

New Jersey Roundabouts

NJTPA's Pilot Roundabout Program and Examples in New Jersey

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NJTPA's Pilot Roundabout Program

- **Initiated in July 2015 as a HSIP funded Statewide Systemic approach**
- **One roundabout per subregion – 8 currently in the program**
- **Criteria**
 - **On a network screening list**
 - **Single lane roundabout**
 - **Traffic volumes between 8,000 - 19,000 AADT**
 - **Estimated construction costs less than \$1.75 M**
- **Design assistance offered**

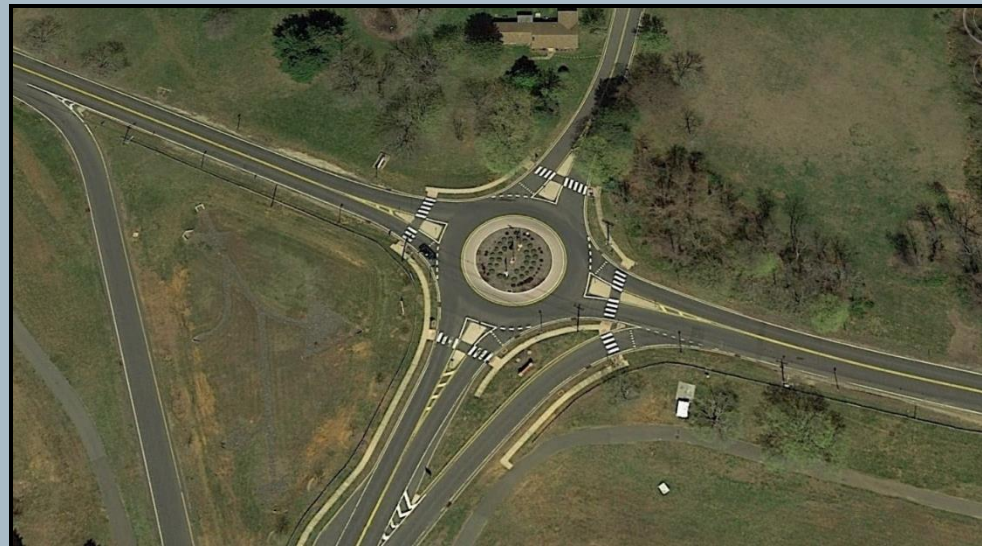
Examples of Existing Roundabouts in New Jersey

Monmouth County
Middletown Township
Brookdale Community
College Entrance



Newman Springs Road
and Campus Drive

Completed in 2007



Examples of Existing Roundabouts in New Jersey



*Existing Condition:
Skewed, 4-leg, amber flasher controlled*

**Burlington County
Chesterfield Township**

**Bordentown Chesterfield Road
and Old York Road**



Examples of Existing Roundabouts in New Jersey



*Existing Condition:
Skewed, 4-leg, stop controlled*



**Monmouth County
Colts Neck Township**

**Crine Road, Dutch Lane Road
and Heulitt Road**

Examples of Existing Roundabouts in New Jersey

Bergen County
Borough of Franklin Lakes

High Mountain Road
and Franklin Lakes Road

Completed 2014

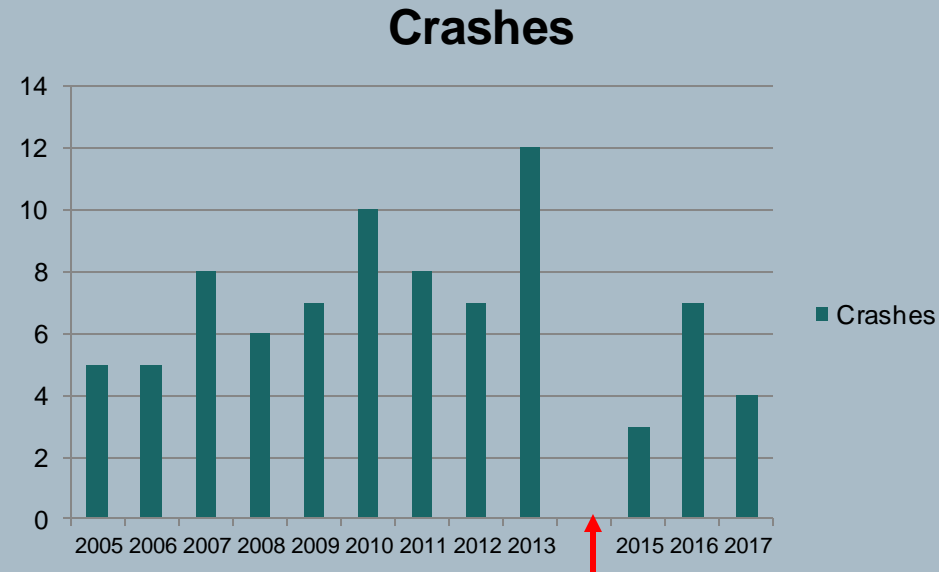


Examples of Existing Roundabouts in New Jersey



Bergen County
Borough of Franklin Lakes
High Mountain Road
and Franklin Lakes Road

