



# Oregon 213: Roundabout at Toliver Road

December 2022



# Oregon 213: Roundabout at Toliver Road

ODOT, in partnership with the City of Molalla, is improving safety at the intersection of OR 213 and Toliver Road in Molalla by constructing a roundabout.

Construction is scheduled for summer 2023.

Currently the intersection is:

- Stop sign controlled on Toliver Road.
- Within the top 10% of all highway segments in the state for crashes.
  - 38 crashes with 83% resulting in injury between 2007 and the end of 2016.

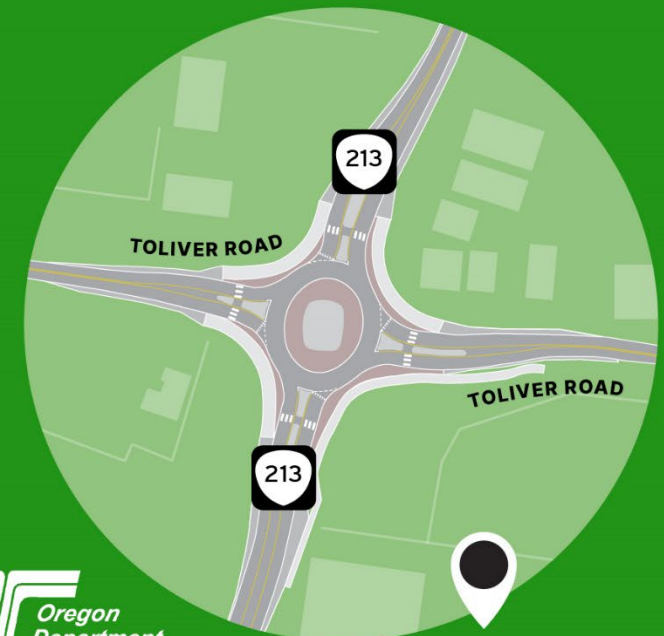


# Why a roundabout?

- Two studies with local agencies and engineers determined a roundabout will bring the greatest safety benefits.
  - Road Safety Audit (2018)
  - Intersection Control Evaluation Report (2019)
- Locations with roundabouts can see:
  - 90 percent reduction in fatalities.
  - 76 percent reduction in injuries.
  - 35 percent reduction in all crashes.

