

BOSTON TRANSPORTATION DEPARTMENT
Specification for Speed Display Sign System

May 5, 2016

The Speed Display Sign System shall include a “YOUR SPEED” sign with an amber LED speed display with 15 inch high digits and corresponding R2-1 speed limit sign mounted on BTD standard pole/pedestal base to be installed to the side of the roadway. Sign shall be mounted a minimum of 7’ from grade to bottom of sign. The sign shall comply with MUTCD requirements. A traffic analysis feature shall be included to collect and store speed data sorted by time/date. Speed display shall be accurate within one (1) MPH of actual speed.

Remote sign configuration software shall be included to allow setup of the sign and download of speed data to a laptop to be provided by the user via a Blue Tooth wireless connection. The downloaded data shall include raw data and an Excel report which includes number of vehicles over a date range as well as the average speed, 85th percentile speed, posted speed, percent of vehicles at or below the posted speed as well as percent of vehicles at up to 5 MPH, 10 MPH, and 15 MPH over the posted speed. Speed data shall be recorded as the vehicle passes the speed display sign. Format of the reports generated shall be submitted to the BTD Engineer for approval.

The display shall blank out at 15 MPH over the posted speed.

The system shall display optional “SLOW DOWN” and “Violation Alert” messages at user programmed speeds.

The system shall be designed to operate from a 120VAC power source and shall include an electric meter socket and a circuit breaker of appropriate rating.

The system shall be designed to operate over a temperature range from -30F to + 165F.

Wiring diagrams and manuals shall be supplied for all equipment installed as part of the Speed display sign. Documentation shall involve instructions for set up and troubleshooting of all components in the system.

The speed display sign shall be warranted by its supplier for three (3) years from the date of installation except for the LED panel which shall be warranted for five (5) years.

Training sessions shall be conducted by the supplier in the setup and troubleshooting of the system. Four (4) hours of training shall be provided during periods to be approved by the Boston Transportation Department Engineer.