

M. J. REHMAN, P.Eng., PMP

PROFESSIONAL PROFILE

- Project manager and licensed Civil engineer with over sixteen years of experience in construction and project management of multi-billion dollar infrastructure projects and public funded transit programs
- Extensive experience in managing multi-disciplinary design team consisting of planners, engineers, design consultants, internal & external stakeholders, preparing capital work plans, risk management, contracts preparation and procurement, contract close-out and cost sharing agreements
- Possesses valuable experience building strategic relationships, managing complex major projects from inception to completion with focus on customers and clients satisfactions, streamlining functions, identifying & establishing process improvements that drive efficiency and ensure ontime and within budget completion of projects
- Sound knowledge and experience in heavy construction including commuter and freight railways, light rail transits, rail grade separations, tunnels, bridges, highways, pilings, caissons, retaining walls, railway maintenance yards/carhouse, platforms and railway station buildings
- Experienced working as a member of **Steering Committee** and member of the **Board of Directors**
- Currently enrolled in **MBA programme at Strathclyde Business School, UK**, one of the top ranked University in the world with AMBA, AACSB and EQUIS accreditations
- Project Management Professional (PMP) and member of Project Management Institute (PMI)

PROFESSIONAL EXPERIENCE

TORONTO TRANSIT COMMISSION (TTC)

SEPTEMBER 2008- APRIL, 2014

PROJECT MANAGER-LRT

- **Project Manager–LRT, Toronto Transit Commission, Toronto, ON, Canada**
Managed new construction, rehabilitation and major modifications of several streetcar/Light Rail Transit projects in the City of Toronto as TTC's Project Manager including the design and construction of Queens Quay-LRT and Cherry Street-LRT projects, a Waterfront Toronto's initiative to transform the Toronto's main waterfront street to one of the greatest streets in the world. Was member of the Steering Committee overseeing the designs for the revitalization of Queens Quay project. Represented TTC at coordination meetings with external stakeholders for the coordination of major capital projects in the City of Toronto to minimize inconvenience to the public during the construction. Managed multi-disciplinary team consisting of TTC internal departments, various City departments, design consultants, third parties and utilities during the various phases of project from planning, environmental assessment, design, regulatory approvals, procurement and construction through to commissioning. Responsible for managing capital program including preparation of multi-year capital schedule and budget, procurement and preparation of contract documents and RFP. Management of construction contracts and delivering projects in accordance with budget, schedule, quality and safety requirements by directing and approving the scope of work for consultant design assignments and construction contracts, approving contract or scope change, monitoring & maintaining schedules and approval of all progress payments..

SENIOR PROJECT ENGINEER-LRT

- **Senior Project Engineer, Transit City- Toronto Transit Commission, Toronto, ON**
Worked in a program management team responsible for managing over **\$10 billion** LRT projects in City of Toronto as a Senior Project Engineer on over a **\$1 billion** project to build a new 14 km Light Rail Transit. Scope of work included building a designated track ROW for future LRT, OCS and traction power, substations, signal and communication systems, platforms, road and bridge widening, utilities relocations and a grade separation on GO Transit line. Responsible for managing the multi-disciplinary team consisting of TTC- operations and engineering, various City of Toronto departments, design consultants, and third parties. Involved in development of complex design solutions for roadway and track alignments on a 36m LRT-ROW, relocation of complex network of underground utilities and integration of Urban Design components into the LRT cross-section. Planned and prepared the overall phasing of the 14km LRT project including developing a consolidated schedule to commission TTC revenue service in 2014. Management of consultants including approving work plans, design reviews and approvals, design changes, scope changes, preparation of tender documents, RFQ & RFP and management of capital budget.

Toronto Transit Commission is a public sector organization owned and operated by the City of Toronto. TTC is the third largest public transit system in North America with an annual ridership of over 480 million.

