



Planners - Engineers - Program Managers

PO 125695
Rec 358409
5/12/14

APP

April 20, 2016

Mr. Richard W. Stolleis, P.E.
Fort Bend County Engineer
301 Jackson Street
Richmond, Texas 77469

Re: Billing Period No. 11
IDC Invoice No. 10707
Services through March 2016
Purchase Order No.: 125695
Project No. 402-0402
Crabb River Road PS&E
From Rabbs Bayou to South of LCISD New HS/JHS Complex.

Dear Mr. Stolleis:

Enclosed is IDC's invoice for services performed through March 2016 in the amount of \$232,717.50 for your consideration and further handling. Two copies of the following documents are attached:

- Invoice No. 10707
- Progress Report No. 11

Sincerely,
IDC Inc.

A handwritten signature in blue ink, appearing to read "Larry F. Janak".

Larry F. Janak, P.E.
Executive Vice President

INVOICE
IDC, INC.
Fort Bend County - Crabb River Road PS&E

Bill To:
Mr. Richard Stolleis, P.E.
County Engineer
Fort Bend County
301 Jackson Street
Richmond, TX 77469

P.O. #: 125695
Project #: 402-0402
Contract Number:
Invoice Number: 10707
Invoice Date: April 20, 2016
Billing Period: March 2016

