

Concept Engineering

Electrical Consulting



At Concept Engineering we strive to make your concept a reality using cost effective and efficient design strategies. We pride ourselves on close client interaction and professionalism. With a combined 30+ years experience we offer 3 distinct Electrical Engineering directions: Building Systems Engineering, Horizontal Electrical Utilities, and Sustainability.

Building Systems Engineering:

From initial concepts to working drawings, from design meetings to contract administration, Concept Engineering is there, offering a full range of Building Systems Engineering:

- Complete design of all electrical systems:
 - Lighting systems and layouts
 - Power distribution
 - Life Safety
 - Telecommunications, security and audio/visual
- Design Build
- Complete design and drafting services utilizing AutoCAD and REVIT
- Fire Alarm Verifications
- LEED® Accredited Professional
- Building Evaluations and Feasibility Studies
- Manufacturers and designed short circuit calculations
- Full contract administration (design development to final inspection)

Horizontal Electrical Utilities:

With a broad range of experience in utilities engineering, whether it be overhead or underground distribution (power and telecommunication), Concept Engineering can provide the details and information required:

- Residential Electrical distribution URD
 - Detailed design
 - Coordination with all utilities
 - Easement application
 - Qualified street lighting design (RTAC and/or IESNA requirements)
 - Material specifications
 - Inspections



- Transportation Engineering Services
 - Street lighting to Transportation Association of Canada (TAC) standards
 - Street lighting assessments
 - Traffic control distribution

Sustainability:

Sustainability is the ability to fulfill the needs of the present without compromising the needs of the future.

We are constantly reminded that we must not sacrifice the environment for the sake of progress and as professionals must seek balance in all that we create. Through sustainable design, Concept Engineering strives to reduce energy consumption and environmental impact, meanwhile increasing comfort, functionality and overall productivity.

We achieve these values by:

- Pursuing continuing education and certifications
- Collaborating with experienced professionals
- Researching current and new technologies
- Practicing these ideals in everyday settings

Professional Affiliations:

APEGGA – Association of Professional Engineers, Geologists and Geophysicists of Alberta

PEGBC – Professional Engineers and Geoscientists of BC

IES – Illuminating Engineering Society

CaGBC – Canadian Green Building Council

ASET – Association of Science and Engineering Technology

IMSA – International Municipal Signal Association

Sherwood Park and District Chamber of Commerce

FortisAlberta Approved Contractor



Notable Projects:

Residential

- Mosaic Town Square : 164 unit Town home development for Hawthorne Homes
- Mosaic Meadows : 92 unit town home development for Hawthorne Homes
- Silver Birch Apartments: 70 unit subsidised income development for Strathcona County
- Peace Hills Lodge: 74 unit assisted living for the Bethany Group in Wetaskiwin

Commercial and Community Services

- Kingsway Legion: New banquet and club house for Legion Branch #175 as per City of Edmonton LRT Expropriation Plan.
- Strathcona Fire Hall No 5: Major renovation and addition to existing Strathcona County Fire Hall.
- Bruderheim Fire Hall: New community fire hall
- Gold Bar Community Centre: Major renovation and addition to existing community centre.
- Whitecourt Community Centre: Major renovation and change of use for existing pool facility into new community centre
- Jasper Ice Fields Interpretive Centre: Renovation to existing interpretive centre and creation of new state of the art theatre.
- EMCEE Construction Office Space: New office space for EMCEE construction designed to LEED CI silver.
- JV Driver Office Space: 60,000sqft office space for JV Driver Contractors
- West Rivers Edge Nordic Centre: Nordic lodge in Fort Saskatchewan

Educational and Recreational

- Faculty St. Jean La Cite: La Cite Francophone Community Centre tenant design
- CDI College: New CDI college space located in Mayfield Common (100+ students)
- Whitecourt Arena: Renovation and addition of existing Whitecourt twin arena including lighting retrofit
- Hinton Arena: Renovation of existing.



Restaurant and Retail Services

- Subway - Beaumont
- Spring Roll Kitchen – Edmonton
- Press'd Sandwiches – Edmonton
- Crave Cupcakes – Edmonton
- Anthropologie: High end clothing retail store in West Edmonton Mall and Oakville Ontario (BMO Historic building retrofit)

Institutional

- Fort Saskatchewan Correctional Centre Swing Space: Development of a secure temporary swing space to house 50 inmates during security upgrade.
- Edmonton Institute For Women Housing Remediation: Renovation of existing housing units and upgrade of mechanical systems due to existing mould.
- Grierson Centre Gym Renovation: Renovation to the existing gym at the Grierson Correctional Institute due to inadequate insulation and attic design (new lighting and mechanical systems).

URD and Transportation

- Bilby Common: 45 unit residential acreage lots shallow utilities in Lac Ste Anne.
- Westwind Heights: 34 unit residential acreage lots shallow utilities.
- Wolf River Estates: 11 unit residential acreage lots in Red Deer
- Hwy 28 Cold Lake: Street lighting for new twinned highway
- Lantern Street lighting – Street lighting design and General Contracting.

Engineering your concepts...

