

**CITY COUNCIL  
COMMUNICATION:**

**ITEM \_\_\_\_\_**

**OFFICE OF THE CITY MANAGER  
CITY OF DES MOINES, IOWA**

**99-467**

**SYNOPSIS -**

**AGENDA:**

OCTOBER 18, 1999

**SUBJECT:**

IDOT PREDESIGN  
AGREEMENT FOR  
THE DOUGLAS  
AVENUE AT  
BEAVER AVENUE  
INTERSECTION  
IMPROVEMENTS

**TYPE:**

**RESOLUTION**  
ORDINANCE  
RECEIVE/FILE

**SUBMITTED BY:**

FLOYD BENTZ, P.E.  
CITY ENGINEER

The Iowa Department of Transportation (IDOT) has proposed a predesign agreement between the City and IDOT for the Douglas Avenue (US 6) at Beaver Avenue Intersection Improvements. This agreement provides for widening of Douglas to provide protected left turn lanes with raised medians and widening Beaver Avenue to provide one through lane in each direction as well as right and left turn lanes. New traffic signals will also be constructed with the intersection improvements. The total project cost, including right-of-way acquisition, is estimated to be \$2,160,000.

The City will provide design and construction inspection services for the project. IDOT will reimburse the City 100 percent for the cost for these services and will acquire all necessary right-of-way for the project. IDOT will let the project and the contract will be awarded through the City. The City will be responsible for 5 percent of right-of-way and construction costs estimated to be \$87,500. IDOT has prepared a predesign agreement for the proposed improvement.

**FISCAL IMPACT -**

Funding for the construction cost is shown in Fiscal Year 2002 in the current Capital Improvement Program budget, page 280, Beaver Avenue and Douglas Avenue Intersection Improvements. All costs incurred in preparing this project for bid letting will be reimbursed by IDOT.

**RECOMMENDATION -**

**Approval.**

**BACKGROUND -**

For many years the intersection of Douglas Avenue (US 6) at Beaver Avenue has been a high accident rate intersection. Since it is on the primary highway system, City staff has been working with IDOT to make improvements to this intersection. IDOT ranked this location as the fourth highest accident intersection statewide based on crash data between 1992-1996.

IDOT has approved this project for funding at an estimated cost of \$2,160,000 and has prepared a predesign agreement for intersection improvements. The City has been asked to provide preliminary survey, design, and construction inspection for this project. All of these costs would be 100 percent reimbursed by IDOT. The City will be responsible for 5 percent of the construction and Right-of-way acquisition costs. The total obligation for the City, based on preliminary cost estimates, is \$87,500.

The project will include widening of Douglas Avenue from approximately 600 feet west to 600 feet east of the Beaver Avenue intersection. This widening will provide for 150-foot left turn bays. Raised traffic medians will also be included to provide for access control on Douglas Avenue.

Beaver Avenue will be widened to provide a four-lane roadway from approximately 330 feet south to 360 feet north of Douglas Avenue. This roadway will provide for one through lane in each direction as well as left turn and right turn lanes. The improvement on Beaver Avenue will be primarily on the west side north of Douglas and on the east side south of Douglas. New traffic signals will also be included as part of the intersection reconstruction.