

# WELCOME TO THE WINTER 2024 CONCORD PIKE MONITORING COMMITTEE MEETING!

## THE MEETING WILL BEGIN AT 4:00 PM

MARCH 20, 2024



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# AGENDA

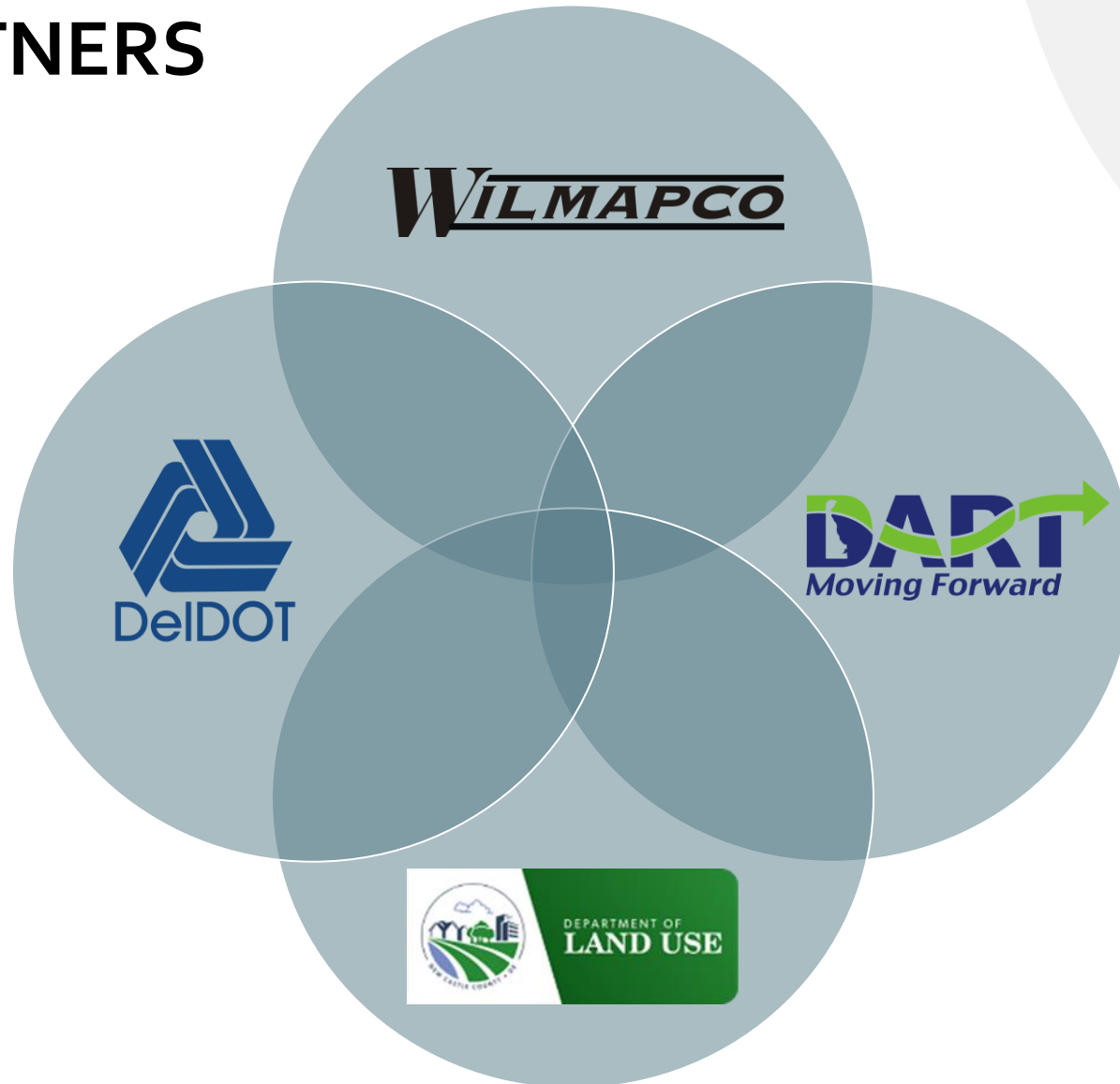
- Welcome and Introductions
- New CPMC Framework
- Draft 2023 Annual Concord Pike Monitoring Report
- Spotlight Topic: Underpass Near Rocky Run
- Agency Updates
  - DeIDOT
  - Delaware Transit Corporation
  - NCC Department of Land Use
- Open Discussion
- Next Steps
- Public Comment



# INTRODUCTIONS



# PROJECT PARTNERS



Concord Pike Monitoring Committee

# 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: Joshua Thomas
- 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

# NEW CPMC FRAMEWORK



## GOAL OF THE 2023-2024 CPMC



**Advance Concord Pike  
Master Plan Projects**



# HOW WE WILL ACCOMPLISH OUR GOAL

**Monitoring**

**Advocating**



**Sharing**

**Discussing**

# HOW WE WILL ACCOMPLISH OUR GOAL

**By monitoring, sharing, discussing, advocating...**

- Concord Pike Corridor Master Plan – Recommendations
- Spotlight Topics
- Agency Updates at each CPMC Meeting
- 2023 Annual Monitoring Report
- Spring 2024 Public Workshop

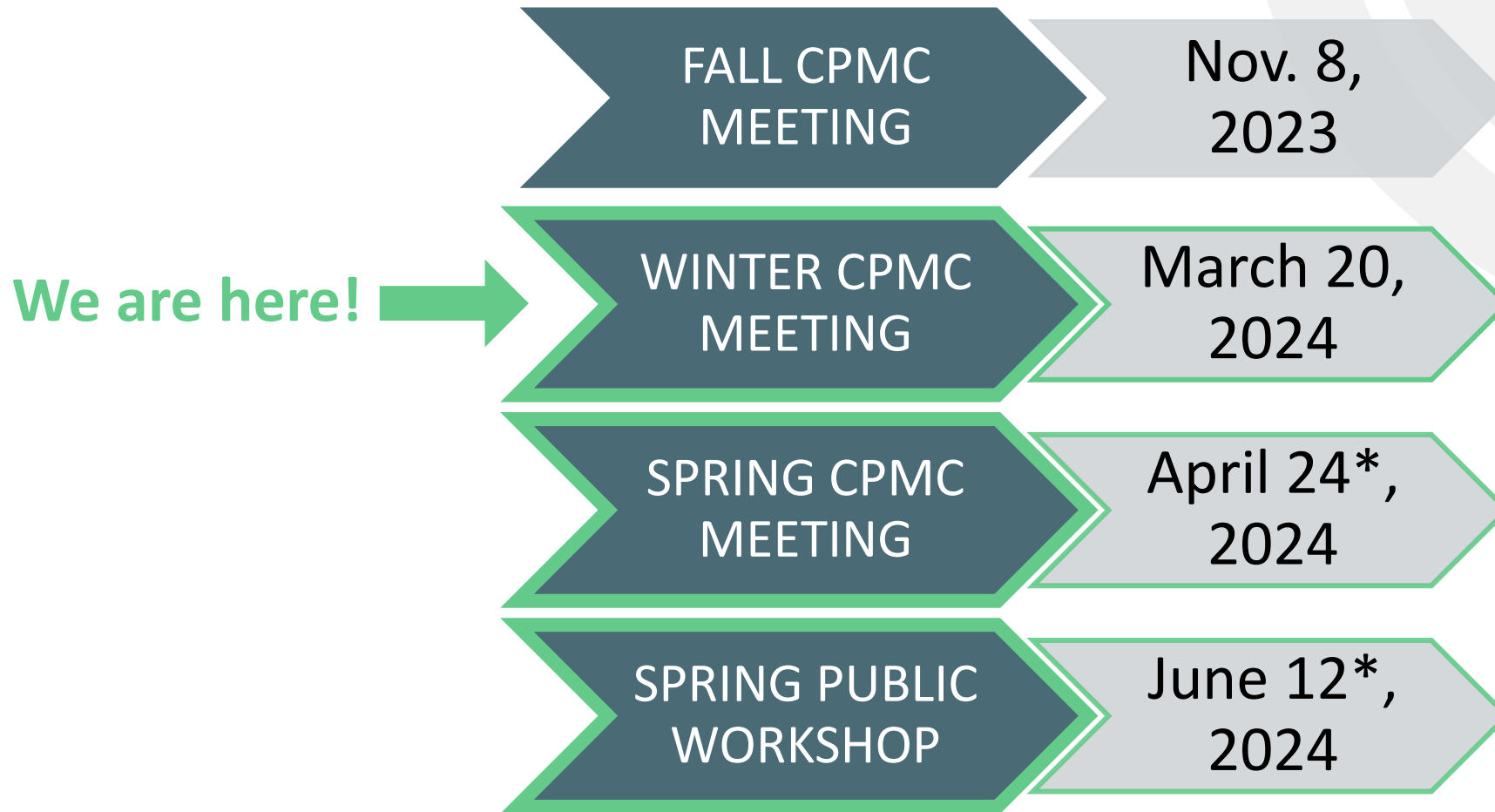
# NEW FRAMEWORK

- More active role of Committee members in working with the project team to advance projects and studies, and help move forward other initiatives along the Concord Pike corridor
- New framework will allow Committee members and the public to both:
  - Bring new ideas not currently in the Plan Update to agency partners for possible inclusion into an “addendum” to the existing Plan
  - Continue to prioritize or highlight existing projects and studies currently in the Plan

# NEW “MEETING CYCLE”

- Winter Meeting ← **We are here!**
  - Introduce Draft Monitoring Report to assist Committee in developing new initiatives and/or revised priorities
- Spring Meeting
  - 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

# REVISED CPMC MEETING SCHEDULE



\*Dates to be confirmed

# DRAFT 2023 ANNUAL CONCORD PIKE MONITORING REPORT

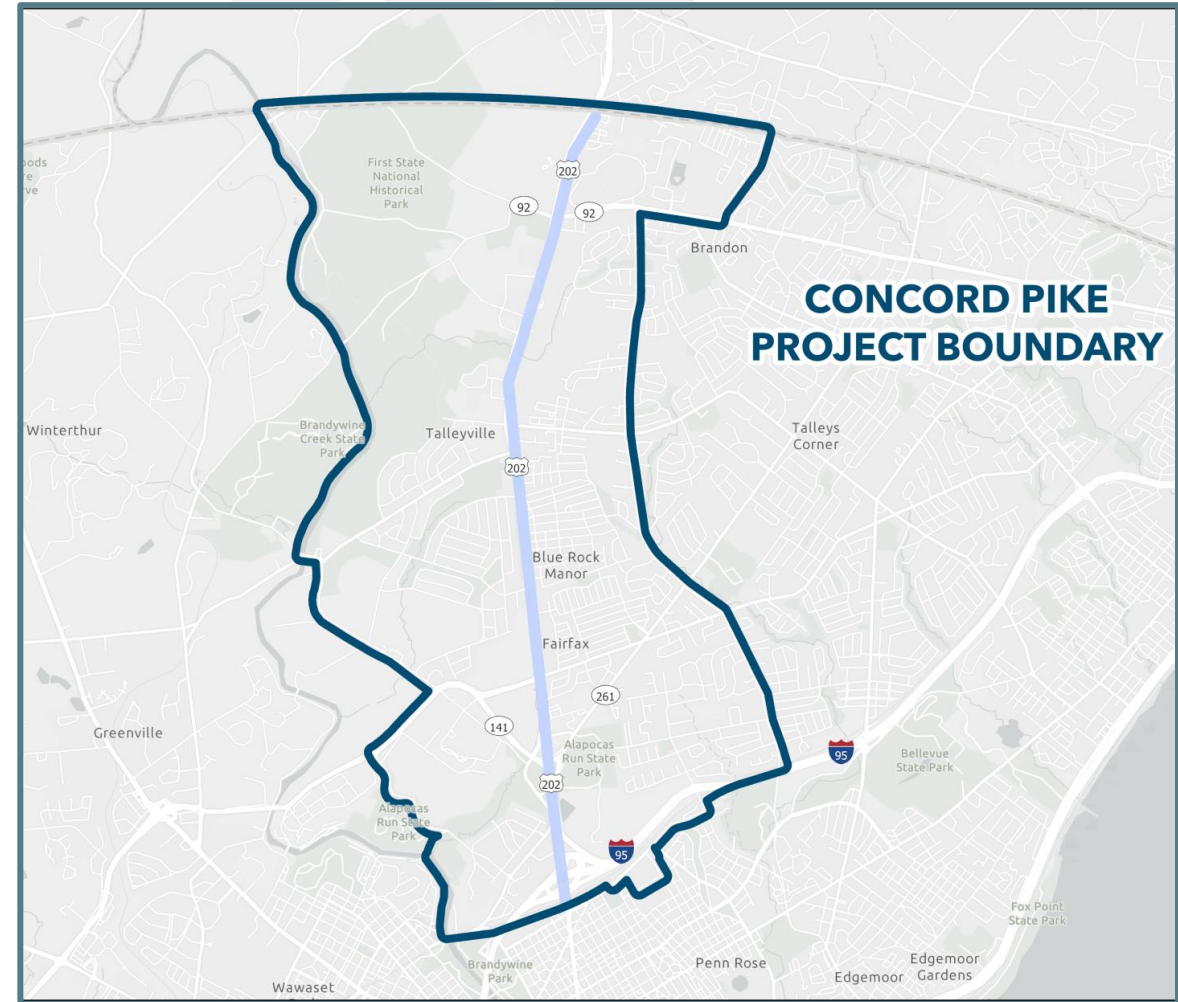


# ANNUAL MONITORING REPORT

- Summary of transportation and land use conditions and changes along the Concord Pike corridor
- Uses an interactive GIS based “Story Map” format for users to explore and understand the data more than a static printed report
- Will be a “living document” that evolves over time, as conditions change