Completed 2014



Construction Year: 2014

2011-2013
27 crashes
Average per
year: 9.0

2015-2017
14 crashes
Average per
year: 4.67

48% Decrease

Examples of Existing Roundabouts in New Jersey



Union County
Town of Westfield

NJ 28 and South Avenue

**Converted from a two lane
roundabout to a single
lane roundabout**



NJDOT Roundabouts: Mercer County - Hamilton



Existing Conditions:

- High Volumes
- Unique Traffic Operations
- High Crash Location
- US 206 Speed Limit 45 MPH

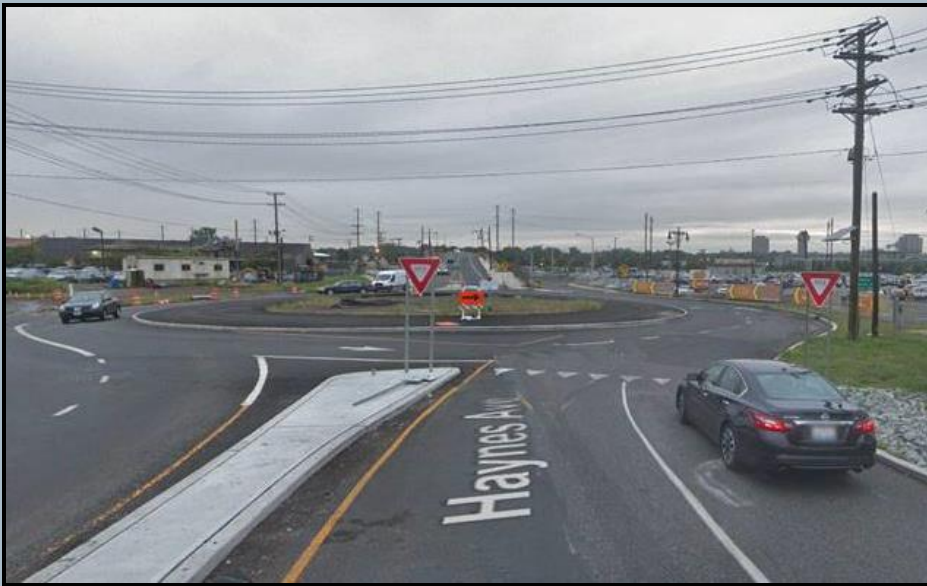
NJDOT Roundabouts: Mercer County - Hamilton



NJDOT Roundabouts: Mercer County - Hamilton



Examples of Existing Urban Roundabouts in New Jersey



City of Newark
Haines Avenue
(adjacent to Routes 1/9
and Newark Airport)

