

Chris Skowronski, P.Eng.
Senior Vice President, Infrastructure



RESUME

Education

- B.Sc., Civil Engineering, University of Alberta - 1988
- Civil Engineering Technology Diploma, Northern Alberta Institute of Technology - 1984

Employment History

- 1988 - Date: Associated Engineering

Professional Societies

- Association of Professional Engineers and Geoscientists of Alberta
- North American Society for Trenchless Technology

Summary of Experience

Chris Skowronski is Senior Vice President of Infrastructure and has 29 years of experience in civil engineering management, design, planning, and rehabilitation of urban infrastructure. His responsibilities include corporate engineering management, project management, contract administration, client liaison, coordination of staff and resources, coordination of subconsultants, budget control, cost management, engineering design for water servicing, sanitary servicing, storm drainage, roadways and infrastructure renewal, administration of the tendering process and coordination of construction on municipal projects.

Chris's experience includes computer modelling, analysis of water networks, preparation of bidding and contract documents, on-site inspections and construction coordination, feasibility studies, conceptual designs, inter-discipline design team coordination, and quality control/assurance.

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Urban/Rural Development

- **721405 Alberta Ltd., Blueberry County Residential Subdivision, Parkland County, AB:** Provided project management services during the predesign and detailed design stage of the project. The project included the development of 20-30 country residential lots.
- **Broadview Developments, Deer Park Estates Subdivision, Spruce Grove, AB:** Provided project management services during the predesign, design and construction stages of the site development. Project includes the ongoing staged development of residential lots.
- **Charger Homes, West Lawn Subdivision, Cold Lake, AB:** Provided project management services during the detailed design and construction stages of the site development. Project included the development of approximately 20 residential lots.
- **Hama Developments, New BMW Dealership Site Servicing, Edmonton, AB:** Provided project management services during the detailed design and construction stages of the site development. Project included the extension of water, sanitary and storm mains to the site and implementation of a stormwater management facility.
- **Jutland Ridge Developments, Jutland Ridge Estates Subdivision, Stony Plain, AB:** Provided project management services during the detailed design and construction stages of the site development. Project includes the ongoing staged development of residential lots.
- **Kasian Kennedy Architects, Jackson Heights School Servicing, Edmonton, AB:** Provided project management services during the detailed design and construction stages of the site development. Project included the extension of water, storm and sanitary mains to the site and site access improvements.
- **Lakeshore Developments, Lakeshore Estates Subdivision, Parkland County, AB:** Provided project management services during the detailed design and construction stages of the site development. Project included the staged development of fully serviced, country residential lots on the south shores of Big Lake.
- **City of Lloydminster, Parkview Estates Subdivision, Lloydminster, AB:** Provided project management services during the detailed design of the site development. Project includes the ongoing staged development of residential lots.
- **Qualico (West) Developments, Brookview Subdivision, Stony Plain, AB:** Provided project management services during the detailed design and construction stages of the site development. Project included the staged development of residential lots.
- **Signature Developments, Heritage Estates Subdivision - Stage 1, Spruce Grove, AB:** Provided project management services during the detailed design of the site development services during the detailed design of the site development. Project included the development of 40-50 residential lots.
- **Town of Stony Plain/Jutland Ridge Development/Buckingham Properties, 44th Avenue Extension, Stony Plain, AB:** Provided project management services during the detailed design and construction stages of the site development. Project included the extension of the first two lanes of a 4-lane minor arterial roadway.

