

# Case Study: Northern State Parkway

## Objectives:

- Datacomm Infrastructure Queens to Hauppauge
- Lighting Infrastructure

## Highlights:

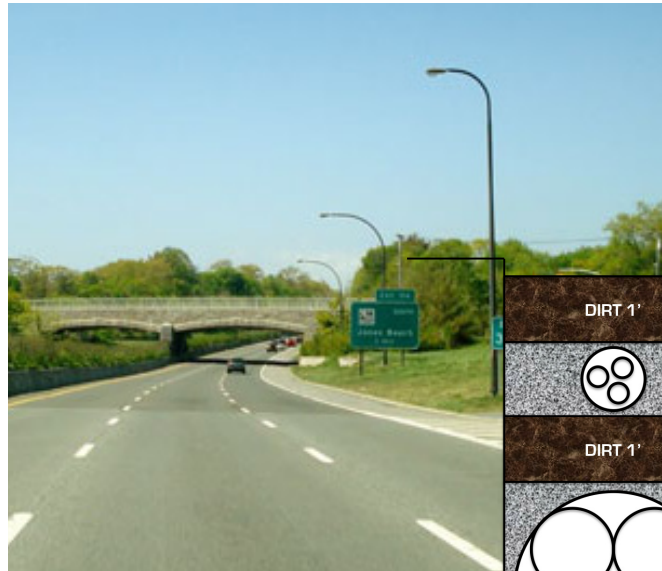
Comprehensive & Superior VECP

Custom Multi-Cell Innerduct Design

Concrete Encasement For 100% Structural Integrity

Future Proof & Expandable Datacomm Infrastructure

Year : 2000  
Size : \$9.4M



Cable for Lighting Electric & Conduit

Concrete Encased Datacomm Conduit

- 4-in-1 Innerduct Design
- 20' Length Sections
- Custom Connector Tool Created to Seal Lengths

## Lighting and Datacomm Infrastructure Queens to Hauppauge

Since the inception of the internet, the requirement for more and more data and connectivity has doubled every year. In 1999, a project was developed to install connectivity datacom conduit from Queens to Happaugue. Coupled with the installation of new lighting, this conduit was determined to follow the Northern State Parkway.

Commander Electric (CE) reviewed the original engineering plans and quickly assessed that the design was unachievable. CE brought forth a comprehensive Value Engineering Change Proposal (VECP) that included:

- Custom 4-in-1 Multi-Cell Innerduct Design (20' lengths)
- Concrete encasement for 100% structural integrity
- Custom connector tool used to seal 20' innerduct lengths

**RESULT:** New York State recieved a future proof datacomm connectivity conduit from Suffolk to Mid-Tow Manhattan with the ability to expand to 4x capacity.