

MEETING WILL BEGIN SOON!

S. Easton Rd & New Britain Rd Roundabout
Intersection Improvement Project
Public Meeting

MARCH 2021

WELCOME

S. Easton Rd & New Britain Rd Roundabout
Intersection Improvement Project
Public Meeting

MARCH 2021

WELCOME & PURPOSE

Logistics & Introductions

Timeline & Project Overview

Environmental Features

Preliminary Design & Operations

About Roundabouts

Safety Considerations

Construction

Next Steps



MEETING LOGISTICS

Microsoft Teams Overview

- Please mute yourself
- Submit Questions through Q&A
- Please be courteous
- Presentation is being recorded



NEARBY EXAMPLE – WEST MAPLE AVE ROUNDABOUT



INTRODUCTIONS

PennDOT Engineering District 6-0



- George Gumas – Consultant Project Manager
- Vince Cerbone – Traffic Safety Manager
- Sharang Malaviya – Traffic Safety Supervisor
- Larry Kubli – Bucks County Traffic Control Specialist
- Fran Hanney – Senior Manager Transportation Services and District Roundabout Coordinator



INTRODUCTIONS

Consultant Team

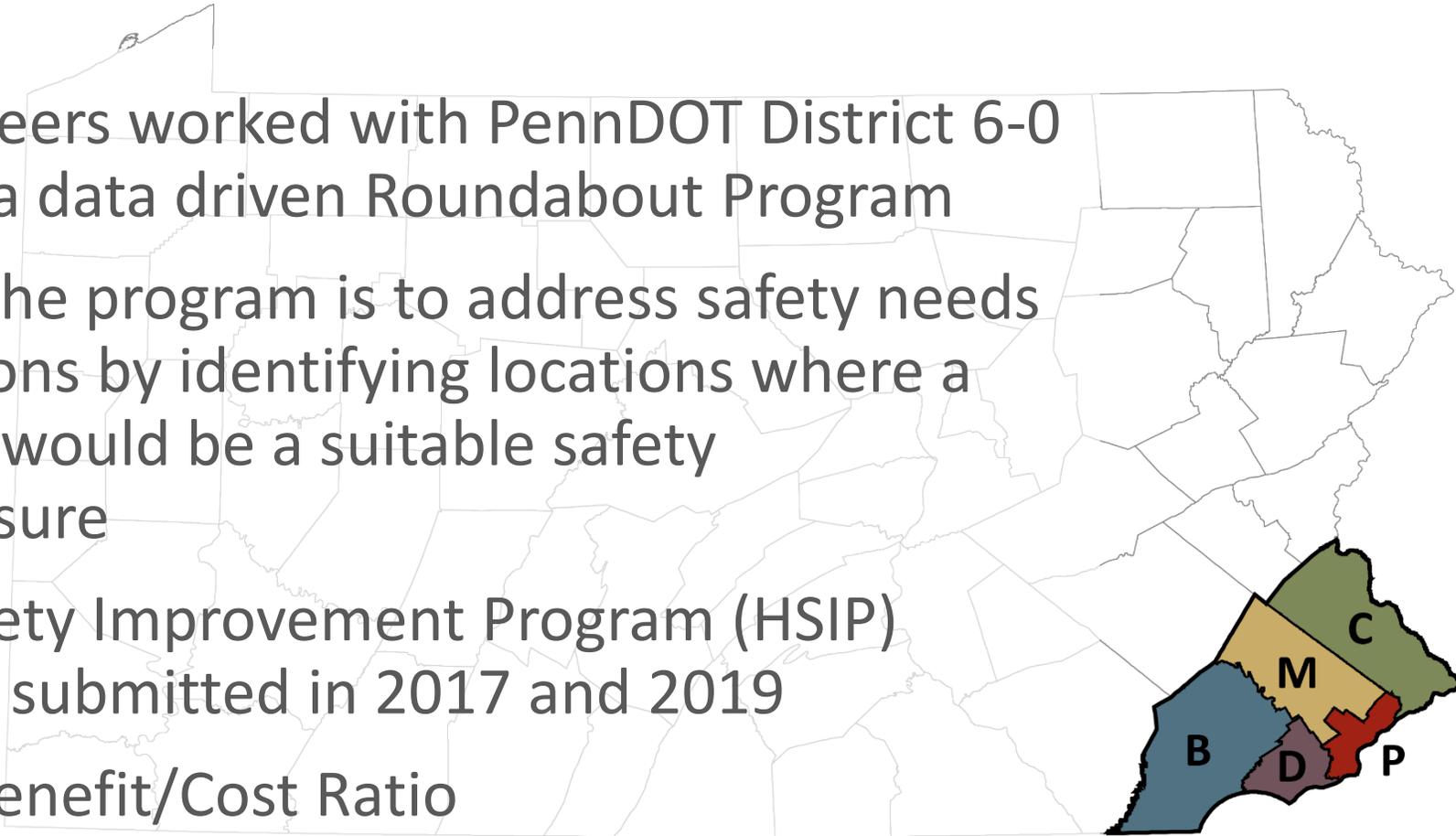


- Michael P. Mastaglio, P.E., PTOE, Project Manager
- Andrew Gould, P.E.
- Andrew Thompson E.I.T.
- Kate Norris
- Bob O'Neill (Lotus Environmental Consulting, LLC)



DISTRICT-WIDE ROUNDABOUT PROGRAM

- Urban Engineers worked with PennDOT District 6-0 to establish a data driven Roundabout Program
- The goal of the program is to address safety needs at intersections by identifying locations where a roundabout would be a suitable safety countermeasure
- Highway Safety Improvement Program (HSIP) Applications submitted in 2017 and 2019
- Prioritized Benefit/Cost Ratio



