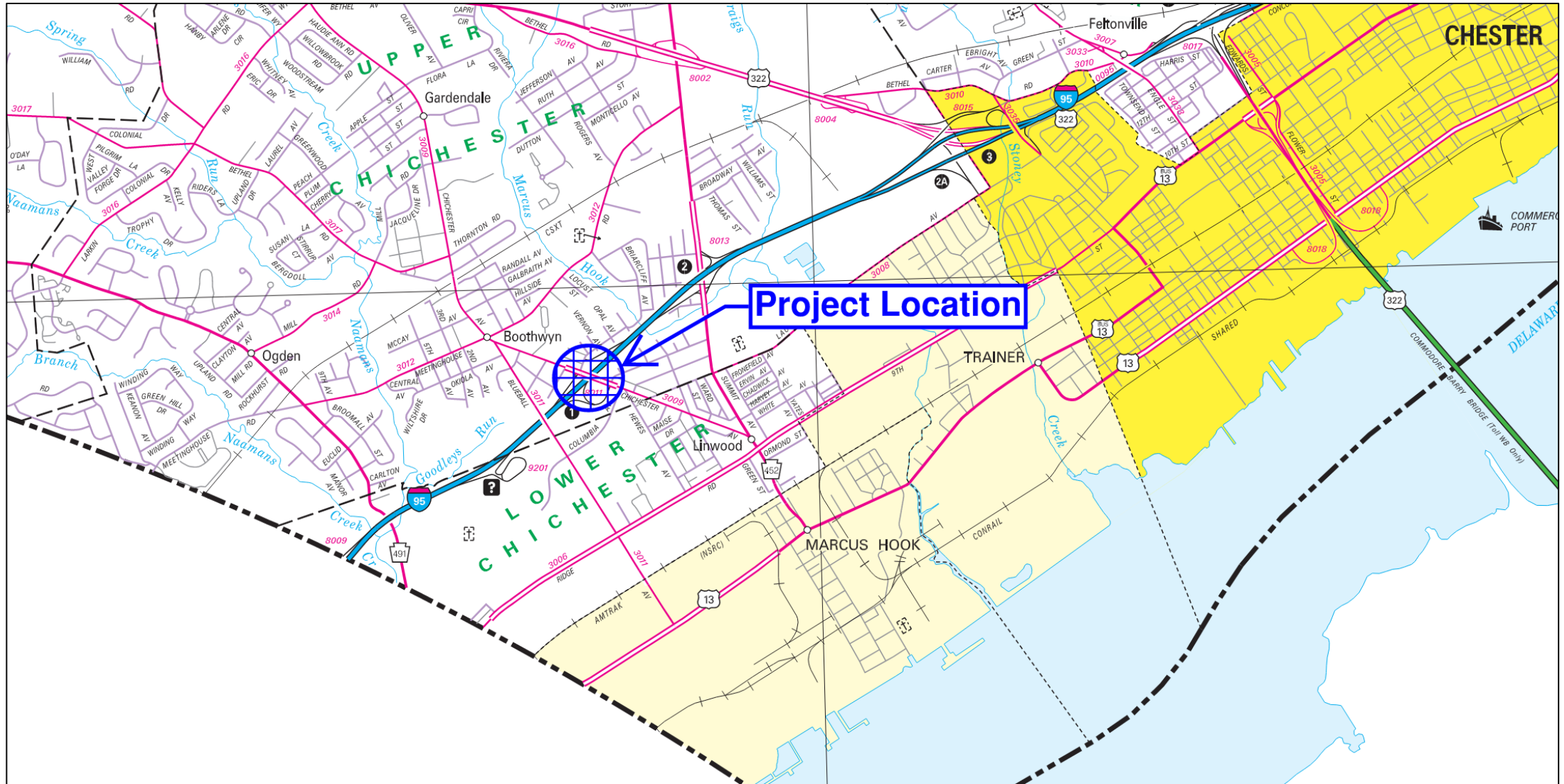


CHICHESTER AVENUE ROUNDAABOUTS AT I-95: A SAFETY IMPROVEMENT PROJECT



Vincent Cerbone, Drew Sirianni, Jeffrey Hanna
November 12, 2025

PROJECT LOCATION



EXISTING CONDITION

I-95 South Ramps / Pleasant Avenue



North



EXISTING CONDITION

I-95 North Ramps / Johnson Avenue



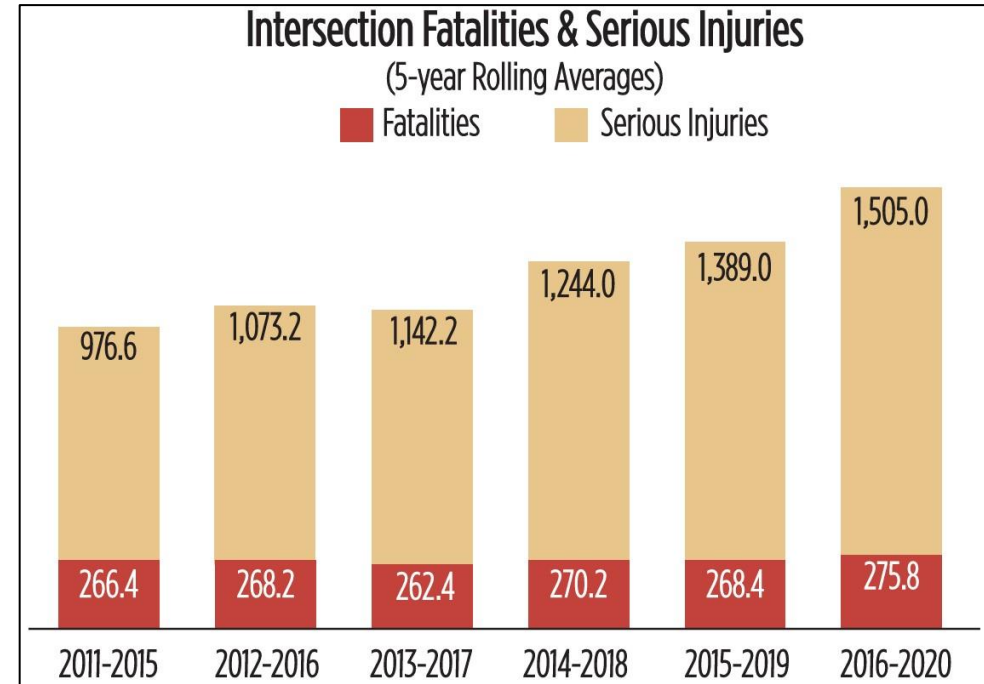
PROJECT NEEDS AND PURPOSE

- Needs

- Based on existing crash data
 - Rear and angle crash rates greater than expected
 - % of crashes involving injury or fatality greater than expected
 - > 50% of crashes involved injury of at least one person

- Purpose

- Improve safety and efficiency for motorists, pedestrians, and emergency services on Chichester Avenue from Bethel Road/ Thornton Road to Laughead Avenue.



