infraMOD™
a saskarc company



YOUR SOE EXPERT

Reduce Cost | Improve Schedule | Minimize Risk

INFRAMOD.COM

ABOUT INFRAMOD

For over 35 years, our strong commitment to innovation and continuous improvement has been a driving force leading our company through several expansions. From our origins as Saskarc, we transitioned to infraMOD to better reflect our focus and expertise in excavation support for large infrastructure projects. Today, we are known as a leader in support of excavation, providing clients in North America with a **total package solution** covering walers and struts, traffic and equipment decking, and ground anchoring solutions. Using our proprietary and patent pending methodology, infraMOD uses our engineering & design skills to provide exceptional steel solutions that have delivered up to **85% savings in installation time** while generating more than a million dollars in net savings for one excavation. Selecting us as a partner early in your project helps us guarantee the shortest project schedule, minimize risk and achieve the lowest total installed cost.



Solutions

infraMOD™ is an industry-leading specialist, providing innovative solutions to infrastructure projects.



Expertise

With our extensive project experience and infraMOD™ methodology, we deliver unique solutions, providing the lowest total installed cost, shortest overall project schedule, and lowest risk.



End-To-End Experience

We seamlessly blend expectations, manufacturing, design, and construction in an agile and responsive end-to-end experience.

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Additionally, the designs showcased herein have been developed using infraMOD's proprietary and innovative modular methodology, which is currently under patent pending status. Any unauthorized use, reproduction, modification, or implementation of this design or methodology is strictly prohibited and may result in legal action.

For more information or licensing inquiries, please contact us directly.

INFRAMOD
FACILITIES

- 3 Modern custom fabrication shops
- 25 Acres of prepared yard
- 95,000 Total square feet
- 100+ Employees
- Automated steel processing line
- 2 Robotic fabrication lines
- 10 Overhead cranes, 100T single lift capacity, 31' under crane hook

- Oxbow Headquarters
  Office & Fabrication Facility
- Other Locations in:
  - Toronto, ON
  - Edmonton, AB
  - Regina, SK
  - Vancouver, BC
  - Charleston, SC



PROCESSING AND

ROBOTIC EQUIPMENT

infraMOD™ has a state-of-the-art automated processing plant that seamlessly integrates into our fabrication area. This includes a fully automated beamline feeding into a pre-blaster, as well as a plate processing line capable of cutting and drilling, along with an angle line. This automated equipment allows steel to smoothly pass through processing and into the robotic fit and weld lines.

SUPPORT OF **EXCAVATION**

Reducing costs, improving schedule & minimizing risks in SOE projects are what we do best.
Experts in excavation support projects in North America, infraMOD™ offers modular solutions to solve highly complex temporary support of excavation problems.

These could include large infrastructural projects for transportation like subways, water and wastewater tunnels, nuclear projects, and commercial projects.

BENEFITS OF INFRAMOD'S SOLUTIONS

Total Package Solutions
We provide all your bracing, shoring and anchoring solutions under a single roof, ensuring your access to standardized high-quality solutions without spending time on sourcing through and managing multiple suppliers.

Designed Success
Thanks to our infraMOD™ methodology, and engineered design capabilities, our support of excavation (SOE) steel solutions create a safer, faster, and more cost-effective construction process.

Site Experience
Our decades of experience help us design and plan accurately for various site conditions. Reducing site specific challenges that otherwise would cost thousands of dollars as cranes and workers sit idle.

Cost Effective Steel Sourcing
While our engineered solutions save you time, our global steel manufacturing networks give us an edge sourcing material at competitive costs that are difficult to access.



VANCOUVER BROADWAY SUBWAY PROJECT



Constructability First Solutions
We reduce unwelcome surprises on the job site by planning in advance for access, availability of and compatibility with construction equipment erection sequencing, coupled with strong coordination & clear communication.

Modular Solutions Reducing Risk
Offsite, modular fabrication that forms the basis of the infraMOD™ methodology means lower injury risks to workers on site, fewer delays due to inclement weather, and therefore reduced work stoppage risks.

