

WELCOME TO THE SPRING 2024 CONCORD PIKE MONITORING COMMITTEE MEETING!

THE MEETING WILL BEGIN AT 4:00 PM

APRIL 24, 2024



SPRING 2024 CONCORD PIKE MONITORING COMMITTEE MEETING

APRIL 24, 2024



AGENDA

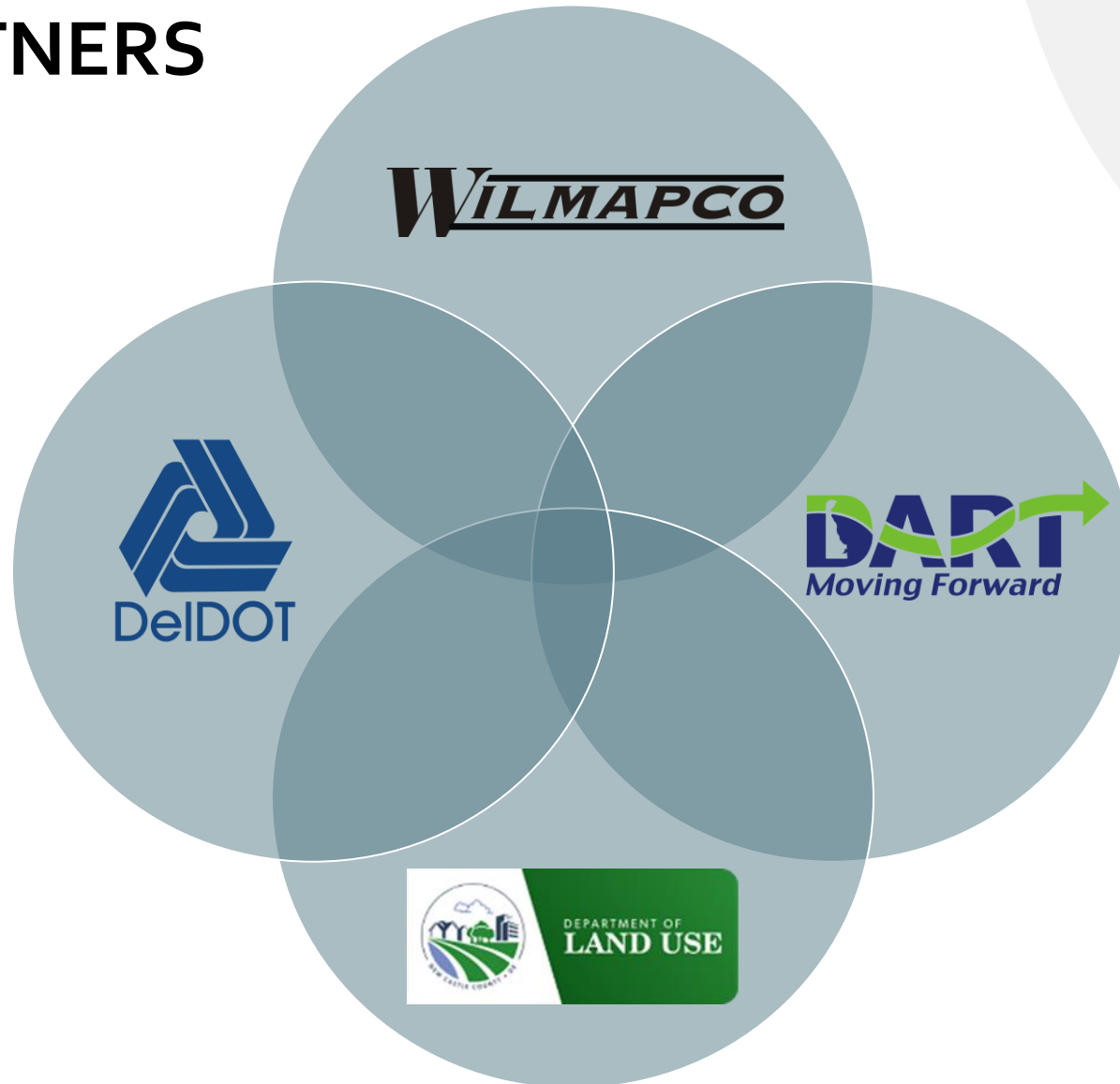
- Welcome and Introductions
- Spotlight Topic: 2021 Bike Delaware Summit Presentation on Mount Lebanon Road and Silverside/Garden of Eden Road
- Spring Public Workshop Preview
- Open Discussion
- Agency Updates
 - WILMAPCO
 - DeIDOT
 - Delaware Transit Corporation
 - NCC Department of Land Use
- Next Steps
- Public Comment



INTRODUCTIONS



PROJECT PARTNERS



MEMBERS

Civic, Business, Special Interest, Institutions

- Bike DE: James Wilson
- Brandywine Conservancy: Elena Hadley
- Civic League for NCC: Bill Dunn
- CCOBH: R.J. Miles
- Committee of 100: Troy Brestel
- Delaware Greenways: Terri Jones
- Delaware Office of State Planning Coordination: Samantha Bulkilvish
- Delaware State Police: Lt. Roger Davis
- New Castle County Chamber of Commerce: Alysse Bortolotto
- Woodlawn Trustees: Richard Przywara

Project Partners

- WILMAPCO: Dan Blevins, Dave Gula
- DelDOT: Peter Haag, Cooper Bowers
- NCC: Matt Rogers
- DTC: Cathy Smith

State/County Elected Officials

- New Castle County Council
 - District 2: Dee Durham
- State Elected officials
 - State Senate District 1: Sarah McBride
 - State Senate District 4: Laura Sturgeon
 - State Senate District 5: Kyle Evans Gay
 - State Representative District 1: Nnamdi Chukwuocha
 - State Representative District 6: Debra Heffernan
 - State Representative District 10: Sean Matthews
 - State Representative District 12: Krista Griffith

Project Team

- RK&K: Mark Tudor, Jim Burnett, Stephanie Everett, Katie Gibson
- Kramer & Associates: Andrew Bing

**SPOTLIGHT TOPIC:
2021 BIKE DELAWARE SUMMIT
PRESENTATION ON MOUNT
LEBANON ROAD AND
SILVERSIDE/GARDEN OF EDEN
ROAD**



PURPOSE

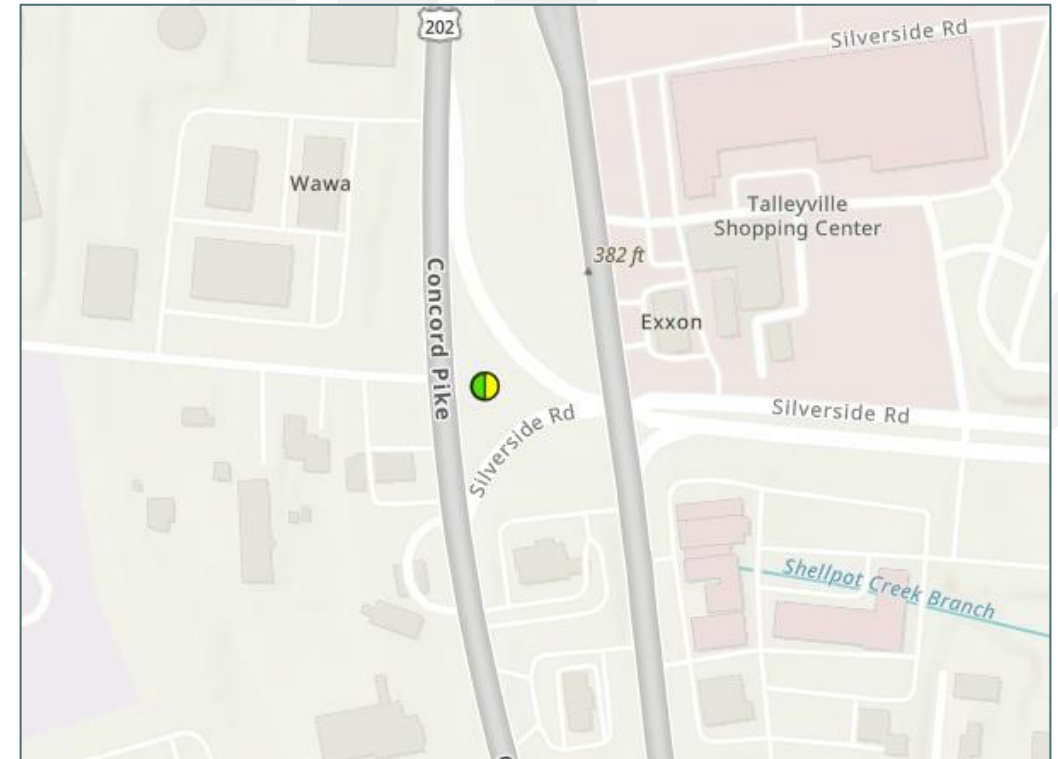
- Revisit material presented at the 2021 Bike Delaware Summit regarding Mount Lebanon Road and Silverside/Garden of Eden Road
 - Mentioned at previous CPMC meetings
- Discuss the path forward (if any)

DISCUSSION QUESTIONS

- What was the most interesting takeaway from the presentation?
- What are the challenges or opportunities for bike connectivity at these intersections?
- Do you think there is a need to evaluate options to separate the modes more at Mount Lebanon Road and Garden of Eden/Silverside Road?