DISTRICT 6-0



PROJECT OVERVIEW

Project Related Activities/Schedule

District-wide Roundabout Program

Completed 2017

Doylestown Township presentation

March 20, 2018

Doylestown Township presentation

October 1, 2019

Preliminary Engineering

Spring/Summer 2020

Construction

Start – Summer 2022

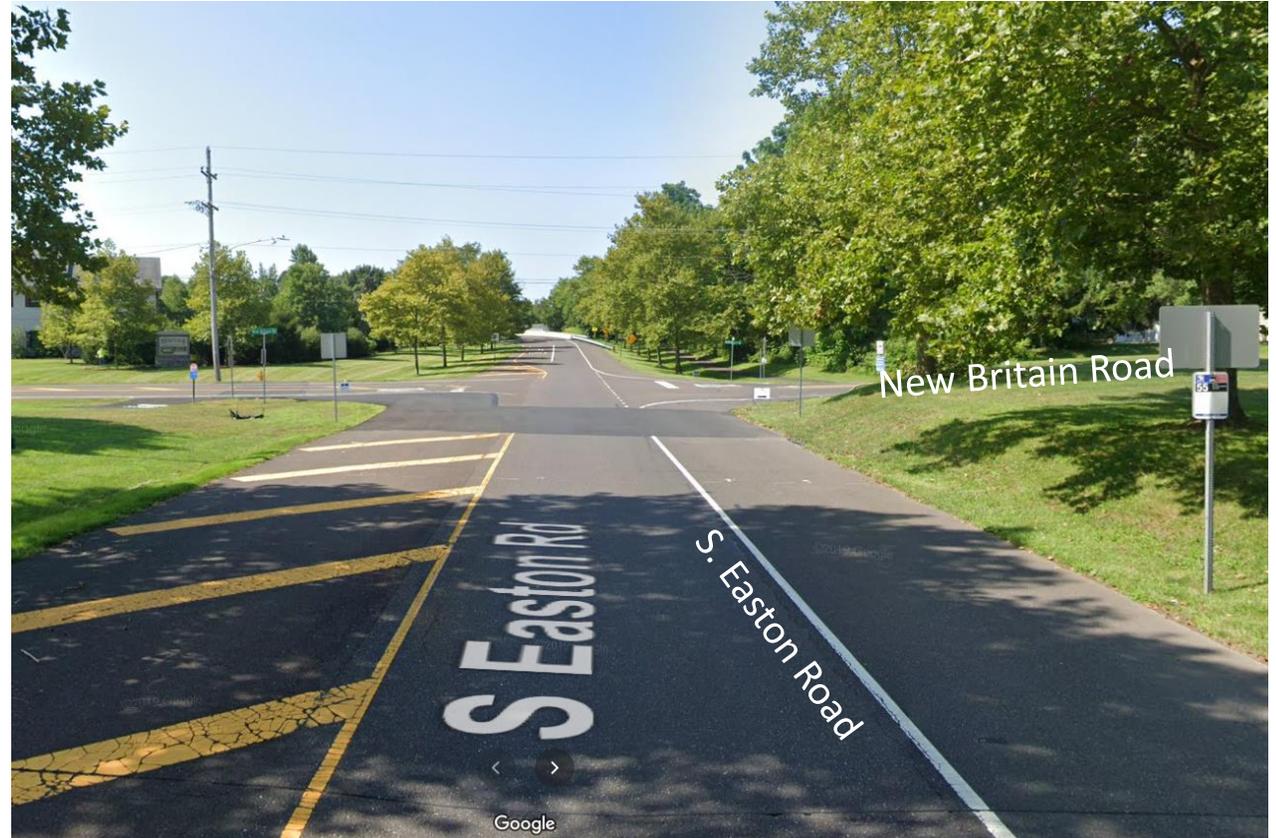
Open To Public – Winter 2023



PROJECT OVERVIEW



Looking north on S. Easton Road (Northbound) towards the intersection with New Britain Road



Looking south on S. Easton Road (Southbound) towards the intersection with New Britain Road



PROJECT OVERVIEW



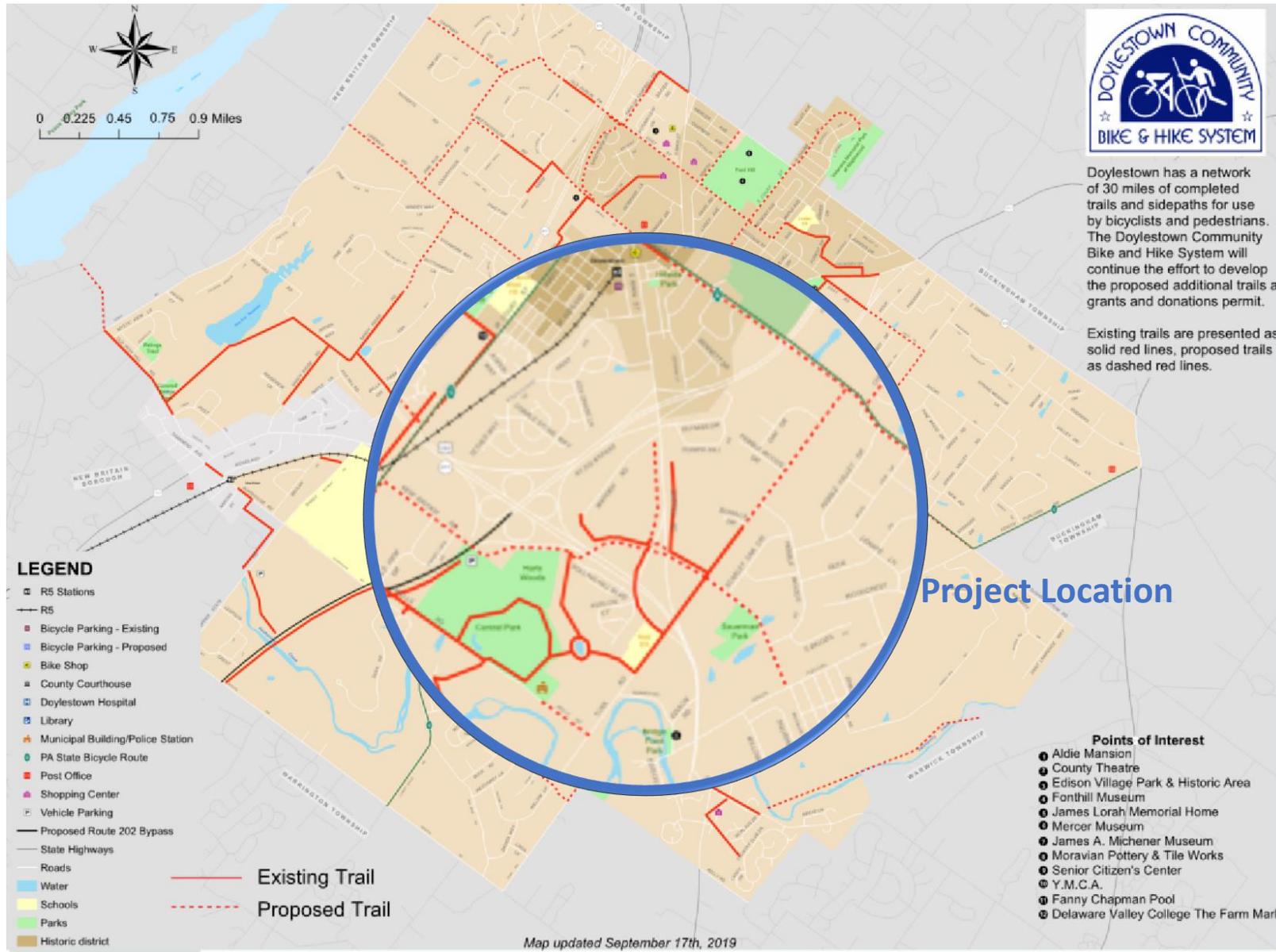
Looking southeast along the Doylestown Bike/Hike Trail