[bit.ly/concordpike2023](https://bit.ly/concordpike2023)



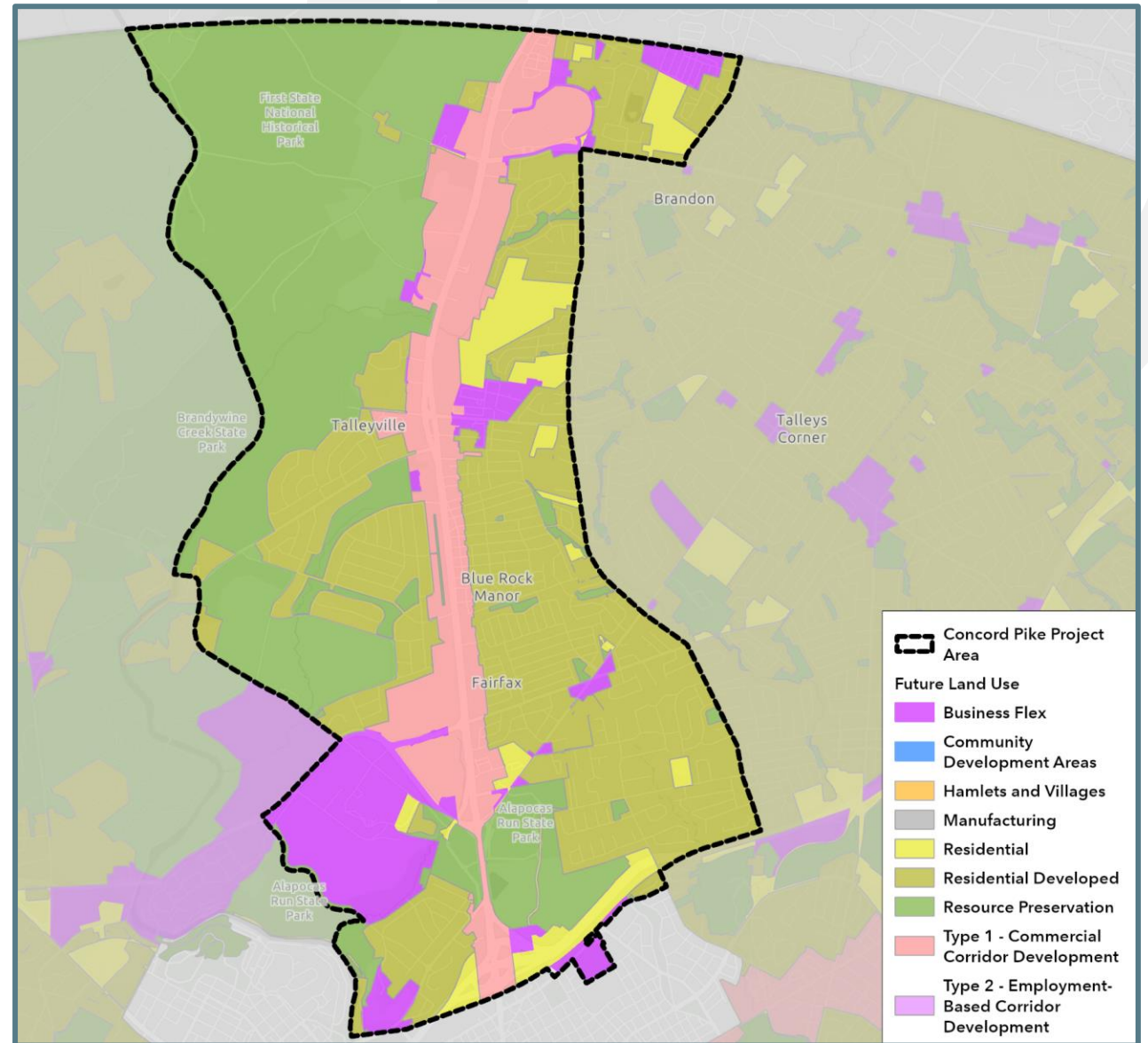
# ANNUAL MONITORING REPORT

- Elements being monitored include:
  - Land Development
  - Traffic
  - Pedestrian/Bike
  - Transit
  - Safety
  - Master Plan Project Status
  - Recommendations
- Supports the CPMC in providing input on priorities and small, mid-course corrections as conditions evolve over time



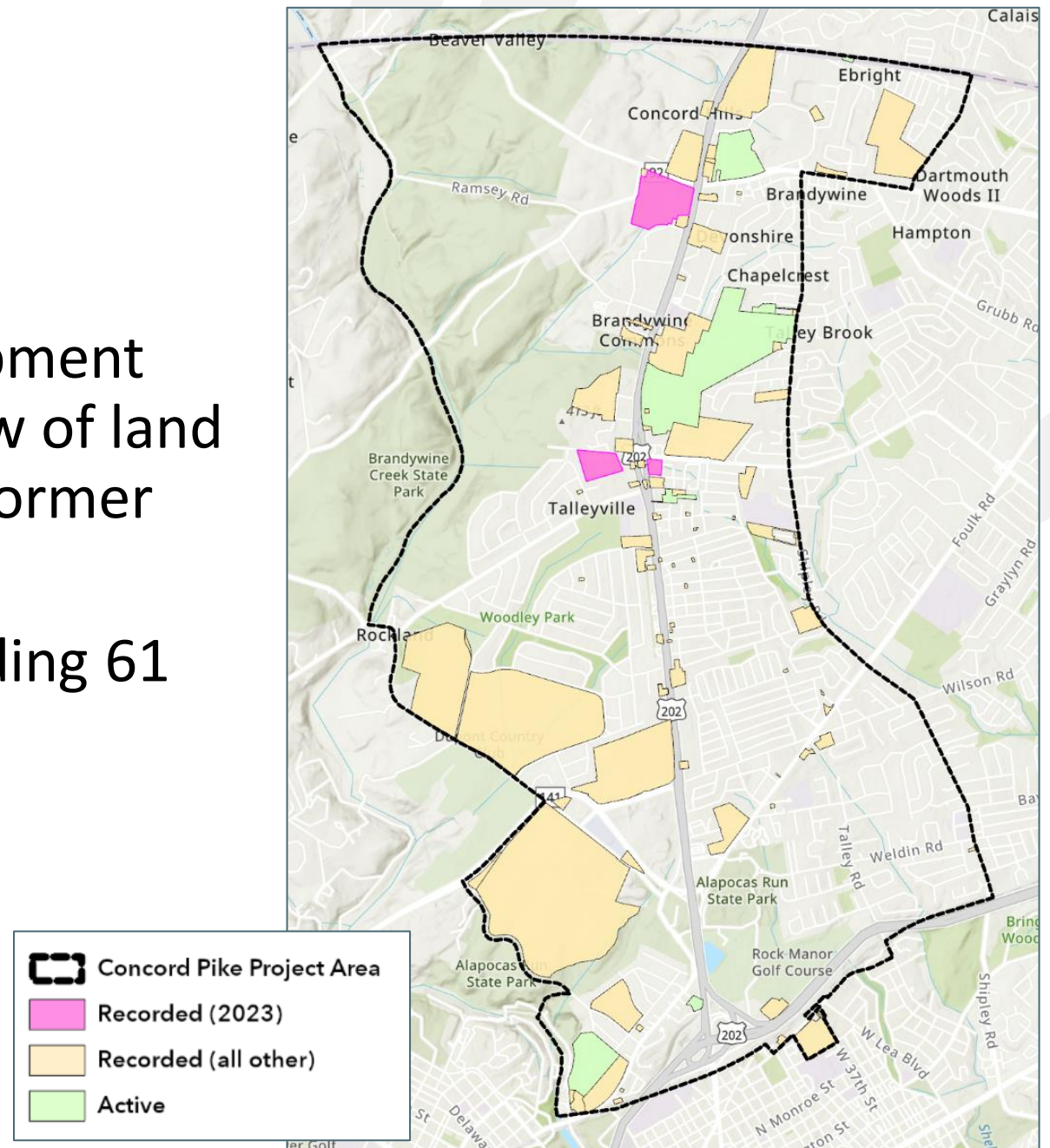
# LAND DEVELOPMENT: FUTURE LAND USE

- NCC's 2050 update to its Comprehensive Plan notes future development along the Corridor as Type 1 - Commercial Corridor Development
- This includes:
  - Tight integration of jobs and services with adjacent residential neighborhoods
  - Non-Residential Zoned Land Uses
  - Residential Zoned Land Uses



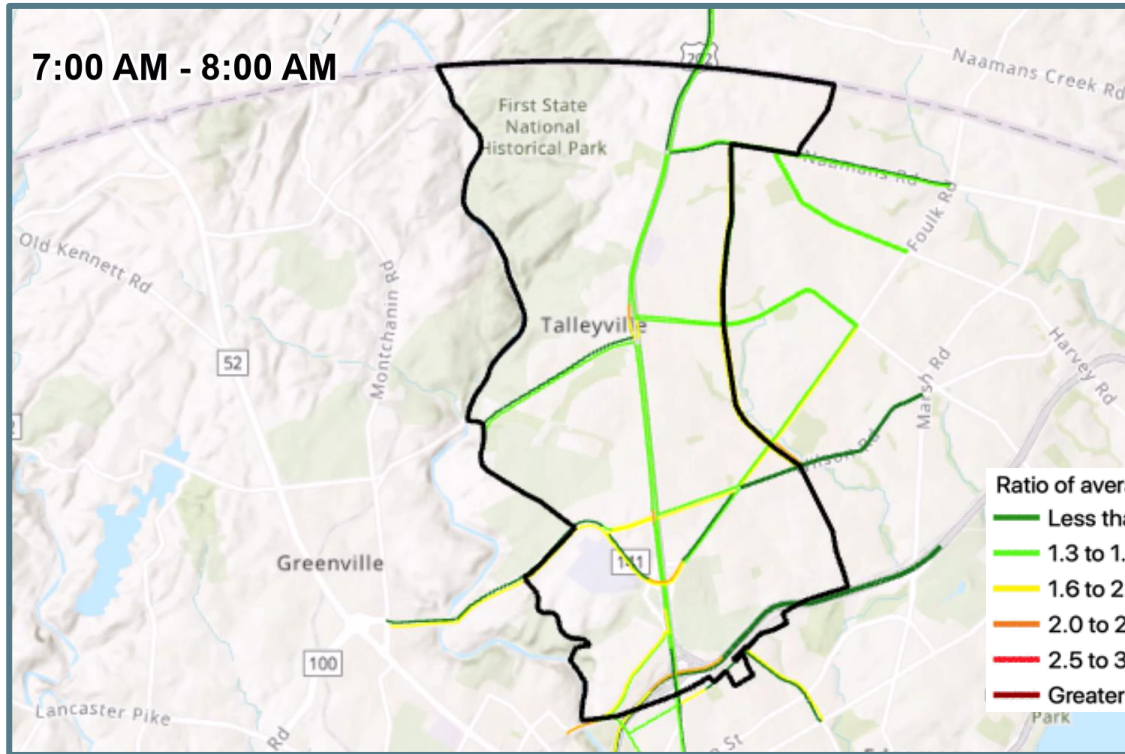
# LAND DEVELOPMENT: DEVELOPMENT ACTIVITY

