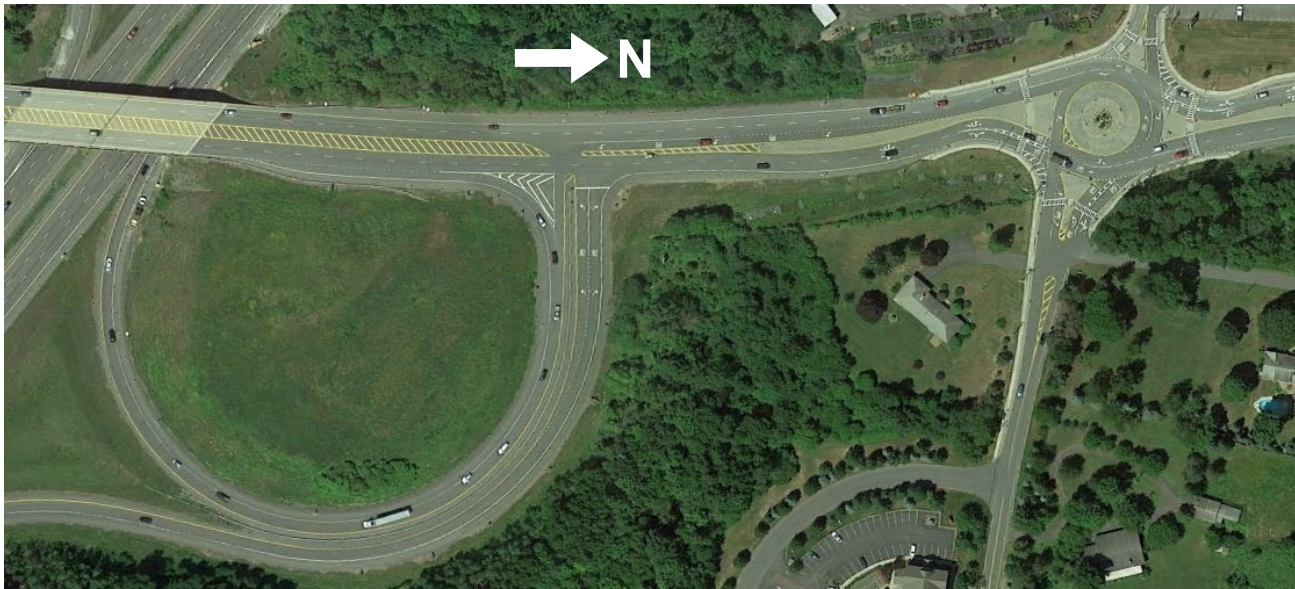




**Department of
Transportation**

Public Information Meeting

August 12, 2020



**U.S. Route 4/I-90 Intersection Safety Enhancements
I-90 Exit 9 Westbound Ramps
Town of East Greenbush; Rensselaer County
PIN 1089.79**

Introductions

- Kelley Kircher – Project Manager
- Nick Loucks – Project Designer

Agenda

- Project Overview
- Context/Existing Conditions
- Project Objectives
- Alternatives
- Schedule
- Cost
- Q&A

