# Zoom housekeeping items

- The meeting is being recorded. The meeting will be posted on www.facebook.com/coopersferrypartnership.
- All participants will be muted until the end of the presentation.
- Please feel free to submit a question in the chat feature; participants will be unmuted at the end and can feel free to ask questions.











## **Project Team Leaders**



Kevin Becica, P.E. - County Engineer

(856) 566-2971

Kevin.Becica@CamdenCounty.com



Kathy Cullen - Project Manager

(856) 757-9154

KCullen@CoopersFerry.com



Jennifer Steen, P.E. - Deputy Project Manager

(609) 512-3628

Jennifer.Steen@wsp.com



### Agenda

- Project Location
- Project Purpose and Goals
- Design Process
- Existing Conditions
- □ Key Issues
- Survey Results
- Alternatives
- Schedule
- Community Survey



## Project Location





## **Purpose and Goals**

The purpose of the project is to promote walkability, enhance safety and functionality for all users and further revitalize the neighborhood by:

- Alleviating traffic congestion and improving connectivity between Baird Boulevard and Haddon Ave
- 2. Improving safety and security for all modes of transportation
- 3. Bringing the sidewalk and roadway pavement to a better state of repair
- 4. Improve traffic operations along in the study area
- 5. Developing a preferred alternative that is community driven and stakeholder supported





### Conceptual Design



Multiple Alternatives developed and reviewed

6 months - 1 year

**Current Phase** 





# Preliminary and Final Design





#### Construction











Detailed Design of chosen design

1-3 years

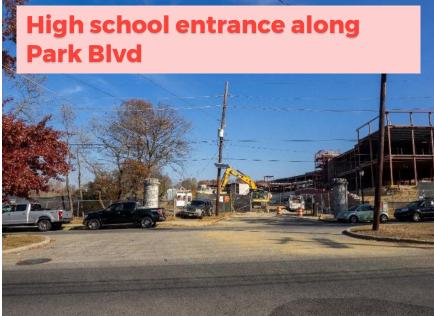
Construction of the chosen design

1-2 years

### **Baird Blvd**

# Park Blvd / Magnolia





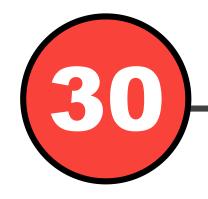






#### **Crash Hotspots**

# **Baird Blvd** @ Park Blvd





23% Rear-End



17% Sideswipe



10% Pedestrian



73% Daylight Hours



23% Wet Surface

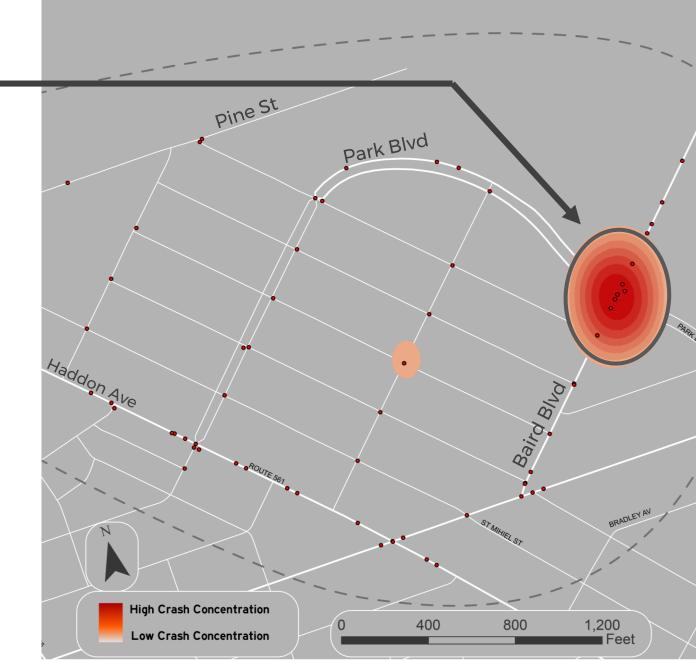


10% Moderate Injury



NOTE: Crash breakdown is provided by daily time period. Figures in **BOLD** are higher than Statewide Averages

Source: New Jersey Department of Transportation, 2015-2017



#### **Crashes**

# **Other** intersections







### **Stakeholder Meeting 2 and Survey Results**

Conducted the second stakeholder meeting on November 16th

### **Survey Results**

- 34 survey responses
  - Streetscape is important for the community (i.e. trash receptacles, decorative lighting, benches, trees and bicycles racks in the project area)
  - Parking is very important for the community along Baird Boulevard
  - Traffic calming measures and pedestrian safety are key issues
  - Alternative One was presented but not voted on since it is a nonviable option



