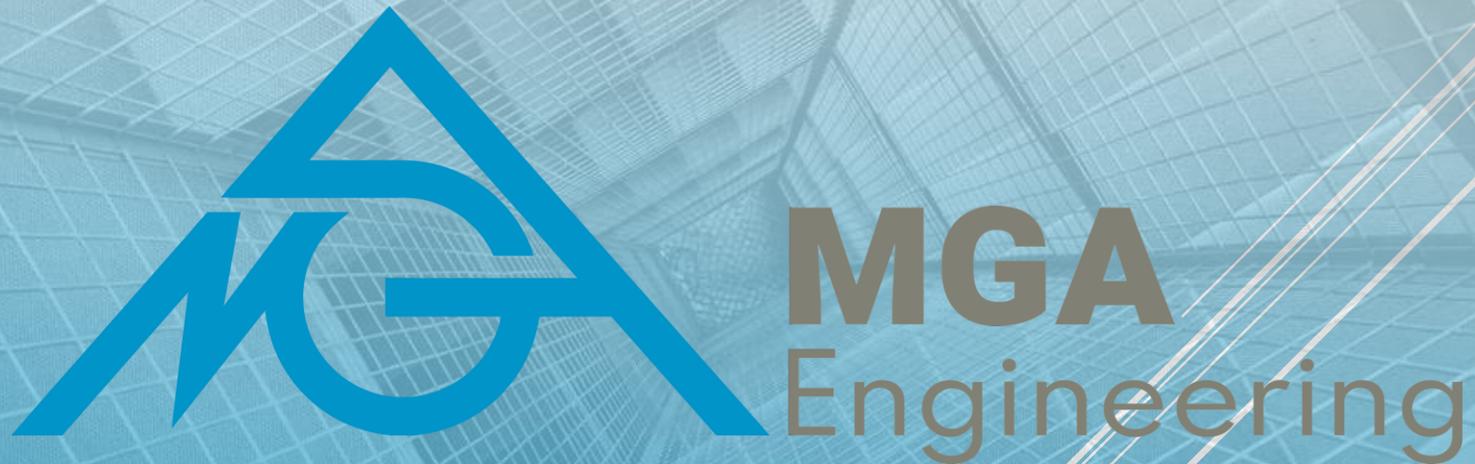


Civil and earthworks



MGA Engineering Inc.

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ABOUT MGA

MGA Engineering Inc. is a master designer of structural and mechanical systems, utilized across the globe in the marine, mining, energy, infrastructure, and building sectors. Founded in 1996, the firm is headquartered in Calgary, Canada, and operates regional offices in Canada, USA, and Egypt. Throughout the decades, MGA has lent its expertise to owners, operators and fabricators of large-scale bulk materials handling equipment such as conveyors, ship loaders, stackers/reclaimers, crushers, storage tanks, vessels and transfer stations.

MGA's civil engineering and earthworks experience combines MGA-led projects and those of its commercial partners Morad Ghaliand AEMC Ltd.



CLIENT SNAPSHOT

CIVIL ENGINEERING

- ▶ Water & Wastewater Systems
- ▶ Heavy Civil Infrastructure
- ▶ Access and Urban Roads
- ▶ Road Realignment & Rehabilitation
- ▶ Interchanges and highways
- ▶ Bridges
- ▶ Ports and harbours
- ▶ Foundations and piles



EARTHWORKS

- ▶ Site Grading, Earth Balance
- ▶ Earth retention systems
- ▶ Tailings and ponds
- ▶ Drainage and stormwater
- ▶ Trenches and dams
- ▶ Trenchless crossings and tunnels
- ▶ Grading and roadways
- ▶ Site Planning, Design and Servicing

- ▶ American Dream Meadowlands shopping mall and entertainment facility
 - ▶ Structural design of the new expansion, heavy concrete work, foundation piles and pile cap design, flood mitigation and proofing, below grade piping layout and integration into the foundation system. TIC value: \$1.6B
- ▶ Site grading and earth balance
 - ▶ Hanson Industrial Park, Deerfoot South Phase 2 Commercial/Industrial Subdivision site, Sundance Business Park, Douglass Centre Business park, WestJet Site, Deerfoot South phase 3, McCall North Trade park, McKnight Trade park, Airport Trail Interchange and Roadway Extension, Golden Ears Bridge and roadway, Highway 3, Yellowknife Hwy.
- ▶ Site grading design
 - ▶ Golden Ears Bridge and Roadways, McKnight trade park, Calgary Airport
- ▶ Road Realignment & Rehabilitation
 - ▶ Peninsula Road Rehabilitation (Marathon Ontario), Rehabilitation of 97 Street , City of Grande Prairie, McArthur River Mine Site (Saskatoon, SK), Cigar lake Mine Site (Saskatoon, SK),
- ▶ Grading and Roadway
 - ▶ Highway #3 , Northwest Territories for Ledcor/DRDC

SALIENT PROJECTS

- ▶ Mill Creek End-of-Pipe Stormwater Management (City of Edmonton)
- ▶ Hurstwood Wet Pond and Storm Improvements (City of Edmonton)
- ▶ Mills Avenue Stormwater Management (Regional Municipality of Wood Buffalo, Alberta)
- ▶ I-4/Lee Roy Selmon Interchange (TAMPA, FL)
 - ▶ Approximately 1.5 Million SF of Bridge Deck, 21 Different Bridge Ramps
 - ▶ Mostly Single Box Girder Ramps, Mostly Single Column Piers
 - ▶ Open Road Toll Gantry
 - ▶ 210 Spans Total, 100 Spans Built in Span-by-Span, 110 Spans Built in Balanced Cantilever, 4000 Precast Segments
 - ▶ Post-Tensioning – 9,000,000 LBS, Reinforcing Steel – 19,000,000 LBS, Concrete – 95,000 CY

SALIENT PROJECTS

- ▶ Civil engineering
- ▶ Mechanical engineering
- ▶ Structural engineering
- ▶ Bridge engineering
- ▶ Hydraulic engineering
- ▶ Transportation engineering
- ▶ Railway engineering
- ▶ Marine engineering
- ▶ Water treatment design
- ▶ Flood mitigation and drainage design
- ▶ Building Information management (BIM)
- ▶ Construction management
- ▶ Program and project management

EXPERTISE

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