



TSC Engineering

"A TRW Engineers, Inc. Company"

INVOICE

Mr. D. Jesse Hegemier
County Engineer
Fort Bend County
1124-52 Blume Road
Rosenberg, Texas 77471
Attn: Mr. Steve Evans, P.E.

Date:
Invoice No.:
TSC Project No.:

March 31, 2012
779-001-04
779-001

Re: Agreement for Engineering Services

Description: Improvements: West Bellfort from SH99 to Harlem Road
Located in Fort Bend County, Texas

Purchase Order No.: P0:85428
Vendor Number: 21773

This invoice covers work performed through:

March 1, 2012 to March 31, 2012

Basic Service:		Percent Complete	Previous % Complete		Total Invoice Amount	Previous Invoice Amount	Amount Due This Invoice
A. Study Phase (Segment B: TSC Eng)	\$ 99,968.00	76%	50%		\$ 75,975.68	\$ 49,984.00	\$ 25,991.68
A. Study Phase (Segment B: Deden Services)	\$ 40,612.00	76%	50%		\$ 30,865.12	\$ 20,306.00	\$ 10,559.12
B. Design Phase (Segment B: TSC Eng)	\$ 99,968.00	0%	0%		\$ -	\$ -	\$ -
B. Design Phase (Segment A: Deden Services)	\$ 40,612.00	0%	0%		\$ -	\$ -	\$ -
C. Contract Phase (Segment B: TSC Eng)	\$ 12,496.00	0%	0%		\$ -	\$ -	\$ -
C. Contract Phase (Segment A: Deden Services)	\$ 5,076.50	0%	0%		\$ -	\$ -	\$ -
D. Survey (TSC Surveying)	\$ 40,000.00	85%	75%		\$ 34,000.00	\$ 30,000.00	\$ 4,000.00
E. Geotechnical (Aviles)	\$ 15,505.00	60%	0%		\$ 9,303.00	\$ -	\$ 9,303.00
	\$ 354,237.50	42%	28%		\$ 150,143.80	\$ 100,290.00	\$ 49,853.80

Basic Services Due This Invoice: \$ 49,853.80

ADDITIONAL SERVICES

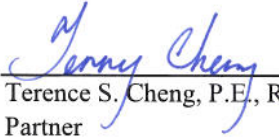
**Existing Right of Way Mapping and Right of Way Abstracting
(TSC Surveying) \$ 14,000.00**

Title & Name	Hours		Billing Rate	Total
Registered Professional Land Surveyor	x	\$	116.00	\$ -
Senior Survey Technician	x	\$	85.00	\$ -
Survey Technician	x	\$	77.00	\$ -
3 - Member Field Crew	x	\$	128.00	\$ -
2 - Member Field Crew	x	\$	99.00	\$ -
CADD Technician	x	\$	75.00	\$ -
Admin/Clerical	x	\$	50.00	\$ -
			Total	\$ -

Amount This Invoice	Previous Amount	Total Invoice	Amount Remaining
\$ -	\$ -	\$ -	\$ 14,000.00

TOTAL AMOUNT DUE FOR BASIC AND ADDITIONAL SERVICES: \$ 49,853.80

I certify this invoice to be true and correct.



 Terence S. Cheng, P.E., R.P.L.S.
 Partner

Engineering Services Improvements: West Bellfort Road, MOB, Proj No 741, Precinct 4

Progress Report No. 4 for Invoice No. 779-001-04

Work Performed for Period March 1, 2012 to March 31, 2012

A. STUDY PHASE

Data Collection/Field Reconnaissance

None

Utility Research

Survey will coordinate with pipeline companies concerning probing and depths.

PER

Complete preliminary plan and profile sheets

Finalize vertical alignment

Finalize Preliminary drainage design

Finalize PER

Informal Meetings

None

Formal Meetings

None

B. DESIGN PHASE

No work performed this period.

C. CONTRACT PHASE

No work performed this period.

D. SURVEYING

1. Control Surveys

- Completed the review of the Project Control which closely matches most NFBWA control points.

2. Topographic Surveys and Cross Section Roadways

- Obtain cross sections of project at approximately 500-foot intervals to verify NFBWA survey.
- Prepared cross section views of the filed sections taken verses NFBWA data and forward to Engineers for review and comments.
- Reviewed the planimetric file prepared based on the FBWA files and asked that the file conversion be checked and verified. The Field Walk on the DGN file based on the base topo file from NFBWA has some shortcoming that need to be address.
- Located Southcross Energy 14" pipe line crossing West Bellfort at the east end of the project.

3. Coordination With Pipeline Companies and DigTest

- DigTest – no utilities were marked.
- Coordinated with Southcross Energy

4. Locate Geotechnical Boreholes

- Tied Boreholes

5. Preparation of Planimetric (plan view) File and Preparation of DTM- GeoPak TIN File

- Survey Data Points being added to planimetric file.

6. Stake Project baseline (Update Survey Control Map)

- No Work being done at this time.

Problems Encountered (Issues):

- a) Field Cross sections match NFBWA information vertically - fall within a vertical difference falling within a few hundredths of a foot to several feet.

E GEOTECHINCAL

Complete soil borings
Working on geotechnical report for review