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FALL 2024



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## Highfield Stormwater Management Facility – Calgary Alberta

**Cory Albers, P.Eng. M.Sc.**  
Co-Owner  
Source2Source Inc.  
Calgary, AB

Precast Producer: **Precon, Lethbridge, AB**

**The Bow River within the City of Calgary and downstream from the city offers some of the best fishing in Alberta. The Bow River is key in supporting Alberta's sport fishing community and the area downstream of the city's downtown is abundant with Brown Trout, Rainbow Trout, and Mountain Whitefish. Protecting the Bow River and conservation of aquatic life is paramount and is one of the goals of the City's Stormwater Management Strategy.**

In 2018, the City of Calgary hired Stantec to complete the design, tendering, and construction of a stormwater management facility (SWMF) adjacent to a major storm outfall in the city's southeast, which discharged untreated stormwater into the Bow River. Stantec hired Source2Source Inc. (S2S) to assist with the facility design, especially with the application of the Nautilus Pond® technology to this treatment facility.

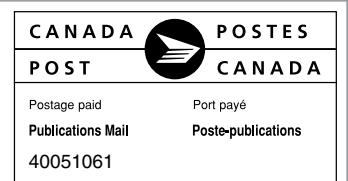
The existing storm ducts discharging to the SWMF on the west side of the Bow River, just south of the Calf Robe Bridge on Deerfoot Trail are twin 1500mm span by 1650mm rise box structures. This outfall drains a large catchment area of approximately 1050 hectares consisting of residential, commercial, and industrial use land.

The facility was designed as a Nautilus Pond® system composed of an inlet structure, 2 stilling basins, 2 overflow berms, 2 biofiltration pockets, a large settling basin, and multiple precast concrete high flow structures. The erodible areas of the Nautilus Pond® are lined with articulated concrete matting.

*continued on page 2*



Aerial overview of the completed project. Biofiltration pockets are visible at the top and to the right of the Nautilus Pond®



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# Highfield Stormwater Management Facility – Calgary Alberta

*continued from page 1*

The storm ducts direct untreated stormwater flows into the Nautilus Pond® system's first stilling basin. As the flow fills the first basin and ultimately overflows into the second stilling basin and through the flow dispersion blocks, the flow velocity slows, and settlement of fine solids begins. Once the second stilling pond fills, it will overflow into the large settling basin via a second set of flow dispersion blocks. In the settling basin, the flows will further reduce to a velocity where all statutory sediment removal objectives for the SWMF are achieved. Once the settling pond is filled with the storm flows, the settled water can exit the system through the high-capacity precast concrete outlet box structures. As the basins are filled, the biofiltration pockets also fill. These pockets have 2 functions. First, they reduce the bionutrient load for nutrients like nitrogen and phosphorus that otherwise would be sent into the Bow River. The second function is creating healthy riparian habitat along the Bow River within an urban environment.

The precast concrete outlet structures from the Nautilus Pond® were custom shallow cover precast concrete, designed by S2S and Stantec and manufactured by Precon. Each outlet structure includes maintenance access and is designed with CL800 loading in mind to enable unrestricted movement of fully loaded hydrovac trucks. The structures were produced using wetcast precast methods. There are three individual structures that make up the outlet. Each one is a box structure with custom openings for the inlet and outlet. The inlets at the downstream of the settling basin have galvanized steel grating covering the openings. The grating acts as a solids strainer for any debris that has floated through the Nautilus Pond® system. Structurally, the precast and grating is designed to support a track loader or skid-steer loader to travel on it to clean the debris off. The downstream side of the outlet structure is covered with a pipe trash rack made from galvanized steel. This closes up the structures



