

UPPER MACUNGIE TOWNSHIP

Trail Connectivity & Walkability Plan

Public Meeting #2 – May 31, 2022

Agenda

1. Team Introduction
2. Review of Project Scope & Schedule
3. Review of previous meeting input
4. Update: Survey Monkey & Wikimapping results to date
5. UMT Site Visit: Observations
6. Base Mapping Presentation
7. Analysis
8. Preliminary Concepts: Application of Improvement 'Toolbox'
9. Public Input & Discussion
10. Next Steps

Project Consultants

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Spotts, Stevens McCoy

Mark Stabolepszy

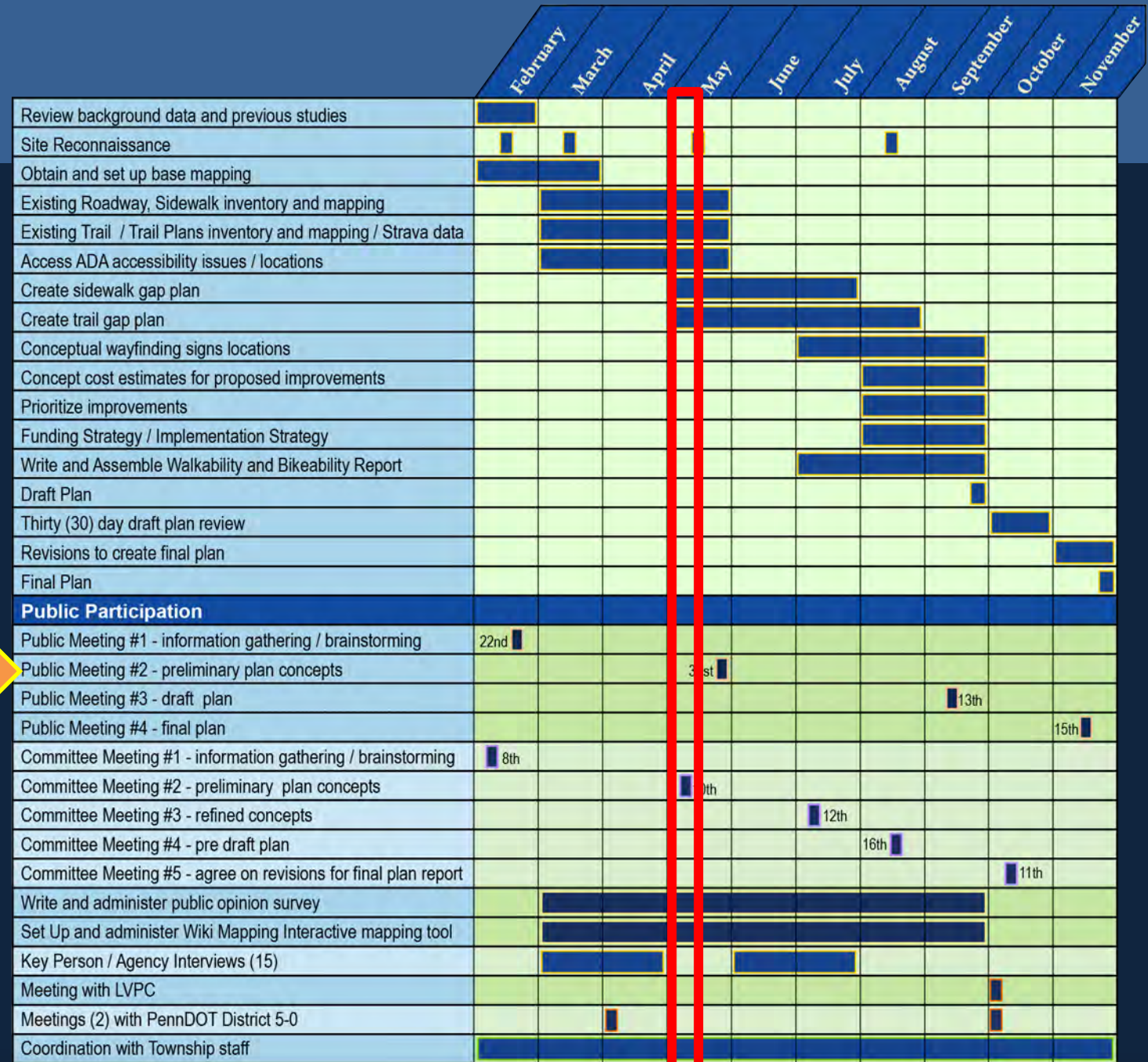
Mark.stabolepszy@ssmggroup.com

Project Steering Committee

| | |
|-----------------------|---|
| Jenna Azar | |
| Anitha Baru | Youth Association |
| Michael Beidler | Youth coach |
| Janet Bushinsky | Hiking, nature, birding, land naturalization |
| Byron Cook | Avid cyclist and walker |
| Steve Crampton | Avid cycling and hiker |
| Courtney David | Distance runner; avid user of trails |
| Amir Famili | Soccer Coach |
| Karen Fitzpatrick | |
| Kerri Green | |
| John Helffrich | Bicycling |
| Tim Helmer | UMT Planning Commission |
| Scott Johnson | |
| Suresh Jonnalagadda | |
| Matthew Joseph | Walking and running |
| Craig Kauffman | Avid hiking, backpacking; Boy Scouts |
| Thomas Male | Avid hiker and bicyclist |
| Mandy Marquardt | Bicycling |
| Gwen McCurdy | Avid runner/walker - Lehigh Valley Road Runners |
| Paul McNemar | UMT Planning Commission; Firefighter |
| Gail Micca | Cycling, youth fitness |
| Tricia Mohr | Running, walking, biking |
| Abigail Pasterski | Trail user |
| Bradley Reese | Outdoor enthusiast |
| Meg Schlauch | Walking |
| Yvonne Schweighardt | Park Development |
| Janet Shultz | Walk 4+ miles every day |
| Lora Spangler | |
| Christopher Stroehler | |
| Christopher Svetcov | Passion for hiking and the outdoors |
| Jennine Thomas | |

Project Schedule

- 4 Public meetings
- 5 Committee meetings
- 15 Key Person Interviews
- 2 Meetings w/ PennDOT
- Opinion Survey (7 mo.)
- Wikimapping
- Press Releases
- Township Staff meetings





Meeting Review



Public Meeting 1 - 2.22.22



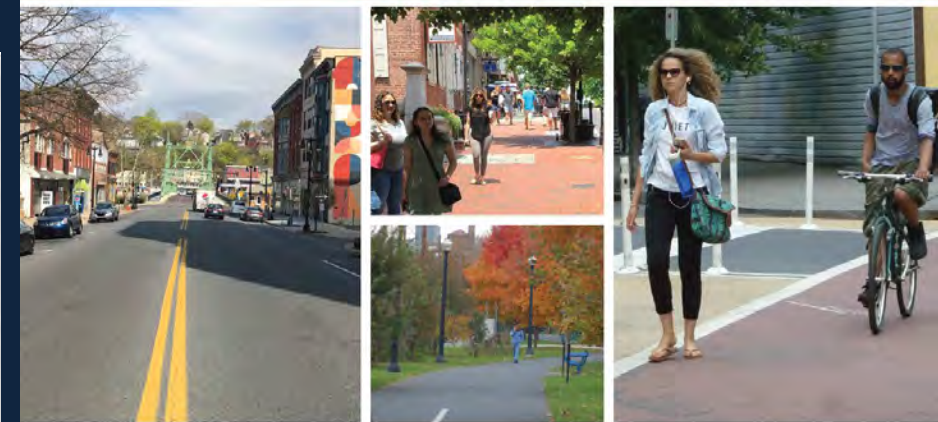


Upper Macungie Township 2019 Comprehensive Plan

Lehigh County, Pennsylvania



A Plan for Growth Management and Preservation



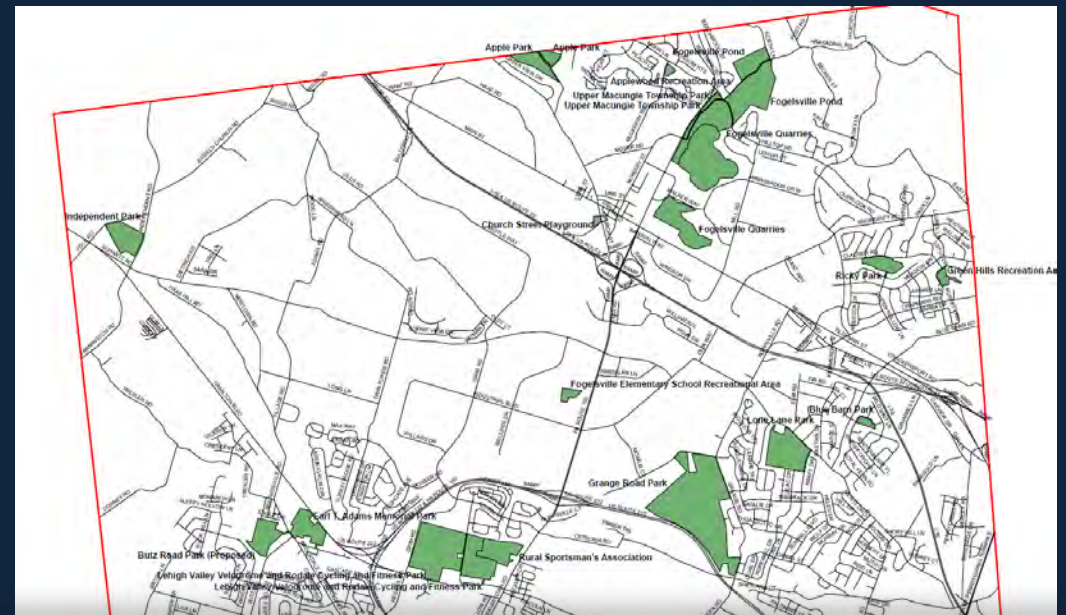
Adopted by Lehigh Valley Planning Commission: May 30, 2020
Adopted by Lehigh Valley Transportation Study: June 3, 2020



Lehigh Valley Trails Inventory – 2013 Lehigh and Northampton Counties



Lehigh Valley Planning Commission
May 2013



User Groups

Pedestrians



Active Lifestyle



Experienced

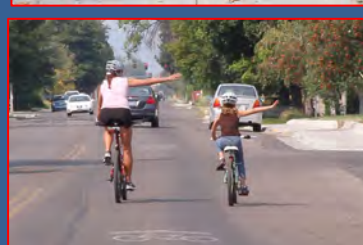


Cyclists

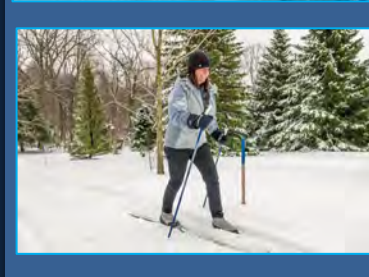
Casual



Child



Other Users



Design Guideline

Pennsylvania Trail Design & Development Principles
Guidelines for Sustainable, Non-motorized Trails

U.S. Department of Transportation
 Office of Planning
 Federal Highway Administration

September 2014
 2014-1001-1000-1-0000
 FHWA-1001-1000-1-0000

Statewide Pedestrian and Bicycle Planning Handbook

U.S. Department of Transportation
 Office of Planning
 Federal Highway Administration

September 2014
 2014-1001-1000-1-0000
 FHWA-1001-1000-1-0000

Maintenance Practices and Costs of Rail-Trails

U.S. Department of Transportation
 Office of Planning
 Federal Highway Administration

September 2014
 2014-1001-1000-1-0000
 FHWA-1001-1000-1-0000

Accessibility Guidebook for Outdoor Recreation and Trails

U.S. Department of Transportation
 Office of Planning
 Federal Highway Administration

September 2014
 2014-1001-1000-1-0000
 FHWA-1001-1000-1-0000

SEPARATED BIKE LANE PLANNING AND DESIGN GUIDE

U.S. Department of Transportation
 Office of Planning
 Federal Highway Administration

September 2014
 2014-1001-1000-1-0000
 FHWA-1001-1000-1-0000

Designing Streets for Kids

Global Designing Cities Initiative

Trails for All People

Guidance for Accessibility and Inclusive Design

We Conserve PA

Small Town and Rural Multimodal Networks

U.S. Department of Transportation
 Federal Highway Administration

DECEMBER 2016

Incorporating On-Road Bicycle Networks into Resurfacing Projects

U.S. Department of Transportation
 Federal Highway Administration

MARCH 2015

Don't Give Up at the Intersection

Designing All Ages and Abilities Bicycle Crossings

U.S. Department of Transportation
 Federal Highway Administration

MAY 2019

Your Ideas, Comments, Suggestions...

GOALS

A CONNECTIVITY
PLAN FOR THE
COMMUNITY OF
UMT

SAFETY!

LESS
RELIANCE ON
CARS

FACTS

CLOSE TO
RAIL

ROBUST
OFFICE
ENVIRONMENT

VARIED
LANDSCAPE

CONCEPTS

LIGHT UP
CROSSWALKS

SLOW TRAFFIC
SPEED

BEAUTIFICATION

USE OF
LIGHTING FOR
NIGHT WALKS

PA BIKE ROUTE
'L'

CONNECT TO
BUS ROUTES

COST OF
SIDEWALKS

USE UTILITY
EASEMENTS

SPACE IN
UNDERPASSES?

USE OF
EMINENT DOMAIN

OFFICIAL MAP

BIKE RACKS
(TOOLBOX)

TRAILS WITHIN
PARKS

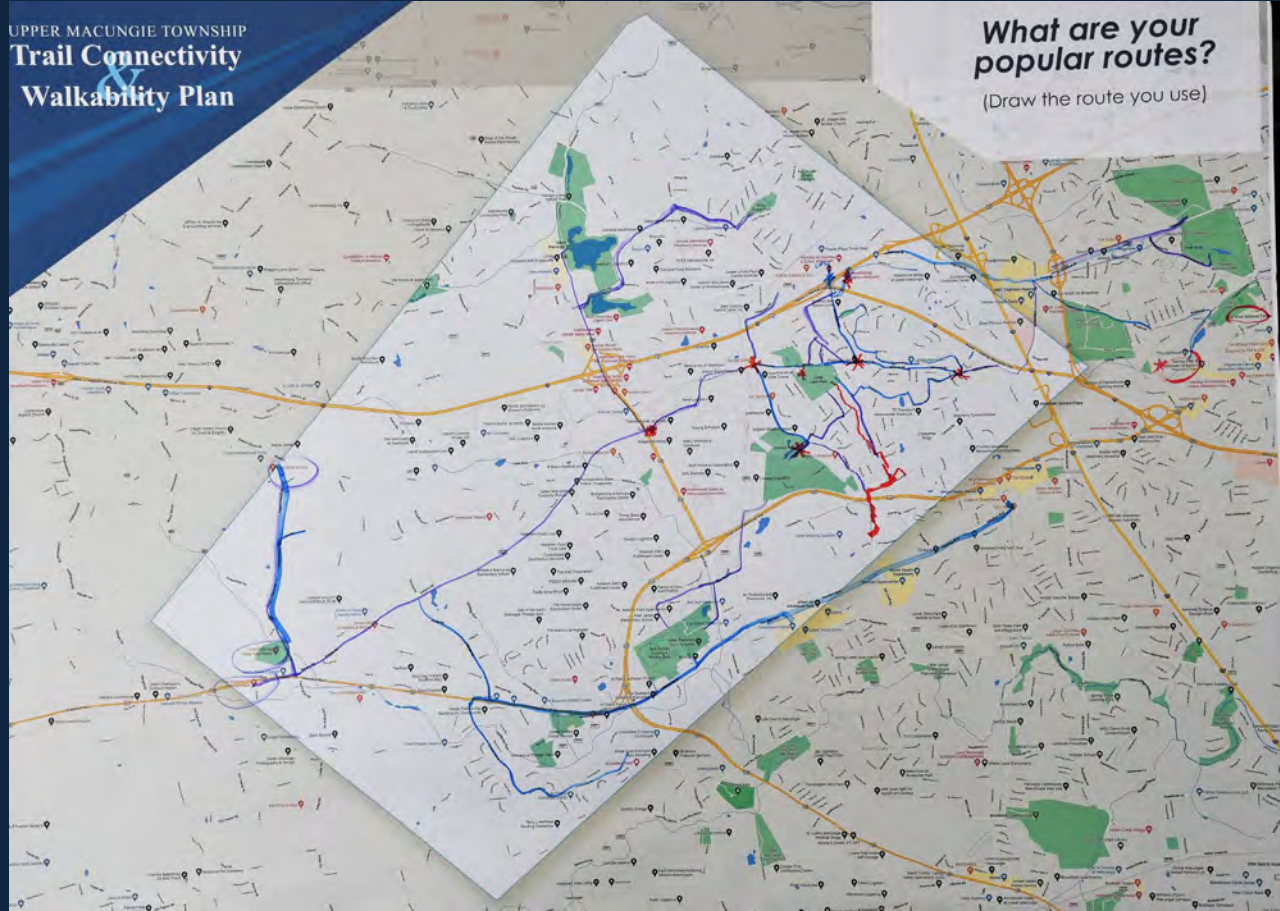
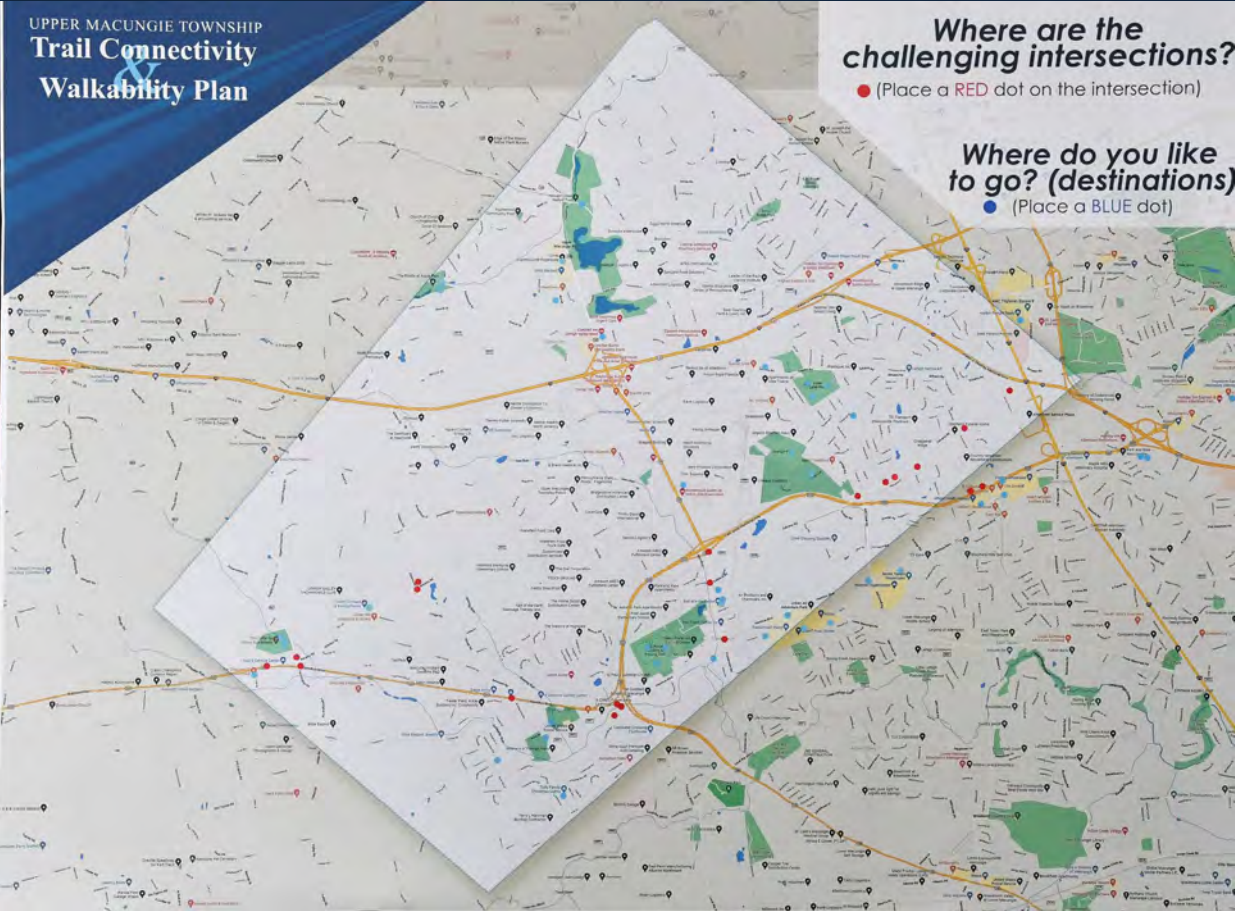
HISTORIC
SITE SEEING
TRAILS

PARTNERS

AIR
PRODUCTS

ULINE

First Thoughts about 'Connections'....





