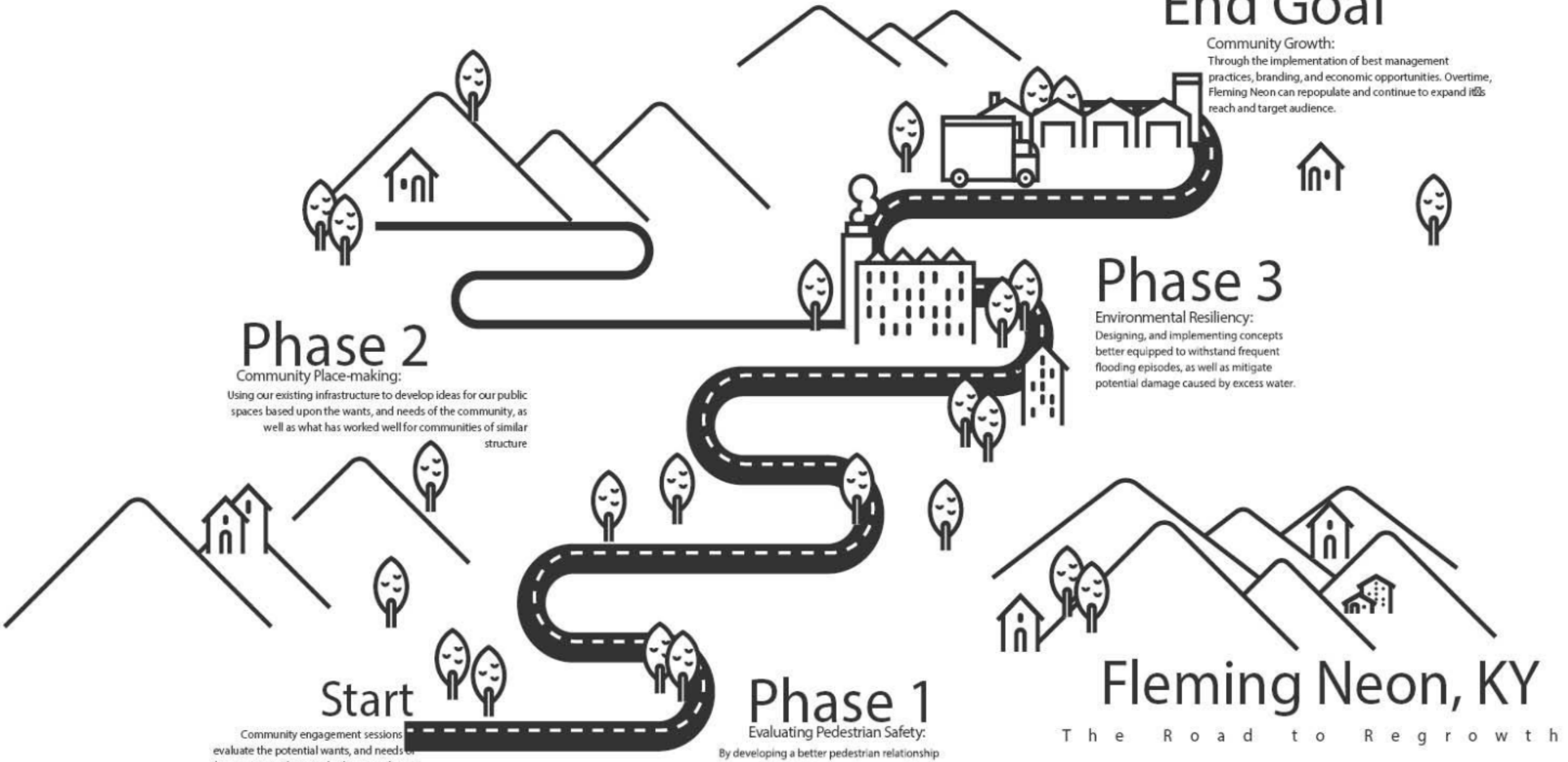


Legend

- Annual 1% Flood Hazard
- Increased Flood Hazard
- Decreased Flood Hazard
- Non-special Flood Area Increase

Flood Levels





End Goal

Community Growth:

Through the implementation of best management practices, branding, and economic opportunities. Overtime, Fleming Neon can repopulate and continue to expand its reach and target audience.

Phase 3

Environmental Resiliency:

Designing, and implementing concepts better equipped to withstand frequent flooding episodes, as well as mitigate potential damage caused by excess water.

Phase 2

Community Place-making:

Using our existing infrastructure to develop ideas for our public spaces based upon the wants, and needs of the community, as well as what has worked well for communities of similar structure

Start

Community engagement sessions evaluate the potential wants, and needs of Fleming Neon. This can also be a good time to access the strengths and weaknesses of the site, and town

Phase 1

Evaluating Pedestrian Safety:

By developing a better pedestrian relationship to our roadways. We can create a more diverse, and welcoming street-scape that not only promotes downtown activity but influences community growth over time

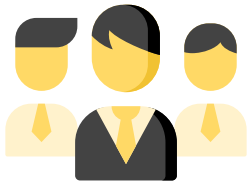
Fleming Neon, KY

T h e R o a d t o R e g r o w t h

Project Goals

Pedestrian Safety

Creating a better relationship between pedestrians and vehicles through the implementation of crosswalks, wayfinding, and planting buffers



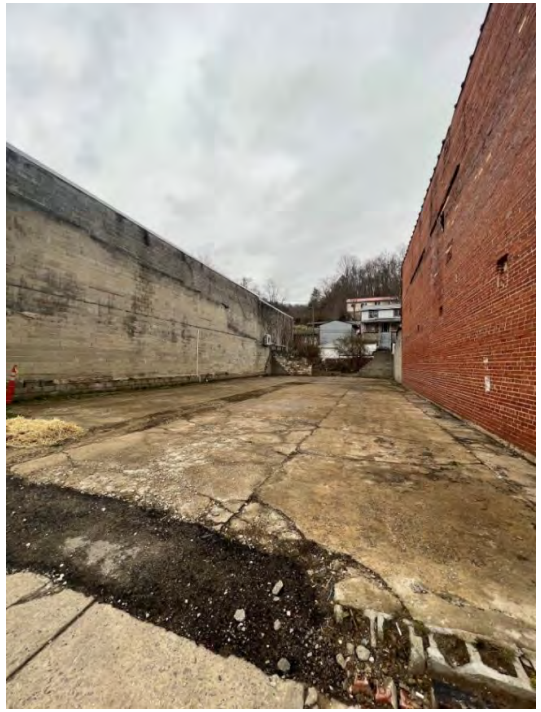
Resiliency

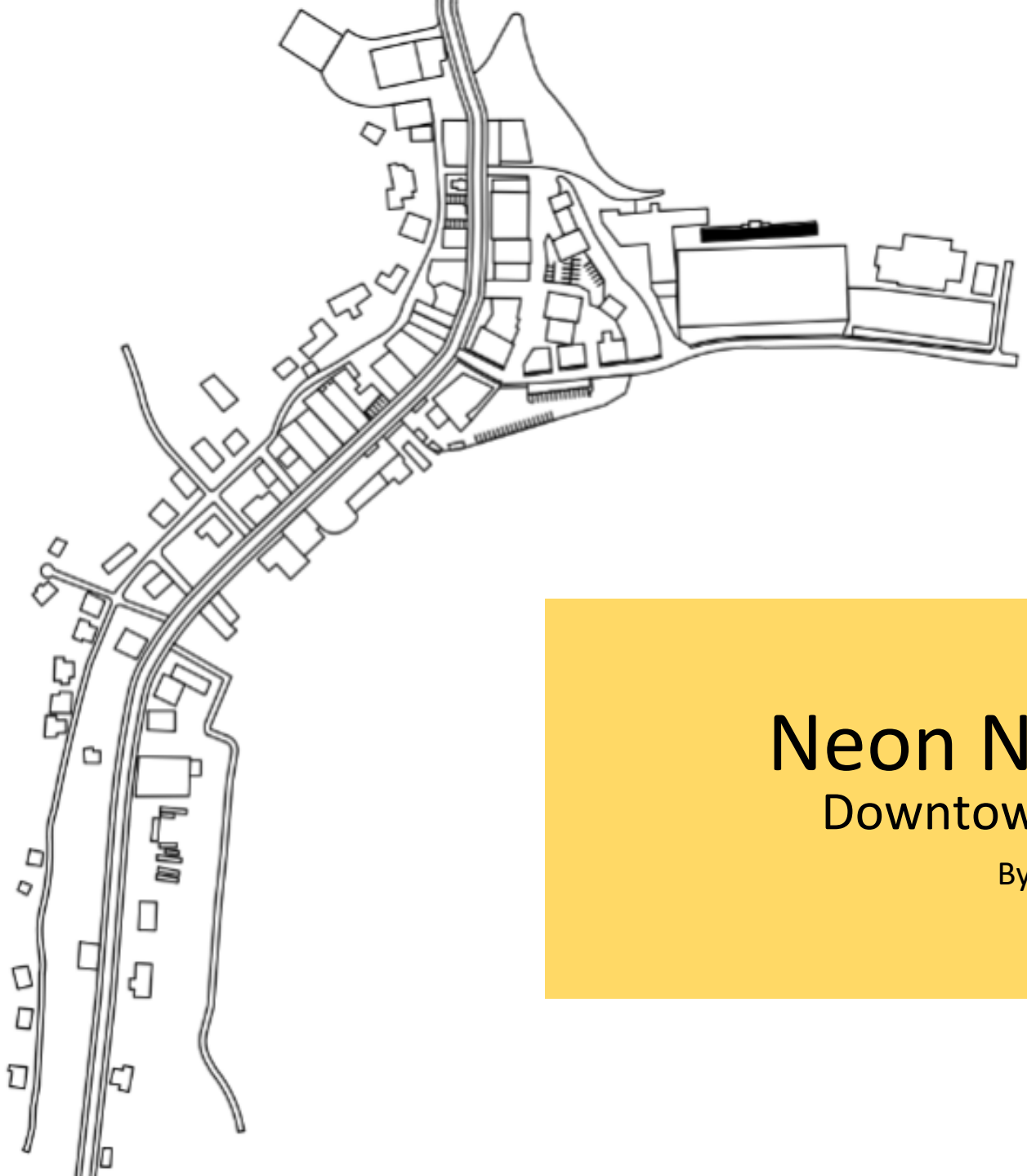
Designing useful community spaces that can anticipate the possibilities of flooding

