



**Charlton-Oxford  
Route 20 Reconstruction Project  
Project File No. 602659**

Public Informational Meeting  
January 29, 2020  
Oxford High School



# Meeting Agenda

**01** Welcome and Introductions

**02** Project Overview

**03** Project Update

**04** Project Schedule

**05** Public Comments and Q & A

# Charlton-Oxford Route 20 Reconstruction



- Limits of Project
  - Begin at Richardson Corner Rd, Charlton
  - Extend 3.2 miles east to Rte. 12, Oxford
- Approx. 26,000 vehicles/day
- Signalized Intersections, Richardson Corner, Route 56, and Route 12

## Existing Conditions

- West of Route 56 – Corridor lined primarily with commercial/industrial businesses
- East of Route 56 – Residential pocket community, Thayer Pond Condos
- Two 11-foot lanes each direction with 1 foot outside shoulders
- Double yellow centerline painted over rumble strip and stanchions
- Median guardrail along horizontal curve, west of Oxbow Road

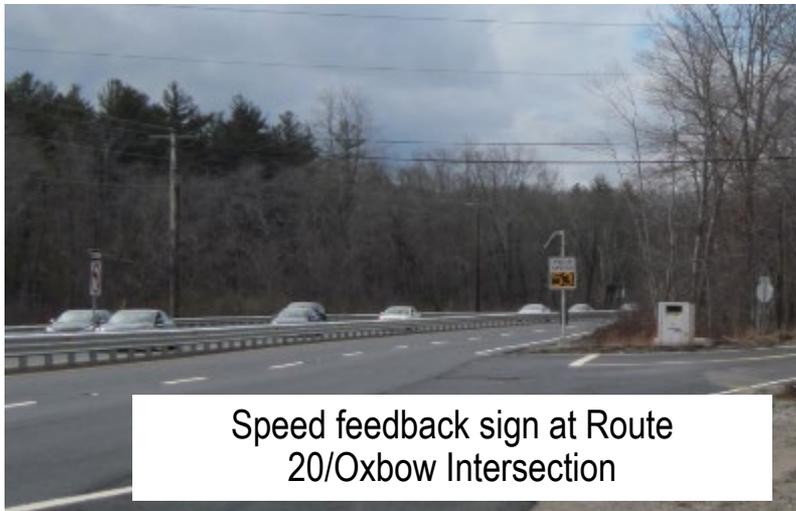


# Safety Improvement Measures

- Curve Near Oak Drive/Oxbow Road
  - Widened and resurfaced the roadway 3-6 feet each side
  - Double faced thrie-beam median guardrail
  - Permanent speed feedback signs
  - Dynamic, lighted curve warning signs and chevrons
  - Accident reports indicate the guardrail is preventing vehicular travel into oncoming traffic



Route 20 and Town line looking east



Speed feedback sign at Route 20/Oxbow Intersection



Route 20 Curve at Oak Drive looking east

## Project Purpose

“The purpose of the project is to improve safety, geometry and traffic operations in the project corridor.”

Draft Environmental Impact Report, November 2017

- Dividing the corridor by adding a median/barrier
- Improving alignment of the roadway corridor
- Improving the operations of signalized intersections



# Value Engineering Study

MassDOT conducted a Value Engineering (VE) Study to identify modifications to the previous design that will maintain the project benefits and reduce costs and impacts.

## Several major project changes

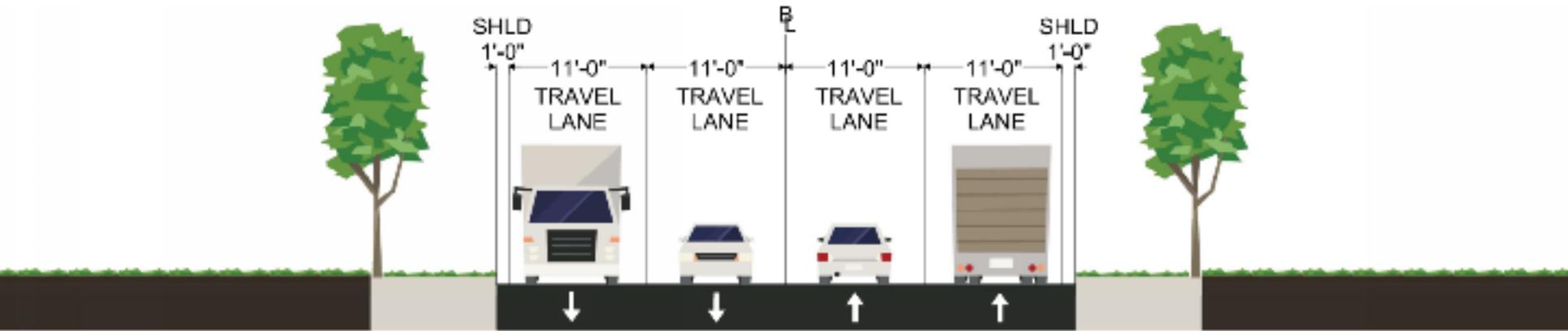
- Reduce the proposed roadway width
- Eliminate the quadrant roadway and maintain a traditional intersection at Route 56
- Reduce the horizontal and vertical alignment changes

