

**PROPOSAL RESPONSE COVER SHEET**

**PUEBLO CONSERVANCY DISTRICT**

**REQUEST FOR QUALIFICATIONS**

**Project No. 12-008-05**

**Arkansas River Levee Improvements  
Phase 3**

**Construction Services**

The undersigned, having carefully read and considered the Request for Qualifications (RFQ) for the above referenced Project, does hereby offer to perform such services on behalf of the Pueblo Conservancy District in the manner described and subject to the terms and conditions set forth in the attached RFQ.

In submitting this Statement of Qualifications (SOQ), it is understood that the Pueblo Conservancy District reserves the right to reject any and all SOQs, and to waive any informalities in SOQs as submitted. Firms submitting SOQs acknowledge that they are qualified in this area of work and have experienced personnel able to provide the required construction services. The District may request additional information substantiating the indicated requirements. Failure to provide this information may result in a prospective Contractor's SOQ being declared non-responsive. It is the prospective Contractor's responsibility to verify if any addenda were issued prior to submission of their proposal/SOQ.

Contractor acknowledges and accepts that all components of and responses to this RFQ will be included and become a part of the final Contract by reference.

The undersigned further states that this Statement of Qualifications is made in good faith and is not founded on, or in consequence of, any collusion, agreement, or understanding between themselves or any other interested party.

**(All contact information must be filled out and form submitted with SOQ)**

PROPOSER (full lawful name of firm):

ASI Constructors, Inc.

Name of Person with Authority to Bind Proposer: Randy Brown

BY (Title of Person with Authority to Bind Proposer): CFO

SIGNATURE (of Person with Authority to Bind Proposer): 

ADDRESS (Office & PO Box): 1850 E. Platteville Boulevard, Pueblo West, CO 81007

OFFICE PHONE (719) 647-2821 CELL PHONE (719) 248-2647\* FAX (719) 647-2890

EMAIL rking@asiconstructors.com WEBSITE www.asiconstructors.com



October 4, 2016

**VIA HAND DELIVERY**

Pueblo Conservancy District  
C/O Northstar Engineering and Surveying, Inc.  
Attn: Mr. Kim Koch  
111 East 5<sup>th</sup> Street  
Pueblo, CO 81003

RE: Arkansas River Levee Improvements – Phase 3

Mr. Koch:

Thank you for the opportunity to submit the attached Proposal with regard to the Arkansas River Levee Improvements – Phase 3 Project. We trust that this will provide the Pueblo Conservancy District and NorthStar Engineering and Surveying with the information needed to achieve selection for your project. ASI Constructors, Inc. (ASI) believes we can provide you with a quality project that is constructed safely, on time, and on budget.

Over the last 30 years, ASI has completed numerous projects similar to the Arkansas River Levee Improvements – Phase 3 Project in the United States. Additionally, ASI was pleased to complete the Arkansas Levee Improvements Phase 1 project on-time and on budget for the Pueblo Conservancy District. We are a self-performing heavy-civil contractor specializing in the construction and rehabilitation of dams, spillways, levees, and other water resource projects. Due to the similarity of this project to many other previous successful ASI projects, we are excited about this opportunity and believe it can be a success for all parties.

Notably, ASI has all of the credentials that are “highly preferred” by the Pueblo Conservancy District to complete this challenging project. These include:

- 10 years’ experience working on heavy civil industrial and utility grade projects of similar scope and size as this Project, including projects whose primary function is control and conveyance of raw water and whose components include structural concrete, mass concrete, and earthen embankment construction.
- Experience working in an active river environment where careful care for and diversion of water, including design and construction of cofferdams, is required for protection of the working area.
- Documented experiences with design/build and early contractor involvement projects involving all of the elements referenced above.
- Experience in multiple methods of subgrade stabilization, dewatering, cofferdams, erosion control, and slope retention systems.

ASI provides our clients with innovative and cost-effective solutions to their complex projects. Sophisticated engineering and construction technologies, an honest commitment to fair business dealings along with a partnering approach to our work, and a genuine culture of safety and quality management are the foundations that we build on in all of our projects. Our clients and the quality of our work are a top priority. Preserving an impeccable reputation is the key to providing repeat service to those clients.



ASI is available to discuss engineering and construction concepts that have the potential to lower the overall costs of the project and we would appreciate the opportunity to discuss these concepts with you prior to your selection of a contractor.

Please do not hesitate to contact me if you have any questions or comments regarding this correspondence.

Regards,

ASI Constructors, Inc.

A handwritten signature in black ink that reads "Richard W. King". The signature is written in a cursive style with a large, prominent "R" and "K".

Richard W. King  
Estimating Manager



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## I. PAST PERFORMANCE, QUALIFICATIONS, AND EXPERIENCES OF THE PROJECT TEAM



## **I. PAST PERFORMANCE, QUALIFICATIONS, AND EXPERIENCES OF PROJECT TEAM**

1. Firm's name, address, phone and contact person. Basic firm information, including the year the prime contracting firm was formed.

**RESPONSE:**

ASI Constructors, Inc.  
1850 E. Platteville Boulevard  
Pueblo West, CO 81007  
Phone: (719) 647-2821  
Fax: (719) 647-2890  
Contact Person: Richard W. King, Estimating Manager  
Email: [rking@asiconstructors.com](mailto:rking@asiconstructors.com)

ASI, and its predecessor entities, has been operating in the heavy-civil construction market for over 30 years. ASI Constructors, Inc. is a Colorado corporation formed December 9, 2005, headquartered in Pueblo West, Colorado and operates throughout the United States and internationally.

2. Project Team and Experience: Identify the prime contractor, proposed sub-contractors (subcontracts valued at \$40,000 or more must be listed) if any, and task responsibility. Overall description and history of the firms.

**RESPONSE:** ASI Constructors, Inc. is a self-performing heavy-civil engineering contractor specializing in the construction and rehabilitation of dams (roller compacted concrete (RCC), earthfill, and conventional concrete), spillways, levees and other major water resource projects. We also offer many additional specialized services through our Marine Group including inspection, on-water/underwater construction, and maintenance.

At this time ASI plans to self-perform all major components of this project with our own forces. We may opt to hire a subcontractor to supply and tie the reinforcing steel, and should this occur, minor activity would occur under the direct supervision and coordination of ASI.



## **INTRODUCTION TO ASI**

ASI Constructors, Inc. is a self-performing heavy-civil engineering contractor specializing in the construction and rehabilitation of dams, spillways, and other major water resource projects.

Over the past 35-years ASI has constructed 145 new dam and dam modification projects, including 35 new dams and 110 dam modification and remediation projects completed. We are currently working on 12 new dam and dam modifications projects.

Some of the highlights of ASI's achievements in dam construction include:

- Completion of the largest RCC dam in United States, with approximately 3.25 million cubic yards of RCC and mass concrete (Taum Sauk Dam, 2010);
- Construction of Australia's two largest new dams since the 1960's, including the Cotter Dam Enlargement Project, which is the largest RCC dam in Australia (Cotter Dam, 2013 and Wyaralong Dam, 2011);
- Four-time recipient of the United States Society on Dams Award of Excellence in the Constructed Project (2016; 2013, 2010, 2007); the highest award a dam project can receive in the US;
- Construction of the first high-hazard dam in the United States through design-build contracting with a public agency (2005);
- ASI has worked on dam projects in 27 states within the US and on six major international dam projects, spanning 6 of the world's continents.

## **HISTORY**

ASI General Contractors, Inc was founded in 1978 in Buena Vista, Colorado. The company was owned and managed by two partners and operated as a regional heavy-civil contractor, with a work portfolio that varied from small dams, tunnels, and industrial construction with annual revenues typically at \$10 million.

In 1984 the company constructed Middle Fork Dam in Parachute, CO. This was the second Roller Compacted Concrete (RCC) dam built in the United States. Throughout the mid 1980's the company established itself as a leader in RCC dam construction. In 1987 the company was reorganized as ASI RCC, Inc. with ownership maintained by one of the original principals and several minority partners. The company continued to operate as a heavy-civil contractor in the Rocky Mountain region and also maintained a leading position in the continually growing RCC dam construction market. In 1997 the majority ownership of ASI RCC, Inc. was purchased by Patel Engineering, Ltd. and at that time two long-time shareholders assumed management responsibility for all company operations. Between 1997 and 2000 annual revenues were increased from \$20 million to \$50 million as the company expanded operations to both the Southeast and Pacific Northwest.

ASI Constructors, Inc. was incorporated in December 2005 in Colorado. In this corporate transition key management individuals purchased the majority of assets from the previous shareholders and re-established ASI Constructors as a domestic corporation.

The company remains privately owned by managing principals and key employees with proven track records for successful project delivery through a professional and hands-on approach to business and field operations.

ASI's growth has continued as volume and new markets have increased. With growth, ASI has been able to offer additional specialized services through our Marine Group including inspection, on-water/underwater construction, and maintenance. In the last ten years, ASI has also diversified its market of operations from the United States to the international dam and water resource market.

ASI is headquartered in Pueblo West, Colorado and operates throughout the United States and internationally.



## II. RELEVANT PROJECTS



## **II. RELEVANT PROJECTS**

ASI submits detailed information for the following projects that are relevant to the construction of the Arkansas River Levees Phase 3 Project. Exhibits for these projects include project references that demonstrate ASI's experience in working with local railroads, utility companies, local governments, and the U.S. Army Corp of Engineers. Where appropriate, project specific challenges are noted along details on how ASI utilized conflict resolution with the Owner and Engineer to solve project challenges.

Project details for these projects follow:

- Arkansas River Levee Improvements Phase 1
- Buckeye Lake Dam Improvements Phase I Interim Risk Reduction Measures
- Lockport Pool Major Rehabilitation, Stage 1C, Forebay Wall Project, Phase I
- Upper Dam
- Duck River Reservoir Phase II Dam and Raw Water Intake Project
- Northfield Dam Modifications
- Beaver Park Dam Rehabilitation Phase II
- Southern Delivery System Pueblo Dam Connection Project
- Lower Occoquan Dam Rehabilitation
- T. Nelson Elliott Dam Safety Modifications
- Nesbitt Dam
- San Juan Chama DWP Diversion Dam



## ARKANSAS RIVER LEVEE IMPROVEMENTS - PHASE 1, PUEBLO, CO

**Reference:** Northstar Engineering and Surveying, Kim Kock, Project Engineer, (719) 544-6823.

The Arkansas Levee project involved the remediation / reconstruction of approximately 2,500 linear feet of the existing Arkansas River Levee from the 11th Street Bridge to the southeast. The current levee consisted of an existing earthen embankment approximately 40 feet tall which was faced with reinforced concrete approximately 10 inches thick.



The Phase One project included lowering of the existing embankment by approximately 12 feet and removing and replacing all reinforced concrete facing and foundations, complete with all incidentals of construction over a length of approximately 2,500 lineal feet. The work included repairing and/or replacing the plinth (the footing at the toe of the levee); replacing all of the concrete panels; repairing and/or replacing the small parapet wall at the crest; fixing portions of the embankment underlying the panels; and maintaining (not damaging) the existing step pools. ASI maintained close coordination with local railroads in effort to complete Phase 1 of the Arkansas River Levee Improvement Project.

### Success Metrics:

- (a) Original Final Completion Date: March 15, 2015; Actual Final Completion Date: April 15, 2015. Despite a delayed start due to permitting issues, ASI completed the project ahead of schedule for working days.
- (b) Production rates of key project features, including earthworks excavation and placement and concrete batching and placement, were achieved and maintained within the schedule requirements of the project. When required, additional resources were committed to the project in order to maintain project production rates and schedule requirements.
- (c) Original Contract: \$3,603,740/Final Contract: \$3,436,220. ASI was able to work with the Owner and Engineer to keep the project **under budget** despite differing site conditions.
- (d) The project was completed safely.
- (e) No violations of applicable state or federal laws occurred on this project.
- (f) Liquidated damage claims (if any): N/A



## BUCKEYE LAKE DAM IMPROVEMENTS - PHASE I INTERIM RISK REDUCTION MEASURES, BUCKEYE LAKE VILLAGE, OH

**Reference:** Ohio Department of Natural Resources, James Hilovsky, P.E., (614) 265-6967, [James.Hilovsky@dnr.state.oh.us](mailto:James.Hilovsky@dnr.state.oh.us)

The Buckeye Lake Dam is comprised of a 4.1-mile-long earthen embankment which impounds a 2,800 acre reservoir located near Buckeye Lake Village, Ohio. In the Spring of 2015, a Corps of Engineers study determined that the dam impounding Buckeye Lake (a Class I high-hazard structure) was at an imminent risk of failure. ASI was selected as the Construction Manager at Risk (CMAR) contractor in the Fall of 2015 to complete the fast-track repairs to the structure no later than June 1, 2016, or incur \$10,000 per day liquidated damages. The Phase I Interim Reduction Measures included the placement of 380,000 CY of earthfill material to construct a 30-foot-wide stability berm in the lake and adjacent to the existing dam face. An 800,000 SF, 43-foot-deep soil mix cutoff wall was installed into the stability berm. Crews worked daily in 2, 10 hour shifts to complete the work of the Interim Reduction Repairs at Buckeye Lake on behalf of ODNR and the

homeowners and business owners of Buckeye Lake. ASI has been selected to continue as the Phase 2 CMAR for Buckeye Lake and will be initiating this work in early 2017.

In addition to serving as the CMAR, ASI also self-performed the following work scopes:

- **Berm Installation and Dock Removal** - ASI installed 230,000 CY of embankment berm material from Liebs Island to the mid-point of the 4.1-mile embankment dam. ASI removed and disposed of 30 boat docks and removed and stored 80 boat docks. 6,700 CY of rip rap was placed as shoreline protection.
- **Erosion Control BMP's** ASI installed 20,000 LF of turbidity barrier and related erosion control measures.



### Success Metrics:

- (a) Original Final Completion Date: June 1, 2016; Actual Final Completion Date: June 1, 2016.
- (b) Production rates of key project features, including earthworks excavation and placement and concrete batching and placement, were achieved and maintained within the schedule requirements of the project. When required, additional resources were committed to the project in order to maintain project production rates and schedule requirements. Crews worked 2, 10 hours shifts per day to achieve final completion by June 1.
- (c) Original Contract: \$35,000,000/Final Contract: \$35,500,000.
- (d) The project was completed with no lost time incidents or serious injuries.
- (e) No violations of applicable state or federal laws occurred on this project.
- (f) Liquidated damage claims (if any): N/A

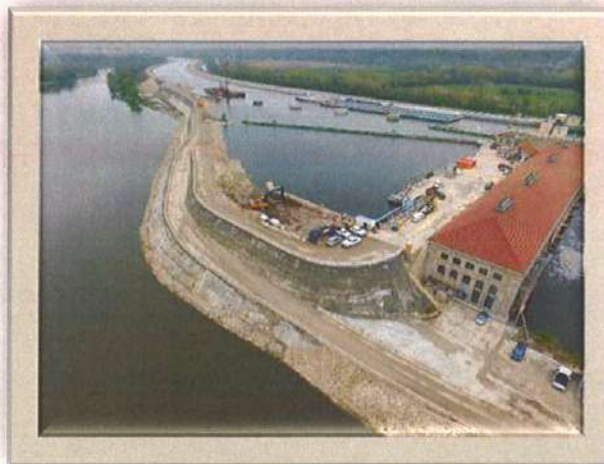


## LOCKPORT POOL MAJOR REHABILITATION, STAGE 1C, FOREBAY WALL PROJECT, PHASE I, LOCKPORT, IL

**Reference:** US Army Corps of Engineers, Mark Pratt, (309) 794-5474.

The work for the Lockport Pool Major Rehabilitation, Stage 1C, Forebay Wall Project, Phase I – located in Lockport, Will County, Illinois – involved the installation of a new, roller compacted concrete (RCC) embankment to help stabilize the existing lock facilities. The existing earthen embankment was noted to have seepage and stability issues and concerns and so a new RCC structure was required to assure the lock facilities remained safe and in operation. This work included:

- Clearing and grubbing of trees and vegetation
- Installation of new temporary bypass conduit
- Site demolition of existing turbines and stone retaining walls
- Temporary construction access road construction
- Removal, salvaging, processing and stockpiling of existing rockfill embankment for use as concrete aggregates
- Construction of secant pile retaining wall
- Excavation, processing and stockpiling of existing bedrock for use as concrete aggregates
- Batching, mixing, transportation and placement of RCC
- Installation of a seepage control drainage system with perforated and solid PVC pipe
- Placement of conventional concrete
- Construction of two secant pile cutoff walls for subsurface seepage control



Work also included construction of a new lower access road with processed rock fill, granular subbase, and RCC pavement; placement of granular subbase and ACC pavement; reinstallation of existing chain-link fencing; installation of new chain-link fencing; installation of new guardrail; removal of existing and installation of new electrical and associated items; removal of existing onsite structures including maintenance garage, concrete cinder tower, and light tower; and reinstallation of existing flagpole, turbine, and stone wall appurtenances; and disposal of excess material.

### SUCCESS METRICS

**Completion Date: December 2016**  
(2 months ahead of schedule)

**Original Contract Amount: \$32,793,555**

**Final Contract Amount: \$33,222,764** (increase due to owner-requested changes)

**Safety: No lost time or serious injuries**

**Legal Compliance: 100%**

ASI completed the Lockport project two months ahead of schedule, despite an unforeseen site access condition delaying the project start by six months. The bridge load rating for the only access to the site was de-rated, and ASI was required to build an alternate low-water crossing to gain project access. ASI crews accelerated construction to complete weather critical activities on time.



## UPPER DAM, RANGELEY, ME

**Reference:** Brookfield Renewable Energy Group, Peter Brockett, Project Engineer, (603) 752-2353, [peter.brockett@brookfieldrenewable.com](mailto:peter.brockett@brookfieldrenewable.com).



The Upper Dam is located at the headwaters of the Androscoggin River watershed in Western Maine near the New Hampshire border. Upper Dam is part of an extensive water storage system to regulate flows of the Androscoggin River for downstream hydroelectric power generation, flood control, and other industrial uses. The Upper Dam was constructed in the mid- 1850s to raise the pool elevation of the natural lake and increase the storage of Lake Mooselookmeguntic for the purpose of controlling flows for log driving. The Upper Dam was comprised of a stone-filled, steel-reinforced, concrete crib and timber-gated spillway and earthen embankments to the north and south of the spillway. The spillway was approximately 200 feet long and 25 feet tall. The spillway contained a total of 17 gates which are used to regulate flows and a sheetpile cutoff wall to control seepage. The project is a turnkey remediation and replacement of Upper Dam. The work at Upper Dam involves the complete renewal of the spillway structure, the remediation of embankments and the design and the allowance for future installation of a minimum flow turbine generator. The improvements are part of FERC Part 12 modifications and are being driven primarily by the need to safely pass flows under Probable Maximum Flood conditions.

Production rates of key project features, including earthworks excavation and placement and concrete batching and placement, were achieved and maintained within the schedule requirements of the project. When required, additional resources were committed to the project in order to maintain project production rates and schedule requirements.

### SUCCESS METRICS

Original Completion Date: November 2016  
 Final Completion Date: November 2016  
 Original Contract Amount: \$16,100,000  
 Final Contract Amount: \$18,602,156  
 Safety: Zero Incidents  
 Legal Compliance: 100%



## DUCK RIVER RESERVOIR PHASE II DAM AND RAW WATER INTAKE PROJECT, CULLMAN, AL

**Reference:** City of Cullman, Mike Greer, (256) 739-1891, [daleg@cullmaneda.org](mailto:daleg@cullmaneda.org)

The Duck River Reservoir Project, located in Cullman, AL will provide much needed municipal and industrial water storage for the City for the next 75 years. ASI's work consisted of construction of a new composite dam, with a roller compacted concrete spillway and a rockfill main embankment and abutments. Site work consisted of common and rock excavation in the dam footprint and the development of a quarry for rockfill and concrete aggregates. Foundation preparation for the dam included dental excavation, foundation cleaning and mapping, placing dental and leveling concrete, and drilling and pressure grouting of the rock foundation. Two cofferdams were constructed to divert the



### SUCCESS METRICS

*Original Completion Date:*  
August 2016

*Final Completion Date:*  
August 2016

*Original Contract Amount:*  
\$51,795,292

*Final Contract Amount:*  
TBD

*Safety Record:*  
No lost time or serious injuries.

*Legal Compliance:* 100%  
*Liquidated Damages:* \$0

PRODUCTION RATES OF KEY PROJECT FEATURES, INCLUDING EARTHWORKS EXCAVATION AND PLACEMENT AND RCC/CONCRETE BATCHING AND PLACEMENT, WERE ACHIEVED AND MAINTAINED WITHIN THE SCHEDULE REQUIREMENTS OF THE PROJECT. WHEN REQUIRED, ADDITIONAL RESOURCES WERE COMMITTED TO THE PROJECT IN ORDER TO MAINTAIN PROJECT PRODUCTION RATES AND SCHEDULE REQUIREMENTS.

Duck River through a 10-foot diameter reinforced concrete diversion pipe. The dam consists of a roller compacted concrete (RCC) spillway with an access gallery, a 110-foot high embankments with a clay core and rock fill, and a conventional concrete stilling basin that measures approximately 100-feet long by 300-feet wide. The production of RCC was accomplished by mining rock from an onsite quarry, crushing the shot rock to produce aggregates, and the concrete was produced by an onsite batch plant. The earthen embankments are comprised primarily of clay, shot rock, and riprap, all of which were produced on site. The stilling basin was constructed with uplift pressure drains, chute blocks, and dentated sills. Water intake was achieved from five intake screens mounted on a 78-foot high intake tower constructed from conventional concrete. The intake tower foundation was anchored using pre-stressed anchors. Raw water intake is regulated by cast iron sluice gates. Two runs of 48-inch carbon steel pipe convey water, with one running to an outlet chamber located under the spillway and one extending towards the City of Cullman's water treatment center. Water flow is regulated using a valve system, highlighted by a 48-inch cone valve in the outlet chamber. Other items of interest include a precast control building, 190-foot boat ramp, geotechnical and process control instrument installation, application of shotcrete and rock bolt installation to stabilize rock slopes.



## NORTHFIELD DAM MODIFICATIONS, COLORADO SPRINGS, CO

**Reference:** Colorado Springs Utilities, Dave Mason, Sr., (719) 668-8068

The Northfield Dam is a 30-foot high embankment dam approximately 350 feet in length, with a storage volume of 245 acre-feet. The dam was constructed in 1890 and is located immediately downstream of Nichols Dam. The Colorado State Engineer's Office classified Northfield Dam as a small, significant hazard dam, which required upgrades to the dam's spillway, embankment and outlet works. The Northfield spillway was an uncontrolled overflow concrete structure at the right (south) abutment of the dam. The spillway crest was about 34 feet long located approximately 6 feet below the crest of the dam.

Major work items associated with the modifications to Northfield Dam included mobilization; diversion and dewatering; erosion and sediment control; stripping and stockpiling topsoil; developing borrow areas; abandoning existing piezometers; demolishing the WTP, associated structures and utilities located near the downstream toe of the Northfield Dam. Work also included removing various unused underground piping located on U.S. Forest Service land; abandoning sections of pipe that will remain within the existing embankment by grouting; demolishing the existing spillway located on the Northfield Dam right abutment; constructing a new concrete spillway control structure, chute and stilling basin on the dam embankment near the left abutment; excavating along the dam down-stream toe to remove the existing non-functional toe drain; and conducting a video inspection to determine the condition of the existing 24 inch pipe with a 20 inch steel pipe grouted in place. Work also included constructing a new toe drain with cleanouts connected to a new blanket drain placed against the existing dam downstream toe; constructing a new concrete toe

**Production rates:** Production rates of key project features, including earthworks excavation and placement and concrete batching and placement, were achieved and maintained within the schedule requirements of the project. When required, additional resources were committed to the project in order to maintain project production rates and schedule requirements.



drain discharge structure; constructing a new 24 inch diameter welded steel conduit encased in concrete extending through the raised dam embankment and up to a new valve vault installed downstream of the raised embankment.

Downstream from the vault a new section of 24 inch pipe was installed to connect to the existing downstream pipe. Work included constructing a new valve vault including a new 18 inch flow meter and 24 inch knife gate for regulating reservoir releases; and constructing a new 12 inch bypass pipe with a throttling knife gate bifurcating from the 24 inch pipe upstream of the flow meter within the vault. The 12 inch pipe was discharge to the new spillway. Work included installing new power and electrical appurtenances in the valve vault; placing fill to raise the downstream crest of Northfield Dam about 8 feet, and to provide new roads and grading downstream from the dam toe. Lastly work included installing new instrumentation including piezometers, dam movement points and station markers, bench markers, structural movement points, and spillway staff gage; reclamation; and demobilization.

### SUCCESS METRICS

Original Completion Date: January 2015

Final Completion Date: January 2015

Original Contract Amount: \$3,404,247

Final Contract Amount: \$4,710,234\*

\*Owner opted to use off-site materials due to on-site material unsuitability.

Safety: Zero Incidents

Legal Compliance: 100%

Liquidated Damages: \$0




## BEAVER PARK DAM REHABILITATION PHASE II, SOUTH PARK, CO

**Reference:** Colorado Parks & Wildlife Department, John Clark, (303) 291-7395, [john.clark@state.co.us](mailto:john.clark@state.co.us)

The Beaver Park Dam is over 100 years old and has a wide range of seepage problems during its lifetime. Because of these problems a major rehabilitation of the dam was undertaken to improve the dam's safety and performance and ensure its operation for decades to come. This project was honored with the 2016 Association of State Dam Safety Officials (ASDSO) National Rehabilitation Project of the Year – the highest honor a dam rehabilitation project can receive.

ASI's work on the project included installing rock mitigation measures on the existing slopes to protect workers during the construction of the project; lowering and managing the reservoir pool to required elevations and maintaining the downstream flow requirements; demolition of the existing intake structure and outlet works; excavation and removal of buried timber cribbing in the left abutment; excavation and installation of sand and gravel filter drains near the left abutment; installation of a soil nail wall as temporary excavation support; regrading of the downstream dam face and crest; construction of a new intake structure; relining of the existing outlet conduit; construction of a new outlet structure complete with new gates, valves, and weirs; installation of a new groundwater monitoring system; and construction of a new SCADA system and integration with the existing system.

In addition to the planned work scope of the project, after demolition and excavation, numerous others corrective actions were authorized which pushed the completion date of the project beyond the seasonal constraints. ASI prioritized the work tasks and completed the critical items that would permit the Owner to store water before winter. This spring of 2015, we remobilized to this high altitude location to complete the remaining downstream outlet structure and filter blanket. The Owner was very satisfied to be able to include additional corrective measures to their dam and still begin storing water according to their original plan.



2016 ASDSO National  
Rehabilitation Project of the  
Year

### **SUCCESS METRICS:**

Original Completion Date: August 2015  
Final Completion Date: August 2015  
Original Contract Amount: \$8,939,497.50  
Final Contract Amount: \$10,223,000\*  
\*Expansion of scope of work  
Safety: Zero Incidents  
Legal Compliance: 100%  
Liquidated Damages: \$0





## SOUTHERN DELIVERY SYSTEM PUEBLO DAM CONNECTION PROJECT, PUEBLO, CO

**Reference Contact:** Colorado Springs Utilities, Jed Chambers, Project Manager, (719) 668-7359.

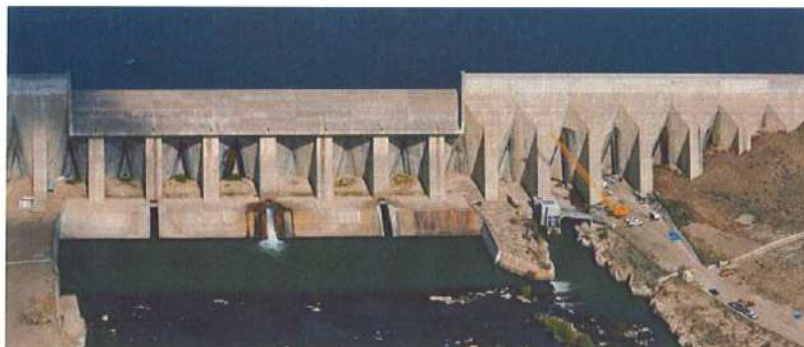


ENGINEERING NEWS RECORD  
2014 BEST PROJECT- MOUNTAIN STATES REGION



AMERICAN PUBLIC WORKS ASSOCIATION  
2013 PROJECT OF THE YEAR AWARD/STRUCTURES  
LARGE AWARD

The Pueblo Dam and Reservoir is located on the Arkansas River in Pueblo County about six miles upstream and west of the city of Pueblo. This regional water project will deliver water to Colorado Springs, Pueblo West, Fountain, and Security. It will provide these communities with a long-term, stable water supply for decades. Phase 1 of the SDS work included the connection to the North Outlet Works of the Pueblo Dam. The project included work inside the dam, pipeline, structural concrete, fixed cone valve facility, mussel control system, electrical, instrumentation and controls. The work also included installation of the upstream bulkhead, forming, and pouring the concrete thrust block and lining the channel with rip rap. We also completed construction of a cofferdam to divert the Arkansas River around our work area. Other work included excavation of earthen materials out of the existing river channel, 55 feet down to the rock bottom of the channel. ASI also built a mass concrete foundation in the river channel to support a structural concrete valve containing and fixed cone valve and a rotary cone valve control facility. This facility will regulate and control releases from the dam into the river and SDS pipeline. The existing dam outlet was lined with SS liner sections, which ASI connected to an existing gate flange in the tunnel. The annulus between the liner and tunnel were backfilled with concrete.



Production rates of key project features, including earthworks excavation and placement and concrete batching and placement, were achieved and maintained within the schedule requirements of the project. When required, additional resources were committed to the project in order to maintain project production rates and schedule requirements.

### SUCCESS METRICS:

ORIGINAL FINAL COMPLETION DATE: MAY 30, 2012      ACTUAL FINAL COMPLETION DATE: JULY 12, 2012\*

\*OWNER DIRECTED ADDITIONAL WORK SCOPE AND MODIFICATIONS TO INITIAL DESIGN.

ORIGINAL CONTRACT: \$5,625,000

FINAL CONTRACT: \$6,256,627\*

\*THE CONTRACT INCREASES WERE DUE TO OWNER-DIRECTED ADDITIONAL WORK SCOPE AND MODIFICATIONS TO INITIAL DESIGN.

SAFETY: ZERO INCIDENTS

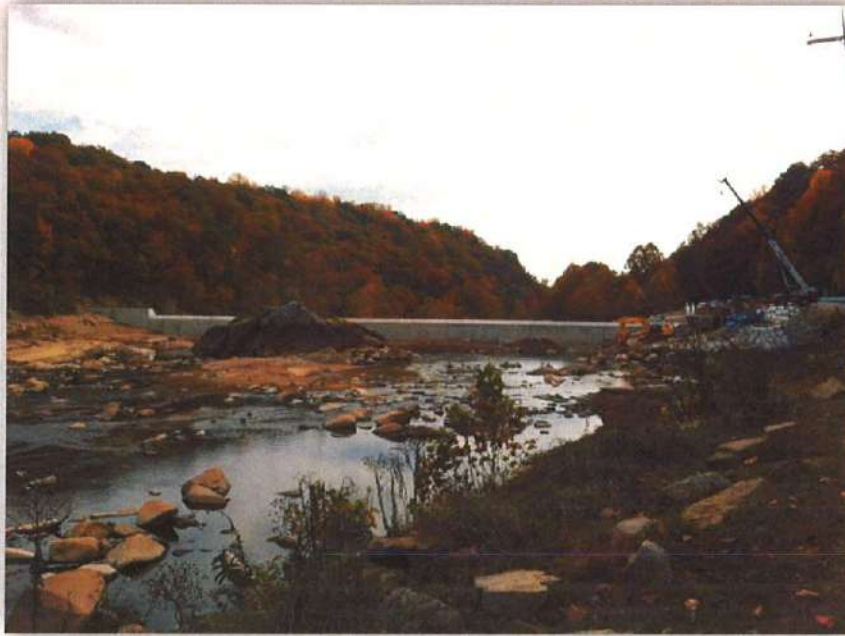
LEGAL COMPLIANCE: 100%

LIQUIDATED DAMAGES: \$0

## LOWER OCCOQUAN DAM REHABILITATION, OCCOQUAN, VA

**Reference:** Fairfax Water, Charles M. Murray, General Manager, (703) 289-6255.

The Lower Occoquan Dam is owned by Fairfax Water and in the past used as a water intake for the now decommissioned water treatment plant. As part of Fairfax Water surrendering their Federal Energy Regulatory Commission (FERC) license to generate hydropower and operate the dams, ASI Constructors completed dam upgrades for Fairfax Water as part of their license surrender process. Once the upgrades were completed, regulatory control was transferred from FERC to the Virginia Department of Conservation and Recreation (DCR).



