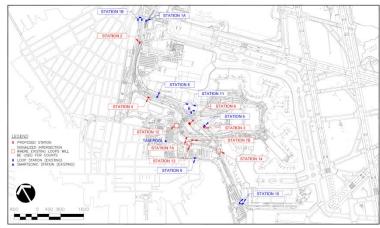# Logan International Airport
Automated Traffic Monitoring System
Operations and Maintenance
Massachusetts Port Authority

TrafInfo Communications, Inc. has been under contract by the Massachusetts Port Authority (Massport) since 2001 to provide operations and maintenance of their Automatic Traffic Monitoring System (ATMS) equipment on the Logan International Airport terminal area roadways.

The Logan ATMS contract includes several loop-based traffic detectors, micro-loop, side-fire microwave sensors, and wireless sensors on the terminal area roadways. These detectors and sensors allow Massport to monitor the traffic patterns on roads into and out of the airport.

TrafInfo's responsibility includes operations of the Logan ATMS stations, including daily polling of the detector stations. It also includes the maintenance of the stations including preventive maintenance, annual inspection and calibration, periodic testing of loop sensitivity and splicing, maintenance of sensors, cabinets and pull boxes, as well as system and software upgrades. As part of this contract, TrafInfo is utilizing their proprietary wireless internet-based telemetry solution to download 24-hour data from the detector stations using the Trafmate™ wireless transceiver. The 24-hour data are downloaded to TrafInfo's internet server where the data resides until downloaded using a TCP/IP based client software.

TrafInfo also prepared the ATMS Master Plan in 2006 which proposed several additional traffic monitoring stations to enable Massport to get a more complete understanding of the traffic volumes and patterns into/out of and within the airport. A unique recommendation of the Master Plan was to use the loops at the existing signalized intersections for collecting traffic counts. The recommendations included side-fire microwave radar sensors as well as the wireless sensors and traditional inductive loop detectors. TrafInfo assisted Massport in the preparation of the plans, specifications and estimate, contract bid evaluation, and review of shop drawings. TrafInfo was responsible for inspection and acceptance testing of field devices.