Looking north on S. Easton Road (Northbound) towards existing bus stop

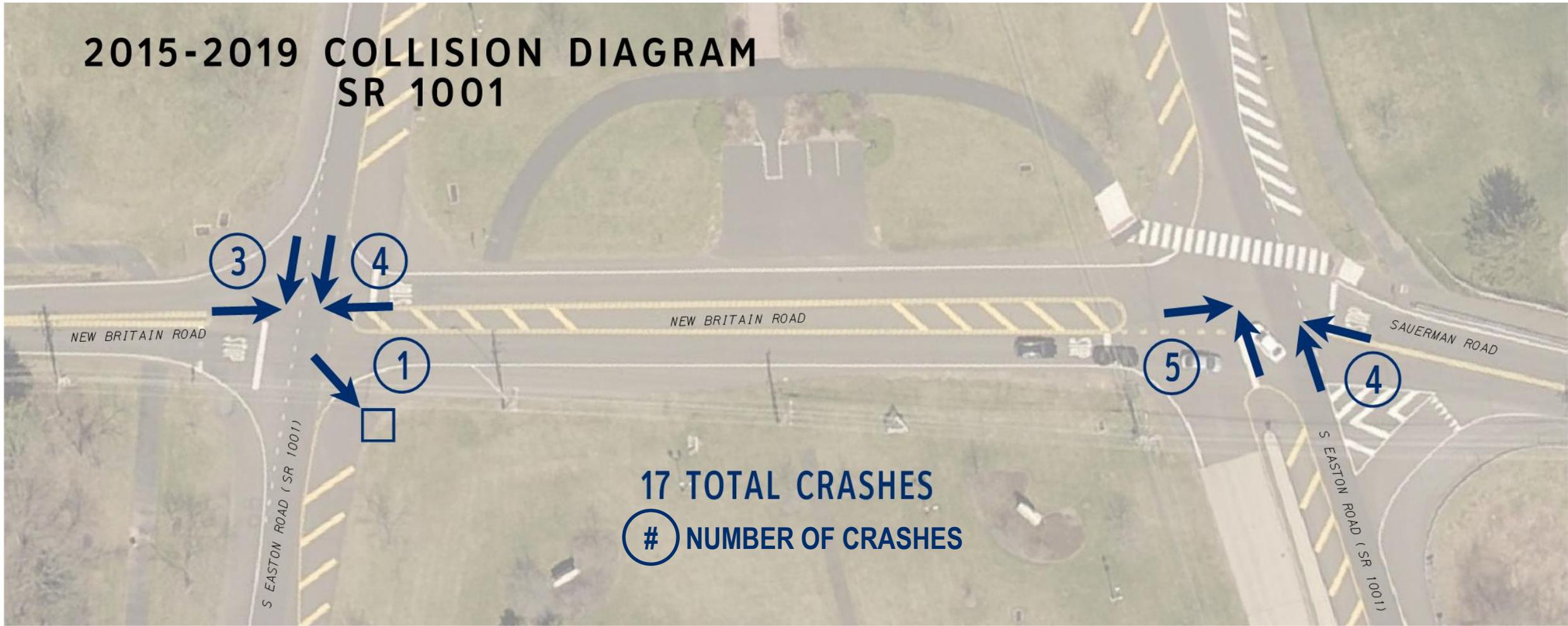


PROJECT OVERVIEW



CRASHES

2015-2019 COLLISION DIAGRAM SR 1001



PROJECT OVERVIEW

Purpose

The purpose of the proposed project is to increase safety, relieve congestion, and improve accessibility at the existing intersections of S. Easton Road (SR 1001) and New Britain Road (T-345).

Need

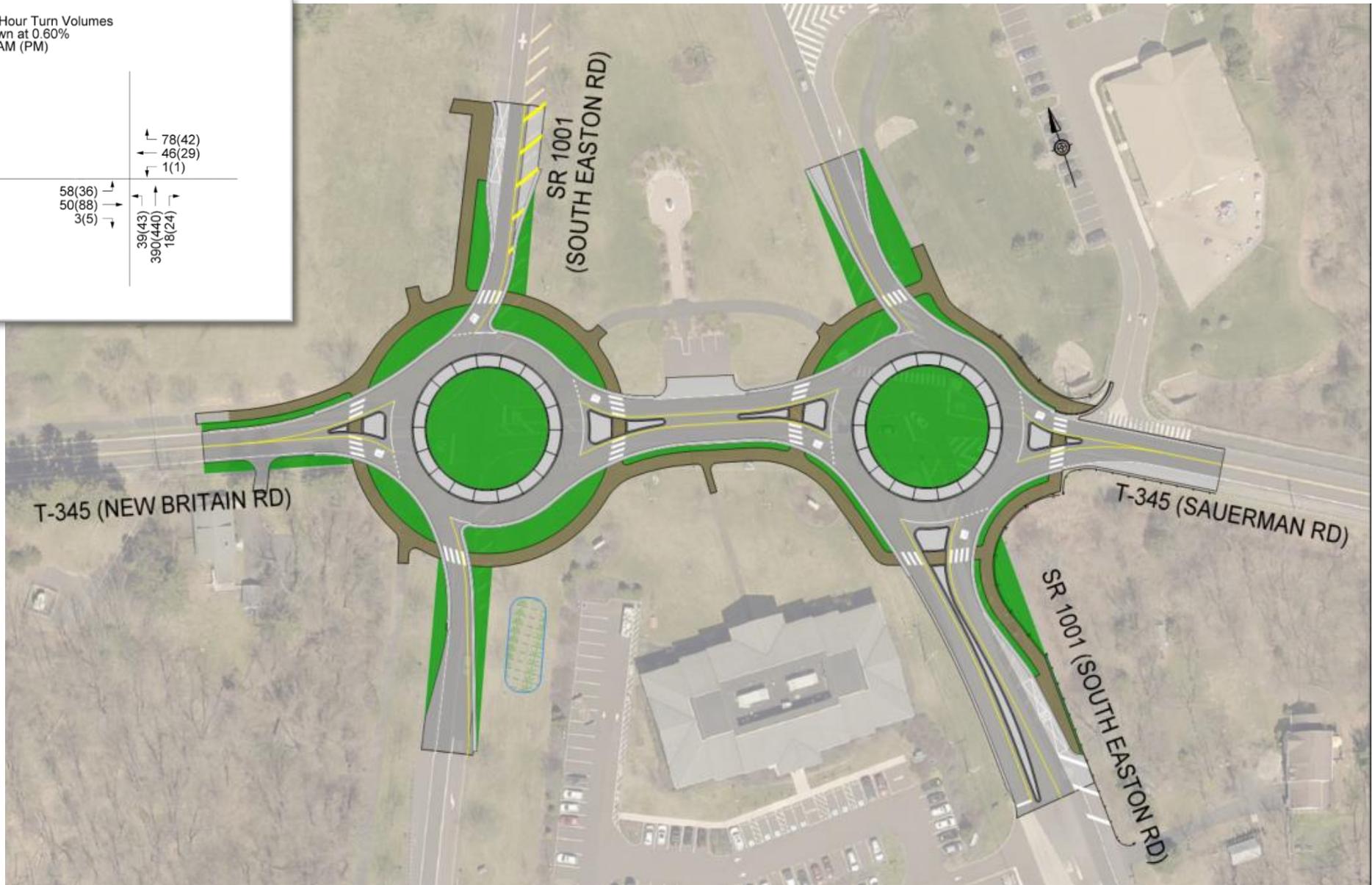
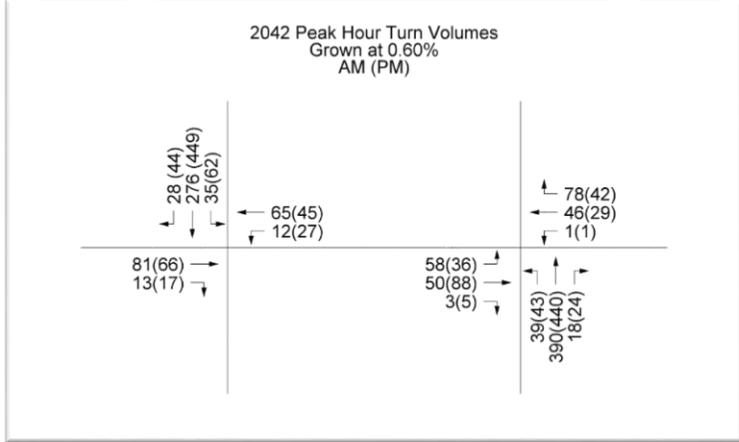
- High crash history
- Inadequate pedestrian/ bicycle/transit connections
- Delay on the side streets



