

Little Rock Public Works Street and Drainage Improvement Projects

Overview

Through funding provided by the City of Little Rock sales tax and municipal bond program, Hawkins-Weir is providing engineering design services for street and drainage improvements. Our contract provided design services for 17th Street, 8th & Brown Streets, Woodlane Drive, and Adams Street. Each project area is described in more detail as follows:



17th Street

The 17th Street project consists of street reconstruction and vertical alignment improvements, as well as extensive drainage upgrades to alleviate ponding of stormwater within the street. The design calls for approximately 950 feet of drainage pipe ranging in size from 18 to 30-inches in diameter and reconstruction of approximately three blocks of local (residential) street.



8th & Brown Streets

The 8th & Brown Street project consists primarily of drainage enhancements to mitigate localized flooding. The design includes approximately 450 feet of drainage structures ranging in size from 18-inches in diameter pipe to 5 feet x 3 feet reinforced concrete box culverts.

Woodlane Drive

The project's primary focus is to improve localized flooding issues



near Union Station through storm drainage piping and inlet capacity upgrades.

Adams Street

This project along Adams Street is primarily comprised of drainage enhancements that will remove and replace an existing native rock open channel through 4 blocks of residential area. Due to the channels close proximity to Adams Street, reconstruction of the street is also included.



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HW Team News



HW welcomes Bill Stagg, P.E., C.F.M.® Bill joined HW's Little Rock office in July 2015, and brings a broad

range of experience in municipal water and wastewater utility planning, design, and project management to the firm. Involved in long-range planning for infrastructure improvements, he has expertise in hydraulic analysis for water distribution, wastewater collection, and stormwater. He also has extensive experience in pavement evaluation and research as a pavement management engineer in both the public and private sectors.



Congratulations to Josh Durham, P.E., in our Van Buren office for attaining his Professional Engineering License

in Oklahoma. Josh is also a licensed PE in Arkansas, an Arkansas Department of Environmental Quality licensed Class II Wastewater Treatment Operator, and assists our firm by implementing our information technology initiatives.



Congratulations to James Hamilton in our Van Buren office for the maintenance of his many professional licences: an

American Concrete Institute Grade I Concrete Field Testing Technician, an Arkansas Department of Health Class IV Water Distribution Operator, an Arkansas Department of Environmental Quality Class II Wastewater Treatment Operator, a Certified Flood Plain Administrator, a Journeyman Plumber, and a Plumbing Inspector.



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A Season of Giving

If you haven't already, our clients should soon be receiving our company Christmas card. The artwork on these Christmas cards was created by a patient at the Arkansas Children's Hospital. The sale of these Christmas cards by the Arkansas Children's Hospital Auxiliary not only raises community awareness of the hospital, it also represents a fundraising effort for service projects to aid patients of the Arkansas Children's Hospital and their families. This is just one small way that we, at Hawkins-Weir, celebrate the Christmas holiday through giving and aiding in the Arkansas Children's Hospital Auxiliary's mission.

We also celebrate the Christmas holiday by recognizing our clients through honorariums and charitable donations to the following non-profit organizations:

- Arkansas Academy of Civil Engineers
- University of Arkansas Fort Smith Foundation
- Arkansas Children's Hospital
- Gregory Kistler Treatment Center
- Fort Smith Public School Foundation
- Van Buren School District Education Foundation
- Sallisaw Youth League

The Arkansas Academy of Civil Engineers awards scholarships annually to civil engineering students that are enrolled at the University of Arkansas' College of Engineering in Fayetteville, Arkansas. Similarly, the University of Arkansas Fort Smith Foundation awards scholarships annually to engineering students enrolled on their campus. Arkansas Children's Hospital is the only pediatric medical center in Arkansas. Known for being one of the largest pediatric medical providers in the United States, Arkansas Children's Hospital proudly provides

world-class medical care to children and families throughout Arkansas and surrounding states. The mission of the Gregory Kistler Center is to provide support and learning opportunities for children and adults with development disabilities and to provide all individuals an opportunity for a full and productive life through therapy services. Both the Fort Smith Public Schools Foundation and the Van Buren School District Education Foundation are independent, non-profit corporations created to enhance the quality of education in their respective school districts by providing funding necessary for programs not otherwise funded by the School Districts themselves. The Sallisaw Youth League's mission is to support and promote sports and other recreational activities for the youth of Sequoyah County, Oklahoma. The underlying emphasis of our company's charitable giving is on education, our youth, and those less fortunate due to some form of medical condition, and we are proud of these charitable partnerships that we have cultivated in honorarium of our clients.

Amid all of the hustle and bustle of the holidays, our Christmas wish for each of you is to make time to spend with family and friends and make that memory, trim that tree, give thanks for the blessings in your life, and smile in knowing that a donation has been made in your name to one of the aforementioned charities this Christmas season!

On behalf of all the employees of Hawkins-Weir Engineers, Inc., we wish you and your family a very Merry Christmas and Happy New Year!

