





#### Howard Corners Intersection Scoping Study

Alternatives Presentation Meeting

June 27, 2017

## Introductions

Consultant Team:								
Corey Mack, PE	Ro	Roxanne Meuse, EIT						
Consultant Project Manager	r Consultar	Consultant Planner and Designer						
Public Works Team:								
David Allerton, PE	Susan Molzan	Phillip Peterson						
Steering Committee:								
Scott Mapes		RJ Lalumiere						

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 Scott Mapes
 RJ Lalumiere

 Resident
 Walk-Bike Council

 Nicole Losch
 Kara Yelinek

 DPW Ped. and Bike Program Manager
 VTrans Supervisor



## Why We're Here

Burlington was awarded a grant to study the intersection and evaluate alternative designs that can be implemented to **improve safety**, **meet accessibility standards**, and **foster an emerging neighborhood**.

An Intersection Scoping Study includes:

- Existing Conditions Review
- Local Concerns Meeting (November 11, 2016)
- Alternatives Development and Analysis
- Alternatives Presentation Meeting (Today)
- Final Scoping Report
- Final Presentation



## **Tonight's Discussion**

- **1. Introductions and Background** 10 minutes
- 2. Alternatives 20 minutes
- 3. Table Breakout Until they turn the music up... (~60 minutes)
- 4. Wrap Up



## **Questions For You**

Alternatives Presentation Meeting Feedback

6/27/17

Winooski Avenue – Howard Street – St. Paul Street Intersection Scoping Study

Email Address If you would like to receive updates; Wilk Bike with Pegmail con

Al-Demonstration Project: Let's do it - I can help!
LEF'S ac in I and a i
The second se
A2 - Upgraded Signals and Pedestrian Crossings: Tid love to see this
L'a long
happen ;
A3 – Upgraded Signals, Realigned South Winposki:
I love Potvin park! Port
torch it!
A4 – Dual Roundabout, Realigned South Winooski:
I feel this sourifies people
Space for car space
A5 - Modern Roundabout:
Don't we dore towen
Aline hechend Market
Don't you dare touch Neighborhood Market!
Neighborhood Market!

Instructions with stickers: Place your green star on your preferred ultimate treatment (A2, A3, A4, A5, or Do Nothing). Place your remaining stars on your priority issues (what you would most like to see addressed).

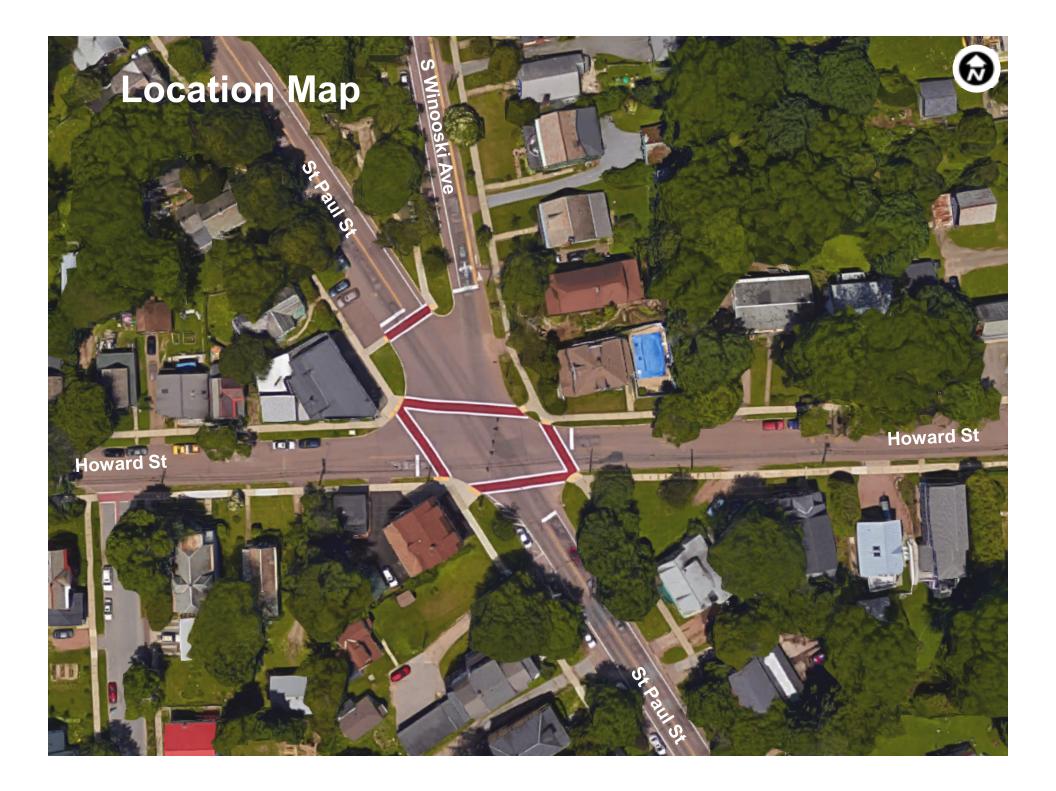
Thank you!

