

Housekeeping Items



- Meeting is being recorded and will be posted on the project website
- Everyone is muted



For those joining us by computer or web browser

Questions may be entered in the Q&A Window at any time (button appears the bottom of the screen) - please include your email address



For those joining us by phone

Press *9 to raise your hand to be called on during the question-and-answer session following the presentation



For those joining us in person

Please raise your hand and a member of our team will alert you when it's your turn to speak during the question-and-answer session

Project Update & Drilling & Blasting Activities



Shelburne St. Roundabout

BURLINGTON, VT.

September 14, 2021
Project Information Meeting



Introductions: Project Team



Project Managers

- Michael LaCroix
- Ben Tietze



- Laura Wheelock
- Olivia Darisse



Public Outreach Officers

- Megan Savage
- Delia Makhetha
- Nick Charyk



Introductions: Project Construction Team



VTrans Construction Staff

- Josh Hulett
- Kara Yelinek



Prime Contractor

- Matt Wheeler
- Kurt Hutchins



Sub Contractor

- Lonnie Kachuck



Schedule



- Work began 09 August 2021
- Schedule: Mondays through Fridays *typically*
- Hours: 7:00 AM – 5:30 PM *typically*

- Saturday work *may* be allowed for special situations
- Nighttime work *may* be allowed for certain construction activities (i.e., utility crossings under Shelburne Street, changing traffic patterns/phases)
- Work in winter months as necessary

Schedule subject to change based on weather and site conditions

Anticipated Completion: June 2023

Construction Status

Work Accomplished Since Start

Archaeological

- Excavation of historical artifacts by UVM

Contaminated Soils & Water

- Excavation/Clean-Up of Rotary Gulf Site

Street Work

- Removal of old "rotary"
- Work Zone Traffic Patterns

Utilities

- Some sewer, water and storm on Gove Court
- Some sewer, water and storm on Locust Street



Challenges to Implementation

No Small Feats

Ledge/Bedrock

- Borings located it at depths of 2'-17' generally. Several knobs visible at surface throughout
- Blasting and hammering anticipated
- In close proximity to houses and businesses