SUPPORT OF **EXCAVATION**

Early Involvement Gains
With early involvement in excavation support using our proprietary infraMOD™ process, we have helped projects reduce costs, improve project schedules, and minimize risks.

infraMOD'S SOE SCOPE
If a project requires cut & cover or vertical shaft excavation, infraMOD™ is equipped to supply:

- Modular Reusable Walers & Struts
- Modular Custom Walers & Struts
- Temporary Traffic Decking
- Temporary Equipment Decking
- Ground Anchors
  (Tiebacks, Tiedowns, Micropiles, Soil Nails, Strand Anchors)
- Raw H Beam and W Beam Piling Materials

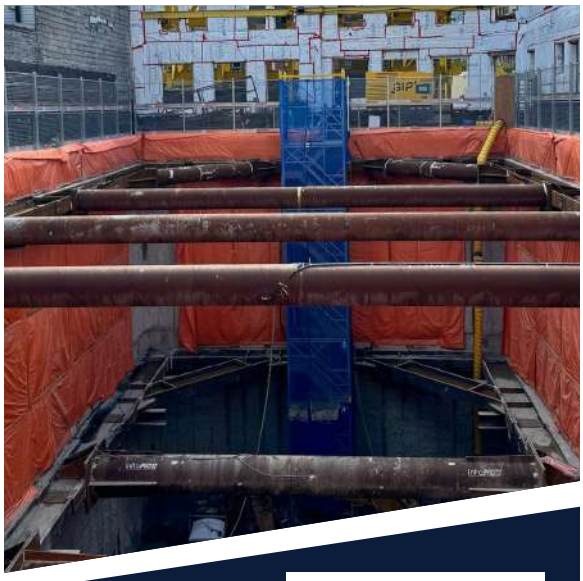




ONTARIO LINE SOUTH PROJECT

MODULAR
WALERS AND STRUTS

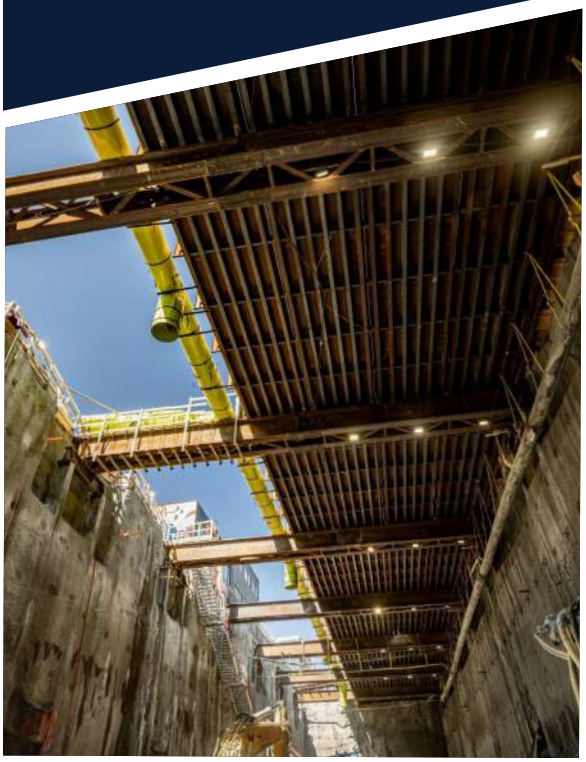
- Simple bolted connections between components.
- Elimination of welded shear connections between waler beams and king piles, minimizing site welds often performed in difficult conditions.
- The waler and strut system can be trial assembled in our shop, ensuring perfect fit-up during the installation process.



MODULAR
TRAFFIC DECKING

- Easy changes to installation sequences.
- Quick installation and removal.
- Ability to quickly reconfigure layout of decking panels or provide quick temporary access through excavation.
- Support beams for modular decks can also serve as support of excavation elements, reducing overall quantity of temporary steel required.
- Highway rated Traffic Barriers (Guardrails).
- Low maintenance, slip resistant deck coating.
- Quiet operation.
- Aesthetically pleasing to the public.

SCAN TO LEARN MORE



GROUND ANCHORS

- Design-smart anchoring systems tailored to site-specific ground conditions, loading demands, and excavation geometry.

- Fully integrated solutions that coordinate seamlessly with shoring, bracing, and excavation sequencing.

- Constructability-led designs that account for drilling access, installation angles, and field tolerances from the outset.

- Repeatable, well-defined installation details that minimize site modifications and reduce execution uncertainty.