Please fill out comment form – let us know what you think!

Stars:

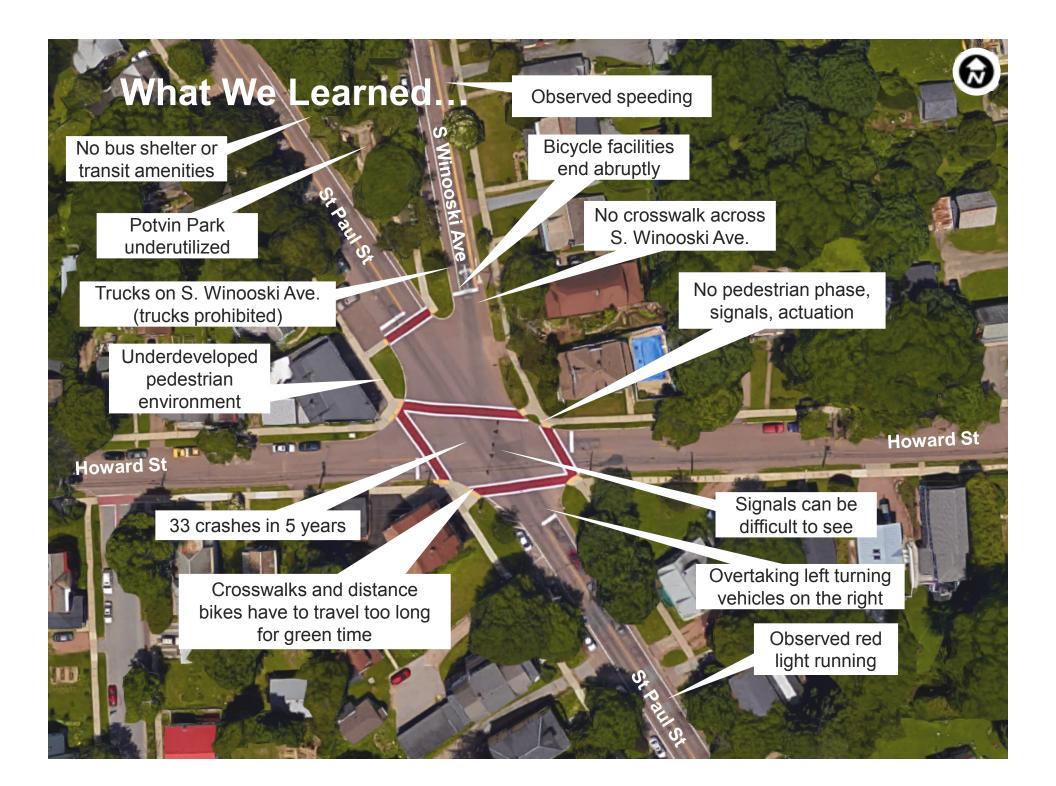
- 1. Use the GREEN star on your preference for your preferred ultimate intersection design
- 2. Use the remaining stars to vote on your priority issues