City of Bayonne
Avenue E
beneath Turnpike Exit 14A



Examples of Existing Urban Roundabout in New York City

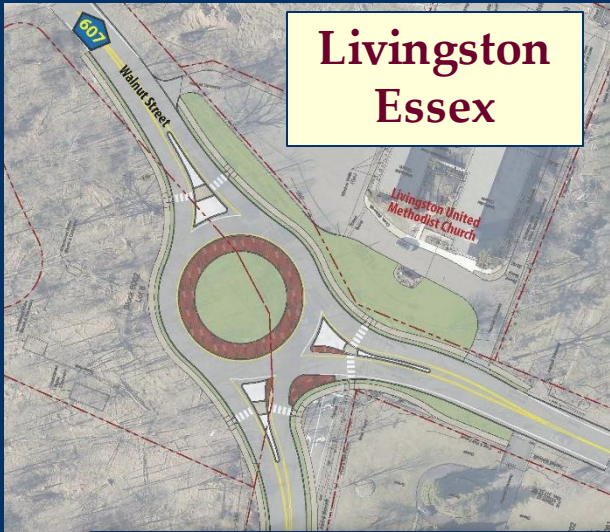


Bronx, New York
Interval Avenue

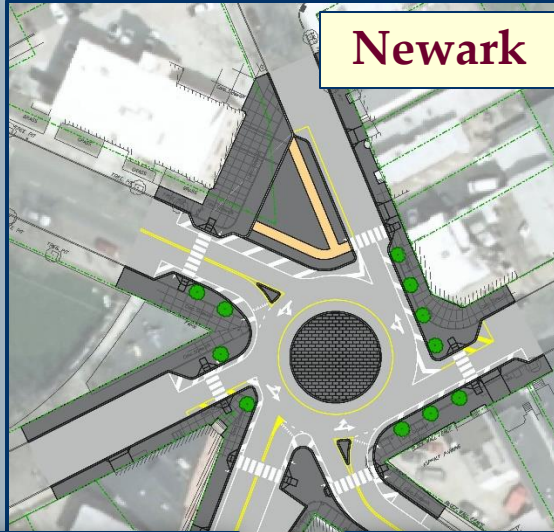


NJTPA Pilot Program Roundabouts in Preliminary Engineering

**Livingston
Essex**



Newark



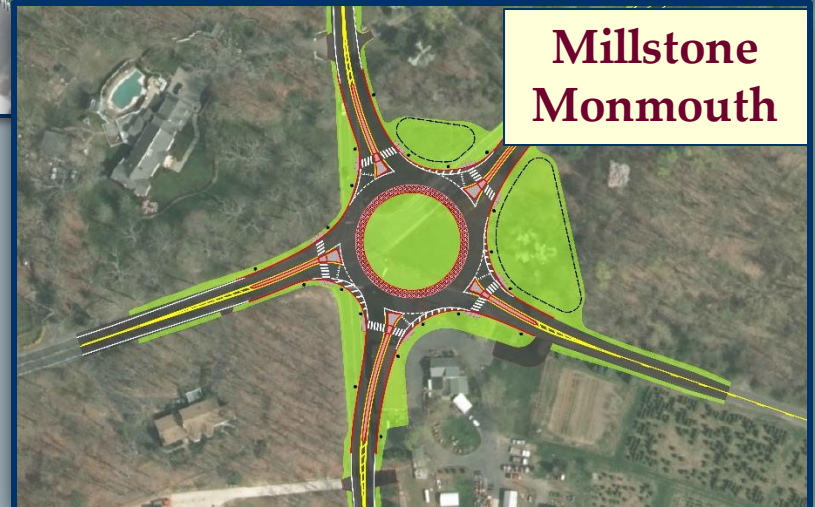
**N. Haledon
Passaic**



**Readington
Hunterdon**



**Millstone
Monmouth**



Pilot Program Roundabouts: Essex County - Livingston

Existing Conditions:

- Suburban Location
- Three-leg intersection
- All-way stop controlled
- Skewed approaches



Pilot Program Roundabouts: Essex County - Livingston



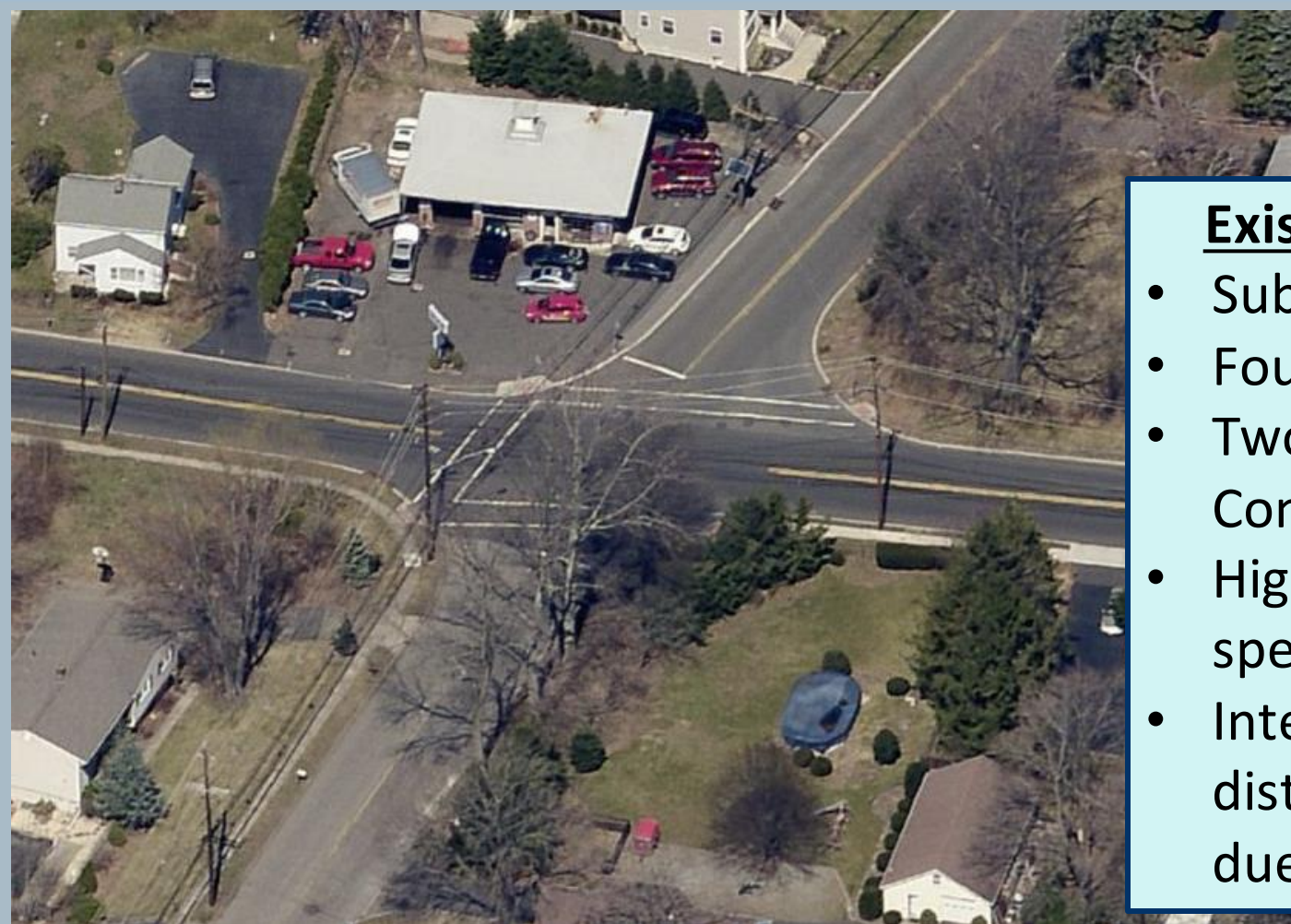
Pilot Program Roundabouts: Essex County - Livingston