North American Ground Anchors include: tie-backs, tie-downs, micropiles, strand anchors, DCP soil anchors, SDP soil anchors, and plates & trumpets.



OUR APPROACH

infraMOD™ analyzes every project to define the critical requirements that maximize value. We continuously invest in our people, systems, work environment, technology, and software to provide our customers with the best service, support, and innovative solutions to meet their requirements. Our strict attention to cost-effective material selection through our global supply chain, together with our comprehensive inspection process and state-of-the-art automation technology, ensures that we deliver the highest quality projects.

With the breadth of experience infraMOD's team and our partners hold, we continually deliver a 'can-do,' 'solutions-based' approach, where no project is too difficult and there is always a solution to every challenge. Contact us today to learn the innovative approach we will take to solve your project challenge(s) and deliver a cost-effective solution.



DESIGN/ENGINEERING

Traditional competitive bidding for infrastructure projects often leads to inefficient, expensive designs. infraMOD™ methodology prioritizes upfront design, leveraging expert engineers and automated processes to ensure the most efficient and cost-effective fabrication and installation. This approach significantly reduces total installed costs, minimizes project risk, and shortens timelines.

CONSTRUCTABILITY

infraMOD™ treats constructability as a risk-management and productivity discipline. Our temporary steel designs are driven by purpose and load demands, ensuring safe, efficient erection, equipment compatibility, practical field connections, and stability throughout all construction stages.

GLOBAL SUPPLY CHAIN

infraMOD™ has key partnerships in place with major international steel mills in Asia, the Middle East, Europe, and North America. We select the best mill for the project based on the project schedule and requirements. This allows us to meet project sustainability and schedule requirements at the lowest cost.

OPTIMIZED FABRICATION

To ensure that we create the best recipe for each project, infraMOD™ creates a design that takes advantage of our automated/robotic capabilities, as well as our international mill/fabrication partners. All work is fully compliant with project requirements and any work fabricated outside Canada is 100% backstopped by our Canadian fabrication operation.

LOGISTICS MANAGEMENT

Typically, large-scale infrastructure projects occur in congested urban areas with limited space. infraMOD™ manages the overall logistics process to ensure that the work is prepared well ahead of when it is required on site. It is staged offsite at one of our fabrication locations or local yards and then delivered to the project jobsite for just-in-time delivery.

INSTALLATION EFFICIENCY

The installation process is designed for maximum efficiency, ensuring accurate fit-up during on-site assembly. Modular systems can be trial assembled in the shop prior to delivery, and bolted connections are used wherever possible to minimize the need for specialized labor and equipment. This approach accelerates project timelines, simplifies installation, reduces on-site resource demands, and mitigates risks, resulting in substantial savings of time, effort, and costs.

INDUSTRY CHALLENGES

Rising Project Costs

Large infrastructure excavations face escalating costs driven by labour intensity, access to skilled resources, rework, inefficient installation methods, and late-stage design changes. When constructability is not considered early, even competitively priced steel solutions can result in high total installed cost.

Schedule Pressure

Early works delays cascade through the entire project. Poorly coordinated support of excavation systems, unclear installation sequencing, and field-driven modifications often slow excavation progress and disrupt downstream trades, putting critical milestones at risk. Weather exposure, restricted work zones, and sequencing conflicts introduce delays that threaten overall project completion timelines.

Execution Risk

Complex excavation environments introduce safety, coordination, and performance risks. Inadequate planning around access, sequencing, and site constraints increases exposure to delays, redesigns, and unplanned work, impacting both safety and certainty of delivery. In-field construction increases safety exposure, quality variability, and reliance on specialized resources.