Source: PA Strategic Highway Safety Plan, 2022



SAFETY ASPECTS

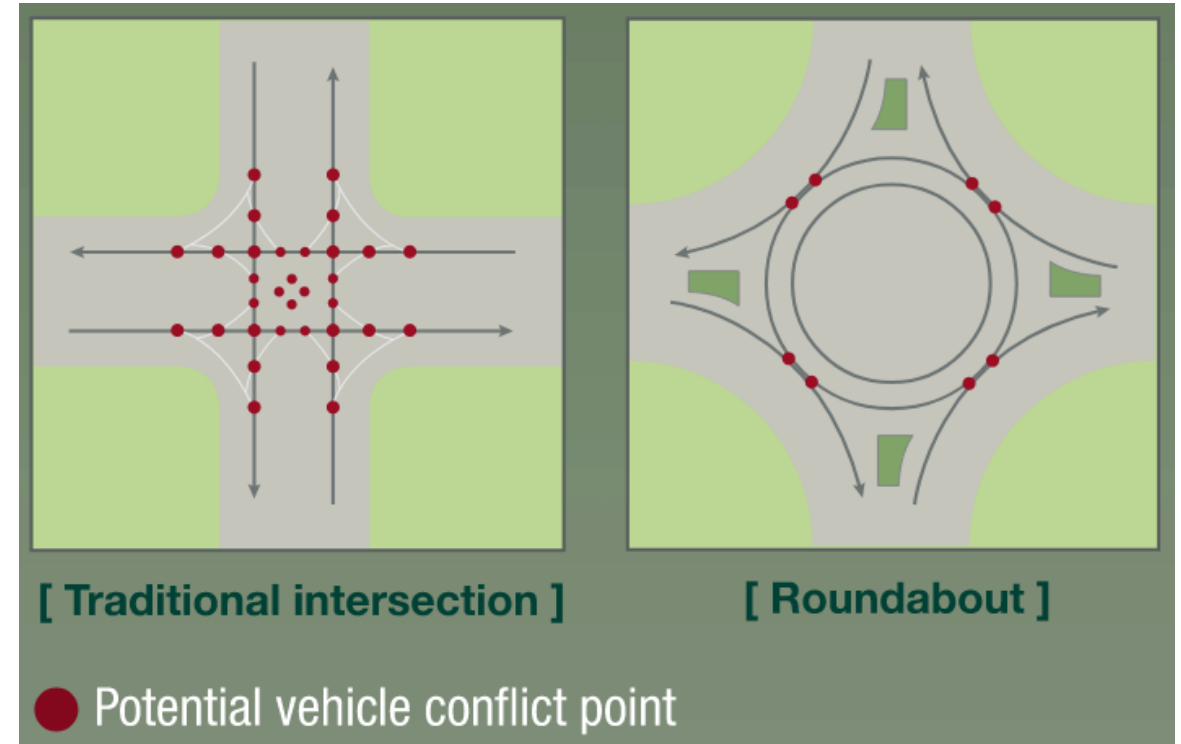
Lower Speeds

Fewer Conflict Points

Shorter Pedestrian Crossings

Fewer Crashes with Injuries

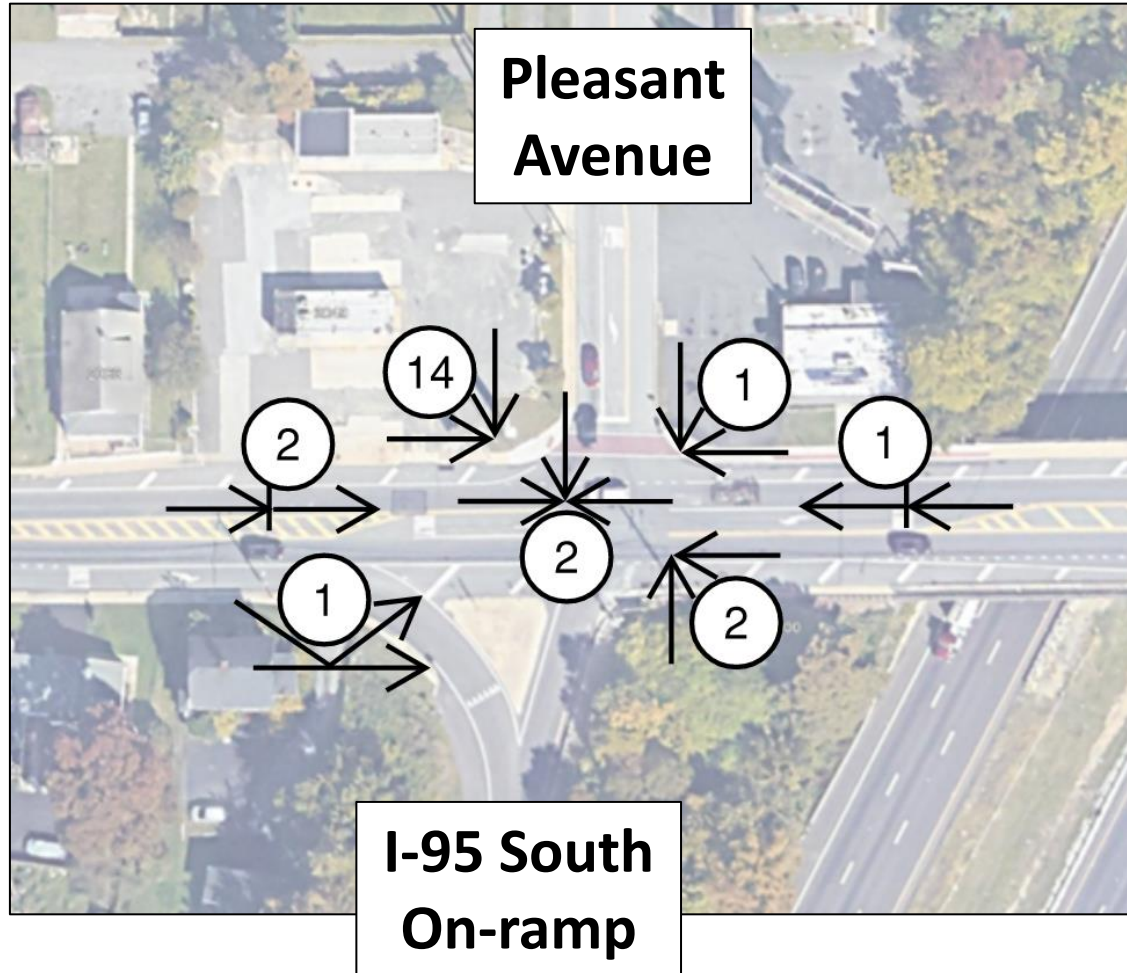
Reduced Congestion



