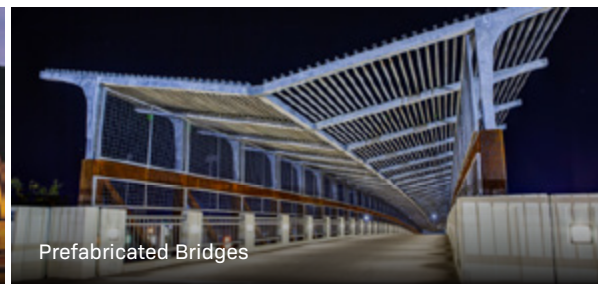


# U R B A N S C A P E S

EFFICIENT AND SUSTAINABLE INFRASTRUCTURE SOLUTIONS



Structural Plate Bridges & Tunnels



Prefabricated Bridges



Retaining Walls & Abutments



Sound Barrier Walls

[ailurban.com](http://ailurban.com)

THE AIL GROUP OF COMPANIES



# FINDING THE GOLDEN MEAN IN URBAN INFRASTRUCTURE

Growing towns and cities need to both create new infrastructure and replace old. Finding the 'sweet spot' between simple function and noteworthy design is, in and of itself, a daunting task. Balancing symmetry, proportion and harmony with specific urban environments is taking it to another level all together.

THE AIL GROUP OF COMPANIES



# URBANSCAPES THAT ESCAPE THE ORDINARY



Structural Plate Bridges & Tunnels



Prefabricated Bridges



Retaining Walls & Abutments



Sound Barrier Walls

## WHERE DESIGN AESTHETICS MEET ECONOMY AND SUSTAINABILITY

AIL's Urbanscape Infrastructure Solutions offer progressive urban planners and landscape architects the opportunity to bring enhanced aesthetics to their projects with the confidence that they are making both fiscally-prudent and environmentally-responsible choices that will benefit their communities well into the future.

Illustrations in this brochure are conceptual in nature and are not to be considered technical representations.

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## PART OF THE GREEN SCENE

Preserving and enhancing urban green space is important. Consider surrounding one of our Structural Plate Bridges or Tunnels with Green Walls created on battered, wire-faced configurations of our MSE Retaining Wall Systems. Inherently sustainable and resilient, these economical solutions provide many decades of maintenance-free service.



## GRACEFULLY-SWEEPING CURVES

If site geometries permit, bevelled ends are a very natural way to help a structure be one with the natural contour of the land. Sloped embankments can be left green or finished with natural stone. Any variety of architectural coping or collar treatments can be integrated to accentuate their gracefully-sweeping curves.



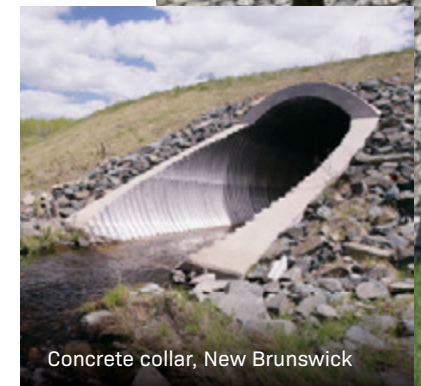
Custom safety rail, California



Custom textured collar, South Korea



Cast-in-place concrete with river stone, Poland



Concrete collar, New Brunswick





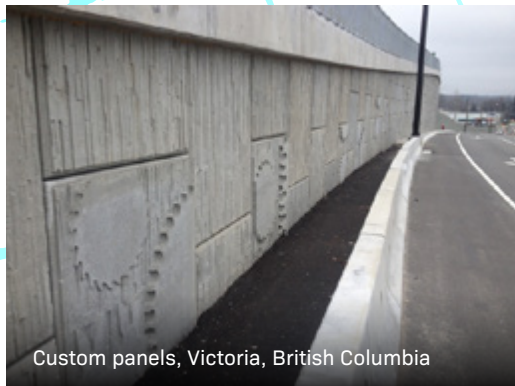
## STYLISH, FROM THE GROUND UP

The architectural aesthetics of our MSE Precast Panel Headwalls can be extended to the inside by creating textured concrete halfwalls running the length of the structure. This hybrid design, effectively sets the corrugated metal structure on a raised engineered concrete foundation.

