

PRESS RELEASE

Rachel Bangs
Administrative Specialist
515.965.4575
rbangs@concretestate.org

FOR IMMEDIATE RELEASE
November 14, 2019

IOWA READY MIXED CONCRETE ASSOCIATION ANNOUNCES 2019 EXCELLENCE IN CONCRETE AWARDS

AMES, IOWA - The 26th Annual Excellence in Concrete Awards were announced on November 14, 2019, at a ceremony in Ames, Iowa. The Iowa Ready Mixed Concrete Association (IRMCA) and American Concrete Institute (ACI) Iowa Chapter hosted the awards luncheon during the Iowa Better Concrete Conference.

The Excellence in Concrete Awards recognize outstanding projects from throughout the state. Entries were judged on the following criteria: architectural design, engineering and construction challenges, complexity of project, uniqueness of project, workmanship, finished impression, and diverse application of ready mixed concrete.

The 2019 Excellence in Concrete Award winners are listed below by category.

AGRICULTURAL CATEGORY

Prestage Foods of Iowa, Eagle Grove

Ready Mixed Concrete Producer: Cemstone Concrete Materials, LLC, Fort Dodge

Owner: Prestage Foods of Iowa, Eagle Grove

Concrete Subcontractor: Jensen Builders LTD, Fort Dodge & Millennium Concrete, Coralville

Architect/Engineer/General Contractor: Epstein Global, Chicago

Prestage Foods of Iowa started construction of its 700,000 SF pork processing plant in late 2017. This project consisted of many different types of structures of different complexity ranging from a rendering facility and water treatment plant, a livestock building with stamped flooring, cut floors, snap chill floors, foundations and stun pits. Over the next 16 months, concrete contractors were successful with the many challenges of working on a large site with overlapping contractors, all while dealing with the elements. With much ready mix involved, delivering a quality project without compromising safety was often a challenge, but always achieved. This project consisted of many concrete contractors and was a huge success for all those involved.

ABOVE-GRADE BUILDINGS CATEGORY

Bishop Heelan School Gymnasium, Sioux City

Ready Mixed Concrete Producer: GCC Ready Mix, Sergeant Bluff

Owner: Bishop Heelan High School, Sioux City

General Contractor: WA Klinger, LLC, Sioux City

Concrete Subcontractor: Goss Foundations, Inc., Longwood, FL

ICF Supplier: LiteForm, South Sioux City, NE

Architect/Designer: DLR Group, Omaha, NE

Engineer: Advanced Technology Engineering Group, LLC, Amarillo, TX

Bishop Heelan High School was built in 3 phases with the gymnasium being the final phase. When the bid went out, the gym became \$1M more than original budget and would not close on time due to masonry labor shortages. This was not an option for Heelan as the current gym had a failing roof. For this reason, Bishop Heelan began looking at LiteForm and LiteForm Tilt-insulated concrete sandwich panels. Liteform Tilt is not only energy efficient, but the project could go from footings to walls fully erected in 8 weeks. The annual heating and cooling savings recognized through a fully insulated gymnasium are also substantial. This project involved 26 LiteForm Tilt sandwich panels, the largest weighing 90,000 lbs. It also included slab & retaining wall and FlexxBoard25 Insulation Board. Total time to cast on-site and erect was 15 days.

LOW-RISE BUILDINGS CATEGORY

Ascentra Credit Union Headquarters, Bettendorf

Ready Mixed Concrete Producer: Hahn Ready Mix Company, Davenport

Owner: Ascentra Credit Union, Bettendorf

General Contractor: Russell, Davenport

Concrete Subcontractors: Centennial Contractors of the Quad Cities, Inc., Moline, IL

Architects/Designer: Legat Architects, Moline, IL

Engineer: Select Structural Engineering, Bettendorf

This building utilized composite steel beams to maximize the structural potential of the concrete slab and minimize overall construction cost. The use of this system allowed for an open floor plan with flexibility for the owner to modify the interior floorplan in the future. The lateral support of the structure consisted only of three CMU shafts present in one leg of the L-shaped building. Careful coordination and detailing of trades at interfaces (concrete and steel floor system to CMU walls and CMU walls to concrete foundations) was required to transfer the higher load patterns that would be generated. Complex combined footings were developed where possible that optimized the use of the building's weight. Five concrete mix designs were utilized in this project forming the parking lot and exterior walkways, footings & foundations, multiple interior floor mixes, and stair treads.

