



# MASSDOT FULLY ACCESSIBLE VEHICLE GUIDE

## AN OVERVIEW OF ACCESSIBLE VEHICLE SPECIFICATIONS

October 2024

### INTRODUCTION

The state's Mobility Assistance Program (MAP) and the FTA's Section 5310 Program provide capital funding to transit agencies, municipalities, Councils on Aging, and private non-profits for the purchase of vehicles to be used in the provision of transportation services to older adults and individuals with disabilities of any age.

Through these two programs, MassDOT provides funding for accessible vehicles that meet a set of minimum standards, which are described below. MassDOT pays an 85% share of the cost of the "base vehicle." This refers to all parts of the vehicle required to meet the minimum standards described in this document, but none of the additional optional features. Receiving agencies may elect to purchase vehicles with additional optional features, but these options must be fully paid for by that agency.

MassDOT retains the vehicle title and is the lien holder for the duration of the vehicle's useful life. After this period has elapsed, the agency can work with MassDOT to transfer the title to them in accordance with MassDOT's disposition policy.

Below are type-specific standards for each of MassDOT's accessible vehicles. Please be aware that the listed vehicle costs are just estimates; actual cost will vary depending on the Producer Price Index (PPI) at the time the order is placed.<sup>1</sup>

### TYPES OF VEHICLES

Vehicle brand and configuration are determined by MassDOT during the State's procurement process. Current contract dealers, manufacturers, and vehicle types are listed below.

Vehicle Type	Dealer	Vehicle Model
Type A	Model1	Chrysler Voyager BraunAbility
Type A – Electric (EV)	Model1	Ford E-Transit

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<sup>1</sup> RFR # [BD-23-1 030-QTI 00-0T I 00-81603](#)

Vehicle Type	Dealer	Vehicle Model
<b>Type E</b>	Coach & Equipment	Ford E-350 Cutaway
<b>Type E2a</b>	Coach & Equipment	Ford E-350 Cutaway
<b>Type E2b</b>	Coach & Equipment	Ford E-350 Cutaway
<b>Type Ca</b>	Coach & Equipment	Ford E-450 Cutaway
<b>Type Cb</b>	Coach & Equipment	Ford E-450 Cutaway
<b>Type Db</b> ( <u>NOTE</u> : A Class C CDL (Commercial Driver's License) with a Passenger Endorsement is required for this vehicle type)	Coach & Equipment	Ford E-450 Cutaway
<b>Type Db</b> ( <u>NOTE</u> : A Class C CDL (Commercial Driver's License) with a Passenger Endorsement is required for this vehicle type)	Coach & Equipment	Ford E-450 Cutaway
<b>Type LF</b>	Model1	New England Wheels Frontrunner

## VEHICLE SPECIFICATIONS

Each type of vehicle has a different set of specifications, but certain standards apply across all vehicles:

- "Passenger Capacity" below refers to the maximum number of ambulatory passengers capable of being transported in the vehicle. Wheelchair passengers may take up the space of two or more ambulatory passengers, so a vehicle may be full even though it contains fewer people than its maximum passenger capacity.
- All vehicles must have a rear emergency door.

## OPTIONAL FEATURES

Receiving agencies that wish to purchase additional vehicle features may do so at their own expense, in accordance with the approved RFR. Options that may be upgraded include:

- ITS and communications (automatic vehicle locators, fareboxes, etc.)
- Cameras (for reversing, and interior and exterior for driver and passenger safety)
- Electronic destination signs (front and curbside)
- Collision warning and avoidance system
- Passenger amenities (seating, grab handles, grab rails, etc.)
- Driver amenities (seating, cruise control, etc.)
- Paint scheme/details (base vehicle is white with vinyl striping)
- Additional spare tires
- Bike racks

The costs of optional features range from a few hundred dollars (such as for grab handles/grab rails) to a few thousand dollars (such as for a bike rack).

For a full list of available options and pricing, please contact us using the information below.

