

**PROJECT INFORMATION**  
**Modern Roundabout at the intersection of  
North Haledon Avenue and Manchester Avenue  
Borough of North Haledon, Passaic County**

---

Passaic County is receiving a federally funded grant for an intersection safety improvement project through the Local Safety Program. This program was established by the North Jersey Transportation Planning Authority (NJTPA), in conjunction with the New Jersey Department of Transportation (NJDOT), using Federal Highway Administration's Highway Safety Improvements Program funds, with a purpose of advancing safety improvements on county and local roads within its region.

**Background**

This lower traffic volume, skewed, four-leg, intersection is currently stop controlled in the slightly less volume, north/south direction (Manchester Avenue). Passaic County crash data demonstrated a number of right angle crashes due to higher speeds and N. Haledon Avenue driver's inability to recognize Manchester Avenue vehicles trying to cross or turn onto N. Haledon Avenue. The intent of this effort is to develop and prepare plans, specifications and cost estimates necessary to implement transportation solutions that address safety concerns. The proposed alternative being considered is a modern roundabout.

Modern Roundabouts are an identified Federal Highway Administration proven safety countermeasure and the preferred safety alternative for intersections. Roundabouts are designed to improve safety for all users, including pedestrians and bicyclists, and can substantially reduce the types of crashes that result in fatal and serious injuries (such as right angle crashes). Roundabouts are designed with:

- *Counterclockwise Flow:* Traffic travels counterclockwise around a center island
- *Entry Yield Control:* Vehicles entering the roundabout yield to traffic already circulating
- *Low Speed:* Curvature produces lower vehicle speeds, generally 15-25 MPH, throughout the roundabout

**Proposed Improvements**

- Modern Roundabout with a mountable central island and ADA compliant curb ramps
- New pavement, pavement markings, sidewalks, crosswalks and lighting

Right of way may be required in order to accommodate the geometry of the roundabout. The Uniform Act of 1970 ensures that due process and just compensation are met whenever property owners are affected by federally-funded projects.

Anticipated Year of Construction: Summer 2021

**For further information, please contact:**

**Chuck Silverstein, P.E.**

Passaic County Traffic Engineer

401 Grand Street

Paterson, NJ 07505

973-881-4453

973-742-3936 (fax)

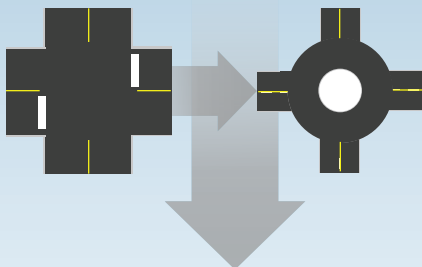
[charless@passaiccountynj.org](mailto:charless@passaiccountynj.org)





## Roundabouts

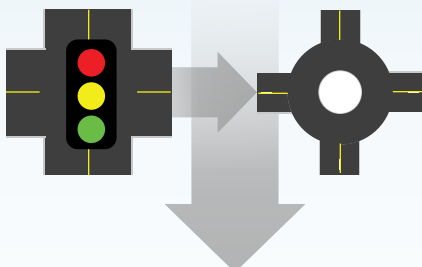
### TWO-WAY STOP-CONTROLLED INTERSECTION TO A ROUNDABOUT



**82%**

Reduction in severe crashes

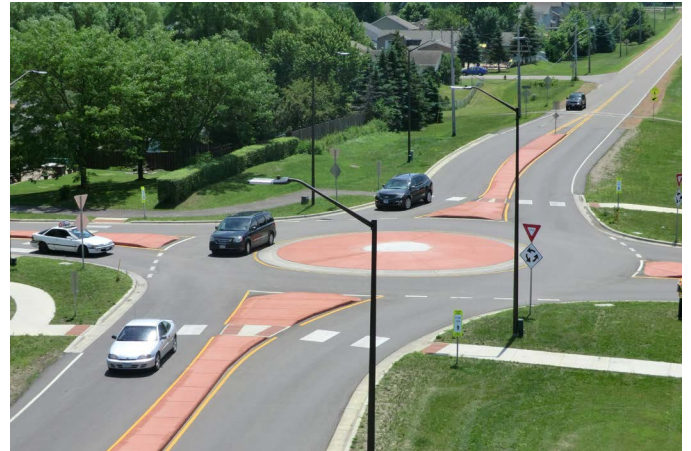
### SIGNALIZED INTERSECTION TO A ROUNDABOUT