Pilot Program Roundabouts: Passaic County – North Haledon

Existing Conditions:

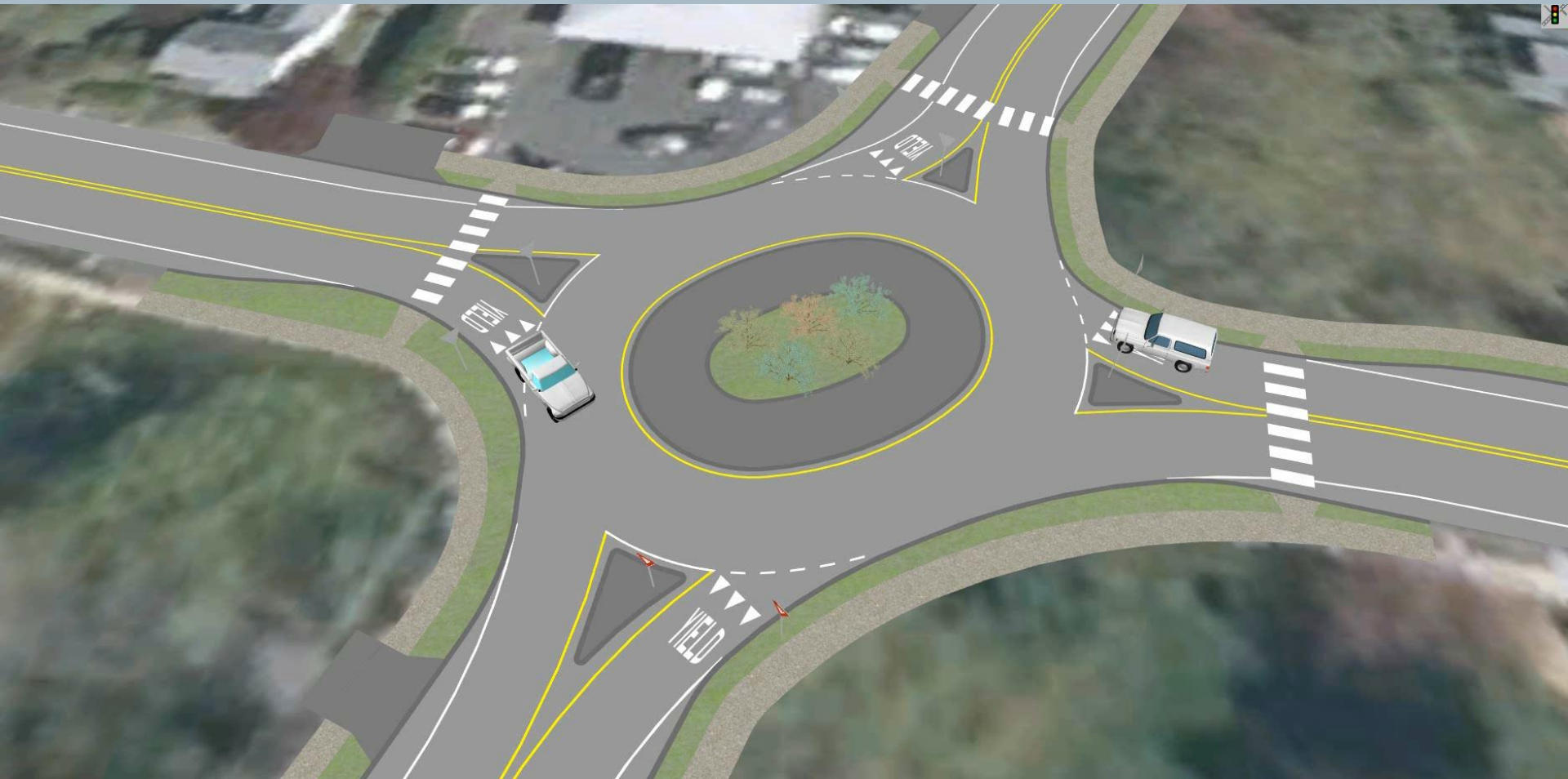
- Suburban Location
- Four-leg intersection
- Two-way Stop Controlled
- Higher than posted speeds
- Intersection sight distance challenges due to the skew