34′

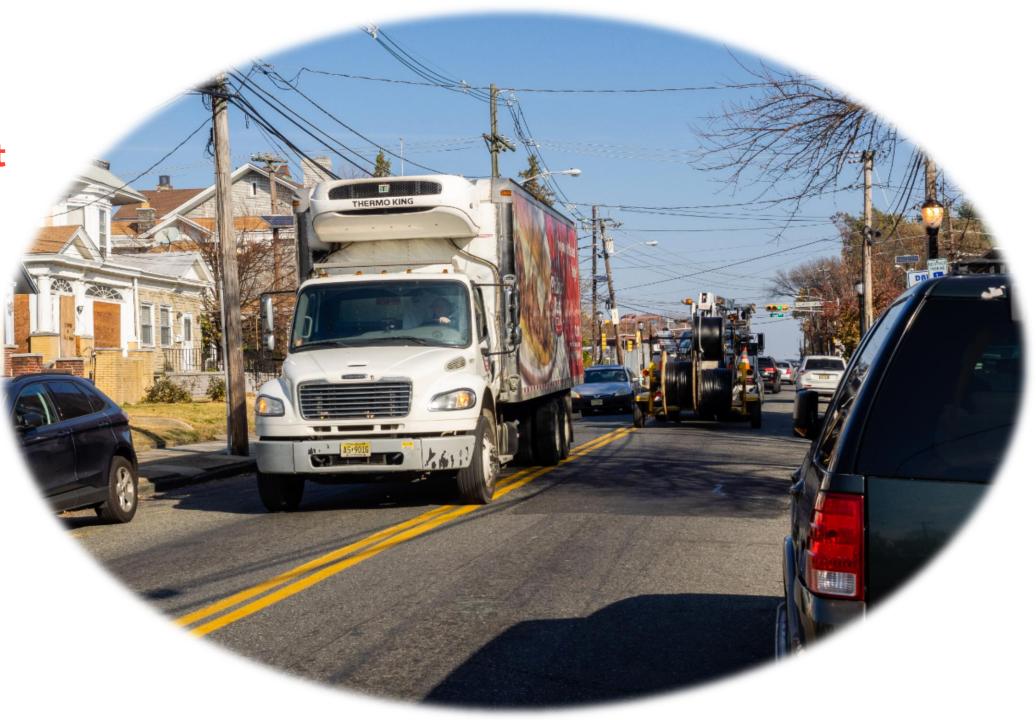
	Alternative 2a	Alternative 2b	Alternative 2c
	Baird Existing Cross-section	Baird Westbound Parking	Baird Eastbound Parking
Description	<ul> <li>Two 16' wide travel lanes</li> <li>6' parking only on both sides</li> </ul>	<ul> <li>Two 12' wide travel lanes</li> <li>10' parking only on westbound side of Baird Boulevard</li> </ul>	<ul> <li>Two 12' wide travel lanes</li> <li>10' parking only on eastbound side of Baird Boulevard</li> </ul>
Preference	67.6%	17.6%	14.7%
Comments	<ul> <li>Availability of higher parking spaces</li> <li>Keep available parking spaces or maintain available parking spaces</li> </ul>	<ul> <li>Maintaining parking along one side of the road is important</li> <li>There needs to be alternate off-street parking provided during snowy weather for when street parking on Baird Blvd is not allowed.</li> </ul>	<ul> <li>Maintaining parking along one side of the road is important</li> <li>There needs to be alternate off-street parking provided during snowy weather for when street parking on Baird Blvd is not allowed.</li> </ul>
Cross Section			

34'

34'

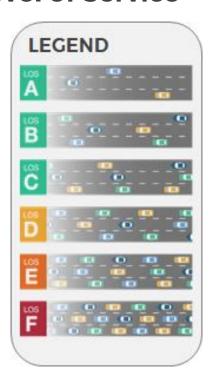
Corted by i reference				
	Alternative 3b	Alternative 3a	Alternative 3c	
	Realign Magnolia Ave with Pine Street (One Way)	Realign Magnolia Ave with Pine Street (Two Way)	Maintain Magnolia Ave	
Description	Realign Magnolia Avenue perpendicular to Pine Street; Make Pine Street one way between Park Blvd. and Magnolia Ave • Signal Improvements at Park and Baird Blvd. intersection	Realign Magnolia Avenue perpendicular to Pine Street; Pine Street remains two way  • Signal Improvements at Park and Baird Blvd. intersection	<ul> <li>Maintain Magnolia Ave. existing condition</li> <li>Signal Improvements at Park and Baird Blvd. intersection</li> </ul>	
Preference	73.5%	14.7%	11.8%	
Comments	<ul> <li>Pine Street needs to be made one way for the safety of walkers and school children</li> <li>High traffic area that is very accident prone. It would be good if it could be kid friendly since there are a lot of kids in the area</li> </ul>	Traffic calming is necessary		
		New Circulation Pattern  New Circulation Pattern  Park  Park		