The improvements included demolition and reconstruction of the downstream face, reconstruction of the dam crest, construction of a new cutoff wall on the upstream face of the dam, and the installation of new gates, stop logs, screens and miscellaneous metals at the inlet structure.

Production rates of key project features, including earthworks excavation and placement and concrete batching and

placement, were achieved and maintained within the schedule requirements of the project. When required, additional resources were committed to the project in order to maintain project production rates and schedule requirements.

**SAFETY: ZERO INCIDENTS**  
**LEGAL COMPLIANCE: 100%**  
**LIQUIDATED DAMAGES: \$0**

**Original Final Completion Date: November 1, 2012**  
**Actual Final Completion Date: October 30, 2012**  
**Original Contract: \$3,634,500**  
**Final Contract: \$3,698,476.\***  
**\*Changes in unit price scope items**



## T. NELSON ELLIOTT DAM SAFETY MODIFICATIONS, MANASSAS, VA

**Reference:** City of Manassas, VA, James M. Falls, Purchasing Manager, (703) 257-6368.

**SAFETY: ZERO INCIDENTS**

**LEGAL COMPLIANCE: 100%**

**LIQUIDATED DAMAGES: \$0**

The T. Nelson Elliott Dam is located in Prince William County, Virginia and is a composite dam that consists of both concrete and earthen sections. The dam is 1,306 feet long and 74 feet high from the dam crest to the stream. The dam was designed in 1968 by Hayes, Seay, Mattern & Mattern and is categorized as a Class I (high hazard) dam by the Virginia Department of Conservation and Recreation (DCR), which is the regulatory agency that has jurisdiction over the dam.

This purpose of the T. Nelson Elliott Dam Improvements Project was to improve Elliott Dam to satisfy the DCR requirement that a Category I (high hazard) dam be designed to safely pass the Probable Maximum Flood (PMF) event. The dam was originally designed to safely pass 50% of the PMF. The right embankment was stripped and an RCC overlay of 8,500 CY was placed and covered. Twenty-eight post-tensioned anchors were installed through the crest of the dam. Work also included new parapet walls on the left abutment and right embankment, a new Obermeyer gate along the spillway, a retention wall around a Northern Virginia Electric (NOVEC) transmission tower and a new throttling knife gate.



Production rates: Production rates of key project features, including earthworks excavation and placement and concrete batching and placement, were achieved and maintained within the schedule requirements of the project. When required, additional resources were committed to the project in order to maintain project production rates and schedule requirements.

Original Completion Date: June 15, 2012  
Actual Final Completion Date: June 2, 2012

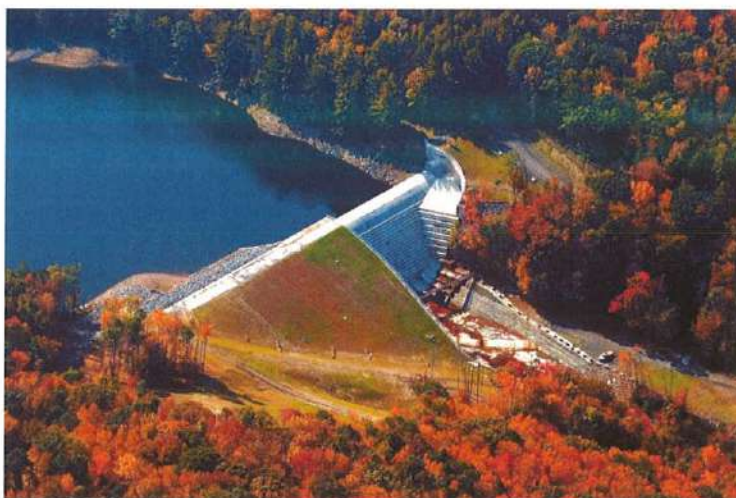
Original Contract: \$7,120,000  
Final Contract: \$7,148,214  
Minor Quantity Changes



## NESBITT DAM, SCRANTON, PA

**Reference:** Pennsylvania American Water Company, Anthony M. Nokovich, P.E., Senior Engineer, (717) 691-2138.

The Nesbitt Dam is located in Spring Brook Township, Pennsylvania. The purpose of the project was to rehabilitate the Pennsylvania American Water Company's Nesbitt Dam as mandated by the Pennsylvania Department of Environmental Protection, Bureau of Waterways Engineering, Division of Dam Safety to comply with current dam safety requirements. The primary objectives of the project included increasing total spillway capacity to convey the Probable Maximum Flood (PMF), improving stability, and correcting observed seepage problems. The Nesbitt Dam project entailed the installation of relief and



temporary dewatering wells, foundation grouting, installation of various water diversions both temporary and permanent, temporary shoring wall, and a permanent H-Pile supported shoring wall. It also included installation of drains embedded in zoned material that discharge through a chambered weir vault. Approximately 37,860 CY of roller-compacted concrete was utilized in the spillway with conventional facing, armored slopes, and two training walls. Approximately 86,000 CY of excavation work, with 19,700 CY of approved backfill was also completed. Over 6,000 CY of total conventional concrete including a new ogee and stepped armoring will be added and 2,419 feet of high capacity post tensioned rock anchors. Work also included installing and maintaining erosion and sediment controls, and the rehabilitation of the gallery mechanical, and bridge. Production rates of key project features, including earthworks excavation and placement and concrete batching and placement, were achieved and maintained within the schedule requirements of the project. When required, additional resources were committed to the project in order to maintain project production rates and schedule requirements.

**SAFETY: ZERO INCIDENTS**

**LEGAL COMPLIANCE: SEE SECTION III**

**LIQUIDATED DAMAGES: \$0**

**Original Final Completion Date: November 1, 2012**  
**Actual Final Completion Date: October 24, 2012**

**Original Contract: \$19,092,055**  
**Final Contract: \$22,274,100\***

**\*Owner-directed significant additional scope to rehabilitate change in condition in existing dam discovered during construction.**



## **SAN JUAN CHAMA DWP DIVERSION DAM INTAKE STRUCTURE - FISH PASSAGE, ALBUQUERQUE, NM**

**Reference:** City of Albuquerque, NM, John Stomp, Project Manager, (505) 768-3631.

The San Juan Chama DWP Diversion Dam construction consisted of a new diversion dam, intake structure, and fish passage structure in the main channel of the Rio Grande River. Work began on the diversion dam in January 2005. The diversion dam is a 655-foot-long structure consisting of a 1,600 cubic yard reinforced concrete sill founded on 50-foot-depth sheet-pile cut-off walls, with 24 each 4 foot to 6-inch-tall Obermeyer-type crest gates, spanning the river. The river intake/fish screen structure is a 1,800 cubic yard reinforced concrete structure consisting of an intake apron with two 7 foot by 50 foot Obermeyer gates; twin intake channels and transition structures; and a fish return flume with structural steel fish screens and baffles. Parallel 60-inch by 550 foot buried pipelines connect the intake structure to a future raw water pump station.

Construction required phased river diversion cofferdams; dredging of 35,000 cubic yards of river sediment; dewatering and foundation prep; installation of sheetpile foundation cutoff walls; structure construction; installation of structural steel and miscellaneous mechanical equipment; electrical distribution and controls; miscellaneous site work and reclamation.



Production rates of key project features, including earthworks excavation and placement and concrete batching and placement, were achieved and maintained within the schedule requirements of the project. When required, additional resources were committed to the project in order to maintain project production rates and schedule requirements.

- **Original Final Completion Date: June 2006**
- **Actual Final Completion Date: June 2006**
  - **Original Contract: \$15,288,725**
  - **Final Contract: \$17,650,000\***
- \*Owner-directed additional scope of work.**

**SAFETY: ZERO INCIDENTS**

**LEGAL COMPLIANCE: 100%**

**LIQUIDATED DAMAGES: \$0**

Arkansas River Levee Improvements - Phase 3

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### III. PROJECT MANAGEMENT PLAN





### III. PROJECT MANAGEMENT PLAN

- a. Identify the key individuals (and provide resumes) from each of the firms who will be the key contacts for this Project. Describe their professional qualifications, experience on similar projects, and availability for this Project. Only individuals who will actually work on this Project should be identified. Include key individuals of subcontractors.

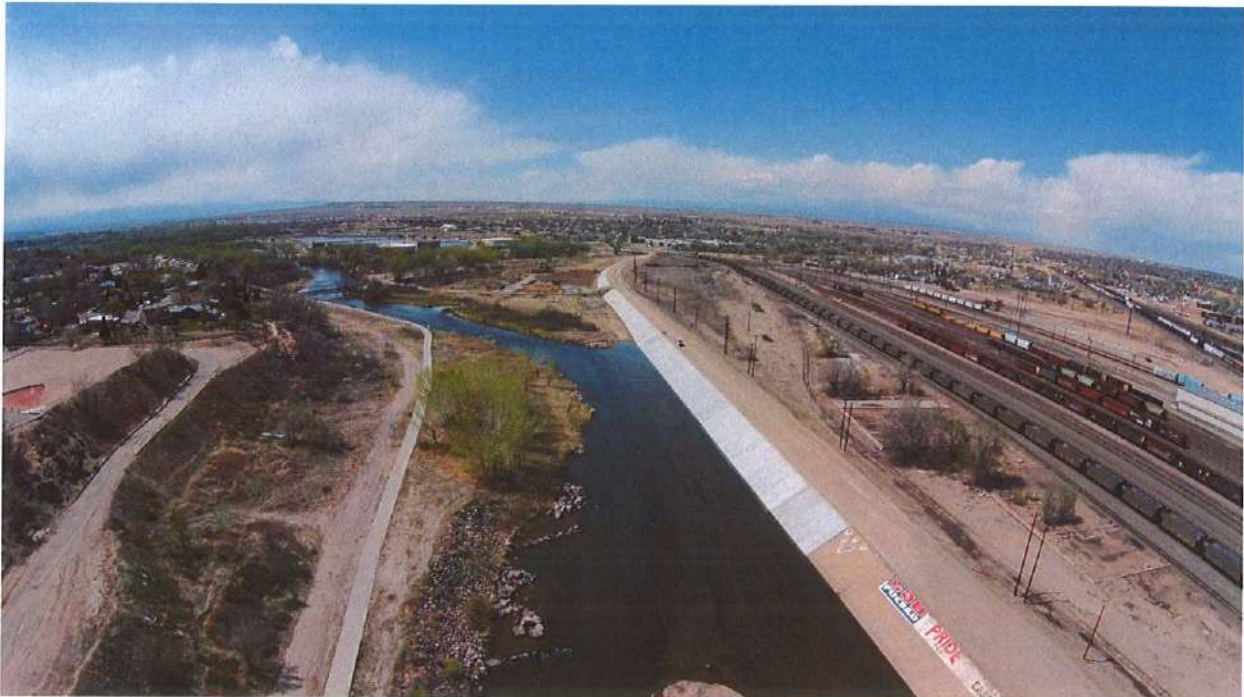
**RESPONSE:** ASI Constructors, Inc. intends to utilize the following personnel to complete the Arkansas River Levee Improvements, Phase 3:

1. John F. Bowen, President / Operations
2. Mike Hart, Senior Vice President / Operations
3. Bill Fuller, Construction Manager
4. Dustin Bennetts, Senior Project Manager
5. Del Shannon, Engineering Liaison
6. Mike Darr and/or Telly Labus, Earthwork/Concrete Superintendent
7. Mike Atwood and/or Seth Richards, Project Manager/Project Engineer
8. Brian Looby, Corporate Safety Director

ASI intends to self-perform the majority of the work for the Arkansas River Levee Improvements, Phase 3.

- b. Organization Chart: Showing organization structure for this Project including subcontractors. Identify key personnel who will be assigned to do this Project.

**RESPONSE:** An Organizational Chart and Resumes for these individuals follow.



- c. Project Time Schedule: Submit a critical path diagram with all salient features and major milestones.

**RESPONSE:** A Project Time Schedule follows.

- d. Describe in detail the comprehensive safety program your company proposes to implement on the Project including:

- 1) Any safety training or incident avoidance programs used by your company for management and trade personnel, including OSHA courses and standards, substance abuse testing and programs, etc. Include firm's random drug testing policy and subcontractor policy regarding drug testing.

**RESPONSE:** ASI intends to utilize the comprehensive Site Safety Plan developed for the Arkansas Levees Phase I project which mirrors ASI's approach to safety. ASI's safety program focuses on employee involvement; training; job hazard awareness; documentation; and program review.

ASI is committed to accomplishing all work activities in a safe and workmanlike manner. We are committed to pursuing a safety program that is designed to provide a safe and healthful workplace for ASI employees, its subcontractors, vendors and other project partners.

ASI recognizes the following factors as being critical to providing a safe and healthful workplace: preventing workplace injuries, knowledge of safe work practices, knowledge of safety & health regulations, and working together as a team to "make it happen". ASI chooses to manage its safety program using a team based philosophy.

It shall be a condition of employment at ASI that all employees follow the requirements of our safety program, applicable OSHA or MSHA regulations, and other industry recognized safety procedures. Failure to follow safety procedures will result in disciplinary action as outlined in the ASI's Safety Program.

ASI places the safety and health of its employees, other contractors and their employees ahead of their production requirements. ASI firmly believes that safety and production can and should be accomplished together. No employee, vendor, sub-tier contractor or project associate of ASI shall be asked or allowed to perform work in known dangerous or potentially dangerous conditions. ASI encourages their project partners to immediately report unsafe conditions or actions directly to ASI's project manager, ASI's Safety Director or to ASI's President, John Bowen.

No ASI employee, vendor, sub-tier contractor or project associate will be disciplined or verbally berated for refusing to work in conditions they consider potentially unsafe or hazardous. ASI has instituted a comprehensive Drug and Alcohol Abuse Program that is part of the ASI Safety Program referenced in the following section.

- 2) Provide a copy of any applicable written health and safety plan used by your company. Describe how the program is incorporated into your Project organization and overall staffing plan.

**RESPONSE:** Due to the size of ASI's Safety Program, it is being provided on a disk that follows.

- 3) Provide by year, the number of OSHA violations your company has received on projects during the past ten years. Describe the violation and provide the final results for each citation identified.

**RESPONSE:** In the last ten years, ASI received 3 OSHA citations on the same date at the Nesbitt Dam Project in Moosic, PA. The date of the citations was February 15, 2012.

1. Citation 1- 29CFR 1926.501 (c)(3) Barricading of an area to which objects could fall, did not prohibit employees from entering the barricaded area, and did not keep objects that could fall far enough away from the edge of a higher level so that these objects would not go over the edge if accidentally displaced.
2. Citation 2- 29 CFR 1926.652(a)(1) Each employee in an excavation was not protected from cave-ins by and adequate protective system in accordance with paragraph (b) or (c) of this section.
3. Citation 3- 29 CFR 1926. 1425(a) Where available, hoisting routes that minimize the exposure of employees to hoisted loads were not used, to the extent consistent with public safety.

**Disposition/Abatement:**

ASI met with the Assistant Area Director in an Informal Conference to discuss the citations.

1. Citation 1 - This citation was reclassified from Serious to "Other than Serious" with an assessed penalty of \$0.00.
2. Citation 2- This citation remained in place. The excavation was over five feet in depth and was not properly sloped. There were no employees in the excavation at the time the inspector saw the condition of the excavation. The excavation was properly sloped immediately. Proposed penalty of \$4,900 was paid and the citation was abated.
3. Citation 3- This citation was vacated in its entirety.

On September 15, 2015, ASI received a citation at the Mountain Creek Flood Retarding Structure #10 in Midlothian, Texas. An "Other Than Serious" citation was issued for a missing ground pin on a cord to a compressor. The violation was remedied and ASI paid a fine in the amount of \$4,000.00.

- 4) Describe by year your company's worker's compensation claims filed and the final result.

**RESPONSE:** Soft tissue injuries were the leading injury driver over the last five years. While these injuries were Recordable due to work restrictions, these injuries had very little or no Lost Time involved. The remainder of injuries involved a couple of simple fractures from crushing injuries or twisting motion. There was no Lost Time involved with these injuries. There were also a couple of incidents that involved sutures and skin irritation from concrete burns. All of the injuries resolved in the anticipated time. Injury management and strong return to work programs has been key to the resolution and success of the resolution of injuries experienced on projects.

- e. Safety Record: Provide last five year's EMR's, Total Lost Workday Incident Rates, and Recordable Incident Rates.

**RESPONSE:**

<u>Year</u>	<u>EMR</u>	<u>Total Lost Workday</u>	<u>Recordable Incident</u>
		<u>Rate</u>	<u>Rate</u>
2015	.90	0	1.99
2014	.95	0	3.59
2013	.91	0.83	4.61
2012	.97	0.76	3.88

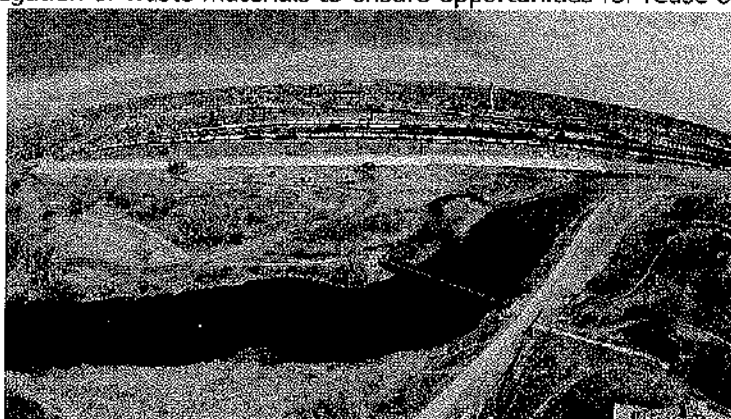
- 1) Describe details of job site fatalities, if any, since inception of firm. This information to be provided for all project team members.

**RESPONSE:** None.

- f. Describe any of your environmental programs on project job sites that apply to your proposed trades (such as use of recycled material, air and water quality capabilities, hazardous waste reduction, etc.).

**RESPONSE:** ASI is committed to performing construction activities with the least affect to the surrounding environment. ASI encourages proper segregation of waste materials to ensure opportunities for reuse or recycling. Employees are made aware of the proper method(s) of disposal.

- g. Describe Quality Assurance/Quality Control Plan addressing procedures regarding project coordination, subcontractor oversight, progress reporting, change order tracking, RFI's, etc.



**RESPONSE:** ASI is committed, through the utilization of a Quality Control System, to obtain a uniform, high quality level of workmanship throughout all phases of procurement, construction and installation of equipment and facilities. The individual(s) designated with the responsibility of quality control management reports to and receives authority directly from the ASI Senior Management Team. The Quality Control System Manager shall formulate and implement the written procedures and instructions contained in ASI's Quality Control Program (available upon request but not included herein due to size constraints). Actual practices are not limited to this plan, and, where a discrepancy exists between this plan and the contract requirements, the contract requirements shall prevail.

ASI is committed through the utilization of a Quality Control System to obtain a uniform, high quality level of workmanship throughout all phases of procurement, fabrication, construction and installation of equipment and facilities. To assure this end, the following principles will be observed:

- A. Maintain supervised controls and written instructions governing quality control procedures and practices while establishing clearly defined responsibility and authority for compliance.
- B. Conform to all contractual requirements, specifications, applicable standards and the ASI Constructors, Inc. Quality Control Plan. Compile accurate records of test certifications and other required documentation.
- C. Notify Project Management and the government of quality discrepancies for immediate corrective action. Assure that corrective action is implemented properly.

### Partnering

Our Team strongly supports "Partnering" involving the owner, ASI and our subcontractors, and the design engineer on major construction projects. Our Team's experience with partnering on some of the most complex dam projects in the United States over the past 10 years resulted in resolution of problems at the lowest level possible, which prevents small problems from developing into big problems. All of these projects progressed to successful completion without any outstanding issues or disputes.

"Partnering" is a team-building process that will establish positive working relationships between ASI, Design Engineer, and the Owner. In adopting a partnering approach, all of the Project Team parties must agree from the beginning on a formal structure using a workshop setting that focuses on creative cooperation and teamwork. Working relationships are carefully and deliberately built based on mutual respect, trust, and integrity. The partnering approach is established on the idea that partnering can provide the foundation for participants to reorient themselves towards a positive approach to problem solving and so that one can foster synergistic teamwork.

Partnering does not replace or substitute for contract plans and specifications. Instead, it is a business plan developed by the project partners that defines the cooperative approach to be used in administering the contract plans and specifications. Mutual goals are defined and all partners agree to work cooperatively so that the project goals can be achieved.

Our objectives for this formal approach to partnering include:

- Promote team building based on knowledge and understanding of each party's goals and responsibilities;
- Allow each participant to gain an understanding of the other participants' organizations, how they operate within the construction process, and their concept of success for the project;
- Develop action plans for attaining project success criteria;
- Obtain commitment from each participant to follow through with activities specified during the workshop; and
- Obtain commitment from each participant to pursue complete and effective communication among the team.

#### Contract administration

The key to successful contract administration is to expedite processing and responses to construction submittals, shop drawings, RFIs, change orders and any other correspondence items. It has been our experience on similar projects that the timely flow of information and constant communication between all team members is essential. We anticipate logging, indexing, and storing electronically using a Contract Management Information System software package. The documents will be linked to an information system so that they can be retrieved and edited within the workflow process.

All paper documents will be scanned and imported into the system. Electronic documents will be directly imported in their original format (PDF, Word, Excel AutoCAD, etc.). Scanned documents will be processed using Optical Character Recognition (OCR) so that all scanned documents will be text searchable for later identification and retrieval. It is our intention to use as little physical paper as is possible, we intend on utilizing electronic communications for documentation whenever it is acceptable.

We will use a conventional hard-copy filing system as a system backup, for use when a paper original is required, or during computer system outages. The paper files and electronic document systems will be cross-referenced, so that corresponding records can be quickly located in either storage medium.

#### Managing changes to the project

Change orders and construction claims on large construction projects typically originate from a number of different sources. Common causes include:

- Conflicts or errors in the drawings and specifications
- Differing site conditions or unanticipated existing conditions
- Utilities not shown on the drawings that are exposed from Contractor potholing
- Engineering findings during the submittal that necessitate design modifications

- Enhancements or changes desired by plant personnel
- Gaps in contractor's definition of scope with subcontractors and suppliers
- Backcharges between Contractor and subcontractors or suppliers
- Delays in approval of submittals
- Delays in decisions
- Abnormal weather impacts

Our approach to managing change orders and claims includes the following:

- First and foremost is thorough knowledge and understanding of the contract terms and conditions with respect to proper procedures, notification, timeliness, requirements and entitlements.
- Establish proper staffing levels so that our project manager and site superintendents can focus on near term activities and maintain a 30 to 50-day forward focus.
- Get an early start on the project to become thoroughly familiar with the project scope, drawings and specifications well in advance of actual construction.
- Anticipate points of vulnerability and seek advance resolution.
- Get an early start in researching drawings and investigating all interface points and routes for piping, electrical power and control system interconnections to identify potential points of concern.
- Closely monitor scheduling, storage and handling of pre-purchase items to reduce the potential for back charges.
- Identify and communicate RFIs, submittal reviews and other time sensitive decision activities as early as possible.
- Maintain oversight of project schedule and anticipate problems in production or with subcontractors.
- Be rigorous in maintaining daily reports, test reports and document control.
- Setup "issue" and "potential change orders" files at the time an issue surfaces Capture data and documents, record occurrences and document manpower to better enable evaluation and substantiation of change orders requests and claims.

Changes in the work will be formally documented with a Potential Change Order (PCO), with clear direction and associated Contract Drawings marked up to illustrate the change. Issuing PCOs and completing negotiations at the time of the change is essential. This is the best way to monitor costs and implement cost control mechanisms. It is also much easier to deal with an issue while it is fresh in the minds of those involved. A change order log will be developed and reviewed at each weekly progress meeting. ASI will work proactively to identify and avoid potential claims. This is done by identifying potential delays, disagreements, and ambiguities in the Contract Documents as soon as possible. We are dedicated to the concept that identifying and avoiding potential claims benefits everyone involved. Most importantly, ASI strives to avoid litigation, which is both expensive and time-consuming.

#### Cost and Schedule Control

ASI utilizes a project controls system to provide schedule and cost control for all our projects. Our schedule and cost control system consists of a detailed list of project activities, deliverables, and information flow dependencies that serve as a guideline for all design and construction disciplines. The benefit of this system to our client's is delivery of a complete, accurate, and well-coordinated work product, completed with minimum time delays and rework effort that meets your budget, schedule, and quality expectations. Schedule tracking is performed using P6.

This project controls system has been applied to many projects as an effective management tool for cost effective planning, design, and construction. Significant elements of this control system include:

- A detailed, phase by phase, project description.  
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- Integration of Owner into the project team.
- Detailed task descriptions.
- Deliverables produced by each element of the project team at each level of planning.
- Information provided to each element of the project team at each level of planning.
- Adherence to schedule.
- Adherence to budgets.

Prior to project initiation we meet with the Owner and Engineer to discuss specific elements that will be implemented to guide specific tasks. This system provides our team with a task-based/schedule loaded work plan that is also used to monitor progress. Associated with this plan we will prepare and regularly update a monthly construction schedule in order to incorporate language that will facilitate our control systems as well as reflect changes in the design process. Our Preconstruction schedules, developed in conjunction with independent estimates at every design milestone, will be critical to establishing our understanding of anticipated construction activity productivity and the critical construction interfaces. Baseline submittals will be reviewed carefully for these items and critical resource allocations and productivity rates will be noted to establish refutation of potential future delay claims. Shop drawings and submittals will be processed in accordance with the Owner's standard practices.

Our team understands the importance of maintaining control of total project cost that includes study, design and construction costs. We have a full complement of in-house construction estimators who prepare all our bids and cost estimates, which provides us with an excellent understanding of market prices for all aspects of a project.

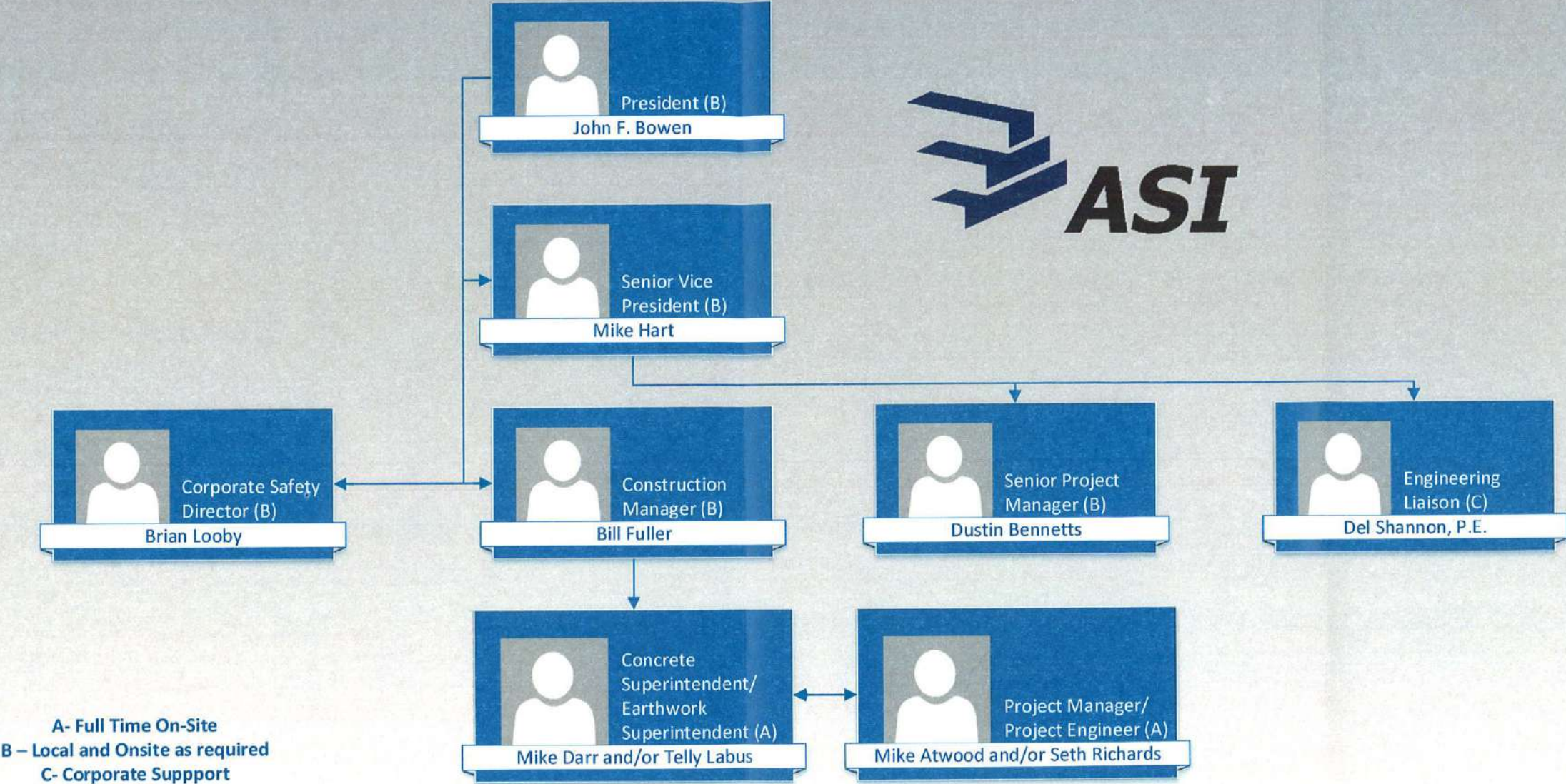
- h. The availability and intended use of domestically produced iron, steel, concrete, and related manufactured goods in the Project. (2 points maximum).

**RESPONSE:** ASI intends to utilize domestically produced products in all aspects of the project.

# TEAM ORGANIZATION CHART









# TEAM RESUMES





**JOHN F. BOWEN, JR.**  
President

**YEARS WITH FIRM:** Since 1993

**TOTAL YEARS OF INDUSTRY EXPERIENCE:** Since 1990

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**KEY QUALIFICATIONS:**

Mr. Bowen has over twenty-five years of dam and water facility construction management, project management, and cost estimating experience. He is responsible for acquisition and project management oversight for all ASI's projects from procurement to closeout. Mr. Bowen has amassed a wealth of experience and earned a strong reputation throughout the dam and water resource construction industry for his in depth experience in the construction of RCC dams. ASI project sizes range from \$500,000 to over \$400,000,000, exclusively in dam and water facility heavy civil construction.