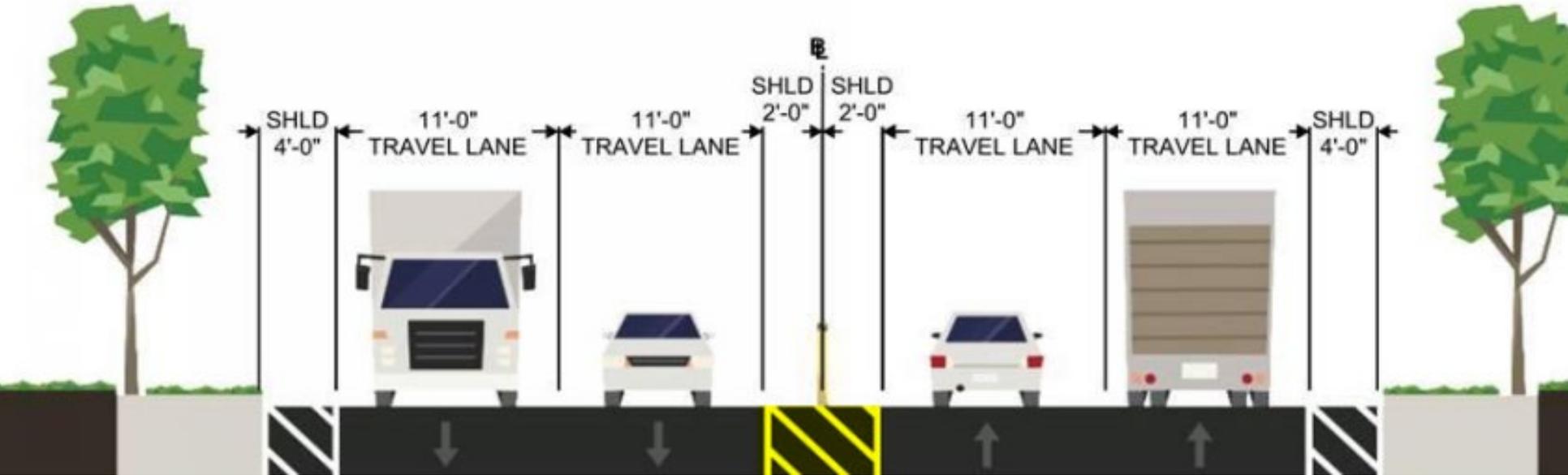
## Project savings

- Less impacts to resource areas and private property
- Reduces the scope of work and duration of construction
- Maintains the safety improvements of the original design



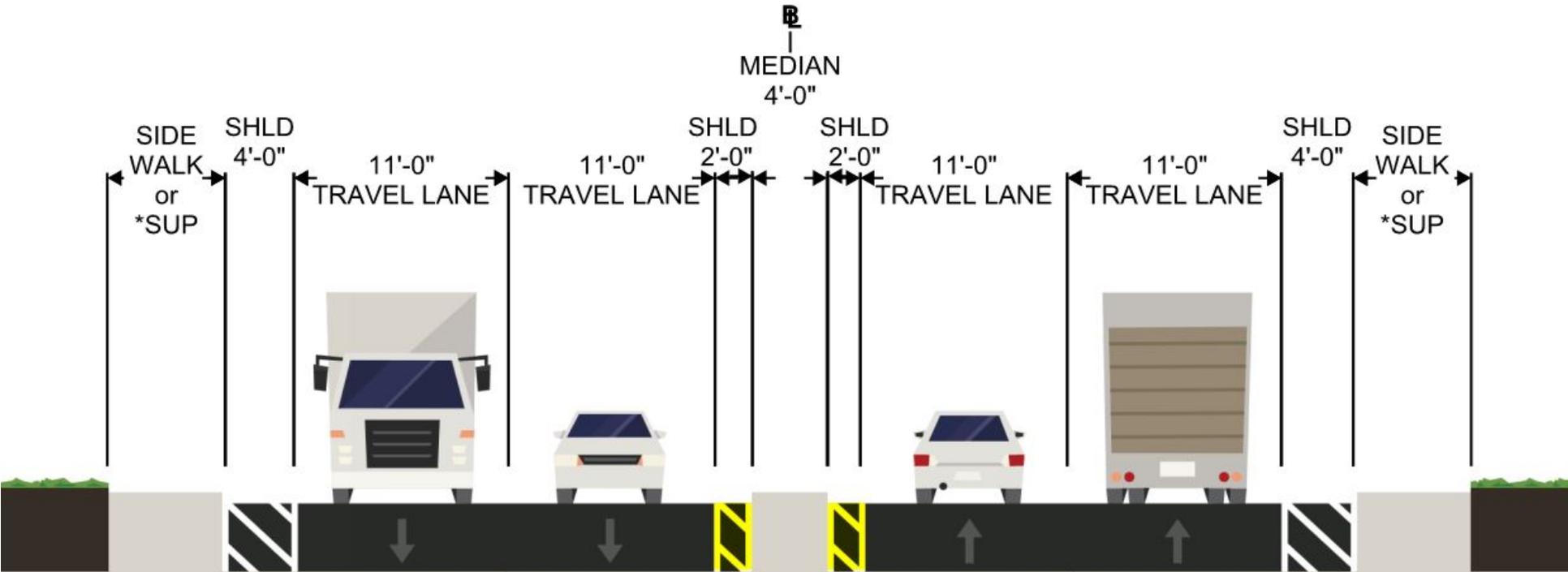
## Existing Cross Section





## Proposed Cross Section (Richardson's Corner to Rte. 56)

- Improved roadway surface and widening
- Roadway alignment improvements
- Fixed concrete median barrier from Richardson's Corner to Route 56
- Emergency "Pull Off" Areas