ENVIRONMENTAL FEATURES



PRELIMINARY DESIGN



OPERATIONS

Roundabout at Intersection of
S. Easton Road (SR 1001) & New Britain Road

Preliminary Engineering - March 2021

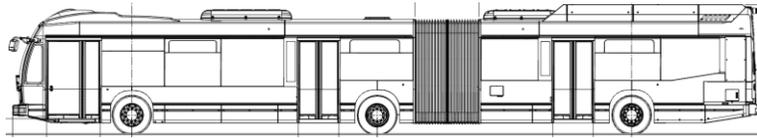
Simulation of PM Peak in 2042



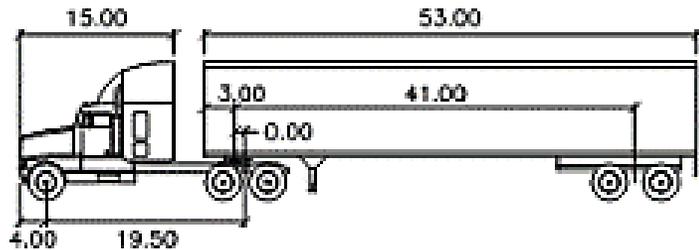
OPERATIONS

Large Vehicles Accommodations

Doylestown Township Fire Department
Longest apparatuses they have is 42 ft. 5 in.