Roadway Improvement Alternatives



## No Build Pine Street Extension

#### **Level of Service**







### **Alternative 1**

**Pine Street Extension** 



Pedestrian Improvements



Bicycle Improvements



Streetscaping



New Roadway for all users



Traffic Signal Upgrade



Shorter Queues/ Delays

#### **Constraints**

- Green Acres
- Grade change
- Environmental



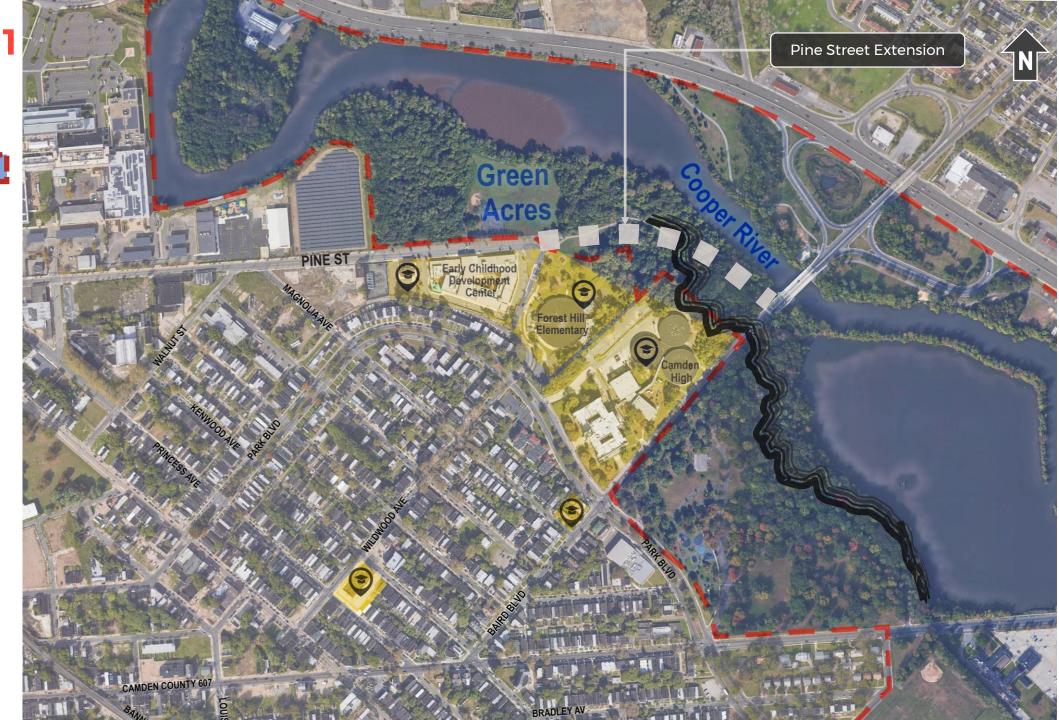
### **Alternative 1**

**Pine Street Extension** 

# **Environmental Constraints**

- Green Acres
- Cooper River







# **Existing Conditions\***

Baird Blvd Park Blvd to Kaighn Ave

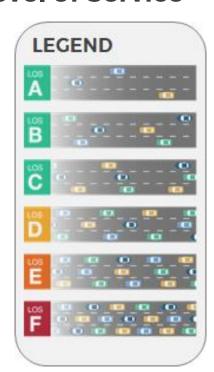




### **No Build**

Baird Blvd Park Blvd to Kaighn Ave

#### **Level of Service**







### **Alternative 2a**

(Existing Cross-section)
Baird Blvd: Park Blvd to Kaighn Ave



Pedestrian Improvements



Streetscaping



New Pavement/ Stripping



Traffic Signal Upgrade



Shorter Queues/ Delays



Parking on both sides

#### **Design Exception**

- Pavement width 34' Min. Reg. 38'
  - Parking (8' each = 16')
  - Travel Lanes (11' each = 22')
  - Total Req. = 38'





# Alternative 2a (Existing Cross-section) Baird Blvd: Park Blvd to Kaighn Ave



Pedestrian Improvements



Streetscaping



New Pavement/ Stripping



Traffic Signal Upgrade



Shorter Queues/ Delays



Consolidated Parking

#### **Design Exception**

- Pavement width 34' Min. Reg. 38'
  - Parking (8' each = 16')
  - Travel Lanes (11' each = 22')
  - Total Reg. = 38'