Public Opinion Survey



Public Opinion Survey

WHAT WE ARE HEARING SO FAR.....



- 168 Respondents
- Summary Categories
 1. Demographics
 2. Transportation & Mobility - General
 3. Transportation & Mobility - School/Work
 4. Education
 5. General Issues and Concerns

Public Opinion Survey

WHAT WE ARE HEARING SO FAR.....

1. Demographics:

- "Deep rooted" community; Family oriented

1. Transportation & Mobility: General

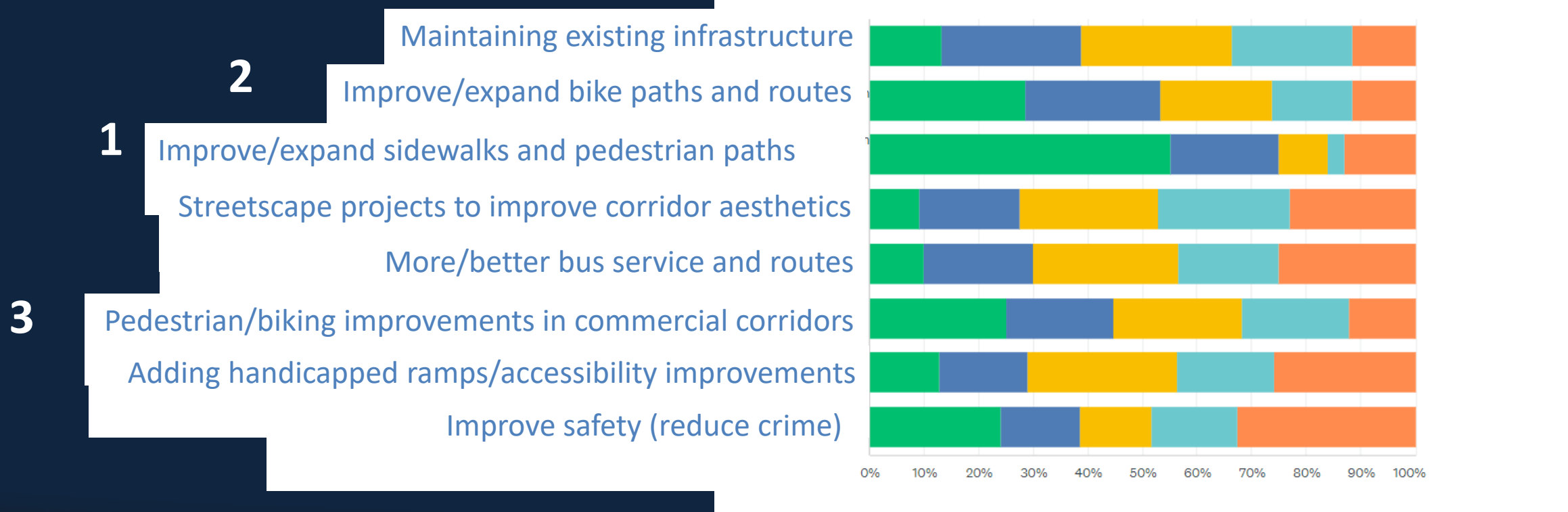
- 47% Walkers/ 66% Bikers: *"I FEEL UNCOMFORTABLE & VERY UNCOMFORTABLE!"*

3. Transportation & Mobility: School & Work

- Walking/biking not used for commuting

Public Opinion Survey

Rank the five (5) most important issues that could create better connectivity in Upper Macungie Township (1=High Priority; 5=Low Priority)



Public Opinion Survey

HERE ARE THE MAJOR CONCERNS...

1. TOO MUCH TRUCK TRAFFIC

**2. INCREASED ATTENTION TO
INCREASING PUBLIC TRANSIT USE**

**3. CONNECTING
NEIGHBORHOODS TO EACH
OTHER AND EXISTING PARKS**

**4. OFF-ROAD TRAILS (LONGER
STRETCHES) FOR BIKING AND WALKING**

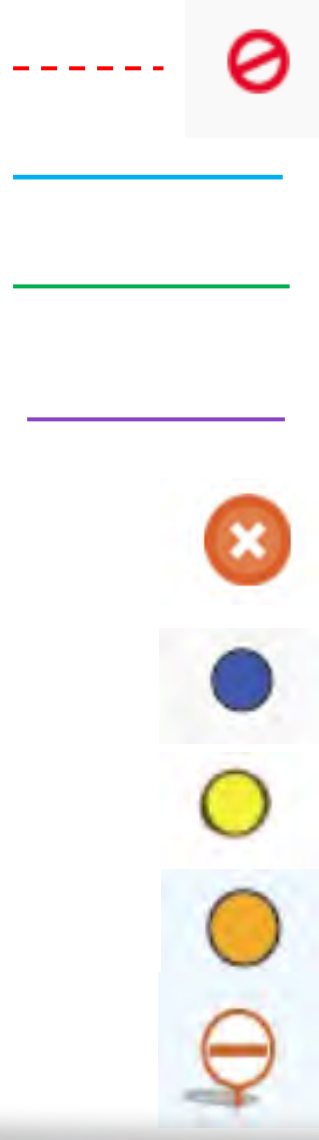


Wiki Mapping



Wiki Mapping

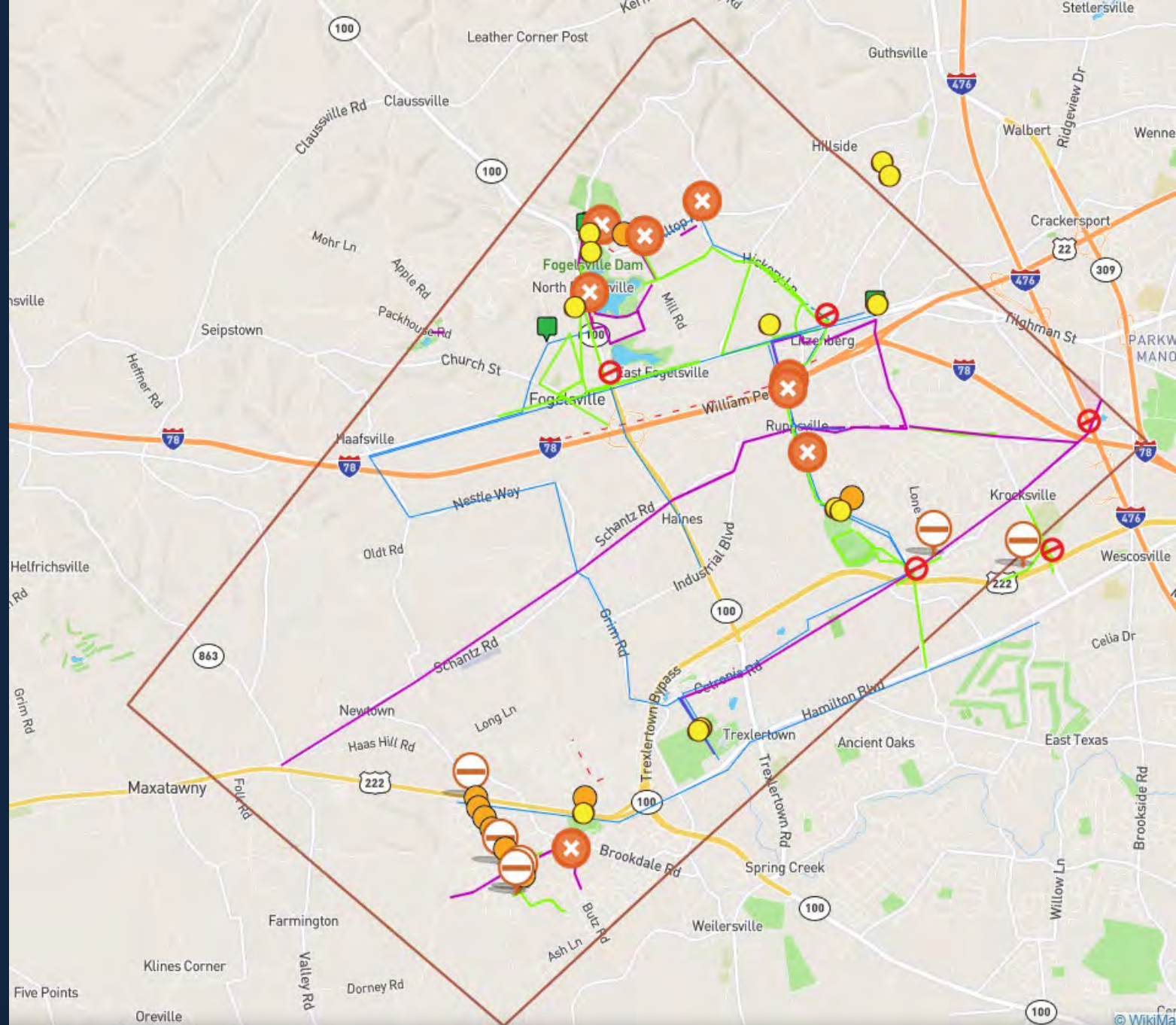
110 SPECIFIC INPUTS TO
THE MAP



- BARRIERS TO CONNECTIVITY (15 total)
- DESIRED BIKE ROUTE (10 Total)
- DESIRED SIDEWALK (26 Total)
- DESIRED TRAIL (15 Total)
- CHALLENGING AREAS (11 Total)
- CULTURAL/HISTORIC LOCATION (1 Total)
- DESIRED DESTINATION (16 Total)
- DESIRED LOCATION FOR CROSSWALK (10 Total)
- SIDEWALK GAP LOCATION (6 Total)

Wiki Mapping

- BARRIERS TO CONNECTIVITY (15 total)
- DESIRED BIKE ROUTE (10 Total)
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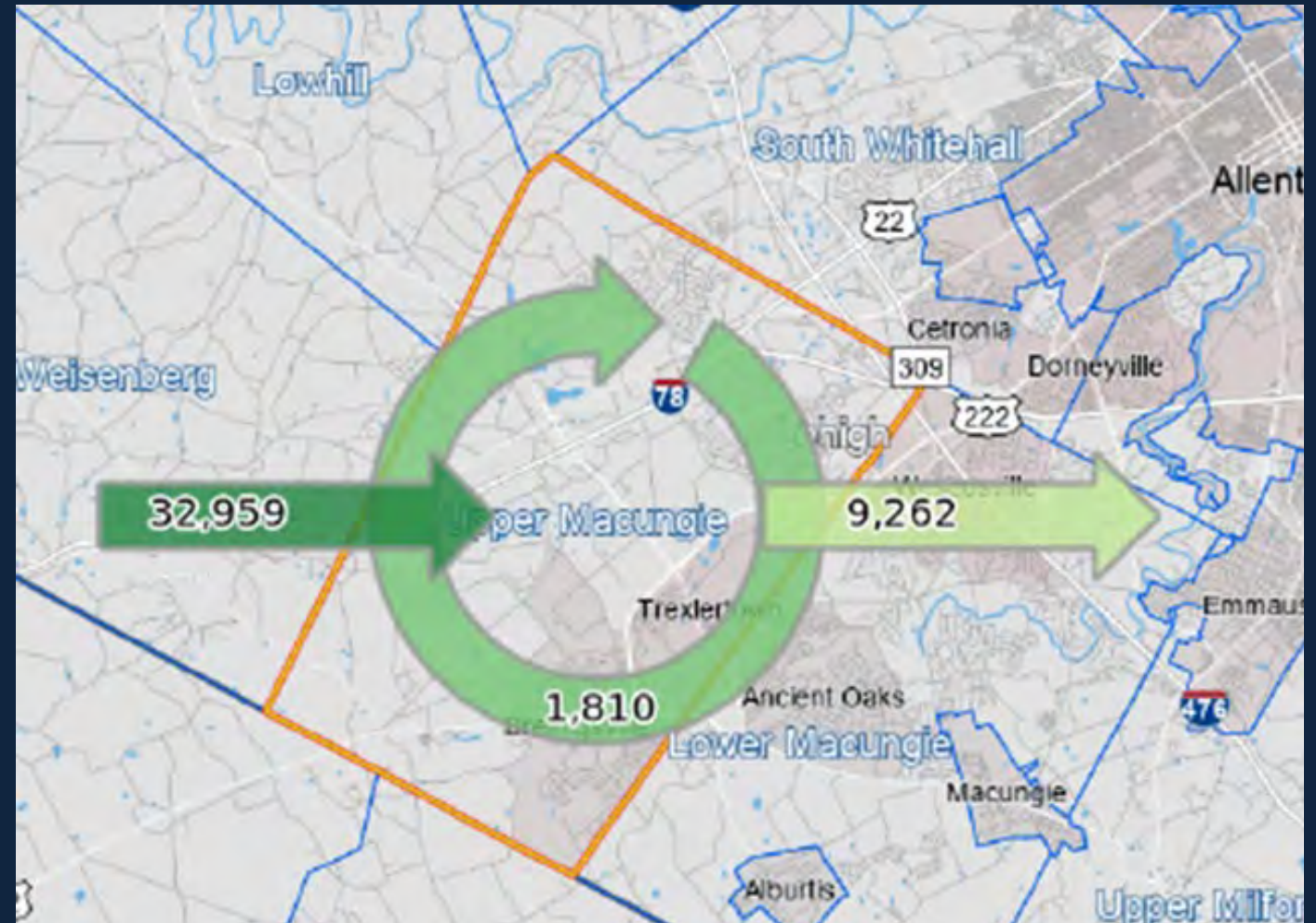


UMT: 'Inflow' / 'Outflow' of Primary Jobs

Total Employed in Upper Macungie: **34,769**

Total Number traveling into Upper Macungie: **32,959**

Upper Macungie Residents Employed Outside of Upper Macungie: **9,262**





Site Reconnaissance



Lone Lane Park



A narrow sidewalk?



