



CITY OF SUGAR LAND

Engineering Department

CIP Project Number: TR0701

Title: Traffic Technology Upgrades (Wireless Communications Network)

Project Phase: Construction

% of Phase Completion



Cost for this Phase: \$ 1,976,000

Funding Sources: Certificate of Obligation

Project Manager: David Worley/Sharlett Chowning

Contractor: TransCore ITS, LLC

Consultant: TEI, Inc. and Civitium

Project Description:

Upgrade existing traffic signal system to be wireless ethernet compatible, which allows for an expandable traffic system throughout the City inclusive of cameras, signal interconnection, and video detection devices. Project is funded through \$1.5M TxDOT CMAQ grant. This is a joint project between PW Department and the IT Department.

Justification: This project will be coordinated with the comprehensive S.H. 6 Town Center Traffic Signal timing plan study. Once the signals are timed optimally, this project will be added to the ITS infrastructure that encompasses this project. The recommended improvements will allow more information to be shared between the traffic signals, motorists and Traffic Operations Center.

Updates:

December 2008-FY funding for this project will be available in September 2009.

March 2009- Met with TxDOT on March 17th on 90% submittals. They have had 90% since December 2008. They assured us that we would receive comments by the end of March.

June 2009: Project Manual has been sent to TxDOT Austin office. We started on dates for advertisement and bid. Design is 100% complete.

July 2009- TxDOT Austin office continues to ask for additional information for the Project Manual.

August 2009- Received approval from TxDOT Austin office to begin the bid process. We have until September 30, 2009 to open bids. If not, we have to resubmit all paperwork for approval.

September 2009- Advertised three times and opened bids on September 30. TransCore ITS, LLC received the low bid. Set up meeting with TransCore, IT Department and PW's to assure that all parties are in agreement with the final product.

October 2009 – Council approved TransCore ITS low bid. IT Department and PW's have started reviewing submittals for hardware. We have had two meetings with TransCore to discuss submittals. TransCore is working on finalizing contract requirements.

November 2009 – IT Department and PW's visited with TxDOT on the process that the City will have to follow during construction. We also visited with vendors to discuss the wireless products.

December 2009 – City and TxDOT had a pre-construction meeting with Transcore and reviewed all steps of construction. On the 21st, City gave notice to proceed to TransCore. IT and PW department continue to approve specifications, should be completed with this process in early January.

January 2010 – IT and PW departments have established a weekly meeting with all parties to provide status updates on construction and material submittals. We are continuing to approve specifications for the wireless component of the project. This has delayed the project four weeks but it is required to make sure that IT receives the equipment necessary for the project to be successful and continues to operate in the out years. TransCore has started construction on installing conduit at the intersections.

February 2010 – IT and PW departments are continue to work on the change order and getting all specifications approved. Transcore is continuing to move forward with construction at the intersections and water towers.

March 2010 – IT and PW departments completed the change order. Meetings were scheduled with TxDOT and HGAC to determine the need vs. want in the change order. Dale Rudick assisted with a meeting at TxDOT to discuss in length the needs of the project. Additional paper work was requested by TxDOT and it has been completed and turned in. Transcore is continuing to move forward with construction at the intersections and water towers. State Rep. Charlie Howard was not happy with the placement of the 100' Tower and we are now in the process of relocating.

April 2010 – IT and PW departments completed the change order and delivered to TxDOT for their decision. The 100' tower was relocated at the wishes of State Rep. Charlie Howard. The Tower is now moving forward and should be completed by the end of May or early June. TxDOT has raised the amount to \$160,000 (10% of bid) that they will approve.

May 2010 – IT and PW departments received change order approval from TxDOT. TxDOT did not approve high site #9 and upgrade to Video Cameras. Inquiring where these items can be funded internally. TransCore is still on schedule and have begun to install hardware on all high sites. Mrs. Chowning is working with Hermann Hospital to see about using their roof for high site #9

June 2010 – IT and PW departments went to council and received approval for Change Order #2. TransCore is still on schedule and continues to install hardware on the high sites. They have also begun replacing cabinets and controller faceplates at the intersections (W. Riverpark @ US99 was the first). Mrs. Chowning is continuing to work with Hermann Hospital to see about using their roof for high site #9.

June – IT is continuing to if Hermann Hospital will work with the City. They have also began to look at other locations within Riverpark. Most of the other Highsite's have been completed and are preparing to work at the intersections.

August 2010 – IT and PW department is continuing to work with Transcore on a schedule for implementation at the intersections. Transcore provided a half-a-day training to staff within the IT department on the Motorola radio communications setup.

September 2010 – IT department has selected a potential location for High Site #9 on an existing tower that will have annual fee. Transcore/Naztec are continuing on working at individual intersections with installation of faceplates and cameras. They have completed over 22 faceplates.