Place-making

Creating a brand for the city that represents the past, present and future of Fleming-Neon that serves as an incubator for economic opportunity

Site Photos





Neon Nook Project

Downtown Revitalization

By: Taylor Lacy

Master Plan

A: Streetscape

B: Mixed Use Spaces

C: Community Retail | Service

D: Extra Parking

Legend

- Potential Development
- Existing Park/Green space
- Main-Street
- Neon Lights Building

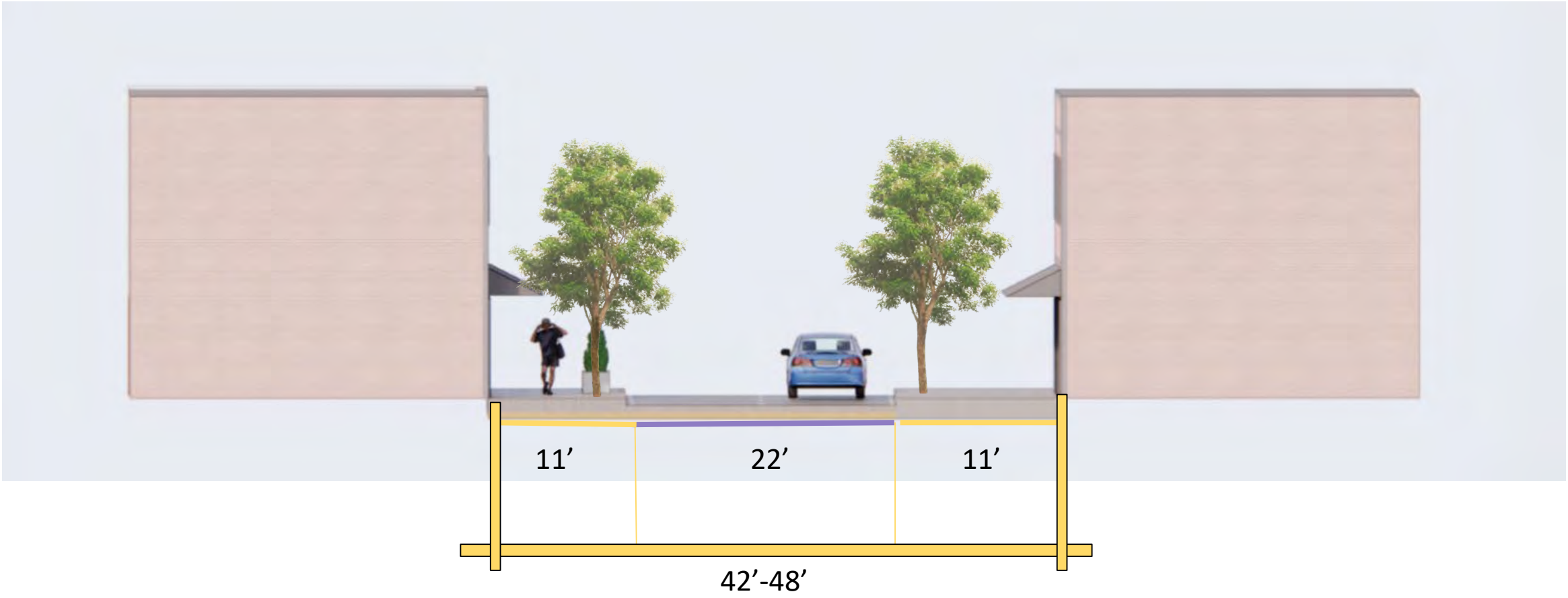
Creating Complete Streets:

Sidewalks: Reduce possibility of accidents. Streets with sidewalks on both sides have lower rates of accidents. Sidewalks create a sense of safety and welcomeness.

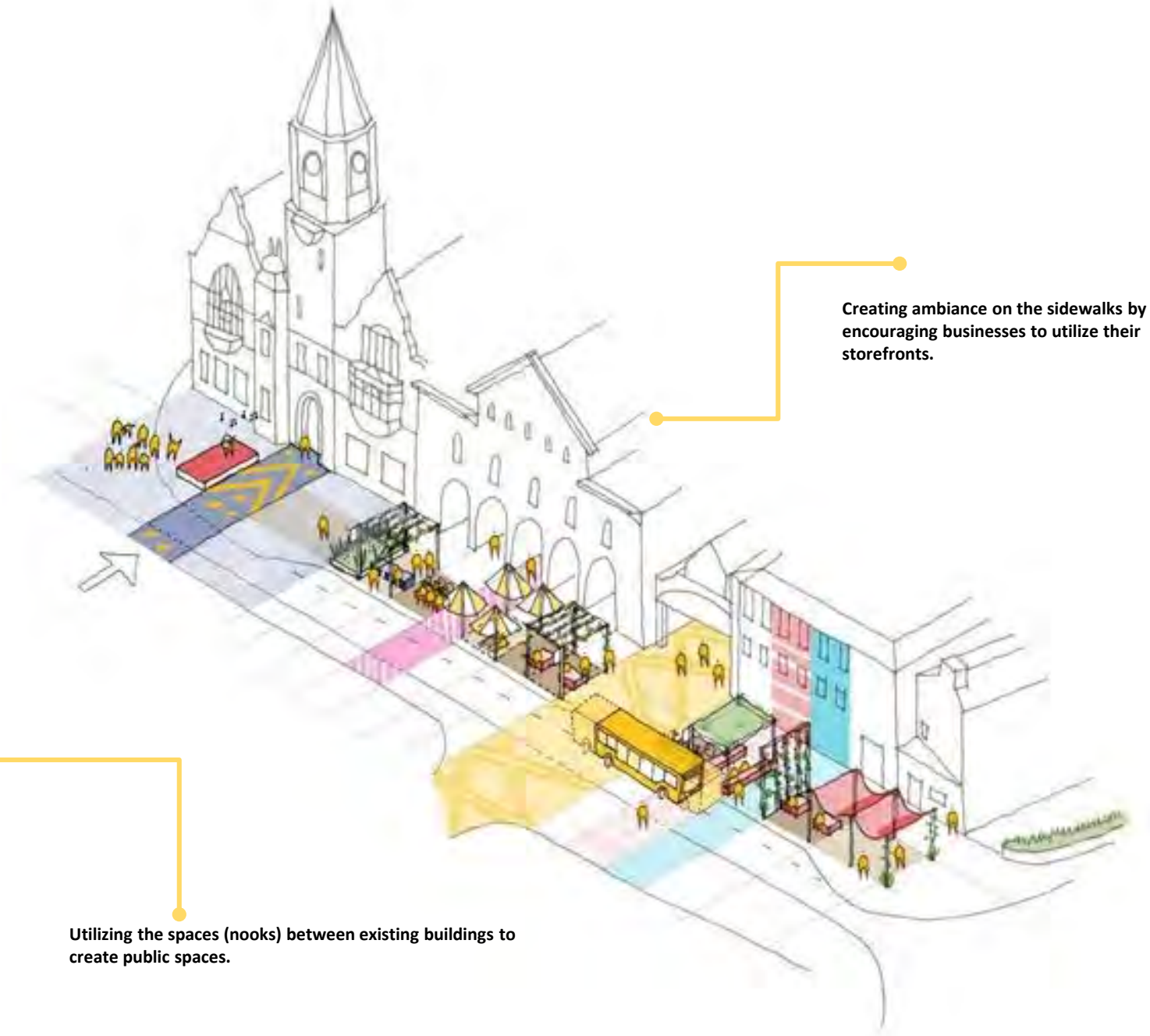
Street Trees: Reduce energy use and heat island effects. Reduce greenhouse gases. Reduce UV exposure. Increase residential property values.

Fleming Neon Streetscape:

Street Trees: Reduce energy use and heat island effects. Reduce greenhouse gases. Reduce UV exposure. Increase residential property values.



Precedent Images:



Creating ambiance on the sidewalks by encouraging businesses to utilize their storefronts.

Utilizing the spaces (nooks) between existing buildings to create public spaces.