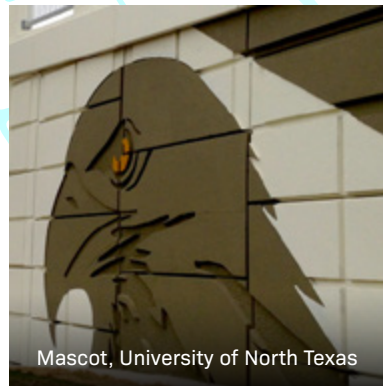


## CHOOSE YOUR OWN ENDING

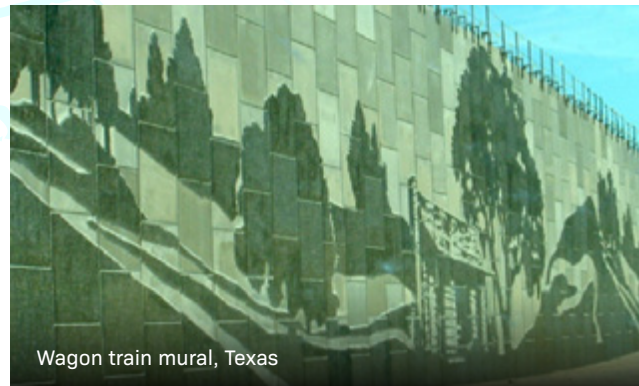
One of the most important facets of a Structural Plate Bridge or Tunnel are the Headwalls. With a limitless array of panel sizes, colours and textures, our MSE Precast Panel Walls help every installation make a statement. A custom mural wall could tell your community's story with a sense of context and place.



Custom panels, Victoria, British Columbia



Mascot, University of North Texas



Wagon train mural, Texas

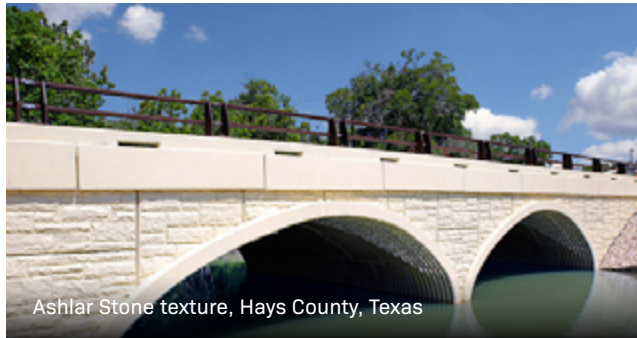


Wagon train mural detail, Texas



# END TREATMENTS

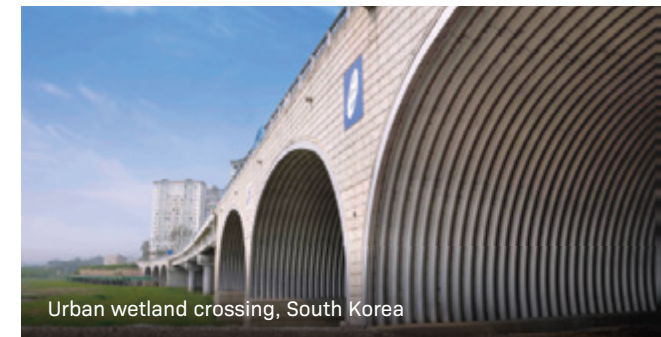
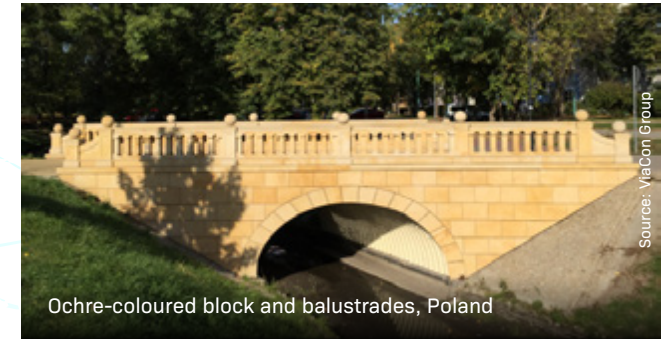
## Precast Panel



