



PCI Central Region
PRECASTER
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Issue 18

Little River Casino Resort

Manistee, Michigan

The Little River Casino Resort project was originally designed with masonry. With an extremely tight schedule and a January construction start, along with the many other advantages of precast concrete, the construction team decided precast would be the preferred system of choice. The hotel features 44,159 sq.ft. of hollowcore floor plank, 22,179 sq.ft. of 8" solid demising walls, elevator, stair-shaft walls, and precast balcony slabs.



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"With the kind of winter conditions we have in Northern Michigan, we needed to be able to work regardless of the weather conditions. Using precast allowed us to do just that."

Scott Potter, The Christman Co.



Alexian Village, Canyon View

Signal Mountain, Tennessee

Located on Signal Mountain, in scenic city Chattanooga, sits Alexian Village, a continuing care retirement community that offers a wide variety of luxury living units. The new Canyon View building, overlooking the Grand Canyon of the Tennessee River, features CMU wall bearing construction and 120,000 square feet of 8" Hollow Core panels. The project also consisted of 10" hollow core panels covering the underground parking structure.

"We have been using hollowcore construction for the past 25 years on projects in the Chattanooga area. We have found precast hollowcore panels to be an economical, substantial floor system that provides first-rate fire rating properties and design flexibility."

Alan Derthick
Derthick Henley & Wilkerson Architects



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Precaster: Sequatchie Concrete Service

Architect: Derthick Henley & Wilkerson Architect

Engineer: Bennett & Pless, Inc.

The Woodlawns

Chicago, Illinois

The 20,000 square foot Woodlawns was the first foray into the low-rise multifamily residential market for Dukane Precast, using its innovative *double-wall* system after previously using the system on single-family homes and an 86-unit assisted living facility. The brick pattern-imprinted and painted *double-wall* of the condominium complex helped the condo in Chicago blend with the surrounding neighborhood of brick exteriors. Approximately 80 *double-wall* wall panels, 40 *double-wall* floor panels, four stairs and six balconies/landings were produced per building.

"Precast's aesthetic benefits and ability to merge with parking facilities make it a strong choice for designers of low-rise multifamily projects across the country."

dukane|precast

Visit www.dukaneprecast.com
(630) 355-8118

Precaster: Dukane Precast, Inc.

Architect: Campbell Tiu Campbell

Contractor: CDP Builders Inc.

Birch River Bridge

Little Birch, West Virginia

The Birch River Bridge, manufactured for Brooks Run Mining Company to carry heavy off-road coal hauling trucks with a gross operating weight of 360,000 lbs. The bridge beam dimensions are a tremendous 39" deep x 48" wide x 44'-0" long.

EASTERN VAULT CO., INC.

Call (304) 425-8955 or
easternvault@frontiernet.net



Precaster: Eastern Vault Company, Inc.

Design Engineer: Richard L. Williams, P.E.

Ford Field Home of the Detroit Lions

Detroit, Michigan

If you happen to find yourself in downtown Detroit, you cannot leave without at least a look at "Ford Field", the place that the "Detroit Lions" call their home. Precast concrete proved to be the most efficient way to reduce construction time and cost, and at the same time achieve an elegant and attractive look for the building that quickly became one of Detroit's landmarks.