\* Future Conditions year 2045



### **Alternative 2b**

Baird Blvd: Park Blvd to Kaighn Ave



Pedestrian Improvements



Streetscaping



Wider Travel Lanes
New Pavement/ Stripping



Traffic Signal Upgrade



Shorter Queues/ Delays



Consolidated Parking



Full Depth Pavement Reconstruction





### **Alternative 2b**

Baird Blvd: Park Blvd to Kaighn Ave



Pedestrian Improvements



Streetscaping



Wider Travel Lanes
New Pavement/ Stripping



Traffic Signal Upgrade



Shorter Queues/ Delays



Consolidated Parking



Full Depth Pavement Reconstruction





#### **Alternative 2c**

Baird Blvd: Park Blvd to Kaighn Ave



Pedestrian Improvements



Streetscaping



Wider Travel Lanes

New Pavement/ Stripping



Traffic Signal Upgrade



Shorter Queues/ Delays



Consolidated Parking



Full Depth Pavement Reconstruction



\* Future Conditions year 2045



### **Alternative 2c**

Baird Blvd: Park Blvd to Kaighn Ave



Pedestrian Improvements



Streetscaping



Wider Travel Lanes

New Pavement/ Stripping



Traffic Signal Upgrade



Shorter Queues/ Delays



Consolidated Parking



Full Depth Pavement Reconstruction





### **Alternative 2d**

Baird Blvd: Park Blvd to Kaighn Ave