## Cast-in-Place



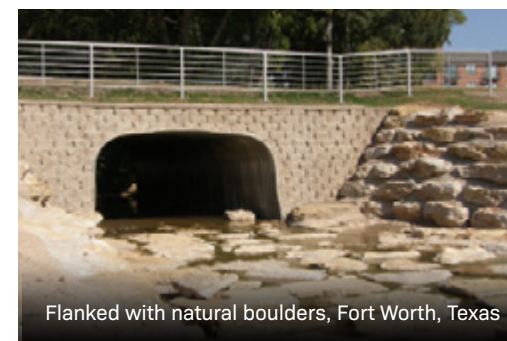
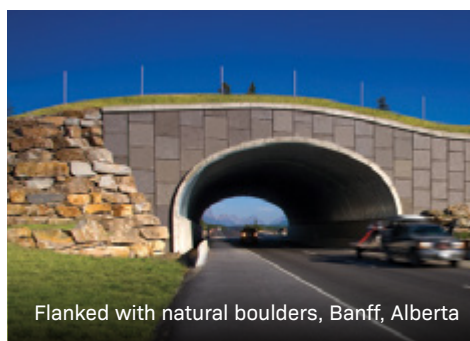
## Architectural Block



## Masonry



## Natural Stone





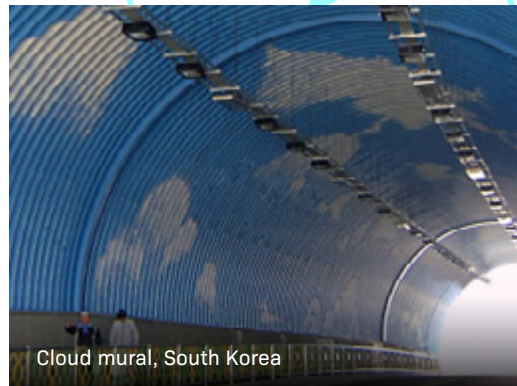
## A PALETTE OF POSSIBILITY

Our Structural Plate Bridges and Tunnels are usually provided with a Galvanized or Polymer-Coated Finish and left that way for low-maintenance service of up to 100 years. However, they can also be custom-coloured to provide a brighter interior or to create unique artistic installations. With a little inspiration, the sky's the limit!



Coated cycle underpass, Poland

Source: ViaCon Group



Cloud mural, South Korea



Coated box culvert, Poland

Source: ViaCon Group



Coated to match concrete, Prescott, Arizona

## CREATIVE ILLUMINATION

Beyond safety and security, light can invoke feelings of peace, harmony and creativity. With today's modern LED lighting technologies, light can be used to accentuate a structure's geometry and create a welcoming and memorable experience for users.



Urban motorway tunnel, South Korea



Bicycle path, The Netherlands



Integrated skylights, Sweden



Bicycle path, The Netherlands



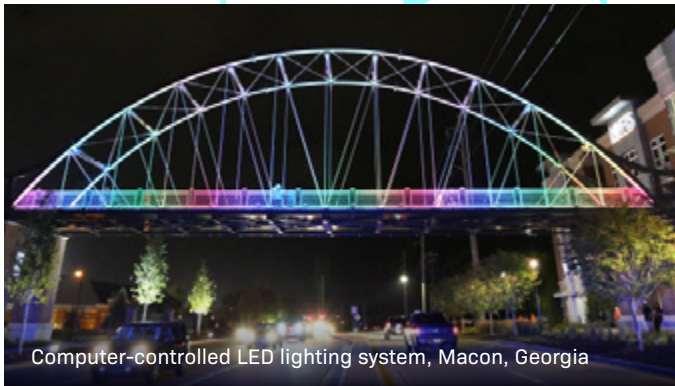


## BOLD, ARCHITECTURAL STATEMENTS

A well-designed bridge is more than just getting from point A to point B. It can make a real visual impact in any urban landscape. Starting with a wide variety of styles and truss types, our range of features and options is as expansive as the bridges themselves — colours, architectural accents, lighting, decking, railings, abutment treatments and more.