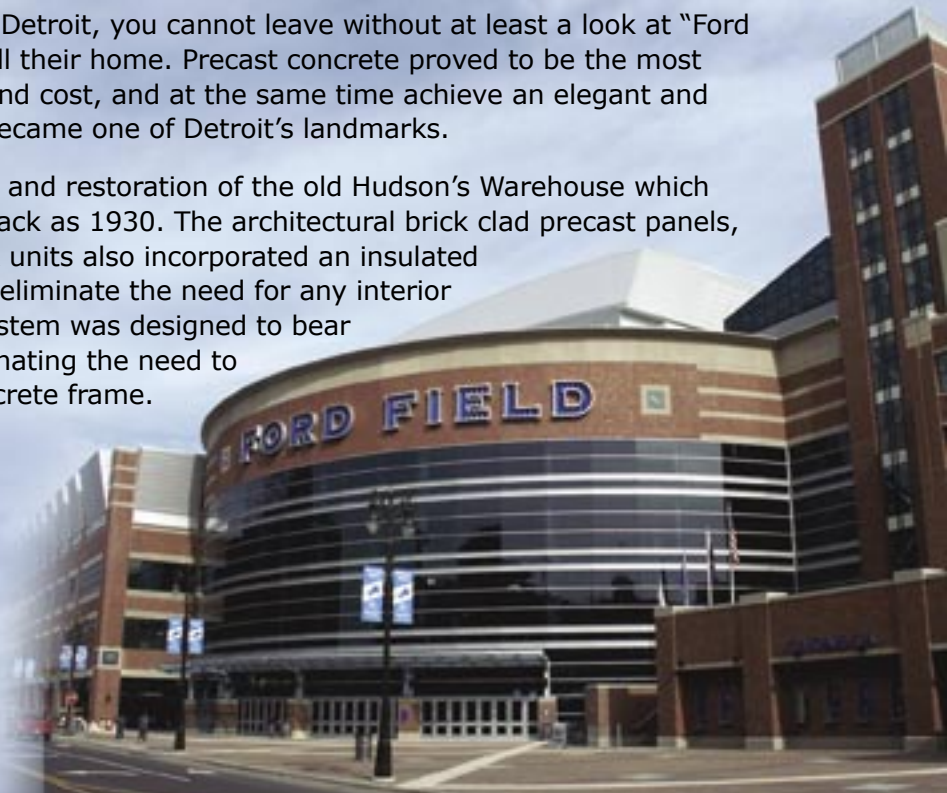
Part of the project includes the rehabilitation and restoration of the old Hudson's Warehouse which featured a concrete structure dating as far back as 1930. The architectural brick clad precast panels, which included over 1 million individual brick units also incorporated an insulated sandwich system. This enabled designers to eliminate the need for any interior finishes. Additionally, the exterior precast system was designed to bear completely off of new foundations thus eliminating the need to add any gravity supports to the existing concrete frame.

"Hard work and dedication of the whole design office helped to produce one of the most memorable buildings in downtown Detroit."

Jovo Mitrovic, P. Eng., Precast Design Solutions Inc



Visit www.nationalprecast.com
(586) 294-6430



Precaster: National Precast Inc. Architect: Rossetti Architects / Smith Group Inc. Engineer: Thornton Tomasetti
Precast Consulting Engineer: R.Sneddon & Assoc. / Precast Design Solutions Inc.

University of Michigan Ann Street Parking Deck

Ann Arbor, Michigan

The University of Michigan has had nothing but “rave reviews” for the architectural shear-precast wall members which require intricate form-work, coloring, and blasting.

The Ann Street Parking Structure is a 190,000 square-foot, seven story, five-hundred thirty five car deck on a very tight site in downtown Ann Arbor. With over 500 pieces in the job, not one piece was rejected due to quality and all fit cleanly into place. Thus keeping the project on schedule.

“Using precast provided for a quick construction. The project was fully erected with no major issues in twelve weeks.”

Jonathan Woodsum, Barton Malow Company



www.stressconindustries.com
(313) 873-4711



Precaster: Stress-Con Industries, Inc

Precast Engineer: HGA – Dr. Medhat Ghabrial

Architect and Engineer: Walker

Beaubien Place Parking Deck

Detroit, Michigan



“The elegant and complex exterior design of this 8 story garage in the heart of Downtown Detroit, and the time constraint to deliver the structure before Super Bowl XL made precast the only viable construction option.”

*Medhat Ghabrial
HGA, Precast Engineers*

Because of the speed of using precast concrete, the Beaubien Place parking deck was ready for parking for the 2006 Superbowl. The deck, attached to the GM Headquarters on the Detroit River, consists of 20,000 sq.ft of retail space facing the river front, 1180 car parking, and 18,000 sq.ft plaza area on roof which includes artificial turf.

The GM parking deck has retail on ground level, event or stage area on roof, along with parking and attached with walk way to GM headquarter the Renaissance Center.



www.renaissanceprecast.com/renaissance.asp
or (313) 297-7700



Precaster: Renaissance Precast Industries

Architect: SmithGroup Incorporated

Engineer: Hanna Ghobrial & Associates

AIA/CES Registered Lunch & Learn Programs

To arrange an AIA/CES presentation for Professional Development Hours in your office, register online at www.pcicentral.org/llp. Any questions please email phil@pci-central.org or call 937-833-3900.



<i>Program #</i>	<i>Program Title/Description</i>	<i>HSW Learning Units</i>
AP002	Architectural Precast: Detailing & Structural Considerations Intended to familiarize architects with the various processes and aesthetic options used in the production of precast concrete.	1.5
HC001	Hollowcore See the manufacturing process and discover the benefits of using hollowcore. Finished projects are reviewed to show a variety of design applications.	2.0
PS001	Precast Parking Structures: Design & Construction Learn how to design precast parking structures to maximize economic efficiencies and create a more open and well-lit environment.	1.5
SCHOOL	Design with Precast for Schools This program demonstrates how a wide assortment of precast concrete construction materials can be utilized in the design of school facilities.	1.5
HPWP05	High Performance Architectural Precast Wall Systems Architects and others can learn about the numerous benefits of designing with a fully insulated, load-bearing exterior architectural precast wall system.	1.5
I001	Precast Industrial Structures: Design & Construction Learn the benefits and advantages of an integrated design approach in the design of specific types of precast industrial structures.	1.5
TOPRST	Total Precast Structures The program will familiarize the participant with what a total Precast concrete structure is, how a total Precast structure can benefit a project, and what components are used to construct a total Precast structure. Keys to a successful project will also be covered	1.5
H001	Precast Housing Structures Design & Construction Learn how many precast components can be used in the design & construction of cost-efficient, multi-family housing structures.	1.5