CONCORD PIKE AND SILVERSIDE ROAD

Garden of Eden Rd/Silverside Rd Intersection Level of Service	
2023	
AM LOS	B
PM LOS	D
2022	
AM LOS	A
PM LOS	D



Intersection Crash Metrics*

- Ranked #205 out of 277 in 2023 (2020-2022 crash data)
- Ranked #250 out of 267 in 2022 (2019-2021 crash data)

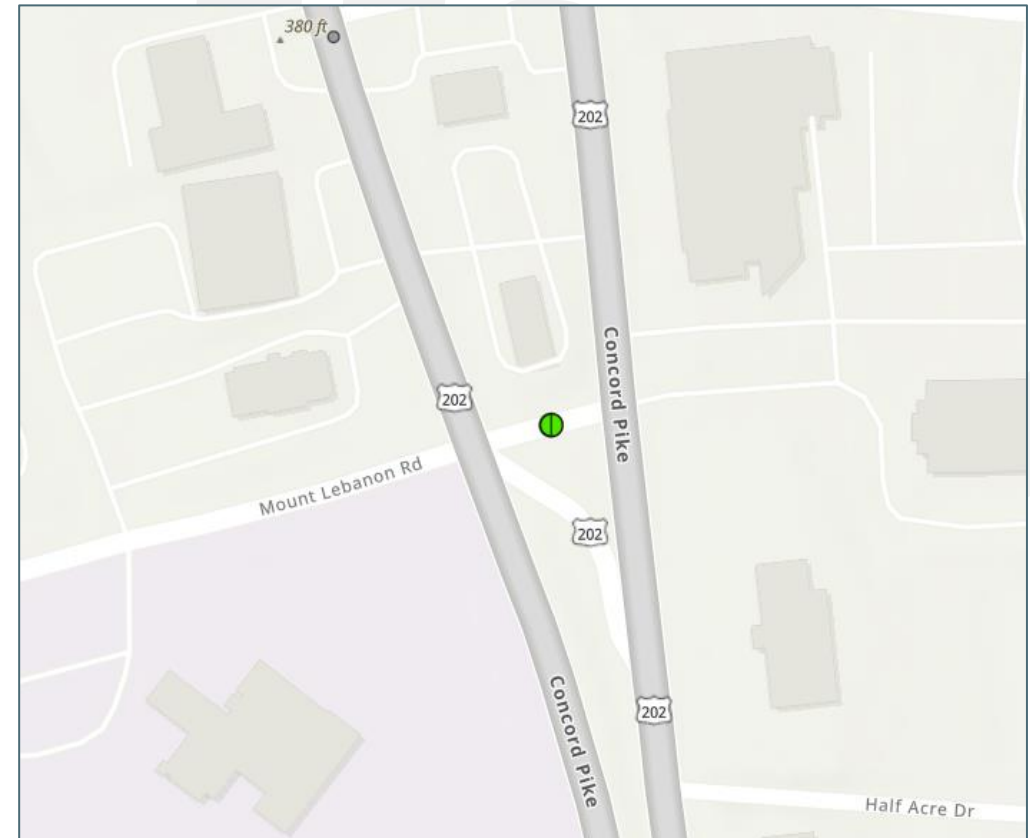
*Based on WILMAPCO statewide intersection crash analysis

Intersection Level of Service (LOS)

- AM LOS | PM LOS
- LOS A, B or C
- LOS D
- LOS E
- LOS F
- To be completed in future years

CONCORD PIKE AND MOUNT LEBANON ROAD







Mount Lebanon Road Intersection Level of Service	
2023	
AM LOS	B
PM LOS	B
2022	
AM LOS	B
PM LOS	C



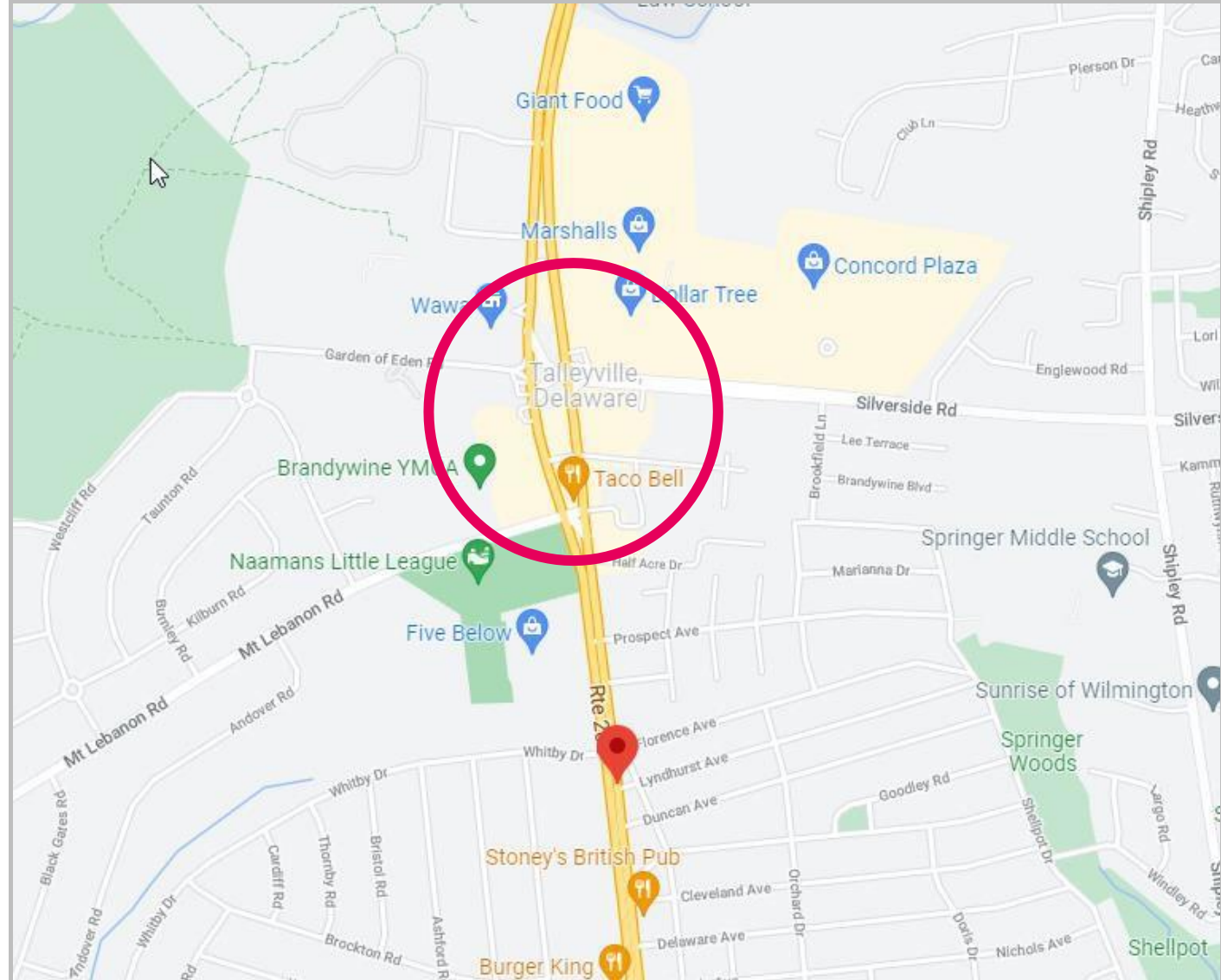
During our years of monitoring, this intersection has not had 10 or more crashes annually from 2019-2021, or 2020-2022*

*Based on WILMAPCO statewide intersection crash analysis

Intersection Level of Service (LOS)

-  AM LOS | PM LOS
-  LOS A, B or C
-  LOS D
-  LOS E
-  LOS F
-  To be completed in future years

Intersection of Concord Pike & Silerside Road Wilmington DE



AGENDA

- Introductions: Goudappel and RK&K
- Nominated intersection
 - Issues/Challenges
 - Concept Design Approach
- Network for cycling in the surrounding area
- People-friendly solutions at the intersection



Five requirements for good bike network

1. Coherent
2. Direct
3. Attractive
4. Safe
5. Comfortable and smooth flowing



Investing in cycling is also good for cars (Austin)