Mr. Bowen's duties include overall responsibility for the operating Company and its subsidiaries, management of all project acquisitions and oversight of all company operations, including responsibility for tracking and managing all project budgets, schedules, contract issues, and maintaining positive client relations.

As President of ASI Constructors, Inc., John has led the construction of some of the largest RCC projects in the United States and abroad to include the \$400 million Taum Sauk Upper Reservoir Rebuild Project which included 3.3 million CY of RCC to complete the construction of an RCC gravity dam with conventional concrete facing. This project was awarded the 2010 USSD Award of Excellence in the Constructed Project. The Wyaralong Dam Project in Beaudesert, Australia, a project that ASI was invited to participate in as a key member of a selected team of highly skilled international alliance members, involved the construction of an RCC dam 1,600 feet in length and 157 feet high. This project was awarded the 2011 Alliance Contracting Excellence Awards (Category A- Major Project Alliances) in Sydney, Australia. Additionally, Mr. Bowen directed the construction of the \$32 million Hickory Log Dam in Canton, GA—the tallest non-federal dam in state of Georgia. This project consisted of the construction of a 188-foot high by 1050-foot long RCC gravity dam and ancillary facilities in only 6 months.

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**PROFESSIONAL LICENSES AND EDUCATION:**

Bachelor of Science, Civil Engineering, University of Virginia - 1990  
Engineer in Training, Virginia

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**EXPERIENCE RECORD:**

**President for the following ASI Projects:**

**Buckeye Lake Dam Improvements CMAR (OH)- \$110 million**  
**Lower Bois d'Arc Reservoir CMAR Team (TX) - \$800 million**  
**Hope Mills Dam Replacement Design-Build (NC) - \$8 million**  
**Quantico Marine Corps Base Design-Build 3 Dams - \$8 million**



Western Branch Dam - \$21.9 million  
Lockport Pool Major Rehabilitation, Stage 1C Forebay Wall (IL) - \$31.9 million  
Duck River Reservoir Phase II Reservoir and Dam (AL) - \$53 million  
Green River Raw Water Reservoir (WY) - \$15.6 million  
Joint Booster Pump Station #3 Reservoir (TX) - \$11.4 million  
Beaver Park Dam Rehabilitation (CO) - \$8.9 million  
Arkansas River Levee Improvements (CO) - \$3.6 million  
Mountain Creek FRS #10 (TX) - 5.6 million  
Upper Dam (ME) - \$16.1 million  
Fort Peck Plunge Pool (MT) - \$33.9 million  
Spring River Dam (AR) - \$3.15 million  
Ute Reservoir Intake Screens, Tunnel and Pump Forebay Shaft (NM) - \$13.98 million  
Rocky Pen Run Dam & Reservoir Hydraulic Structures (VA) - \$11.35 million  
Lake Texoma Outfall to Wylie WTP Raw Water Pipeline Plant Bid Package #3 Balancing Reservoir (TX) - \$21.59 million  
Stagecoach Spillway Replacement, Tacoma Hydroelectric Project (CO) - \$3.9 million  
Los Alamos Canyon Dam Modifications (NM) - \$2.65 million  
Terrace Reservoir Spillway (CO) - \$4.2 million  
Modifications to Lake Roberts Dam (NM) - \$5.3 million  
Lower Occoquan Dam Rehabilitation (VA) - \$3.6 million  
SDS Pueblo Dam Connection General Construction (CO) - \$5.6 million  
Pathfinder Dam Spillway Modifications (WY) - \$2.67 million  
New Creek Site 14 Dam (WV) - \$3.98 million  
Cabresto Dam Rehabilitation (NM) - \$5.5 million  
Dutch Fork Lake Dam Renovations (PA) - \$3.5 million  
T. Nelson Elliot Dam Safety Modifications (VA) - \$6.4 million  
Canton Lake Dam Weir and Hydraulic Structures (OK) - \$42 million  
Dry Comal Creek Flood Retarding Structure (TX) - \$12.7 million  
Nesbitt Dam Project - \$19 million - Dam Rehabilitation  
Burlington Dams Rehabilitation - \$4 million - Dam Rehabilitation  
Hudson Ranch 1 Geothermal Project - \$10 million - Geothermal Plant  
Harry S. Truman Project - \$2.6 million  
Big Haynes - \$1.8 million - Dam Rehabilitation  
Lake Rush Dam Modifications - \$3.2 million - Dam Rehabilitation  
Pathfinder Dam - \$2.7 million - Dam Rehabilitation  
Wyaralong Dam Project Australia - \$348 million AUD (project) - New Dam  
Wide Hollow Water Supply Storage Facility - \$8.4 million  
Cotter Dam Enlargement Project Australia - \$362 million AUD - New Dam  
Dog River Dam Emergency Repairs - \$1.3 million - Renovation  
Deep Creek Dam - \$7.7 million - New Dam  
Bear Creek Dam Rehabilitation Project - \$10 million - Construction of an RCC Berm (Dam)  
Dog River Dam Modifications - \$11.4 million - Spillways and Outlet Modifications  
Catawba Dam ESSI Project - \$13.6 million - Dam Modification and Rehabilitation  
USAF Academy Repair Non-Potable Reservoir No.2 - \$3.1 million - Dam Rehabilitation  
Repair/Alter Storm Water System Phase II - Big Lake Dam - \$1.1 million - Dam Rehabilitation  
Taum Sauk Plant - Upper Reservoir Reconstruction Project - \$405 million - New Dam  
Modifications to Dams Y-15 and Y-16 Yellow River Watershed (NC) - \$6.1 million - Spillways/Outlet Modification  
Hickory Log Dam - Phase II (NC) - \$6.36 million - New Dam

**Vice President for the following ASI Projects:**

**Indiana Army Ammunitions Plant (IN)** - \$1.9 million - Dam Rehabilitation  
**Pine Brook Dam and Reservoir (CO)** - \$4.0 million - New Dam and Reservoir  
**Little Puerco Wash Flood Protection (NM)** - \$3.37 million - New Dam  
**San Juan Chama DWP Diversion Dam (NM)** - \$15.3 million - New Dam  
**Franklin Dam Replacement (KY)** - \$4.98 million - New Replacement Dam  
**Marrowbone Creek Dam No. 1 (VA)** - \$2.48 million - Dam Rehabilitation  
**Yellow River Dam Y-17 Rehabilitation (GA)** - \$1.45 million - Dam Rehabilitation  
**Piute Dam Rehabilitation (UT)** - \$4.2 million - Dam Rehabilitation  
**Upper Stillwater Dam (UT)** - \$5.59 million - Dam Rehabilitation  
**Standley Lake Dam Rehabilitation (CO)** - \$32.5 million - Dam Rehabilitation  
**Loch Raven Dam Rehabilitation (MD)** - \$28.9 million - Dam Rehabilitation  
**Wolf Creek Tunnel Lining and Roadway Project (CO)** - \$12.24 million  
**Bluestone Lake Dam (WV)** - \$20.4 million

**Fort Peck Plunge Pool (MT)**

Client: U.S. Army Corps of Engineers

Contract Value: \$33,897,764

Duration: 11/2012 – Present

Fort Peck Dam on the Missouri River was subjected to severe flooding in 2011. This required operating its spillway for approximately 4 months with peak discharges more than double the previous maximum discharge since the project was constructed in 1938. The hole scoured at the downstream end of the spillway exposed much of the cutoff structure supporting the spillway chute. There is now less than 30 feet of embedment remaining of the original 70 feet. There is a valid concern that if the spillway cutoff structure is undermined. The purpose of this project is to improve the stability of the existing cutoff structure by filling a significant portion of the scour hole with Roller Compacted Concrete (RCC) and installing tieback anchors through the existing left cutoff wall. In addition, training walls will be used to facilitate placement of backfill to support the existing cutoff structure wing walls and to help divert erosive flow away from the critical locations near the intersection of the existing cutoff center wall and wing walls. Other work to be performed includes expanding a 175 foot apron length to 250-feet and 350-feet; widening the base of the training walls to facilitate future expansion; deepening the cutoff wall; constructing a reinforced concrete cap on the apron to increase longevity of the repair; and repairing concrete surface damage (spalling and cracks) on the existing spillway chute.

**Lake Texoma Outfall to Wylie WTP Raw Water Pipeline**

Client: North Texas Municipal Water District

Contract Value: \$21,589,331

Duration: 01/2013 – 11/2013

This project consisted of connecting to the existing 72-inch outfall pipeline near existing Lake Texoma Outfall at FM902 and Bennett Rd. west of Tom Bean, TX; construction of a dual-cell 240 Million Gallon Balancing Reservoir near existing Lake Texoma Outfall on FM902 east of Bennett Rd.; installation of approximately 1,500 LF of Raw Water Transmission Pipeline including approximately 800 LF of 96-inch and 700 LF of 84-inch C200 Steel pipe; and installation of in-line isolation valves and air-release valves.

**Rocky Pen Run Dam & Reservoir Hydraulic Structures (VA)**

Client: URS Corporation

Contract Value: \$35,500,000

Duration: 04/2012 – 03/2013

The Rocky Pen Run Dam & Reservoir Project consists of the construction of an earth embankment dam, a 26.5 MGD raw water pump station, rock excavation, labyrinth weir crested chute spillway and stilling basin, intake tower and pipeline, saddle dike, and impoundment



preparation for the reservoir area. The construction of the dam will generally consist of the placement of approximately 950,000 CY of multiple distinct zones of select material. The multiple zones of the dam will consist of a core, intermediate shell, outer shell, and chimney and blanket drains. The upstream and downstream slopes will be 3H:1V and 2.5H:1V respectively, with the various interior zones having steeper slopes. Riprap will be placed on portions of the upstream slope.

**Cotter Dam Enlargement Project; Canberra, Australia (ACT)**

Client: Bulk Water Alliance

Contract Value: \$362,000,000 AUD (Project)

Duration: 01/10 – 06/2013

The Cotter Dam Enlargement Project involved the design and construction of a new 260 foot high RCC dam approximately 1,000 feet down-stream of the existing 100 foot high Cotter Dam. The new dam will be a concrete gravity dam with a grout enriched RCC face. Flood flows were passed over the dam through principal and auxiliary spillways. Because of the hot and arid conditions in the region, strict temperature controls were implemented for the concrete to reduce cracking of the concrete during the curing process. The project is a design build alliance between owner, engineer and contractor. ASI is a sub alliance participant.

**Hudson Ranch 1 Geothermal Project**

Client: Hudson Ranch I Power LLC, Dallas, TX;

Contract Value: \$ \$10,736,510

Duration: 10/2010 – 07/2011

The Hudson Ranch I project is a 49.9 megawatt (MW) Geothermal power generating facility under development within the Salton Sea known resource area in the Imperial County city of Calipatria, California. ASI Constructors, Inc. is the structural concrete contractor of the record for this project.

ASI is providing construction services involving the erection of the major foundations on this project including a turbine-generator structure, cooling tower, wellhead separators, crystallizers, water tanks, primary and secondary clarifier tanks, pipeline supports, and various ancillary structures. Raw water ponds and perimeter flood protection embankments are planned to be constructed at the perimeters of the proposed geothermal plant site. The project will utilize state of the art flash steam technology and will be operational in 2012.

**Wyaralong Dam Project; Beaudesert, Australia**

Client: Queensland Water Infra. Pty Ltd (QWI);

Contract Value: \$348,000,000 AUD (Project)

Duration: 10/2009 – 03/2011

ASI Constructors teamed as an alliance member to construct the Wyaralong Dam. The dam will be built by mid 2011, and will provide an extra 17,000 acre-feet of water every year. The dam is expected to be 1,600 ft in length and 157 ft high. The Alliance (Wyaralong Dam Alliance) is comprised of a team of highly skilled professionals consisting of leading construction, design and infrastructure specialists with collective individual experience on hundreds of dams. The works package includes the construction of a roller compacted concrete dam, which will be built across the river channel and designed to pass flood flows over a centrally placed spillway within the embankment itself. The dam will be designed to withstand full flood and earthquake loading in accordance with the Queensland Dam Safety Management Guidelines and the Australian National Committee on Large Dams (ANCOLD) Guidelines.

**Taum Sauk Upper Reservoir Rebuild Project**

Client: AmerenUE, MO;

Contract Value: \$405,000,000

Duration: 01/2007 – 02/2010

Project consists of excavation, material crushing/processing, and RCC production and placement to replace the existing rock fill dam after a catastrophic failure. Project features a RCC quantity of 3,000,000 CY. The Taum Sauk Plant - Upper Reservoir Rebuild Project consists of returning an



existing AmerenUE Pumped Storage Generation Facility to working condition after the Upper Reservoir suffered a breach in the existing concrete faced rockfill dam. The facility falls under the jurisdiction of the Federal Energy Regulatory Commission (FERC) and the project is being constructed to satisfy requirements imposed by FERC for a return to service. These requirements are being fulfilled by replacing the concrete face rockfill dam with a new symmetrical RCC dam. The RCC aggregates for the project are being produced by crushing of the remaining rockfill dam materials after removal of the concrete facing element. The major work activities associated with this process consist of excavation, rock excavation, crushing, foundation cleaning, dental/leveling concrete placement, RCC placement, upstream and downstream formwork, and conventional concrete facing placement. Three RCC batch plants and one conventional concrete batch plant have been erected onsite to produce these materials required for dam construction. The dam axis has a length of 6,750 lf and the dam is being constructed in a series of 9 monoliths each containing +/- 300,000 cubic yards of RCC.

#### **Buckhorn Reservoir Expansion**

Client: City of Wilson, NC;

Contract Value: \$17,544,000

Duration: 03/1998 - 06/1999

Project Manager for construction of new 84,000 CY, 44 ft. high, 2,562 ft. crest length RCC dam. Major items of work include develop and implement phased stream diversion; foundation dewatering, grout dam foundation; construct starter wall; prepare and place precast concrete panels on upstream face with PVC geomembrane; install dam foundation and internal drains; placement of RCC, bedding mixes, and conventional concrete for RCC dam, spillway, intake structure, downstream weir and misc. structures. Clearing and grubbing, related road improvements, misc. site, mechanical, electrical and instrumentation work.

#### **Littlerock Dam and Reservoir Restoration Project**

Client: Palmdale Water District, Palmdale, CA;

Contract Value: \$12,500,000

Duration: 04/1993 - 06/1994

Office Project Engineer for buttressing and raising an existing arch buttress dam with a new, attached, conventional concrete faced RCC dam. Features include foundation rock blasting and excavation, considerable concrete demolition, high pressure water blast surface preparation of existing dam, construction of a new outlet works system, shotcreting the existing dam's upstream face, producing, delivering and placing the RCC buttress, constructing a new 320 ft. (100m) ogee spillway, and raising the existing dam. Includes 115,000 CY RCC and 25,000 CY conventional concrete.

#### **Estimating Manager for ASI RCC**

Responsible for all company work acquisitions to maintain \$50 million annual work program in heavy-civil engineering construction involving dam and water facility construction. Tasks included overall management of estimating department, responsibility for cost estimate preparation, proposal preparation, prime contract negotiation, subcontract and vendor contract negotiation, and project startup. Responsibilities also include company marketing and participation in industry trade associations.

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#### **TECHNICAL PAPERS & PRESENTATIONS:**

Presentation: November 1998, PCA RCC Dam & Dam Rehabilitation Short Course & Tour, Buckhorn, NC

Presentation: September 2004, International RCC Dams Seminar & Study Tour, Atlanta, GA

Presentation: September 2009, RCC 2009 St. Louis, MO

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**PROFESSIONAL EXPERIENCE:**

<b>December 2005 to Present</b>	<b>ASI Constructors, Inc., Pueblo West, Colorado</b> President
<b>June 1993 to November 2005</b>	<b>ASI RCC, Inc., Buena Vista, Colorado</b> Vice President
<b>July 1990 to May 1993</b>	<b>Lodigiani USA, Ltd., Fairfax, Virginia</b>
<b>1988 to 1989</b>	<b>John F. Bowen &amp; Associates, McLean, Virginia</b>

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**REFERENCES:**

<b>Randy Bass, P.E., Senior Associate</b> Ph. (770) 781-8008 Email: <a href="mailto:rbass@schnabel-eng.com">rbass@schnabel-eng.com</a>	Schnabel Engineering (Atlanta) 5975 Shiloh Rd. Suite 114 Alpharetta, GA 30005
<b>Dan Johnson, P.E., Branch Manager</b> Ph. (303) 440-5240 Email: <a href="mailto:djohnson@geiconsultants.com">djohnson@geiconsultants.com</a>	GEI Consultants 1790 38 <sup>th</sup> Street, Unit 104 Boulder, CO 80301

**MICHAEL W. HART**  
Sr. Vice President

**YEARS WITH FIRM:** Since 2011

**TOTAL YEARS OF INDUSTRY EXPERIENCE:** Since 1984

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**KEY QUALIFICATIONS:**

Mike Hart is Senior Vice President of ASI Constructors, Inc. and is responsible for the procurement and execution of all projects consistent with company goals and strategy. Mike has over 29 years of diverse experience in the heavy civil and heavy industrial/power arenas. During his career Mike has successfully executed numerous projects that combine complex heavy civil and marine challenges with system and process elements. Projects include Skimmer wall replacements, Fish lifts and ladders, turbine rebuilds, and RCC dam construction; as well as public infrastructure and private industrial and power work.

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**PROFESSIONAL LICENSES AND EDUCATION:**

B. S. Mining Engineering, West Virginia University, 1984  
EIT, North Carolina  
Software: Microsoft Office, Primavera Suretrak, P3, HCSS

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**EXPERIENCE RECORD:**

**ASI Constructors, Inc., Pueblo West, CO**

2011 – Present, Senior Vice President

As Sr. Vice President, Mike is responsible for the procurement and execution of all projects consistent with company goals and strategy. Some of Mike's duties include oversight of work procurement and project management, as well as schedule, budget, contract compliance, and client relations management.

**Major Projects Included:**

- Upper Dam (ME) - \$16,101,970
- Lake Texoma Balancing Reservoir - \$21,589,331
- Fort Peck Plunge Pool - \$33,897,764
- Ute Reservoir Project - \$13,980,563
- Mt. St. Helens - \$2,243,250
- Terrace Reservoir - \$4,183,825
- Los Alamos Dam - \$5,246,282
- Rocky Pen Run Dam & Reservoir - \$35,500,000
- Lower Occoquan Dam - \$3,634,500
- Canton Lake Dam - \$42,019,233
- Dry Comal Flood Retarding Structure - \$12,827,000
- T. Nelson Elliot Dams - \$7,120,000
- Cabresto Lake Dam - \$5,086,000
- Nesbitt Dam Project - \$20,186,000
- Burlington Dams Rehabilitation - \$4,035,197



- Hudson Ranch 1 Geothermal Project - \$10,736,510
- Harry S. Truman Project - \$2,593,000
- Big Haynes - \$1,775,000
- Lake Rush Dam Modifications - \$3,194,000

### **Cianbro Corporation**

2002 – 2010 Vice President and General Manager

As Vice President and General Manager at Cianbro, Mike was responsible for Heavy Civil and Heavy Industrial core competencies with market diversification primarily in the Public Infrastructure, Industrial Manufacturing, Energy, and Marine markets. He worked with multiple contract types such as LS, UP, T&M, and Cost reimbursable. During his time with Cianbro he oversaw Power and Industrial business growth from \$10MM to \$ 60MM. Mike also performed local business development duties and assisted with the estimating functions with corporate support. Some of the other highlights included, P&L responsibility for Mid Atlantic Business Unit; Business Unit volume \$50-\$140MM, (2010) current year \$85MM; Open Shop, self-perform; 350 +/- work force.

#### **Major Projects Included:**

- Lehigh Union Bridge Cement Plant Modernization - \$ 125MM
- Capitol Cement Modernization - \$43 MM
- Chesapeake Bay Bridge redecking, MdTA - \$ 55MM
- Loch Raven Dam Rehabilitation, City of Baltimore - \$ 35 MM
- Dundalk Marine Terminal expansion, MPA - \$35 MM
- Magellan Trestle, Dolphins, and Dock Piping, Magellan Holdings - \$ 8 MM
- I-495 Widening, MdSHA - \$ 25 MM
- National Harbor Piers and Building Piles, Petersen Companies - \$ 27 MM
- Humpback Bridge, EFLHD, FHWA - \$ 35 MM
- Pennington Avenue Bridge, City of Baltimore - \$ 24 MM
- Ivy City Transmission Line and Substation, Amtrak - \$ 20 MM
- Patapsco Sewage Pump Station, Baltimore County - \$ 15 MM
- Hastings Gas Processing Plant Upgrade, Dominion Transmission - \$ 7 MM
- Hollywood Slots Gaming Facility, Penn National - \$ 35 MM
- New Design Water Treatment Upgrade, Frederick County - \$ 6 MM
- Potomac Offshore Intake, Fairfax County Water Authority - \$ 14 MM

### **Cianbro Corporation**

2001 – 2002, Regional Manager

1999 - 2000, Sr. Project Manager

Lehigh Union Bridge Modernization project

1998 – 1999 Project Manager

Lancaster Street Bulkhead and Caroline Street Pump Station, City of Baltimore - \$6MM

1997 – 1998, Business Development Manager

1997, Project Manager

Weems Creek Bridge Replacement, MdSHA - \$8MM. (Hydraulically powered Swing span bridge)

1995 – 1996, Project Manager

York Haven Fish Passage Design Build, GPU - \$5MM; Kimberly Clark bulkhead replacement, Converting Lines demolition, and Industrial maintenance - \$10MM

1994 – 1995, Project Superintendent

Project Manager, Safe Harbor Fish Passage, Safe Harbor Water Power - \$16MM

1994 - Project Superintendent



US Naval Academy Bridge, MdSHA - \$32MM  
1993 - Project Superintendent  
Christopher Columbus Center piling and foundations, Barton Malow-Essex - \$2MM  
1992 - Project Superintendent  
Occoquan Dam Anchors, Fairfax County Water Authority - \$1.5MM  
1990 - 1992, Project Engineer  
Calvert Street Bridge Rehabilitation, DCDPW - \$12MM  
1986 - 1990, Project Superintendent  
Casting Yard Superintendent and Engineer, Albemarle Sound Bridge (precast segmental),  
NCDOT - \$30MM  
1984 - 1986, Field Engineer  
Ft Lauderdale Bridges (precast segmental), FDOT - \$12MM

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**ORGANIZATIONAL MEMBERSHIPS:**

AGC of America, Highway and Transportation Leadership  
AGC/ARTBA/AASHTO Joint Committee  
NASTO Chair, AGC  
AGC of Maryland Board of Directors  
MTBMA Board of Directors

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**PROFESSIONAL EXPERIENCE:**

<b>January 2011 to Present</b>	<b>ASI Constructors, Inc., Pueblo West, Colorado</b> Sr. Vice President
<b>1984 - 2010</b>	<b>Cianbro Corporation, Baltimore, Maryland</b> Vice President & General Manager 2002 - 2010 Regional Manager, 2001 - 2002

**WILLIAM (BILL) D. FULLER**  
Construction Manager

**YEARS WITH FIRM:** Since 1987

**TOTAL YEARS OF INDUSTRY EXPERIENCE:** Since 1971

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**KEY QUALIFICATIONS:**

For 38 years, Bill Fuller has built dams, tunnels, power plants, treatment plants, runways, crushers, and numerous concrete and steel structures. His amazing accumulation of experience sheds light on ASI's diversity and appetite for challenging projects. He is known for his innovation and "can do" attitude. Following an early 6-year career start in underground mining, Bill quickly moved through the ranks as a carpenter and carpenter superintendent for ASI. For 24 years he has been General Superintendent, Operations Manager, and/or Construction Manager on many of ASI's most demanding and successful projects. Bill, very likely, has more bottom-line RCC construction responsibility than most, if not all, others who have worked in his capacity. Consequently, Bill is recognized by industry leaders and RCC experts as an RCC production expert in his own right.

A few of Bill's notable accomplishments include superintending or having construction management responsibility for each of ASI's RCC projects; construction of 150 foot high, award job delivery systems, components, concrete handling and placement innovations; and providing method and equipment consultation for each of ASI's international involvements. Other experience includes coffer dam installation, drilling and grouting, rock excavation, design of access and egress methods, piling installation, and managing welding and fabrication for all types of temporary and permanent construction tasks.

In addition to his Construction Manager role, Bill is a Manager of all ASI concrete plants, conveyor systems, telebelts, and pump trucks. These tasks include selection, methods, plant set-up, plant removal, and job specific plant and conveyor modifications.

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**PROFESSIONAL LICENSES:**

Blasting License

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**EXPERIENCE RECORD:**

**Fort Peck Plunge Pool; Glasgow, MT**

Client: U.S. Army Corps of Engineers;

Contract Value: \$33,897,764

Fort Peck Dam on the Missouri River was subjected to severe flooding in 2011. This required operating its spillway for approximately 4 months with peak discharges more than double the previous maximum discharge since the project was constructed in 1938. The hole scoured at the downstream end of the spillway exposed much of the cutoff structure supporting the spillway chute. There is now less than 30 feet of embedment remaining of the original 70 feet. There is a valid concern that if the spillway cutoff structure is undermined. The purpose of this project is to improve the stability of the existing cutoff structure by filling a significant portion of the scour hole with roller-compacted concrete (RCC) and installing tieback anchors through the existing left cutoff wall. In addition, training walls will be used to facilitate placement of backfill to support the existing cutoff structure wing walls and to help divert erosive flow away from the critical locations near the intersection of the existing cutoff center wall and wing walls. Other work to be performed includes



expanding a 175 foot apron length to 250-feet and 350-feet; widening the base of the training walls to facilitate future expansion; deepening the cutoff wall; constructing a reinforced concrete cap on the apron to increase longevity of the repair; and repairing concrete surface damage (spalling and cracks) on the existing spillway chute.

**Green River Raw Water Reservoir; Green River, WY**

Client: Green River–Rock Springs–Sweetwater City, Joint Powers Water Board

Contract Value: \$15,548,882

The Project consists of the construction of an approximate 350 acre foot Raw Water Reservoir upgrading of the existing JPWB Water Treatment Plant in Green River, WY, with primary element general construction components as follows: Approximately 320,000 CY of mass excavation, including rock and unclassified; Approximately 200,000 CY of dam embankment construction, including filter drains; Approximately 26,000 CY of soil cement step, slab, plate and wall; Approximately 2,200 CY of cast-in-place concrete reservoir inlet and outlet structures, and drainage control structures; Approximately 50,000 CY of smooth and textured geomembrane reservoir lining; Installation of approximately 3,300 LF of exterior 30" and 36" PVC Reservoir supply and discharge piping, including connections to the existing system; Interior Pump and 30" Steel Piping Modifications to the existing River Intake Structure; Secondary project components include normal project administration, reservoir instrumentation, roadway and bridge construction, fencing and security, irrigation systems, and seeding and reclamation.

**Clear Lake Dam Replacement; CO**

Owner: Xcel Energy

Contract Value: \$6,180,000.00

The Clear Lake Dam is located in Georgetown, CO and is part of the Georgetown Hydroelectric Project, owned and operated by Public Service Company of Colorado, d/b/a Xcel Energy. Clear Lake provides storage for winter-period operation of the hydroelectric plant and is also an important recreational facility in the region. Following state safety inspections, FERC expressed concerns about the dam's inadequate spillway capacity. The existing small, ungated spillway had the capability of passing the estimated 50-year flood prior to the dam being overtopped. Overtopping of Clear Lake Dam during a large flood could result in dam failure. The project consists of the removal of the existing embankment dam and the construction of a new RCC dam in the same location.

**Canton Lake Dam Weir and Hydraulic Structures; Blaine County, OK**

Client: USACE District, Tulsa

Contract Value: \$42,019,233

This project consists of constructing a roller-compacted concrete flood control structure. At Canton Lake, the Government is constructing an auxiliary spillway adjacent to the right abutment of the existing spillway. This auxiliary spillway will be controlled by a weir and nine fuse gates. This auxiliary spillway will be located in the auxiliary channel which is 480 ft. wide and has been partially excavated up to the auxiliary spillway location to final channel grade. Vertical diaphragm walls approximately 50 ft. tall line the auxiliary channel. Construction activities include placement of a concrete weir (sill) approximately 35 ft. deep by 70 ft. long and spanning the 480 ft. wide channel (approximately 40,000 CY of concrete placement); concrete water intake monolith approximately 40 ft. tall with a 47 ft. x 15 ft. base; concrete intake conduit approximately 11 ft. square and 250 ft. long; and concrete fuse gates, nine each, approximately 30 ft. tall and 50 ft. wide. Construction activities will also include, structural and mass concrete placement requiring on-site batch plant, formwork, shoring of existing diaphragm walls, excavation, and de-watering. The shoring of the existing diaphragm walls, excavation and subsequent weir construction presents a unique constructability challenge. The contractor is required to shore the soil beneath the walls during excavation. In addition, the contractor will be responsible for maintaining the structural stability of the walls during the excavation process for both the weir and the conduit. The interactions between



the diaphragm wall and soil during phases of excavation are complex and significant analysis will be required. Potential solutions may include but are not limited to: additional anchoring of the existing diaphragm walls, new secant pile or diaphragm wall below (or overlapping) the existing diaphragm walls, piles driven at the edge of the conduit excavation. After completion the final phase will include further excavation to connect the new spillway to the reservoir.

**Upper Dam; Rangeley, ME**

Client: Brookfield Renewable Energy

Contract Value: \$16,101,970

Duration: 06/2012 – 12/2015

Upper and Middle Dams are located at the headwaters of the Androscoggin River watershed in Western Maine near the New Hampshire border. Upper Dam is part of an extensive water storage system to regulate flows of the Androscoggin River for downstream hydroelectric power generation, flood control, and other industrial uses. The project is a turnkey remediation and replacement of Upper Dam. The work at Upper Dam involves the complete renewal of the spillway structure, the remediation of embankments and the design and the allowance for future installation of a minimum flow turbine generator. The improvements are part of FERC Part 12 modifications and are being driven primarily by the need to safely pass flows under probable maximum flood conditions.

**Lake Texoma Outfall to Wylie WTP Raw Water Pipeline; TX**

Client: North Texas Municipal Water District

Contract Value: \$21,589,331

This project consisted of connecting to the existing 72-inch outfall pipeline near existing Lake Texoma Outfall at FM902 and Bennett Rd. west of Tom Bean, TX. The project work involved construction of a dual-cell 240 million gallon Balancing Reservoir near existing Lake Texoma Outfall on FM902 east of Bennett Road. Work also included installation of approximately 1,500 LF of Raw Water Transmission Pipeline including approximately 800 LF of 96-inch and 700 LF of 84-inch C200 Steel pipe and installation of in-line isolation valves and air-release valves.

**Dry Comal Creek Flood Retarding Structure; TX**

Client: USACE District, Tulsa

Contract Value: \$12,694,000

This project consisted of constructing a roller-compacted concrete flood control structure on a tributary of the Dry Comal Creek, in Comal County, Texas.

**Cabresto Lake Dam; NM**

Owner: Cabresto Lake Irrigation Community

Contract Value: \$5,086,000

Due to the site not having any geotechnical data to base the dam foundation on it was decided to have a series of value-engineering workshops with the New Mexico Office of the State Engineer and the design Engineer to further define the scope of the various design changes and better quantify areas for cost and schedule modifications. Using the design/build approach, the project basically consists of breaching the existing dam and constructing a new dam approximately 160 feet downstream of the existing dam that can safely impound Cabresto Lake and pass the spillway design flood. The new dam consists of a zoned earthen embankment with multi-level outlet works and an overtopping spillway with a low-flow notch and stilling basin. The overtopping spillway consists of roller-compacted concrete (RCC) with conventional concrete surface plating.