Air Products



Grange Road Park



Ricky Park



Lone Lane Park



Township Park



On Road Walking



Sidewalk Gap

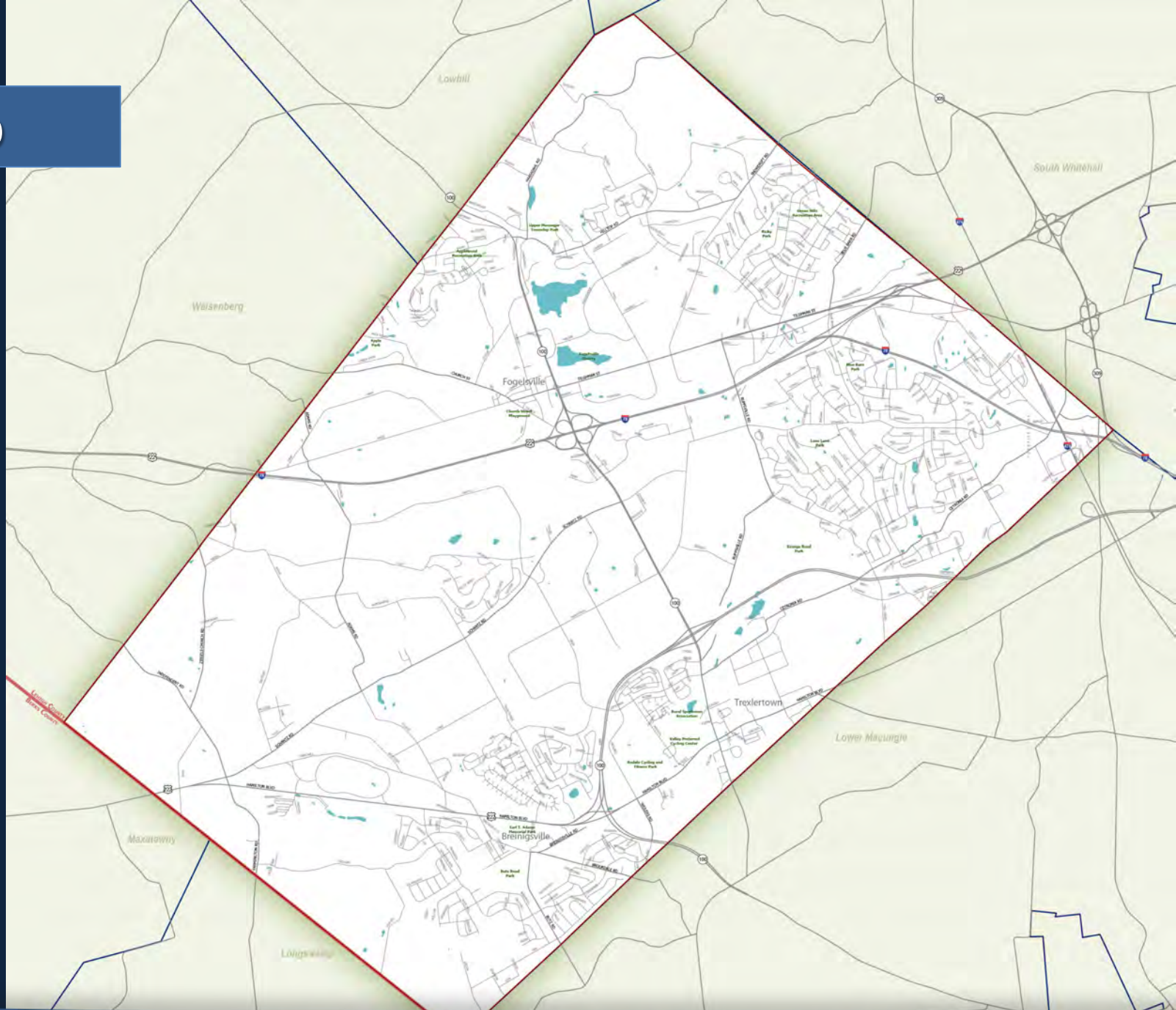




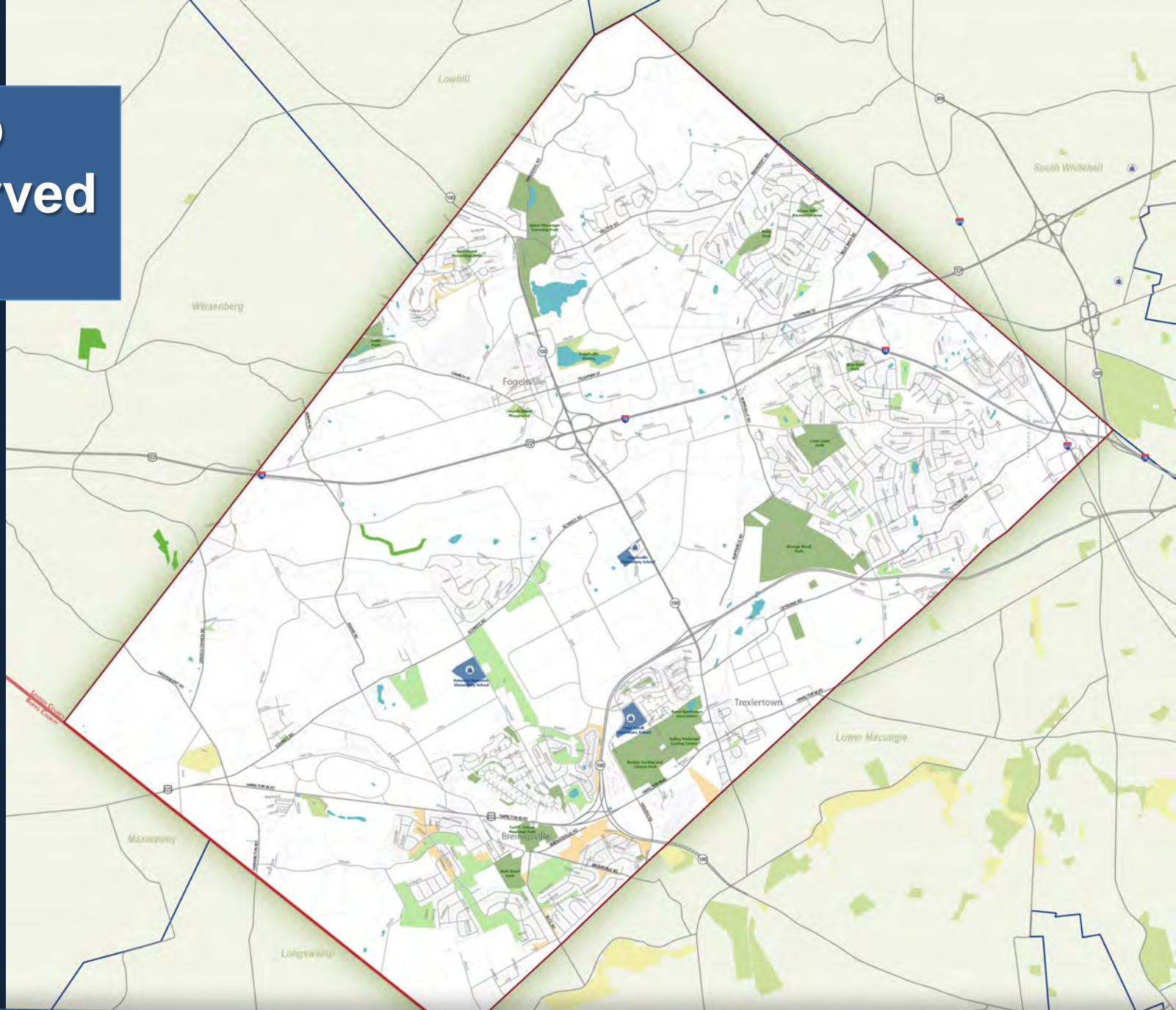
Project Mapping



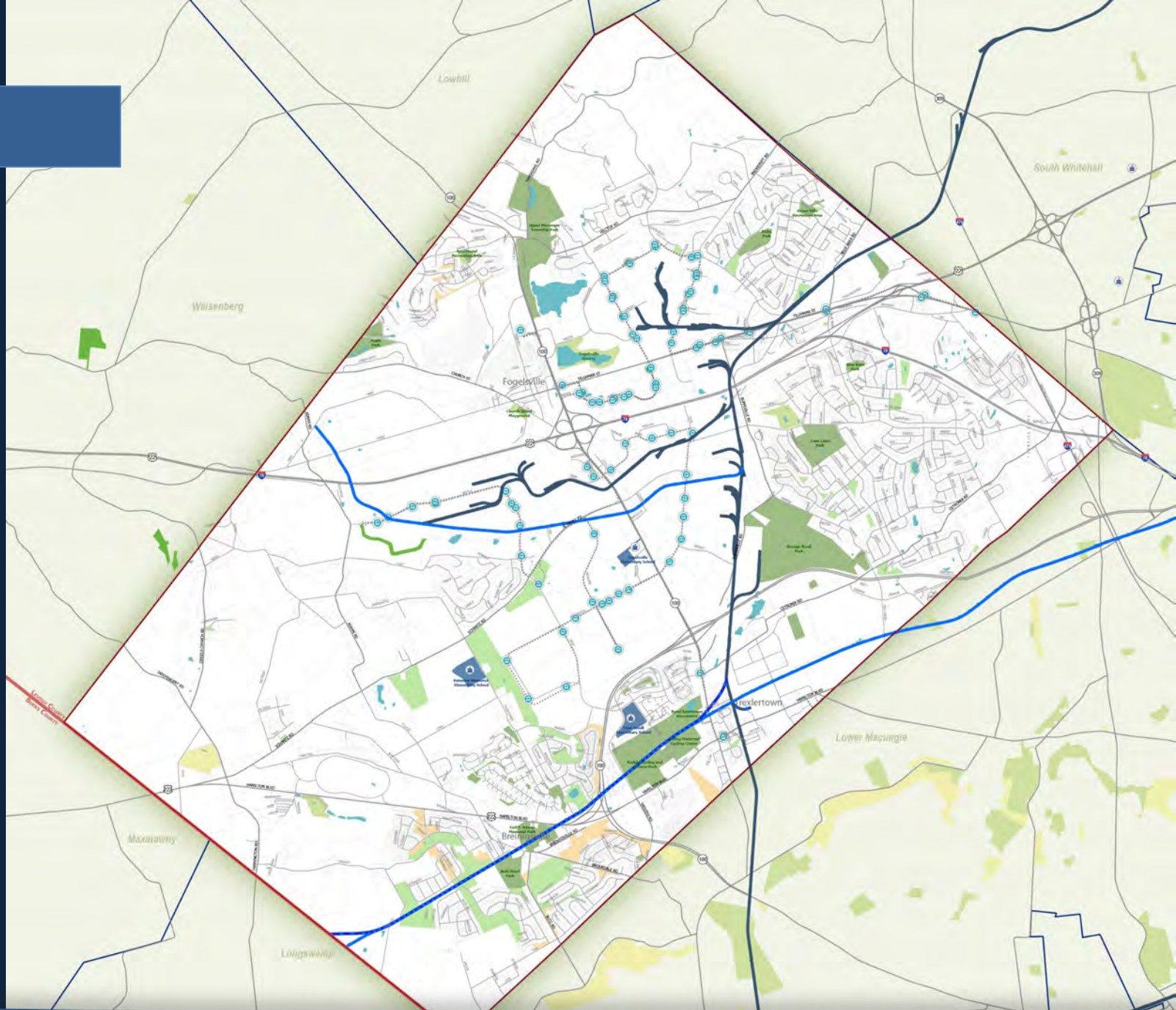
Upper Macungie Township



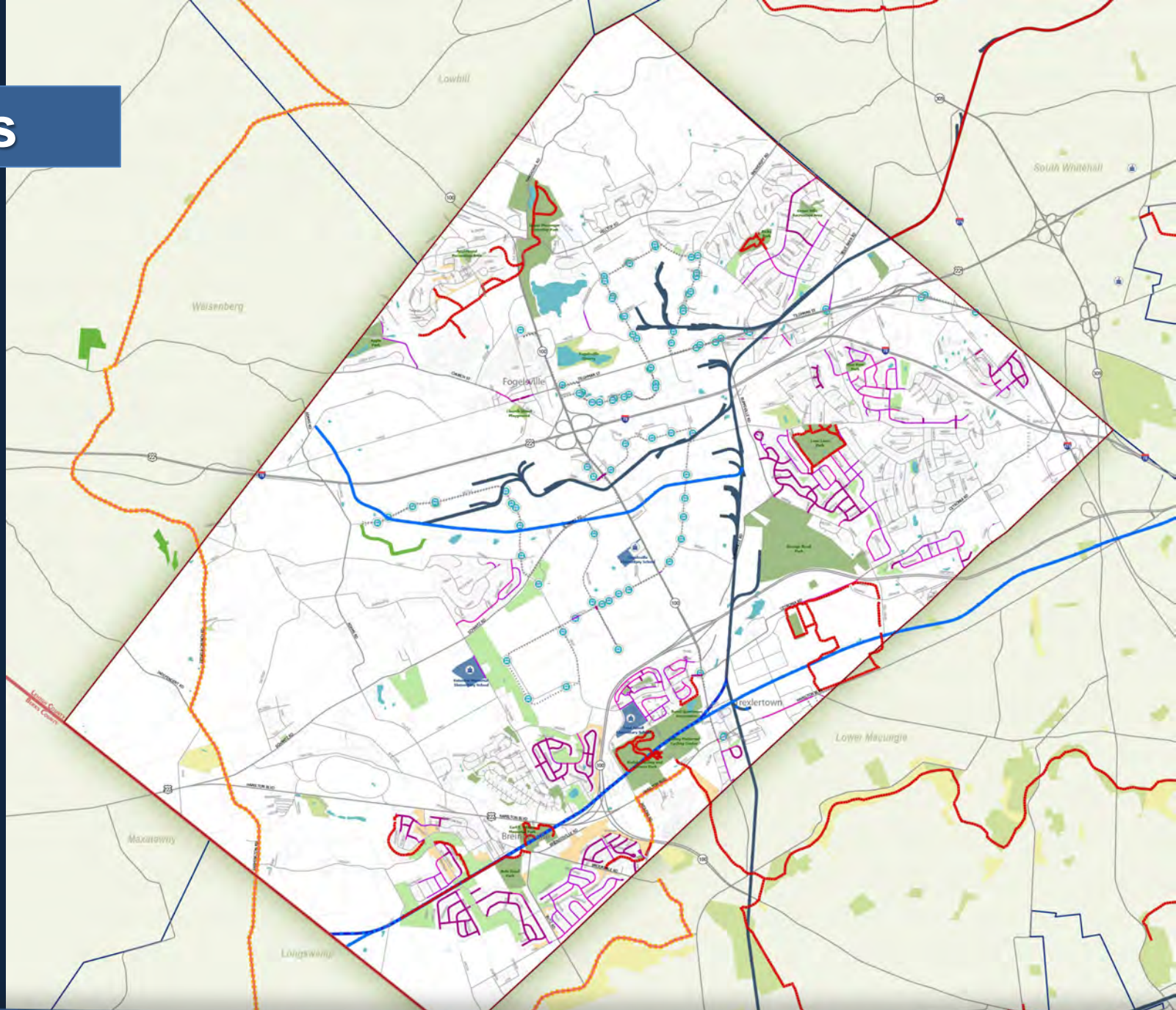
Upper Macungie Township Parks, Schools and Preserved Lands