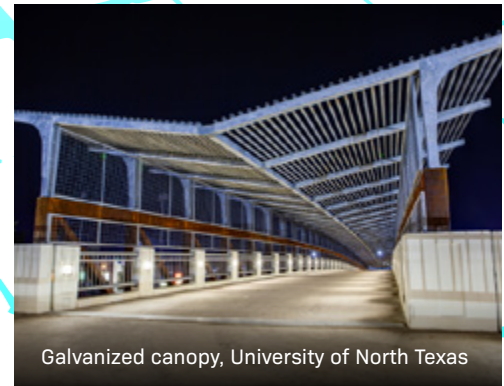
Hospital pedway, Greeley, Colorado



Computer-controlled LED lighting system, Macon, Georgia



Architectural pedway, Milwaukee, Wisconsin



Galvanized canopy, University of North Texas

## ANYTHING BUT 'PEDESTRIAN'

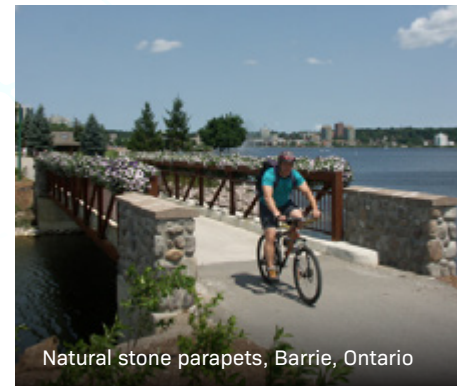
Municipalities and transportation authorities love our Prefabricated Pedestrian Bridges because they can often be installed in less than a day with local crews and equipment — saving time and money. And, working together, we ensure the architectural aesthetics of the bridges are anything but 'pedestrian'.



Two-colour with curved safety screens, Colorado



Bridge/Abutments package, Victoria, British Columbia



Natural stone parapets, Barrie, Ontario



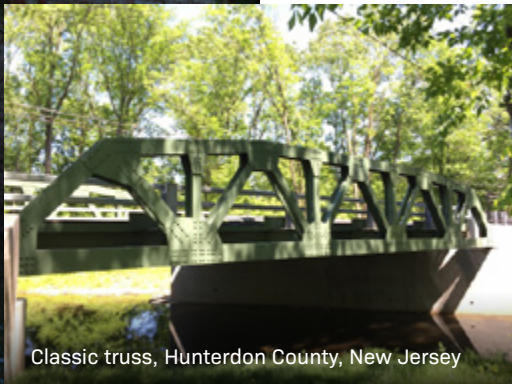
Residential development, Boulder, Colorado





## ACCELERATED SAVINGS VEHICLES

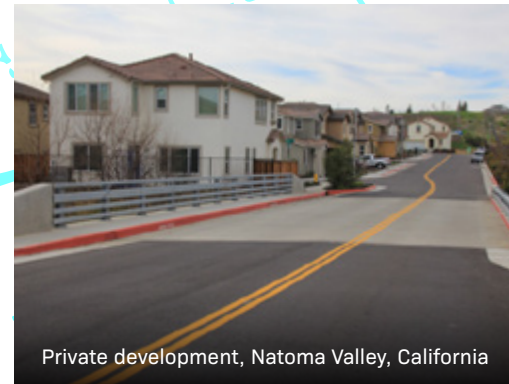
Chosen for economical and accelerated construction, our Vehicular Bridges are available in modular or truss systems in a wide variety of designs, sizes and finishes. Add to this the flexibility of multiple decking options, sidewalks and architectural lighting, and you can create highly-tailored solutions for the most unique urban bridging applications.



Classic truss, Hunterdon County, New Jersey



Girder bridge, Lowell, Massachusetts



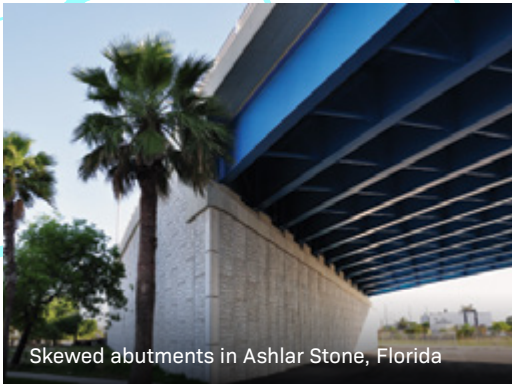
Private development, Natoma Valley, California



Commercial resort entrance, California

## PRACTICAL, ON SO MANY LEVELS

Urban areas often require retaining walls for bridge abutments, grade separations and transportation corridors. Our MSE Retaining Wall Systems are fast, flexible and economical embankment solutions that adapt well to curves, angles and steps – and look good while doing it.



