

# MassDOT Highway Construction Contract: 124026

**Bridge Replacement, Br. B-18-002  
Route 111 (Massachusetts Avenue) over I-495  
in Boxborough, MA**

*February 28, 2024*

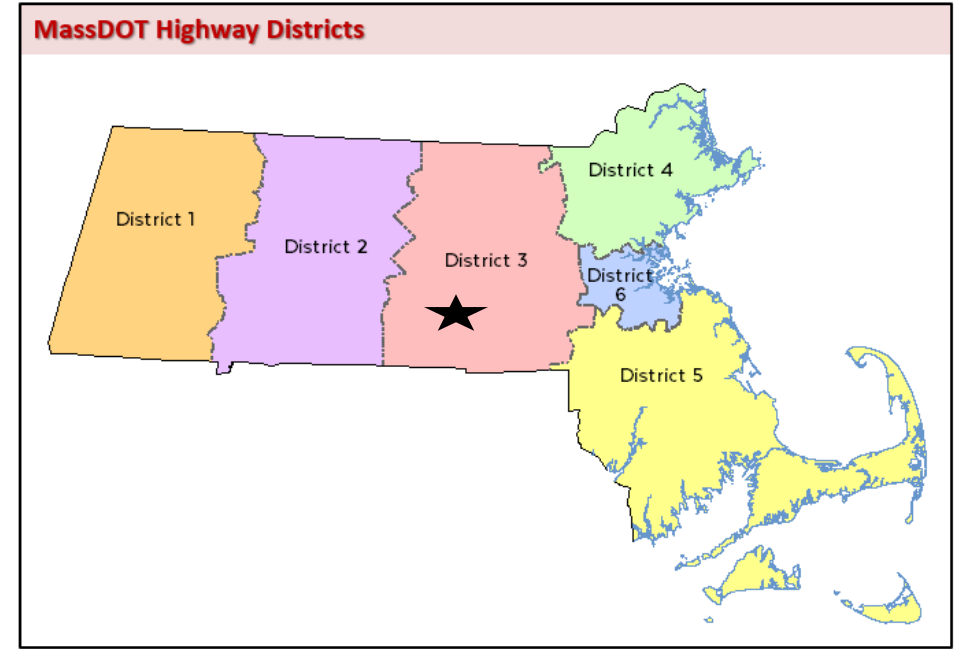


# Table of Contents

3	Project Location
4	Overview
6	Procurement
7	Budget & Request

# Project Location

Route 111 (Massachusetts Avenue) over I-495 in Boxborough



**Bridge  
Replacement  
B-18-002  
Route 111 over  
I - 495**

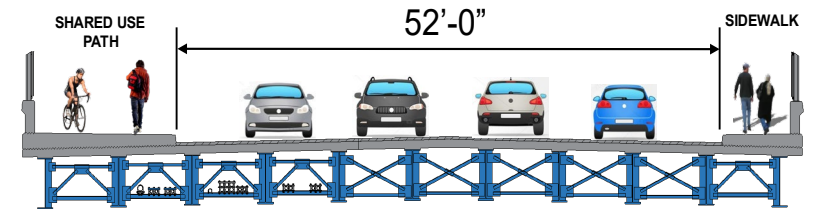


# Overview

## Scope of Services

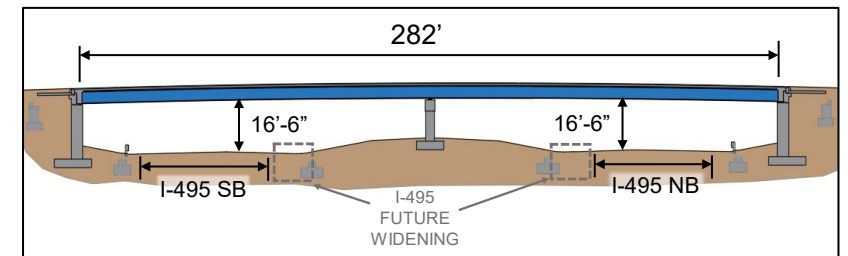
- Replace Structurally Deficient Bridge with New Bridge (75 year service life)
- ✓ Address structural deficiencies by constructing new bridge
- ✓ Satisfy current design requirements; reduce maintenance requirements
- Improve geometry at I-495 crossing
- Improve vertical clearance
- ✓ Satisfy MIN clearance requirements
- Improve horizontal clearance
- ✓ Allow for future widening of I-495
- Provide Facilities for Pedestrians and Cyclists for Future Use
- ✓ Future roadway improvements will connect to facilities on bridge
- Overhead wires to be relocated underground/on to bridge structure
- Construction of portion of water line at Swanson Rd./Codman Hill Rd.

### Proposed Cross Section of Route 111



- Two 12-foot travel lanes in each direction with 4-foot shoulders (52'-0" curb-to-curb)
- 13'-6" Shared Use Path and 6'-6" Sidewalk

### Proposed Cross Section of I-495



- Improved Vertical Clearance (16'-6" Min.)
- Improved Horizontal Clearances (Allow for future widening and accel/decel lanes)

SB: South Bound NB: North Bound **massDOT**  
Massachusetts Department of Transportation

# Overview

## Public Outreach, Permitting, and Construction Management

### Public Outreach:

- April 4, 2023, Virtual Design Public Hearing conducted

### Permits on the project include:

- National Environmental Policy Act (NEPA) – Federal Highway Administration/MassDOT – Programmatic Categorical Exclusion approved by MassDOT on August 30, 2023.
- Project does not impact any wetland resources and is exempt from permitting under the Wetlands Protection Act.
- National Pollution Discharge Elimination System (NPDES) Construction General Permit (CGP)

### Construction Management Approach:

- Design-Build Project
- MassDOT District 3 Construction
- Anticipated Construction is May 2024 to May 2027



# Procurement

- Project Advertised on September 09, 2023
- Engineer’s Estimate was \$25,400,000
- Best Value Price Opening was January 10, 2024

Best Value Calculation					
Boxborough 608009-124026		Shortlisted Teams (Design Builders)			STEP
		ET&L Corp.	MAS Building & Bridge Inc.	SPS New England, Inc.	
Technical Scores		85.44	91.19	88.05	1-Pre-Entered by MassDOT
Price Proposal		\$32,742,540	\$23,665,746.	\$30,042,340.	2-Transferred from BidX
OVERALL VALUE RATING = PRICE PROPOSAL/ TECHNICAL SCORE		383222.6124	259521.2852	341196.3657	3-Calculated by MassDOT (Step2/Step1)
Apparent Best Value Design Builder			↑		

The Price Proposals and Design Build Documents were reviewed by engineers in the Construction, Construction Contracts, Design-Build Sections and Preliminary Design Consultant and appear reasonable and recommend contract award to apparent best value Design Builder.

# Budget and Request

Line Item	Budget
Bid Amount	\$23,665,746.00
Contingencies	\$2,366,724.60
Construction Engineering	\$1,183,287.30
Traffic Police	\$800,000.00
Trainees	\$10,000.00
Total	\$28,025,757.90

- FA – Highway Infrastructure Program (HIPBR) – Bridge
- Programmed Cost in the 2024 Transportation Improvement Program (TIP): \$31.57M

## Request of the MassDOT Board

Staff request that the MassDOT Board authorize the Secretary of the Massachusetts Department of Transportation, or their designee, to award and execute MassDOT Construction Contract 124026: Bridge Replacement Br. B-18-002 Route 111 over I-495 with MAS Building & Bridge, Inc. in the amount of \$23,665,746.00.



Thank You

