

Shelburne – South Burlington NHG SGNL(51)

US Route 7 Traffic Signal Improvements

CCRPC TAC Meeting
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Presentation Overview

- History
- AID Grant
- Project Location
- Project Overview – Contract 1
- Project Overview – Contract 2
- Project Benefits
- Questions



History

- Federal AID Grant Awarded – January 2019
- 2 Projects Defined – October 2019
 - Shelburne – South Burlington NHG SGNL(51) Contract 1
 - Shelburne – South Burlington NHG SGNL(51) Contract 2



Accelerated Innovation Deployment (AID) Grant

\$996,000 in Federal AID Grant Funds

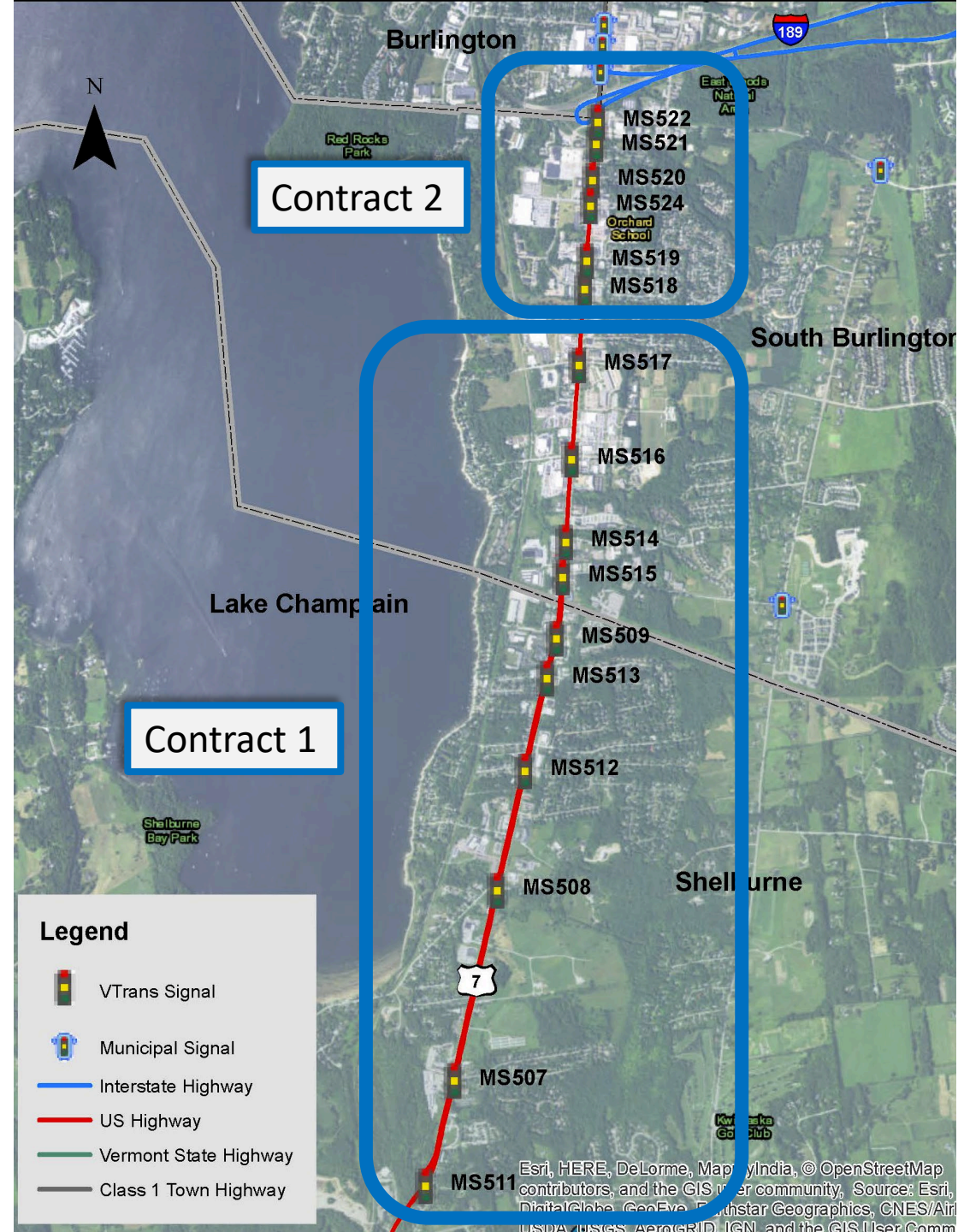
- 20% State Match

Signal Infrastructure Included

- Establish communications
- Bluetooth equipment (travel time)
- Advance detection equipment
- Cameras
- Updated signal cabinets and controllers

Project Location

US Route 7 Corridor (17 signals)



Contract 1 Project Location (10 Signals)

Webster Road

Longmeadow Drive

Bay Road

Lakeview Drive

Martindale Road

Pinehaven Shores

Allen Road

Harbor View Road

Green Mountain Drive

IDX Drive



Contract 1 Overview

Additional Signal Needs

- Signal Heads
- Flashing Yellow Arrows
- Stop Bar Detection
- Emergency Pre-emption
- Pedestrian Signal Equipment
- Connected Vehicle Capability
- Updated signal cabinets and controllers

Infrastructure Included by AID Grant

- Establish communications
- Bluetooth equipment (travel time)
- Advance detection equipment
- Cameras

Contract 1 Overview

Cost

- Construction Estimate – \$1.90 million
- Apparent Low Bid – \$1.94 million

Schedule

- Construction Begins – June 2020
- Contract Completion – October 2020

Contract 2 Project Location (7 Signals)

McIntosh Avenue

Baldwin Avenue

Laurel Hill Drive

Brewer Parkway

Queen City Park Road

Swift Street

I-189 Off Ramp



Contract 2 Overview

Additional Signal Needs

- Mast Arm Poles
- Signal Heads
- Flashing Yellow Arrows
- Stop Bar Detection
- Emergency Pre-emption
- Pedestrian Signal Equipment
- Connected Vehicle Capability

Infrastructure Included by AID Grant

- Establish communications
- Bluetooth equipment (travel time)
- Advance detection equipment
- Cameras
- Updated signal cabinets and controllers



Modernizing Signal Equipment

Contract 2 Overview

Cost

- Construction Estimate – \$2.3 million

Schedule

- Final Plans – April 2020
- Advertise – June 2020
- Active Construction – Summer 2021

Project Benefits

- Ability to monitor traffic and adjust signal timing remotely
- Automated alerts to signal technicians in the event of a system failure
- Automated Traffic Signal Performance Measures (ATSPMs)
- Replaces dated equipment
- Improved signal coordination
- Reduce delay for left turns





Thank you!

Questions?