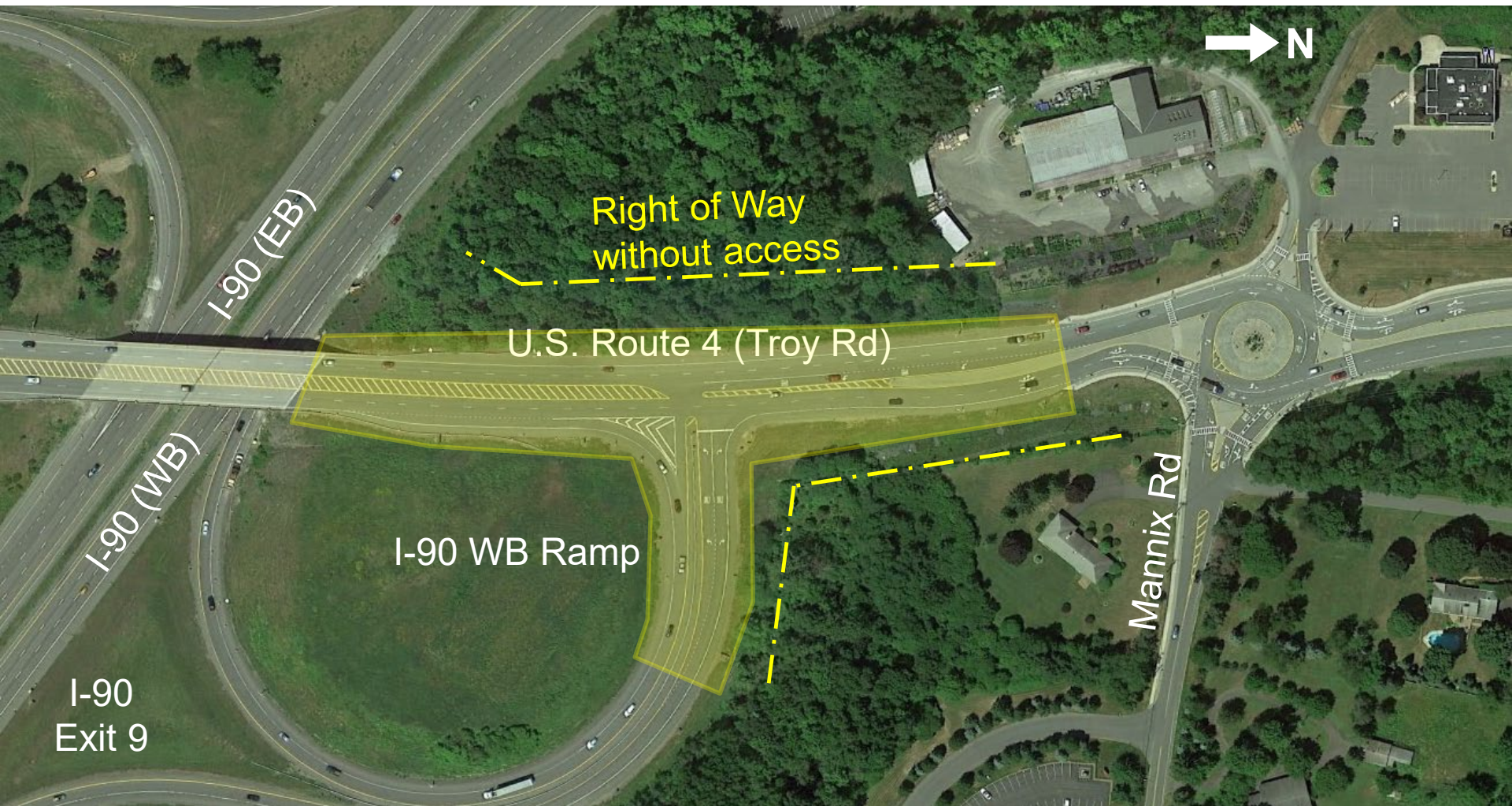
Project Overview

- NYSDOT identified US Route 4/I-90 Westbound ramp intersection during safety screening
 - 2018 High Accident Location (HAL)
 - Listed as Safety Deficient Location (SDL)
 - Priority Investigation Location (PIL)
- Project placed on the Capital District Transportation Committee *Transportation Improvement Program*
- Highway Safety Improvement Program (HSIP)
 - Federal Aid Program to achieve a significant reduction in fatalities and serious injuries

Context - Location Map



Project Location



Site Photos



U.S. Route 4 Looking North
at Mannix Rd.

Site Photos



U.S. Route 4 Looking South
from Mannix Rd.

