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fall 21

HEAD OF THE CLASS IN PRECAST CONCRETE

Architect:
Legat Architects, Inc

Contractor:
Bush Construction

Owner:
SD Mark Twain Elementary

Precaster:
Taracon Precast

PCI Certified Erector:
Wysan Precast Services

Formliner Manufacturer:
Fitzgerald Formliners

Thin Brick Veneer:
Riverstone Group

Precast Project Manager:
Ryan Miles

Photo Credits:
Boyd Fitzgerald Imaging

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Verona Road Bridges



Verona Road, along US Highway 18/151, was easily congested and posed a hazard due to its dated design. To reduce the number of accidents, the Wisconsin Department of Transportation coordinated a multi-year replacement project to improve traffic flow.

The project expanded several highways and reconstructed the Williamsburg Way and McKee Road interchanges.

County Materials Corporation manufactured

and delivered 66 prestressed concrete bridge girders, measuring 95 to 109 feet long, for two interchange reconfigurations. Prestressed concrete girders were specified for their inherently long service life and low life cycle cost. Additionally, County Materials' enhanced production capacity and local availability ensured the project's timely completion and greater flexibility with girder deliveries.

Originally, the contractor scheduled two days for the delivery of 22 prestress girders for

the Williamsburg Way interchange; however, incoming inclement weather conditions prompted crews to reschedule the delivery for a single day with one day's notice.

"After discussion with our field staff, I decided to reach out to County Materials to see if all 22 girders could be delivered the next day. Within the hour, they called me back saying they could make it happen," said a Lunda Construction representative.

A few months later, 44 prestressed bridge girders were delivered for the McKee Road interchange reconstruction. The girders were delivered within four days, keeping the project on schedule for its 2019 completion.

Contractor: **Lunda Construction Company**

Owner: **WisDOT**

Precaster: **County Materials Corporation**

Image Credits: **County Materials Corporation**

Location: **Fitchburg, WI**

Year of Completion: **2019**



www.countymaterials.com



The Lights Parking Ramp



The Lights, a mixed-use commercial, residential, and active living space is soon to be filled with over 20 businesses and nearly 300 residential units. The 400-space parking ramp anchored at the north end allows ample parking for residents and customers, one of the many perks of The Lights project plan. Nestled in the middle of one of the fastest-growing communities in West Fargo, and with goals to host over 100 events a year, the space will provide the perfect backdrop for community-building opportunities.

Overall construction objectives for The Lights Parking Ramp were time, labor, and resource savings. Taracon Precast manufactured, delivered, and installed the precast concrete for the project in 72 production days which meant the project was completed on time and under budget.

Additional labor savings were achieved because construction crews were able to use the precast concrete stairs immediately after they were installed. The need for

temporary stairs or scaffolding was eliminated and the workers were able to move seamlessly throughout the four levels while hauling materials.

Precast concrete's durability, low maintenance characteristics, energy efficiency, and fast erection schedule made it the perfect choice for this project. In addition, precast concrete's aesthetic versatility enhanced the building design and highlighted the different textures and visual nuances that make the structure stand out.



Architect: **ICON Architectural Group**
Engineer: **Walker Consultants**
Contractor: **Gehrtz Construction Services**
Owner: **Epic Companies and City of West Fargo**
Precaster: **Taracon Precast**
Precast Specialty Engineer:
Midwest Structure Engineering Inc
PCI Certified Erector: **Wysan Precast Services**
Project Manager: **Ryan Miles – Taracon Precast**
Location: **West Fargo ND**
Year of Completion: **2020**



www.taraconprecast.com

First PREMIER Bank Headquarters

Located at the gateway to downtown Sioux Falls, SD First PREMIER Bank opened its new headquarters in April of 2021. The five-story, 77-thousand square foot building features a two-level, 56-space parking ramp. Structural columns, beams, slabs and double-tees allowed for a main level parking deck while supporting one level of underground parking beneath the entire structure.

The headquarters stands tall against neighboring buildings and has changed the cityscape of the downtown area. Due to the height of the building, design assistance was utilized to help engineer unique shear wall base connections for large wind loads. In addition, the vault area was very congested with steel. Gage Brothers was able to work with the engineers to maneuver the precast concrete through these tight areas.

