

TOWAMENCIN TOWNSHIP

SIDEWALK CONNECTIVITY STUDY

Public Meeting #2 – February 9, 2022

Please note this presentation is being recorded.

During the presentation feel free to type questions in the Q&A box. We will answer question during the Q&A session after the presentation.

Agenda

1. Team Introduction
2. Project Meeting Update
3. Survey Monkey & WikiMap Results to Date
4. Site Visit Observations
5. Base Mapping
6. Analysis Mapping
7. Preliminary Concepts: Application of Improvement 'Toolbox'
8. Discussion
9. Next Steps

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Project Committee

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Project Schedule

Towamencin Connectivity Study – Project Schedule



- 4 Public meetings
- 4 Committee meetings
- Selected Key Person Interviews
- Opinion Survey (6 mo.)
- Wikimapping
- Press Releases
- Township Staff meetings

Meeting	Purpose	Date	Time
Committee Meeting #1	Project overview, initial site analysis, brainstorming	Monday, October 10, 2022	7:00 - 8:30 PM
Public Opinion Survey/ Wikimapping Period	Write and administer Public Opinion Survey/ Wikimapping	Monday, October 3, 2022 – Thursday, April 13, 2023	
Public Meeting #1	Project Overview / Public Brainstorming	Thursday, November 10, 2022	7:00 - 8:30 PM
Committee Meeting #2	Review Public Meeting/survey, analysis process, initial concepts	Monday, December 5, 2022	7:00 - 8:30 PM
Public Meeting #2	Analysis / Concepts	Thursday, February 9, 2023	7:00 - 8:30 PM
Committee Meeting #3	Concept refinement, draft plan overview	Monday, March 6, 2023	7:00 - 8:30 PM
Public Meeting #3	Draft Plan Presentation	Thursday, April 13, 2023	7:00 - 8:30 PM
Public Review Period	45-Day Draft Plan Review	Thursday, April 13, 2023 – Monday, May 29, 2023	
Board of Supervisors Meeting	Review Draft Plan	Wednesday, May 10, 2023	7:00 - 8:30 PM
Committee Meeting #4	Review comments and make revisions	Monday, June 5th, 2023	7:00 - 8:30 PM
Public Meeting #4	Present final plan	Thursday, June 22, 2023	7:00 - 8:30 PM



Project Meeting Update



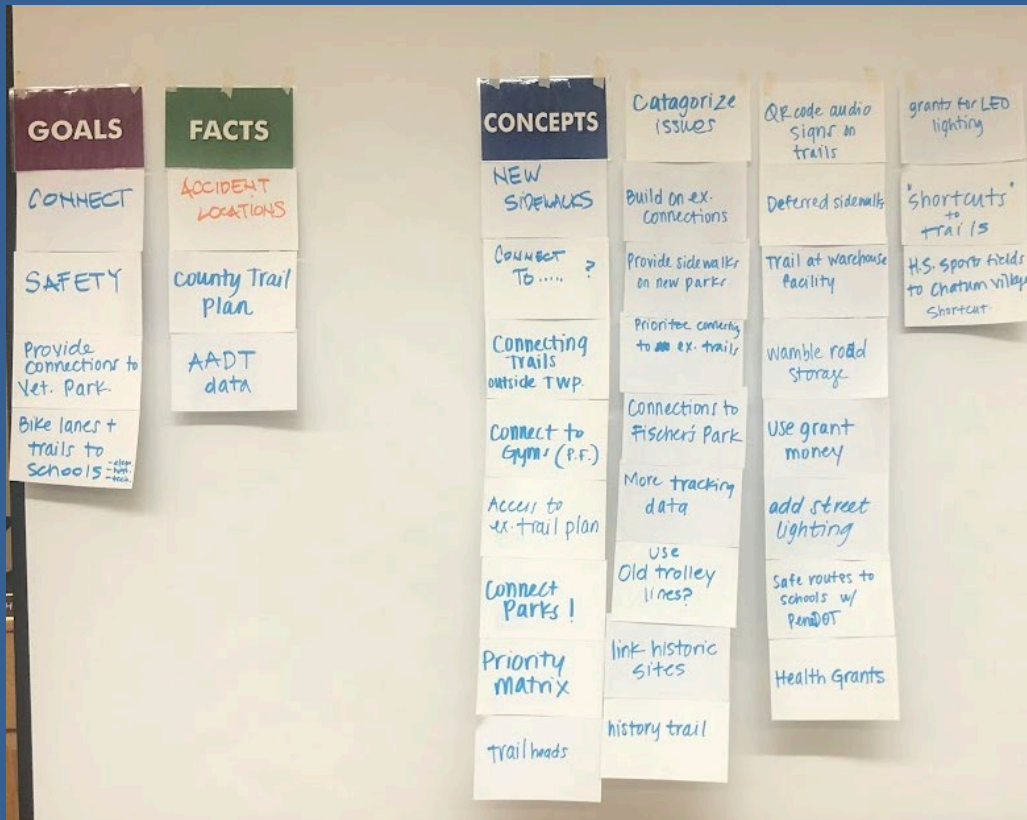
Public Meeting 1

GOALS

FACTS

CONCEPTS

PARTNERS



- Connecting Trails outside of Township
- Connect to Gyms
- Access to ex. Trail plans
- Connect Parks
- Priority Matrix
- Trailheads
- Categorize issues
- Build on ex. Connections
- Provide sidewalks on new parks
- Prioritize connecting to existing trails
- Connections to Fischer's park
- More tracking data
- Use old trolley lines
- Link historic sites
- History trails
- QR Code audio signs
- Deferred Sidewalks
- Trail at warehouse facility
- Wambold Rd Storage
- Use grant money
- Add street lighting
- Safe Routes to Schools with PennDOT Health Grants
- Grants for LED lighting
- "Shortcuts" to trails
- HS sports fields to Chatham Village

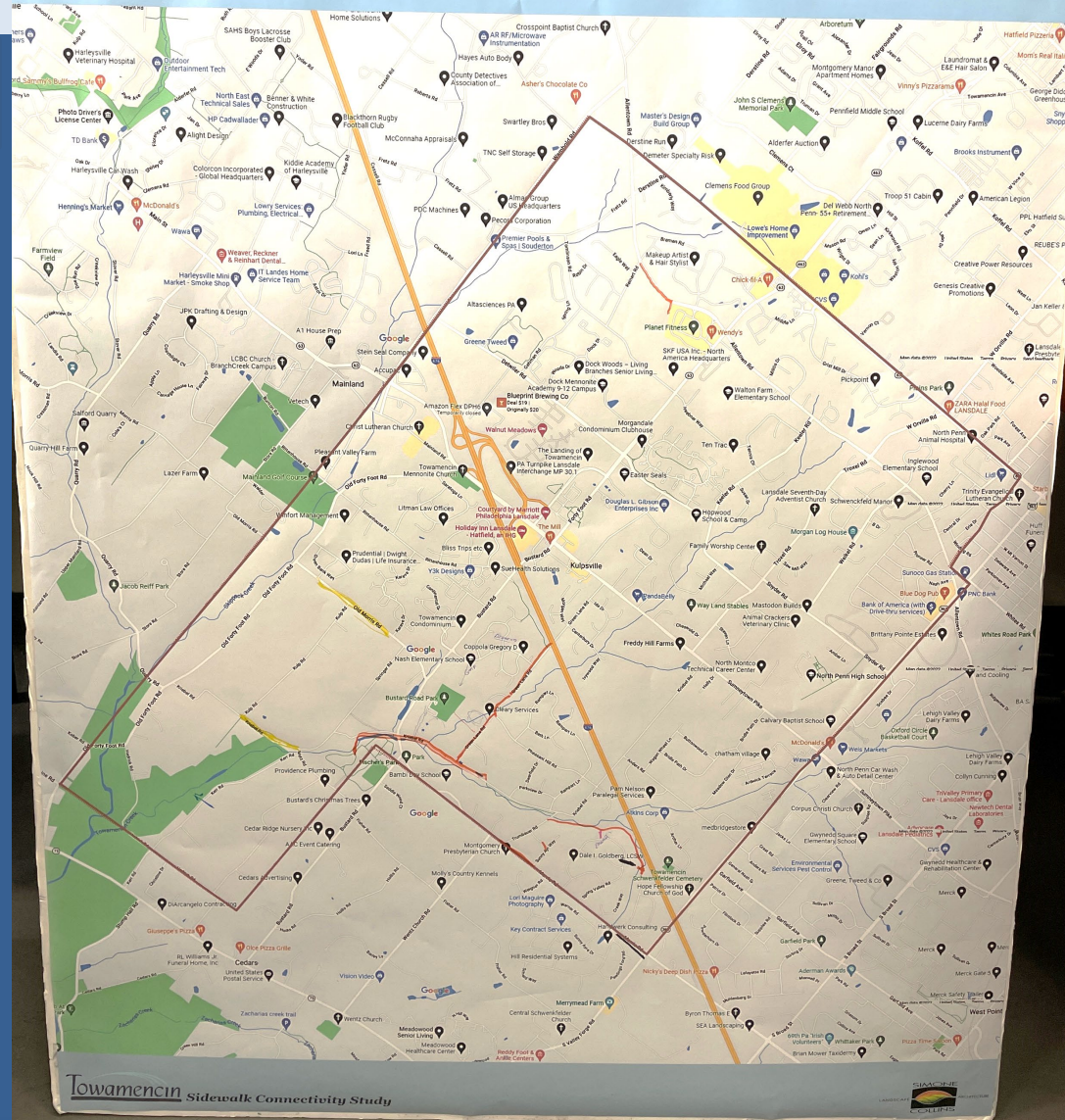
Public Meeting 1

Desired Routes

- Connect Green Lane Rd where stream is dividing it
- Route on Allentown Rd connecting to Tennis Lukens Cemetery (Future Veteran's Memorial Park)
- Route on Kreibel Rd connecting the KRT and Fischer's Park
- Route on Morris Rd connecting Trumbauer Rd and Sunny Ayr Way
- Route connecting Stonebridge Cir to Sunny Ayr Way
- Route from Spring Valley Rd connecting to the Phase 1 of the KRT extension

Desired Routes

Where would you like to see a route?
(draw your alignment on the map)



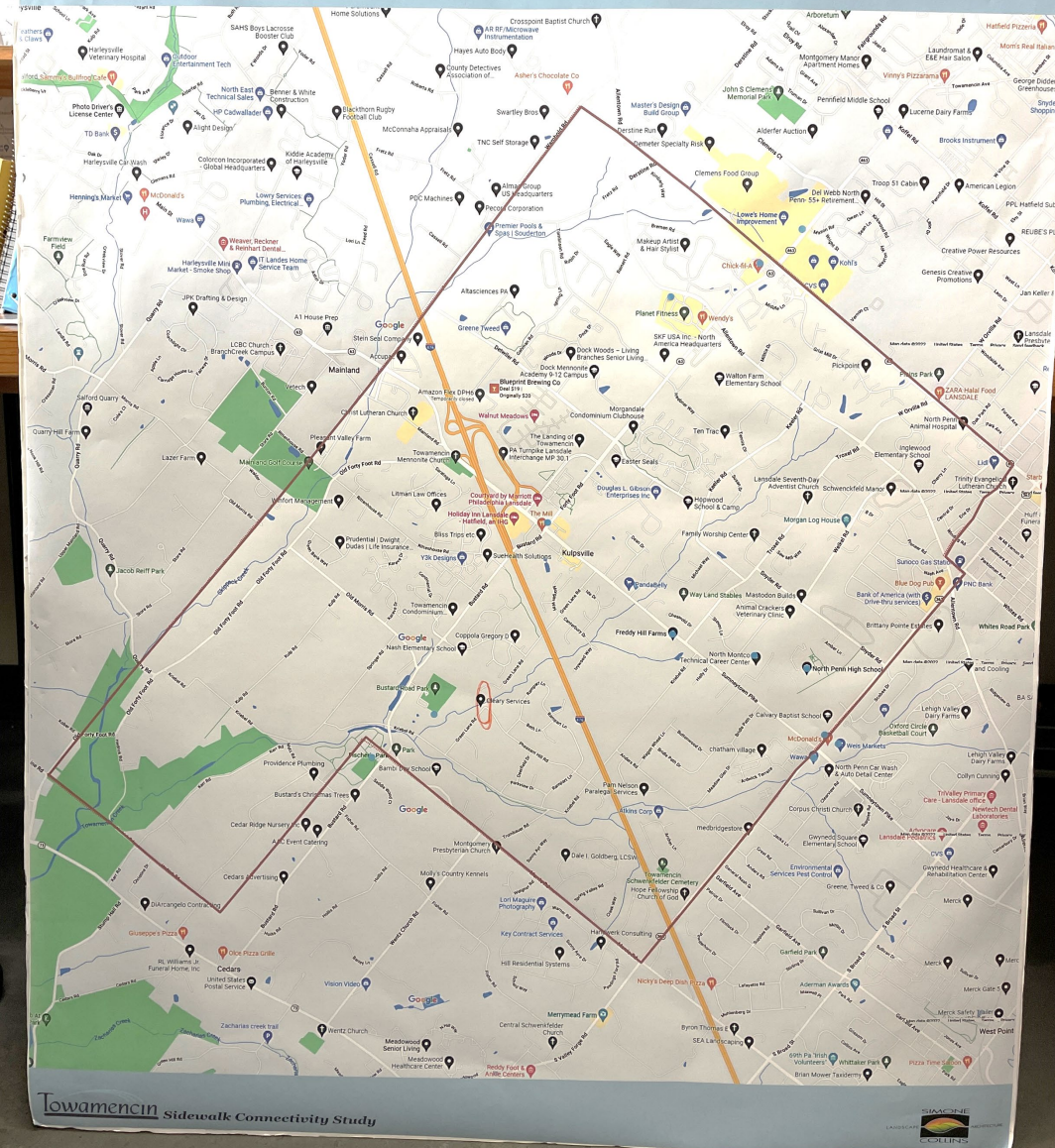
Public Meeting 1

Destinations

- Hatfield Point Shopping Center (outside of township)
- Chick-fil-A
- Planet Fitness
- The Mill
- Freddy Hills Farms
- North Montco Technical Career Center
- North Penn High School
- Wawa (outside of township)
- McDonalds (outside of township)
- Weis Market (outside of township)
- Fischer's Park
- Bustard Road Park

Destinations

Where do you go?
(place a **BLUE** dot on your destinations)



Public Meeting 1

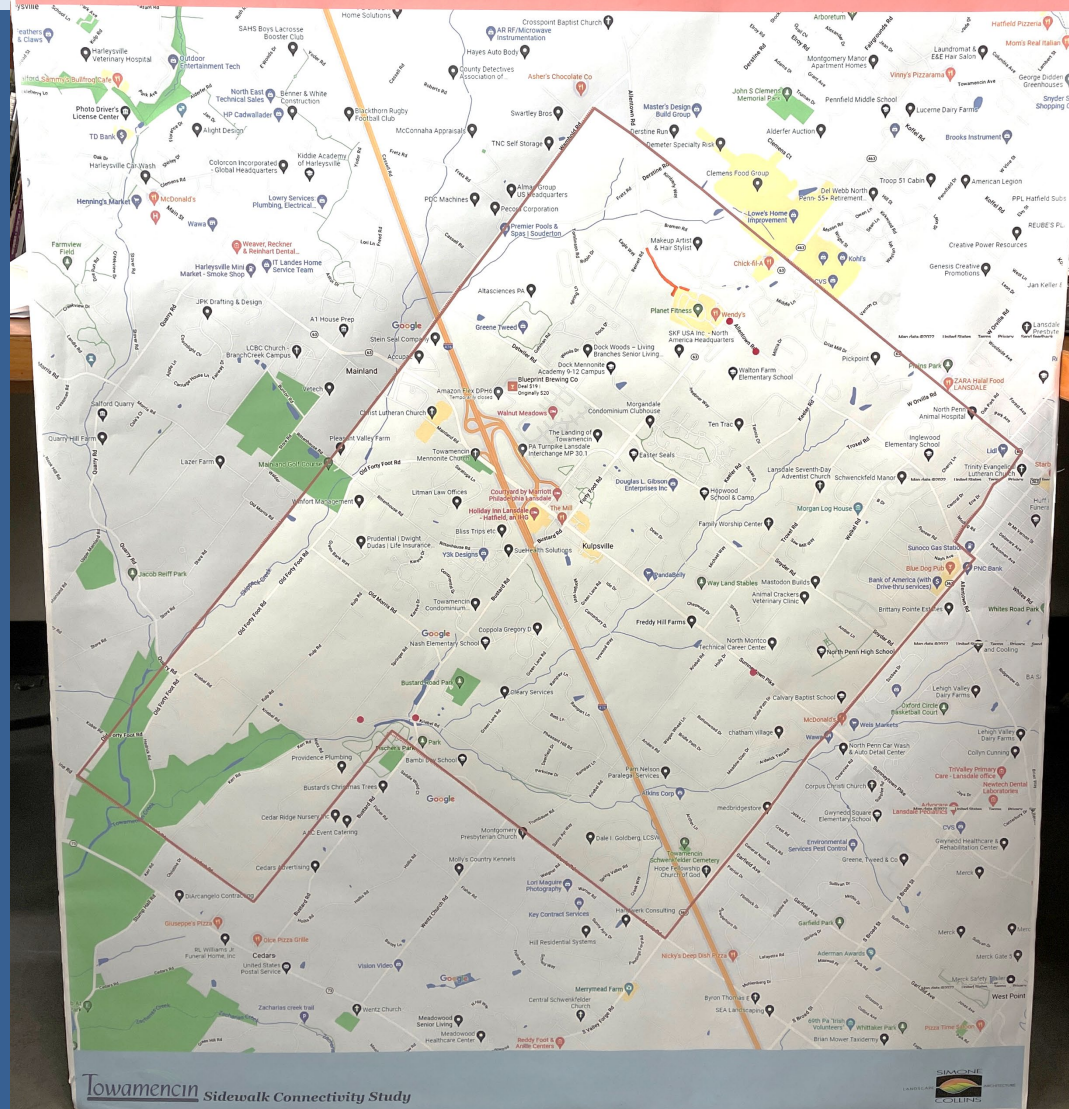
Challenges

- Allentown Rd and Forty Foot Rd
- Allentown Rd at Intersection of Grist Mill Park
- Allentown Road between Reinert Rd and Tennis Lukens Cemetery (Future Veteran's Memorial Park)
- Kriebel Rd and Bustard Road
- Kriebel Rd and Springer Road
- Sumneytown Pike at North MontCo Technical Career Center

Challenges

- Examples:
- Private Property
 - Challenging Intersections
 - High Volume Traffic
 - Narrow Roads

Where are the potential issues?
(place a RED dot or draw any issues)





Survey Monkey Results to Date

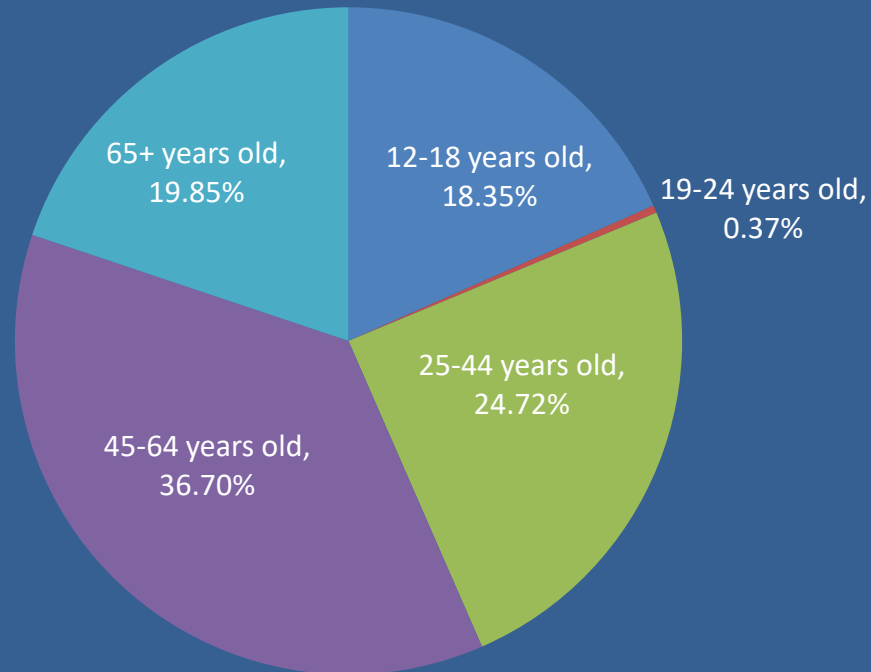


Survey Results

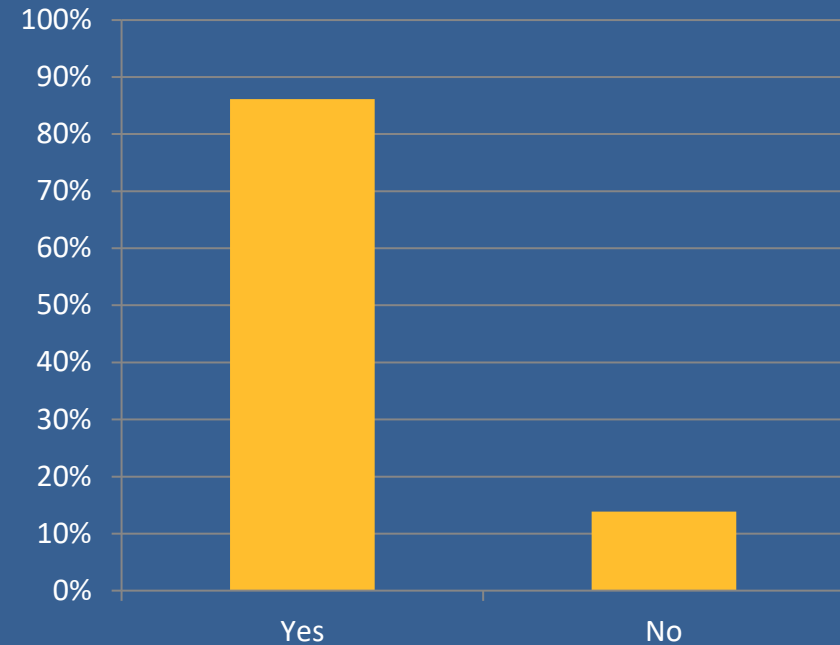
Demographics

270 Responses on 2/6

What is your age?



Are you a resident of Towamencin Township?

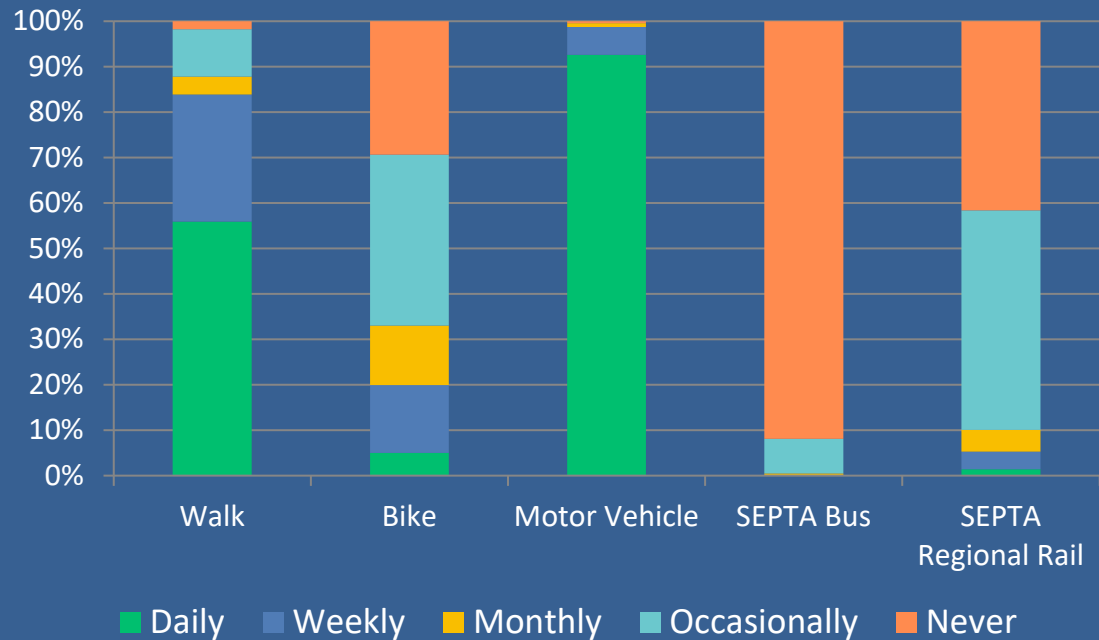


Survey Results

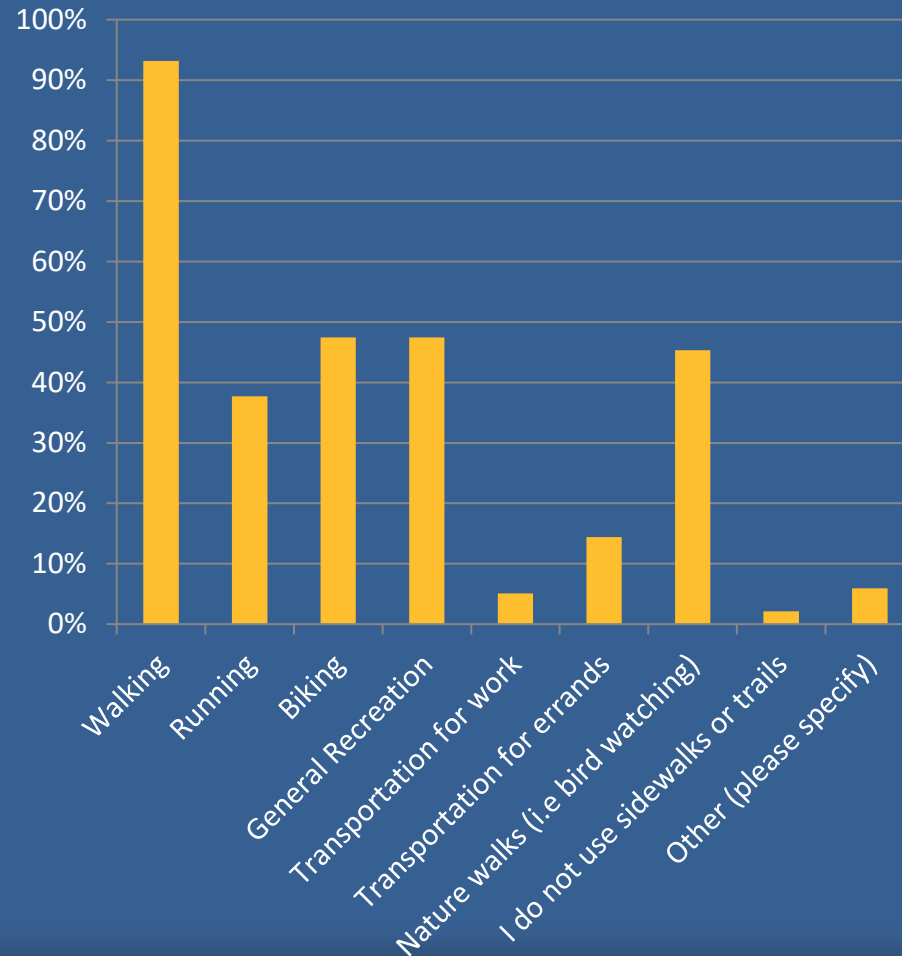
Transportation – General

270 Responses on 2/6

How often do you use the following modes of transportation?



For which activities do you use the sidewalks and trails?
Select all that apply.



“Other” Responses:

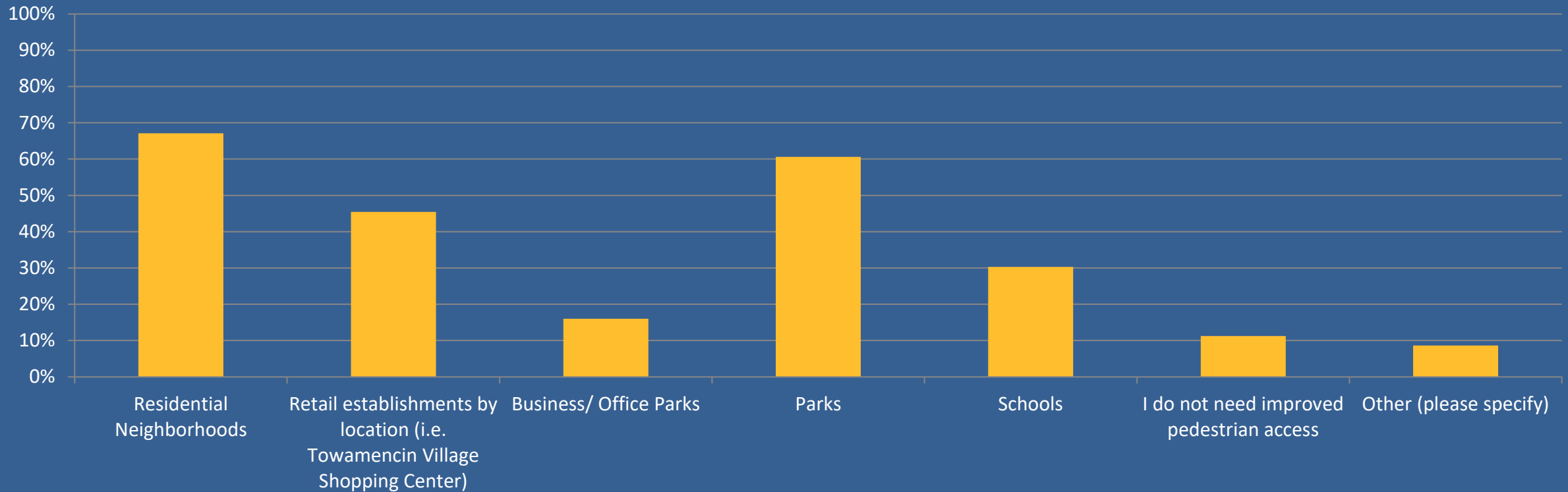
- Walking kids to school
- Trails only, not sidewalks
- Taking my dog on a walk
- Dog walking
- Trail to Fischer’s park
- Bike to gym
- Bike/foot access to state park

Survey Results

Transportation – General

270 Responses on 2/6

To what areas would you like improved pedestrian and/or bicycle access?
Select all that apply.