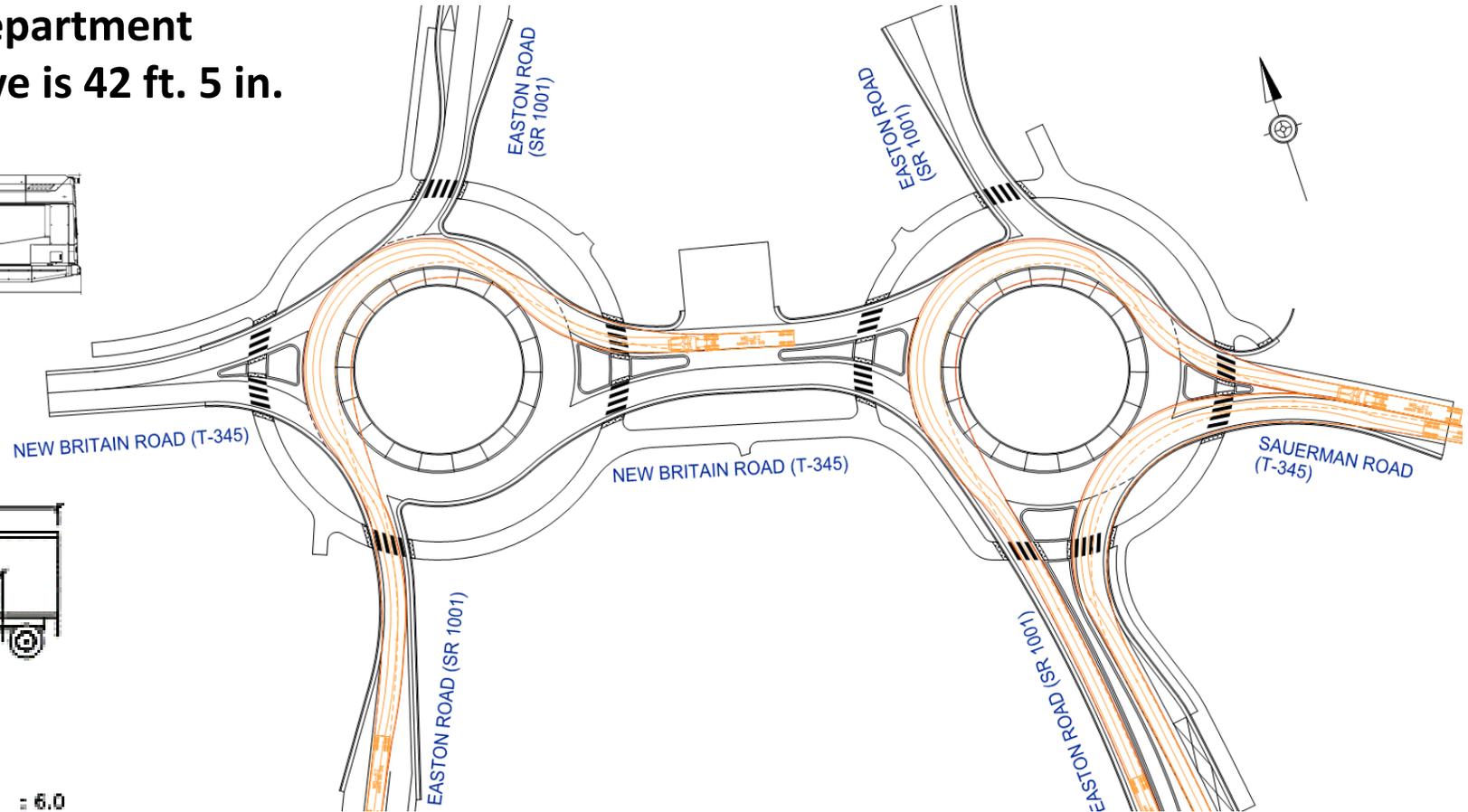


SEPTA Route 55



WB-62 Ext

	feet		
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		

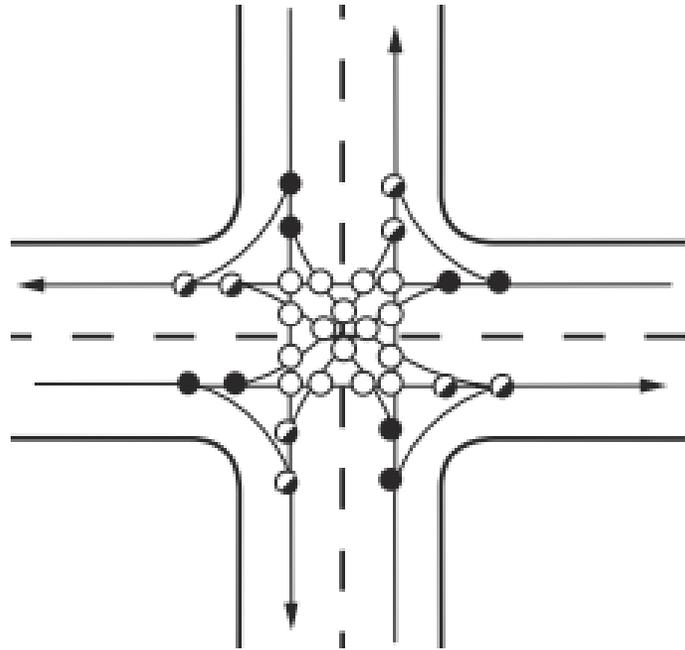


ABOUT ROUNDABOUTS

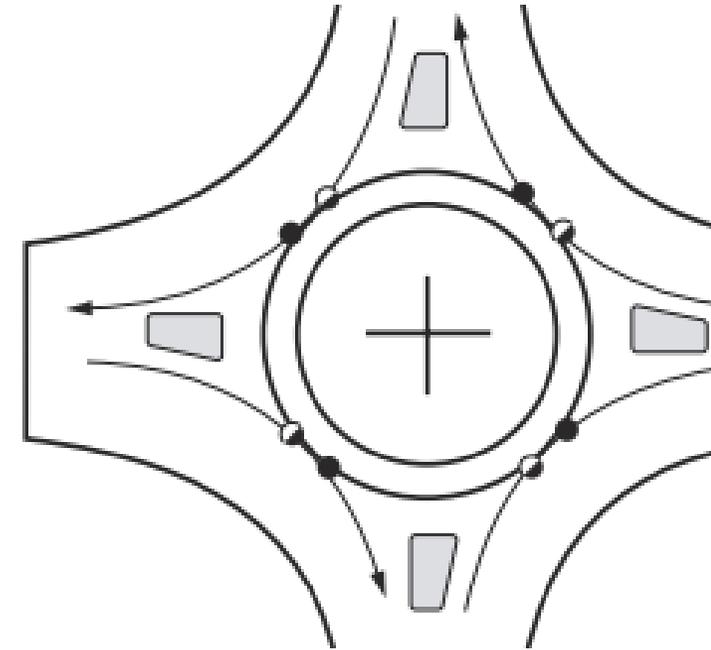
Benefits of Roundabouts

- Improve Safety
- Slower Vehicle Speeds
- Efficient traffic flow
- Reduces Pollution and Fuel Use
- Traffic Calming
- Gateway Opportunity

Vehicular Conflicts at Intersections



Traditional Intersection
32 Conflict Points

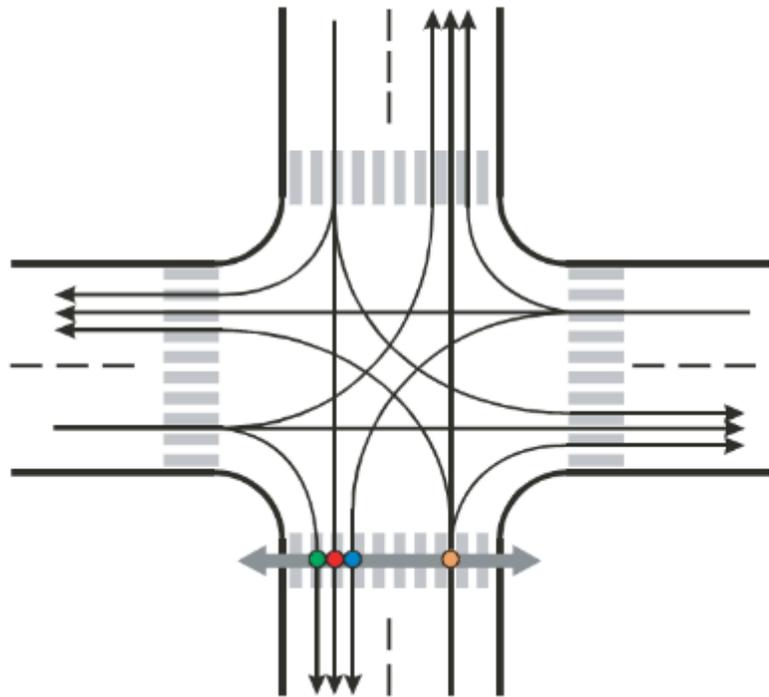


Roundabout
8 Conflict Points

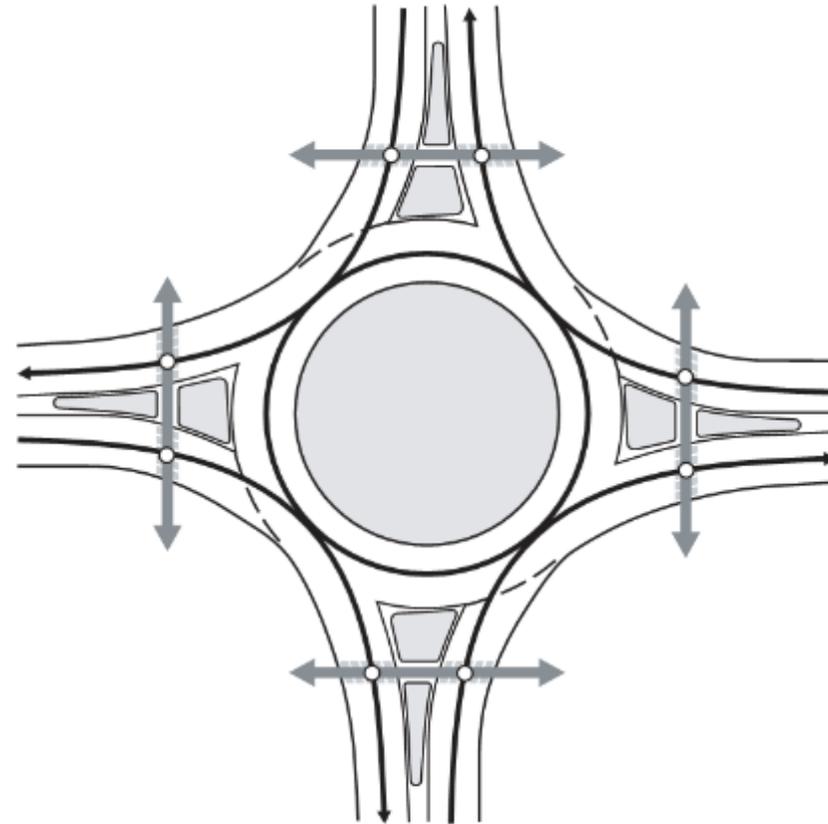


ABOUT ROUNDABOUTS

Pedestrian Conflicts at Intersections



- Right turn on green conflict
- Red light running conflict
- Left turn on green conflict
- Red light running or right turn on red conflict