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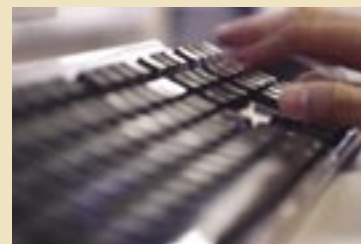
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Prestress Services Industries, LLC

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Cornerstone at Norwood Parking Structure

Cincinnati, Ohio

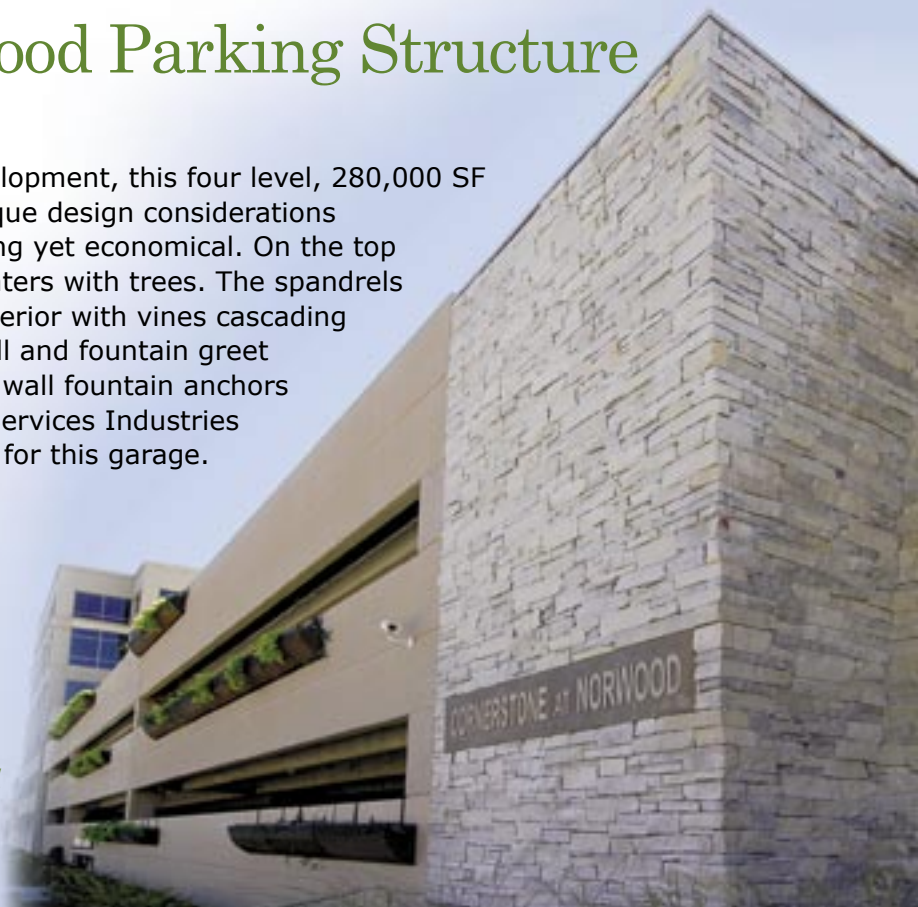
As part of the Cornerstone commercial development, this four level, 280,000 SF parking structure features a variety of unique design considerations which make this project visually stimulating yet economical. On the top level, 42" deep double tees support large planters with trees. The spandrels feature integrated hanging baskets on the exterior with vines cascading downward toward the ground level. A waterfall and fountain greet visitors at the entrance and a large limestone wall fountain anchors the opposite corner of the garage. Prestress Services Industries supplied over 620 pieces of structural precast for this garage.

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(859) 299-0461

"Precast was definitely the best option based on the tight schedule. Using precast met every one of those challenges while still maintaining the highest levels of quality."

Jeffrey M. Reder, P.E., Steven Schaefer Associates, Inc.



Precaster: Prestress Services

Architect: Neyer Architects and Engineers

Engineer: Steven Schaefer Associates, Inc.

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