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fall 22

PRECAST CONCRETE STRUCTURES ARE

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Mike Johnsrud, Executive Director • info@pcimidwest.org

Boston Scientific



Boston Scientific is not only the largest employer in Maple Grove, MN, it's the largest of its kind in the northwest suburbs of Minneapolis. When the medical device company needed to make a significant addition to an existing building, Wells collaborated with Mortenson and HGA to provide innovative and efficient solutions.

Prefabrication proved to be the quickest and only feasible way to provide a roll cast brick facade on the exterior of the building for this almost 50,000 SF addition. To support the project vision, the Wells team provided architectural solid panels, architectural insulated panels, structural solid panels, and an innovative feature with three sides of brick columns standing approximately 40' tall. To create this monolithic design, the bricks were placed in the form with one side poured, then tilted to pour the other to achieve the wrapped brick effect. The final columns frame expansive vertical windows to bring

light into the building and create a unique pattern in the building's envelope design.

Throughout the project, the team overcame several challenges, including multiple roll cast and sequential pour panels of brick, a tight jobsite with an adjacent hill, and the fact that several panels weighed nearly 80,000 pounds, requiring the team to reach approximately 100 feet to set them. The installation and erection of the prefabricated concrete took just under two months to complete which allowed other trades fast access to the facility.

General Contractor: **Mortenson Construction**
Architect and Engineer: **HGA**
Owner: **Boston Scientific**
Precaster: **Wells**
Location: **Maple Grove, MN**
Year of Completion: **2020**


www.wellsconcrete.com

University of Nebraska Omaha: Strauss Performing Arts Center Canopy Addition

Renovations and an addition to the Strauss Performing Arts Center at the University of Nebraska Omaha were completed in 2021. Along with the addition of a new canopy, updates to recital hall classrooms, the dedicated piano laboratory and the recording studio will promote the growth of the music school for years to come.

Coreslab Structures (Omaha) worked with HDR to improve the look of the main entrance that was originally built in 1973. In addition to eight new concrete benches that were placed near the main entrance, Coreslab Structures (Omaha) also manufactured a new canopy for the entrance. The cantilevered canopy panels are supported by four aesthetically pleasing columns that were sandblasted to match the building's existing cast-in-place grey concrete exterior finish. Particular consideration was needed structurally because the canopy panels are bearing on the existing building.

Architect and Engineer: **HDR**

Contractor: **Sampson Construction**

Owner: **University of Nebraska**

Precaster: **Coreslab Structures (Omaha) Inc.**

Precast Specialty Engineer:

Coreslab Structures (Omaha) Inc.

PCI Certified Erector: **Atlas Steel Erection**

Image Credits: **Matt Corbitt**

Location: **Omaha, NE**

Year of Completion: **2021**



www.coreslab.com



Madonna Rehabilitation Hospital – Lincoln Campus Expansion and Renovation



The Madonna Rehabilitation Hospital – Lincoln Campus Expansion and Renovation project includes an approximately 110,000 SF addition. The expansion is made up of three levels with food service, supporting office spaces, a mechanical area, and storage facilities located on the main level. Madonna's new main entrance boasts a modern design with easy access for visitors, patients, and employees.

Patient rooms and support for them occupy Levels 100 and 200. Using feedback from former Madonna patients and current Madonna staff, Davis Design and Sampson

Construction specifically designed this new space with patient safety in mind. Each 371-square-foot patient room has more space for equipment near each bed, seamless transitions between surfaces, and a zero-grade threshold shower.

Hybrid steel and precast construction define the upper floors and roof structures while metal stud framing with composite aluminum panels and brick veneer highlight the building exterior. The need to match existing floor-to-floor heights in certain areas of the building was met through the use of a hybrid construction system.

This system is made up of shallow steel beams and columns that are paired with approximately 98,600 SF of 8" hollowcore planks and complete with a 3" concrete topping. The design of the floor system also compensated for the need to maintain low floor-to-floor heights due to a limited overall building height allowance.