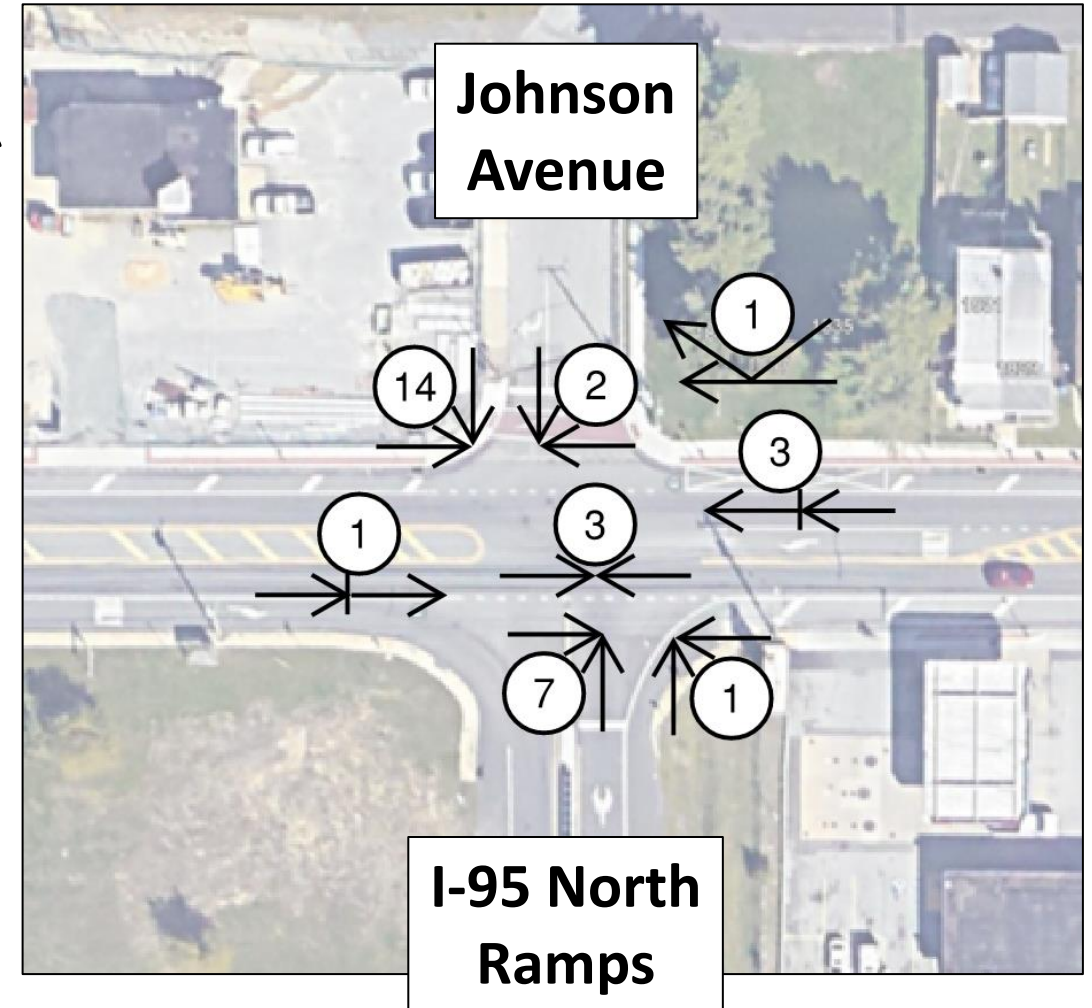
Source: Federal Highway Administration

CRASH ANALYSIS

23 Total Crashes



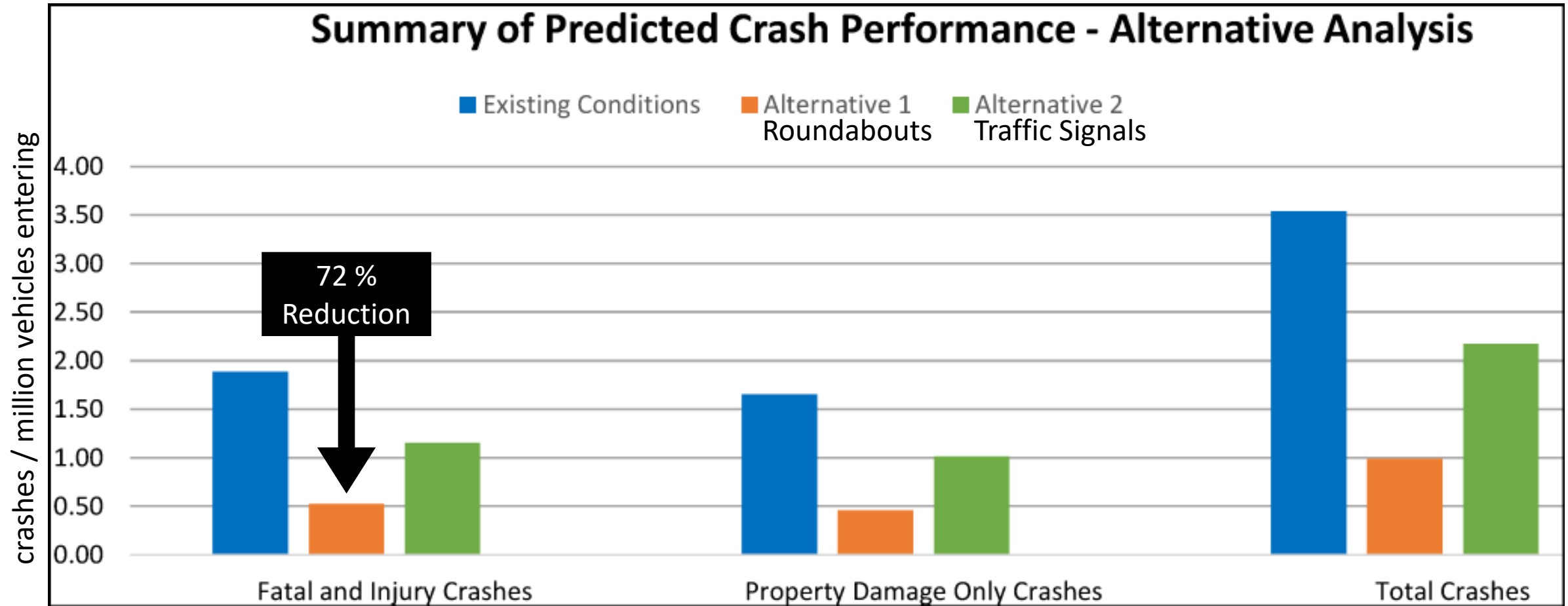
32 Total Crashes



2019 - 2023



ALTERNATIVES ANALYSIS



ADDITIONAL BENEFITS

Reduced Cost

Reduced Congestion