# Serious about safety?

**Go with the flow.**

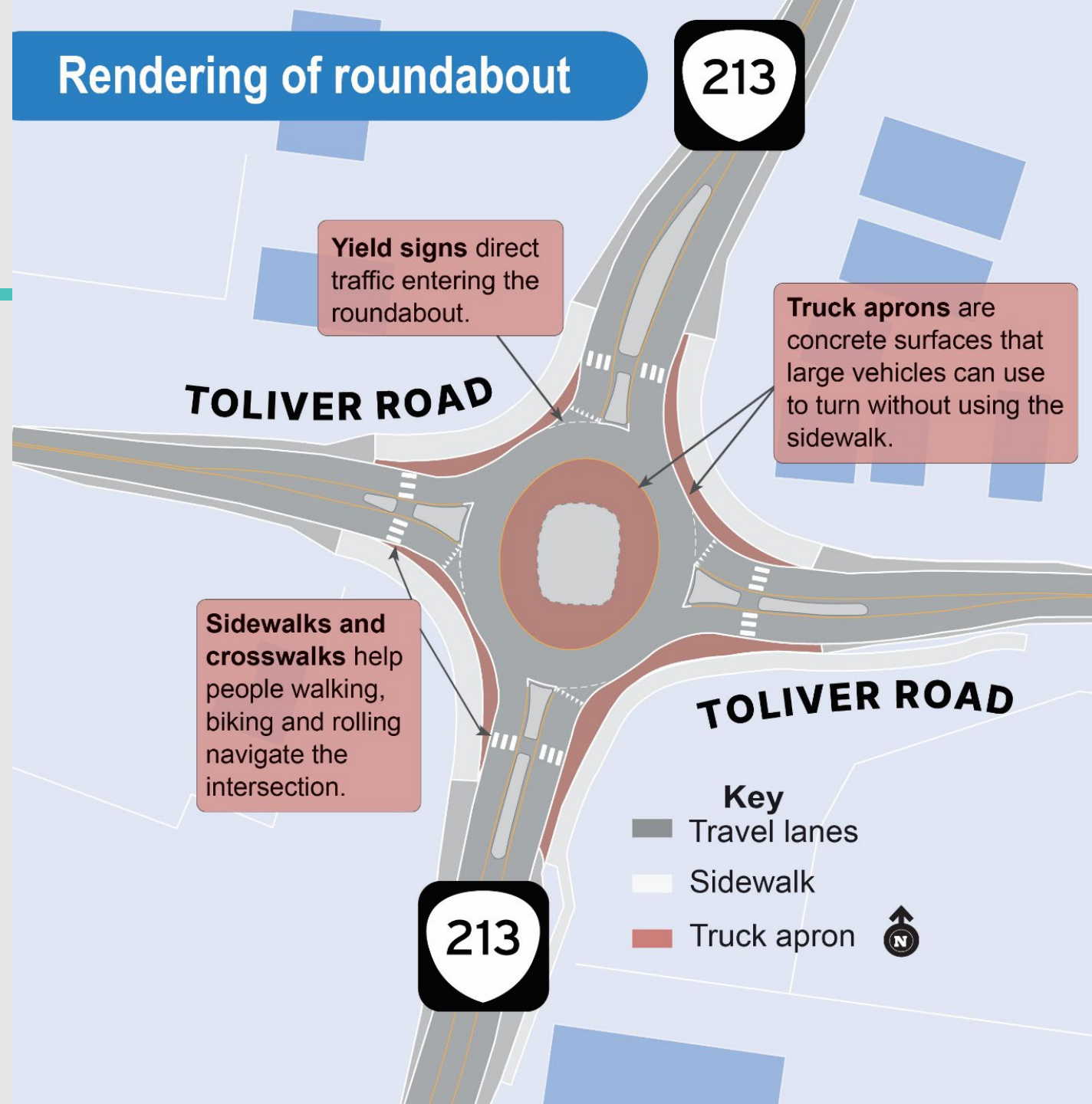




# Why a roundabout?

## Roundabouts:

- Improve safety.
- Facilitate all directions of traffic.
- Slow down drivers by its circular design.
- Reduce conflict points for vehicles.



# Can trucks/buses/farm equipment use a roundabout?

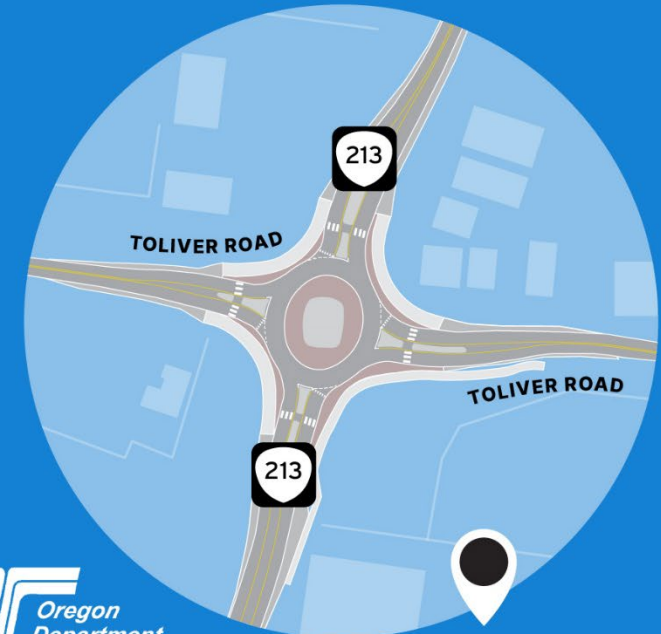
The roundabout is being designed to accommodate the types of vehicles that currently use this intersection, including school buses, farm equipment and trucks.

We looked at a 5-year history of large vehicle use:

- The widest vehicle was a truck carrying a 16 foot-wide fiberglass swimming pool.
- The longest vehicle was 147-feet long: a truck pulling a long utility pole.

# Pulling heavy equipment?

**Go with the flow.**



# We evaluated two methods for constructing the roundabout.

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## Option A: Six month construction season


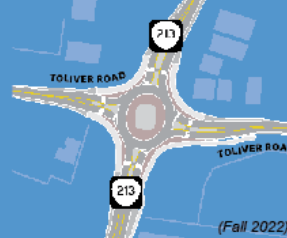
- OR 213 fully closed for up to three weekends.
- Each leg of Toliver Road fully closed at OR 213 for up to six weeks.
- Lane closures with flaggers directing traffic on OR 213 and Toliver Road for up to six months.

