

## 1. PROJECT TEAM

GACL feels it is vital to have experienced senior resource staff available for our projects. Richard Armstrong, President and Mark Schwab, General Manager have been involved in numerous similar projects. At the field level, Avard O'Brien, Project Foreman has successfully completed numerous projects of similar and greater complexity. In addition to Mr. O'Brien, many of our field staff have been with GACL for over ten years and as such are very experienced and familiar with the work described in this Request for Quotation. Additional support staff and resources of all levels are available out of our Peace River office.

### 1.1. PRESIDENT – RICHARD ARMSTRONG

Mr. Armstrong is the President of GACL and has over 35 years of related experience in all aspects of underground construction, rehabilitation and construction management. As President, Richard will provide overall corporate support for the project.

### 1.2. GENERAL MANAGER/PROJECT MANAGER – MARK SCHWAB, R.E.T., P.L.(ENG.)

Mr. Schwab has over 25 years of experience in construction and project management and has worked on numerous similar projects throughout northwest Alberta. As General Manager & Project Manager, Mark will assist Mr. Ras with Project Management and provide corporate support, overall project coordination and ensure milestone dates are achieved for the project.

### 1.3. ASSISTANT PROJECT MANAGER – IGNUS RAS

Mr. Ras has recently joined GACL and has worked on a number of similar projects. In conjunction with the foreman, Ignus will oversee the day-to-day operations of the project and will liaise with the client and the client's field representative to ensure construction requirements are achieved.

### 1.4. PROJECT FOREMAN – AVARD O'BRIEN

Mr. O'Brien has over 20 years of experience in construction and underground water and sewer projects throughout Northwest Alberta. Avard will oversee the day-to-day operations of the project to ensure construction requirements are achieved.

# **GLEN ARMSTRONG CONSTRUCTION LTD.**

## **RICHARD ARMSTRONG**

**PRESIDENT**

### **PROFILE**

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Richard Armstrong is the President of Glen Armstrong Construction Ltd. He has worked in the construction industry for over 35 years bringing extensive experience to each project.

Richard is responsible for all aspects of corporate operations. He has been directly involved as the project manager since 1995 in each project that is undertaken by the company including many listed in this prequalification and provides corporate support to all levels throughout the company.

### **EDUCATION**

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Peace River High School - Diploma	1984
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### **ADDITIONAL TRAINING**

WHMIS	2017
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### **PROFESSIONAL AFFILIATIONS**

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Alberta Roadbuilders Heavy Construction Association	ARHCA
Alberta Construction Safety Association	ACSA
Western Canada Roadbuilders Association	WCRA

### **CAREER**

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President, Glen Armstrong Construction Ltd.	2007 - Present
General Manager, Glen Armstrong Construction Ltd.	1995 - 2007
Foreman, Glen Armstrong Construction Ltd.	1985 - 1995

### **PROFESSIONAL EXPERIENCE**

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#### **Open Cut & Trenchless Projects**

- North Peace Housing Offsite Storm Sewer – 2017 – Peace River - \$111,405.00
- 102 Avenue Rehabilitation – 2017 – Town of Fairview – \$828,910.00
- Phase 2B Waterline – 2018 – Northern Sunrise County – \$4,150,000.00