God Bless,
Brett D. Peters
President & CEO

Bridges of Crawford County, Arkansas

The August 2007 collapse of the I-35W Bridge over the Mississippi River in Minneapolis called attention to the state of our nation's bridges. That bridge collapse resulted in 13 fatalities. The Federal Highway Administration (FHWA) has since estimated that 1 in 9 of the nation's 607,000 bridges is structurally deficient, while the average bridge age in the U.S. is approaching the half century mark. In 2013, the American Society of Civil Engineers gave America's bridge infrastructure a grade of C+ stating that federal, state, and local governments need to increase bridge investment from \$12.8 billion to \$20.8 billion annually to

address the identified \$76 billion in needs for deficient bridges across the U.S. by the year 2028.

Judge John Hall of Crawford County, Arkansas was elected in November 2006 and took office in January 2007. Unfortunately, it did not take him long to learn that the County's bridge infrastructure that he inherited was not immune to these deficiencies. In Spring 2008, heavy rains resulted in irreparable damage to the Rock Creek Bridge located near Mulberry, Arkansas. Working closely with Judge Hall and Dennis Gilstrap, Crawford County Department of Emergency Management (CC DEM), Hawkins-Weir assisted the County in the preparation of a successful funding application to FEMA that was awarded 87.5% grant funds with the remaining 12.5% paid for locally. Hawkins-Weir was also responsible for the design and construction management of the \$204,400 project that was completed within six months of the bridge closure.

The repair of the Rock Creek Bridge prompted a proactive approach by Judge Hall to

address other bridge deficiencies in the County. Working closely again with Judge Hall and Dennis Gilstrap of CC DEM, Hawkins-Weir assisted the County in the preparation of successful funding applications for the Pirates Way Bridge in Cedarville in 2010 (\$152,000), Richmond Road Bridge near Van Buren in 2011 (\$232,000), Shiloh Road Bridge in 2012 (\$254,000), and the Pointer Trail East Bridge near Van Buren in 2013 (\$216,000). All of these projects were awarded 50% grant funding from the Arkansas Department of Emergency Management (AR DEM) through their Hazard Mitigation Grant Program. The balance of the project funding was generated locally from the County, with the exception of the Richmond Road Bridge and the Pointer Trail East Bridge, where the County partnered locally with the City of Van Buren, Arkansas. Hawkins-Weir was also responsible for the design and construction management of these projects.

In 2011, Hawkins-Weir began assisting Judge Hall and Dennis Gilstrap in the preparation of a funding application to FEMA to replace the Pevehouse Road low water bridge with a multi-span, 150-foot long, composite steel, reinforced concrete bridge over Louemma Creek at the corporate limits of Van Buren. The funding application was ultimately approved by FEMA, and marked the first time that this type of grant funding was used for anything but Safe Rooms. FEMA funding consisted of 75% grant funds with the local 25% in funding divided between the County and the City of Van Buren, Arkansas. The Pevehouse Road Bridge project's

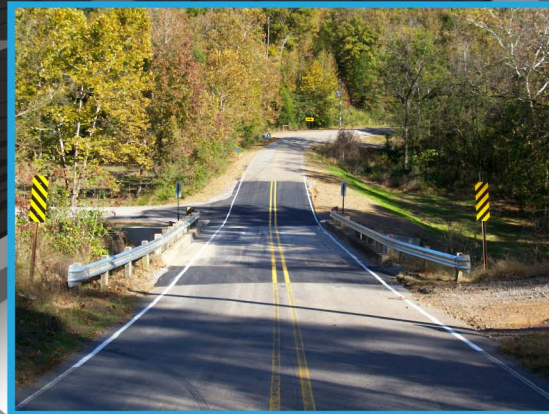
estimated cost is just over \$1.0 million, and is scheduled to be completed later this month. The replacement of the low water crossing with a bridge will improve the ability of emergency services to access both County and City residents located north of the bridge during rainfall events when the low water crossing would become impassable.

In addition to Judge Hall's focus on County Bridge infrastructure during his near decade in office, he has led the modernization of the Crawford County Highway Department through the lease of 11 new road graders and the purchase of 9 tri-axial dump trucks, 3 bulldozers, and related pavement laydown equipment. The Crawford County Highway System consists of approximately 1,100 miles of roads, 400 miles of which are paved, with the remaining 700 miles in gravel. In addition to maintaining this extensive highway system, the Crawford County Highway Department also constructs/reconstructs 10 to 15 miles of roads annually, including resurfacing projects. Judge Hall commends the efforts of Chris Keith, who heads up the Crawford County Highway Department, as well as all of its employees by stating that none of these endeavors would have been possible without them.

Judge Hall is also quick to point out that the continued support of the Quorum Court was paramount in bringing both the bridge and highway infrastructure improvements into fruition. We, at Hawkins-Weir, appreciate the opportunity to assist Judge Hall and the County in making these public safety improvements for the residents of Crawford County, Arkansas. [HW](#)



Rock Creek Bridge damage near Mulberry, AR



Rock Creek Bridge after repair



Pevehouse Road Bridge



Pointer Trail East Bridge



Shiloh Road Bridge



Richmond Road Bridge



Cedarville Pirates Way Bridge



Cedarville Pirates Way Bridge