Site Photos



U.S. Route 4 Looking Northeast
at I-90 Westbound Ramp

Site Photos



I-90 Westbound On-Ramp
Looking East

Site Photos



I-90 Westbound Off-Ramp
Looking South

Crash Analysis

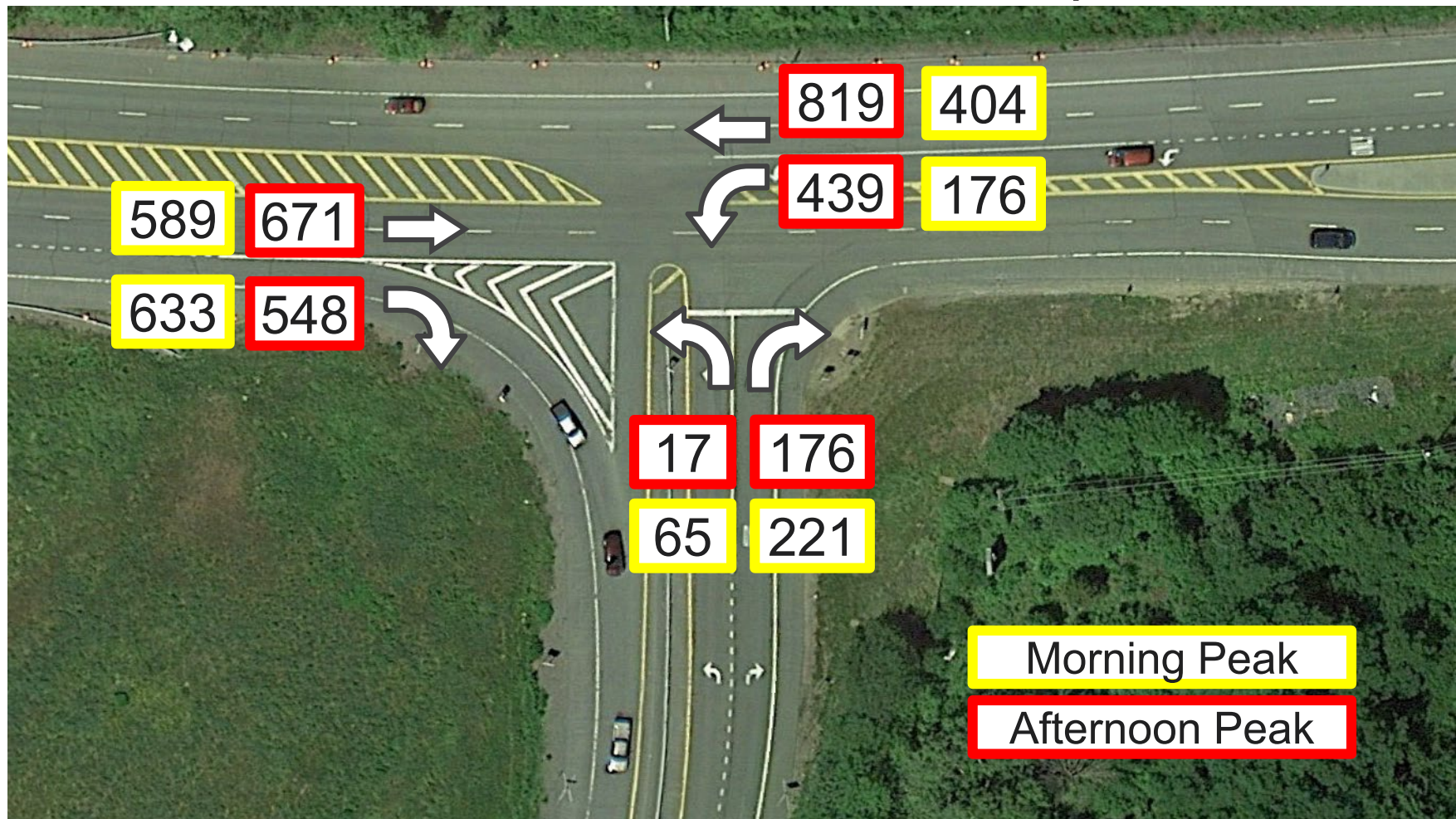
Type of Intersection Crash	Rt 4/I-90 Westbound Intersection	Statewide Average
Overall (c/mev) ¹	0.57	0.18
Left Turns (c/mev) ¹	0.27	0.02

- 19 crashes from June 2016 – May 2019
 - 9 crashes southbound left turns onto I-90 ramp
 - 6 of 9 southbound left turn crashes resulted in personal injury
 - No crashes involving pedestrians or bicyclists

