MONTANA CONTRACTORS ASSOC.
THE CONSTRUCTION ASSOCIATION

2023 MCA Excellence in Construction Awards



- *Concrete Excellence*
- *Highway Excellence*
- *Building Excellence*
- *Contractors in the Community*
- *Partnering Excellence*
- *MCA Lifetime Achievement*

January 24, 2024

BW Plus GranTree Inn
Bozeman, MT

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2023 Building Excellence Award - "Best Custom Residence"
GENERAL CONTRACTOR: DICK ANDERSON CONSTRUCTION
Rock Creek Flint View Residence



Totaling 5,700 square feet of finished space, rustic reclaimed wood timbers and siding blend with industrial steel finish elements to create an incredible home. Steel finishes were incorporated in almost every room and in numerous locations around the interior and exterior of this home. The reclaimed Trestlewood siding and timber material was a unique material to work with as it is sourced from the historic Lucin Cutoff Railroad Trestle of the Great Salt Lake. Along with siding, this material was used for interior columns, beams, soffits, multiple accent walls inside of the house, and cabinet faces in a few locations. The team installed over 7000 lineal feet of reclaimed interior tongue and groove and soffit material. Most beams weren't exactly straight and were filled with old wood and metal railroad spikes. DAC went through countless saw blades cutting this material.

2023 Concrete Excellence Award - "INDUSTRIAL/COMMERCIAL $1-5M"
GENERAL CONTRACTOR: YOUDERIAN CONSTRUCTION, INC.
Grub Dam Reconstruction, Glasgow



Grub Dam reconstruction involved the replacement of failing outlet works and dam reconstruction. An inverted weir impact basin, 84" concrete bedded outlet pipe, and 144" RCP tower was installed to replace the failing ductile iron pipe. Extensive lime amended soil placement and rip rap stilling basin were also key components to the project. Aggregates did not meet specified requirements and needed to be mitigated with the use of a Lithium admixture. Three Coffer Dams had to be installed to protect work from runoff due to heavy rains and dewatering processes. Poor road conditions created safety concerns for material delivery. Steep saturated slopes and work areas made it difficult and unsafe for equipment to maneuver. On the first filling of the dam, abnormal flooding happened resulting in the emergency spillway to run and the impact basin running at full flow. Riprap protection protected the overflow from major scouring.

2023 MCAEF Award - "Contractors in the Community"
CONTRACTOR: TC GLASS
Centerville School, Sand Coulee



The Centerville School Addition project addresses the community's need for expanded educational facilities. TC Glass saw an opportunity to educate students beyond the classroom and leave a lasting impression on the community for years to come. The event allowed students to witness job site safety, understand trade diversity, and the construction community, as well as uncover future career path opportunities. The students were able to witness the glazing techniques required for the successful installation of the thermal aluminum windows. From measuring the rough openings, successful placement of the window system, anchorage, and sealant work, they were involved in the installation process from start to finish. From the framing crew, siding installation, and the glazing trade, they were able to see the process come full circle in each phase of the project.

2023 Concrete Excellence Award - "INDUSTRIAL/COMMERCIAL >$5M"
GENERAL CONTRACTOR: MARTEL CONSTRUCTION, INC.
Jet Aviation - Bozeman Hangar



The Jet Aviation Bozeman Hangar project is a new 40,000 square foot hangar located at the Bozeman Yellowstone International Airport. Personnel on the design side voiced concerns related to the Alkali Silica Reaction or "ASR" risk early enough for proper coordination to take place, and to ultimately mitigate the risk associated with this phenomena. Martel Construction enlisted aid from independent concrete experts to recommend actionable options that would successfully mitigate the risk of ASR. Ultimately, the consensus was reached to institute an interior slab on grade mix design that incorporated fly ash as a component known to mitigate ASR. The subsequent product was placed and finished with excellent quality and zero ASR characteristics. Usage of portable ground heaters and fan driven air heaters was implemented. Substantial completion was reached nearly 1 full month ahead of schedule.