**78%**

Reduction in severe crashes

The modern roundabout is a type of circular intersection configuration that safely and efficiently moves traffic through an intersection. Roundabouts feature channelized approaches and a center island that results in lower speeds and fewer conflict points. At roundabouts, entering traffic yields to vehicles already circulating, leading to improved operational performance.



Example of a single-lane roundabout.

Source: FHWA

Roundabouts provide substantial safety and operational benefits compared to other intersection types, most notably a reduction in severe crashes.

Roundabouts can be implemented in both urban and rural areas under a wide range of traffic conditions. They can replace signals, two-way stop controls, and all-way stop controls. Roundabouts are an effective option for managing speed and transitioning traffic from high-speed to low-speed environments, such as freeway interchange ramp terminals, and rural intersections along high-speed roads.



Example of a multi-lane roundabout.

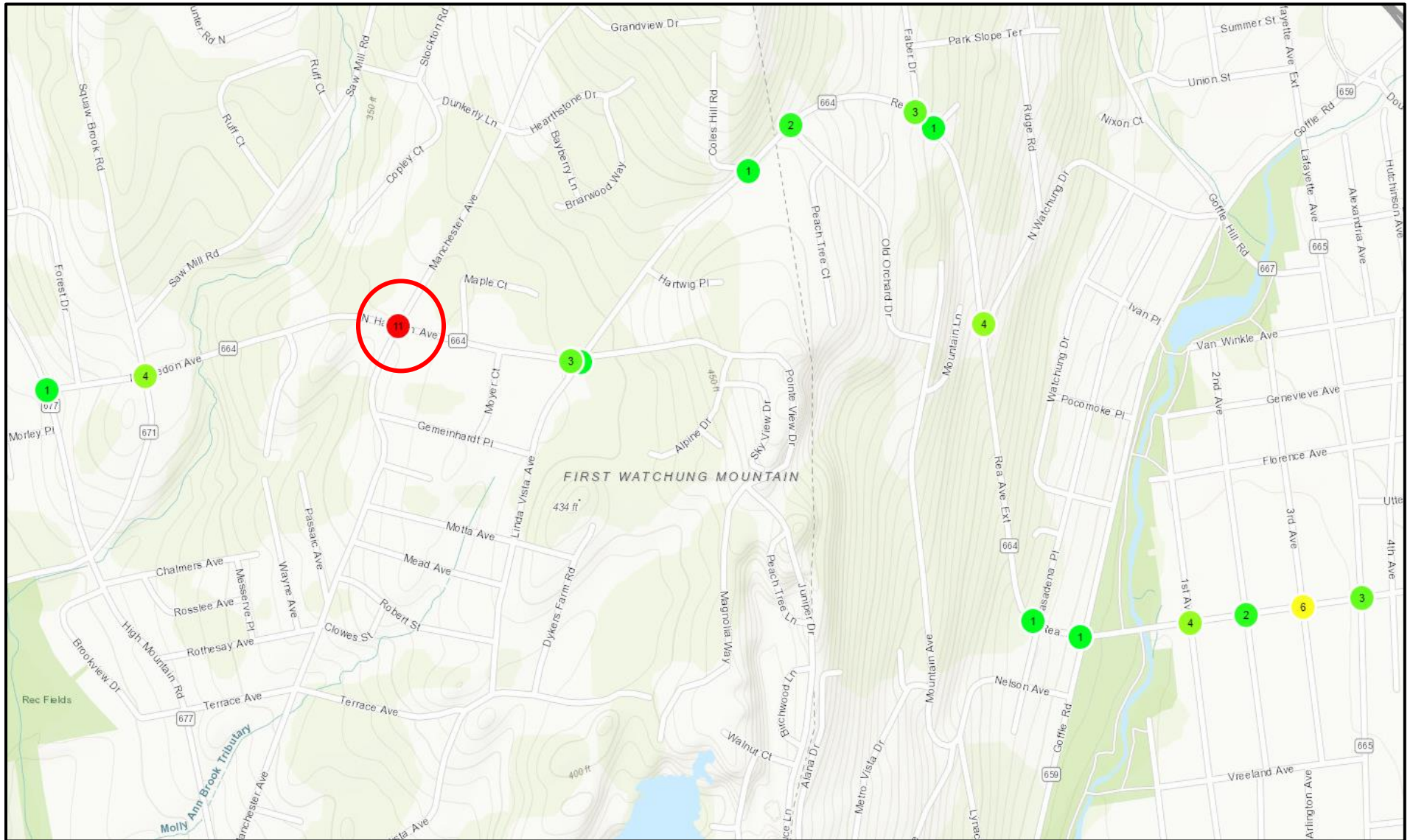
Source: FHWA

FHWA encourages agencies to consider roundabouts during new construction and reconstruction projects as well as for existing intersections that have been identified as needing safety or operational improvements.

Source: Highway Safety Manual

→ For more information on this and other FHWA Proven Safety Countermeasures, please visit <https://safety.fhwa.dot.gov/provencountermeasures>.

# Crashes along Passaic County 664 - North Haledon Avenue (2012-2015)



Year	Occurrence Date	Route	Cross Street Name	Crash Type	Severity	Severity Rating Code	Number of Vehicles Involved	Light Condition	Environmental Condition	Alcohol Involved	Cell Phone