1. c/mev = crashes per million entering vehicles

Existing Conditions

2021 Traffic Volumes – vehicles per hour



Operating Speeds

Location	Speed Limit	85 th Percentile Speed
U.S. Route 4	45 MPH	51 MPH

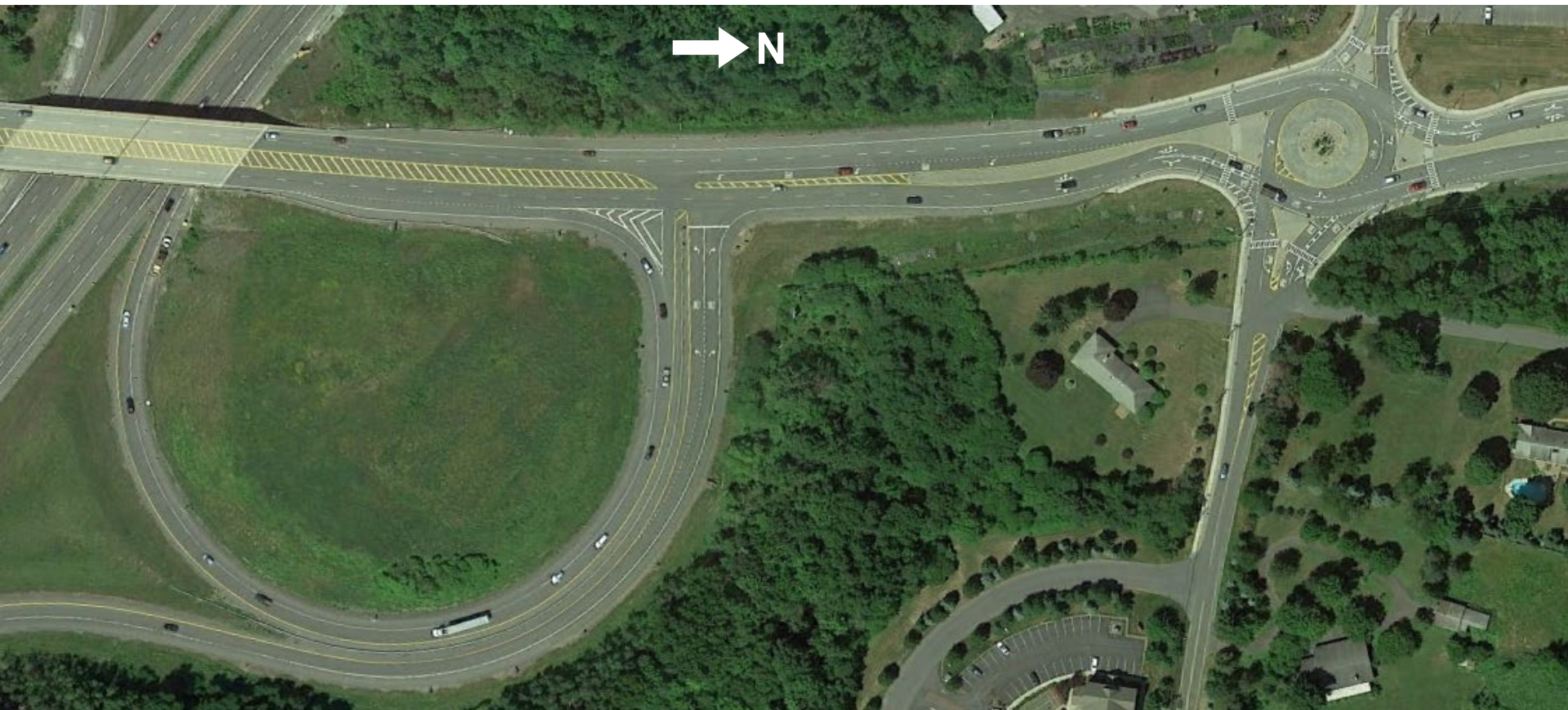
Project Objectives

- **Primary Objective:**
 - Correct safety deficiencies using cost-effective accident reduction measures such that crash frequency, severity, and vehicular conflict points are reduced

- **Secondary Objective:**
 - Improve overall traffic conditions using cost-effective methods to reduce delay and continuously provide an acceptable level of service, for a design period of 20 years

Alternatives

Alternative #1 (Null Alternative)



