

PO 138400
Rec 379176
10/24/14
AFLP



AGUIRRE & FIELDS LP
ENGINEERS AND PLANNERS

Invoice

September 30, 2016

Fort Bend County Engineering Department
301 Jackson Street
Richmond, TX 77469

Attention: Mr. Richard W. Stolleis, P.E.

Invoice No.: 6232
AFLP Project No.: 12607.5
Project Name: Greenbusch Road Improvements (Project No. 13312)
PO Number 138400
Service Dates: September 1, 2016 through September 30, 2016

Invoice Summary

Task Description	Contract Amount	Percent Complete	Amount Complete	Previously Invoiced	Current Amount
Preliminary Design	\$121,397.00	100.00%	\$121,397.00	\$104,314.73	\$17,082.27
Final Design	\$342,874.00	0.00%	\$0.00	\$0.00	\$0.00
Bid & Construction	\$30,000.00	0.00%	\$0.00	\$0.00	\$0.00
Survey	\$119,775.00	80.00%	\$95,820.00	\$95,820.00	\$0.00
ROW Maps	\$50,905.00	0.00%	\$0.00	\$0.00	\$0.00
Geotech	\$19,800.00	100.00%	\$19,800.00	\$19,800.00	\$0.00
Total	\$684,751.00	34.61%	\$237,017.00	\$219,934.73	\$17,082.27

Total Amount Due

\$17,082.27

OK, JMS
10/24/16

Progress Report:

AFLP developed a final PER and submitted for review by SPI and FBC. Drainage study was designed for a 2 YR event and checked for flooding at a 100 YR event water surface elevation. Geotech report was fully incorporated into the PER for pavement design, bridge foundation and drainage construction method recommendations. On road design, we added a left turn at Saddlespur Lane, as requested by SPI & FBC. Required ROW acquisition was identify and recommended to FBC.



**FORT BEND MOBILITY PROGRAM
PROJECT STATUS REPORT**

PROJECT: Greenbusch Road Paving and Drainage Improvements
From Gaston Rd to Westheimer Pkwy

CONSULTANT: AGUIRRE & FIEDLS LP

PROJECT PHASE: Preliminary Design

CONTRACT OR PROJECT NO. P.O. Number 138400

DATE: September 30, 2016

AFLP developed a final PER and submitted for review by SPI and FBC. Drainage study was designed for a 2 YR event following Harris County design criteria (same as City of Houston) and checked for flooding at a 100 YR event water surface elevation. Geotech report was fully incorporated into the PER for pavement design, bridge foundation and drainage construction method recommendations. On road design, we added a left turn at Saddlespur Lane, as requested by SPI & FBC. Required ROW acquisition was identify and recommended to FBC.

ACTIVITIES ACHIEVED:

- 09/01/16 Bridge Layout
- 09/09/16 Final horizontal and vertical alignments
- 09/13/16 ROW requirements and recommendations
- 09/12/16 Final existing and proposed cross sections
- 09/20/16 Final PER Cost estimate
- 09/26/16 Initiate PER QA/QC
- 09/28/16 Review PER base on QA/QC recommendations
- 09/30/16 PER submitted to SPI for distribution

PLANNED ACTIVITIES FOR NEXT PERIOD:

- Schedule BID documents submittal date (the attached schedule will be updated)
- Adjust Road and Bridge profile
- Incorporate Drainage from developers if FBCDD recommend it.

9/30/2016



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OUTSTANDING ITEMS, NEEDS OR CONCERNS:

Bridge and Vertical Roadway design optimization.