Aerial view of the Broadway Subway Project

INFRAMOD
SOLUTION

Reduced Total Installed Cost

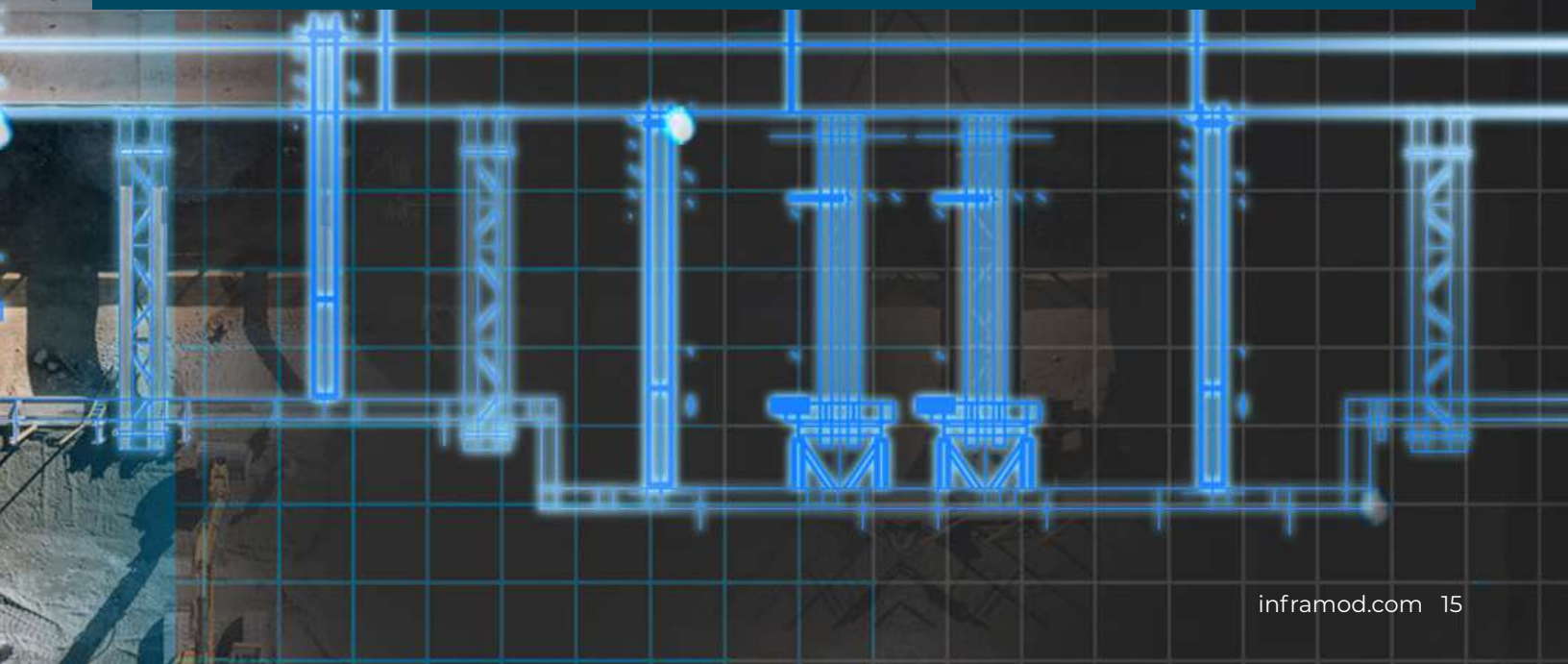
infraMOD designs modular support of excavation solutions with constructability built in. By reducing labour intensity, providing accurate project estimations, minimizing rework, and simplifying installation thorough our proprietary infraMOD™ methodology, we deliver lower total installed cost, not just competitive steel pricing.

Faster Installation

Our engineering-led approach aligns design, sequencing, and installation from the outset. Clear installation plans and optimized systems allow excavation to progress faster, supporting early completion and smoother handoffs. Our methodology ensures greater precision while delivering components that install up to 85% faster.

Mitigated Risk

infraMOD proactively manages risk by designing for real site conditions. By addressing access, sequencing, and coordination early, we reduce safety exposure, limit field changes, and deliver predictable, buildable solutions that perform as intended. Fabricating the steel solutions in our state-of-the-art manufacturing facility using infraMOD's modular methodology reduces risks of on-site accidents, weather delays and unplanned costs.



CASE STUDY

Ontario Transit Group

infraMOD™ has been awarded more than $65M of scope for the Ontario Transit Group (OTG) to provide critical support for the Ontario Line, one of Canada's largest transit infrastructure projects in Toronto.

The North and South Ontario Line involves building nearly 16 kilometers of new rail and 15 stations to relieve congestion. The downtown station construction requires deep excavations supported by complex temporary waler and strut systems.

infraMOD's Role: infraMOD™ used its proprietary infraMOD™ methodology to design, fabricate, and deliver prefabricated modular waler and strut systems at seven key stations (including Exhibition, Queen, King Bathurst and Queen Spadina stations). This approach successfully reduced site activity, simplified installation, minimized project risk, and reduced the total installed cost for OTG.