Bus Routes and Stops



Existing Sidewalks & Trails



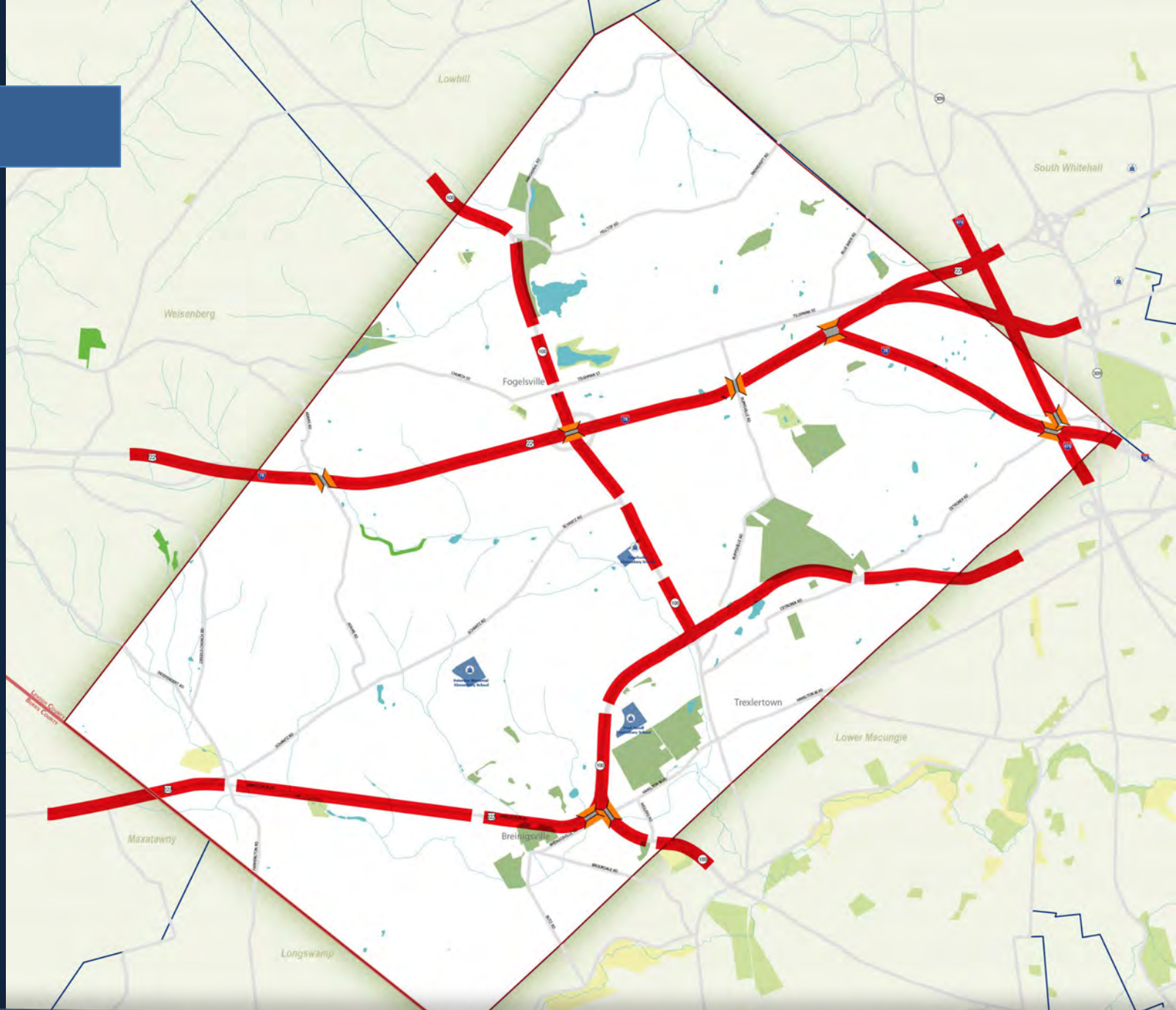


Site Analysis

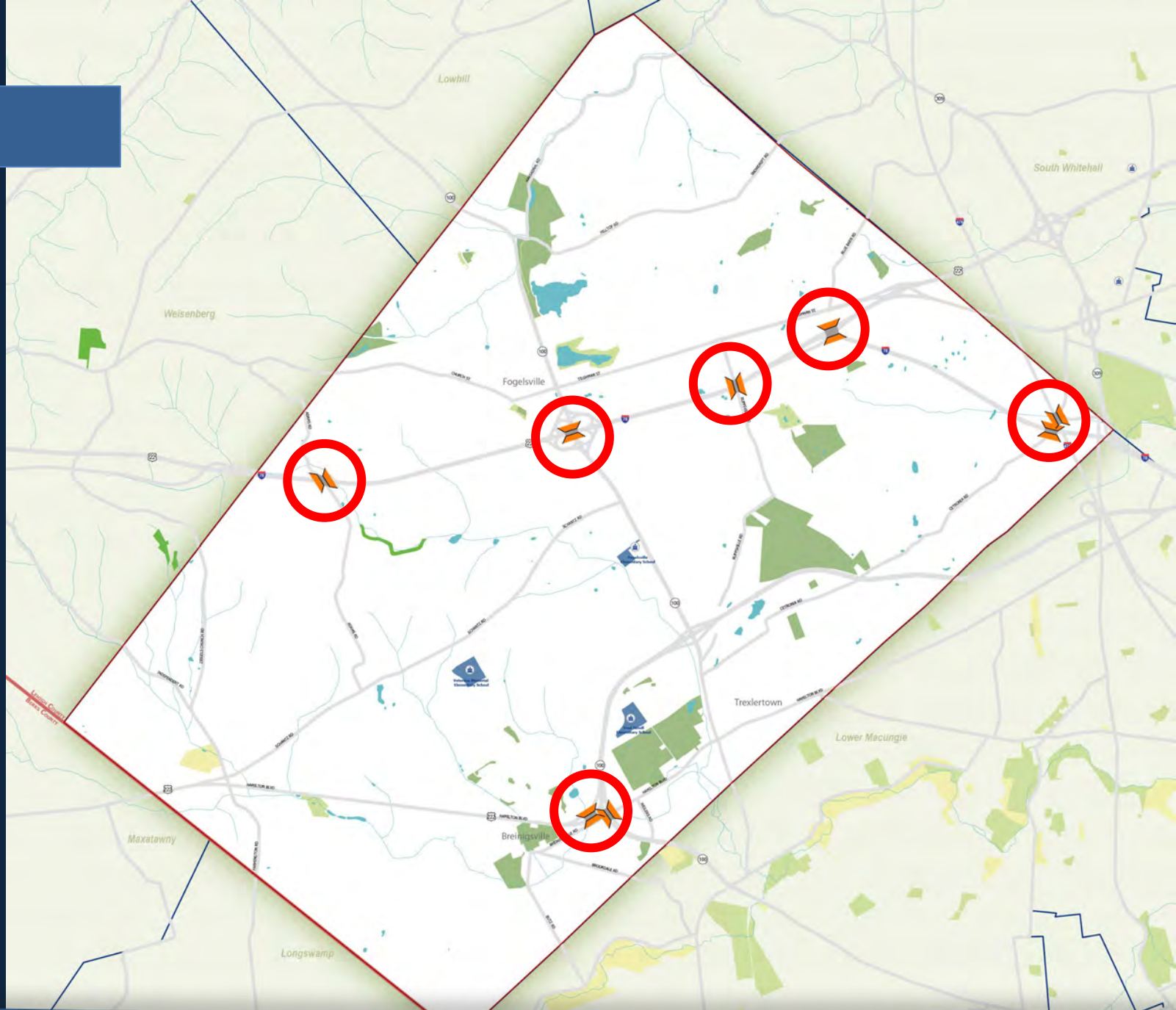


Barriers

- Interstate 78
- Highway 222
- 476
- SR 100
- SR 309

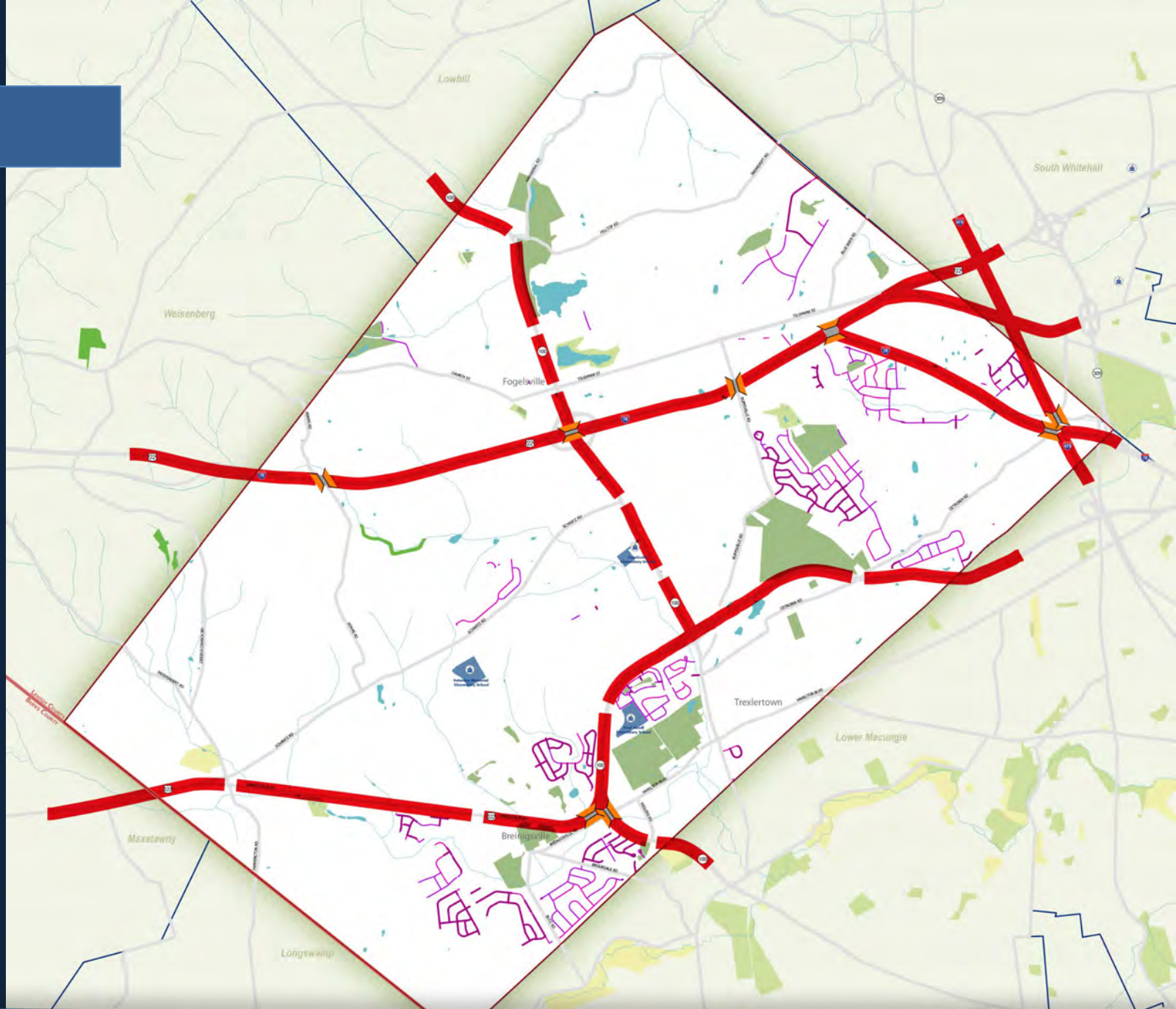


Bridges and Underpasses



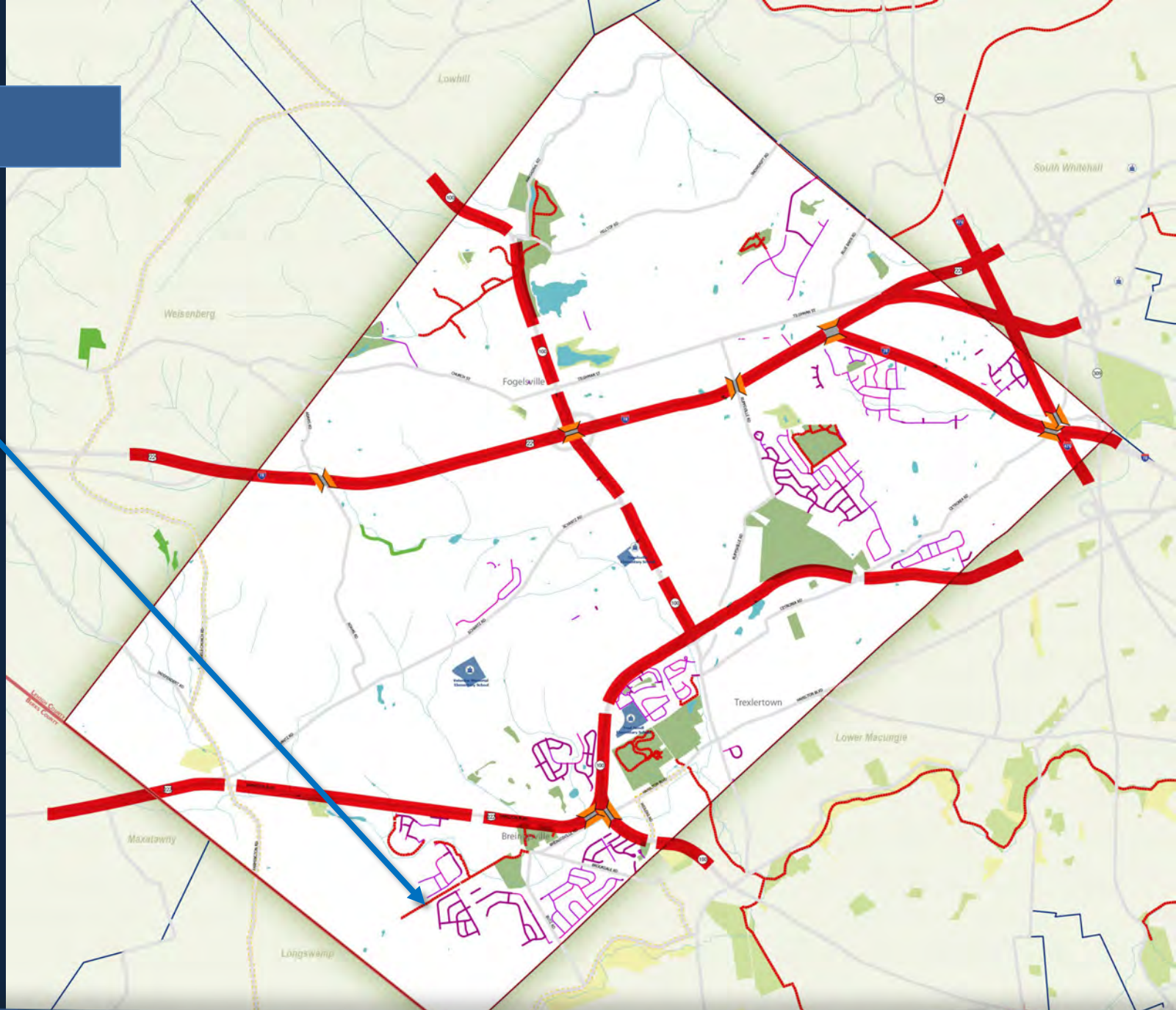
Sidewalks

- Both sides of the Road
- One side of the Road



Existing Trails

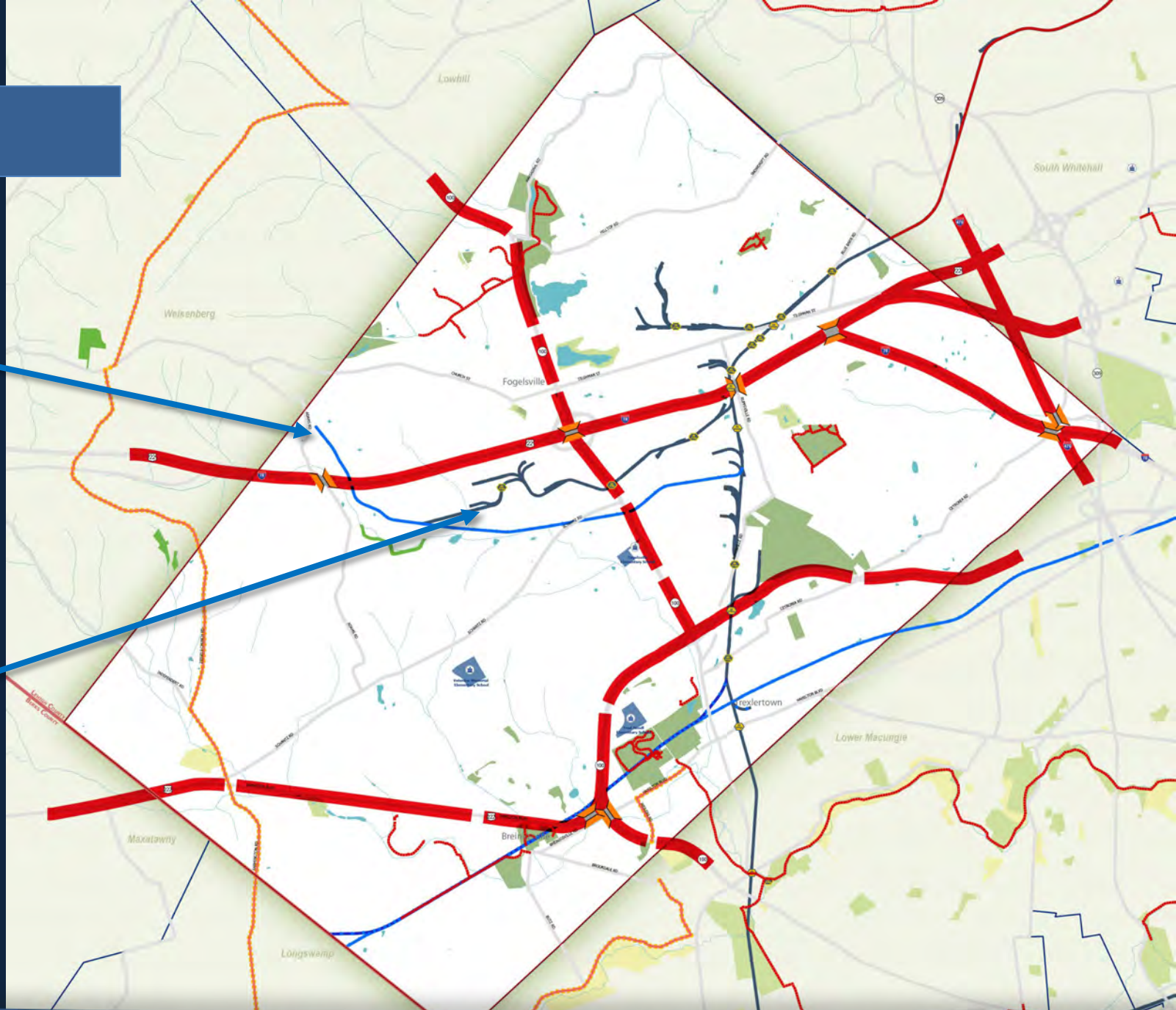
- Off Road Trail



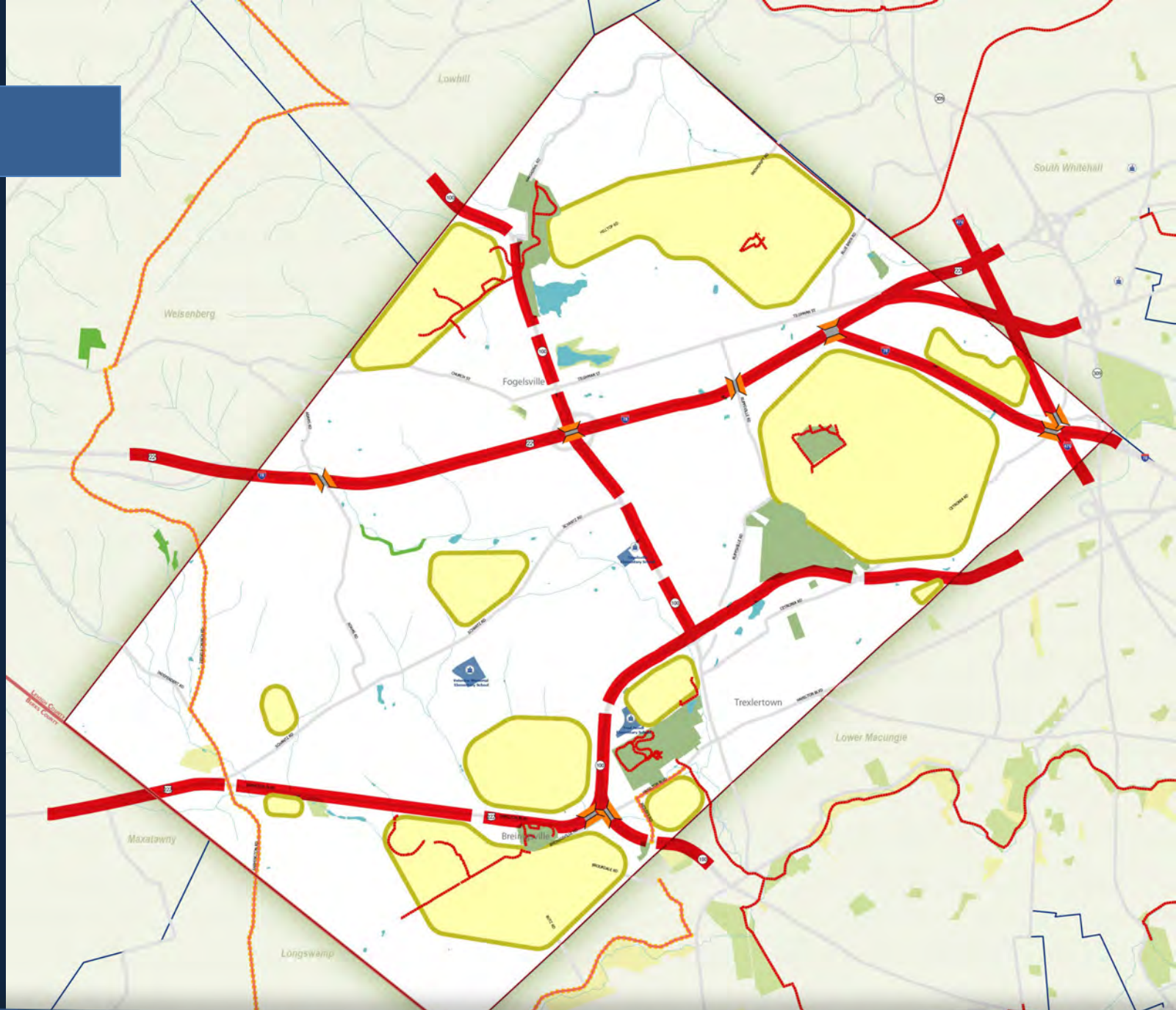
Railroads

- Abandoned

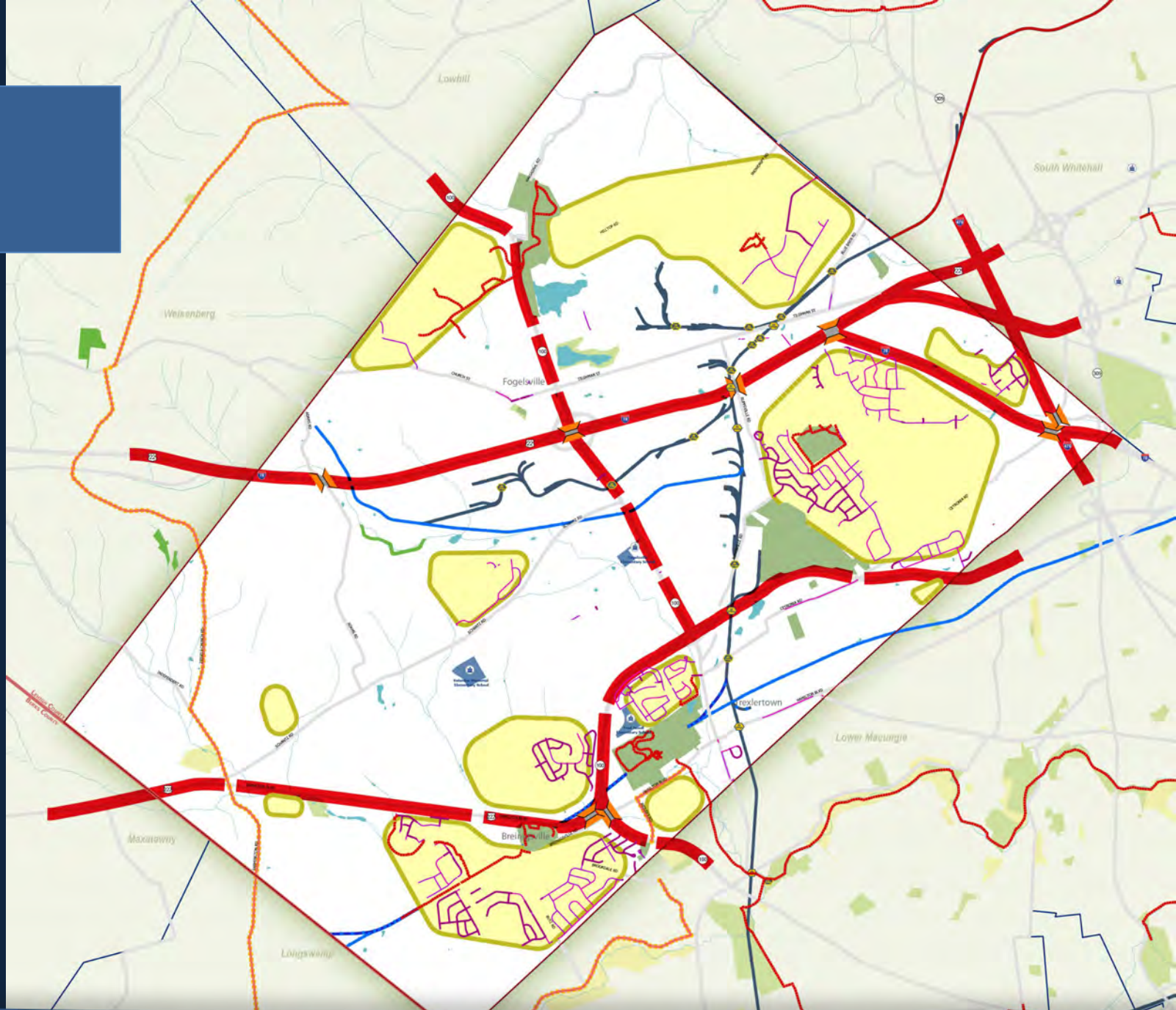
- Active



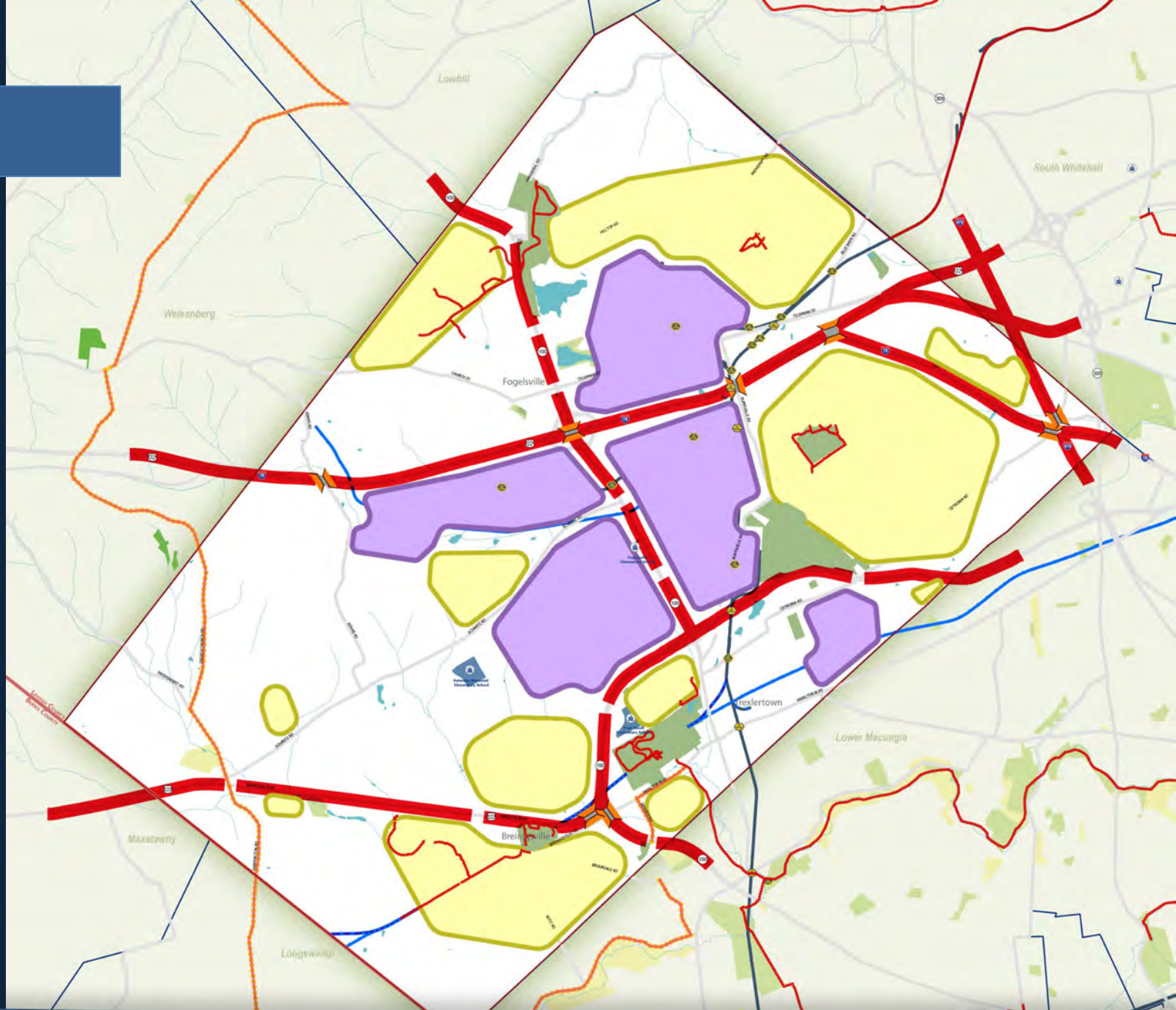
Residential Areas



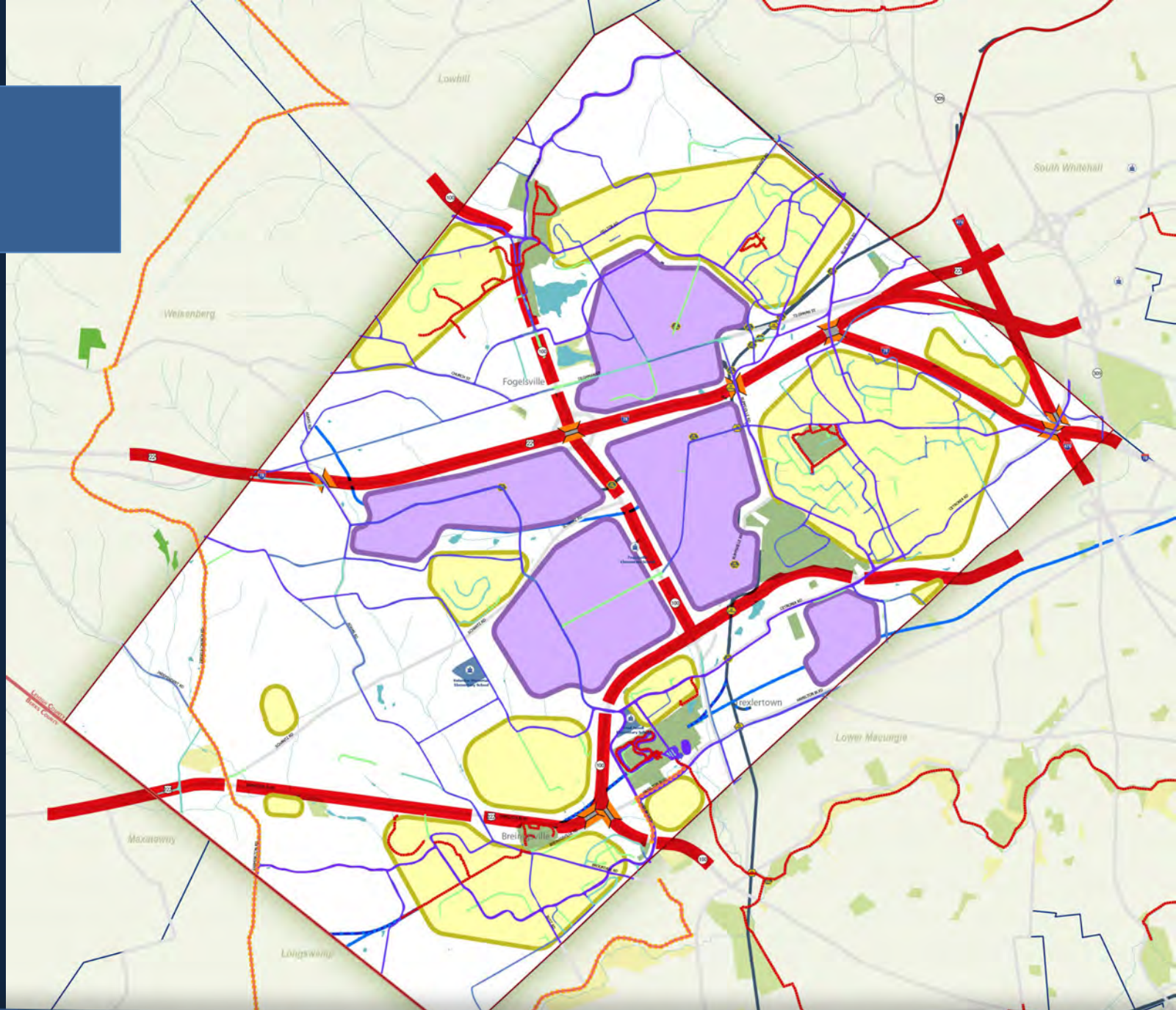
Residential Areas w/ Existing Sidewalks