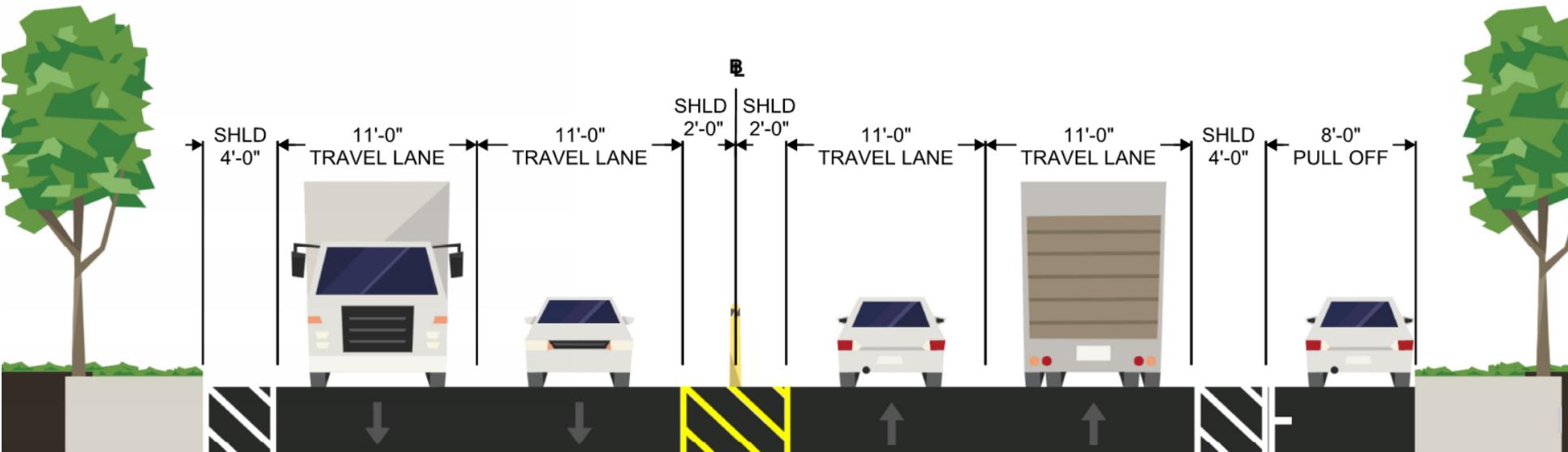


## Proposed Cross Section (Rte. 56 to Rte. 12)

- Improved roadway surface and widening
  - 4' wide raised median with intermittent guardrail at curves from Rte. 56 to Rte.12
  - Roadway alignment improvements
  - Sidewalk/Shared-Use Path (SUP) at Rte. 56 intersection and along Rte. 20 from Rte. 56 to Rte.12
  - Emergency "Pull Off" Areas
- \* Shared-Use Path (SUP)

## EMERGENCY “PULL OFF” AREAS

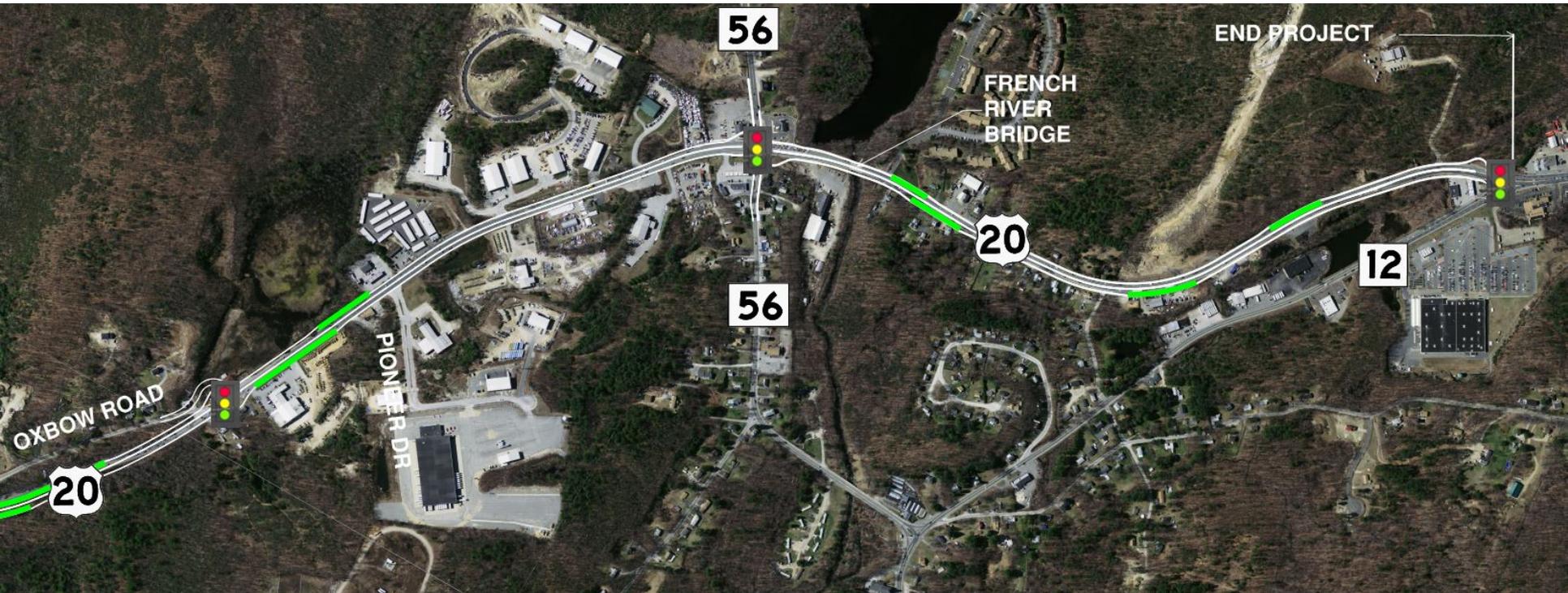
- Emergency Pull Off Areas are locations designed to provide additional shoulder width for workers, traffic enforcement, and vehicle breakdowns
- Two meetings were held with emergency professionals from Charlton and Oxford to determine beneficial locations to implement pull off areas
- Pull off locations will be provided along Route 20 in areas that have minimal impacts to private properties and wetlands



