

PRESS RELEASE

FOR IMMEDIATE RELEASE
December 2, 2020

IOWA READY MIXED CONCRETE ASSOCIATION ANNOUNCES 2020 EXCELLENCE IN CONCRETE AWARDS

AMES, IOWA - The 27th Annual Excellence in Concrete Awards were announced on December 2, 2020 during the Iowa Better Concrete Conference held virtually. The Iowa Ready Mixed Concrete Association (IRMCA) and American Concrete Institute (ACI) Iowa Chapter hosted the awards that are given annually 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 2020 Excellence in Concrete Award winners are listed below by category.

AGRICULTURAL CATEGORY

Five Star Cooperative, New Hampton

Ready Mixed Concrete Producer: Croell, Inc., New Hampton

Owner: Five Star Cooperative, New Hampton

Designer/General Contractor: Empire Ag, LLC, Ankeny

Engineer: KC Engineering, P.C., Sioux City

The Five Star Cooperative in New Hampton boasts this towering slipformed concrete feed mill that stands over 135' tall and features a combined 1,200 tons of ingredient storage and 500 tons of loadout storage. To process the grain, the facility has a 5,000 bushel/hour corn storage transfer

system, one 140 ton/hour ingredient receiving system, two 36 ton/hour roller mills, and a 75 ton/hour batching system. To construct this project, 255 cubic yards of concrete were used in the footing alone. For the mill, 1,098 cubic yards of concrete were swung into place via a crane and bucket operating 24 hours a day for nearly 6-1/2 days. The November weather also presented many challenges and Daraset was used to help speed the set time. Concrete temperatures constantly monitored with the changing weather and crews had to heat and protect the concrete while it cured. The impressive workmanship resulted in a great addition to the Five Star Cooperative!

ABOVE-GRADE BUILDINGS CATEGORY

Fairfield Inn & Suites, Davenport

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

Owner/General Contractor: Heart of America Group, Moline, IL

Concrete Subcontractor: Hidden Valley Builders, Inc., Gays Mills, WI

ICF Supplier: Fox Blocks, Omaha, NE

Engineer: Schaefer Structural Engineers

The new Fairfield Inn & Suites located right off I-74 in Davenport, Iowa, is the newest hotel in a growing demand area. With proximity to the interstate and diverse Iowa weather conditions, a creative solution using Insulated Concrete Forms (ICF) was used to reduce noise and normalize energy cost. Engineered by Schaefer Structural Engineers, the project was brought to life by Heart of America Group and Hidden Valley Builders. Manatt's, Inc. furnished 692 cubic yards of highly pumpable concrete that will give many visitors a peaceful and quiet night of sleep.

This new hotel will serve as a haven for visitors to the growing area and the nearby Trinity Bettendorf Hospital as well as the TBK Bank Sports Complex for many years to come!

LOW-RISE BUILDINGS CATEGORY

PIVO Event Center, Calmar

Ready Mixed Concrete Producer: Croell, Inc., Calmar

Owner/General Contractor: Craig Neuzil, Calmar

Concrete Subcontractor: Northeast Iowa Spray Foam & Construction, LLC, Calmar

Designer: Sara Neuzil, Calmar

This charming small town, full of friendly faces, was excited to hear of this new event center alongside of PIVO Brewery. The people of Calmar now have a great place to hold wedding receptions and

celebrations of all kinds. The design of this project was a collaborative family effort starting with how to best integrate the event center between the existing brewery and maintenance shed while connecting to both. Insulated Concrete Forms (ICF's) were chosen for the walls which incorporate interior and exterior attachment studs, structurally reinforced concrete, along with a continuous air barrier, insulation, and vapor retarder. The ICF's not only provided these elements but saved time and money as well! The center's concrete floors added not only durability, but a unique decorative aspect to the interior. Owners Craig and Sara Neuzil put a lot of their own unique style into developing this event center made out of concrete and hard work. Having lived around the globe, they are happy to call IOWA home. Home of the Concrete State.