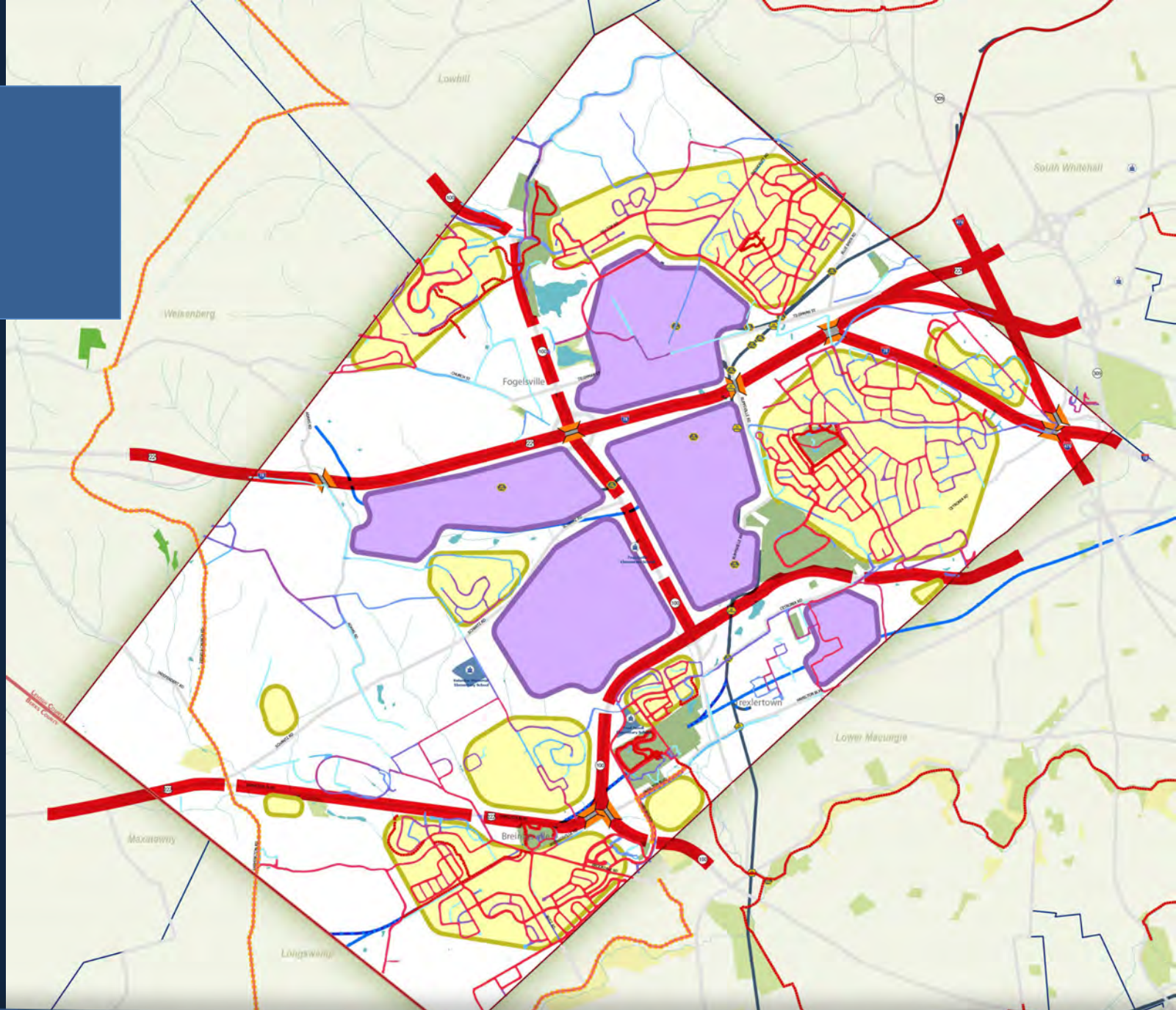
Industrial Areas



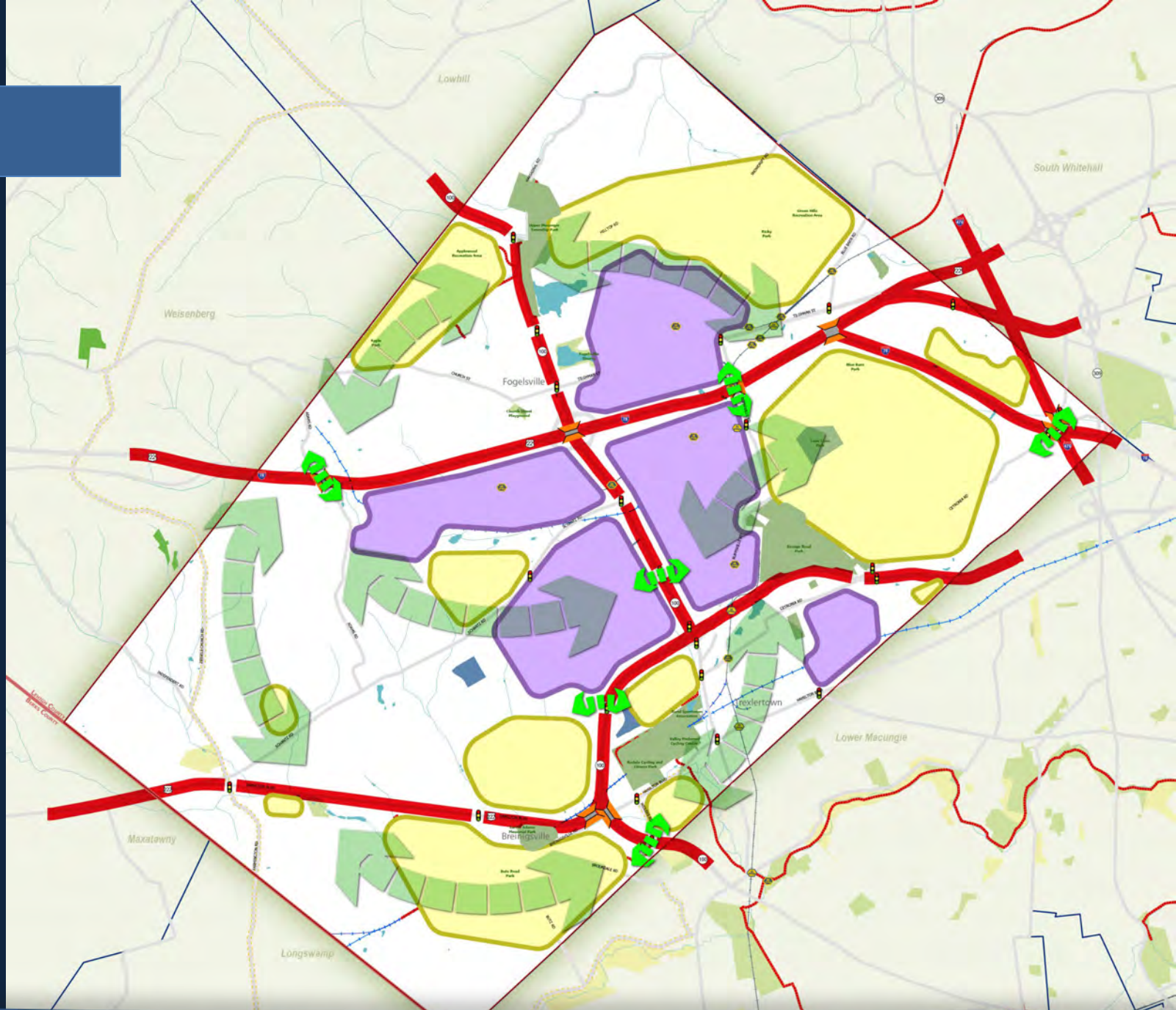
Residential Areas w/ STRAVA Ride Routes



Industrial Areas w/ STRAVA Ride & Run Routes



Connections



Improvement Toolbox

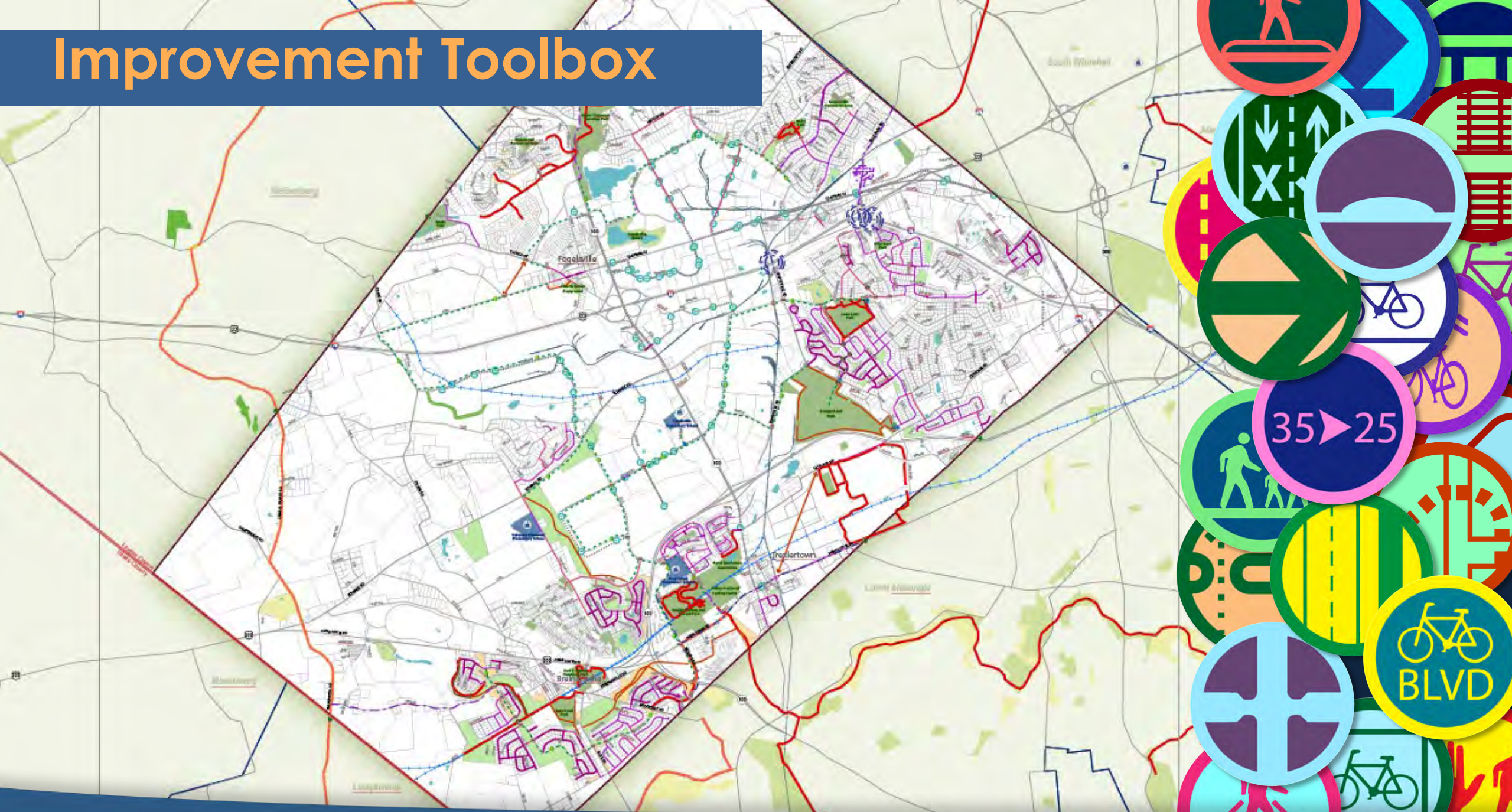


Improvement Toolbox

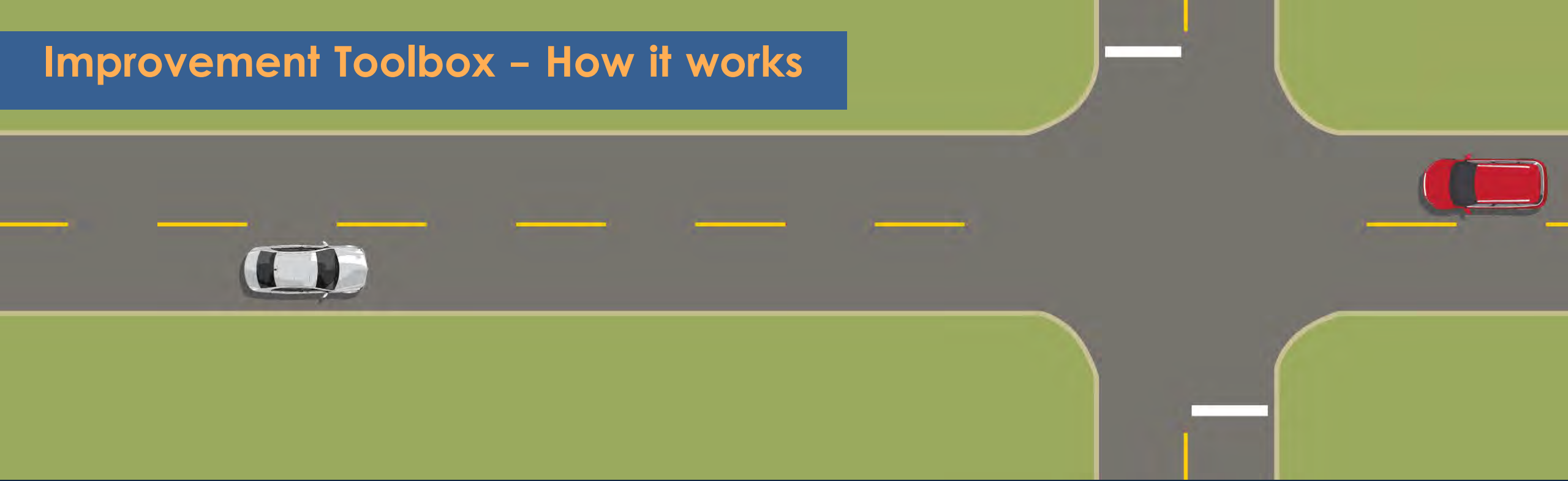
-  Sidewalk
-  Crosswalk
-  Decorative Crosswalk
-  Special Crossing
-  Speed Table
-  Speed Cushion
-  Rapid Flashing Beacon
-  Hand Man
-  Pedestrian Refuge Island
-  Median Through Intersection
-  Multi-Use Trail
-  Side Path
-  Painted Shoulder
-  Sharrow
-  Bicycle Lane
-  Bicycle Boulevard
-  Bicycle Box
-  Bicycle Parking
-  Bike Share Location
-  Bump Out / Curb Extension
-  Speed Limit Reduction
-  School Walking Route