OWNER
Metrolinx

GENERAL CONTRACTOR
Ontario Transit Group

LOCATION
Toronto, Ontario

COMPLETION DATE
Work In Progress

TONNES
10,000

INFRAMOD SCOPE
Temporary Equipment Decking
Temporary Walers + Struts
Utility Supports
Raw Piling Materials and Pile Splicing
Overhead Protection Structure
Anchor Bolts

CLIENT VERIFIED RESULTS

QUEEN SPADINA NORTH STATION

ORIGINAL: OTG ISSUED FOR CONSTRUCTION DESIGN
Level A – Estimated/Planned **42 Shifts**
Level B – Estimated/Planned **63 Shifts**

INFRAMOD™ DESIGN METHODOLOGY BENEFITS
Level A – Actual **22 Shifts** (learning curve included)
Level B – Actual **9 Shifts**

Total Reduction of **74 shifts** x $15,000/shift
Net Savings of **$1,110,000** for this excavation.

June 12, 2025

Saskarc Inc
2 Marconi Road
Oxbow
Saskatchewan
CANADA

ONTARIO TRANSIT GROUP

Ref: BSP-BSCGP-SAS-CM-L TR-Ref

Attention: To Whom It May Concern

Subject: **Exhibition North Main Entry Excavation - Letter of Reference**

The Ontario Transit Group (OTG) awarded Saskarc the Support of Excavation (SOE) scope for the supply and delivery of the temporary early works at the North Main Entry Station, which will become an integral part of the Ontario Metrolinx Subway line upon completion. The use of Saskarc's infraMOD™ Design Methodology was essential in providing a steel design solution that reduced steel delivery and installation timelines, allowing site to safely progress with site excavations under tight time restrictions.

Saskarc has completed the following scopes:

- Connection design Saskarc's infraMOD™ Design Methodology and creation of shop drawings for strut and waler components, including a model and erection drawings
- Supply and Delivery of 13 Struts and 12 Waler Beams, 100 Tons

Some highlights/challenges of this project include:

- 8 Week delivery from Time of award to site delivery
- Customizing connections based on readily available material sizes

We highly recommend Saskarc as a partner on future projects relating to excavation support work that requires a professional and dedicated team, and the delivery of quality custom steel solutions under tight project timelines.

Yours sincerely,
Ontario Transit Group Inc.

Rafael Mesa Roldan
Project Manager



A REFERENCE FROM ONTARIO TRANSIT GROUP

> The use of Saskarc's infraMOD™ Design Methodology was essential in providing a steel design solution that reduced steel delivery and installation timelines, allowing site to safely progress with site excavations under tight time restrictions.

Rafael Mesa Roldan, Project Manager
Ontario Transit Group Inc.

CASE STUDY

Broadway Subway Project

The Broadway Subway Project is a 5.7 km extension of the Millennium Line, which provides efficient SkyTrain service to British Columbia's hotspots.

infraMOD™ was approached by Acciona-Ghella to provide a solution for design, supply, and delivery of a temporary traffic decking system. There were several components this project required, including Support of Excavation (SOE) at 5 stations, completing a cut and cover, and using a TBM to go between the stations. infraMOD supplied 7000 tonnes of fabricated steel, and an additional 4000 tonnes of raw material. Thanks to our relations with our steel mills, we were able to supply the raw piling material at a considerably lower cost than what our customer or the piling companies could purchase it for.





OWNER
Government of BC

GENERAL CONTRACTOR
Acciona-Ghella JV

LOCATION
Vancouver, British Columbia

COMPLETION DATE
2026

TONNES
11,000

INFRAMOD SCOPE
Temporary Traffic Decks
Steel Girders
Walers
Struts
TBM Supports
Gallow Beams
Pipe & W Beam Piling
Utility Trays

January 10, 2023,

Saskarc Inc
2 Marconi Road
Oxbow
Saskatchewan
CANADA

BROADWAY
Subway Project Corporation

Ref: BSP-BSCGP-SAS-CM-L TR-Ref

Attention: To Whom It May Concern

Subject: **Broadway Subway Project - Letter of Reference**

BSCGP (Partnership between Acciona and Ghella) contracted Saskarc to design, detail, supply, fabricate and deliver the bridge girders and deck panels, as well as multiple other supporting scopes for the five different stations of the Broadway Subway Project, a 5.7 km extension of the Millennium Line, from VCC-Clark Station to Broadway and Arbutus in Vancouver, BC between 2021 and 2022.