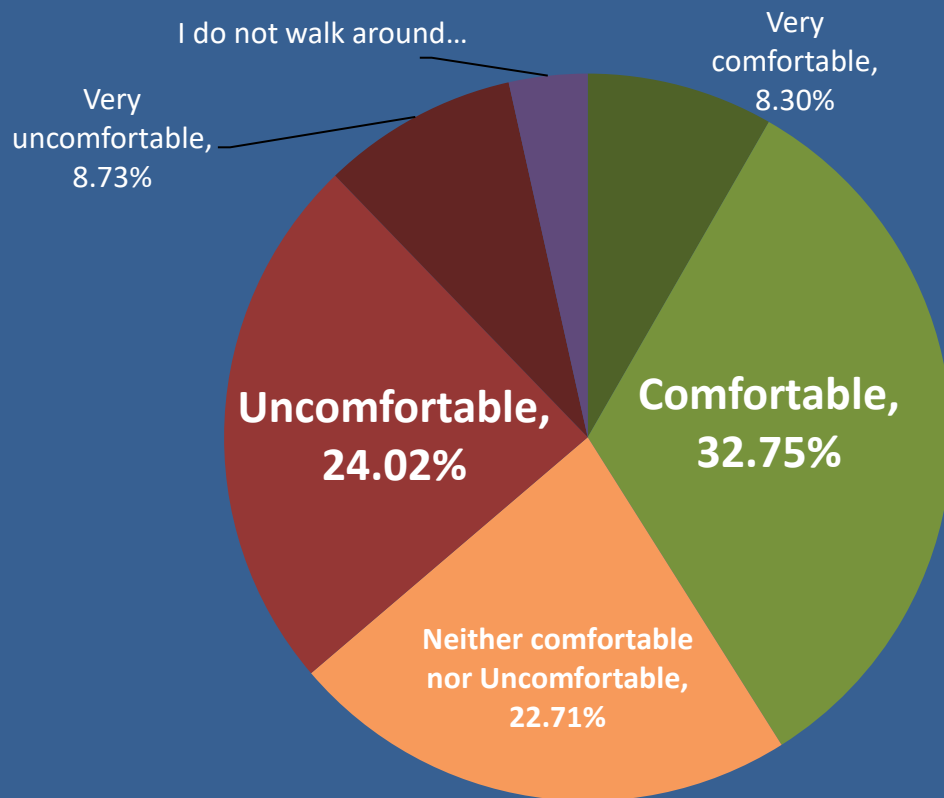


Survey Results

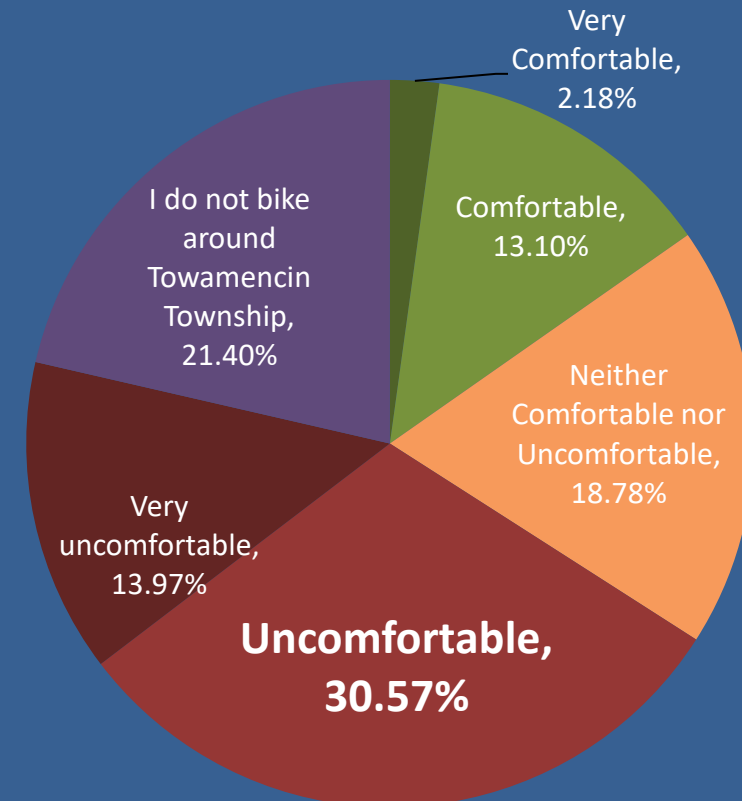
Traffic Safety

270 Responses on 2/6

From a perspective of traffic safety, how comfortable do you feel walking in Towamencin Township?



From a perspective of traffic safety, how comfortable do you feel biking in Towamencin Township?

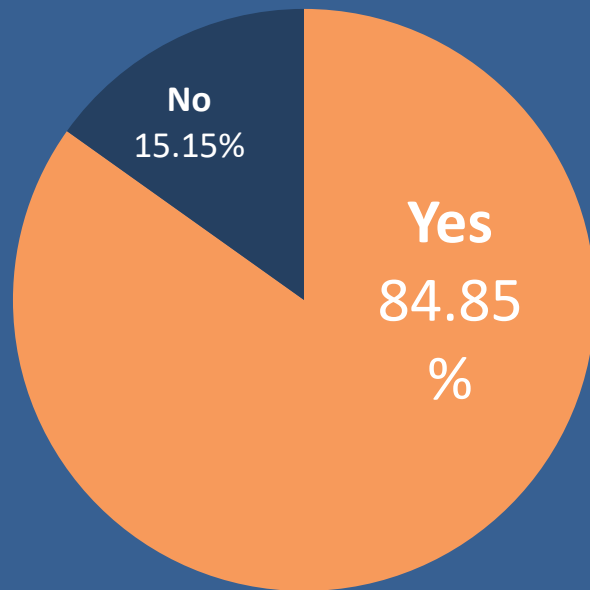


Survey Results

Traffic Safety

270 Responses on 2/6

From a perspective of traffic safety, are there locations as a motorist where you are concerned with pedestrian and/or bicyclist safety?



Please list the top 5 locations where you are concerned with pedestrian and/or bicyclist safety.

Out of 86 responses, top results are:

1. Bustard Road – 28
2. Allentown Road – 26
3. Kriebel Road – 24
4. Forty Foot Road – 21
5. Sumneytown Pike – 20

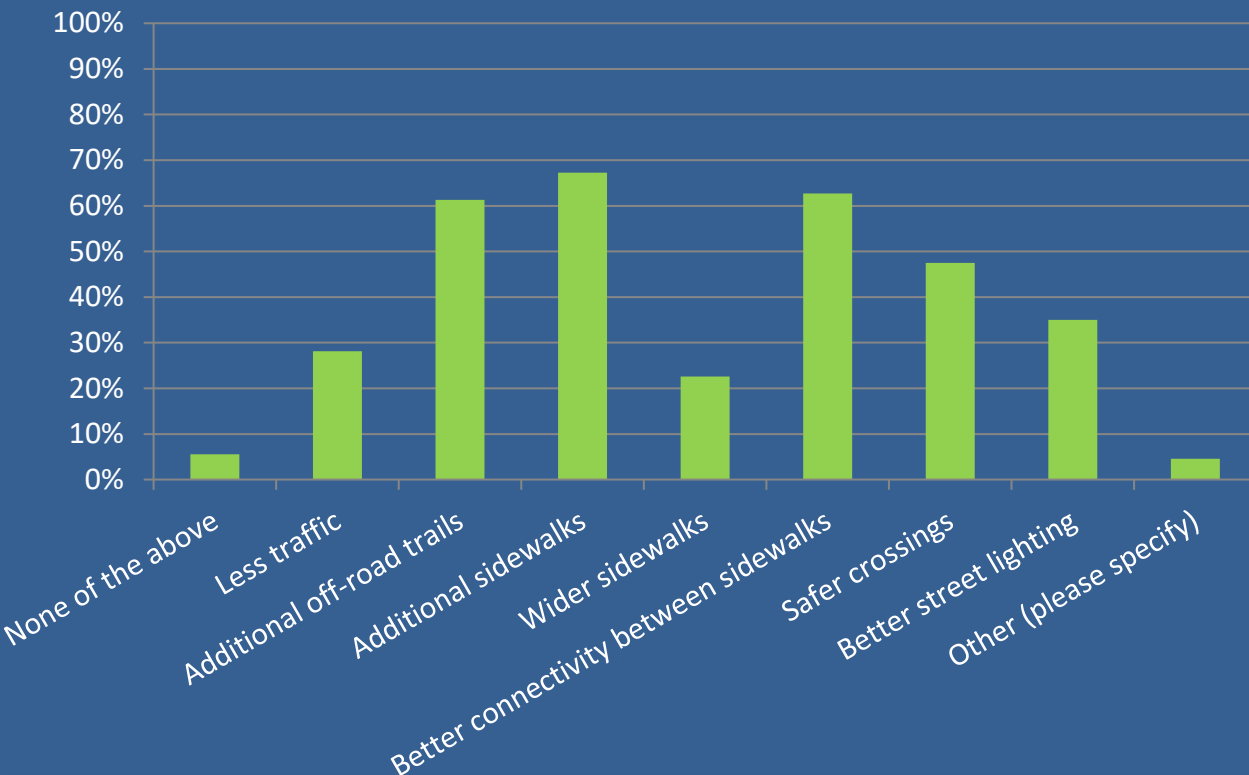
Others include: Old Forty Foot Road, Morris Road, Valley Forge Road, Troxel Road and Anders Road

Survey Results

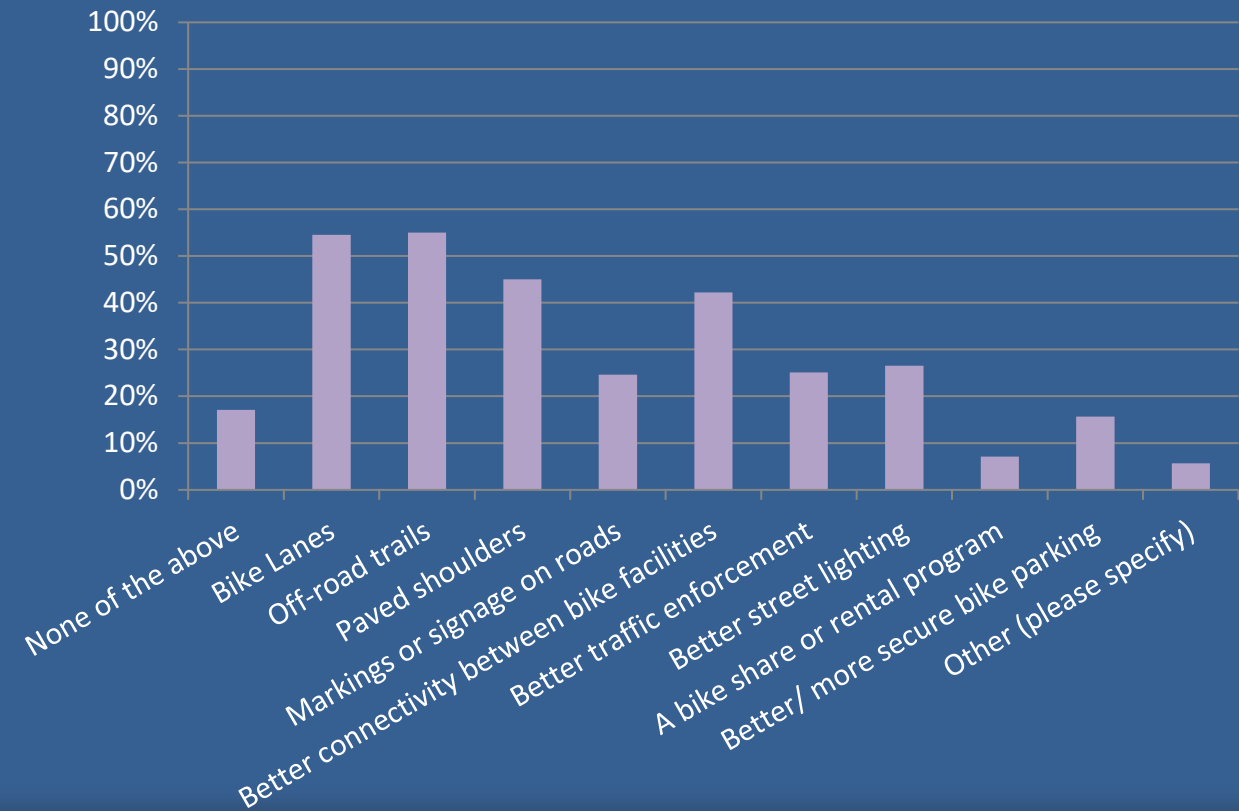
Traffic Safety

270 Responses on 2/6

What would encourage you to walk more?
Select all that apply.



What would encourage you to bike more?
Select all that apply.

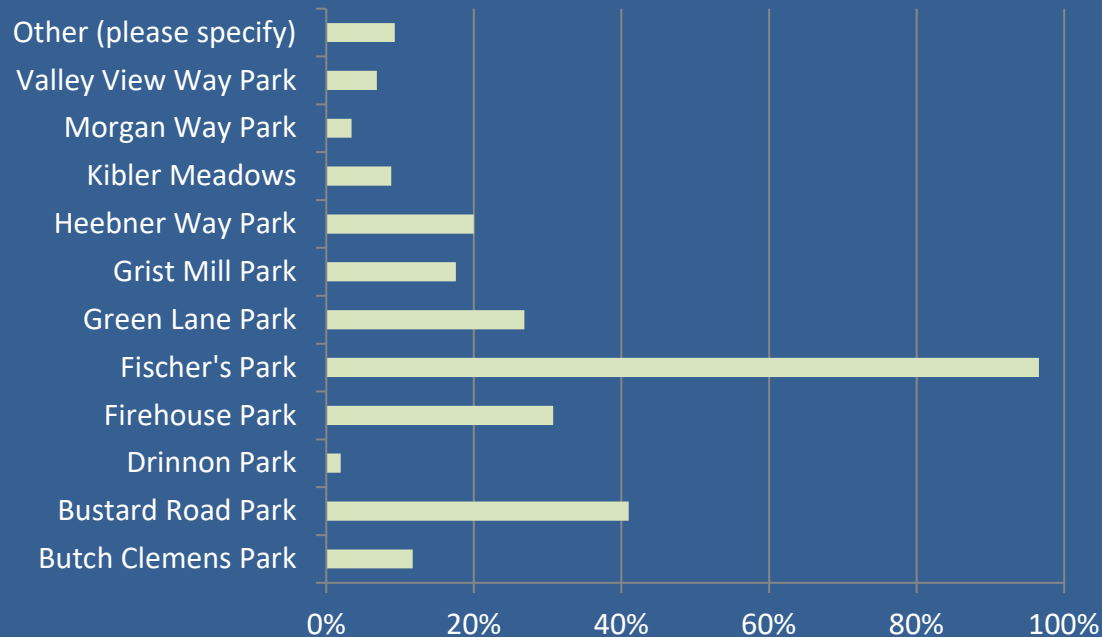


Survey Results

Transportation – Parks and Trails

270 Responses on 2/6

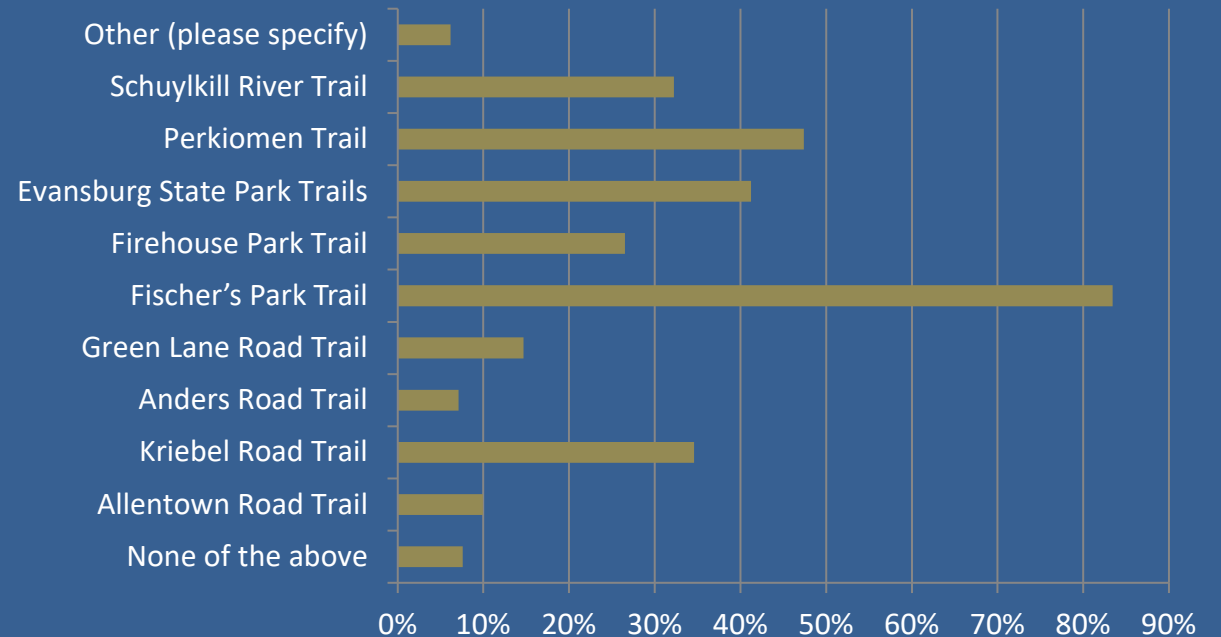
Which Township parks, natural areas, or open spaces areas do you currently visit? (Please check all that apply)



"Other" Responses:

- Towamencin Pool Park

Which trails do you currently visit? (Please check all that apply)



"Other" Responses:

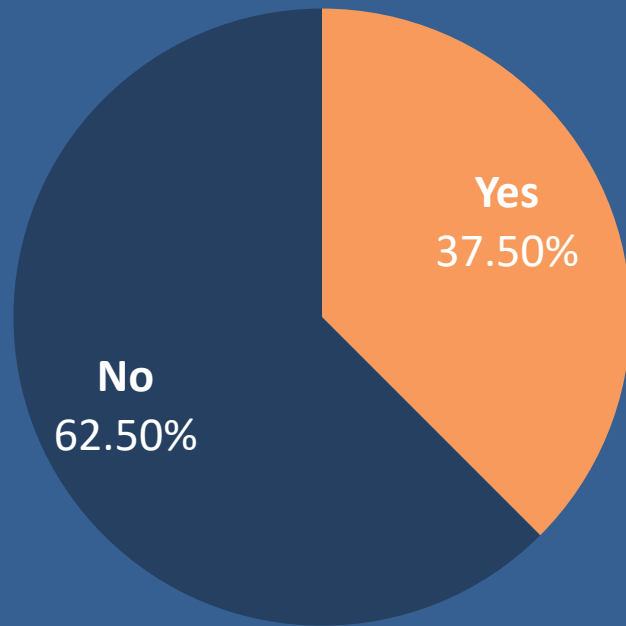
- Zacharia Creek Trail

Survey Results

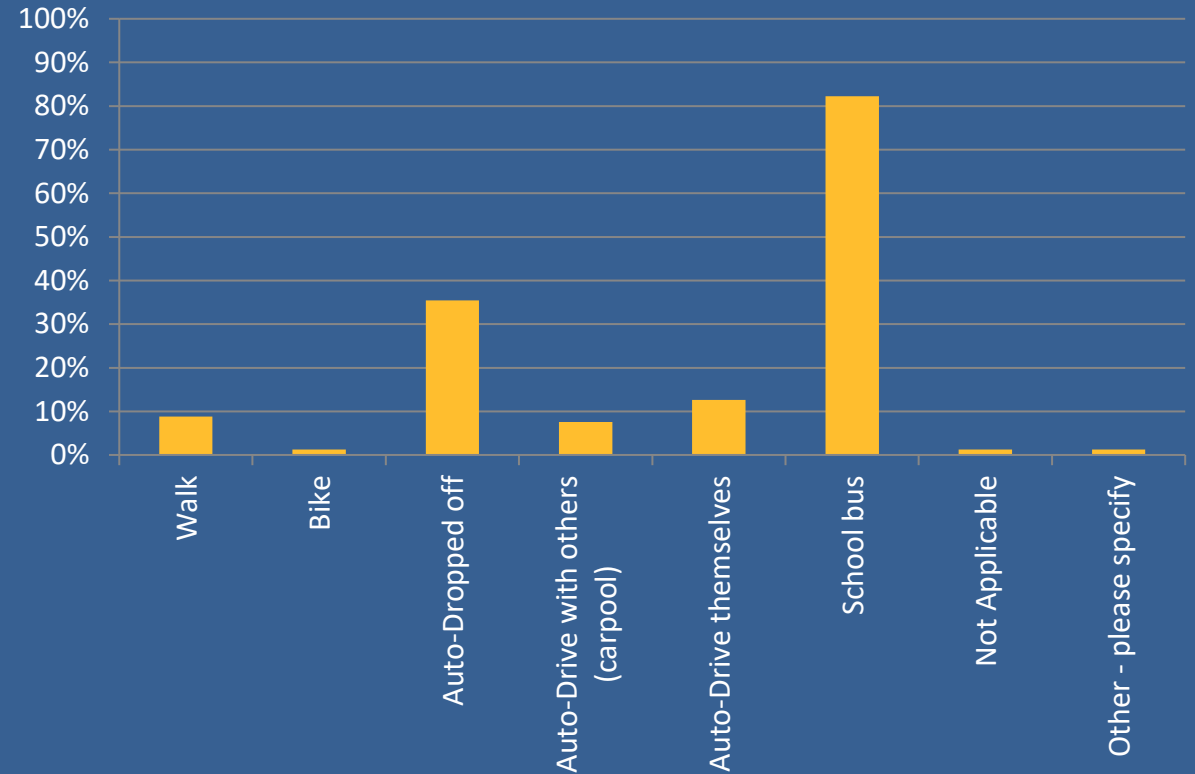
Transportation – Schools

270 Responses on 2/6

Do you have school-aged children?



What modes of transportation do your school-aged children use to get to/from school? Select all that apply.

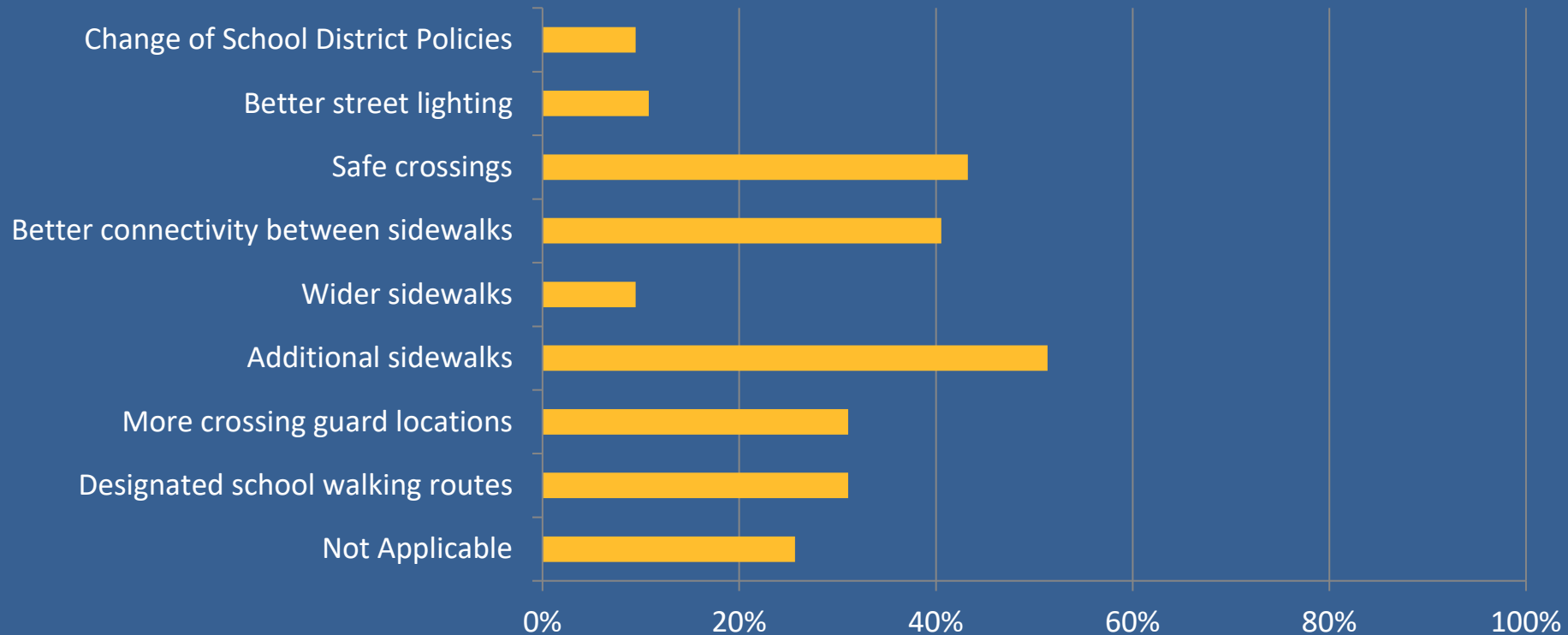


Survey Results

Transportation – Schools

270 Responses on 2/6

If your child/children do not walk or bike to/from school, which physical changes would need to be made for this to occur? Select all that apply.



“Other” Responses:

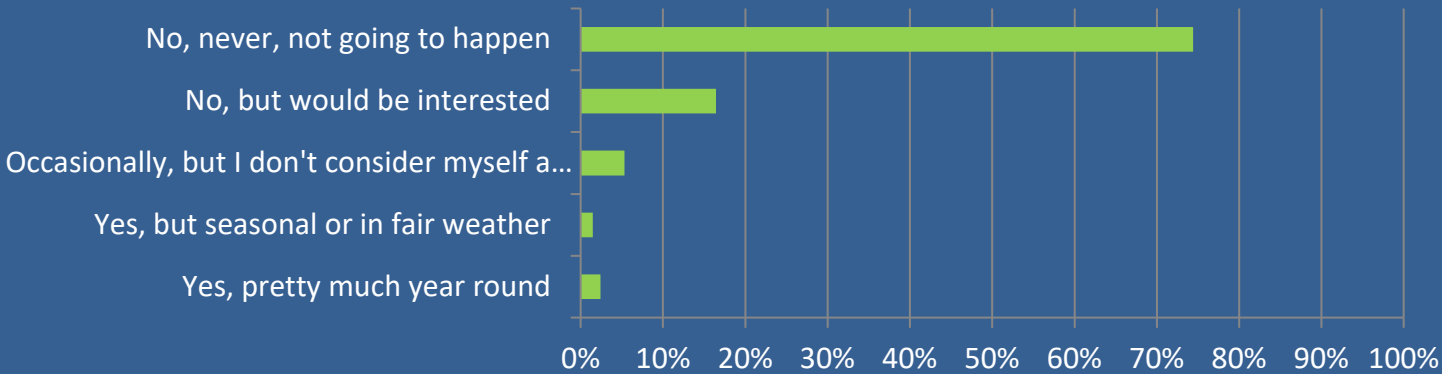
- Less Traffic
- A pedestrian bridge that connects Green Lane Road
- A crosswalk/guard close to the Inglewood walking path near Weikel Road side
- A traffic light at Allentown Road to Inglewood

Survey Results

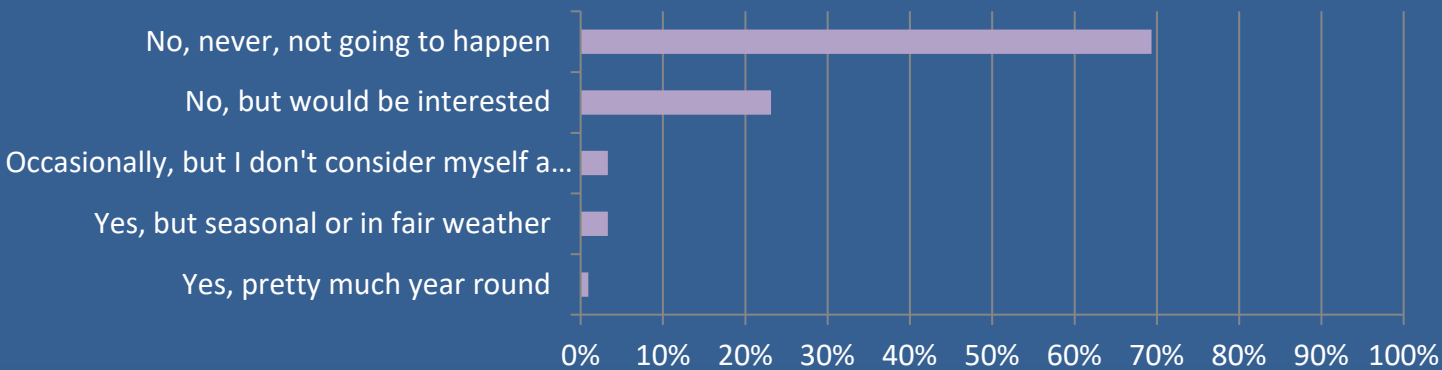
Transportation – Commuting

270 Responses on 2/6

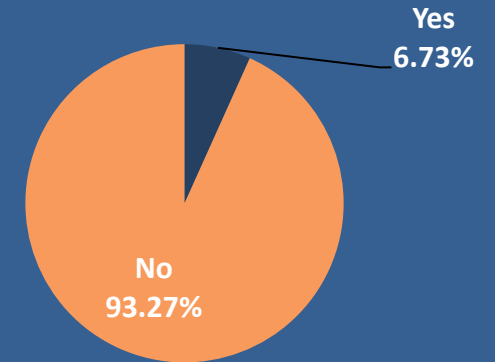
Do you presently commute to work on foot?