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- **Tri-City Developments, Tri-City Estates - Stage 1, Cold Lake, AB:** Provided project management services during the detailed design and construction stages of the site development. Engineering services included the creation of a site stormwater management plan. Project included the construction of water, sanitary and storm mains, stormwater pond and paved roadways complete with sidewalks.
- **Value Master Homes, Colonial Estates Subdivision, Cold Lake, AB:** Provided project management services during the detailed design and construction stages of the site development. Project included the construction of water, sanitary and storm mains, and paved roadways complete with sidewalks.
- **City of Camrose, Cornerstone Commercial Site Off-site Servicing, Camrose, AB:** Responsible for project management, coordination of technical staff and subconsultants. The project involved the extension of a gravity sanitary sewer, forcemain and a lift station.
- **Rainbow Beach Developments, Jackfish Lake Country Residential Subdivision, Parkland County, AB:** Responsible for project management, coordination of technical staff and subconsultants, and quality control. This project involved design and construction of 20-30 country residential lots.
- **Village of Onoway, Water Distribution Network Analysis and Master Plan, Onoway, AB:** Responsible for project management, coordination of technical staff and quality control. This project involved the hydraulic analysis of the water distribution and sewerage collection systems for present and ultimate development demands. The analysis yielded a master plan of system improvements.
- **Alberta Public Works, Supply and Services, Spruce Point Park Marina, Kinuso, AB:** Created the marina master concept plan. Responsible for the design of the water and sewer services. Coordination of the architectural and structural disciplines for the concept development and design of the marina service centre building. Responsible for the coordination of the floating docks land connectors design. Carried out preliminary design of all roads and parking lots. Responsible for the coordination of disciplines in the preparation of the contract specifications.
- **McJane Developments Ltd., Cold Lake Subdivision, Cold Lake, AB:** Responsible for the design services for a residential subdivision development. Duties included design of water and sewer mains, services, road, and surface drainages. Also prepared contract specifications.
- **Indian Lakes Golf Ltd., Indian Lakes Golf Course:** Responsible for verification of work and preparation of progress payments.
- **Camtina Developments Ltd., Tri-City Mall Development, Grand Centre, AB:** Responsible for the development of site grading options, the design of all on-site and off-site services and roadway systems.
- **Land Development, Beaumont, AB:** Responsible for client liaison and the provision of technical assistance.
- **Auld, Faling, Shaw Architects, Wabasca Boat Launch Selection, Wabasca, AB:** Prepared a report, which included a site analysis, boat launch type selection and cost estimate development.
- **Alberta Municipal Affairs, Land Concept Plan, East Prairie, AB:** Developed conceptual plans for a recreational area. The assignment included a drainage design plan for the approved concept.
- **Hospital Site Analysis, Slave Lake, AB:** Assisted in the collection and preparation of data to determine site suitability.

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- **Residential Subdivision, Fort McKay, AB:** Responsible for design services for a residential subdivision development including water and sewer mains, roads and surface drainage.
- **Water and Sanitary Sewer, Redwater, AB:** Directed and coordinated the design of water and sanitary sewer extension, including the preparation of tender documents.
- **Street Improvements, Girouxville, AB:** Resident Engineer responsible for construction supervision of roads, curb and gutters.
- **Edmonton Country Club, Site Services Expansion, Edmonton, AB:** Provided design and construction supervisory services for the installation of water and sewer mains.
- **Public Works Canada, Cold Lake Marina, Cold Lake, AB:** Responsible for the dredging design concept. Prepared the conceptual design to determine dock locations.
- **Alberta Public Works, Supply and Services, Cold Lake Marina, Cold Lake, AB:** Assisted in the design of the parking lot and boat services including sewage/gas pumps and dock water services.
- **Fort McKay Indian Band, Netyeou Subdivision Expansion, Fort McKay, AB:** Responsible for the design services for a residential subdivision development including water and sewer mains, roads and surface drainage. Prepared contract specifications and administered the tendering. Responsibilities also included contract administration.
- **Campsite Road Trunk Re-alignment, Capital Region Sewage Commission:** Carried out the preparation of contract drawings and specifications. Administered the project.
- **HCK Management Inc., Modification of the Deer Park Estates Area Structure Plan, Spruce Grove, AB:** Administered the complete project and coordinated subconsultant services. Assisted with the preparation of the Area Structure Plan Revision report.
- **Alberta Government Telephones (AGT), Fibre Optic Duct Relocation, Grand Centre, AB:** Project duties included project coordination, management of staff, design services, preparation of tender documents. Project included the relocation of a telephone fibre optic duct which was in conflict with the Highway 28 widening north of Grand Centre.
- **St. Matthew's Water and Sewer Extensions, Spruce Grove, AB:** Directed and coordinated the design of water and sanitary sewer extensions, including the preparation of tender documents.

Infrastructure Renewal

- **Alberta Municipal Affairs, Entwistle Infrastructure Study, Entwistle, AB:** Responsible for project management, coordination of technical staff and subconsultants. The project involved the assessment of the water, sanitary, storm and roadway systems.
- **Village of Andrew, Municipal Infrastructure Management Systems (MIMS) Pilot Project, Andrew, AB:** Responsible for project management, coordination of technical staff and subconsultants. The project involved the creation of a MIMS database and drawings for the core infrastructure components (water, sanitary, storm and roadways). Partial assessment of the utilities was conducted.
- **City of Camrose, 43rd Avenue Trunk Sewer, Camrose, AB:** Responsible for project management, coordination of technical staff and subconsultants. The project involved the construction of a deep sanitary trunk sewer in urban built up and environmentally sensitive areas.