Volume to Capacity Ratio Improvements car-network Austin Texas

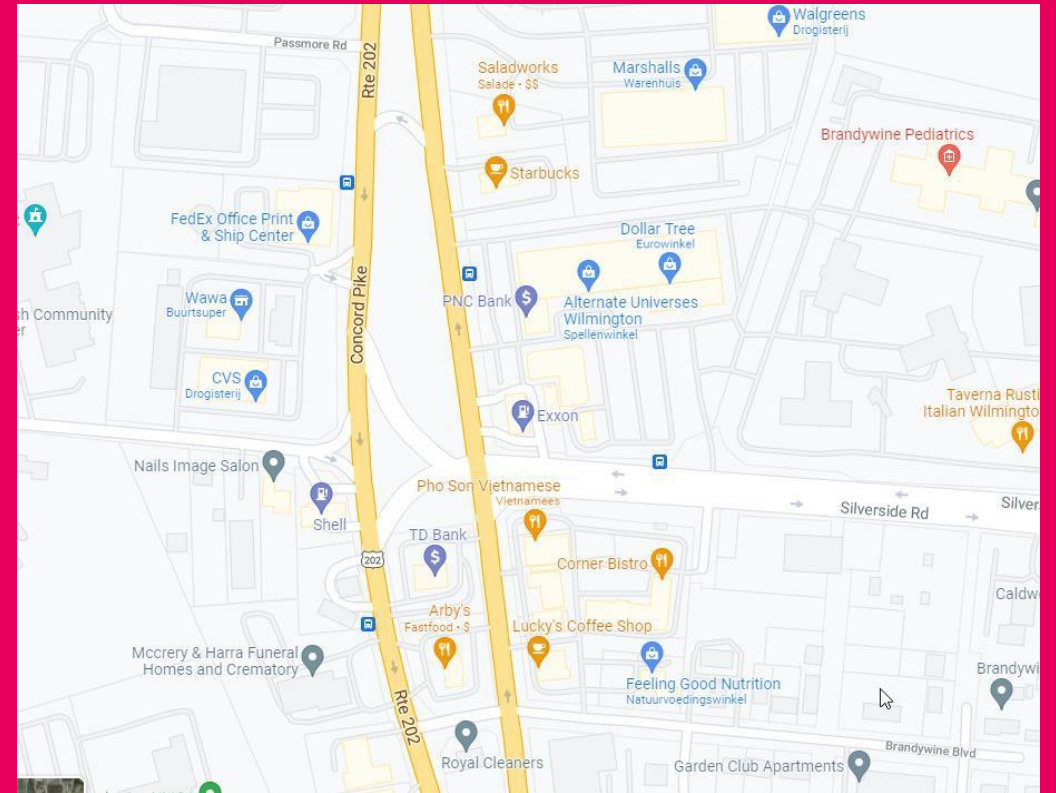
Before and After 15% of Short Trip Capture





INTERSECTION OF CONCORD PIKE & SILVERSIDE ROAD/GARDEN OF EDEN ROAD

How to cross an extremely busy
arterial roadway



Issues / Challenges

- High traffic volumes, major obstacles
 - Concord Pike – 39,000 AADT
 - Silverside Road – 10,000 AADT
- Transportation corridor with various land-use functions
- Lack of dedicated bicycle infrastructure
- Challenging to cross roadways (indirect connections, long wait times, many travel lanes to cross)



Goals

- Multi-modal approach
- Enhance connections to surrounding land-uses (15 minutes-neighborhood)
- Connecting new developments
- Support economic vitality
- Comprehensive network for Bikers / Pedestrians
- High-quality infrastructure (comfortable, safe, attractive)

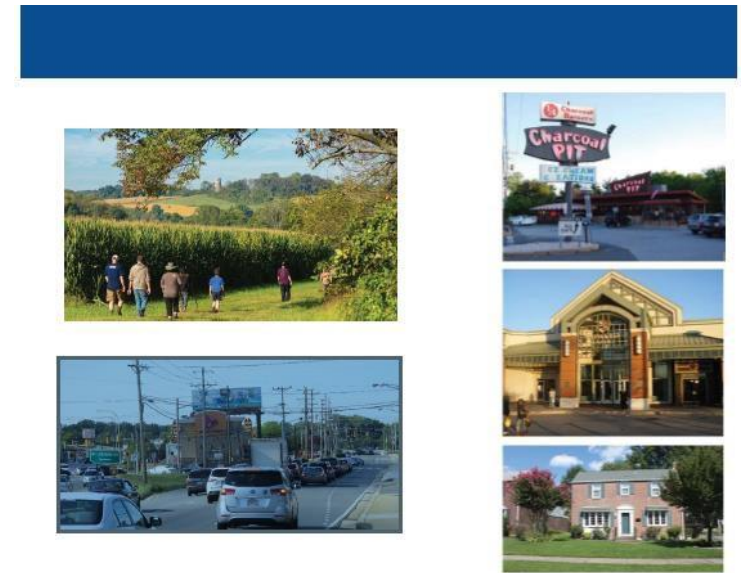
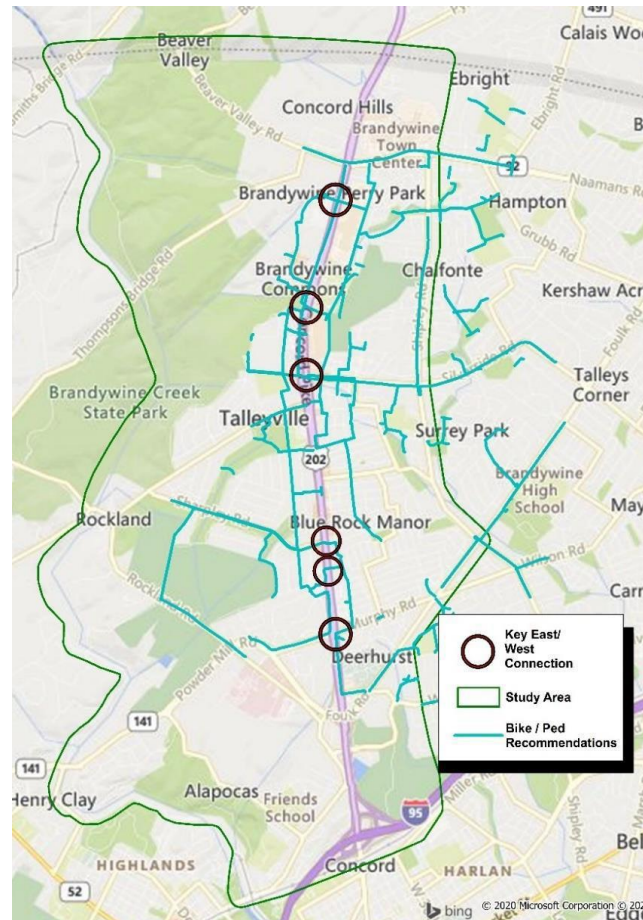


NETWORK FOR BIKING / WALKING

- Existing and Future Network

Analysis

- Very busy road
- Key East-West Connections
- Input by Stakeholders during Master Plan Development Process