## **Alternatives**

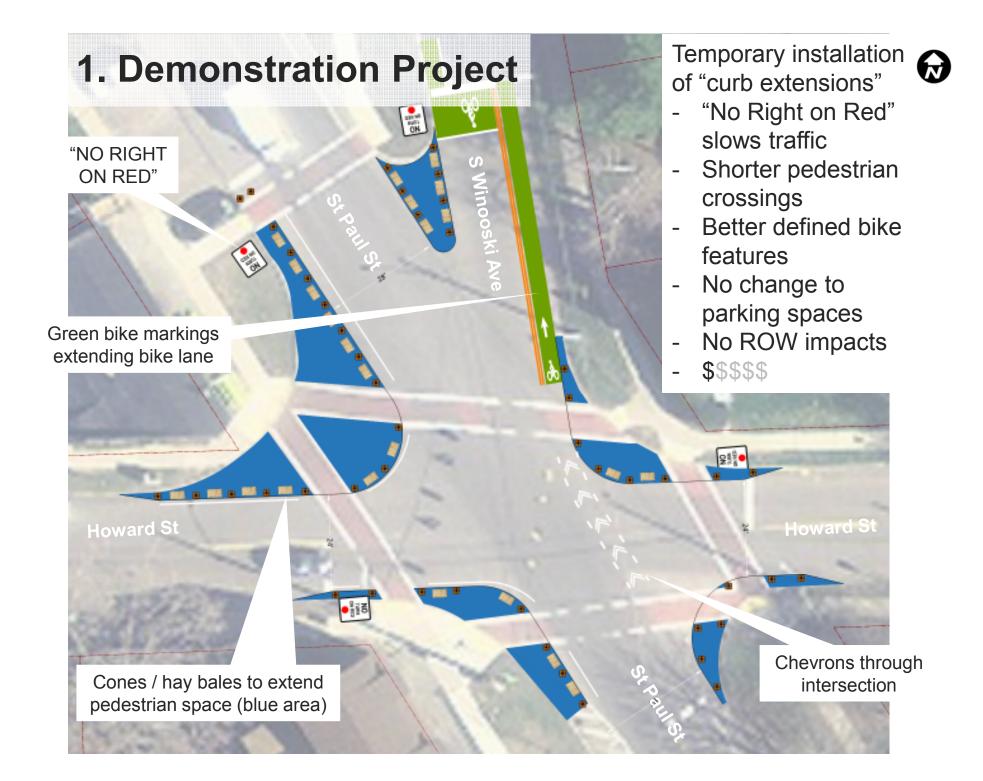
- 0. No Build
- 1. Demonstration Project
- 2. New Signal System Existing Geometry
- 3. New Signal System Realigned Roadway
- 4. Dual Roundabout Realigned Roadway
- 5. Modern Roundabout