2012	1/5/2012	PASSAIC COUNTY 664 I	MANCHESTER AVE	Right Angle	Injury	Complaint of Pain	2	Dark (street lights on)	Clear	No	Y
2012	5/31/2012	PASSAIC COUNTY 664 I	MANCHESTER AVE	Right Angle	Property Damage Only	Property Damage Only	2	Daylight	Clear	No	N
2012	8/8/2012	PASSAIC COUNTY 664 I	MANCHESTER AVE	Right Angle	Injury	Complaint of Pain	2	Daylight	Clear	No	N
2013	10/25/2013	PASSAIC COUNTY 664 I	MANCHESTER AVE	Right Angle	Property Damage Only	Property Damage Only	2	Daylight	Clear	No	N
2014	9/9/2014	PASSAIC COUNTY 664 I	MANCHESTER AVE	Right Angle	Injury	Moderate Injury	2	Daylight	Clear	No	N
2015	5/14/2015	PASSAIC COUNTY 664 I	MANCHESTER AVE	Right Angle	Property Damage Only	Property Damage Only	3	Daylight	Clear	No	N
2015	5/29/2015	PASSAIC COUNTY 664 I	MANCHESTER AVE	Right Angle	Injury	Complaint of Pain	2	Daylight	Clear	No	N
2015	7/2/2015	PASSAIC COUNTY 664 I	MANCHESTER AVE	Right Angle	Property Damage Only	Property Damage Only	2	Daylight	Clear	No	N
2015	8/28/2015	PASSAIC COUNTY 664 I	MANCHESTER AVE	Right Angle	Property Damage Only	Property Damage Only	2	Daylight	Clear	No	N
2015	10/31/2015	PASSAIC COUNTY 664 I	MANCHESTER AVE	Right Angle	Injury	Complaint of Pain	2	Daylight	Clear	No	N
2014	8/7/2014	PASSAIC COUNTY 664 I	MANCHESTER AVE	Right Angle	Injury	Moderate Injury	4	Daylight	Clear	No	N
2014	3/15/2014	PASSAIC COUNTY 664 I	MANCHESTER AVE	Same Direction - Sideswipe	Property Damage Only	Property Damage Only	2	Daylight	Clear	No	N
2015	8/26/2015	PASSAIC COUNTY 664 I	MANCHESTER AVE	Fixed Object	Injury	Complaint of Pain	1	Dark (street lights on)	Clear	No	N