- In 2023, the largest land development activity was the continued review of land development proposals for the former Brandywine Country Club site.
- 3 recorded developments, including 61 residential dwelling units

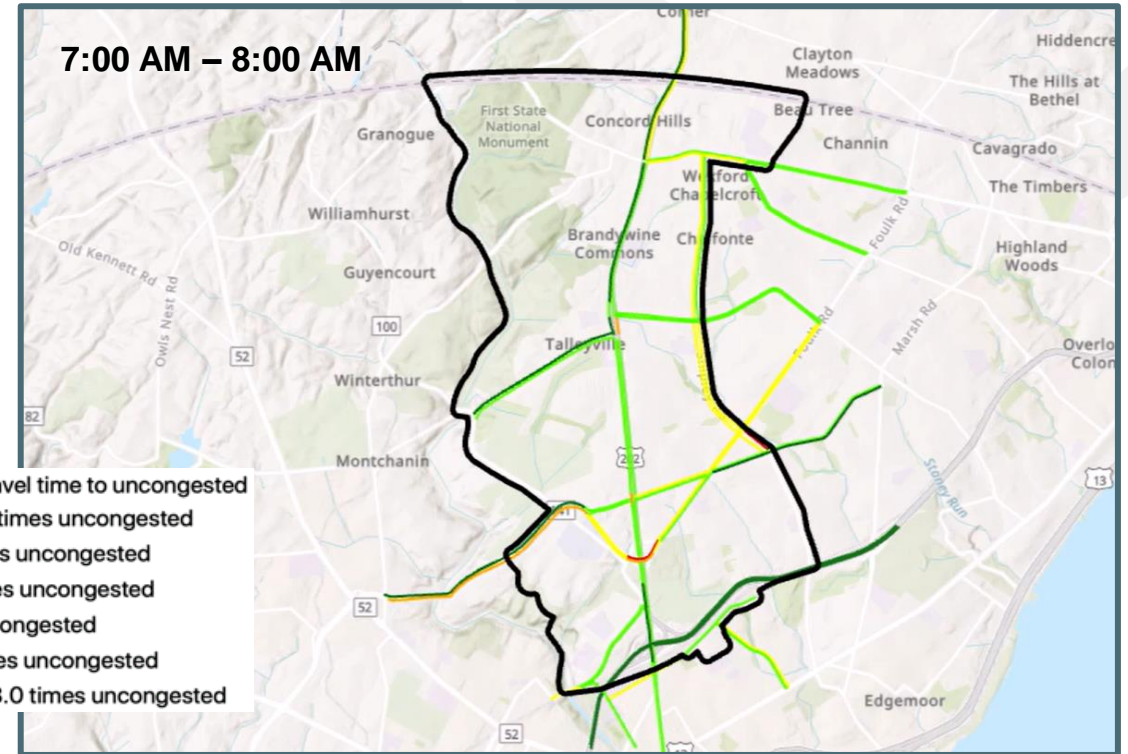


# TRAFFIC: HOURLY TRAVEL TIME INDEX – AM PEAK

## 2022



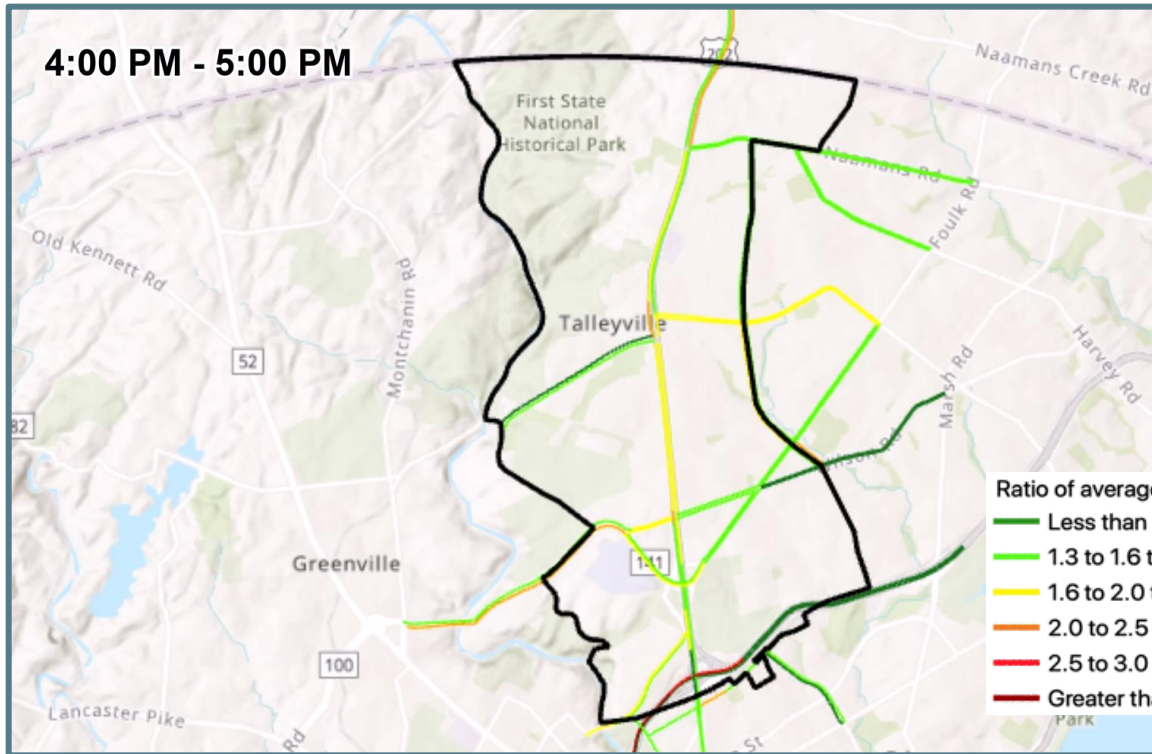
## 2023



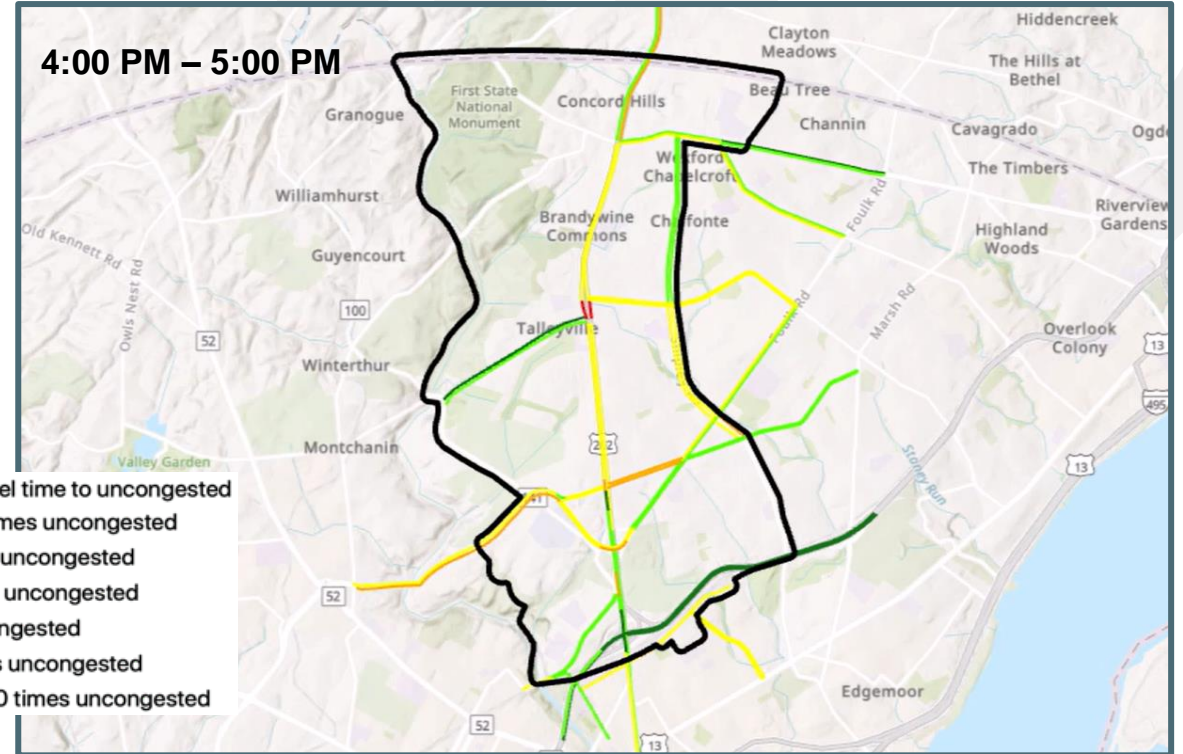
- Mild to moderate congestion throughout the day