2023 Highway Excellence Award - "Best Paving/Smoothness Project"
GENERAL CONTRACTOR: RIVERSIDE CONTRACTING
Dillon-Apex, Dillon



The Dillon-Apex project, located in Beaverhead County, required Cold Milling, Interlayer-Chip Seal, new plant mix overlay and a full-width seal and cover. The 11.2-mile project was on both the northbound and southbound lanes of I-15 from Dillon to the Apex interchange. Riverside elected to use the available cold millings to produce the Grade S Plant Mix with 25% recycled asphalt. The in-place plant mix utilized for the RAP material was placed by Riverside 20 years earlier and consisted of a fine-sided ¾" Grade S aggregate. In order to meet MDT's Hamberg Rut Test, the virgin aggregate had to be much courser, with the resulting blend being well below the restricted zone. There were only five bump grinds required in 44.8 lane miles of roadway. The incorporation of RAP into the project saved 990 tons of asphalt cement, and the diesel required to crush 18,660 tons of virgin aggregate.

2023 Building Excellence Award - "Best Specialty Contractor Project"
SPECIALTY CONTRACTOR: ENCORE ELECTRIC
Yellowstone Club Public Safety Building, Big Sky



Encore Electric provided all the electrical, turnkey power, lighting control, and fire alarm services for the 20,000 square-foot, three-story Yellowstone Club Public Safety Building within a rigorous 10-month schedule. The building is specifically designed to house all emergency services and their related corporate offices for the Yellowstone Club. The physical location of the job site presented daily challenges due to the mountainous setting. The team had to deal with weather-related issues, limited vehicle access, and space restrictions. The construction parcel was situated on a 30-degree slope between two roads, which made vehicle access difficult, and cranes could not be used. As a result, the team coordinated constant material deliveries and ensured trucks didn't stack up in the limited space or cause any security or traffic concerns for the surrounding community.

2023 Concrete Excellence Award - "Paving"
GENERAL CONTRACTOR: UNITED MATERIALS OF GREAT FALLS
Centralized Deicing Facility, Great Falls International Airport



The new Centralized Deicing Facility at the Great Falls International Airport is approximately 15,700 square yards and used approximately 7,300 cubic yards of concrete. The apron provides a central location for aircraft to be deiced and collection/containment of deicing chemicals, thus preventing chance of soil contamination. Features of the project also include storm drain improvements, new taxiway and apron lighting, and pavement markings. The concrete apron included 14 inch and 17.5 inch concrete pavement with doweled and compression sealed joints. The concrete pavement incorporated an 8" wide by 300' trench drain to allow the deicing liquid to be collected and flow into the storm drain system. The machine placed concrete paving took a total of 20 days over the course of 7 weeks. Each machine pour required approximately 370 cubic yards of concrete and took between five to six hours to complete.

2023 Building Excellence Award - "Best Commercial Project"
GENERAL CONTRACTOR: LANGLAS & ASSOCIATES
KOA Coprorate Headquarters, Billings



The new Corporate Headquarters for Kampgrounds of America (KOA) is 35,000 square feet in size. Billings' main irrigation ditch sits adjacent to the property and is higher in elevation than the finished floor of the basement. A drain tile system was installed around the perimeter of the foundation as well as significant waterproofing on the building's foundation. After the systems were successfully installed, Langlas reported no visible water in the basement of the building. During construction, KOA made the conscious decision to revamp the design of the second floor on one wing of the building. This change caused the flow of construction to halt then switch direction from the original flow pattern of the trades. This occurred during a critical time for the project as areas were beginning to start mechanical and electrical rough in. The change required heavy, mutual effort on the design and construction teams to redesign while consecutively continuing construction in order to minimize rework or keep from causing significant delays.

