

MassDOT Highway Division Design-Build Overview

**ACEC/MA & ACEC/RI Meeting
Four Points by Sheraton Norwood**

July 23, 2019

OVERVIEW

Past successes and challenges

Design-Build delivery decision

Design-Build Projects in Development

Expectations for Preliminary Design Consultant

Expectations for Design-Builder's lead designer

RECENT PROJECT COMPLETIONS

Commonwealth Ave over I-90 Bridge Replacement (ABC)

Fore River Bridge – ACEC/MA Grand Inceptor

Whittier Bridge – ACEC/MA Silver Award

Longfellow Bridge – ACEC/MA Silver Award







Recent Procurements

**Raynham Route 44 over Route 24 Bridge Replacement
Bridge Slide Alternative Technical Concept (ATC)**

**Haverhill I-495 over Merrimack River Bridge
Replacements**

**Design and Environmental Permitting flexibility
Realignment ATC**



Haverhill

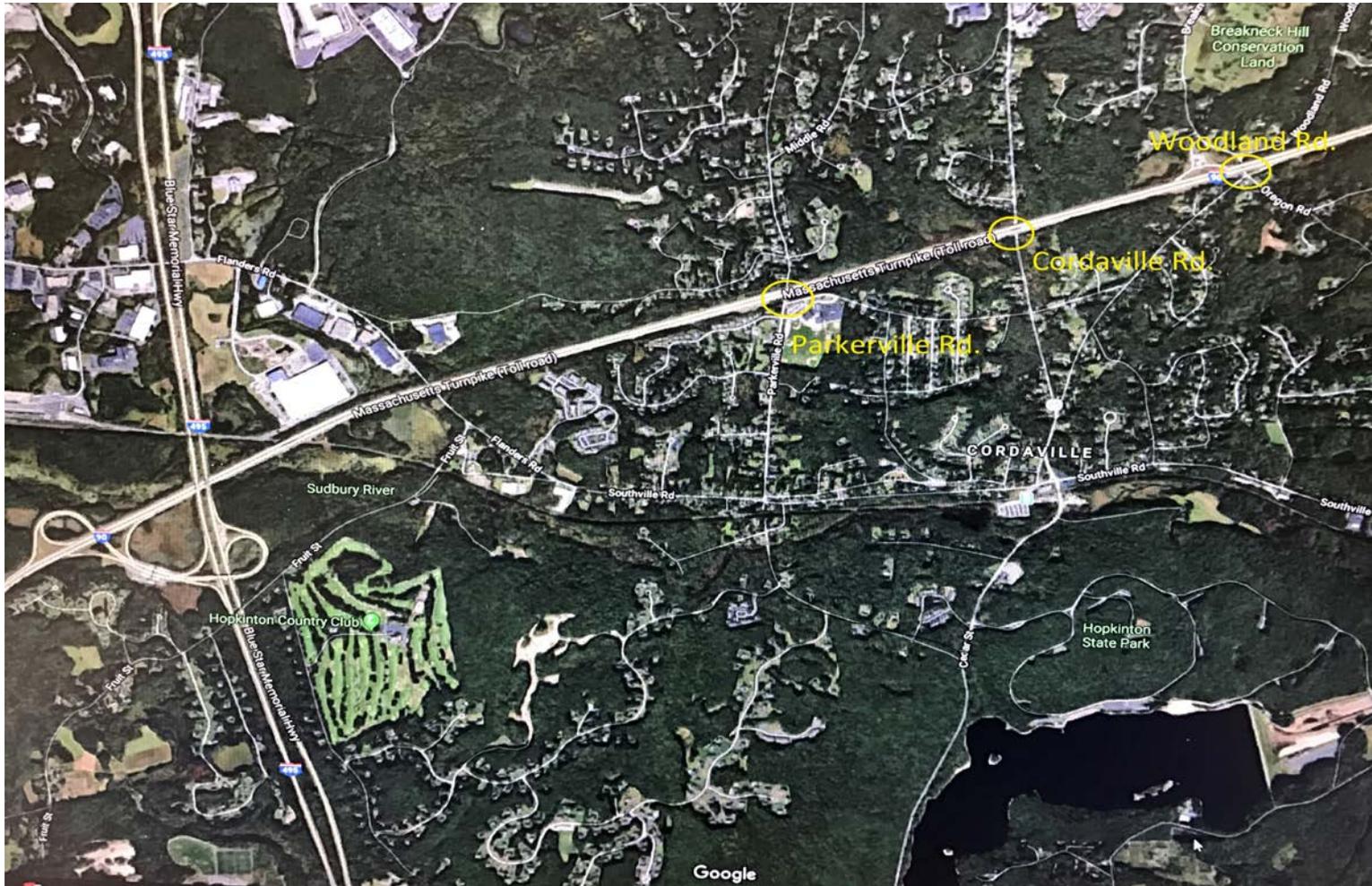


Challenges

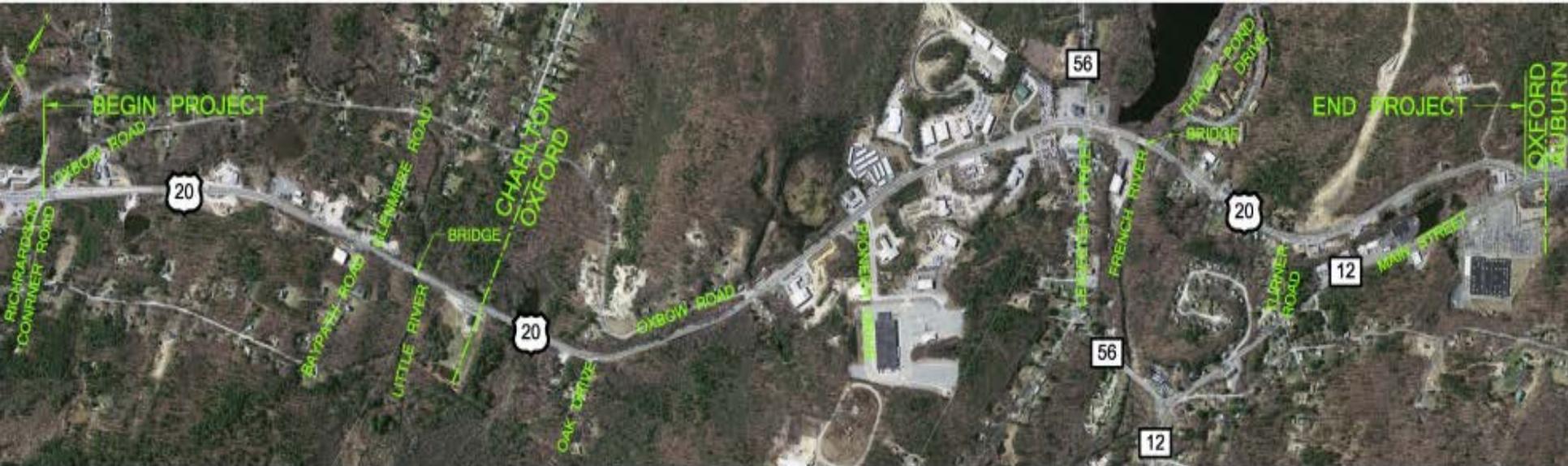
Base Technical Concept Level of Design
Prescriptive vs Performance Requirements
Equal or better determinations for ATCs
Document Control
Design Quality Control
Fabrication Oversight

Design-Build Delivery Decision

Southborough - Project #608335: I-90 over Parkerville, Cordaville & Woodland Roads