MID-RISE BUILDINGS CATEGORY

Krause Gateway Center, Des Moines

Ready Mixed Concrete Producer: Concrete Supply, Inc., Des Moines

Owner: Krause Holdings, Inc., Des Moines

General Contractor/Concrete Subcontractor: Ryan Companies US, Inc., Des Moines

Architects/Designers: Confluence, Des Moines, OPN Architects, Des Moines, & Renzo Piano Building Workshop, Paris, France

Engineer: Silman, New York, NY

The Krause Gateway Center is truly a work of art, built with a team of more than 40 concrete workers who were forced to innovate and deliver at a level rarely seen in our marketplace. The over 163,000 SF 5 story building with a 6th story penthouse and greentop as well as 2 story underground parking structure took 3 years to complete. It features concrete foundations (columns, grade beams, pile caps and walls up to 32' in garage) architectural finished concrete walls, slab on grade, mild reinforced concrete decks (parking ramp area), slab on metal deck (building levels), topping slabs on all levels, and exterior site concrete. The building serves as the

new corporate headquarters for the Krause Group family of businesses and as a vibrant public amenity. Crews performed more than \$12 million in concrete work on this innovative project that highlights the beauty and functionality of concrete.

COMMERCIAL/INDUSTRIAL DECORATIVE CATEGORY

Riverstone Corporate Office, Davenport

Ready Mixed Concrete Producer: Hahn Ready Mix Company, Davenport

Owner: Riverstone Group, Inc., Davenport

General Contractor: Russell, Davenport

Concrete Subcontractor: CDMI Concrete Contractors, Inc., Port Byron, IL

Architect/Designer: Legat Architects, Moline, IL

Engineer: IMEG Corporation, Rock Island, IL

The major element of this building was the polished floor in the lobby and walkways of the building. As an aggregate supplier, Riverstone wished to incorporate a polished aggregate floor as a theme for the building. A combination of coarse and intermediate trap rocks from one of their quarries in Missouri was selected. This mix design was specifically made for final appearance and not necessarily for finishability. This was overcome with perseverance and cooperation between the concrete subcontractor and ready mix producer. The trap rock was so hard, it was quite a challenge to polish the floor. Additionally, low interior walls for counters in the building were also made of concrete and needed to be completely smooth and void of imperfections. It was proposed to use a self-consolidating mix to achieve this result. Six mix designs were ultimately used in this project which helped to achieve the impressive decorative finish of the floors, walls and exterior.

PARKING AREAS/DRIVES (<1,000 CY) CATEGORY

Guttenberg Municipal Swimming Pool, Guttenberg

Ready Mixed Concrete Producer: BARD Materials, Guttenberg

Owner: City of Guttenberg

General Contractor: Portzen Construction, Inc., Dubuque

Architect/Designer/Engineer: Burbach Aquatics, Inc., Platteville, WI

The City of Guttenberg municipal swimming pool had served their community for over 40 years before leaking and shifting ended its life span. The city worked with Burbach Aquatics, Inc. to help design and engineer their new pool facilities. Burbach worked with the city for over 4 years on not only code and conceptual design, but also fundraising and passing a bond referendum. During construction of this recreational facility, the Mississippi was at record high levels. The swimming pool and parking site were next to a large pond fed through a sand and gravel aquifer from the nearby Mississippi River. Several dewatering wells were placed to dry the site. Portzen Construction, Inc., along with BARD Materials, placed the approximately 330 CY of parking area in addition to the pool, deck, and building. The parking area project started in late October 2018 and went throughout the winter of 2019 with the assistance of wireless temperature monitoring with continuous recording. The end of this hard work produced a beautiful all concrete pool and concrete parking area!

