



# AXIS

Relationship-based. Technology-driven

## GROUP OF COMPANIES



### City of Grand Forks

Communication Infrastructure

Grand Forks was building an outside plant fiber optic distribution system to interconnect key properties within the City including School District #51 main facilities. Core Strategic Services included:

- > Building an outside plant fiber optic distribution system to interconnect key properties within the city including Grand Forks School District #51's main facilities
- > Installing over 15km of singlemode fiber varying in size from 12 to 144 strands
- > Constructing aerial installations and fiber optic splicing of over 1100 strands of singlemode fiber
- > Testing of the entire installed Infrastructure and QA
- > Providing the Corning 25 years warranty for installation

> See [AxisTech.ca](http://AxisTech.ca) for Full Case Study

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 AxisTech.ca



## Integrated Communications Systems Customized for Municipalities

We are AGC–The Axis Group of Companies, located in Greater Vancouver, British Columbia. Our dynamic team of industry experts and accredited personnel provides integrated and scalable solutions to the communications infrastructure community in Western Canada. With a goal to position ourselves as a BC industry leader, AGC specializes in a full range of project capabilities for municipalities including:

- |                              |                         |
|------------------------------|-------------------------|
| 1. POL – Passive Optical LAN | 5. Data Centres         |
| 2. Fibre Optic Installations | 6. Security Systems     |
| 3. Structured Cabling        | 7. Audio Video / Visual |
| 4. Wireless Infrastructure   |                         |

At AGC, we have built customized solutions to countless industries such as: Municipalities, Construction, First Nations, Transportation, Education, Health Care, Government, Entertainment, Resource-based, Media, Biomedical Research, Tourism, Hospitality, Retail and many more.

***“Thank you very much for all of AxisTech’s great work and continued support over the last seven years. Your commitment to excellence and professionalism have been and continue to be a valuable asset to both School District No. 51 and the City of Grand Forks...”***

John Popoff, Technology Manager  
 School District No. 51 (Boundary)

Daniel Drexler, IT Consultant  
 The Corporation of the City of Grand Forks

## Focused on Municipalities. Depth of Experience

### Chilliwack School District - SD33: First Deployment of Passive Optical LAN in Western Canada

*Technology-Forward and Green-Networking Solutions*

AxisTech and CTAR Corp announced the deployment of groundbreaking Passive Optical LAN solution at Sardis Secondary in the Chilliwack School District of British Columbia. The technology foreman at SD33, Randy Janzen, researched and selected the POL solution. "We wanted our students to have access to the latest learning technologies available. Deliver the services we want both now and in the future, with functional, cost and operational benefits."

Passive Optical LAN, or POL, is becoming one of the fastest-growing transmission topology for new cable installations and modern upgrades. An Optical Splitter based networking solution replaces the existing LAN connections as well as traditional network switches with an individual high capacity cable; transmitting information to connect the end user directly with the data centre by sending light signals through an optical fibre. The shareable POL system with multiple infrastructure capabilities has the radius range of 20 kilometres versus the average 300 feet range of legacy copper wiring.



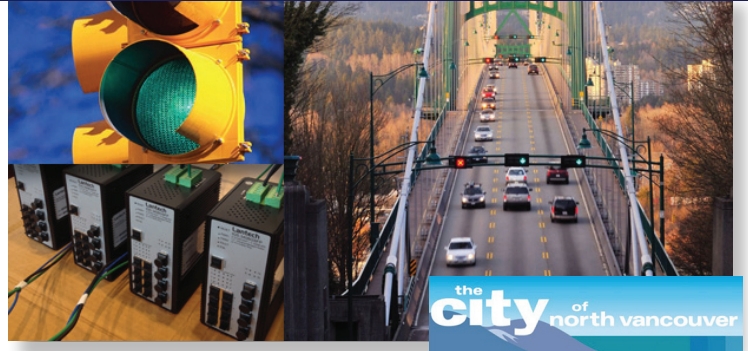
Built over two decades ago, Sardis Secondary School had a limited pathway, space and infrastructure for the network upgrade. Fiber based networking solution can be incorporated into legacy buildings, school environments, corporate enterprise settings, shopping centres and hospitals; thus, the POL solution was an ideal fit for Sardis Secondary.

"We're thrilled to work on the first POL deployment in Western Canada," Joana Barbulescu, RCDD - President AGC

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#### Cities and Municipalities include:

- > **North Vancouver** - City Traffic Control Management Systems
- > **Chilliwack SD33** - Passive Optical LAN, Safety & Security Upgrade
- > **Grand Forks** - SD51 Communications Infrastructure
- > **Maple Ridge** - City Hall Re-Terminating Backbone Infrastructure
- > **Burnaby** - Communication Conduit Verification & Video Inspection
- > **Delta** - Server Room Troubleshooting & Repair of Fibre Optics



### City of North Vancouver: Fibre Optic Network & Traffic Control Management System

*To Better Manage Connectivity, Communications, and Safety*

The City of North Vancouver's vision is to become a highly engaging community that celebrates its vibrant and diverse neighbourhoods. With this mandate, the City needed to upgrade its legacy communications infrastructure to a technology-advanced fibre-optic network with maximum bandwidth and heightened security.

The City's first priority was to establish a network of Fibre Optic Connections in North Vancouver. Initial strategies involved assessing the current condition of the legacy communication pathways. After close examination, a proposed technology and safety upgrade was implemented to the 30-year-old TCMS – Traffic Control Management Systems, and fibre optic connectivity to all Civic Buildings.

Responding to the RFP's design requirements and proceeding with the Phase One installation portion of the TCMS, the team at AxisTech worked in a cooperative manner with IT, traffic control and operations. The resulting success of The City of North Vancouver's 11 km fibre optic TCMS installation has earned AxisTech, Phase Two of the transportation infrastructure project. Phase Two consists of fibre splicing 3.5 km of cable near the low level road along Esplanade from St George to Lynn Creek. Two cables of 96 strands of fibre were added in Phase Two of the TCMS – Traffic Control Management Systems.

Traffic Control Management Systems included environmental hardened switches rated to -40 degrees from LanTech. The Dual-Ring Safety Backup Route was utilized to ensure precision control of traffic flow and to prepare for emergency responds. LanTech switches were also specifically designed in a "Support Loop" to anticipate power failure, overload of system, and natural disaster. The Fail-Safe Control System functions as "Dual Rings", meaning, if one TCMR Ring fails, the signal automatically changes direction and reroutes to the multiple backup LanTech switches.

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**AGC – The Axis Group of Companies**, comprised of Axis Technical Services and Axis Systems Group, credits ongoing success in part, to its long-term association with BICSI - Building Industry Consulting Service International.

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