# Service Offering: Independent Fiber Engineering & Project Management

We provide independent fiber engineering and project management services to support DOTs, toll agencies, and infrastructure operators. Acting as a trusted third-party reviewer, we ensure that fiber networks are designed, built, and maintained to the highest standards—delivering resilient infrastructure, compliant operations, and long-term value.

## Design & Engineering Support

* Third-Party Design Review – Validate fiber network plans for compliance, constructability, and lifecycle costs.
* Value Engineering – Recommend routing, splice, and equipment alternatives for cost savings and performance.
* Standards Compliance – Ensure adherence to DOT, NESC, and agency-specific guidelines.
* Technology Evaluation – Assess emerging fiber and optical solutions for integration readiness.

## Construction Oversight & QA/QC

* As-Built Verification – Confirm construction matches design, including strand continuity and GPS locations.
* Quality Control Audits – Independent review of workmanship, material usage, and installation.
* Permitting & ROW Coordination – Manage DOT and municipal approvals to avoid delays.
* Testing & Certification – OTDR and insertion loss validation to certify performance.

## Project Management & Advisory

* Schedule & Cost Control – Independent review of contractor schedules, budgets, and risk plans.
* Change Order Review – Validate necessity and fairness of contractor requests.
* Stakeholder Coordination – Bridge between DOTs, toll agencies, and utilities.
* Contractor Performance Review – Provide objective evaluations of contractor performance.

## Operations & Lifecycle Services

* Maintenance Strategy Development – Define inspection cycles, testing, and redundancy planning.
* Outage Investigation – Root-cause analysis of fiber cuts and service failures.
* Resiliency Planning – Recommend ring topologies, failover paths, and spare capacity strategies.
* Training & Knowledge Transfer – Train DOT/tollway staff on fiber basics and O&M procedures.