**CONCORD PIKE (US 202)
CORRIDOR MASTER PLAN**

September 2020

© 2020 Microsoft Corporation © 2020
- 2 december 2021

Bike network

Based on Masterplan 2020

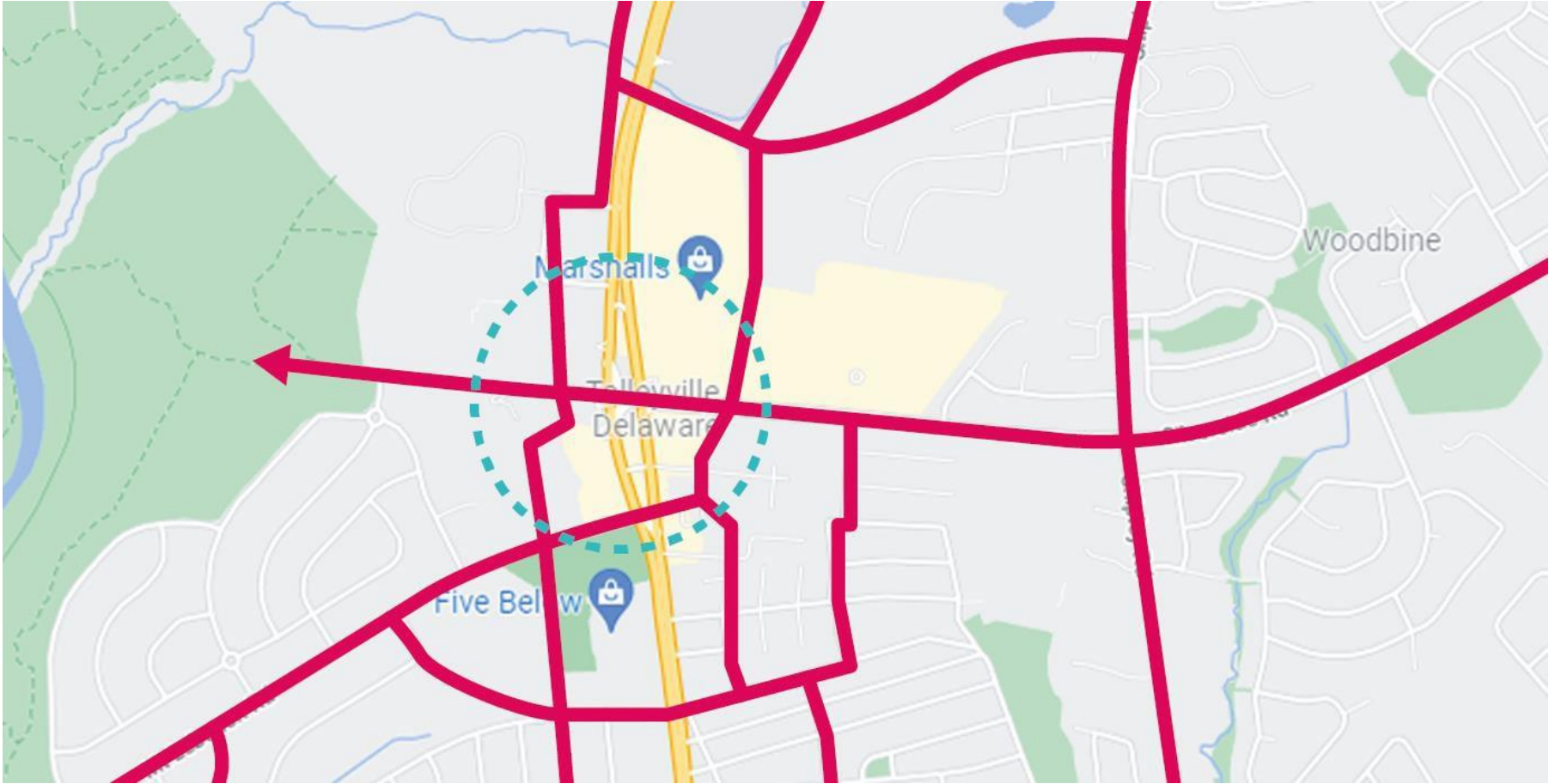


CONCEPT DESIGN ALTERNATIVES - CONCORD PIKE & SILVERSIDE ROAD/GARDEN OF EDEN ROAD INTERSECTION

Silverside Rd/Garden of Eden Rd Intersection

1. Pedestrian/Bicycle Underpass
2. Pedestrian/Bicycle Overpass

Concord Pike – Silverside Road

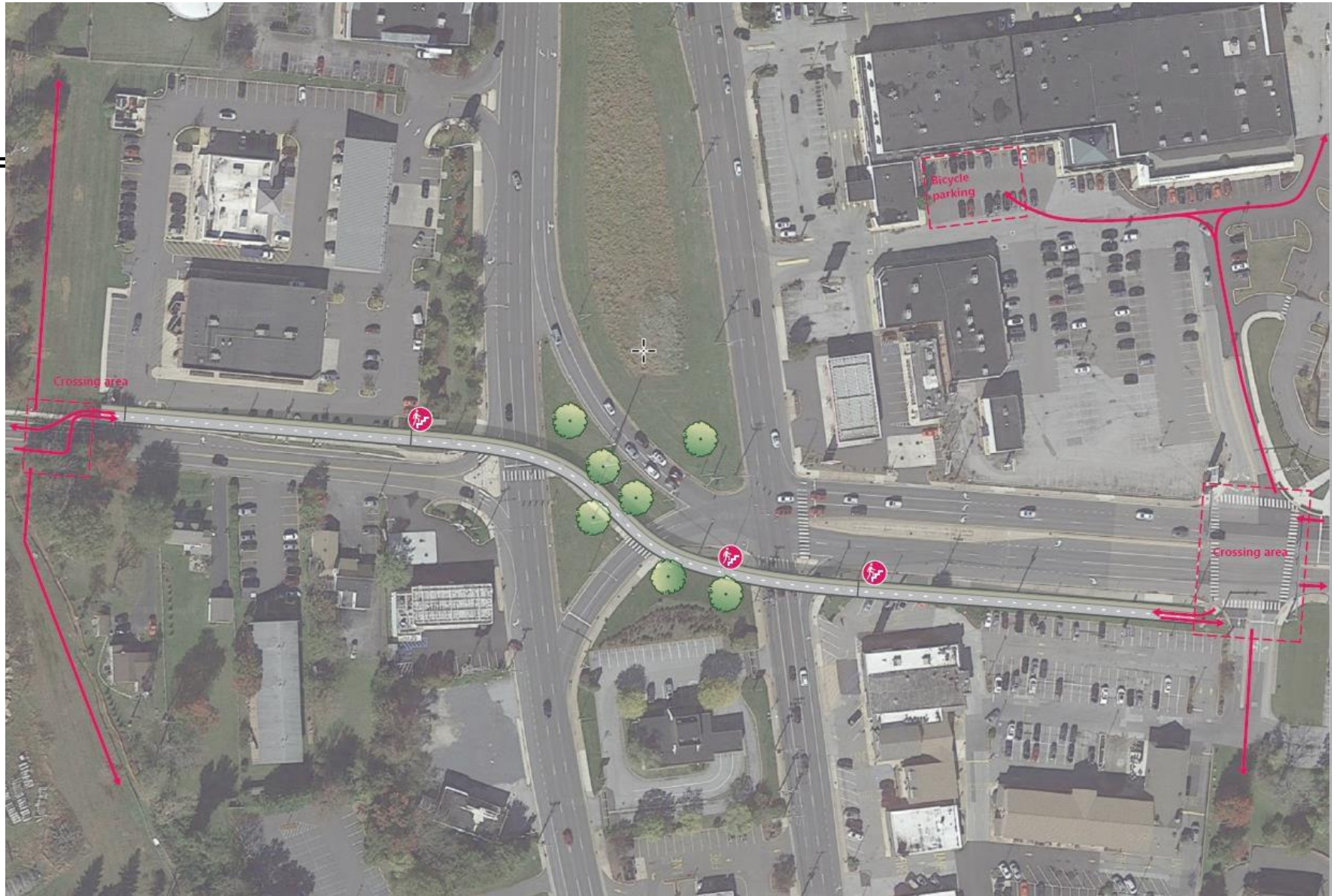


Bike tunnel
Pedestrians—Stairs
Opening (light)