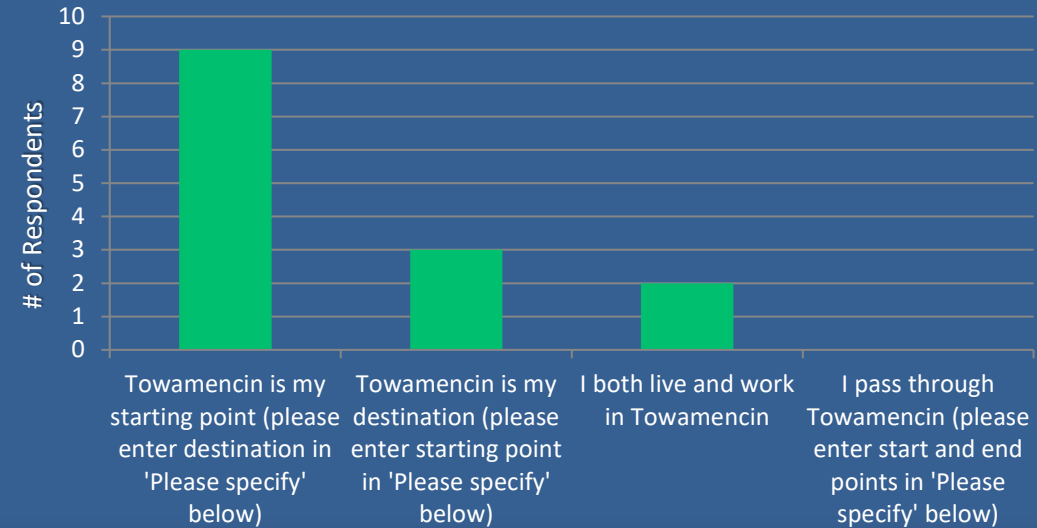
Do you presently commute to work by bicycle?



Do you commute to work using public transportation (i.e. bus, train)



If you commute to work by bicycle:

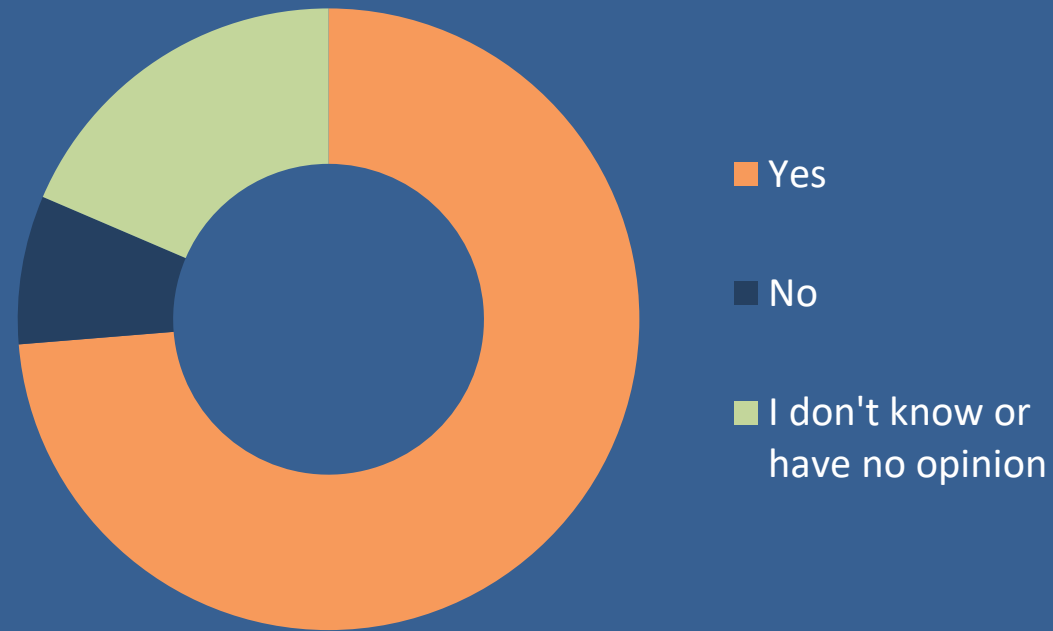


Survey Results

Closing Thoughts

270 Responses on 2/6

As a motorist I would accept a slightly longer travel time if that meant a safer environment for pedestrians and bicyclists.

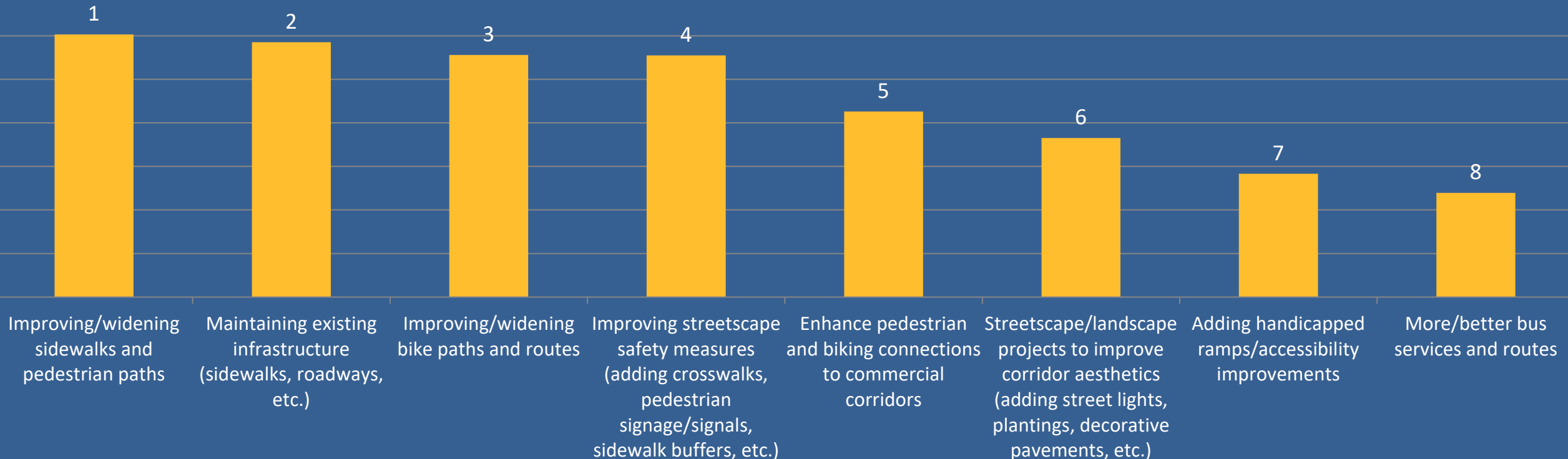


Survey Results

Closing Thoughts

270 Responses on 2/6

Please rank the following improvements on how you think Towamencin Township can create better pedestrian and bicycle connectivity. (1=Highest Priority, 8=Lowest Priority)














WikiMap Results to Date




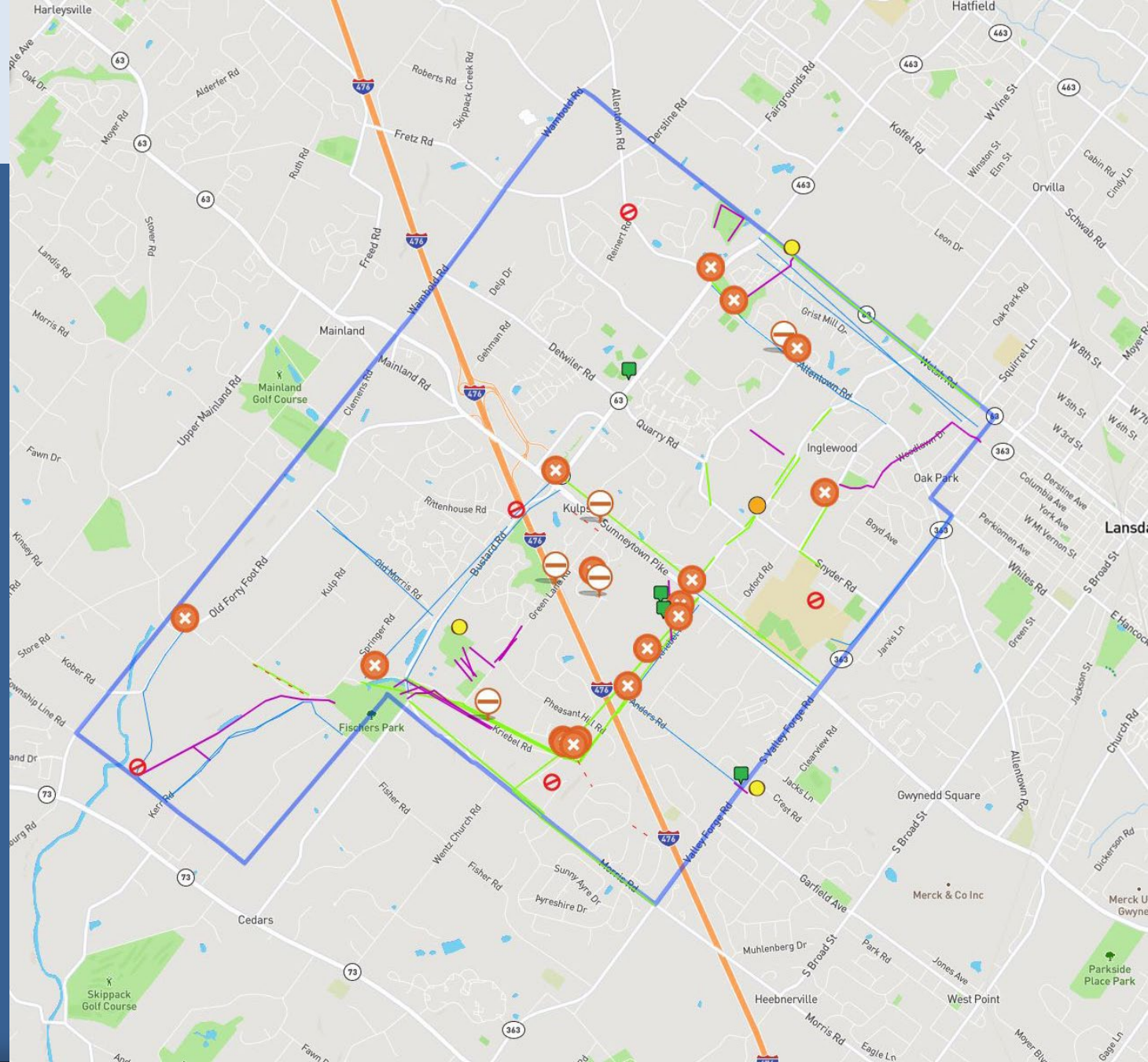
WikiMap Results

100 SPECIFIC INPUTS
TO THE MAP ON 2/6

-  BARRIERS TO CONNECTIVITY (5 total)
-  DESIRED BIKE ROUTE (16 Total)
-  DESIRED SIDEWALK (22 Total)
-  DESIRED TRAIL (22 Total)
-  CHALLENGING AREAS (17 Total)
-  CULTURAL/HISTORIC LOCATION (0 Total)
-  DESIRED DESTINATION (3 Total)
-  DESIRED LOCATION FOR CROSSWALK (1 Total)
-  SIDEWALK GAP LOCATION (5 Total)

WikiMap Results

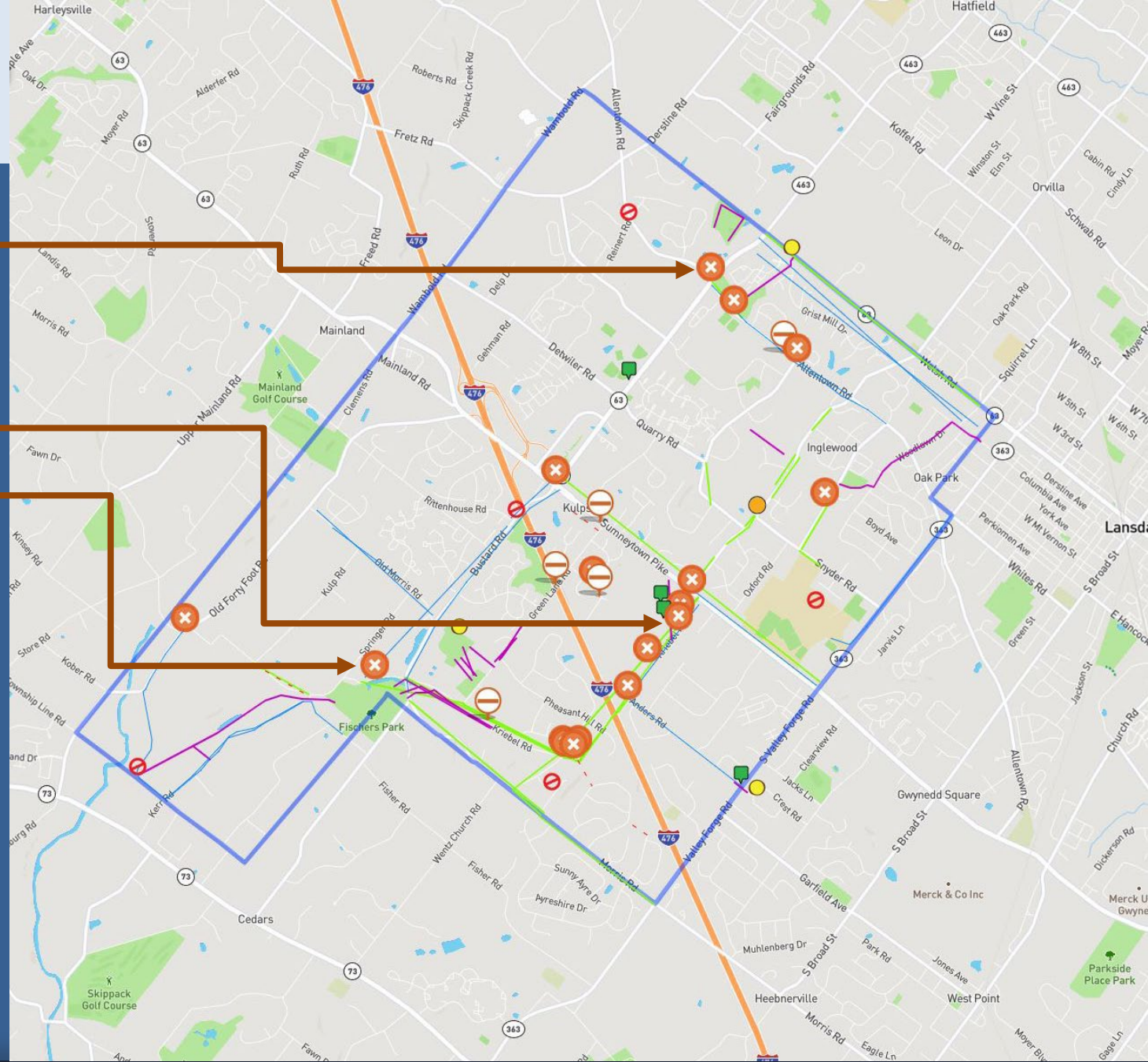
-  **BARRIERS TO CONNECTIVITY (5 total)**
-  **DESIRED BIKE ROUTE (16 Total)**
-  **DESIRED SIDEWALK (22 Total)**
-  **DESIRED TRAIL (22 Total)**
-  **CHALLENGING AREAS (17 Total)**
-  **CUTURAL/HISTORIC LOCATION (0 Total)**
-  **DESIRED DESTINATION (3 Total)**
-  **DESIRED LOCATION FOR CROSSWALK (1 Total)**
-  **SIDEWALK GAP LOCATION (5 Total)**



WikiMap Results

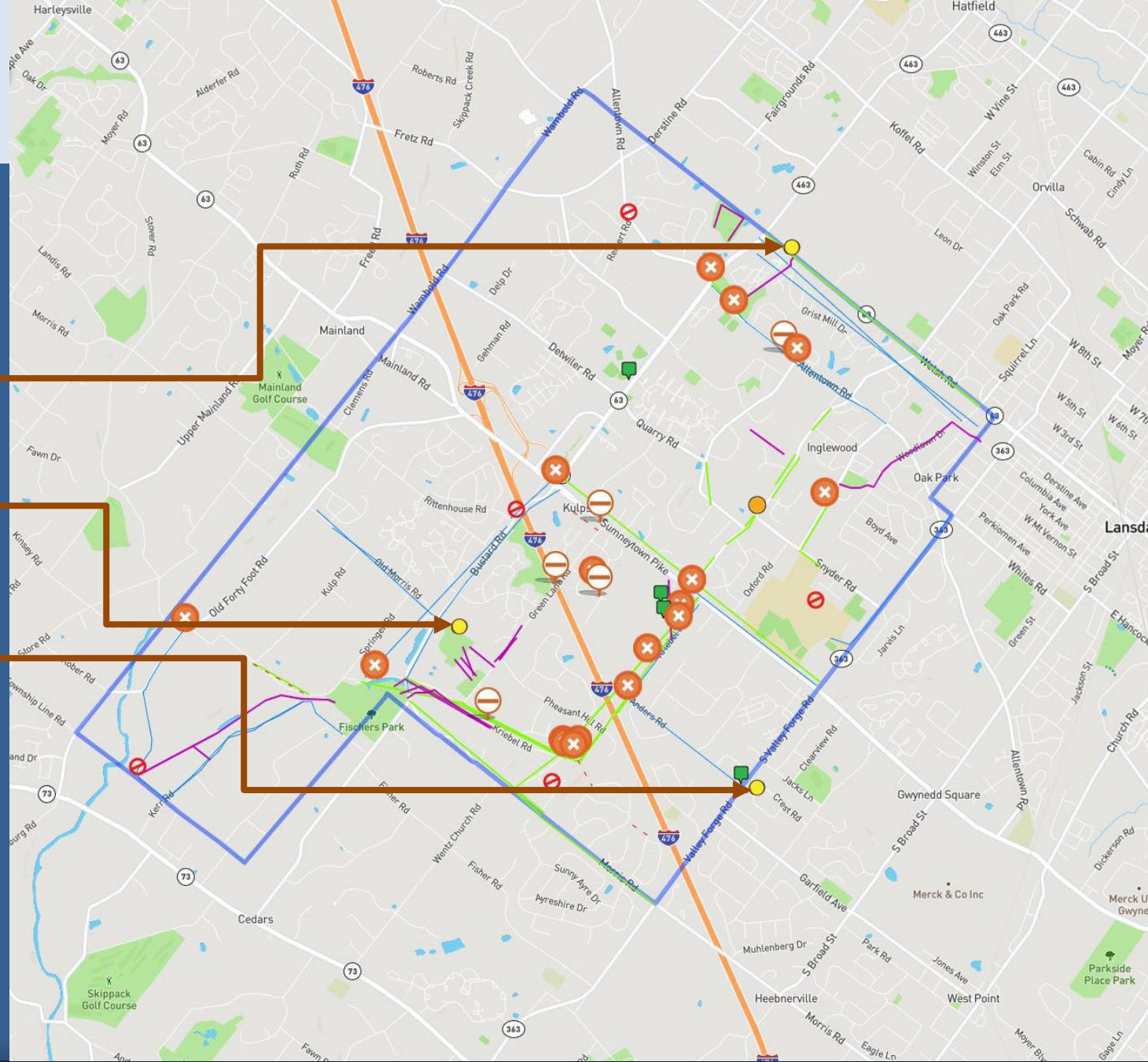
Challenging Areas

- *“The intersection at Allentown and Forty Foot is challenging to anyone not in vehicle. Traffic volume, high speeds, wide lines, missing sidewalks.”*
- *“No sidewalk, heavy traffic, narrow road”*
- *“traffic calming in this stretch of road is greatly needed. Many cyclist and pedestrians navigate this narrow roadway that has elevations that makes for some blind spots.”*



WikiMap Results Desired Destinations

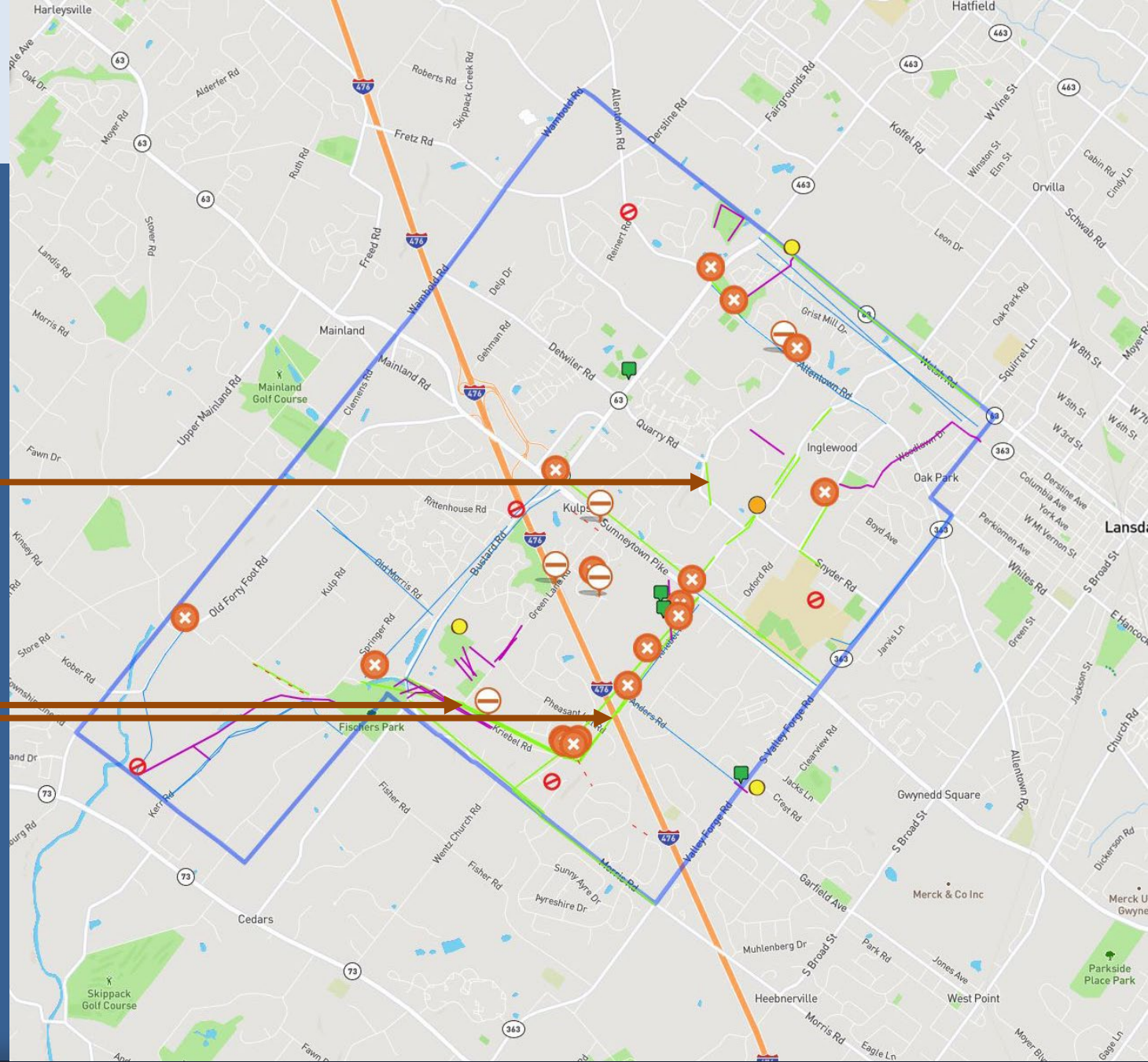
- *“Would love to be able to walk out of our neighborhood at the light and walk left to forty foot road and walk along forty foot road to Allentown road. There is are no side walks all along Jacobs wood”*
- *“General Nash Elementary School”*
- *“We need a safe and effective way to cross valley forge road to connect the neighborhoods and neighboring township”*



WikiMap Results

Desired Sidewalks

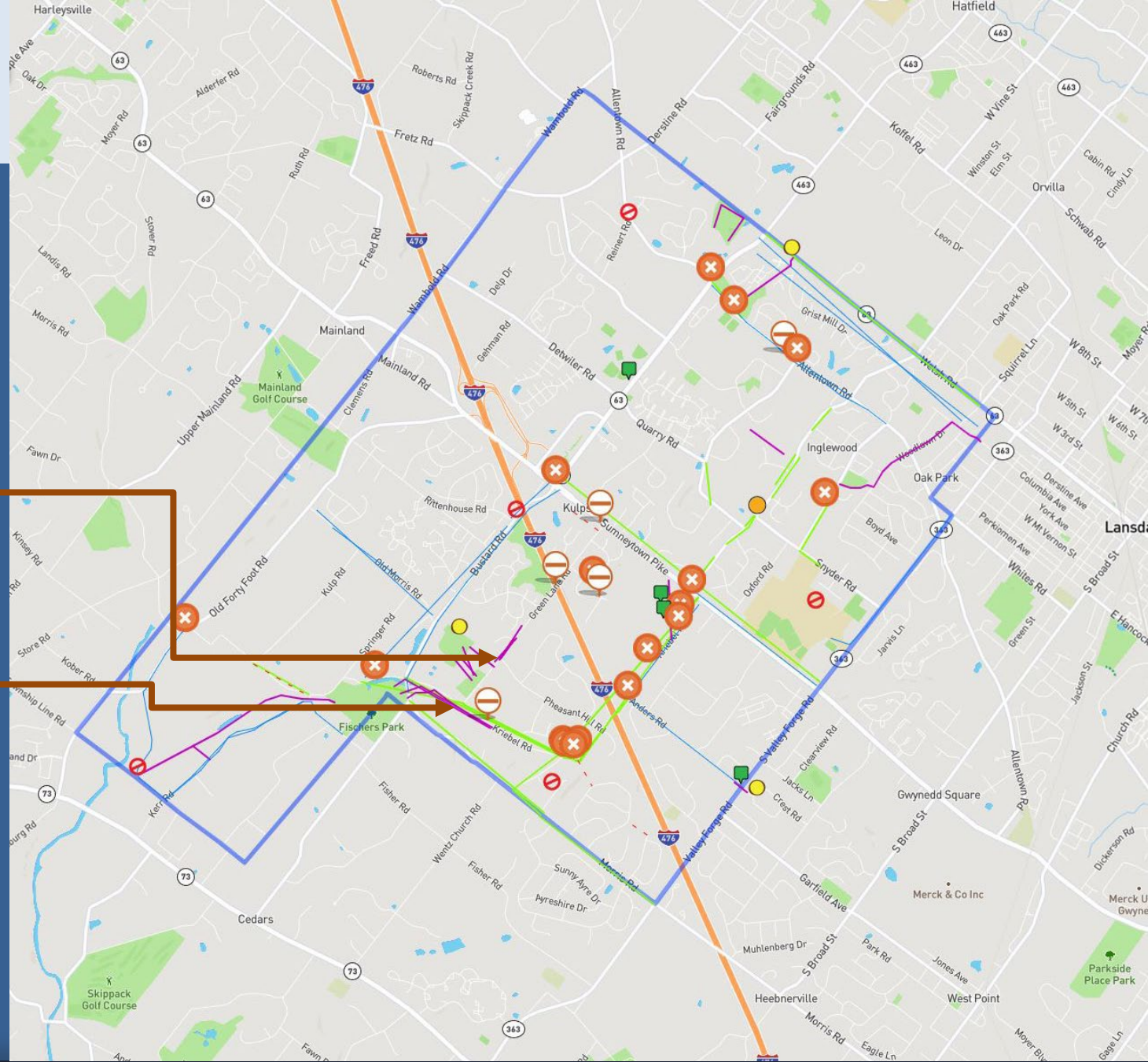
- “Sidewalk along Keeler Road”
- “Connect Kriebel Rd to Fischers Park - should be some way to reach the Park other than driving there”
- “Connect Anders”



