

# Telecom Network Site Deployment



Morrison Hershfield's telecom experience encompasses the design and implementation of thousands of projects across a broad array of industry-related environments, including mobile and fixed wireless, radio, broadcast, cable, broadband and information technology.

Our expertise includes:

## Site Development

- Rawland, rooftop, tower co-location and stealth site A&E design
- Permitting
- Site audit and as-built documentation
- Project and construction management

## Tenant Improvement

- Electrical, mechanical and structural evaluation
- Equipment room design
- Energy and heat load study
- Construction documents

## Tower Engineering

- Structural analysis and reinforcement design
- Foundation analysis and design
- Tower inspection and mapping
- Outsourced co-location management
- Design-build

## Environmental & Civil Component

- Environmental assessments (EA) and permitting
- NEPA-SHPO reviews
- Environmental risk assessments
- Evaluation of remediation technologies
- Phase I and Phase II ESA



Emergency Warning System Modernization



Equipment Mods Project



Turnkey Tower Reinforcement



Generator Deployment



Initial Market Deployment



### **Kentucky Emergency Warning System (KEWS)**

After a large number of tornadoes hit Kentucky in April 1974, one of the biggest challenges emergency and public safety officials faced was the capability to communicate with each other. As a result, the State of Kentucky created the Kentucky Emergency Warning System (KEWS) that provides an “always on” microwave backbone for state public safety agencies. 33 years later, we provided architectural and engineering design services to help modernize the KEWS network, including site surveys on 15 sites to capture design information, assessing the existing structures, and designing upgrades for more modern network equipment at each site.



### **Alberta SuperNet Wireless Network**

The Alberta SuperNet connects all schools, hospitals, libraries and government buildings throughout the province with a broadband network. We provided the turnkey wireless deployment for over 200 wireless sites in the extended area, from initial inception to network ready client hand-over. Sites with diverse infrastructure requirements were located over a large geographical area. We were recognized with a Canadian Consulting Engineering Award of Excellence for Project Management and a Consulting Engineers of Alberta Award of Merit for our work on this project.