## CONTACT INFORMATION

Thank you for your interest in accessible vehicles through MassDOT's Community Transit Grant Program! If you have any questions, please contact:

Rachel Fichtenbaum  
Manager of Grant Programs &  
Mobility Management  
MassDOT Rail & Transit Division  
[Rachel.L.Fichtenbaum@dot.state.ma.us](mailto:Rachel.L.Fichtenbaum@dot.state.ma.us)  
10 Park Plaza, Suite 3720  
Boston, MA 02116  
(857) 368-8584

Stefan Cejic  
Asset Management Coordinator  
MassDOT Rail & Transit Division  
[Stefan.A.Cejic@dot.state.ma.us](mailto:Stefan.A.Cejic@dot.state.ma.us)  
10 Park Plaza, Suite 3720  
Boston, MA 02116  
(857) 368-8691

## TYPE A



Minivan style vehicle with one or two wheelchair positions and manual accessibility ramp. The vehicle seats six ambulatory passengers, four ambulatory passengers and one wheelchair position, or three ambulatory passengers and two wheelchair positions.

**Capacity:** 6-passenger

**Weight:** 6,055 GVWR

**Length:** 17-feet

**Body Design:** Purpose-Built (non-conversion)

**Wheelchair Accommodation:** Two positions max

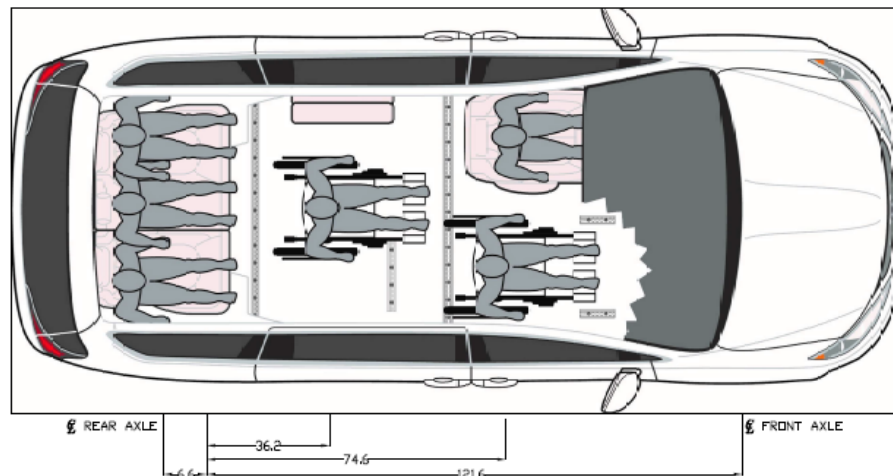
**Driver's License Req.:** Class D

**Useful Life:** 8 Years or 100,000 miles

**Fuel:** Gasoline

**Other Fuel Options:** N/A

	3.7L Gas Option
<b>Total Cost</b>	\$81,089
85% Split	\$68,926
15% Split	\$12,163



## TYPE A – ELECTRIC (EV)



Medium-roof van, single rear wheel, with rear wheelchair lift. The vehicle seats four ambulatory passengers and two wheelchair positions. Comes with a Level 2 wall charger, 120V/240V mobile power cord, and an on-board charger (10.5 kW out/11.3 kW in).

**Capacity:** 6-passenger

**Weight:** 9,500 GVWR

**Length:** 20-feet

**Body Design:** single rear wheel

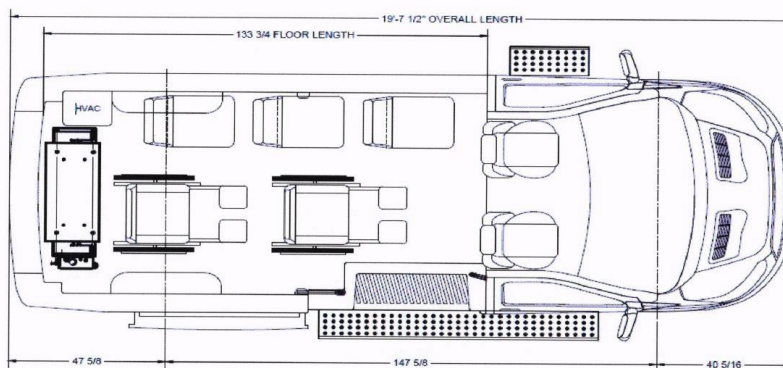
**Wheelchair Accommodation:** Two wheelchair positions