2023 Highway Excellence Award - "Best Reconstruction of an Urban/City Project"
GENERAL CONTRACTOR: CK MAY EXCAVATING, INC.
N. 7th Avenue & Griffin Drive – Bozeman



This project created unique constraints with multiple businesses adjacent to the intersection, as well as two oil refineries which required a sequence of operation, and an intersection that averages 47,000 daily vehicles. The main storm sewer trunkline was upwards of 12 feet deep, requiring over 1,100 cubic yards of concrete controlled low strength material to connect to the City of Bozeman storm system. The project was also adjacent to a century-old cemetery which required an archaeologist and a retaining wall. The intersection required an 8" Portland Cement Concrete Pavement (PCCP) section instead of the typical bituminous asphalt section. Subcontractor Treasure States Concrete suggested using transverse tining to improve safety, and now MDT will look at this spec and consider using that on future projects.

2023 Building Excellence Award - "Best Industrial Project"
GENERAL CONTRACTOR: DICK ANDERSON CONSTRUCTION
Coca-Cola High Country, Billings



This Coca-Cola bottling facility is 160,000 square feet precast concrete. It includes 80,000 square feet for bottling and manufacturing, 60,000 square feet for product storage with 12 loading dock doors, and 20,000 square feet with drive-through bays for order preparation. The office component is a two-story precast concrete. The campus also includes a 7,600 SF precast concrete fleet maintenance shop. The fleet shop contains one office, designated oil, tools, & parts storage rooms, two vehicle maintenance bays, and a full-length wash bay. The campus contains over 5 acres of hardscaping, which requires a significant stormwater system with three retention ponds. The project included the installation of 1,500 engineered aggregate piers, 35-foot-tall precast walls, 5,500 linear feet of pipe and supports an assortment of floor drains, trench drains, and clean-outs for three production lines for both plastic bottles and aluminum cans.

2023 Concrete Excellence Award - "Agricultural"
GENERAL CONTRACTOR: YOUDERIAN CONSTRUCTION, INC.
JBC Farms Roller Compacted Concrete, Hobson



Youderian Construction and Casino Creek Concrete were contracted to produce 9,000cy of roller compacted concrete to construct a sileage pad and shop pad for JBC Farms, in Central Montana. Phase one of the project, 5,800cy, was required to be ready for client use by late June. Starting May 1st, subgrade was graded and compacted. On June 1st, Casino Creek rolled the first cy of RCC out of the plant and to YCI's installation crew. Youderian placed 9,000cy of concrete without driving a single concrete pin, no forming, no screeding and no troweling. 100% of the manual labor associated with placing concrete was removed. Most concrete loads are done by producing one batch for every truck load of concrete. In this project they utilized a continuous feed of rock, sand, cement and water to produce 150 cy/hr. No mixer trucks were used in the main production runs.

2023 Building Excellence Award - "Best Institutional Project"
GENERAL CONTRACTOR: SWANK ENTERPRISES
Paul D. Wachholz College Center, Kalsipell



The Paul D. Wachholz College Center is a 67,000 square foot project combining two distinct functions into one unique building on the Flathead Valley Community College campus. The College Center features McClaren Hall, a 1,000+ seat performing arts center with state-of-the-art acoustics and the flexibility to accommodate concerts, lectures, dance performances, and musical theater productions. Additionally, the Wachholz College Center houses the Stinson Family Event Center, a dual-court gymnasium that doubles as an event venue and fitness center. The 6,000 square feet of maple veneer used to finish the radiused 5-layer gypsum walls was installed by Swank crews to create the elegant final aesthetics commensurate with the premium acoustics of the facility. Swank Enterprise's skilled crew self performed much of the project, including the installation of all the 20,000-square-foot celling wood finishes in the McClaren performance hall and lobby.

2023 Concrete Excellence Award - "Technical Merit" & "Water/Sewer/Utilities"
GENERAL CONTRACTOR: NW CONSTRUCTION, INC.
Yellowtail Dam Spillway, Fort Smith



This project included a tunnel concrete repair, apron protection, and a rockfall protection system. High volume water releases had begun to damage concrete at the crown of the spillway tunnel, so overhead demolition and shotcrete placement were used to repair the damage. During high volume water releases, the bank around the spillway was subject to erosion, so a concrete apron was constructed to capture surging water directing it back to the afterbay without soil erosion, complete with a dissipation block and rip rap armoring. And finally, a cliff face above the spillway generated rock debris falling upon the stilling basin throughout the year. A self-cleaning mesh rockfall protection system was designed and installed to protect the structure and workers below. Contractors were required to work from a two-rope system for redundant protection.

