

Fall 2011 Construction Update

Ward 4 – Council Member Brian Meyer

Engineering Department

Jeb E. Brewer, P.E., City Engineer

Fire Department Training and Logistics Facility

2715 Dean Avenue

The complete building massing is now evident with all the major structure of the building in place. The building will house Fire Department Administration, maintenance, Quarter Master warehouse, training bays and training classrooms. The facility should be ready for use in the fall of 2012.



Fire Station Emergency Generator, HVAC, and Sprinkler Improvements

This project replaced old, undersized emergency generators at Stations 2 thru 9. Sprinklers and smoke/fire alarm notification systems were installed at the four remaining stations without these systems (No. 2, 5, 7 and 9). On May 23, 2011 City Council awarded the purchase of the nine emergency generators from Electrical Engineering & Equipment for \$302,055. On June 13, 2011 City Council awarded the construction contract to Biermann's University Electric Company, Inc. in the amount of \$656,763. Construction is substantially complete and the new systems are operational.

McKinley Avenue Widening at South Union Street

Reilly Construction Co., Inc. began work on this \$1.1 million project in April 2011. The project is the complete reconstruction of this intersection including new traffic signals, new water mains, new storm sewers, new sidewalks, driveways, and a 3-lane Portland cement pavement which includes left-turn lanes in all four directions at the intersection. Construction is being completed in three phases. Phases 1 and 2 are complete. Phase 3 construction is expected to be completed in November 2011.

S.E. 6th Street Widening – Court Avenue to the Des Moines River

This project was let by the City and the low bidder was Elder Corporation for \$1,744,999.99. This project will reconstruct the existing roadway into a three-lane roadway with one lane in each direction along with a center left-turn lane and bike lanes. The roadway will also be improved to an urban standard section with curbs and storm sewer. The widening project will help accommodate existing traffic demands on this collector roadway, as well as the anticipated increase in traffic volumes anticipated once the Southeast Connector is constructed. This project will include grading, pavement, storm sewers and intakes, and other incidental items.



The project is divided into four phases. The first phase is the road construction from Scott Avenue to Maury Street, Phase 2 is from Court Avenue to Raccoon Street, Phase 3 is Maury Street to the Des Moines River Bridge, and the final phase is reconstruction of the intersection of S.E. 6th Street and Scott Avenue.

Phase 1, Phase 3, and Phase 4 are complete including traffic signals at S.E. 6th and Scott Avenue. These phases are all south of the Southeast Connector, and the road was re-opened at the end of November 2010.

On May 9, the City Council approved a plan to modify the phasing of the construction of the north section (from Raccoon Street to Court Avenue) of this project until the spring of 2012. Modifying the phasing will be beneficial to the City for several reasons. Recently the Norfolk Southern Railroad approached the City with the possibility of eliminating their two crossings due to limited usage by the railroad. If the City is able to eliminate one or both of these crossings, it will save the City a substantial amount of money for surface crossings and signal installation, improve the ride of this section of roadway, and eliminate future maintenance of the crossings. Also, allowing S.E. 6th Street to remain open in 2011 will help to alleviate traffic congestion near other downtown construction projects. The project should be complete in 2012.

Jackson Avenue Detention Basin Pump Station

This \$5.8 million project includes construction of a storm water pump station at the Des Moines River levee to rapidly empty the Jackson Avenue Detention Basin into the Des Moines River during high river flows. It also includes regrading, drainage flumes and subdrain in Jackson Avenue basin along with a 14 foot by 5 foot reinforced concrete box just west of SE 14th Street and north of Hartford Avenue, as well as some 42" storm sewer near SE 6th which will both improve storm drainage in the area of the detention basin. The work is nearly complete. The pump station is currently working as planned to pump storm water from the basin into the Des Moines River following a rain. The discharge height of these pumps has been increased 1.8 feet to comply with anticipated future flood elevations. The contractor is completing the automatic pump monitoring system and has finished the seeding and site restoration. The project is expected to be complete before Thanksgiving.

2011 Expanded Street Resurfacing Programs

These improvements are funded by gaming revenues in partnership with the City of Des Moines, Polk County, Prairie Meadows Race Track and Casino, and RACI. There are 18 streets included in two programs that will receive new hot mix asphalt surfaces. The two contracts were awarded to Des Moines Asphalt & Paving for \$3,555,000, and construction is complete. The following streets located in Ward 4 have been overlaid.

