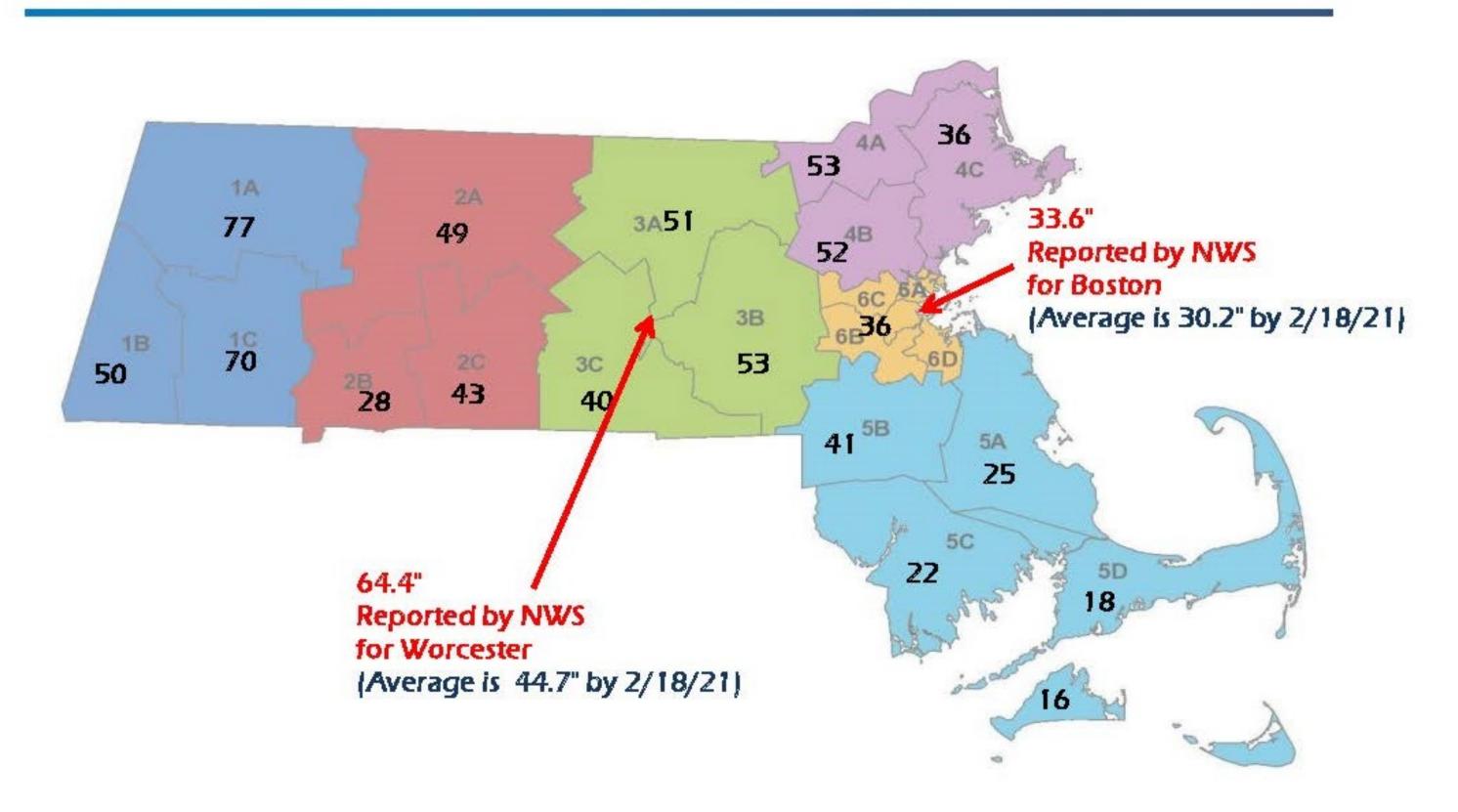


# **Snow & Ice Update**



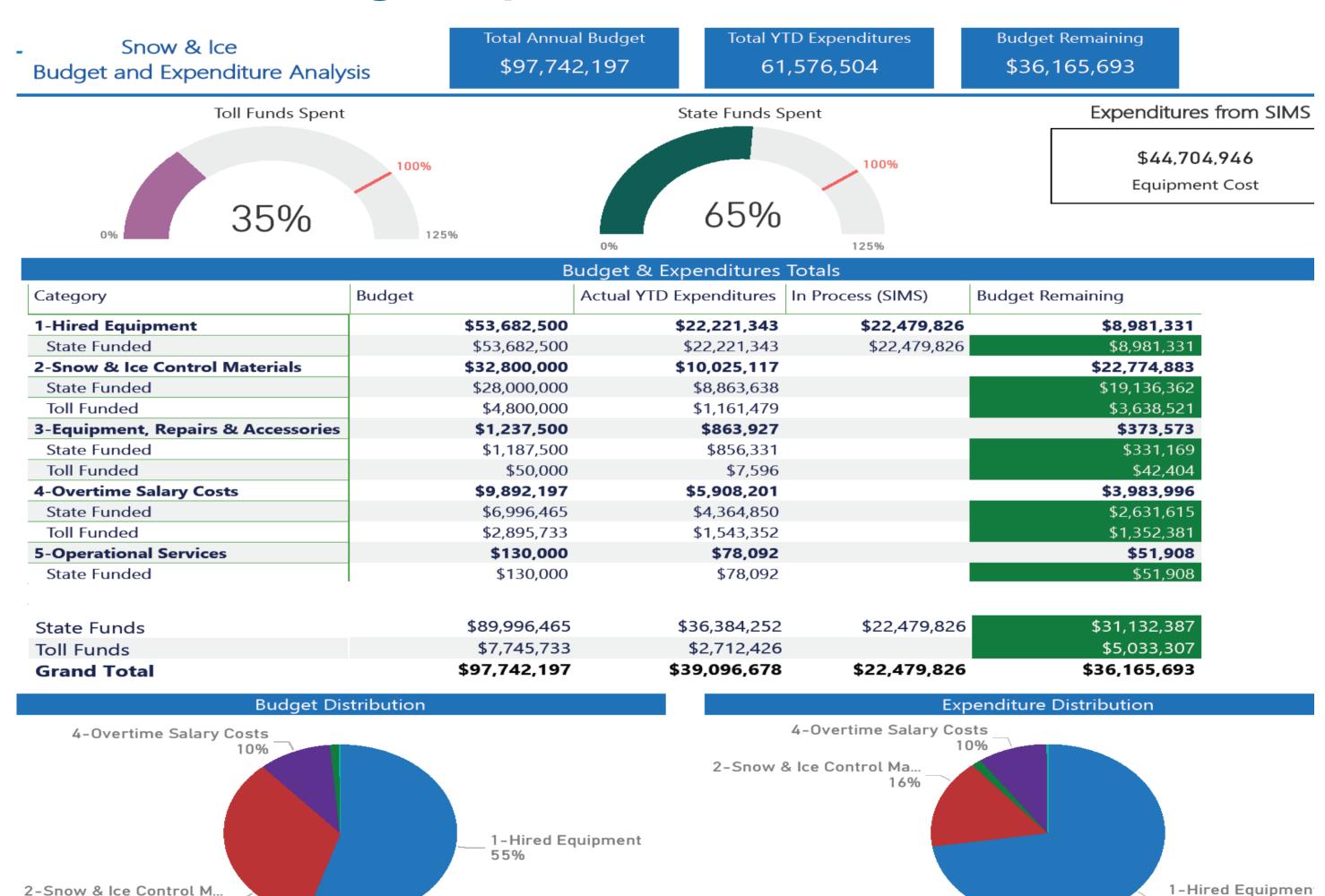
FY21 Snow Fall Amounts by District Sub-Areas (inches) of 2/18/2021 Amounts are area averages reported by MassDOT personnel at depots throughout the season.