## Option B: Two month construction timeline using an intersection closure

- The intersection of OR 213 and Toliver Road fully closed for eight weeks in summer 2023.
- Minimal lane closures on OR 213 and Toliver Road before and after the intersection closure.

# We selected Option B: An eight week-intersection closure:

- Condenses the construction timeline from six months to two months.
- Increases safety for travelers and workers.
- Reduces project costs for traffic control.
- Produces a higher quality roadway with minimal fewer paving joints, which means fewer potholes and longer lasting pavement.

**Oregon Department of Transportation**  

## Oregon 213: Roundabout at Toliver Road

ODOT, in partnership with the City of Molalla, is improving safety at the intersection of OR 213 and Toliver Road in Molalla by constructing a roundabout.

(Fall 2022)

Constructing the roundabout requires widening the intersection at Toliver Road and replacing an existing culvert carrying Bear Creek under Oregon 213. Work in the creek must be done during low-water levels and at a time when fish are unlikely to be present. This section of the creek is often dry through the summer.

**We evaluated two methods for roundabout construction:**


**A Option A: Six month construction season** (marked with a red X)

- OR 213 fully closed for up to three weekends.
- Each leg of Toliver Road fully closed at OR 213 for up to six weeks.
- Lane closures with flaggers directing traffic on OR 213 and Toliver Road for up to six months.

**We selected option B** (marked with a green checkmark)

**B Option B: Two month construction timeline using an intersection closure**


- The intersection of OR 213 and Toliver Road fully closed for eight weeks in summer 2023.
- Minimal lane closures on OR 213 and Toliver Road before and after the intersection closure.

**Work Zone Safety** 

Construction and active traffic will be separated for the majority of work with an intersection closure.

4 out of 5 work zone crash victims are drivers and their passengers.

Full closures improve safety by 93% by reducing contractor exposure to live traffic during set up and take down of the work zone.


**Efficient use of time** 

**180 nights** of nighttime lane closures on OR 213.


**56 days** For a full intersection closure which is 3x more efficient

**Construction timeline**

two months (highlighted in green)  
six months (highlighted in red)

**Higher quality paving** 

Building and paving the whole intersection at once results in a higher quality roadway with fewer paving joints, which means fewer potholes and longer lasting pavement.

**Cost savings** 

**Up to \$400,000** in cost savings with an eight-week closure of the intersection due to reduced traffic control needs.

[www.ToliverRoundabout.org](http://www.ToliverRoundabout.org)

For ADA (Americans with Disabilities Act) or Civil Rights Title VI accommodations, translation/interpretation services, or more information call 503-731-4128, TTY 800-735-2900 or Oregon Relay Service 7-1-1.