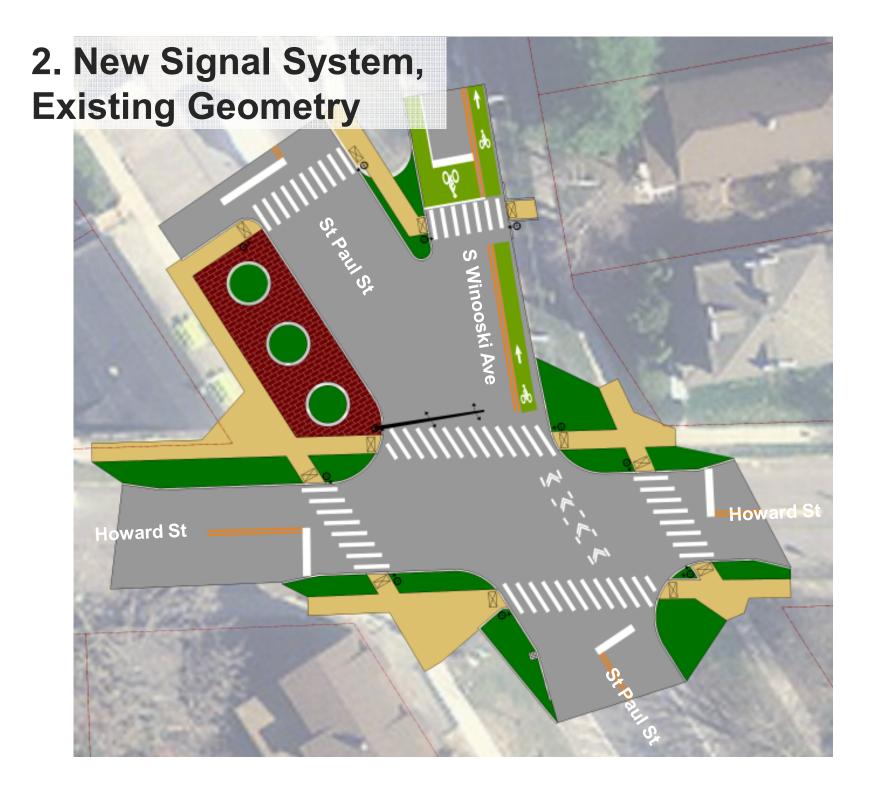




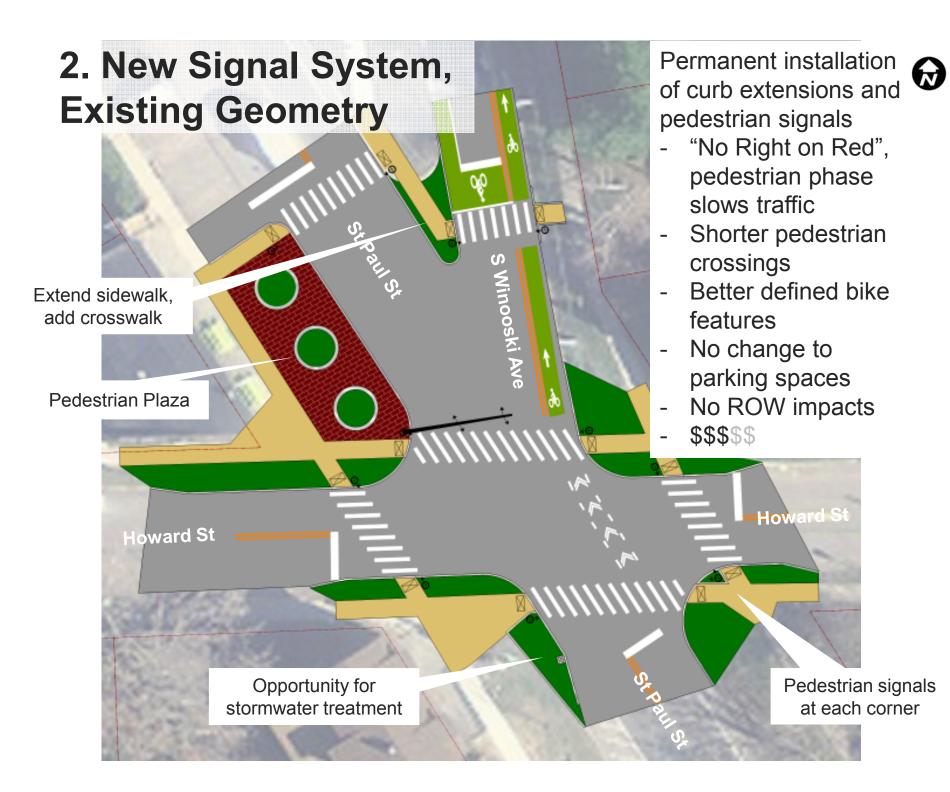