Bike – Bridge
Pedestrians-Stairs
Trees



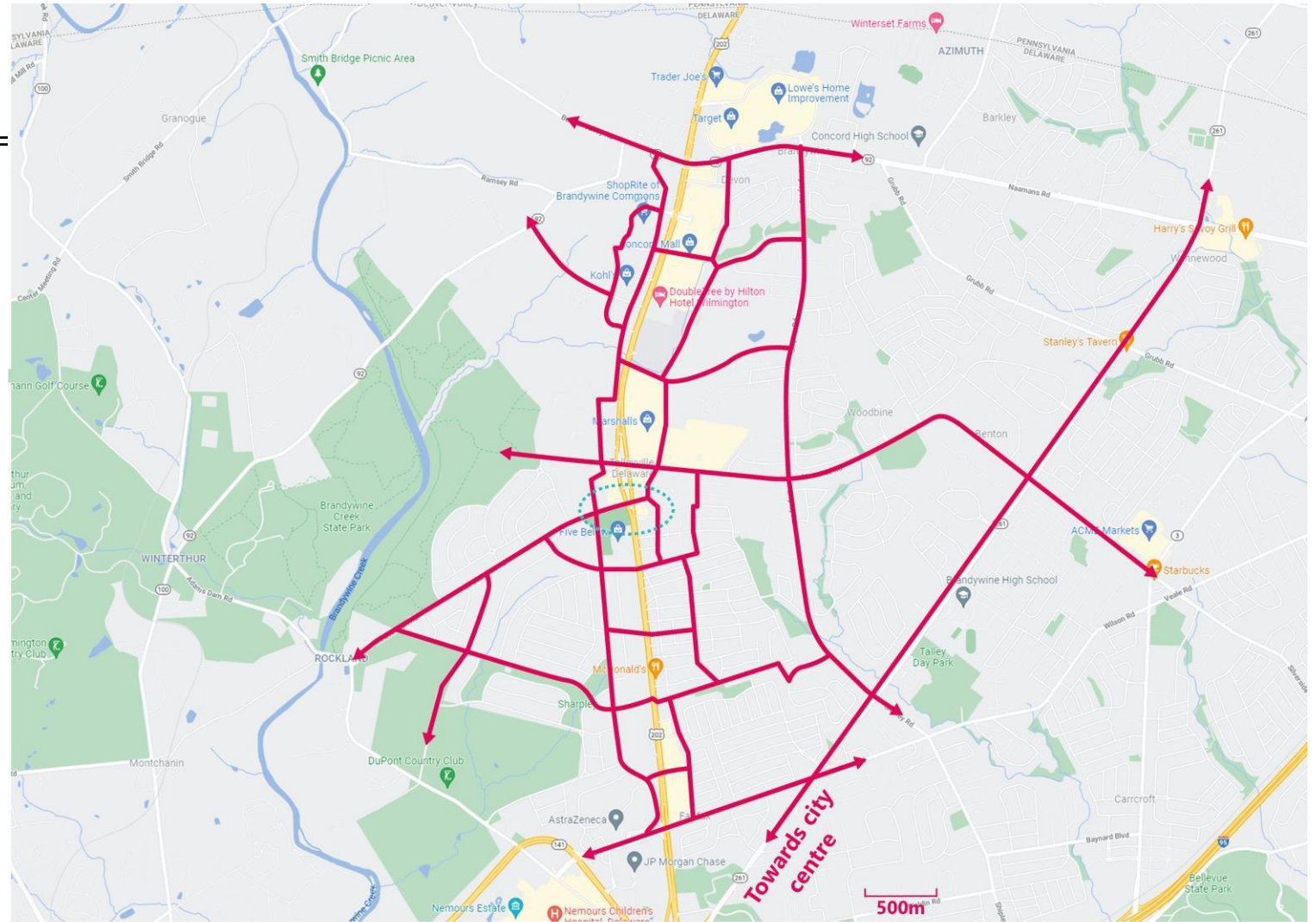
Example Bike Bridge



CONCEPT DESIGN ALTERNATIVES- CONCORD PIKE & MT. LEBANON ROAD INTERSECTION

Mt Lebanon

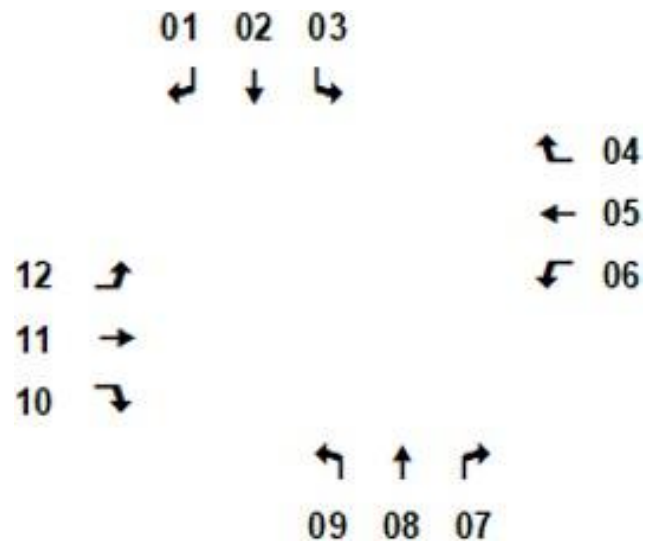
Alternative crossing



Mt. Lebanon Road



Traffic Flow



			pae fact	pa	1,0				
			pae fact	vracht	2,0				
			O C H T E N D 2 0 1 6 (0730 - 0830)			A V O N D 2 0 1 6 (ca 1630 - 1730)			MAX OCH / AVO
			PA	VR8	PAE/UUR	PA	VR8	PAE/UUR	PAE/UUR
		01	207	2	211	385	1	387	387
Concord Pike	noord	02	2076	71	2218	2010	58	2126	2218
		03	67	7	81	112	1	114	114
		04	-	-	-	-	-	-	-
Mt Lebanon Rd	oost	05	-	-	-	-	-	-	-
		06	-	-	-	-	-	-	-
		07	33	0	33	66	1	68	68
Concord Pike	zuid	08	1608	88	1784	2295	44	2383	2383
		09	80	6	92	130	2	134	134
		10	287	8	303	515	3	521	521
Mt Lebanon Rd	west	11	24	0	24	24	2	28	28
		12	297	13	323	409	0	409	409



Analysis

We have made calculations and sketches

- It is a very busy road and the space between the buildings, parking lots, and the roadway (near Mt. Lebanon Rd) is limited
- Good bike and pedestrian crossing over/under Concord Pike
- Three travel lanes per direction along Concord Pike is needed based on current demand
- Mt. Lebanon Rd – turning left (Concord Pike north): 2 lanes are needed (1 combined with through movement)
- Mt. Lebanon Rd - turning right (Concord Pike south): 2 lanes are preferred, however 1 lane is feasible resulting in longer queues during peak hours
- Concern with Concord Pike southbound traffic queue-spillback and blocking Concord Pike northbound left-turning traffic
- Creating space for separate cycle track and walkway

Mt. Lebanon Road Intersection

1. Quasi-Roundabout
2. Compact Intersection

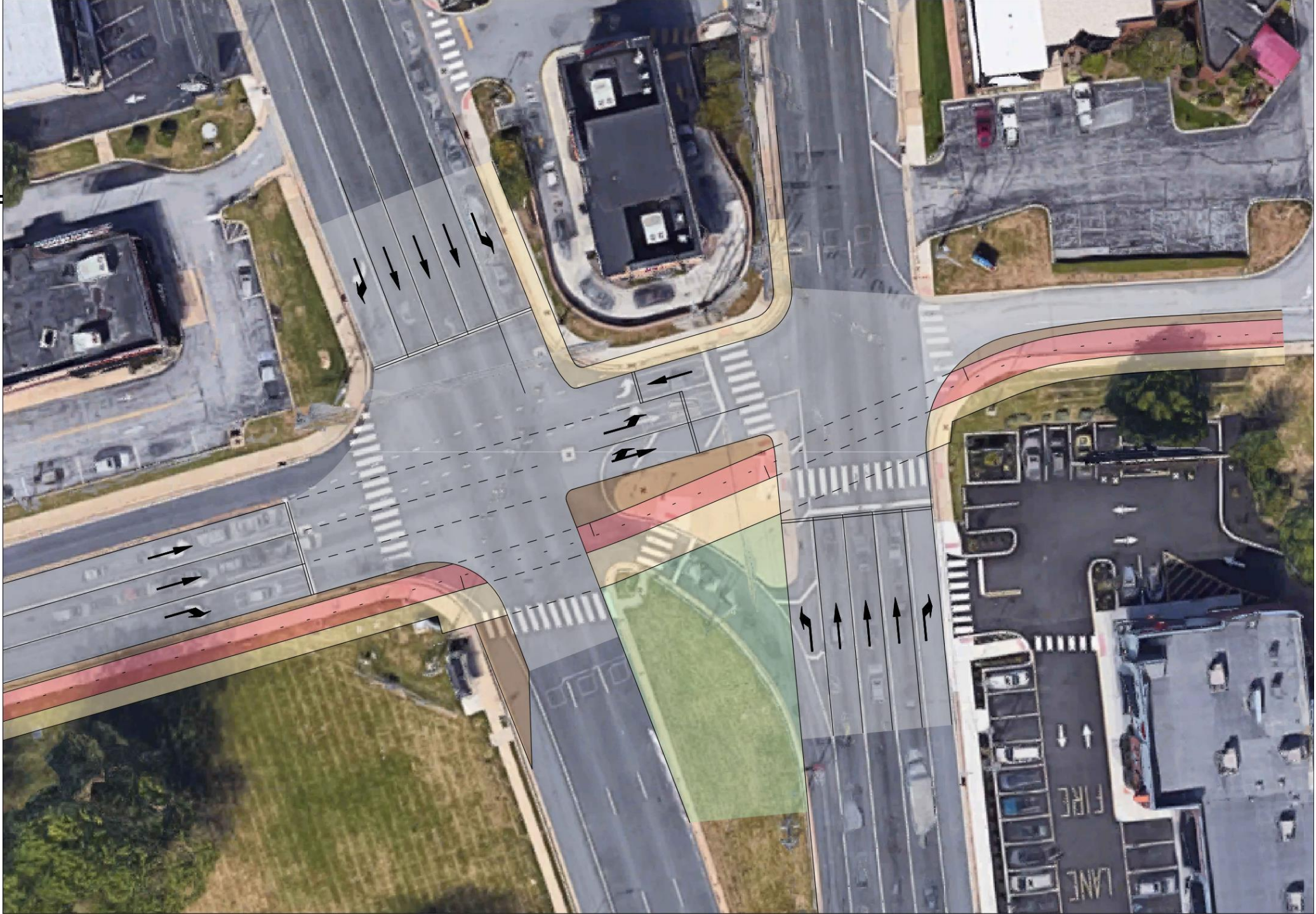
Quasi-Roundabout

- Traffic lights
- Quasi-roundabout - all vehicular traffic from Mt. Lebanon Road turns right before turning left
- Two travel-lanes on Mt. Lebanon Road approach are needed
- A 'tidy' solution, less fragmentation
- Creates space for bikes and pedestrians
- Safe and comfortable for the 'active-modes'
- Crossings for pedestrians at other locations are also possible



Compact Intersection

- Traffic lights
- More cost-effective by using a small zone just south of Mt. Lebanon Road for a cycle track with pedestrian facility
- A bridge or tunnel for bikes and pedestrians could be an alternative solution at the same location
- Northbound left-turn lane (from Concord Pike to Mt. Lebanon Road) is more clear and "quiet" for the active-modes
- More space for a safe and comfortable crossing
- More area available in the median for landscaping



Goudappel

MOBILITY MOVES US

Thank you!

Questions afterwards?

woppedijk@goudappel.nl (Wijnand Oppedijk)

rtavest@goudappel.nl (Richard ter Avest)



ADDITIONAL CONSIDERATIONS

- Dutch analysis focused on bike/ped connectivity
- Traffic operations and vehicle conflicts would need to be analyzed in more detail
- Additional options in the toolbox could be further explored to address vulnerable road users



DISCUSSION QUESTIONS

- What was the most interesting takeaway from the presentation?
- What are the challenges or opportunities for bike connectivity at these intersections?
- Do you think there is a need to evaluate options to separate the modes more at Mount Lebanon Road and Garden of Eden/Silverside Road?



