



Department Source: Public Works

To: City Council

From: City Manager & Staff

Council Meeting Date: January 2, 2018

Re: Public Hearing – Keene Street and I-70 Drive Southeast Intersection Improvement Project

Executive Summary

Setting a public hearing for February 5, 2018 for the construction of the Keene Street and I-70 Drive Southeast Intersection Improvement project, as shown on the attached location map. An Interested Parties (IP) meeting was held on March 15, 2016. The total estimated cost for the project is \$831,700 which includes design, easement acquisition, utility relocation, and construction.

Discussion

The Keene Street and I-70 Drive SE Intersection Improvement project was identified in the 10-year Capital Improvement Plan. Both roadways are classified as major collectors in the Columbia Area Transportation Study Organization (CATSO) 2030 Major Thoroughfare Plan and the City Major Roadway Plan. Keene Street is maintained by the City and I-70 Drive SE is maintained by MoDOT. For the period 2011 through 2015, there have been a total of six crashes at this intersection including three with injuries. Traffic crash information and traffic counts are attached.

The purpose of the Keene Street and I-70 Drive SE Intersection improvement project is to improve safety and alleviate traffic congestion. This location currently includes a T-intersection with a stop sign for northbound traffic. A grocery store is located on the southeast corner, a hotel on the southwest corner, and Interstate 70 borders the intersection to the north. A hospital, medical offices, hotels, apartments, and other businesses are located along Keene Street as well as a subdivision east of the intersection that utilizes both I-70 Drive and Keene Street to travel west into Columbia. The main movement of traffic through the intersection is northbound turning westbound and eastbound turning southbound. During peak hour traffic, vehicles back up on Keene Street to make a left turn onto I-70 Drive. The proposed roundabout will improve traffic flow through the intersection and eliminate the conflicting left turn movement. The roundabout will also allow pedestrians a safer crossing between the hotel and the grocery store.

The proposed intersection improvement project consists of a 120 ft. diameter inscribed circle single-lane roundabout. The roundabout will be designed to accommodate larger commercial vehicles and school busses. The design also includes splitter islands on all three legs and a 5 ft. sidewalk placed 4 ft. off the back of the curb on the SE corner. The proposed crosswalk on Keene Street will also be connected with the existing sidewalk on the southwest corner. The existing entrance to the grocery store on Keene Street will be replaced with a new commercial concrete entrance.



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Bicycles currently share the vehicle lanes on I-70 Drive SE, whereas the bicycle lanes are marked on Keene Street. Modification of some of the bicycle markings will be pursued to indicate shared space on Keene Street at the roundabout. Stormwater improvements will be made and street lighting will be installed.

The majority of the roundabout is located on MoDOT and City of Columbia right of way; however, a permanent street easement will be required from the property on the southeast corner. Temporary construction easements will be required from each of the properties on the south side. No significant environmental impacts are anticipated with this project. A copy of the preliminary plan is attached.

An IP meeting was held for this project on March 15, 2016. Nine (9) people signed in at the meeting and three (3) comments were received with positive responses (see attached). The project is planned for construction in 2021.

The January 2, 2018 council agenda includes a cost share agreement with MHTC (B384-17) for this project. The estimated construction cost to be funded with the cost share agreement is \$652,240. Of that cost MoDOT and the City will each fund 50% or \$326,120 each. The City's portion of the total costs will be funded from the quarter-cent Capital Improvement Program sales tax.

Fiscal Impact

Short-Term Impact: The total estimated project cost including design, easement acquisition, utility relocation and construction is \$831,700. The City's estimated share of \$505,580 includes design, right of way, utilities, and 50% of the construction costs to be funded from the quarter-cent Capital Improvement Program Sales Tax.

Long-Term Impact: Roundabout maintenance cost is estimated as \$1,500 per year.

Strategic & Comprehensive Plan Impacts

Strategic Plan Impacts:

Primary Impact: Infrastructure, Secondary Impact: Public Safety, Tertiary Impact: Economy

Comprehensive Plan Impacts:

Primary Impact: Infrastructure, Secondary Impact: Mobility, Connectivity, and Accessibility, Tertiary Impact: Economic Development

Legislative History

Date	Action
03/15/2016	IP Meeting held
05/15/2017	R66-17-Authorize City Manager to submit cost share application
12/18/2017	B384-17-Authorizing a cost share agreement with MHTC for the Keene Street and I-70 Drive SE Intersection improvement project



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Suggested Council Action

Adopt the resolution setting a public hearing for February 5, 2018 for the proposed construction of the Keene Street and I-70 Drive Southeast Intersection improvement project.