**Driver's License Req.:** Class D

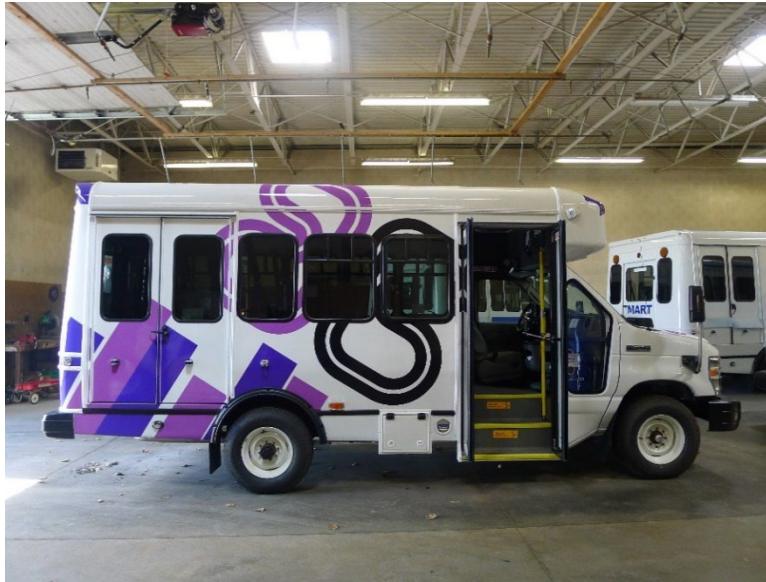
**Useful Life:** 8 Years or 100,000 miles

**Other Fuel Options:** N/A

	EV Option
<b>Total Cost</b>	\$109,040
85% Split	\$92,684
15% Split	\$16,356



## TYPE E



*Note: Skins and lettering depicted in picture are options that carry an additional cost.*

Raised-roof “body-on-chassis cutaway,” single rear wheel, with wheelchair lift. The vehicle seats eight ambulatory passengers, six ambulatory passengers and one wheelchair position, or four ambulatory passengers and two wheelchair positions.

**Capacity:** 8-passenger

**Weight:** 10,050 GVWR

**Length:** 20.5-feet

**Body Design:** Body-on-chassis, single rear wheel

**Wheelchair Accommodation:** Up to three wheelchair positions

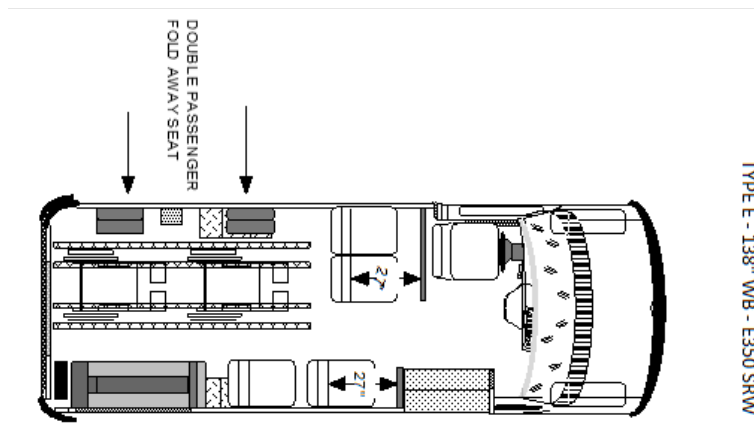
**Driver’s License Req.:** Class D

**Useful Life:** 8 Years or 100,000 miles

**Fuel:** Gasoline

**Other Fuel Options:** N/A

	Gas Option
<b>Total Cost</b>	\$109,352
80% Split	\$92,949
20% Split	\$16,403





## TYPE E2A



*Note: Skins and lettering depicted in picture are options that carry an additional cost.*

Raised-roof “body-on-chassis cutaway,” dual rear wheel, with wheelchair lift. The vehicle seats up to 12 ambulatory passengers, 10 ambulatory passengers and one wheelchair position, eight ambulatory passengers and two wheelchair positions, or three ambulatory passengers and three wheelchair positions.