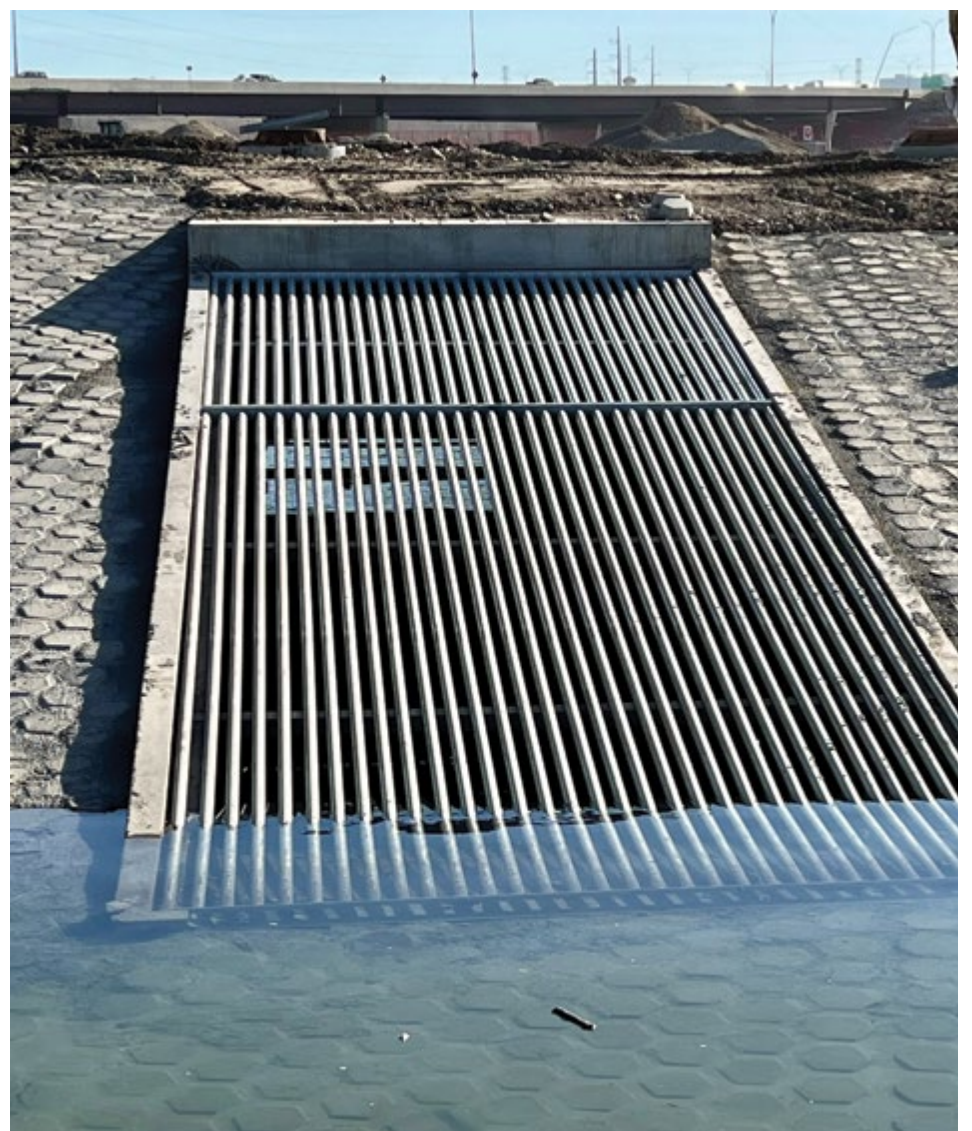
*Precast Concrete Box structures are installed at the outlet of the Nautilus Pond®*

for safety of any person, or wildlife, that may be walking in the area. The precast concrete outlet structures were designed with flat joints where a compression butyl rubber gasket strip seals the joint. The box sections are held together with a proprietary compression pocket which provides a tight seal with no gaps between the precast concrete sections.

The team of the City of Calgary, Stantec, S2S, and Precon worked effectively and in unison with Wilco Contractors Southwest Inc. to deliver this project and created sustainable infrastructure that will perform and protect the Bow River for decades.



*The finished Nautilus Pond® outlet structures capturing floating debris and protecting the Bow River*



*The downstream end of the finished Nautilus Pond® outlet structures*



# M CON Provides a Precast Chamber Solution to the City of Pembroke

**Ken Wetzel, CD, P.Eng.**  
Senior Project Manager

**Hamid Yousefi, EIT**  
Senior Field Services Coordinator

**Ainley Group**

Precast Producer: **M CON Products, Ottawa, ON**

Recently the City of Pembroke completed a major infrastructure reinforcement project, the Twinning of the Townline Lift Station Forcemain. The municipality proactively recognized the need for redundancy on this critical piece of infrastructure. A significant undertaking, it was designed and overseen by Ainley Group and constructed by the team from Bonnechere Excavating Inc.

