



CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE Accept Improvements Under Contract for the Wastewater Main Repair Project Near Turner Road and California Street

MEETING DATE July 2, 2003

PREPARED BY Public Works Director

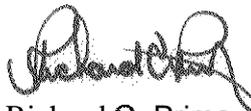
RECOMMENDED ACTION: That City Council accept improvements constructed under the Wastewater Main Repair Project near Turner Road and California Street contract.

BACKGROUND INFORMATION: On May 3, 2003, crews responded to a wastewater main backup at the Lodi Community Church located at 444 West Turner Road. Upon clearing the obstruction, the pipeline was televised and portions were found to be severely corroded and in need of rehabilitation. Please refer to the attached Memorandum dated May 7, 2003, for additional information.

After soliciting informal bids received on May 19, 2003, from two (2) pipeline rehabilitation contractors, the project was awarded May 20, 2003, under emergency conditions, in accordance with Lodi Municipal Code Section 3.20.070. The low bid was submitted by Pacific Liners, of Vacaville, in the amount of \$15,708.25. The contract has been completed in substantial conformance with the project requirements. However, the final contract price increased to \$17,548.25, due to the discovery of two (2) additional service connections within the limits of repair that were internally reinstated and sealed at a cost of \$920.00 each.

Following acceptance by the City Council, the City Engineer will file a Notice of Completion with the County Recorder's office.

FUNDING: **Budgeted Fund:** Storm Drain IMF (171021)
 Revised Contract Amount: \$17,548.25


Richard C. Prima, Jr.
Public Works Director

Prepared by Charlie Swimley, Senior Civil Engineer
RCP/CES/pmf
Attachment

cc: Joel Harris, Purchasing Officer
Randy Hays, City Attorney
F. Wally Sandelin, City Engineer
Wes Fujitani, Senior Civil Engineer
Fran Forkas, Water/Wastewater Superintendent
Del Kerlin, Assistant Wastewater Treatment Superintendent

APPROVED: _____


H. Dixon Flynn -- City Manager



MEMORANDUM, City of Lodi, Public Works Department

To: Richard Prima, Public Works Director
From: Charlie Swimley, Senior Civil Engineer
Date: May 7, 2003
Subject: Wastewater Main Repair - Lodi Community Church

Saturday May 3, 2003. crews responded to a wastewater main backup at Lodi Community Church located at 444 W. Turner Road. The wastewater line extends directly under the church as shown on the attached map. The line was subsequently cleared and flow resumed. however, when the line surcharged, sewage leaked out into the crawl space below portions of the church buildings. The Crews loaned the church fans that assisted in drying the area under the floor space and reducing the odor.

I was notified by Martin Jones and Dave Towne on Monday the 5th and recommended the line be televised to determine the problem. Martin and Dave responded immediately and televised from the MH on California St. easterly a distance of approximately 158' to a point where debris obstructed further progress by the camera transporter. The video did reveal the pipeline is constructed of severely damaged concrete pipe and must be repaired.

Portions of the line had been repaired under the church approximately two years ago. Roughly 20LF of the existing concrete pipe was replaced with pvc pipe. The work was difficult due to the tight working area whereby crews had to hand dig using short handled shovels in order to excavate and replace the damaged pipeline. Therefore, I am recommending a trenchless repair method in order to minimize the surface impacts.

Additionally, I am recommending the work be performed under emergency conditions in order to expedite completion. The church operates a day care facility in the buildings directly above the damaged wastewater pipeline. Fortunately the raised floor prohibits any overflow from discharging directly into the building, however, during the latest event, the dirt below the building did become saturated causing unpleasant odors. Additionally, repeated saturation of the soil below the church foundation could eventually lead to structural problems if not remedied.

Due to the condition of the pipe, and the difficulty of making point repairs, I recommend using the machine spiral wound pipe method of trenchless rehabilitation. This method employs a continuous one piece PVC profile which is machine wound into the deteriorated pipeline from an existing manhole. I am concerned other forms of trenchless pipeline rehabilitation may induce stresses during installation that would disintegrate the already damaged pipe making any rehabilitation impossible.

Section 3.20.070 of the Lodi Municipal Code allows bidding to be dispensed under emergency conditions. It is my opinion exercising this option is prudent considering the day care facility and the potential for foundation damage.

We estimate the total cost to repair 245 LF of pipeline at \$17,500. This price includes relining the existing pipe, installing a new manhole, reinstating 3 service connections and replacing damaged landscaping on the church grounds due to the work. A copy of the cost estimate is also attached.

Please advise if you concur with this approach. Our crews are scheduled to begin constructing the new manhole on Monday, May 12, 2003 in preparation for the lining work.

Charlie Swimley
Senior Civil Engineer

CES:cs

Attachments

cc: F. Wally Sandelin, City Engineer
Wen Fujitani, Senior Civil Engineer
Fran Forkas, Water/Wastewater Superintendent