# The intersection closure for 8 weeks summer 2023.

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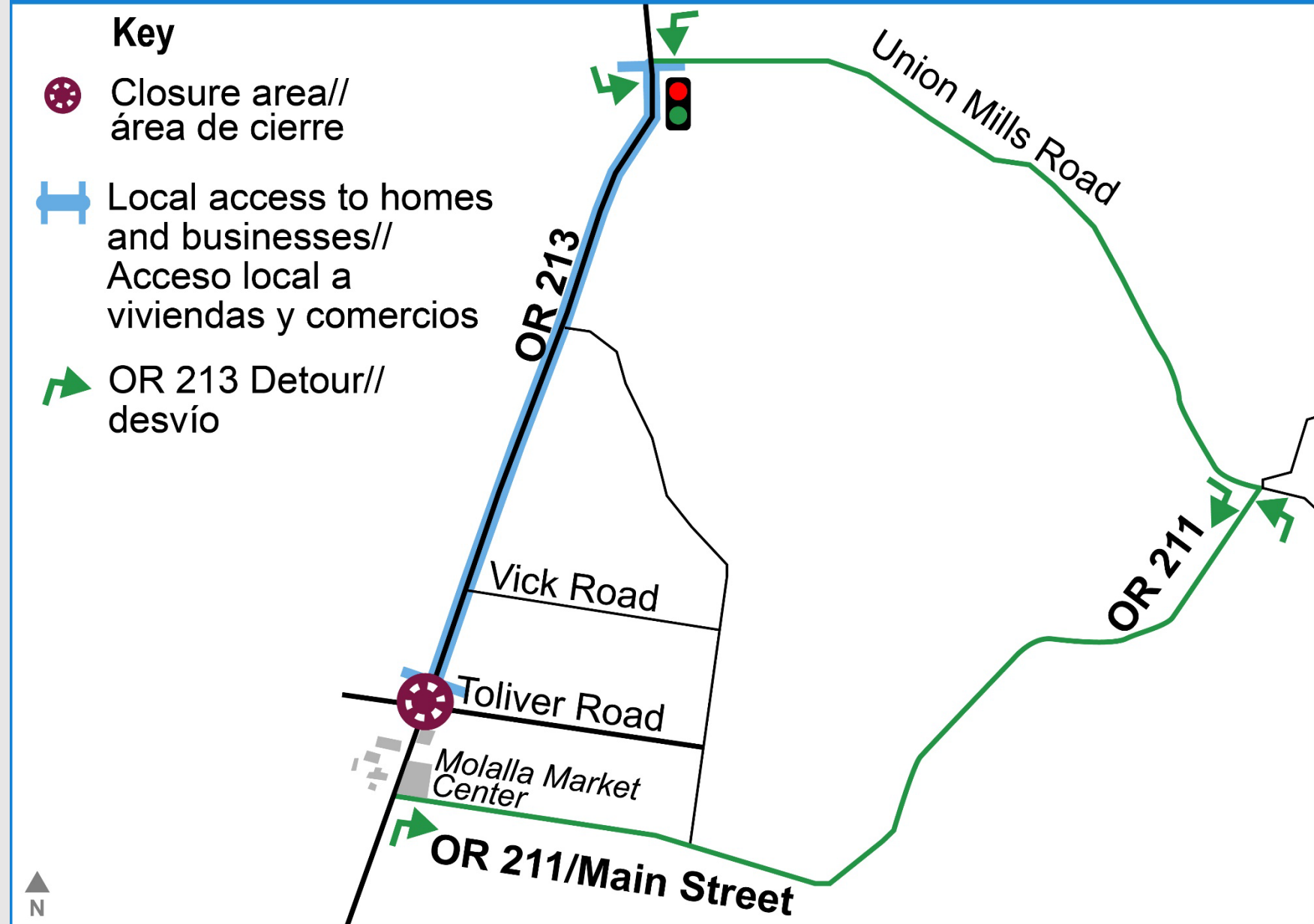
- Closure starts as soon as July 6, 2023 (after the Molalla Buckaroo Rodeo).
- All motor vehicles will need to use the signed detour routes or other alternate routes.
- We do not plan to use flaggers to direct traffic along detour routes during roundabout construction.



