

December 15, 2011

Mr. D. Jesse Hegemier, P.E.  
County Engineer  
Fort Bend County  
1124 Blume Road  
Rosenberg, Texas 77471

Re: Invoice No. 6 for Front Street (FBC Project No. 747)  
Partial Payment for Work Authorization No. 1

Project No. 300701.12

Dear Mr. Hegemier:

We have reviewed the enclosed invoice by Lippke, Cartwright & Roberts, Inc. (LCR), and recommend payment in the amount of \$23,528.25, as submitted. The contract amount of \$90,736.00 for LCR was authorized in Work Authorization No. 1, which is effective until December 31, 2011. Although this invoice is dated October 4, 2011, it was not received in our office until December 13, 2011. The percentages of completion for which the services have been invoiced appear to be consistent with the actual amount of work completed. LCR has also prepared a progress report, which is attached to the invoice for your review.

Please call me if you have any questions.

Sincerely,



Peter A. Ring, P.E.  
Project Manager

PAR/tmb

Enclosure



**LIPPKÉ CARTWRIGHT & ROBERTS**  
CONSULTING ENGINEERS

**COPY**

INVOICE

BILL TO:  
Fort Bend County Engineering  
c/o Shaumburg & Polk  
11767 Katy Freeway # 900  
Houston, TX 77079-1779  
Attn: Pete Ring

October 4, 2011  
Invoice # 11265  
Project # 404-0005  
Terms: Net 30

Fees for Professional Services rendered through 09/30/2011

RE: Front Street Extension WA No 1 PO No. 74318  
\* Reference attached Progress Report

Task	Description	Fee	% Complete	Fee Earned	Prior Billed	Fee Due
03	P.E.R.	\$ 41,855.00	53%	\$ 22,183.15	\$ 15,904.90	\$ 6,278.25
03	Topo Survey	\$ 18,500.00	93.2%	\$ 17,250.00	\$ -	\$ 17,250.00
03	Geotechnical	\$ 11,381.00	100%	\$ 11,381.00	\$ 11,381.00	\$ -
03	Signal Warrant Study	\$ 19,000.00	7%	\$ 1,330.00	\$ 1,330.00	\$ -
		\$ 90,736.00		\$ 52,144.15	\$ 28,615.90	\$ 23,528.25

Total Due this Invoice:

**\$ 23,528.25**

*OK  
ARM*

Please include Invoice number on remittance  
Make checks payable to Lippke Cartwright & Roberts, Inc.  
Thank you

*CR*



Oct. 3, 2011

Pete Ring, PE  
SPI Engineering Inc.  
11,767 Katy Frwy. #900  
Houston. TX. 77079  
713 920 0487 713 653 4041

Re: Front Street Extension Project PER, September, progress report.

Dear Mr. Ring:

We studied the congested utilities at the south end from preliminary SUE surveys provided by TEAM, and our own plans which we are currently developing for the Othon project. We focused on two hard conflicts between the CoR. sanitary 14" FM, and our proposed 48" Storm sewer between Fannin & Hillcrest. At stas 810+50 & 813+00. We met with CoR Officials Lenert Kurtz, Wade Wendt & Garren Schmidt on Sept. 16 at their office and showed them our P&P plots.

WW told us the 14" PVC FM is fairly new and bedded in cement sand, it serves 4,000 homes. it could be shut down for up to six hours preferably at night. He laid out the peak times as: 6AM to 9 AM; 11AM to 1.30 PM; & 4.30 PM to 9.00 PM. Pressure is under 20 psi typically. He said that the tunnel contractors had tunneled under the san & water lines earlier by bracing up the lines, he suggested we do the same here assuming we have the clearance. WW said he would expose this line so we can get a better elevation shot.

There is a long run of 300' 807+50 to 810+50, where the lines will run close to each other, since the storm cut will be on the order of 10' deep and the SSFM is only 4' deep, lateral stability is an issue. LK was very concerned and insisted on a trench box; we will need to supplement with tight compaction of backfill and or grouting to fill voids left by trench box. LK & WW felt that a 30' length would be an upper limit of open excavation, before backfilling.

The conflict at sta 813+00 is at more of a detrimental skew. The simplest solution would be to relocate the proposed storm sewer closer to the ROW line so it is not under pavement, in the area where we have enough room which is south of sta 810+75. This would require a few more manholes & laterals to tie curb inlets, but save a costly utility adjustment. This will work if we are able to use this open ROW area. I asked LK to check with Kelly Kaluza. Subsequently, LK informed me that he had discussed this with Kelly Kaluza. No foreseeable problems.

We redrew our plans with the revised storm sewer locations and profiles. Plus cross sections showing utilities and narrow ROW. In some places it is only 53'. We asked TEAMS to double check ROW widths. A meeting was set up for Friday Sept. 30 at CoR to display all this work but it was cancelled. We are currently working on trying to fit large RCP for storm and 4' sidewalk into limited ROW. Some customizing may be required. See attached preliminary sketches.

Bernard J. Murphy, PE  
Transportation Manager

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**LIPPKÉ CARTWRIGHT & ROBERTS**  
CONSULTING ENGINEERS

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G:\Billing - Lppke\2011\404-0005\11265

*CR*