

PCI Central Region

PRECASTER

precaster
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Issue 16

Air Traffic Control Tower

Martinsburg, West Virginia

West Virginia Air National Guard's 167th Airlift Wing was in need of a new Air Traffic Control Tower to support their large C-5 transport airplanes. Sidley Precast engineered, fabricated, delivered and erected the architectural and structural precast concrete components for the 10-story, 128 ft tall tower in less than ten months.

The geometry of the arched and inverted precast on the Air Traffic Control Tower proved to be one of the toughest challenges the project team had to overcome. The entire process had to be carefully crafted: engineering of the shop drawings, coordination with bracing and framing installed by the structural steel subcontractor, and the rigging, hoisting and erection the precast within the limited access available. To add another degree of difficulty, the erection took place on the 8th and 9th floors of the tower.

Technical Notes: *The main tower support shaft is comprised of approximately 12,558 SF of load bearing wall panels. The wider architectural feature above the 8th floor to the catwalk and cab level utilized 3,473 SF of architectural precast non-load bearing wall, arch and fascia panels.*



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"The precaster's engineering, fabrication and erection personnel worked together to successfully overcome this challenge and safely install a quality product in accordance with the project schedule."

Jesse Rice, Project Executive, Clark Construction Group, LLC

PCI Central Region Upcoming Events

June 13, 2006

PCI Design Handbook Seminar
- Indianapolis, IN

June 14, 2006

PCI Design Handbook Seminar
- Columbus, OH

June 15, 2006

PCI Design Handbook Seminar
- Detroit, MI

June 16, 2006

PCI Design Handbook Seminar
- Pittsburgh, PA

June 29-30, 2006

**PCI Central Region (Summer Event)
Membership Meeting**
- Cincinnati, OH

For a complete
Calendar of Events visit -
www.pci-central.org/events

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Michigan Opera Theatre Parking Center

Detroit, Michigan



*"It is the bold features of this project that made precast
the construction material of choice."*

Patrick Hager, Architect

The seven level, two module 782 space Detroit Opera House Parking Center garage is in a neoclassical style suggestive of the original architecture of the Detroit Opera House it was built to serve. It is part of a growing revitalization to the urban landscape of the city. The parking center also contains an office that houses the parking management and valet staff along with a security center for the entire Opera House complex. Additionally, a retail building forms part of the structure, providing for an attractive mixed-use component.



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The base precast panels at the ground floor perimeter have strong rustications that mimic quarried stone work, and the horizontal wall panels have integral cast fluted pilasters with openings that render a "window" look of a more traditional building. These features, along with the use of decorative precast medallions that duplicate the visage of a "theatrical character", help identify the parking structure as a component of the Detroit Opera House through its architecture.

PCI Design Handbook 6th Edition Seminars

June 13th – Indianapolis

June 14th – Columbus

June 15th – Detroit

June 16th – Pittsburgh

All Seminars from 8:00 a.m. - 5:00 p.m.

Seminar Registration Fee

Design Professional \$95

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The seminar includes a copy of the PCI Design Handbook 6th Edition (a \$260 value), plus CD, seminar notes, breaks and lunch.

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Recent changes in building codes and standards, issued by ASCE, ACI, and IBC, are the most significant in 40 years. The just-published 6th Edition of PCI's Design Handbook updates these critical changes for design professionals and precast plant engineers.

Earn

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REGISTER ONLINE: www.pci.org/handbook

Any Questions Contact: Danielle Lang - dlang@pci.org / (312) 360-3212

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Seminar Date _____ Location _____

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Special \$205 discount for Design Professionals located in the PCI Central Region

Huron Line Pedestrian Bridge

Windsor, Ontario

The bridge was designed using prestressed precast concrete box beams, four per side, each spanning ninety feet bearing on cast-in-place abutments. Since the highway serves as the main artery of business travel between Canada and the United States, the bridge had to be aesthetically pleasing. To help accomplish this there is a large area on the bridge set aside for the inclusion of landscaping, trees, and shrubbery. The Prestressed Group helped incorporate a precast planter into the design that would accommodate two or three full-grown trees, as well as other small bushes and flowers. The manufacturing of this piece was accomplished with a custom built form and two separate casts of concrete totaling over eleven cubic metres.

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"The ability to perform installation of the precast prestressed concrete bridge components through the night made precast a better and faster solution than cast-in-place concrete for this project".

Don Gardonio, Facca Incorporated



Precaster: The Prestressed Group

Architect: Stantec Consulting Ltd.

Contractor: Facca Incorporated

OSU Biomedical Research Tower

Columbus, Ohio



Ohio State University's new 14-story 400,000 square foot Biomedical Research Tower is now the largest research facility on the OSU campus. The exterior of the building, which was completed early this year, features thin brick faced panels and panels with a sandblast finish. A unique feature on both types of panels is an inlaid band of metal that is installed into a 1-5/8" deep recess in the face of the precast panels. The 6-1/2" thick by 31'-0" long panels were erected onto the building before the metal infill panels were installed. A red mortar color was used in the brick area to create a monolithic look.

Ohio State University has used extensive amounts of both structural and architectural precast concrete over the past twenty years. The University demands and monitors very closely their construction schedules. Precast concrete greatly facilitates on time performance.



Visit www.gateprecast.com
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Precaster: Gate Precast Company, Inc.

Architect: Venturi, Scott, Brown & Associates/Karlsberger

Engineer: Korda/Nemeth

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Program # Program Title/Description

HSW Learning Unit's

AP002	Architectural Precast: Detailing & Structural Considerations	1.5
	Intended to familiarize architects with the various processes and aesthetic options used in the production of precast concrete.	
HC001	Hollowcore	2.0
	See the manufacturing process and discover the benefits of using hollowcore. Finished projects are reviewed to show a variety of design applications.	
PS001	Precast Parking Structures: Design & Construction	1.5
	Learn how to design precast parking structures to maximize economic efficiencies and create a more open and well-lit environment.	
SCHOOL	Design with Precast for Schools	1.5
	This program demonstrates how a wide assortment of precast concrete construction materials can be utilized in the design of school facilities.	
T-110	High Performance Architectural Precast Wall Systems	1.5
	Architects and others can learn about the numerous benefits of designing with a fully insulated, load-bearing exterior architectural precast wall system.	
I001	Precast Industrial Structures: Design & Construction	1.5
	Learn the benefits and advantages of an integrated design approach in the design of specific types of precast industrial structures.	

Register online at www.pcicentral.org/llp.



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