Pilot Program Roundabouts: Passaic County – North Haledon



Pilot Program Roundabouts: Passaic County – North Haledon



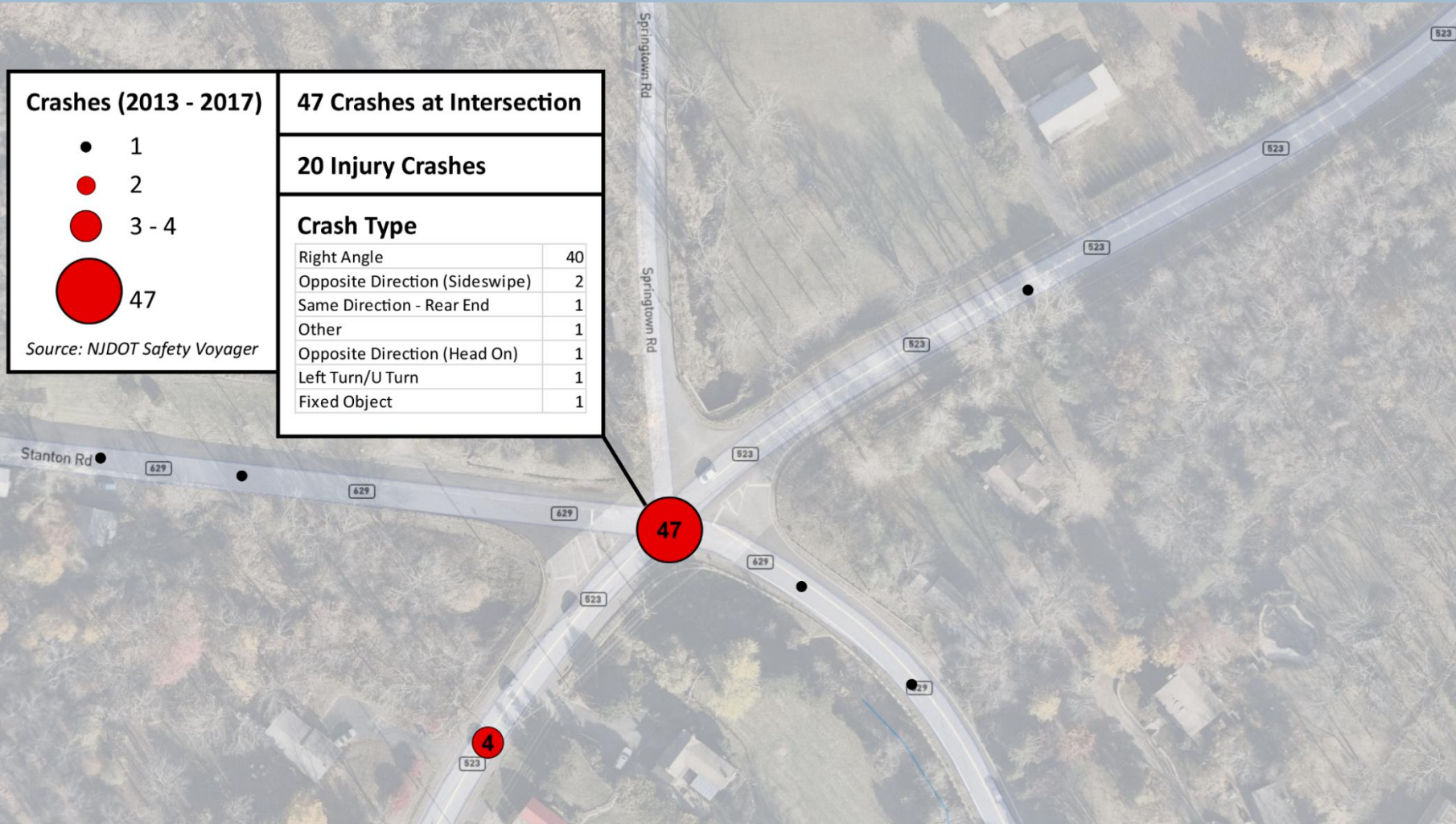
Pilot Program Roundabouts: Hunterdon County - Readington



