
Route 9 Traffic Signal Coordination Westborough, MA

Duration: 2012-2013
Project Fee: \$20,000
Firm Fee: \$15,000
Role: Sub-consultant



TrafInfo Communications, Inc. (TrafInfo) was responsible for the preparation of the traffic signal plans to coordinate two existing traffic signals along Route 9 at Otis Street and at Indian Meadows Road in the Town of Westborough, MA.

TrafInfo was responsible developing the traffic signal coordination plans and the time-space diagrams. TrafInfo compiled the necessary information to be submitted to MassDOT in accordance with the Traffic Signal Regulations Package and the MassDOT Highway Access Permit application.

The signal coordination was achieved through GPS receivers mounted on each signal cabinet to keep the time on the local controllers in sync.

In addition to signal coordination, TrafInfo also designed an upgrade of the detection system at the intersection of Route 9 and Otis Street. This intersection had video detection system. However, MassDOT was concerned about the accuracy of the detection as this intersection had a strain pole and span wire signal support with the video cameras mounted on the strain poles. The angle of the camera views were resulting in occlusion of the turn lanes which was resulting in sub-optimal traffic operations at the intersections. TrafInfo design the traffic signal system with inductive loops for the turn lanes while retaining the video detection for the mainline through lanes.

TrafInfo was responsible for the review of shop drawings, provide advice during construction as well as participate with MassDOT in the final signal inspection and certification.