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- **City of Camrose, 46 Street Storm Sewer, Camrose, AB:** Responsible for project management, coordination of technical staff and subconsultants. The project involved the design and construction of a large diameter storm sewer in an existing Camrose neighbourhood.
- **County of Athabasca, Grassland Sanitary Trunk Replacement, Grassland, AB:** Responsible for project management, coordination of technical staff and subconsultants. The project involved the design and construction of a new sanitary trunk sewer in a built up area of the Village.
- **Department of National Defence, Edmonton Garrison Infrastructure Study, Edmonton, AB:** Responsible for project supervision, coordination of staff and quality control. This project included the structural and hydraulic assessment of the base sanitary and storm sewers systems. The work resulted in a phased upgrading program.
- **Department of National Defence, Edmonton Garrison Sewer and Road Upgrades, Edmonton, AB:** Responsible for the project management, coordination of staff, design and quality control. This project included the phased upgrading of the sanitary and storm sewers and roadways over a period of 18 years (1990 - 2008). Pipe replacement was conducted by conventional trenching and pipe bursting methods. Sewer services were replaced through conventional trenching, pipe bursting and guided boring methods.
- **City of Edmonton, Ottewell Drainage Tunnel, Edmonton, AB:** Responsible for the project management, coordination of technical staff and subconsultants. This project included the design of a storm sewer tunnel between Ottewell Creek and an existing storm sewer outfall main, which eliminated the Creek flow contribution into an existing combined sanitary sewer.
- **City of Edmonton, NEST NL2/NL3 Conceptual Design, Edmonton, AB:** Responsible for project management, coordination of technical staff and subconsultants, and quality control. This project included the conceptual design of a 2.4 m sanitary tunnel. The design process included value engineering, constructability and operability review, and risk analysis.
- **A.M.P.L.E. Project, IW-9, Edmonton, AB:** Resident Engineer responsible for construction supervision including coordination of subconsultant services, client/contractor liaison and contract administration. The project encompassed the rehabilitation of sidewalks, roads, water and sewer. The project involved the removal and replacement of water and sanitary sewers and services. Works included trenchless pipe replacements/rehabilitation such as INSITUFORM pipe lining system, PIT and CORING sanitary sewer installation, cast iron watermain replacement by EXTRACTION.
- **A.M.P.L.E. Projects, IW-8 and IW-11, Edmonton, AB:** Project Coordinator Assistant for the Inglewood Neighbourhood Programs. Carried out design, prepared contract specifications and administered the tendering. Responsibilities included contract administration assistance. This project encompasses the rehabilitation of sidewalks, roads, water and sewer. The project involved the removal and replacement of water and sanitary sewers and services. Works included trenchless pipe replacements/rehabilitation such as INSITUFORM pipe lining system, PIT and CORING sanitary sewer installation and PIM (Pipe Bursting Technology) sanitary sewer upgrading.
- **50th Avenue Upgrading, Grand Centre, AB:** Responsible for design services of the rehabilitation of water mains, sewer mains, services, roadways, soft and hard landscaping. In addition, coordinated structural and electrical design teams. Prepared contract drawings and specifications. Responsibilities included contract administration.

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- **50th Avenue Reconstruction, Bonnyville, AB:** Responsible for design services rehabilitation of water mains, sewer mains, and services. Prepared contract drawings and specifications. Administered the project tendering. Responsibilities included contract administration.
- **Rossdale Sewer Relief, Edmonton, AB:** Responsible for the project management, design services, preparation of contract drawings and specifications. This project involved the rehabilitation and separation of combined and storm sewers within the Rossdale neighbourhood. Works included trenchless pipe spot repairs and rehabilitation such as INSITUFORM pipe lining system and PIPE BURSTING trenchless pipe replacement technology.
- **Boyle Street - McCauley Zone 2 Rehabilitation, Edmonton, AB:** Responsible for project supervision, development of predesign reports, design reports and project coordination during construction. This project involved the upgrading of underground utilities in conjunction with the rehabilitation of roadways and concrete structures.
- **Clareview Forcemain Upgrading, Edmonton, AB:** Responsible for project supervision, development of predesign and design reports, and tender documents. This project included the construction of a 750 mm PVC forcemain between the North Saskatchewan River Crossing and the Regional Plant. Unique aspects of the project included a hot-tap connection of the new forcemain into an existing reinforced concrete low pressure trunk main.
- **Sanitary Sewer Assessment, County of Athabasca No. 12, Grassland, AB:** Responsibilities included management of the project, coordination of staff, engineering design services and report preparation. Project included the review and assessment of a low pressure sewage collection system, development of a system upgrading plan complete with cost estimates.
- **Water and Sewer System Rehabilitation, Municipal District of Yellowhead No. 98, Wildwood, AB:** Project duties included management of staff and subconsultants, design services and general engineering services. Conducted the complete water and sewer system assessment and developed an upgrading plan complete with cost estimates. Project included the replacement of selected watermains and the replacement/spot repair of the sanitary sewer system.
- **Replace Storm and Sanitary Sewers, Department of National Defence, CFB Cold Lake, AB:** Responsible for project supervision, coordination of staff and quality control. This project included the structural and hydraulic assessment of the sanitary and storm sewer systems, and the assessment of all roadways within the base core area. Contract drawings and specifications were prepared for the entire base area.
- **Sulphide Corrosion Testing, Capital Region Sewage Commission, AB:** Responsibilities included management of the project, coordination of engineering staff and subconsultants, report preparation and client liaison. This project required the development of a sulfide corrosion testing program to determine the level of corrosion present within the regional concrete trunk sewer system. Work included the development of a Safe Job Procedure, testing contractor selection and testing supervision.