Amendment Contract Amount: \$ 2,165,059.00

Total Contract: \$ 2,165,059.00

Fee Earned: \$ 1,788,794.10

Total Amount Earned: \$ 1,788,794.10

Less Previously Invoiced: \$ 1,556,076.60

1,556,076.60

Total Invoice Amount: \$ 232,717.50

*OK, JSS
05/12/16*

WA Amount Remaining: \$ 376,264.90



INVOICE No. 11
 CRABB RIVER ROAD PS&E
 SCHEDULE OF VALUES

PS&E PHASE

SERVICES THROUGH: 3/31/2016

TASK DESCRIPTION	CONTRACT AMOUNT	PERCENT COMPLETE	INVOICED TO DATE	PREVIOUSLY INVOICED	AMOUNT THIS INVOICE
I. ROADWAY DESIGN					
A. Typical Sections - Existing	\$10,933.00	100.0%	\$10,933.00	\$10,933.00	\$0.00
B. Crabb River Road Typ Sections - Proposed	\$42,971.00	90.0%	\$38,673.90	\$34,376.80	\$4,297.10
C. Proposed Typ Sections - Side streets	\$13,324.00	90.0%	\$11,991.60	\$10,659.20	\$1,332.40
D. Roadway P&P	\$141,167.00	90.0%	\$127,050.30	\$112,933.60	\$14,116.70
E. Horizontal Align Data	\$14,689.00	100.0%	\$14,689.00	\$14,689.00	\$0.00
F. Thompson Road P&P	\$23,853.00	90.0%	\$21,467.70	\$19,082.40	\$2,385.30
G. Intersections Layouts & Grading	\$53,992.00	85.0%	\$45,893.20	\$40,494.00	\$5,399.20
H. Misc Roadway Details	\$19,995.00	75.0%	\$14,996.25	\$3,999.00	\$10,997.25
I. Driveway Table & Details	\$10,991.00	80.0%	\$8,792.80	\$6,594.60	\$2,198.20
J. Roadway Standards	\$8,024.00	50.0%	\$4,012.00	\$0.00	\$4,012.00
K. Roadway Summaries	\$24,467.00	60.0%	\$14,680.20	\$7,340.10	\$7,340.10
Subtotal	\$364,406.00	85.9%	\$313,179.95	\$261,101.70	\$52,078.25
II. DRAINAGE DESIGN					
A. Drainage Area Watershed Map	\$7,118.00	90.0%	\$6,406.20	\$5,694.40	\$711.80
B. DA Layouts	\$45,105.00	90.0%	\$40,594.50	\$36,084.00	\$4,510.50
C. Drainage P&P	\$99,330.00	85.0%	\$84,430.50	\$74,497.50	\$9,933.00
D. Thompson Road Drainage P&P	\$26,221.00	85.0%	\$22,287.85	\$19,665.75	\$2,622.10
E. Crabb River Road Drainage Calcs	\$43,790.00	85.0%	\$37,221.50	\$32,842.50	\$4,379.00
F. Drainage Ditch Calcs	\$6,554.00	85.0%	\$5,570.90	\$4,915.50	\$655.40
G. Rabbs Bayou Bridge Calcs	\$13,871.00	85.0%	\$11,790.35	\$10,403.25	\$1,387.10
H. Gapps Slough Drainage Calcs	\$13,871.00	85.0%	\$11,790.35	\$10,403.25	\$1,387.10
I. Lateral Sheets	\$43,380.00	85.0%	\$36,873.00	\$30,366.00	\$6,507.00
J. Misc Drainage Details	\$13,242.00	50.0%	\$6,621.00	\$3,310.50	\$3,310.50
K. Detention Pond - Rabbs Bayou	\$18,328.00	75.0%	\$13,746.00	\$12,829.60	\$918.40
L. Detention Pond #1 - Gapps Slough	\$14,850.00	75.0%	\$11,137.50	\$10,395.00	\$742.50
M. Detention Pond #2 - Gapps Slough	\$14,850.00	75.0%	\$11,137.50	\$10,395.00	\$742.50
N. Drainage Standards	\$8,676.00	50.0%	\$4,338.00	\$0.00	\$4,338.00
O. Drainage Summaries	\$14,821.00	60.0%	\$8,892.60	\$4,446.30	\$4,446.30
Subtotal	\$384,007.00	81.5%	\$312,837.75	\$266,248.55	\$46,589.20
III. SIGNING & PAVEMENT MARKINGS					
A. Sign & Pavement Marking Layouts	48,555.00	90.0%	\$43,699.50	\$38,844.00	\$4,855.50
B. Small Sign Summary	9,626.00	60.0%	\$5,775.60	\$4,813.00	\$962.60
C. Pavement Marking Summary	9,626.00	60.0%	\$5,775.60	\$2,887.80	\$2,887.80
D. Standard Details & Existing Sign Inventory	9,626.00	50.0%	\$4,813.00	\$2,887.80	\$1,925.20
Subtotal	77,433.00	77.6%	60,063.70	49,432.80	10,631.10
IV. TRAFFIC SIGNALIZATION					
A. Signal Warrant - Tara Dr.	\$8,675.00	90.0%	\$7,807.50	\$6,940.00	\$867.50
B. Signal Warrant - Thompson Rd	\$8,676.00	90.0%	\$7,808.40	\$6,940.80	\$867.60
C. Signal Warrant - School Entrance	\$8,676.00	90.0%	\$7,808.40	\$6,940.80	\$867.60
D. Signal Design - Tara Dr.	\$23,123.00	80.0%	\$18,498.40	\$17,342.25	\$1,156.15
E. Signal Design - Thompsons Rd.	\$23,123.00	80.0%	\$18,498.40	\$17,342.25	\$1,156.15
F. Signal Design - School Entrance	\$23,123.00	80.0%	\$18,498.40	\$17,342.25	\$1,156.15
Subtotal	\$95,396.00	82.7%	\$78,919.50	\$72,848.35	\$6,071.15
V. MISCELLANEOUS ROADWAY					
A. Title Sheet	\$9,457.00	80.0%	\$7,565.60	\$5,674.20	\$1,891.40
B. Index Sheet	\$11,284.00	60.0%	\$6,770.40	\$3,385.20	\$3,385.20
C. Project Layout Sheet	\$41,480.00	90.0%	\$37,332.00	\$33,184.00	\$4,148.00
D. Demo Sheet	\$31,307.00	90.0%	\$28,176.30	\$23,480.25	\$4,696.05
E. Design Cross Sections	\$54,664.00	80.0%	\$43,731.20	\$38,264.80	\$5,466.40
F. Existing Utility Layouts	\$35,371.00	80.0%	\$28,296.80	\$24,759.70	\$3,537.10
G. Proposed Utility Plan	\$35,371.00	80.0%	\$28,296.80	\$21,222.60	\$7,074.20
H. Utility Details	\$18,766.00	50.0%	\$9,383.00	\$1,876.60	\$7,506.40
I. Utility Summaries	\$9,517.00	60.0%	\$5,710.20	\$0.00	\$5,710.20
J. BNSF RR Exhibit	\$11,694.00	100.0%	\$11,694.00	\$11,694.00	\$0.00
Subtotal	\$258,911.00	79.9%	\$206,956.30	\$163,541.35	\$43,414.95