Precedent Images:

Streetscape

Before

After

Streetscape

Vegetated buffer to protect pedestrians from vehicular traffic. This will also act as water infiltration to help mitigate stormwater runoff.

2 Lane road with parallel street parking in sections of the road with a wider width.

Streetscape

Utilizing pedestrian spaces for activity

Lighting and branding elements

Crosswalks

Streetscape Section

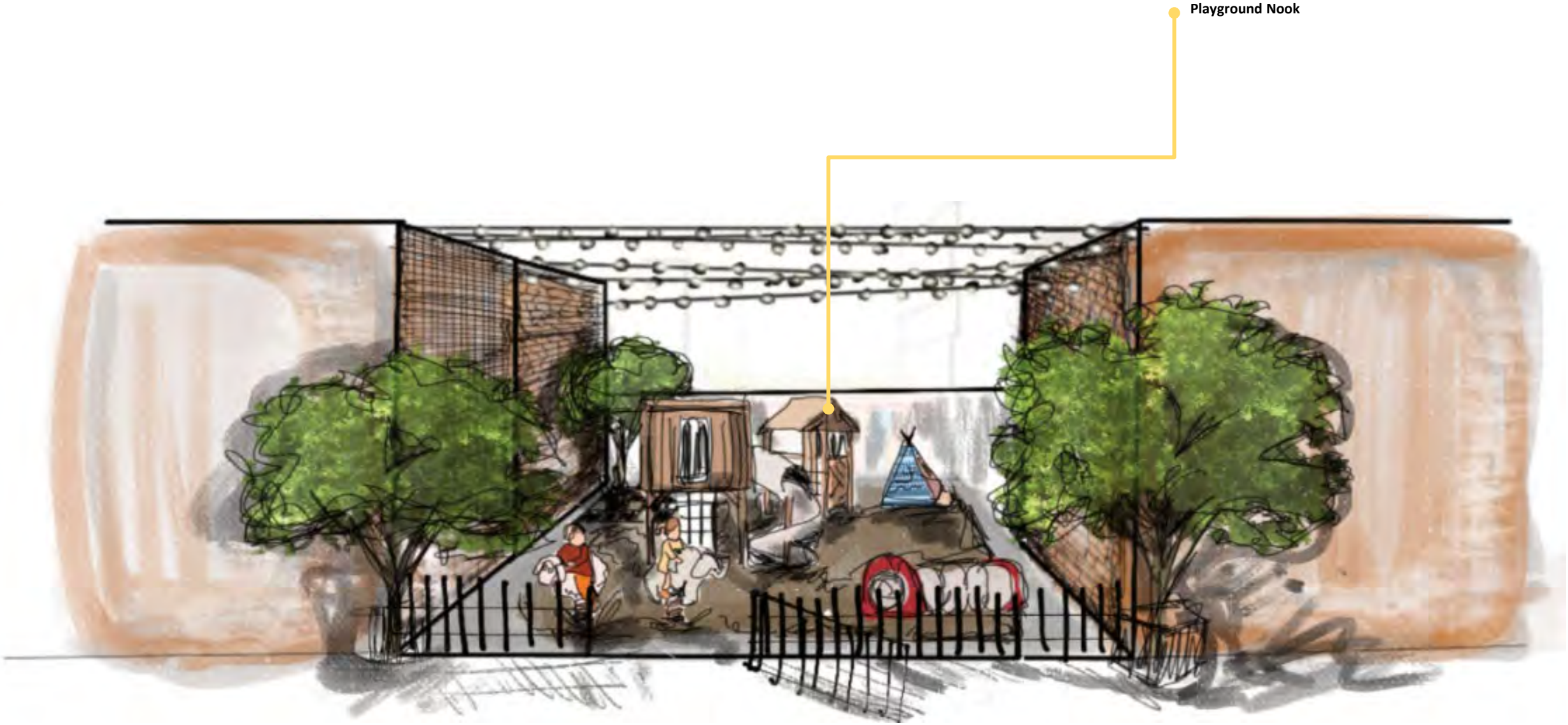
Utilizing pedestrian spaces for activity

Crosswalks

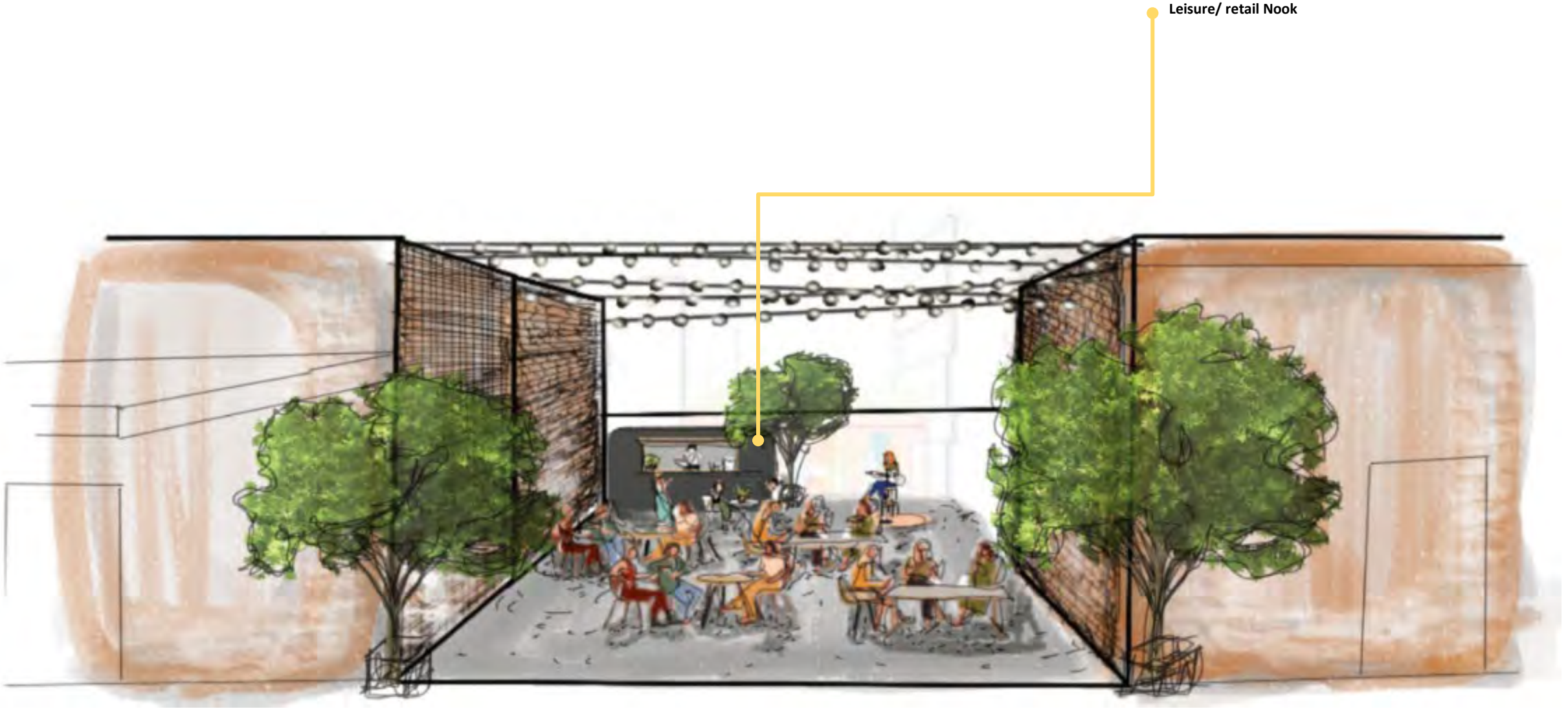
Planted buffer to protect pedestrians from vehicular traffic. This will also act as water infiltration to help mitigate stormwater runoff.