## RICHARD ARMSTRONG



- Building Canada Water & Sewer, The Pines – 2017 - Town of Peace River - \$1,557,082.00
- 2016 Neighbourhood Renewal – 2017 – Town of Peace River - \$1,843,855.00
- Infrastructure Recovery Program – 2016 – Town of Slave Lake - \$2,650,000.00
- 50<sup>th</sup> Street Improvement – 2016 – Town of High Prairie - \$522,000.00
- Joussard East End Infrastructure & Key Cove – 2016 – MD of Big Lakes - \$1,098,000.00
- Infrastructure Recovery Program – 2015 – Town of Slave Lake - \$2,845,000.00
- Sanitary Sewer System Improvements – 2015 – Town of Peace River - \$580,000.00
- Fraser Mill Sewer & Water Service – 2015 – Town of High Prairie - \$1,052,000.00
- 2015 Street Improvements – 2015 – Town of High Prairie - \$205,000.00
- Infrastructure Recovery Program – 2014 – Town of Slave Lake - \$1,370,000.00
- Canyon Creek Intake Repair – 2014 – MD of Lesser Slave River – \$170,000.00
- Highway 33 Watermain Extension – 2014 – Town of Swan Hills - \$721,680.00
- Commercial Development 72 St, 101 to 102 Ave – 2014 – Town of Peace River - \$163,000.00
- Museum Offsite Servicing – 2013 – Town of Wembley - \$1,106,000.00
- Go Auto Site Servicing – 2013 – Town of Peace River - \$1,100,500.00
- Nova Hotel Site Services – 2013 – Town of Peace River - \$110,000.00
- Phase 2A Water System – 2013/2012 – Northern Sunrise County – \$8,805,000.00
- Springwood Drive & Sanitary Sewer – 2012 – Hamlet of Worsley - \$734,860.00
- Wastewater Lift Station & Forcemain – 2012 – Hamlet of Grovedale - \$1,412,000.00
- Water & Sanitary Sewer System Improvements – 2012 – Town of Peace River - \$476,370.00
- Reservoir 475 Feeder Main – 2012/2013/2014 – Town of Peace River - \$6,050,000.00
- Fox Stone Meadows Phase 1 Watermain – 2011 – County of Grande Prairie - \$400,000.00
- Jasper Gates Subdivision – 2011 – Town of Hinton - \$616,215.00
- Proposed Water & Sewer Mains – 2010 – Town of Peace River - \$560,000.00
- Rural Water Distribution System – 2010 – County of Northern Lights - \$3,478,265.00
- Storm Sewer Mains – 2010 Town of Fahler - \$56,000.00
- 2009 Utility Rehabilitation – 2009 – Town of Slave Lake - \$1,910,760.00
- Contract 6 Transmission Pipeline – 2009 – Northern Sunrise County - \$7,380,000.00
- Storm Sewer Mains – 2008 – Town of Ft. Vermillion – \$344,345.00
- Village of Donnelly Treated Water Supply Line – 2008 – MD of Smoky River - \$1,073,210.00
- Water & Sewer Extension – 2008 – Hamlet of Cleardale - \$97,395.00
- 16 Lot Subdivision Servicing – 2008 – Worsley – \$228,235.00

# **GLEN ARMSTRONG CONSTRUCTION LTD.**

## **MARK SCHWAB, R.E.T., P.L.(Eng.)**

**GENERAL MANAGER/PROJECT MANAGER**

### **PROFILE**

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Mark is the General Manager for Glen Armstrong Construction Ltd. He has worked in the transportation & construction industry for over 25 years in a wide range of civil fields based mainly around highway and municipal engineering and construction. Mark is responsible for providing technical advice, corporate leadership and support to staff and other managers and is well versed in Alberta Transportation projects as well as County, Municipal District, Town and Village projects.

In his current position, Mark is responsible for the delivery of all aspects of the company's operations. He supervises the Peace River area staff and provides corporate and technical leadership to project managers, project superintendents as well as office and field staff. He ensures deliverables such as bid packages and cost estimates are delivered to clients on time. He excels at participating in peer discussions and provides liaison with other senior management within the company as well as senior partners on projects.

Mark also has strong project management and contract administration skills which enables projects to be delivered on time and within budget. Mark is a Registered Engineering Technologist as well as a Professional Licensee (Engineering) with APEGA. He assists clients with long range planning, budgeting and implementation which allow them to achieve their infrastructure goals. This includes estimating, budgeting of projects, coordination of projects and personnel, design, tender preparation, cost control and administration.