This building project was successfully constructed on time during a pandemic. Construction started with six levels of structural precast shear walls at the elevator and stair towers. Next came five levels of a combination of sand blast and light etch finished architectural panels, and multiple angled diamond and polished granite stone clad panels on the main building.

Working on this tight jobsite in the downtown area meant that space was always a consideration. Through careful communication with the construction managers, Gage Brothers coordinated the numerous deliveries of precast panels each day while working around large commercial equipment to accommodate the limited space available for drop off.

Architect: **Architecture, Inc.**

Engineer: **SEA**

Contractor and PCI Certified Erector:

Henry Carlson Construction

Owner: **First Premier Bank**

Precaster and Precast Specialty Engineer:

Gage Brothers

Photo Credits: **Brian Rotert with Cipher Imaging**

Location: **Sioux Falls, SD**

Year of Completion: **2021**

Gage
Brothers

www.gagebrothers.com



Pleasant Hill Public Safety Facilities

The City of Pleasant Hill, Iowa was in need of new facilities for its fire and police departments. The new Public Safety Facility houses the eastern Polk County suburb's police department. It also includes apparatus bays for the fire department. As the City planned for the new facility, they knew that the building needed to be functional, durable, and aesthetically pleasing.

Precast concrete provided the designers the ability to create an efficient and cost-effective design that still included stunning

aesthetics. The strength and durability of precast concrete coupled with the variety of architectural finishes available made precast concrete the best solution to meet the project requirements.

Precast concrete was able to deliver on both its structural and architectural advantages. Double-tees, hollowcore, insulated wall panels, and solid wall panels made the structure solid and durable. The thin brick, integral color, formliners, and acid etching made the structure something this growing

Des Moines suburb could be proud of.

Architect and Engineer: **FEH Design**
Contractor: **Ryan Companies**
Owner: **City of Pleasant Hill, IA**
Precaster and Precast Specialty Engineer:
PDM Precast
Location: **Pleasant Hill, IA**
Year of Completion: **2020**

PDM

www.pdmprecast.com



Iowa State University Sports Performance Center



A new four-story Sports Performance Center connected to the Bergstrom Football Complex at Iowa State University has recently been completed in Ames, Iowa. The ISU football facility expansion encompasses nearly 20,000 square feet of additional space for locker rooms, team lounges, and other miscellaneous gathering spaces.

Architectural precast has a strong presence throughout the Jack Trice Stadium and surrounding football complex buildings. A vast amount of the north and south endzone renovations incorporated architectural precast panels on the walkways. The two-finish buff-colored panels are showcased in each of the most recent additions and renovations at the north end of Jack Trice Stadium.

To match the rest of the existing facilities around Jack Trice Stadium, precast concrete was chosen as the best fit for the Sports Performance Center project. Because precast concrete has the unique ability to create nearly any color, finish, or texture, its

use benefited the overall project immensely. It was essential to match color and finish to the existing, separate structures to provide a cohesive appearance.

Structural precast was utilized as a load-bearing element for the steel trusses. Throughout the entire length of the new building, the large trusses are supported by precast concrete wall panels.

“Neumann Brothers and Wells worked together to complete this multi-phase job with tight deadlines, a unique design and increased quality requirements enhancing ISU’s athletic programs, recruiting tools and the landscape of the Jack Trice Stadium. Our teams worked closely to develop phased scheduling and installation sequences that allowed us to meet the owners project goals, expectations, and deadlines. Without the teamwork involved in the early stages of the project, this project would not have been a success. It takes partners like Wells and upfront coordination

between our teams to complete a project of this size and complexity safely, on time, and with the exceptional service that we strive to provide.” – Matt Davis (Project Manager/ Shareholder) Neumann Brothers

In total, Wells Concrete produced 14,000 square feet of insulated architectural wall panels, 9,000 square feet of solid architectural wall panels (interior around stairs), 8,500 square feet of solid wall panels (elevator shafts), and 300 lineal feet of stick columns for the project.

Architect: **Substance Architecture**
Engineer: **Raker Rhodes**
Contractor: **Neumann Brothers, Inc.**
Owner: **Iowa State University**
Precaster: **Wells Concrete**
PCI Certified Erector: **Northwest Erection Inc.**
Photo Credits: **Nathan Scott Photography**
Location: **Ames, IA**
Year of Completion: **2021**



www.wellsconcrete.com

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