Lighting and branding elements

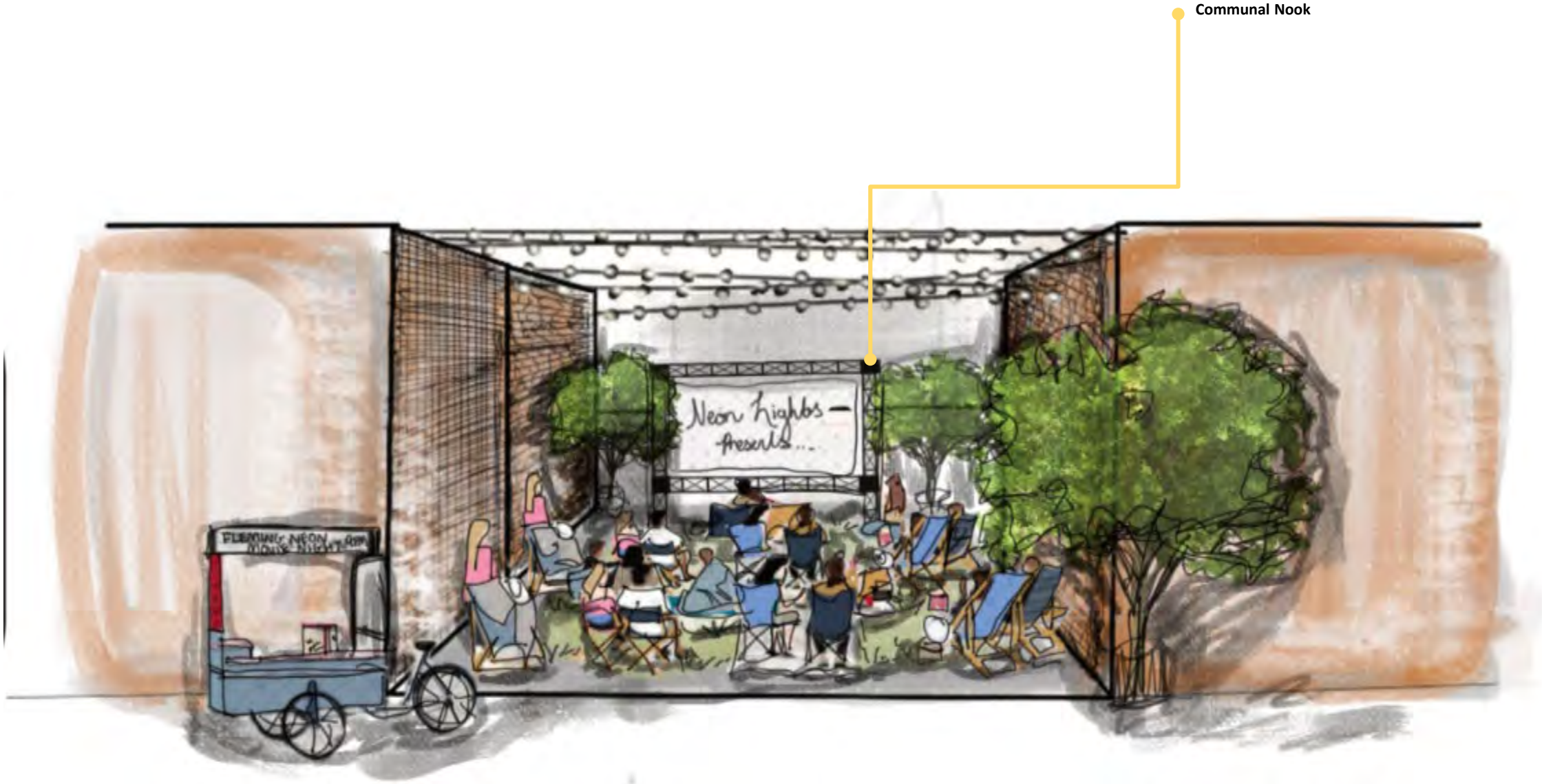
Pocket Parks & Neon Nooks:



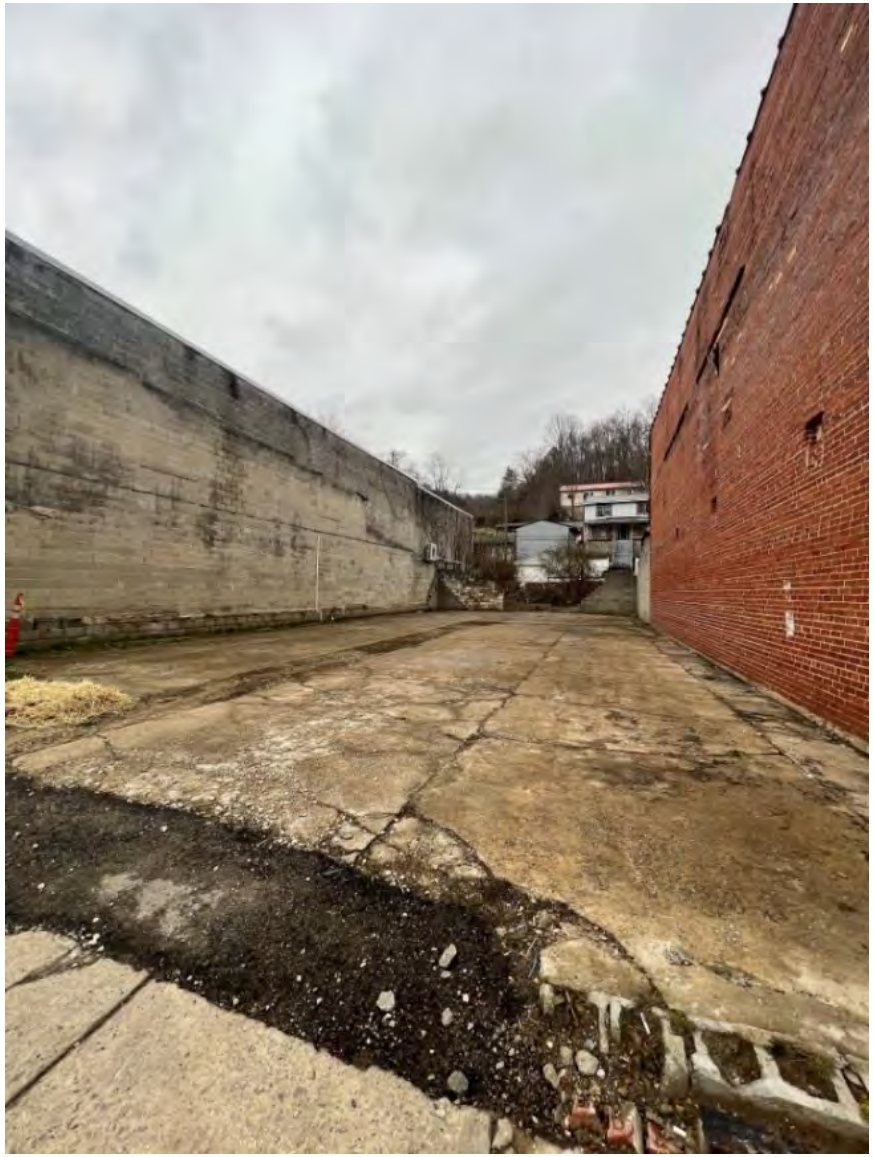
Pocket Parks & Neon Nooks



Pocket Parks & Neon Nooks



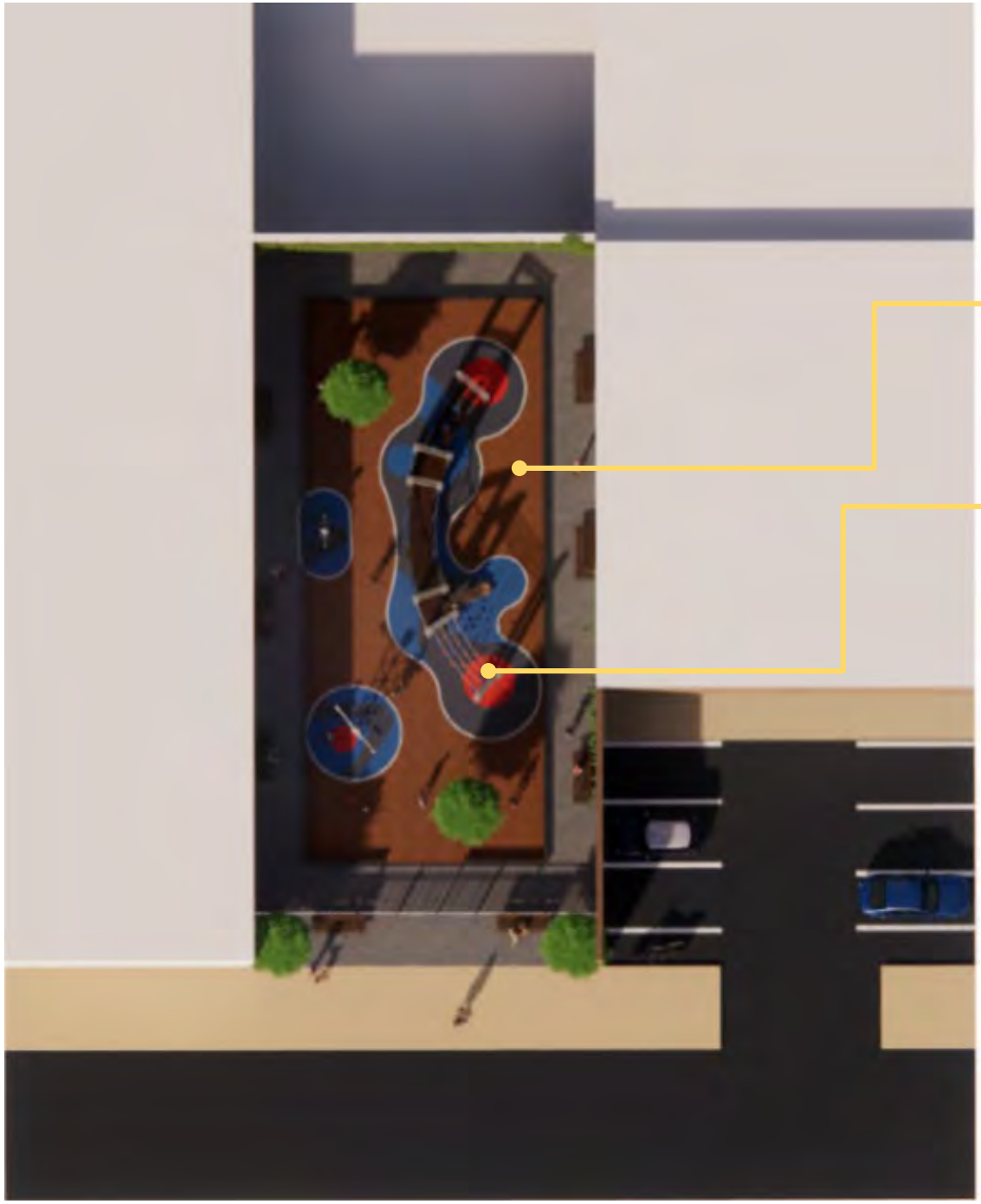
Nook A



Before

After

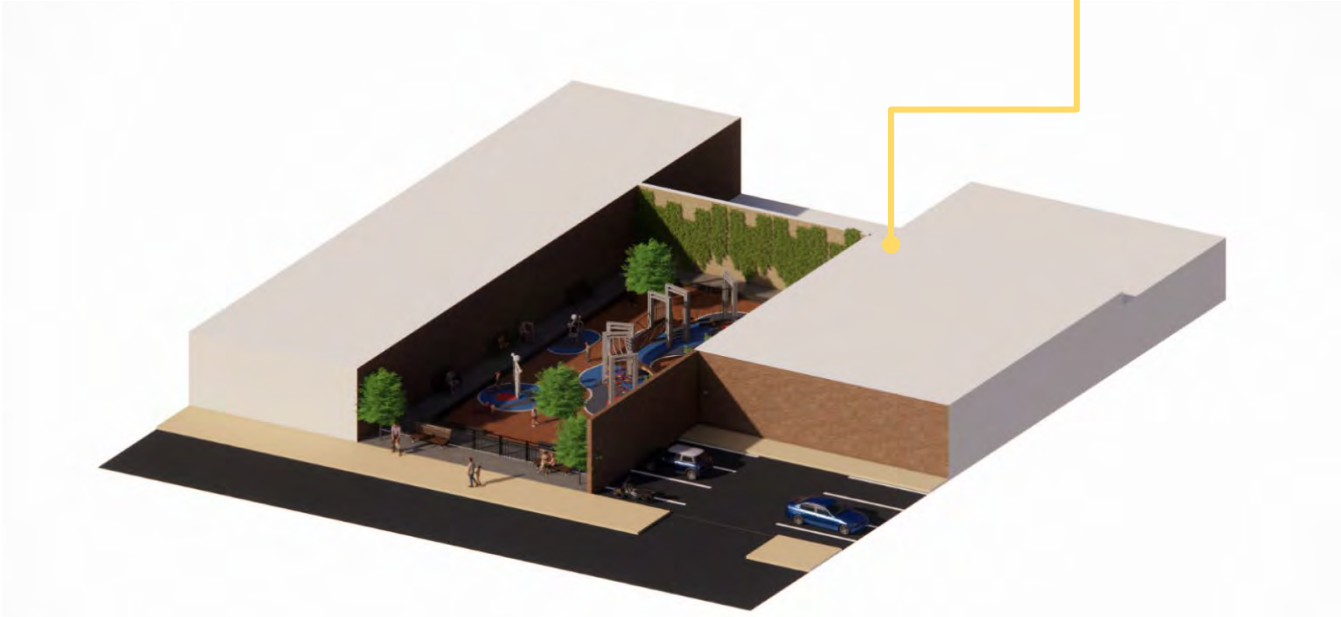
Play Nooks



Permeable materials to mitigate water

Play Structure

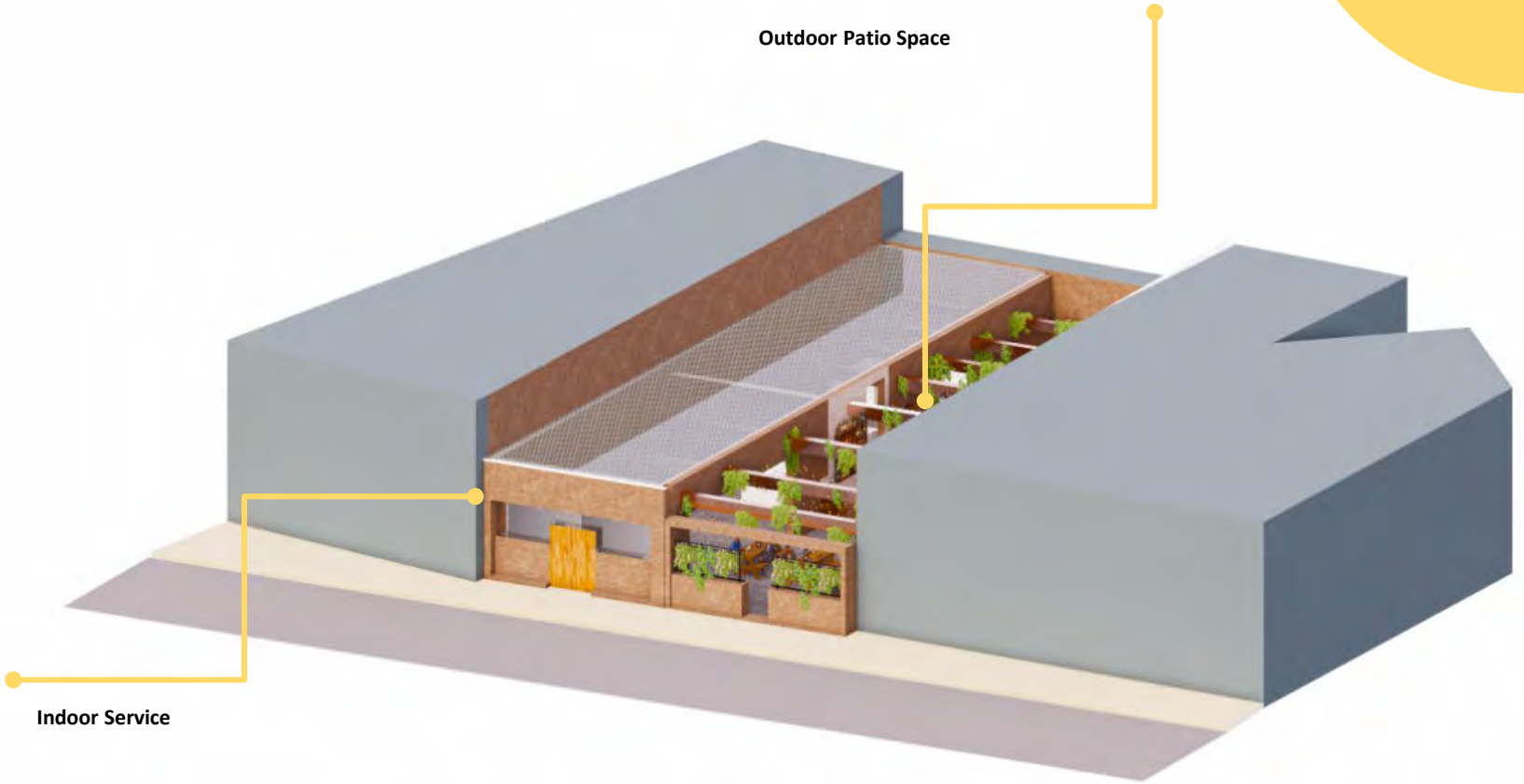
Street View



Before

After

Leisure Nook



Water resistant materials

Seasonal Furniture - easy to move

Permeable paving

Branding


LIGHT OF THE MOUNTAINS
Kentucky
FLEMING NEON
ESTABLISHED
19 77


FLEMING
"KNEE-ON"


EST 2024
KNEE ON
MARKET
LIGHT OF THE MOUNTAINS


THE
NEON
FARMERS MARKET


FLEMING NEON
Discover Appalachia

Downtown Fleming-Neon Revitalized

By: JaKobi McPherson

Downtown Fleming Neon

Background:

Oral history and photos show that downtown of Fleming-Neon had a vibrant street life, which included parking for residents and visitors. Fleming-Neon was an independent town among a network of coal company towns and was the place to be. People from surrounding communities used to stop, shop, and have fun. Fleming-Neon still has a strong community, and residents have a light that refuses to go out when it comes to the future. The spirit of community is felt in our designs, our ideas and in our hearts.