### **EDUCATION**

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Diploma, Civil Engineering, Lethbridge Community College, Lethbridge, AB	1995
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### **ADDITIONAL TRAINING**

#### **WHMIS**

Transportation of Dangerous Goods

Navigational Coaching	2011
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First Aid, St. John's Ambulance	2011
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Ground Disturbance	2010
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Proposals, Presentations, PSMJ	2009
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The Law and the Construction Industry	2008
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Area Radiation Safety Officer Training	2007
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Design Guidelines for Erosion and Sediment Control for Highways	2005
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Project Managers' Bootcamp	2004
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Leadership and Team Building	1999
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Leadership for Safety Excellence	1998
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Dealing with Difficult People	1997
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EMXS – Design and Quantity Calculations	1996
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## PROFESSIONAL AFFILIATIONS

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The Association of Science and Engineering Technology Professionals of Alberta ASET

The Association of Professional Engineers and Geoscientists of Alberta APEGA

## CAREER

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General Manager, Glen Armstrong Construction Ltd.	2013 - Present
Area Manager, Transportation, GENIVAR	2008 - 2013
Area Manager, Transportation, EXH Engineering Services Ltd. ( <i>GENIVAR Acquisition</i> )	2003 - 2008
Project Manager, Transportation, EXH Engineering Services Ltd.	1998 - 2003
Survey Crew Chief, Transportation, EXH Engineering Services Ltd.	1992 - 1998

## PROFESSIONAL EXPERIENCE

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### Bridge Replacement

#### ❖ Alberta Transportation

- **BF 76006 - Highway 2:48**, Alberta (2013): This project included the replacement of two 1500 mm x 27.4 m SPCMP with one 2700 mm x 35.0 m CSP, sideslope restoration, channel realignment and base and paving of the affected roadway.
- **BF 76058 - Highway 2:60**, Alberta (2013): This project included the removal of the existing CSP, installation of sheet pile and soldier pile walls, cast in place concrete floor and swales, concrete wingwall transitions and the placement of precast concrete roof slabs.

### Water & Sewer Installation

- **Hwy 28/63 Contract 2 – Bellis to Whitefish**, (2019): This project included the installation of 33 kilometres of 300mm and 3 kilometres of 250mm HDPE watermain via horizontal directional drilling (HDD) including tie-in connections to the existing system, valves, air release chambers, blow off assemblies and associated appurtenances. HDD included stream crossings as well as numerous environmentally sensitive areas.
- **Town of Peace River Neighbourhood Renewal South of Heart River**, (2018 – 2020): This multi-year project consisted of the replacement of underground infrastructure including water, sanitary sewer, storm sewer, services, hydrants, valves and associated appurtenances as well as a portion of HDPE sanitary sewer main installed via HDD.
- **Hamlet of Woking, Water & Sewer Extension and Hamlet of Savanna Low Pressure Sewer Line**, Woking & Savanna, Alberta (2018): This project consisted of the installation of water and sewer, connection of services, low pressure sanitary forcemain, valve and manhole installation and associated appurtenances.
- **Slave Lake Infrastructure Recovery Program**, Slave Lake, Alberta (2014 – 2016): This multi-year project consisted of the replacement of underground infrastructure including water, sanitary sewer, storm sewer, hydrants, valves and associated appurtenances.

- **Hwy 33 Watermain Extension**, Swan Hills, Alberta (2015): This project included the installation of an HDPE watermain via horizontal directional drilling (HDD) including two HDD highway crossings, valve assembly installations to tie-in existing system and associated appurtenances.
- **Nova Hotel**, Peace River, Alberta (2013): This project included the installation of all site services for a hotel development.
- **Lift Station & Forcemain**, Grovedale, Alberta (2013): This project included the installation of a wastewater lift station and forcemain.
- **Water System Improvements**, Grimshaw, Alberta (2013): This project included the replacement of water services and hydrant and valve replacement.