PARKING AREAS/DRIVES (>1,000 CY) CATEGORY

Our Lady's Immaculate Heart Parking Expansion, Ankeny

Ready Mixed Concrete Producer: CTI Ready Mix, LLC, Grimes

Owner: Parish of Our Lady's Immaculate Heart, Ankeny

General Contractor/ Concrete Subcontractor: Concrete Technologies, Inc., Grimes

Designer/Engineer: Snyder & Associates, Inc., Ankeny

A busy parish is an active parish where worshippers, volunteers and staff are coming nearly every hour of every day. A thriving parish located in growing Ankeny needed to expand its parking capacity while maintaining access for the many users of the church facilities. By working with Snyder & Associates, Concrete Technologies worked through a phasing plan that accommodated the needs of the church family. Access through various drives allowed parishioners to access all areas of the facility with minimal disruption as well as meeting the accessibility needs. New lighting in the parking lot provides visitors with ample light to attend evening services or meetings. Concrete's reflectivity allows for fewer lights minimizing electrical usage. Stewardship is important for many parishes and Our Lady's Immaculate Heart demonstrates this by using concrete that is sourced from local materials, long-lasting and recyclable. Drainage and landscaping were also part of the project making the result pleasing to the eye and extremely functional.

INFRASTRUCTURE-RECREATIONAL CATEGORY

Guttenberg Municipal Swimming Pool, Guttenberg

Ready Mixed Concrete Producer: BARD Materials, Guttenberg

Owner: City of Guttenberg

General Contractor: Portzen Construction, Inc., Dubuque

Architect/Designer/Engineer: Burbach Aquatics, Inc., Platteville, WI

The City of Guttenberg municipal swimming pool had served their community for over 40 years before leaking and shifting ended its life span. The city worked with Burbach Aquatics, Inc. to help design and engineer their new pool facilities. Burbach worked with the city for over 4 years on not only code and conceptual design, but also fundraising and passing a bond referendum. Burbach then designed a double steel reinforced cast-in-place concrete pool vessel that is the most heavy-duty design in the industry. The swimming pool vessels feature 24" thick concrete walls, 14" minimum concrete floor thickness with a 30" thick concrete expansion joint design. During construction of this recreational facility, the Mississippi was at record high levels. Dewatering wells were placed to dry the site. No challenge was too great for Portzen Construction and BARD Materials, however, as they poured the bathhouse, pool, deck and parking lot. The end result was a beautiful all concrete pool and parking area that will serve the community for years to come!

INFRASTRUCTURE-STRUCTURES CATEGORY

Kirkwood Elevated Water Storage Tank, Cedar Rapids

Ready Mixed Concrete Producer: Croell, Inc., Cedar Rapids

Owner: City of Cedar Rapids

General Contractor: Landmark Structures I, LP, Fort Worth, TX

Engineer: Black & Veatch, Kansas City, MO

The Kirkwood Elevated Store Tank is a 1.5 million gallon potable-water composite elevated storage tank built for the City of Cedar Rapids. The tank consists of a 60 ft. tall, 42 ft. diameter, 1ft. thick reinforced wall designated as architectural concrete topped by a reinforced concrete dome slab and an 80 ft. diameter, 48 ft. tall painted steel tank bowl. The interior of the concrete pedestal contains an insulated room housing remote-sensing equipment and a single 20" inlet/outlet pipe that cycles water to and from the tank into the water system. The tank is built with optimum-performance materials that maximize lifespan with minimal life-cycle cost in maintenance.

RECREATIONAL TRAILS CATEGORY

Des Moines Water Works Park Phase 1, Des Moines

Ready Mixed Concrete Producer: Concrete Supply, Inc., Des Moines

Owner: Des Moines Water Works Park Foundation, Des Moines

General Contractor: Henkel Construction Company, Ames

Concrete Subcontractor: Nehring Construction, Inc., Des Moines

Engineer: RDG Planning & Design, Des Moines

The Des Moines Water Works Park Phase 1 had over 4,000 cy of concrete. Besides dealing with all of the rain and flooding in the job site area, the most difficult part was the infrastructure of the stage. The connective paths and trailways connect into the existing trail system, expanding its use even further. This park is going to be a great area for all of Des Moines where everyone can enjoy outdoor activities, such as concerts in the summertime and walking/biking with all of the trails and open space for people to use throughout the year.