Reduced Air Pollution

Improved Off-Peak Traffic Condition

Improved Aesthetics



Frankford/Trenton/York Roundabout
Source: Atlas, City of Philadelphia



PROPOSED CONDITION

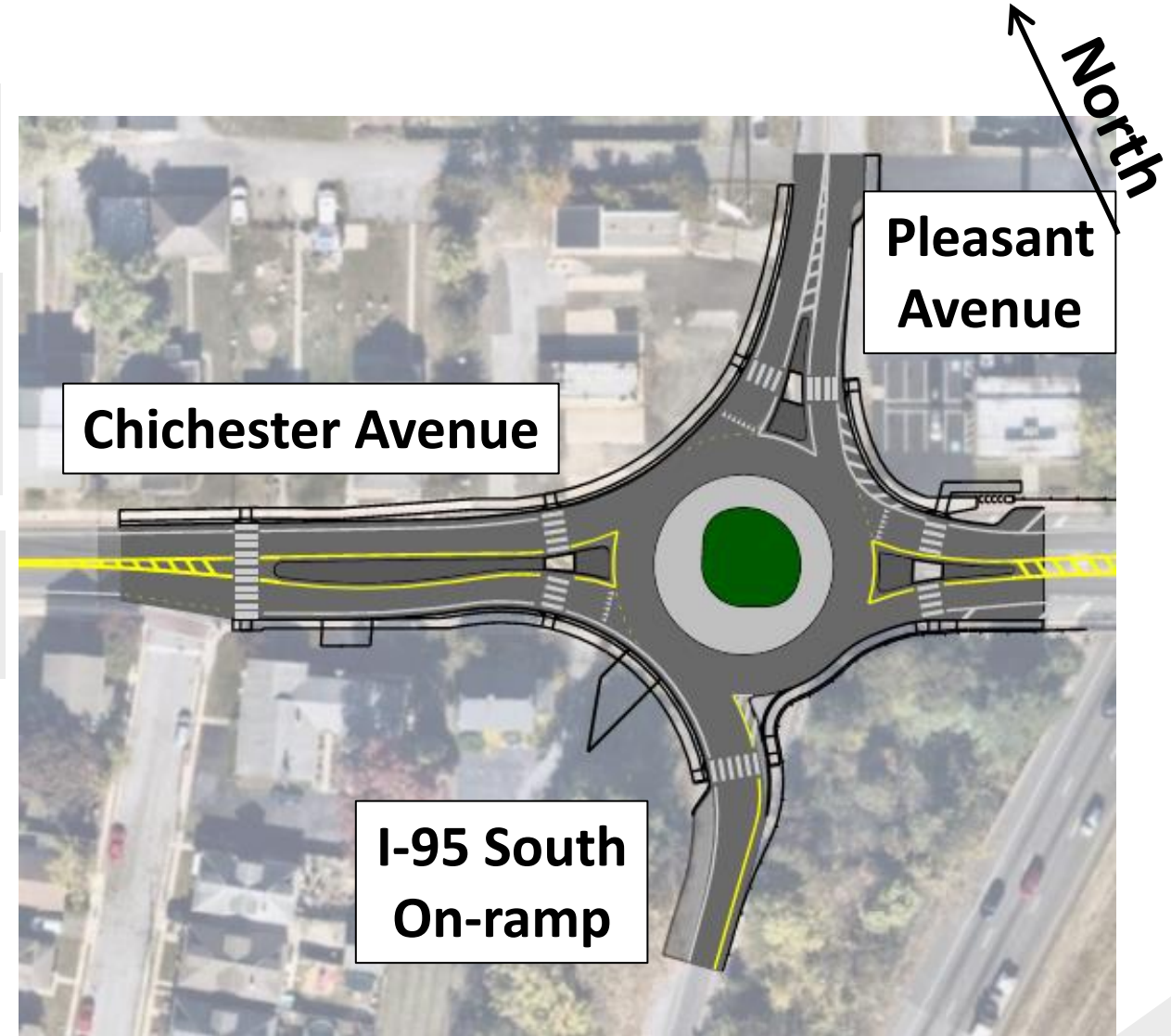
Reconstruction of Chichester Avenue with two Roundabouts.