Beginning design in the spring of 2022, this 2.4 km long, 500mm diameter forcemain extended from the intersection of Paul Martin Drive and Town Line Road to the intersection of O'Brien Street and Bell Street in the City of Pembroke. Construction began in the summer of 2023 and was completed in the fall of 2024.

The design team at Ainley identified the need for 5 major structures along the route. Two of these would be approximately 3.3m X 5.2m custom valve chambers, housing 500mm knife gates, swab access ports, vents and a bypass. Two would be 3.0m X 1.8m box maintenance chambers for air release valves and their associated piping, while the last would form the outlet of the forcemain to the gravity sewer system.

The engineering department at M CON worked closely with Ainley to produce each of these structures, each between 3 and 4.5m in depth. Special attention was

given to the top slabs with raised chimneys encasing the custom fabricated aluminum hatches. Additionally, extended base slabs were integrated into the design to better resist buoyancy uplift forces due to the high ground water table, and special hardware was utilized for convenient quick connection of reinforcing for the cast-in-place thrust blocks.

The first structure was delivered to the site in August of 2023 to match up with the progressing forcemain installation, with the remaining structures arriving over the next 8 to 10 months. The schedule called for much of the work to be completed over the winter months, and precasting allowed the structures to be built in a controlled environment guaranteeing quality control, and avoiding costly heating and hording at the site.



Close up of chamber installation



Overhead view of jobsite

We selected precast structures for a variety of reasons. A key element would have to be the ability to build the structure concurrently off-site while the on-site work progressed saving us considerable time. Additionally, the design team preferred precasting as it allowed much of the mechanical piping and valving work to be preassembled before delivery, meaning a semi-complete assembly arrived at site that could be integrated into the already set monobase as a pretested unit. This not only sped up the process but helped to avoid a challenging fit up in a confined space later. Lastly, but not least, it is recognized that precasting these chambers at M CON's facility in Ottawa allowed for superior quality control resulting in an overall better performing product.

# Rinker Materials Canada Acquires Power Precast Solutions

Rinker Materials Canada are excited to announce the acquisition of Power Precast Solutions expanding Rinker Materials reach into the growing precast Ontario market.

Power Precast Solutions is a manufacturer of precast concrete products used in drainage, stormwater, and other infrastructure applications. Power Precast Solutions primarily serves the greater Ottawa metropolitan area and for the past 50 years, they have provided high-quality products and services to meet customer needs.

"The acquisition of Power Precast Solutions will benefit our customers as we provide an expanded suite of products and access to technical expertise that will assist in creating tailored infrastructure solutions. We're pleased to welcome Power Precast Solutions to the Rinker Materials team and, given our shared commitment to quality and strong customer service and relationships, we expect a seamless integration," said Shane Egan, Vice President & General Manager of Rinker Materials Canada.



# Souris Valley Industries Provides Critical Infrastructure to the City of Regina's Drainage Improvement Project

## Precast Producer: Souris Valley Industries, Weyburn, SK

Construction continues in northeast Regina to replace and upgrade the stormwater system to better handle rainwater and melted snow from a one-in-25-year event.

Home and business owners in those neighborhoods will appreciate less ponding and a lower risk of street and basement flooding during significant storms, thanks to the City of Regina's \$14 million Northeast Neighbourhood Drainage Improvement Project. The project also aims to improve the management of increasingly severe storm impacts from climate change and reduce the risk of untreated wastewater being discharged into the environment.

Storms that rolled in almost fifty years ago caused devastating flooding in Regina and the surrounding area, damaging properties in city neighborhoods, including those in the northeast. The storms in 1975 and 1983 revealed areas vulnerable to flooding. The City of Regina initiated several drainage studies to assess the existing conditions and propose improvements to stormwater drainage, mitigating the risk of future flooding.

AECOM, the engineering consultant for this project, began work in the fall of 2020. The firm's project team includes key personnel who have been working on the detailed design and construction of citywide stormwater upgrade projects in Regina over the last decade. The City of Regina manages stormwater with storm sewers that collect rainwater and snowmelt to drain into Pilot Butte, Wascana, and Chuka creeks.



