



Spring 2018 Construction Update

Ward 4 – Southeast

Engineering Department

Leetown Creekway Box Culvert from Union Pacific Railroad to University Avenue

This project includes the construction of a 12-foot by 5-foot box culvert from University Avenue to Dean Avenue and a 12-foot by 7-foot box culvert from Dean Avenue to the Union Pacific Railroad. The new box culvert will alleviate storm water flows to the existing 5-foot by 6-foot concrete box culvert and existing 48-inches diameter culvert.

The project was awarded to S.M. Hentges & Sons Inc. for \$7,795,330.07. Construction started in October 2017 and the contractor has since completed the box culvert installation from Dean Avenue to Walker Street. The contractor is now working on pavement restoration associated with the culvert construction. Installation of the remaining box culvert south of Dean Avenue is expected to start later this fall and the project completion is anticipated in 2019.



E. McKinley Avenue Widening – S.E. 7th Street to S.E. 14th Street with Access Bridge

This project was awarded to Corell Contractor, Inc. for \$4,885,816.20. The project includes reconstructing E. McKinley Avenue from a two-lane roadway to a three-lane roadway with center turn lane from just west of SE 7th Street to the intersection with SE 14th Street. The reconstruction project also includes sidewalk construction and installation of new storm sewer and water main. Another component of the project includes constructing a new access between Southdale Center and E. McKinley Avenue, including a continuous concrete slab (CCS) bridge across Yeader Creek. The new access will replace the existing access road located near the intersection of E. McKinley Avenue and SE 14th Street.

Bridge construction began in early 2018 and is nearly complete. Storm sewer and water main installation along E. McKinley Avenue is progressing and it is anticipated that the roadway will be open to through traffic between SE 7th Street and the new access road by December 2018. Remaining construction along E. McKinley Avenue between the new access road and SE 14th Street will be completed in 2019.

Agrimergent Storm Sewer

This project will improve storm water drainage along Vandalia Road, provide storm sewer access to the Regional Detention Basin for future Agrimergent Technology Park development, and provide a storm water outlet pipe for the future Southeast Connector project from S.E. 30th to Highway 65. The project included various size storm sewer pipe, storm sewer intakes and manholes, and ditch grading. The Agrimergent Storm Sewer Phase 1 project was awarded to RW Excavating Solutions for \$1,059,070 and has been completed. Phase 2 was awarded to S.M. Hentges & Sons, Inc. for \$2,754,041.28 and construction will begin this summer.



2018-2019 HMA Pavement Scarification and Resurfacing Program

This project provides for maintenance of residential and arterial streets utilizing surface scarification and hot mix asphalt overlay to improve the surface condition and to extend the useful service life of the streets. The contract was awarded to Grimes Asphalt & Paving Corporation at a contract amount of \$885,168. Work on this citywide project will begin in July, and is scheduled to be completed by June 30, 2019. The following streets located in Ward 4 are scheduled to be resurfaced:

<u>Street</u>	<u>From</u>	<u>To</u>
SE 5th Street	E Philip Street	E McKinley Avenue
SE 7th Street	E Lacona Avenue	E Bell Avenue
E Broad Street	SE 5th Street	SE 7th Street
King Avenue	SE 8th Court	SE 14th Street
E Kirkwood Avenue	South Union Street	Indianola Avenue
Rose Avenue	SW 2nd Street	SW 3rd Street

2018 Sewer Lining Program

This project provides for the lining of deteriorated sanitary sewers throughout the city. The installation of the liner restores the structural integrity of the pipe to prevent failures and also reduce groundwater infiltration into the sanitary sewer system. Construction on this project began on March 19, 2018 and is completed in Ward 4. The work will continue into the fall and should be completed this year. The following sewer was lined in Ward 4:

<u>Street</u>	<u>From</u>	<u>To</u>
Logan Avenue	E. 27th Street	320' East

2018 HMA Residential Paving Program

This project reconstructs residential streets by removing the deteriorated existing pavement and replacing it with a new hot mix asphalt pavement. The project also includes constructing ADA compliant sidewalk curb ramps within the project areas. The contract was awarded to Des Moines Asphalt & Paving at an estimated cost of \$940,053. Work on this citywide project will begin this summer and will be completed this construction season. The following streets located in Ward 4 are scheduled to be reconstructed:

<u>Street</u>	<u>From</u>	<u>To</u>
SE 16th Court	E. Army Post Road	Dead End North
SE 19th Street	E. Army Post Road	Dead End North
E. Marion Street	Indianola Avenue	Dead End East

S.E. 1st and Van Buren Storm Sewer

This project includes the construction of a new 60-inch reinforced concrete pipe storm sewer from SE 1st Street to SE 3rd Street, located just north of E. Livingston Avenue. The new storm sewer will help improve stormwater drainage in the general vicinity of the McKinley School/Columbus Park neighborhood.

The project was awarded to S.M. Hentges & Sons Inc. for \$1,368,195.85. Construction will start this summer and should be completed this fall.

Locust Street Bridge over the Des Moines River

The Locust Street Bridge over the Des Moines River project is being let through the Iowa Department of Transportation in June 2018 with bids being brought forward to the City Council for consideration of award. Locust Street Bridge is included in the City's Federal TIGER Grant. The existing Locust Street Bridge was built in 1909 and was last rehabilitated in 1967. The existing bridge is considered structurally deficient, although still completely safe for traveling public. Through life cycle cost analysis, it is more cost effective to build a new bridge and a new bridge will be more hydraulically efficient.

The bridge is planned to close after the Iowa State Fair this fall. Locust Street will be closed between 2nd Avenue and Robert D. Ray Drive. The signed traffic detour route will use the new Grand Avenue bridge to direct traffic around the bridge closure. Other alternate routes that can be used include Walnut Street, Martin Luther King Jr. Parkway, I-235, or University Avenue. The Principal Riverwalk will also be closed on the west side of the river and will be detoured along 2nd Avenue. Traffic across the bridge will be restored by end of 2019 with the project being completed in 2020.

The proposed concrete beam bridge will include 12-foot sidewalks on both the north and south sides of the bridge, one (1) lane of parallel parking on the north and south sides and two (2) lanes of traffic (one (1) east bound, one (1) west bound). The bridge railing will be galvanized steel in place of a typical concrete, allowing for a better view of the river for pedestrians. As illustrated in the graphic rendering below, the exterior of the bridge will be made of painted metal panel façade that create a 'scalloped' effect on both the north and south side of the bridge. The scalloped edge will mask the standard IDOT concrete beams that will form the superstructure of the bridge. Both the metal façade and the pedestrian railing will feature LED accent lighting. The aesthetic scheme is the same as Grand Avenue.



Court Avenue, S.W. 1st Street, and Scott Avenue Bridge Rehabilitation

In July 2016, the City received an \$8 million federal TIGER transportation infrastructure grant, known as “Bridges to Opportunity: Des Moines’ Community Connection”. This project includes the historic renovation of the Court Avenue Bridge, structural rehabilitation of Scott Avenue, as well as the structural rehabilitation of SW 1st Street Multi-Use Pedestrian Trail bridge. The TIGER Grant also includes the Locust Street Bridge which will be let under a separate contract.

The combined project for these three bridges was let through the Iowa DOT and was awarded to Jasper Construction Services, Inc. for \$8,419,431.30. Court Avenue bridge is the first bridge to be under construction and recently closed for construction in April. Court Avenue is planned to be open to traffic in late 2018. Scott Avenue bridge is planned to be closed for construction in spring 2019 and open to traffic in late 2019. SW 1st Multi-Use Trail bridge is planned to be closed for construction in spring 2020 and open to use in late 2020.

The repairs being completed on the Court Avenue bridge will preserve the historic integrity of the bridge. The project includes the removal and replacement of bridge sidewalks, high performance deck overlay, replacement of bridge joints, replacement of railing with new limestone railing and granite base, limestone cleaning and repairs to the exterior bridge façade elements, replacement of architectural street lighting, as well as typical traffic control, pavement markings, site restoration, and mobilization.

