



Shelburne St. Roundabout

BURLINGTON, VT.

March 18, 2021
Senate Transportation
Committee



Welcome to the “Rotary”!



**Shelburne St.
Roundabout**

BURLINGTON, VT.



Shelburne Street Roundabout Project

Identified Issues

- Vehicle Volumes = 19,000 vpd
- High Crash Location
 - In 2006, 53 reported crashes in 5 years
 - In 2016, 50 reported crashes in 5 years
 - Has been on every HCL consecutively since at least 1998 (22 years)
- The “Rotary”
 - Improper size and shape
 - Too small and forces sharp turns
 - Does not discourage fast speeds
 - Improper location
 - Poor sight distance for certain movements



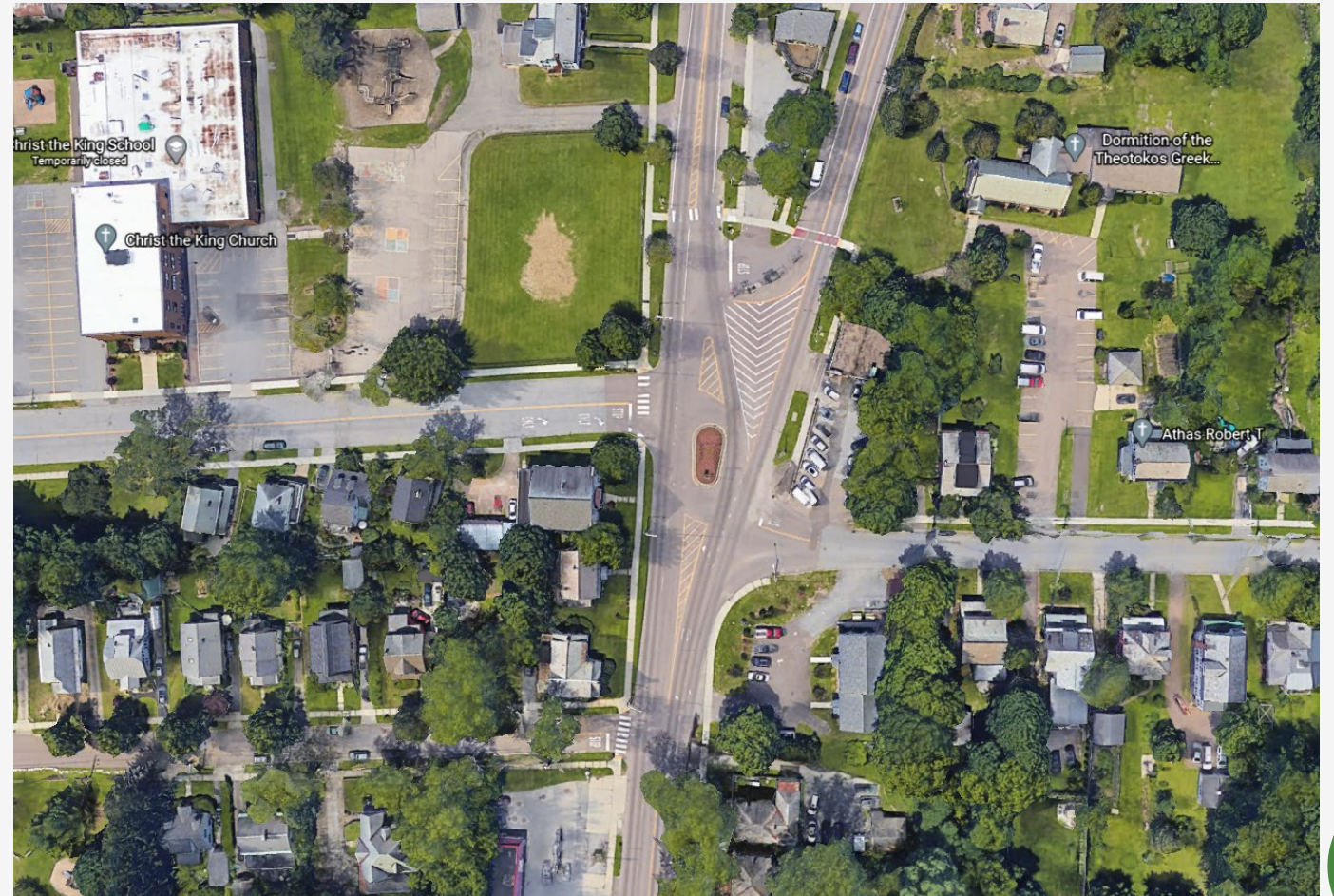
Identified Issues

- Left Turns
 - Comparatively high throughout intersection
 - Awkward movements around island
- Uncontrolled Drive Accesses
 - At Century 21 & at Majestic Car Rental
- High presence of bicyclist and pedestrians
 - School and churches are frequent destinations
 - Children
 - Long existing crosswalks
 - Inadequate number of crosswalks



Identified Issues

- Aging and failing (or soon-to-be failing) utility infrastructure
 - 37,000 linear feet (>7 miles) buried utilities
- Lack of modern stormwater treatment
- Aesthetically unappealing
 - A sea of pavement
 - Lack of landscaping
 - Not welcoming as a gateway for city



The Solution: *The Modern Roundabout*



The Solution:

The Modern Roundabout



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- Can handle the 19,200 vpd without needing new travel lanes
- Expected crash reduction of up to 72% (per FHWA CMF Clearinghouse)
- Geometry of the roundabout focuses users' sight lines by revealing and obscuring certain perspectives.
- Left turns become right turns and become more predictable to all users.
- Adjacent drives will be controlled.
- Crosswalks will be shorter in length (crossing only one lane at a time at the splitter islands) and will be in highly visible locations.
- The Central Island will create an opportunity for aesthetic treatments (creating a city gateway).
- Buried utility infrastructure will be relocated and consolidated in duct banks for easy and safe maintenance accessibility
- New stormwater treatment infrastructure meeting the latest regulations.

Anticipated Construction Impacts

No Small Feats



Ledge/Bedrock