# Detour routes

## OR 213 closure at Toliver Road




### Detour for OR 213 traffic

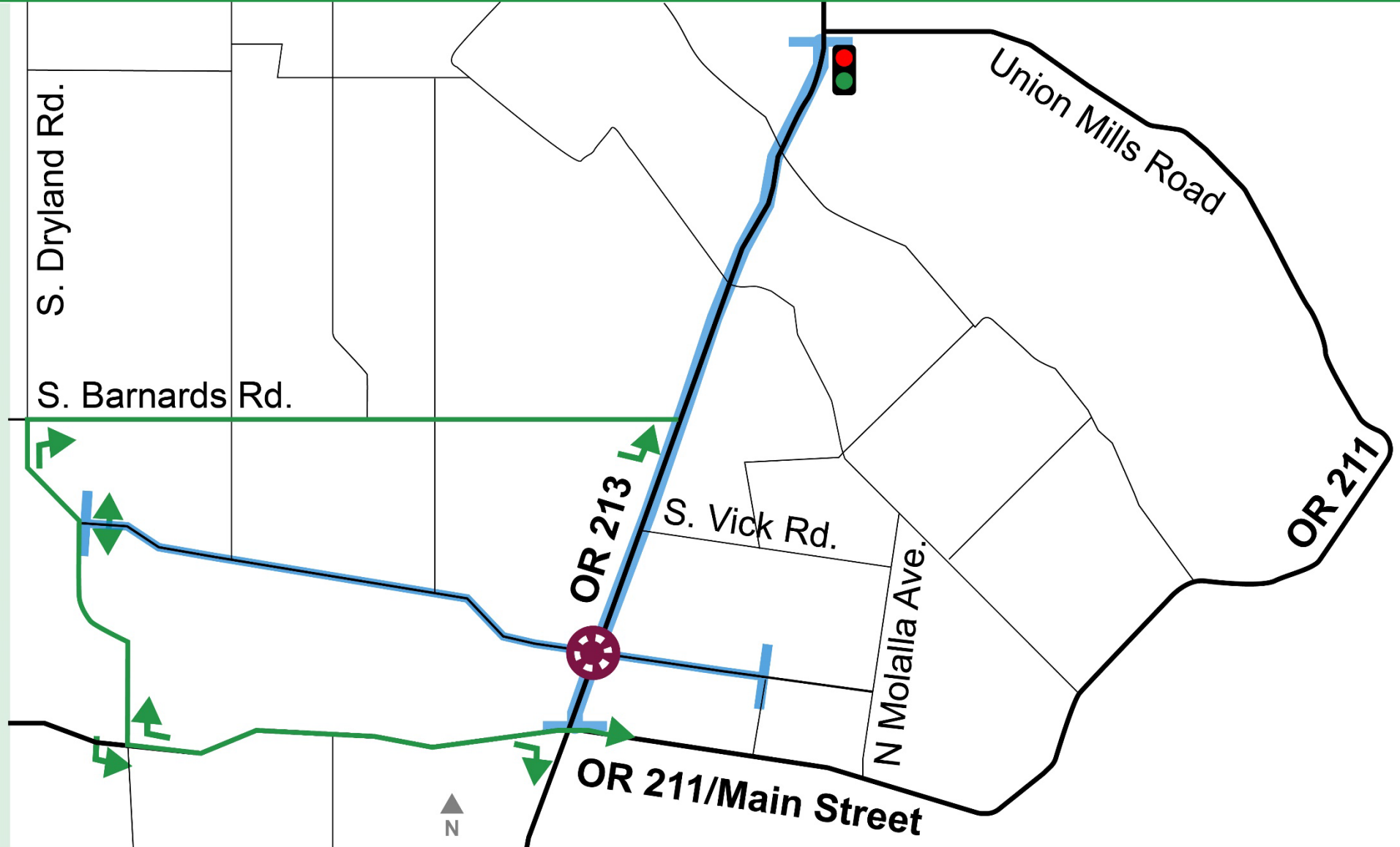


# OR 213 closure at Toliver Road

## Toliver Road eastbound to OR 213 detour

## Key




-  Closure area//  
área de cierre
-  Local access to homes  
and businesses//  
Acceso local a  
viviendas y comercios
-  OR 213 Detour//  
desvío



# OR 213 closure at Toliver Road

## Toliver Road westbound to OR 213 detour

### Key

-  Closure area//  
área de cierre
-  Local access to homes  
and businesses//  
Acceso local a  
viviendas y comercios
-  OR 213 Detour//  
desvío





# Additional construction impacts

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- Utility relocation in spring 2023 with lane closures.
- Summer 2023: minimal lane closures for roundabout construction before/after the intersection closure.
- A 24/7 nighttime noise hotline will be available during construction for noise concerns.

# Outreach

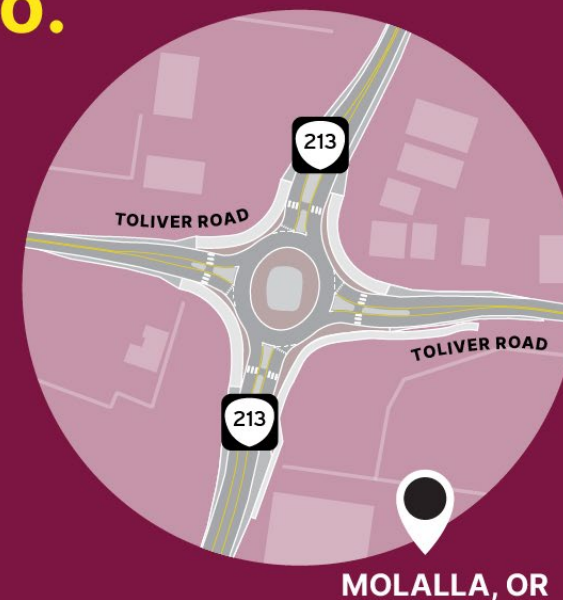
- Project website: [ToliverRoundabout.org](https://ToliverRoundabout.org)
- Sign up for email updates.
- Self-paced online open house available now.
- Fall 2022 and pre-construction mailing.
- Continued roundabout safety and education information.
- [TripCheck.com](https://TripCheck.com) for traffic impacts.



# Go with the flow.

## Yield and go.

Get where you're going smoothly—and safely. Roundabouts reduce the risk of crashes without blocking the natural movement of traffic.



CONSTRUCTION BEGINS IN 2023.  
LEARN MORE AT  
[TOLIVERROUNDABOUT.ORG](https://TOLIVERROUNDABOUT.ORG)







# Thank You!

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