WikiMap Results

Desired Trails

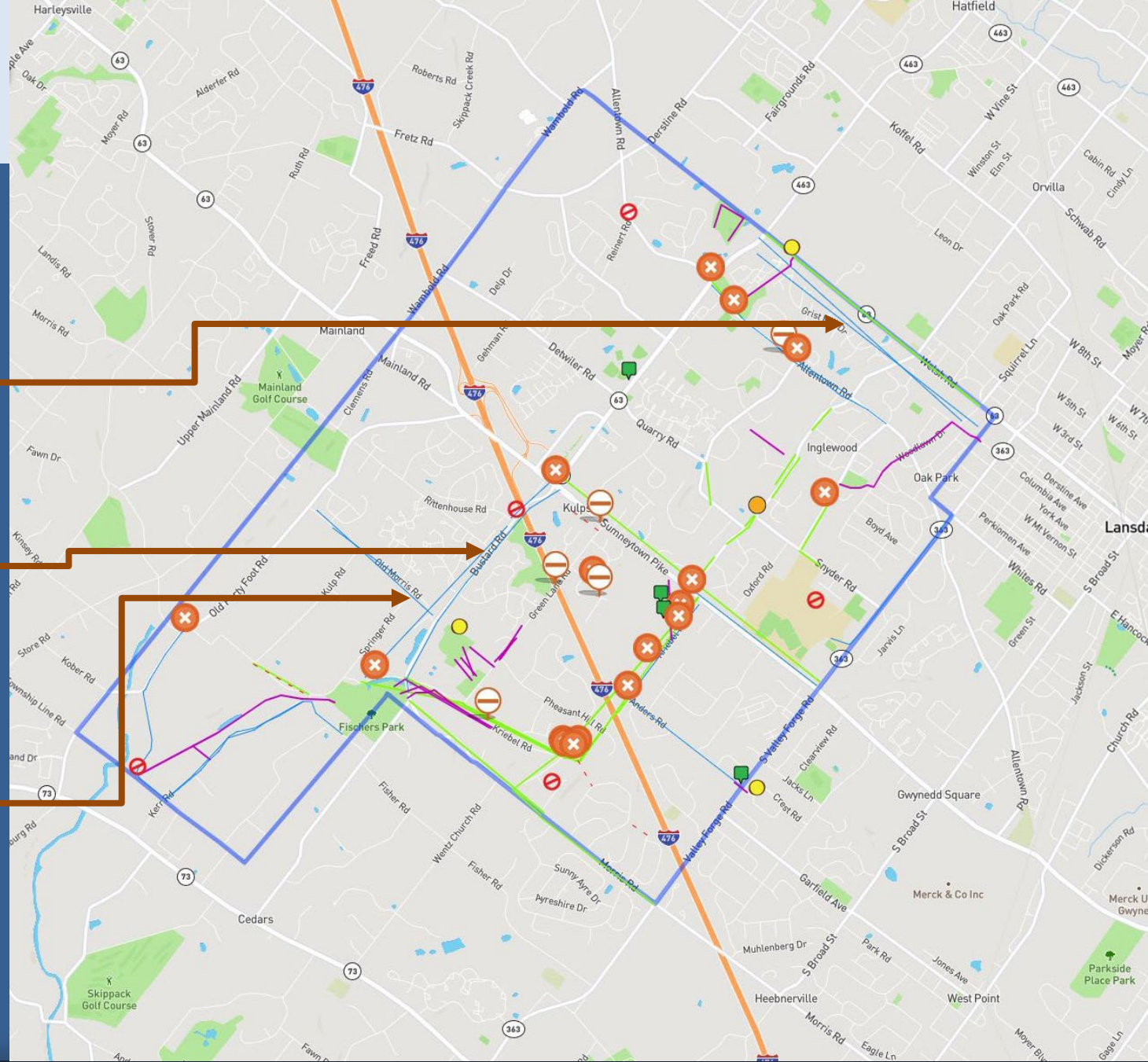
- *“Trail and pedestrian crossing completing Green Lane Road across barrier. Preferably complete the road with a pedestrian bridge next to it, this is the only Sumneytown Pike Access with a light. People using Kriebel Road making left turns is terrible with light at Troxel road blocking traffic back at morning and evening rush hours”*
- *“add additional trail along kriebel rd and walking bridge to connect to fishers park”*



WikiMap Results

Desired Bike Routes

- *“Being able to bike to the train would be good and people might take the train more instead of driving into Philly, big saver for the environment.”*
- *“This would just be a nice to have bike area, connecting firehouse park to fisher park for bikers/runners but not sure bustard rd has enough room to do that.”*
- *“This is used by bikers and runners. It’s decently safe but I could see small improvements to ensure people walking/running/biking were more safe. This is a very popular road for people to walk on.”*





Site Visit Observations





Township Pool



Morgan Log House



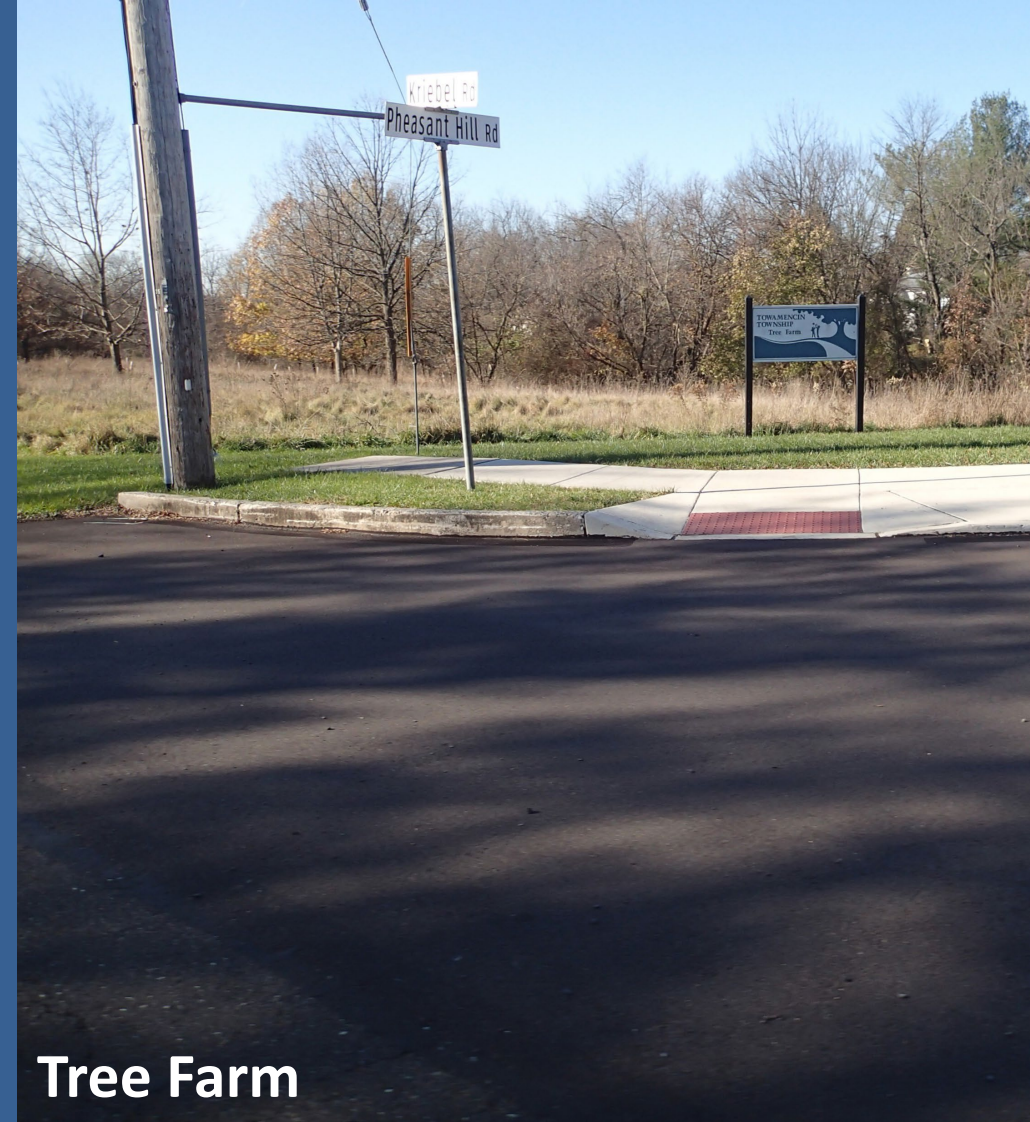
Nash Elementary



Bustard Park



Green Lane Park



Tree Farm



Kriebel Rd to Fischer's Park



Kibler Meadows



Evansburg State Park

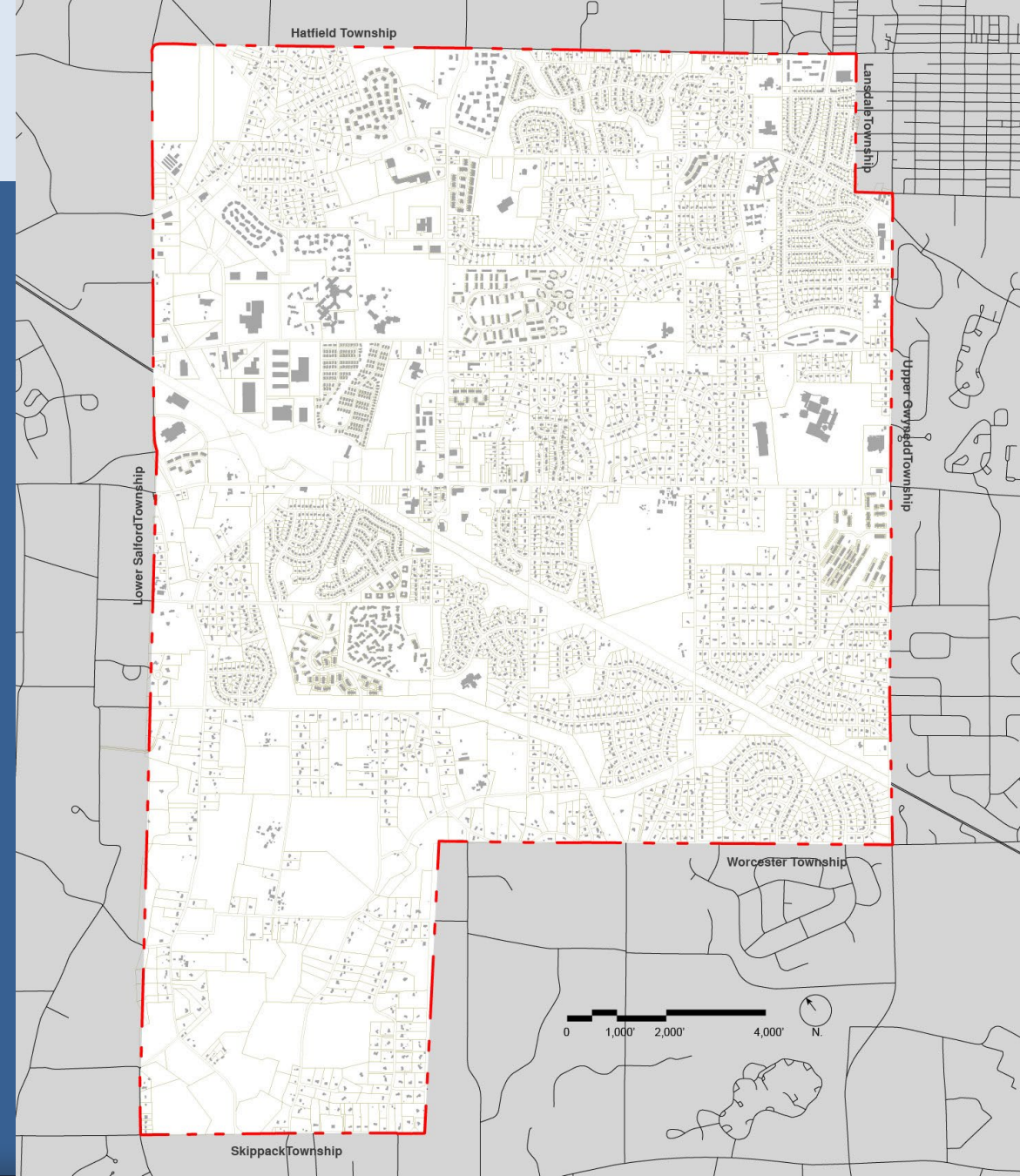


Base Mapping



Existing Conditions

Project Boundary



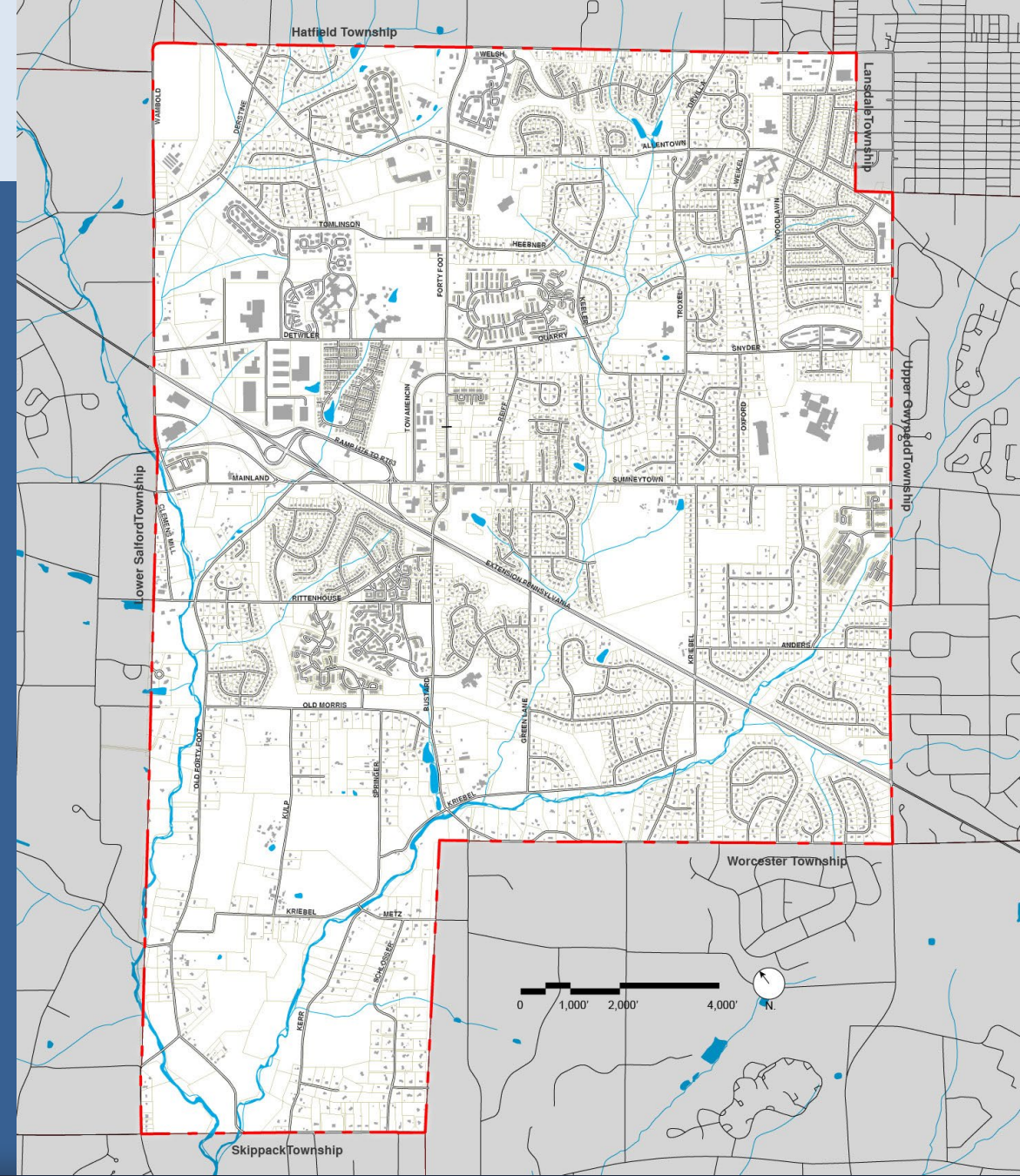
Existing Conditions

Roads



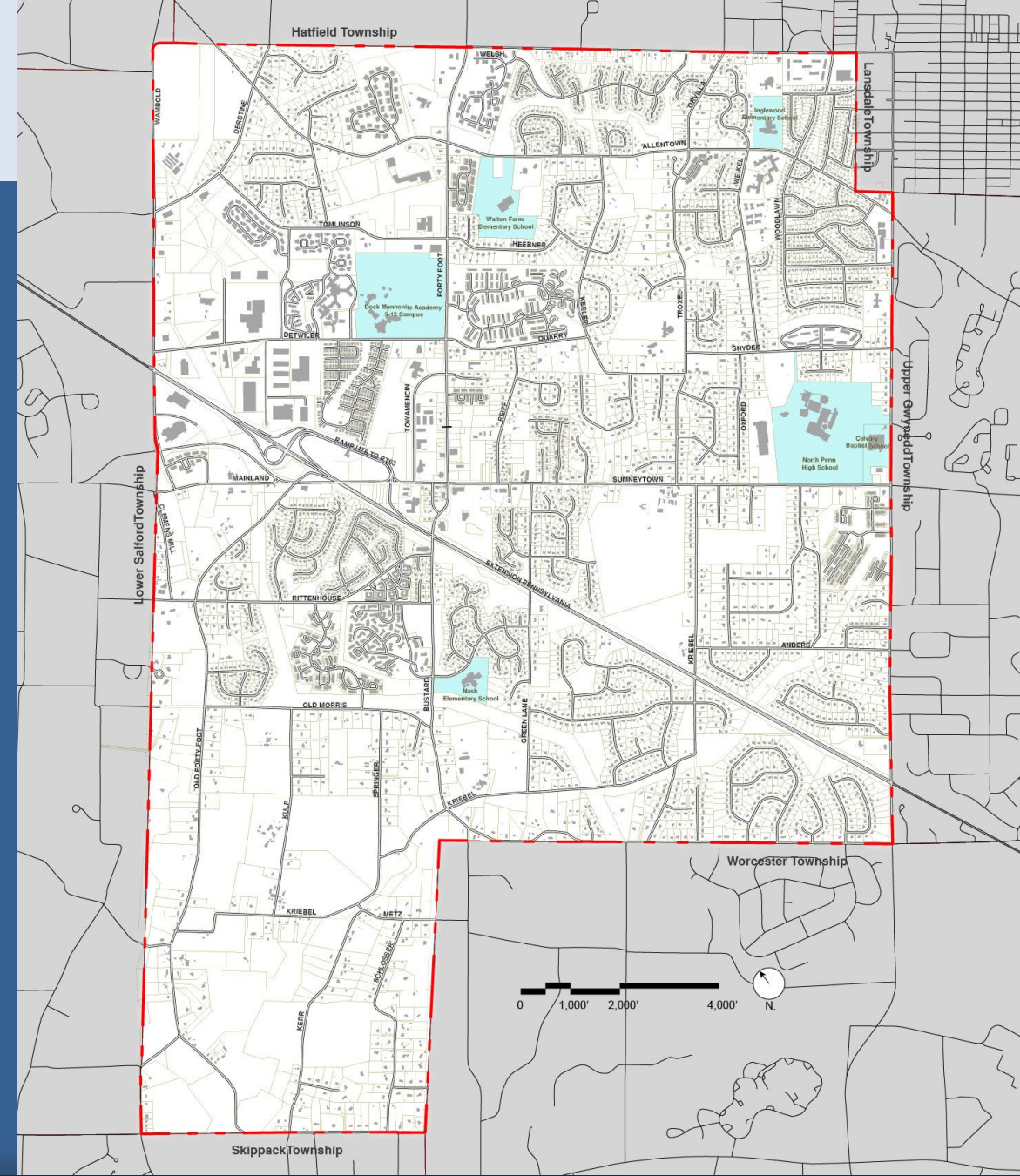
Existing Conditions

Streams and Water Bodies



Existing Conditions

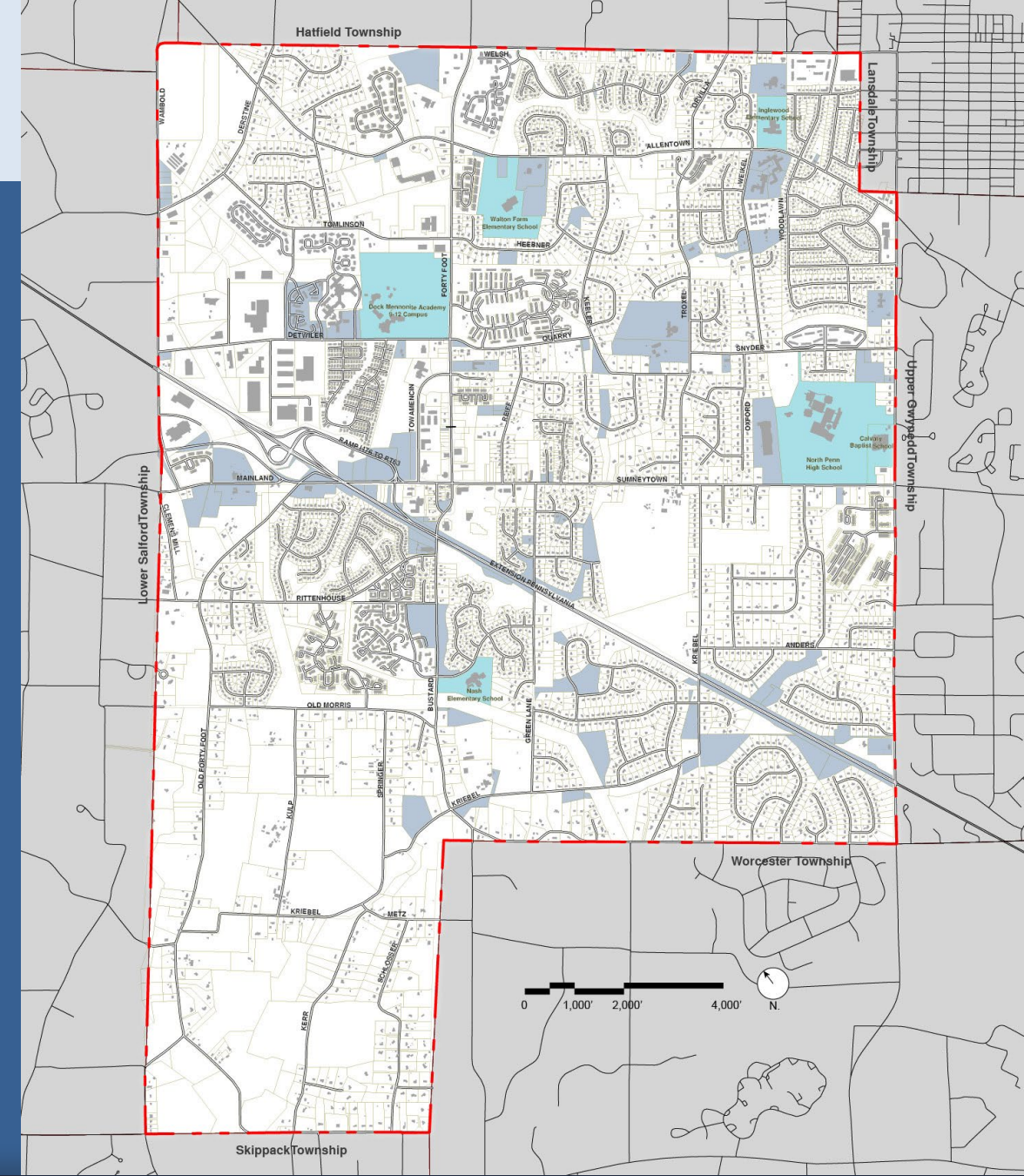
Schools



Existing Conditions

Institutional Parcels

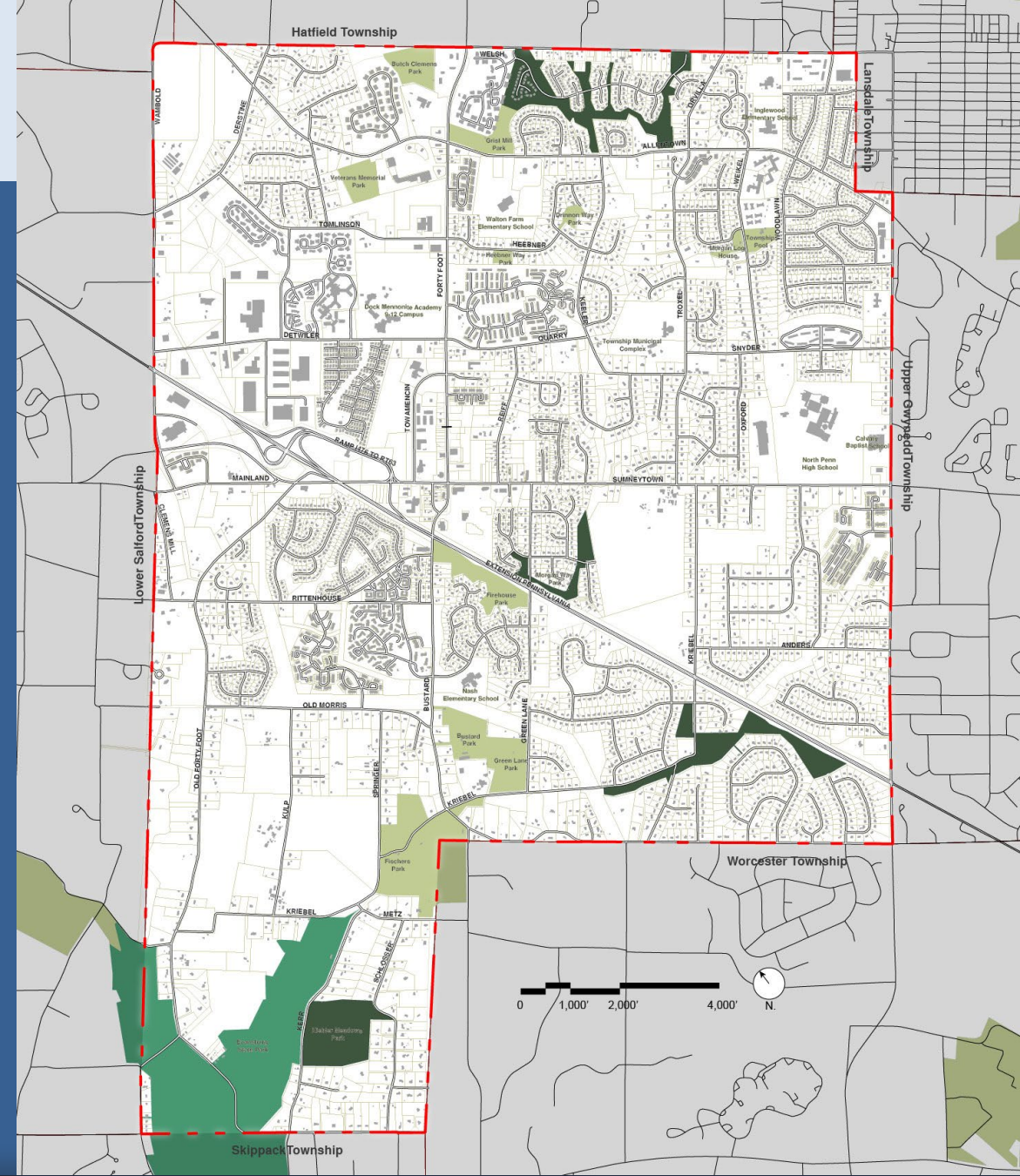
- Places of Worship
- Hospitals
- Libraries or Museums
- Community/Group Homes