MID-RISE BUILDINGS CATEGORY

ISU Student Innovation Center, Ames

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

Owner: Iowa State University, Ames

General Contractor: JE Dunn, Des Moines

Concrete Subcontractor: Ceco Concrete Construction, Overland Park, KS

Architect/Designer: Kieran Timberlake, Philadelphia, PA

Engineer: Saul Engineering, Des Moines

Lots of concrete in this \$84 million-dollar state-of-the-art building located on the west side of the Iowa State University Campus. Wow! Close to 9,000 CY of concrete, and the majority of it is visible. From the exterior walls to the interior columns and ceilings. The polished floor throughout this 146,000 SF building makes the ISU Student Innovation Center shine! To top it off, there is almost 200 CY of lightweight concrete on the roof! When you come for a visit, be sure to have a seat on the concrete benches and admire the beautiful use of concrete. This mid-rise building is decorative concrete at its finest!

COMMERCIAL/INDUSTRIAL DECORATIVE CATEGORY

Jamie Hurd Amphitheater, West Des Moines

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

Owner: City of West Des Moines

General Contractor: Henkel Construction Company, Ames

Concrete Subcontractor: Nehring Construction, Inc., Des Moines

Architect/Designer: OPN Architects, Inc., Des Moines

Engineer: Raker Rhodes Engineering, LLC, Des Moines

The Jamie Hurd Amphitheater is the newest addition to the West Des Moines City/School Campus and serves as a community-based cultural space, bringing people together to share inspiring musical performances and creative showcases. The Jamie Hurd Amphitheater can play host to a wide variety of community events, including concerts, outdoor movies, festivals, and theatrical performances. With a stage built to accommodate up to 50 musicians and lawn seating for up to 2000, the Jamie Hurd Amphitheater is perfect for events of all sizes. Its colored concrete and walkways are a beautiful feature to this recreational area that will get used for many years to come.

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

Hidden Creek Multi-Use, Ankeny

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

Owner/Designer: Hunziker Development, Ames

General Contractor: Hunziker Construction Services, Ames

Concrete Subcontractor: Hetzler & Rhodes Concrete Construction, Nevada

Engineer: Snyder & Associates, Inc., Ankeny

This multi-use project was completed early Fall 2020. The quality of this parking lot and walkway is some of the best craftsmanship out there. The consistency and attention to detail can easily be seen. To top it off, it was completed with a 10-man crew! This 700 CY concrete parking lot will be a great asset to the businesses it serves for years to come!

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

Fleet Farm, Cedar Rapids

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

Owner/General Contractor: Lloyd Companies, Sioux Falls, SD

Concrete Subcontractor: K & M Concrete Construction, Edgerton, MN

Architect/Designer: RSP Architects, Minneapolis, MN

Engineer: ISG, Minneapolis, MN

The Cedar Rapids Fleet Farm site development consumed approximately 21 acres of existing agricultural land re-zoned and redeveloped to a commercial retail site. Discussions centered around the legacy advantages concrete pavement brings to the property owner in reduced maintenance and extended service life to minimize future capital for maintenance, reconstruction, and business interruptions. ISG pavement recommendations were a 6" unreinforced cross section for general traffic areas and a 7" cross section for heavy duty traffic areas. In total, the 415,000 SF of pavement and ancillary site concrete consumed approximately 8,500 CY of concrete. Final finish was achieved utilizing a bull float broom followed with a membrane cure. The team collaboration between all involved proved very successful in turning over a quality site pavement that delivered a low maintenance pavement meeting end users' expectations and supporting a public opening 30 days ahead of schedule.