- Shallow in places. Blasting required.
- Blasting Contractor will be available to the public for questioning.

Archaeological

- Excavation of historical artifacts by UVM.

Hazardous Materials

- Excavation of petroleum contaminated soils.
- Dewatering and treating of contaminated groundwater.

Utilities

- Build new buried infrastructure
- Keeping existing services active, there may be minor shut-offs with advanced warning.
- Disconnect and remove services after new services are installed

Transportation Management

- Many construction phases → TBD by Contractor
- Detours & Constant phase changes
- Lane and turning restrictions
- Maintaining driveway, bike, and pedestrian access

These challenges need to be relayed with the Public, so...

Public Outreach

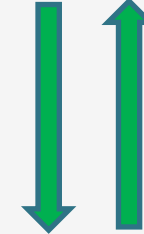
The Importance of Communication

WSP, Inc.

- Public Outreach during Preliminary Engineering and throughout Construction.
- Maintains E-Mail Distribution List
- Developed Website, Pamphlets, and staffs a 24-7 Toll-Free Hotline
- Three Upcoming Meetings:
 - NPA Ward 6 : April 1
 - NPA Ward 5 : April 15
 - Meet the Contractor : To Be Scheduled
 - Target Audience is Burlington & So. Burlington
 - Over 7,000 mailers will invite residences and businesses



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Schedule & Budget



- Contract Award: ~May 1, 2021
- Contractor: To Be Determined; Bid Opening: April 2nd
- Work Begins in June/July 2021 – Schedule subject to change
- 100% Federal Funded (-\$171,000 for contamination clean-up: VT Petroleum Cleanup Fund)
- \$7,800,000 total
 - \$250,000 for concrete duct bank
 - \$1,155,000 for reimbursable utility relocations

Questions?



Exit 16 DDI
Diverging Diamond Interchange



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<https://d1png.com/png/6388062>

Exit 16 DDI Project

Shelburne Street Roundabout Project

Stay Involved



Exit 16 DDI
Diverging Diamond Interchange



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Visit the Project Websites:

<https://vtrans.vermont.gov/projects/burlington-roundabout>

<https://exit16ddi.vtransprojects.vermont.gov>



Email Us:

info@shelburnestreetroundabout.com

info@exit16ddi.vtransprojects.vermont.gov



Call the 24-Hour Project Hotlines:

802-496-8956 (Shelburne Street)

802-595-4399 (Exit 16)