○ Vehicle/Pedestrian Conflicts

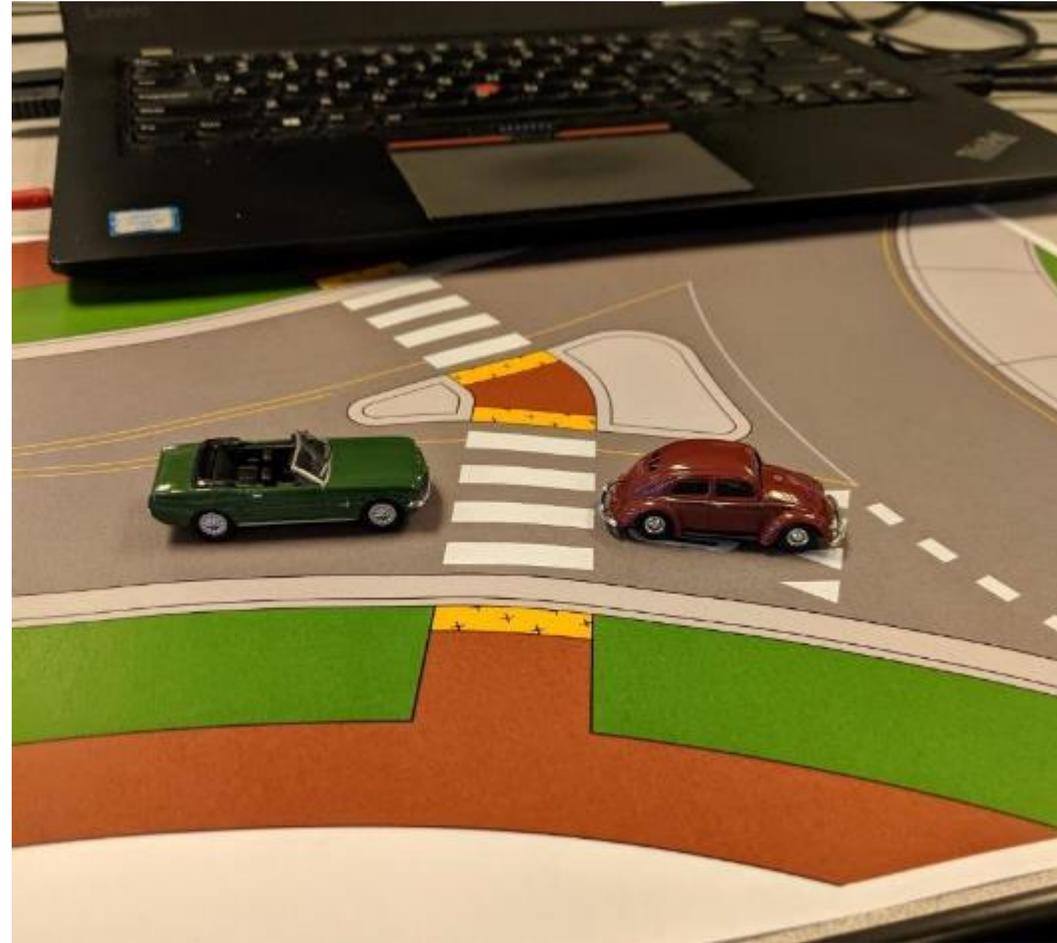
Source: NCHRP Report 672, 2nd Edition



ABOUT ROUNDABOUTS

Pedestrian Crossings at Roundabouts

- Crosswalks setback one car length
- Separates conflicts between cars and pedestrians
- Allows pedestrians to cross when cars are queued