# TRAFFIC: HOURLY TRAVEL TIME INDEX – PM PEAK

## 2022



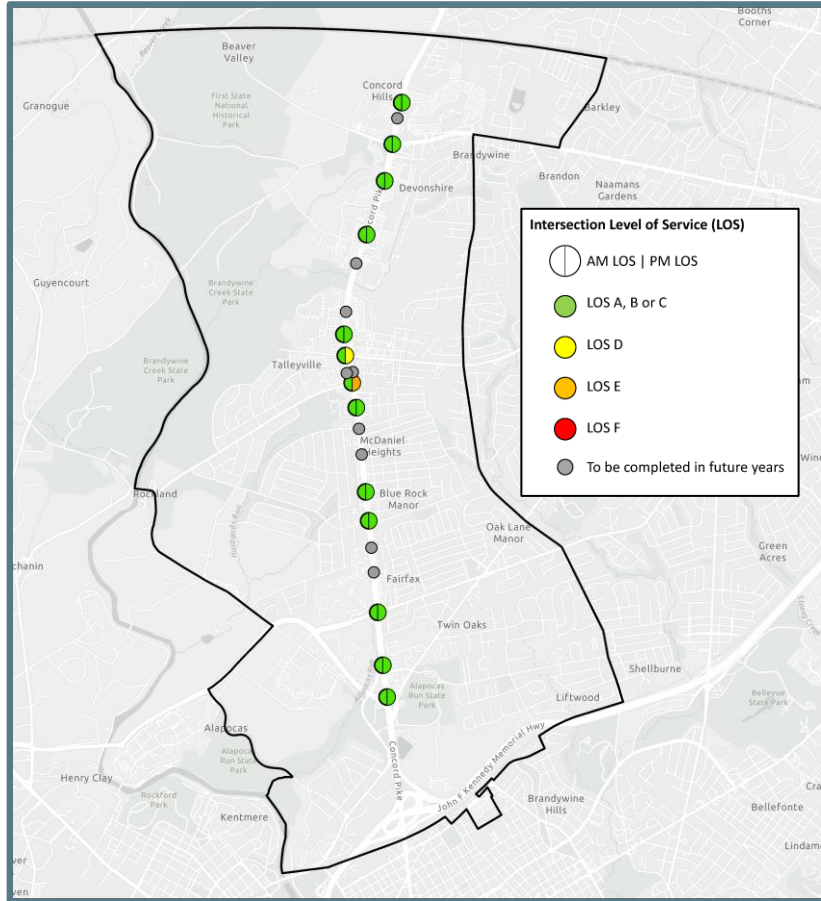
## 2023



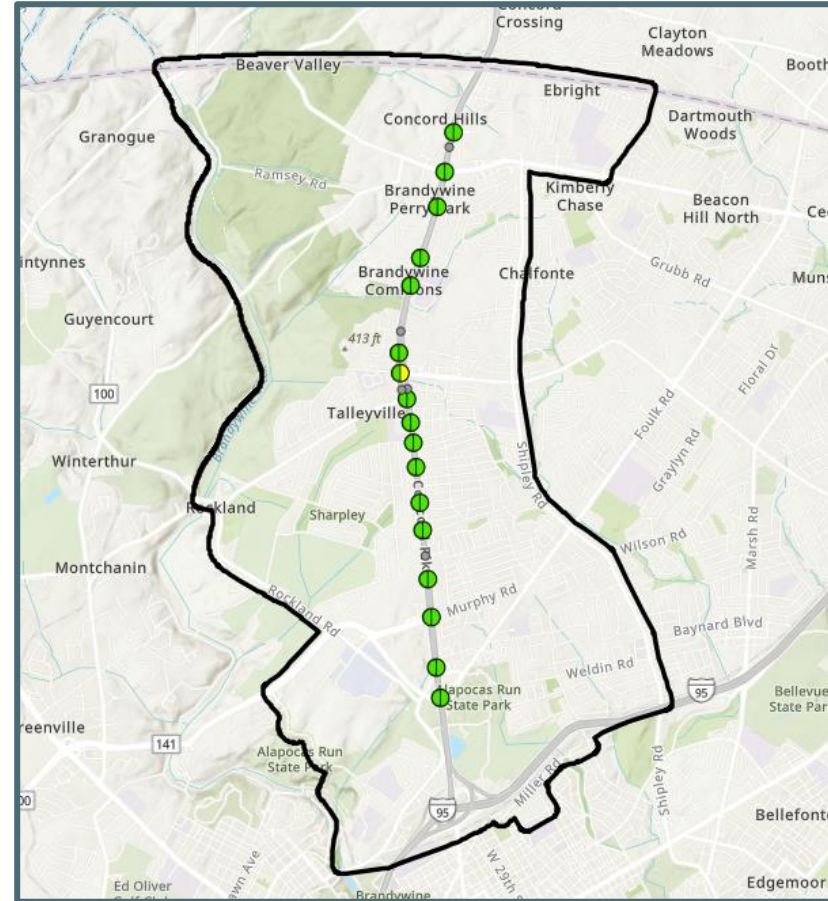
- More severe congestion during the PM peak
- Free-flow speed increased from 2022 to 2023
  - Although the speeds in the peak periods did not change much, TTI values are higher because speeds increased during periods when there is no congestion

# TRAFFIC: INTERSECTION LEVEL OF SERVICE

2022



2023

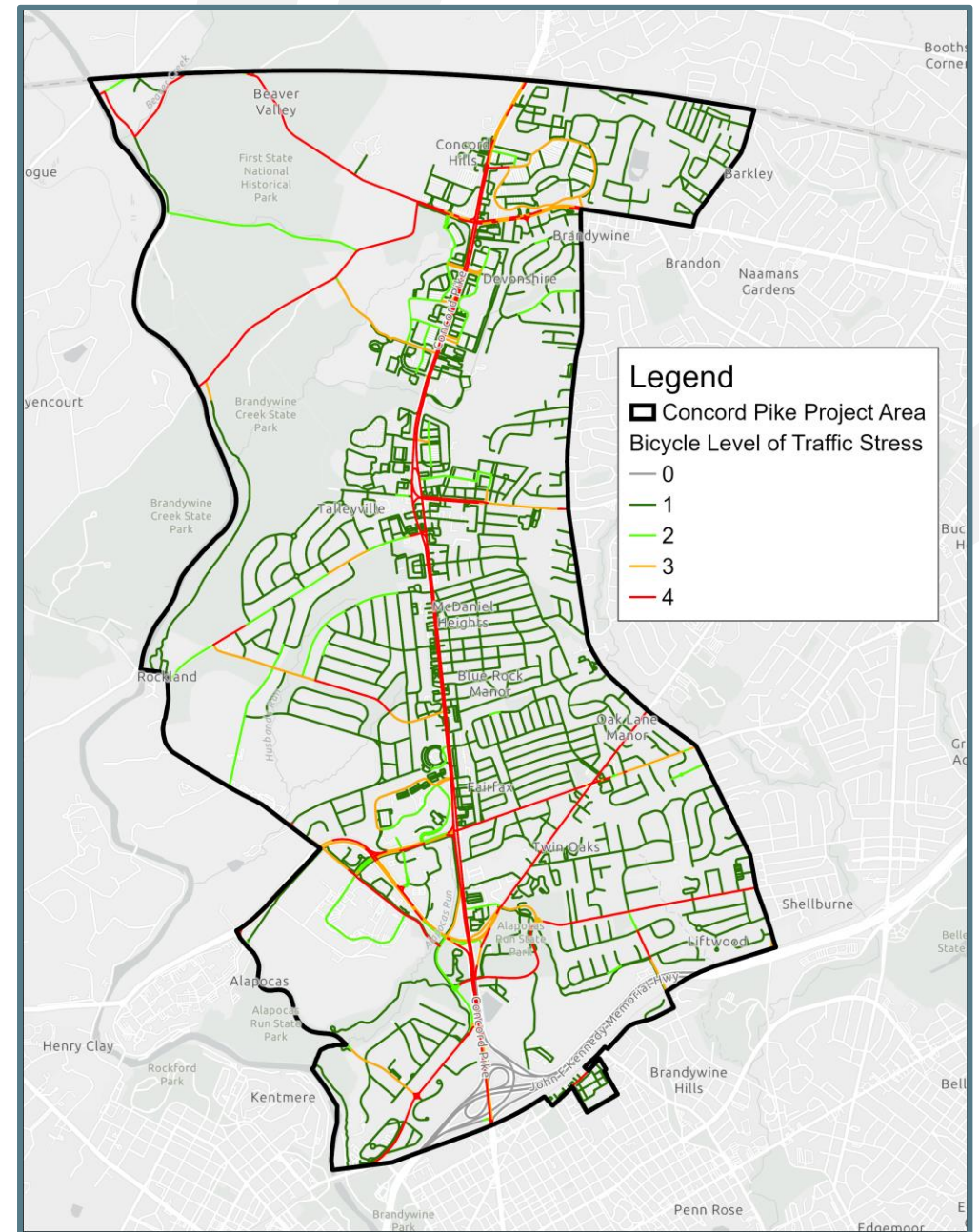


- Two intersections operated worse than a LOS C during the PM peak in 2022

- One intersection operated worse than a LOS C during the PM peak in 2023

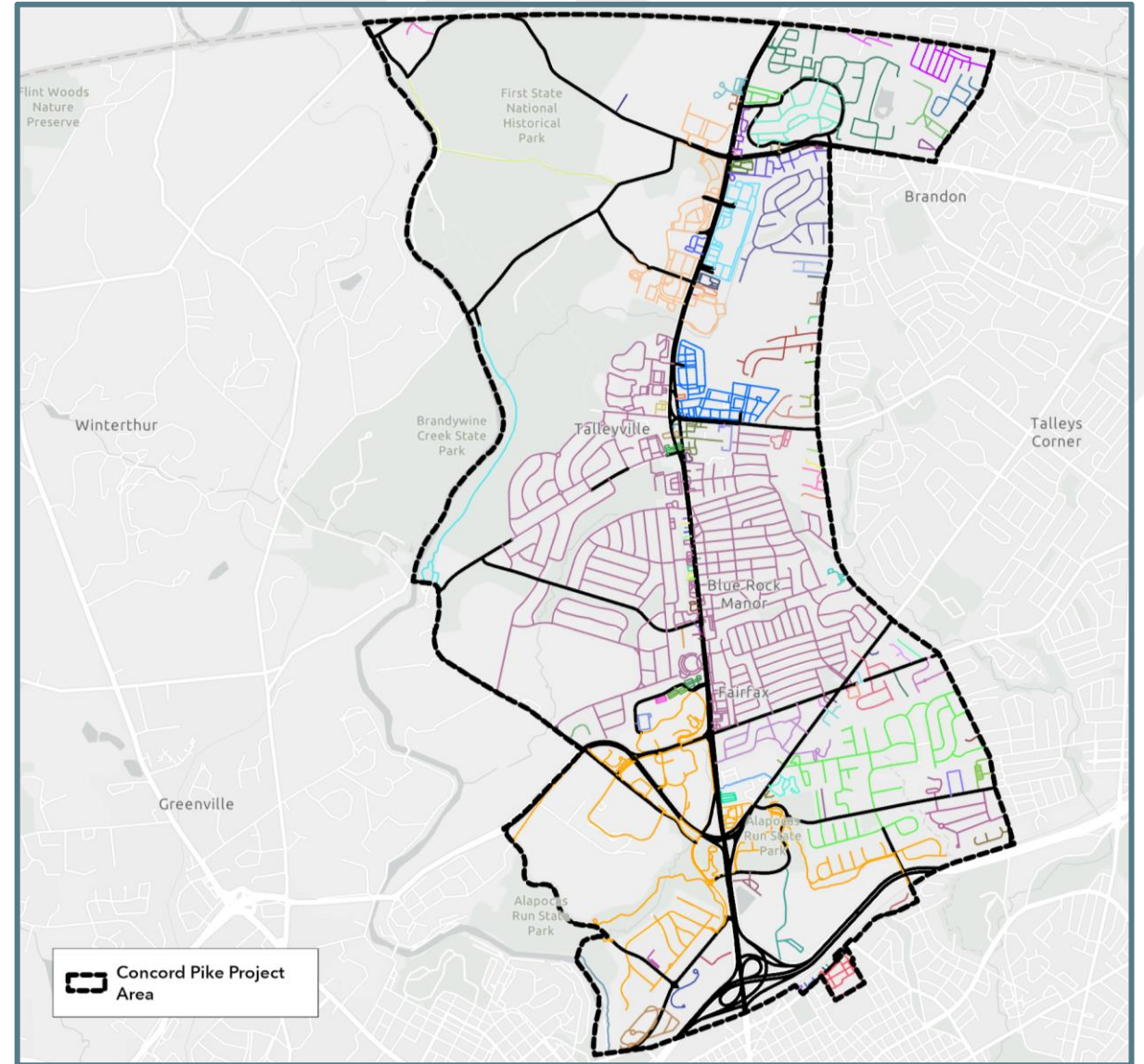
# BICYCLE AND PEDESTRIAN: LEVEL OF TRAFFIC STRESS

- Measure used to understand how comfortable a roadway is for bicycle riding
- LTS 1 streets have the lowest stress, suitable for most riders
- Higher LTS correspond to riders with more experience and willingness to tolerate some stress, traffic, and speed
- No change since 2022