Pedestrian Improvements



Bicycle Improvements



Streetscaping



Wider Travel Lanes

New Pavement/ Stripping



Traffic Signal Upgrade



Shorter Queues/ Delays



Parking on both sides



Full Depth Pavement Reconstruction



\* Future Conditions year 2045



#### **Alternative 2d**

Baird Blvd: Park Blvd to Kaighn Ave



Pedestrian Improvements



Bicycle Improvements



Streetscaping



Wider Travel Lanes

New Pavement/ Stripping



Traffic Signal Upgrade



Shorter Queues/ Delays



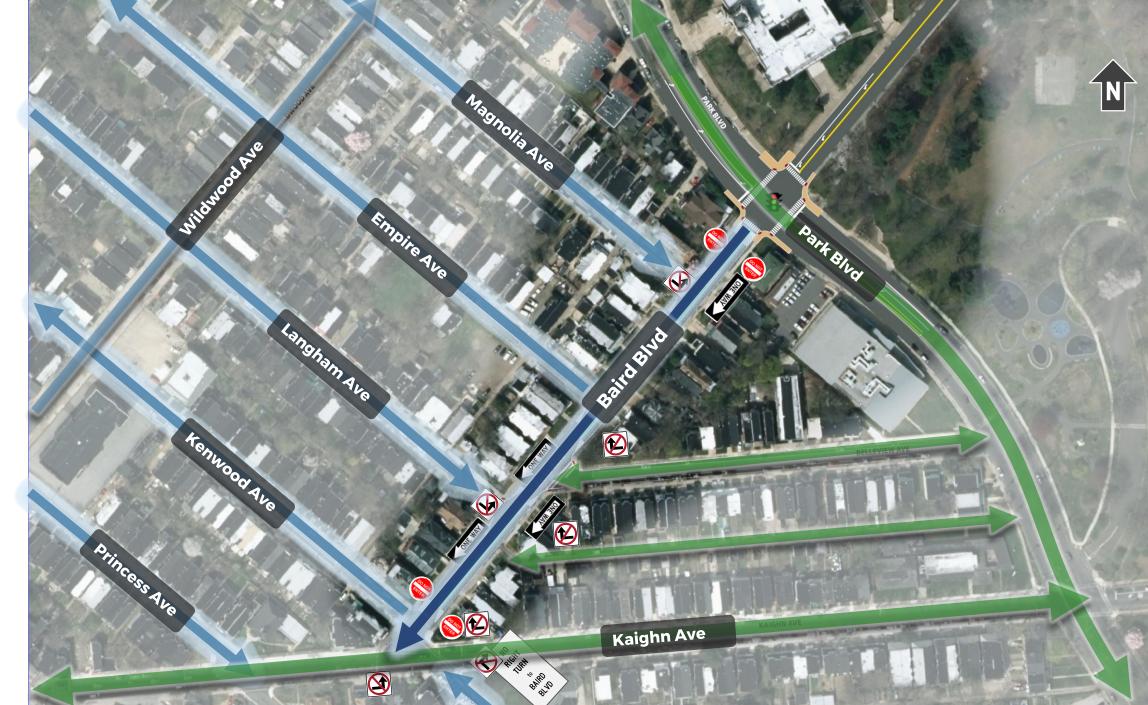
Parking on both sides



Full Depth Pavement Reconstruction









# **Existing Conditions**

Magnolia Ave



## Alternative 3a Magnolia Ave



Pedestrian Improvements



Streetscaping



Improved turn radii
New Pavement/ Stripping



Traffic Signal Upgrade



Shorter Queues/ Delays

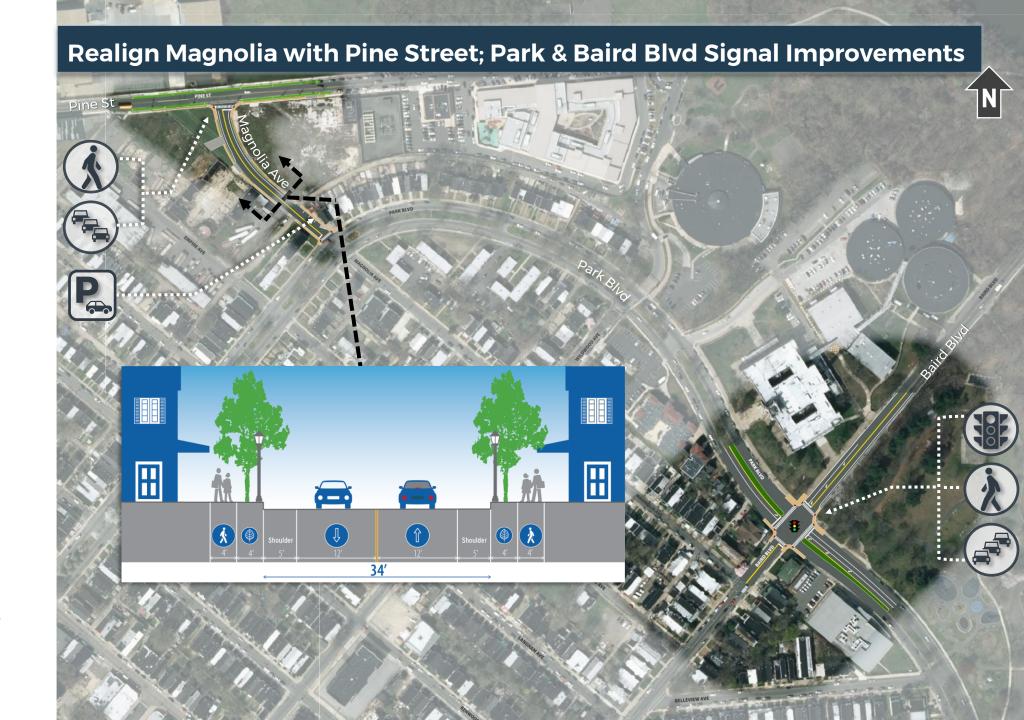


Parking maintained

#### **Notes**

Realignment: Change in roadway curvature geometry





## Alternative 3a Magnolia Ave



Pedestrian Improvements



Streetscaping



Improved turn radii

New Pavement/ Stripping



Traffic Signal Upgrade



Shorter Queues/ Delays

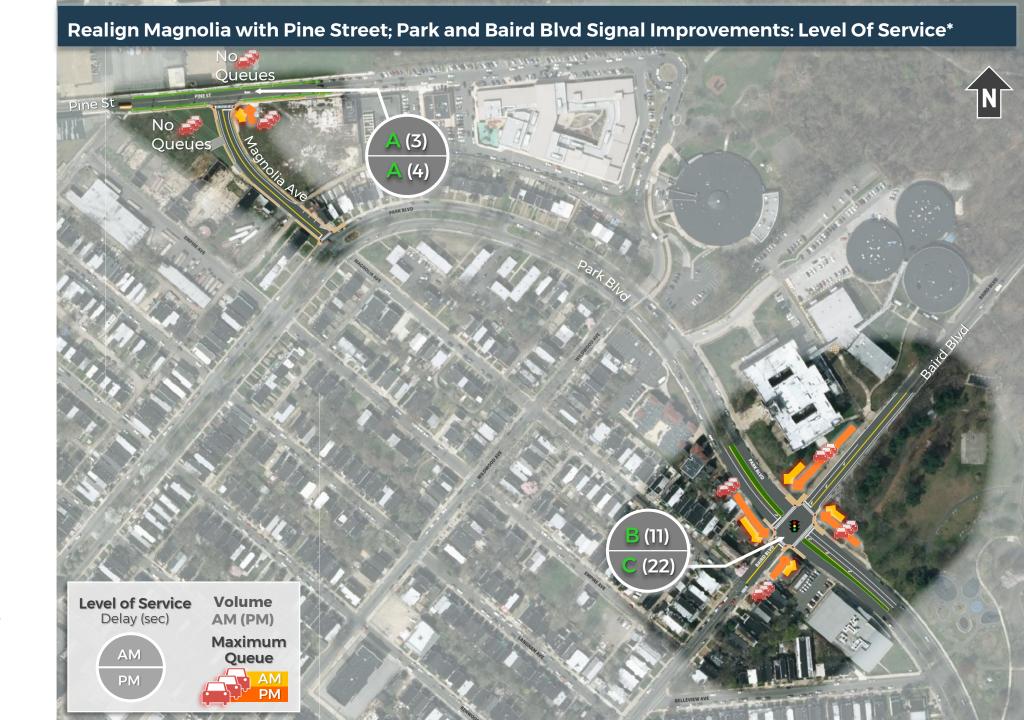


Parking maintained