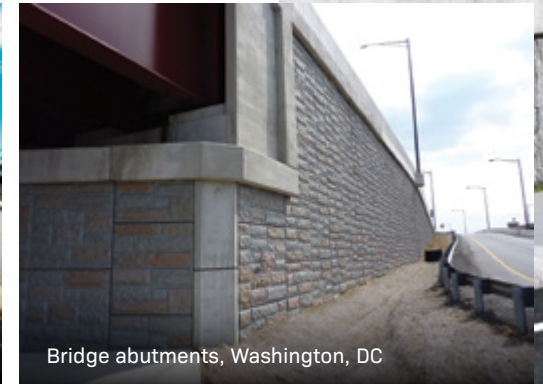
Skewed abutments in Ashlar Stone, Florida



Custom panel details, Edmonton, Alberta



Ring road abutments, Saskatoon, Saskatchewan



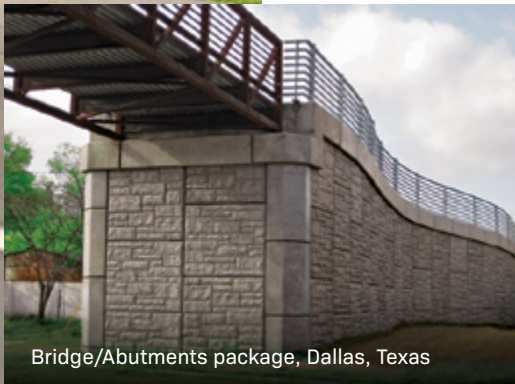
Bridge abutments, Washington, DC





## CREATIVITY, STACKED IN YOUR FAVOUR

The extensive precast panel options with our MSE Retaining Wall Systems have creativity stacked in your favour. Choose from a wide variety of panel concrete types, sizes, textures and colours. Our custom mural treatments make truly distinctive statements.



Bridge/Abutments package, Dallas, Texas



Riverfront boardwalk, Saskatoon, Saskatchewan



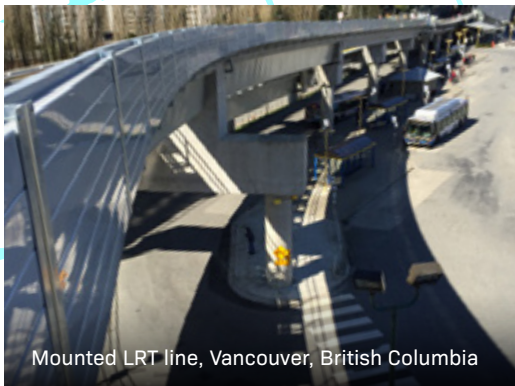
Coloured concrete, Edmonton, Alberta



Curved in suburban interchange, Victoria, BC

## HANDSOME PEACEKEEPERS

Lightweight PVC AIL Sound Walls are quickly becoming an important part of the urban landscape throughout North America — often replacing older wooden or concrete sound barriers. With a wide variety of colours and finishes, they can enhance any urban setting while keeping the peace.



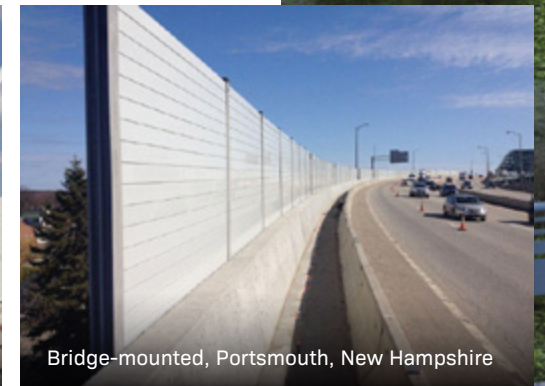
Mounted LRT line, Vancouver, British Columbia



Mounted LRT line, Vancouver, British Columbia



MetroRail expansion project, Houston, Texas



Bridge-mounted, Portsmouth, New Hampshire







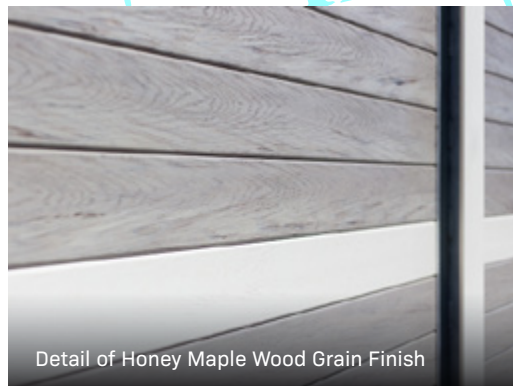
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## THE STRONG, SILENT TYPE