Existing Conditions

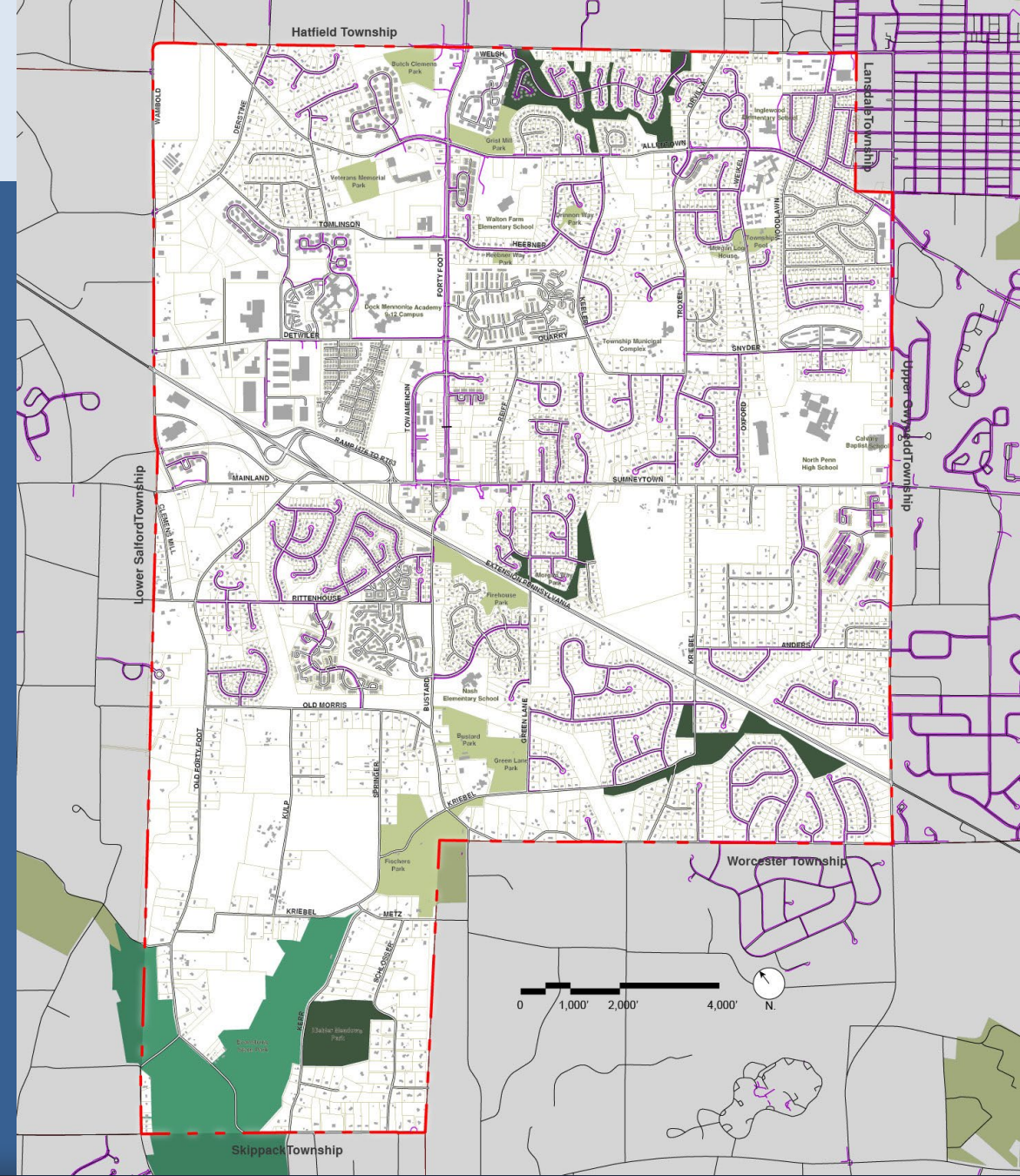
Parks

- Township Park
- Township Open/Natural Space
- State Park

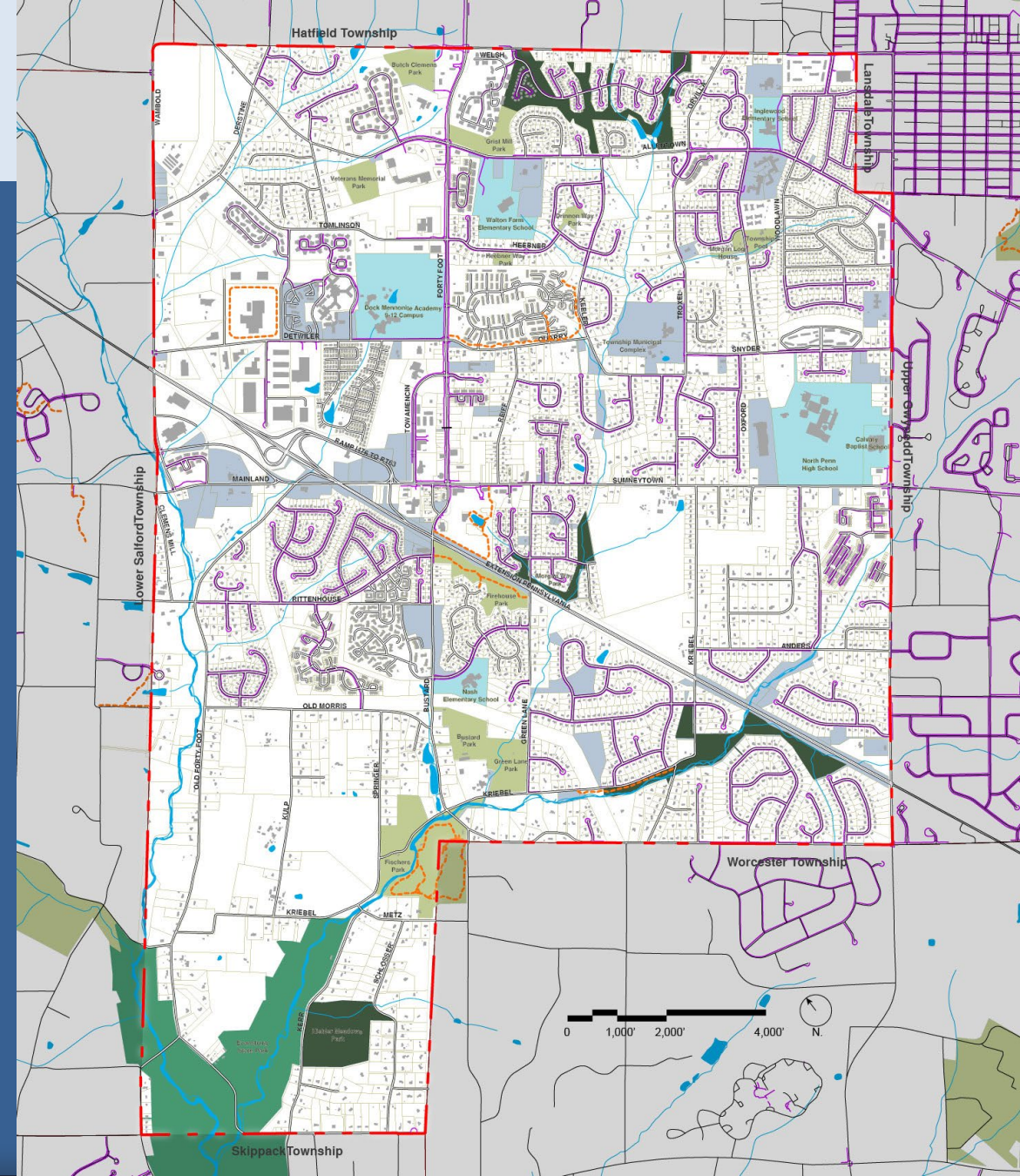


Existing Conditions

Sidewalks



Existing Conditions Overall Base Map









Analysis Mapping

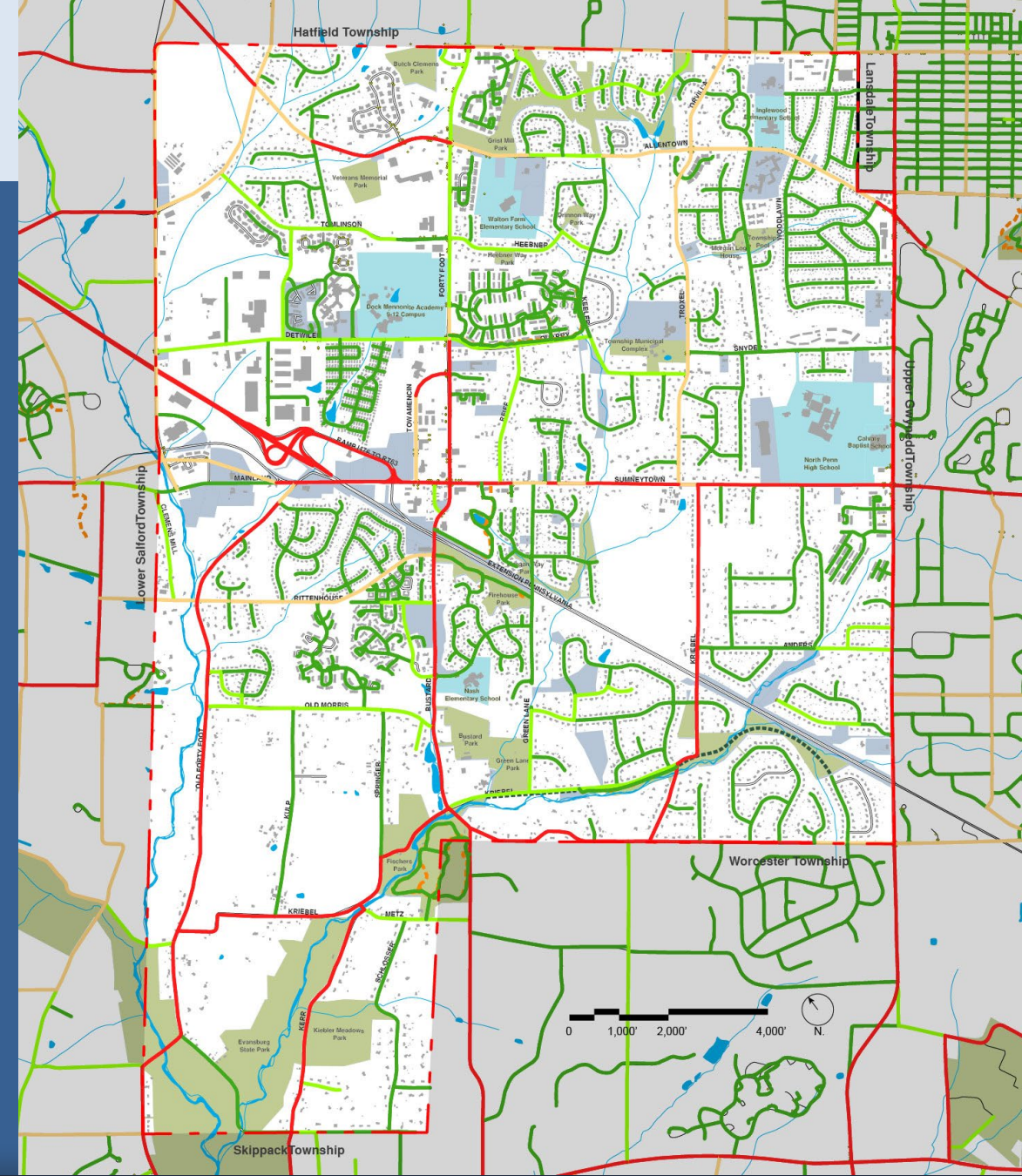


Analysis

DVRPC - Level of Traffic Stress

Level of traffic stress (LTS) is a road classification scheme based on the estimated comfort of bicyclists in the traffic stream. It is based on the number of lanes, effective vehicle speed, and the presence of bicycle facilities on the road segment.

-  LTS – 1: Comfortable for average riders
-  LTS – 2: Slightly Less Comfortable for average riders
-  LTS – 3: Comfortable for Experienced Riders
-  LTS – 4: Less comfortable, even for experienced riders

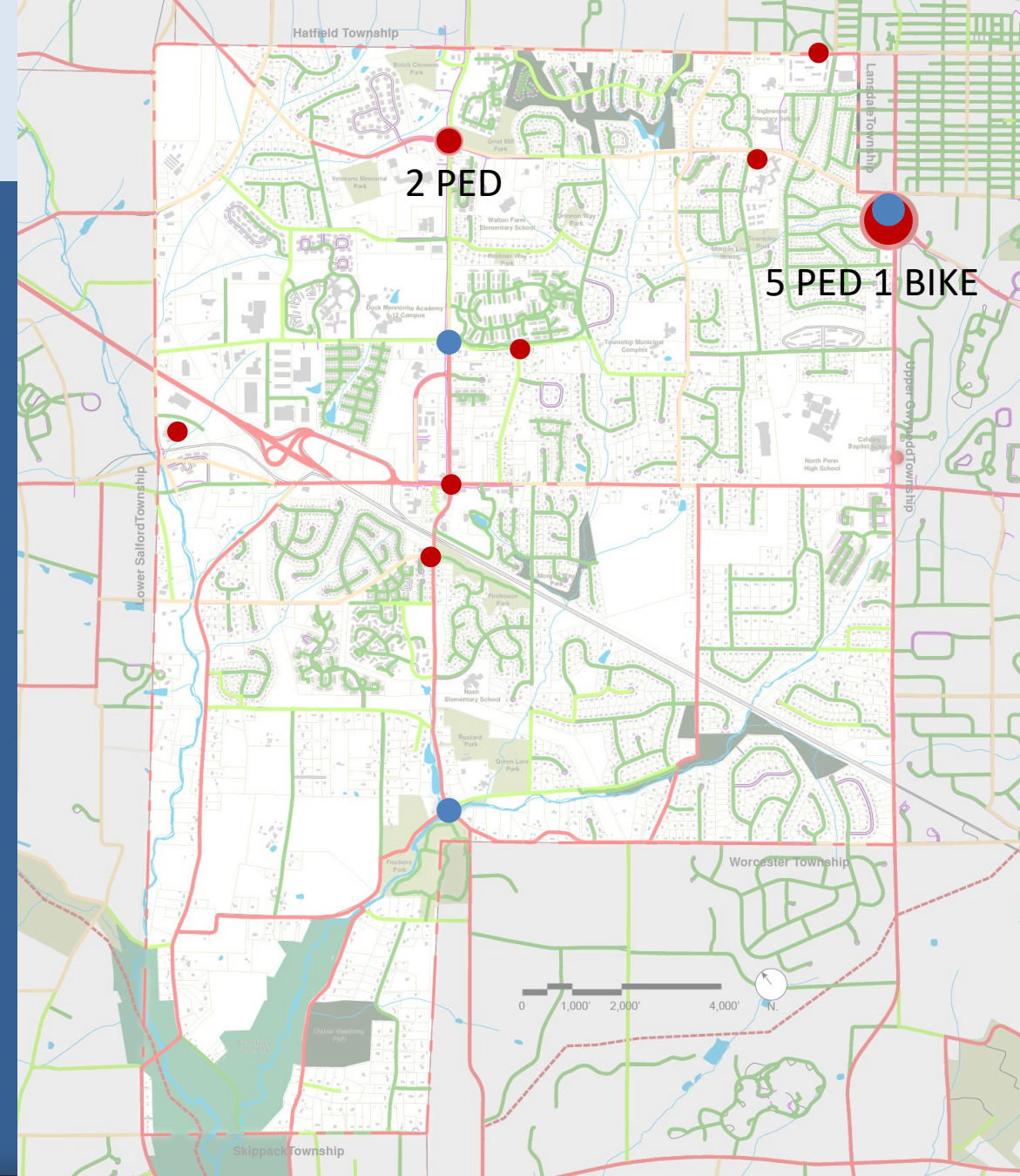


Analysis

Pedestrian and Cyclist Accident Data 2018–2022

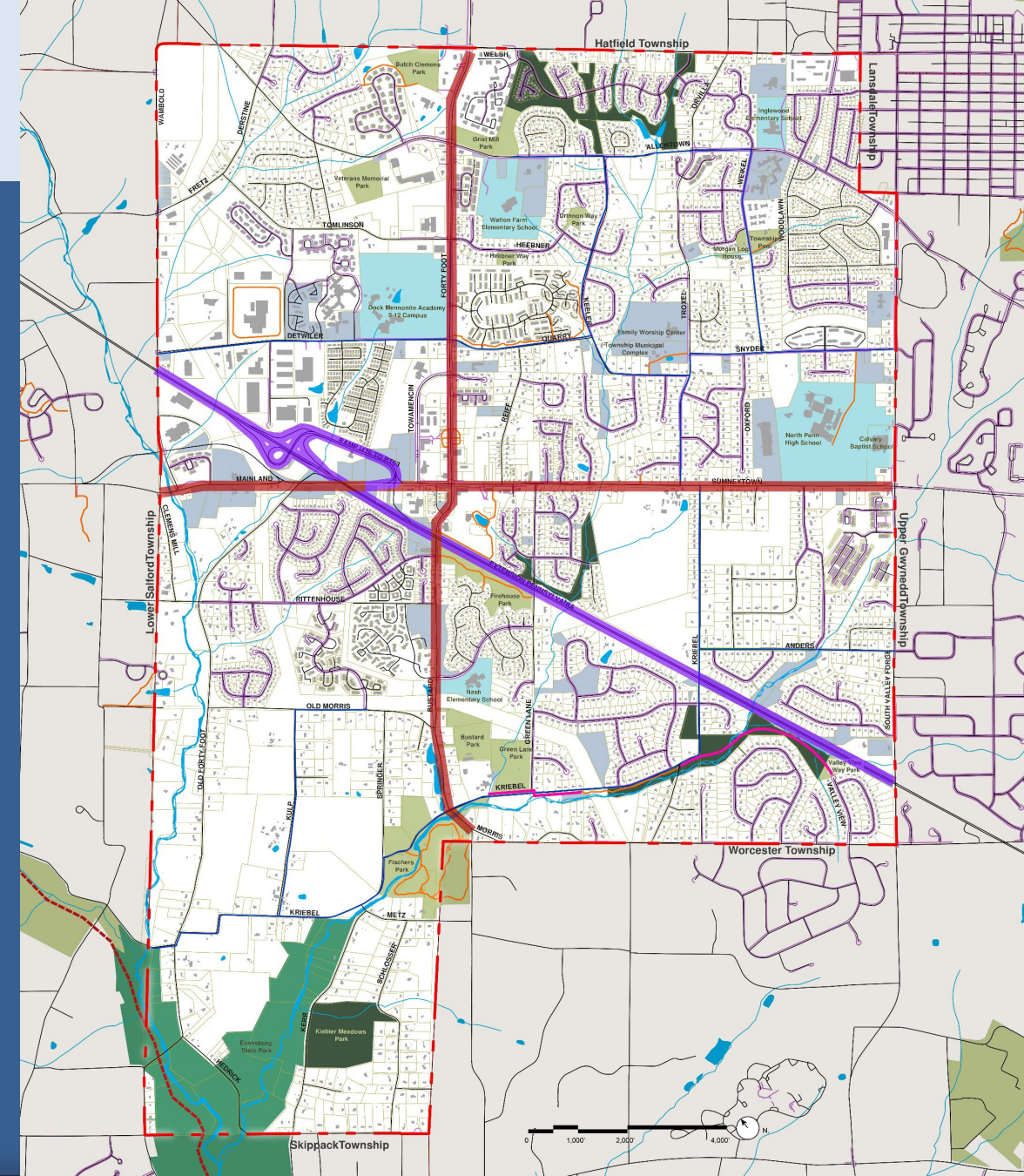
Report Date / Time	Location & Address	Accident Type
8/31/2022 8:07	SUMNEYTOWN PIKE/BUSTARD RD LANSDALE PA 19446, TOWAMENCIN TWP, PA	Vehicle vs Pedestrian
10/3/2021 14:11	ALLENTOWN RD/FORTY FOOT RD TWMC, TOWAMENCIN TWP, PA	Vehicle vs Pedestrian
7/11/2021 8:26	QUARRY RD/REIFF RD TWMC, TOWAMENCIN TWP, PA	Vehicle vs Pedestrian
6/2/2021 17:14	S VALLEY FORGE RD/ALLENTOWN RD, LANSDALE, PA 19446	Vehicle vs Pedestrian
5/26/2021 10:50	VALLEY FORGE RD/ALLENTOWN RD TWMC, TOWAMENCIN TWP, PA	Vehicle vs Pedestrian
12/27/2020 8:34	1290 ALLENTOWN RD, WEST, LANSDALE, PA 19446	Vehicle vs Pedestrian
10/16/2020 13:41	BUSTARD RD & RITTENHOUSE RD, HARLEYSVILLE, PA 19438	Vehicle vs Pedestrian
10/9/2020 0:18	WELSH RD, LANSDALE, PA 19446	Vehicle vs Pedestrian
7/8/2020 15:42	DETWILER RD/FORTY FOOT RD TWMC, TOWAMENCIN TWP, PA	Vehicle vs Bike
8/13/2019 11:34	VALLEY FORGE RD/ALLENTOWN RD TWMC, TOWAMENCIN TWP, PA	Vehicle vs Pedestrian
7/17/2019 15:42	S VALLEY FORGE RD & ALLENTOWN RD, LANSDALE, PA 19446	Vehicle vs Pedestrian
7/12/2019 14:22	1551 VALLEY FORGE RD, UPPER GWYNEDD TWP, PA	Vehicle vs Pedestrian
6/22/2019 11:54	BUSTARD RD/KRIEBEL RD TWMC, TOWAMENCIN TWP, PA	Vehicle vs Bike
6/15/2019 15:02	ALLENTOWN RD & S VALLEY FORGE RD, LANSDALE, PA 19446	Vehicle vs Bike
4/26/2019 16:40	780 VALLEY FORGE RD, TOWAMENCIN TWP, PA	Vehicle vs Bike
3/11/2019 22:57	1501 INDUSTRIAL BLVD, TOWAMENCIN TWP, PA	Vehicle vs Pedestrian
9/28/2018 14:47	850 VALLEY FORGE RD, TOWAMENCIN TWP, PA	Vehicle vs Pedestrian

● Vehicle vs Pedestrian ● Vehicle vs Bike



Analysis Barriers

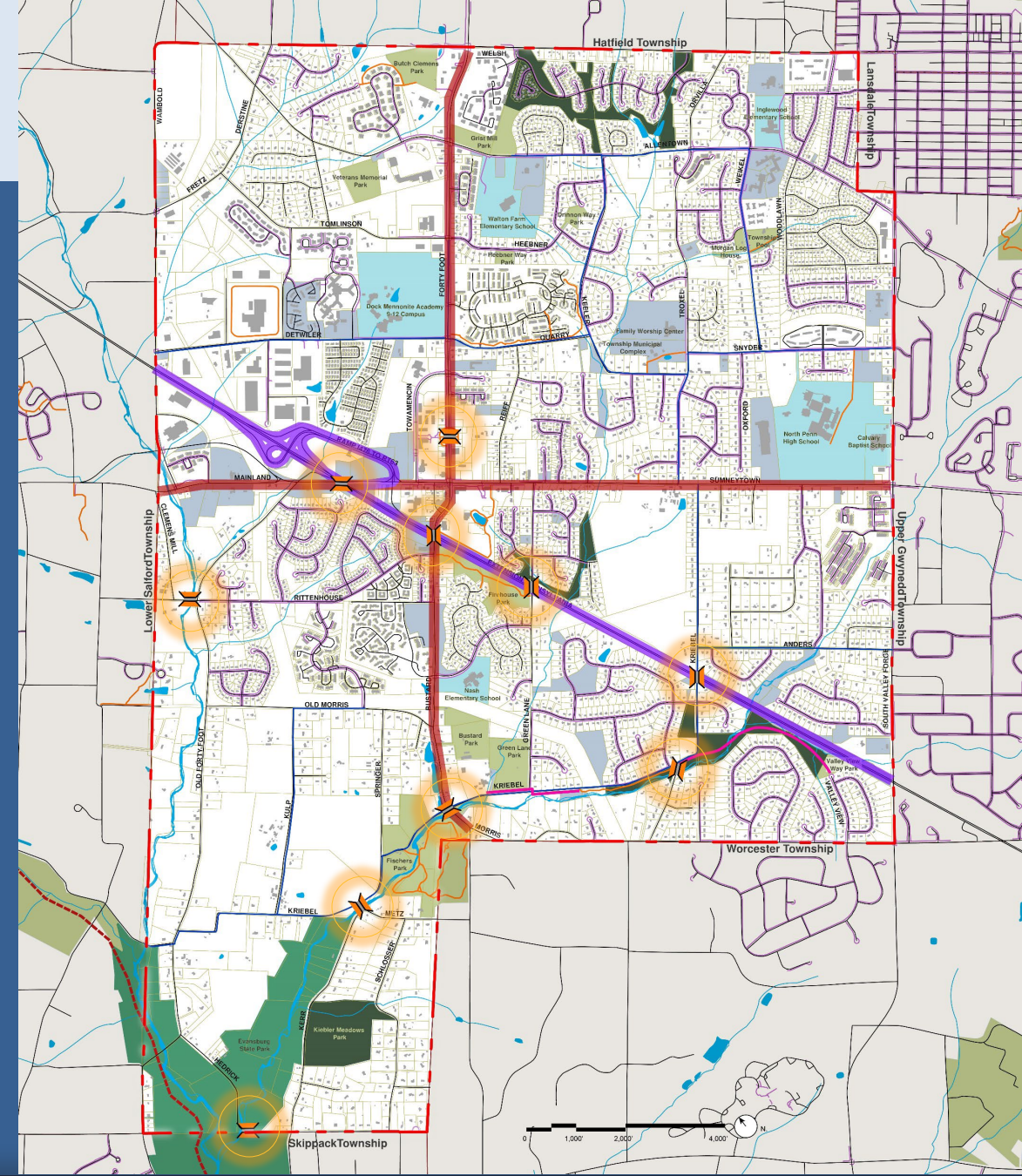
- Pennsylvania Turnpike
- Sumneytown Pike
- Forty Foot Road
- Bustard Road



Analysis

Bridges/Underpasses

- Over the Turnpike and waterways
- These can be pinch points for cyclists and pedestrians

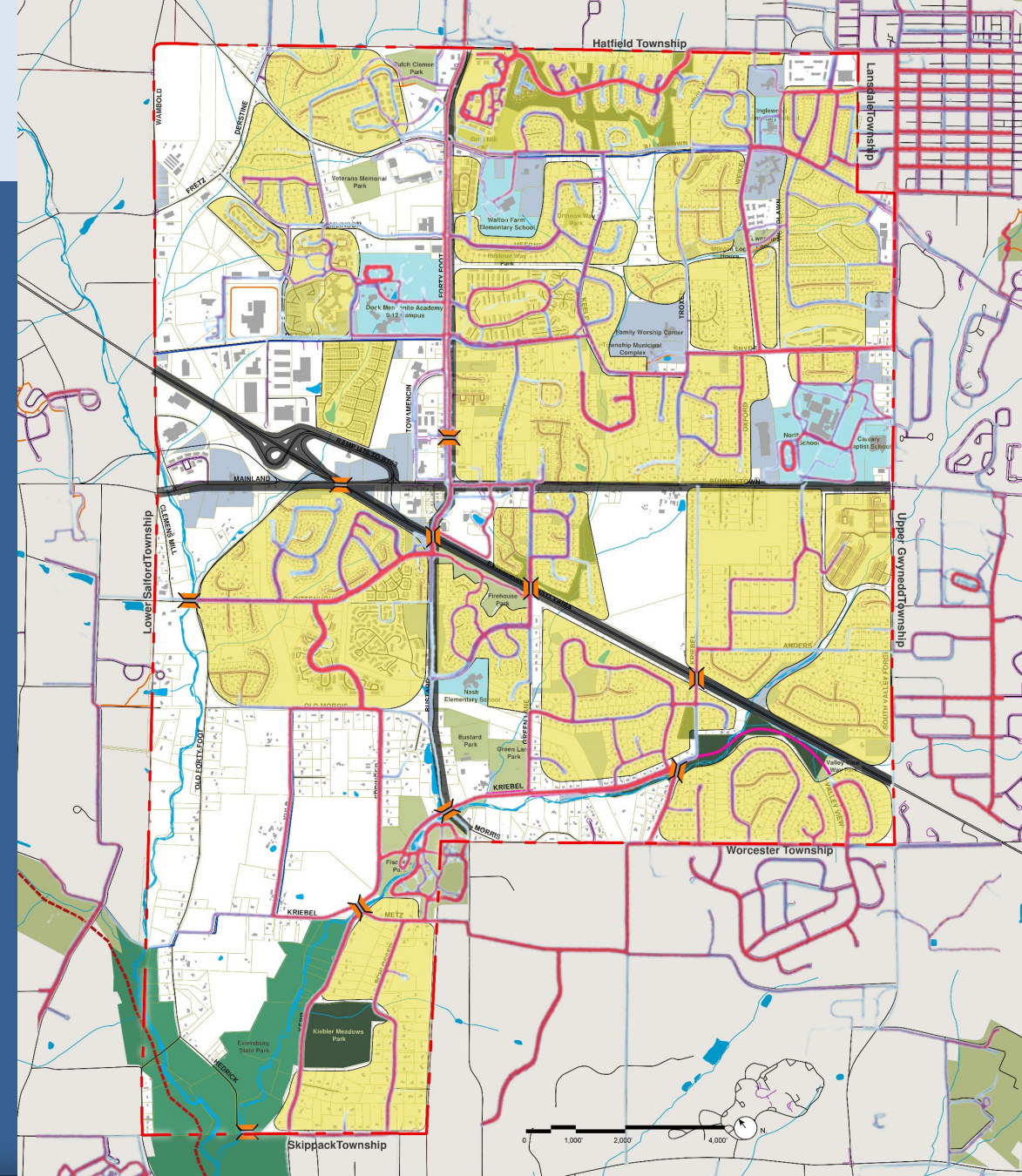
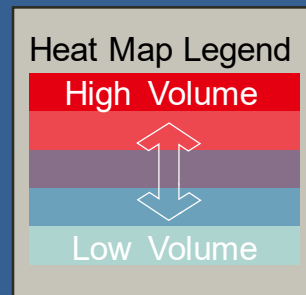


Analysis

STRAVA RUN

- Where are people walking /running to between neighborhoods?

Strava is a social network for athletes to track exercise. The heatmap shows 'heat' made by aggregated, public activities over the last year. The heatmap is updated monthly. Activity that athletes mark as private is not visible.