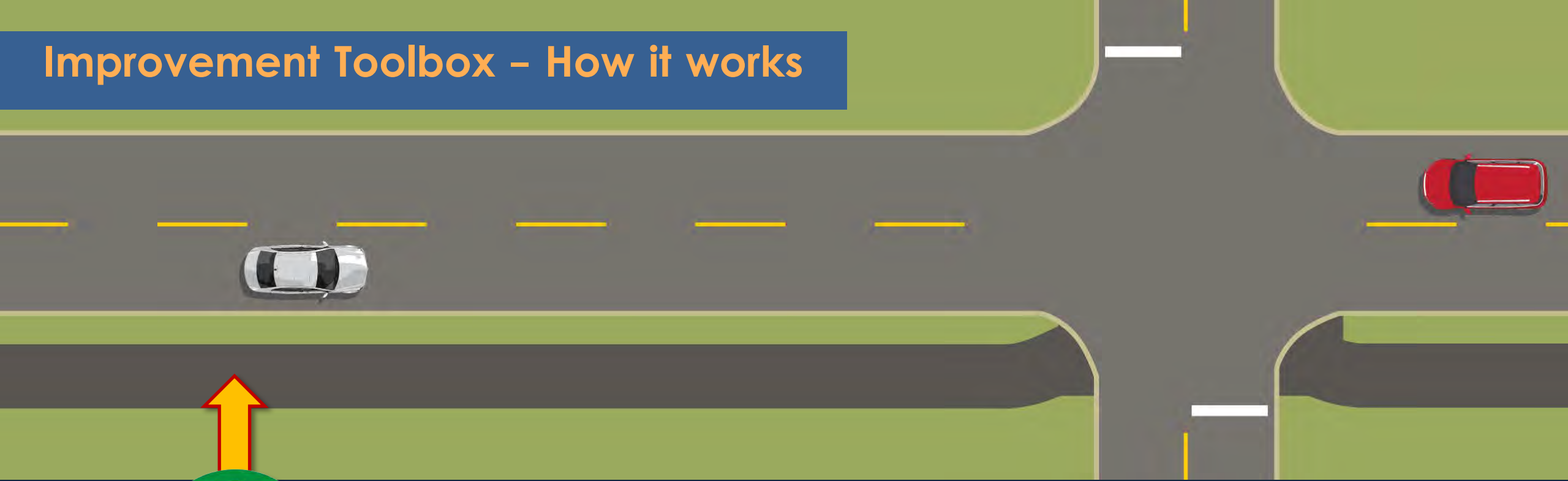
Improvement Toolbox



Improvement Toolbox – How it works



Improvement Toolbox – How it works



Side Path

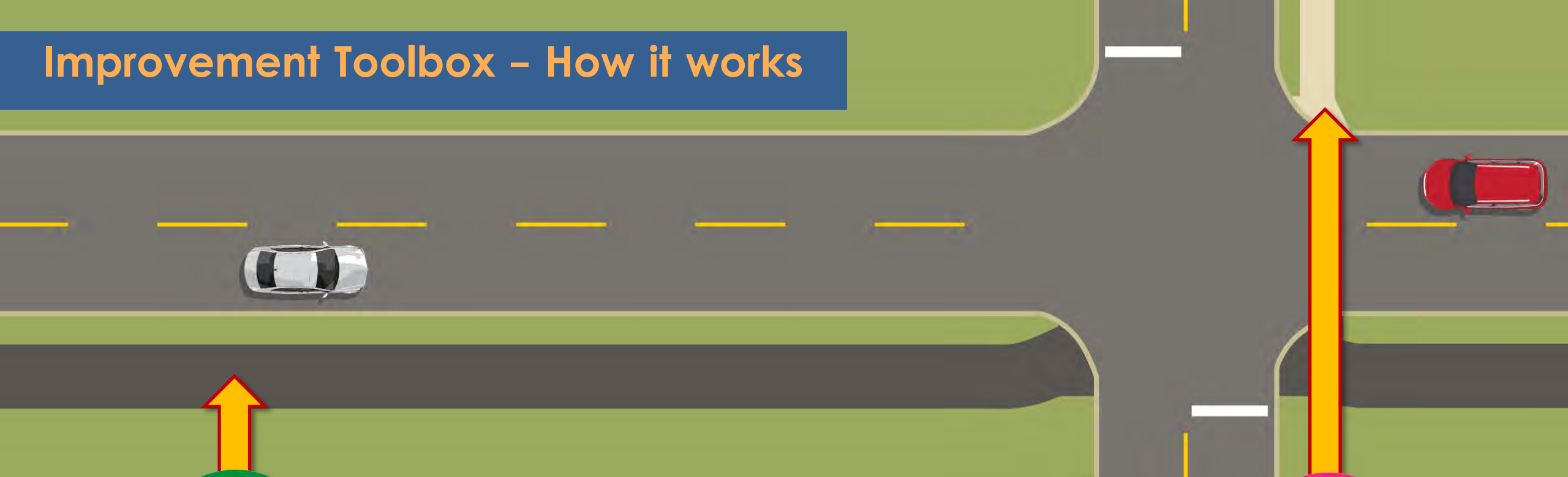
Improvement Toolbox – How it works



Side Path



Sidewalk



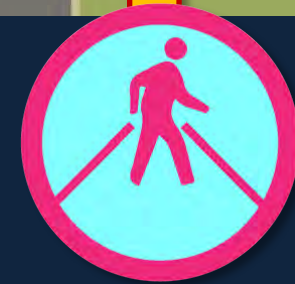
Improvement Toolbox – How it works



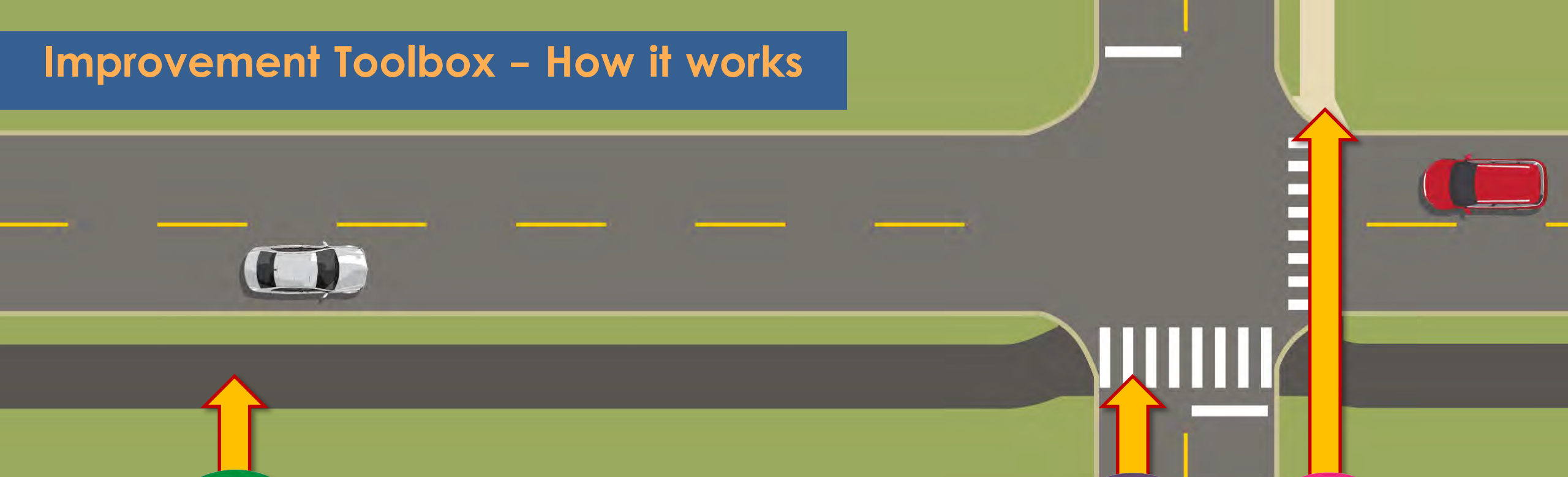
Side Path



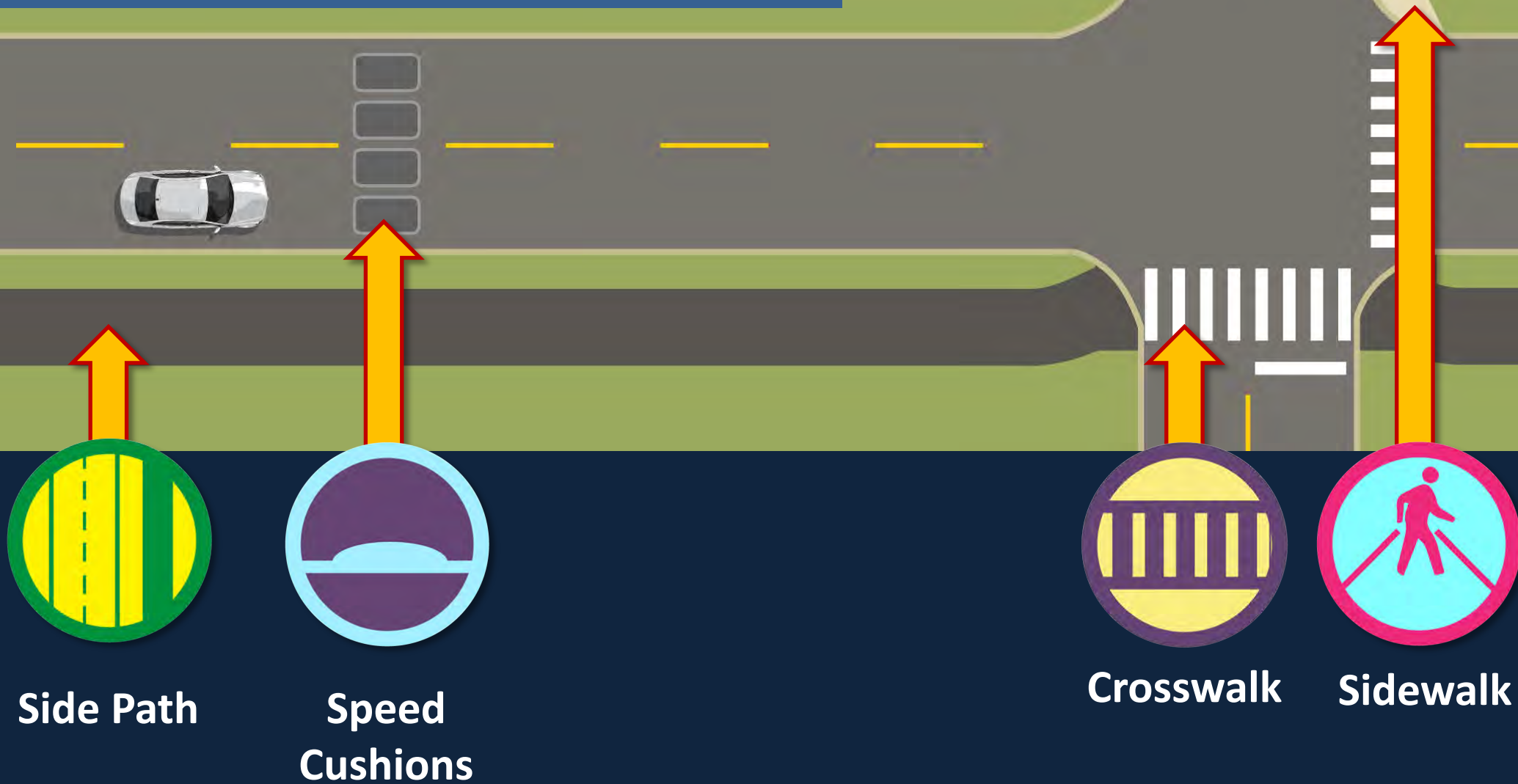
Crosswalk



Sidewalk



Improvement Toolbox – How it works





Crosswalk

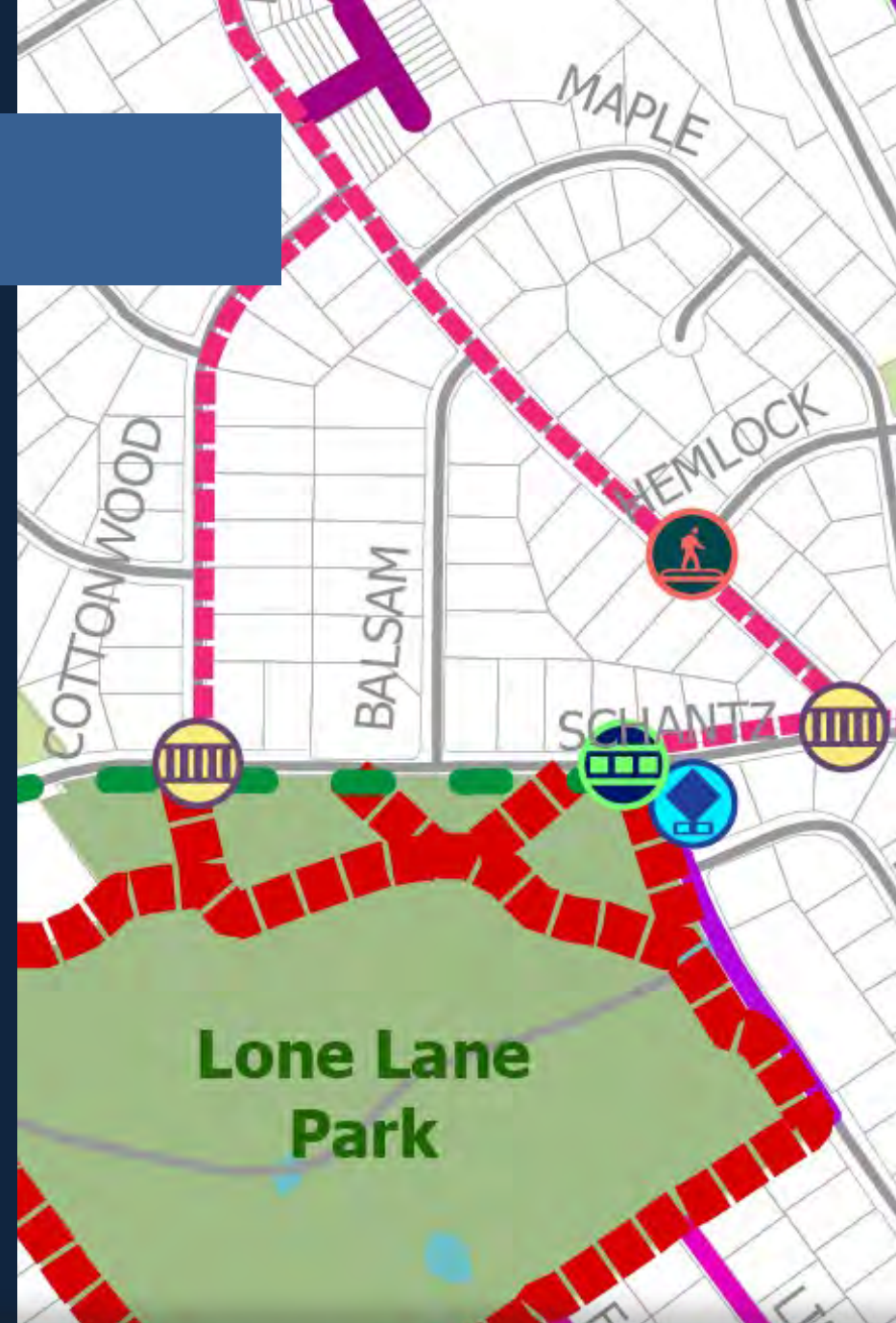
Continental Style



Decorative Style



Existing Crosswalk:
Schantz & Lone Lane Park



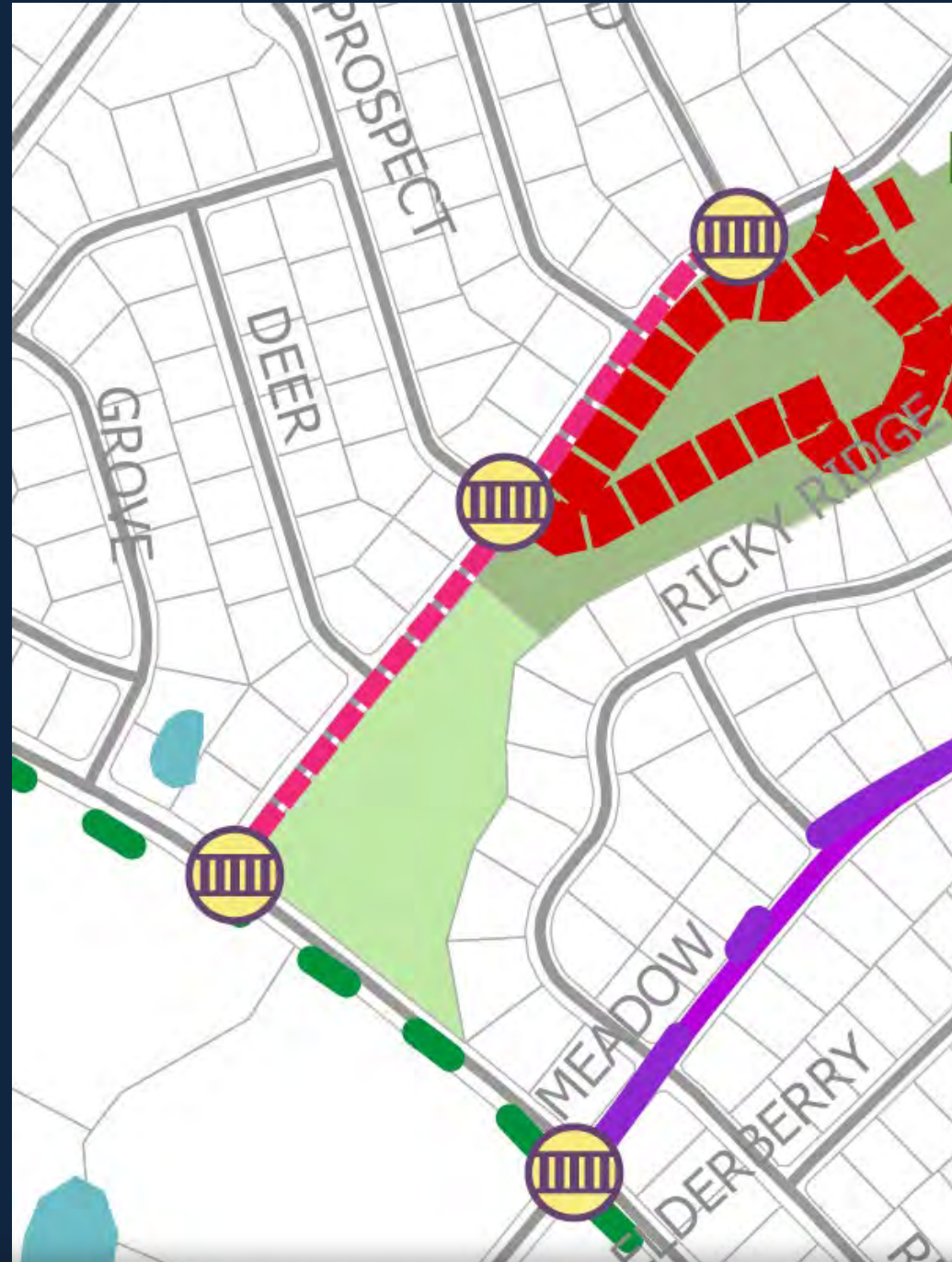


Sidewalk

Residential Road to Schaefers Run Road (Sidewalk Gap)