#### **Notes**

Realignment: Change in roadway curvature geometry





## Alternative 3b Magnolia Ave



Pedestrian Improvements



Bicycle Improvements



Streetscaping



Improved turn radii
New Circulation Pattern
New Pavement/ Stripping



Shorter Queues/ Delays



Additional & Existing Parking

#### **Notes**

Improves safety for schools and park





## Alternative 3b Magnolia Ave



Pedestrian Improvements



Bicycle Improvements



Streetscaping



Improved turn radii
New Circulation Pattern
New Pavement/ Stripping



Shorter Queues/ Delays



Additional & Existing Parking

#### **Notes**

Improves safety for schools and park





## Alternative 3c Magnolia Ave



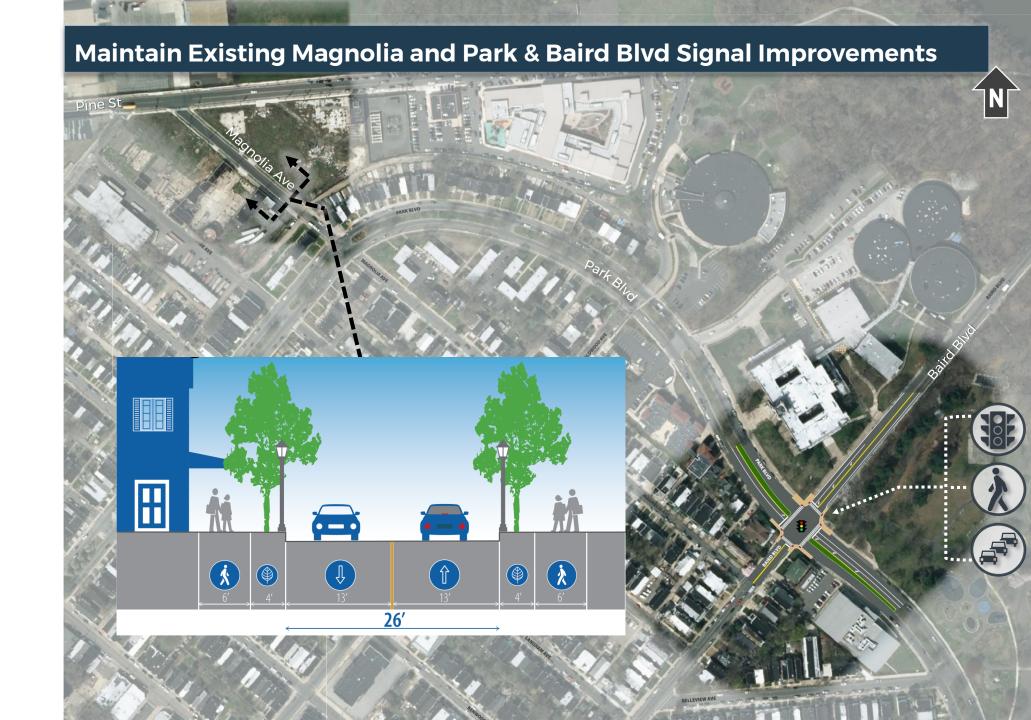
Pedestrian Improvements



Streetscaping



Traffic Signal Upgrade





## Alternative 3c Magnolia Ave



Pedestrian Improvements

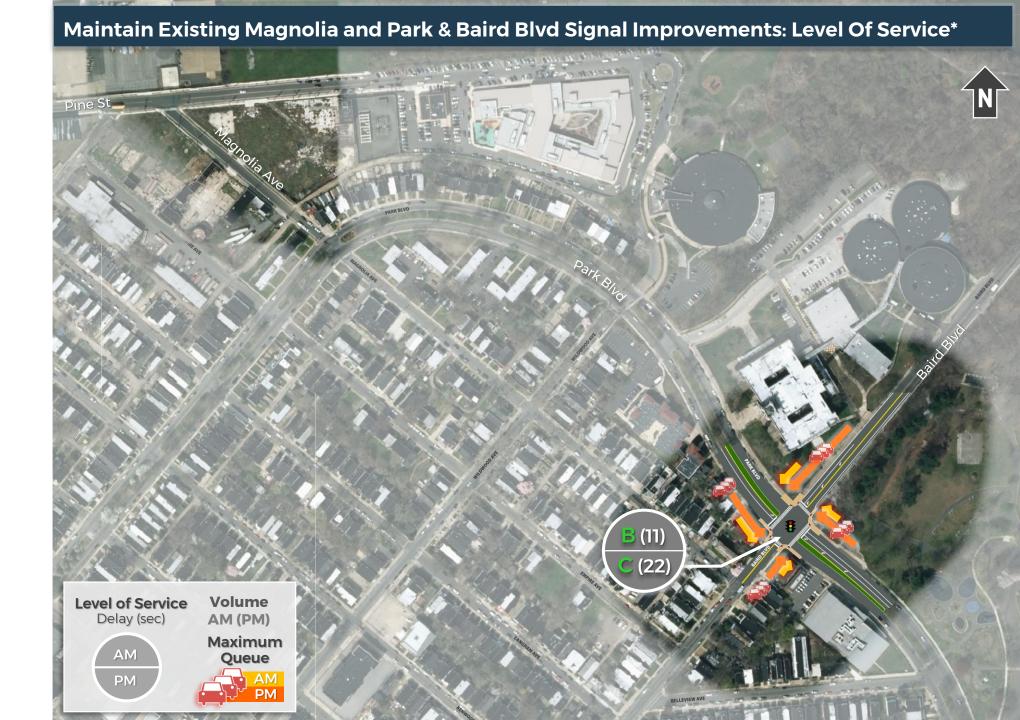


Streetscaping



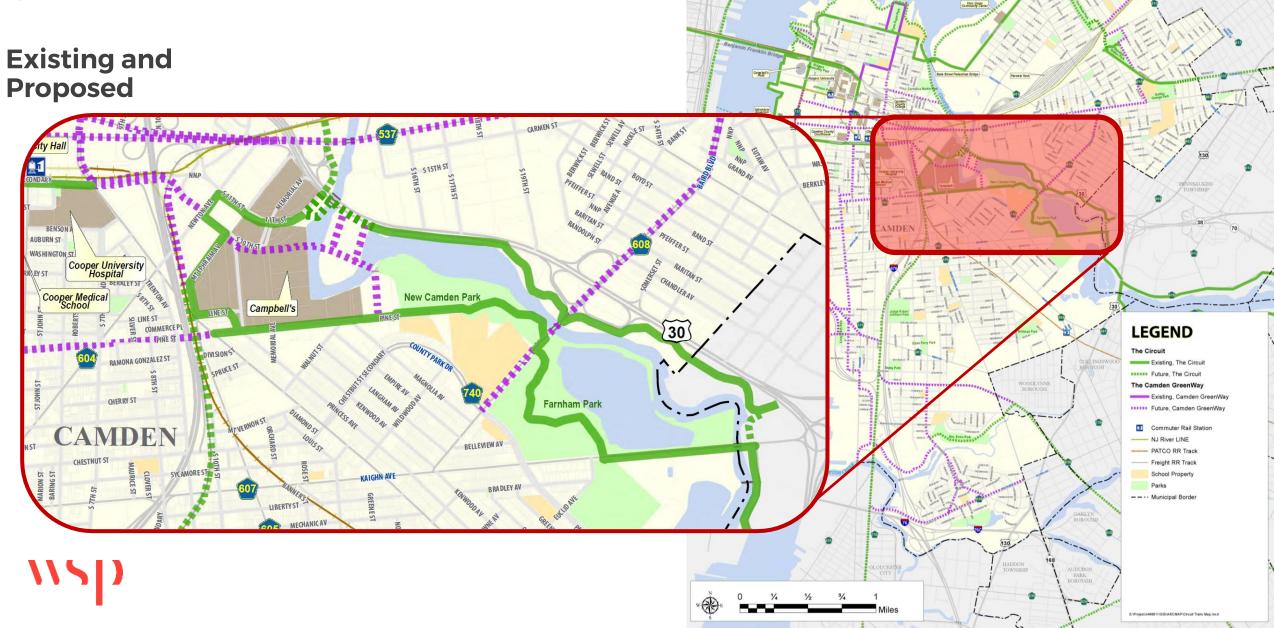
Traffic Signal Upgrade





### **Bicycle Connections**

## **Proposed**



Petty Island

BACK CHANNEL

## Bicycle Difficulty Level (Level of Traffic Stress)



Beginner (Riders of **All Ages and Ability**)



Basic (Adult Riders)