**Capacity:** 12-passenger

**Weight:** 12,500 GVWR

**Length:** 22-feet, 9-inches

**Body Design:** Body-on-chassis, dual rear wheel

**Wheelchair Accommodation:** Up to four wheelchair positions

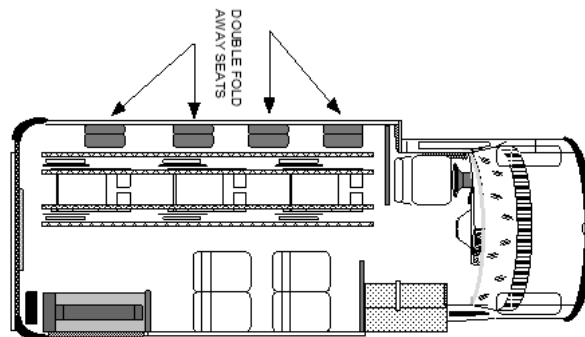
**Driver’s License Req.:** Class D

**Useful Life:** 8 Years or 100,000 miles

**Fuel:** Gasoline

**Other Fuel Options:** CNG and Propane available (RTAs only), if interested please contact MassDOT for pricing information.

	Gas Option
<b>Total Cost</b>	\$120,390
85% Split	\$102,332
15% Split	\$18,058



TYPE E2a - 158" WB - E350

## TYPE E2B



*Note: Please note that the vehicle's exterior is the same as the E2A. Skins and lettering depicted in picture are options that carry an additional cost.*

Raised-roof "body-on-chassis cutaway," dual rear wheel, with wheelchair lift. The vehicle seats up to 12 ambulatory passengers or 10 ambulatory passengers and two wheelchair positions.

**Capacity:** 12-passenger

**Weight:** 12,500 GVWR

**Length:** 22-feet, 9-inches

**Body Design:** Body-on-chassis, dual rear wheel

**Wheelchair Accommodation:** Up to four wheelchair positions

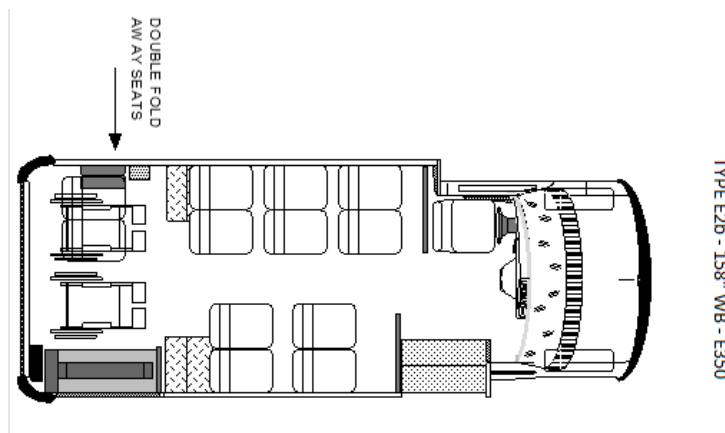
**Driver's License Req.:** Class D

**Useful Life:** 8 Years or 100,000 miles

**Fuel:** Gasoline

**Other Fuel Options:** CNG and Propane available (RTAs only), if interested please contact MassDOT for pricing information.

	Gas Option
<b>Total Cost</b>	\$114,510
85% Split	\$97,334
15% Split	\$17,176





## TYPE CA



*Note: Skins and lettering depicted in picture are options that carry an additional cost.*

Raised-roof “body-on-chassis cutaway,” dual rear wheel, with wheelchair lift. The vehicle seats up to 14 ambulatory passengers, 12 ambulatory passengers and two wheelchair positions, 10 ambulatory passengers and three wheelchair positions, or six ambulatory passengers and four wheelchair positions.