# EMERGENCY “PULL OFF” AREAS (Richardson’s Corner to Pioneer Drive)



# EMERGENCY "PULL OFF" AREAS (Oxbow Road to Route 12)



# Proposed Project Improvements Richardson's Corner to Route 12

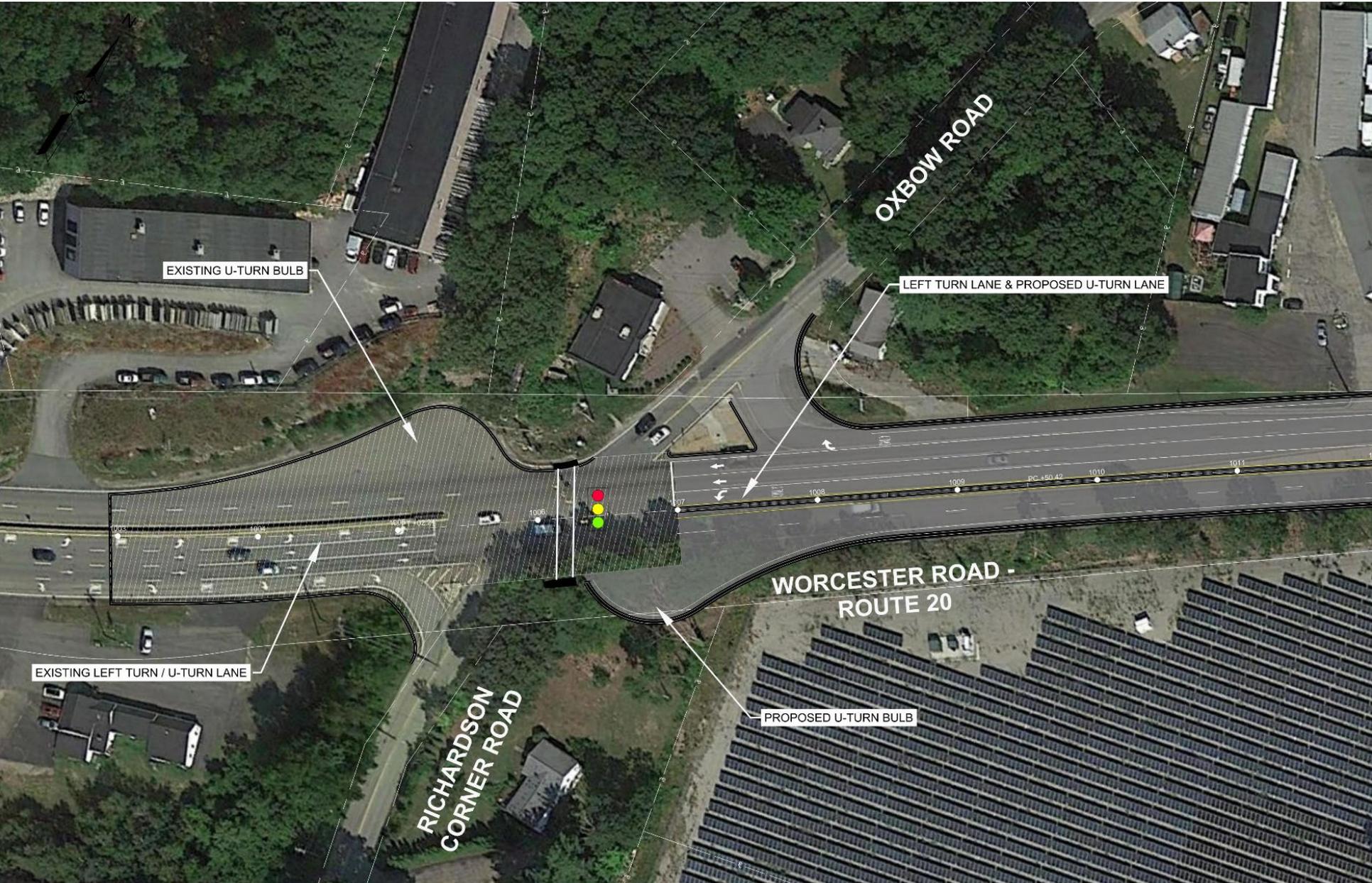


- Bridge improvements
  - Little River
  - French River
- Full U-turn locations at signalized intersections
  - Richardson Corner
  - Oxbow Road
  - Route 56
  - Route 12

# Richardson Corner Road Intersection (Existing Conditions)



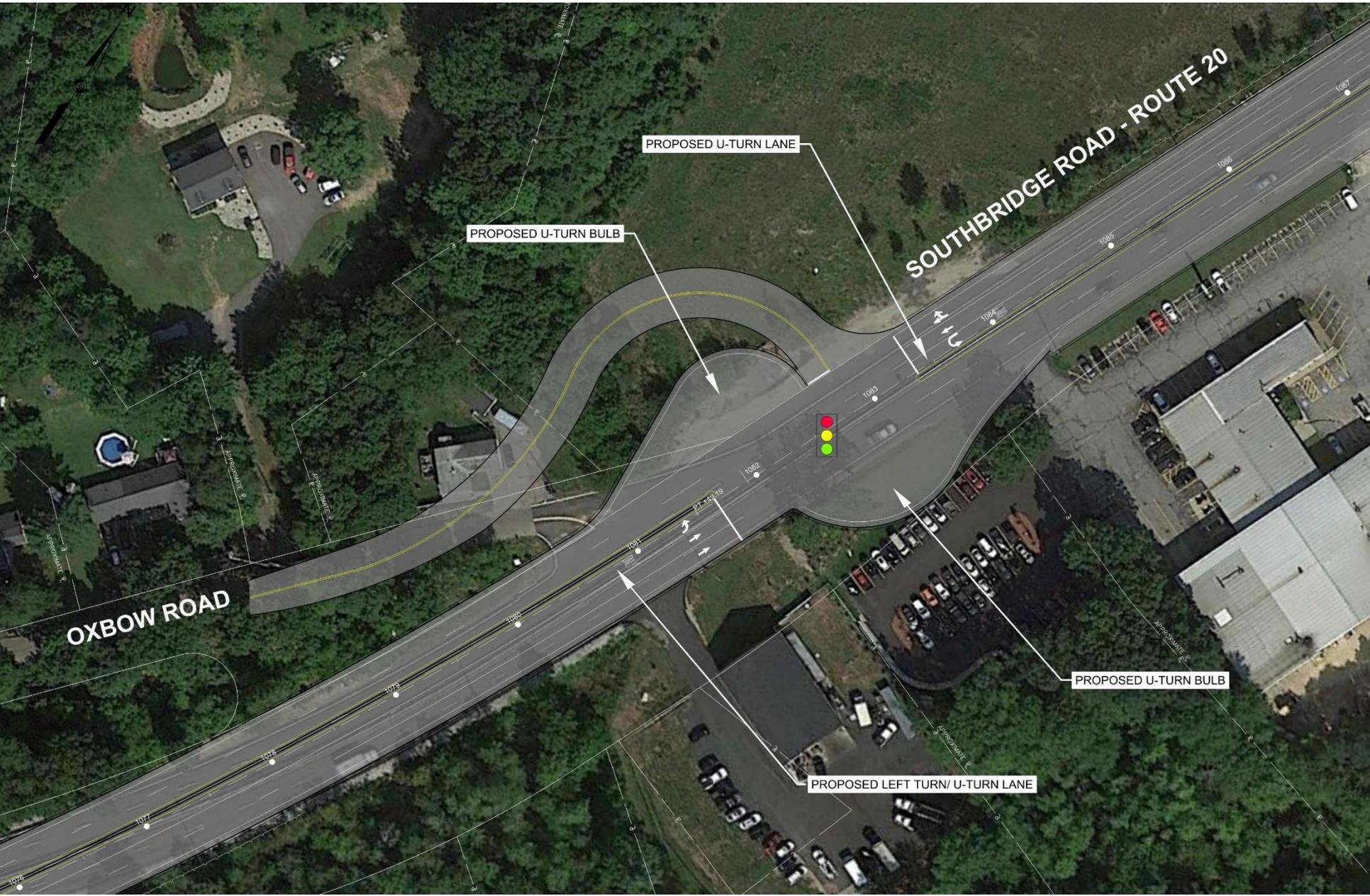
# Richardson Corner Road Intersection (Proposed Conditions)