**New Creek Site 14; WV**

Client: City of Manassas, VA

Contract Value: \$3,965,000

The earth fill embankment dam was constructed in 1963. This rehabilitation made necessary improvements to the reinforced concrete intake riser, auxiliary spillway (ASW), and downstream slope of the embankment. The work consisted of replacing the reinforced concrete intake riser structure, modifying the open channel auxiliary spillway to include a roller compacted concrete



(RCC) structural stepped chute spillway, realigning the auxiliary spillway outlet channel, flattening the downstream slope of the embankment and installing a filter and drainage system, and extending the principal spillway (PSW) outlet works downstream. Site restoration and wetland mitigation plants are included in the work.

**Rocky Pen Run Dam & Reservoir Hydraulic Structures; VA**

Client: URS Corporation

Contract Value: \$35,500,000

The Rocky Pen Run Dam and Reservoir Project consisted of the construction of an earth embankment dam, a 26.5 MGD raw water pump station, rock excavation, labyrinth weir crested chute spillway and stilling basin, intake tower and pipeline, saddle dike, and impoundment preparation for the reservoir area. The construction of the dam will generally consist of the placement of approximately 950,000 CY of multiple distinct zones of select material. The multiple zones of the dam will consist of a core, intermediate shell, outer shell, and chimney and blanket drains. The upstream and downstream slopes are 3H:1V and 2.5H:1V respectively, with the various interior zones having steeper slopes. Riprap was placed on portions of the upstream slope.

**Stagecoach Spillway Replacement, Tacoma Hydroelectric Project; Durango, CO**

Client: Xcel Energy

Contract Value: \$3,878,000

The Stagecoach Spillway Replacement included clearing, grubbing, preparation of a staging/stockpile areas, and improvement of the access road. Work included installation of a new culvert crossing in the inlet channel, stripping and stockpiling topsoil, demolition of the timber crib Stagecoach Dam and wooden spillway planking, soil and rock excavation and foundation preparation and cleaning. Work also included placing dental concrete, backfill concrete, and slush grout, installing rock anchors under the new spillway slab, placing structural concrete for the new labyrinth spillway, processing on-site soils to furnish and placing Zone 1 Fill and Zone 2 Fill in the spillway backfill embankment. Work included processing on-site riprap, excavated rock, rock from the existing timber crib dam, or other quarry sites to furnish and placing Type 1 riprap or Type 2 riprap, furnish from off-site sources and place Gravel Filter, basecourse, Type 1 riprap bedding, and Type 2 riprap bedding and installing toe drain pipe and the structural concrete toe drain headwalls. Work also included installing dam instrumentation, the log boom, the boat dock, and chain link fencing, and reclamation at the Stagecoach Spillway Site and the access road.

**T. Nelson Elliott Dam Safety Modifications; VA**

Client: National Resources Conservation Service

Contract Value: \$6,445,000

The T. Nelson Elliott Dam is located in Prince William County, Virginia and is a composite dam that consists of both concrete and earthen sections. The dam is 1,306 feet long and 74 feet high from the dam crest to the stream. The dam was designed in 1968 by Hayes, Seay, Mattern & Mattern and is categorized as a Class I (high hazard) dam by the Virginia Department of Conservation and Recreation (DCR), which is the regulatory agency that has jurisdiction over the dam. This purpose of the T. Nelson Elliott Dam Improvements Project was to improve Elliott Dam to satisfy the DCR requirement that a Category I (high hazard) dam be designed to safely pass the Probable Maximum Flood (PMF) event. The dam was originally designed to safely pass 50% of the PMF.

**Mt. St. Helens Sediment Retention Structure, Spillway Elevation Project; WA**

Client: USACE

Contract Value: \$2,243,250

This contract involved raising the spillway crest elevation of the existing Sediment Retention Structure (SRS). The SRS was constructed in the late 1980's to trap sediment eroding from the debris avalanche on Mt. St. Helens. ASI was a subcontractor to LKE on this job performed the RCC work.

**Nesbitt Dam Project; PA**

Client: Pennsylvania American Water Company

Contract Value: \$19,057,000



The project work included rehabilitating the Pennsylvania American Water Company's Nesbitt Dam as mandated by the Pennsylvania Department of Environmental Protection, Bureau of Waterways Engineering Division of Dam Safety to comply with current dam safety requirements. The primary objectives of the project included increasing total spillway capacity to convey the Probable Maximum Flood (PMF), improving stability, and correcting observed seepage problems. The project was needed to address safety related concerns identified at the dam. Work also included installing a RCC buttress and post-tensioned rock anchors, armoring the existing embankment to pass the PMF, widening the embankment's top width and flattening its downstream slope, and installation of a drainage blanket and drain system to collect observed seepage.

**Wide Hollow Water Supply Storage Facility; Escalante, UT**

Client: New Escalante Irrigation Co. and Wide Hollow Water Cons.: Contract Value: \$8,400,000

The Wide Hollow Water Supply Storage Facility work included removing the existing embankment and foundation materials, then reconstructing the foundation and embankment to a higher elevation that will restore the structure's original storage capacity. Significant features of the construction include site preparation and restoration, removal of the existing embankment and foundation, construction of a new embankment, installation of outlet works, construction of spillways, construction of features at the Escalante Petrified Forest State Park to address impacts from the raised water level and mitigation efforts to compensate for loss of wetland and riparian habitats.

**Harry S. Truman Project; Warsaw, MO**

Client: Department of the Army;

Contract Value: \$2,637,447

The Harry S. Truman Dam and Powerhouse work included drilling 194 4-inch holes, forming and pouring 1,300 CY concrete using tremie pipes, setting 93 deformed bar anchors, drilling 148 4-inch drain holes up to 40 ft. deep all 50 ft. underwater and/or from a barge. Work included the placement of a concrete overlay over the spillway basin floor of the Harry S. Truman Dam and Powerhouse. The overlay was placed by tremie pipe method under approximately 48 ft. of water. ASI was responsible for designing the concrete mix, developing a placement method, cleaning the basin floor, installing grouted anchors, placing formwork, placing the concrete to the lines and grades specified, and installing drains as specified to meet the requirements of this specification and any incidental related work.

**Catawba Dam ESSI Project; Nebo, NC**

Client: Duke Energy Corporation;

Contract Value: \$13,600,000

The Catawba Dam Embankment Seismic Stability Improvements (ESSI) is a component of the Bridgewater Hydroelectric Development which was constructed close to 100 years ago. The facility falls under the Federal Energy Regulatory Commission and the project is being constructed to satisfy requirement imposed by FERC in order to return to service. These requirements were fulfilled by resurfacing and extending the existing spillway, adding a buttress and wing wall, and upgrading the minimum flow release system. There were two batch plants on site to produce the required concrete for these improvements. The major work activities associated with this project consisted of foundation cleaning, dental/leveling concrete placement, RCC placement, spillway demo/resurfacing, and conventional concrete placement.

**Repair/Alter Storm Water System Phase II - Big Lake Dam; GA**

Client: Dobbins AFB;

Contract Value: \$1,100,000

The Big Lake Dam project was a rehabilitation project. The existing dam was built in 1906, and over time, water had undermined the stability of the structure. ASI coordinated with the Owner and Engineer to design a RCC gravity buttress of the existing dam. The new RCC dam provides



additional stability and protects the area from potential flooding. In addition to designing and constructing the new dam, ASI personnel also conducted value-engineering to ensure the owner met their target budget without compromising the integrity and appearance of the dam.

**Genesee Dam # 2 Project; CO**

Client: Genesee Water and Sanitation District;

Contract Value: \$6,100,000

Work included construction of 95 foot tall by 550 foot long RCC dam with principal riser tower and outlet conduit and appurtenant structures. Project consisted of the construction of a new 95-ft-tall by 550-ft-long RCC gravity dam with principal riser spillway and outlet conduit and appurtenant structures. The project required 40,000 CY dam foundation excavation, development of on-site quarry, crushing and screening of 70,000 tons RCC aggregate, on-site production of 34,500 CY RCC and 5,000 CY conventional concrete. The project was located in steep mountain canyon that significantly impacted construction operations and sequencing.

**Dry Creek Reservoir Enlargement; Berthoud, CO**

Engineer: Boyle Engineering Corporation;

Contract Value: \$2,800,000

Construction of 12,500 CY RCC stepped chute emergency spillway with two cycle labyrinth weir control structure built as a monolith in a 65 ft. by 8500 ft. earthfill embankment. Work included construction of 1,850 CY reinforced concrete structures including spillway, principal outlet intake structure, outlet structure, and 36 inch diameter outlet pipe encasement.

**Franklin Dam Replacement; KY**

Client: City of Franklin, KY;

Contract Value: \$4,850,000

Project consisted of the construction of a new RCC gravity replacement dam. Project required phased river diversion, partial demolition of existing rock-filled gabion dam, and construction of a new 475 ft. long, 24 ft. high RCC gravity dam and reinforced concrete ogee spillway and stilling basin. Requires 14,000 CY earth excavation, 2,500 rock excavation, dewatering, foundation grouting, construction of 10,400 CY RCC dam and 2,000 CY reinforced concrete spillway, placement of 7,500 CY embankment and riprap, and misc site work.

**Tom Miller Dam Modernization Project; Austin, TX**

Client: Lower Colorado River Authority, Austin, TX;

Contract Value: \$10,400,000

Project Manager for stability modifications to a concrete dam and spillway constructed in 1911. Involves installation of 55 post-tensioned tendon anchors in spillway crest and dam abutment in-water. Includes installation of 207, 40' long stitch anchors in 30' deep stilling basin; demolition and reconstruction of 1100 CY of concrete in the downstream deck slabs of five gate bays; placement of 3,200 CY of mass fill tremmie concrete in the hollow core sections of the dam; and placement of 600 CY of structural concrete fill in upper hollow section of the dam. All access upstream and downstream via barges.

**Standley Lake Dam Improvement; CO**

Client: Cities of Westminster, Thornton & Northglenn, CO;

Contract Value: \$32,500,000

Excavation of 1.2 million CY of spillway channel and construction of embankment stability berm. Twin 72 inch diameter microtunnel wet taps of the existing reservoir. (drives of about 650 ft. and 1,220 ft. at depths of about 50 ft. to 80 ft. below water surface). Work included construction of two underwater intakes to 110 ft. depth; a 35 ft. diameter reinforced concrete valve shaft 100 ft. deep; 1,000 LF of 11.5 ft. diameter conventional tunnel with 102 inch diameter steel conduit; 2,750 LF of buried 102 inch steel conduit liner, 720 LF of buried 84 inch steel conduit; stream release facilities; new valve house; new spillway with concrete labyrinth weir and 26,000 CY RCC in 8 drop structures; existing outlet works abandonment; and stability berm on downstream face of existing



earth dam. Includes 28,000 CY RCC and 7,500 CY conventional concrete. Dam is 90 ft. high, with a crest length of 8,500 ft.

**Willamette Temperature Control Diversion Tunnel, Lake Tap and Gates at Cougar Dam; OR**

Client: U.S. Army Corps of Engineers, Portland, OR;

Contract Value: \$12,830,000

The project involved live, wet lake tap; drilling and blasting an enlargement of the existing tunnel; removal of underwater bulkhead and replacement with a new bulkhead; placing liner concrete; and installation of four new high-pressure, bonneted gates 3 ft. by 6 ft.. Included 8,000 CY underground tunnel lining and gate chamber concrete structure.

**Wesley Seale Dam Spillway Rehabilitation; TX**

Client: City of Corpus Christi, Corpus Christi, TX;

Contract Value: \$18,190,000

A rehabilitation project that consisted of on-site producing, delivering, and placing of 72,000 CY of mass concrete and 16,000 CY of conventional reinforced concrete to stabilize the existing dam structure. Work involved river diversion, cofferdam construction, extensive dewatering, and 700 drilled wells to relieve water pressure from beneath the structures. The project also included construction of sub-drains; 45 multi-strand tendon anchors installed from floating plant; spillway gate rehabilitation and extensions; instrumentation; earthwork; roadwork; and a new administration building.

**Washakie Dam Safety Modifications; Fort Washakie, WY**

Client: Eastern Shoshone and Northern Arapaho Tribes;

Contract Value: \$3,878,000

Safety modifications to an existing earthen dam.

**Buckhorn Reservoir Expansion; NC**

Client: City of Wilson, Sims, NC;

Contract Value: \$17,540,000

Construction of a new 84,000 CY, 44 ft. high, 2,562 ft. crest length RCC dam.

**Tie Hack Dam & Reservoir; WY**

Client: City of Buffalo, Buffalo, WY;

Contract Value: \$9,440,000

Construction of new 76,000 CY RCC dam, 155 ft. high, 550 ft. crest length. The project included on-site aggregate and concrete production, new outlet works installation, and appurtenant features. Construction methods were significantly impacted by the dam's location in a steep sided canyon with no downstream access.

**Peterson Dam Rehabilitation Project; CO**

Client: City of Greeley, CO;

Contract Value: \$1,700,000

Remote high mountain replacement of existing dam with a new 10,000 CY RCC dam, approximately 70 ft. high, 230 ft. long, including construction of service spillway and outlet works.

**Littlerock Dam and Reservoir Restoration Project; CA**

Client: Palmdale Water District, Palmdale, CA;

Contract Value: \$12,500,000

The project involved buttressing and raising an existing arch buttress dam with a new, attached, conventional concrete faced RCC dam. Features included foundation rock blasting and excavation, considerable concrete demolition, high pressure water blast surface preparation of existing dam, construction of a new outlet works system, shotcreting the existing dam's upstream face, producing, delivering and placing the RCC buttress, constructing a new 320 ft. (100m) ogee spillway, and raising the existing dam. Includes 115,000 CY RCC and 25,000 CY conventional concrete.

**New Elmer Thomas Dam; Lawton, OK**

Client: U.S. Fish & Wildlife Service, Denver, CO; Contract Value: \$4,100,000  
Construction of a new RCC Dam and appurtenant features including 40,000 CY of RCC with vertical formed upstream face and sloped formed downstream face; approx. 200 ft. of gallery; steel pipe outlet; a 55 ft. intake tower; sluice gates; 25,000 CY of drilled/shot rock excavation; and a 55 ft. inlet tower with high-head sluice gates.

**Morris Sheppard Dam, Possum Kingdom Reservoir; Waco, TX**

Client: Brazos River Authority, Waco, TX; Contract Value: \$6,700,000  
Rehabilitation of existing slab and buttress concrete dam. Project involved batching and placement of 90,000 CY of ballast concrete.

**Comanche Dam, Rustic, CO**

Client: City of Greeley, CO; Contract Value: \$1,875,000  
Reconstruction of Comanche Dam to include zoned earth embankment, new outlet works installation, and new 5,000 CY RCC spillway construction.

**Quail Creek South Dam; St. George, UT**

Client: Washington County Water Conservancy District; Contract Value: \$5,500,000  
Construction of 165,000 CY RCC dam with a conventional concrete, vertical upstream face and outlet tower.

**New Mexico Highway Bridge No. BRS 1519 (4); Rio Arriba County, NM**

Client: New Mexico Dept. of Highways; Contract Value: \$908,000  
Construction of 160 ft. two span, concrete girder bridges over the Chama River.

**Arkansas River and Colorado Canal Bridges; Pueblo, CO**

Client: Pueblo County, CO; Contract Value: \$833,000  
Three span, concrete girder bridge over Arkansas River and single span bridge over canal.

**Humphrey's Dam Rehabilitation; Creede, CO**

Client: ECI, Denver, CO; Contract Value: \$755,300  
Winter-time rehabilitation of concrete, thin arch dam at remote site.

**Stagecoach Dam and Reservoir Project; Oak Creek, CO**

Client: Upper Yampa Water Conservancy District; Contract Value: \$5,600,000  
Construction of new 50,000 CY RCC dam and reservoir. Included construction of 0.9 MW power plant and associated 72 inch and 42 inch outlet works. Dam is 150 ft. high with a crest length of 450 ft.

**Lower Chase Creek Dam; AZ**

Client: Phelps Dodge Corp., Morenci, AZ; Contract Value: \$2,000,000  
A 59 ft. high RCC dam built for a leachate reservoir. The 30,000 CY dam project was completed in 90 days.

**Gunnison County Airport Runway Extension ; CO**

Client: Gunnison County, Gunnison, CO; Contract Value: \$1,300,000  
A 2,000 ft. extension to existing runway to accommodate commercial air traffic. The location required extensive dewatering of perched groundwater.



**Grindstone Canyon Dam; NM**

Client: Village of Ruidoso, NM;

Contract Value: \$7,500,000

Construction of new 117,000 CY RCC dam, 130 ft. high, with a crest length of 1300 ft. Project included 250,000 CY quarry blasting.

**Riverside Slide Snowshed; Red Mountain Pass, CO**

Client: Colorado Dept. of Highways, Denver, CO

Construction of a new reinforced concrete snowshed to deflect avalanches from the roadway. This project featured 30,000 CY of rock excavation and 30,000 CY controlled blasting.

**Middle Fork Dam; CO**

Client: Exxon Company USA, Parachute, CO;

Construction of new 50,000 CY RCC dam. ASI's first RCC dam and the second in the United States.

**Wolf Creek Snowshed; Wolf Creek Pass, CO**

Client: Colorado Dept. of Highways, Denver, CO

Rehabilitation of existing snow shed. This project featured hand excavation of supporting caissons.

**Granite South Project No. FC 024-1(21); Granite, CO**

Client: Colorado Dept. of Highways, Denver, CO

Construction of existing two-lane mountain highway. Project included extensive rock excavation and controlled highway blasting.

**Highway Bridge Replacement; CO**

Client: Federal Highway Administration, Gunnison County, CO

The replacement of three bridges along the Taylor River. To minimize the impact on tourist traffic, these bridges were completed in the autumn.

**Texas Creek Bridge Replacement; CO**

Client: Colorado Dept. of Highways, Denver, CO

Rehabilitation of existing double-wide bridge and associated roadwork.

**Railroad Underpass; CO**

Client: C & S Railroad, Pueblo, CO

Erection and backfill of ARMCO pear-shaped, steel underpass structure. The 300 ft. X 29 ft. multi-plate was completed in the winter of 1982.

**No. 6 Crusher Facilities, Climax Mine Site; CO**

Client: Climax Molybdenum Co., Climax, CO;

Contract Value: \$19,600,000

Complete installation of open pit crushing facility including an 84 inch gyratory crusher, twin 60 inch standards, conveyor systems, and dust collection. Project located at 11,500 ft. elevation.

**Mayflower Decant Line, Climax Mine Site**

Client: AMAX, Climax Molybdenum Co., Climax, CO;

Contract Value: \$1,350,000

Concrete encasement of twin 42 inch steel pipeline for tailings dam at Climax Mine near Leadville Colorado. This project featured installation of 2,200 ft. of steel pipe and the placement of 6,000 CY of reinforced concrete.

**Truck Wash Facility, Climax Mine Site**

Client: AMAX, Climax Molybdenum Co., Climax, CO

Completion of a washing facility for open pit trucks at the Climax Mine. The building site was located at an elevation of 11,600 ft.

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**PROFESSIONAL EXPERIENCE:**

<b>December 2005 to Present</b>	<b>ASI Constructors, Inc.; Pueblo West, CO</b> Construction Manager Superintendent
<b>April 1987 to 2005</b> 1991 to 2005 1987 to 1991	<b>ASI RCC, Inc., Buena Vista, Colorado</b> Vice President General Superintendent
<b>June 1977 to July 1987</b>	<b>Avery Structures, Inc., Buena Vista, Colorado</b> Construction Manager
<b>1971 to 1977</b>	<b>Climax Molybdenum Mine, Climax, Colorado</b> Member of Load and Production Crew (blasting)





**DUSTIN BENNETTS, P.E.**  
Project Sponsor

**YEARS WITH FIRM:** Since 2014    **TOTAL YEARS OF INDUSTRY EXPERIENCE:** Since 2003

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**KEY QUALIFICATIONS:**

As a Project Sponsor with ASI, Mr. Bennetts is responsible for assisting with the management of field operations on large scale multi-disciplined construction projects. He is to coordinate with and manage company craft personnel, subcontractors, inspectors, engineers and owners to maintain safety, schedule, profitability, and client satisfaction. He also oversees and provides management for assigned crews.

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**PROFESSIONAL LICENSES & EDUCATION:**

Colorado School of Mines, Golden, Colorado  
Bachelors of Science Degree in Engineering, Civil Specialty, with a Minor in Economics and Business, May 2003, Cum. GPA: 3.854 / 4.000  
Licensed PE in CO, WY, MT, UT, ID, NM, AZ, NV, OR, WA, AK, and HI.  
Alaska P.E. CE-13031

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**PROFESSIONAL TRAINING & AWARDS:**

Tensar Awards: 2005 "Rising Star", 2006 "Circle of Honor"

Bullet Proof Manager (BPM) Training; Professional Selling Skills (PSS) Training; Persuasive Presentation for Sales Professionals (PPSP) Training; Professional Sales Negotiations (PSN); and Professional Sales Coaching (PSC) Training

Member American Society of Civil Engineers (ASCE); Colorado Association of Geotechnical Engineers (CAGE); and American Railway Engineering and Maintenance-of-way Association (AREMA)

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**EXPERIENCE RECORD:**

**ASI Constructors, Inc., Pueblo West, CO**

09/2014 – Present, Project Sponsor

Responsibilities include managing foremen and crews effectively. Assist in the development of short interval schedules. Manage timekeeping and daily task planners. Ensures the implementation of daily tool box meetings to discuss safety, quality and productivity and then practice and manage safety on the project site and with teams. Also manages equipment utilization. Reads and understand plans, specifications. Plan the project so as to minimize delays, maximize efficiency and ensure a smoothly run project. Assists in developing the project

schedules, CPM schedules, short interval scheduling, indirect labor schedules and equipment schedules. Assist with scheduling and coordination of subcontractor activities. Order and coordinate deliveries, handling, storage, inspections, and placement of materials and equipment on the job site with vendors. Monitor task/project progress and adjust schedules, work crews, and deliveries and adjust these as required. Ensures that all project reporting and documentation is completed in a timely manner. Mr. Bennetts is also responsible for ensuring that all required reporting (daily logs, time sheets, injury and accident reports) are completed on schedule.

**Green River Raw Water Reservoir; Green River, WY**

Client: Green River–Rock Springs–Sweetwater City, Joint Powers Water Board

Contract Value: \$15,548,882

Duration: 4/01/15 - 7/31/16 (est.)

Project Sponsor. The Project consists of the construction of an approximate 350 acre foot Raw Water Reservoir upgrading of the existing JPWB Water Treatment Plant in Green River, WY, with primary element general construction components as follows: Approximately 320,000 CY of mass excavation, including rock and unclassified; Approximately 200,000 CY of dam embankment construction, including filter drains; Approximately 26,000 CY of soil cement step, slab, plate and wall; Approximately 2,200 CY of cast-in-place concrete reservoir inlet and outlet structures, and drainage control structures; Approximately 50,000 CY of smooth and textured geomembrane reservoir lining; Installation of approximately 3,300 LF of exterior 30" and 36" PVC Reservoir supply and discharge piping, including connections to the existing system; Interior Pump and 30" Steel Piping Modifications to the existing River Intake Structure; Secondary project components include normal project administration, reservoir instrumentation, roadway and bridge construction, fencing and security, irrigation systems, and seeding and reclamation.

**Lockport Pool Major Rehabilitation, Stage 1C, Forebay Wall Project, Phase I (IL)**

Owner: USACE

Contract Value: \$31,913,113

Duration: 09/2014 - Ongoing

The work for the Lockport Pool Major Rehabilitation, Stage 1C, Forebay Wall Project, Phase I located in Lockport, Will County, Illinois includes the following: Mobilization and demobilization; clearing and grubbing of trees and vegetation; installation of new temporary conduit; removal of existing communication cable and conduit; removal of existing chain-link fencing and gates; removal of existing flagpole, turbine and stone wall appurtenances; removal of existing guardrail; construction of temporary construction access road with processed rock fill and rock surfacing; installation of jersey barriers; removal, salvaging, processing and stockpiling of existing stone retaining wall; excavation, processing and stockpiling of existing rock fill embankment; construction of secant pile shoring wall; excavation, processing and stockpiling of existing bedrock; placement of dental concrete; placement of roller-compacted concrete (RCC) for construction of an RCC wall; installation of a seepage control drainage system with perforated and solid PVC pipe and manholes; placement of Portland cement concrete (PCC); placement of impervious fill material; placement of processed rock fill; construction of two secant pile cutoff walls; installation of observation wells; construction of maintenance garage with concrete foundation and slab; construction of a new lower access road with processed rock fill, granular subbase, and RCC pavement; placement of granular subbase and ACC pavement; reinstallation of existing chain-link fencing; installation of new chain-link fencing; installation of new guardrail; removal of existing and installation of new electrical and associated items; removal of existing onsite structures including maintenance garage, concrete cinder tower, and light tower; and reinstallation of existing flagpole, turbine, and stone wall appurtenances; and disposal of excess material.



**Clear Lake Dam Replacement; CO**

Owner: Xcel Energy

Contract Value: \$6,180,000

Duration: 08/14 - Ongoing

The Clear Lake Dam is located in Georgetown, CO and is part of the Georgetown Hydroelectric Project, owned and operated by Public Service Company of Colorado, d/b/a Xcel Energy. Clear Lake provides storage for winter-period operation of the hydroelectric plant and is also an important recreational facility in the region. Following state safety inspections, FERC expressed concerns about the dam's inadequate spillway capacity. The existing small, ungated spillway had the capability of passing the estimated 50-year flood prior to the dam being overtopped. Overtopping of Clear Lake Dam during a large flood could result in dam failure. The project consists of the removal of the existing embankment dam and the construction of a new RCC dam in the same location.

**Arkansas River Levee Improvements - Phase I; CO**

Owner: Pueblo Conservancy District

Contract Value: \$3,603,740

Duration: 11/2014 - 03/2015

The project involves the remediation / reconstruction of approximately 3,300 linear feet of the existing Arkansas River Levee from the 11th Street Bridge to the southeast. The current levee consists of an existing earthen embankment approximately 40' tall which is faced with reinforced concrete approximately 10" thick. The Phase One project includes lowering of the existing embankment by approximately 12' and removing and replacing all reinforced concrete facing and foundations, complete with all incidentals of construction. 2.5 miles of Levee work, including repairing and/or replacing the plinth (the footing at the toe of the levee); replacing all or a portion of the concrete panels; repairing and/or replacing the small parapet wall at the crest; fixing portions of the embankment underlying the panels; maintaining (not damaging) the existing step pools.

**Tensar International Corporation; Broomfield, CO**

**District Manager (West), Grade Separation Solutions**

03/2011 – 09/2014

Engineer of Record: Licensed Professional Engineer in 12 western states; act as Tensar Engineer of Record (EOR) on Grade Separation Solution projects including mechanically stabilized earth retaining walls and reinforced soil slopes.

Supervise: Manage a team of four direct reports consisting of Regional Sales Managers and Project Managers, and indirectly manage four other Engineers and CAD operators.

Oversee: Responsible for a target goal of \$6 million of revenue per year for the district.

**Regional Manager (Rocky Mtn. Region), Grade Separation Solutions**

03/2007 – 03/2011

Project Procurement: Responsible for generating \$3 million of revenue per year for a four state territory through direct sales and distribution. Find and process new leads to generate new project opportunities.

Train & Motivate Distribution: Work with existing distribution and seek new distribution to better promote Tensar products.

Promotional Presentations: Give technical presentations to contractors, owners, engineers, and architects to find new opportunities, generate customer loyalty, and solidify project specifications. Attend Trade Shows and conduct Engineering Seminars to promote products and services.

Forecasting Accuracy: Provide monthly, quarterly, and yearly forecasts for expected sales and production.

**Project Manager**

04/2005 – 02/2007

Project Management: Coordinate proactive solutions to a variety of issues during the design and construction processes between Tensar designers and various customers and contractors. Managed \$6 million of Tensar project revenue per year.

Project Startup: Generate amenable project budgets for design services, construction management services, and materials. Set-up material deliveries, coordinate delivery schedules, and invoice for materials. Provide site assistance at the start of installation and supervise for conformance to drawings, specifications and industry standards.

Change Orders: Negotiate time and financial change orders that modify the original scope of the project Purchase Order Contract.

Technical Assistance: Assist customers with technical questions regarding Tensar systems.

Innovation: Provide original ideas for future expansion, more efficient production, and maintain assorted standards within Tensar.

**Staff / Design Engineer**

04/2004 – 03/2005

**ASI RCC, Inc.; Buena Vista, CO**

**Wolf Creek Tunnel Lining (CO)**

Client: Colorado Department of Transportation, Denver, CO      Contract Value: \$12,200,000

Duration: 02/2003 – 11/2004

Project Engineer: The project consisted of the construction of 6,000 CY of reinforced concrete final lining and portal structures for 916 LF of 42' x 27' highway tunnel. The project included the following work items: rock reinforcement and 9,500 SY PVC membrane waterproofing; final lining of 220 LF 10' horseshoe adits; construction of tunnel mechanical control building; installation of special tunnel electrical systems; lighting systems; fire protection systems; ventilation systems; de-icing systems; tie-in of tunnel to existing roadway ROW; earthwork; drainage structures; 4,750 SF MSE walls; HBP paving; guardrail; signage and striping. The work was performed at 9,100' elevation on Wolf Creek Pass in winter months (March-November 2003).

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**PROFESSIONAL EXPERIENCE:**

**September 2014– Present**

**ASI Constructors, Inc.**

Project Sponsor / Senior Project Manager

**April 2004 – September 2014**

**Tensar International Corporation**

District Manager

Regional Manager

Project Manager

Staff / Design Engineer

**June 2003– April 2004**

**ASI RCC, Inc.**

Project Engineer



**Del A. Shannon, P.E.**  
Design Manager

**YEARS WITH FIRM:** Since 2009

**TOTAL YEARS OF INDUSTRY EXPERIENCE:** Since 1990

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**KEY QUALIFICATIONS:**

Del A. Shannon has 25 years of experience working in the civil, geotechnical, and environmental engineering field, with most of the experience working on dam safety and dam design. He has been involved as the Engineer of Record, Project Manager, Construction Manager and Project Engineer on a wide variety of embankment and concrete dams. Del regularly contributes his expertise to local, national and international committees; most recently serving on the Roller Compacted Concrete and Dam Type Selection Committees for the International Commission on Large Dams (ICOLD). He also serves on the Geotechnical Engineering and Design/Build Subcommittees for the US Society on Dams and the Association of State Dam Safety Officials. He regularly contributes technical papers, white papers and technical bulletins to all of these organizations. He has been invited to give dam related presentations internationally, including China in 2008 where he participated in dam safety inspections of dams damaged during the Wenchuan Earthquake, in 2010 was invited to give a presentation to the British Dam Society 2010 annual conference on the United States dam safety rules and regulations, and in June 2015 he will give a presentation on the utilizing the design/build approach to new dam design and construction at the ICOLD conference in Norway.