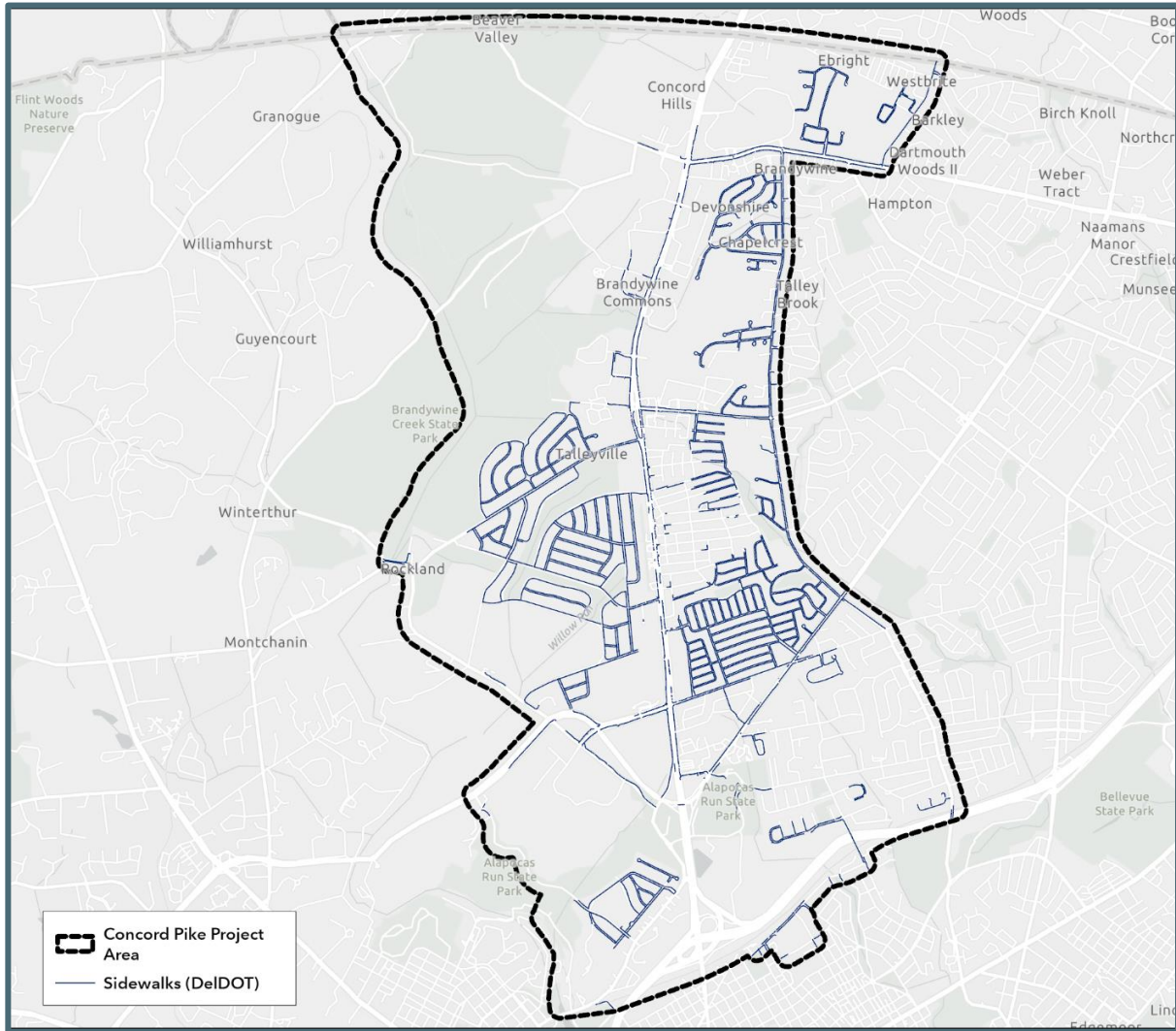


# BICYCLE AND PEDESTRIAN: LEVEL OF TRAFFIC STRESS

- LTS has not changed and no new bicycle connections to link islands together have been made
- Same **130** unique low-stress islands as in 2022



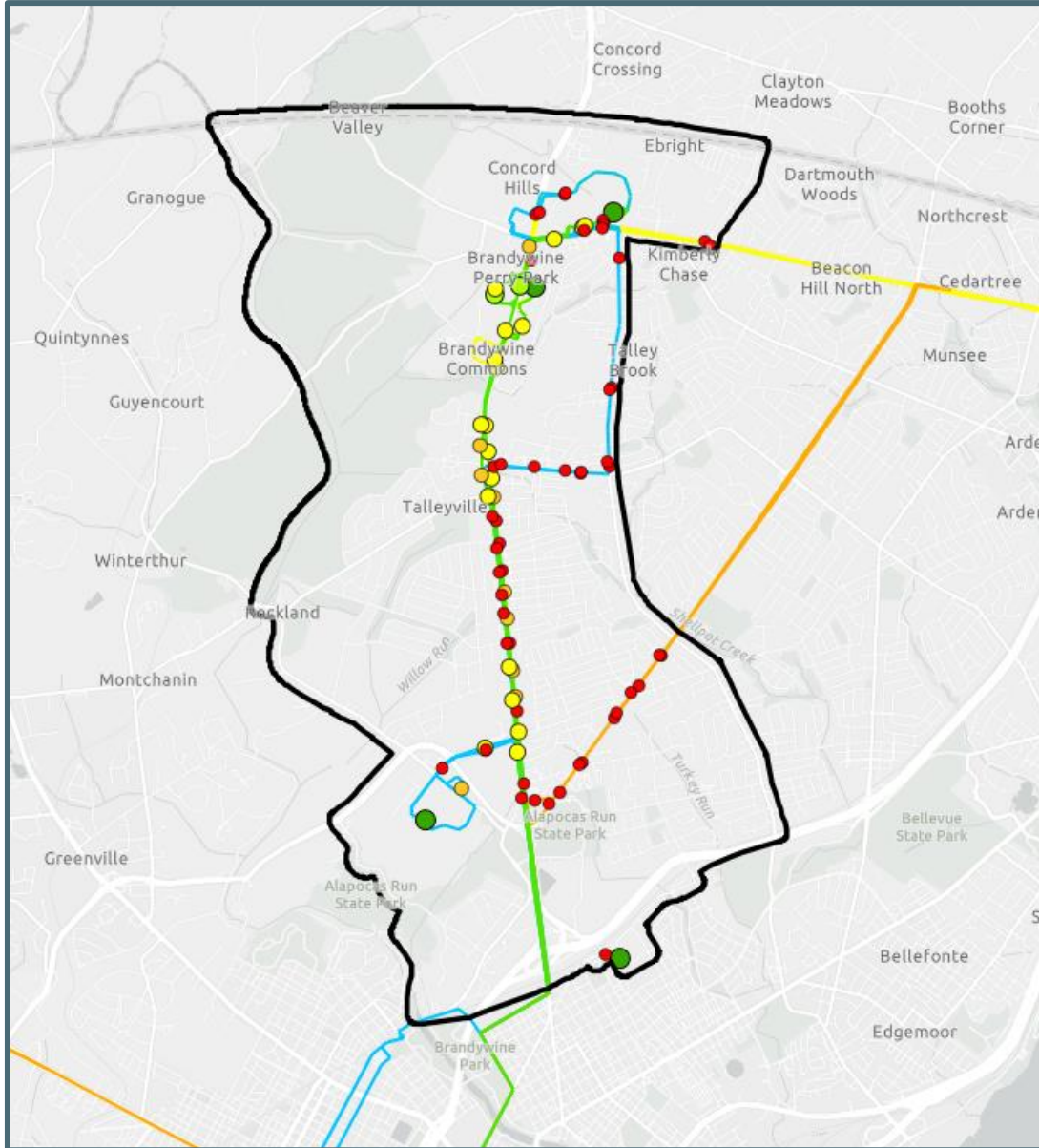
# BICYCLE AND PEDESTRIAN: SIDEWALK INVENTORY



- Delaware Multi-Modal Pedestrian Network
- No new sidewalks were constructed in 2023
- In future years, this will be updated to show where additional sidewalks have been added



# TRANSIT: OVERVIEW



NUMBER OF WEEKDAY TRIPS WITHIN STUDY AREA AT PEAK TIMES		
ROUTE	AM PEAK (6 AM TO 9 AM)	PM PEAK (3 PM TO 6 PM)
2	13	17
18	8	7
28	9	11
35	2	2
61	6	6

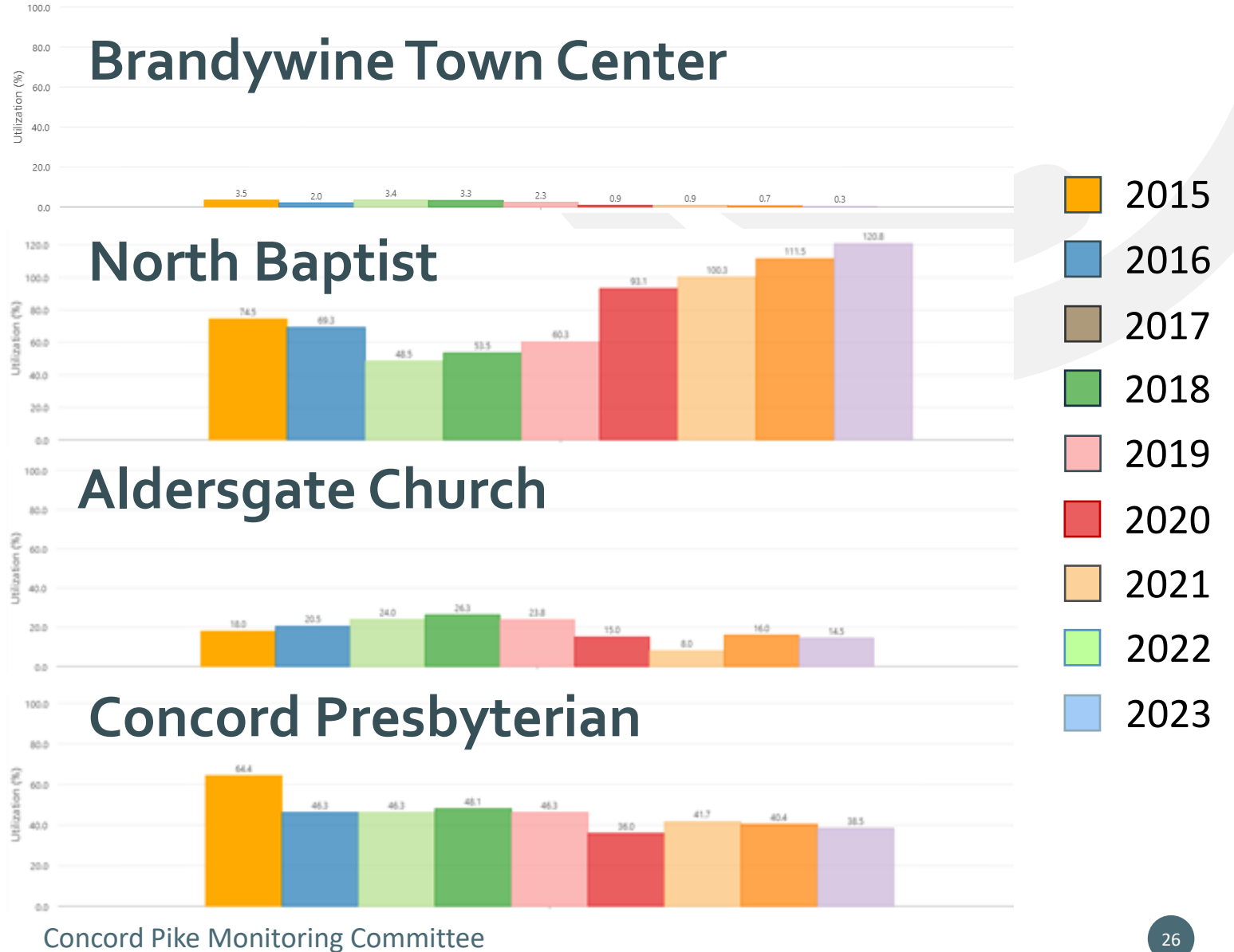
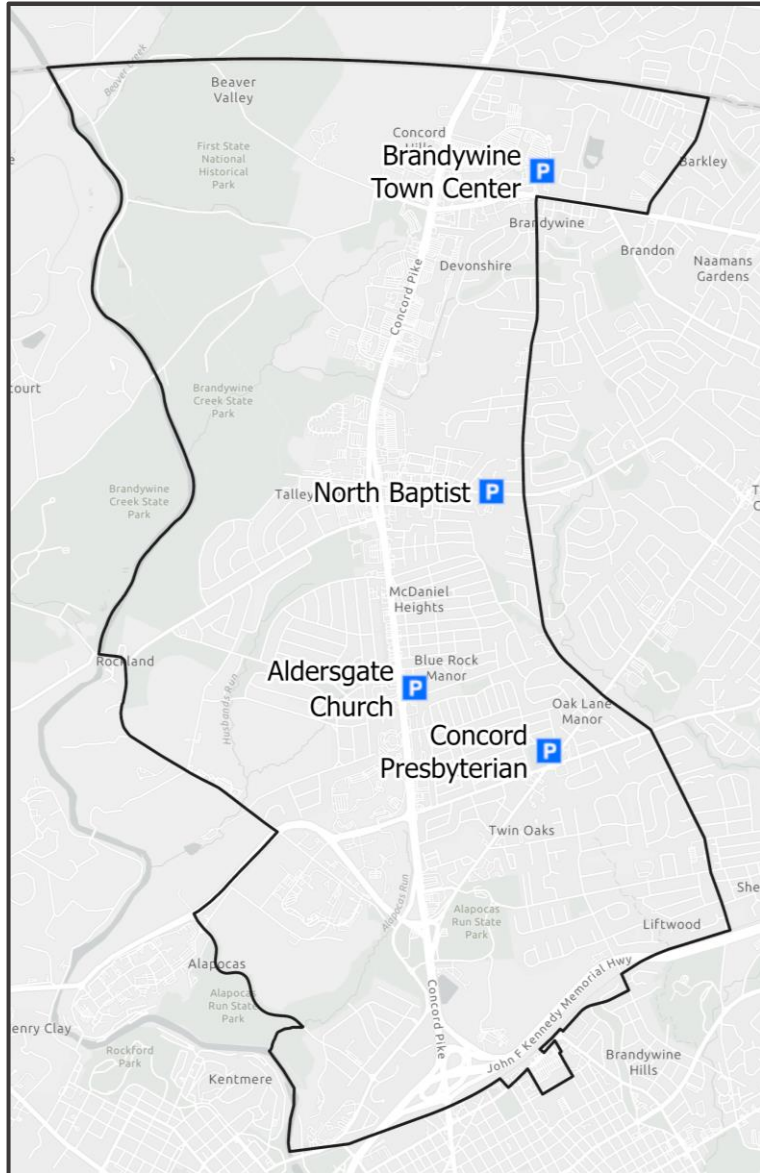
**Bus Stop**  
Ridership (Selected Year)

