

PO# 170311
 PMS REC 475291
AECOM

Check Payment to:
 AECOM Technical Services, Inc.
 An AECOM Company
 1178 Paysphere Circle
 Chicago IL 60674

ACH Payment to:
 AECOM Technical Services, Inc.
 An AECOM Company
 Bank of America

Wire Transfer Payment to:
 An AECOM Company
 Bank of America
 New York, NY 10001

Attn: Accounts Payable
 Fort Bend County
 301 Jackson Street
 Richmond, Texas 77469

Invoice Date: December 24, 2018

Invoice No: 2000154484

60590362 - Bullhead Bayou Overflow Study / Concept Design

For Professional Engineering Services Rendered Through November 30, 2018

Phase Lump Sum

Description	Fee	Percent Complete	Earned	Previously Billed	Current
Bullhead Bayou - Basic Services	\$ 85,300.00	42.57%	36,310.00	-	36,310.00
Bullhead Bayou - Special Services	\$ 42,000.00		-	-	-
	\$ 127,300.00		\$ 36,310.00	\$ -	\$ 36,310.00

Project Total: Bullhead Bayou / 90A:

\$ 36,310.00
 ok to pay
 hrs 1/2/19

Billing Summaries

Billing Summary	Current	Prior	Total Billed	Total Fee	Remaining Balance
Billings	36,310.00	-	36,310.00	127,300.00	\$ 90,990.00

Project Name: Bullhead Bayou Overflow Control Study / Concept Design
Project Location: Fort Bend County

PROGRESS REPORT NO. 1
September 25, 2018 to November 30, 2018

Total Percent Complete: 29%
Previous % Complete: 0%
Total WA Value: \$127,300
Billed to Date: \$36,310
Billed This Month: \$36,310
Billed Last Month: \$0.00
Remaining: \$90,990

Task 1: Project Management (40% complete)

Activities this period:

- General management and oversight of the project
- preparation of invoice

Activities anticipated next period:

- General management and oversight of the project
- Present initial findings to Fort Bend County
- Preparation of invoice

Outstanding issues:

- No current issues

Task 2: Oversee Limited Field Survey (100% complete)

Activities this period:

- Analyze field survey of the US 90A underpass and UPRR
- Develop TIN based on best available data for the study area

Activities anticipated next period:

- None

Outstanding issues:

- No current issues

Task 3: Review Existing Brazos River Models (100% complete)

Activities this period:

- Reviewed three hydraulic models within the study area
- Analyzed applicability of the scope and detail of each model to this study

Activities anticipated next period:

- None

Outstanding issues:

Project Name: Bullhead Bayou Overflow Control Study / Concept Design
Project Location: Fort Bend County

- No current issues

Task 4 Develop Existing Conditions 2D Model (80% complete)

Activities this period:

- Developed the existing conditions hydraulic model
- Updated the BRA and Jones and Carter hydrologic models

Activities anticipated next period:

- Finalize the existing hydrologic and hydraulic models

Outstanding issues:

- No current issues

Task 5 Compare Results/ Perform Calibration (60% complete)

Activities this period:

- High level comparison of the models reviewed in task 5 with
- Limited calibration to

Activities anticipated next period:

- Further calibration based on the outcomes of the initial results meeting with Fort Bend County

Outstanding issues:

- No current issues

Prepared By: Kyle Denny, CFM
Date: December 11, 2018

Bullhead Bayou Overflow Control Study / Concept Design

AECOM Technical Services, Inc.

Fort Bend PO No.: 170311

Invoice No.: 1

Invoice Period: 9/25/18 to 11/30/18

BASIC SERVICES - FIXED FEE

Task No.	Task Name	Contract Limit	Previous Amount	Previous % Complete	Amount Expended this	Period % Complete	Amount Expended to Date	% Expended to Date	Amount Remaining
1	Project Management	\$5,200	\$0	0%	\$2,080	40%	\$2,080	40%	\$3,120
2	Oversee Limited Field Survey	\$1,700	\$0	0%	\$1,700	100%	\$1,700	100%	\$0
3	Review of Existing Brazos River Models	\$8,200	\$0	0%	\$8,200	100%	\$8,200	100%	\$0
4	Develop Existing Conditions 2D Model	\$25,400	\$0	0%	\$20,320	80%	\$20,320	80%	\$5,080
5	Compare Results / Perform Calibration	\$6,600	\$0	0%	\$3,960	60%	\$3,960	60%	\$2,640
6	Determine Design Elevation	\$2,500	\$0	0%	\$0	0%	\$0	0%	\$2,500
7	Develop up to 3 Conceptual Alternatives	\$16,600	\$0	0%	\$0	0%	\$0	0%	\$16,600
8	H&H Modeling of Preferred Alternative	\$4,500	\$0	0%	\$0	0%	\$0	0%	\$4,500
9	Cost Estimating	\$5,200	\$0	0%	\$0	0%	\$0	0%	\$5,200
10	Report Preparation	\$8,900	\$0	0%	\$0	0%	\$0	0%	\$8,900
ODCs		\$500	\$0	0%	\$50	10%	\$50	10%	\$450
Totals		\$85,300	\$0	0%	\$36,310	43%	\$36,310	43%	\$48,990

ADDITIONAL SERVICES - SPECIFIED RATE

Task No.	Task Name	Contract Limit	Previous Amount	Previous % Complete	Amount Expended this	Period % Complete	Amount Expended to Date	% Expended to Date	Amount Remaining
1	Hydraulic Analysis of Additional Alternatives	\$4,000	\$0	0%	\$0	0%	\$0	0%	\$4,000
2	Develop Plan View Schematics for Add. Alt's.	\$16,000	\$0	0%	\$0	0%	\$0	0%	\$16,000
3	TxDOT Coordination	\$5,000	\$0	0%	\$0	0%	\$0	0%	\$5,000
4	LID 7 Coordination	\$5,000	\$0	0%	\$0	0%	\$0	0%	\$5,000
5	UPRR Coordination	\$2,000	\$0	0%	\$0	0%	\$0	0%	\$2,000
6	Design Revisions	\$10,000	\$0	0%	\$0	0%	\$0	0%	\$10,000
Totals		\$42,000	\$0	0%	\$0	0%	\$0	0%	\$42,000

Project Summary	Contract Limit	Amount Expended to Date	% Expended to Date	Amount Remaining
Basic Services	\$85,300	\$0	43%	\$85,300
Additional Services	\$42,000	\$36,310	0%	\$5,690
Total Contract	\$127,300	\$36,310	29%	\$90,990