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**PROFESSIONAL LICENSES AND EDUCATION:**

M.S., Civil Engineering, University of Colorado, 1993  
B.A., Communications, Pacific Lutheran University, 1989

Professional Registration:  
PE – 2002, Colorado  
NCEES, #26644

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**PUBLICATIONS:**

- "Dam Damage: Evaluating and Learning From the Wenchuan Earthquake's Impact to China's Dams," Proceeding, 2009 Technical Committee on Lifelines for Earthquake Engineering (TCLEE)
  - "Reconstructing River Reservoir No. 3 – From Emergency Action to Breach to Safe Operation in 21 Months," Proceedings, 2007 Association of State Dam Safety Officials Annual Conference.
  - "Successful Application of the Design/Build Approach at Pine Brook Dam," Proceedings, 2006 United States Society on Dams Annual Conference.
  - "Big Easy Levee Design: Proposed Improvements to the Existing 17th Street, and London Avenue Canal Levees," Proceedings, 2008 Association of State Dam Safety Officials Annual Conference.
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**EXPERIENCE RECORD:**

**Water Diversion and Dewatering, Multiple Projects**

Design Engineer – Del performs both designs and reviews the design of others for all ASI projects requiring water diversion and dewater elements. He has designed water diversion and dewatering



features for the Pueblo Dam Southern Delivery Pipeline Connection, Pueblo, CO; Beaver Park Dam, South Fork, CO; Lake Roberts Dam, Silver City, NM; Lake Ogletree Dam, Auburn, AL; Duck River Dam, Cullman, AL; and many others.

**Howe Haller A & B Reservoirs, Denver, CO**

Project Manager - Denver Water's Howe Haller A & B Reservoirs were significantly damaged in the September 2013 floods. The embankments containing these reservoirs were overtopped by flood waters from the South Platte River. Del evaluated the risk of future damage to these reservoirs and provided conceptual design alternatives, constructability reviews, and budget level cost estimates for several alternatives to protect these reservoirs from future flood damage. The results of this work were utilized by Denver Water to advance a roller compacted concrete embankment armoring option and secure \$8 million in funding for future construction activities.

**Preconstruction Test Quarry, Gross Dam Raise; Boulder, CO**

Project Manager - Responsible for developing a test quarry and evaluating the suitability of utilizing onsite materials for the use as both coarse and fine concrete aggregates for the 130 foot high raise of Denver Water's Gross Dam to a new height of 460 feet. The Environmental Impact Statement assumed fine aggregates, comprising approximately 350,000 tons of material, would be imported to the site from offsite quarries. Local residents objected to this alternative because of the large volume of truck traffic (over 16,000 truckloads were required to import this material) and questioned if all construction aggregates could be generated onsite. Del established blasting and excavation programs, transportation of bulk aggregates to a crushing site, coordinated crushing activities and segregation of aggregates by size, and the development of roller compacted concrete mix designs to evaluate the ability of aggregates to achieve anticipated strengths. This program showed that all coarse and fine aggregates for RCC production can be produced onsite, which will likely reduce the overall project costs by \$5 million and dramatically reduce construction related impacts to area residents.

**Cabresto Dam Rehabilitation Project, Questa, NM**

Project Manager for the pre-construction of the Cabresto Dam Rehabilitation Project. Cabresto Dam has experienced significant seepage issues in recent years and has an undersized spillway (the probably maximum flood will significantly overtop the dam), and as a result of these deficiencies the New Mexico Office of the State Engineer placed the dam under a significant restriction. The decision was made to breach the existing dam and construct a new dam 160 feet downstream. The new dam will be a zoned embankment dam with a roller compacted concrete spillway constructed directly over the embankment. ASI was awarded this project in the spring of 2011 and since then we have been working directly with the designer – RJH Consultants – and the NM Office of the State Engineer to redesign several elements, provide constructability review and cost estimates of these redesigned elements, with the intent of reducing the overall cost of the project. To date the combined redesign efforts of ASI, RJH and the NM OSE working together have reduced the overall project costs by over \$1 million from the original bid of \$6.3 million.

**Cotter Dam Enlargement, Canberra, Australia**

Project Manager – Responsible for the overall management and oversight of the aggregate transportation, aggregate cooling, roller compacted concrete batching, and RCC transportation for the 260-foot-high Cotter Dam Enlargement Project in Canberra, Australia. The Australia Capital Territory Electric and Water (ACTEW) is enlarging their water supply and water infrastructure program and is replacing the existing 100-foot-high Cotter Dam with a much larger structure approximately 1000 feet downstream. Significant and sustained droughts in Australia have prompted this expansion.



**Pine Brook Dam and Reservoir Design, Boulder, Colorado**

2007 Award of Excellence from United States Society on Dams (USSD)

Engineer of Record - Responsible for design of the Pine Brook Dam and Reservoir located in the Pine Brook Hills subdivision, near Boulder, Colorado. The Pine Brook Dam and Reservoir is one of the first dam projects in Colorado to utilize the design-build approach. Assisted in providing final design services for this roller compacted concrete dam. The dam is approximately 90-feet high, with a capacity of 100 acre-feet, and will be used as a raw water supply reservoir for the 400-home subdivision, with its own water supply treatment and distribution system. The design was initiated in January 2005 and construction of the dam was completed 18 months later in June 2006. The design and construction innovations realized for this project saved over \$3 million when compared to projects of similar size and scope.

**Bullard Creek Roller Flood Retarding Structure (FRS), Lakeview, Oregon**

Geotechnical Engineer - Responsible for the alternatives evaluation and final design of the 55-foot-high, 300-foot-long Bullard Creek roller compacted concrete dam located near Lakeview, Oregon. Responsibilities included the evaluation of several design alternatives and preparation of design drawings, specifications, and the final design report. The design utilized multiple elements from the Natural Resources Conservation Service's (NRCS) Flood Retarding Structure (FRS) design standards.

**Potential Failure Mode Analysis (PFMA), Palmetto Bend Dam, Edna, Texas**

Lead Engineer/Dam Safety Engineer - The Palmetto Bend Dam, originally designed and constructed by the US Bureau of Reclamation in 1976 and 1977 and now owned and operated by the Lavaca Navidad River Authority (LNRA), is an earthfill dam constructed across the Navidad River Valley, approximately 7 miles southeast of Edna, Texas. The dam is comprised of a main embankment approximately 1.3 miles long and associate dikes totaling 6.6 miles in length. The reservoir created by the Palmetto Dam has total capacity of 170,310 acre-feet of water. Shortly after construction sand boils and seepage were noted downstream of the main dam embankment. These seeps and boils have experienced intermittent flow over the years, but some have persisted since construction. The PFMA identified that these seeps and boils were not a critical dam safety feature of this dam and only minimal remediation measures were required to address these concerns.

**Sourdough Creek Dam, Bozeman, Montana**

Deputy Project Manager - Responsible for the technical oversight and management of the planned 200-foot-high roller compacted concrete Sourdough Creek Dam for the City of Bozeman, Montana. Bozeman does not have any raw water storage capacity and the Gallatin Valley is rapidly growing and water demand will soon outstrip current supply abilities. The project is in the conceptual phase with a comprehensive public involvement and communication plan being the first step of the project. Planning and environmental permitting will be the next task, followed by preliminary and final design. The new dam will store approximately 6,500 AF and will take approximately 10 years to complete.

**China Dam Safety Review, American Society of Civil Engineers, Technical Committee on Lifelines for Earthquake Engineering (TCLEE)**

Lead Dam Safety Engineer - Responsible for performing onsite inspections of several dams damaged by the M7.9 Wenchuan earthquake. This earthquake, which struck the Sichuan region of China on May 12, 2008, killed nearly 80,000 people and damaged a large number of civil infrastructure elements of the region. Del was invited to join the TCLEE group that traveled to China in October 2008 to inspect this damage, review China's dam safety rules and regulations, and provide recommendations for future activities. Del gave several dam safety presentations during this trip to technical organizations and universities in China. The results of this inspection and resulting research will be published in a monogram in late 2009.



**Wolf Creek RCC Replacement Dam Study, USACE Nashville District, Russell Springs, Kentucky**

Project Engineer - Responsible for providing engineering analyses and cost estimating expertise evaluating the feasibility of constructing a new roller compacted concrete (RCC) dam directly downstream of the existing dam. Wolf Creek Dam retains the largest reservoir in the United States east of the Mississippi River. This 6 million acre-foot facility has experienced significant seepage issues since the late 1960's, when a foundation piping issues nearly caused the dam to fail. In the mid-1970's a cutoff wall and foundation grouting program was installed in the embankment portion of the dam and is widely credited with saving the dam from catastrophic failure. However, the foundation problems at Wolf Creek have persisted. At over 3 million cubic yards, this would be the largest RCC dam in the United States.

**Rio Valenciano Dam, Design Review, Juncos, Puerto Rico**

Project Engineer – Responsible for reviewing and providing comments for the planned Rio Valenciano roller compacted concrete dam (RCC). The 125-foot-high dam will be constructed on the Rio Valenciano River in northeast Puerto Rico as a municipal water supply dam and reservoir for the Puerto Rico Aqueduct and Sewer Authority (PRASA). Comments were provided for three bid packages: site clearing, excavation and borrow; 60% design and 90% design.

**Elwood Dam Modifications, Platte River Recovery Implementation Plan, Kearney, Nebraska**

Lead Dam Engineer – Responsible for coordinating and performing the engineering analyses surrounding the planned modification of Elwood Dam. Elwood Dam is an off stream reservoir with a storage capacity of approximately 40,000 AF. The current plan is to deliver short term high capacity flows to help regenerate habitat along the Platte River for threatened and endangered species. These flows would be on the order of approximately 5,000 cfs and a portion of this water – between 1,000 and 2,000 cfs – would be released from Elwood Reservoir. The current capacity for releases from Elwood is 350 cfs and significant modifications are required to achieve the new target release rate. A new outlet works and modifications to the upstream slope to ensure embankment stability during rapid drawdown are required.

**Camanche Dam, Dam Safety and Internal Erosion Evaluation, Stockton, California**

Project Manager/Lead Dam Safety Engineer – Responsible for performing dam safety and internal erosion risk analyses work for Camanche Dam, located near Stockton, California, for the East Bay Municipal Utility District (EBMUD) in Oakland, California. Camanche Dam is comprised of a 170-foot-high zoned embankment dam and six perimeter dikes of varying heights, has a total crest length of 4.4 miles, and stores over 400,000 acre-feet of water. Shortly after completion of construction in the early 1960's, the dam began experience significant seepage issues through the pervious sandstone foundation, issues which have been resolved with relief wells, slurry wall cutoffs, downstream drainage features, and other remedial activities. However, no studies have evaluated the risk of internal embankment erosion and piping due to these adverse seepage conditions. Black & Veatch will be evaluating the risk of internal erosion and its impact on the safety of this dam with state of the practice methodology and procedures, as well as recommending design features to correct these concerns if discovered.



**Cost Estimates, Portugues Dam, Ponce, Puerto Rico**

Lead Geotechnical Engineer - Responsible for preparing cost estimates for the roller compacted concrete, foundation grouting, and dam instrumentation estimates of probable costs for this Corps of Engineers designed dam. The 220-foot-high dam will be located on the Portugues River approximately five miles north of Ponce and will provide flood protection for the area downstream of the dam. Due to the limited availability of construction materials and skilled labor on the island of Puerto Rico, a majority of these items will likely be required to be imported.

**Aurora, Quincy and Rampart Dam Safety Inspections, Aurora, Colorado**

Lead Dam Safety Engineer – Responsible for performing on-site inspection of the Aurora, Quincy and Rampart Dams, owned and operated by the City of Aurora, Colorado and generating a letter and inspection documentation for each dam. Specific dam features inspected include the upstream and downstream slopes, the crest, drains and seepage collection features, outlet works, spillways, reservoir rim, instrumentation, and all other dam features relating to dam safety. This dam safety program is the first formal program by the City of Aurora and is an important aspect of ensuring the City of Aurora dams continue to perform safely and provide their citizens with safe sources of water.

**Comprehensive Facility Review, Mann Creek Dam, Weiser, Idaho**

Senior Engineer - Responsible for leading the Comprehensive Facility Review (CFR) of the 150-foot high zoned earthfill Mann Creek Dam for the Bureau of Reclamation. The Bureau of Reclamation performs CFR's for each of their dams every 6 years to evaluate their condition, evaluate potential failure modes, and provide recommendations for maintenance and structure improvements. Responsibilities as Senior Engineer included primary authorship duties for the CFR document and directing the work of seismic engineers, hydrologic and hydraulic engineers, geotechnical engineers, mechanical engineers, and instrumentation engineers performing the evaluation of the dam and reservoir.

**C.W. "Bill" Young Dam, Tampa, Florida**

Advisory Engineer – Part of a team of experts evaluating the cause and potential remediation alternatives of significant cracking and movement of the soil cement upstream facing system. Since it was completed and filled in 2005 the upstream facing system has experienced ongoing and progressive cracking that continues to this day. The cause of this cracking is unknown and is currently being investigated. Currently the dam is under a significant reservoir restriction until the cause of the cracking is identified and repair alternatives are identified and implemented.

**Walnut Creek Dam, Anaheim, California**

Geotechnical Engineer – Responsible for evaluating and providing geotechnical design recommendations to improve the performance of the upstream facing system at the Walnut Canyon Dam. The existing facing system, installed in the mid-1960's, has reached the end of its useful life and is being replaced. After draining of the reservoir unfavorable conditions were discovered and design modifications to the planned upstream facing system were required. Del provided geotechnical engineering recommendations to improve the performance of this facing system by recommending internal drainage systems that effectively reduce the internal pore pressures that may develop behind the upstream facing system.

**Deficiency Verification Analysis, Red Lake Dam, Navajo Indian Reservation, New Mexico**

Lead Engineer - Responsible for performing a Deficiency Verification Analysis (DVA) evaluating numerous known and previously unknown deficiencies and dam safety issues associated with the Red Lake dam, located on the Navajo Indian Reservation. The Red Lake Dam is owned and operated by the Bureau of Indian Affairs (BIA) and is an approximately 30-foot high homogenous earthen dam storing approximately 12,000 acre-feet of water. It was initially constructed in the late 1800s and enlarged in 1953. The dam has performed marginally, with large concerns surrounding



the seepage conditions, since its enlargement and currently a reservoir restriction has been imposed to help improve the safety of the dam. The DVA helped the BIA and the Bureau of Reclamation (the supporting government agency) select a design alternative to improve the safety of this dam and reservoir.

**Everglades Agricultural Area (EAA) Reservoir A-1, Everglades, Florida**

Project Engineer - Project includes preliminary design, final design, and construction management services for the 190,000 acre-foot Everglades Agricultural Area (EAA) reservoir. Features of dam and appurtenant structures include dam in excess of 20 miles in length, new 3,000 cfs pump station and modifications to existing 2,775 cfs pump station, two, 3,000 to 4,500 cfs discharge structures, gated emergency spillway structure, and modifications to existing distribution canals. The EAA reservoir is designed to improve the timing of environmental water supply deliveries, reduce Lake Okeechobee regulatory releases, meet supplemental agricultural irrigation demands, and increase flood protection within the EAA. Construction will begin in the summer of 2007.

**River Reservoir No. 3 Dam Rehabilitation, Greer, Arizona**

Project Manager - Responsible for the design and construction of the rehabilitation of River Reservoir No. 3 Dam which experienced a dangerous piping condition that required an emergency drawdown of the reservoir elevation. The designed improvements to the dam included removing an approximate 200-foot-long section of the embankment, repairing the drain that collapsed and caused the near piping failure, and replacing the embankment with the same material that was removed.

**Green Ridge Glade Reservoir Expansion, Loveland, Colorado**

Project Engineer - Responsible for the feasibility study, geotechnical engineering, and evaluation of alternatives for the expansion of Green Ridge Glade Reservoir. Responsibilities included managing and coordinating the feasibility study and report and evaluating several raise and new dam alternatives including earthfill, rockfill, and roller compacted concrete dams. From this report, a 55-foot-high downstream raise option was selected to expand the capacity of the reservoir. The feasibility report was submitted and approved for \$3 million in funding by the Colorado Water Conservation Board.

**Feasibility Study, Leyden Gulch Dam, Golden, Colorado**

Staff Geotechnical Engineer - Responsible for the evaluation of alternatives and preparation of a feasibility study and report for the Leyden Gulch Dam, located in Leyden Gulch, approximately 8 miles north of Golden, Colorado. Alternatives evaluated for the dam ranged from a 190- to 300-foot-high dam storing between 30,000 and 60,000 acre-feet of water. Onsite borrow is limited to highly plastic clays. If the dam was constructed as originally designed, it was to be the highest earthfill dam in the world constructed with this type of highly plastic clay.

**Lake Meredith Reservoir Expansion, City of Colorado Springs and City of Aurora, Ordway, Colorado**

Project Engineer - Responsible for the evaluation of alternatives and preparation of a feasibility study and report for the Lake Meredith Reservoir expansion. Lake Meredith, located in southeastern Colorado near the small town of Ordway, stored 40,000 acre-feet of water. An alternative considered to enlarge the reservoir ranged from a 13- to 25-foot-high earthfill embankment raise, which would create between 60,000 and 160,000 acre-feet of additional onsite storage. The Lake Meredith Reservoir is jointly owned by the City of Colorado Springs and the City of Aurora.

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**PROFESSIONAL ASSOCIATIONS:**

US Society on Dams (USSD), Geotechnical Subcommittee, Design-Build Subcommittee  
Association of State Dam Safety Officials (ASDS), Geotechnical Committee Member Responsible  
for Updating Colorado State Dam Safety Regulations, 2005-2006  
American Society of Civil Engineers (ASCE)

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**PROFESSIONAL EXPERIENCE:**

<b>December 2009 to Present</b>	<b>ASI Constructors, Inc., Pueblo West, Colorado</b> Design Manager
<b>2007 to 2009</b>	<b>Black &amp; Veatch, Inc., Denver, Colorado</b> Regional Practice Manager: Dams, Levees and Reservoirs
<b>2004 to 2006</b>	<b>AECOM, Denver, Colorado</b> Senior Project Manager
<b>2002 to 2003</b>	<b>Tetra Tech, Ft. Collins, Colorado</b> Senior Project Manager
<b>2001 to 2002</b>	<b>Shannon &amp; Wilson, Inc., Denver, Colorado</b> Principal Geotechnical Engineer
<b>1994 to 2001</b>	<b>URS, Denver, Colorado</b> Project Engineer to Senior Project Manager

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**REFERENCES**

Keith Comstock, President  
Juneau Hydropower, Inc.  
8585 Old Dairy Road, Suite 210  
Juneau, AK 99802  
Keith.comstock@juneauhydro.com  
907-789-2775

Sharon Love, General Manager  
Kootznoowoo, Inc.  
8585 Old Dairy Rd # 104  
Juneau, AK 99801  
sharonlove65@gmail.com  
(907) 790-2992

Robert de Haas, General Manager  
Pine Brook Water District  
1903 Linden Dr.  
Boulder, CO 80304  
bob@pinebrookwater.com  
(303) 443-5394



**BRIAN LOOBY, CMSP**  
Corporate Safety Director

**YEARS WITH FIRM:** Since 2007

**TOTAL YEARS OF INDUSTRY EXPERIENCE:** Since 1989

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**KEY QUALIFICATIONS:**

Brian Looby is a safety and operations oriented management professional, with over 20 years of progressive experience in industrial, heavy civil contracting, and metal mining industries. He is capable of accomplishing project goals through effective teamwork and safety management programs. He has a strong communication, training, and organizational background.

Mr. Looby has outstanding leadership and analytical abilities. He also has excellent written and verbal communication skills developed through interaction with all levels of command. Mr. Looby has successfully led a Safety Administration for 700 union craft and salaried employees, as well as performed consulting duties for senior personnel. His emphasis on metal/nonmetal mining processes, dams, and heavy/civil construction. He also has a wide background in OSHA, MSHA and NFPA regulations including specialty knowledge required by regulatory agencies. He has given training at all company levels, made inspections of work areas and issued recommendations.

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**PROFESSIONAL LICENSES AND EDUCATION:**

MSHA Certified Instructor Surface/Underground  
OSHA Construction and General Industry Instructor  
Class II Radiological Safety Certification  
SCBA and Fresh Air Certification  
Confined Spaces/Trenching Rescue Training  
Certified Mine Safety Professional

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**PROFESSIONAL AFFILIATIONS:**

Professional Member of the International Society of Mine Safety Professionals; Professional No. 279  
Member of the Executive Committee for the Joseph A. Holmes Safety Association.  
Member of the American Society of Safety Engineers

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**PROFESSIONAL EXPERIENCE:**

**ASI Constructors Inc.**

04/2010 – Present; Corporate Safety Director

Overall responsibilities include management and directing of company-wide safety program, managing Drug and Alcohol testing program, site-specific safety inspections, safety training, accident investigations, writing and administration of site-specific safety and health plans and Job Hazard Analysis (JHA) reviews. Responsibilities also include directing and aiding multiple onsite Project Safety Managers in their responsibilities at all projects. Implementation of new safety programs to help field personnel and management achieve company goals for the Safety Program. Administration of all Workman's Compensation claims with insurance carriers and adjusters. Other responsibilities include ensuring company is compliant with all federal, state and local safety related regulations and updating our written safety program as changes become necessary.



**Ozark Constructors, LLC, Taum Sauk Reservoir Rebuild Project, Annapolis, Missouri**

05/2007 – 04/2010; Safety Manager

*Ozark Constructors, LLC is a venture partnership between Fred Weber, Inc., St. Louis, MO and ASI Constructors, Inc., Pueblo West, CO.*

Key member of the project management team that directed the successful rehabilitation of the existing inoperable rockfill upper reservoir with the construction of a modern concrete faced symmetrical roller-compacted concrete (RCC) dam. Employing over 700 supervisory, engineering, and union craft personnel - National Maintenance Agreement (NMA). The Taum Sauk pumped-storage hydroelectric plant is owned and operated by Missouri's largest electrical utility, AmerenUE, a subsidiary of Ameren Corporation, St. Louis, MO. Responsible for the management of the safety and loss control programs for the project. Managed the owner controlled insurance programs for the project; in which included all subcontractors. Provide safety leadership and project management skills for the fast-track and successful rebuild of the Taum Sauk Project. Primary goal is to safely build a high quality RCC dam – utilizing modern dam design, skilled construction techniques and safe work practices – within established cost and schedule targets. Taum Sauk is currently the largest RCC dam in North America, with approximately 2.7 million yd<sup>3</sup> RCC, and 0.3 million yd<sup>3</sup> of structural concrete. Foundation excavation and aggregate crushing account for nearly 6 million tons. Substantial completion occurred in late 2009.

**Zurich Services Corporation, St. Louis, Missouri**

04/2007 – 05/2001; Risk Engineering Consultant

Provided safety management services to large construction and mining contractors. Assisted with all levels of management in the successful development of safety and loss control programs.

**Phelps Dodge Mining Company, Hurley, New Mexico**

05/2001 – 07/1997; Safety and Health Specialist

Responsible for the compliance of all Federal, State, and local safety regulations. Development and implementation of training programs and education of all employees. Interaction with regulatory agencies during inspection visits. Incident investigation and follow-up. Filing and management of Workman's Compensation and General Liability Claims. Conducted evaluations of the performance of the accident and injury prevention programs for the worksites. Collect reports required for records. Coordinator of the Underground Mine Rescue Teams

**American Girl Mining Joint Venture, Winterhaven, California**

1996 – 1997; Safety Coordinator Surface/Underground

**Leonard Construction, St. Louis, Missouri**

1995 – 1996; Safety Supervisor

Acid Train # 2 Rehab Project Magma Copper Co. San Manuel, Arizona

**Brown and Root Construction, Morenci, Arizona**

1995; Safety Supervisor

Metcalf SX/EW Project Phelps Dodge Mining Corp.

**Granite Construction Company, Watsonville, California, Santa Cruz/Watsonville Branch**

1992 – 1995; Safety Supervisor

**Herzog Contracting, St. Joseph, Missouri**

1992; Safety Engineer

Metro Link Rail System, San Bernardino, CA to Los Angeles CA

**Calmat Company, Los Angeles, California**

1991 – 1992; Corporate Safety Supervisor

**Herzog Contracting, St. Joseph, Missouri**

1989 – 1991; Consulting Safety Engineer

Metro Light Rail System Project CLO-3 Baltimore Maryland; Metro Light Rail System Blue Line Project  
Los Angeles to Long Beach, CA

**United States Navy**

1986 – 1989

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**PROFESSIONAL EXPERIENCE:**

<b>April 2010 – Present</b>	<b>ASI Constructors, Inc., Pueblo West, Colorado</b> Corporate Safety Director
<b>May 2007 – April 2010</b>	<b>Ozark Constructors, LLC, St. Louis, Missouri</b> Project Safety Manager
<b>April 2007 – 2001</b>	<b>Zurich Services Corporation, St. Louis, Missouri</b> Risk Engineering Consultant
<b>May 2001 – July 1997</b>	<b>Phelps Dodge Mining Co., Hurley, New Mexico</b> Safety and Health Specialist
<b>1996 – 1997</b>	<b>American Girl Mining JV, Winterhaven, California</b> Safety Coordinator Surface/Underground
<b>1995 – 1996</b>	<b>Leonard Construction, St. Louis, Missouri</b> Safety Supervisor
<b>1995</b>	<b>Brown and Root Construction</b> Safety Supervisor
<b>1992 – 1995</b>	<b>Granite Construction Co., Watsonville, California</b> Safety Supervisor
<b>1992</b>	<b>Herzog Contracting, St. Joseph, Missouri</b> Safety Engineer
<b>1991 – 1992</b>	<b>Calmat Company, Los Angeles, California</b> Corporate Safety Supervisor
<b>1989 – 1991</b>	<b>Herzog Contracting, St. Joseph, Missouri</b> Consulting Safety Engineer
<b>1986 – 1989</b>	<b>United States Navy</b>



**MICHAEL DARR**  
Concrete Superintendent

**YEARS WITH FIRM:** Since 2014 **TOTAL YEARS OF INDUSTRY EXPERIENCE:** Over 17 years

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**KEY QUALIFICATIONS:**

As a Concrete Superintendent Mr. Darr's responsibilities include managing foremen and 2-6 man carpenter crews effectively, assisting in the development of short interval schedules, and manage timekeeping and Daily Task Planners. He ensures the implementation of daily tool box meetings to discuss safety, quality and productivity and then practice and manage safety on the project site and with teams. He also manages equipment utilization, read and understand plans, specifications and plans the project so as to minimize delays, maximize efficiency and ensure a smoothly run project. He also assists in developing the Project Schedules, CPM Schedules, Short Interval Scheduling, Indirect Labor Schedules and Equipment Schedules. He assists with scheduling and coordination of subcontractor activities, ordering and coordinating deliveries, handling, storage, inspections, and placement of materials and equipment on the job site with vendors. He monitors task/project progress and adjust schedules, work crews, and deliveries and adjust these as required. He ensures that all project reporting and documentation is completed in a timely manner. Mr. Darr is also responsible for ensuring that all required reporting (daily logs, time sheets, injury and accident reports) are completed on schedule.

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**PROFESSIONAL LICENSES AND EDUCATION:**

CPR and First Aide Training  
OSHA 10 Hour  
Certified Rigger  
Supervisory Training Program

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**EXPERIENCE RECORD:**

**Highline Canal Diversion Dam (CO)**

Owner: Denver Water

Contract Value: \$1,270,000

Duration: January 2016 – Ongoing

The project consists of demolition of the existing timber-framed diversion dam and appurtenances; construction of the replacement timber-framed diversion dam and appurtenances; site earthwork for river bed restoration; and design, installation and maintenance of temporary river diversion and dewatering systems.

**Fort St. Vrain Auxiliary Transformer Containment Berm (CO)**

Owner: Xcel Energy

Contract Value: \$148,000

Duration: 11/2014 – Ongoing

Construct a concrete oil containment berm around an auxiliary transformer foundation at our Fort Saint Vrain plant located near Platteville Colorado.

**Fort Peck Plunge Pool (MT)**

Owner: U.S. Army Corps of Engineers

Contract Value: \$33,897,764

Duration: 02/2013 – Ongoing

Fort Peck Dam on the Missouri River was subjected to severe flooding in 2011. This required operating its spillway for approximately 4 months with peak discharges more than double the previous maximum discharge since the project was constructed in 1938. The hole scoured at the downstream end of the spillway exposed much of the cutoff structure supporting the spillway chute. There is now less than 30 feet of embedment remaining of the original 70 feet. There is a valid concern that the spillway cutoff structure is undermined. The purpose of this project is to improve the stability of the existing cutoff structure by filling a significant portion of the scour hole with Roller Compacted Concrete (RCC) and installing tieback anchors through the existing left cutoff wall. In addition, training walls will be used to facilitate placement of backfill to support the existing cutoff structure wing walls and to help divert erosive flow away from the critical locations near the intersection of the existing cutoff center wall and wing walls. Other work to be performed includes expanding a 175 foot apron length to 250-feet and 350-feet; widening the base of the training walls to facilitate future expansion; deepening the cutoff wall; constructing a reinforced concrete cap on the apron to increase longevity of the repair; and repairing concrete surface damage (spalling and cracks) on the existing spillway chute.

**Clear Lake Dam Replacement; CO**

Owner: Xcel Energy

Contract Value: \$6,180,000

Duration: 08/14 - Ongoing

The Clear Lake Dam is located in Georgetown, CO and is part of the Georgetown Hydroelectric Project, owned and operated by Public Service Company of Colorado, d/b/a Xcel Energy. Clear Lake provides storage for winter-period operation of the hydroelectric plant and is also an important recreational facility in the region. Following state safety inspections, FERC expressed concerns about the dam's inadequate spillway capacity. The existing small, ungated spillway had the capability of passing the estimated 50-year flood prior to the dam being overtopped. Overtopping of Clear Lake Dam during a large flood could result in dam failure. The project consists of the removal of the existing embankment dam and the construction of a new RCC dam in the same location.

**Beaver Park Dam Rehabilitation Phase II; Southfork, CO**

Owner: Colorado Parks & Wildlife

Contract Value: \$10,287,000

Duration: 03/2014 – 10/2015

The work consists of the following: Construction of safety measures to protect the public, workers and the Work from rockfalls originating on existing slopes outside the limits of temporary excavations; stream diversion and care during construction including maintaining the reservoir water level at or below the maximum elevation and maintaining the minimum discharge flow rate; demolition of the existing intake structure, gate house and downstream outlet pipe; excavation and removal of timber cribbing in the left abutment; construction of filter sand and gravel drain in the left abutment, including associated excavation, backfill and soil nail wall. The project has a staged sand drain system. The work also consists of widening of dam crest and reguarding of dam downstream face; construction of outlet works intake structure and associated sluice gate, air vent and hydraulic gate actuation system; construction of steel pipe liner inside existing pipe, encased cut-and cover steel pipe, and outlet structure piping, valves and appurtenances; construction of a control building and associated engine generator and solar power systems, hydraulic gate actuation control system, electric valve automation control system and all electrical, instrumentation and communication systems; construction of an outlet structure; construction of monitoring systems including piezometers and inclinometers; construction and integration of



SCADA monitoring, communications and control system, including all PLC's and software, satellite communications equipment, remote computer, SCADA software and HMI programming.

**Arkansas River Levee Improvements - Phase I; Pueblo, CO**

Owner: Pueblo Conservancy District

Contract Value: \$3,603,740

Duration: Duration: 11/2014 - 03/2015

The project involves the remediation/reconstruction of approximately 3300 linear feet of the existing Arkansas River Levee from the 11th Street Bridge to the southeast. The current levee consists of an existing earthen embankment approximately 40' tall which is faced with reinforced concrete approximately 10" thick. The Phase One project includes lowering of the existing embankment by approximately 12' and removing and replacing all reinforced concrete facing and foundations, complete with all incidentals of construction. 2.5 miles of Levee work, including repairing and/or replacing the plinth (the footing at the toe of the levee); replacing all or a portion of the concrete panels; repairing and/or replacing the small parapet wall at the crest; fixing portions of the embankment underlying the panels; maintaining (not damaging) the existing step pools.

