At the interchange of I-590 and Winton Road, morning rush-hour traffic is heavy exiting the expressway, causing traffic to back up from the off ramp. Winton Road northbound also experiences high volumes, causing backups into adjacent intersections and onto the bridge over the Erie Canal—resulting in a fair number of collisions. To address this problem, the New York State Department of Transportation is building a Diverging Diamond Interchange, a new and different kind of traffic pattern that’s been shown to improve safety for drivers, bicyclists, and pedestrians. Diverging Diamonds also help create a smoother traffic flow with fewer backups and delays.

On The Leading Edge

The Diverging Diamond Interchange was listed by Popular Science Magazine as one of the best innovations in 2009 in “Best of What’s New, 2009.” There are just a handful of Diverging Diamonds across the U.S., in states such as Utah, Kentucky, Missouri, and Tennessee—all operating successfully. The Diverging Diamond Interchange located at I-590 and Winton Road will be the first of its kind in New York State.

Why The Diamond Sparkles

- Improved traffic flow for motorists exiting the I-590 expressway, in both directions, at Winton Road. The I-590 southbound exit movement will be improved in the morning rush hour. No more stopped traffic on I-590 waiting to exit.
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- Improved traffic flow at French Road intersection. With a dedicated right-turn lane, motorists traveling north on Winton Road will not have to contend with those destined for I-590 as they do now.
- Improved traffic flow for motorists leaving the Jewish Home driveway and Meridian Centre, because traffic will be flowing more smoothly through the Diverging Diamond Interchange.
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- Best of all, this design provides the most safety benefits for cars, bicyclists, and walkers.

Contact Information

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1530 Jefferson Road, Rochester, NY 14623

Highway Design Related Questions:
Eric Thompson, Project Design Engineer
(585) 272-3491

Highway Construction Related Questions:
Doug Koenig, Project Engineer-in-Charge
(585) 272-7670
590winton@dot.state.ny.us
www.dot.ny.gov/590winton

Projected Construction Schedule:
April through July 2012:
- Complete telephone relocation work.
- Complete work on the east side of Winton Road first, then the west side.
- Install new highway drainage; widen roadway as necessary; and install new curbs, sidewalks, and traffic signals.
- Reconstruct portions of I-590 exit and entrance ramps at Winton Road.
- On Winton Road, between I-590 and Westfall Road, traffic will be reduced to a single northbound travel lane and a single southbound travel lane.

August 2012:
- Make change to new Diverging Diamond Interchange traffic pattern (during a weekend closure).

September through November 2012:
- Complete paving (another weekend closure), landscape items, and remaining project work.
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### How to Drive: (Refer to drawings)

- **Southbound on I-590 exiting at Winton Road (Exit #1)**
  - The ramp operates just as it does today.
    - To turn left onto Winton Road heading toward Henrietta, stay to the left of the ramp (dual left lanes)
    - To turn right onto Winton Road heading toward Twelve Corners in Brighton, stay to the right of the ramp
- **Northbound on I-590 exiting at Winton Road (Exit #1)**
  - The ramp operates just as it does today.
    - To turn left onto Winton Road heading toward Twelve Corners in Brighton, stay to the left of the ramp
    - To turn right onto Winton Road heading toward Henrietta, stay to the right of the ramp (dual right lanes)

- **Southbound on Winton Road (toward Twelve Corners in Brighton)**
  - To turn right onto French Road
    - Stay to the right, just as you do now, and get into the right-turn lane
  - To access the Jewish Home campus
    - Get into the left-turn lane at the traffic light
  - To go north on I-590 toward Webster
    - Stay to the right, just as you do now, and move into the newly extended I-590 northbound turn lane
  - To go south on I-590 toward I-390
    - Stay to the left, just as you do now, and proceed through the crossover to the ramp on the left
  - To proceed north to the Twelve Corners
    - In either lane, proceed through both crossovers

- **Northbound on Winton Road (toward Twelve Corners in Brighton)**
  - To turn right onto French Road
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  - To access the Jewish Home campus
    - Stay to the left, just as you do now, proceed through the crossover and turn right into driveway
  - To proceed south to Henrietta
    - Proceed through both crossovers

### How to Walk or Bike It: (Refer to drawings)

- **Pedestrians:**
  - Use the improved sidewalk system along the edges of Winton Road
  - Make use of the crosswalks and curbed refuge islands
  - To cross Winton Road, use the designated crosswalks at the intersections of Cambridge Place or French Road
  - Share the multi-use sidewalks with bicyclists

- **Bicyclists:**
  - Use the bike and shoulder space to the right of the travel lanes through the interchange
    - If you’re not comfortable riding along the white line, you can utilize the multi-use sidewalk and share the space with pedestrians

### Safety Design Features:

- **Numerous physical barriers and visual cues are incorporated into the design to help gently guide motorists along the travel path.**

- **Signs:**
  - Overhead signs will help motorists get in the proper lane to reach their destinations. Several other ground-mounted, standard road signs will be posted. Note the position and angles of the signs.

- **Pavement Markings:**
  - Standard, familiar white and yellow lines and symbols will be placed on the pavement to guide motorists.

- **Traffic Separators:**
  - A combination of raised islands and a concrete barrier with a glare screen will also be used to guide motorists. The glare screen will prevent distractions from motorists on the other side of the road and also reduce glare from headlights.
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