**Capacity:** 14-passenger

**Weight:** 14,500 GVWR

**Length:** 23-feet, 6-inches

**Body Design:** Minibus design

**Wheelchair Accommodation:** Up to five wheelchair positions

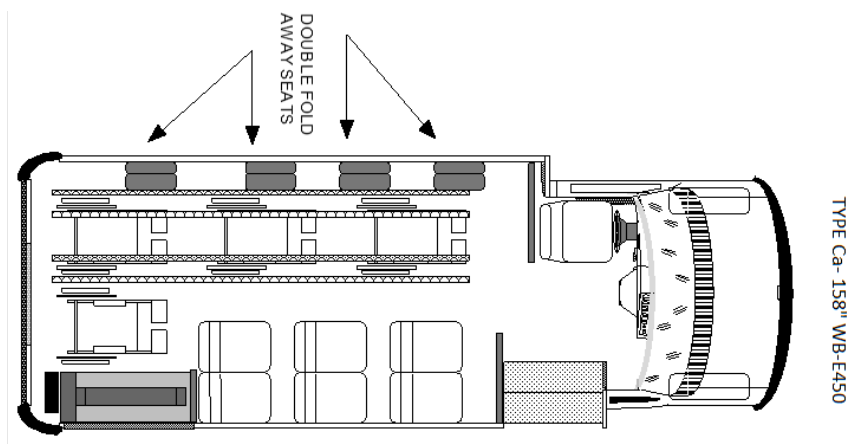
**Driver’s License Req.:** Class D

**Useful Life:** 8 Years or 150,000 miles

**Fuel:** Gasoline

**Other Fuel Options:** CNG and Propane available (RTAs only), if interested please contact MassDOT for pricing information.

	Gas Option
<b>Total Cost</b>	\$124,826
85% Split	\$106,102
15% Split	\$18,724



## TYPE CB



*Note: Please note that the vehicle's exterior is the same as the CA. Skins and lettering depicted in picture are options that carry an additional cost.*

Raised-roof "body-on-chassis cutaway," dual rear wheel, with wheelchair lift. The vehicle seats up to 14 ambulatory passengers, or 12 ambulatory passengers and two wheelchair positions.

**Capacity:** 14-passenger

**Weight:** 14,500 GVWR

**Length:** 23-feet, 6-inches

**Body Design:** Minibus design

**Wheelchair Accommodation:** Up to five wheelchair positions

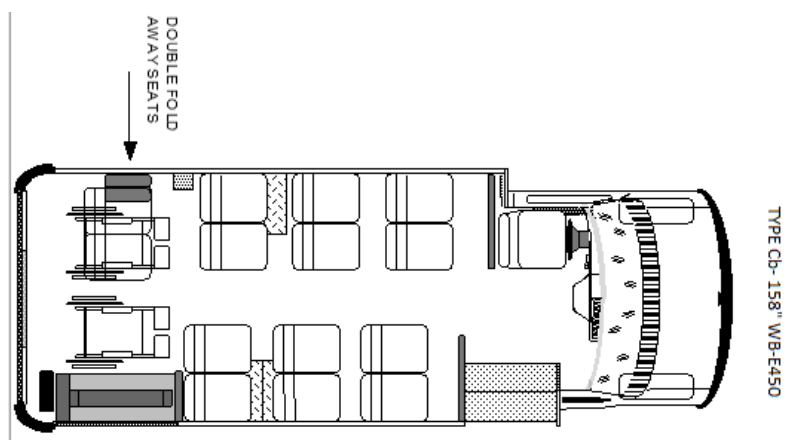
**Driver's License Req.:** Class D

**Useful Life:** 8 Years or 150,000 miles

**Fuel:** Gasoline

**Other Fuel Options:** CNG and Propane available (RTAs only), if interested please contact MassDOT for pricing information.

	Gas Option
<b>Total Cost</b>	\$117,089
85% Split	\$99,526
15% Split	\$17,563



## TYPE DA



Raised-roof “body-on-chassis cutaway,” dual rear wheel, with wheelchair lift. The vehicle seats up to 16 ambulatory passengers and two wheelchair positions, 14 ambulatory passengers and three wheelchair positions, or 10 ambulatory passengers and four wheelchair positions.