SPRING PUBLIC WORKSHOP PREVIEW



SPRING PUBLIC WORKSHOP

- June 12, 4:00 – 6:00 PM
- Talleyville Fire Company – Station 25
3919 Concord Pike, Wilmington DE, 19803



**Help us spread
the word!**

SPRING PUBLIC WORKSHOP - STATIONS

- Brief presentation at 4:00 PM and repeated at 5:00 PM
- Highlights of 2023 Annual Concord Pike Monitoring Report
- Underpass Near Rocky Run
- Potential New Initiatives

OPEN DISCUSSION



NEW “MEETING CYCLE”

- Winter Meeting
 - Introduce Draft Monitoring Report to assist Committee in developing new initiatives and/or revised priorities
- Spring Meeting ← **We are here!**
 - Formalize new initiatives with the Committee and create draft addendum to the existing Plan
- Spring Public Workshop
 - Share the Monitoring Report with the public and introduce and seek feedback on the Committee’s ideas of new initiatives
- Summer
 - Agency partners will determine which new initiatives, if any, will be added to the Plan as an addendum
- Fall Meeting
 - Report back on prior year’s meeting cycle and inform the Committee of which initiatives will be added as an addendum or which existing initiatives may be (re)prioritized

AGENCY UPDATES

- WILMAPCO
- DeIDOT
- Delaware Transit Corporation
- NCC Department of Land Use



WILMAPCO:

- Draft FY2025 Unified Planning Work Program (UPWP) comment period is through May 13th, 2024
 - Includes Rocky Run Pathway Underpass Feasibility Study
- Transportation Improvement Program (TIP) comment period is through May 13th, 2024

DELDOT:

- Signal Improvements at the Intersection of US 202 and Independence Mall
 - Removal/Replacement of existing signal heads, cables, and signal controllers
 - New Flashing Red Arrow signal for the US 202 southbound left turn between 10 PM and 6 AM
 - Solid green/yellow/red arrows between 6 AM and 10 PM

DART:

- DART's Approved Service Change Effective May 19, 2024
 - Route Changes for 2, 11, 18, 28, and 61, in the Concord Pike area will have schedule adjustments to improve on-time performance and connections
- DART Reimagined Final Report published and available on www.DARTReimagined.com

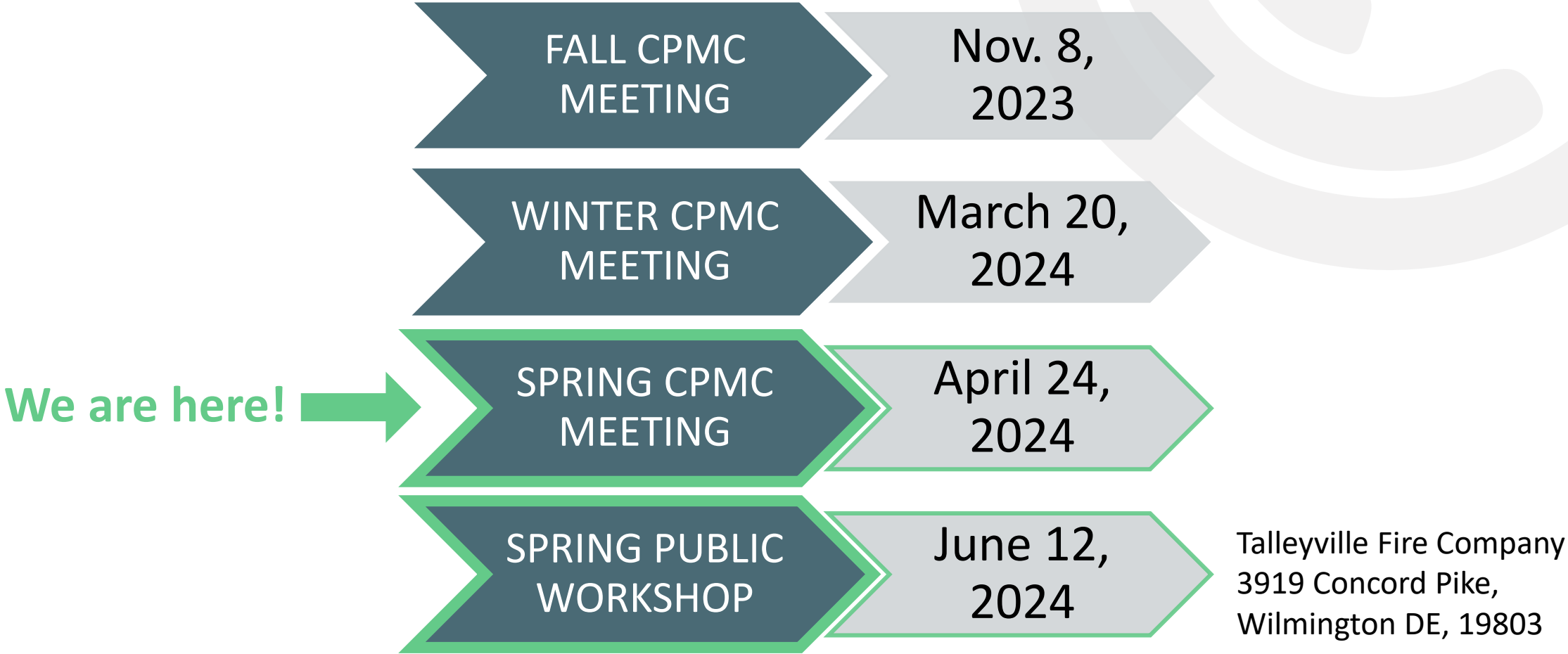
NCC DEPARTMENT OF LAND USE:

- Redevelopment Ordinance (Ordinance 24-057)
 - Community Development Area Incentives
 - Corridor Redevelopment
 - Redevelopment Provisions
 - Repurposing Vacant and Under-Utilized Office Space and Commercial Properties

NEXT STEPS



REVISED CPMC MEETING SCHEDULE

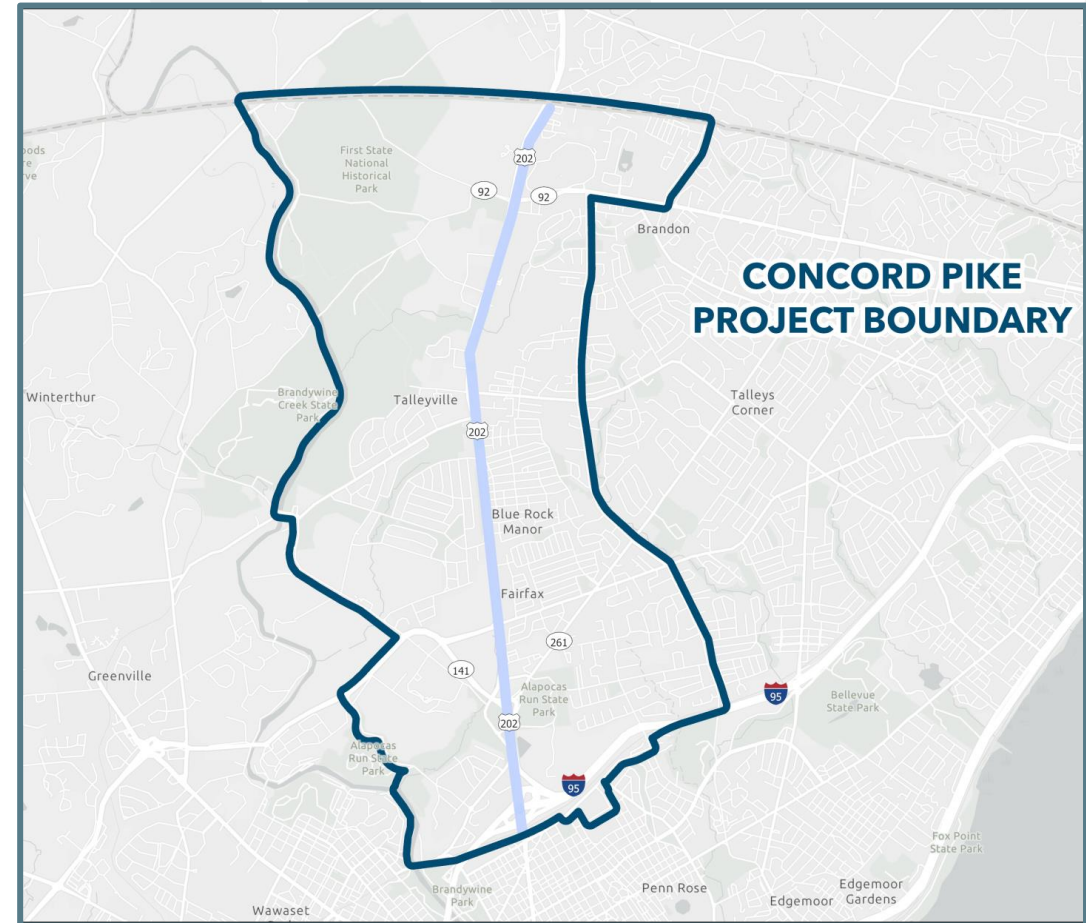


2023 ANNUAL MONITORING REPORT

- Summary of transportation and land use conditions and changes along the Concord Pike corridor
- Will be updated to include:
 - Spring CPMC meeting information
 - Spring Public Workshop information
 - Public comments received at the workshop
- Final report to be published in June 2024



bit.ly/concordpike2023



SUMMER ACTIVITIES

- Summer newsletter will include the Final 2023 Annual Concord Pike Monitoring Report
- Agency partners will determine which new initiatives, if any, will be added to the Plan as an addendum
- WILMAPCO will kick off Rocky Run Underpass Feasibility Study (if approved)

QUESTIONS?