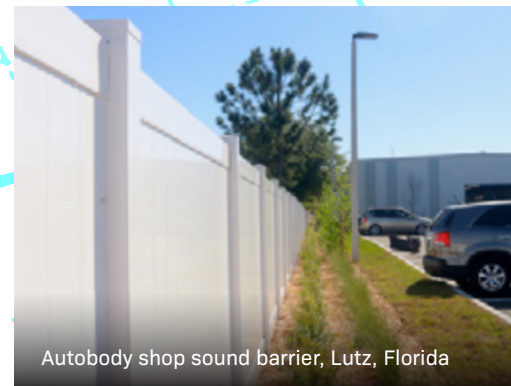
AIL Sound Walls are wind load tested to withstand hurricane force winds and they boast some of the highest technical sound mitigation ratings in the industry. They are also impervious to weather and, with smaller footings, they are easy to install in tighter urban sites.



RONA loading dock, Mississauga, Ontario



Detail of Honey Maple Wood Grain Finish

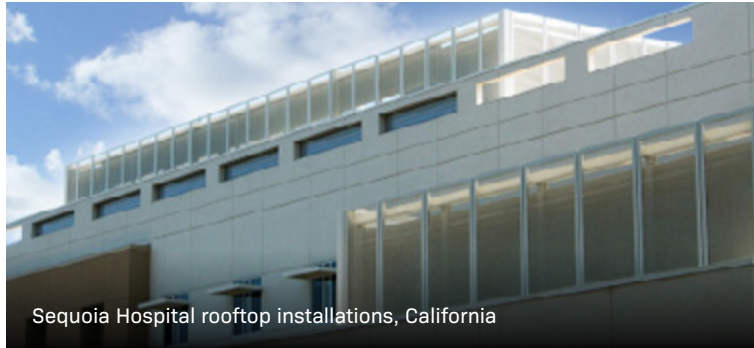


Autobody shop sound barrier, Lutz, Florida



Vertical panel orientation, Oakville, Ontario

# DE-NOISING THE URBAN ENVIRONMENT WITH STYLE



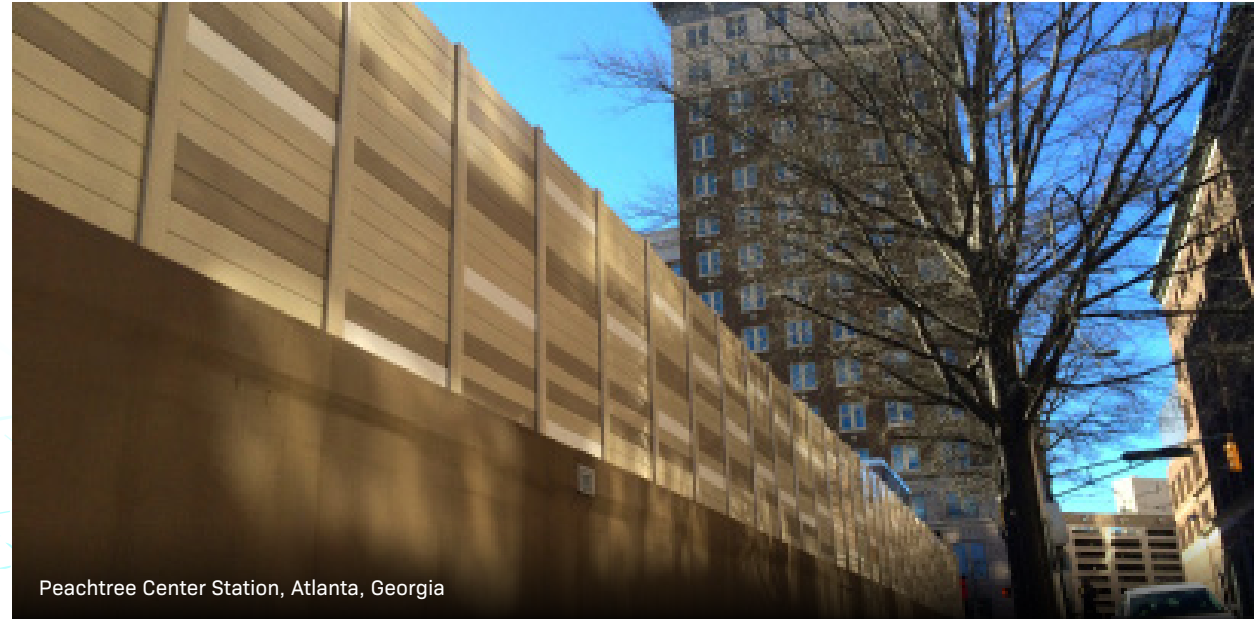
Sequoia Hospital rooftop installations, California