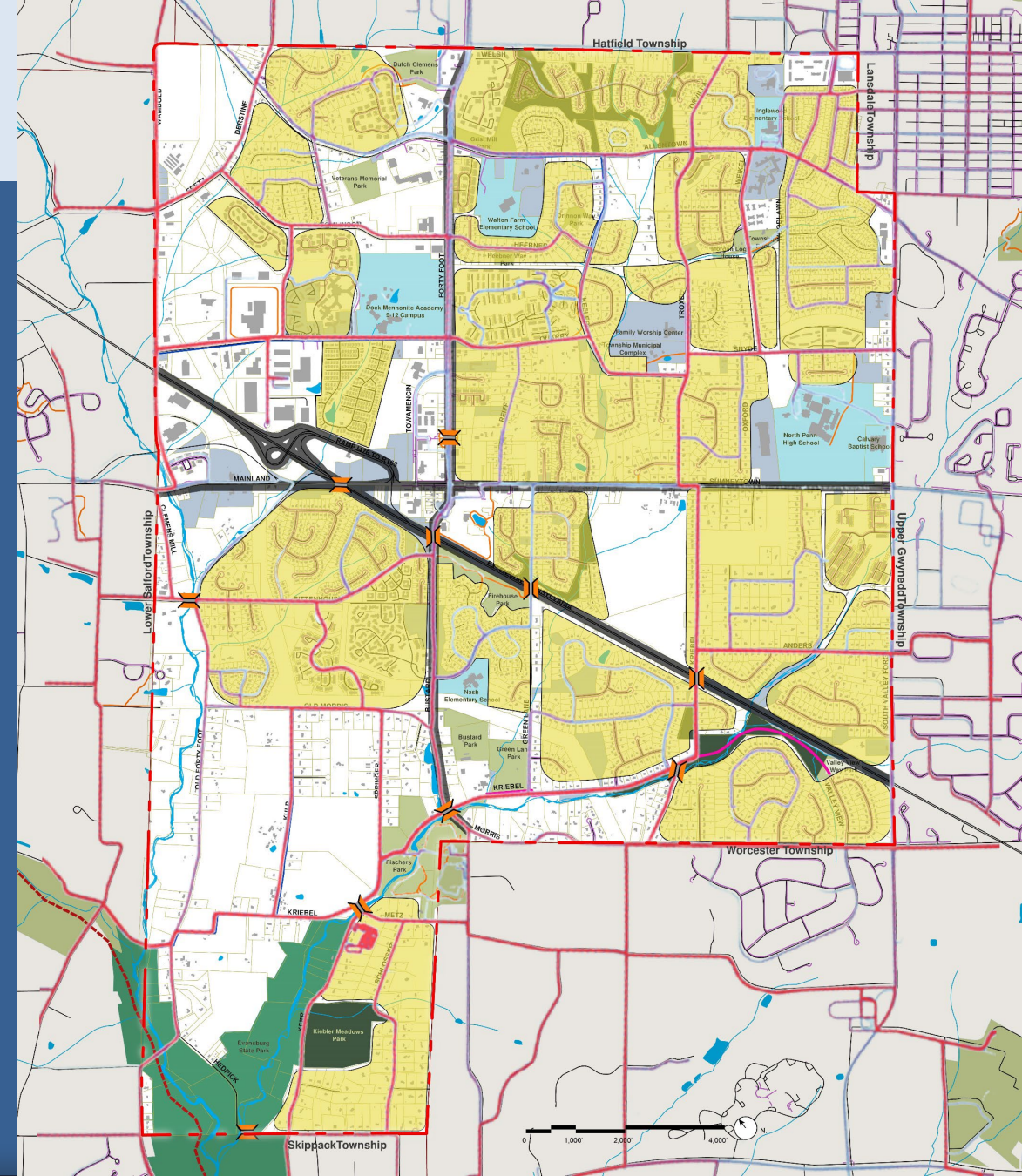
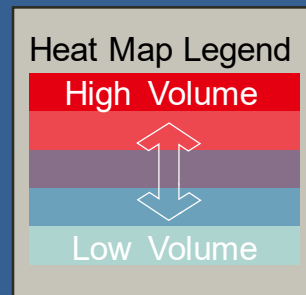


Analysis

STRAVA RIDE

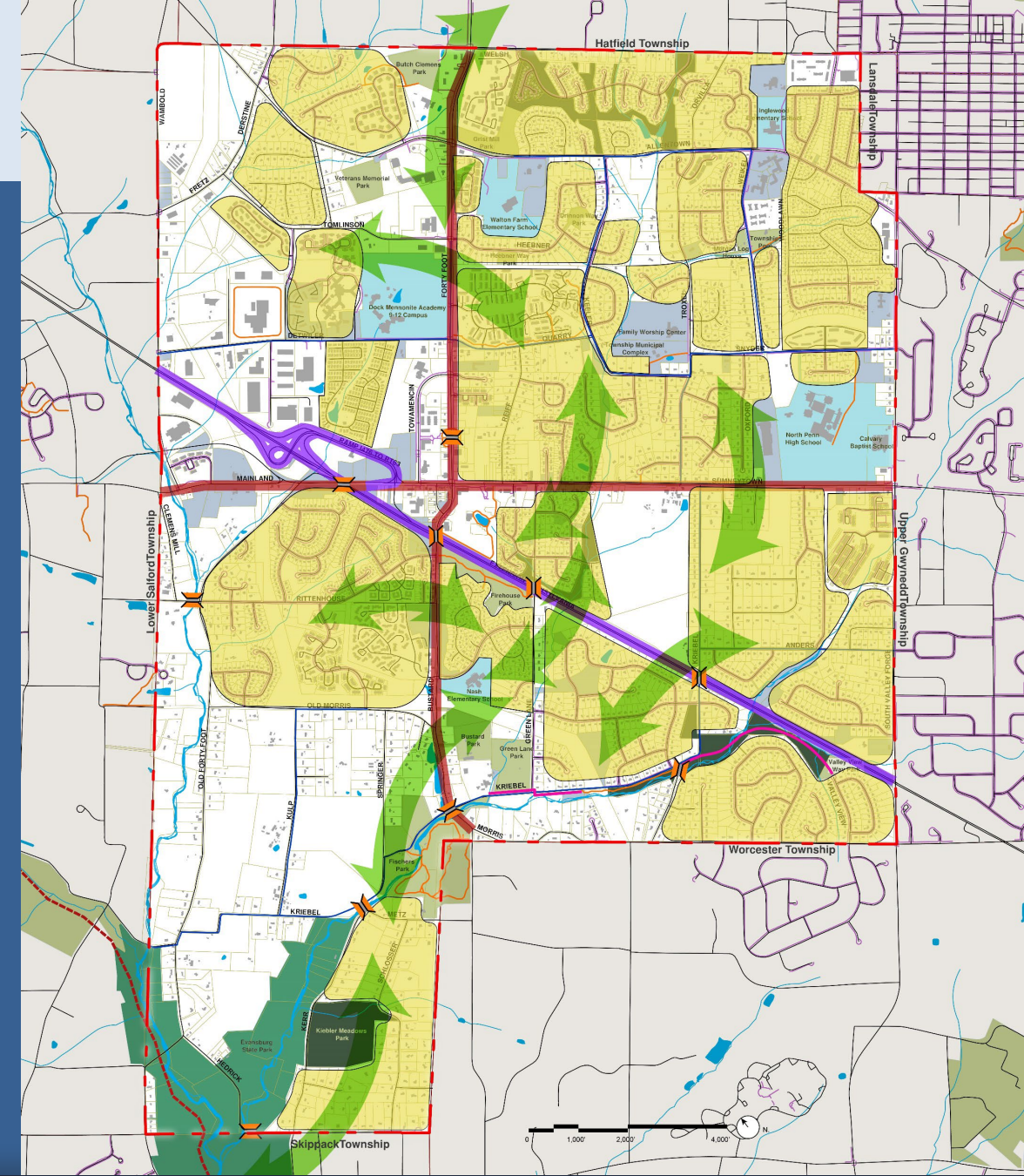
- Where are people biking to between neighborhoods?

Strava is a social network for athletes to track exercise. The heatmap shows 'heat' made by aggregated, public activities over the last year. The heatmap is updated monthly. Activity that athletes mark as private is not visible.



Analysis Overview

- Review where neighbors can connect to destinations:
 - Public Transportation
 - Schools
 - Commercial Areas
 - Underserved Areas
 - Parks


















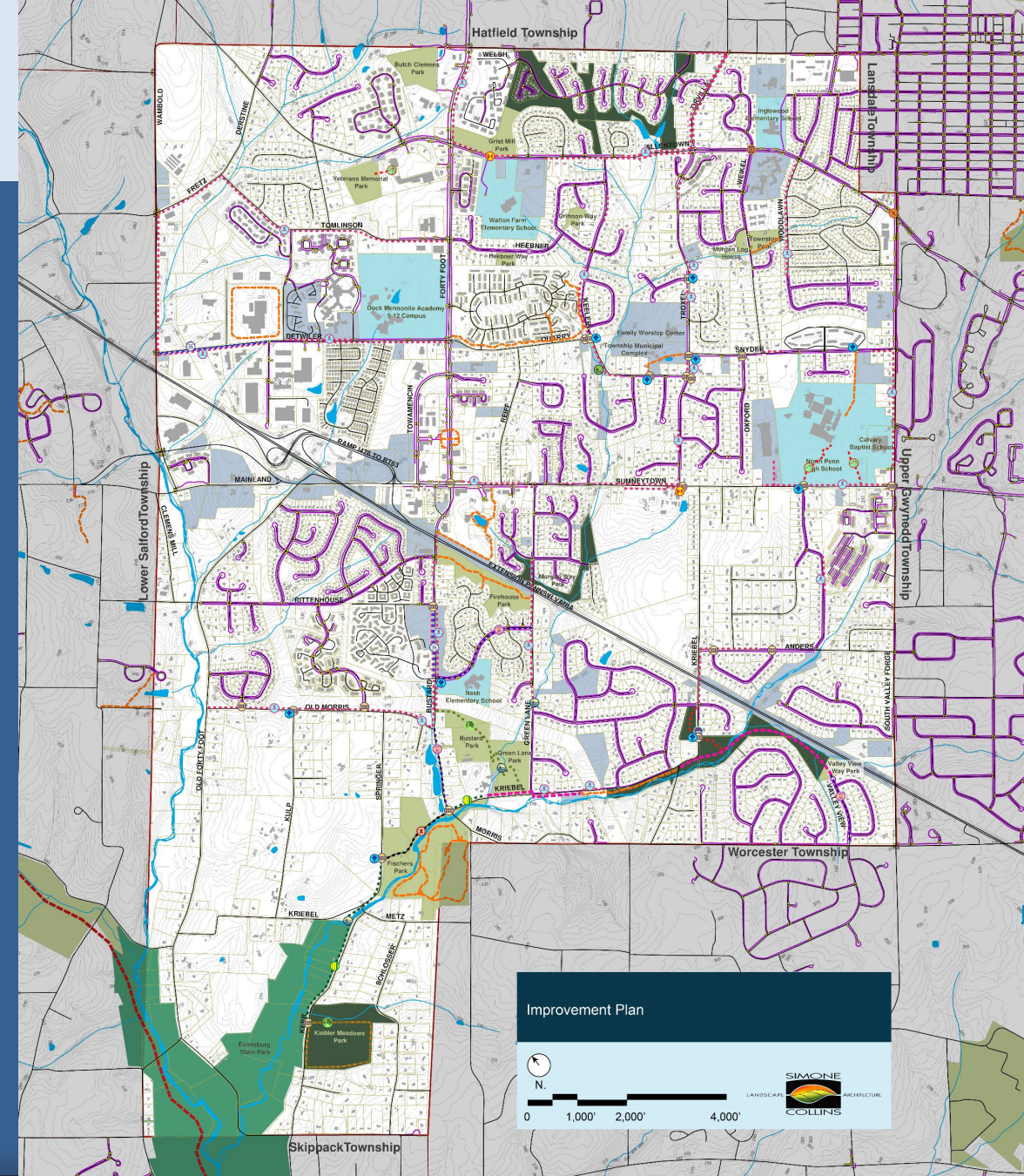


Improvement Toolbox



Improvement Toolbox

-  Sidewalk
-  Crosswalk
-  Decorative Crosswalk
-  Speed Cushion
-  Rapid Flashing Beacon
-  Hand Man
-  Pedestrian Refuge Island
-  Multi-Use Trail
-  Side Path
-  Sharrows
-  Bicycle Lane
-  Road/Lane Closure
-  Trail Bridge
-  Pocket Park
-  Connection To Adjacent Townships



Improvement Toolbox – How it works



Improvement Toolbox – How it works



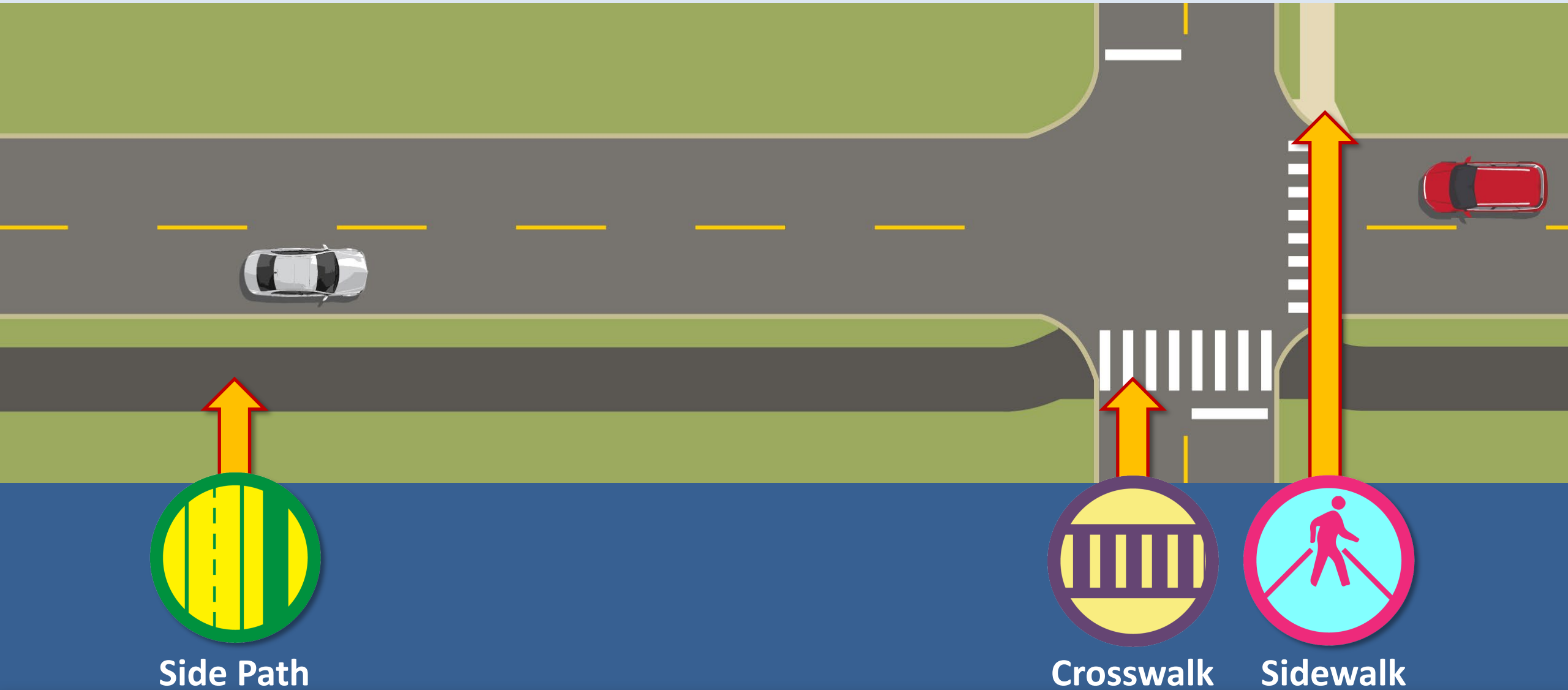
Improvement Toolbox – How it works



Side Path

Sidewalk

Improvement Toolbox – How it works

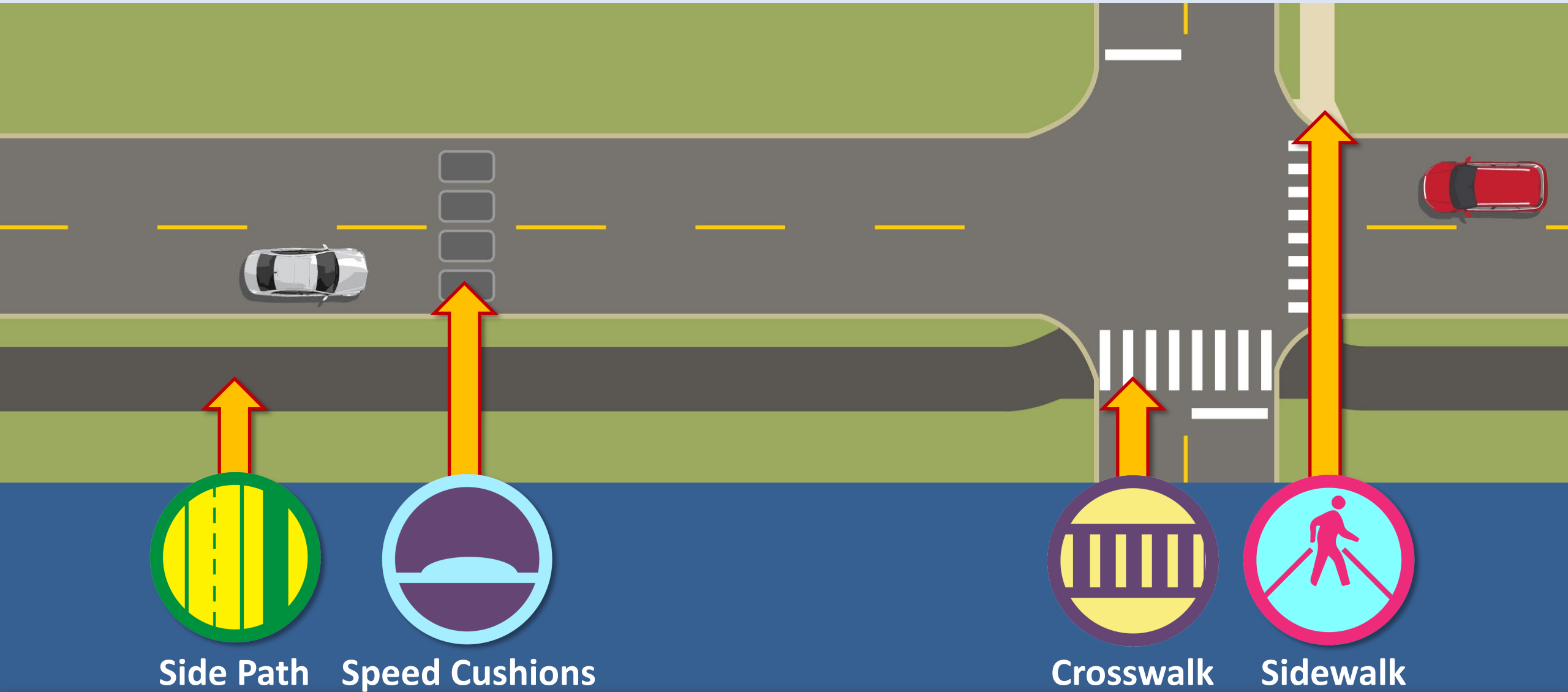


Side Path

Crosswalk

Sidewalk

Improvement Toolbox – How it works



Side Path

Speed Cushions

Crosswalk

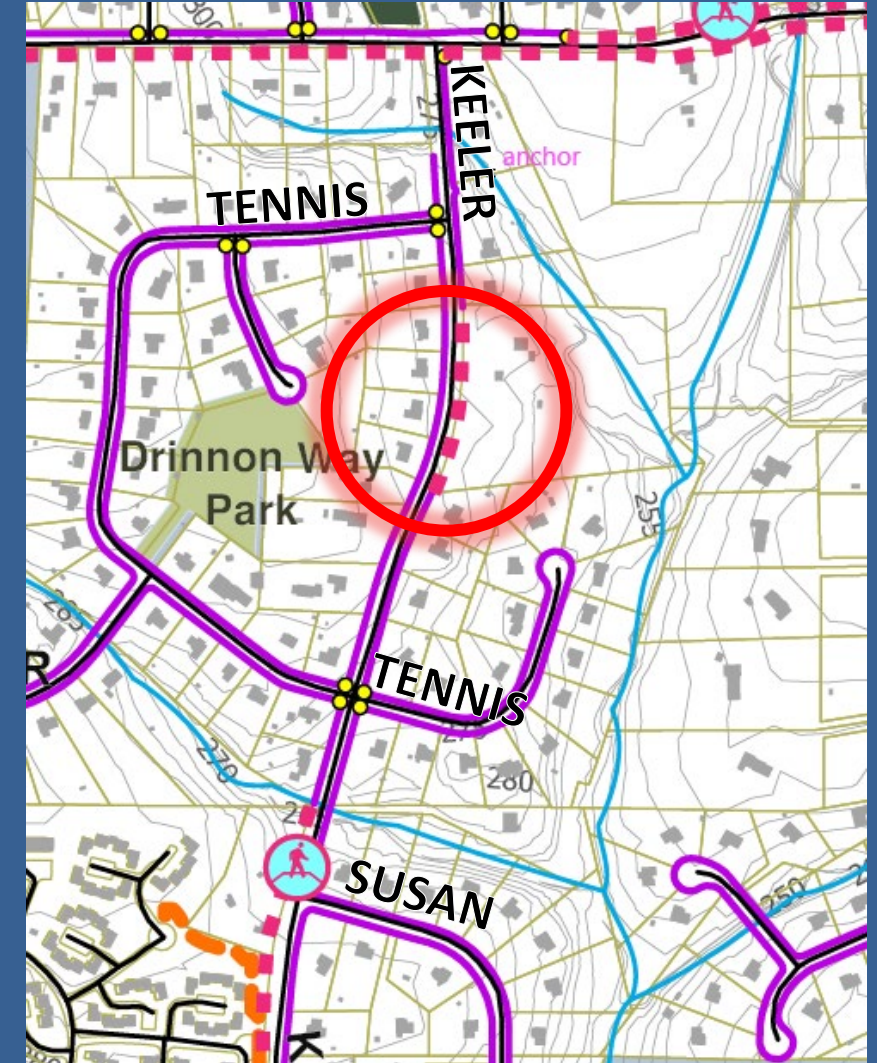
Sidewalk



Sidewalks



Sidewalk Gap on Keeler Road

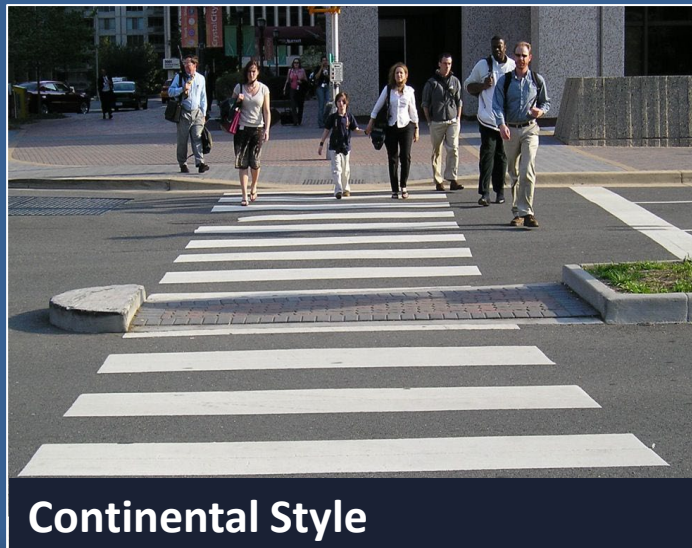




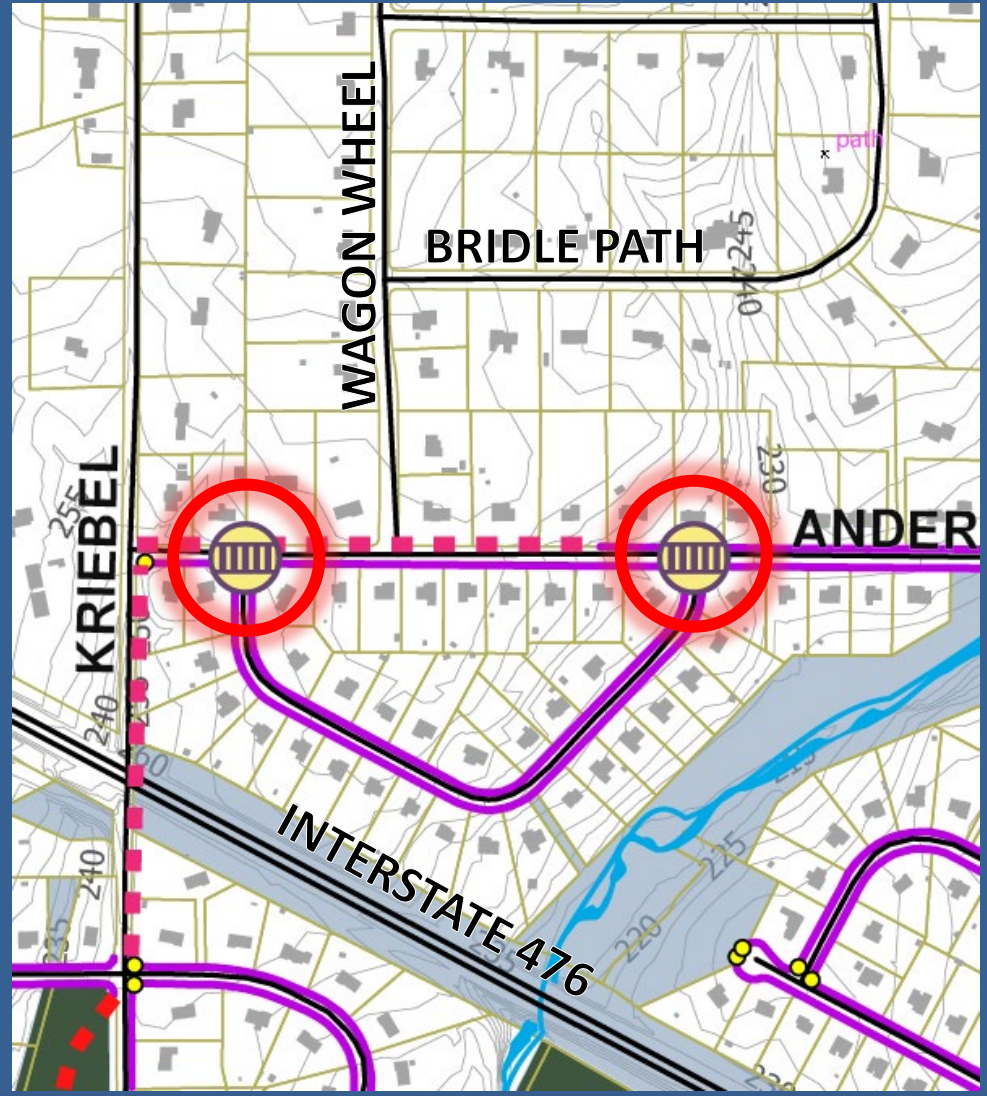
Crosswalks



Decorative Style



Continental Style



Anders Road and Flintlock Circle



Speed Cushion

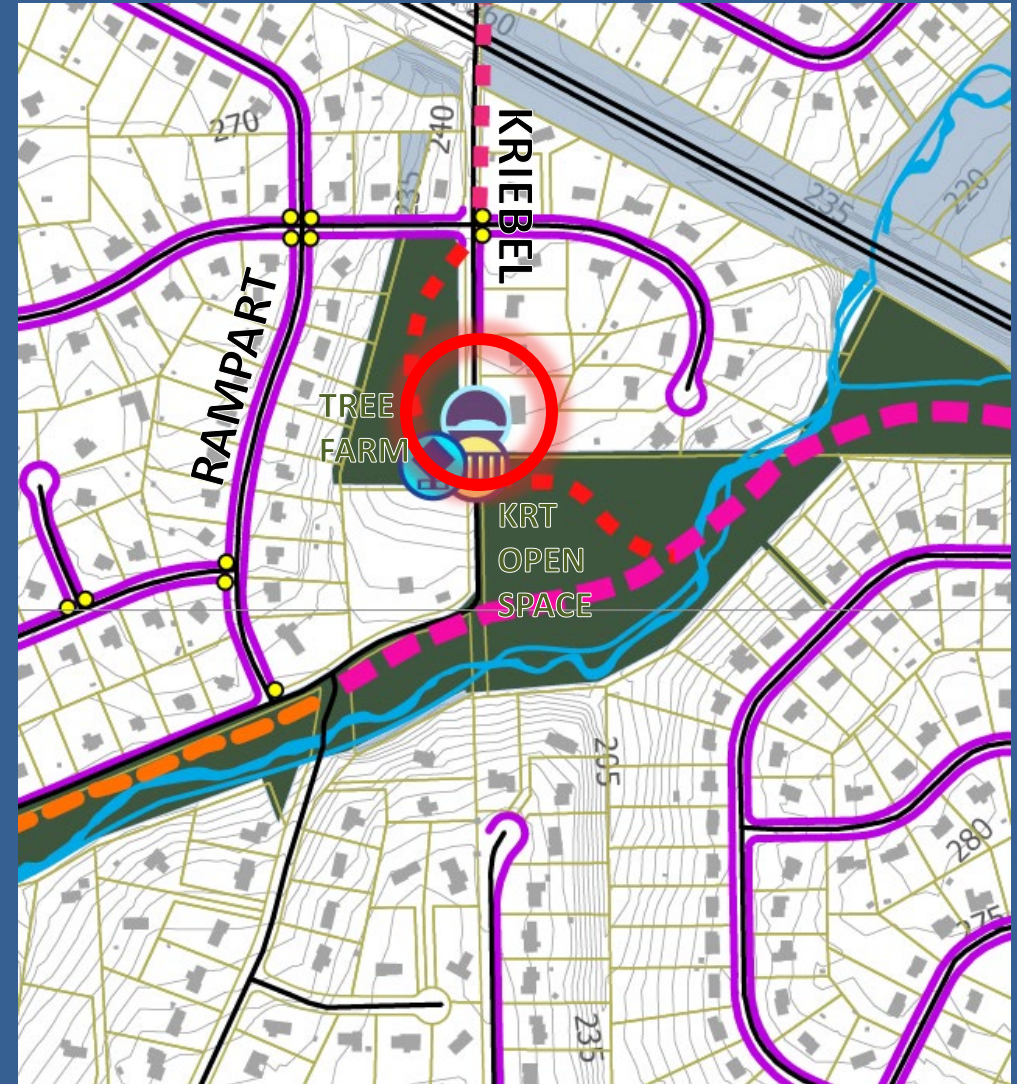
- Removable
- Allows for emergency vehicles to pass
- Slows down traffic so pedestrians can cross safely between the Tree Farm and Kriebel Road Trail.