Public
Comments

THANK YOU!



WILMAPCO.ORG/202-2

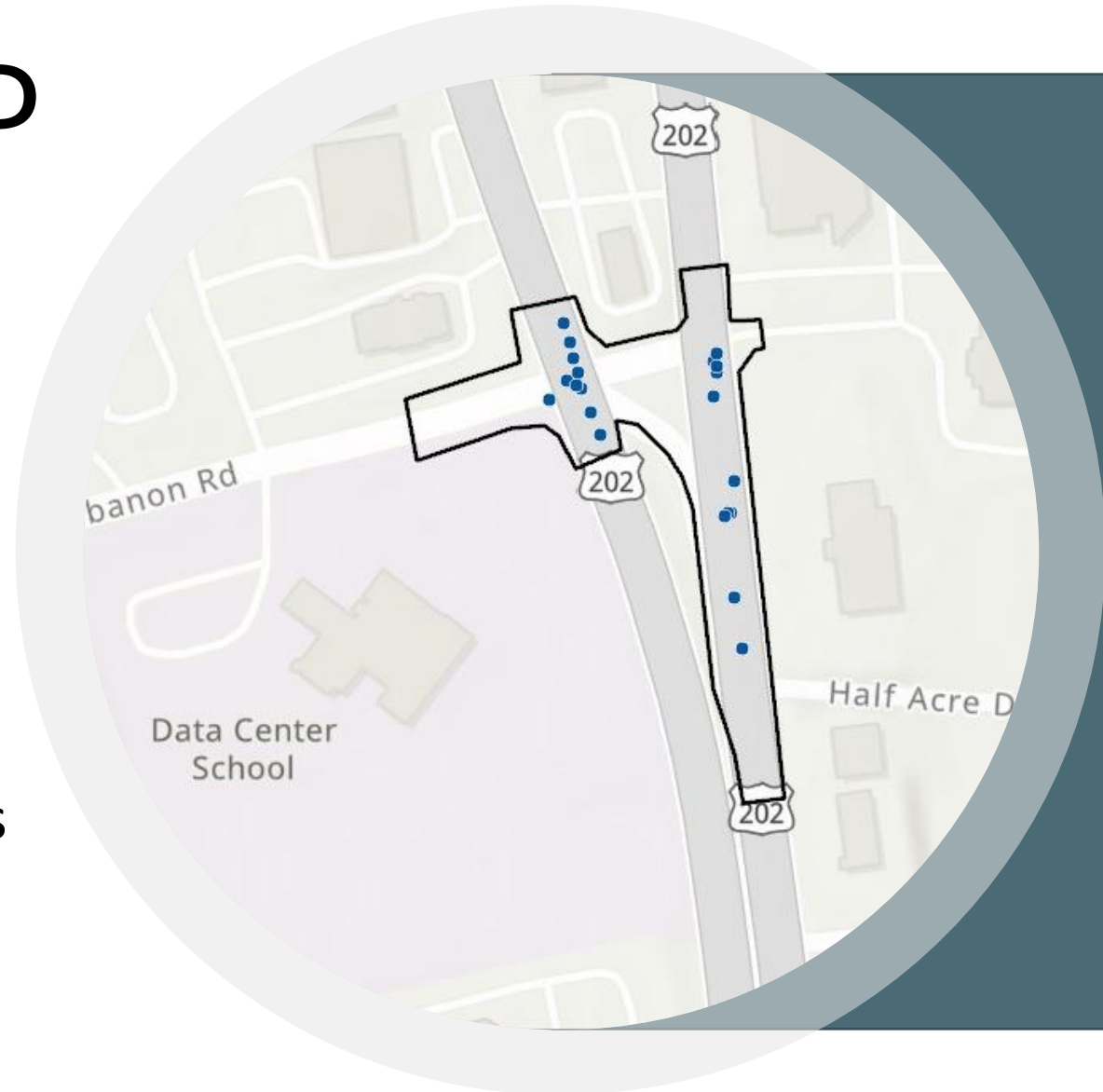


CONCORD PIKE CRASH ANALYSIS

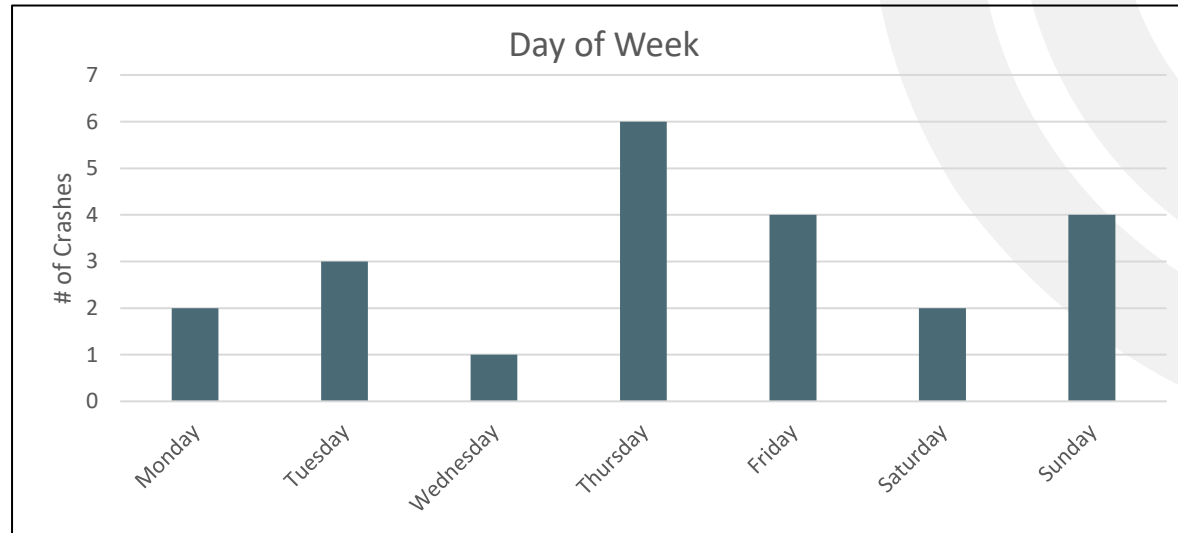


MT. LEBANON ROAD INTERSECTION

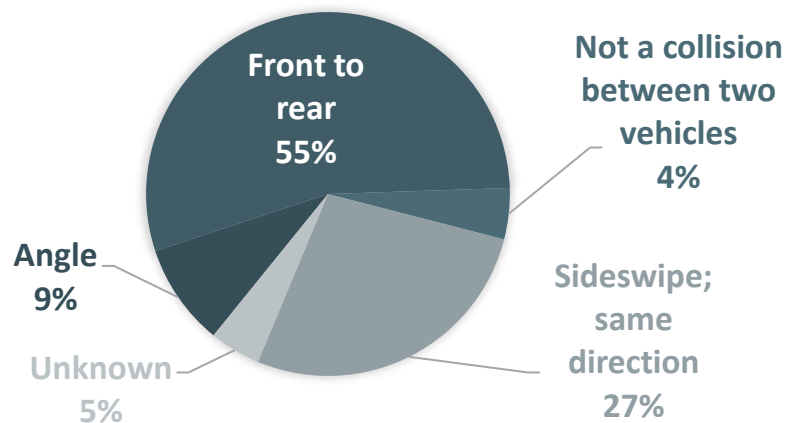
- 22 reported crashes between Jan. 1, 2020 and Dec. 31, 2022
- 5 crashes in 2020, 5 crashes in 2021, and 12 crashes in 2022
- 3 injury crashes reported, and 0 fatalities reported
- 0 pedestrian and bicycle crashes reported