INFRASTRUCTURE-RECREATIONAL CATEGORY

Mason City Multi-Purpose Arena, Mason City

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

Owner: City of Mason City

General Contractor: Dean Snyder Construction, Clear Lake

Ice Arena Subcontractor: Rink-Tec International, Inc., Vadnais Heights, MN

Architect/Designer: ICON Architectural Group, Grand Forks, ND

Engineer: WHKS, Mason City

A long-awaited project for Mason City, this project remodeled a previous JC Penney store into an ice/multi-purpose arena. Nearly 1,000 CY of concrete for larger foundation and column pads were just part of the re-design. It basically required the placement of a new structure under an old structure, which was eventually coming out. Second floor decking, which extended almost completely around the building consisted of almost 500 CY of lightweight concrete. The ice arena slab utilized a special mix. This highly reinforced slab needed 300 CY of very flowable concrete. This high slump, low water cement ratio mix required the use of mid-range and super plasticizer. Strength results were exceptional and made for great placeability and finishability. Access on the west utilized colored concrete in the exterior wall for an added feature. This amazing remodel project gave the people of Mason City a new reason to visit the mall for multiple events in a reinvigorated building.

INFRASTRUCTURE-STRUCTURES CATEGORY

Red Rock Hydroelectric Project, Knoxville

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

Owner: Missouri River Energy Services, Sioux Falls

General Contractor/Concrete Subcontractor: Ames Construction, West Valley City, UT

Architect/Engineer: Stantec, Chicago, IL

A project that was six years in the making starting in 2014, the Red Rock Hydroelectric Dam Project will add a reliable, renewable energy source for up to 18,000 homes and last for up to 100 years. This concrete project had some challenges ranging from lightweight, underwater mixes, to extreme sub-freezing temperatures, and multiple 24-hour long pours. Ames Construction partnered with the local Manatt's Ready Mix plant in Pella to furnish a total of 118,000 cubic yards of concrete, delivering over 10,700 truckloads out to the dam. This massive structure is not only a grand site to behold, but it will also power homes with sustainable energy for many decades to come!

RECREATIONAL TRAILS CATEGORY

Gear Avenue Trail, West Burlington

Ready Mixed Concrete Producer: Ideal Ready Mix Co., Inc. West Burlington

Owner: City of West Burlington

General Contractor/Concrete Subcontractor: Jones Contracting Corp., West Point

Engineer: Snyder & Associates, Inc., Cedar Rapids

The Gear Avenue Trail project focused on constructing a roughly 3,100' long recreational trail in West Burlington. Tying into an existing trail that connected the Rec Plex Sports Facility to the Great River Health Center and Southeastern Community College. The trail connects high pedestrian traffic facilities to one another with a safe, 10' wide, and ADA compliant path. A PowerPaver SF1700 made quick work of the paving process, with the bulk of the trail being placed in 2 days. Located close to a hospital, extra care was used to ensure no utility lines were hit. The new trail has created the opportunity for a typically busy roadway to have a pedestrian friendly area for exercise. Aesthetically appealing with long winding curves, the trail has become a good addition for college students that are living in the campus dorms as well as for residents and employees of Des Moines County businesses.

RESIDENTIAL ABOVE-GRADE CATEGORY

Lewis Residence, Sioux City

Ready Mixed Concrete Producer: Standard Ready Mix Concrete Co., Sioux City

Owner/General Contractor: Al Lewis, Sioux City

Concrete Subcontractor: Prenger Construction, South Sioux City, NE

ICF Supplier: LiteForm, South Sioux City, NE

Engineer: Schroder Engineering, PC, Sioux City

The Lewis residence is a 3,500 SF concrete home constructed just outside of Sioux City. The owner chose to do an all concrete home using LiteForm Insulating Concrete Forms for the walls and LiteDeck lightweight deck form for the garage and safe room. The basement walls were formed using 8" LiteForm ICF. This project included multiple tight offset corners, varying wall heights, large curved openings and T-intersections. A unique element to this project included a LiteDeck concrete garage floor that clear spans 24'. Under this concrete garage floor is a shop area with a concrete header of 18" over a garage door access. The upper walls are 6" LiteForm ICF with conventional wood roof. There is also a LiteDeck Safe Room under the front porch. Over 235 yards of concrete went into the walls of this amazing home!