Water utility pumping station, San Antonio, Texas



Highway interchange, Louisville, Kentucky

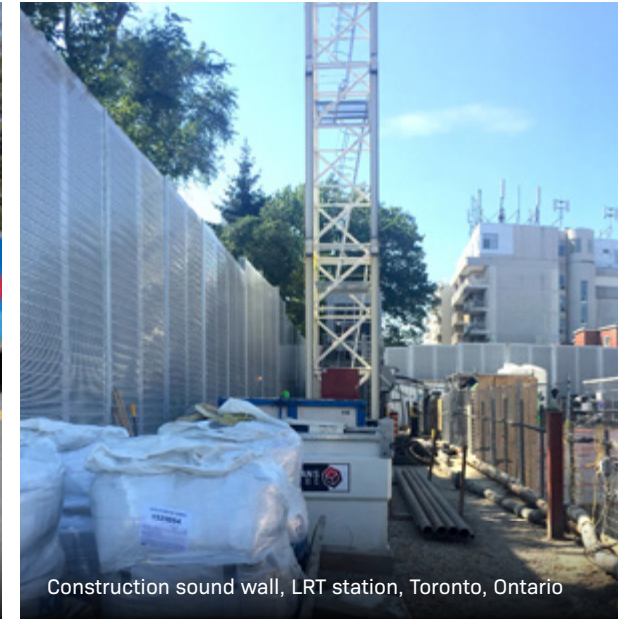


Peachtree Center Station, Atlanta, Georgia



Starbucks drive-thru lane, Winnipeg, Manitoba

AIL Sound Walls are becoming the solution of choice for many urban applications.



# ECONOMICAL, SUSTAINABLE AND RESILIENT SOLUTIONS

AIL's Urban Infrastructure Specialists help today's professionals, like planners, engineers and landscape architects, deliver economical, sustainable and resilient solutions — balanced to fulfill their communities' present and future needs.

Most of our solutions cost less and perform longer than their equivalents in concrete or other materials. They also use less energy to manufacture and ship. Plus, they contain more recycled content and are more recyclable.

Our structures can be installed with local crews and equipment with less traffic interruption than their site-built alternatives. They also have lower maintenance requirements and less environmental site impacts.

And, speaking of impacts, our solutions have flexibility and resilience built in to withstand unexpected events like traffic overloads, extreme weather, flooding and earthquakes.



# TALK TO AN AIL URBAN INFRASTRUCTURE SPECIALIST

We hope you found this booklet of interest in visualizing how AIL's URBANSCAPE Infrastructure Solutions can be an integral part of many new construction or replacement projects in Canada's cities and towns.

With over 50 years of experience in providing efficient engineered solutions, the AIL Urban Infrastructure Team is ready to help you find the right solution for your particular requirements.

We can collaborate to help you make the best choices and ensure our solutions are value-engineered to make the most out of your sites. The sooner we get involved, the more your project may benefit and save.

**Let's talk urban infrastructure!**

**1-506-364-4600 • [info@ailurban.com](mailto:info@ailurban.com)**

# Let's talk urban infrastructure!

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1-506-364-4600 • [info@ailurban.com](mailto:info@ailurban.com)

## Your Canadian AIL Group Partners



**Atlantic Industries Limited**

PO Box 6161, 32 York St., Sackville, New Brunswick, E4L 1G6  
[ail.ca](http://ail.ca) • 1-877-245-7473



121 Gerald Parkway, Thorndale, Ontario, N0M 2P0  
[algonquinbridge.com](http://algonquinbridge.com) • 1-844-274-3535



**AIL SOUND WALLS**

640 Waydom Drive, Ayr, Ontario, N0B 1E0  
[ailsoundwalls.com](http://ailsoundwalls.com) • 1-866-231-7867

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