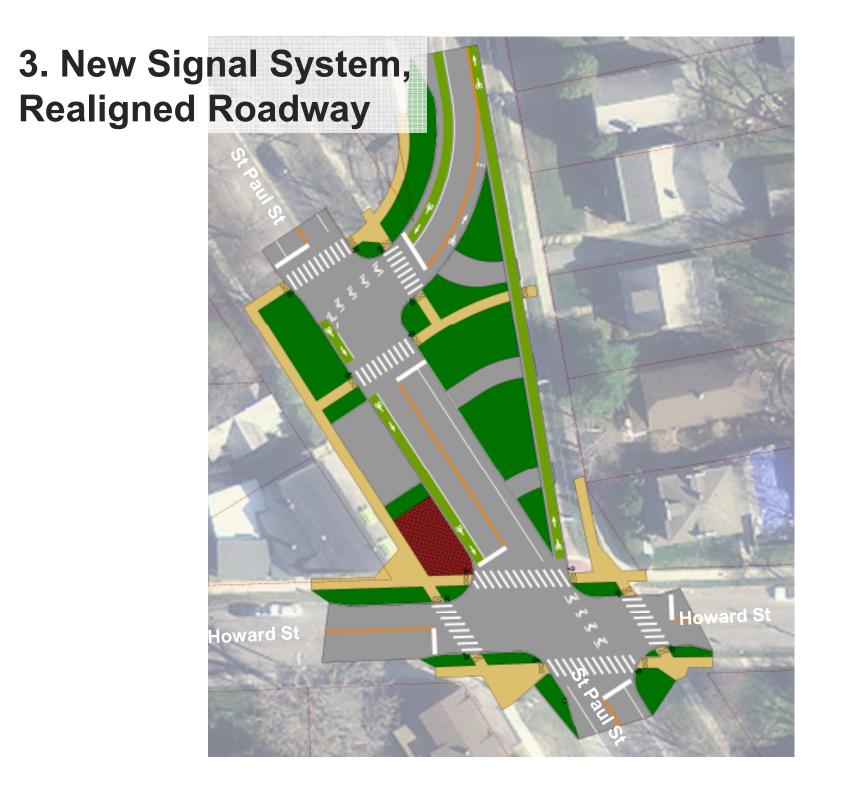




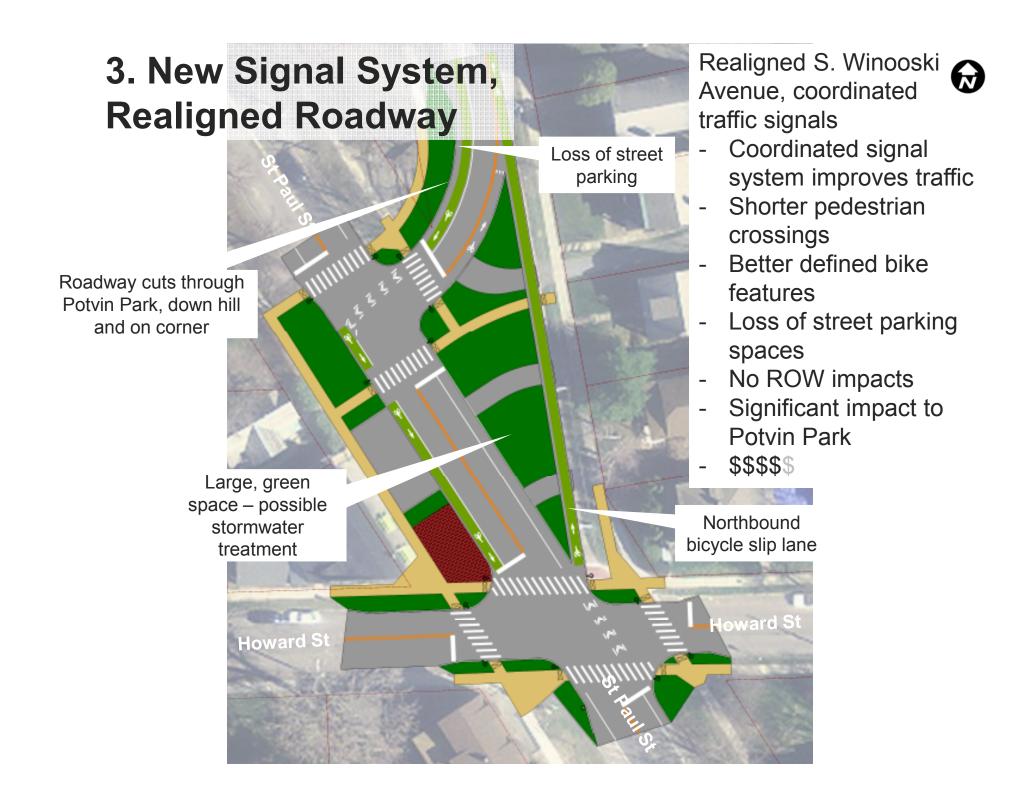


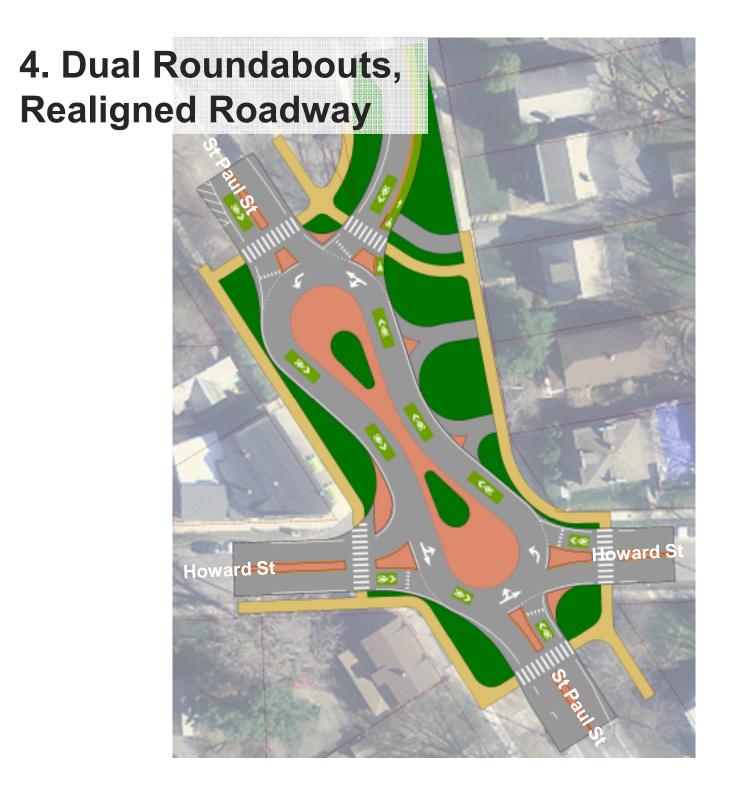