Reconstruction of Pleasant Avenue, Johnson Avenue, and I-95 Ramps at the approaches.

Resurfacing Between the two roundabouts.

Driveway Adjustments

Construction of sidewalks, ADA curb ramps, and crosswalks.



PROPOSED CONDITION

Signing and Pavement Marking Upgrades.

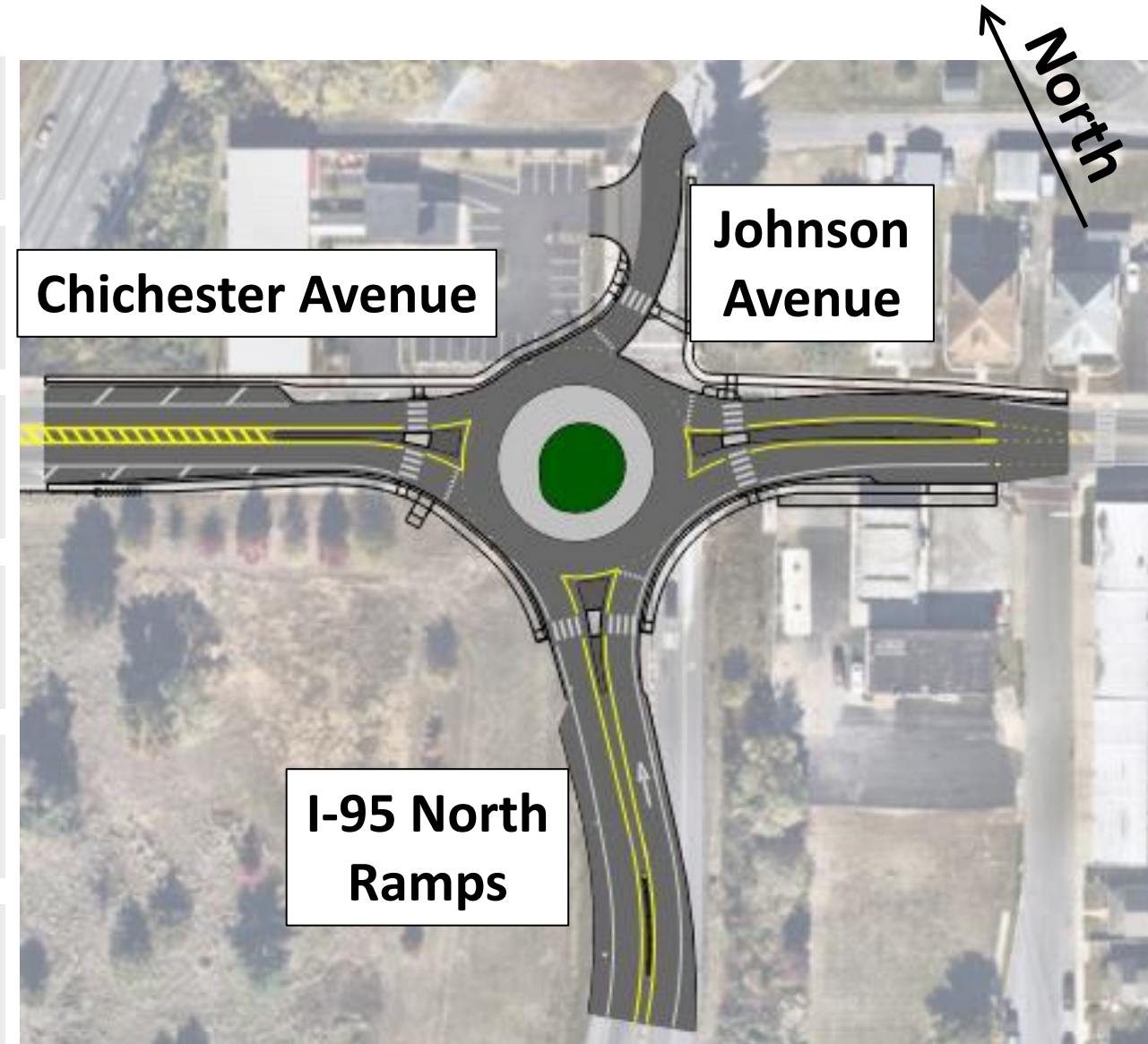
Installation of lighting at the roundabout and approaches.

Drainage and Stormwater Improvements.