**5**24

Advanced (Most **Experienced** Riders)

#### **LEGEND**

The Circuit

Existing, The Circuit

Future, The Circuit

The Camden GreenWay

Existing, Camden GreenWay

Future, Camden GreenWay



- NJ River LINE

PATCO RR Track

- Freight RR Track

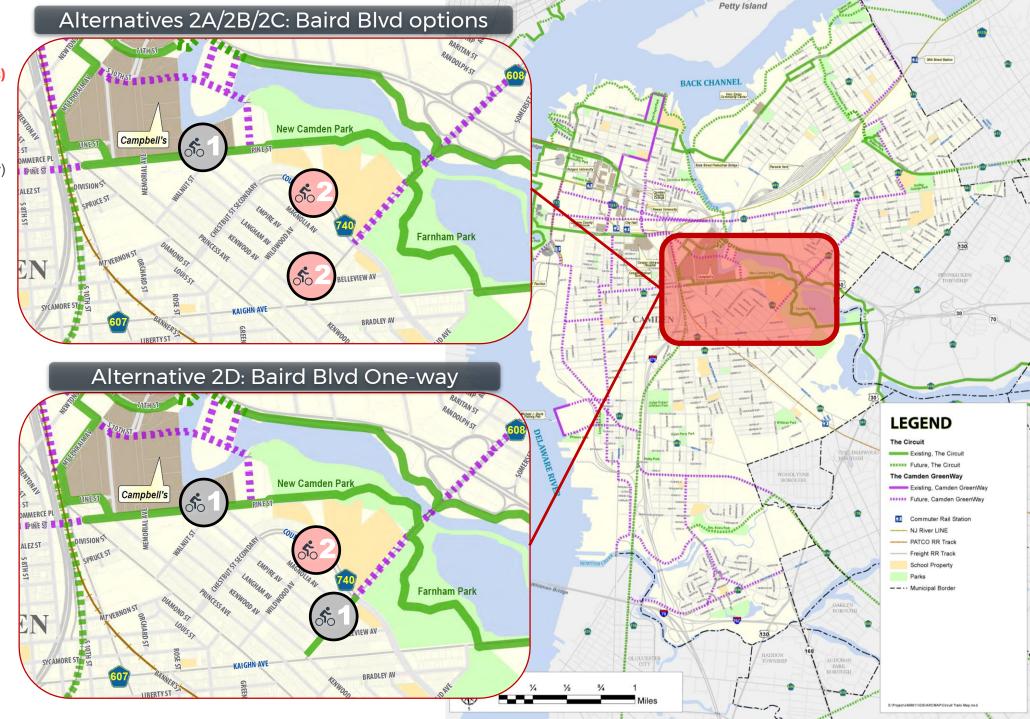
--- Freight RR Trac

School Property
Parks

Faiks

-- · · Municipal Border





#### **Bicycle Difficulty Level** (Level of Traffic Stress)



Beginner (Riders of All Ages and Ability)



Basic (Adult Riders)



Intermediate (Enthusiast Riders)



Advanced (Most Experienced Riders)

#### **LEGEND**

The Circuit

Existing, The Circuit

Future, The Circuit

The Camden GreenWay

Existing, Camden GreenWay

Future, Camden GreenWay



NJ River LINE

PATCO RR Track

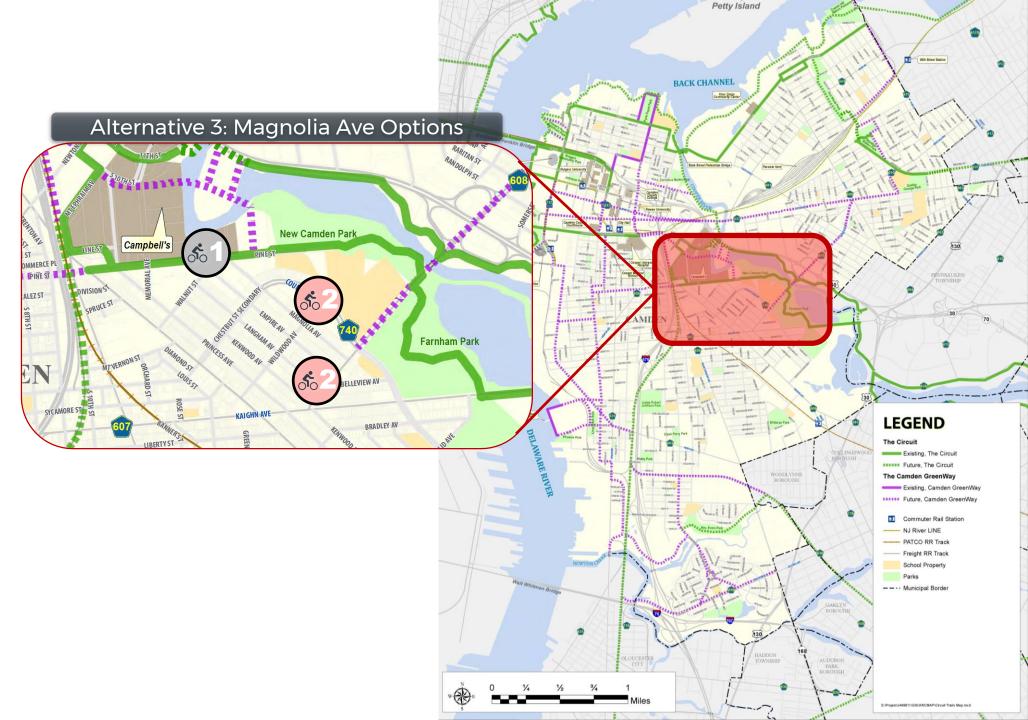
Freight RR Track

School Property

Parks

-- · · Municipal Border





#### Pine Street - Baird Boulevard Access Alternatives Overview

#### 2a. Baird Blvd Maintain Current Parking on Baird Blvd.\*

- Two 11' wide travel lanes
- 6' parking lanes on both sides of Baird Blvd\*
- Optimize signal timings along Baird Blvd. and Kaighn Ave
- Signal upgrades at Baird Blvd and Park Blvd Intersection

