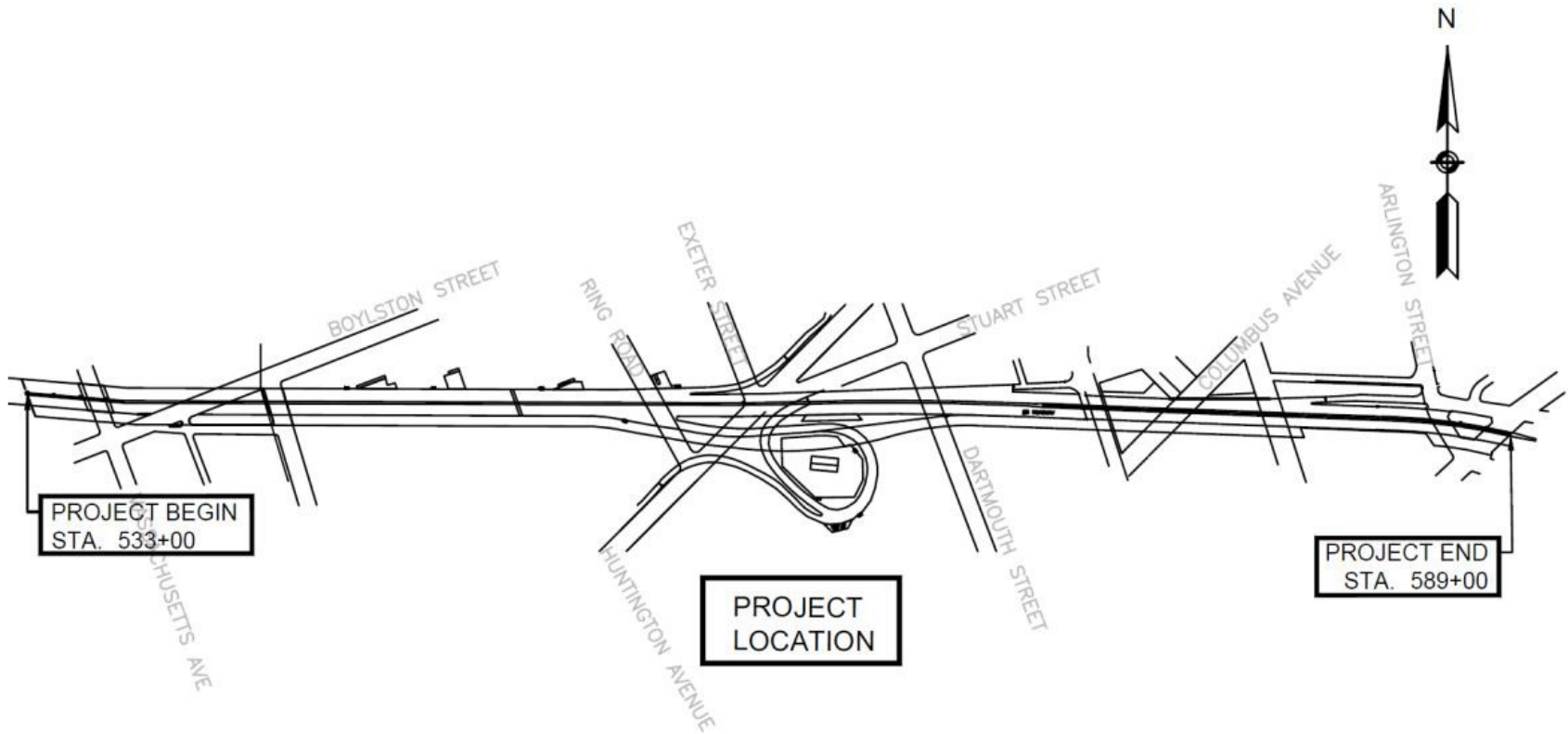




MassDOT Highway Construction Contract: 115045 Lighting Repairs and Improvements in the Prudential Tunnel (I-90)

MassDOT Board Meeting

November 18, 2021



Purpose and Need

The primary purpose of the project is to replace the existing tunnel luminaires in the Prudential Tunnel and Ramps A, B and D as they have passed the end of their useful rated life. The new luminaires will increase safety while incurring significant energy savings. The light fixtures will be fastened to the tunnel walls using a new stainless steel support system.



Typ. East Bound Mainline Tunnel with existing light pipe
11/18/2021



Typ. West Bound Mainline tunnel with existing luminaires

Construction Scope

- Removal and disposal of existing luminaires and structural supports
- Furnish and install new stainless steel structural supports for conduits, junction boxes and tunnel luminaires.
- Repair tunnel walls in areas receiving new supports.
- Install new tunnel luminaires and tunnel lighting control system.
- Construct a new electrical room within Fan Chamber 1.
- Construction Duration is estimated to be approx. 944 calendar days or 31.5 months.
- Work in the tunnel is to be executed between the hours of 10 pm and 4 am.
- Work can only be executed on one tunnel wall of each tunnel but can be executed concurrently in East Bound and West Bound.

Construction Procurement

- Project was advertised on August 26, 2021
- Engineers Estimate was \$32,266,395.70.00
- Bid Opening was on October 26, 2021
- Two (2) Bids were received:

J F White Contracting Co.	\$48,347,722.00
Dagle Electrical Construction Corp.	\$56,744,765.00

- The difference between the low bid and the Engineer's Estimate may be due to COVID-19 uncertainties and increased labor, material and equipment costs associated with the pandemic and economy.

Overall Project Budget

Line Item	Budget
Bid Amount	\$48,347,722.00
Contingencies (10%)	\$4,834,772.20
5% Construction Engineering	\$2,417,386.10
Traffic Police	\$250,000.00
Materials - Other	\$50,000.00
Equipment Rental	\$50,000.00
Specialty Services	\$50,000.00
Total	\$55,999,880.30

The total cost for this construction contract is funded with 100% State Funds.

Proposed Board Vote

VOTED:

To authorize the Secretary of the Massachusetts Department of Transportation, to execute a Contract between MassDOT and JF White Contracting Co., for Lighting Repairs and Improvements in the Prudential Tunnel (I-90) in the total amount of \$55,999,880.30.