Scope:

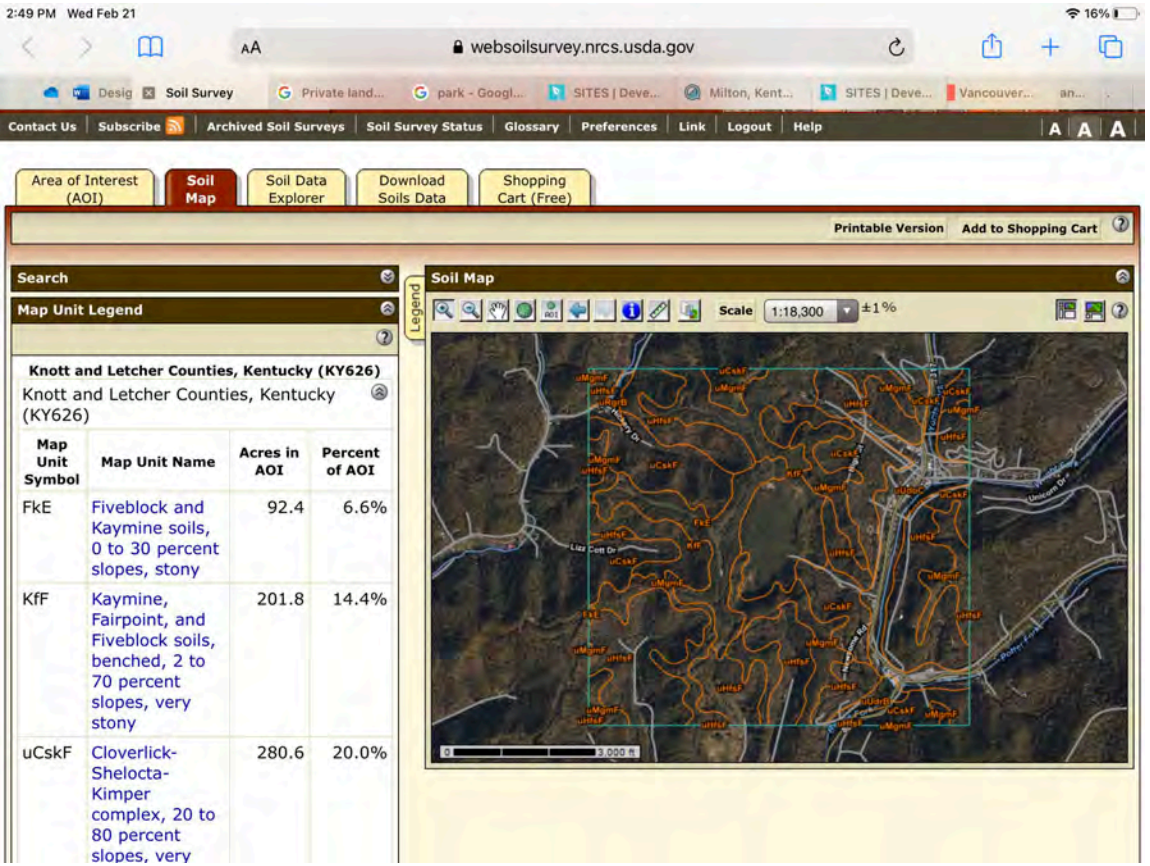
Our scope is to re-create the image of the streetscape of Fleming-Neon, bringing back on street parking. Having these designated areas for parking can take some of the worries away from finding a space. This will also bring some money into the city with parking meters for on street parking. Re-designing some of these spaces will help make downtown more comfortable by reducing dark pavement and increasing vegetation, which will also help reduce stormwater runoff. I propose some of these designated parking areas to have permeable pavers, which allow water to infiltrate into the ground instead of flowing into nearby streams.

Precedents

When discussing about this design, I questioned where to start first and what to consider when it came to the ideas that the community of Fleming-Neon has in plan for the future of the town. After getting those ideas and history about the town I started looking at maps.

I started to look at active and abandoned mine maps, and how that can shape some things when it comes to water and plant life. I also looked at some GIS maps of hydrology maps when it comes to flood levels. The 100 year flood maps came up for all of Fleming-Neon including the Junction. Seeing how water plays a role when talking about riparian zones, runoff from mountains, vegetation, sun and shade has an important role in how the community is shaped from 2 years ago.

Looking at soil maps also helps me understand what plants can thrive here and which ones can help serve the community in the most effective way possible.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SITES | Deve...
Vancouver...
Contact Us | Subscribe | Archived Soil Surveys | Soil Survey Status | Glossary | Preferences | Link | Logout | Help
Area of Interest (AOI)
Soil Map
Soil Data Explorer
Download Soils Data
Shopping Cart (Free)
Printable Version
Add to Shopping Cart
Search
Map Unit Legend
Knott and Letcher Counties, Kentucky (KY626)
Knott and Letcher Counties, Kentucky (KY626)
Map Unit Symbol
Map Unit Name
Acres in AOI
Percent of AOI
FkE
Fiveblock and Kaymine soils, 0 to 30 percent slopes, stony
92.4
6.6%
KfF
Kaymine, Fairpoint, and Fiveblock soils, benched, 2 to 70 percent slopes, very stony
201.8
14.4%
uCskF
Cloverlick-Shelocta-Kimper complex, 20 to 80 percent slopes, very
280.6
20.0%
Soil Map
Legend
Scale
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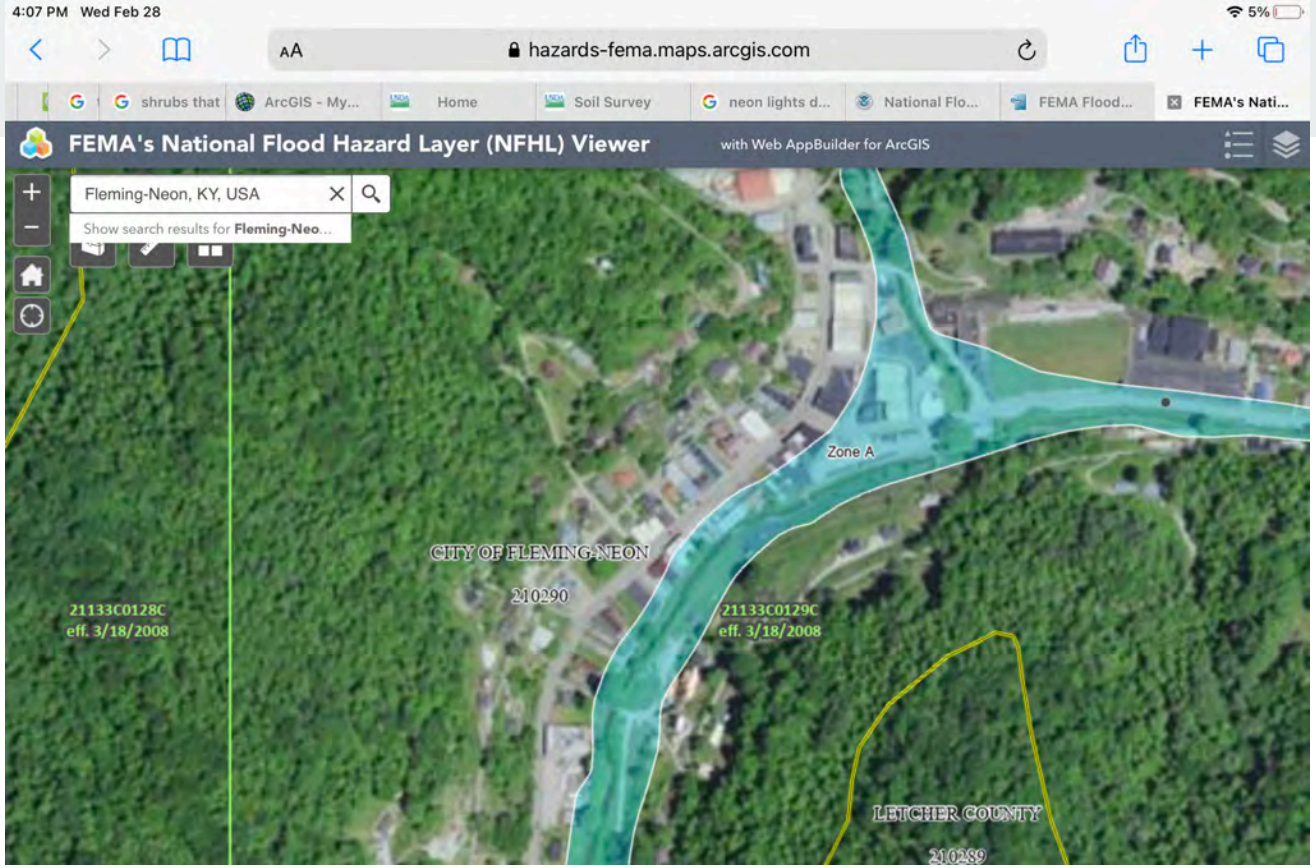
±1%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National Flo...
FEMA Flood...
FEMA's Nati...
FEMA's National Flood Hazard Layer (NFHL) Viewer
with Web AppBuilder for ArcGIS
Fleming-Neon, KY, USA
Show search results for Fleming-Neo...
Zone A
CITY OF FLEMING-NEON
210290
21133C0128C
eff. 3/18/2008
21133C0129C
eff. 3/18/2008
LETCHER COUNTY
210289