HATCH MOTT MACDONALD (HMM)
PROJECT ENGINEER

APRIL 2004-AUGUST 2008

- **Project Control Specialist, Southeast Collector, York Region, Markham, ON**
Project Control Specialist for a **\$500 million** trunk sewer project to build a 15km long tunnel by using 4 earth pressure TBM. Prepared the work plan for approvals and overall project schedule with detailed timelines for pre-engineering, preliminary and final design submissions, procurement, construction and commissioning of the project. Documented project budget, created WBS, assigned resources, implemented cost control procedures, cash flow forecasts, preparing project cost reports, tracking direct and indirect costs and monthly progress reports.
- **Tunnel Engineer/Monitor, Niagara Tunnel Facility Project, OPG, Niagara Falls, ON**
Worked on a **\$1 Billion** EPC project for constructing one of the world largest 10.4km long and 14.4m diameter tunnel to provide additional water from Niagara River to OPG's existing power generating Station to increase power generation capacity. Responsible for monitoring contractor's mining/boring operations and preparing progress reports.
- **Construction Coordinator, GO Transit Rail Improvement Program (GO TRIP), Toronto, ON**
Construction coordinator in a program management team consisting of Hatch Mott MacDonald, Giffels, and Marshal Macklin Monaghan for over **\$1 billion** GO Transit rail improvement and expansion program in GTA. Managed construction projects including site supervision, representing owner onsite, project control, budget forecasts, progress reports, coordination with consultants, design reviews, liaisons with railways, public and regulatory agencies.

Selected projects from GO TRIP program management

- **Barrie- Bradford Tracks Upgrade, GO Transit (GO TRIP)**
Completed \$20 million tracks upgrade/rehabilitation project between City of Barrie and Bradford. Upgraded 20 miles of tracks including sledding, ballasting, distressing and resurfacing of tracks, installing 13 miles of new CWR, 400 thermite weldings, 32000 new ties, culverts widening and replacements. Installed and commissioned 22 new crossing warning systems and signal bungalows along the route.

- **Barrie Layover Facility, GO Transit (GO TRIP)**
Completed \$11 million railway layover facility for providing overnight parking to 6 GO trains. Project consisted of building 6 way sides for locomotives to plug into overnights, track works, underground cables and duct banks for communication, signal and power supply, crew and electrical buildings, asphalt pavement, platforms, switch heaters and lighting.
- **Barrie South GO Railway Station, (GO TRIP)**
Responsible for building a new \$3 million railway station in City of Barrie to provide the commuter train service from Toronto to City of Barrie. Built the new railway station building including grading, drainage, watermain, platform, station building, parking lot, bus loop and passenger facilities room.
- **Bradford GO Station Platform Upgrade, (GO TRIP)**
Completed 2 million station upgrade project by adding a new platform, expanding the existing platform and parking lot, relocating box culverts and building retaining wall.
- **West Toronto Diamond- Enabling Project, GO Transit (GO TRIP)**
Worked on an advance \$16.5 million utilities relocation project to enable the \$ 120 million main contract for rail to rail grade separation. Project involved relocation of complex network of buried utilities under tracks, installation of new 1,150m of new 1500mm sewer and 1050m of new 1200mm watermain.
- **Snider Diamond Rail to Rail Grade Separation, GO Transit (GO TRIP)**
Completed this \$20 million rail to rail grade separation project by constructing the largest **through plate girder** TPG bridge in north America (34m) for GO Transit over CN freight line. This project consisted of raising grades, **10,000 square metres of MSE wall**, caissons, sheet piling, timber lagging for live load protection, culvert extension, new railway tracks and rail protection wall.
- **CN Grade Separation, Ministry of Transportation Ontario, St. Catharines, ON**
Worked on a double mainline, through plate girder (TPG) bridge over the QEW at Sandplant Hill near Niagara Falls. This **\$55 million** project included construction of new structure and temporary realignment of highway connecting Canada to USA. Track protection consisted of **H piles with timber lagging, dry drilled tieback anchors and prefabricated whalers**. Phasing of this project required both mainlines and all lanes of highway to remain in service.
- **Q.I.T. Railway Bridge Inspection, Havre St Pierre, Quebec**
Visual inspection of 4 bridge structures on a private railway connecting one of the largest Titanium mine in the world to the port. Bridges includes deck plate girders, through plate girders, through trusses, deck trusses and various concrete spans.
- **GO Railway Layover Facility-Site development, Milton, ON**
Site development project for GO layover facility in Milton. Project included subgrading, 300m segmental unit block retaining wall, asphalt roadway, 700m of water main and security fencing. .
- **Beaver Creek Bridge Replacement Project at Alaska Highway# 1, Beaver Creek, Yukon**
Completed **\$5 Million** bridge replacement project. Replaced the existing bridge with a new 68m (228 ft) span steel plate girder bridge incorporating a concrete deck and integral abutments. Project involved steel girder erection over creek, **H-Steel Piling, MSE Wall**, temporary detours, approaches, bridge move, temporary shoring etc. Responsibilities included day-to-day site supervision, verification and approval of progress payments, construction coordination, progress reports and approval of construction procedures and materials.
- **Beaver Creek Airport, Beaver Creek, Yukon**
Inspection for runway pavement at Beaver Creek Airport, Yukon on Alaska Highway.