Water Supply and Treatment

- **Truckfill Upgrade, City of Camrose, AB:** Responsible for project management and coordination of technical staff. The project involved the design and construction of required upgrades to an existing potable water truckfill.

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- **CGU Insurance, Penhold Fire Investigation, Red Deer County, AB:** Responsible for the monitoring of the existing system hydrant testing activities. Ensured compliance with testing standards.
- **Grassland Rural Truckfill, County of Athabasca, Grassland, AB:** Responsible for project management and coordination of technical staff. The project involved the design and construction for a non-potable rural truckfill.
- **Regional Pipeline Feasibility Study, County of Athabasca, AB:** Responsible for project management and coordination of technical staff. The project involved the conceptual design of a potable water pipeline between the Town of Athabasca and the communities of Colinton, Boyle and Grassland.
- **WATC Water Transmission Main Replacement, Western Area Training Centre, Department of National Defence, Wainwright, AB:** Responsible for project management and coordination of technical staff. This project involved the design of a potable water transmission pipeline from the WATC WTP to the base storage reservoir.
- **Regional Water Distribution Plan, County of Athabasca, AB:** Responsible for project management, coordination of technical staff and quality control. Project involved the development of a master potable water distribution plan for the County of Athabasca region.
- **Colinton Regional Pipeline, County of Athabasca, AB:** Responsible for project management, coordination of technical staff and subconsultants, and quality control. Project involved the design and construction of a potable water transmission pipeline between the Town of Athabasca and the Hamlet of Colinton.
- **Colinton Regional Reservoir, County of Athabasca, AB:** Responsible for project management, coordination of technical staff and subconsultants, and quality control. Project involved the design and construction of a 1,000 m³ concrete reservoir.
- **Water Network Analysis, Slave Lake, AB:** Assisted with the analysis of the existing water network using the computer program K-PIPE.
- **Water Reservoir Expansion, County of Athabasca, AB:** Undertook the design to refurbish and expand the water reservoir. Also developed the site grading plan.
- **Raw Water Supply to Upgrader, Lloydminster, AB:** Carried out design for 8 km of raw water supply line. Responsible for the preparation of contract drawings and specifications and administered the tendering.
- **Inspection and Repair of Hydrants, Sherwin Industrial Park, Alberta Fire Commission, AB:** Carried out the inspection and repair of the subdivision hydrants. Works included coordination and supervision of contractor, flow testing and report preparation.
- **Water Supply Improvements, Coronation, AB:** Carried out design for new water supply line and distribution mains.

Wastewater Treatment and Disposal

- **Hamlet of Grassland Sewage Lagoon Expansion, County of Athabasca No. 12, AB:** Prepared preliminary design report. Carried out the preparation of contract drawings and specifications. Administered the project tendering. Contract administration and construction coordination.



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- **Sewage Treatment Study, Edgerton, AB:** Carried out the development and preparation of the analysis report.
- **Fort McKay Sewage Lagoon, Alberta Municipal Affairs, Fort McKay, AB:** Assisted with design and coordination. Responsible for site construction inspection.
- **Sewage Lagoon, Enoch Band, Enoch, AB:** Assisted with the design and preparation of contract documents.

Water Resources

- **Mohler Storm Pond, City of Camrose, AB:** Responsible for project management, coordination of technical staff and subconsultants. The project involved the design and construction of a wet pond complete with inlet channel and outlet structures.
- **46th Street Outfall Channel, City of Camrose, AB:** Responsible for the project management, coordination of technical staff and subconsultants. The project involved the design and construction of a drainage channel complete with concrete inlet/outlet structures, a highway crossing and landscaping.