2023 Building Excellence Award - "Excellence in Craftsmanship"
GENERAL CONTRACTOR: SWANK ENTERPRISES
Montana Museum of Art & Culture, Missoula



Brick design features include a half-moon complex brick staggering on the east-facing wall, an impressive square brick staggering on the west-facing wall, and radiused brick sections at the staircase and above the roof line. Over 1,000 man hours were spent laying out the intricate brickwork features, which took over 20,000 man hours to complete. Aggressive structural steel cantilevers carry the second level and roof. Cruciform columns to support the second-floor cantilever weighed between 6 and 9 tons. The 17,500-pound column extended from the basement level below grade, through the building, and above the roofline, 49 feet tall. These four columns took a combined 310 hours to fabricate. Through extensive tracking of waste management and consistent LEED practices and documentation, the project is tracking LEED Gold, exceeding the originally designed projection for LEED Silver. Through value engineering skills and a pragmatic point of view, the Swank team identified savings of more than $800,000.

2023 Concrete Excellence Award - "Bridges" & "Judges' Choice"
GENERAL CONTRACTOR: SLETTEN CONSTRUCTION CO.
I-90 Yellowstone River, Billings



This project involved over 55 subcontractors and suppliers, while maintaining proper traffic control with over 30,000 daily vehicles. 21 drilled shafts had to be installed prior to high water each season, then the rest of the structures had to be completed early enough to allow for the highway to be built prior to cold weather conditions. A unique aspect of the project is the 54" cast-in-place barrier through the length of the new roadway. This barrier required concrete to be batched at a very low slump so it could be placed and formed without falling over shortly after placement. The project design included two 6-span bridge structures over the Yellowstone River, a railroad arch, new three lane roadways, and barrier rail between the roadways and on each side of both bridges. Each bridge over the river is almost 1,000 feet long. Over 7,800 combined cubic yards of various types of concrete were placed in the construction of both structures. almost three miles of cast in place concrete barrier rail present on the project.

2023 Highway Excellence Award - "Best Reconstruction, Rural Project"
GENERAL CONTRACTOR: WICKENS CONSTRUCTION, INC.
JCT 462 - East & West, Jordan



The 9.4-mile segment of highway 200 had numerous sharp curves, limited passing opportunities, non-existent shoulders, and steep roadside slopes. This work included nearly 1.5 million cubic yards of grading along with 220,000 tons of gravel and 41,000 tons of plant mix surfacing that was trucked from nearly 80 miles away due to a lack of suitable aggregate in the area. Additionally, the project included the installation of 7,200 linear feet of culverts, the replacement of 5 existing bridges with one 414 foot 3-span bridge and 4 large box culverts, the heaviest weighing 65,000 lbs. per section. Wickens salvaged all the existing pavement and base gravel and reused it for traffic gravel. This equated to approximately 100,000 tons of recycled product. The severe nature of the terrain made it difficult to perform grading and culvert work along the project. However, Wickens utilized open-cut operations on all of the culverts on the project and saved nearly $1 million on project costs and kept the project ahead of schedule.

2023 Building Excellence Award - "Best Historic Restoration"
GENERAL CONTRACTOR: R&R TAYLOR CONSTRUCTION, INC.
Lake Lodge Cabin Renovations, Yellowstone National Park



Lake Village in Yellowstone Park sits at 8,000 ft in elevation and is only accessible seasonally. The site is remote, with limited housing and facilities and no nearby material suppliers. Much time was spent exploring and analyzing the existing infrastructure to establish accuracy because of poor record keeping over a long history of the area. R&R Taylor replaced all power and water under the site due to compromised infrastructure and provided the owners with accurate as-builts to update the records. The schedule was accelerated by pre-casting the piers. Lifting the cabins was also a challenge, as the cabins had to be stabilized with cross bracing, and the roofs tied on so the cabins wouldn't collapse or rip apart. Originally the cabins were two separate cabins, and were adjoined together with a shared bathroom, but they were lifted as separate cabins. R&R Taylor was able to retain historic fixtures, and matched materials as closely.