Alternatives

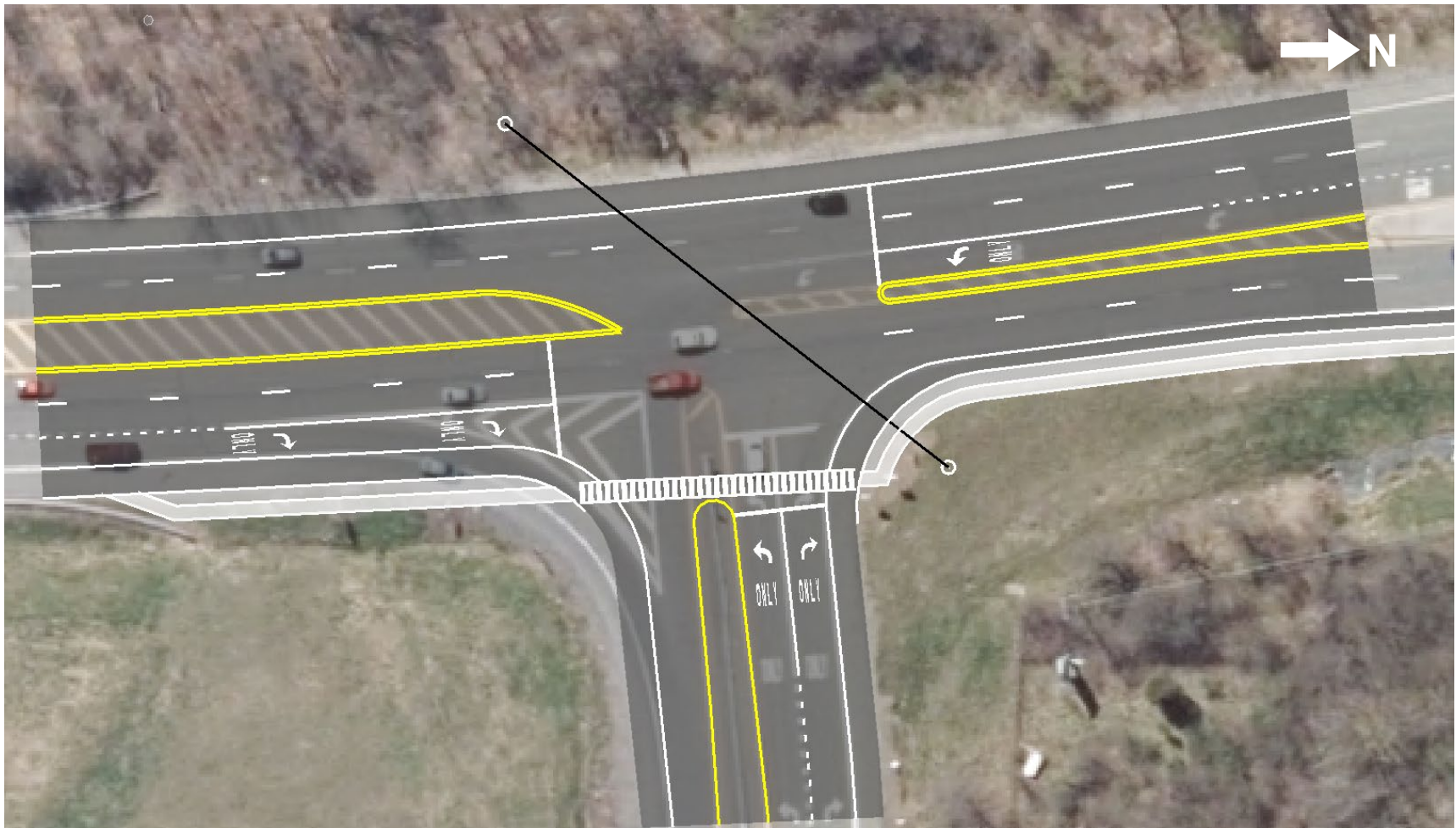
Alternative #2 (Signal)



Before

Alternatives

Alternative #2 (Signal)



After

Alternatives

Alternative #3 (Roundabout)



Before

Alternatives

Alternative #3 (Roundabout)