RESIDENTIAL DECORATIVE CATEGORY

Scharnberg Barn, St. Charles

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

Owner: Mark Scharnberg, St. Charles

General Contractor: Eick & Day Construction, LLC, Johnston

Concrete Subcontractor: Amstutz Concrete, LLC, Norwalk

Architect/Designer: SVPA Architects, Inc., West Des Moines

Engineer: Tometich Engineering, Urbandale

Check out this amazing country family retreat! This little "getaway" has 160 CY of footings, 180 CY of Interior Brickform Sun Buff Integral Color Concrete polished to a high sheen for its beauty and easy maintenance. The exterior patio that wraps around the barn has 200 CY of Scofield Coachella Sand Integral Color Stamped Concrete to give it an old rustic wood deck look. The family will enjoy this unique barn getaway for many years to come!

STREETS & INTERSECTIONS CATEGORY

35th/36th St. Ave L Project, Fort Madison

Ready Mixed Concrete Producer: Ideal Ready Mix Co., Inc. West Burlington

Owner: City of Fort Madison

General Contractor/Concrete Subcontractor: Jones Contracting Corp., West Point

Designer/Engineer: HR Green, Inc., Cedar Rapids

The goal of this project was straightening out a sharp “S” curve on the 4 lane highway in the city. The “S” curve on the existing road was classified as having the highest crash rates in the corridor. The new design would open the curve allowing better visibility and improve traffic flow, resulting in fewer incidents. The project used the Iowa DOT C-4WR-C mix in all the paving and sidewalks. With the amount of traffic on this roadway, several detours were created to allow existing businesses to remain in operation throughout the project’s duration. This reconstruction project will also include a multi-use recreational trail using some of the city’s existing right of way property. The trail will eventually connect to sidewalks and trails leading to the downtown area. This project is definitely a win/win in both function and safety for the city of Fort Madison!

INFRASTRUCTURE-BRIDGES CATEGORY

IA 1 Over Camp Creek Lateral Slide, Kalona

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

General Contractor: Peterson Contractors, Inc., Reinbeck

Concrete Subcontractor: Streb Construction, Co., Inc., Coralville

Architect/Designer: Iowa DOT Bridges and Structures Bureau, Ames

Engineer: Iowa DOT District 5 Office, Fairfield

This bridge project was completed with Accelerated Bridge Construction (ABC) using a lateral slide system to limit a 26 mile detour and associated road user costs during bridge replacement. This was the second lateral bridge slide project by the Iowa Department of Transportation. The Bridge Staging Area (BSA) was located 110’ off IA 1 alignment while traffic utilized existing bridge. BSA was set up to install temporary falsework to support the single span 120’ x 44’ pretensioned, prestressed concrete beam bridge and prepare for lateral move after cure. The lateral slide system was set up to “push” the superstructure with a series of driven pile and high strength bar that passed through the backwalls. Guided by rollers bearing on a steel channel and controlled by a jack on each abutment backwall, it utilized pancake jacks to raise and lower the bridge into place. In

addition to an 8” concrete deck, Ultra High-Performance - Concrete was used to complete the integral abutment connection. An amazing feat of ingenuity and workmanship by all involved!

SUSTAINABLE PRACTICES CATEGORY

Red Rock Hydroelectric Project, Knoxville

Ready Mixed Concrete Producer: Manatt’s, Inc., Pella

Owner: Missouri River Energy Services, Sioux Falls

General Contractor/Concrete Subcontractor: Ames Construction, West Valley City, UT

Architect/Engineer: Stantec, Chicago, IL

A project that was six years in the making starting in 2014, the Red Rock Hydroelectric Dam Project will add a reliable, renewable energy source for up to 18,000 homes and last for up to 100 years. This concrete project had some challenges ranging from lightweight, underwater mixes, to extreme sub-freezing temperatures, and multiple 24-hour long pours. Ames Construction partnered with the local Manatt’s Ready Mix plant in Pella to furnish a total of 118,000 cubic yards of concrete, delivering over 10,700 truckloads out to the dam. This massive structure is not only a grand site to behold, but it will also power homes with sustainable energy for many decades to come!

For project photos, please visit our website at concretestate.org or call our office at 515-965-4575

###

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

Join the ConcreteState network

