



## **FIBRE OPTIC TERMINATION STATION** Lynn, Massachusetts

### **OWNER**

360 Networks

### **DESIGN AND CONSTRUCTION TEAM**

Electrical Consultants: MCW Consultants Ltd.  
Structural: RJC  
Architect: IBI Group

### **PROJECT DESCRIPTION**

This project is the submarine fibre optic Termination building connecting Dublin and Boston. The building also provides the interface between the submarine cables and the Terrestrial fibre optic network.

### **SYSTEM DESCRIPTION**

#### **Electrical**

- 2 MVA service with dual Transformers providing building power @ 277/480V-3 phase - 4W 60 HZ
- 3-600 KVA generators providing back up power to the double ended switchboard serviced by the 2 MVA transformers
- 10,000 amp -ve 48V DC plant providing dual inputs for all Teleco equipment
- Submarine cable power supply at 11,000V DC
- Total monitoring of all systems at 360 corporate office in Vancouver
- All systems designed for N+1 redundancy

#### **Mechanical**

- Air cooled chillers provide 400 tons of cooling
- Computer style air handlers in an N+1 configuration
- Double chilled water loop for redundancy
- 7 days fuel supply for the Gensets