Pedestrians on Lone Lane





Bike Lane

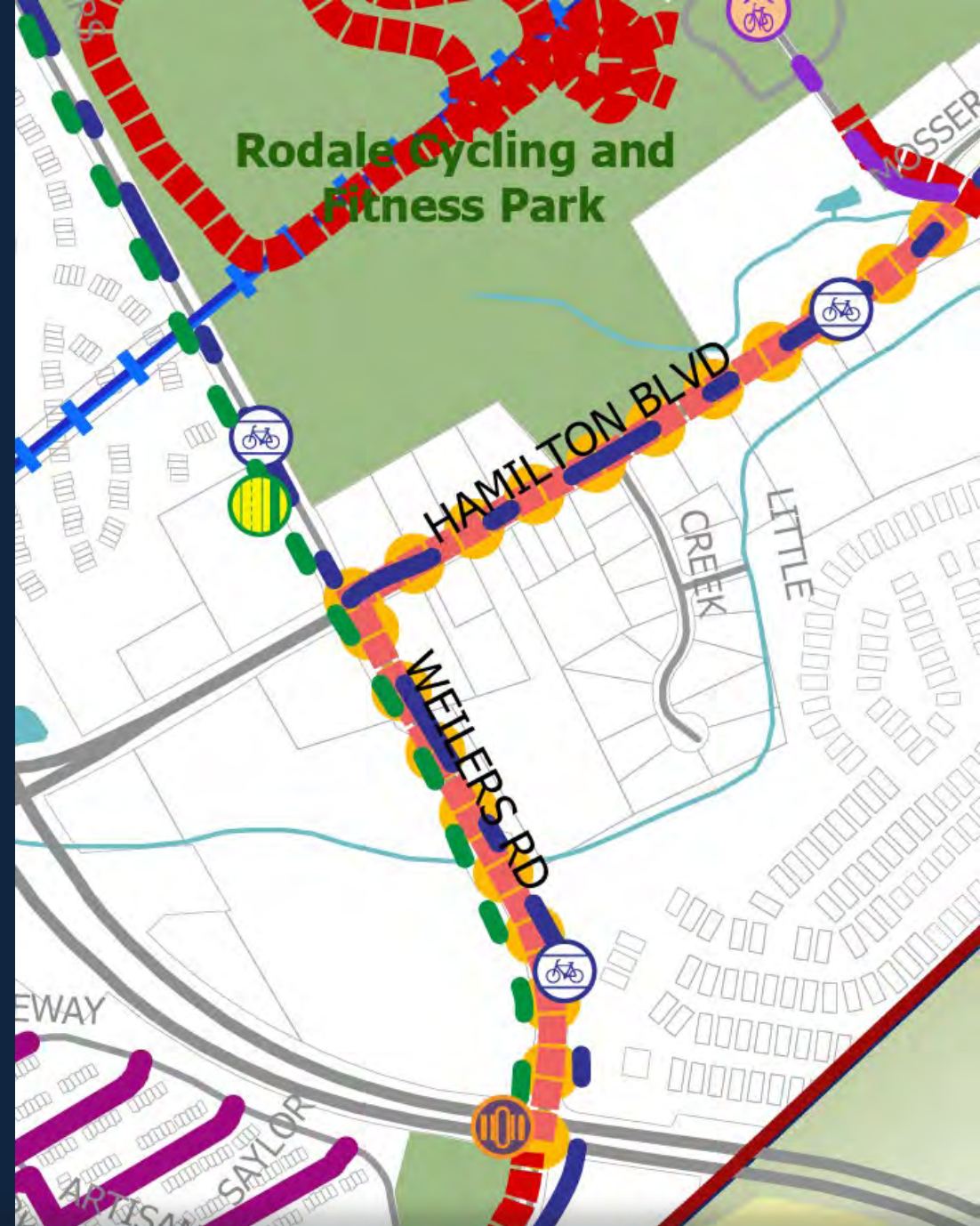
Example: 5' Bike Lane

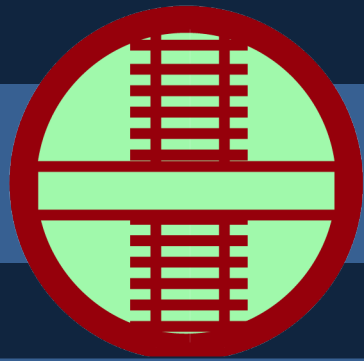


Existing Bike Lane on Cetronia Rd



Example: Buffered Bike Lane





Special Crossing

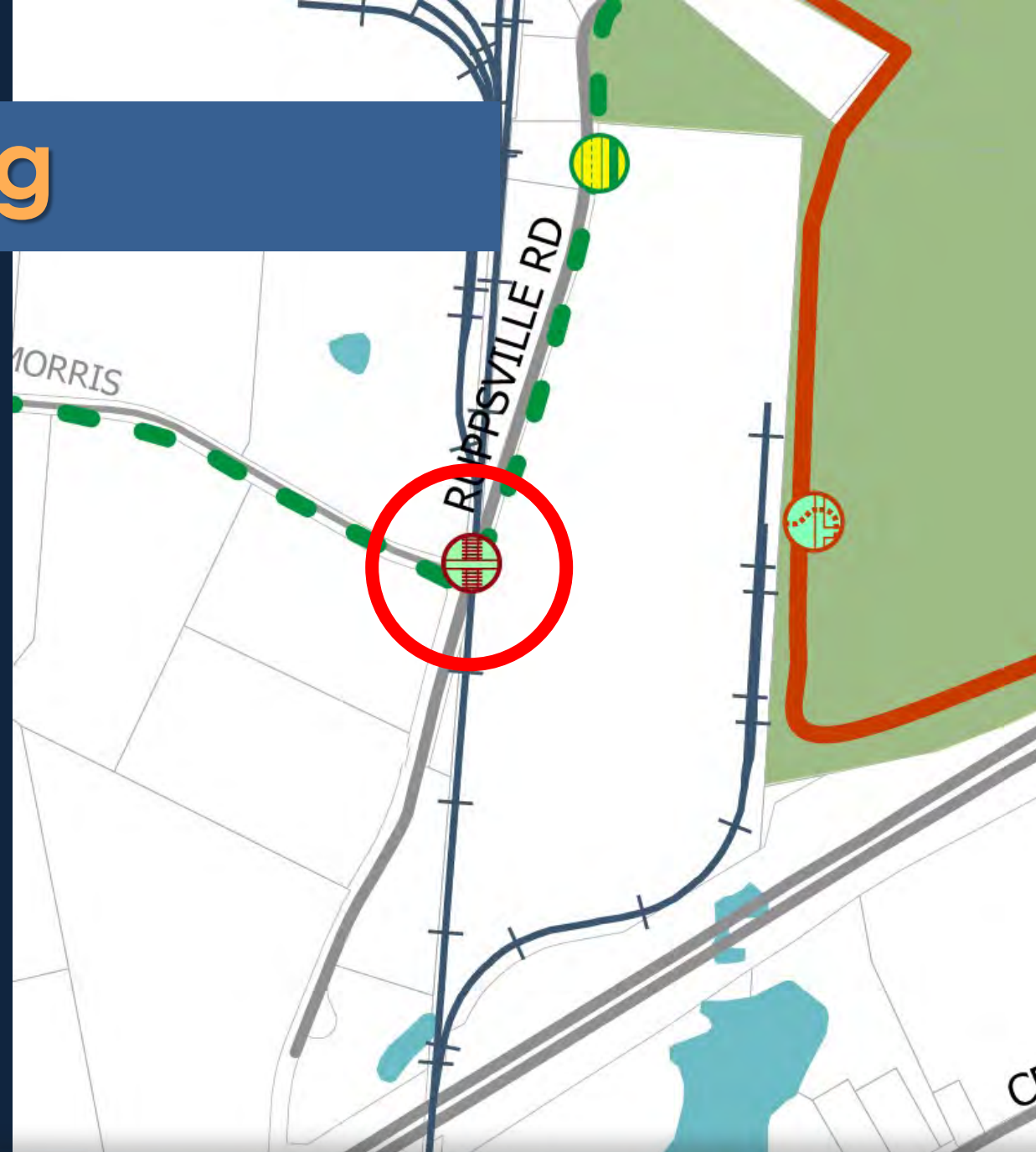
Example: Railroad Crossing



Example: Railroad Crossing



Ruppsville Rd & Morris Road



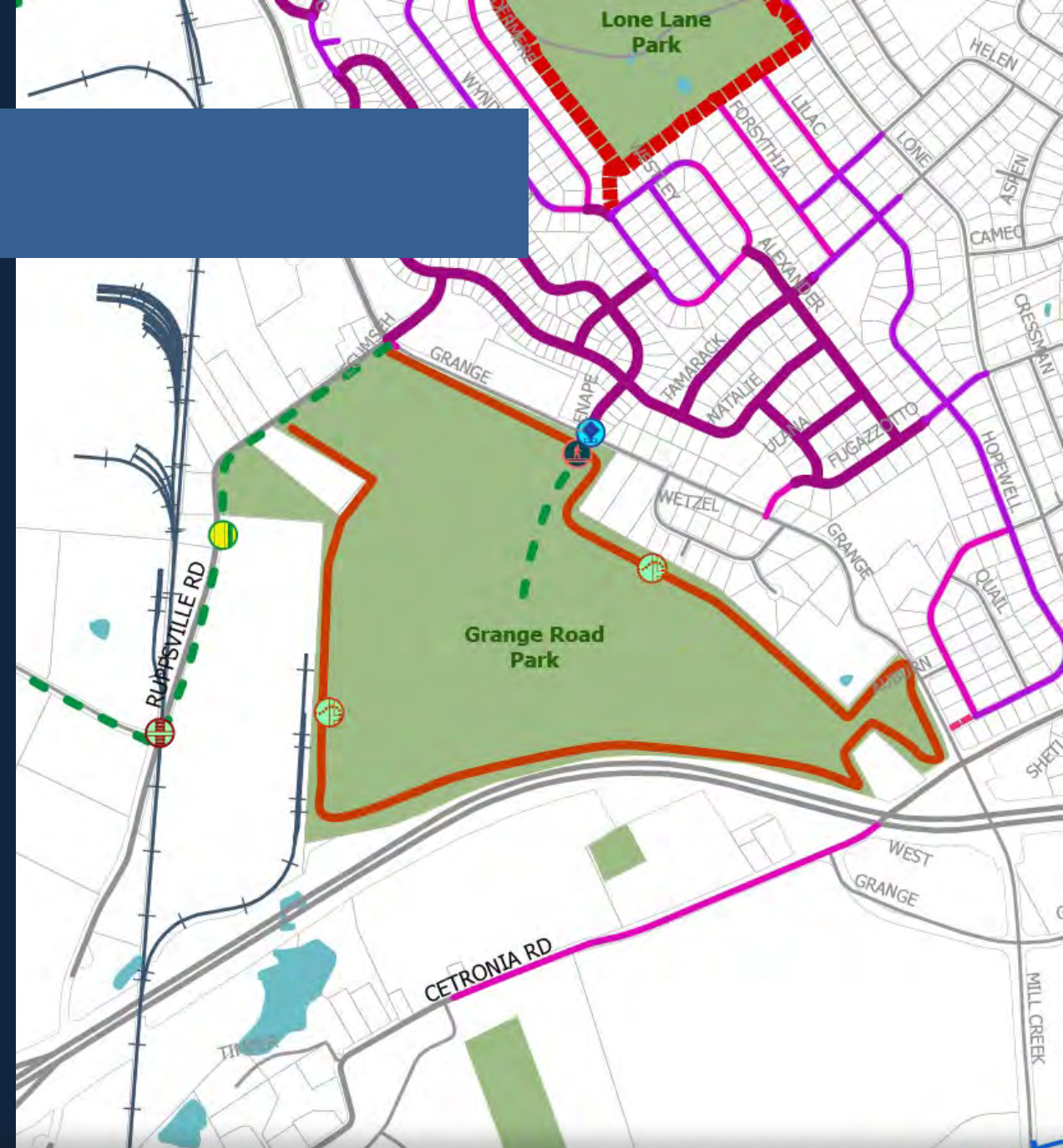


Multi-Use Trail

Example: Multi-Use Trail

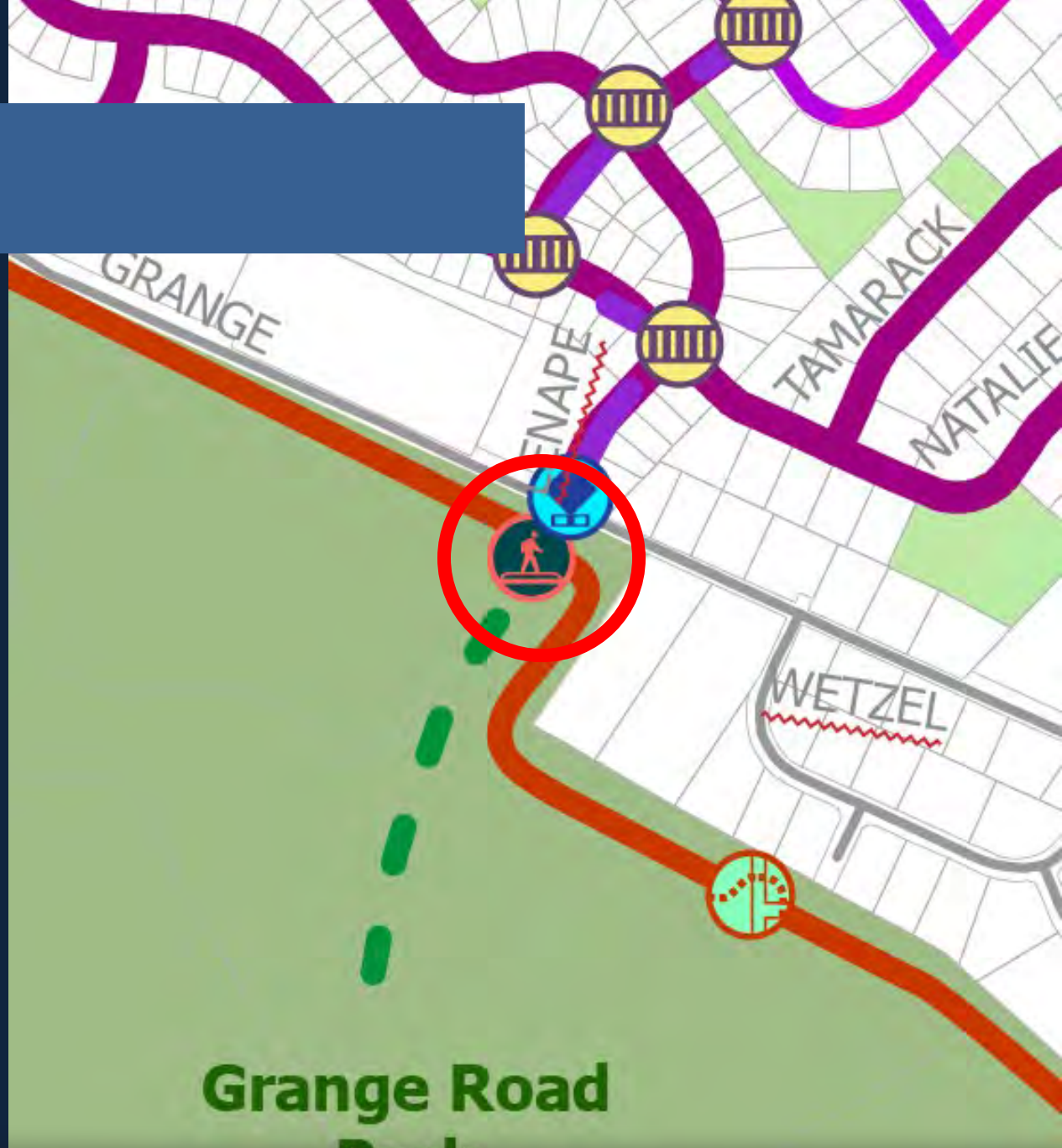


Example: Multi-Use Trail





Speed Table





Speed Cushion



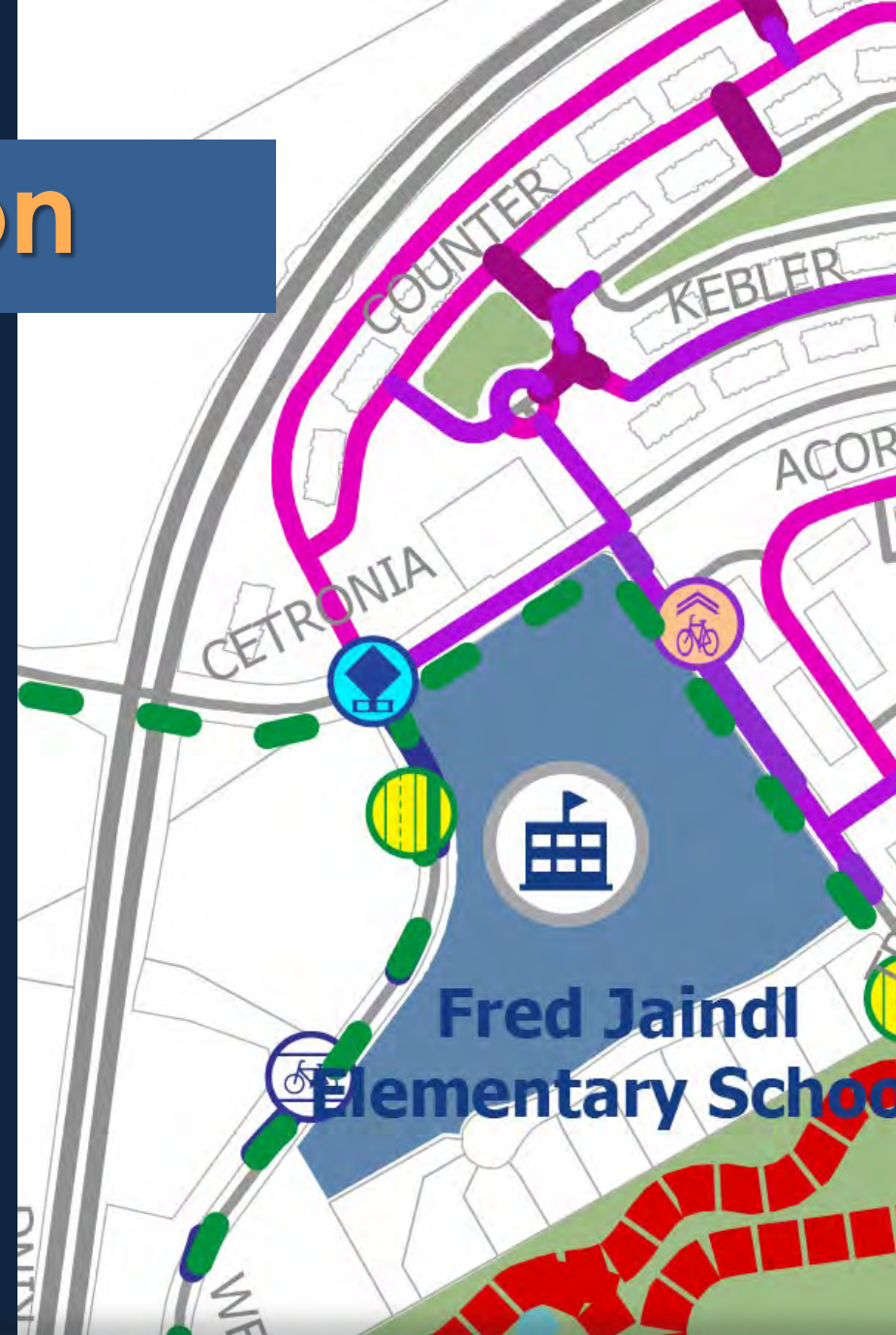


Rapid Flashing Beacon

Example: RFB



Existing: Penn Dr (older style)



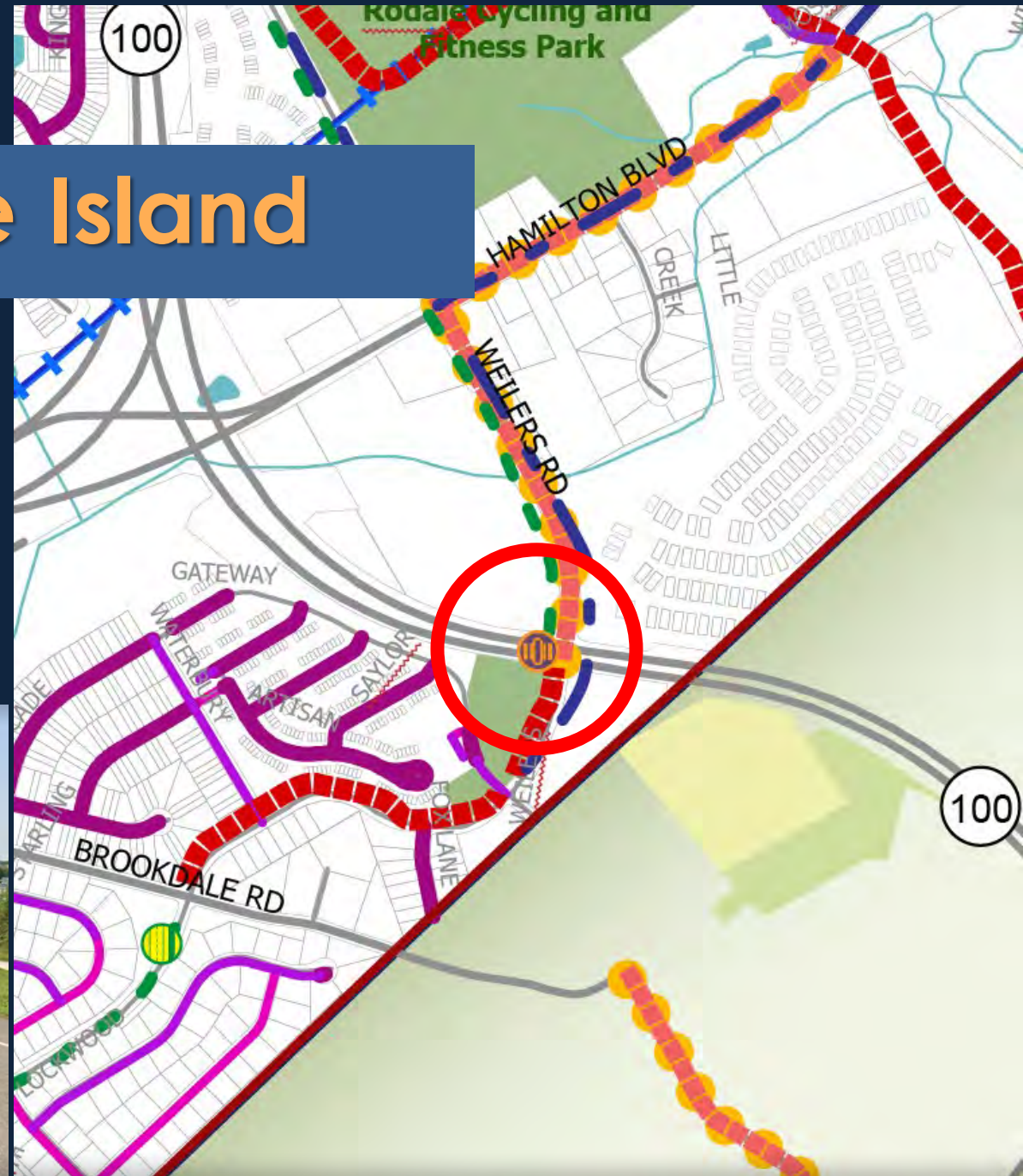
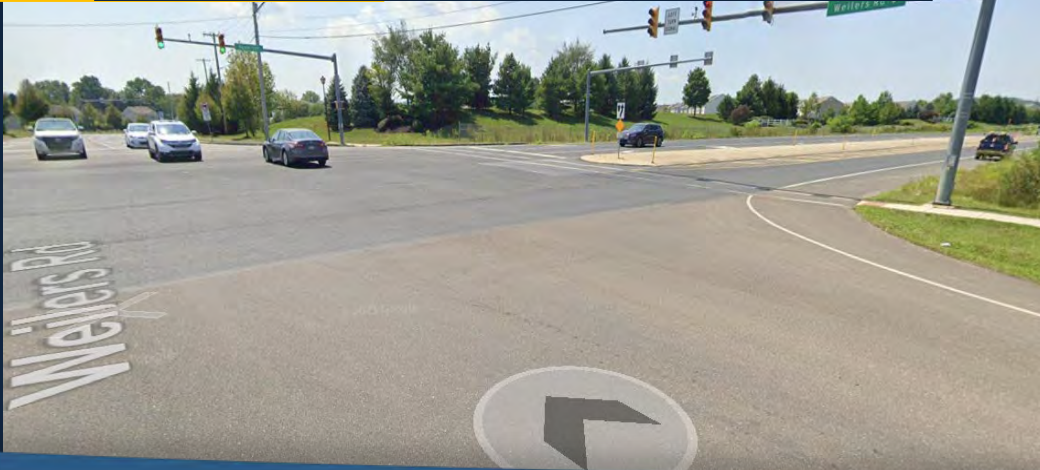