INVOICE No. 11
 CRABB RIVER ROAD PS&E
 SCHEDULE OF VALUES

PS&E PHASE

SERVICES THROUGH: 3/31/2016

TASK DESCRIPTION	CONTRACT AMOUNT	PERCENT COMPLETE	INVOICED TO DATE	PREVIOUSLY INVOICED	AMOUNT THIS INVOICE
VI. GENERAL NOTES & SPECIFICATIONS					
A. Prepare General Notes & Spec List	17,188.00	40.0%	\$6,875.20	\$0.00	\$6,875.20
B. Prepare Special Specs & Provisions	17,189.00	40.0%	\$6,875.60	\$0.00	\$6,875.60
Subtotal	34,377.00	40.0%	13,750.80	0.00	13,750.80
VII. CONSTRUCTION COST ESTIMATE					
A. Estimate Const Cost At 30%, 60%, 90%, 100% & Final	20,112.00	80.0%	\$16,089.60	\$12,067.20	\$4,022.40
Subtotal	20,112.00	80.0%	16,089.60	12,067.20	4,022.40
VIII. ASSEMBLE PS&E					
A. 30%	\$7,302.00	100.0%	\$7,302.00	\$7,302.00	\$0.00
B. 60%	\$7,302.00	100.0%	\$7,302.00	\$7,302.00	\$0.00
C. 90%	\$7,302.00	100.0%	\$7,302.00	\$0.00	\$7,302.00
D. Final Submittal	\$7,303.00		\$0.00	\$0.00	\$0.00
Subtotal	\$29,209.00	75.0%	\$21,906.00	\$14,604.00	\$7,302.00
IX. PROJECT MANAGEMENT & COORDINATION					
A. Coord. w/ Co., TxDOT & Subs	\$49,110.00	75.0%	\$36,832.50	\$34,377.00	\$2,455.50
B. Monthly Progress Reports & Invoices	\$27,770.00	75.0%	\$20,827.50	\$19,439.00	\$1,388.50
C. Project Admin	\$32,945.00	75.0%	\$24,708.75	\$23,061.50	\$1,647.25
D. Prep & Update Schedule	\$38,995.00	75.0%	\$29,246.25	\$27,296.50	\$1,949.75
E. Attend Progress Meetings	\$28,794.00	75.0%	\$21,595.50	\$20,155.80	\$1,439.70
F. Coord. with Utilities	\$28,794.00	75.0%	\$21,595.50	\$20,155.80	\$1,439.70
G. QA/QC plan	\$24,847.00	75.0%	\$18,635.25	\$14,908.20	\$3,727.05
Subtotal	\$231,255.00	75.0%	\$173,441.25	\$159,393.80	\$14,047.45
Total IDC Labor	\$1,495,106.00	80.1%	\$1,197,144.85	\$999,237.55	\$197,907.30
Direct Costs					
A. IDC Expenses	\$7,226.00	70.0%	\$5,058.20	\$3,974.30	\$1,083.90
Total Direct Costs	\$7,226.00	70.0%	\$5,058.20	\$3,974.30	\$1,083.90
TOTAL IDC COSTS	1,502,332.00	80.0%	1,202,203.05	1,003,211.85	198,991.20
SUBCONSULTANTS					
X. PROJECT COORD & ADMIN - PB					
A. Coordination	\$7,600.00	90.0%	\$6,840.00	\$6,080.00	\$760.00
B. Meetings	\$5,059.00	90.0%	4,553.10	\$4,047.20	\$505.90
C. QA/QC	\$8,918.00	90.0%	\$8,026.20	\$7,134.40	\$891.80
Subtotal	\$21,577.00	90.0%	\$19,419.30	\$17,261.60	\$2,157.70
XI. SW3P PLANS - PB					
A. General Notes	\$1,026.00	90.0%	\$923.40	\$820.80	\$102.60
B. Plans	\$29,997.00	90.0%	\$26,997.30	\$23,997.60	\$2,999.70
Subtotal	\$31,023.00	90.0%	\$27,920.70	\$24,818.40	\$3,102.30
XII. TRAFFIC CONTROL PLANS - PB					
A. TCP Narrative & Notes	\$11,107.00	90.0%	9,996.30	\$8,885.60	\$1,110.70
B. Advance Warning Signs	\$4,330.00	90.0%	3,897.00	\$3,464.00	\$433.00
C. TCP Layouts	\$67,504.00	90.0%	60,753.60	\$54,003.20	\$6,750.40
D. TCP Details	\$8,801.00	90.0%	7,920.90	\$7,040.80	\$880.10
Subtotal	\$91,742.00	90.0%	82,567.80	\$73,393.60	\$9,174.20
XIII. GAPPS SLOUGH BRIDGE CLASS CULVERT - PB					
A. Culvert Layout	\$3,982.00	90.0%	3,583.80	\$3,185.60	\$398.20
B. Culvert Details	\$16,183.00	90.0%	14,564.70	\$12,946.40	\$1,618.30
Subtotal	\$20,165.00	90.0%	18,148.50	\$16,132.00	\$2,016.50
XIV. RABBS BAYOU BRIDGE - PB					
A. Bridge Layouts	\$15,758.00	90.0%	\$14,182.20	\$12,606.40	\$1,575.80
B. Bridge Details	\$100,413.00	90.0%	90,371.70	\$80,330.40	\$10,041.30
Subtotal	\$116,171.00	90.0%	\$104,553.90	\$92,936.80	\$11,617.10