Hatch Mott MacDonald is a joint venture between Hatch Engineering and Mott MacDonald leading consulting engineering firms in the world and having extensive experience in transportation, tunnels, water conveyance, gas pipelines, buildings and utilities.

HOLLOWAY PHILP CONSTRUCTION Ltd., MILTON
CONSTRUCTION MANAGER

MAR 2003 – DEC 2003

- Construction Manager for a **\$2 Million** bridge rehabilitation project on **Highway 401**. Preparing and administering budgets, developing and implementing policies and procedures, plan and direct daily operations, schedule control, allocating work to subcontractors, develop and implement quality control plan. Coordination with **M.T.O. Officials** and Consultants and monitor any changes to the **"Scope of Work"** and prepare necessary change orders. Bridges were post-tensioned, reinforced concrete and steel structural bridges. Project involved deck replacements, jacking bridge, pier and abutment repairs, realignment and pavement of highway.
 - **Wellington County Road #36 Bridge on Highway 401, Guelph, ON**
Structure rehabilitation of the bridge including removal of concrete from deck and abutments, temporary decking, deck pour, new diaphragms and expansion joints, resurfacing pier caps and wing walls, soffit repairs, removal and placement of curbs, catch basins and sewerage pipes, jacking bridge, asphalt removal and pavements, grading, rumble strips grouting; removal and placement of new safety rails and new barrier walls, geotechnical investigation and report.
 - **Hopewell Creek Bridge on Highway 7, Kitchener, ON**
Structure rehabilitation of the bridge including concrete removal from deck and placement, concrete removal from abutment walls and placement, soffit repairs, removing and placement of curbs, asphalt removal and pavements, temporary pavement markings on Hwy 7, removal and placement of new safety rails and new barrier walls and bridge waterproofing.
 - **Puslinch Concession Road #7 Bridge on Highway 401, Guelph, ON**
Structure rehabilitation of the bridge including removal and placement of concrete from abutments, resurfacing pier caps and wing walls, soffit repairs, removing and placement of curbs, catch basins and sewerage pipes, asphalt removal and pavements, grading, removal and placement of new safety rails, new barrier walls.

Holloway Philp Construction Ltd. is a General Contractor mostly working on Municipal and MTO Bridges & Roads Projects

STRUCTURAL TESTING LABORATORY BOCHUM UNI, GERMANY
ASSISTANT ENGINEER

NOV 2000- DEC 2002

- Worked in Europe's largest structural steel testing laboratory
- Analysis and design of steel and concrete structures
- Compiled test results from for the vertical and horizontal load tests and developed reports
- Architectural and mechanical drafting on **AutoCAD 2000**

Structural Testing Laboratory Is A Part of Structural Engineering Division At Ruhr University, Germany and one the biggest concrete testing laboratory in Europe.

RELIANCE CONSTRUCTION, PAKISTAN
CONSTRUCTION ENGINEER

SEPTEMBER 1997- SEPTEMBER 2000

- Design and construction of residential and commercial buildings
- Construction and project management of several school buildings funded by Asian Development Bank in rural parts of Pakistan
- Completed several World Bank funded Municipal projects for culverts, drainage and sewerage systems
- Involved in every phase of construction including designing, planning, estimating, surveying and site supervision

Reliance Construction is a General Contractor Mostly Engaged With World Bank and Asian Development Bank Funded Projects

EDUCATION

- Enrolled in MBA programme at Strathclyde Business School, Glasgow, UK 2013-2015
- Bachelor of Civil Engineering, NED University of Engineering & Technology, Pakistan, 1997

VOLUNTEER EXPERIENCE

- Worked voluntarily as a Member Board of Directors at Routes Connecting Communities (Transit Georgina), a non-profit organization, providing free transportation to the needy people with over 12,000 rides annually