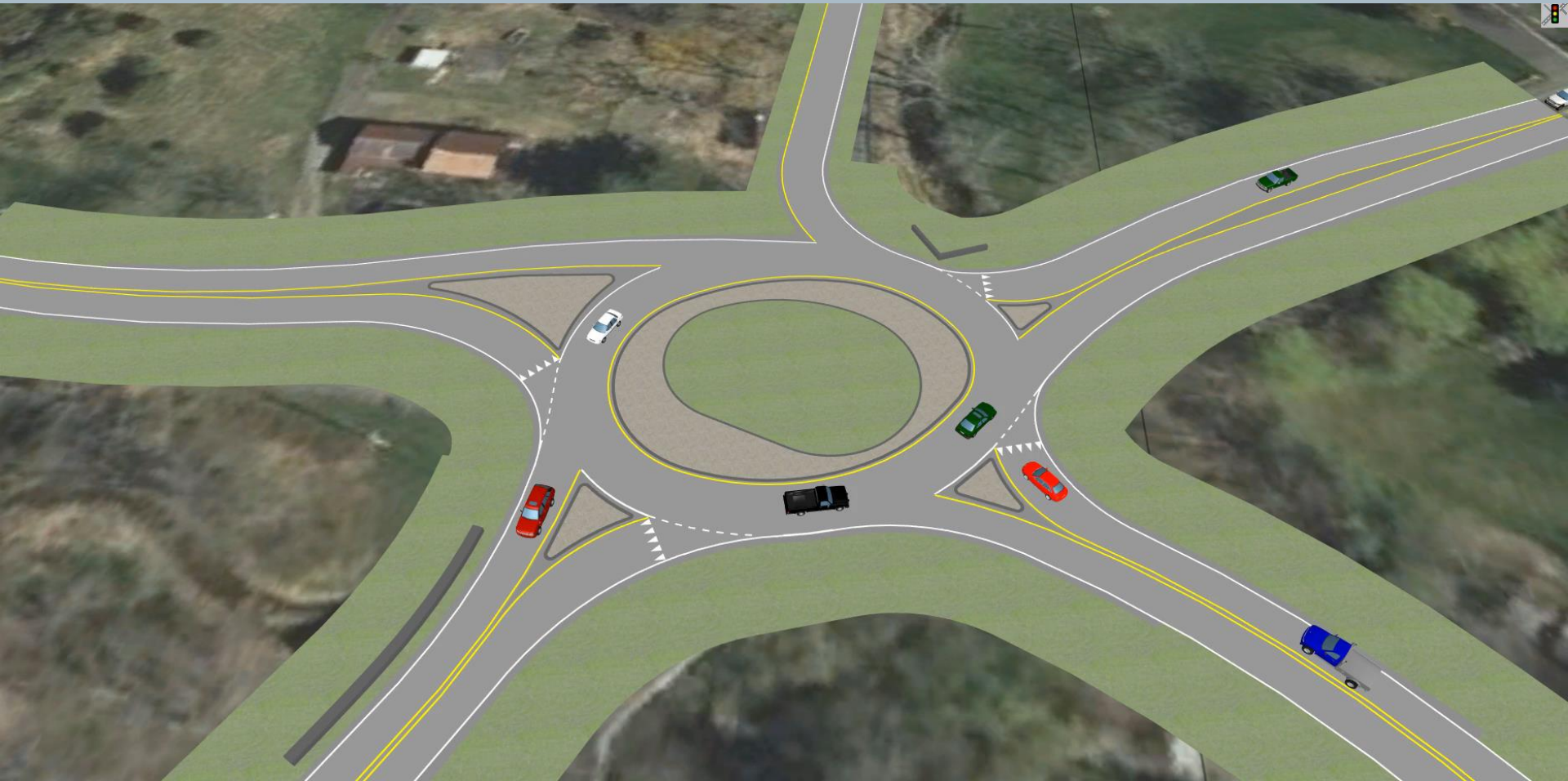
Existing Conditions:

- Rural Location
- Five-leg intersection
- Two-Way Stop Controlled
- Skewed Approaches
- Sag Vertical Curve
- Challenging Sight Distance
- Higher Speeds

Pilot Program Roundabouts: Hunterdon County - Readington



Pilot Program Roundabouts: Hunterdon County - Readington



Pilot Program Roundabouts: Monmouth County - Millstone

Existing Conditions:

- Rural Location
- Five-leg intersection
- 3 Legs Stop
Controlled
- CR 524 posted speed:
50 mph