About 6,800 SF of 10" solid precast wall panels serve not only as stair and elevator enclosures, but also as the primary shear walls for the addition. The structural solid precast concrete panels are a structural grey concrete with a standard form finish. They are part of a wall system that includes exterior applied insulation, a furring system, and composite aluminum panels with field-installed face brick.



Architect and Engineer: **Davis Design**
Contractor: **Sampson Construction**
Owner: **Madonna Rehabilitation Hospital**
Precaster: **Concrete Industries, Inc.**
Location: **Lincoln, NE**
Year of Completion: **Summer 2022 (Addition),
Spring 2023 (Renovation)**



www.concreteindustries.com

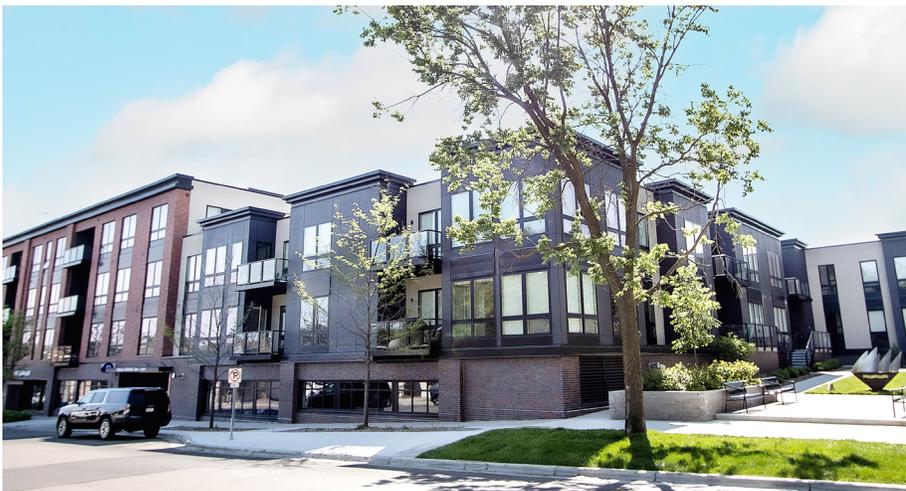
The Lorient



The Lorient is a boutique mixed-use development set in the charming Morningside neighborhood of Edina, MN. This quaint area is nestled just outside Minneapolis and offers a unique feel with parks, historic architecture, and exceptional dining and shopping experiences all within walking distance.

The project includes 45 luxury rental apartments, 6,500 square feet of restaurant and retail space, 77 below-grade resident parking stalls, and 40 at-grade, covered public parking stalls. Patios, rooftop views, and outdoor spaces provide residents with access to nature while still delivering a city living experience. The Lorient is impressive with its modern amenities, premium services, and elegant details.

Taracon Precast manufactured over 60,500 SF of hollowcore, 130 inverted tee beams, and 56 columns for the foundational support, elevator shafts, and multi-level flooring. Designers were able to use precast stepped ledge beams and columns with varying haunch heights for balcony and amenity decks. Precast concrete was selected for this project because of its durability and load-bearing capabilities.



Architect: **ESG**
Engineer: **Meyer Borgman Johnson**
Contractor: **Stevens Construction Corp**
Owner: **Orion**
Precaster: **Taracon Precast**
Precast Specialty Engineer:
Midwest Structure Engineering Inc.
PCI Certified Erector: **Wysan Precast Services**
Location: **Edina, MN**
Year of Completion: **2020**