21133C0136C
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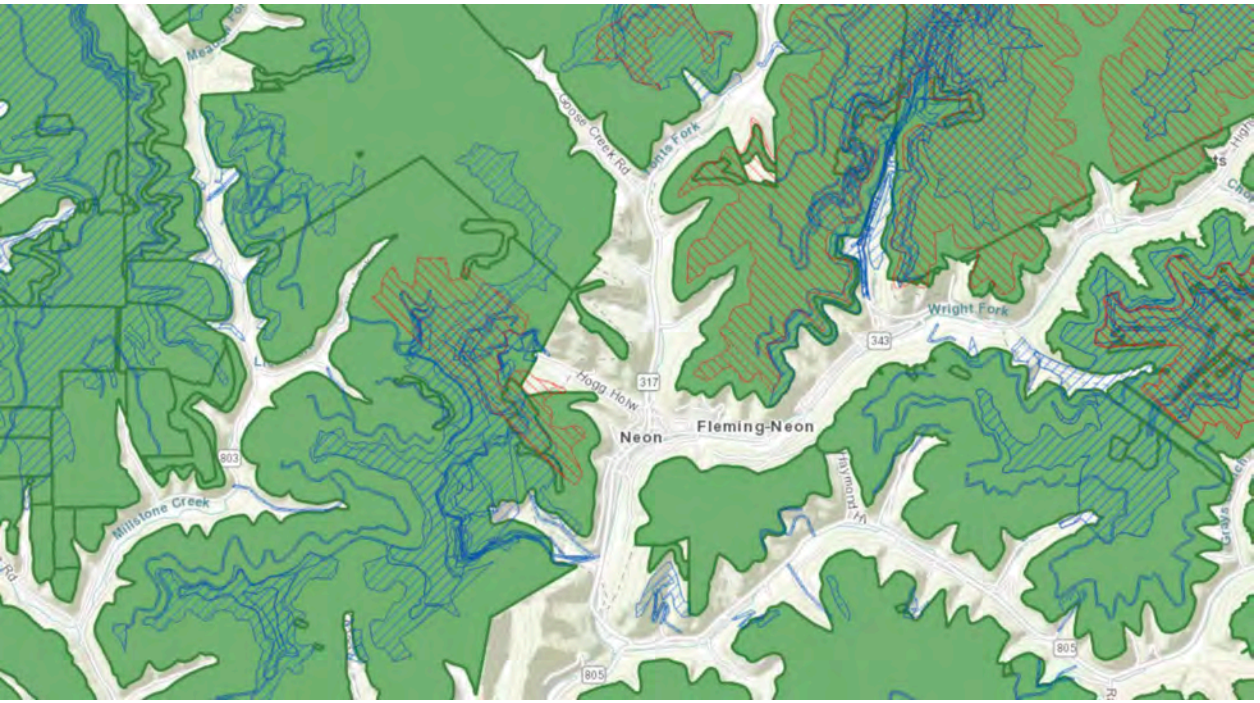
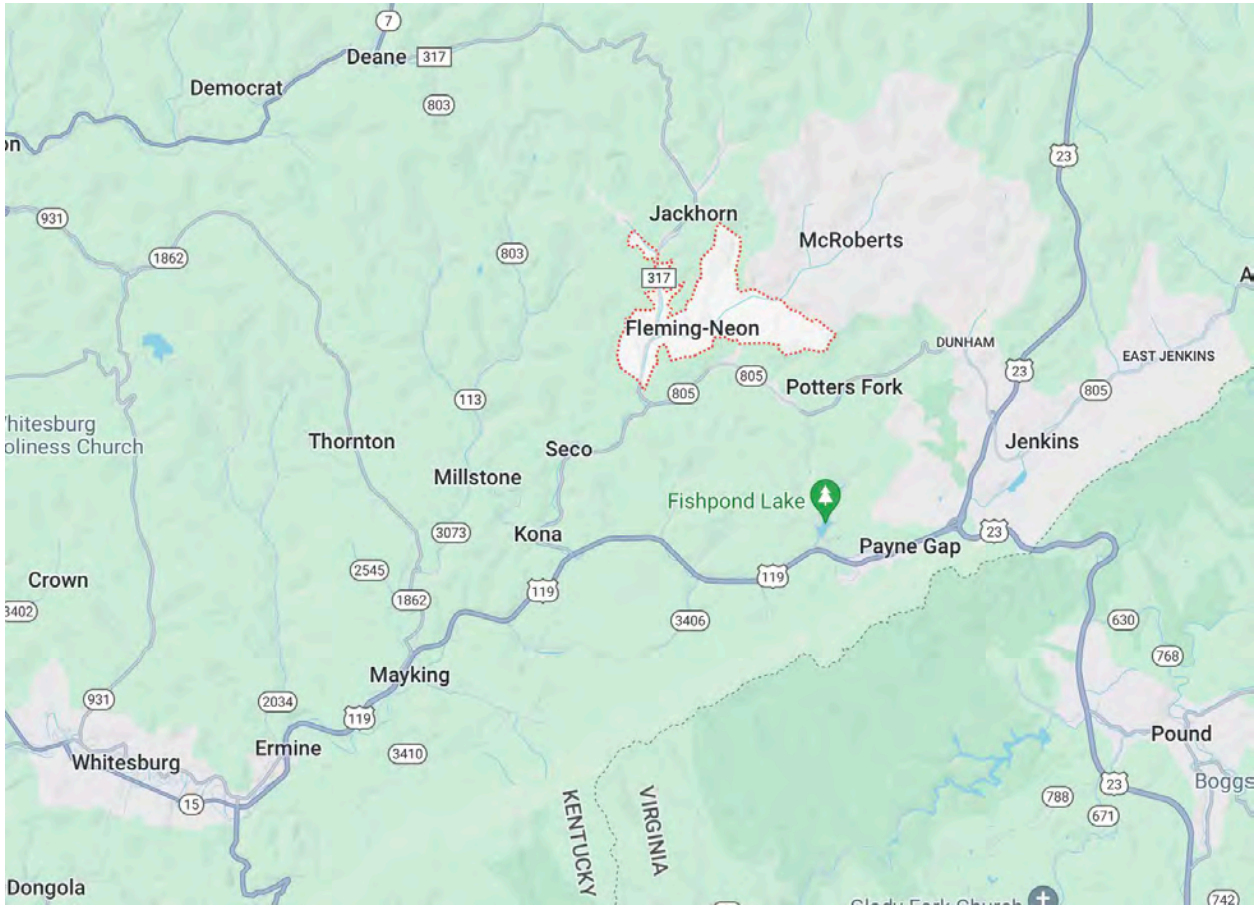
Zone A


Wright Fork
Neon
Fleming-Neon
Millstone Creek
317
343
805


Deane
317
Democrat
803
931
1862
Jackhorn
McRoberts
Fleming-Neon
DUNHAM
EAST JENKINS
Potters Fork
805
23
113
Thornton
Seco
Millstone
Jenkins
Fishpond Lake
Kona
3073
Payne Gap
119
Crown
2545
1862
3406
630
768
Mayking
931
2034
Pound
Ermine
3410
Whitesburg
15
788
671
KENTUCKY
VIRGINIA
Dongola

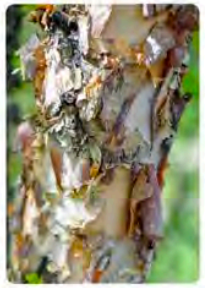
Red Maple

(Acer rubrum)

Plant: Tree (Deciduous)
Light: Full Sun to Part Shade
Soil: Moist
Height: 40-70 ft
Attracts: Bees, Butterflies, and Birds
Range: All regions of Kentucky, but rare in the Inner Bluegrass

River Birch

(Betula nigra)



Plant: Tree (Deciduous)
Light: Full Sun to Part Shade
Soil: Moist to Wet
Height: 30-70 ft
Attracts: Butterflies and Birds
Range: All regions of Kentucky, except the Bluegrass

Eastern Redbud

(Cercis canadensis)

Plant: Tree (Deciduous)
Light: Full Sun to Part Shade
Soil: Moist
Blooms: Apr
Height: 20-30 ft
Attracts: Bees, Butterflies, and Hummingbirds
Range: All regions of Kentucky

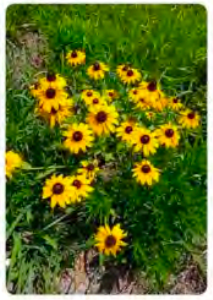
Flowering Dogwood

(Cornus florida)

Plant: Tree (Deciduous)
Light: Part Shade to Full Shade
Soil: Dry to Moist
Blooms: Apr to May
Height: 20-40 ft
Attracts: Bees, Butterflies, and Birds
Range: All regions of Kentucky

Black-Eyed Susan

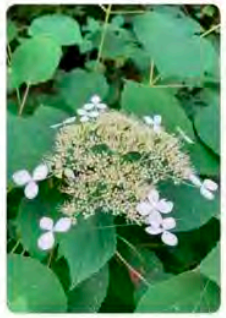
(Rudbeckia hirta)



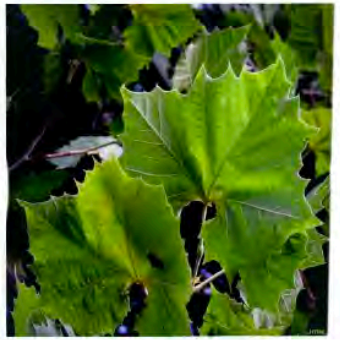
Plant: Forb (Biennial)
Light: Full Sun
Soil: Dry to Moist
Blooms: Jun to Sep
Height: 2-3 ft
Attracts: Birds, Bees, and Butterflies
Range: All regions of Kentucky

Wild Hydrangea

(Hydrangea arborescens)



Plant: Shrub (Deciduous)
Light: Part Shade
Soil: Moist
Blooms: Jun to Aug
Height: 3-5 ft
Attracts: Bees, Butterflies, and Birds
Range: All regions of Kentucky



Switchgrass

(Panicum virgatum)

Plant: Grass (Perennial)
Light: Full Sun to Part Shade
Soil: Dry to Moist
Height: 3-6 ft
Attracts: Butterflies and Birds
Range: All regions of Kentucky