# **Snow & Ice Budget Update**

34%



# Staff, Equipment & Technologies

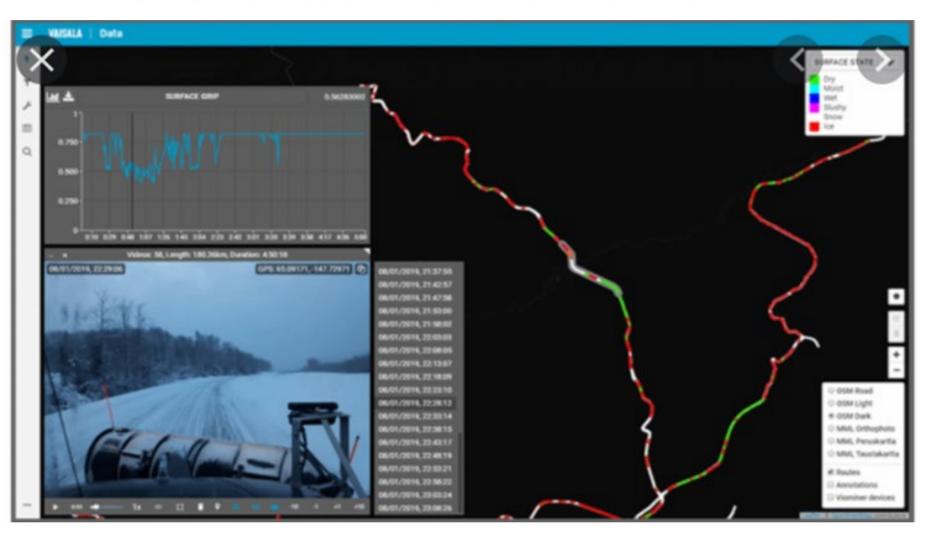
#### Staff and Equipment

850 MassDOT employees (includes seasonal support staff and temporary S&I drivers)

Snow and Ice Control Equipment									
Equipment Type	<u>Hired</u>	<u>State</u>	<u>Total</u>						
Front End Loaders	316	136	452						
Combos (Spreaders with Plows)	1263	256	1519						
Plows	1629	142	1771						
Tow-Plows	0	19	19						
Tankers	47	3	50						
Other	216	20	236						
Totals	3471	576	4047						

#### <u>Technologies</u>

GPS devices on all hired combos.



- 25 new Mobile Road Weather Information Sensors for District Area Supervisors.
  - Monitors road and air temperature, relative humidity, dew/frost point, surface condition and most importantly, grip.





# Sumner/Callahan Vent Building Upgrades

### **Project Goals**

- Upgrade Dated Equipment
  - Improve system reliability and safety
- Extend Service Life
  - Replace with more reliable/efficient equipment
- Provide Backup Power
  - Add generators to power life-safety systems during loss of utility power
- Minimize Disruptive Maintenance
  - New systems will require less frequent repairs



#### February 6

2021

Advertisement Date

#### **February**

2021

18<sup>th</sup> – Public Information Meeting (North End)

24<sup>th</sup> – Public Information

#### Summer

2021

Construction Starts

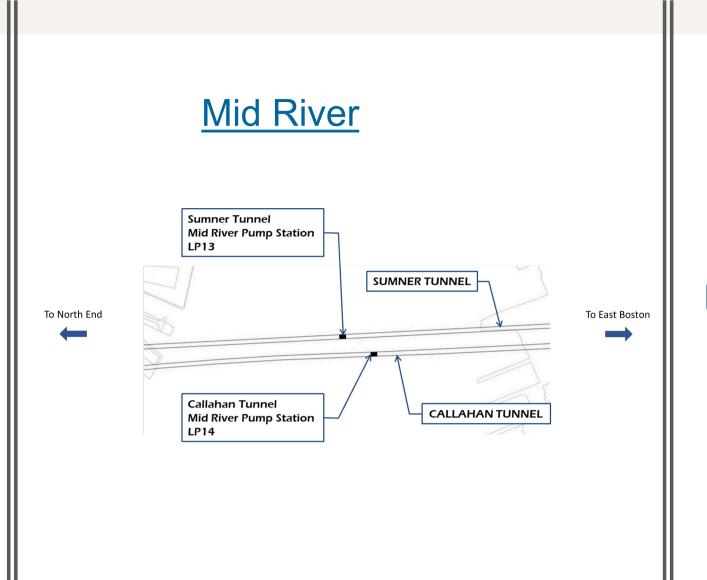
#### Fall

2023

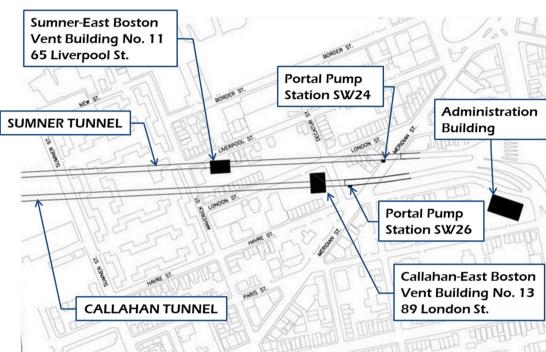
Contract Complete



# Sumner-Boston Vent Building No. 10 308 North St. Portal Pump Station SW25 CALLAHAN TUNNEL Portal Pump Station SW27 Callahan-Boston Vent Building No. 12 201 North St.



#### **East Boston**



# Sumner/Callahan Vent Building Locations



# Sumner/Callahan Vent Building Upgrades

Currently the tunnels operate with regular overnight closures for routine maintenance.

