

ARRA October 2009 Summary Report

Surface Transportation Projects – Public Works Department Traffic Signal Upgrades on 31st Street Traffic Signal Upgrades on 39th Street Traffic Control Center

Department Of Energy Conversion of Traffic Signals to LED Traffic Control Center (Signal Synchronization Center)

The three projects for federal highway funding include 31st and 39th Street signals and the Traffic Control Center. The 31st and 39th Street signals just got obligated by the state and will be bid November 10th.

The Traffic Control Center is an engineering facility that contains a signal synchronization center and the traffic engineering support entire city. The signal synchronization center portion contains the computer equipment to coordinate traffic signal throughout the city. The other portion of the Traffic control Center is the traffic engineering support for the signal synchronization center. It contains offices for dispatching, traffic studies, signal design, signal maintenance and lighting. This will be a unique center where all the traffic engineering for a city is housed at one location to coordinate traffic signal activities. The Traffic Control Center is in the final design to meet the requirements of the Federal Highway Administration and the Department of Energy. It is planned to have final plans turned in to MoDOT no later than December 31, 2009 and the put out to bid in February. All direct federal reporting is done through the Missouri Department of Transportation who the award is actually with. The project is estimated at \$3,200,000 with \$1,000,000 from department of Energy and \$750,000 from the Federal Highway Administration, the remainder city dollars.

Department of Energy money:

The Traffic Control Center is an engineering facility that contains a signal synchronization center and the traffic engineering support entire city. The signal synchronization center portion contains the computer equipment to coordinate traffic signal throughout the city. The other portion of the Traffic control Center is the traffic engineering support for the signal synchronization center. It contains offices for dispatching, traffic studies, signal design, signal maintenance and lighting. This will be a unique center where all the traffic engineering for a city is housed at one location to coordinate traffic signal activities

The Traffic Control Center is in the final design to meet the requirements of the Federal Highway Administration and the Department of Energy. It is planned to have final plans turned in to MoDOT no later than December 31, 2009 and the put out to bid in February.

The LED conversion project is designed to retrofit all incandescent lamps to LED's. This change will reduce the power requirements by nearly 90 %. The City in the past has converted red lamps to LED's, but this will convert the ambers, greens, and the pedestrian indications. The LED project is project manual will be completed in October and be bid in November. After it is bid, the documents will be sent to the department of energy for review and concurrence. Once they approve the documents, we will bid the project. It is estimated at \$1,900,000.