### Rehabilitation

#### ❖ Alberta Transportation

- **Highway 2:48**, Alberta (2013): This project included 20 km of grade widening/sidesloping, base and paving as well as the installation of culvert liners and culvert replacements.
- **Highway 88:08/10**, Alberta (2010-2011): This project included 20 km of grade widening/sidesloping, base and paving as well as the installation of culvert liners and culvert replacements.
- **Highway 33:12/14**, Alberta (2010-2011): This project included 28 km of paving, side sloping, culvert boring and liners. It also involved three major intersection treatment improvements including service roads and illumination, grading, base and paving of two new SRAs and test sections of full depth reclamation. Additionally, the project included transverse crack mill and fill and inlay mill and fill asphalt north of Swan Hills.
- **Highway 2:68/70 & 49:06**, Alberta (2010): This project included 3 km of grading, base and paving in Rycroft, construction of new service roads, a new Mobile Inspection Station south of Rycroft and new electrical work and illumination.
- **Highway 35:06**, Alberta (2009-2010): This project included grade widening, base and paving work on the County's local road (Twp Rd 910) to tie into the Highway 35 intersection. The project also consisted of intersection improvements at the Hwy 35/Twp Rd 910 intersection.
- **Highway 722:02**, Alberta (2009-2010): This project included 2 km of grading, base and paving coming into the south portion of a commercial/industrial area on the south side of Beaverlodge.

### Base/Paving

- ❖ **2009 Street Paving**, Grimshaw, AB (2010): This project included base, pave and curb and gutter replacement on 1.5 km of streets within the Town of Grimshaw. Client: Town of Grimshaw.
- ❖ **Clear Hills County**
  - **Clear Prairie Road Phase IV**, Clear Hills, AB (2009): This project included 7 km of base and pave west of Worsley.
  - **Township Road 870**, Clear Hills, AB (2009): This project included 6 km of base and pave east of Worsley.
- ❖ **Northern Sunrise County**
  - **South Harmon Valley Road**, Northern Sunrise County, AB (2009): This project included 8 km of base and paving north of Nampa.
  - **North Harmon Valley Road**, Northern Sunrise County, AB (2008): This project included 8 km of base and paving south of Peace River.

### Paving

- ❖ **Highway 697:02/04**, Alberta Transportation, Peace Region, AB (2010): This project included 30 km of full depth reclamation, culvert liners, side sloping, intersection upgrades and paving.

- ❖ **2009 Overlay Program**, Northern Sunrise County, AB (2009): This project included 13 km of pavement overlay on four different roads within the Northern Sunrise County. One of the roads also included 1.3 km of grade widening, base, pave and overlay.

## **Grading**

### ❖ **Northern Sunrise County**

- **Township Road 810 West**, Northern Sunrise County, AB (2009): This project involved the grading of 6 km of road south of Nampa.
- **Township Road 810 East**, Northern Sunrise County, AB (2006): This project involved the grading of 3.5 km of road east of Reno.

### ❖ **Alberta Transportation**

- **Highway 743:02**, Alberta (2011-2012): This project involved 11.5 km of grading, intersection realignments and culvert installations.
- **Highway 881:20**, Alberta (1997): This project included grading of 18 km of road north of Lac La Biche involving the movement of over a million cubic metres of earth material. Also involved were the installation of numerous large diameter culverts of significant invert length. The construction of the alignment and installation of culverts was challenging given the sandy/silty material in the area.

## **Drainage Projects**

### ❖ **County of Northern Lights**

- **Deadwood Drainage**, County of Northern Lights, AB (2009): This project included 3 km of channel rehabilitation and culvert installations including the installation of three bridge files in addition to erosion control soil covering and heavy rock rip rap.
- **North Manning Drainage**, County of Northern Lights, AB (2008): This project included 2.5 km of channel rehabilitation and culvert installations including erosion control soil covering and heavy rock rip rap.

# **GLEN ARMSTRONG CONSTRUCTION LTD.**

## **IGNUS RAS**

### **ASSISTANT PROJECT MANAGER**

## **PROFILE**

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Qualified as an Industrial Engineer, Ignus has spent over 15 years in various professional and managerial roles in various industries. He has a strong background in planning, Six Sigma and continuous improvement methodologies, project management as well as budgeting.

In his current position, he is responsible for estimating and tender preparation, project supervision and delivery, material procurement, cost control, contract negotiations and safety coordination.

Ignus has a proven track record in managing teams to achieve business objectives and deliver on project milestones, while building a strong relationship with the team and stakeholders.