- > 100
- 50 - 100
- 20 - 50
- 10 - 20
- < 10

**Bus Route**  
Ridership (Selected Year)

- > 250,000
- 75,000 - 250,000
- 20,000 - 75,000
- < 20000

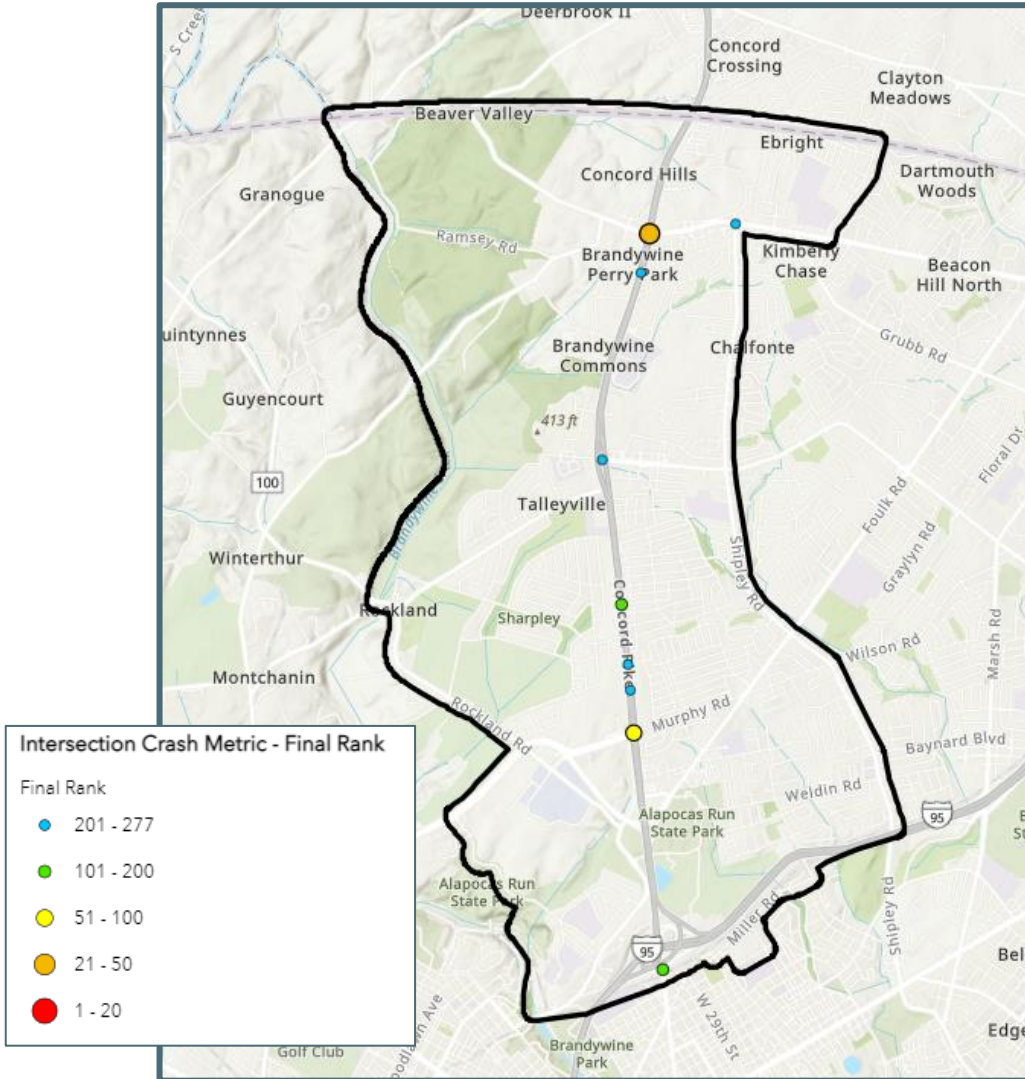
# TRANSIT: PARK AND RIDE UTILIZATION



# SAFETY: CRASH SUMMARY

- 1,613 total crashes between January 1, 2020 and December 31, 2022
- Crashes along I-95 accounted for approximately 18% of total crashes
- 10 pedestrian and 5 bicycle crashes

# SAFETY: INTERSECTION CRASH METRICS



- Intersections ranked on crash frequency, severity, and manner of impact
- 277 intersections statewide that had at least 10 crashes annually over the past 3 years (2020-2022)
- 2 intersections were in the Top 100 in the overall statewide rankings:
  - #44 Concord Pike at SR 92 (Naamans Road) (previously #58)
  - #70 Concord Pike at Powder Mill Road / Murphy Road (previously #48)

# RECOMMENDATIONS

- Continue monitoring transportation and land use in the Concord Pike corridor is recommended to continue next year and in future years, in support of the implementation of the Concord Pike Master Plan
- In 2024, Project Partners should utilize the input of establishing initial priorities from the Monitoring Committee to support funding in the CTP and TIP
- DelDOT and DTC should continue working with New Castle County's Department of Land Use in reviewing active development plans, including the redevelopment of the Brandywine Country Club, to look for opportunities to implement recommendations of the Master Plan

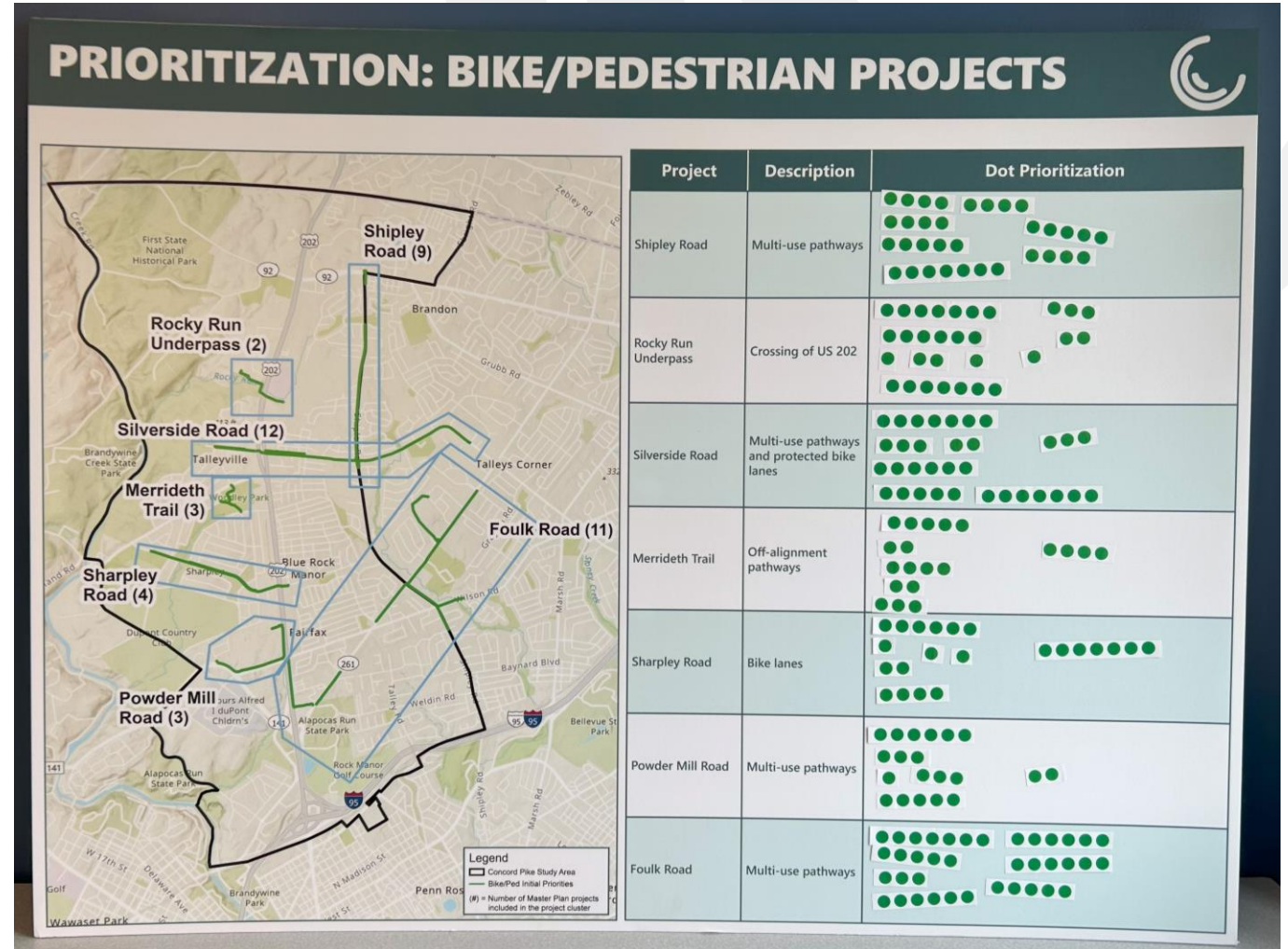
# SPOTLIGHT TOPIC: UNDERPASS NEAR ROCKY RUN