Pilot Program Roundabouts: Monmouth County - Millstone



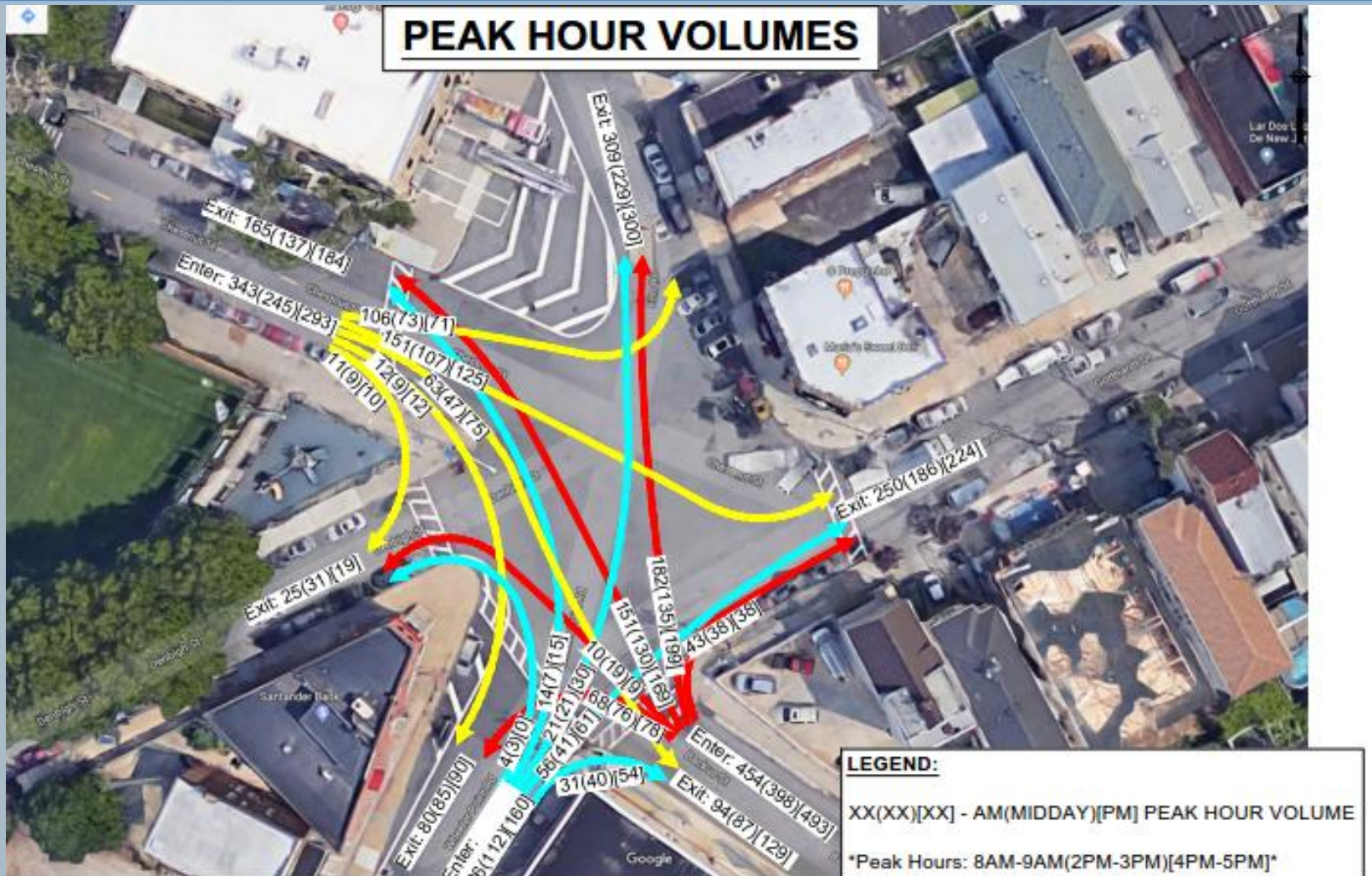
Pilot Program Roundabouts: City of Newark

Existing Conditions:

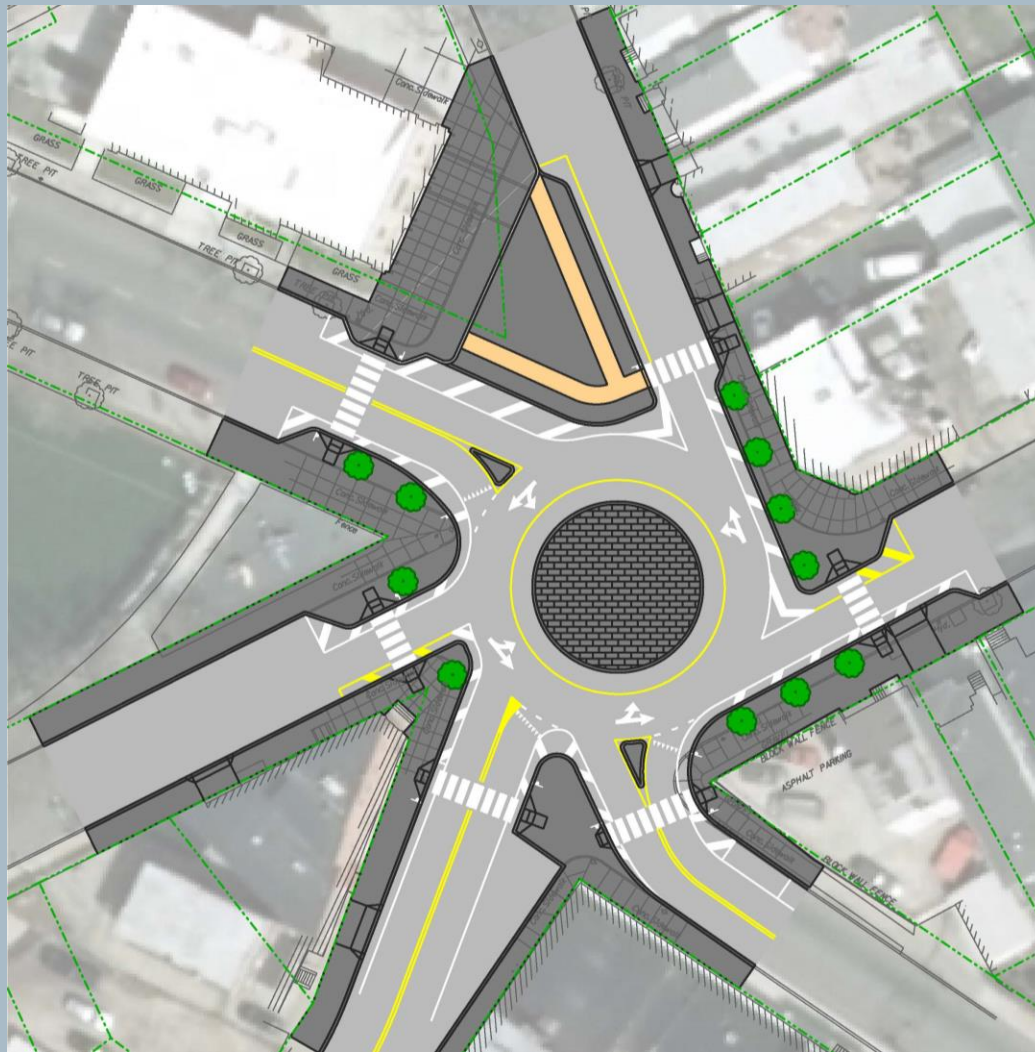
- Urban Location
- Six-leg intersection
- Fire House present
- Lack of defined lanes
- Difficult for pedestrians to navigate
- Head on parking in the intersection