**GlidePath Group, Colorado Springs, CO**

May 2012 - January 2014, Operation & Maintenance Manager

Oversaw Millwrights and Systems Techs for a O/M contract at the Colorado Springs Airport, Maintenance involved P/M as well as repair on the out bound BHS system. The system of conveyors with make-up loops and merge belts and diverters. PLC's along with IO boards and full reporting system, handle any issues between the Airport and TSA and Airlines. Performed hygiene training with the Airlines and training of Airport staff on the system.

**Peter Kiewit Corp, Pueblo, CO**

October 2010 - April 2011, Carpenter Foreman Form Work

Oversaw the form work on foundations on the project ranging from the CTG's, pipe supports, footers, duct banks, slab on grade, switch gear and various other foundations. Performed the lay out on each structure for forms to bolts and penetrations. Foundations sizes ranged from 1 cubic yard to 700 cubic yards. Forms used were logic (metric) to job built (wood). Performed pre-inspections and conducted safety meetings with crews, did HA's and JHA, time sheets.

**Velocity Constructors, Lakewood, CO**

May 2005 - July 2008, Project Superintendent

Oversaw projects from start to punch outs. Developed project schedules, ordering of materials scheduling of sub-contractors, labor management, RFI's, CO's, safety daily logs, inspection of work and resolve issues on projects. Projects were Waste Water and Water Treatment Plants. Activities included dirt work, yard piping, re-bar, concrete forming and placement, footers, walls, columns, slabs, interior piping, mechanical installations, remodel work on projects and at a remodel project at the Veterans home in Florence, Co.

**Mortenson Construction, Denver, CO**

November 2004 - May 2005, Project Foreman

Oversaw Carpenters, Labors, Cement masons, took care of the dewatering on the project. Work performed was concrete, slab on grade, curb and gutter, patching, form work for the project, interior mechanical pads, caissons, sidewalks.

**Civil Constructors, Freeport, IL**

April 2002 - November 2004, General Superintendent

Work was performed in the Waste Water and Water treatment plants including scheduling of work, scheduling sub-contractors, and labor force, conducted project meetings, RFI's, CO's, resolve issues on projects. Work performed was dirt, concrete forming and placement, yard piping, interior piping, ironwork, pumps, mechanical installations. Projects were Green Mountain Falls water tank, Sand Creek lift station

**Bradbury & Stamm, Albuquerque, NM**

July 2000 - September 2002, General Foreman

Project work on was the Whitlock Treatment plant in Pueblo, Co. Worked preformed on project ranged included form work and concrete, slab on grade and decks, footers, pile caps, footers, beams walls, interior pads, concrete pours ranged from 1 yard to 400 yards, all patching on project, mechanical work, flock drive units, pumps, interior piping and process piping, did inspection work, time sheets, help with scheduling of labor, sub-contractors, materials.

**MJ Dean Construction, Las Vegas, NV**

January 1994 - April 1999, Concrete Superintendent

Work preformed was on Casino Resorts including Mandalay Bay, Circus Circus, Monte Carlo, and Luxor. Oversaw all aspects of concrete work including placement of slab on grade, decks, walls, footers, curb & gutter, sidewalks, patching, scheduling of concrete, labor materials, safety meetings, working from swing scaffolding and free standing scaffolding projects, concrete pours ranged from 1 yard to 1,000 yards.

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**PROFESSIONAL EXPERIENCE:**

<b>June 2014 to Present</b>	<b>ASI Constructors, Inc.; Pueblo West, CO</b> Concrete Superintendent
<b>May 2012 - January 2014</b>	<b>GlidePath Group, Colorado Springs, CO</b> Operation & Maintenance Manager
<b>October 2010 - April 2011</b>	<b>Peter Kiewit Corp, Pueblo, CO</b> Carpenter Foreman Form Work
<b>May 2005 - July 2008</b>	<b>Velocity Constructors, Lakewood, CO</b> Project Superintendent
<b>November 2004 - May 2005</b>	<b>Mortenson Construction, Denver, CO</b> Project Foreman
<b>April 2002 - November 2004</b>	<b>Civil Constructors, Freeport, IL</b> General Superintendent
<b>July 2000 - September 2002</b>	<b>Bradbury &amp; Stamm, Albuquerque, NM</b> General Foreman
<b>January 1994 - April 1999</b>	<b>MJ Dean Construction, Las Vegas, NV</b> Concrete Superintendent





**Telly Labus**  
Project Superintendent

**YEARS WITH FIRM:** Since 2010

**TOTAL YEARS OF INDUSTRY EXPERIENCE:** Since 1996

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**KEY QUALIFICATIONS:**

Telly Labus is a project superintendent with ASI. As a project superintendent he is on the project site at all times and is an immediate point of contact involved with directing the crew and on-site construction activities. Previously employed as earthwork/quarry superintendent, Telly's responsibilities consist of directing all day operations, including project safety, crew supervision, equipment utilization, daily productions, and material delivery.

Telly is responsible for all onsite construction activities including labor, equipment forces, subcontractors, vendors, quality control/assurance and overall field coordination. He is also jointly responsible for overall construction methodology and sequencing.

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**EDUCATION & TRAINING:**

48 Hour MSHA Training, 40 Hour First Responder, CPR

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**EXPERIENCE RECORD:**

**Green River Raw Water Reservoir; Green River, WY**

Client: Green River–Rock Springs–Sweetwater City, Joint Powers Water Board

Contract Value: \$15,548,882

Duration: 4/01/15 - 7/31/16 (est.)

The Project consists of the construction of an approximate 350 acre foot Raw Water Reservoir upgrading of the existing JPWB Water Treatment Plant in Green River, WY, with primary element general construction components as follows: Approximately 320,000 CY of mass excavation, including rock and unclassified; Approximately 200,000 CY of dam embankment construction, including filter drains; Approximately 26,000 CY of soil cement step, slab, plate and wall; Approximately 2,200 CY of cast-in-place concrete reservoir inlet and outlet structures, and drainage control structures; Approximately 50,000 CY of smooth and textured geomembrane reservoir lining; Installation of approximately 3,300 LF of exterior 30" and 36" PVC Reservoir supply and discharge piping, including connections to the existing system; interior Pump and 30" Steel Piping Modifications to the existing River Intake Structure; Secondary project components include normal project administration, reservoir instrumentation, roadway and bridge construction, fencing and security, irrigation systems, and seeding and reclamation.

**Beaver Park Dam Rehabilitation Phase II; Southfork, CO**

Owner: Colorado Parks & Wildlife

Contract Value: \$10,287,000

Duration: 03/2014 – 09/2015

The work consists of the following: Construction of safety measures to protect the public, workers and the Work from rockfalls originating on existing slopes outside the limits of temporary excavations; stream diversion and care during construction including maintaining the reservoir water level at or below the maximum elevation and maintaining the minimum discharge flow rate; demolition of the existing intake structure, gate house and downstream outlet pipe; excavation and



removal of timber cribbing in the left abutment; construction of filter sand and gravel drain in the left abutment, including associated excavation, backfill and soil nail wall. The project has a staged sand drain system. The work also consists of widening of dam crest and regarding of dam downstream face; construction of outlet works intake structure and associated sluice gate, air vent and hydraulic gate actuation system; construction of steel pipe liner inside existing pipe, encased cut-and cover steel pipe, and outlet structure piping, valves and appurtenances; construction of a control building and associated engine generator and solar power systems, hydraulic gate actuation control system, electric valve automation control system and all electrical, instrumentation and communication systems; construction of an outlet structure; construction of monitoring systems including piezometers and inclinometers; construction and integration of SCADA monitoring, communications and control system, including all PLC's and software, satellite communications equipment, remote computer, SCADA software and HMI programming.

**Mountain Creek FRS #10, Texas**

Owner: Dalworth Soil & Water;

Contract Value: \$5,640,000

The project includes draining the existing Padera Lake; removing and replacing the principal spillway pipe and outlet structures; excavating, lime treating and replacing certain areas of the existing dam embankment; raising and widening the existing dam cross section; and constructing a new RCC emergency spillway. Principal items of work include approximately 100,000 CY of excavation/backfill and 12,000 CY of RCC.

**Stagecoach Spillway Replacement, Tacoma Hydroelectric Project, Durango, CO**

Client: Xcel Energy

Contract Value: \$3,925,092

Duration: 07/2013 – 11/2013

The Stagecoach Spillway Replacement includes clearing, grubbing, preparation of a staging/stockpile areas, and improvement of the access road; installation of a new culvert crossing in the inlet channel; stripping and stockpiling topsoil; demolition of the timber crib Stagecoach Dam and wooden spillway planking; soil and rock excavation; foundation preparation and cleaning and placing dental concrete, backfill concrete, and slush grout; installing rock anchors under the new spillway slab; placing structural concrete for the new labyrinth spillway; processing on-site soils to furnish and place Zone 1 Fill and Zone 2 Fill in the spillway backfill embankment; processing on-Site riprap, excavated rock, rock from the existing timber crib dam, or other quarry sites to furnish and place Type 1 riprap or Type 2 riprap; furnish from off-Site sources and place Gravel Filter, basecourse, Type 1 riprap bedding, and Type 2 riprap bedding; and install toe drain pipe and the structural concrete toe drain headwalls; install dam instrumentation, the log boom, the boat dock, and chain link fencing; and reclamation at the Stagecoach Spillway Site and the access road.

**2012 Southern Delivery Raw Water Transmission Pipeline Segment S1, Pueblo, CO**

Client: Colorado Springs Utilities

Contract Value: \$19,326,902

The work involved the construction, testing, and inspection of the Southern Delivery System Raw Water Transmission Pipeline Segment S1, which involved the construction of approximately 22,599 LF of 66" diameter welded steel underground raw water pipeline located south of Juniper Road and extending to south of Highway 50 in the Pueblo West Metropolitan District in Pueblo County, Colorado.

**2011 Southern Delivery Raw Water Transmission Seg. S4B/N1A/N1B Colorado Springs, CO**

Client: Colorado Springs Utilities

Contract Value: \$26,188,764

The Work involved the construction of approximately 8.5 miles of sixty-six inch (66") diameter welded steel underground raw water pipeline located southeast of the City of Fountain, east of I-25 in El Paso County, Colorado.



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**2011 Southern Delivery Dam Connection, Pueblo, CO**

Client: Colorado Springs Utilities

Contract Value: \$2,416,000

This project consisted of the installation of a Stainless Steel liner inside of an existing tunnel using a cart and track system under the Pueblo Reservoir Dam. Fixed cone valve assembly along with 90" diameter steel pipe and appurtenances.

**2011 Lake Pueblo State Park Water System Upgrades, Pueblo West, CO**

Client: Colorado State Parks

Contract Value: \$2,658,286

This project consisted of the installation of 37,000 LF of 8" HDPE sliplining inside existing 12" water main, 7,600 LF of new 8" HDPE water main, 23,100 LF of new small diameter water main in various sizes, replacing numerous valves and fire hydrants, replacing yard hydrants with ADA compliant hydrants, install 28 new ADA compliant hydrants, improvements to existing 100,000 gallon storage tank, and a new booster pump station.

**2011 North Canon Sewer, Canon City, CO**

Client: Fremont Sanitation District

Contract Value: \$2,184,671

Installation of over 17,000 LF of 8" PVC Sanitary sewer main, 43 manholes, and 180 service connections.

**2010 Canon City Water Backwash Recovery Pond & Drying Beds, Canon City, CO**

Client: City of Canon City

Contract Value: \$3,018,797

Project was constructed in an operating water treatment facility to include installation of 4,258 LF yard piping, 5,280 SY of Rip-Rap, 4,500 CY of cast-in-place concrete structures 75,000 CY of excavation and backfill excavations 50 ft deep, extensive erosion control, revegetation, multiple relocations of existing utilities.

**2009 Las Vegas Waste Water Treatment Plant, Colorado Springs, CO**

Client: Colorado Springs Utilities

Contract Value: \$450,840

Installation of 1,300 LF of 8" PVC waterline at the Las Vegas Waste Water Treatment facility.

**2009 Art Craft 2&3, El Paso, TX**

Client: El Paso Water Utilities

Contract Value: \$4,718,228

Project located in existing streets required significant traffic control and asphalt replacement, coordination with land developer working in our right-of-way. Installation of dual pipelines in signal trench, approximately 15,189 LF of 30" bar wrap pipe, 1,137 LF of 24" bar wrap pipe, 1,100 LF of 20" bar wrap pipe, 1,764 LF of PVC pipe, 185 LF of 48" bored casing, manholes, connections and all associated appurtenances.

**2006 AVS Raw Water Pipeline Replacement, Beulah, ND**

Client: Basin Electric Power

Contract Value: \$5,039,415

This project consists of pipeline installation across an operating coal mine, pump station tie-in limited to three day's work to maintain power to coal mine, installation of approximately 47,000 LF of 42-inch steel pipe, 810 LF of 54-inch bored casing, manholes, connections and all associated accessories.

**2005 Lewis & Clark Raw Water Pipeline, Vermillion, SD**

Contract Value: \$8,982,634

This project consists of installation of approximately 34,565 LF of 54-inch steel raw water line; manholes; connections and all associated accessories. Project also includes 665 LF of horizontal boring and two irrigation canal crossings.

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**2004 Highway 24 Reconstruction, Colorado Springs, CO**

Ten miles of road and drainage reconstruction on Highway 24 for the Colorado Department of Transportation. Work included all requirements of road construction.

**2003 Bluff's Field, Colorado Springs, CO**

Five miles of tank roadways construction on Fort Carson Military Base including clearing, grubbing, and earthfill.

**2003 Crossfire Trail – Colorado Springs, CO**

Fifteen miles of road and storm water drainage construction in mountainous areas located at the US Air Force Academy in Colorado Springs. The job consisted of clearing, grubbing, mass excavation, drainage, soil compaction, subbase paving, and adding a guardrail fence.

**2002 Clevenger Pit**

Four miles of road and drainage construction. Work also included pit development, stripping, grading, earthwork moving, and reclamation of rock quarry.

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**PROFESSIONAL EXPERIENCE:**

**2010 – Present**

**ASI Constructors, Inc., Pueblo West, Colorado**  
Project Superintendent, Earthwork Superintendent

**2005 - 2010**

**High Country Pipeline, Penrose, Colorado**  
Project Superintendent

**1996 – 2005**

**Rocky Mountain Materials, Inc.**  
Earthwork / Quarry Superintendent (8 years)  
Operator (3 years)





**MICHAEL ATWOOD**  
Project Manager

**YEARS WITH FIRM:** Since 2012 **TOTAL YEARS OF INDUSTRY EXPERIENCE:** 20+ years

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**KEY QUALIFICATIONS:**

As a Project Manager with ASI, Michael is responsible for assisting with the management of field operations on large scale multi-disciplined construction projects. He is to coordinate with and manage company craft personnel, subcontractors, inspectors, engineers and owners to maintain safety, schedule, profitability, and client satisfaction. He also oversees and provides management for assigned crews.

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**PROFESSIONAL LICENSES & EDUCATION:**

1992-1993, 92 Hrs, University of Southern Colorado  
1991, 1992, 17 Hrs, Western State College  
7 Years MSHA experience  
GPS survey/ grade checking qualified 1.5 years

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**EXPERIENCE RECORD:**

**ASI Constructors, Inc., Pueblo West, CO**

Oct 2012 – Present, Project Manager

Responsibilities include managing foremen and 2-6 man carpenter crews effectively. Assist in the development of short interval schedules. Manage timekeeping and daily task planners. Ensures the implementation of daily tool box meetings to discuss safety, quality and productivity and then practice and manage safety on the project site and with teams. Also manages equipment utilization. Reads and understand plans, specifications. Plan the project so as to minimize delays, maximize efficiency and ensure a smoothly run project. Assists in developing the project schedules, CPM schedules, short interval scheduling, indirect labor schedules and equipment schedules. Assist with scheduling and coordination of subcontractor activities. Order and coordinate deliveries, handling, storage, inspections, and placement of materials and equipment on the job site with vendors. Monitor task/project progress and adjust schedules, work crews, and deliveries and adjust these as required. Ensures that all project reporting and documentation is completed in a timely manner. Mr. Atwood is also responsible for ensuring that all required reporting (daily logs, time sheets, injury and accident reports) are completed on schedule.

**Clear Lake Dam Replacement; CO**

Owner: Xcel Energy

Contract Value: \$6,180,000

Duration: 08/14 - Ongoing

The Clear Lake Dam is located in Georgetown, CO and is part of the Georgetown Hydroelectric Project, owned and operated by Public Service Company of Colorado, d/b/a Xcel Energy. Clear Lake provides storage for winter-period operation of the

hydroelectric plant and is also an important recreational facility in the region. Following state safety inspections, FERC expressed concerns about the dam's inadequate spillway capacity. The existing small, ungated spillway had the capability of passing the estimated 50-year flood prior to the dam being overtopped. Overtopping of Clear Lake Dam during a large flood could result in dam failure. The project consists of the removal of the existing embankment dam and the construction of a new RCC dam in the same location.

**Arkansas River Levee Improvements - Phase I; CO**

Owner: Pueblo Conservancy District

Contract Value: \$3,603,740

Duration: 11/2014 - 03/2015

The project involves the remediation/reconstruction of approximately 3300 linear feet of the existing Arkansas River Levee from the 11th Street Bridge to the southeast. The current levee consists of an existing earthen embankment approximately 40' tall which is faced with reinforced concrete approximately 10" thick. The Phase One project includes lowering of the existing embankment by approximately 12' and removing and replacing all reinforced concrete facing and foundations, complete with all incidentals of construction. 2.5 miles of Levee work, including repairing and/or replacing the plinth (the footing at the toe of the levee); replacing all or a portion of the concrete panels; repairing and/or replacing the small parapet wall at the crest; fixing portions of the embankment underlying the panels; maintaining (not damaging) the existing step pools.

**Northfield Dam Modifications; CO**

Owner: Colorado Springs Utilities

Contract Value: \$4,674,416

Duration: 03/2014 - 11/2014

Northfield Dam is a 30-foot high embankment dam approximately 350 feet in length, with a storage volume of 245 ac-ft. The dam was constructed in 1890. Major work items associated with the modifications to Northfield Dam include: mobilization; diversion and dewatering; erosion and sediment control; stripping and stockpiling topsoil; demolishing the WTP, associated structures and utilities located near the downstream toe of the Northfield Dam; constructing a new concrete spillway control structure, chute and stilling basin on the dam embankment near the left abutment; reclamation; and more.

**Kelker Electric Substation Storm Sewer Improvements; Colorado Springs, CO**

Owner: Colorado Springs Utilities

Contract Value: \$1,624,698

Duration: 10/2013 - 06/2014

In support of the expansion of the existing Kelker Electric substation, approximately 2,100 LF of new storm sewer was installed from the eastern edge of Jet Wing Drive to its outfall on Sand Creek.

**Conduit 302; Denver, CO**

Owner: City and County of Denver;

Contract Value: \$4,632,685

Duration: 09/2013 - 01/2014

This phase of Conduit No. 302 consisted of approximately 10,800 linear feet of 36-inch diameter recycled water conduit that started from a 30-inch bulkhead in an easement just north and east of 56th Avenue and Chambers Road. The conduit continued, and runs adjacent to, 56th Avenue to Tower Road, except where it goes under First Creek. At the First Creek crossing, Conduit No. 302 was laid in conjunction with a lowering of potable water Conduit No. 93. This phase of Conduit No. 302 terminated in Tower Road, approximately 600 feet south of the 56th Avenue and Tower Road intersection. Certain portions of the Work required weekend work and night work. Coordination was required



with a number of agencies including, but not limited to: City & County of Denver, Regional Transportation District (FasTracks), DIA, Rocky Mountain Arsenal Wildlife Refuge, Xcel Energy (Gas & Electric), Century Link Communications, Comcast Communications, ConocoPhillips, Sinclair Pipeline Co., Sprint/Nextel Communications, and Magellan Pipeline Co.

**Modifications to Lake Roberts Dam; NM**

Owner: New Mexico Department of Game and Fish

Contract Value: \$6,924,815

Duration: 05/2013 – 09/2013

Demo of existing concrete spillway, reconstruction of the primary spillway, construct an additional secondary spillway, and construct an approx. 8 foot dam raise, new dam instrumentation, and misc. site improvements.

**Los Alamos Canyon Dam Modifications; NM**

Owner: URS

Contract Amount: \$5,246,282

Duration: 10/2012 – 04/2013

Work on this project consisted of demolition, removal, and disposal of the existing gunnite coating and articulated concrete mattresses on the reservoir faces, existing outlet gate tower, existing soil nail wall and other appurtenant features of the dam and construction of new features as outlined in the plans and specifications. Upstream and downstream faces of the dam structure were enhanced with additional fill and filter material and reconstructed to new slopes as called out in the plans and specifications. A new roller compacted concrete spillway with formed concrete trainer walls was constructed. Additionally, a new service spillway and stilling basin was constructed of formed concrete. A new submerged outlet gate was also constructed as detailed in the plans and specifications. New outlet piping was installed from the existing dam pipe to the existing canyon pipeline connection point as shown on the drawings. Monitoring and instrumentation points together with other appurtenant features were also installed as shown in the plans and specifications.

**City of Canon City 15th St Reconstruction Project**

Projects consisted of 1.9 miles of concrete paving, curb and gutter, storm inlets, H/C ramps, cross pans, and sidewalks.

**Merlino Construction White Pine Subdivision; Canon City, CO**

(Entire concrete flatwork package) Approximate 3,000 LF of curb and gutter, approximately 3,000 LF of concrete paving, sidewalk, patios, drives, garage floors, and sidewalks for 8 duplex townhomes.

**Canon City Parks and Recreation District Sell Ave. Project; CO**

Project included 2.0 miles of concrete paving and curb and gutter.

**Fremont County, CO**

Project included construction of atrium area in administration building, colored/decorative concrete, and water feature.

**Denny's Restaurant; Canon City, CO**

(Entire concrete package) Project included building slab, curb and gutter, lot paving, sidewalks, retaining walls, and light bases.

**Del Taco; Durango, CO**

(Entire concrete flatwork package) Project included curb and gutter, lot paving, sidewalks, and H/C ramps.

**Main St. Reconstruction Project; Aguilar, CO**

Project included 10,000 LF of curb and gutter, 10,000 LF of sidewalk, cross pans, H/C ramps, and storm inlets.

**Jewett Drug Store; Canon City, CO**

(Lot reconstruction) Project included 300 yds concrete paving, 1,200 LF of curb and gutter.

**Ortega's Restaurant; Canon City, CO**

(Parking lot) Project included 12,000 sq ft white top over asphalt.

**Odd Fellows Home; Canon City, CO**

(Parking lot) Project included 500 yds of lot paving.

**Holcim Cement Plant; Florence, CO**

(Site paving) Project included 3,000 yds concrete paving.

**Bellows Ct. Subdivision-Canon City, Co**

(Entire concrete flatwork package) Project included 0.5 miles concrete paving, 5,000 LF curb and gutter, H/C ramps, cross pans, sidewalks, and 11 duplex town homes (flatwork only).

**Federal Bureau of Prisons-Florence, CO**

Project included construction of sanitary sewer bar screen.

***\*\*Approx. 2,000 residential concrete projects over last 10 years***

**Climax mine reconstruction project Climax, CO**

Superintendent for the construction of the Sag mill pedestal foundation (1,400 yds continuous pour). Building foundations, transformer pads, and punch list items for project close out.

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**PROFESSIONAL EXPERIENCE:**

**October 2012 – Present**

**ASI Constructors, Inc.**  
Superintendent, Project Manager

**May 2010 – October 2012**

**Colorado Department of Corrections**  
Correctional Officer Level II

**March 2010 – October 2010**

**Ames Construction**  
Grade Checker

**October 2009 – March 2010**

**Castle Canyon Custom Homes**  
Site Superintendent

**June 2009 – October 2009**

**Front Range Aggregate**  
Equipment operator



**September 2008 - June 2009**

**Ames Construction**  
Structural Superintendent

**1999-2008**

**Atwood Concrete, Inc.**  
Owner/Operator

**1993-1998**

**Colorado Department of Corrections**  
Correctional Officer II

**1991-1994**

**Robert Adamson Construction**  
Laborer/finisher



**Seth Richards**  
Project Engineer

**YEARS WITH FIRM:** Since 2015

**TOTAL YEARS OF INDUSTRY EXPERIENCE:** Since 2011

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**KEY QUALIFICATIONS:**

Mr. Richards experience consists of the design, planning and coordination of various construction projects, overseeing field construction for specification and drawing conformance, developing safety plans and recommendations, material procurement, jobsite quantity tracking, manpower and equipment scheduling, the preparation of product data and procedural submittals, and a strong working knowledge of construction surveying and layout. Overall, Mr. Richards has the confidence and experience to work close with on-site engineers to accomplish the expectations of the project owner, in order to deliver quality products, built to last.

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**PROFESSIONAL LICENSES AND EDUCATION:**

State University of New York College of Technology at Alfred (2012)  
B.S. Surveying Engineering Technology  
Passed NCEES Fundamentals of Surveying Exams (LSIT Certified)

**Selected Skills & Achievements:**

Lidar Scanning and Point Processing, Pump Systems Design, Hydrographic Surveying, AutoCAD, Project Engineering & Management, GPS, Machine Control, Storm Water Management, Mining/Earthwork

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**EXPERIENCE RECORD:**

**ASI Constructors, Inc. Pueblo West, CO**  
05/2015 to Present, Project Engineer

**Green River Raw Water Reservoir; Green River, WY**

Client: Green River–Rock Springs–Sweetwater City, Joint Powers Water Board

Contract Value: \$15,548,882.50

Duration: 4/01/15 - 7/31/16 (est.)

The Project consists of the construction of an approximate 350 acre foot Raw Water Reservoir upgrading of the existing JPWB Water Treatment Plant in Green River, WY, with primary element general construction components as follows: Approximately 320,000 CY of mass excavation, including rock and unclassified; Approximately 200,000 CY of dam embankment construction, including filter drains; Approximately 26,000 CY of soil cement step, slab, plate and wall; Approximately 2,200 CY of cast-in-place concrete reservoir inlet and outlet structures, and drainage control structures; Approximately 50,000 CY of smooth and textured geomembrane reservoir lining; Installation of approximately 3,300 LF of exterior 30" and 36" PVC Reservoir supply and discharge piping, including connections to the existing system; Interior Pump and 30" Steel Piping Modifications to the existing River Intake Structure; Secondary project components include normal project administration, reservoir instrumentation, roadway and bridge construction, fencing and security, irrigation systems, and seeding and reclamation.



**Engineering Specialist | Freeport McMoRan**

04/2013 – 05/2015

Assisting in the review, investigation, and development of appropriate recommendations regarding assigned engineering projects. Participating on site construction, expansion or modification projects. Administering contracts with vendors for the provision of services and equipment. Developing working knowledge of local, state, and federal regulations appropriate to area of assignment. LiDAR scanning and surface modeling. Advising for surveying techniques, equipment, and technology.

Notable Projects Managed:

**"Frog" Storage Pond, Brine System, and Water Spout**

**LiDAR Implementation at Chino Mine**

**Lake One Haul Road D-1 Drainage ACB Low Water Crossing and Culverts**

**"13" Dam Diversion**

**Acid Tank Containment Expansion**

**Surveyor | Freeport McMoRan**

06/2012 – 04/2013

Calculating volumes and quantities, topographic mapping, grade and surface staking, machine control, preparing and implementing construction and blasting stakeouts, slope monitoring, geological targeting, performing bathymetric surveys, and other mine surveying duties.

**Survey Technician | Jacobs Land Surveying**

05/2008 – 05/2012

Independently collecting field data using a robotic total station and GPS, traversing, performing recon and stake outs, researching deeds and applicable information, communicating with clients, and drafting.

**Party Chief | McIntosh & McIntosh**

05/2011 – 08/2011

Worked on the Sable Highlands 20,000 Acre DEC project during the summer of 2011. Directed a small field crew traversing, setting monuments, staking boundary lines, blazing and painting, as well as clearing lines using chainsaws.

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**PROFESSIONAL EXPERIENCE:**

**04/2015 – Present**

**ASI Constructors, Inc. Pueblo West, CO**  
Project Engineer

**04/2013 – 04/2015**

**Freeport-McMoRan, Phoenix, AZ**  
Engineering Specialist

**06/2012 – 04/2013**

**Freeport-McMoRan, Phoenix, AZ**  
Surveyor

**05/2008 – 05/2012**

**Jacobs Land Surveying, Ogdensburg, NY**  
Survey Technician

**05/2011 – 08/2011**

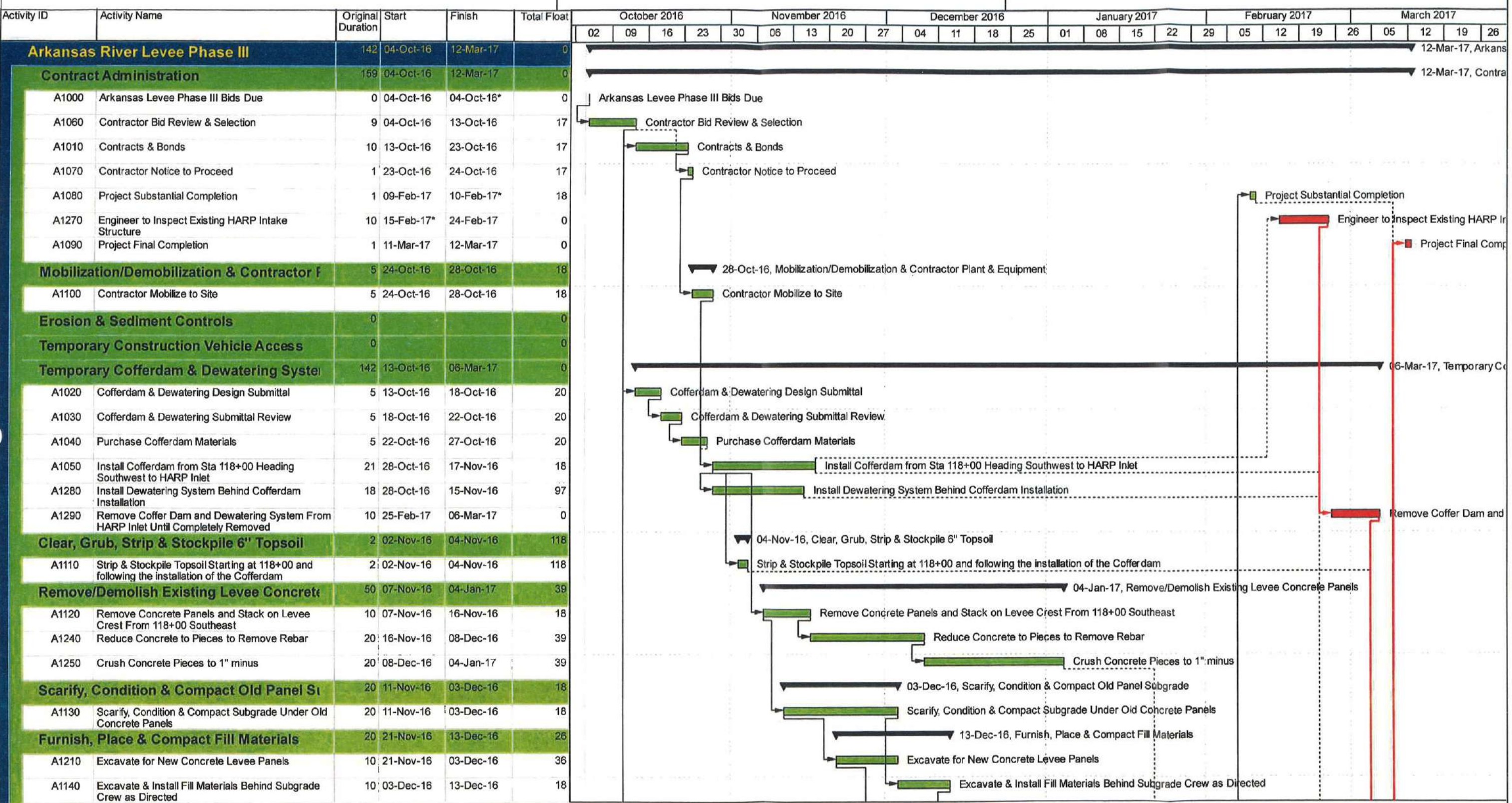
**McIntosh & McIntosh, Sable Highlands, NY**  
Party Chief

# PROJECT TIME SCHEDULE

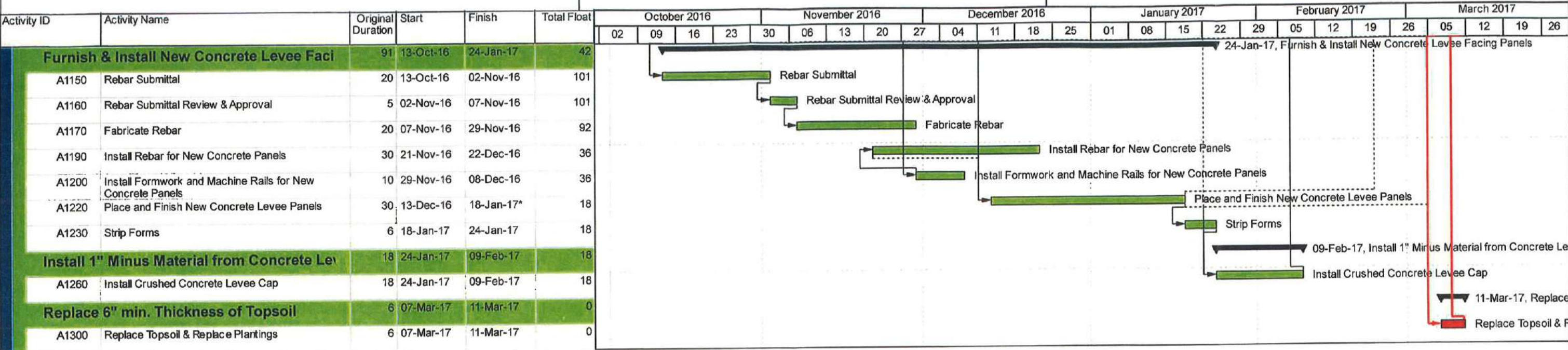




ASI Constructors, Inc.