#### 2b. Baird Blvd WB parking

- Two 12' wide travel lanes
- 10' parking only on westbound side of Baird Blvd.
- Optimize signal timings along Baird Blvd. and Kaighn Ave.
- Signal upgrades at Baird Blvd and Park Blvd Intersection

#### **2c. Baird Blvd EB parking**

- Two 12' wide travel lanes
- 10' parking only on eastbound side of Baird Blvd
- Optimize signal timings along Baird Blvd. and Kaighn Ave.
- Signal upgrades at Baird Blvd and Park Blvd Intersection

### 2d. Baird Blvd One Way - Parking on Both Sides

- One 12' one way travel lane between Park Blvd and Kaighn Ave
- 8' parking on both sides of Baird Blvd
- 5' Bicycle Lane on the east side of Baird Blvd
- Optimize signal timings along Baird Blvd. and Kaighn Ave.
- Signal upgrades at Baird Blvd and Park Blvd Intersection.



#### Pine Street - Baird Boulevard Access Alternatives Overview

#### **3a. Magnolia Realignment**

- Realign Magnolia Ave perpendicular to Pine Street
- · Pine Street to remain two way
- Signal upgrades at Baird Blvd and Park Blvd Intersection

### **3b. Realign Magnolia; Make Pine Street One-Way**

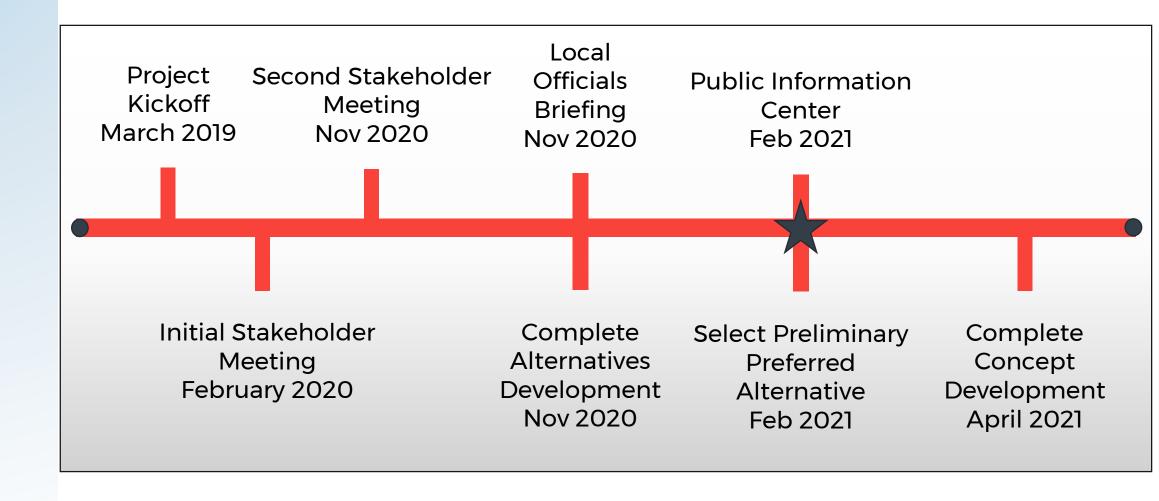
- Realign Magnolia Ave perpendicular to Pine Street
- Pine Street One Way westbound between Magnolia Ave and Park
- Signal upgrades at Baird Blvd and Park Blvd Intersection

### **3c. Existing Magnolia with Signal Upgrades**

- Keep Magnolia Ave with existing conditions
- Signal upgrades at Baird Blvd and Park Blvd Intersection



### **Project Schedule**





## **Community Survey**

Please complete the survey and return. Your input is valued!

- □ Survey link (English):

  <a href="https://docs.google.com/forms/d/e/1FAIpQLSdD1PARq16u">https://docs.google.com/forms/d/e/1FAIpQLSdD1PARq16u</a>

  OmbcrnevIW6cXIcOxWqAt5IdZ0kY3gLofA8m4Q/viewform?usp=sf\_link
- □ Survey link (Español):

  <a href="https://docs.google.com/forms/d/e/1FAIpQLSfLsFw4N6QP">https://docs.google.com/forms/d/e/1FAIpQLSfLsFw4N6QP</a>

  <a href="mailto:lbuFZW--JDIPbeSlhAo3bjC3W7sb7l-7">lbuFZW--JDIPbeSlhAo3bjC3W7sb7l-7</a>

  <a href="mailto:rg/ywe3Q/viewform?usp=sf">7ywe3Q/viewform?usp=sf link</a>
- ☐ Hard Copy Request Call Kathy Cullen (856) 912-1018
- ☐ Email: <u>Jennifer.Steen@WSP.com</u> <u>kcullen@coopersferry.com</u>





Making It Better, Together.





