

**MassDOT Highway Construction Contract:  
124530**

**Boston Tunnel Lighting Replacement for I-93  
(NB/SB) Ramps (CRC 17G)  
MassDOT Board of Directors**

*March 20, 2024*

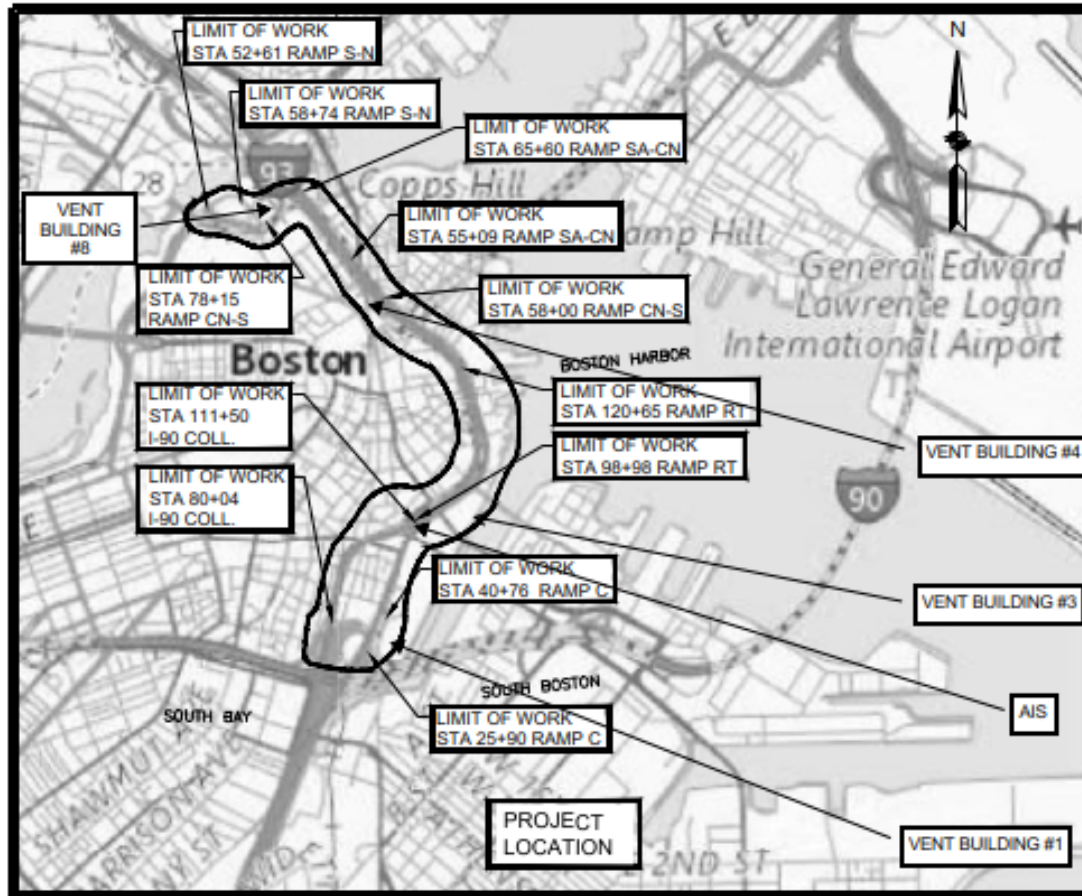


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# Project Location

## Interstate 93 Tunnel Ramps in Boston



I-93 Tunnel Ramps and Vent Buildings supporting the tunnel ramps.

- Ramp A-CN
- Ramp A-CN/R-T
- Ramp C1 & C2
- Ramp CN-S
- Ramp CN-SA
- Ramp DN
- Ramp R-T
- Ramp SA-CN
- Ramp ST-S
- Ramp ST-SACN
- I-90 Collector
- Ramp CS-P
- Ramp CS-SACT
- Ramp R-R
- Ramp R-S
- Ramp SA-CS
- Ramp SA-CT
- Ramp S-N
- Vent Building #1
- Vent Building #3
- Vent Building #4
- Vent Building #8
- AIS

# Overview

## Contract Scope

- Remove existing luminaires and wireways.
- Remove existing wiring within the wireways and raceways.
- Furnish and install new structural supports for tunnel luminaires .
- Furnish and install new energy efficient LED tunnel luminaires.
- Install new electrical raceways and boxes for new lighting system with separate raceways for both emergency and normal power.
- Install tunnel lighting control system.
- Perform tunnel lighting control system calibration.
- Repair and provide all required Fireproofing within the tunnels.

All work will follow the contract plans and specifications per the Manufacturers requirements



# Overview

## Purpose & Need/Traffic Impacts

### Purpose & Need

- The current tunnel lighting system is 20 years old and has been exhibiting corrosion, detached and broken lens clips, and missing channel supports.
- The proposed lighting system will provide long lasting and efficient LEDs, will prevent corrosion, will withstand high pressure water cleaning, and will meet tunnel vibration and ambient temperature testing.



### Traffic Impacts

- Most work will be performed at night with temporary lane closures; the anticipated work window will be 3 to 4 hours on a four-day workweek (Monday thru Thursday).
- Work that does not require roadway access, may be completed during daytime hours (7am to 3:30pm).
- Work to be coordinated with adjacent contracts 122343 (I-90 Tunnel Lighting Replacement) and 114947 (Sumner Tunnel).
- Stand-Down for all work requiring I-90 Westbound access during full closure of the Sumner Tunnel (Contract 114947).

# Procurement and Budget

- Project Advertised November 4, 2023
- Engineer’s Estimate was \$63,031,389.20
- Bid Opening was February 27, 2024
- Two (2) Bids were received:
  - JF White Contracting Co. \$58,326,165.50
  - Dagle Electric Constr. Corp. \$59,335,933.00

Line Item	Budget
Bid Amount	\$58,326,165.50
Contingencies (15%)	\$8,748,924.82
Construction Engineering (5%)	\$2,916,308.28
Traffic Police	\$3,118,000.00
Specialty Services	\$20,000.00
<b>Total</b>	<b>\$73,129,398.60</b>

- This project is funded through a combination of CARM/TRUST & NFA/MHS Funds.
- CARM-Central Artery/Tunnel Project Repair and Maintenance (Trust)
- NFA/MHS-Non-Federal Aid/Metropolitan Highway System

# Request of the MassDOT Board

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- 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 124530 – Boston Tunnel Lighting Replacement for I-93 (NB/SB) Ramps with JF White Contracting Company in the amount of \$58,326,165.50.

Thank You