**Capacity:** 16-passenger

**Weight:** 14,500 GVWR

**Length:** 25-feet

**Body Design:** Minibus design

**Wheelchair Accommodation:** Up to six wheelchair positions

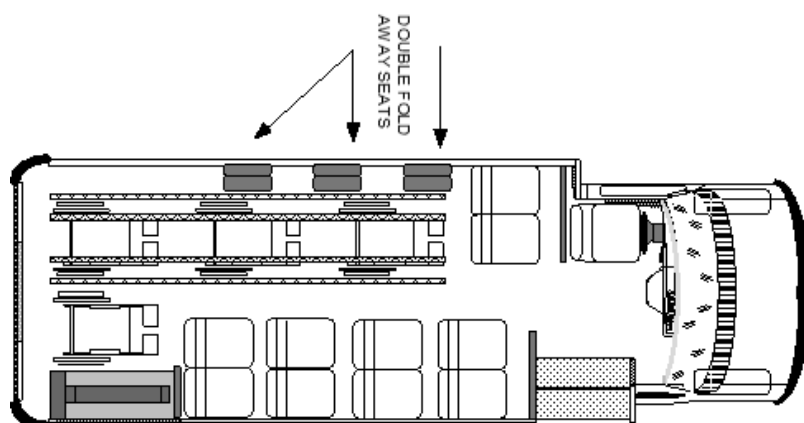
**Driver’s License Req.:** Commercial Driver’s License (CDL) with Passenger Endorsement

**Useful Life:** 10 Years or 150,000 miles

**Fuel:** Gasoline

**Other Fuel Options:** CNG and Propane available (RTAs only), if interested please contact MassDOT for pricing information.

	Gas Option
<b>Total Cost</b>	\$127,921
85% Split	\$108,733
15% Split	\$19,188



TYPE Da - 176" WB-E450

## TYPE DB



*Note: Please note that the vehicle's exterior is the same as the DA*

Raised-roof "body-on-chassis cutaway," dual rear wheel, with wheelchair lift. The vehicle seats up to 16 ambulatory passengers and two wheelchair positions.

**Capacity:** 16-passenger

**Weight:** 14,500 GVWR

**Length:** 25-feet

**Body Design:** Minibus design

**Wheelchair Accommodation:** Up to six wheelchair positions

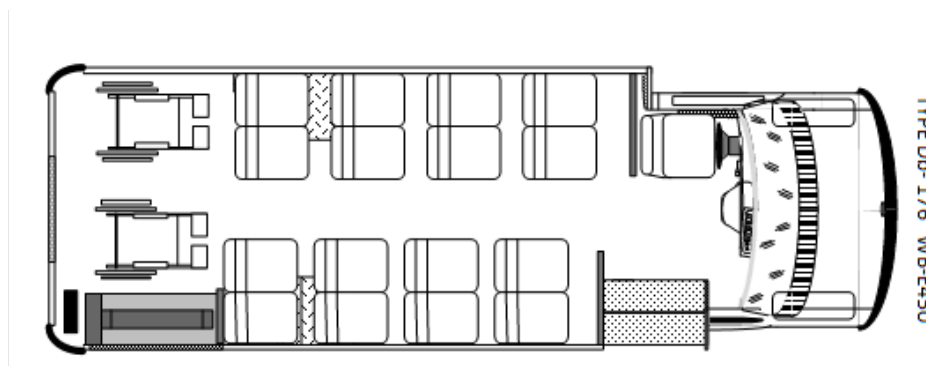
**Driver's License Req.:** Commercial Driver's License (CDL) with Passenger Endorsement

**Useful Life:** 10 Years or 150,000 miles

**Fuel:** Gasoline

**Other Fuel Options:** CNG and Propane available (RTAs only), if interested please contact MassDOT for pricing information.

	Gas Option
<b>Total Cost</b>	\$119,668
85% Split	\$101,718
15% Split	\$17,950



## TYPE LF (LOW FLOOR)



Raised-roof “body-on-chassis cutaway,” single rear wheel with manual accessibility ramp. The vehicle seats up to 14 ambulatory passengers and has 2 wheelchair positions.

**Capacity:** 14-passenger

**Weight:** 9,350 GVWR

**Length:** 23 feet

**Body Design:** Minibus design

**Wheelchair Accommodation:** Two wheelchair positions

**Driver's License Req.:** Class D

**Useful Life:** 8 Years or 150,000 miles

**Fuel:** Gasoline

**Other Fuel Options:** N/A

	Gas Option
<b>Total Cost</b>	<b>\$192,558</b>
85% Split	\$163,674
15% Split	\$28,884