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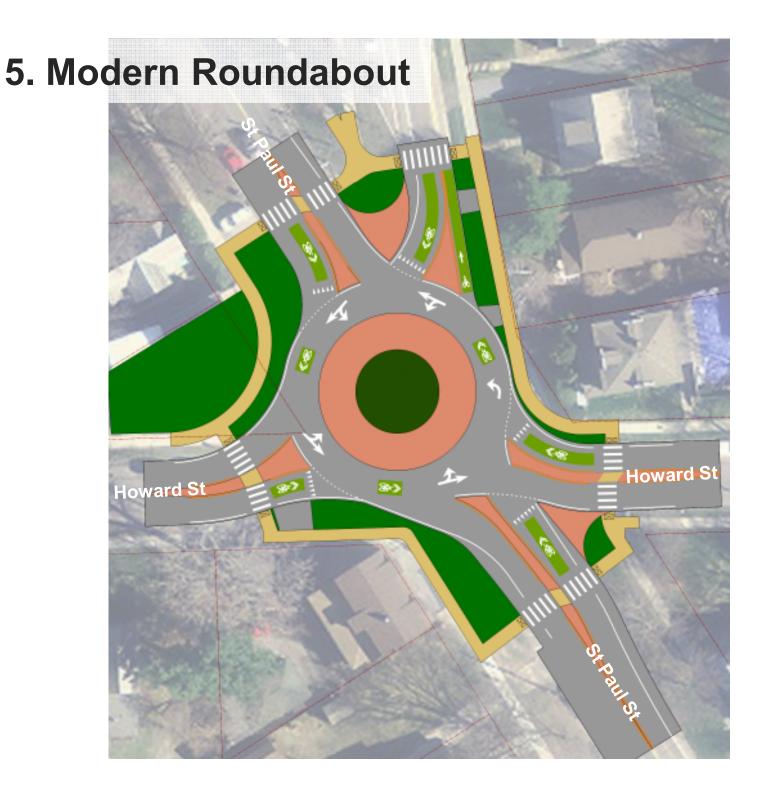