# ASI SAFETY PROGRAM



## IV. PROJECT STAFFING PLAN





#### IV. PROJECT STAFFING PLAN

Demonstrate firm's, as well as subcontractors, capacity to recruit and retain sufficient numbers of qualified construction personnel including:

- a. Describe the sources to be used for obtaining personnel and how they are inclusive of the member communities residing in Colorado (i.e. Newspapers, word of mouth, union halls). (see b, for total points available).

**RESPONSE:** ASI Constructors, Inc. (ASI) utilizes an applicant tracking system (ATS) and recruiting system called BirdDogHR. BirdDogHR is a comprehensive talent management system that enables us to deliver the focused talent acquisition we need as a corporation operating throughout the United States. BirdDogHR offers very specific solutions for the construction, engineering and skilled trades industry.

ASI uses many job boards through BirdDogHR to attract and recruit top talent in the region. Skilled trades continue to be the most challenging positions to fill for most organizations. Some of these job boards include: The Colorado Workforce Center, BirdDogEngineeringJobs, BirdDogJobs, Diversity Jobs, Geographic Solutions, Glassdoor, Indeed, Job Inventory, JobIsJob, Jobmanji, JobRapido, JuJu, Just Jobs, MEP Jobs, Monster, Simply Hired, US Military Pipeline, WorkHands, US.Jobs (National Labor Exchange), AGC Colorado, Colorado Contractors Association and other local sources such as The Pueblo Chieftain Newspaper.

ASI also attracts many local hires through word of mouth. We have sometimes dozens of local walk-ins a week who heard about us from friends, vendors and community members. ASI has a long history of operating and performing work in Colorado. ASI General Contractors, Inc. was founded in 1978 in Buena Vista, Colorado. ASI Constructors, Inc. was incorporated in December 2005 and is headquartered in Pueblo West, Colorado. ASI routinely hires local craft personnel from the local communities where the project is located. We intend to do the same procedure on the Arkansas River Lowering Phase 2 Project. We also strive to involve local subcontractors that represent the local communities near our various project locations.

- b. Describe how you will ensure that at least 80% of the workers on the Project will be residents of the State of Colorado (examples might include checking driver's licenses, etc.). (4 points maximum for a. and b.).

**RESPONSE:** Being based in Colorado, much of our workforce includes local Colorado residents, including many from the Pueblo community. The Management Team's Project Manager, Senior Project Manager, Engineering Liaison and Concrete/Earthwork Superintendents are all Colorado residents. Several of these employees are also from Pueblo, Colorado. Our President is also a resident of Colorado.

When recruiting, we use partners through our BirdDogHR ATS system such as US.jobs (National Labor Exchange) which ensures postings go to all federal, state, and local veteran, disability, diversity and college alumni sites. We also post directly with the Colorado Workforce Center and our Human Resources Department Manager has had a good relationship with them for coming on 8-years. Through our ATS system, we also post to AGC of Colorado and the Colorado Contractors Association ([www.buildcolorado.com](http://www.buildcolorado.com)), which are the two leading construction associations in Colorado. These job boards target the local Colorado construction industry. The AGC of Colorado (AGC/C) is Colorado's leading professional association for the state's commercial building industry, representing over 400



firms. The Colorado Contractors Association (CCA), which was founded in 1933 is the leading professional association for infrastructure construction professionals across the state.

In the pre-employment process, our corporation performs background and reference checks. It is required at this stage of the process that the applicant submit a copy of their driver's license or ID card. When screening, this will ensure we give preference to qualified local employees who live in our community. As a matter of Federal Law, we are required to validate a potential employee's right to work in the United States and will seek to hire the most qualified individual for the task required. ASI also participates in E-VERIFY. We encourage local hiring practices on all of our projects and will continue that practice on this project.

- 1) The Pueblo Conservancy District will give additional consideration to Contractors who hire locally and whose subcontractors hire locally. What resources are available to your team for hiring locally and for documenting local hires?

**RESPONSE:** ASI will designate Pueblo as a target area for hiring. We have a large pool of qualified applicants who have already applied for positions with ASI that we are able to target through specific job email blasts based on role and city/state they reside in. We also have a large pool of very qualified and specialized employees and former employees who live in Pueblo and are looking for local opportunities to come to. ASI has a full time Human Resources Department that will track all hiring requirements and results for the company. That information would be available as the project develops.

- c. For each trade in which you will directly hire workers, describe any job skills or apprentice training program developed or maintained by your company or in which your company participates where employees receive knowledge about the crafts and skills. Identify both classroom apprenticeship and training programs as well as any "on the job" instruction and describe the following that apply to your company (5 points maximum):

**RESPONSE:** ASI Constructors, Inc. provides on the job and some more formal specialized training that enables employees the chance to grow through the company ranks. We also offer mentoring programs for both craft level employees, who for example are working towards becoming superintendents and also professionals who for example may be project engineers working towards their Professional Engineering License. Our corporation does not participate in at this time any formal apprenticeship programs. We also hold annual craft training programs and supervisor training programs where a variety of classes are taught and current industry topics are discussed. Classes such as the MSHA New Miner Training, both surface and underground training, 24 hr. Surface training and 40 hr. Underground training are given. As well as 8 hr. annual refresher training for current training status.

One example is a 2-day training program given by our safety department for field employees that consists of:

- 10 Hour OSHA Training for supervisors/managers
- 1 Hr. – Intro to OSHA – General Safety & Health Sections
- 1 Hr. – Subpart D (HazCom, up dated GHS labeling and SDS Training)
- 1 Hr. – PPE (inspection & use of eye protection, high visibility clothing, respiratory protection devices, body and hand protection, fall protection systems)
- 1 Hr. – Fire protection & prevention
- 1 Hr. – Hand & Power Tools Subpart H
- 1 Hr. – Electrical

Arkansas River Levee Improvements - Phase 3

Statement of Qualifications

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- 1 Hr. – Fall Protection
- 1 Hr. – Scaffolding
- 1 Hr. – Motor Vehicles
- 1 Hr. – Welding & Cutting
- 2 hr. - Confined Space Training

\*Several practical demonstrations will be given in the above topic areas.

We also allow employees to attend courses specific to their job roles and reimburse for professional designations needed on the job, such as NCCCO license renewals or PE certifications. We offer resources for free online training as well and sometimes have specialized trainers come to our sites. OSHA 10hr. and 30 hr. online courses are provided to Foremen and Superintendents. We are currently incorporating the 10 hr. OSHA training for all ASI core employees.

ASI operates with an on-the-job training philosophy. Skilled craft workers are teamed with new hires to provide the required direction for skill development. All safety training and other specific skill training is provided to all employees on a continuous basis regardless of position. This allows new hires to develop the team approach to our work.

- 1) The types of training programs provided and identity of training providers.

**RESPONSE:** ASI Constructors, Inc. offers many on the job training programs for employees including, fall protection equipment use and inspection, manlift use, heavy machinery operating, confined space entry, rigging training, tool inspection, ladder inspection, lock-out Tag out, emergency notification training, forklift training, OSHA training, MSHA training, CPR training, safety training, ladder use training, welding training, DOT driver apprenticeship programs and more. All OSHA training is conducted by 500 and 501 qualified OSHA outreach trainers or Army Corps of Engineers certified trainers. Brian D. Looby CMSP, CSMP, Army Corps Trainer, MSHA Trainer Surface, Underground, Mine Rescue, Rick Montano Qualified OSHA instructor, Christopher Hicks CESCO, CSMP, Army Corps Trainer, Patrick Hade Army Corps Trainer, Keith Ozbolt Qualified OSHA Trainer. Utilization of and different manufacture's representatives for training on their products are used.

- 2) Include how these programs are incorporated into your project organization and staffing plan.

**RESPONSE:** ASI currently evaluates projects with twenty-five or more employees for the need of a full time Safety Professional along with the complexity of the work and risk factors of the work. Projects are visited by the regional Safety Manager or the Corporate Safety Director on a periodic basis if a full time Safety Professional is not on a project. All new employees go through the orientation process that incorporates all of the basic training requirements of the ASI Safety Program.

ASI Constructors, Inc. has specific training programs incorporated into our projects and company for our employees on the following:

- New hires
- Employees who hold certain roles, such as equipment operators
- Annual training
- Needs based training - training based on current industry trends or environmental reasons.
- New job assignments
- Management training

- 3) The classroom hours and total hours required to complete both apprenticeship and job skills training programs and types of accreditations and/or certifications earned upon completion of the programs.

**RESPONSE:** Once employees complete these training classes and are successfully tested, they receive, for example, authorized operator and training cards so that the supervisors can ensure they can safely operate the equipment they are utilizing. They may also receive certificates which are saved in their training personnel file.

- 4) The annual dollar amount invested in such programs for the past 5 years and whether the program participants are required to pay any portion of the program costs.

**RESPONSE:** ASI's annual training budget is based on how many man hours each job has. ASI multiplies the total labor hours for the job by 25% to get a training budget for each job. On the job training is given at no cost to the employee. For some professional certifications, employees are required to pass the exam before they can submit for reimbursement. Below is a summary of our annual training expenditures.

2010 – \$69,324.00  
2011 – \$86,660.75  
2012 – \$130,963.75  
2013 – \$121,064.50  
2014 – \$152,075.75  
2015 – \$155,000

- 5) Participation and graduation rates (expressed as a percentage of the total number of the enrollees in such programs over the previous 5 years).

**RESPONSE:** Employee training consists of written and verbal testing requirements along with demonstration of training understanding. No employee is allowed to continue a work task until the demonstration of knowledge of practical skills is verified.

- d. Please describe any employee healthcare coverage programs maintained by your company or in which your company participates where employees and/or their dependents receive hospitalization and medical benefits. (4 points maximum).

Include:

- 1) The types of benefits and coverage provided.

**RESPONSE:** ASI Constructors, Inc. provides their employees' healthcare coverage, vision coverage, dental coverage and the option to use a flexible spending account.

Cigna Health Insurance: Eligible hourly employees must work 30 or more hours per week. Salaried Employees - Benefits eligibility begins on the 1st day of the month following 30 days after date of hire. Hourly Employees - Benefits eligibility begins on the 1st day of the month following 60 days after date of hire. Dependents are defined as Spouse and/or Child(ren). Children are defined as less than 26 years of age regardless of financial or student status.

A summary of the Cigna Base and Choice plans taken from our brochure can be found below.



Medical	Cigna Base Plan Individual/Family	Cigna Choice Plan Individual/Family
HSA Qualified HDHP?	No	No
Deductible In Network	\$1,500/\$4,500	\$1,000/\$3,000
Out of Pocket Max In Network (Deductible & Medical Copays included)	\$5,000/\$12,700	\$3,500/\$10,500
Office Visit Copay (PCP/Specialist)	\$30/\$50	\$30/\$50
Preventive Care	Plan pays 100%	
Inpatient Hospital Cost In-Network	You pay 30% after the deductible is met	You pay 20% after the deductible is met
Outpatient Hospital Cost In-Network	You pay 30% after the deductible is met	You pay 20% after the deductible is met
Emergency Room/Urgent Care	\$300/\$60	\$100/\$50
Lab/X Ray Cost In Network	You pay 30% No deductible	You pay 20% No deductible
High-Tech Imaging (MRI, Nuclear Med, Etc.)	You pay 30% after the deductible is met	You pay 20% after the deductible is met
Ambulance (Unlimited per day maximum)	You pay 30% after the deductible is met	You pay 20% after the deductible is met
Durable Medical Equipment	You pay 30% after the deductible is met	You pay 20% after the deductible is met
Rx Copay	*If a Brand name drug is requested when there is a Generic equivalent, member must purchase the Generic drug or pay 100% of the difference between the Brand name price and the Generic price, plus copay. This is true even where physician may dictate "Dispense As Written" on the prescription. \$100 Individual/\$200 Family Front End Deductible applies to brand name prescriptions Tier 1: \$15 Tier 2: \$40 Tier 3: \$70 Home Delivery: 2x 90 Day supply at its retail copay	
Website/Member Phone Number	www.aycigna.com/1-866-494-2111	

## Dental (Guardian):

With your PPO plan, you can visit any dentist, but you pay less out-of-pocket when you choose a PPO dentist.

	PPO
Network	DentalGuard Preferred
Calendar year deductible	In-Network Out-of-Network
Individual	\$50 \$50
Family limit	2 per family
Waived for	Preventive Preventive
Charges covered for you (in-network)	In-Network Out-of-Network
Preventive Care (e.g. cleanings)	100% 100%
Basic Care (e.g. fillings)	80% 80%
Major Care (e.g. crowns, dentures)	50% 50%
Orthodontia	Not Covered
Annual Maximum Benefit	\$1500 \$1000
	Combined In-Network and Out-of-Network maximum of \$1000 with an additional \$500 of benefit In-Network
Maximum Reimbursement	Yes
Reimbursement Threshold	\$500
Reimbursement Amount	\$150
Reimbursement Maximum Amount	\$150
Reimbursement Limit	\$1000
Lifetime Orthodontia Maximum	Not Applicable
Dependent Age Limits (Non-Student/Students)	20/25

## Vision (VSP):

### Your VSP Vision Benefits Summary

AM Constructors, Inc. and VSP provide you with an affordable eyecare plan.

Visit [vsp.com](http://vsp.com) for more details on your vision benefits and for exclusive savings and promotions for VSP members.

VSP Provider Network: VSP Choice			
Benefit	Description	Copay	Frequency
Your Coverage with a VSP Provider			
Well/Screen Exam	• Focuses on your eyes and overall wellness	\$0	Every 12 months
Prescription Glasses		\$25	See frame and lenses
Frame	• \$120 allowance for a wide selection of frames • \$120 allowance for a wide frame brands • 20% savings on the amount over your allowance	Included in Prescription Glasses	Every 24 months
Lenses	• Single vision, lined bifocal, and lined trifocal lenses • Progressive lenses for everyday driving	Included in Prescription Glasses	Every 12 months
Lens Enhancements	• Standard progressive lenses • Premium progressive lenses • Custom progressive lenses • Average savings of 20-75% on other lens enhancements	\$50 \$25 - \$75 \$25 - \$75	Every 12 months
Contact (instead of glasses)	• \$120 allowance for contact lenses does not apply • Contact lens exam/fitting and evaluation	Up to \$50	Every 12 months
Glasses and Sunglasses			
• Extra \$20 to spend on featured frame brands. Go to <a href="#">vsp.com</a> for details. • 20% savings on contact lenses and sunglasses, including lens enhancements, from any VSP provider within 12 months of your last Well/Screen Exam.			
Laser Vision Correction			
• Average 10% off the regular price or 10% off the promotional price, discounts only available from contracted facilities			
Your Coverage with Out-of-Network Providers			
Visit <a href="#">vsp.com</a> for details. If you plan to see a provider other than a VSP network provider, you may be responsible for additional charges.			
Single vision lenses	up to \$100	Single vision sunglasses	up to \$100
Bifocal lenses	up to \$100	Bifocal sunglasses	up to \$100
Tri-vision lenses	up to \$100	Tri-vision sunglasses	up to \$100
Coverage with a participating out-of-network provider may be different. Check your benefit to determine what details are covered. Coverage is subject to the terms and conditions of the plan. See the contract allowed. Based on applicable law.			

## Flexible Spending Account:

### ASI Constructors

### FSA Plan Year October-December 31, 2015 Short plan year

Sometimes referred to as a cafeteria plan, flex plan or a Section 125 plan, a Flexible Spending Account (FSA) lets you set aside a certain amount of your paycheck into an account — before paying income taxes.

	2015	2016	2017	2018	2019
Without the Plan	\$2,000	\$500	\$100	\$300	\$1,100
With the Plan	\$2,000	\$400	\$100	\$300	\$1,200

Without the Plan	With the Plan
 <p>Gross Earnings \$ 2,000 FICA Federal State Taxes \$500 Insurance Premium \$100 Health and Day Care Expenses \$300 <b>NET EARNINGS \$ 1,100</b></p>	 <p>Gross Earnings \$ 2,000 Insurance Premium \$100 Health and Day Care Expenses \$300 Additional Gross Earnings \$ 1,600 FICA Federal State Taxes \$400 <b>NET EARNINGS \$ 1,200</b></p>

During the year, participants have access to this account for reimbursement of expenses that insurance does not cover.

For example:

- Deductibles, co-pays and other eligible expenses not covered by insurance.
- Vitamins with doctor's letter of medical necessity.
- Psychiatric care and psychologist's fees.
- Smoking cessation programs.
- Prescription (Rx) required.

- Prescription drugs and medical supplies.
- Over-the-counter drugs that are medically necessary like allergy medications, aspirin or antacids. Prescription (Rx) required.
- Dietary supplements and vitamins with doctor's letter of medical necessity.
- Dental services, orthodontics and dentures.
- Eyeglasses, contacts, solutions and eye surgery.
- Weight-loss programs with a doctor's letter of medical necessity.
- Over-the-counter drugs, Prescription (Rx) required.
- Chiropractic services.
- Adult and child day care services.

When you use tax-free dollars to pay for these expenses, you realize an increase in your spending power, and substantial tax savings.

### FSA Maximums

Med FSA \$650.00

Dependent Care FSA \$5000 Family Yearly Maximum. \$2500 Married

filing separate.



You can use your TakeCare debit card to pay for eligible expenses however you may be asked to substantiate your receipts from time to time. Please visit our website to set up a user name and password for easy access to your account balance or status of a claim.

[www.takecareplans.com/selectflex](http://www.takecareplans.com/selectflex)

Please contact Select125 for any questions 303-393-4030

- Your plan has a 2 ½ month extension so you can incur expenses October 2015 through March 15, 2016.
- Claims for the 2015 plan year must be filed by March, 31 2016.

### TERMS & CONDITIONS

This plan is use it or lose it per IRS rules so please estimate your expenses prior to signing up for the plan. You have from October 2014 through December 15 2015 to incur expenses due to the 2 ½ month extension. You cannot make a change in the middle of the plan year unless you have a qualified change in status.

All claims received by noon on Thursday will be paid on Friday of the same week provided they are approved.

- 2) The employer and employee contributions to the cost of the plan. Provide contribution ratios for both individual employee coverage as well as any family/dependent coverage plan that is offered.

**RESPONSE:** ASI Constructors, Inc. provides both a Base and Choice medical healthcare option plan. For the Base Plan, ASI Constructors, Inc. will contribute 75% of the premium associated with the Employee option. If the Employee and Spouse, Employee and Child(ren), or family plan is chosen, ASI will contribute 75% of the premium associated with the Employee option and 54% of the difference in premium from the employee option. For the Choice Plan, any contribution made by ASI Constructors, Inc. under the Base Plan will be the responsibility of the employee. ASI



offers the Medical Cigna Base Plan at a 70/30 percentage rate and the Cigna Choice Plan at a 80/20 percentage rate. ASI offers healthcare coverage for employees, spouses and children.

- 3) The percentage of employees covered by the plan. The percentage of employees (both full and part time) for whom a plan is available. Whether the plan automatically provides employee coverage. Whether dependents are covered.

**RESPONSE:** ASI Constructors, Inc. does not have any part time employees at this time. These plans are offered and available to all employees to utilize. This plan does not automatically cover employees. Employees are required to complete the proper paperwork to get enrolled in coverage, or complete a benefits waiver form to reject coverage. Benefits options are given to employees with the post-employment packet on their date of hire and also provided to them once they become eligible. ASI offers healthcare coverage for employees, spouses and children; dependents are covered.

- e. Wage rate range by the trade and craft for all employees including subcontractors (state compensation in dollars/hour when appropriate). (4 points maximum).

**RESPONSE:** ASI Constructors, Inc. provides competitive wages to our employees. A sampling of the average wages is below.

Operators – \$20.00/hour - \$28.00/hour  
Crane Operators - \$30.00/hour - \$37.00/hour  
Laborers - \$15.00/hour to 18.00/hour  
Carpenters – \$25.00/hour - \$28.00/hour  
Journeyman Carpenters - \$18.00/hour - \$23.00/hour

- f. Listing of benefits, in addition to healthcare benefits, provided to employees. Provide specifics regarding the type of benefit (i.e. retirement, vacation, paid time off, etc.), the number of employees covered by each plan, and whether or not spouses and/or families are covered. (3 points maximum).

**RESPONSE:** In addition to the healthcare benefits provided, including healthcare coverage, vision coverage, dental coverage and a flexible spending account, ASI offers a variety of others.

A benefit that comes to spouses, family members, or an alternate designee is our Group Life Insurance & AD&D Plan. This provides ASI Constructors full-time employees with a \$20,000 Group Life and AD&D benefit through Cigna, and pays the full cost of this benefit.

Other benefits include -

Social Security - ASI deducts a portion of your weekly wages and provides an additional amount prescribed by law.

Worker's Compensation Insurance - ASI contributes funds to purchase an insurance policy to provide money to pay for the cost of medical care should you be injured while performing your job.

Unemployment Insurance - ASI participates in a state required unemployment program to provide money for your use should you become unemployed due to project lay-off, project completion or other qualifying employment separation.

The Employee Assistance Program (EAP) - provides you and your immediate family member's free counseling and referral services addressing work, family, legal or financial problems.

Savings Plan (401k) - ASI provides the opportunity for its employees to participate in a structured retirement savings plan. You will be provided with a Summary Plan Description ("Savings Plan Booklet") when you become eligible.

Paid Time Off (PTO) - Salaried employee PTO is 2-weeks for the first three years of employment and 3-weeks after three years of employment. Hourly employees do not accumulate PTO. Instead, eligible hourly employees are paid a bonus in lieu of PTO as more fully described below. Hourly employees who have worked at least 1,960 hours or more during the previous calendar year will receive 50 hours of straight time pay, in lieu of PTO.

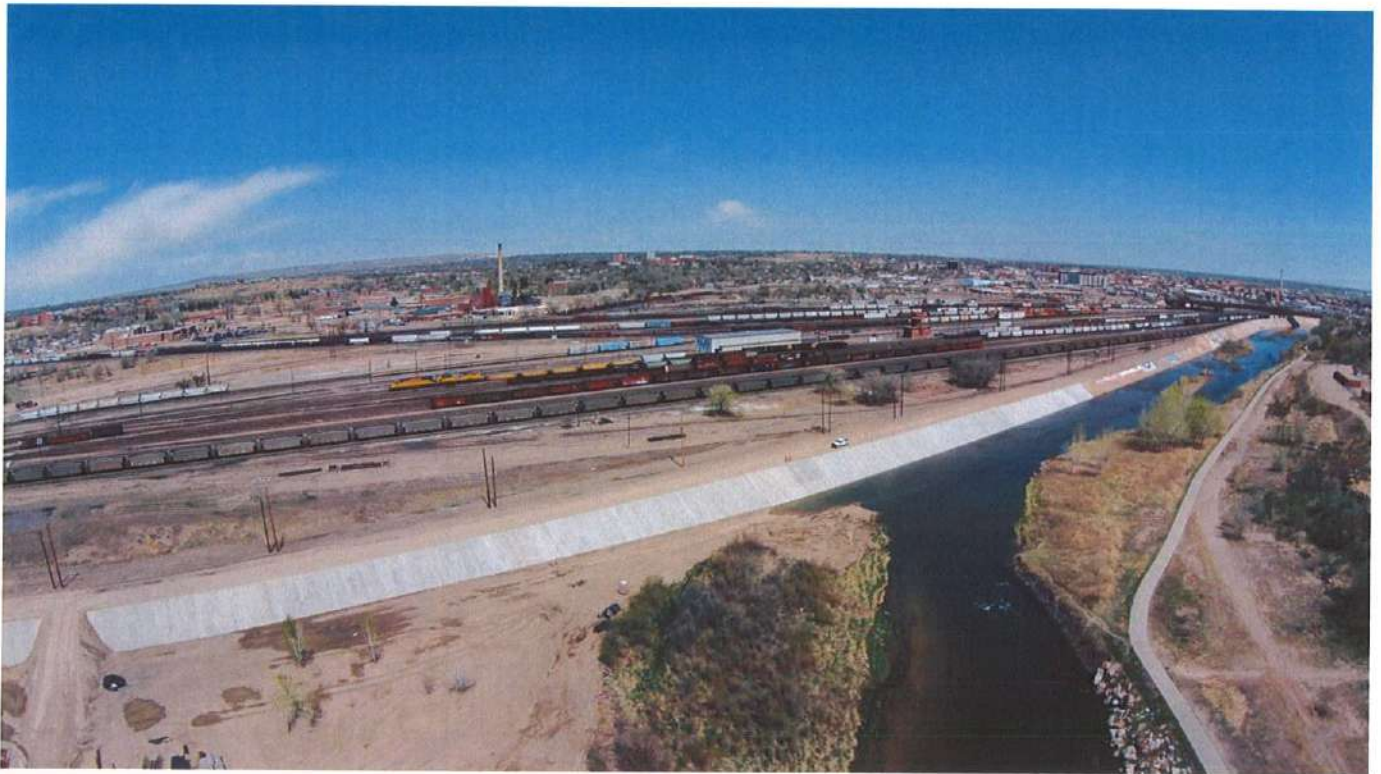
Bereavement Leave - will be granted to employees upon notification of need. Up to 24 hours of paid bereavement leave will be granted to hourly employees who have accumulated more than 1500 hours of continuous service to ASI and to salaried employees who have been continuously employed by ASI for a period of at least 8 months. Up to 24 hours of unpaid bereavement leave will be granted to hourly employees with less than 1500 hours of service to ASI and to salaried employees with less than 8 months continuous employment with ASI. Bereavement leave will be granted only for the loss of immediate family members i.e. father, mother, sister, brother, spouse, child, or grandparent.

Family Leave - may be provided as per the Family Medical Leave Act (FMLA). FMLA leave is only available to eligible employees as defined in the FMLA.

Jury duty - is recognized as a right and duty of all ASI employees. ASI will pay employees for time spent serving on a jury in compliance with applicable state law.



## V. SPECIALIZED EXPERTISE AND QUALIFICATIONS

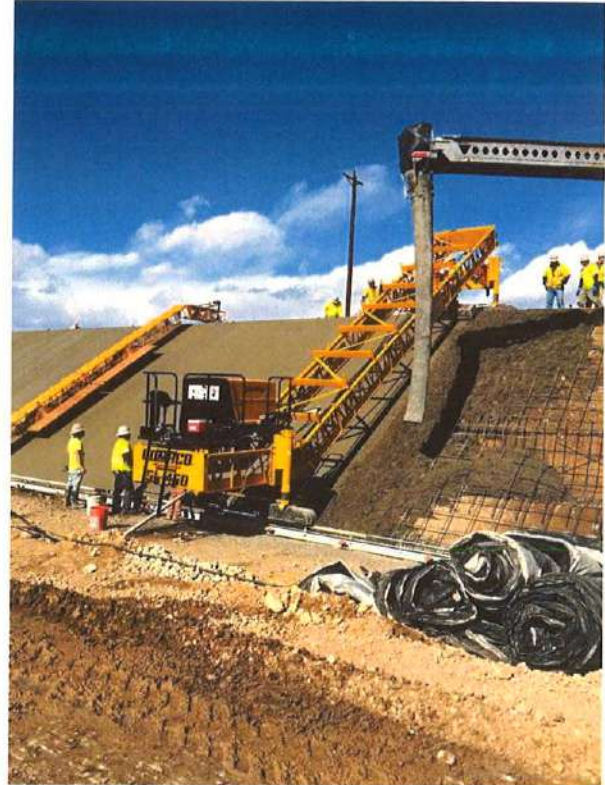


## V. SPECIALIZED EXPERTISE AND QUALIFICATIONS

- a. Provide a written "Statement of Understanding" describing the Proposer's knowledge and understanding of the Project scope including knowledge gained via a "walk through" of the proposed and previous project sites. Include also any challenges the Proposer anticipates encountering during the course of the construction project and how the Proposer intends to address those challenges.

**RESPONSE:** Based on ASI's previous involvement on Phase 1 of the Arkansas River Levee Lowering Project, we are intimately familiar with the elements of this project.

We plan to design / furnish / install / operate / maintain and ultimately remove the temporary cofferdam that will be required to perform the Arkansas River Levee Phase 3 work; remove and crush the existing concrete slope protection for berm top surfacing materials; prepare and compact the subgrade beneath the existing concrete facing and furnish/place/compact the required fill materials to prepare an adequate subgrade for the new concrete slope protection panels; furnish/install/protect/cure the new concrete slope protection panels; install the required artist anchors at designated points along the concrete facing; maintain proper existing haul roads; and spread required surfacing materials at the end of the project such as topsoil to revegetate disturbed areas and crushed rock for the top of levee. The majority of this work scope for Phase 3 will be repeatable based on ASI lessons learned from Phase 1.



### Challenges:

1. ASI views the access to the work areas to be a significant challenge to the progress of the work. A detailed plan and careful execution will be required for the cofferdam and dewatering system – this plan will be critical to being able to complete the project in the amount of time provided.
2. Sawcutting on the existing concrete slope surface will be challenging because of the grade and the containment of sawcutting slurry. To address this issue, ASI will be building a safety walk/work platform the length of the removal areas for operating our sawcutting equipment. The platform will also be used to keep the slurry from running down the slope and into the Arkansas River as well as protect smaller pieces of concrete debris from sliding down the slope and into the Arkansas River. ASI was able to demonstrate this during the Phase 1 construction.