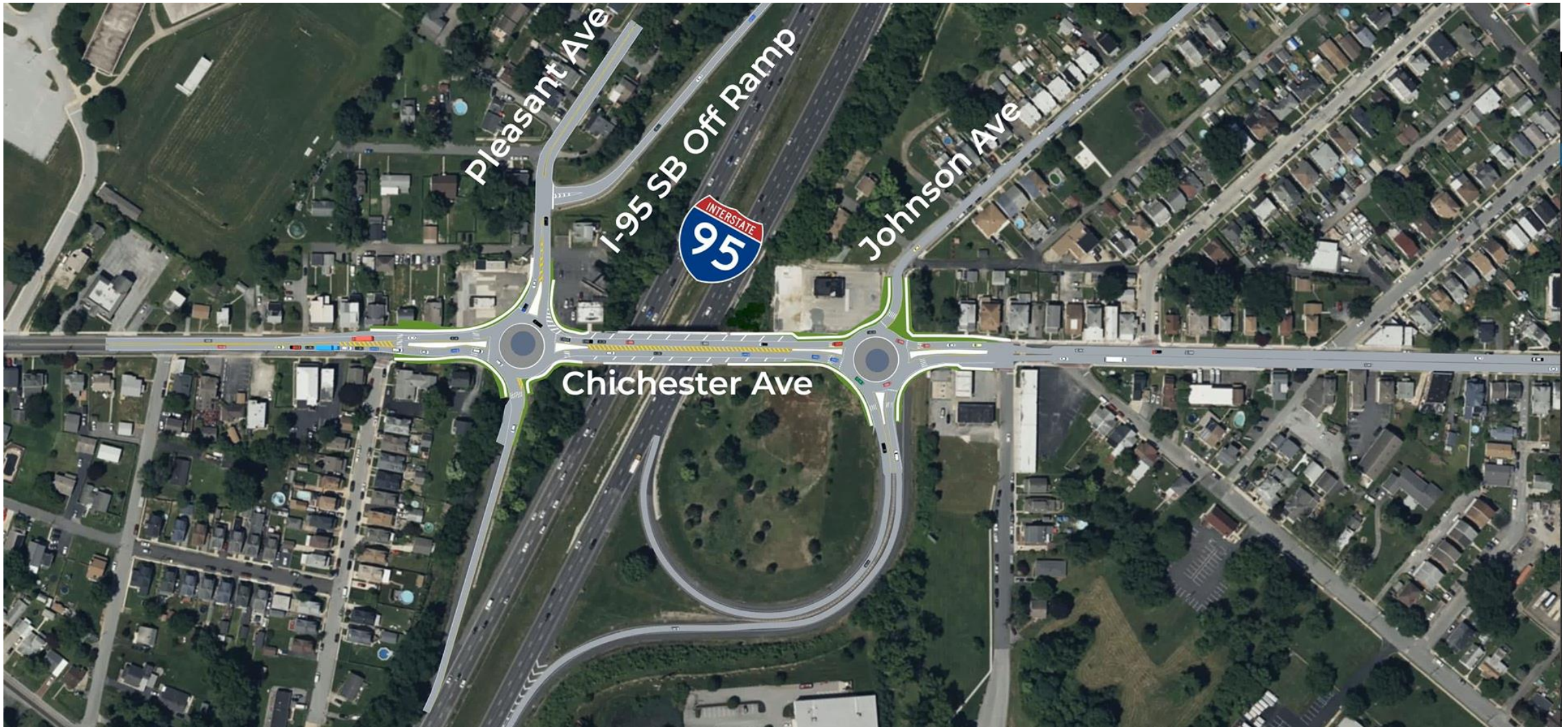
Utility Relocations

Guide Rail and End Treatment Replacement

Relocation of SEPTA Route 199 Bus Shelter.