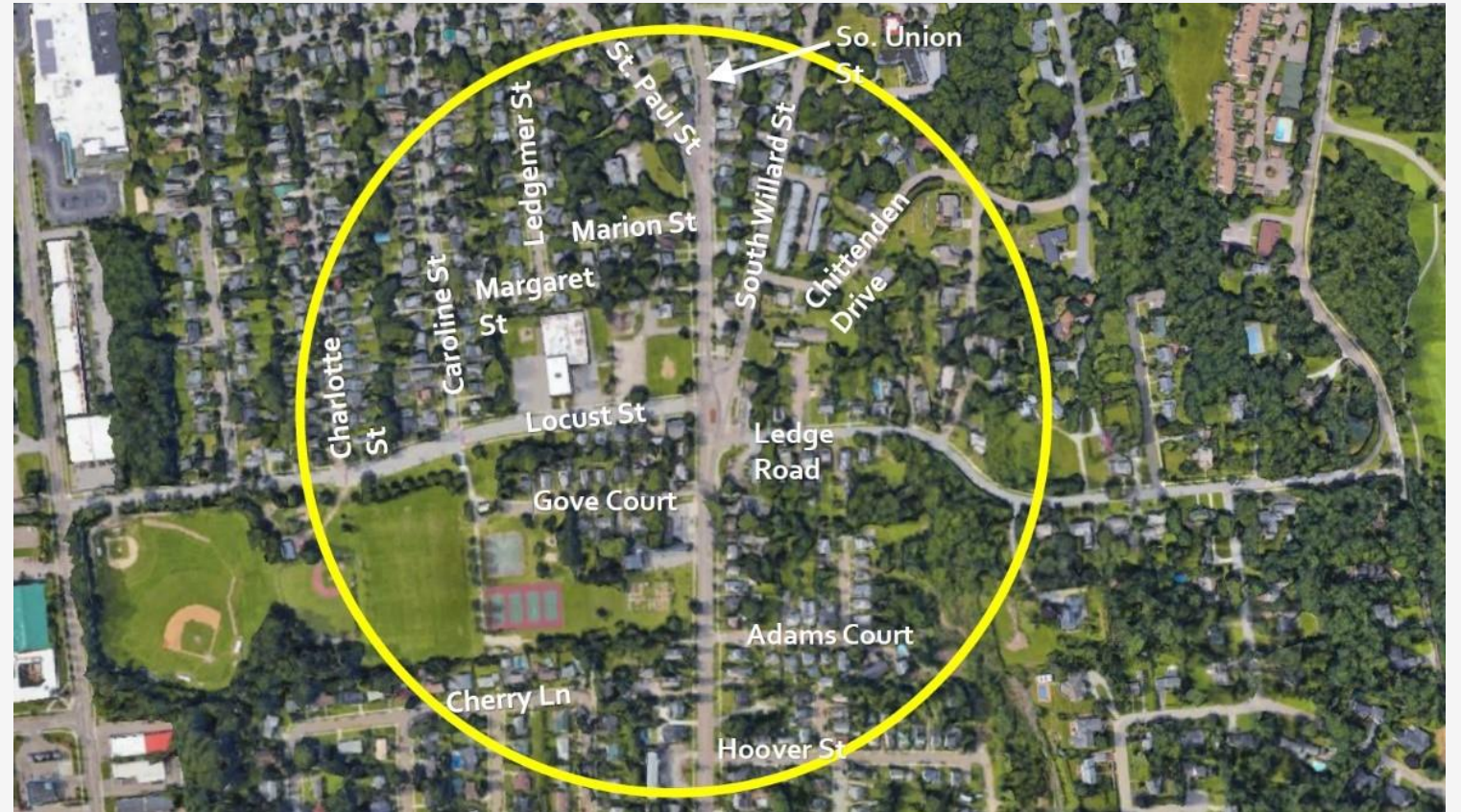
Challenges to Implementation

No Small Feats



Ledge/Bedrock

- Pre-Blast Survey
 - Within 500' of the project limits
 - SD Ireland personnel will document structural conditions prior to blasting or hammering activities



Project Details

The relocation of underground utilities and new underground storm water systems

- One of the main reasons for blasting, some underground structures approach 20 feet in depth
- Bedrock is as shallow as 2 feet





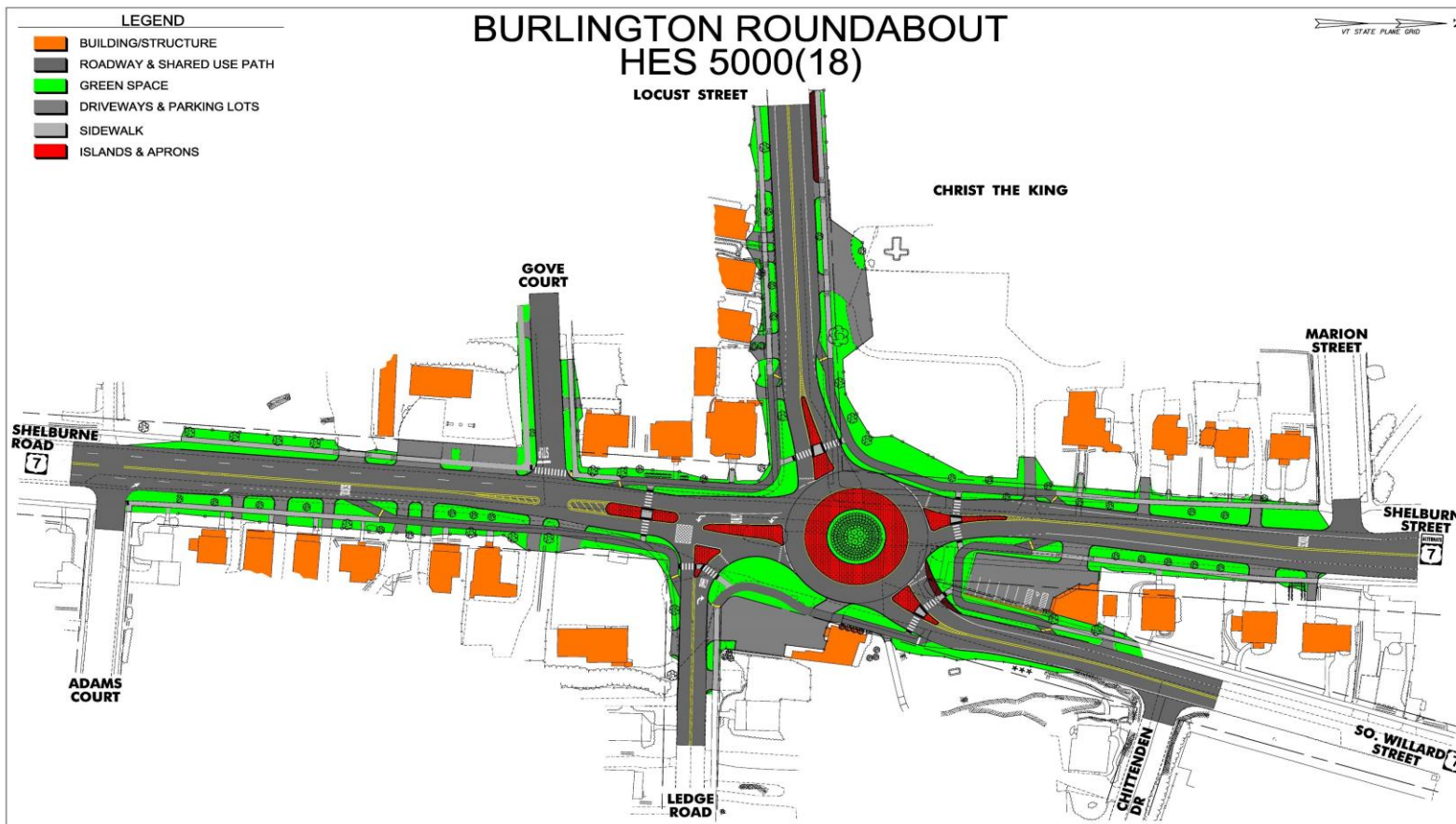
What blasting is:

- A series of small, controlled explosions used to shatter rock
- Blasts will be underground and contained
- There will be a small rumbling in the ground

What blasting is NOT:

- Blasting is NOT like you see on TV or in movies
- There will be NO visible fireballs, dust outside of usual construction activity, or flying debris
- Buildings will NOT shake and rattle like an earthquake
- Blasting will NOT be loud

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Where will blasting occur?

During the current construction phase

- From Locust Street south to Adam's Court

During the remainder of the project

- Both sides of Shelburne Street, from Chittenden Drive to Adam's Court

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Why is blasting being conducted?

Blasting is the most efficient way of rock removal

- One blast can fracture rock that would take days or weeks using mechanical methods
- Mechanical methods have been used and are proving to be extremely inefficient

There are thousands of feet of underground utilities being installed

- Blasting will expedite this process and the project in general



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How will blasting be conducted?

A series of small blasts

- A delay is set between each blast to lessen vibrations

Blasts will be contained

- Blasting mats will be placed over the top of the blasting area
- Blasting mats will contain any debris from leaving the work area



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When will blasting occur?

Blasting is restricted to weekdays during non-peak traffic hours

- Monday – Friday, excluding holidays
- 9:00 AM – 3:00 PM

Only after proper warning and safety measures are in place

- Audible signals before blasting
- Traffic held clear and/or detoured
- Spotter at sidewalks to stop pedestrians
- Confirmation that the area is clear

**Capital Rock's
Blasting
Warning Signals**

**Three Whistles - 5
minutes to blast**

**Two Whistles - 1
minute to blast**

**One Whistle - All
Clear**

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Who will be doing the blasting?

Capital Rock Drilling and Blasting



- Based in New Hampshire
- Provide blasting services in Maine, New Hampshire, Massachusetts and Vermont

Many of their drillers and blasters have over 25 years of experience

- Have completed many similar projects in residential areas, and New England cities like Boston, MA and Manchester, NH
- Experience with similar type of rock



Shelburne Street Roundabout Project

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What you can expect during blasting

- Lots of preparation
 - Audible signals
 - Traffic held and/or detoured
 - People checking to make sure the area is clear
 - Residences within project area will be notified of blasting schedule
- A small rumble in the ground
 - Existing rock is very hard and brittle
 - Small delayed charges will be used
 - Blasting mats will contain any debris



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What precautions are begin taken?

- Pre-Blast surveys are being conducted at adjacent properties within 500' of blasting zone
- Seismographs are deployed throughout the project area to ensure vibration limits are not being exceeded
- Coordinating with utility companies to be present on site to manage any necessary shutoffs
- Residents will be given prior notice of any planned utility shutoffs
- After a blast the area will be cleared by blasting specialists
 - They will ensure there are no undetonated charges
 - Only after clearance will motorists and the general public be allowed in the area

Questions?



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Stay Involved



Visit the Project Website:

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

Sign Up Here for E-Mail Notifications on Construction Updates and Traffic Alerts



Email Us:

info@shelburnestreetroundabout.com



Call the 24-Hour Project Hotline:

802-496-8956