Typical pipe to MH connection

Upgrading the stormwater system in Regina's northeast required a design that is constructible, cost-effective, low-maintenance, and hydraulically efficient. Like other similar City of Regina projects, this one required extensive stormwater modeling and simulation, the installation of large-diameter sewers, coordinated crossings of critical city infrastructure, utilities, and railway lines to minimize service disruptions during construction, and comprehensive street rehabilitation.

Toby Hess is AECOM's project manager. His team has provided the City of Regina with conceptual

design, preliminary design, detailed design, tender preparation, procurement assistance, and construction administration support for this project.

Construction began in 2023 with general contractor CBS Contracting relying on Souris Valley Industries (SVI) to supply the concrete pipe, manholes, vaults, T-risers, and bends required for this project. The Weyburn-based company manufactures these and other precast concrete products just over 100 km southeast of Regina.

"Relying on a local supplier made sense for this project because it makes communicating and collaborating among all the stakeholders during the project easier," said Hess. Eric Donnelly, Senior Project Manager of CBS Contracting, described how he gets the products his crew needs from SVI: "Construction on this project progresses block by block, with the surface being removed to access the existing infrastructure for removal. New pipe is then installed to replace it. The large diameter sewer pipes are designed to be installed at depths greater than five meters below grade, ensuring they maintain their structural integrity under significant loads of earth for a long time."

Donnelly plans ahead by determining the supplies he requires several weeks in advance.

"Eric is so well-organized and on top of things, so that makes my life easy too," said Ryan Watt, Director of Sales and Project Management for SVI. "We get plenty of notice on what to build."

Donnelly communicates his product needs to SVI. Many of the bigger products are made when an order is placed. For some products not made in regular production, new drawings sometimes need to be produced for an engineer to approve.

"There's a bit of a process, a little bit of back and forth, but I don't care how many times we have to go back and forth to get it approved," said Watt. "What matters is that once it gets to the site, there are no problems. That's a win for everybody."

SVI then sends CBS Contracting's order into production, ensuring there is enough concrete pipe, manholes, vaults, T-risers, and bends available ahead of when the construction company requires them. "Producing bends and T-risers is labour-intensive," said Watt. While pipes can be produced using a concrete form, no such form exists for these two other products, so they require welding and special forming, which adds hours to their production.

"We've got a lot of guys that have been making concrete for a number of years," added Watt. "They are experienced and know the best and most efficient way to do this."

SVI employees check the product to ensure its quality meets standards before arranging for it to be transported. There is very little room for storage at the construction site because the work is being done on existing city streets, so the products can only be brought in a day or two in advance. SVI ensures the products are transported to the site just in time for installation. Some days, a truck makes a trip to the job site in the morning, unloads, and goes back to Weyburn to pick up a second load to deliver that afternoon.

"We've done that multiple times with Eric and his crew at CBS," said Watt. "There are so many moving parts with production and shipping, but we make it happen."

This is appreciated by AECOM and CBS Contracting. Knowing the products are about an hour's drive away and can be delivered by SVI at the time they are needed means they can be seamlessly integrated into the construction timeline, making the project more resilient against disruptions, Hess explained. He said "CBS Contracting and SVI have successfully met the project's design and contractual requirements despite the constraints of working within these existing neighborhoods."

Another challenge of this project involved meeting the depth requirements of Canadian National (CN) Rail. A section of the project crossed the rail company's property. To meet the requirements, AECOM devised an innovative solution. Instead of using only an 1800 mm pipe for that section, AECOM installed two 1524 mm casing pipes. Within these casing pipes, two 1200 mm diameter PVC carrier pipes were placed. This approach allowed for stormwater to be received, contained, and funneled where it needs to go while adhering to CN's depth requirements. Transitioning from an 1800 mm storm sewer pipe upstream to dual 1200 mm pipes involved installing a 3600 mm by 3600 mm box culvert. The same box culvert configuration was constructed downstream of the crossing. Using dual casings and box culverts was not only compliant with CN's regulations, Hess explained, but also provided a cost-effective and feasible solution for the stormwater management system.

Those box culverts were produced by SVI in Weyburn and transported to Regina. This product required the creation of a form for the walls of the box. After the concrete was poured, additional work was needed to ensure everything fit as it should. This product weighs tens of thousands of pounds, which requires it to be loaded on a truck in a specific way before arriving on site for a crane to lift and place it.

