ITEM 37

OFFICE OF THE CITY MANAGER
DES MOINES, IOWA

CITY COUNCIL COMMUNICATION 97-172
APRIL 7, 1997 AGENDA

SUBJECT:	TYPE:	SUBMITTED BY:
E. 14TH STREET TRAFFIC SIGNAL INTERCONNECT SYSTEM	◆ RESOLUTION ORDINANCE RECEIVE/FILE	HAROLD E. SMITH CITY ENGINEER

SYNOPSIS —

The City of Des Moines has negotiated an agreement with Snyder & Associates, Inc. to provide engineering services to design an interconnected, computerized traffic signal system along E. 14th Street.

FISCAL IMPACT —

The engineering services provided by Snyder & Associates, Inc. will not exceed $67,000. General Obligation (GO) Bond funding for this improvement is included in the 1997-98 CIP Budget, Account No. 389742, Citywide Traffic Signal Interconnection.

RECOMMENDATION —

Approval of the Engineering Services Agreement with Snyder & Associates, Inc.

BACKGROUND —

On November 21, 1994, by Roll Call No. 94-4470, Council authorized the submittal of an application for Congestion Mitigation and Air Quality Improvement (CMAQ) program funds for the E. 14th Street Traffic Signal System. The IDOT has approved the CMAQ application, and on October 7, 1996, by Roll Call No. 96-3411, Council approved a standard project agreement with the IDOT for funding of this project.

The E. 14th Street Traffic Signal Interconnect System includes a total of 16 signalized intersections along E. 14th Street from University Avenue to just north of I-35/80, University Avenue from E. 14th Street to Pennsylvania Avenue, and Pennsylvania Avenue from University Avenue to I-235. Currently, these signals operate independently from each other and cannot provide coordinated traffic flow. The project design will include new signal controllers where needed, master controller software, and interconnection of the signals into a coordinated system.

Snyder & Associates, Inc. is currently under contract with the City to develop a Downtown Computerized Signal System that will also have the capability to coordinate the operation of all traffic signals in the City and to tie into any future traffic control systems that may be incorporated into the reconstruction of I-235 and the construction of ML King, Jr. Parkway. The E. 14th Street System will be designed to be compatible with and connected to the Downtown Computerized Signal System.

Included in the engineering services is the collection and analysis of traffic data to allow the development of timing plans for the E. 14th Street Signal System and preparation of final construction plans and specifications. The maximum cost of the engineering services is $67,600.

After completion of the Signal System design, the City will proceed with taking bids (through the IDOT) for a contractor to install new signal controllers, system detectors, and other Signal System components, interconnect the signals to operate as a system, and tie this system to the Downtown Signal System. The estimated construction cost for this project is $760,000, with $608,000 (80 percent) of Federal CMAQ funds and the remaining 20 percent split between the IDOT ($24,400) and the City $127,600), using GO Bonds. Funds for the design work and the City matching share for the construction costs are included in the approved 1997-98/2002-3 CIP.