RESIDENTIAL ABOVE-GRADE CATEGORY

Weakland/Ciardo Residence, Ames

Ready Mixed Concrete Producer: Concrete Supply, Inc., Ames

Owners: Joan Weakland and Gianfranco Ciardo

General Contractor: Newcastle Home Builders, Winterset

Concrete Subcontractor: Stromax Construction, Winterset

ICF Supplier: Construction Advantage ICF Supply / AMVIC, Shellsburg

ICF Decking Supplier: LiteForm, South Sioux City, NE

Architect/Designer: Connect Architecture & Design, Des Moines

This home evokes a classical European style that is evidenced by features such as arched door and window openings. Surecrete Stucco with full bed natural stone round out the exterior finishes. The floor of the main level is constructed of poured concrete over a foam decking system (Lite-Deck), as is the upper level exterior deck floor. This accommodates radiant in-floor heat that is tied into the home's geothermal heating and cooling system. Radiant heat is also utilized in the walkout level floor, driveway, front sidewalk and stoop. Also notable is the walkout level "saferoom" for storm protection. This home is situated in a long established neighborhood. Efforts to retain the site's mature trees made it challenging to maneuver construction equipment around. The

exceptionally high water table also proved to be a challenge. Construction of this project spanned more than 3 years from start to finish and produced an exceptionally beautiful home upon completion!

RESIDENTIAL DECORATIVE CATEGORY

Somewhere Under The Rainbow, Vinton

Ready Mixed Concrete Producer: Manatt's, Inc., Vinton

Owners: Mike & Vicky Goble

General Contractor: Calacci Construction Company, Inc., Iowa City

Concrete Subcontractor: Power Concrete Construction & Design Center, North Liberty

Pool Builder: Pool Tech, A WGHK Inc. Company, Cedar Rapids

Architect/Designer: Sundberg Design-Architect, Cedar Rapids

This residential outdoor environment was a huge collaboration of ideas from all involved. The goal of the project was to create a "resort feel" atmosphere with a large free form concrete (shotcrete) pool. The center feature is a custom carved concrete water feature with jumping rock platforms. Curved step treads, walkways, and wrap around pathways lead to this unique feature. Roman Slate seamless stamped concrete coping wraps around the largest known free form pool in the state of Iowa. The project also features a guest house and large gathering area, both with concrete footings, foundations and floors. A hidden foundation below the pool houses the fully automated control system. With the support and service of Manatt's in Vinton, the craftsmanship of the Power Concrete Construction team, and all subcontractors involved, this project was a huge success.

STREETS & INTERSECTIONS CATEGORY

Waterford Road Paving, Urbandale

Ready Mixed Concrete Producer: Concrete Supply, Inc., Des Moines

Owner: City of Urbandale

General Contractor/Concrete Subcontractor: Alliance Construction Group, LLC, Urbandale

Designer/Engineer: Snyder & Associates, Inc., Ankeny

Waterford Road Paving Project was a great project for all involved as well as the Urbandale community. It involved widening Waterford Avenue from 156th Street to 170th Street, along with a new bridge and trails throughout the project. This will help the Urbandale Community grow to the West. Well over 7,000 CY of paving and over 1,200 CY in trails, and 670 CY of concrete in the new bridge. Growth continues west!

INFRASTRUCTURE-BRIDGES CATEGORY

Park Road Bridge, Iowa City

Ready Mixed Concrete Producer: Croell, Inc., Iowa City

Owner: City of Iowa City

General Contractor: Peterson Contractors, Inc., Reinbeck

Concrete Subcontractor: Kraemer North America, Plain, WI

Architect/Designer: HNTB Corporation, Kansas City, MO

Dubuque Street and Park Road are Key transportation links providing access from I-80 to Iowa City's business district and the University of Iowa. The Park Road (Gateway) Bridge provides a critical east-west connection from Dubuque Street to the University of Iowa west campus. This area has a history of Iowa River flood events that result in frequent road closures and in 2008, closure of the Park Road Bridge. This bridge is part of Iowa City's master plan to address the impacts of flooding and provide enhancements to the transportation corridor. Key goals included reducing closures due to flooding, improving user access, and providing a new aesthetic Iowa River crossing that compliments the natural surroundings. The selected structure type consists of a unique three-span, concrete, partial-through tied-arch bridge. It is composed of a continuous post-tensioned tie girder supporting transverse post-tensioned floor beams and mildly reinforced concrete arch. Much creative innovation went into the construction of this unique structure.

For photos of the Excellence in Concrete Award winners or an electronic copy of this press release, visit www.concretesate.org

###

IRMCA is a state organization representing the ready mixed concrete industry.

Join the ConcreteState network