# Oxbow Road Intersection (Existing Conditions)



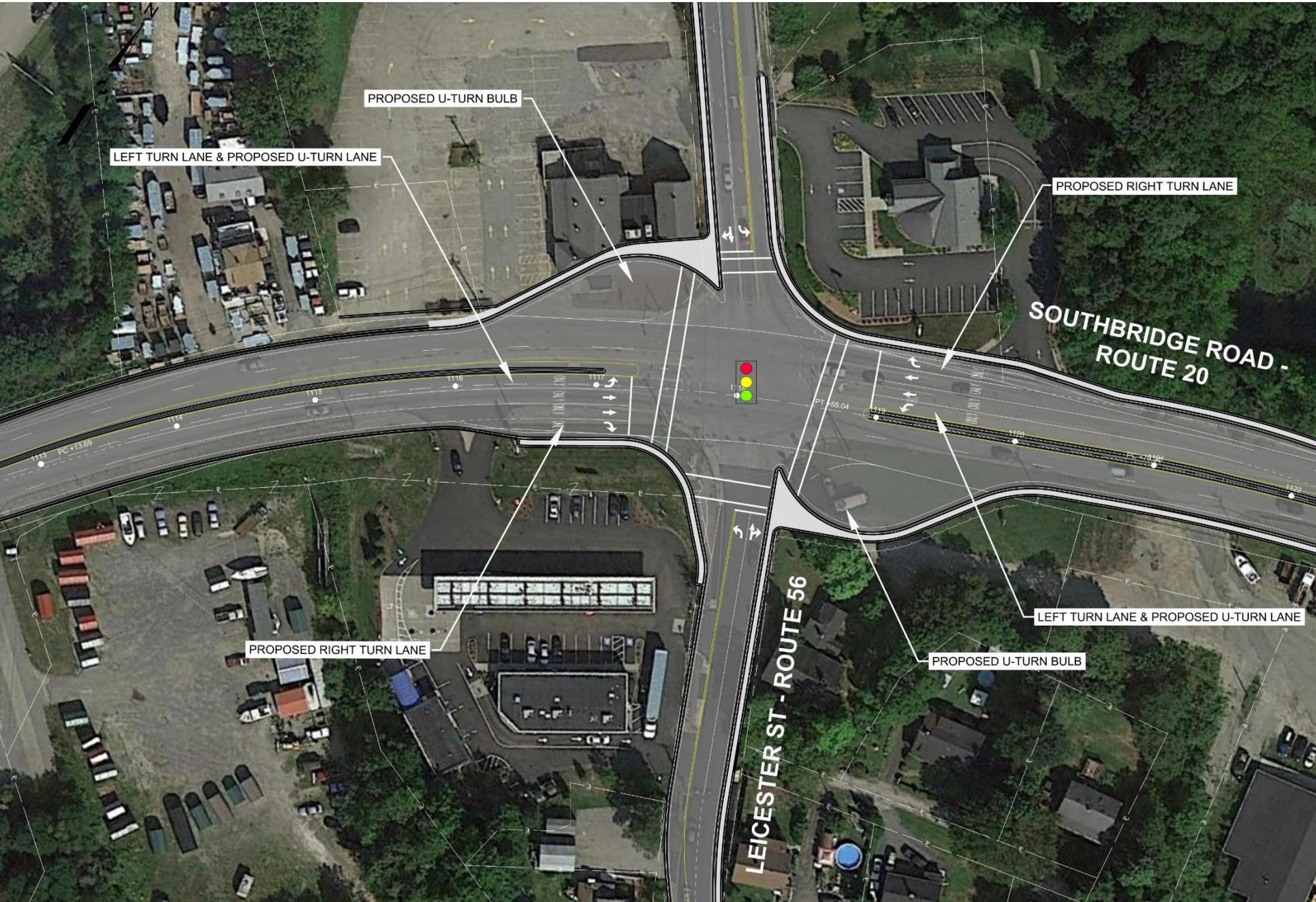
# Oxbow Road Intersection (Proposed Conditions)



