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
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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
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
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
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
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
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
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
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
What precautions are being 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.
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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