- b. Describe in detail experiences during the last 5 years that the Proposer's team has with respect to handling and crushing reinforced concrete slabs in sizes of at least 10' x 10' x 10". Is the proposed crushing equipment owned by a Project Team member or will it be leased.

**RESPONSE:**



Arkansas River Levee Lowering Phase 1 – Between January and April of 2015, ASI performed crushing activities on the existing levee slope protection. This crushed material was used to surface the new levee top.

Duck River Dam – In 2015, ASI crushed approximately 1,140,000 cubic yards of aggregates from and on-site rock excavation. The material was blasted, hauled and crushed by our own forces in preparation of batching our own concrete on-site.

Taum Sauk Reservoir – ASI recycled concrete and rock from an existing dam that failed in Missouri. The processing of this material created approximately 3,000,000 cubic yards of Roller Compacted Concrete (RCC) aggregate to construct the new dam.

- c. Is there any other equipment necessary to complete this Project which the Project Team will need to purchase or lease (i.e. dewatering equipment such as "aqua-dams", well points, etc.). If so, describe the equipment, its use, its purchase price, and/or its lease cost.

**RESPONSE:** ASI owns the required excavation and off road hauling equipment required for the levee lowering. Highway dump trucks will be needed to travel on the public roads and those units are typically owner operators that we will subcontract for their services.



The crushing equipment needed to reduce the concrete slope protection to the required surfacing size would be rented from a local dealer with whom we have a long history and used on this project in the past.

While we are not anticipating the need for dewatering on this project, should the need arise, we will rent or buy the best product for the dewatering application. This could be a Porta-Dam, Aqua Dam, sheet pile cofferdam, or other. The equipment for installing this is standard construction equipment that is a part of our regular fleet.

- d. Describe in detail experiences during the last 5 years that the Proposer's team has with respect to slope remediation and stabilization including slope reinforcement and soil nailing.

**RESPONSE:** ASI and its subsidiary company, ECI, have successfully completed projects using various means of slope remediation and stabilization techniques. These techniques involved traditional soil nail walls faced with shotcrete, anchored/reinforced vegetated slopes, anchored gabion slopes and slide remediation using cantilevered systems with soldier piles, lagging and reinforced concrete facing. We have the in-house capabilities of designing a solution and all work is self-performed with company owned equipment.



Projects using one of these types of stabilization methods include:

- Duck River Dam – 5,000 SF of soil/rock anchors and steel fiber reinforced shotcrete facing
- Cabresto Dam – 3,000 SF of soil/rock anchors, WWF and shotcrete facing
- Access #9 Rehabilitation – 5,000 SF of soil/rock anchors, flexible growth medium (FGM), turf reinforcement mat (TRM) and Tecco Mesh for landslide remediation.
- Lockport Lock - 10,000 SF of soil/rock anchors, WWF and shotcrete facing.
- Big River Trail Stabilization – 4,000 SF of soldier pile/lagging wall with a reinforced concrete facing stabilizing the toe of a landslide.

- e. Describe in detail experiences during the last 5 years that the Proposer's team has with respect to installing and retrieving sheet piling. Does your firm have staff capable of making engineering decisions regarding installation, placement, and removal of sheet piling or will that work, if required, be subcontracted? If subcontracted, identify the subcontractor and related experiences.

**RESPONSE:**

Experience with Sheet Piling: In addition to the Arkansas River Levee Lowering Phase 1 project from 2015, ASI has designed and installed sheet piling on other projects as follows.

Western Branch Dam – 8,240 SF

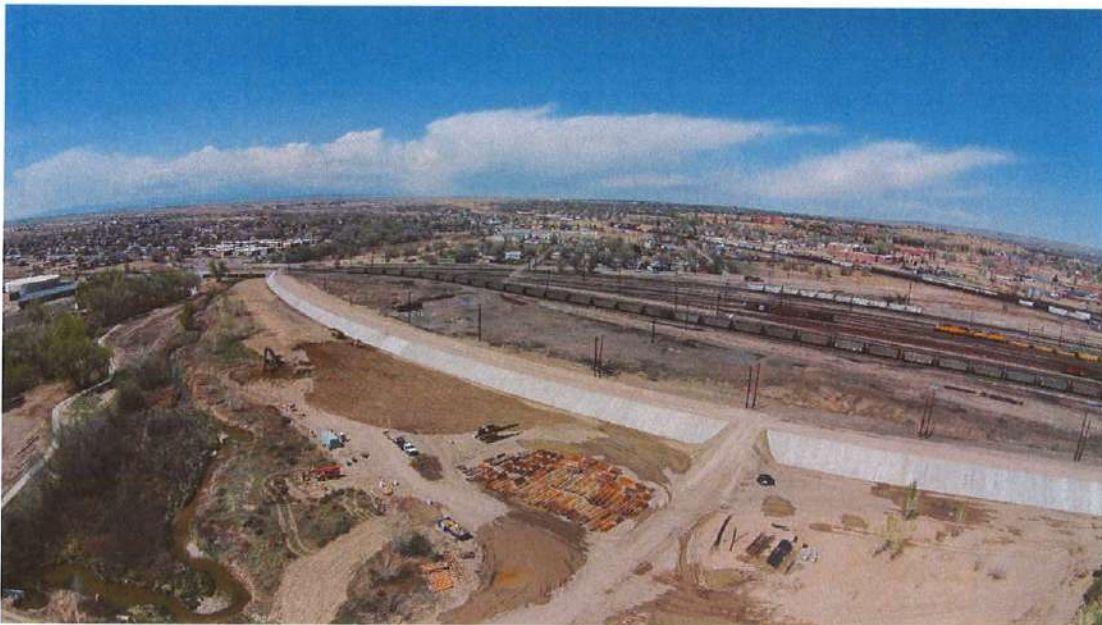
Upper Dam – 49,000 SF



Sheetpile installation if required, would be self-performed by ASI for design, procurement, installation, monitoring, and removal.

- f. Identify personnel (on staff or subcontracted) responsible for monitoring and measuring river and creek flows adjacent to the construction site. Responsibility shall also include engineering decisions related to construction schedules and implementation of remediation efforts should conditions vary from those anticipated or change quickly. Provide a summary of project experiences.

**RESPONSE:** Our on-site staff, which includes a Project Superintendent and a Project Engineer, will be charged with regularly checking the stream conditions for variations that may impact the construction schedule. Should the need arise, ASI has in-house Professional Engineers that can quickly evaluate this situation and prescribe a method of correction or mitigation as the circumstances may demand.



- g. Financial Stability and Resources: During Phase 1 of the Arkansas River Levee Improvements Project, an unexpected circumstance arose where sheet piling had to be ordered and installed before work could continue. The contractor was able to order, receive, and install the required sheet piling within three days of an approved change order due to their financial resources. That timing was critical due to the tight schedule associated with the winter construction season, spring runoff, and reservoir discharges. If there is an unexpected cost of construction (\$500,000 to \$1,000,000) not included in the Contract, and a Change Order is approved by the Pueblo Conservancy District for that cost, how quickly can the Proposer implement the Change Order? In other words, what resources does the Proposer have available to order, pay, and expedite materials required, installation required (including subcontractor costs), and staff availability to implement the required change. (3 points maximum).

**RESPONSE:**

Financial Stability: ASI is regularly involved in the day to day purchase and payment of labor, permanent materials, construction materials, equipment, subcontractors, and all other elements of



heavy construction financing. We have sufficient cash on hand and available bank line of credit to provide the financial stability to this project for any unforeseen change in the job requirements.

Resources: ASI has a substantial inventory of related construction materials and supplies available to hedge against any unforeseen job situation. Given our close proximity to the project site, these materials could be delivered to the project site in a matter of minutes.



## VI. ADDITIONAL REQUIREMENTS AND CONSIDERATIONS



## VI. ADDITIONAL REQUIREMENTS AND CONSIDERATIONS

- a. Executed Price Quotation Schedule with required Lump Sum and Unit Prices (refer to RFQ Attachment B).

**RESPONSE:** See attached in separate sealed envelopes.

- b. Time and Materials Rate Schedule: Submit a schedule of hourly rates for all key personnel and equipment which Proposer anticipates using on the Project including those of subcontractors.

**RESPONSE:** Labor and equipment rate sheets are attached.

- c. Surety Company: Provide the name of the Surety Company that has indicated willingness to bond the Contractor.

**RESPONSE:**

Holmes Murphy  
7600 East Orchard Road, Suite 330 South  
Greenwood Village, CO 80111  
720-622-8357 | 844-484-7750  
[www.holmesmurphy.com](http://www.holmesmurphy.com)

- d. Insurance Certification: Submit current insurance certificates. If selected, the successful firm shall provide certificates of insurance that also name the Pueblo Conservancy District and the District's Consultants as additional insureds.

**RESPONSE:** Please see attached.

- e. Provide information from the last 3 years regarding any charges or violations of law and regulations, litigation, claims (including pending and anticipated claims). Explain the issue and outcome or anticipated outcome.

**RESPONSE:** None.

- f. Annual construction volume (last 3 years), percentage of work generally self-performed, and types of work generally self-performed.

**RESPONSE:**

2016 - \$136,000,000  
2015 - \$122,283,746  
2014 - \$90,779,285  
2013 - \$105,677,397

ASI typically self-performs 90-100% of work on its projects. Self-performed scopes of work typically include earthwork, surface and underground rock excavation and blasting, aggregate production and processing, river diversion, dewatering, foundation preparation, concrete demolition, concrete production, concrete formwork and placement, reinforcing and structural steel erection, pipelines, outlet works construction, water control gates and valves and operating systems and marine construction.



- g. Other items Proposer wishes to present including additional references, standard firm literature, testimonials, awards, corporate membership in organizations, sponsorships, etc.

**RESPONSE:**

- h. "Red Flag" Performance Disclosures Required: Proposers/subcontractors must disclose, for the past 3 years, whether or not they:
- 1) Have been debarred/suspended/otherwise prohibited from doing business with any government agency; **NO**
  - 2) Have been denied prequalification/declared non-responsible/otherwise declared ineligible to bid on public or private jobs; **NO**
  - 3) Have been defaulted/terminated for cause/failed to complete project or required to pay liquidated damages; **NO**
  - 4) Had business/professional license/certification suspended or revoked; **NO**
  - 5) Had any liens filed against firm for failure to pay subcontractors, workers, suppliers;  
**RESPONSE:** Liens are filed on many of our projects by subcontractors and suppliers as a matter of their business policy. No liens have been perfected on any ASI project.
  - 6) Denied bonding or insurance or had same discontinued; **NO**
  - 7) Found in violation of any laws, e.g., wage, tax, licensing, discrimination, environmental laws, etc. by final decision of court or government agency; **NO**
  - 8) Had a case in which firm's owners/officers/directors/managers were the subject of criminal indictment/criminal investigation in connection with firm's business; **NO**
  - 9) Has been subject to bankruptcy proceeding; **NO**
  - 10) Have had any serious or willful health/safety citations. **NO**

# TIME AND MATERIALS RATE SCHEDULE





# ASI Constructors, Inc.

## Arkansas River Levee Improvements - Phase 3

### Labor Rate Schedule

Tuesday, October 04, 2016

Classification	Base Rate \$	Unit	Per Diem \$	Total Tax %	Total Fringe \$	Total Cost \$	Overhead 10% \$	Profit 15% \$	Total Billable Rate \$
<u>CARPENTER</u>									
Carpenter Journeyman	\$25.00	MH	\$0.00	19.72%	\$2.95	\$32.88	\$3.29	\$4.93	\$41.10
Carpenter Foreman	\$30.00	MH	\$100.00	19.72%	\$2.95	\$48.87	\$4.89	\$7.33	\$61.08
Pile Driver Journeyman	\$25.00	MH	\$0.00	19.72%	\$2.95	\$32.88	\$3.29	\$4.93	\$41.10
Pile Driver Foreman	\$30.00	MH	\$100.00	19.72%	\$2.95	\$48.87	\$4.89	\$7.33	\$61.08
<u>CEMENT FINISHER</u>									
Finisher Journeyman	\$25.00	MH	\$0.00	19.72%	\$2.95	\$32.88	\$3.29	\$4.93	\$41.10
Finisher Foreman	\$30.00	MH	\$100.00	19.72%	\$2.95	\$48.87	\$4.89	\$7.33	\$61.08
<u>DRILLER</u>									
Chuck Tender	\$28.00	MH	\$0.00	19.72%	\$2.95	\$36.47	\$3.65	\$5.47	\$45.59
Driller	\$30.00	MH	\$0.00	19.72%	\$2.95	\$38.87	\$3.89	\$5.83	\$48.58
<u>ELECTRICIAN</u>									
Electrician Journeyman	\$35.00	MH	\$0.00	19.72%	\$2.95	\$44.85	\$4.49	\$6.73	\$56.07
Electrician Foreman	\$40.00	MH	\$100.00	19.72%	\$2.95	\$60.84	\$6.08	\$9.13	\$76.05
<u>IRONWORKER-REBAR</u>									
Rebar Journeyman	\$20.00	MH	\$0.00	19.72%	\$2.95	\$26.89	\$2.69	\$4.03	\$33.62
Rebar Foreman	\$25.00	MH	\$100.00	19.72%	\$2.95	\$42.88	\$4.29	\$6.43	\$53.60
<u>IRONWORKER-STRUCTURE</u>									
Ironworker Journeyman	\$30.00	MH	\$0.00	19.72%	\$2.95	\$38.87	\$3.89	\$5.83	\$48.58
Welder/Fabricator	\$32.00	MH	\$0.00	19.72%	\$2.95	\$41.26	\$4.13	\$6.19	\$51.58
Ironworker Foreman	\$35.00	MH	\$100.00	19.72%	\$2.95	\$54.85	\$5.49	\$8.23	\$68.57

# Arkansas River Levee Improvements - Phase 3

## Labor Rate Schedule

Tuesday, October 04, 2016

Classification	Base Rate \$	Unit	Per Diem \$	Total Tax %	Total Fringe \$	Total Direct Cost \$	Overhead 10% \$	Profit 15% \$	Total Billable Rate \$
<u>LABORER</u>									
Laborer General G1	\$14.00	MH	\$0.00	19.72%	\$2.95	\$19.71	\$1.97	\$2.96	\$24.64
Laborer Flagger G2	\$14.00	MH	\$0.00	19.72%	\$2.95	\$19.71	\$1.97	\$2.96	\$24.64
Laborer Pipelayer G3	\$16.50	MH	\$0.00	19.72%	\$2.95	\$22.70	\$2.27	\$3.41	\$28.38
Laborer Demolition G4	\$22.00	MH	\$0.00	19.72%	\$2.95	\$29.29	\$2.93	\$4.39	\$36.61
Laborer Caisson G5	\$25.00	MH	\$0.00	19.72%	\$2.95	\$32.88	\$3.29	\$4.93	\$41.10
Laborer PTO G6	\$22.00	MH	\$0.00	19.72%	\$2.95	\$29.29	\$2.93	\$4.39	\$36.61
Laborer Tunnel G7	\$25.00	MH	\$0.00	19.72%	\$2.95	\$32.88	\$3.29	\$4.93	\$41.10
Laborer Blasting G8	\$25.00	MH	\$0.00	19.72%	\$2.95	\$32.88	\$3.29	\$4.93	\$41.10
Laborer Foreman G9	\$25.00	MH	\$100.00	19.72%	\$2.95	\$42.88	\$4.29	\$6.43	\$53.60
<u>MECHANIC</u>									
Oiler	\$17.50	MH	\$0.00	19.72%	\$2.95	\$23.90	\$2.39	\$3.59	\$29.88
Mechanic	\$20.00	MH	\$0.00	19.72%	\$2.95	\$26.89	\$2.69	\$4.03	\$33.62
Master Mechanic	\$25.00	MH	\$0.00	19.72%	\$2.95	\$32.88	\$3.29	\$4.93	\$41.10
<u>OPERATOR</u>									
Operator Loader/Forklift G1	\$24.00	MH	\$0.00	19.72%	\$2.95	\$31.68	\$3.17	\$4.75	\$39.60
Operator Dozer/Roller G2	\$28.00	MH	\$0.00	19.72%	\$2.95	\$36.47	\$3.65	\$5.47	\$45.59
Operator Excavator/Blade G3	\$30.00	MH	\$0.00	19.72%	\$2.95	\$38.87	\$3.89	\$5.83	\$48.58
Operator Pump/Belt G4	\$27.50	MH	\$0.00	19.72%	\$2.95	\$35.87	\$3.59	\$5.38	\$44.84
Operator Crane 40T G5	\$27.50	MH	\$100.00	19.72%	\$2.95	\$45.87	\$4.59	\$6.88	\$57.34
Operator Crane 100T G6	\$35.00	MH	\$100.00	19.72%	\$2.95	\$54.85	\$5.49	\$8.23	\$68.57
Operator Crane 150T G7	\$35.00	MH	\$100.00	19.72%	\$2.95	\$54.85	\$5.49	\$8.23	\$68.57
Operator Plant G8	\$30.00	MH	\$100.00	19.72%	\$2.95	\$48.87	\$4.89	\$7.33	\$61.08
Operator Foreman G9	\$35.00	MH	\$100.00	19.72%	\$2.95	\$54.85	\$5.49	\$8.23	\$68.57



# Arkansas River Levee Improvements - Phase 3

## Labor Rate Schedule

Tuesday, October 04, 2016

Classification	Base Rate \$	Unit	Per Diem \$	Total Tax %	Total Fringe \$	Total Direct Cost \$	Overhead 10% \$	Profit 15% \$	Total Billable Rate \$
<u>PIPEFITTERS</u>									
Pipefitter Journeyman	\$22.00	MH	\$0.00	19.72%	\$2.95	\$29.29	\$2.93	\$4.39	\$36.61
Pipefitter Foreman	\$25.00	MH	\$100.00	19.72%	\$2.95	\$42.88	\$4.29	\$6.43	\$53.60
Pipe Welder	\$25.00	MH	\$0.00	19.72%	\$2.95	\$32.88	\$3.29	\$4.93	\$41.10
<u>TEAMSTER</u>									
Teamster Off Road	\$18.00	MH	\$0.00	19.72%	\$2.95	\$24.50	\$2.45	\$3.67	\$30.62
Teamster On Road	\$18.00	MH	\$0.00	19.72%	\$2.95	\$24.50	\$2.45	\$3.67	\$30.62
Teamster Mixer	\$18.00	MH	\$0.00	19.72%	\$2.95	\$24.50	\$2.45	\$3.67	\$30.62
Teamster Trailer	\$18.00	MH	\$0.00	19.72%	\$2.95	\$24.50	\$2.45	\$3.67	\$30.62
<u>PROJECT MANAGEMENT</u>									
Project Sponsor	\$65.00	MH	\$100.00	18.02%	\$10.80	\$97.51	\$9.75	\$14.63	\$121.89
Construction Manager	\$70.00	MH	\$100.00	18.02%	\$10.80	\$103.41	\$10.34	\$15.51	\$129.27
Project Manager I	\$45.00	MH	\$100.00	18.02%	\$10.80	\$73.91	\$7.39	\$11.09	\$92.39
Project Manager II	\$55.00	MH	\$100.00	18.02%	\$10.80	\$85.71	\$8.57	\$12.86	\$107.14
Superintendent General	\$50.00	MH	\$100.00	18.02%	\$10.80	\$79.81	\$7.98	\$11.97	\$99.76
Superintendent Carpenter	\$45.00	MH	\$100.00	18.02%	\$10.80	\$73.91	\$7.39	\$11.09	\$92.39
Superintendent Labor	\$40.00	MH	\$100.00	18.02%	\$10.80	\$68.01	\$6.80	\$10.20	\$85.01
Project Engineer 1	\$30.00	MH	\$100.00	18.02%	\$10.80	\$56.21	\$5.62	\$8.43	\$70.26
Project Engineer 2	\$35.00	MH	\$100.00	18.02%	\$10.80	\$62.11	\$6.21	\$9.32	\$77.63
General Foreman Project	\$40.00	MH	\$100.00	18.02%	\$10.80	\$68.01	\$6.80	\$10.20	\$85.01
General Foreman Carpenter	\$35.00	MH	\$100.00	18.02%	\$10.80	\$62.11	\$6.21	\$9.32	\$77.63
General Foreman Laborer	\$30.00	MH	\$100.00	18.02%	\$10.80	\$56.21	\$5.62	\$8.43	\$70.26
Survey Manager	\$50.00	MH	\$100.00	18.02%	\$10.80	\$79.81	\$7.98	\$11.97	\$99.76
Surveyor	\$40.00	MH	\$100.00	18.02%	\$10.80	\$68.01	\$6.80	\$10.20	\$85.01

# Arkansas River Levee Improvements - Phase 3

## Labor Rate Schedule

Tuesday, October 04, 2016

Classification	Base Rate	Unit	Per Diem	Total Tax %	Total Fringe \$	Total Direct Cost	Overhead 10%	Profit 15%	Total Billable Rate
	\$		\$	%	\$	\$	\$	\$	\$
Surveyor Helper	\$30.00	MH	\$0.00	18.02%	\$10.80	\$46.21	\$4.62	\$6.93	\$57.76
Corporate Safety Manager	\$60.00	MH	\$100.00	18.02%	\$10.80	\$91.61	\$9.16	\$13.74	\$114.52
Safety Manager	\$40.00	MH	\$100.00	18.02%	\$10.80	\$68.01	\$6.80	\$10.20	\$85.01
Safety Engineer	\$30.00	MH	\$100.00	18.02%	\$10.80	\$56.21	\$5.62	\$8.43	\$70.26
Quality Manager	\$40.00	MH	\$100.00	18.02%	\$10.80	\$68.01	\$6.80	\$10.20	\$85.01
Quality Engineer	\$30.00	MH	\$100.00	18.02%	\$10.80	\$56.21	\$5.62	\$8.43	\$70.26
Secretary/Runner	\$16.00	MH	\$0.00	18.02%	\$10.80	\$29.68	\$2.97	\$4.45	\$37.10
Security/Watchman	\$16.00	MH	\$0.00	18.02%	\$10.80	\$29.68	\$2.97	\$4.45	\$37.10



# ASI Constructors, Inc.

## Arkansas River Levee Improvements - Phase 3

### Equipment Rate Schedule

Tuesday, October 04, 2016

Equipment Code	Description	Type	Rent		Operating		Total Hourly		Overhead		Profit		Total Billable	
			Rate		Rate		Cost		10%		15%		Rate	
			\$/HR		\$/HR		\$/HR		\$		\$		\$	
8051001	1/2 Ton Pickup	I	\$4.25		\$6.02		\$10.27		\$1.03		\$1.54		\$12.84	
8051501	3/4 Ton Pickup	I	\$4.75		\$7.53		\$12.28		\$1.23		\$1.84		\$15.35	
8120501	Fuel/Lube -Single Axle	I	\$7.50		\$7.58		\$15.08		\$1.51		\$2.26		\$18.84	
8121502	Service/Mechanics Truck	I	\$14.99		\$9.20		\$24.19		\$2.42		\$3.63		\$30.23	
8122501R	Water Truck -4,000 Gal Tandem - Rental	O	\$21.44		\$21.12		\$42.56		\$4.26		\$6.38		\$53.21	
8130501R	Cat 725 / Volvo A25 (25 Ton) - Rental	O	\$41.79		\$24.82		\$66.61		\$6.66		\$9.99		\$83.27	
8151001R	Cat 950/Kom 380/JD 644 (4.0 CY) - Rental	O	\$30.35		\$18.76		\$49.11		\$4.91		\$7.37		\$61.38	
8158001R	Skidsteer - Lg Track (10,000 LB) - Rental	O	\$17.47		\$11.42		\$28.89		\$2.89		\$4.33		\$36.11	
8201001R	Cat D4/JD 650 - Rental	O	\$13.95		\$14.08		\$28.03		\$2.80		\$4.20		\$35.04	
8302001R	Cat 330 / Kom 300 (30-Ton Class) - Rental	O	\$37.93		\$36.91		\$74.84		\$7.48		\$11.23		\$93.55	
8370301	8'x20' Trench Box/Shore Box	I	\$8.75		\$0.40		\$9.15		\$0.92		\$1.37		\$11.44	
8370305	Bedding Box	I	\$3.75		\$0.17		\$3.92		\$0.39		\$0.59		\$4.90	
8461501R	Cat CP 433 Smooth/Vibro (7 Ton) - Rental	O	\$16.87		\$13.95		\$30.82		\$3.08		\$4.62		\$38.53	
8469601	Diesel Plate Compactor	I	\$5.20		\$5.09		\$10.29		\$1.03		\$1.54		\$12.87	
8504001	Kob CK 1000III/Man-222/LB 21 (100 Ton)	I	\$50.37		\$24.93		\$75.30		\$7.53		\$11.30		\$94.13	
8512501R	Grove RT 600 (50 Ton) - Rental	O	\$32.51		\$15.32		\$47.83		\$4.78		\$7.18		\$59.79	
8550501R	Forklift - 8,000 LB Ext Boom - Rental	O	\$13.69		\$9.17		\$22.86		\$2.29		\$3.43		\$28.58	
8553001R	Manlift - 65 ft - Rental	O	\$13.80		\$8.60		\$22.40		\$2.24		\$3.36		\$28.00	
8606001	Genset - 20-30 KW	I	\$3.33		\$8.20		\$11.53		\$1.15		\$1.73		\$14.41	
8607001R	Light Plant - Rental	O	\$3.45		\$8.79		\$12.24		\$1.22		\$1.84		\$15.30	
8607501	Diesel Welder (350-400 Amp)	I	\$1.67		\$5.86		\$7.53		\$0.75		\$1.13		\$9.41	
8612001	Compressor - 185 CFM	I	\$2.91		\$6.00		\$8.91		\$0.89		\$1.34		\$11.13	

## Arkansas River Levee Improvements - Phase 3

### Equipment Rate Schedule

Tuesday, October 04, 2016

Equipment Code	Description	Type	Rent Rate \$/HR	Operating Rate \$/HR	Total Hourly Cost \$/HR	Overhead 10% \$	Profit 15% \$	Total Billable Rate \$
8624901	Pressure Washer 5,000-6,000 PSI	I	\$6.26	\$3.83	\$10.09	\$1.01	\$1.51	\$12.61
8755001	Moyno/Grout Mixer & Pump	I	\$12.46	\$3.29	\$15.75	\$1.58	\$2.36	\$19.69
8801701	Concrete Pump Truck - 36 M	I	\$62.46	\$28.80	\$91.26	\$9.13	\$13.69	\$114.07
8806501	Conc Saw - 24" Walk Behind	I	\$3.51	\$4.53	\$8.04	\$0.80	\$1.21	\$10.04
8806801	Razorback Truss Screed / Roller	I	\$8.36	\$0.58	\$8.94	\$0.89	\$1.34	\$11.18
8851501	12x60 Office	I	\$2.25	\$0.11	\$2.36	\$0.24	\$0.35	\$2.95
8852501	Tool/Storage Van	I	\$0.70	\$0.03	\$0.73	\$0.07	\$0.11	\$0.91
8854001	Sea Container - 20'	I	\$0.42	\$0.02	\$0.44	\$0.04	\$0.07	\$0.54
8920501	Robotic Total Station	I	\$5.00	\$0.45	\$5.45	\$0.54	\$0.82	\$6.81
8921001	GPS Survey Equipment	I	\$7.50	\$0.68	\$8.18	\$0.82	\$1.23	\$10.22
8921501	Laser Systems - RCC/Grade Control	I	\$2.50	\$0.15	\$2.65	\$0.27	\$0.40	\$3.31



# INSURANCE CERTIFICATE





# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
09/30/2016

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES FOLLOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Holmes Murphy & Assoc - WDM  PO Box 9207  Des Moines, IA 50306-9207	1-800-247-7756	CONTACT NAME: PHONE (A/C, No, Ext): FAX (A/C, No): E-MAIL ADDRESS:  INSURER(S) AFFORDING COVERAGE  INSURER A: TRAVELERS IND CO OF AMER INSURER B: CHARTER OAK FIRE INS CO INSURER C: WESTCHESTER FIRE INS CO INSURER D: ZURICH AMER INS CO INSURER E: INSURER F:	NAIC #  25666 25615 21121 16535
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**COVERAGES**

CERTIFICATE NUMBER: 48171059

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> AI#CGD246 (0805) <input checked="" type="checkbox"/> WOS CGD316 (1111) GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC <input type="checkbox"/> OTHER:	X	X	CO4H09198A	07/01/16	07/01/17	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COMP/OP AGG \$ 4,000,000 \$
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> AI & WOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS <input checked="" type="checkbox"/> CAT353 (0310)	X	X	8104H09198A	07/01/16	07/01/17	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 10,000	X	X	G27473374003	07/01/16	07/01/17	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 \$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	N/A	VTRN-UB-5834B791-15.	07/01/16	07/01/17	<input checked="" type="checkbox"/> PER STATUTE OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Rented & Leased Equipment			CPP 0198556-00	07/01/16	07/01/17	Per Item/Occurrence 2,500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Re: Phase 3 of Levee Repairs

\*See Attachment\*

**CERTIFICATE HOLDER****CANCELLATION**

Pueblo Conservancy District

c/o Kidd Engineering  
101 East Evans Ave

Pueblo, CO 81004

USA

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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hvencilwds  
48171059

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## SUPPLEMENT TO CERTIFICATE OF INSURANCE

DATE

09/30/2016

NAME OF INSURED: ASI Constructors, Inc.

Certificate Holder is an Additional Insured as respects General Liability, Automobile, and Umbrella policies, pursuant to and subject to the policy's terms, definitions, conditions and exclusions. Waiver of Subrogation applies to Certificate Holder, as respects Workers' Compensation, General Liability, Automobile, and Umbrella policies, pursuant to and subject to the policy's terms, definitions, conditions and exclusions. The Workers Compensation, General Liability, and Automobile includes an endorsement providing that 30 days notice of cancellation or coverage change will be furnished to the Certificate Holder when there is a written contract between the Named Insured and the Certificate Holder that requires such status. The General Liability policy contains a special endorsement with Primary and Noncontributory wording. Certificate Holder is named as Loss Payee as their interest may appear with regard to Rented/Leased Equipment.



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
09/30/2016

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES 'LOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Holmes Murphy & Assoc - WDM PO Box 9207 Des Moines, IA 50306-9207 INSURED ASI Constructors, Inc. 1850 E. Platteville Blvd Pueblo West, CO 81007	1-800-247-7756	CONTACT NAME: PHONE (A/C, No, Ext): FAX (A/C, No): E-MAIL ADDRESS: INSURER(S) AFFORDING COVERAGE INSURER A: STARR SURPLUS LINES INS CO INSURER B: INSURER C: INSURER D: INSURER E: INSURER F:	NAIC # 13604
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## COVERAGES

CERTIFICATE NUMBER: 48172317

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB EXCESS LIAB DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input type="checkbox"/> N/A					PER STATUTE <input type="checkbox"/> OTH-ER <input type="checkbox"/> E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	Builders Risk Blanket Monthly Reporting Reported Projects Only			SLSTCON11030015	07/01/15	07/01/16	Limit per site 25,000,000 Special Form 10,000Ded.

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Re: Phase 3 of Levee Repairs

## CERTIFICATE HOLDER

## CANCELLATION

Pueblo Conservancy District c/o Kidd Engineering 111 East Evans Ave Pueblo, CO 81004 USA	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE 
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