INVOICE No. 11
 CRABB RIVER ROAD PS&E
 SCHEDULE OF VALUES

PS&E PHASE

SERVICES THROUGH: 3/31/2016

TASK DESCRIPTION	CONTRACT AMOUNT	PERCENT COMPLETE	INVOICED TO DATE	PREVIOUSLY INVOICED	AMOUNT THIS INVOICE
XV. NOISE WALLS - PB					
A. Wall Layout NB-1A	\$4,947.00	90.0%	\$4,452.30	\$3,957.60	\$494.70
B. Wall Layout NB-1B	\$6,218.00	90.0%	\$5,596.20	\$4,974.40	\$621.80
C. Wall Layout NB-2	\$6,218.00	90.0%	\$5,596.20	\$4,974.40	\$621.80
D. Wall Layout NB-3	\$6,218.00	90.0%	\$5,596.20	\$4,974.40	\$621.80
E. Summaries & Standards	\$8,918.00	90.0%	\$8,026.20	\$7,134.40	\$891.80
Subtotal	\$32,519.00	90.0%	\$29,267.10	\$26,015.20	\$3,251.90
XVI. SAFETY LIGHTING - PB					
A. Lighting Plans	\$7,212.00		\$0.00	\$0.00	\$0.00
B. Details & Summaries	\$7,935.00		\$0.00	\$0.00	\$0.00
Subtotal	\$15,147.00	0.0%	\$0.00	\$0.00	\$0.00
XVII. SUBMITTALS - PB					
A. Plot Drawings	\$11,706.00	90.0%	\$10,535.40	\$9,364.80	\$1,170.60
B. Cost Estimates	\$3,765.00	90.0%	\$3,388.50	\$3,012.00	\$376.50
Subtotal	\$15,471.00	90.0%	\$13,923.90	\$12,376.80	\$1,547.10
Total PB Labor	\$343,815.00	86.0%	\$295,801.20	\$262,934.40	\$32,866.80
A. PB Expenses	\$8,595.00	90.0%	\$7,735.50	\$6,876.00	\$859.50
TOTAL PB COSTS	352,410.00	86.1%	303,536.70	269,810.40	33,726.30
XVIII. GEOTECHNICAL INVESTIGATIONS - HTS					
A. Field Work	\$22,425.00	100.0%	\$22,425.00	\$22,425.00	\$0.00
B. Install Piezometer	\$2,416.00	100.0%	\$2,416.00	\$2,416.00	\$0.00
C. Lab Testing	\$17,501.00	90.0%	\$15,750.90	\$15,750.90	\$0.00
D. Prepare Report	\$17,670.00	3.9%	\$689.10	\$689.10	\$0.00
Total	\$60,012.00	68.8%	\$41,281.00	\$41,281.00	\$0.00
XIX. FIELD SURVEYING & ROW MAPPING - HZI					
A. Acquire ROE	\$3,000.00	100.0%	\$3,000.00	\$3,000.00	\$0.00
B. Set Control & Topographic Surveys	\$90,000.00	100.0%	\$90,000.00	\$90,000.00	\$0.00
C. Cross Section Rabb's Bayou & Gapp's Slough	\$6,380.00	100.0%	\$6,380.00	\$6,380.00	\$0.00
D. Prepare ROW Maps & Documents	\$38,920.00	97.2%	\$37,836.60	\$37,836.60	\$0.00
E. Deed Research & ROW Monumentation	\$64,205.00	88.4%	\$56,756.75	\$56,756.75	\$0.00
F. BNSF RR Survey	\$17,880.00	100.0%	\$17,880.00	\$17,880.00	\$0.00
G. Survey Thompson 's Road	\$14,260.00	100.0%	\$14,260.00	\$14,260.00	\$0.00
H. Detention Pond Survey	\$15,660.00	100.0%	\$15,660.00	\$15,660.00	\$0.00
Total	\$250,305.00	96.6%	\$241,773.35	\$241,773.35	\$0.00
TOTAL PROJECT	\$2,165,059.00	82.6%	\$1,788,794.10	\$1,556,076.60	\$232,717.50