# 2023 PRIORITIZATION EXERCISE BIKE/PEDESTRIAN PROJECTS

## Bike/Pedestrian Priorities:

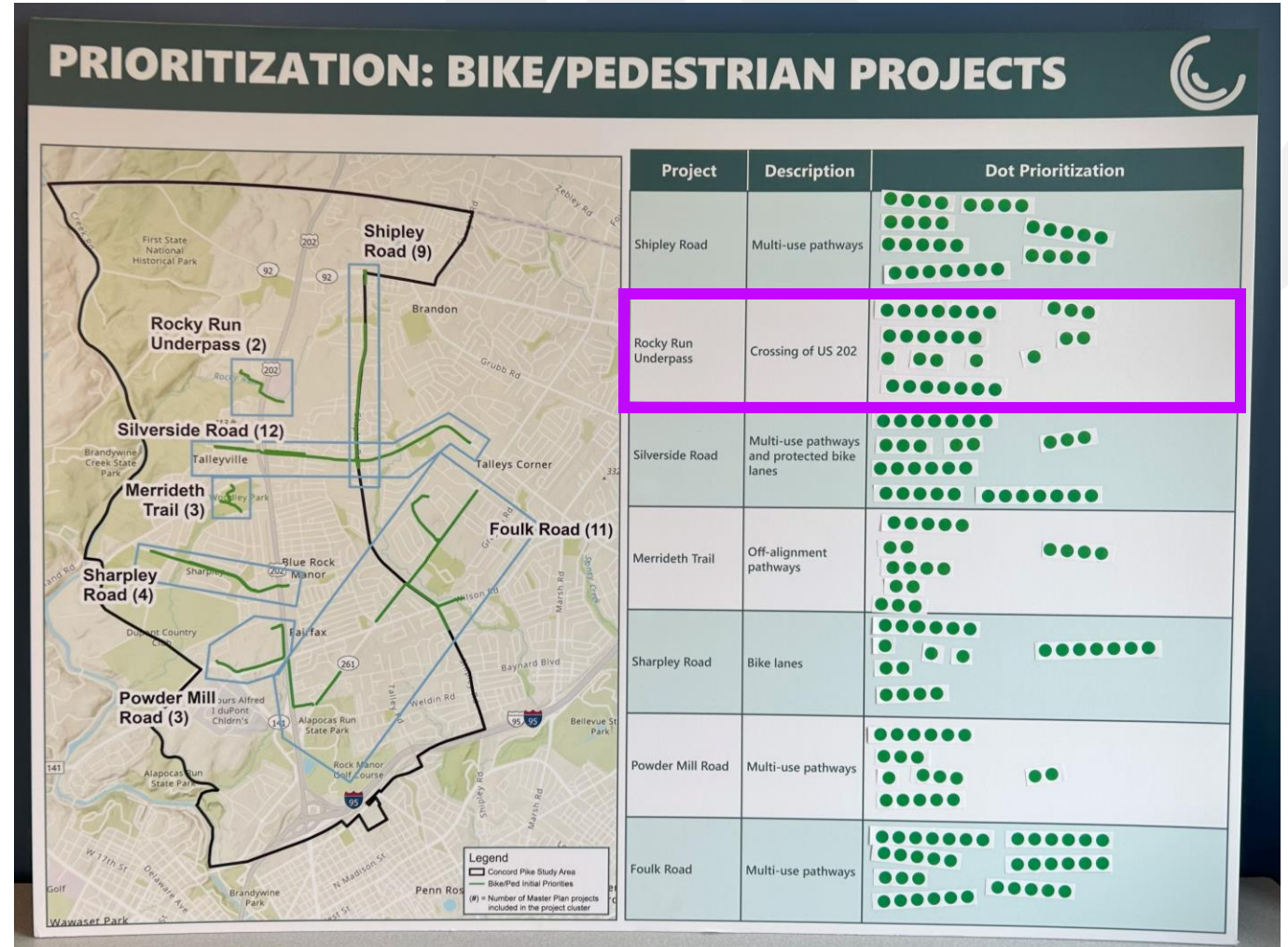
- Foulk Road multi-use pathways
- Silverside Road multi-use pathways and protected bike lanes
- Shipley Road multi-use pathways
- Rocky Run underpass



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# CULVERTS 101

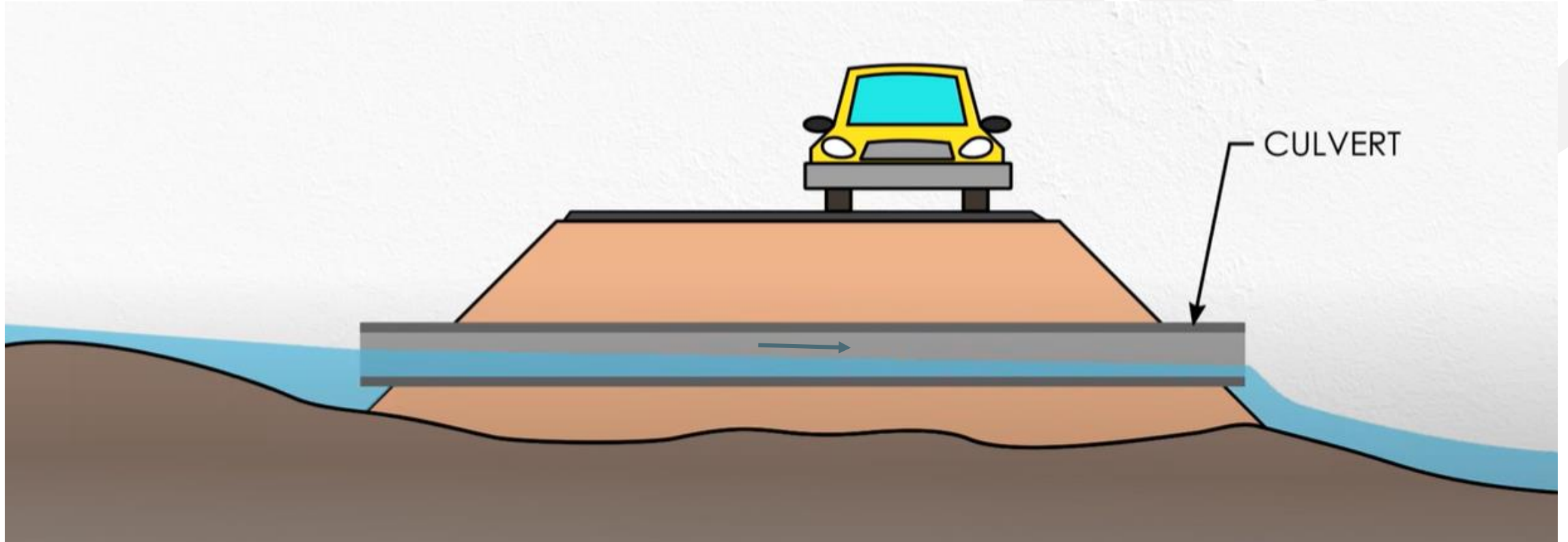
Generally, culverts serve two purposes

- Support loads from above (roadway, traffic)
- Transport the water below



BR 1-024

# HOW DO CULVERTS WORK?



Source: Practical Engineering, What Is a Culvert?

[https://youtu.be/15XJDmawbYU?si=76cWI\\_DWYaKf\\_9Zj](https://youtu.be/15XJDmawbYU?si=76cWI_DWYaKf_9Zj)

# PRELIMINARY HYDRAULICS CHECK – BR 1-024

- DeIDOT's Bridge Section performed a preliminary check to determine whether one cell of the culvert could be repurposed
  - Structure is currently in **Good** condition
  - Initial results indicate one cell of the existing culvert could be closed
- Preliminary check was not a full model of reconfiguring the culvert to accommodate a pedestrian underpass
  - Project would need to be initiated by another DeIDOT Section
  - DeIDOT Bridge Section will continue to provide technical support

# REDIRECTING WATER

- Would need to physically block water from entering area to be used for pedestrians



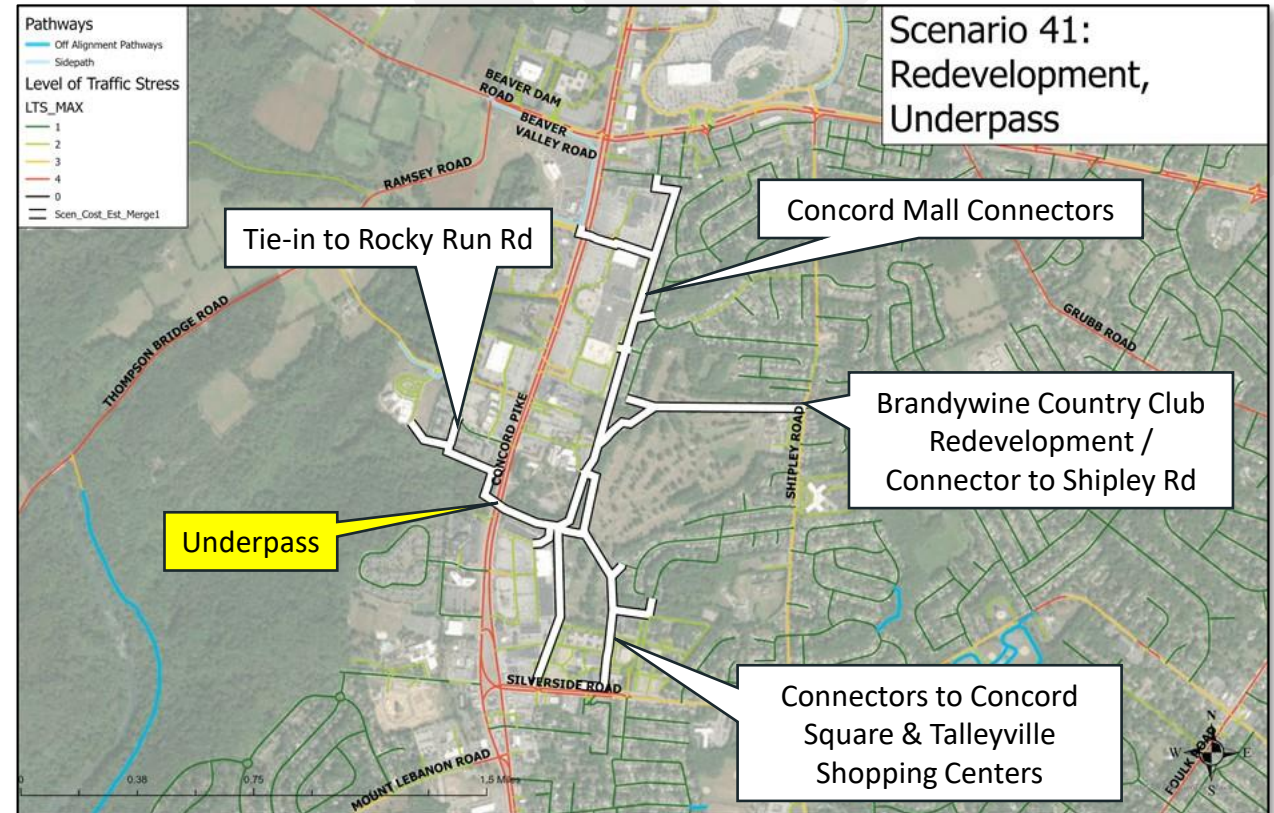
# REDIRECTING WATER

- Includes drainage from the roadway above



# VALUE OF PROPOSED UNDERPASS – CONNECTIVITY

- As a standalone project, underpass ranked #44 (of 55 projects evaluated)
- **Value relies on connectivity to other parts of network**
- When combined with other connectors, overall scenario was #3 high-value scenario