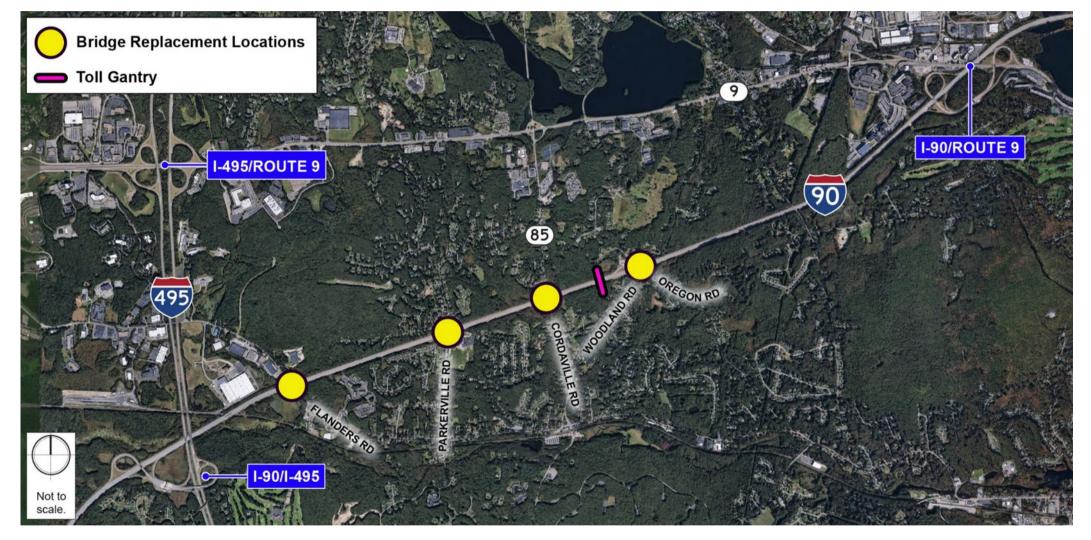
This project will largely utilize these methods

- Traffic Impacts to Tunnels During Construction
  - Nighttime closures
    - Sumner Tunnel 20 overnights
      - Detour route required as with all other maintenance closures
  - Single lane reduction
    - Sumner Tunnel 60 overnights
    - Callahan Tunnel 50 overnights
    - No detour needed as one travel lane will remain open
  - All tunnel closures require coordination with other regional projects
  - All tunnel closures require MassDOT approval
  - Community will be notified in advance



# Acceler-8: Southboro/Westboro I-90 Bridge Replacements

- Replace 8 bridges in 8 weekends during Summer 2021
- 56-hour weekend construction
- Accelerated Bridge Construction using precast components
- Minimize delays to roadway users
- Design / Build JF White
- \$49 million total construction cost
- Real Time Traffic Management Systems
- Robust Public Outreach





# Acceler-8: Southboro/Westboro I-90 Bridge Replacements

#### **Estimated Start Dates and Durations:**

- November 2020 Flanders Rd. Utility Relocation
- January 2021 May 2021 I-90 Median Barrier Replacement
- January 2021 July 2021 Bridge Abutment Repairs
- March 2021 April 2021 Median Crossover Construction
- May 2021 Movable Barrier Trial Run
- June 2021 August 2021 Bridge Replacements
- August 2021 October 2021 I-90 Median Barrier Replacement
- July 2021 November 2021 Final Paving

				56 Hour Work Window					
	MassDOT I-90 Southborough - Westborough Acceler-8 Construction Sequence								
Wknd	Primary Work	Primary	Hwy.	Start	24 hrs per day over Weekend		End		
No.	Location	Operation	Direction	FRI @ 9pm	SAT	SUN	MON @ 5am		
1	Woodland Road	Bridge Replacement	WB	6/18/2021	6/19/2021	6/20/2021	6/21/2021		
2	Cordaville Road	Full Bridge Replacement	WB	6/25/2021	6/26/2021	6/27/2021	6/28/2021		
3	Woodland Road	Bridge Replacement	EB	7/9/2021	7/10/2021	7/11/2021	7/12/2021		
4	Cordaville Road	Full Bridge Replacement	EB	7/16/2021	7/17/2021	7/18/2021	7/19/2021		
5	Parkerville Rd & Flanders Rd	Bridge Replacement	EB	7/23/2021	7/24/2021	7/25/2021	7/26/2021		
6	Woodland Parkerville & Flanders	Waterproof & Pave	EB	7/30/2021	7/31/2021	8/1/2021	8/2/2021		
7	Parkerville Rd & Flanders Rd	Bridge Replacement	WB	8/6/2021	8/7/2021	8/8/2021	8/9/2021		
8	Woodland Parkerville & Flanders	Waterproof & Pave	WB	8/13/2021	8/14/2021	8/15/2021	8/16/2021		