2023 MCA/MDT Partnering Excellence, Level 2
GENERAL CONTRACTOR: KNIFE RIVER
Design Build Kalispell ADA Upgrades, Kalispell; MDT District 1 - Missoula



This was a Design Build project with more than 140 curb ramps. There were zero accidents, and the majority of work was performed at night. Radiant heat tubing was discovered at the Flathead County Courthouse; Contractors drained 150 gallons of Glycol into 5-gallon buckets with no spills, and the system returned to operation. Some ADA corners were not feasible for compliance; through collaboration some designs were altered. A storm drain was discovered that would have extended the project since materials were not available. Knife River sourced an alternative structure and modified the plan. Knife River provided flexibility in pricing by using unit pricing for traffic control, and time and materials on unknown items. The project proceeded on time and under budget, allowing extra ADA work to be added in Columbia Falls and West Glacier.

2023 MCA/MDT Partnering Excellence, Level 1
GENERAL CONTRACTOR: SLETTEN CONSTRUCTION, CO.
I-90 Yellowstone River Bridge, Billings; MDT District 5 - Billings



Among the characteristics that helped this project win an MCA Excellence Award, partnering aspects of the project included: At $72 million, this was the largest project in MDT history. There were two facilitated partnering meetings, including 12 subcontractors. Value Engineering proposals from the Contractor saved taxpayers $4 million. This was a 3-year project, and no dispute reached a decision above level 2. MDT's team worked daily with all members of the project team for timely materials testing, item documentation and quantity tracking. The project was allowed to start early. Three subcontractors asked for more or earlier work, so Riverside Contracting made changes in their schedule to allow that.

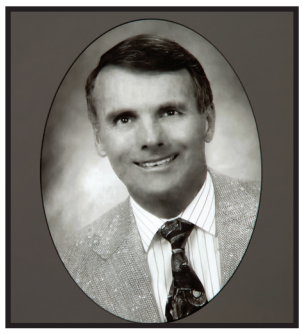
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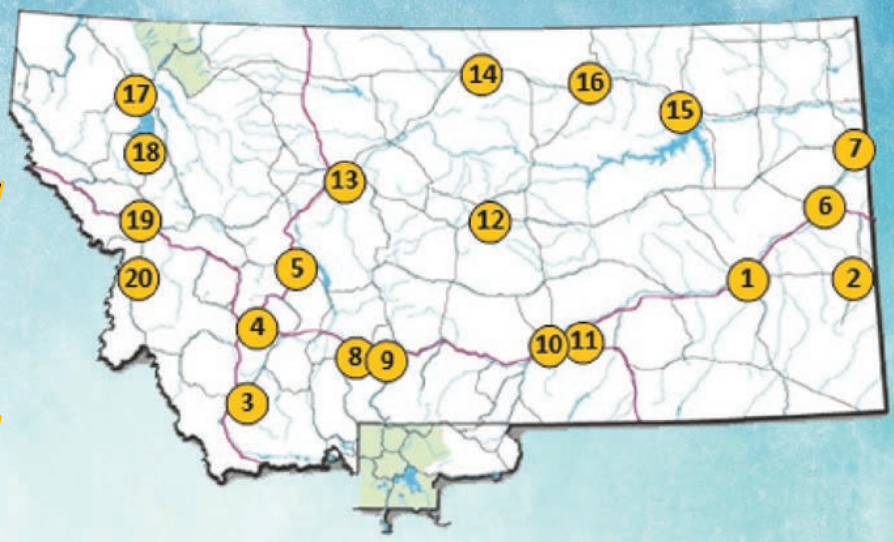
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7:30 am – Meal is served
8:00 am – Excavator Training Starts

Evening Meetings Schedule:
5:30 pm – Meal is served
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For a full schedule of dates, times and location, please visit:
https://www.montana811.org/calendar/2024-excavator-training/

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