<u>Street</u>	<u>From</u>	<u>To</u>
E. Army Post Road (westbound)	1200 Block	1300 Block
E. 12 th Street	I-235	E. University Avenue
Dean Avenue	250' E. of E. 19 th Court	E. 24 th Street
Penn Avenue	E. Grand Avenue	Lyon Street
E. Pine Avenue	SE 38 th Street	SE 45 th Street
E. Walnut Street	E. 12 th Street	E. 14 th Street
E. Watrous Avenue	South Union Street	SE 5 th Street



Dean's Lake Storm Sewer Crossing Improvements

This project includes storm sewer improvements in four locations along the Dean's Lake drainage channel near E. 24th Street between the new pump station that was built last year along the Des Moines River, and extending northerly to just south of Dean Avenue. This \$1.4 million project began in late fall 2010 so that some critical directional boring sewer installation work under the Burlington Northern Santa Fe (BNSF) Railroad south of Maury Street and under the Union Pacific Railroad just south of Dean Avenue could be completed during relatively dry winter conditions. The installation of the 8 foot wide, 4 foot high concrete box storm sewer under Maury Street and under Market Street just west of the Titan Tire manufacturing plant were completed this year. The project is now substantially complete.



Southeast Connector

The Southeast Connector Project consists of a group of construction projects which extend in an easterly direction, a new street corridor system similar to the recently completed east/west section of the Martin Luther King Jr. Parkway.

Southeast Connector – Des Moines River Bridge with Levee, Sanitary Sewer, and Water Main Relocation

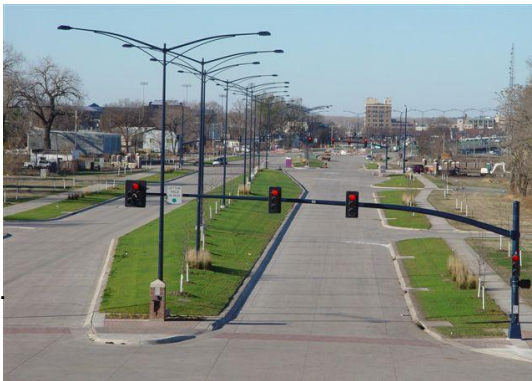
On April 7, 2008 City Council awarded a contract for this improvement to United Contractors, Inc. and Subsidiaries in the amount of \$12,256,914.02. This project consists of building two pre-tensioned, pre-stressed concrete beam bridges over the Des Moines River, levee relocation, removal and replacement of a 48-inch sanitary sewer, water main, HMA recreation trail, bridge accent and security lighting, and contaminated soil handling and disposal.



Construction began on April 21, 2008. The Southeast Connector bridges over the Des Moines River were opened to traffic on December 17, 2010. Project construction is 100% complete. Work remaining to be completed is the final project punch list and project audits. Project completion is anticipated in the fall/winter of 2011.

Southeast Connector Paving – S.E. 4th Street to S.E. 9th Street

On March 9, 2008 City Council awarded a contract for this improvement to Elder Corporation in the amount of \$3,356,000. This project consists of building various width 10-inch thick Portland Cement Concrete Pavement on the Southeast Connector and 8-inch thick Portland Cement Concrete Pavement on S.E. 5th, S.E. 7th, S.E. 8th, and S.E. 9th Streets.



The Southeast Connector project was opened to traffic on December 17, 2010. Project construction is 100% complete. Work remaining to be completed is the final project punch list and project audits. Project completion is anticipated in the fall/winter of 2011

Southeast Connector Paving – S.W. 2nd Street to S.E. 6th Street

On July 13, 2009 City Council awarded a contract for this improvement to Corell Contractor, Inc. & Subsidiary in the amount of \$6,366,096.13. This project consists of building various width 10-inch thick Portland Cement Concrete Pavement on the Southeast Connector, and 8-inch thick Portland Cement Concrete Pavement on S.E. 4th Street, S.E. 6th Street, and S.W. Water Street.

Construction began on July 20, 2009. The Southeast Connector project was opened to traffic on December 17, 2010. To date, approximately 99% of the project has been completed. Work remaining to be completed is landscaping, site restoration, final project punch list, and project audits. Project completion is anticipated in the fall/winter of 2011.

Indianola Avenue Widening from S.E. 16th Court to McKinley Avenue

This project includes reconstructing Indianola Avenue from S.E. 16th Court to McKinley Avenue. This project is the second phase of several projects to reconstruct and widen Indianola Avenue from S.E. 14th Street to Army Post Road. Indianola Avenue from S.E. 14th Street to E. Army Post Road is intended to be reconstructed as a “complete street” design. A “complete street” design includes accommodation for not only vehicular traffic, but also mass transit, pedestrians, commuter and recreational bicyclists, and other recreational users. The design included a 4-foot sidewalk on the east side of the roadway and an 8-foot multi-purpose trail (sidepath) on the west side. Both the sidewalk and sidepath will provide a safe route for students walking or biking to either Jackson Elementary School or Weeks Middle School at Indianola Avenue & Park Avenue. The 8-foot sidepath will also provide a continuous connection to the 10' trail through Ewing Park, and will accommodate pedestrians, recreational bikers, and in-line skaters. The project also incorporates a pedestrian underpass at Ewing Park. This will allow pedestrians to move across Indianola Avenue without encountering any traffic conflicts.