Saskarc has completed the following scopes:

- Design and creation of shop drawings for all steel including a model, and erection drawings.
- Supply, fabrication, and delivery of over 7000 tonnes of Bridge Girders and Deck Panels.
- Supply, fabrication, and delivery of multiple other scopes, such as Walers, Struts, Utility Supports, etc.
- Supply and delivery of over 11,800 meters and over 4000 tonnes of raw beam materials to be used for Piles.
- Surface preparation and application of over 140,000 sq ft of a specialized friction Deck Coating.
- Storage of fabricated components for the duration of site construction delays.

Some highlights/challenges of this project include:

- Adjusting the steel design to accommodate evolving design.
- Full penetration (CJP) welding of the W1100x499 Bridge Girders, including CJP welds at all 158 bolted splice locations.
- Shop test each W1100x499 Bridge Girder bolted splice connection to ensure seamless fit-up on site.
- Surface preparation and application of a specialized epoxy-aggregate Deck Coating to allow for the safe passage of vehicular traffic over the Deck Surfaces.
- Competitively sourcing and supplying over 4000 tonnes of raw beam materials.
- Adjusting to an accelerated site schedule while still delivering all steel on time for the installation schedule during periods of high freight demand.

Through the entire project, we worked with a very professional and dedicated Saskarc Project Team, who maintained the highest level of quality and safety and were dedicated to working as a team with BSCGP to ensure the successful completion of this project scope.

We believe they will achieve every success in any opportunities given to them in the future and highly recommend Saskarc for any large scale and/or complex metal fabrication projects.

Yours sincerely,

Broadway Subway Constructors General Partnership

Javier Sanz Mugica
Project Director



A REFERENCE FROM ACCIONA-GHELLA JV BROADWAY SUBWAY PROJECT

> Through the entire project, we worked with a very professional and dedicated Saskarc Project Team, who maintained the highest level of quality and safety.

Javier Sanz Mugica, Project Director
Acciona-Ghella JV

SAFETY & QUALITY COMMITMENT

REDUCE COST | IMPROVE SCHEDULE | MINIMIZE RISK

At infraMOD™, safety comes first in everything we do. Our goal is to have an incident and injury-free workplace.

infraMOD™ is fully committed to top quality workmanship, professional customer service, and on-time delivery, but NEVER at the expense of our CORE COMMITMENT to safety.

infraMOD™ strives to uphold the highest safety and quality standards, through:

Safety Above All Else

- Promotion of a safety culture.
- Safe work practices and habits.
- Lean, 5S, and continuous improvement to ensure clean, efficient, and SAFE facilities.

Top Quality

- Professional certification & quality assurance.
- Comprehensive project documentation.

Professional Customer Service

- Dedicated single point of contact throughout each project.
- Friendly, knowledgeable, and professional staff.

On-Time Delivery

- We make no commitments we cannot keep.