Work continues on this project through 2024, with completion scheduled for 2025. SVI expects to supply more projects like it based on their customers and history.

"We've done a lot of these types of projects, mostly in Saskatchewan, around Regina and Saskatoon, but also some in Manitoba and Alberta," said Watts, who noted the furthest they have shipped their products is to Norman Wells, a town in the Northwest Territories near the Arctic Circle. "A lot of times it's our existing customers doing work there that like our product and want to take our product with them."



Reinforced Concrete Pipe with custom bend



# The Mel Marshall Engineering Scholarship

## For Undergraduate or Graduate Civil Engineering Students



The **Canadian Concrete Pipe & Precast Association** and the **Canadian Precast/Prestressed Concrete Institute** are pleased to jointly announce the new Mel Marshall Engineering Scholarship!

This scholarship honors industry Titan, Mel Marshall, for his lifelong commitment to advancing the precast industry by teaching younger generations. The scholarship, available to students enrolled in undergraduate or graduate Civil Engineering programs in an accredited Canadian University, has a value of \$10,000 per year.

Completed applications must be received no later than January 16, 2025.

More information about the scholarship or the application procedures can be found on the CCPPA website under the "Education" tab, at [ccppa.ca](http://ccppa.ca).



# Coldstream Concrete Completes 2 Major Expansions Over the Last 4 Years

We are excited to announce the completion of our expansion! Over the last 4 years we have completed two expansions. Our first expansion was completed in 2021 which increased our manufacturing area by 15,000 sq ft. Our second expansion has allowed us to increase our manufacturing floor by another 3,500 sq ft. Since the completion, we now have over 300 ft of craneway where we are able to produce three times as many box culverts, chambers and other custom heavy precast products. We are also very excited to open the doors to our new 9,000 sq ft lunchroom, washroom, office and training area.



*Coldstream Concrete manufacturing facility with new expansion*

### A Strategic Move for Growth

The decision to expand reflects the robust growth we have seen in the heavy precast industry and the rising demand for large precast box culverts and chambers. With this new space, we can now handle three times as many projects simultaneously, significantly increasing our production capacity and efficiency. This expansion aligns perfectly with our long-term goals of scaling operations and improving service offerings.

### Enhanced Capabilities and Opportunities

Our expanded facility allows us to pursue greater efficiency while maintaining the highest quality in our concrete products. We now have the space to broaden our product lines and increase production of precast concrete products, which we expect will lead to improved operational efficiency and faster product delivery times.

*continued on page 7*

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# The ABCs of Precast

**Enrico P. Stradiotto, P.Eng.**  
 Director of Engineering  
 CCPA

**Precast Producer: Coldstream Concrete, Ilderton, ON**

Most people would probably peg the ABCs of concrete to be cement, aggregate, and water for a basic mix design. In transportation infrastructure, the ABCs of construction is known as: Accelerated Bridge Construction. The Federal Highway Administration defines ABC as, "Bridge construction that uses innovative planning, design, materials, and construction methods in a safe and cost-effective manner to reduce the onsite construction time that occurs when building new bridges or replacing and rehabilitating existing bridges." For the purpose of this article, there is a slight adaptation made to the ABC acronym to suit the focus of this project: Accelerated Box (Culvert) Construction.

The precast industry for concrete pipe and buried precast structures is well suited to manufacturing standard products in a controlled production environment, with QA programs firmly in place. This model permits mass production of high quality and durable precast elements. More recently, greater demands from projects have given opportunities for precasters to demonstrate their capabilities in manufacturing specialty precast elements. This still means the same quality and durability, but the precast solutions are now bigger and not so much "off the shelf" like standard concrete pipe.



McPherson Drain - 3.6m x 2.4m precast box culvert

OSIM inspections of two existing bridge structures in the County of Lambton determined their replacement was necessary. These structures were built in 1964. In consideration of a replacement structure, a custom geometry was necessary to both fit the site constraints and to satisfy the necessary waterway area for conveyance. Furthermore, a reduced construction schedule was desired. All things pointed to a specialty precast box as being the choice infrastructure solution. Black Creek Engineering (from Sarnia area) did also note, "On the issue of climate change, there is little doubt that we are getting more extreme storm events and, in addition to wanting a shortened schedule to minimize the traffic disruption, it's also very important to get in and out of the watercourse as soon as possible."