ROUNDAABOUT OPERATIONS



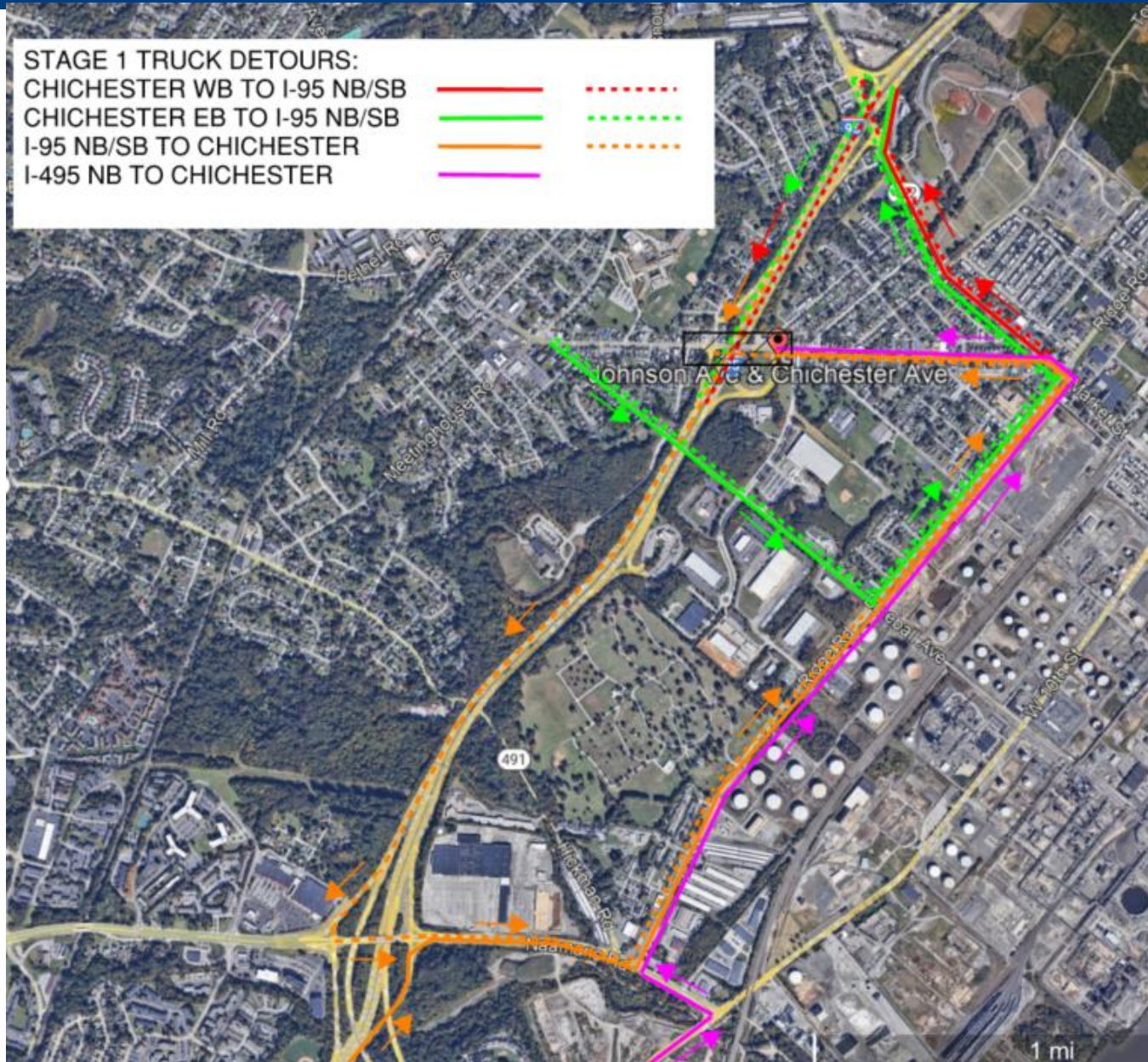
CONSTRUCTION STAGES

Stage 1 Work Zone



Duration: Approximately 5 to 7 Months

STAGE 1 DETOURS



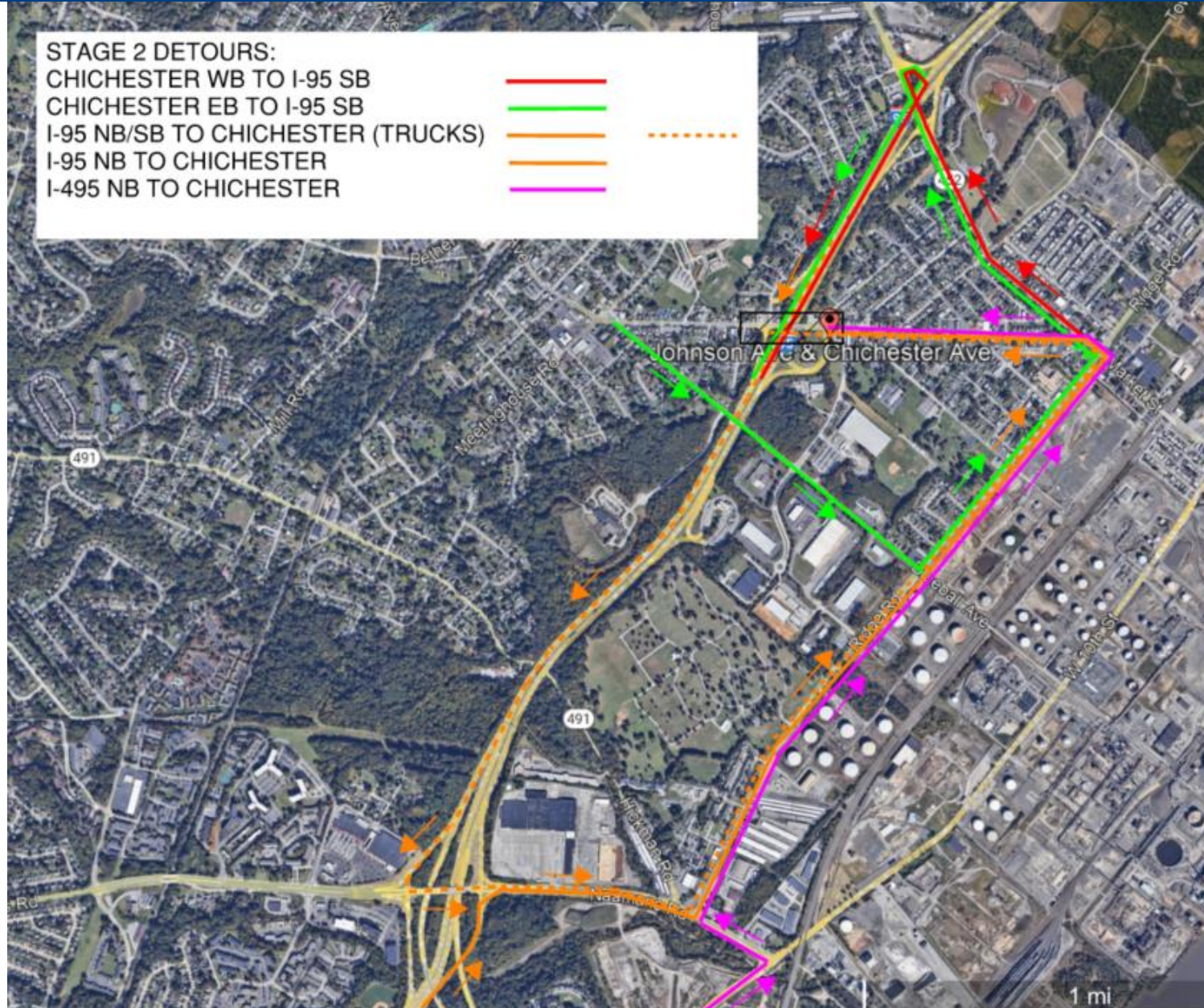
CONSTRUCTION STAGES

Stage 2 Work Zone



Duration: Approximately 5 to 7 Months

STAGE 2 DETOURS



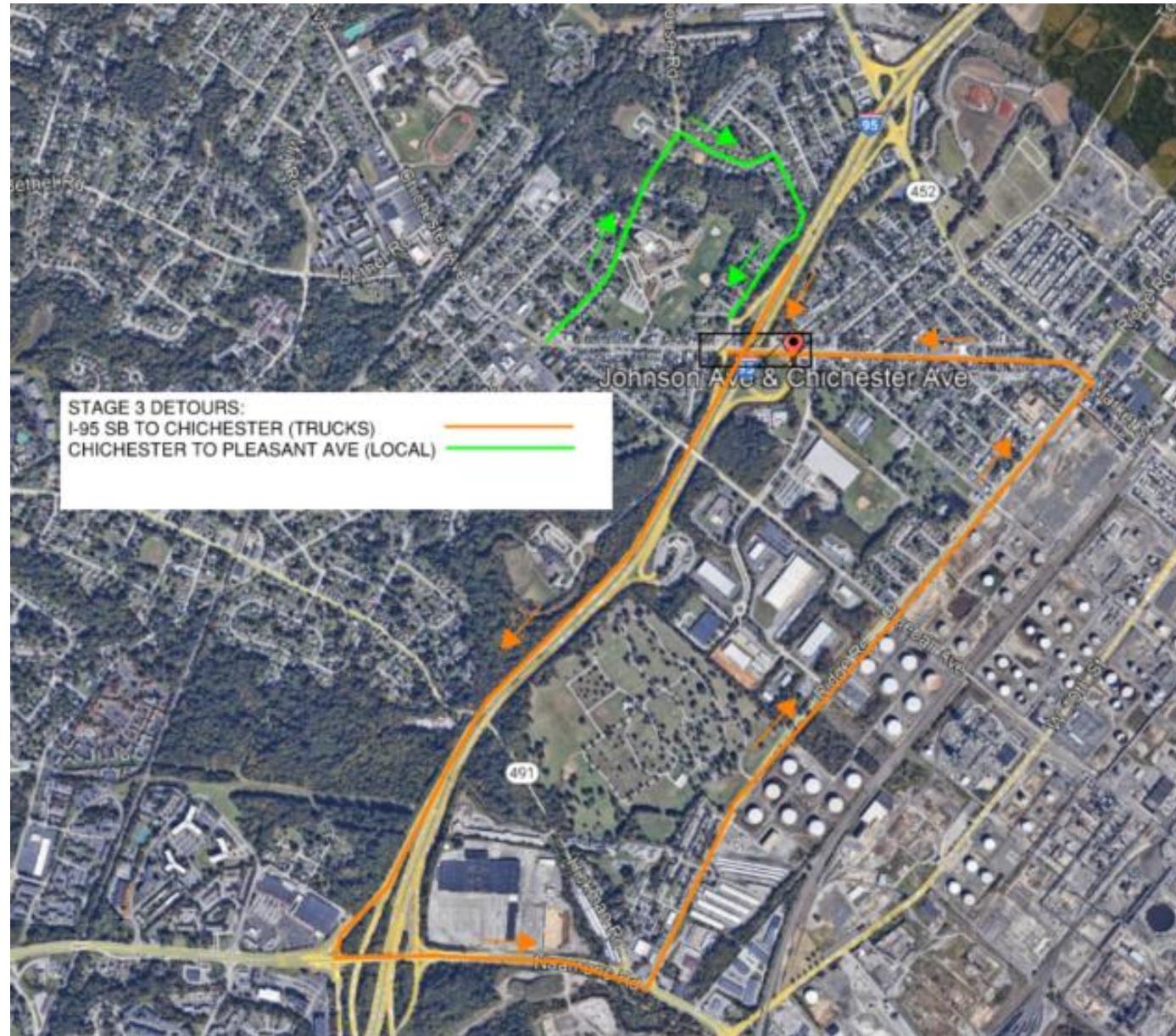
CONSTRUCTION STAGES

Stage 3 Work Zone



Duration: Approximately 5 to 7 Months

STAGE 3 DETOURS



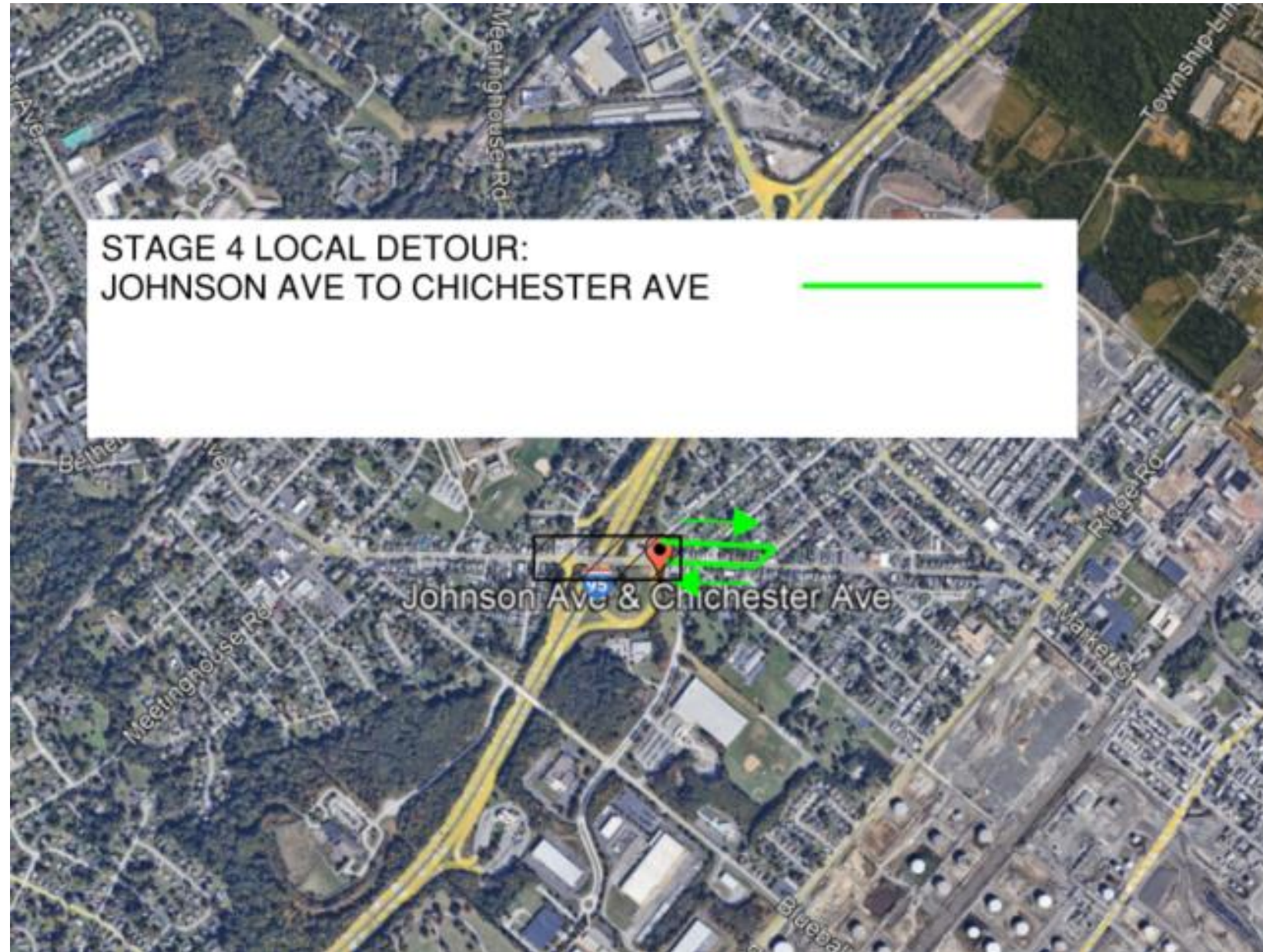
CONSTRUCTION STAGES

Stage 4 Work Zone



Duration: Approximately 5 to 7 Months

STAGE 4 DETOURS



PROJECT SCHEDULE

Task	'25	2026				2027				2028				2029				2030			
	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Preliminary Design*																					
NEPA Studies*																					
Utility Coordination*																					
ROW Acquisition																					
Permitting																					
Final Design																					
Contracting																					
Construction																					

* Current Activities