# Route 56 Intersection (Existing Conditions)



# Route 56 Intersection (Proposed Conditions)



# Route 12 Intersection (Existing Conditions)

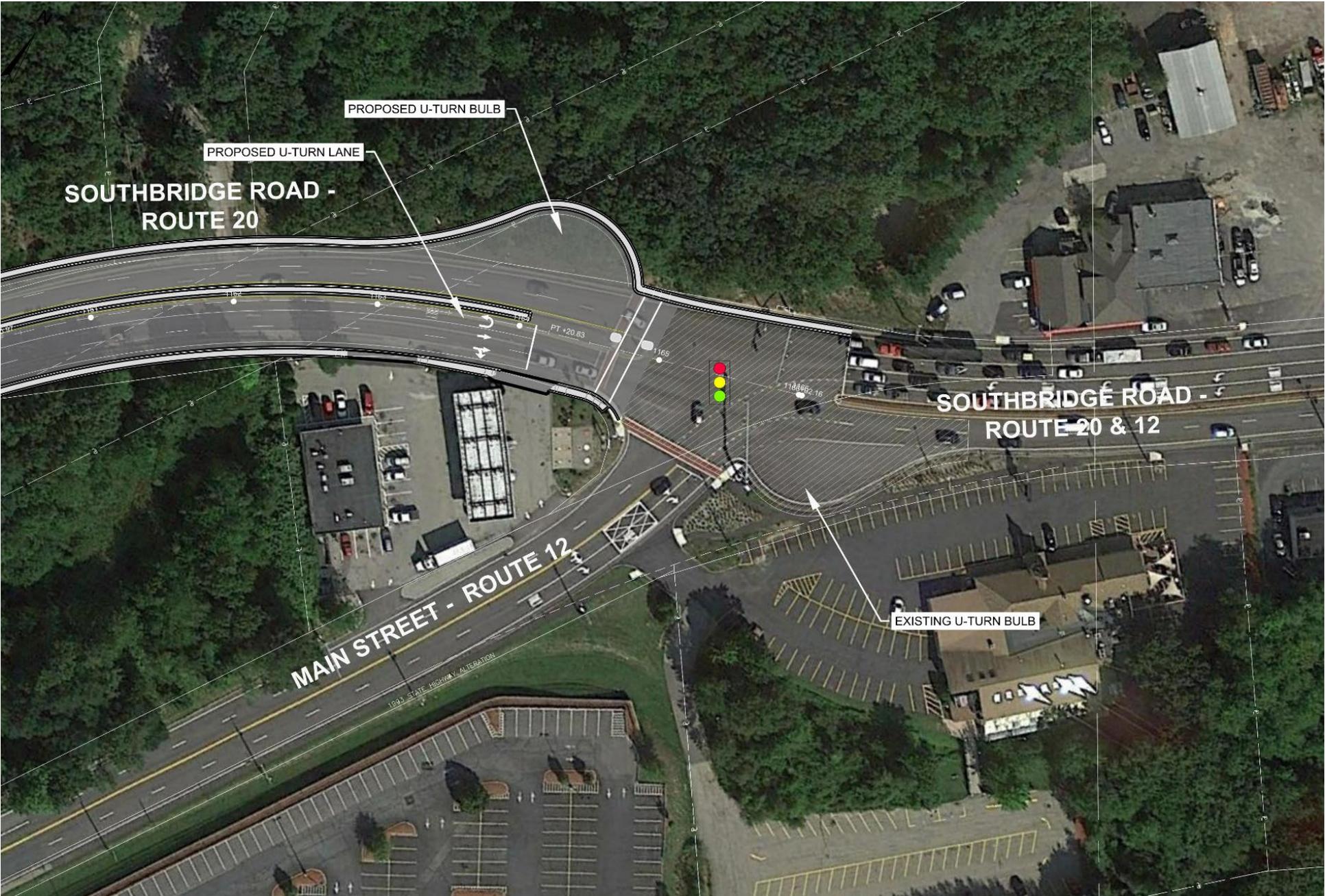


SOUTHBRIDGE ROAD -  
ROUTE 20

MAIN STREET - ROUTE 12

SOUTHBRIDGE ROAD -  
ROUTE 20 & 12

# Route 12 Intersection (Proposed Conditions)



SOUTHBRIDGE ROAD -  
ROUTE 20

PROPOSED U-TURN LANE

PROPOSED U-TURN BULB

SOUTHBRIDGE ROAD -  
ROUTE 20 & 12

MAIN STREET - ROUTE 12

EXISTING U-TURN BULB

1893 STATE HIGHWAY ALTERATION

PT #20.83

1188592.16

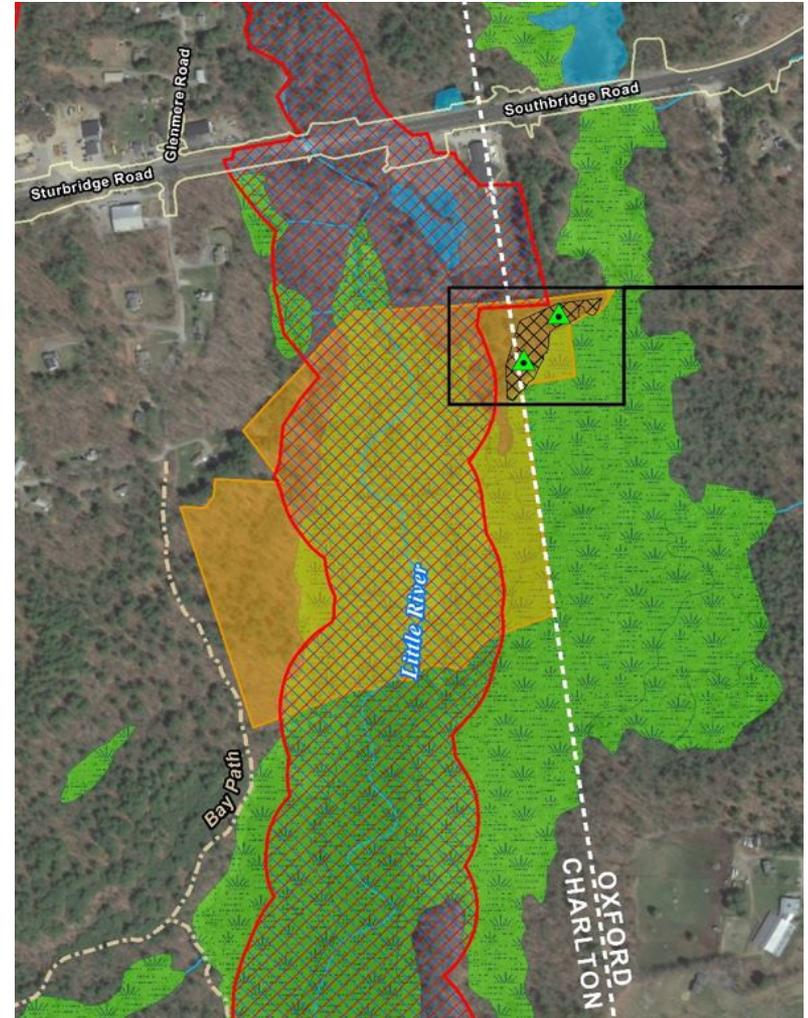