Source: Andrew Thompson

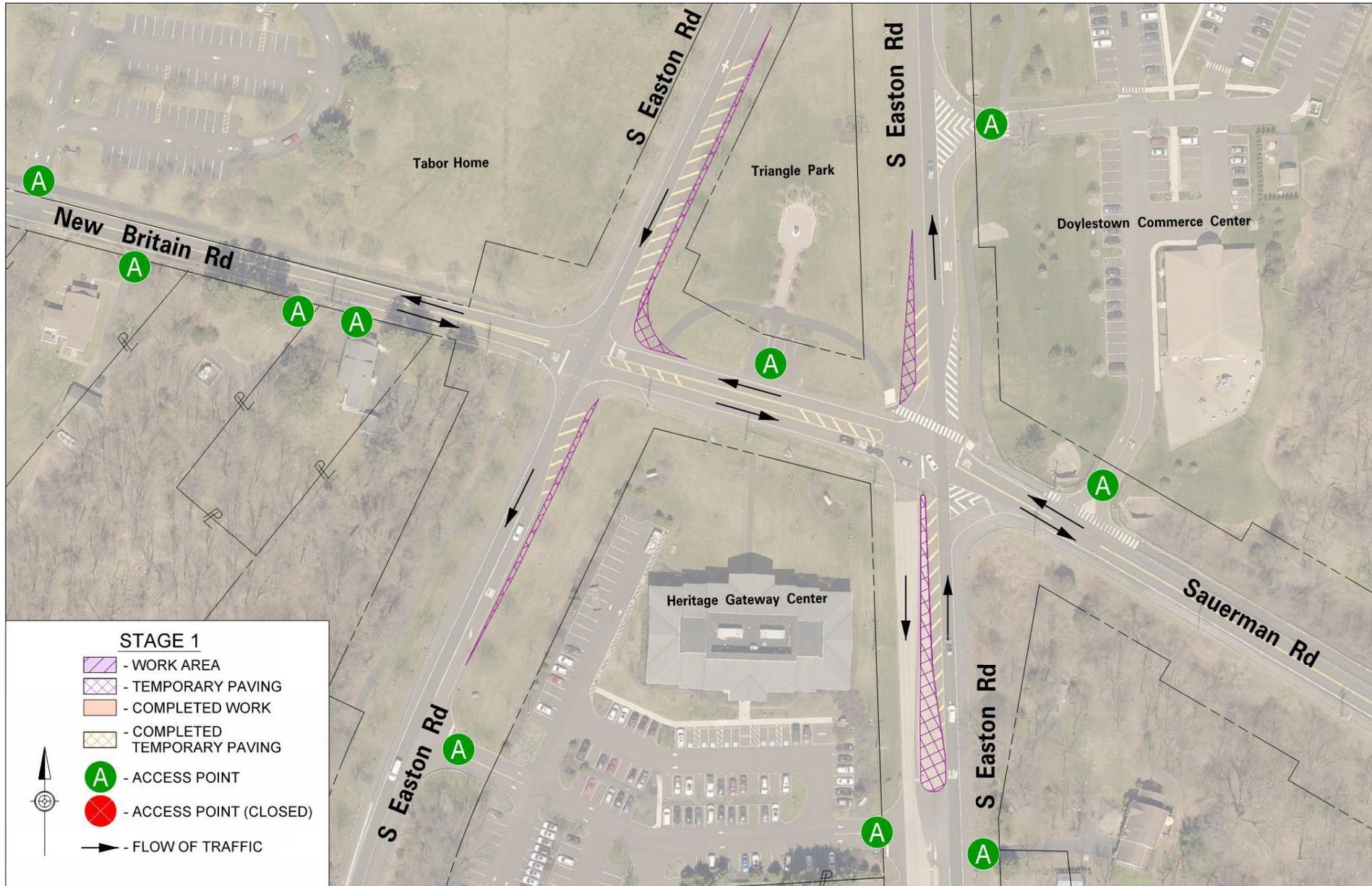


SAFETY CONSIDERATIONS

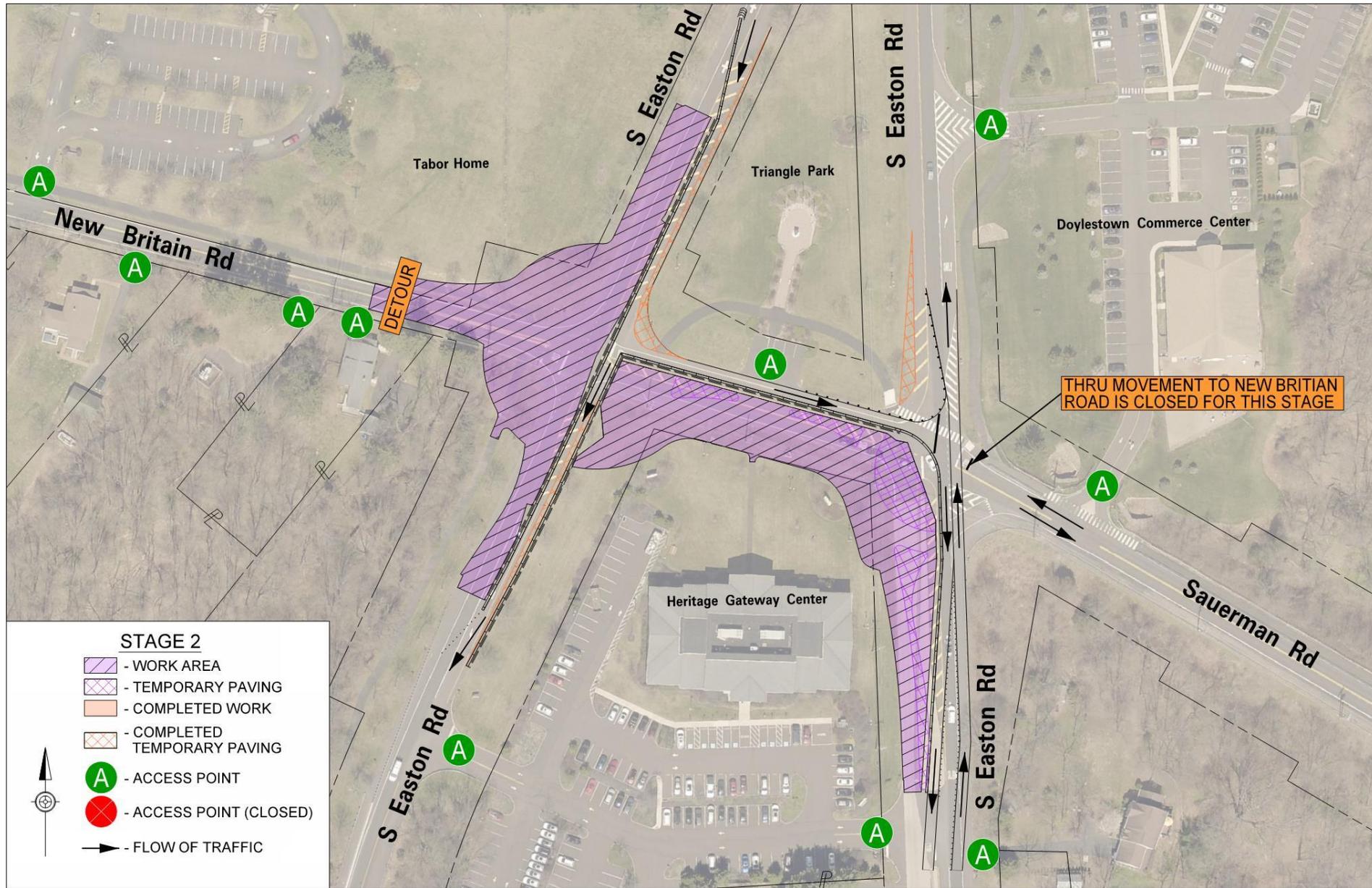
Lighting



CONSTRUCTION - STAGE 1



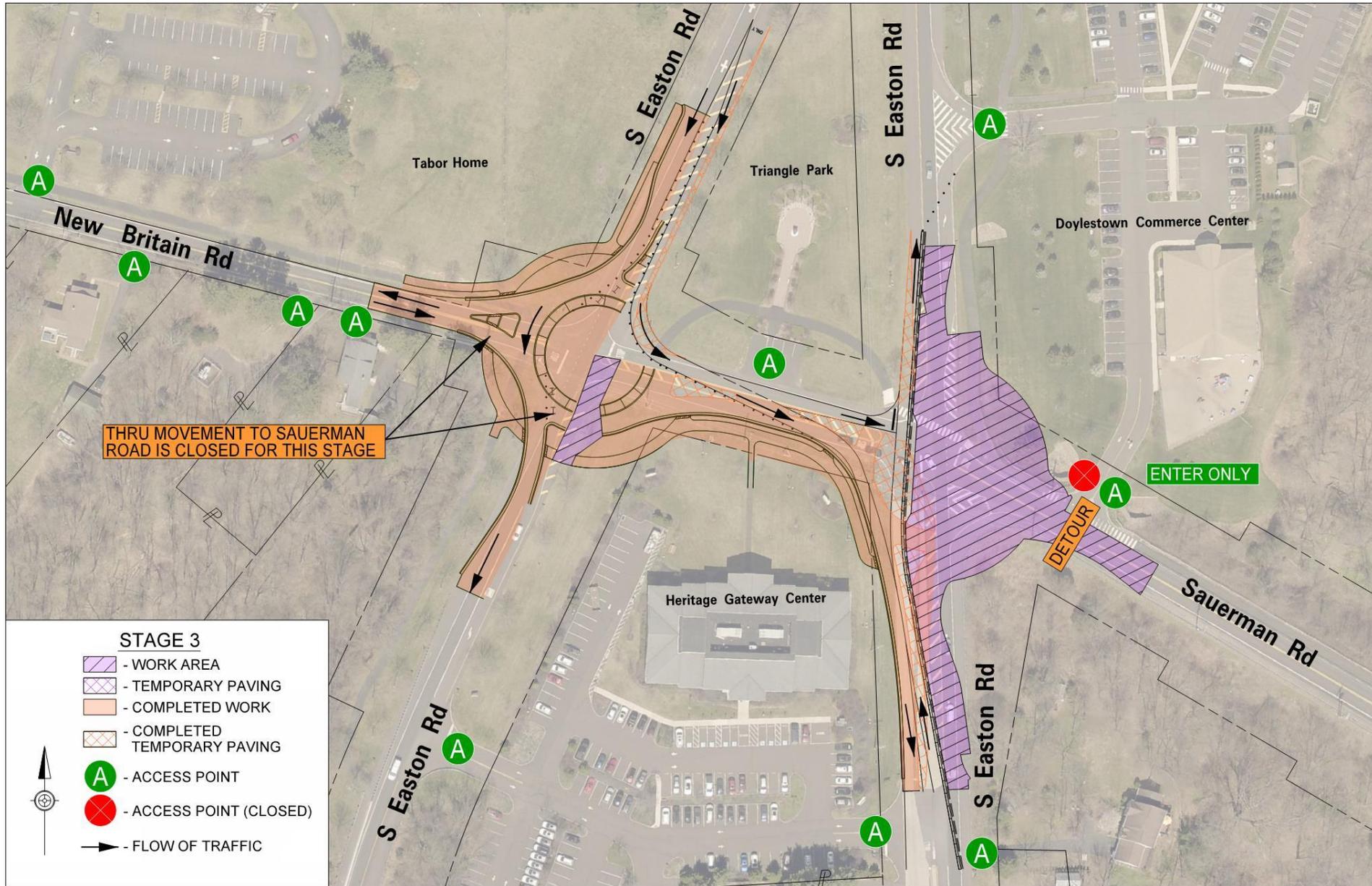
CONSTRUCTION - STAGE 2



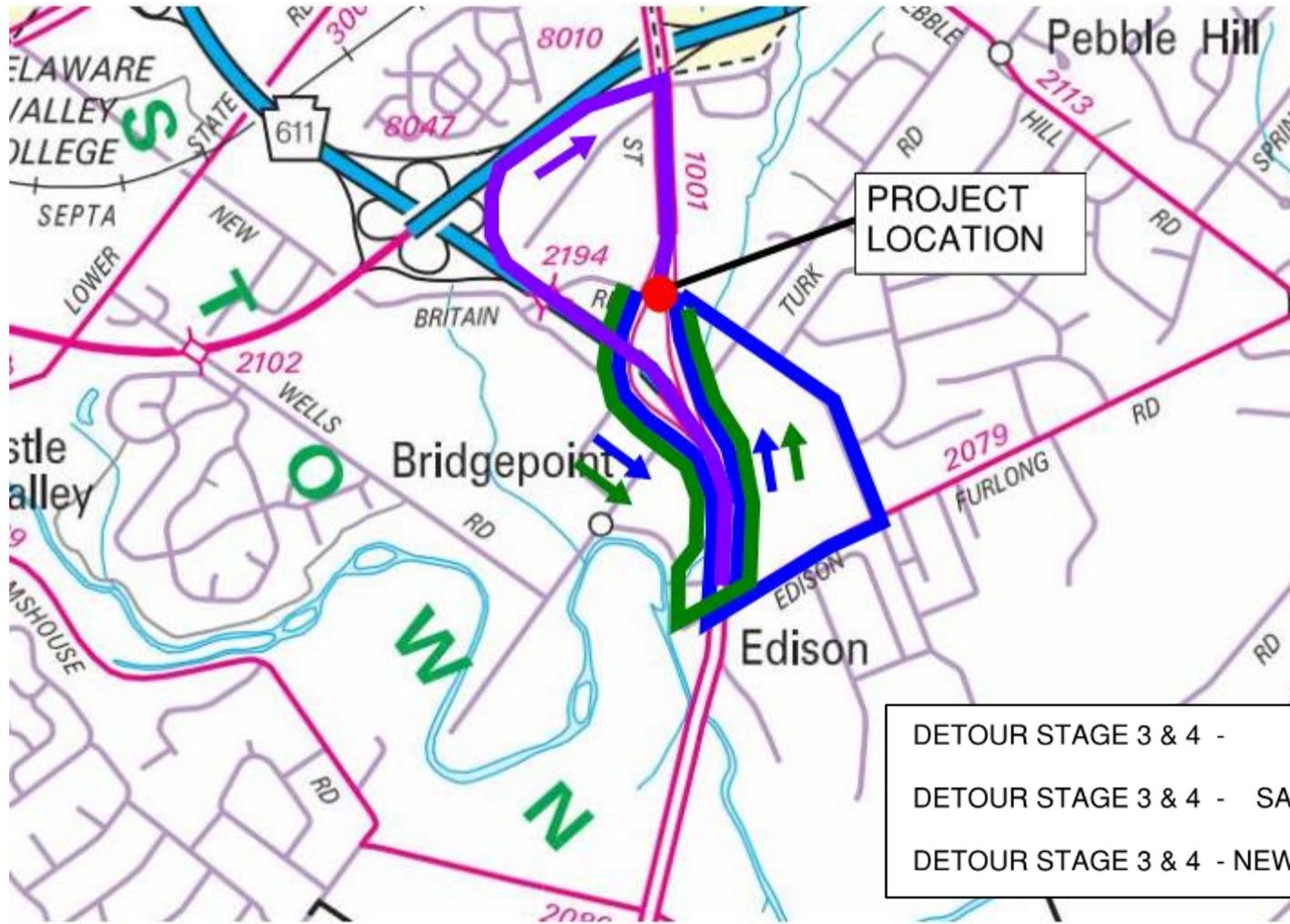
POTENTIAL STAGE 2 DETOUR



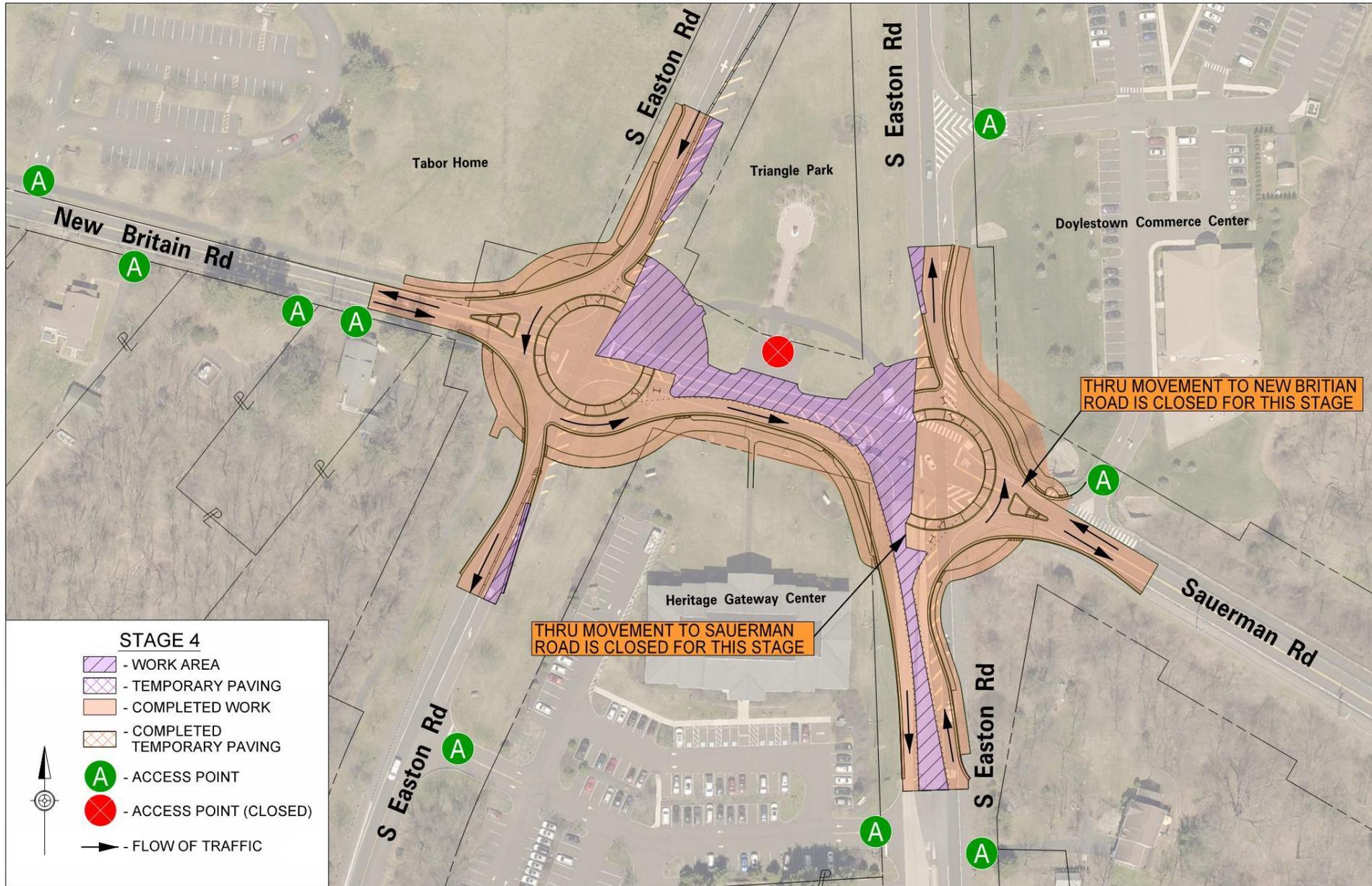
CONSTRUCTION - STAGE 3



POTENTIAL STAGE 3 & 4 DETOUR



CONSTRUCTION - STAGE 4



CONSTRUCTION OVERVIEW

Construction Schedule

Construction Begins (Tentative Let Date - May 26, 2022)	Summer 2022
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Detour Implementation	Spring 2023
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Detour Removal (Open to Traffic)	Fall 2023
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Finished Construction	Spring 2024
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NEXT STEPS

- Summarize input and collect comment forms
- Incorporate public feedback
- Final Design
- Construction



THANK YOU

Contact Information

Consultant Project Manager, George Gumas, P.E.
610-757-1877 | c-ggumas@pa.gov

For more information about roundabouts:

<http://rab6.info/educational/index.html>

To comment, visit:

www.Penndot.gov/EastonRoadRoundabouts

MARCH 2021