ROW MAP acquisition recommendations

Drainage analysis for final design

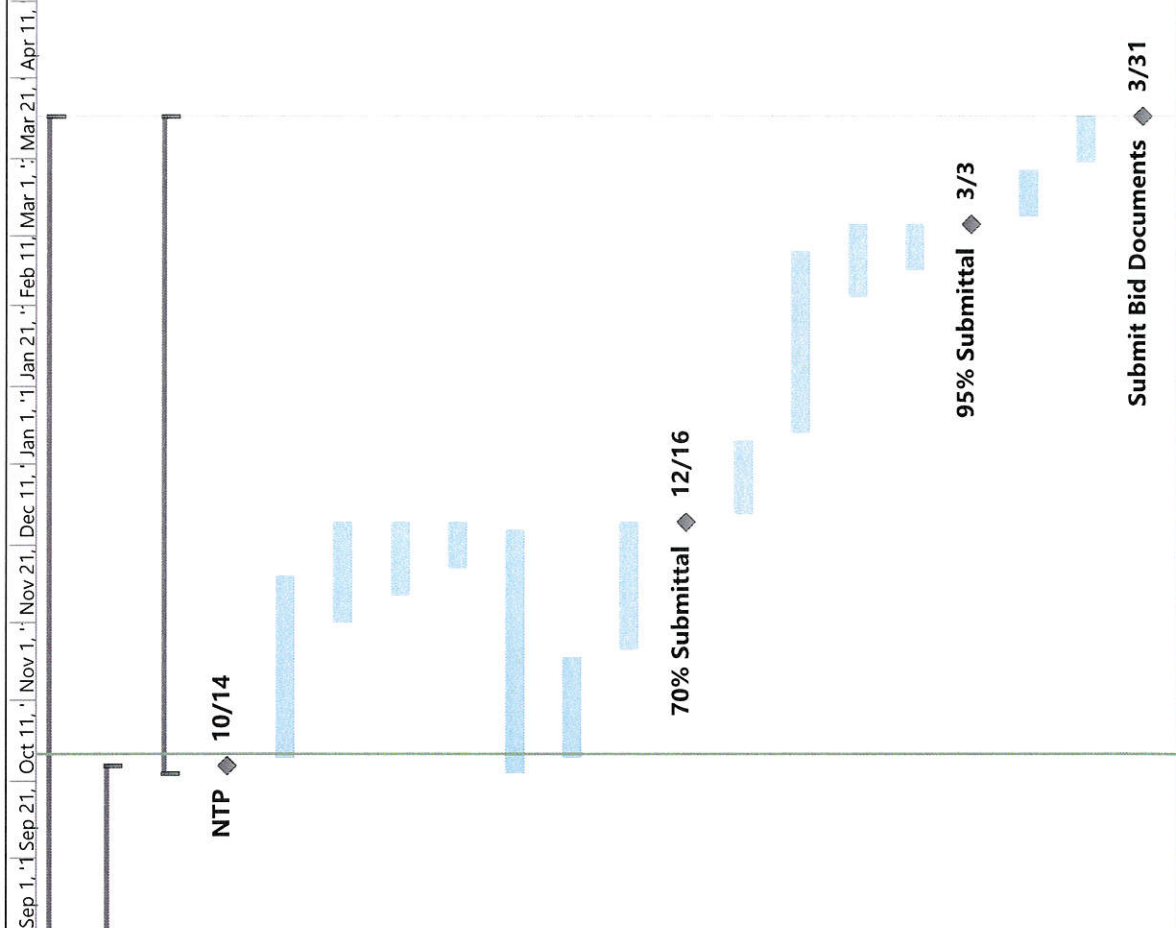
Detailed Vertical Profile at intersections

SCHEDULE UPDATE:



PROJECT SCHEDULE

ID	Task Name	Duration	Start	Finish
1	Greenbusch	261 days	Fri 4/1/16	Fri 3/31/17
2	Preliminary Design	141 days	Fri 4/1/16	Fri 10/14/16
14	Final Design	122 days	Thu 10/13/16	Fri 3/31/17
15	NTP	0 days	Fri 10/14/16	Fri 10/14/16
16	70% Plans	35 days	Mon 10/17/16	Fri 12/2/16
17	70% Specs	20 days	Mon 11/21/16	Fri 12/16/16
18	70% Cost Estimate	15 days	Mon 11/28/16	Fri 12/16/16
19	Survey Control Map - Final	2 wks	Mon 12/5/16	Fri 12/16/16
20	ROW Maps	45 days	Thu 10/13/16	Wed 12/14/16
21	Geotechnical Report - Final	4 wks	Mon 10/17/16	Fri 11/11/16
22	Drainage Report - Final	5 wks	Mon 11/14/16	Fri 12/16/16
23	70% Submittal	0 days	Fri 12/16/16	Fri 12/16/16
24	FBC Review	3 wks	Mon 12/19/16	Fri 1/6/17
25	95% Plans	35 days	Mon 1/9/17	Fri 2/24/17
26	95% Specs	15 days	Mon 2/13/17	Fri 3/3/17
27	95% Cost Estimate	10 days	Mon 2/20/17	Fri 3/3/17
28	95% Submittal	0 days	Fri 3/3/17	Fri 3/3/17
29	FBC Review	2 wks	Mon 3/6/17	Fri 3/17/17
30	Address Comments	2 wks	Mon 3/20/17	Fri 3/31/17
31	Submit Bid Documents	0 days	Fri 3/31/17	Fri 3/31/17



Peterson, Jillian

From: Elise Dillow <edillow@spi-eng.com>
Sent: Friday, October 21, 2016 9:02 AM
To: Peterson, Jillian
Cc: Hieu Nguyen
Subject: Greenbusch Invoice 5
Attachments: Invoice 6232 12607 5 2016-09-30 FBC.pdf

Jillian,

Attached is Aguirre & Fields' invoice 5 for Greenbusch Road. I have looked the invoice over and everything looks good. Please let me know if you have any questions.

Thank you,

Elise Dillow, EIT
Schaumburg & Polk, Inc.
(281) 920-0487 office