



## Boston Central Artery/Tunnel Electrical Distribution & Substation Automation System

**Client: Massachusetts Highway Department & Massachusetts Turnpike Authority**

**Location: Boston, MA**



### System Features

- DYNAC® Software •
- Decision Support Management •
- Access Control •
- Automatic Incident Detection •
- Intelligent Video Surveillance •
- Video Analytics •
- 64-bit RISC Servers •
- Display Wall •
- Local Field Controllers •
- Dynamic Message Signs •
- CCTV •
- Vehicle Detection •
- Overheight Vehicle Detection •
- Highway Advisory Radio •
- AM/FM Rebroadcast •
- Environmental Monitors •
- Fire Detection •
- Fiber Optic Video Network •
- Wireless Video •
- SONET Network •
- Spread Spectrum Radio •
- Data Warehousing •

**DYNAC®**

Boston's Central Artery/Tunnel, owned by the Massachusetts Highway Department, is the largest and most complex highway project ever undertaken in an American city. The project transformed downtown Boston as the aging and overly congested elevated expressway was replaced with a new underground interstate system and a third harbor tunnel. Opened in 1995, the new Ted Williams tunnel extends the Massachusetts Turnpike under Boston Harbor to provide improved access to Logan International Airport.

Transdyn is providing the electrical distribution system for over 150 lane-miles of highway and 20 major operations, emergency response, ventilation, and electrical distribution facilities. The system is managed by Transdyn's DYNAC® Advanced Traffic and Facilities Management software that runs on redundant servers and distributed operator workstations. Vehicle detection, video surveillance, ventilation, electronic sign, motorist advisory, communication, fire detection, security, lighting, electrical, and environmental systems are combined into an integrated control system that can be managed from a single operator workstation.