

Outside Plant



In the 1970's, the expanding wireline industry turned to Morrison Hershfield's decades of engineering experience to provide outside plant services for their infrastructure buildouts. Today these same clients, as well as new clients, have come to rely on our expertise for maintaining and expanding their systems as well as designing new outside plant and associated structures.

Services include:

- **Project and program management**
- **Planning**
- **Permitting/regulatory compliance**
- **Multidisciplinary engineering**
- **Procurement**
- **Record management**
- **Construction management**
- **Design-build**



New Outside Plant Infrastructure



Alberta SuperNet Outside Plant



Design-Build for Outside Plant Location



Front End Engineering Design for Telecommunications Infrastructure -



CFB Evaluation Range Outside Plant Design .



New Outside Plant Infrastructure

We were responsible for implementing the design, approvals and construction for the three carriers involved in this joint build infrastructure project. The project consisted of 300 m of conduit in three segments: an outside plant connection to transport fiber on a rail right-of-way, EMT conduit from the building entrance to our client's transport hub, and a joint use build for three carriers.



Fibre Optic Outdoor Cabling Infrastructure Front End Engineering Design (FEED), PCOSI

Key deliverables were a Class 3 cost estimate and schedule, construction fiber optic connectivity and project plan for execution phases. The fiber optic cabling system was designed to be the transmission media for telephones, local area network (LAN) services, security (including video), life safety systems information and automation data. The cabling and supporting infrastructure were designed to accommodate growth and change over the life of the PCOSI plants. Redundant and highly reliable fiber optic connectivity to the Customer Premises identified in the system design was the key requirement for the engineering exercise, providing the necessary backhauls and system interconnections. Best practices criteria included: ease of installation, cost, consistency, reliability, integration, interoperability, operation and maintenance.