After

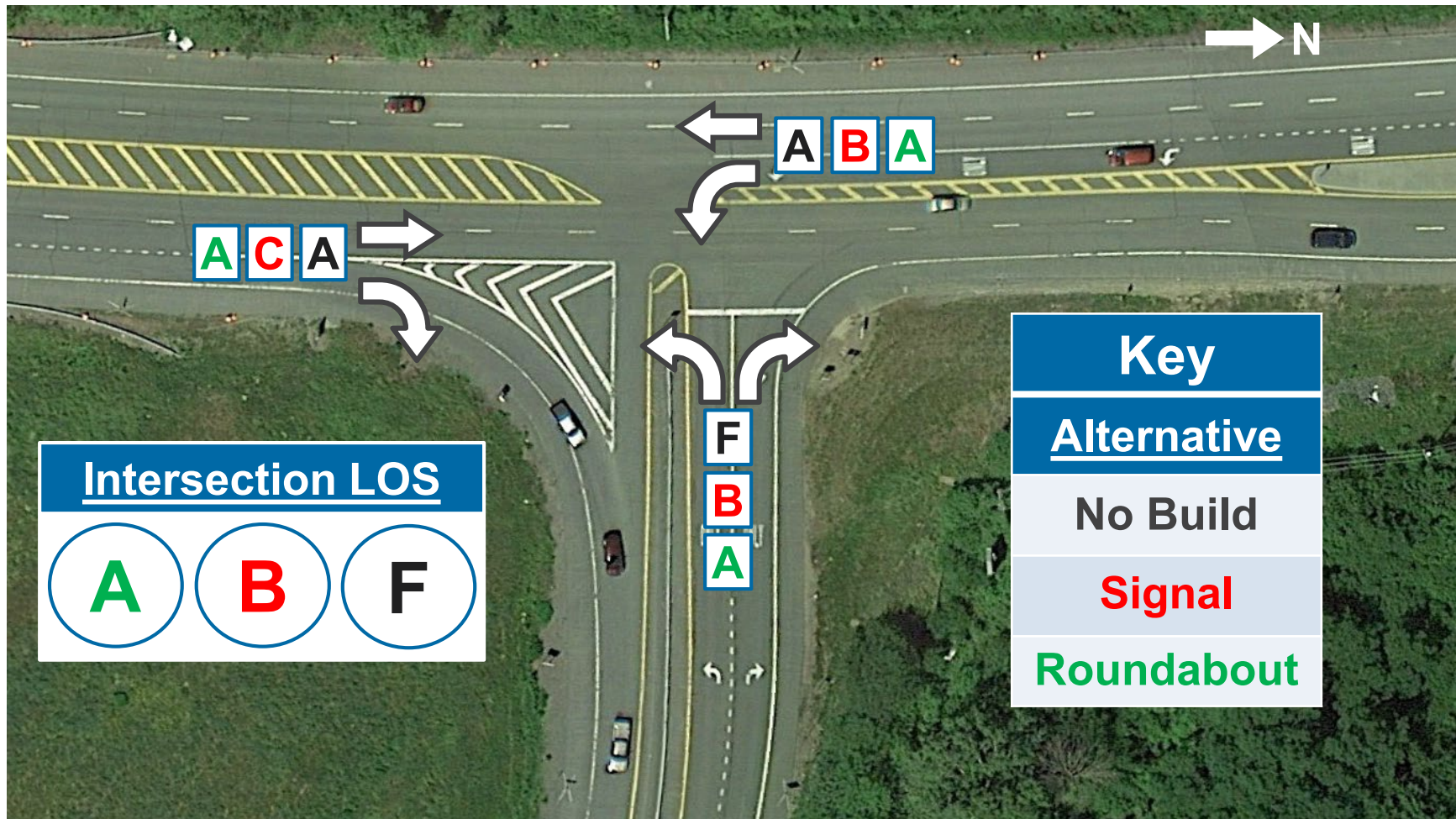
Alternatives

Alternative #3



Alternatives

Level of Service (LOS) Analysis – 2041 Design Year PM



Alternatives

Alternative #3 - Simulation



Alternatives

Additional Benefits - Roundabouts

- Result in slower speeds through intersection⁽¹⁾
- Reduced crash frequency and severity⁽¹⁾
- Lower speed vehicle-pedestrian conflict
- Reduced emissions and noise
- Aesthetically pleasing

Sources:

(1) National Cooperative Highway Research Program Roundabout Guide



Work Zone Traffic Control

- Construction to be sequenced along with Phase 1 improvements: one contractor, NYSDOT inspecting
- Roundabout to be built in phases
 - Some short-term closures are expected
 - Emergency services and school districts to be notified in advance
 - Night work may be used for the roundabout
- Lane closures are expected
- Minimize impact to traveling public, bus routes

Additional Information

- Environmental
 - SEQRA Type II, NEPA Class II Categorical Exclusion (pending FHWA approval)
 - NYSDEC SPDES Permit - stormwater
- Public Involvement
 - Meet with local officials, coordinate with school district, emergency services
- Right-of-way
 - No acquisitions expected; Right of Way is Without Access
- Utilities
 - Roadway lighting will be added
 - One vault will be relocated
- Landscaping
 - Center island

Project Schedule

Project Phase	Anticipated Date
Design Approval	Fall 2020
Final Design	Winter 2021
Bid Date	April 2021
Construction Begins	June 2021
Construction Substantially Complete	December 2021

Project Cost

Project Element	Cost
Construction Cost – 2020 Dollars	\$3.42 M
Inflation	\$0.10 M
Construction Cost – 2021 Dollars	\$3.52 M
Right of Way	\$0

Thank you!

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 - E-Mail – Kelley.Kircher@dot.ny.gov

Questions?

Comments?