

July 16, 2019

City Council Workshop

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# City of Northfield TH246 & Jefferson Parkway Roundabout Project

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# History & Schedule

## **2016:**

Approved Intersection Control Evaluation & Traffic Impact Analysis  
City Council adopted roundabout as preferred option.

## **2017/2018:**

Acquired funding from:

MnDOT's Local Partnership Program (\$483,480)

MnDOT's Local Road Improvement Program (\$900,000)

## **2019:**

Adopted Mill Town Regional Trail Route  
Feasibility Study / Design

## **2020:**

Construction



# TH 246 at Jefferson Parkway

- From Intersection Study
  - ❖ Current All-way stop
    - Traffic operation will continue to worsen
    - Level of Service (LOS)
      - A = free flow conditions
      - F = stopped, congested flow
    - Currently LOS D and delay of 28 sec/veh
    - Projected LOS F and delays continue to increase
    - Driver confusion with multiple lanes and traffic legs

# TH 246 at Jefferson Parkway

- From Intersection Study

## ❖ Roundabout

- Best for traffic flow (operates at higher level of service than a stop sign or signal)
- LOS B in 2040 with delay of 10 sec/veh
- Fewer vehicle crashes and less severe
- Single lane have been found safe for pedestrians and bicyclists
- Reduces confusion that exists at the all-way stop
- Reduces speeds – Increased Safety

# Roundabout Safety

## ❖ Pedestrian / Bike

No serious injury or fatalities at any roundabout in Minnesota in the last 10 years.

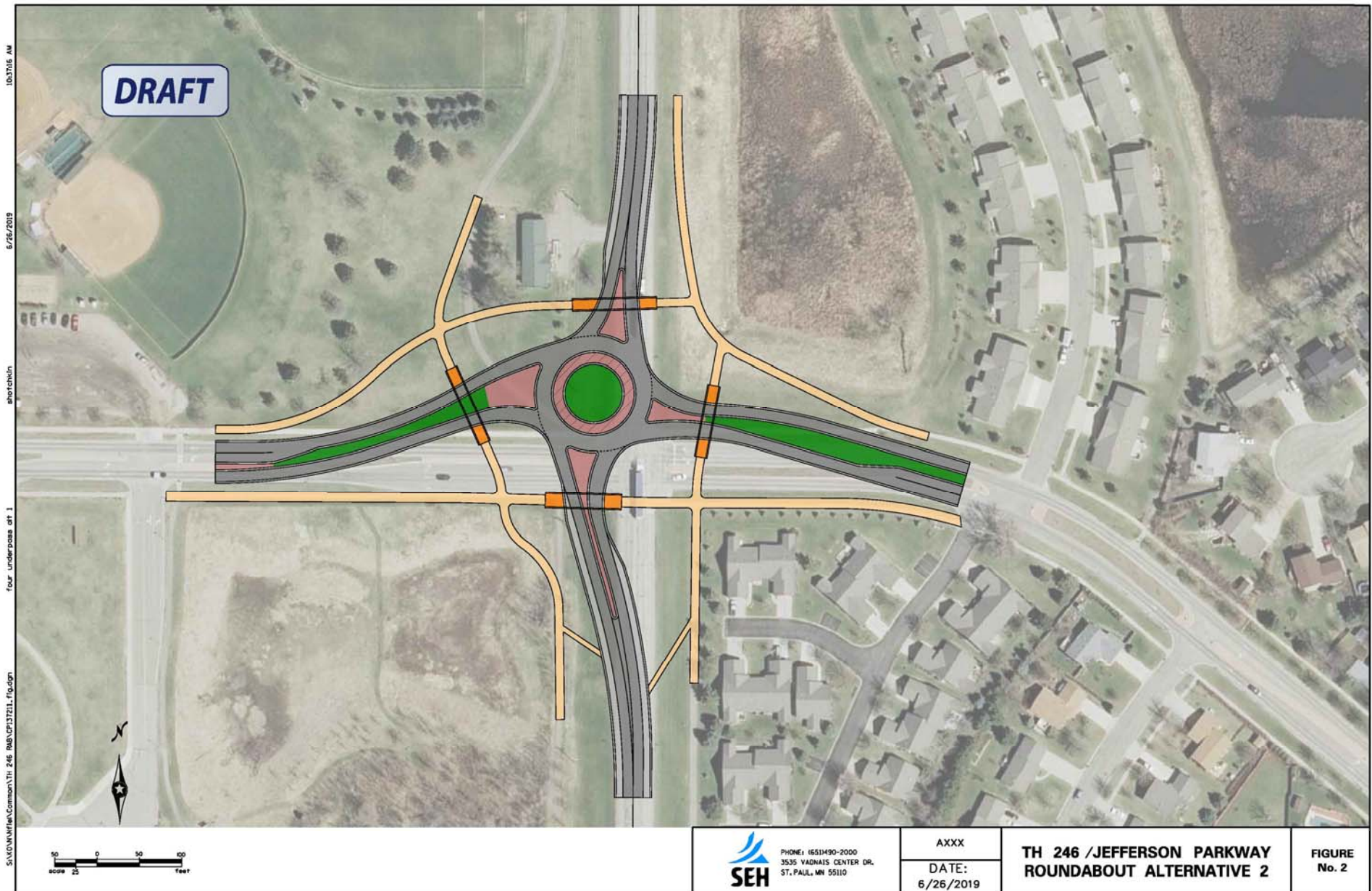
## ❖ Vehicles

In comparison to a traffic signal:

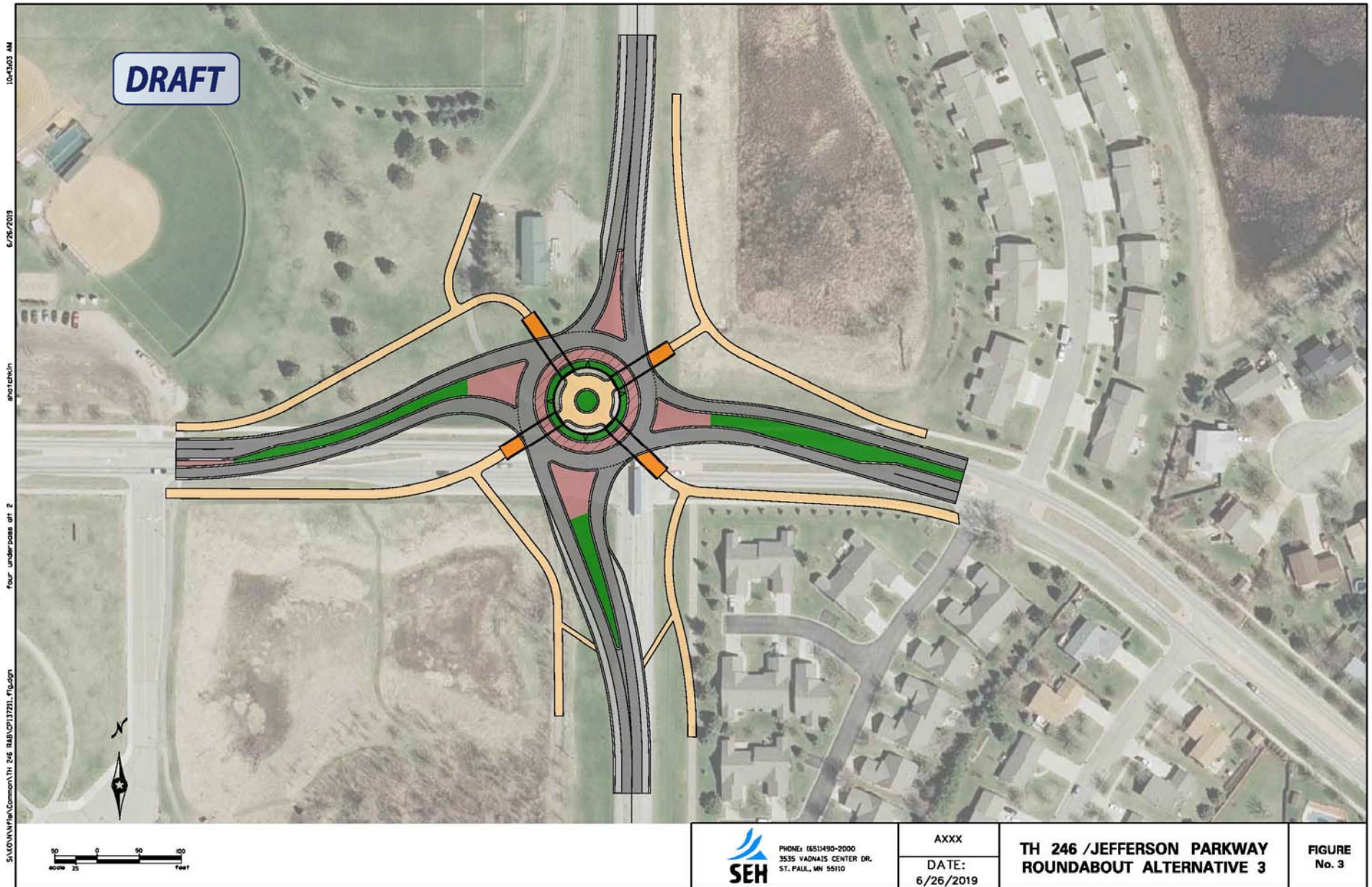
- 78% reduction in severe crashes; and
- 48% reduction in overall crashes.



# Alternative 2



# Alternative 3



# Costs

## ALTERNATIVE

1

2

3

## PROJECT COST

\$ 2,970,000

\$ 3,325,000

\$ 3,368,000

## PROJECT FUNDING

MnDOT's Local Partnership Program

\$483,480

MnDOT's Local Road Improvement Program

\$900,000

City Municipal State-Aid

\$500,000

Total Funding

\$1,883,480

# Schedule

- August 21: Open House/Public Input
- September 3: City Council Approves preferred alternative
- September: MnDOT Level 1 Design Approval
- November / December: Final Design
- January / February: Bidding
- May / June: Construction start

# Questions / Comments

Thank you