Cardinal Flower

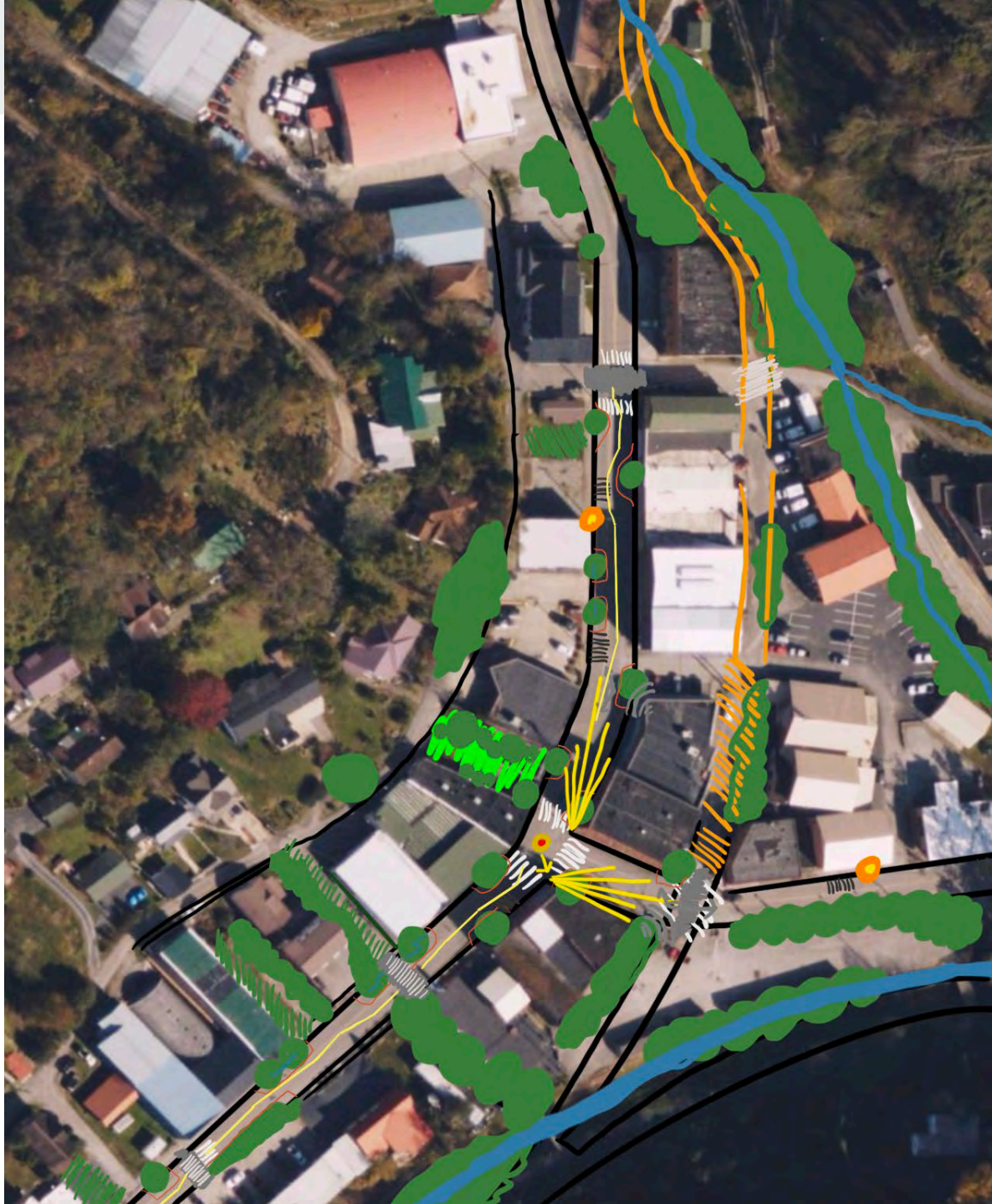
(Lobelia cardinalis)

Plant: Forb (Perennial)
Light: Full Sun to Part Shade
Soil: Moist to Wet
Blooms: Jul to Sep
Height: 2-4 ft
Attracts: Bees, Butterflies, and Hummingbirds
Range: All regions of Kentucky, but uncommon in Bluegrass.

Downtown Fleming-Neon Analysis

Streetscapes that incorporate bioswales, which collect and include native trees, plants and an overflow, can be effective soaking up water.

Shifting the center line can bring parallel parking to alternating sides of the street, creating easier access to local businesses while generating revenue for the town with parking meters.



Schematic design

Crosswalks and solar panel street lights will help improve pedestrian safety during the day and night. Improving visibility of the caution lights will help improve traffic safety at difficult intersections. Trees and vegetation will help create more shade for the downtown, helping to combat urban heat island effect, and provide visual interest throughout the year which can attract more visitors.

Master Plan

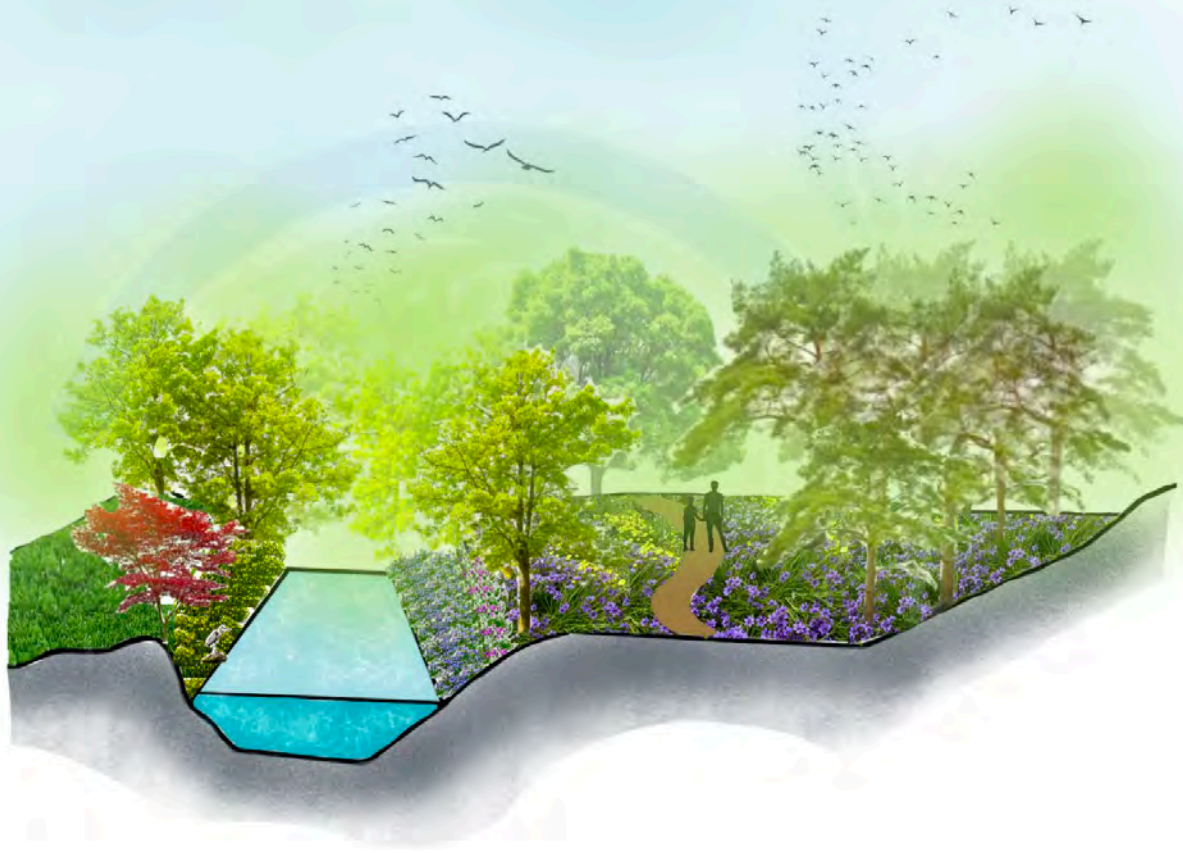
STREETSCAPE STORMWATER CONNECTIONS

Streetscape: The streetscape of downtown Fleming-Neon is transformed and the road is shifted to give on-street parallel parking. This gives the downtown community and residents a designated place to park. It also can give the economy of this town a little bit more funding with meters on the on road parking. Shifting the center line to do so also makes cars go slower making it safer for pedestrians. There are also crosswalk opportunities throughout downtown.

Stormwater: At the end of these parking spots are small bioswales. Trees in the bioswales gives the downtown some shade, while also addressing flooding. Adding more trees and plants that like to get their feet wet and soak up water can help with flooding while also combating erosion on the banks of the streams. Planting riparian zones is helpful as well, stopping erosion and soil loss that would go into the stream, improving water quality. Permeable pavers in parking areas will reduce runoff.

Connections: Bringing back the trail system that goes from the Junction towards the heart of downtown Fleming-Neon. Develop trails to make a loop around the whole town and connect to other neighboring former coal towns. Include gathering areas, hangout spots and business opportunities.

Bioswale diagram
https://jpalandscapeblog.wordpress.com/2018/05/08/bio-swales/



Riparian planting and trail along stream corridor

Section

References:

https://www.researchgate.net/figure/Typical-design-of-a-bioswale-of-city-street-12_fig4_332623263

https://www.kynativeplants.com/post/kentucky-native-plants-landscaping

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