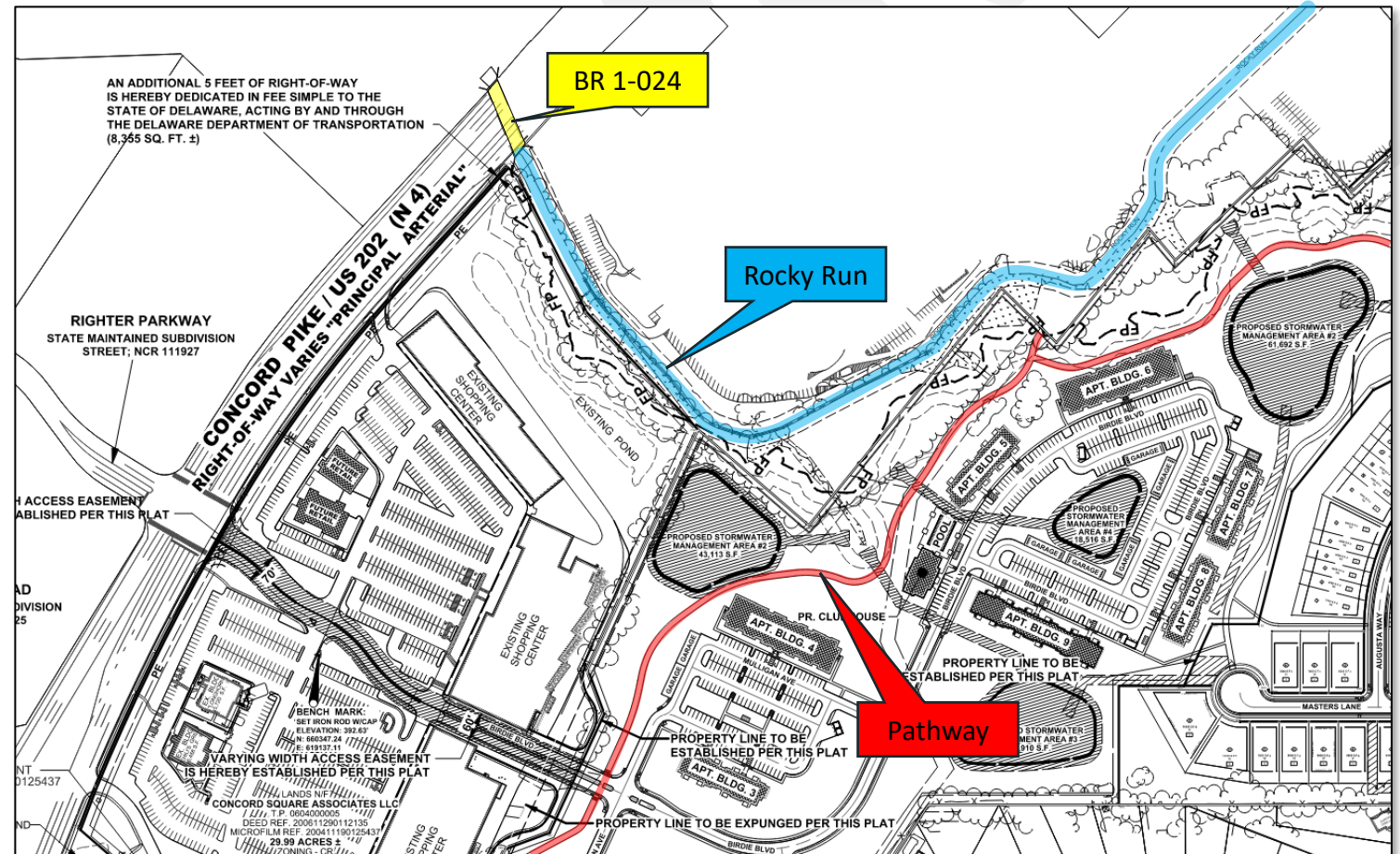
# COORDINATION WITH MULTIPLE PROPERTY OWNERS



- Woodlawn Trustees / First State National Historical Park
- Widener University
- Brandywine Country Club Redevelopment (Capano)
- Concord Square Shopping Center
- Talleyville Shopping Center
- Brandywine Commons / Marriott / Holiday Inn

# BRANDYWINE COUNTY CLUB REDEVELOPMENT

- Latest record plan includes:
  - Sidewalks to Shipley Road
  - Shared use paths that are near but do not connect to culvert area
- Additional connections through other private properties would be needed





# ADA REQUIREMENTS

Both the underpass and connections must be accessible and usable by people with disabilities. Consider:

- Slopes/grades
- Widths
- Transitions
- And more



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Both the underpass and connections must be accessible and usable by people with disabilities. Consider:

- Slopes/grades
- Widths
- Transitions
- And more



**Not Optional:** Required under the ADA Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way (PROWAG)

# ADDITIONAL SAFETY & SECURITY CONSIDERATIONS

- Pedestrian lighting
- Surveillance
- Bigger storm events – what happens downstream with Brandywine River

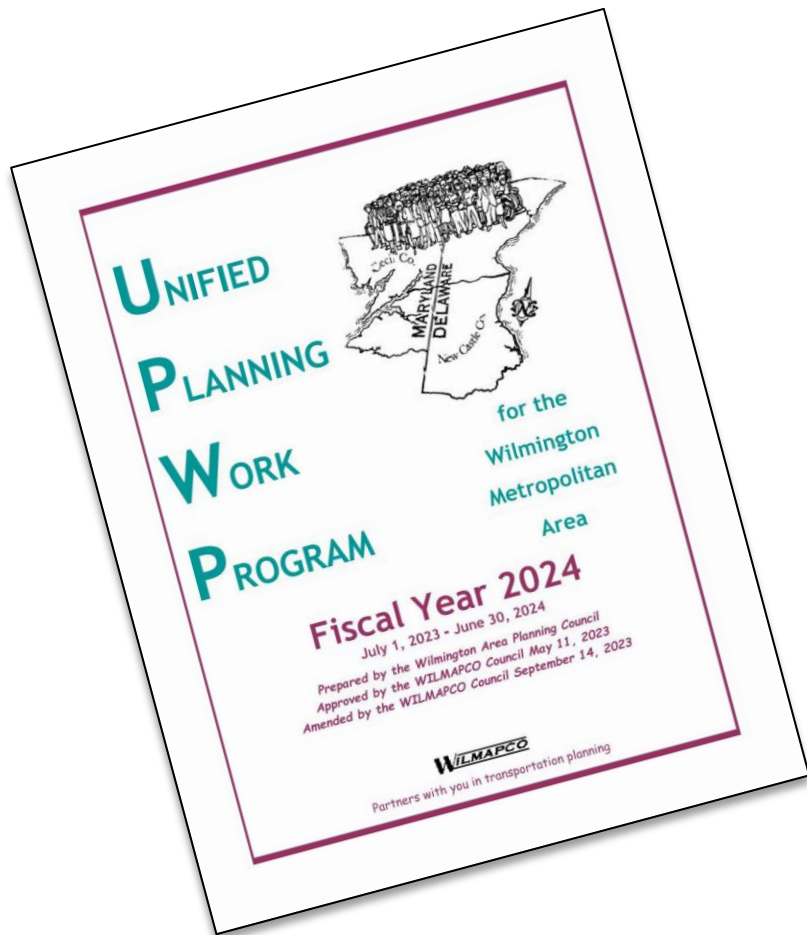


**Inside BR 1-024**

**Example pedestrian lighting in shared-use path underpass in North Carolina**



# UNIFIED PLANNING WORK PROGRAM (UPWP) FEASIBILITY STUDY



- February** • Project ideas for Staff to perform in upcoming UPWP: COMPLETE
- March** • Draft review by TAC and PAC
- April** • Draft UPWP release for 30-Day Public Comment Period
- Final draft approval by TAC and PAC
- May** • Council Approval
- Submission to DeIDOT, MDOT, FHWA, and FTA
- July** • Study Kickoff



**QUESTIONS?**

# AGENCY UPDATES

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



# DeIDOT: Independence Mall

- Design is underway
- Schedule, including construction, TBD



# DeIDOT: Update

- Will be refreshing striping and pavement markings along the Concord Pike corridor from I-95 to the DE/PA State Line
- Work to begin in Spring 2024





## DART:

Delaware Transit Corporation (DTC) hosted three Public Hearing Workshops to gain input and comments on proposed changes to DART Statewide Bus Services to become effective Sunday, May 19, 2024

### New Castle County Service Change highlights for Concord Pike Area

- Schedule adjustments to improve on-time performance, connections, and service reliability to many routes in New Castle County on all service days
- **Route 61** schedule timing adjustments to connect with SEPTA train schedule changes (February 26, 2024)



- HDR and DTC Project Management Team Reviewing and Revising Final Report over next month February – March 2024

# NCC DEPARTMENT OF LAND USE: REDEVELOPMENT ORDINANCE

The Department is working on a new Redevelopment Ordinance that seeks to:

- Establish Multifamily Conversion Development Option – Conversion of office or commercial space to multifamily dwelling units
- Provide Community Development Area Incentives - Areas identified as Community Development Areas in the Comprehensive Plan (Route 9 and Claymont)
- Provide incentives for development along Type 1 Commercial Corridors - Concord Pike, Kirkwood Hwy, Philadelphia Pike, etc...
- Modernize the redevelopment provisions of the UDC opening them up for more projects

# OPEN DISCUSSION



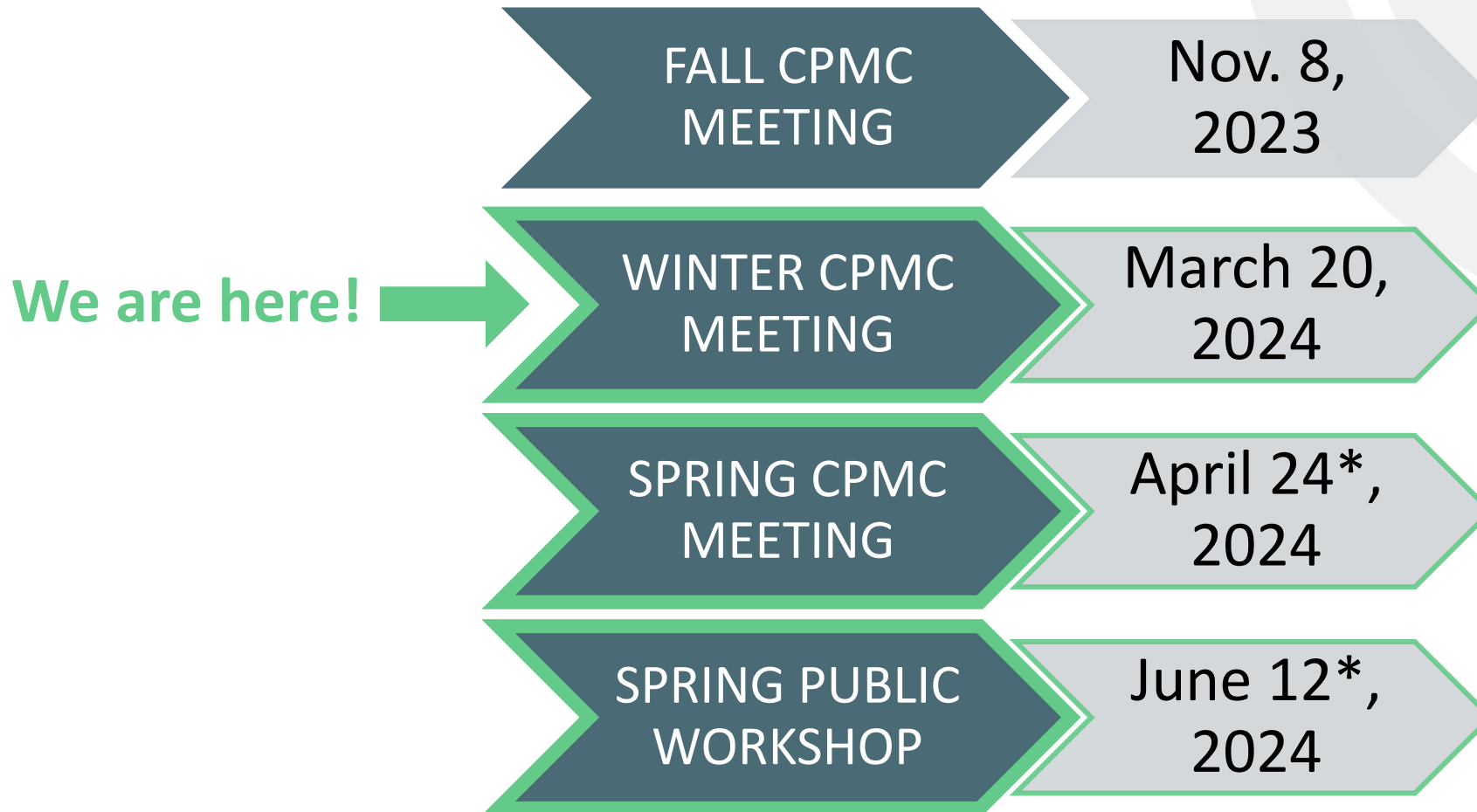
# NEXT STEPS



# POTENTIAL SPOTLIGHT TOPICS

- Revisit material from the Bike Delaware Summit regarding the Silverside Rd/Garden of Eden Rd reconfiguration
- Next steps for ped/bike recommendations in the Concord Pike Master Plan
- What a multi-way along US 202 might look like

# CPMC MEETING SCHEDULE



\*Dates to be confirmed



**QUESTIONS?**



Public  
Comments

**THANK YOU!**



[WILMAPCO.ORG/202-2](http://WILMAPCO.ORG/202-2)