www.taraconprecast.com

Shakopee Flats

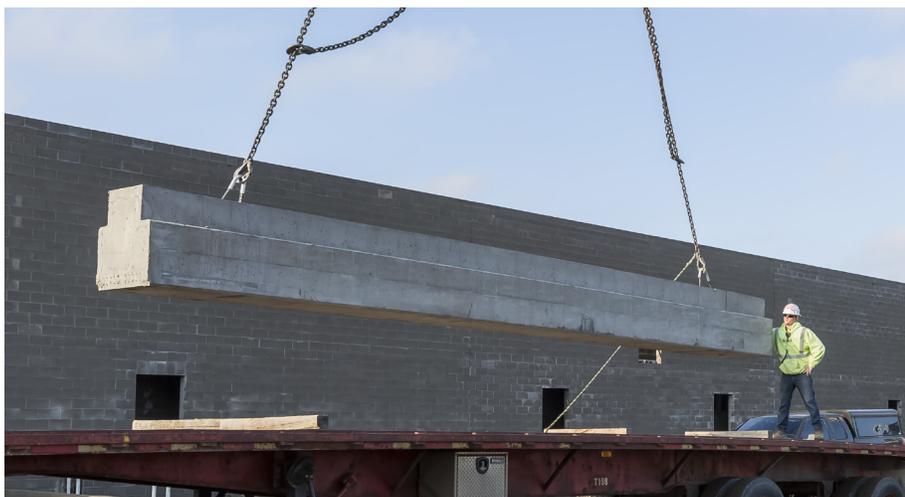


Shakopee Flats is a market-rate apartment and townhome development along the Minnesota River in downtown Shakopee, Minnesota. On the ground floor, the complex also offers retail and restaurant space. This building and its location are a gateway to Shakopee, featuring elegant and durable materials that emphasize the historic nature and revitalization of the site.

County Prestress' Hollowcore was specified for cost savings and installation efficiency. The erector set almost 60,000 SF of hollowcore in three weeks, allowing early access to the site for other trades. Value engineering services from County Prestress helped keep the project within budget.

County Prestress manufactured and delivered 28,000 SF of 8-inch depth hollowcore, 32,000 SF of 12-inch depth hollowcore, and 1,666 SF of 12-inch depth solid slabs and coordinated with the contractor and erector to ensure the project was completed on time.

Hollowcore podiums allow column-free spaces for ground floor retail, and offer high fire ratings, noise reduction, and energy efficiency that benefits residents who live in the apartments and townhomes.



Architect: **Momentum Design Group**
Engineer: **Erickson Roed & Associates**
Contractor: **Greystone Construction**
Owner: **City of Shakopee**
Precaster: **County Prestress, LLC**
PCI Certified Erector: **Zachman Precast LLC**
Developer: **Gaughan Companies**
Location: **Shakopee, MN**
Year of Completion: **2022**


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www.countymaterials.com

Como Park Animal Hospital

Molin Concrete Products designed, manufactured, and installed a total precast concrete structure for the Como Park Animal Hospital in Roseville, Minnesota. The original steel building design was converted into a total precast concrete solution and was erected in four weeks during harsh winter conditions.

The Molin sales and design team provided design assistance to keep the project on schedule and within budget. The final plan included precast/prestressed concrete beams, precast columns, insulated architectural wall panels, and hollow core for the roof and floors. Molin also incorporated 16" hollow core to reduce the number of columns and give the owner a wide-open space for interior design.

The owner liked the rich look of brick and wanted a building that stood out from the surrounding businesses. To meet the desired aesthetics, Molin manufactured architectural wall panels with two distinct colors of cast-in thin brick.

The Molin team worked hard to design the total precast structure to fit the architectural and structural constraints of the project. The results are a perfect display of the flexibility and efficiency of precast concrete. The Como Park Animal Hospital project included over 21,000 square feet of hollow core, 254 lineal feet of prestressed concrete beams, 194 lineal feet of precast concrete columns, and 15,003 square feet of insulated and non-insulated architectural precast wall panels.

Architect: **Lampart Architects, Inc.**

Engineer: **BKBM Engineers, Inc.**

Contractor: **Big-D Construction Corp.**

Owner: **Como Park Animal Hospital**

Precaster: **Molin Concrete Products Co.**

Precast Specialty Engineer:

Molin Concrete Products Co.

PCI Certified Erector: **Molin Concrete Products Co.**

Location: **Roseville, MN**

Year of Completion: **2022**



www.molin.com

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