N

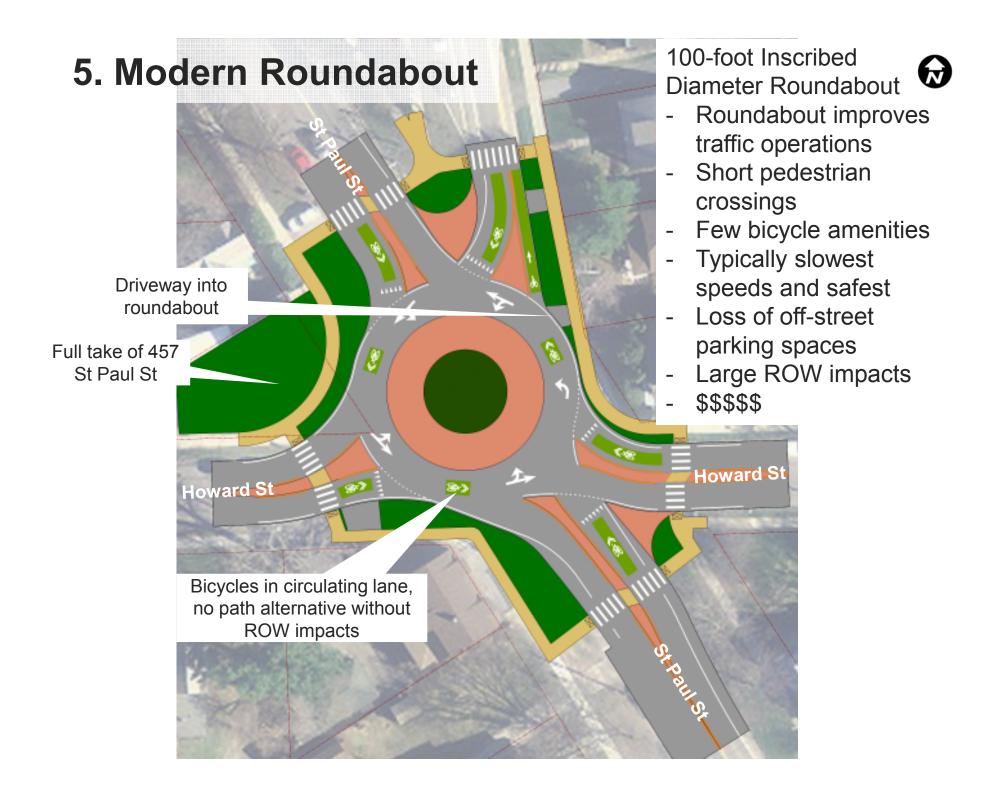


Realigned S. Winooski Avenue, dual miniroundabouts (70-foot dia.)