Charlton-Oxford - Project # 602659



Route 20 Reconstruction

- Richardson's Corner Road to Route 12
- 3.2 miles

Fall River - Project # 608049

IMPROVING CONNECTIVITY

Route 79/Davol Street
Corridor Study
Fall River, Massachusetts

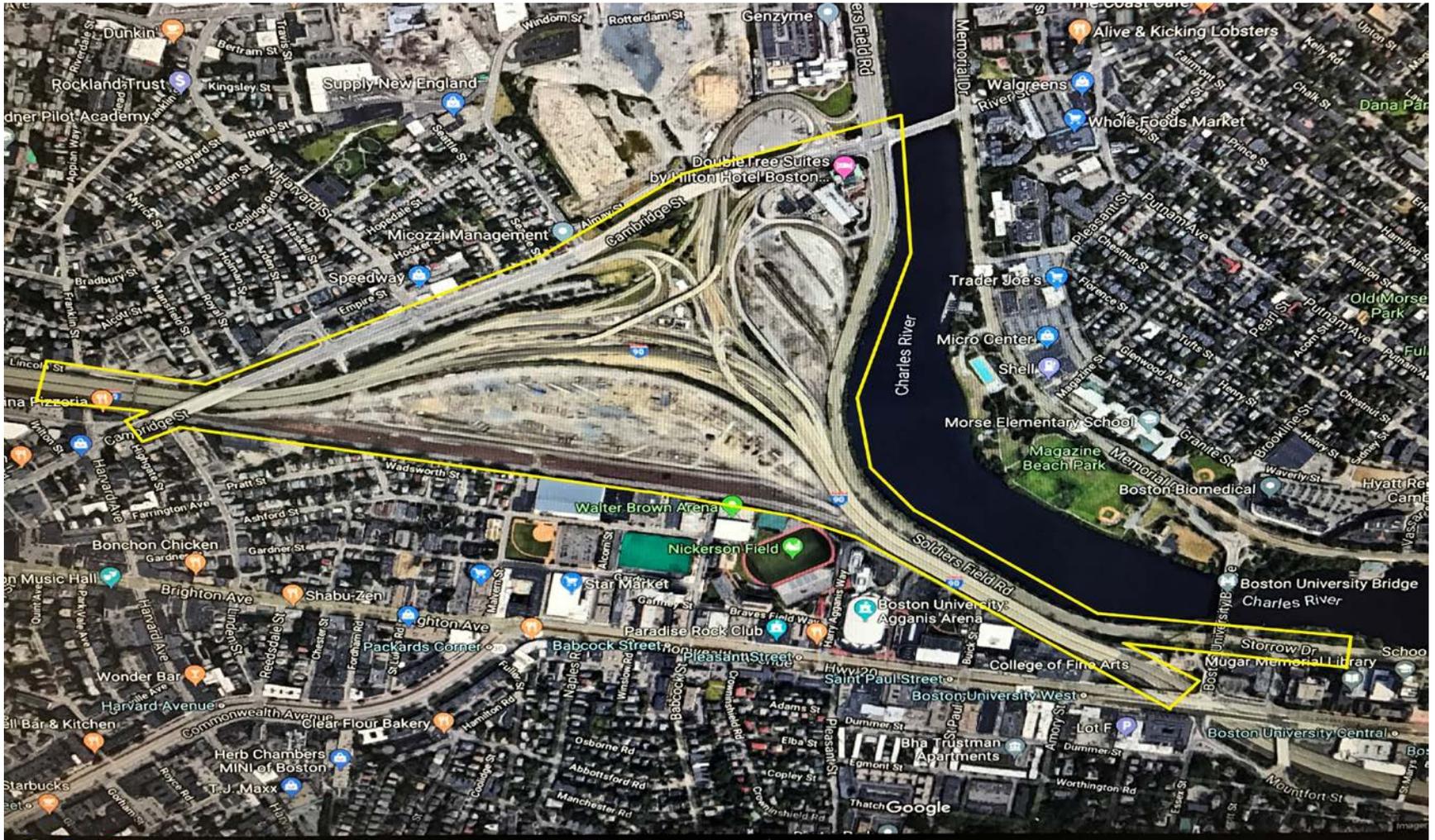


Route 79 / Davol Street Corridor Study

Hopkinton-Westborough-Project # 607977



Allston Intermodal Project



Preliminary Design Consultant

Design-Build mindset

Risk Assessment to determine level of design

Utilize Independent Checks

- **Design/construction intent**
 - **Schedule durations**
 - **Cost**

Team approach

Sharepoint router

Design-Builder's Lead Designer

Innovation

Team Approach

Quality Submissions

Document Control

Construction Submittals

**Timely proposals for Non Conformance
Reports**