## **EDUCATION**

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Bachelor Degree, Industrial and Systems Engineering, University of Pretoria, South Africa	2005
Management Development Program, University of South Africa – Graduate School of Business Leadership, South Africa	2012

## **ADDITIONAL TRAINING**

WHMIS	2021
Transportation of Dangerous Goods	2021
First Aid, Canadian Red Cross	2021

## **CAREER**

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Estimator / Project Manager, Glen Armstrong Construction Ltd.	2021 - Present
Manager: Client Services, Dealer-FX	2018 - 2021
Manager: Production Planning and Central Control Room, Nissan Motor Corporation, South Africa	2013 - 2018
Senior Production Planner and Production Control Analyst, Nissan Motor Corporation, South Africa	2012 - 2013
Business Improvement Engineer, Nissan Motor Corporation, South Africa	2008 - 2012
Industrial Engineer, Nissan Motor Corporation, South Africa	2006 - 2008



## PROFESSIONAL EXPERIENCE

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### Project Involvement

- **Grovedale Water Supply System – Civil Work**, Grovedale, Alberta (2021): Project consisted of access road construction, installation of CSP culverts and chain link fence.
- **BMA 6030-21 BF71821 Hines Creek Hwy 682**, Hines Creek, Alberta (2021): Project consisted of the repair of steel struts, partial depth repairs, sideslope restoration and the installation of RipRap armouring along restored slopes.
- **Pleasantview Seniors Lodge**, High Prairie, Alberta (2021): Installation of 133 metres of sanitary main line, sanitary manholes and tie-in to existing manhole. Installation of 86 metres of storm main line, storm manholes, catch basins and tie-in to existing manhole.
- **Blue Wave Energy**, Peace River, Alberta (2021): Installation of water service including the demolition and removal of existing cistern and septic tank, chlorination and testing of new system.
- **Range Road 232 - Bridge File 73498, Deadwood**, Alberta (2021): Installation of 1800mm x 22 metre CSP culvert, salvage of existing culverts, grading and road restoration.
- **7810 Poplar Drive Water Service**, Grande Prairie, Alberta (2021): Project consisted of hot tap valve installation on 200mm AC water main, installation of 200mm PVC water service and blow off assemblies, testing and commissioning of new system.

# GLEN ARMSTRONG CONSTRUCTION LTD.

## AVARD O'BRIEN

FOREMAN

### PROFILE

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Avard O'Brien is a Foreman for Glen Armstrong Construction Ltd. He has worked in the construction industry for over 25 years with over 20 years related to water and sewer installation and rehabilitation.

In his current position, he is responsible for project supervision and delivery, material procurement, cost control, surveying, contract negotiations and safety coordination.

Avard supervises the site staff and provides technical leadership to field staff. Avard excels in site and project management bringing extensive experience related to underground utilities installation. With his extensive knowledge, Avard also has the ability to accurately interpret project plans and effectively communicate his expectations to field staff.

### EDUCATION

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Hants Community College	1990 - 1991
Welding and Fabrication	1991 - 1993

### ADDITIONAL TRAINING

WHMIS	2020
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### PROFESSIONAL AFFILIATIONS

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Alberta Roadbuilders Heavy Construction Association	ARHCA
Alberta Construction Safety Association	ACSA
Western Canada Roadbuilders Association	WCRA

### CAREER

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Foreman, Glen Armstrong Construction Ltd.	2018 - Present
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### PROFESSIONAL EXPERIENCE

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#### Water & Sewer Installation

- **Neighbourhood Infrastructure Renewal Program**, Peace River, Alberta (2019/2020): This multi-year project consisted of the replacement of underground infrastructure including water, sanitary sewer, storm sewer, hydrants, valves and associated appurtenances.
- **Whitefish Contract 2 – Bellis – Whitefish**, Bellis, Alberta (2018/2019): The project consisted of the installation of 37 kilometres of 250mm and 300mm HDPE water main, valves, air relief chambers, blow-off assemblies and associated appurtenances as well as numerous creek and environmentally sensitive area crossings. Testing and commissioning.