

## CIP BUDGET EXPENSE DETAIL

**DATE OF COUNCIL CONSIDERATION:**  
**CONTACT DEPARTMENT(S):**

7/28/11  
Public Works

**SUBJECT:** Authorize award and execution of a contract through the Houston-Galveston Area Council (HGACBUY) Cooperative Purchasing with TWINCREST TECHNOLOGIES, Mansfield, TX, for SmartSensor Equipment in an estimated amount not to exceed \$175,950.

**CURRENT YEAR IMPACT:**

Project Name:	Traffic Signal System Detectors
Project Authorization:	2010-2011 Capital Budget
Funding Source:	2010 GO Bonds P1
Fund/Dept/Unit:	8181 2507 2104

Current Budget	200,000
Unencumbered Balance	180,000
This Action	<u>(175,950)</u>
Estimated Available	<u>4,050</u>

**ANALYSIS / ADDITIONAL INFORMATION:** This equipment is a crucial part of the new Advanced Traffic Management System (ATMS) and will be used for collection of traffic volume and speed along different arterials in the City. They would also be used to identify unusual traffic patterns caused by incidents and unplanned events.

The collected data is sent out our traffic management center to help improve the flow of traffic by determining appropriate signal patterns. Also, using the embedded algorithm of the ATMS, the collected data will be used to estimate fuel consumption, stops & delays, and other related measures of effectiveness (MOES') along different roadways throughout the City. Without system detectors, the ATMS will not receive the data needed to adjust traffic signal patterns based on traffic flow or to provide MOE information to the public.

Twincrest Technologies is under contract with HGACBUY to supply these materials and services statewide as a result of a competitive bidding process.