Kriebel Road



Speed Cushion Example





Rapid Flashing Beacon

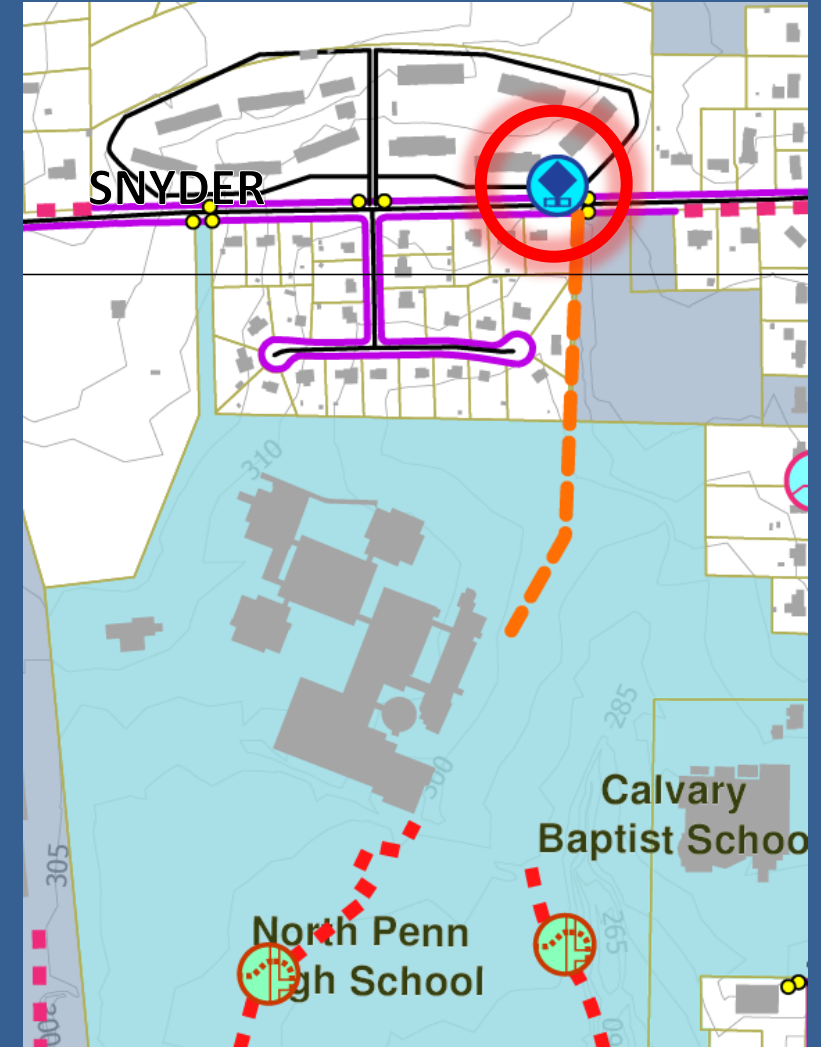
- User activated
- Both Sides of the street



Synder Road at North Penn High School



Example of Flashing Beacon



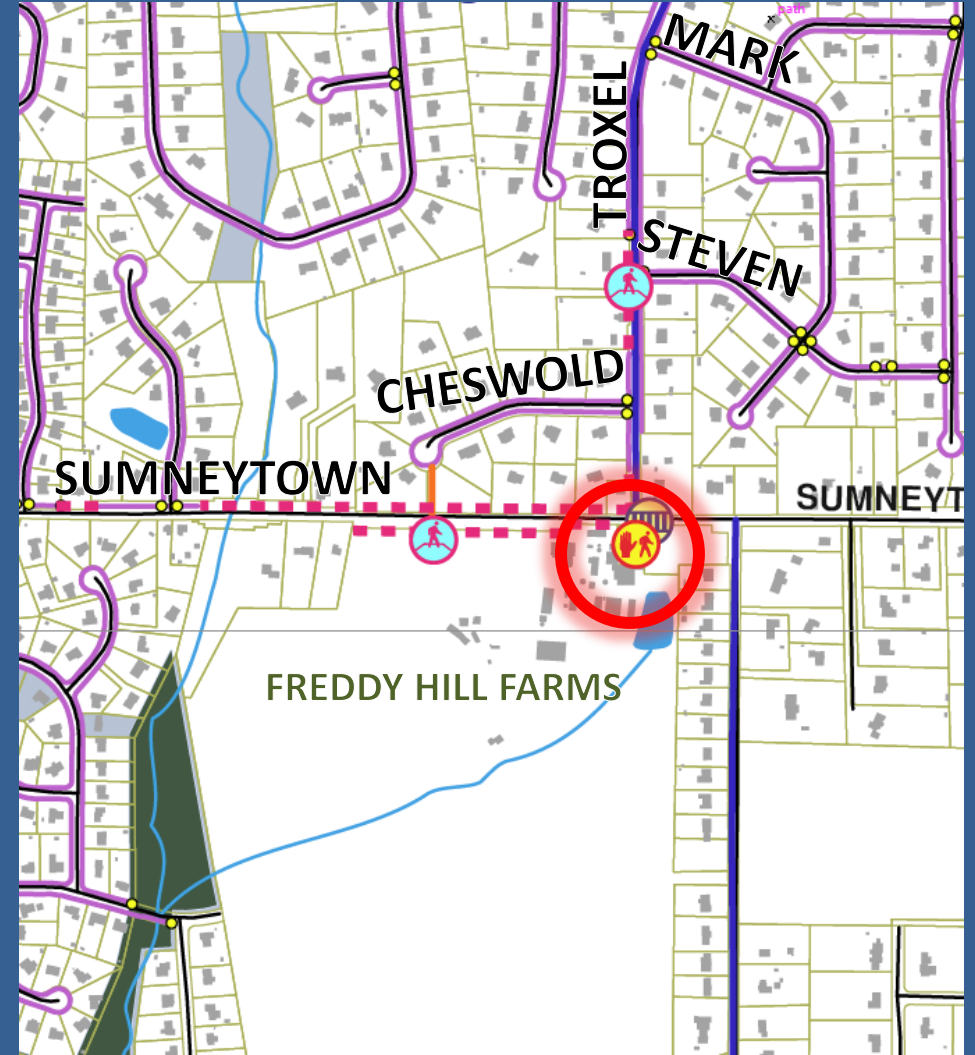


Hand Man

- PennDOT Terminology
- Traffic signal for pedestrians



Intersection of Sumneytown Pike and Troxel Road





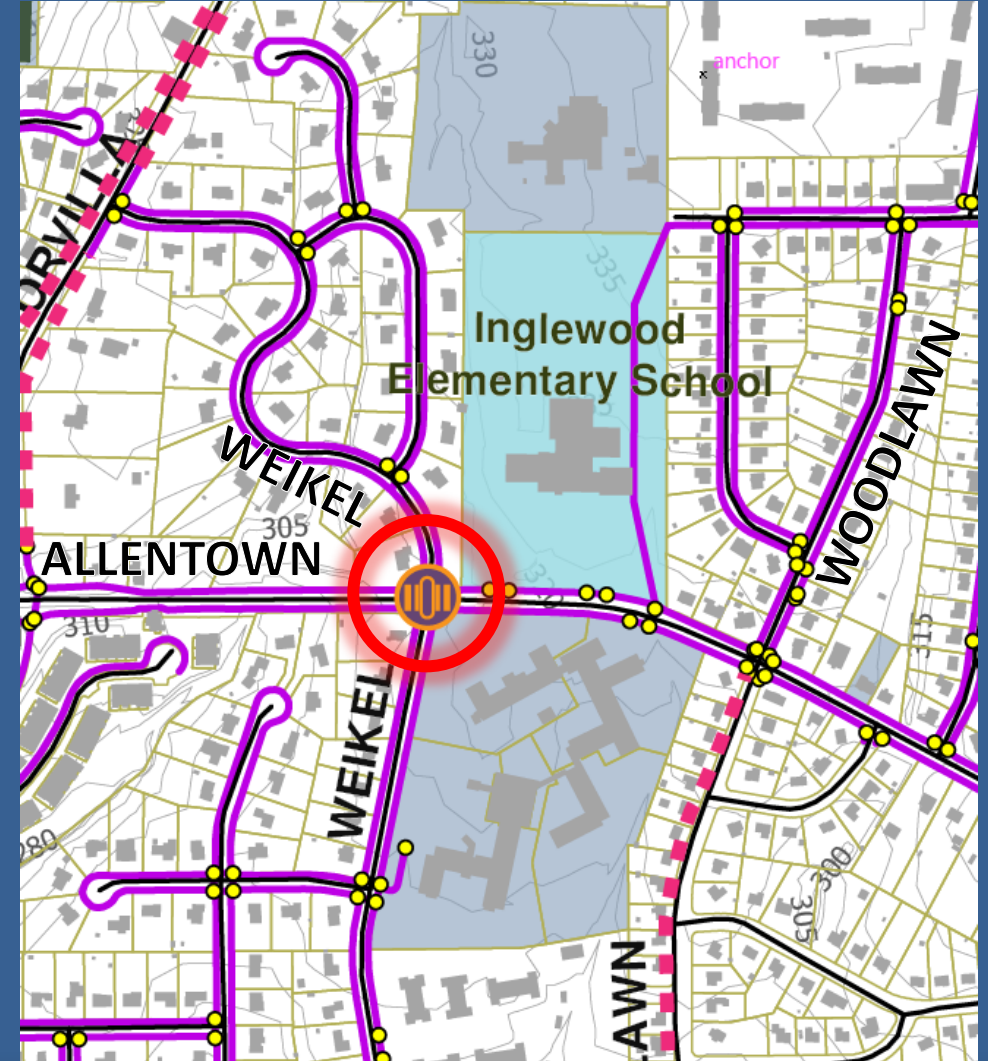
Pedestrian Refuge Island



Weikel Road and Allentown Road



Pedestrian Refuge Island Example



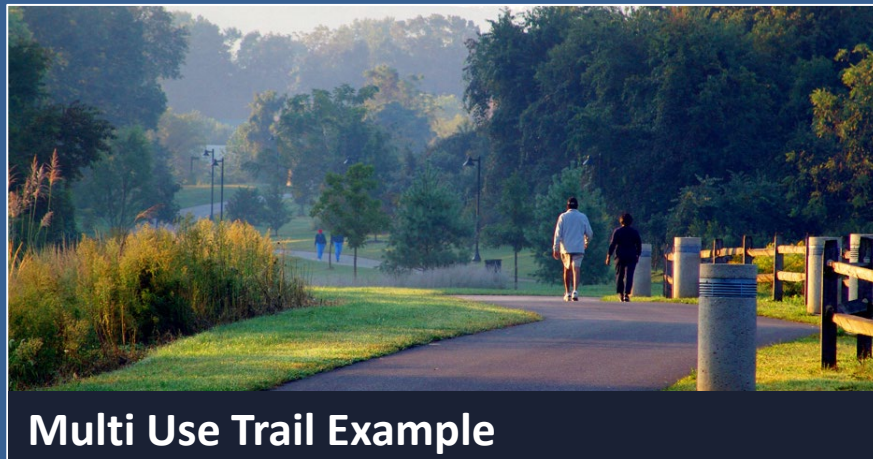


Multi-Use Trail

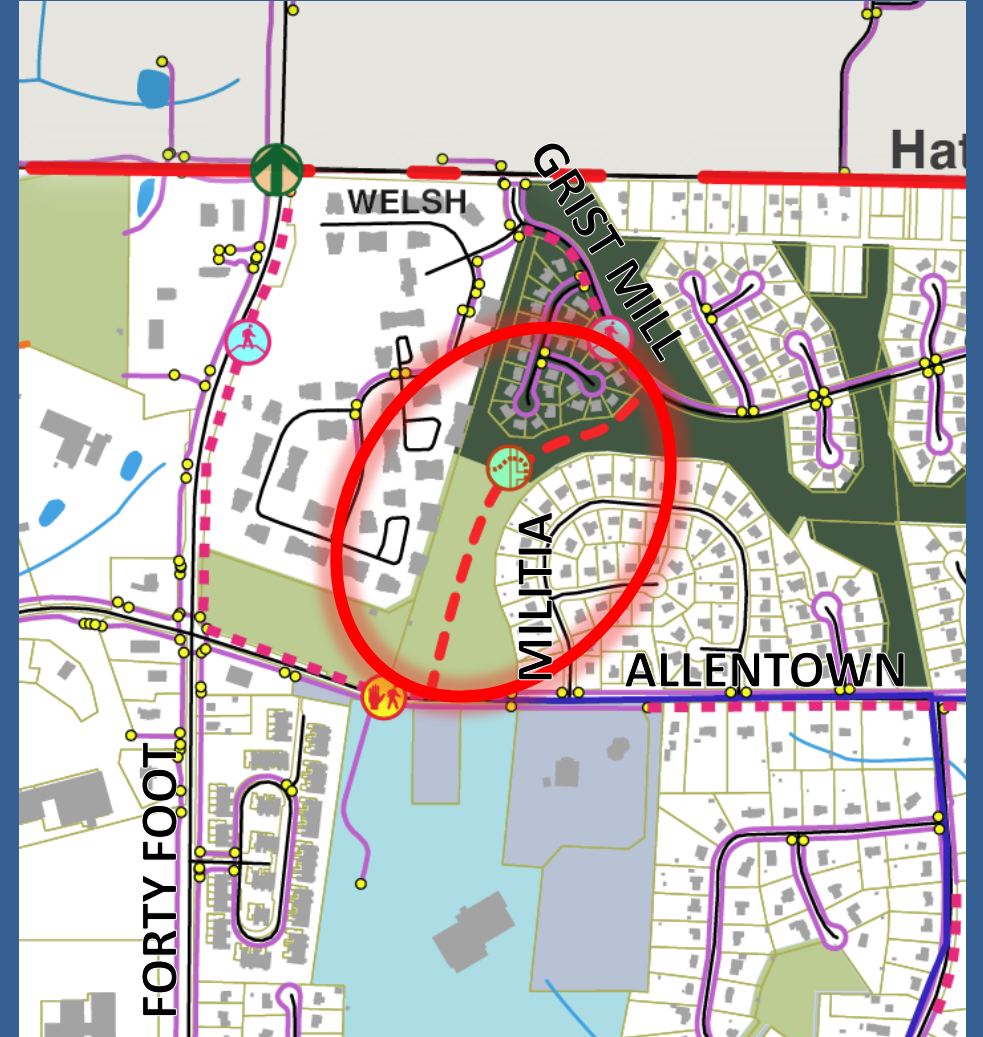
- 10'-12' Wide



Future connection to Grist Mill Park to neighboring residential



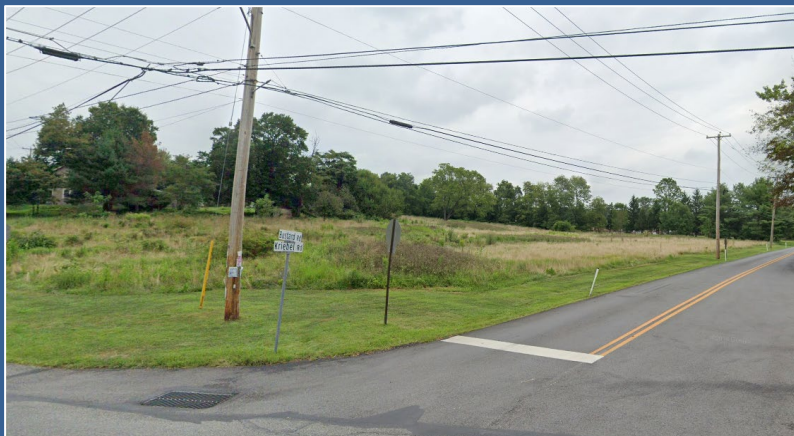
Multi Use Trail Example





Side Path

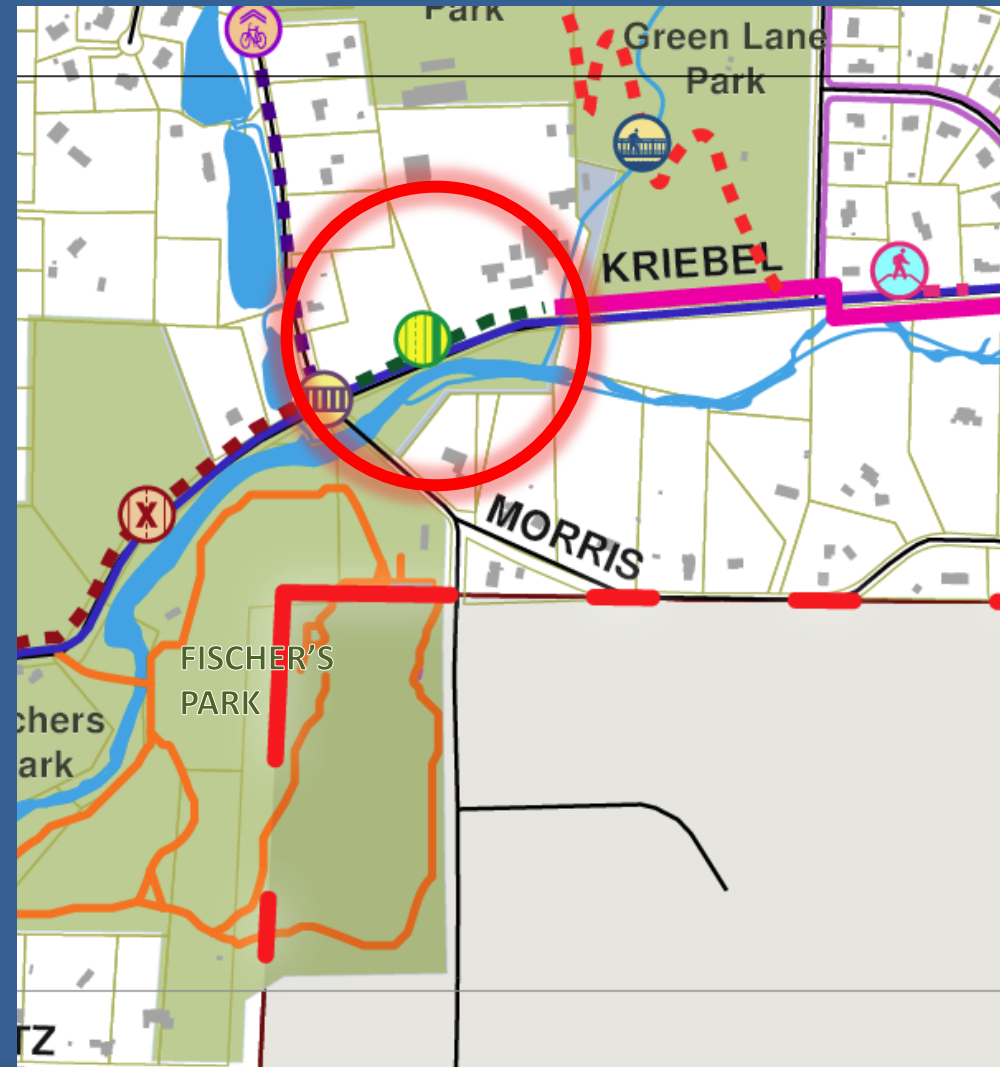
- Connection to Kriebel Road Trail from Fischers Park



Intersection of Bustard and Kriebel



Side Path Example in Radnor PA



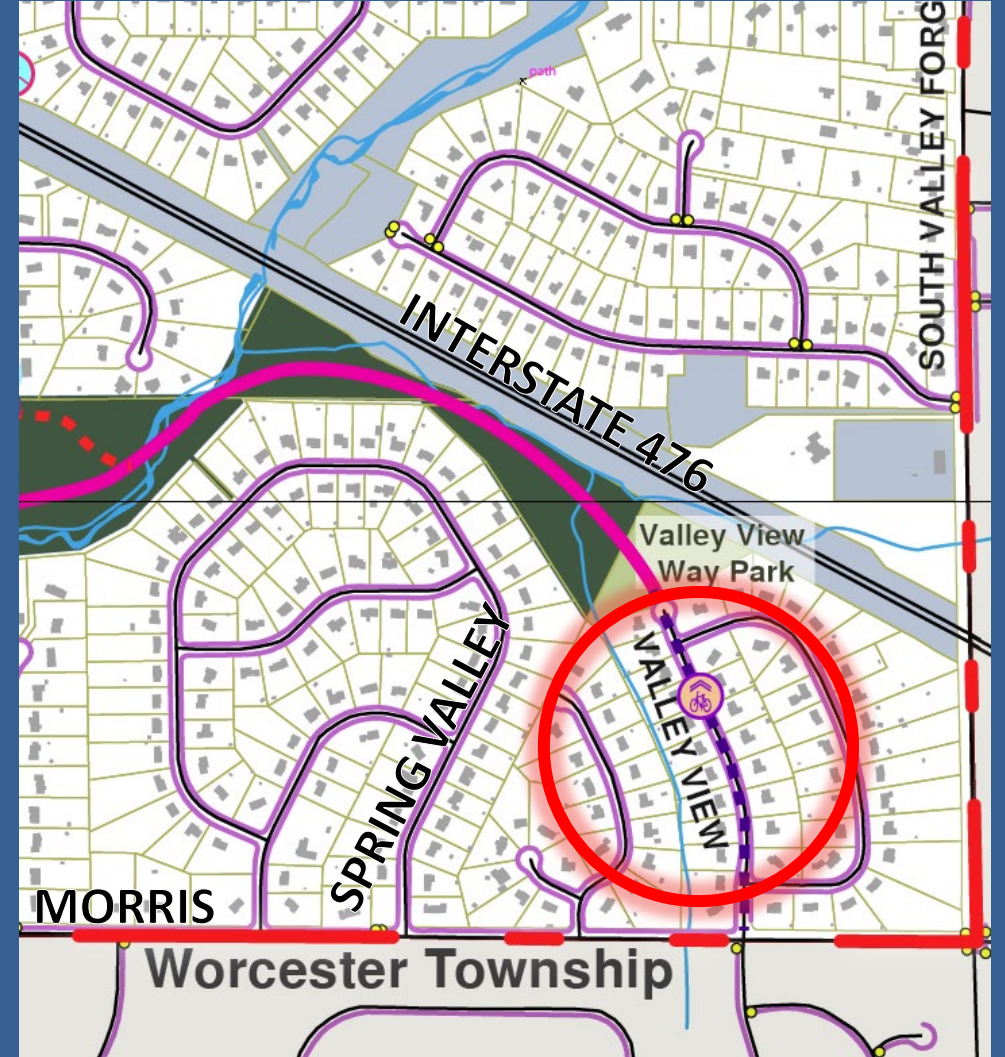
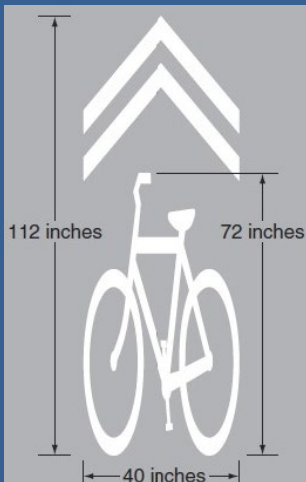
- Paired with MUTCD specified signage
- Roads with speed limits of 25 MPH



Valley View Way



Sharrows Example





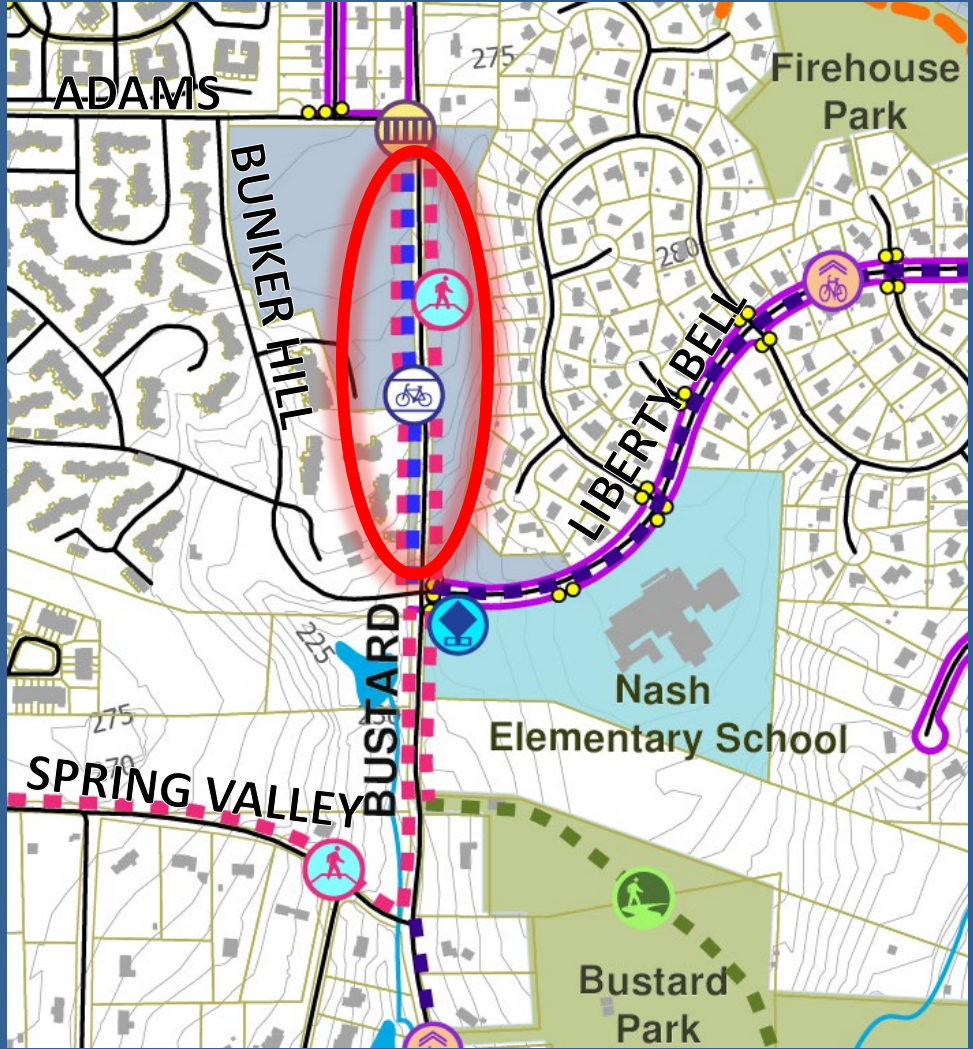
Bike Lane



Shoulder on Bustard Road



Painted Buffered Bike Lane



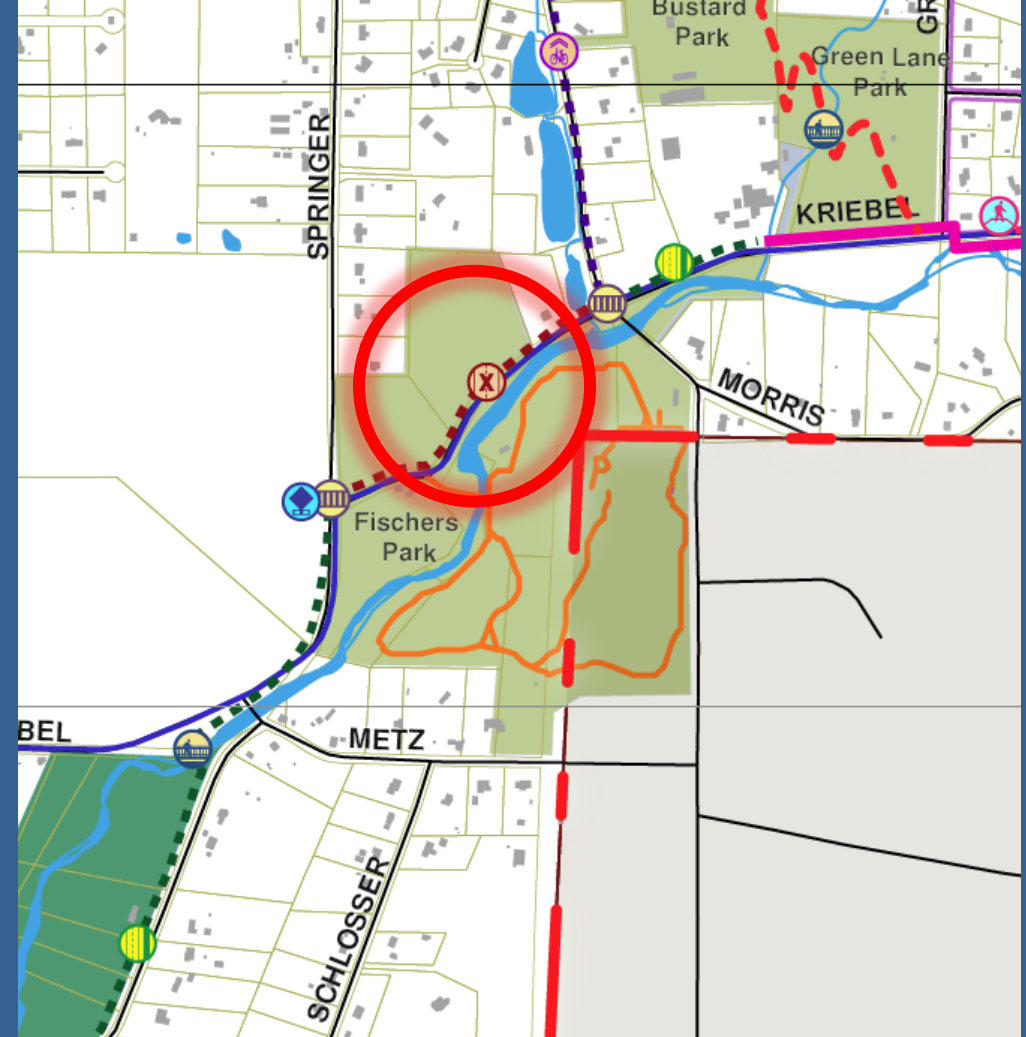


Road/Lane Closure

- Kriebel Rd from Bustard to Spring
- Future Connection To Evansburg State Park
- Facilitates future uses of Fischer's Park



