

**BOSTON TRANSPORTATION DEPARTMENT**  
**SPECIFICATION FOR AN ACCESSIBLE PEDESTRIAN PUSHBUTTON (APS)**

February 23, 2021

**General**

The APS shall consist of a vandal resistant ADA compliant pedestrian pushbutton with the following features:

- Vibro-tactile indication that walk is on
- Pushbutton locator tone
- Optional speech message for walk indication.
- A Touchless Actuation Feature
- A speech pushbutton information message.
- Mounting Adapter approved by BTM.
- Programming of custom audio messages, configuration settings and firmware updates shall be provided wirelessly via Bluetooth using Windows or iOS.

The APS shall be programmable to emit audible sounds or voice message during pedestrian cycles. Sound shall be emitted from a weatherproof speaker from behind the APS unit. A separate system control unit is required at each button. A control unit which has multiple buttons will not be accepted. The pushbutton shall be connected to the control unit via a three conductor cable for data, power and ground. All features shall be compliant with the MUTCD. The unit shall allow use of a Smartphone (IOS or Android) App to activate the pushbutton using Bluetooth wireless technology.

**Features**

The APS shall include a power supply and control unit which installs in the pedestrian walk housing. The pushbutton activation shall trigger a latching LED, sound and vibrotactile bounce. A locator tone with a nominal duration of 0.15 seconds repeated at 1 second intervals shall be provided which automatically adjusts to ambient background noise. The button shall vibrate and a tone or voice message shall be provided during the walk display as indicated on plans or as directed by the BTM engineer. The sound shall automatically adjust to ambient background noise. Sounds shall have independent settings for minimum and maximum volume. The touchless feature shall utilize radar detection to activate the pushbutton via movement within 1-4 inches of the unit. A 5 by 7 inch informational sign shall be provided.

Legend on the pedestrian sign shall be per MUTCD R10-3 and shall include the message in Braille. An arrow(s) shall be provided to be faced in the direction of the pedestrian crossing. The arrow(s) shall match the arrow(s) on the pushbutton. The unit shall be designed to operate at temperature from minus 25 degrees F to 165F.

### **Training**

For orders of 8 or more APS units, the supplier shall provide 8 hours of training at a location to be provided by BTD. The supplier shall submit a syllabus to the BTD engineer for approval prior to the training.

### **Service Information and Warranty**

Service information shall be furnished to Boston Transportation Department consisting of operating instructions, schematics, parts locators, parts lists and trouble shooting guide. Two copies shall be supplied with each order.

Each unit shall be warranted to be free from defects in material and workmanship for a period of at least 3 years from the date of installation.