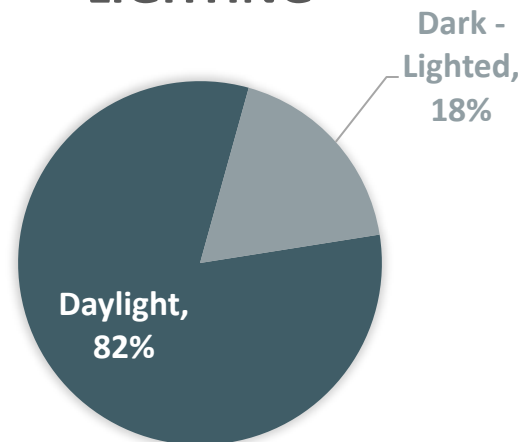
CRASH DATA



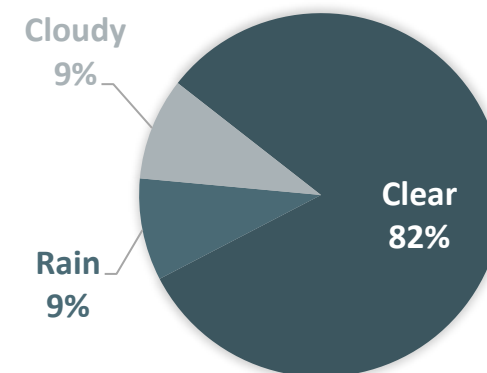
CRASH TYPE



LIGHTING

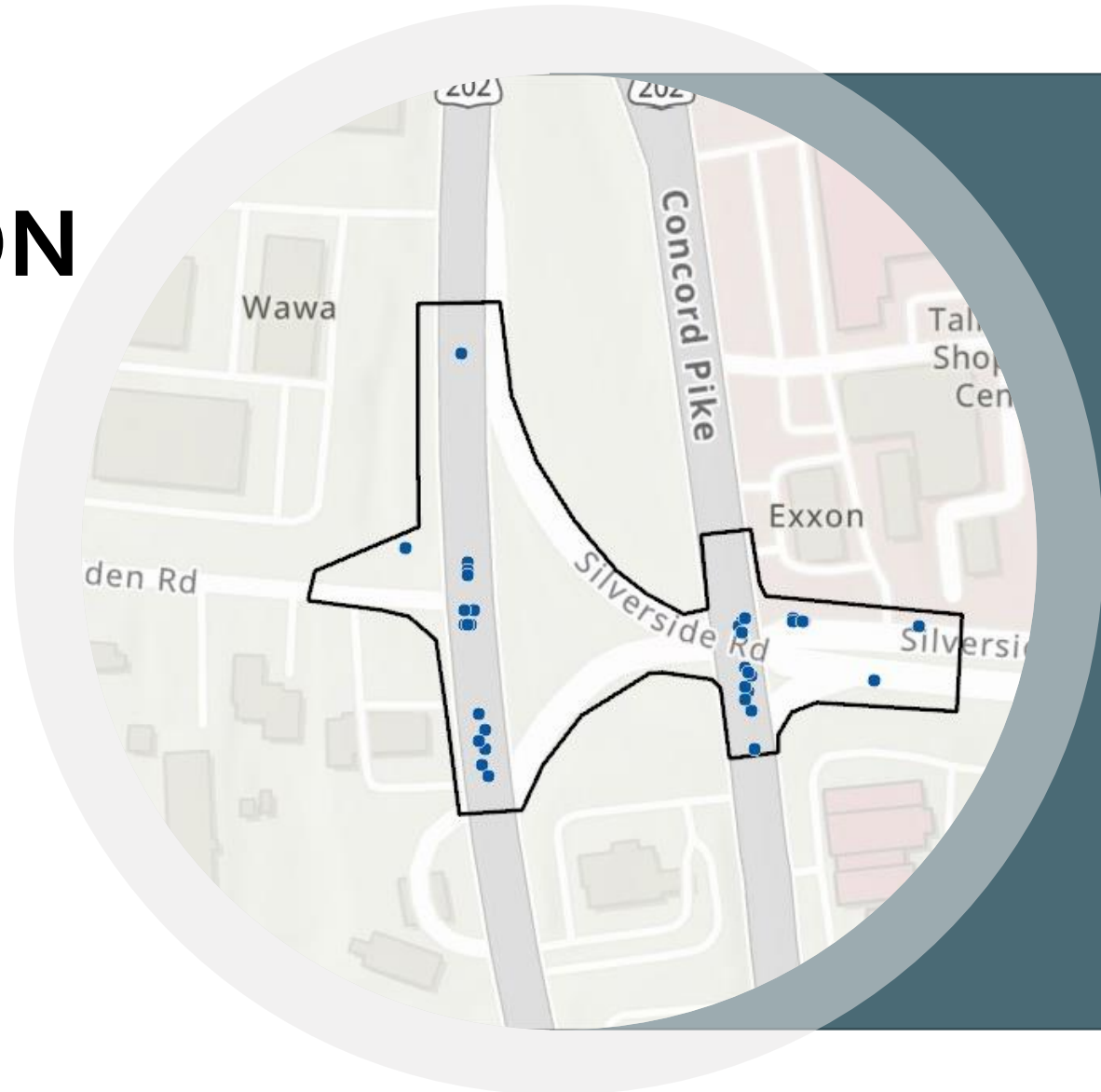


WEATHER

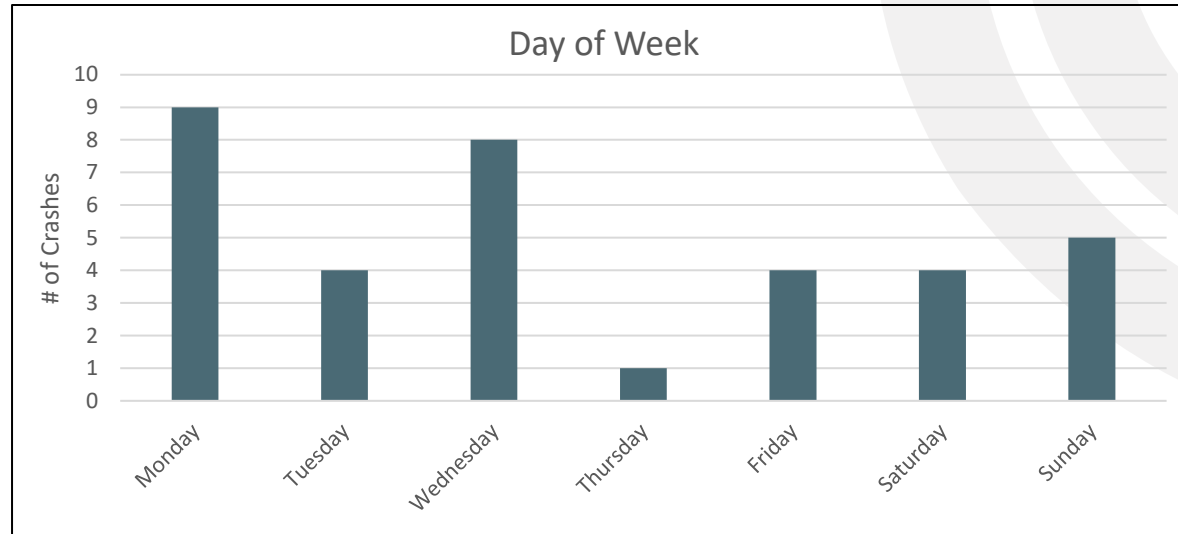


GARDEN OF EDEN ROAD/SILVERSIDE ROAD INTERSECTION

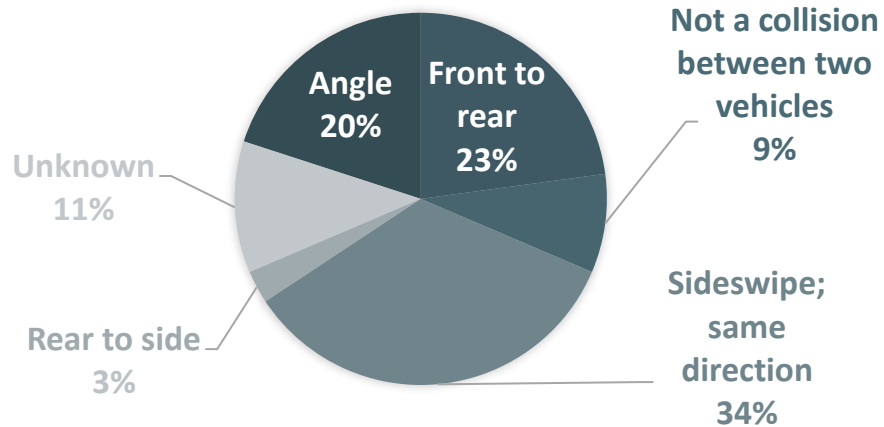
- 35 reported crashes between Jan. 1, 2020 and Dec. 31, 2022
- 13 crashes in 2020, 9 crashes in 2021, and 13 crashes in 2022
- 2 injury crashes reported, and 0 fatalities reported
- 1 pedestrian crash and 0 bicycle crashes reported



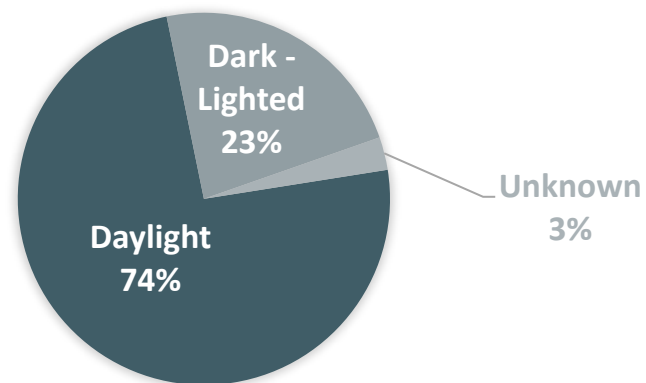
CRASH DATA



CRASH TYPE



LIGHTING



WEATHER