During the initial stages of design and work planning for this project, the County determined that two separate culvert locations could be bundled together into one tendered project. This was due to their proximity to each other, the extent of sitework necessary to replace the culverts, and the material options available for the culverts. The two culverts involved in this project were located along County Road 12. The first culvert is on the South Boundary Drain, and the other is on the McPherson Drain. This represents about a 2 km separation between culverts which made the coordination of construction activities and the sharing of working resources very possible for these neighbouring culverts.

Further stipulation for the project from the County in their RFP was the need to plan each culvert replacement for 2-stage construction. This was to maintain a single lane of traffic with temporary traffic signals for Townsend Line, a route which typically supports a 3000 AADT. To meet this stipulation, the project consultant Black Creek Engineering determined

the existing cast-in-place, open-footing, non-rigid frame box culvert structures could be partially removed for staging purposes. Approximately 60% of the original structure was taken away to stage for the new culvert installations, keeping the balance of existing structure open for traffic. In applying this construction staging to both culverts, 6 of 10 box units were installed during the first stage on the South Boundary Drain, while 6 of 11 box units were installed during the first stage on the McPherson Drain.

The use of precast concrete box units provides many advantages for projects like this, primarily the accelerated mode of construction for which this article highlights. The work activity on the project site is minimized aside from the efforts needed to install the precast box units.

The formwork setup, pouring of concrete, curing, quality control checks and dismantling of formwork all take place off-site without extending the schedule or enlarging the construction footprint at the project site.

Some of the additional advantages presented by using precast on this project includes the ease of installation and project staging. In most typical box culvert installations, the preparation of bedding to support precast box units is no more than a granular material similar to beddings for concrete pipe. These rigid frame reinforced box structures are self-supporting, integral units of precast concrete which permit 2-stage installations for culverts underneath roadways. After being installed and backfilled, the new section of precast culvert can now provide the means to bypass traffic during the second stage of construction.

Black Creek Engineering opted for a deep invert box to account for future silting within the drain course, and each was sized for a 1/50 year storm event. The South Boundary Drain consisted of precast box units: 3.0m span X 2.3m rise, for a 21.0 metre culvert length. The (10) box units each weighed 16.7 tonnes and required (13) days of production in April 2024. Similarly, the McPherson Drain consisted of precast box units: 3.6m span X 2.4m rise, for a 22.5 metre culvert length. The (11) box units each weighed 18.1 tonnes and required (14) days of production in May 2024. End Treatments for the box culverts were constructed with precast retaining wall blocks which permitted custom inlet and outlet configurations to suit the drain hydraulics, and to allow easier grading of the embankment at these culvert points.

The award of tender in February 2024 and start of project in July 2024 ensured ample time for the units to be manufactured in a relaxed production schedule, permitting additional time for cold-weather curing. The project tender provided by Black Creek Engineering allowed for eight (8) weeks of on-site construction to complete both structures. The Contractor was able to complete the replacement of both structures in three (3) weeks; this included the excavation and removal of the existing structures. The final road restoration and paving was completed over two days within week #4. The contractor for this project was JLH Excavating.



South Boundary Drain - 3.0m x 2.3m precast box culvert

The replacement of two structures with precast box culverts along County Rd 12 in the County demonstrated the success that precast concrete products can bring to buried infrastructure projects. Like a version of Accelerated Bridge Construction (ABC), the use of precast reinforced boxes permitted a quick replacement of two structures, resulting in minimal disruption to local and commuter traffic. Not only was the choice to use precast concrete a smart decision, so was the intention to bundle together these neighbouring culverts under the same project tender.



# Coldstream Concrete Completes 2 Major Expansions Over the Last 4 Years

continued from page 5

Specifically, our first expansion enabled year-round operations, allowing us to keep concrete indoors during cold weather and to support the curing process.

### Positive Impact on Our Team

The latest expansion greatly benefits our team by providing a modern and comfortable workspace. As attracting and retaining new employees can be challenging, we are thrilled to offer a clean, spacious lunchroom with large windows overlooking a beautiful park. The new facility promotes collaboration and creativity, enhancing job satisfaction and productivity. Additionally, it enables us to welcome new team members, further strengthening and growing our workforce.