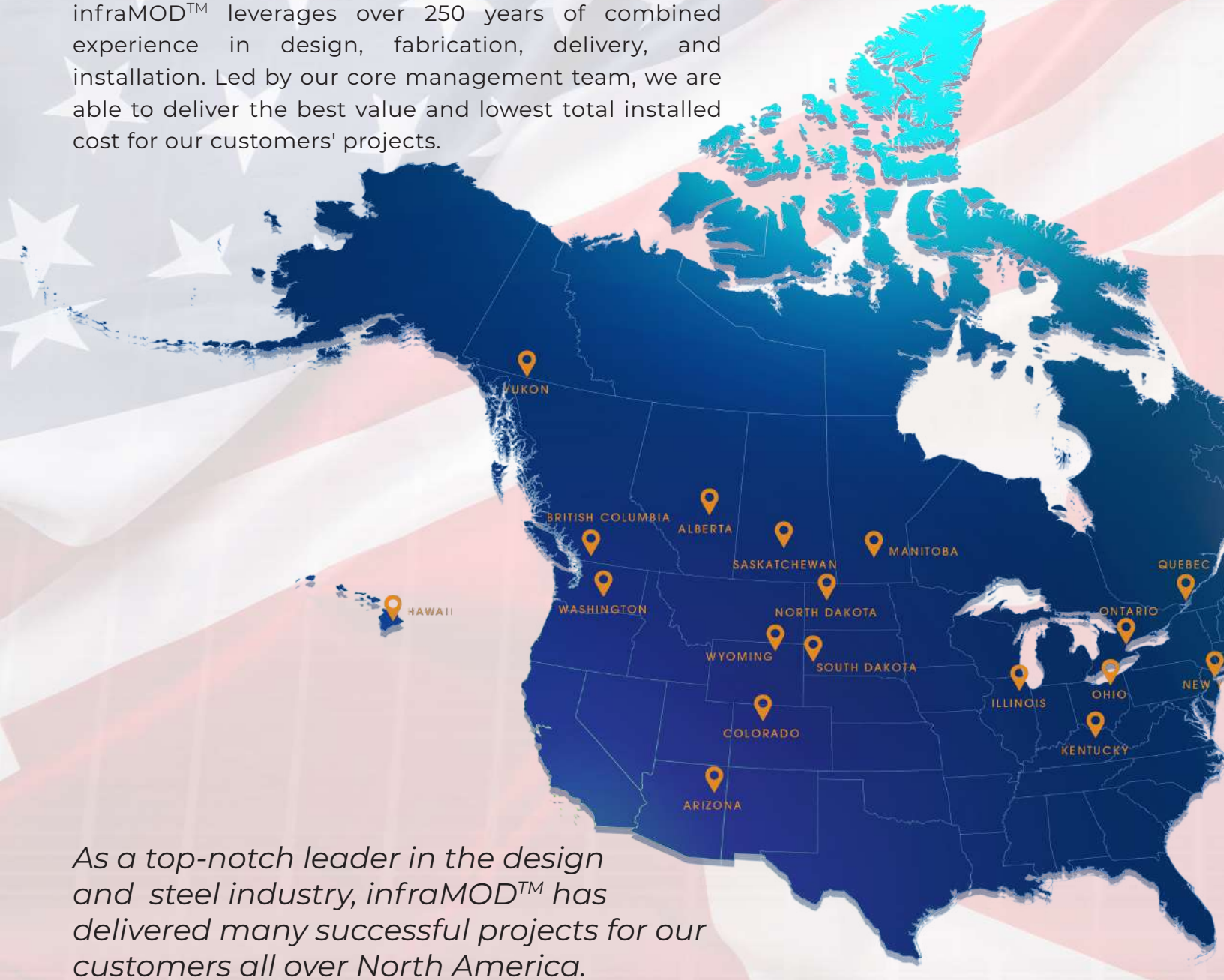
INFRAMOD **CERTIFICATIONS**

As a large-scale steel fabricator, safety & quality are at the centre of what we do. The certifications below guarantee our strict adherence to safety & quality standards:

- CWB CERTIFICATIONS TO CSA W47.1 DIV 2.1
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- ISO 9001:2015

INFRAMOD NORTH AMERICA

infraMOD™ leverages over 250 years of combined experience in design, fabrication, delivery, and installation. Led by our core management team, we are able to deliver the best value and lowest total installed cost for our customers' projects.



As a top-notch leader in the design and steel industry, infraMOD™ has delivered many successful projects for our customers all over North America.

OVER 35 YEARS OF EXPERIENCE

For over 35 years, infraMOD™, formerly Saskarc, has built its business on repeat customers and referrals. We offer turnkey solutions that reduce risk, maximize value, and shorten schedules. Below you will find several customers in various industries that infraMOD has established long-term business relationships with. We look forward to the opportunity to deliver the same high quality product and customer service to you and your project(s).



BROADWAY Subway Project Corporation

ONTARIO TRANSIT GROUP

SCARBOROUGH Transit Connect

GRAHAM

AECON

LEDCOR CONSTRUCTION

PCL

acciona

Ghella

GIP Green Infrastructure Partners

VINCI

ferrovial

HATCH

FCC Construcción

WALSH

AtkinsRéalis

STRABAG

US Army Corps of Engineers ®

Let's discuss your next project!

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infraMOD™
a saskarc company

SCAN ME

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