Pilot Program Roundabouts: City of Newark



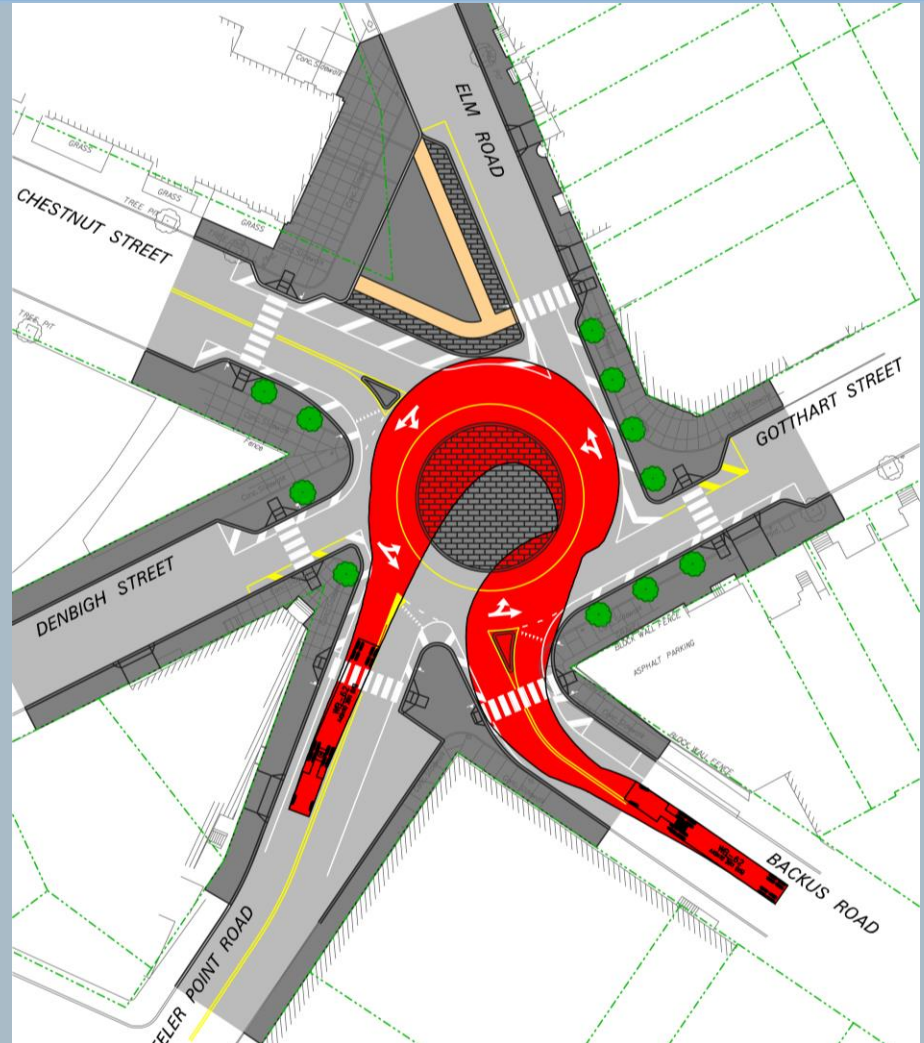
Pilot Program Roundabouts: City of Newark



Pilot Program Roundabouts: City of Newark

Truck
Turning
Movements

Truck WB-62



Public Outreach

- All Federally funded projects require public outreach
- Public Information Centers during the preliminary engineering phase



Thank you!

Defining the Vision. Shaping the Future.



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