Pedestrian Refuge Island

Example: Pedestrian Refuge Island



Weilers Road/ Schaefer Run Road & SR 100



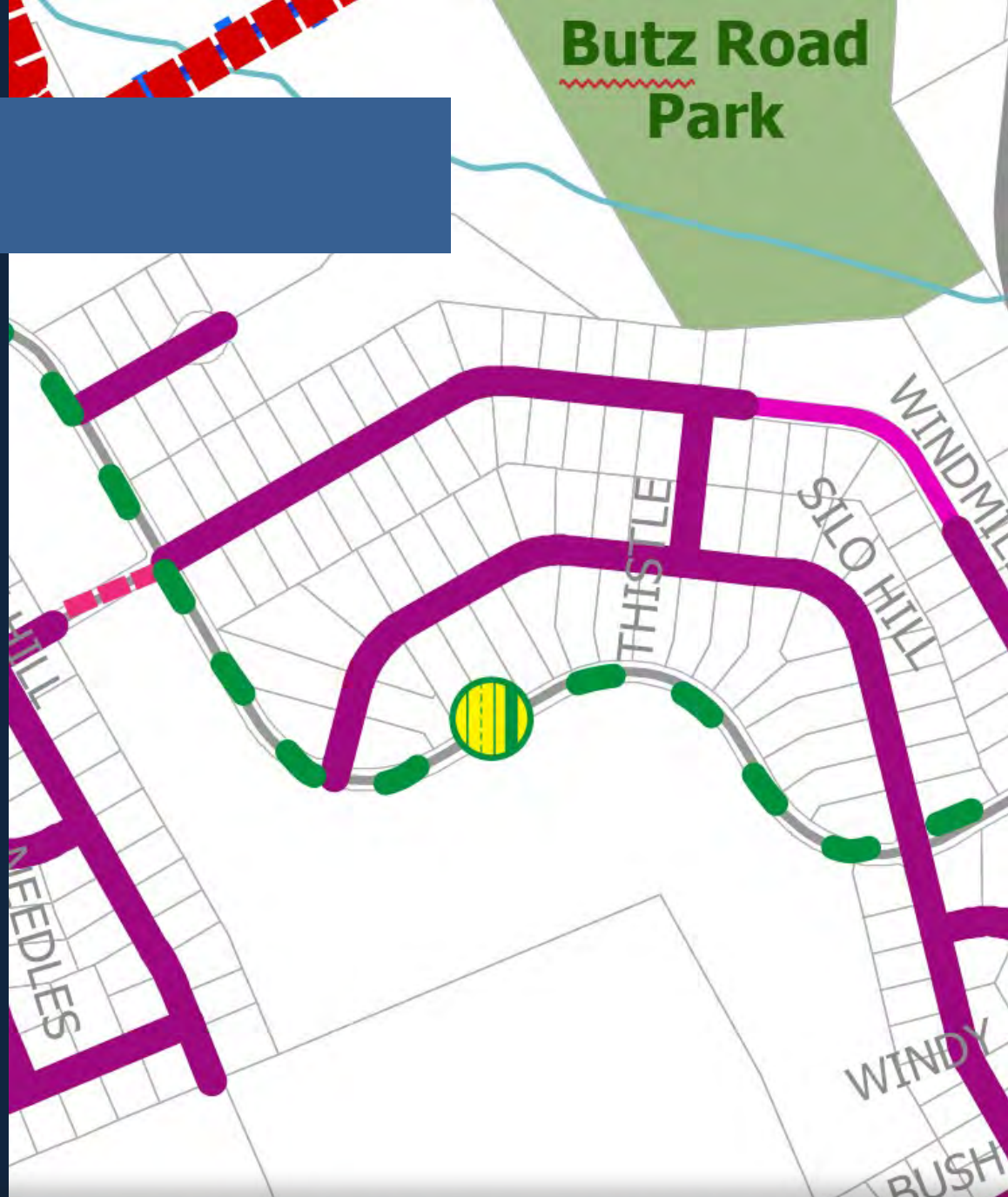


Side Path

Existing: Schaefer Run Rd



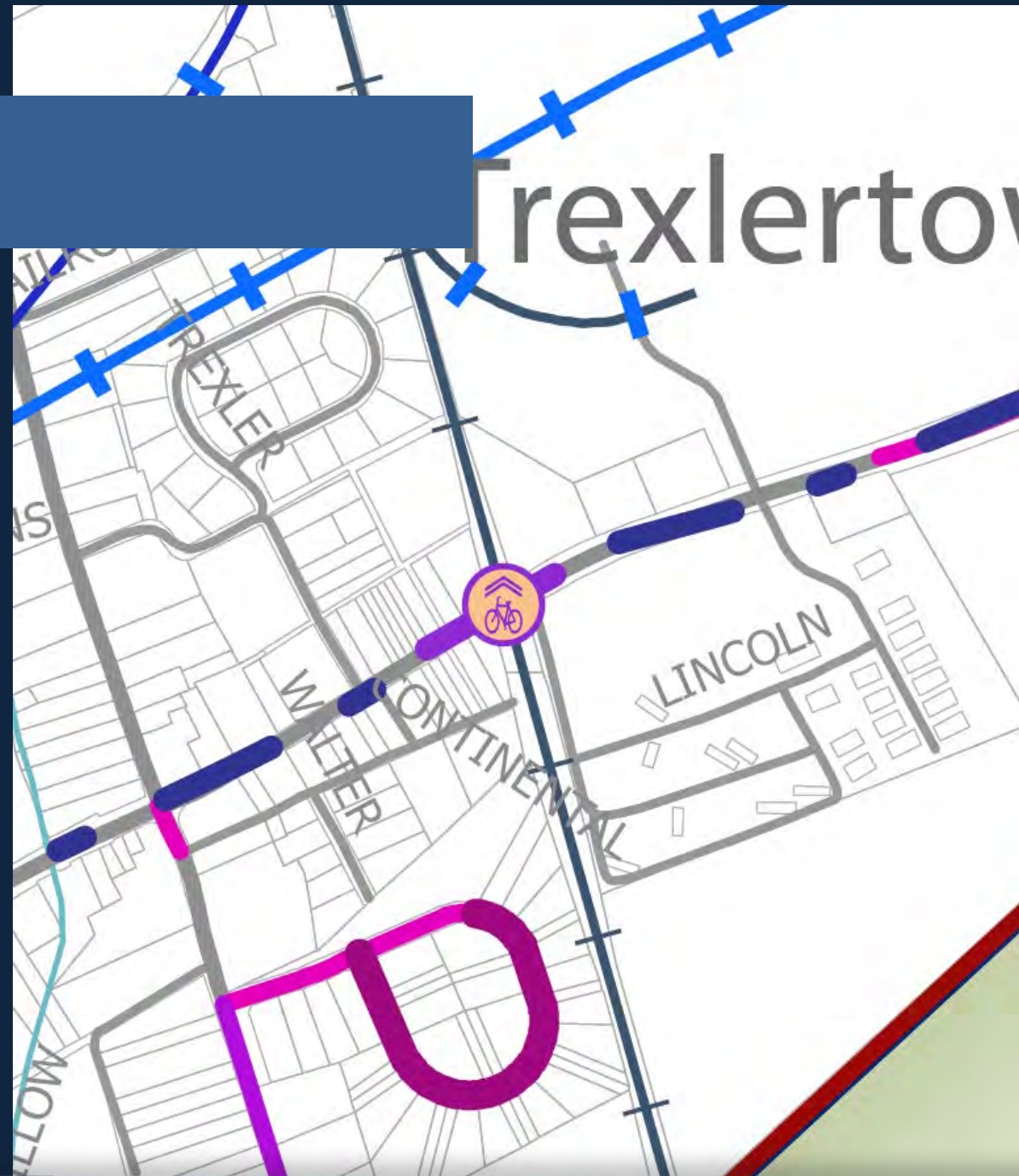
Google



Butz Road Park



Sharrow





Bicycle Parking



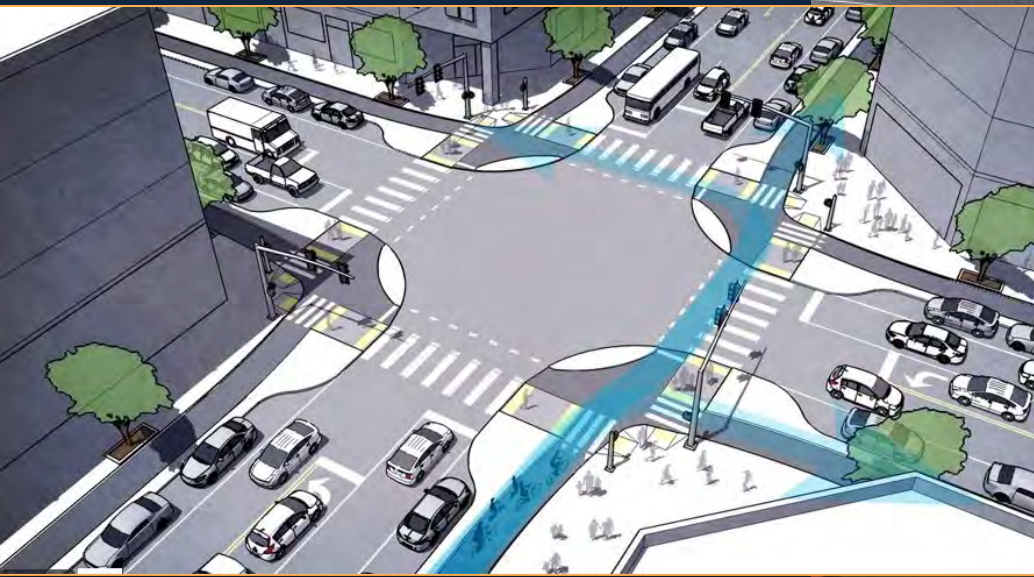


Bike Share Location



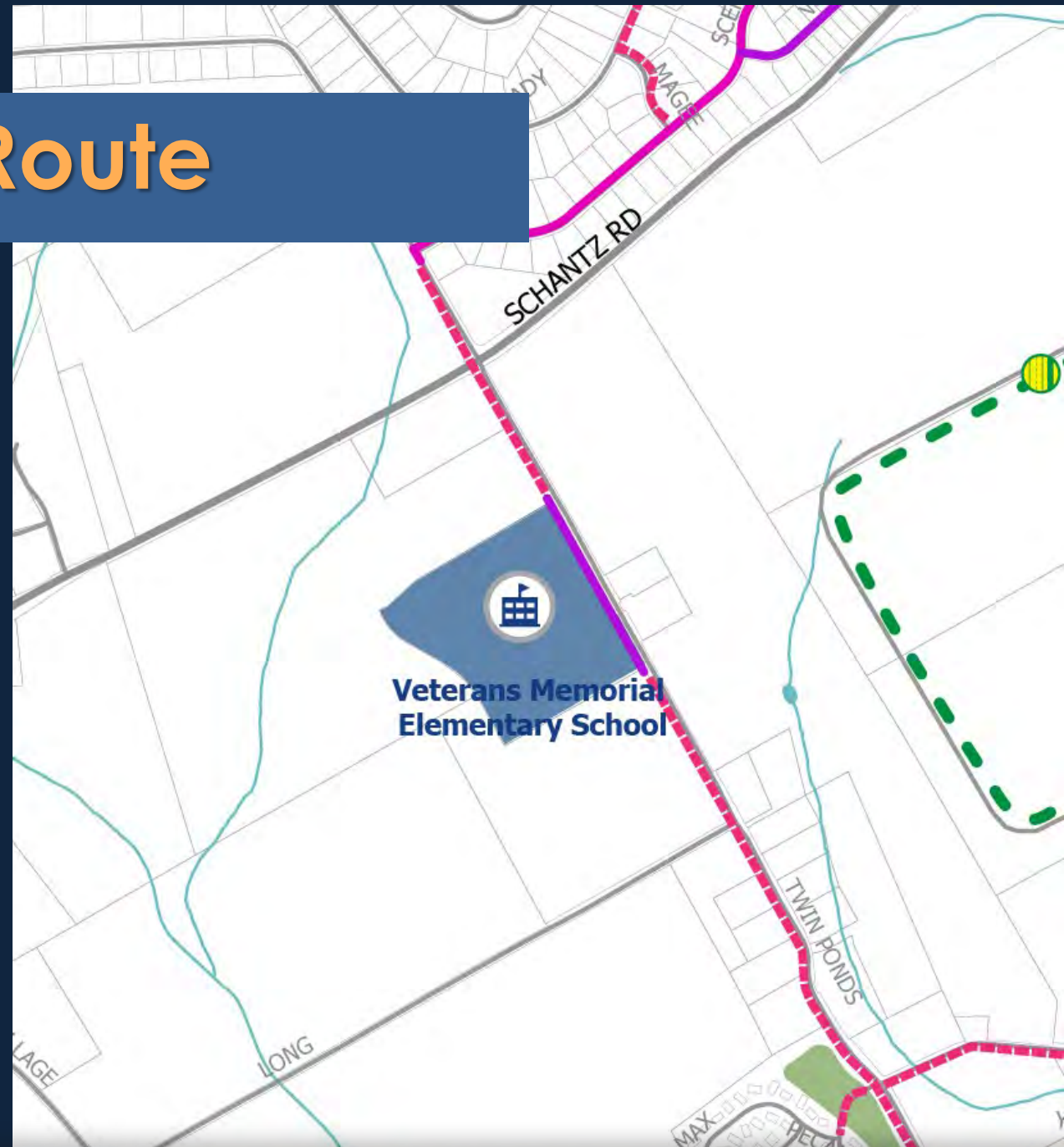
Protected Bicycle Intersection

Example: (NACTO)

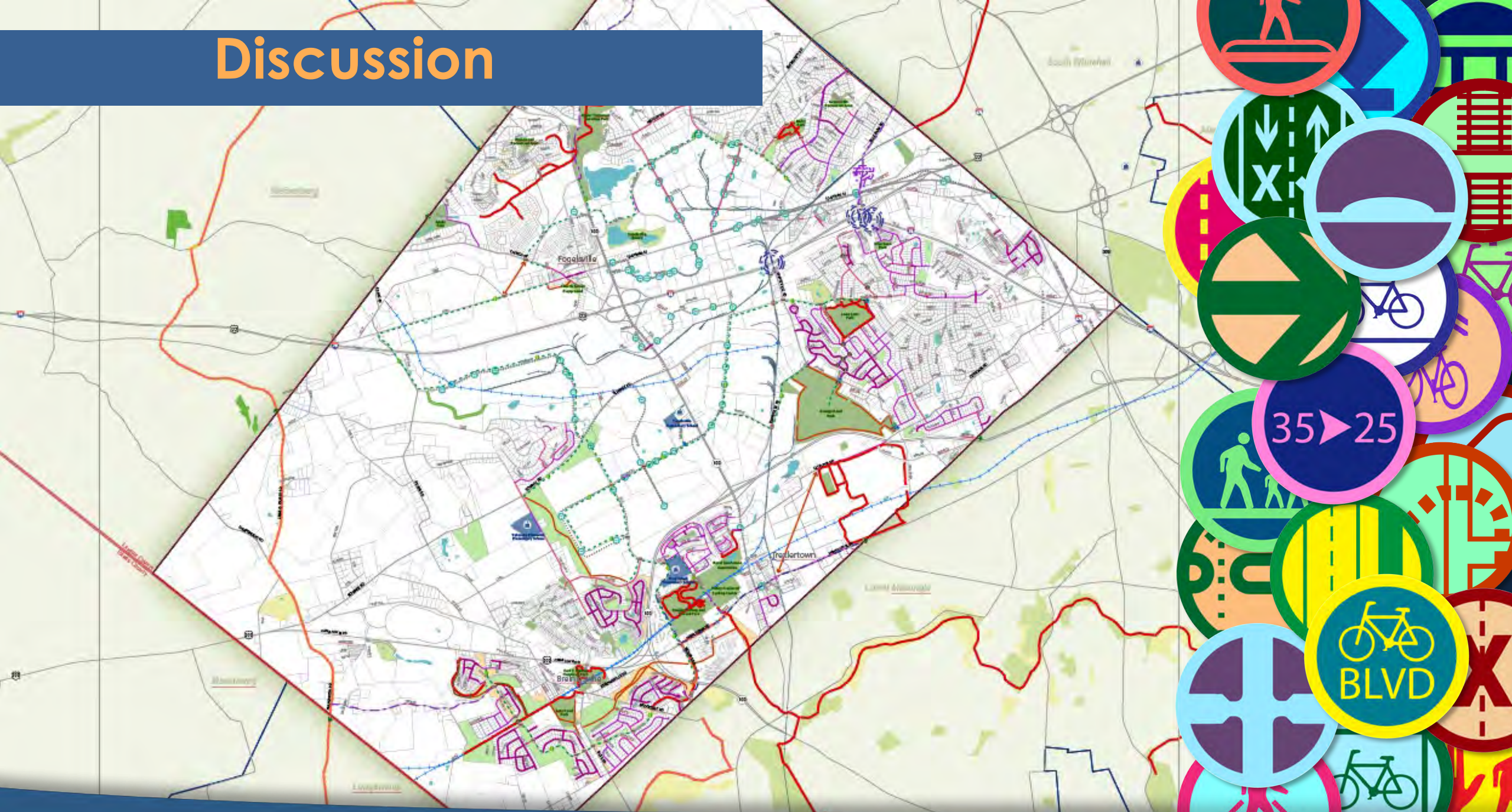




School Walking Route



Discussion



Next Steps

| | February | March | April | May | June | July | August | September | October | November |
|--|----------|-------|-------|--------|------|------|--------|-----------|---------|----------|
| Review background data and previous studies | ■ | | | | | | | | | |
| Site Reconnaissance | ■ | ■ | | ■ | | | ■ | | | |
| Obtain and set up base mapping | ■ | ■ | | | | | | | | |
| Existing Roadway, Sidewalk inventory and mapping | | ■ | ■ | ■ | | | | | | |
| Existing Trail / Trail Plans inventory and mapping / Strava data | | ■ | ■ | ■ | | | | | | |
| Access ADA accessibility issues / locations | | ■ | ■ | ■ | | | | | | |
| Create sidewalk gap plan | | | | ■ | ■ | ■ | | | | |
| Create trail gap plan | | | | ■ | ■ | ■ | ■ | | | |
| Conceptual wayfinding signs locations | | | | | | ■ | ■ | ■ | | |
| Concept cost estimates for proposed improvements | | | | | | | ■ | ■ | | |
| Prioritize improvements | | | | | | | ■ | ■ | | |
| Funding Strategy / Implementation Strategy | | | | | | | ■ | ■ | | |
| Write and Assemble Walkability and Bikeability Report | | | | | | ■ | ■ | ■ | | |
| Draft Plan | | | | | | | | | ■ | |
| Thirty (30) day draft plan review | | | | | | | | | ■ | |
| Revisions to create final plan | | | | | | | | | | ■ |
| Final Plan | | | | | | | | | | ■ |
| Public Participation | | | | | | | | | | |
| Public Meeting #1 - information gathering / brainstorming | 22nd ■ | | | | | | | | | |
| Public Meeting #2 - preliminary plan concepts | | | | 31st ■ | | | | | | |
| Public Meeting #3 - draft plan | | | | | | | | ■ | th | |
| Public Meeting #4 - final plan | | | | | | | | | | 15th ■ |
| Committee Meeting #1 - information gathering / brainstorming | ■ 8th | | | | | | | | | |
| Committee Meeting #2 - preliminary plan concepts | | | | ■ 10th | | | | | | |
| Committee Meeting #3 - refined concepts | | | | | | | ■ 12th | | | |
| Committee Meeting #4 - pre draft plan | | | | | | | | ■ 16th | | |
| Committee Meeting #5 - agree on revisions for final plan report | | | | | | | | | ■ 11th | |
| Write and administer public opinion survey | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | |
| Set Up and administer Wiki Mapping Interactive mapping tool | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | |
| Key Person / Agency Interviews (15) | | ■ | ■ | | ■ | ■ | | | | |
| Meeting with LVPC | | | | | | | | | ■ | |
| Meetings (2) with PennDOT District 5-0 | | | ■ | | | | | | ■ | |
| Coordination with Township staff | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |



Project Consultants

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