From SE 16th Court to Ewing Park, the proximity of existing homes and the limited available right-of-way width make a “complete street” design much more challenging. Two traffic lanes in each direction are still required to handle the anticipated traffic. A two-way left-turn lane will be provided from SE 16th Court to Ewing Park. A raised median will be provided from the north limit of Ewing Park to Yeader Creek.

The project also includes a new storm sewer system, utilities that will be relocated underground, and other incidental items. The project was awarded to Reilly Construction Co., Inc. for \$3,277,103.90. The contractor has installed the utility conduits on the west side of Indianola Avenue and is now installing conduits on the east side. This will allow the utility companies to relocate their facilities underground. The contractor has installed storm sewer from Yeader Creek north to S.E. 17th Court. The contractor plans to complete the storm sewer trunk line this fall. Traffic will be maintained during the 2011 construction and through the winter. In 2012 the roadway will be closed for the pedestrian underpass construction and the grading and paving operation. The project will be completed by winter 2012.

2011 Critical Sanitary Sewer Lining

This is a \$4,000,000 project to line deteriorating sanitary sewers throughout the City. The installation of a liner will restore the structural integrity of the pipe to prevent failures and also reduce the groundwater infiltration into the system. The funding for the project includes \$3,000,000 of CDBG monies. The low bidder on the project is SAK Construction. The work has begun.

Principal Riverwalk

Walnut Street to Grand Avenue West Side

This project includes that portion of the Riverwalk along the west bank of the Des Moines River from Walnut Street to Grand Avenue. The project features a 12-foot wide recreational trail for use by pedestrians, bicyclists, skaters and other non-motorized uses and encompasses asphalt pedestrian pavement, precast concrete pavers, stone paving, concrete pedestrian pavement, landscaping, a stone veneer floodwall, and other related items. A contract in the amount of \$2,849,000 has been awarded to Elder Corporation. High river levels have significantly impeded work progress and have pushed the completion date to the end of 2011. This project is funded with Federal Stimulus Funds under the American Recovery and Reinvestment Act of 2009 and Iowa State Recreation Trail funding. Construction is approximately 70% complete.

Court Avenue Kiosk and Landscaping

This project is located on the west side of the Des Moines River between Court Avenue and Walnut Street and from Grand Avenue north to the new pedestrian bridge. The work between Court Avenue and Walnut Street includes a Kiosk building and outdoor seating area for public use, recreation trail constructed with asphalt pedestrian pavement and precast concrete pavers, park amenities, landscaping, flood gates and a stone veneer floodwall. The work north of Grand Avenue includes construction of a recreation trail along the Des Moines River and a new sidewalk with concrete pavers along 2nd Avenue to provide connections to the Center Street Pedestrian Bridge. The project is funded and administered by the US Army Corp of Engineers. A contract in the amount of \$7,189,250 has been awarded to Cramer & Associates. Work on the flood wall is complete. Construction of the Kiosk building is underway. The trail between Grand Avenue and the pedestrian bridge is scheduled to be completed this fall. The Kiosk building and plaza between Court Avenue and Walnut Street is scheduled to be completed in the spring of 2012.

North of the Armory Building



This project includes pedestrian trails constructed with precast concrete pavers, asphalt and concrete paving on both sides of the Armory Building. The trails also connect to the east side of the pedestrian bridge. The project is phased to allow pedestrian access to the trail north of the Armory at all times. The project also includes the reconstruction of the flood wall west of the Armory building, reconstruction of the employee parking lot and landscaping. A contract in the amount of \$761,274.50 has been awarded to Alliance Construction Group. Construction started June 2010 with the completion of the trail connection on the east side of the Center Street Pedestrian Bridge. The reconstruction of the flood wall between the Armory and the Des Moines River was delayed last summer due to very high river levels and possibility of flooding. The project was completed this fall. Funding is from IDOT State Recreation Trail and Storm Water Utility funds.

Riverwalk – North of E. Grand Avenue

This project includes the portion of the Principal Riverwalk along Robert D. Ray Drive from north of the Armory building driveway to E. Grand Avenue, and along the south side of E. Grand Avenue from Robert D. Ray Drive to east of the Des Moines River. This project features a 12.5-foot wide recreational trail along Robert D. Ray Drive and a 14-foot wide sidewalk along E. Grand Avenue. This project also includes storm sewer, street curb & gutter, landscaping, and street lighting. This project is funded with Iowa DOT State Recreational Trails funding. A contract for this improvement was awarded to Jasper Construction Services, Inc. in the amount of \$639,470.65. Construction began on Stage 1 (Robert D. Ray Drive from south of Des Moines Street to north of E. Grand Avenue) on July 25, 2011. The contractor has completed removals, storm sewer, underground electrical, irrigation piping, and sidewalk subslab for Stage 1 construction. Completion of Stage 1 construction is expected this fall. Project completion on all three stages is anticipated in the summer of 2012.