### Gratitude

We extend our gratitude to our employees who have worked diligently through these expansions and adapted to temporary arrangements during the construction. Many of our team members contributed directly to building this expansion, and we appreciate their skill, patience and support.

We would also like to thank the various trades who collaborated with us to create this beautiful facility. It was a rewarding experience to learn from each other on-site. Together, we are poised for an exciting future and continued success.

### Where to Next?

When asked about future plans, President Amy Koteles smiles and reflects, "I am excited to enjoy this expansion for a while before moving on. However, Coldstream has a history of growth and my dad, (past President and Owner, Bob Brown), was always looking for ways to expand the company, and I've inherited that same drive. So stay tuned for more exciting developments from our company soon!"

### About Us

Coldstream Concrete is a family-run company located just outside of London, Ontario. Amy Koteles is proud to be the third-generation Owner of Coldstream Concrete, a leading precast concrete company specializing in products that support efficient drainage in agricultural and sewer and watermain industries. We are committed to delivering exceptional products and driving industry advancements. For more information, visit coldstreamconcrete.com.

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**Langley Concrete Group**  
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 Fax: 604-533-8191  
 Email: pipeman@langleyconcretegroup.com  
 Website: www.langleyconcretegroup.com  
 Contact: Mark Omelianiec

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 Location: Ottawa, ON  
 Tel: 1-800-267-5515  
 Email: info@mconproducts.com  
 Website: www.mconproducts.com  
 Contact: Marco Mion

**Miller Precast**  
 Location: Rossllyn, ON  
 Toll-free: 1-888-290-8986  
 Fax: 1-807-939-1788  
 Email: sales@millerprecast.ca  
 Website: www.millerprecast.ca  
 Contact: Tracy Miller

**OMNI Precast**  
 Location: Ayr, ON  
 Tel: 519-632-9112  
 Fax: 519-632-7440  
 Email: sales@omniprecast.ca

**Proform Construction Products**  
 Locations: Edmonton, Red Deer & Calgary, AB  
 Toll-free: 800.859.5541  
 Email: info@proform.ca  
 Website: www.proform.ca  
 Contact: Travis Paterson

**Rainbow Concrete Industries Ltd.**  
 Locations: Sudbury, ON  
 Tel: 1-800-461-6281  
 Fax: 705-566-4813  
 Email: sales@rcil.ca  
 Website: www.rcil.com  
 Contact: Boris Naneff

**Rinker Materials**  
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 Tel: 1-888-888-3222  
 Fax: 519-621-8233  
 Email: Shane.Egan@RinkerPipe.com  
 Website: www.RinkerPipe.com  
 Contact: Shane Egan

**S3 Precast**  
 Locations: Sherwood Park, AB  
 Tel: 780-742-8265  
 Fax: 780-478-5699  
 Email: Amir@s3precast.com  
 Website: www.s3precast.com  
 Contact: Amir Azizi

**Souris Valley Industries**  
 Locations: Weyburn, SK  
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 Fax: 306-842-1011  
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 Website: www.sviprecast.com  
 Contact: Dustin Bell

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 Fax: 416-674-6960  
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 Contact: Randy Reimer

**Press-Seal Corporation**  
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 Toll-free: 800-348-7325  
 Cell: 617-803-1750  
 Email: mtomkinson@press-seal.com  
 Website: www.press-seal.com  
 Contact: Matt Tomkinson

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 Fax: 905-634-7888  
 Email: Colin.odonnell@nucor.com  
 Website: www.laurelsteel.com  
 Contact: Colin O'Donnell

**Numesh Inc.**  
 Location: Laval, QC  
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 Fax: 450-663-9049  
 Email: David.Metcalf@Numesh.com  
 Website: www.numesh.com  
 Contact: David Metcalfe

**StelCrete Industries Limited**  
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 Website: www.stelcrete.com  
 Contact: Bob Hansen

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 Website: www.gcigroups.com  
 Contact: Pierre Rancourt

**Afinitas**  
 Location: St. Louis, MO  
 Tel: 314-726-2178  
 Email: derek.voncannon@afinitas.com  
 Website: www.afinitas.com  
 Contact: Derek Von Cannon

**Mel C. Marshall Industrial Consultants Inc.**  
 Location: Surrey, BC  
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