# Regulatory Approvals/Permits

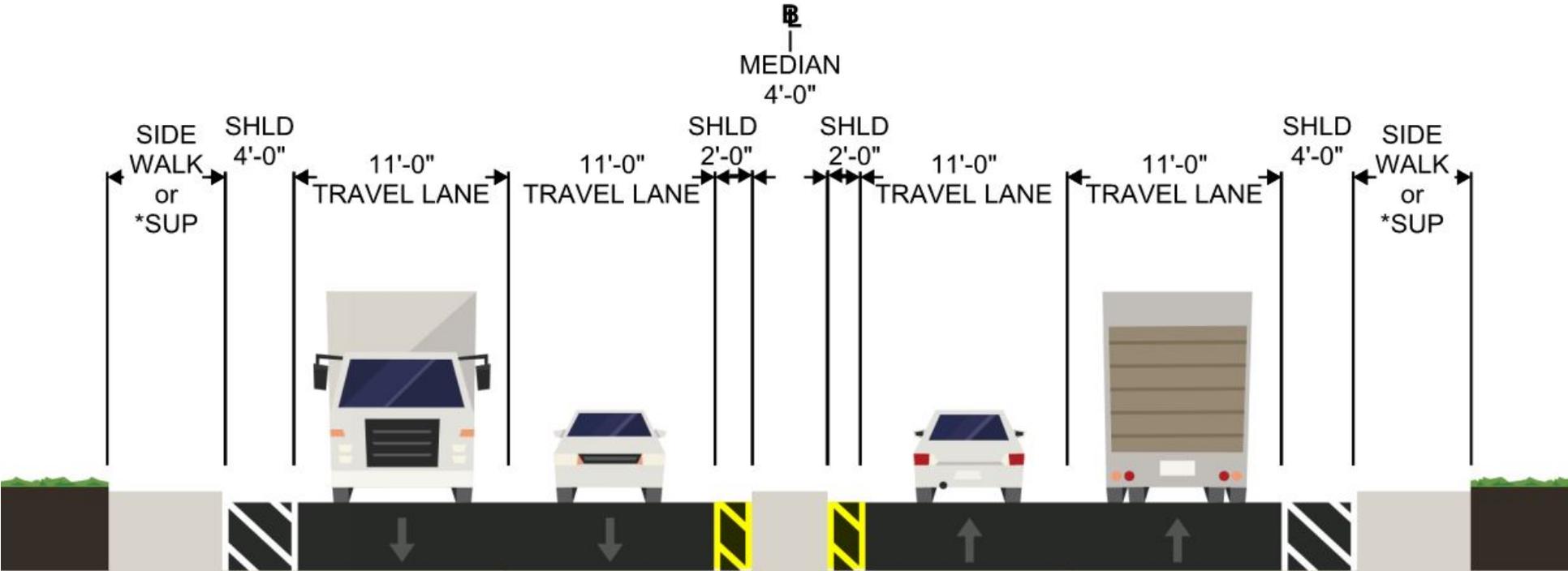
- Notice of Project Change
- Final Environmental Impact Report
- Individual Categorical Exclusion
- ACOE – Section 404 Individual
- MassDEP –Section 401 Water Quality Certificate
- NHESP – Conservation Management
- Conservation Commissions Permit –  
Notice of Intent (NOI)



# Regulatory Approvals/Mitigation

- 42 Acre Conservation Parcel
- 1.3 +/- Acre Wetland Replication Areas
- Stormwater Management – Best Practices

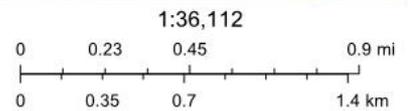
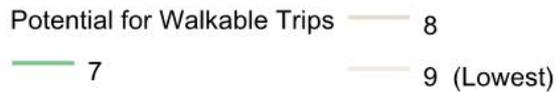
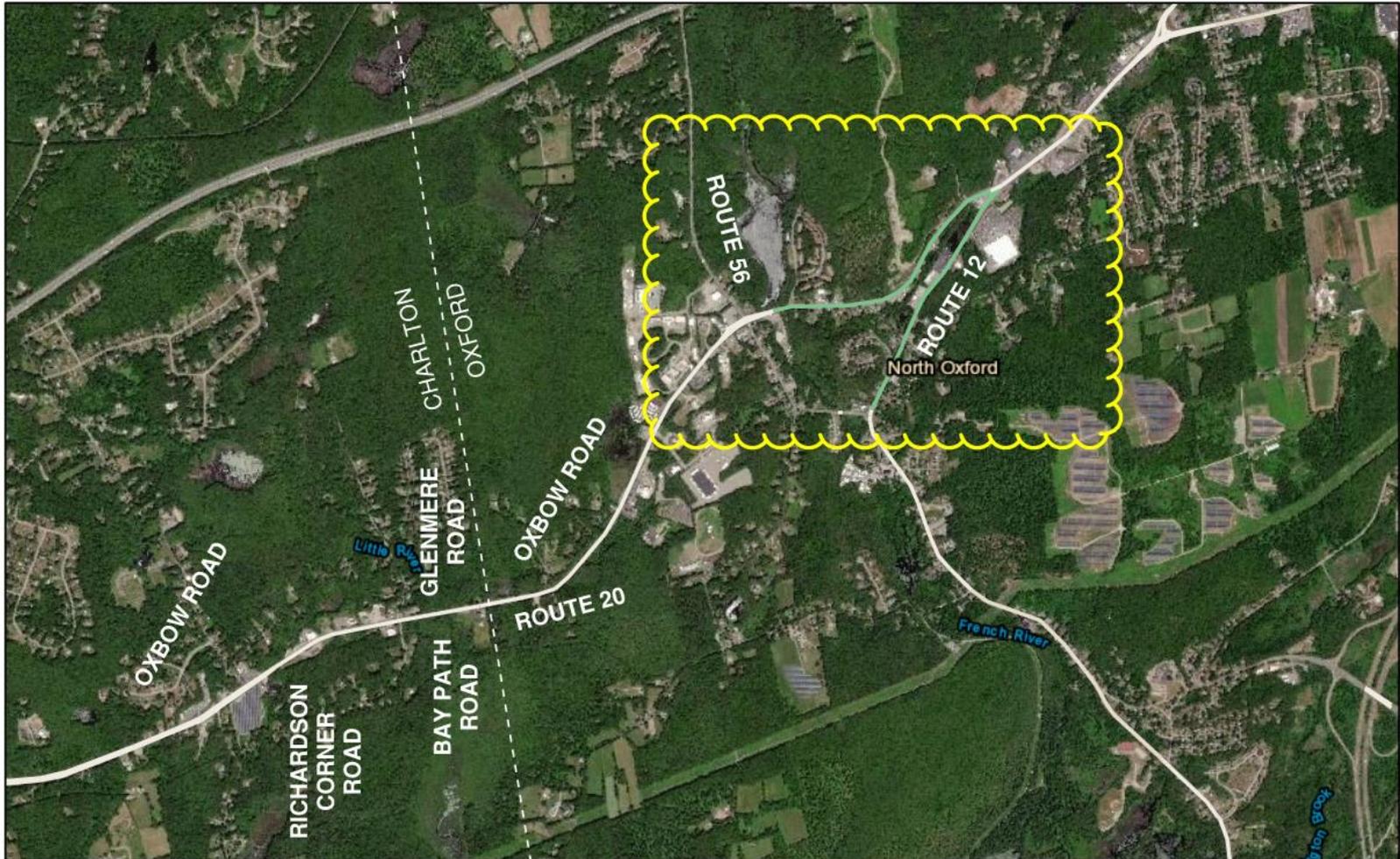




