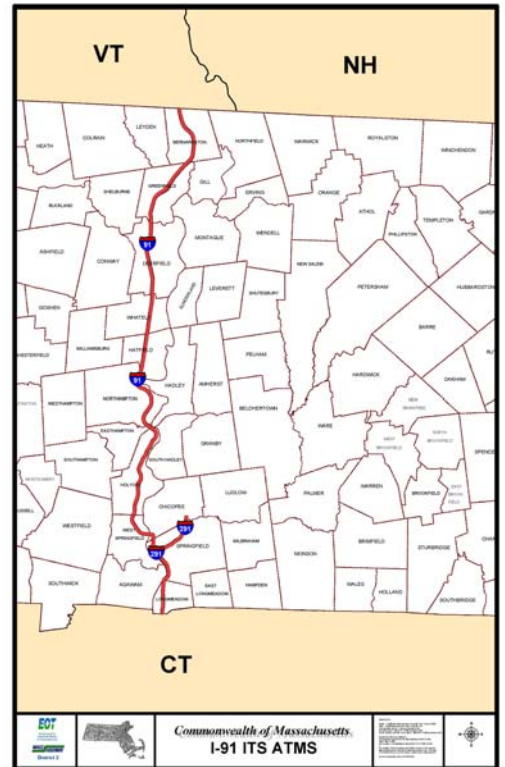


## MASSACHUSETTS HIGHWAY DEPARTMENT I-91 ITS PROJECT

The Massachusetts Highway Department (MassHighway) initiated a project to design and deploy a communications infrastructure and Intelligent Transportation System (ITS) in the Western Massachusetts region as part of the Commonwealth's transportation system. MassHighway, working with Jacobs Eng., developed this Design Build procurement in accordance with the 2006 MassHighway Design Build Procurement Guidelines. A project Notice to Proceed was issued to the Design Build team led by Adesta LLC on September 3, 2008. The project has a 28 month schedule duration.

Project elements include:

- ITS field devices (33 CCTV, 17 Variable Message Signs) to be deployed along Interstate Routes I-91 and I-291,
- A fiber-optic communications network connecting the field devices to the District Traffic Operations Center (DTC) in MassHighway District 2 Headquarters, and to the Statewide Traffic Operations Center (TOC) in Boston,
- I-91 camera monitoring equipment in the State Police facilities in Springfield, Northampton and Shelburne,
- The development of additional capacity to address the needs of regional stakeholders via the installation of 4 empty conduits within the communications network, and
- Communications shared resource infrastructure to support future private telecommunications initiatives.



MassHighway employed the FHWA required Systems Engineering Approach to develop the Conceptual ITS and Communications Plans, Concept of Operations, Functional Requirements, Project Architecture, Configuration Management Plan, Integration Plan and related documents within this project.

### Shared Resource Policy Development

Recognizing that MassHighway is developing the I-91 corridor as a shared resource program to promote broadband communications in Western Massachusetts by constructing the outside plant (conduits, handholds, splice boxes, and manholes) for a shared resource fiber optic network, District 2 has been tasked with crafting a shared resources process and policy. This work is to establish statewide policies and guidelines and then apply these to the I-91 corridor.

This effort is organized around the following tasks:

- Working with the Department of Capital Asset Management to develop a process for leasing MassHighway conduit and dark fiber.
- Analyzing existing shared resource program initiatives and precedents both in the Commonwealth and nationwide to develop a Wireline Telecommunications Accommodation Policy for MassHighway Right of Way.
- Collaborating within MassHighway, and with EOT and FHWA to gain policy refinement, acceptance, and implementation.

The policy developed in this effort will be in accordance with MassHighway's utility accommodation policy, FHWA policy and procedures, MassHighway's state disposition process, the 1996 Telecommunications Act and pertinent Massachusetts and federal laws identified and the I-91 ITS Project Shared Resources Task Force.