- Roundabouts improves traffic operations
- Short pedestrian crossings
- Few bicycle amenities
- Typically slowest speeds and safest
- Loss of street parking; off-street spaces
- No ROW impacts
- Significant impact to Potvin Park
- \$\$\$\$\$



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# **Comparison Matrix**

	Alternatives					
Issues to Address	0 No Build	1 <b>Demonstration Project</b> Existing Geometry	2 <b>New Signal System</b> Existing Geometry	3 <b>Dual Signal System</b> Realigned Roadway	4 <b>Dual Roundabout</b> Realigned Roadway	5 <b>Modern Roundabout</b> Existing Geometry
1 Crossing length for all modes	no change	improvement	improvement	improvement	improvement	improvement
2 Pedestrian crossing guidance	no change	no change	improvement	improvement	improvement	improvement
<b>3</b> Pedestrian crossing of S. Winooski Ave	no change	no change	improvement	improvement	improvement	improvement
4 Crash rate	no change	no change	improvement	improvement	improvement	improvement
5 Comfortable transit facilities	no change	no change	opportunity	opportunity	opportunity	opportunity
6 Visibility of traffic signals to motorists	no change	no change	improvement	improvement	improvement	improvement
7 Vehicle speeds	no change	improvement	no change	improvement	improvement	improvement
8 Running of red lights	no change	no change	no change	improvement	improvement	improvement
9 Wrong-way driving on S. Winooski Ave	no change	no change	improvement	improvement	improvement	improvement
10 Trucks on S. Winooski Ave	no change	no change	no change	no change	no change	no change
11 Right turns on red	no change	improvement	improvement	improvement	improvement	improvement
12 Use of Potvin Park	no change	no change	improvement	worse	worse	no change
13 Public gathering space	no change	improvement	improvement	improvement	no change	worse
14 Bicycle infrastructure	no change	improvement	improvement	improvement	opportunity	opportunity
15 Stormwater retention	no change	no change	opportunity	opportunity	opportunity	opportunity
16 Support relationship between residents and businesses	no change	improvement	improvement	improvement	no change	worse
Additional key study elements						
Traffic Operations: Level of Service	С	С	E (possible C)	C+C	B+B	В
Traffic Operations: Total Average Queue Length	730 ft	760 ft	1220 ft	1100 ft	690 ft	310 ft
Stormwater Management: Change in Permeable Area	n/a	0 sf	1270 sf	5300 sf	7720 sf	3760 sf
Parking Options: Change in Parking Spaces	n/a	0	0	-7 on-street spaces	-8 on-street, -5 off-street	-1 on-street
Cost: Relative Cost	\$\$\$\$	<b>\$</b> \$\$\$\$	<b>\$\$\$</b> \$\$	<b>\$\$\$\$</b> \$	<b>\$\$\$\$</b> \$	\$\$\$\$\$



# **Comparison Matrix**

	Alternatives					
Issues to Address Remaining Stars	0 No Build	1 <b>Demonstration Project</b> Existing Geometry	2 <b>New Signal System</b> Existing Geometry	3 <b>Dual Signal System</b> Realigned Roadway	4 <b>Dual Roundabout</b> Realigned Roadway	5 <b>Modern Roundabout</b> Existing Geometry
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6 Visibility of traffic signals to motorists	no change	no change	improvement	improvement	improvement	improvement
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Fraffic Operations: Total Average Queue Length	730 ft	760 ft	1220 ft	1100 ft	690 ft	310 ft
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	** 4	Green Stars	♦**	**	**	**



## **Break Out Groups**

Visit the tables and talk to Roxanne and Corey:

- Understand the Alternatives
- Comment on the drawings feel free to write, draw, or otherwise markup any of the drawings!
- Vote on your preferred treatment

We'll give a 10 minute warning before wrap up



# Wrap-Up

Final thoughts:

- Consensus on preferred treatment?
- Interim Improvements? (Such as build the sidewalk and South Winooski Crosswalk, now)
- Schedule
- Implementation of Preferred Alternative
- Funding Sources

#### **THANK YOU!**





Contacts

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