## Proposed Pedestrian/Bicycle Accommodations

- No existing facilities for pedestrians and bicycles
  - Based on Need
  - Sidewalk/Shared-Use Path (SUP) at Rte. 56 intersection and along Rte. 20 from Rte. 56 to Rte.12
  - We Are Seeking Your Input
- \*Shared-Use Path (SUP)

## Potential for Walkable Trips



Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user

## Percentile Bike Trips within RPA

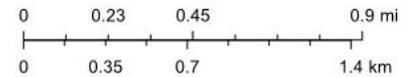


Potential for Everyday Biking Score by RPA

Score Percentile within RPA



1:36,112

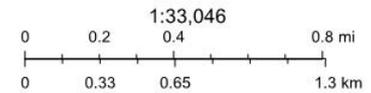
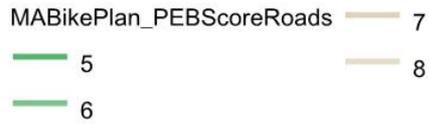
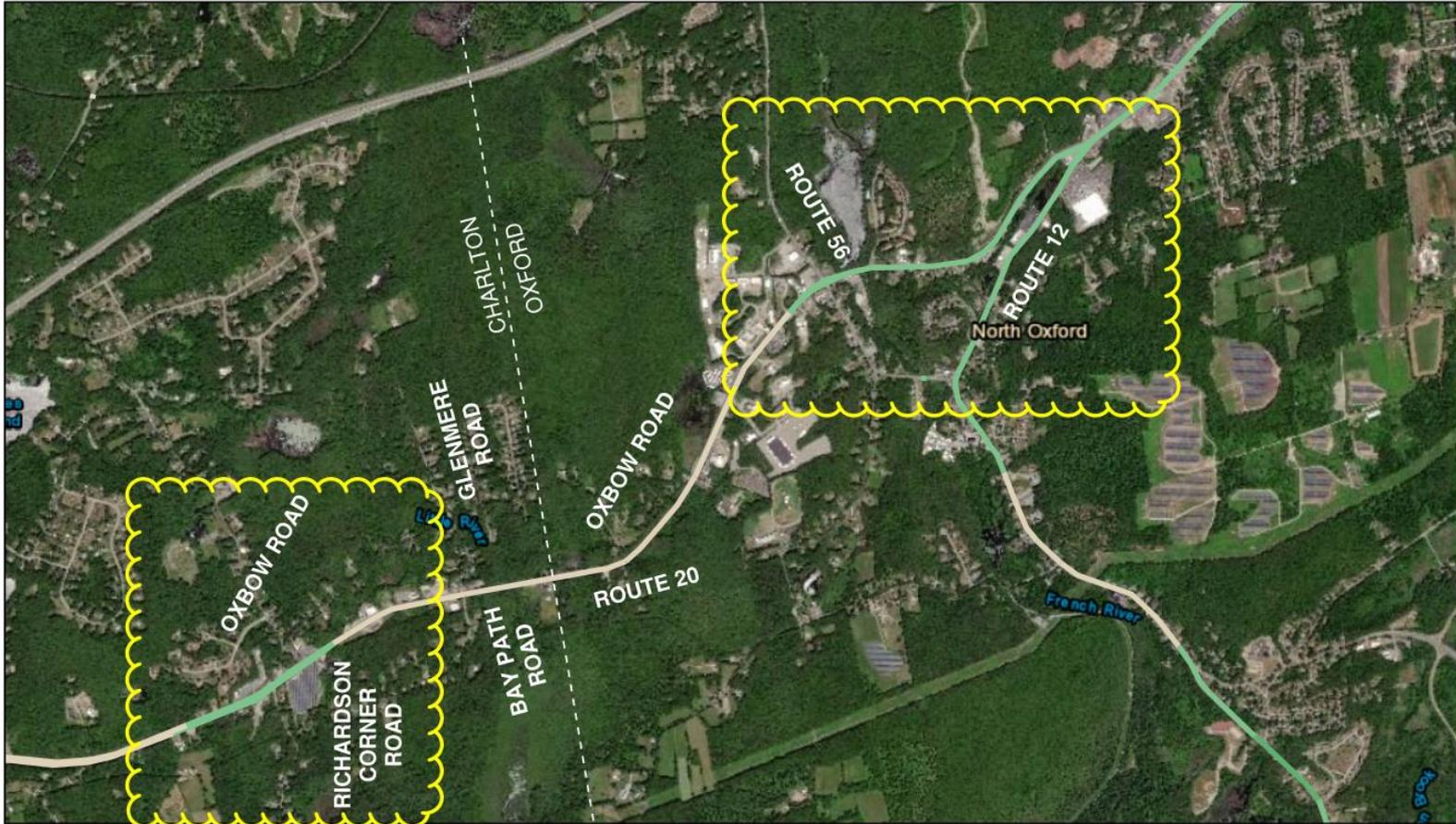


Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user

Web AppBuilder for ArcGIS

USDA FSA, DigitalGlobe, GeoEye, CNES/Airbus DS | Esri, HERE, Garmin, iPC |

## Potential for Everyday Biking



Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community. Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

# Project Update

- Updates to the Design and Plans
- Utility Coordination
- Permitting\*
- Design Public Hearing\*
- Right of Way
- Prepare Procurement Documents

# Project Schedule

- Anticipated Project Milestones
  - Permitting – Fall 2020
  - Design Public Hearing – Fall 2020
  - Advertisement Date – 2021
  - Award – Winter 2021/2022
  - Construction Begins – 2022

# Public Comments, Q&A

Feedback

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[dot.feedback.highway@state.ma.us](mailto:dot.feedback.highway@state.ma.us)

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