Kriebel Road within Fischer's Park



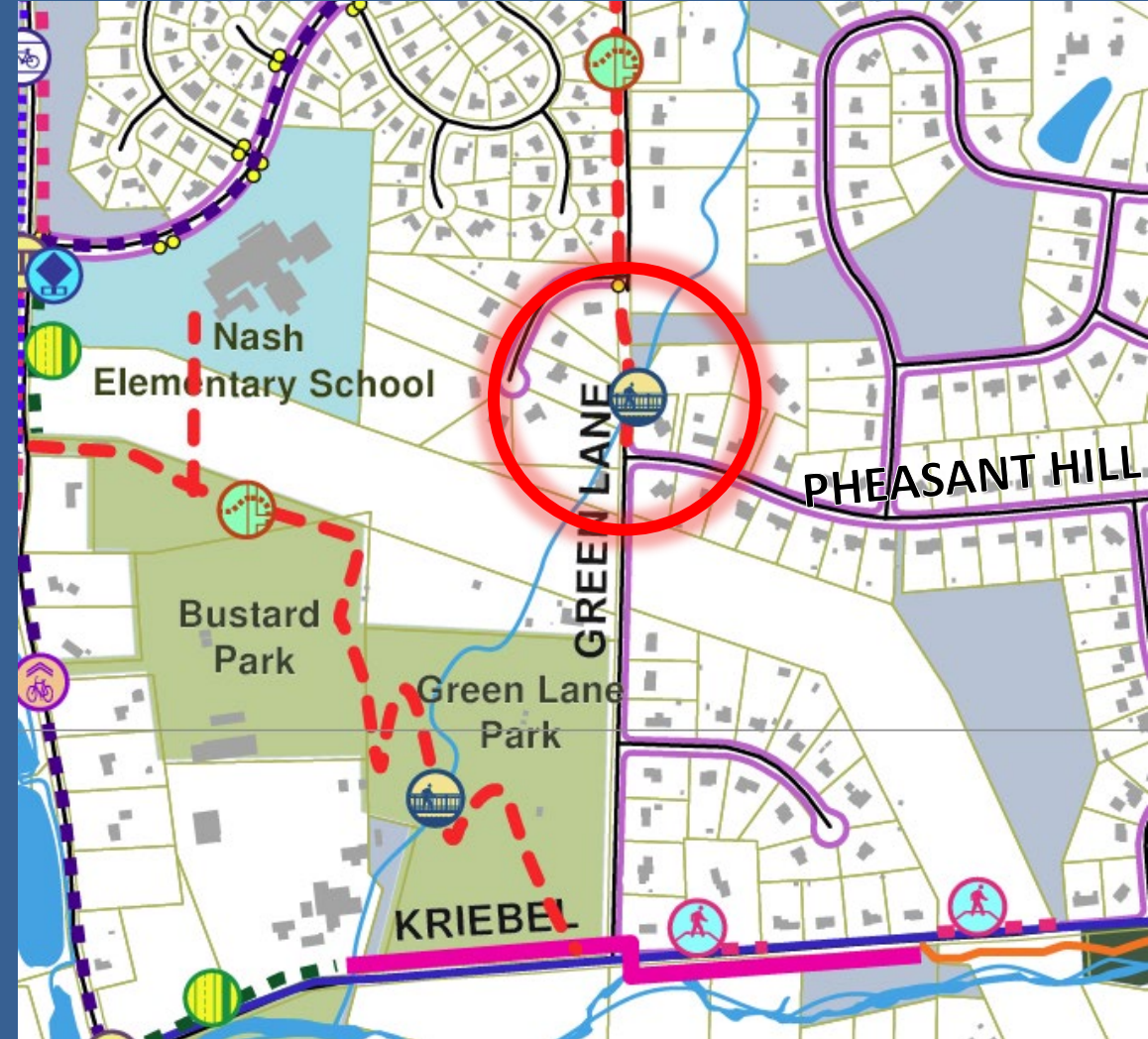


Trail Bridge

- Prefabricated
- Requires site engineering and permitting
- Connects north neighborhood to two parks and the Kriebel Road Trail.



Green Lane Road Right of Way



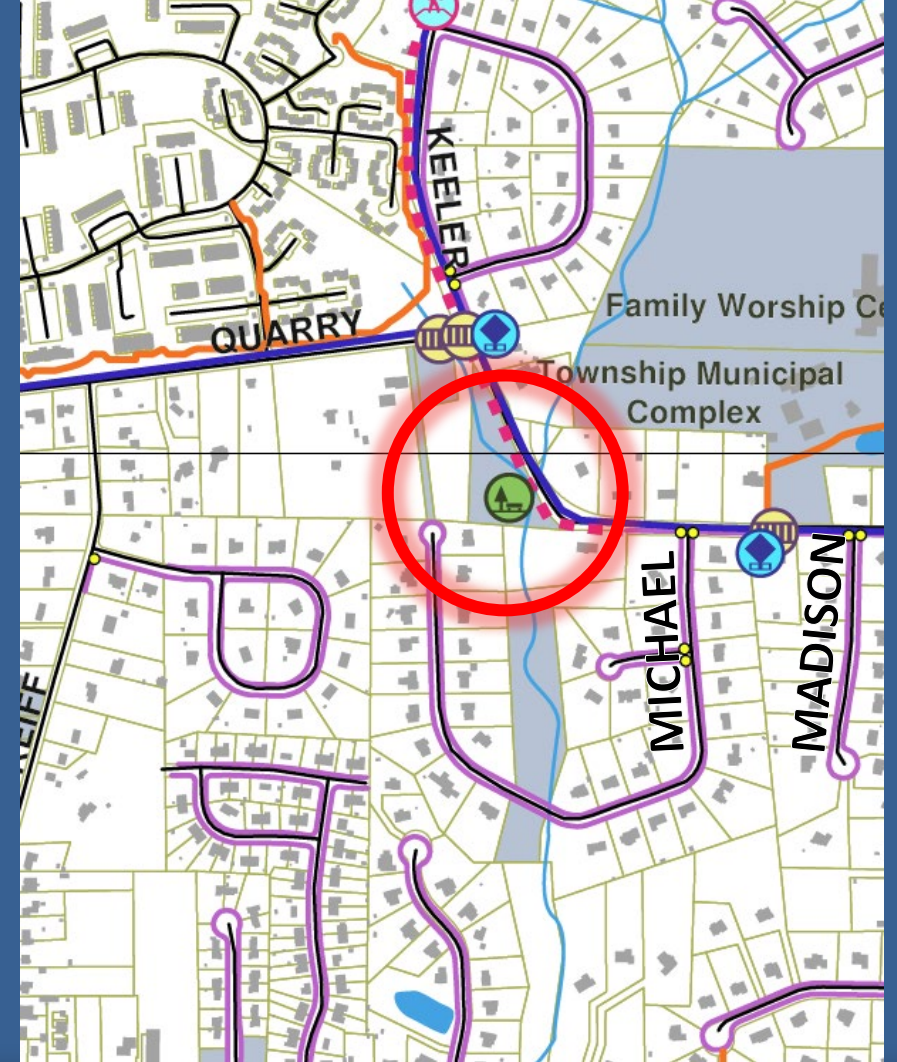


Pocket Park

- Small and Simple improvements
 - Benches
 - Trash cans
 - Picnic Table
- Resting spot on trail



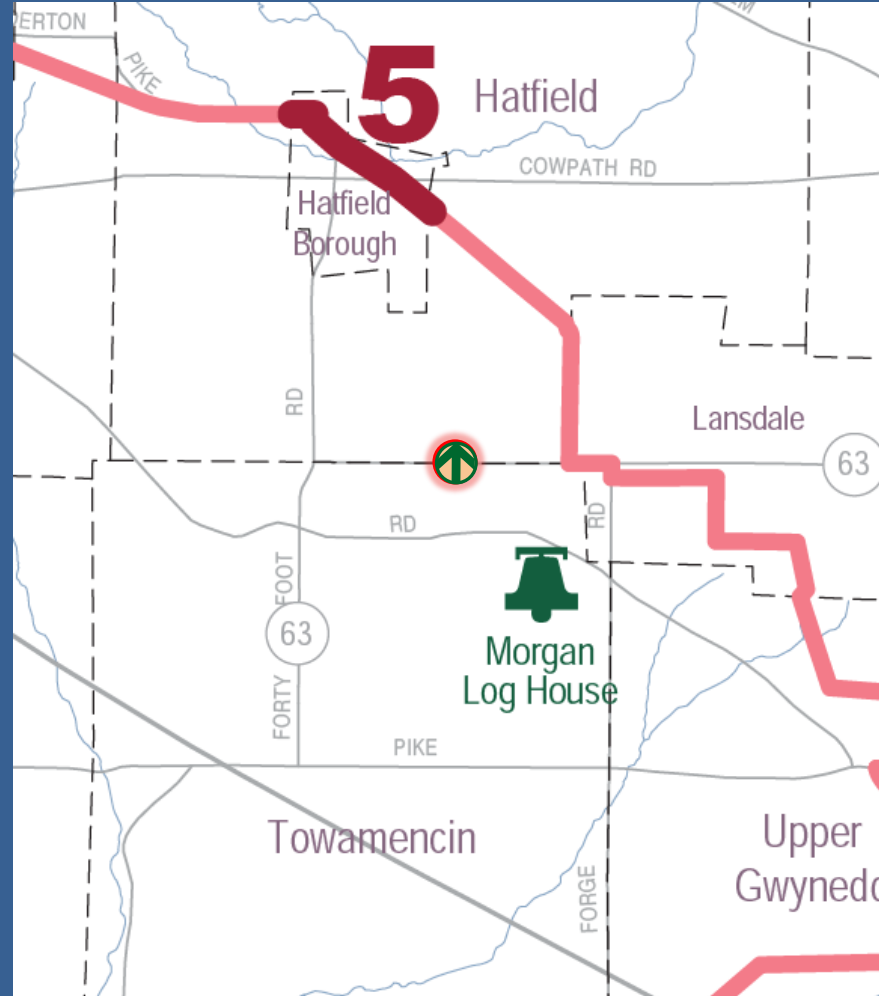
Township Parcel on Keeler Road



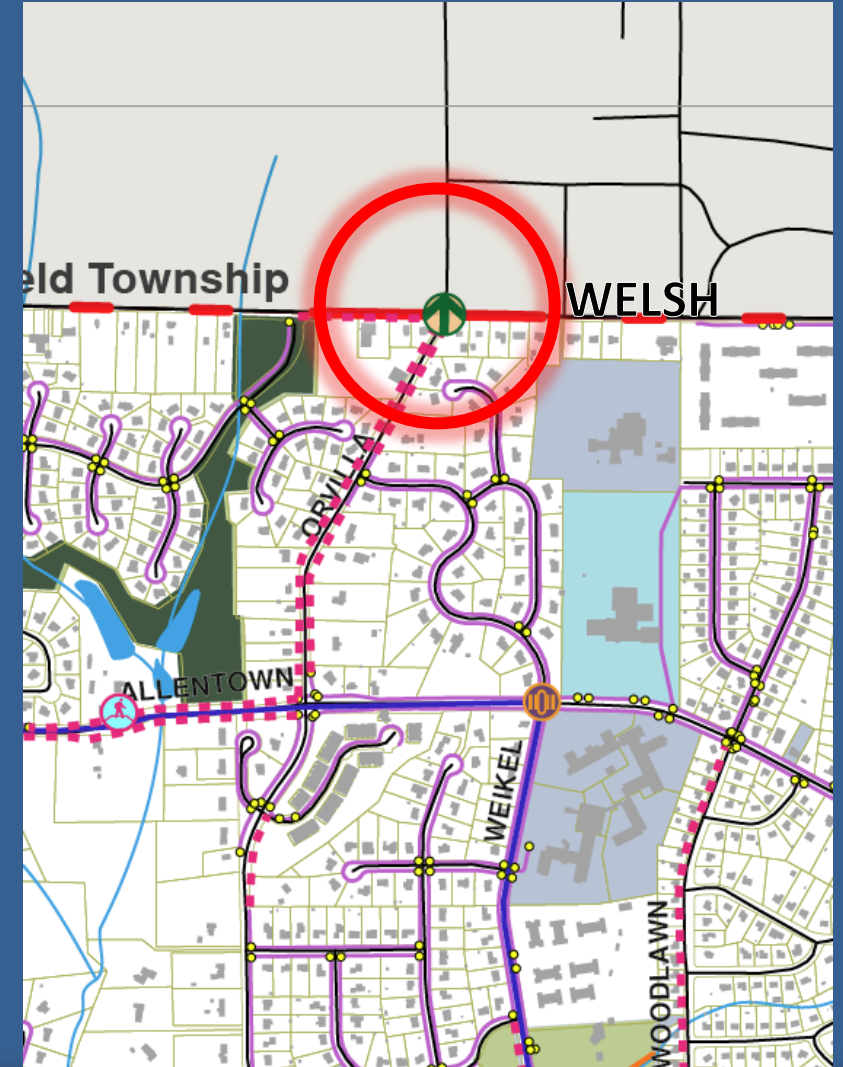


Connections To Adjacent Townships

- Introduce infrastructure that allows for future connections
- Connect to surrounding trails and other destinations



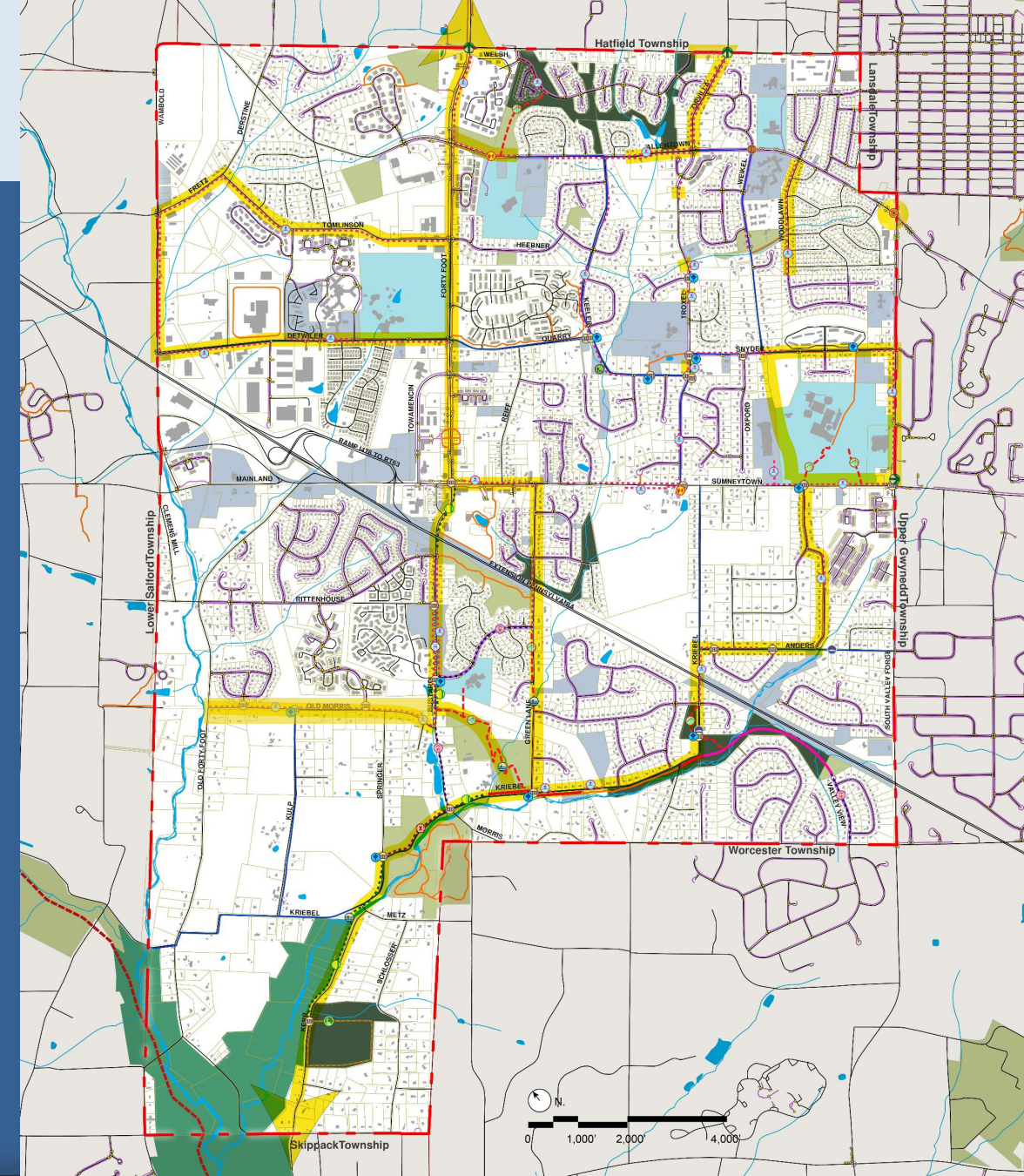
5 shows Liberty Bell Trail in Hatfield



Preliminary Route Concepts

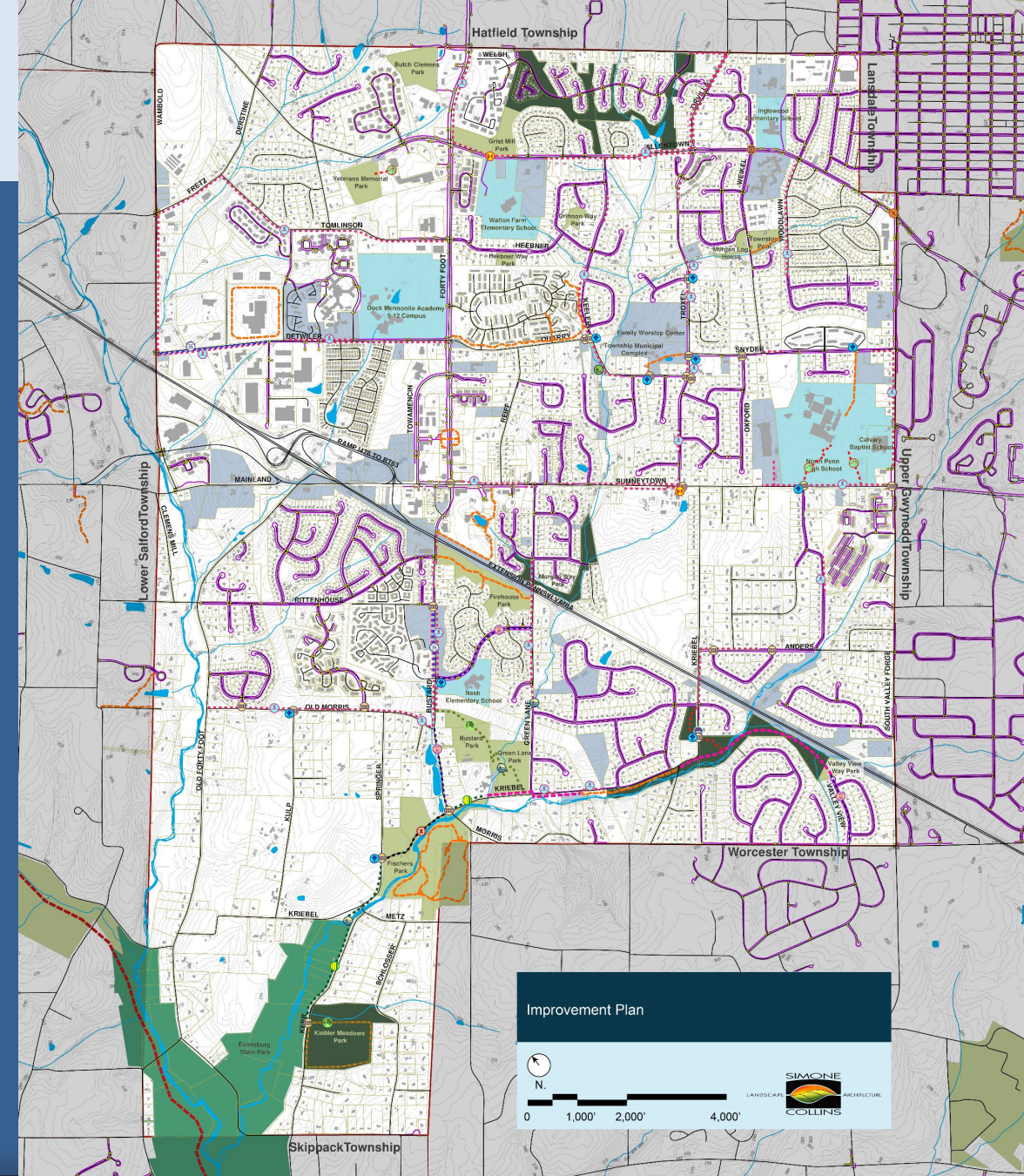
Improvement Concepts

- All connections explore the use of on and off-road trails. Off-road trails will be prioritized:
 - North to South connection along Forty Food Road from Butch Clemens Park to Evansburg State Park using proposed off and on road trails
 - Connections to schools
 - Connections to future Kriebel Road Trail



Draft Plan Review

- This plan is subject to change based on input from the public and the Township Officials.
- Please visit the Township Website to review the Draft Plan in detail:
<https://www.towamencin.org/resources/sidewalk-trail-connectivity-study/>
- Please email the Simone Collins team with any questions or comments you may have about the Draft Plan.





Next Steps



Next Steps

- **April 13, 2023**
- Apply Draft Plan comments
- Refine Routes
- Draft Cost Estimates

Towamencin Connectivity Study – Project Schedule

Meeting	Purpose	Date	Time
Committee Meeting #1	Project overview, initial site analysis, brainstorming	Monday, October 10, 2022	7:00 - 8:30 PM
Public Opinion Survey/ Wikimapping Period	Write and administer Public Opinion Survey/ Wikimapping	Monday, October 3, 2022 – Thursday, April 13, 2023	
Public Meeting #1	Project Overview / Public Brainstorming	Thursday, November 10, 2022	7:00 - 8:30 PM
Committee Meeting #2	Review Public Meeting/survey, analysis process, initial concepts	Monday, December 5, 2022	7:00 - 8:30 PM
Public Meeting #2	Analysis / Concepts	Thursday, February 9, 2023	7:00 - 8:30 PM
Committee Meeting #3	Concept refinement, draft plan overview	Monday, March 6, 2023	7:00 - 8:30 PM
Public Meeting #3	Draft Plan Presentation	Thursday, April 13, 2023	7:00 - 8:30 PM
Public Review Period	45-Day Draft Plan Review	Thursday, April 13, 2023 – Monday, May 29, 2023	
Board of Supervisors Meeting	Review Draft Plan	Wednesday, May 10, 2023	7:00 - 8:30 PM
Committee Meeting #4	Review comments and make revisions	Monday, June 5th, 2023	7:00 - 8:30 PM
Public Meeting #4	Present final plan	Thursday, June 22, 2023	7:00 - 8:30 PM

Public Opinion Survey & WikiMapping



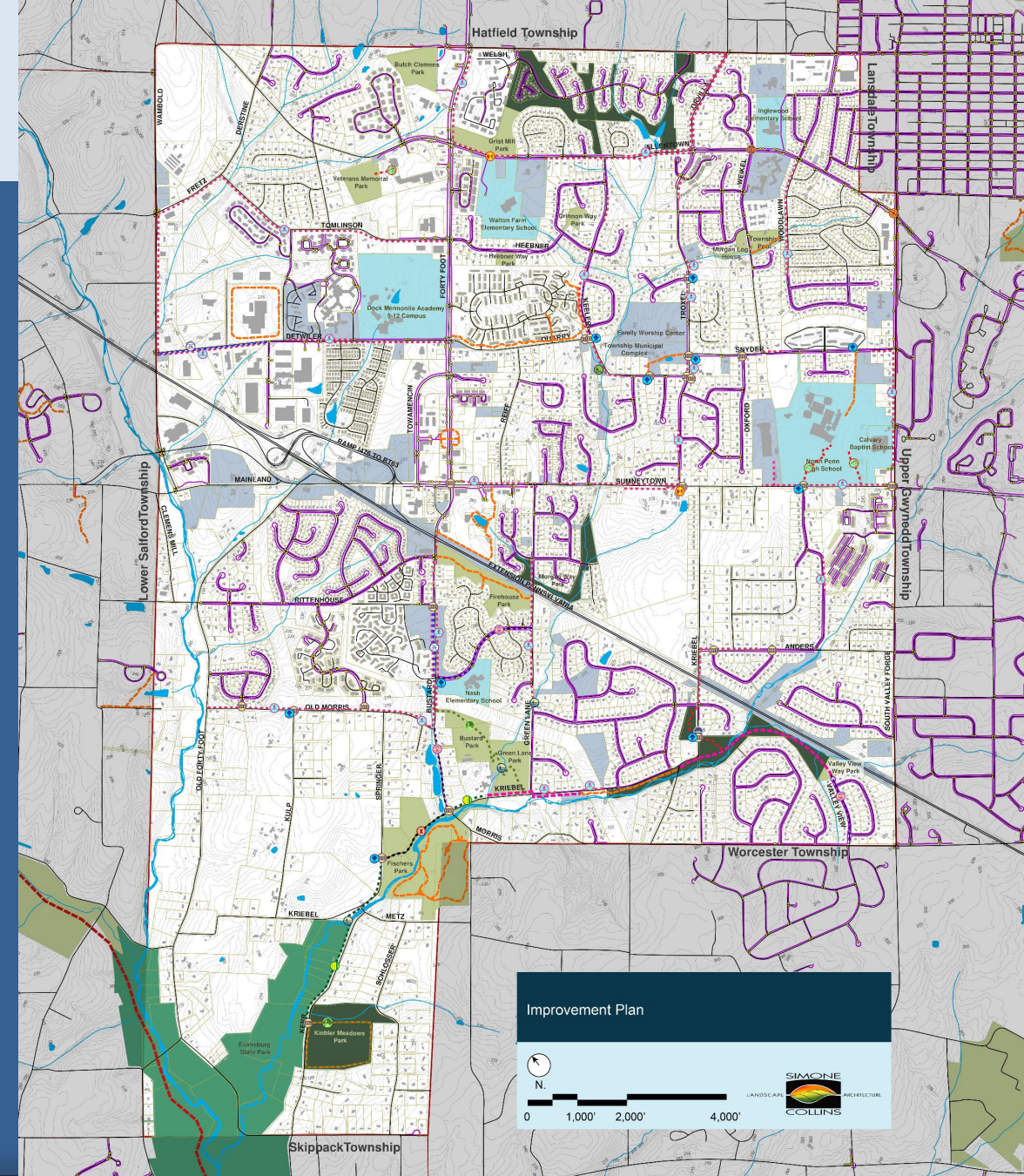
<https://qrco.de/Towamencin-Survey>



<https://qrco.de/Towamencin-Wikimap>

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