Planners – Engineers – Program Managers

**CRABB RIVER ROAD
PS&E PHASE
PROGRESS REPORT NO. 11
March 2016**

Activities During Current Reporting Period

Task I. Roadway Design

- Advanced overall design to 90%.
- Refined Crabb River Road profile north of Thompson's Road.
- Refined CRR profile at Gapps Slough.
- Refined design on intersection layout/grading plans.
- Updated design of Thompson Road.

Task II. Drainage Design

- Advanced overall design to 90%.
- Finished refining drainage design in vicinity of Gapps Slough.
- Revised design of Pond #2 north of Gapps Slough.

Task III. Signing & Pavement Markings

- Advanced overall design to 90%.
- Advanced summaries.

Task IV. Traffic Signals

- Advanced overall design to 90%.

Task V. Miscellaneous Roadway

- Advanced TCP design to 90%.
- Coordinated & Conducted TCAT meeting with TxDOT on March 24, 2016.
- Updated cross sections.
- Coordinated SUE investigation.
- Identified Std drawings for 90% submittal.

Task VI. General Notes & Specifications

- Prepared General Notes for 90% submittal.

Task VII. Construction Cost Estimate

- Prepared 90% construction cost estimate.

Task VIII. Assemble PS&E

- Assembled 90% PS&E submittal.

Task IX. Project Management & Coordination

- Conducted progress meeting with TxDOT PM.
- Submitted invoice & progress report.
- Updated project schedule.
- Updated County on progress.
- Submitted proposal for extra work to County on March 25, 2016.

Task X. Project Coordination & Administration – PB

- Attended design team meetings.

Task XI. SW3P Plans – PB

- Advanced design to 90%.

Task XII. Traffic Control Plans – PB

- Advanced TCP to 90%.
- Attended & participated in TCAT meeting.
- Began incorporating TCAT comments into TCP.

Task XIII. Gapps Slough Bridge Class Culvert– PB

- Submitted Bridge Class Culvert Layout to TxDOT for Review/Approval.
- Advanced design of bridge class culvert details for 90% submittal.
- Incorporated drainage design changes into culvert design.

Task XIV. Rabbs Bayou Bridge– PB

- Submitted Bridge Layout to TxDOT for Review/Approval.
- Advanced design of bridge for 90% submittal.

Task XV. Noise Walls – PB

- Revised noise wall layouts to incorporate changes requested by TxDOT to noise model.

Task XVI. Safety Lighting – PB

- This task has not started.

Task XVII. Submittals – PB

- Prepared plans for 90% submittal.

Task XVIII. Geotechnical Investigations – HTS

- No activity reported this period.

Task XIX. Field Surveying & ROW Mapping – HZI

- No activity reported this period.

Activities Anticipated Next Reporting Period

- Receive 90% review comments from TxDOT.
- Resubmit TCP.
- Monitor status of RR exhibit review.
- Receive bridge layout approval from TxDOT.
- Negotiate Extra Work Proposal with County.

Peterson, Jillian

From: Don Durgin <Don.Durgin@klotz.com>
Sent: Wednesday, May 11, 2016 3:54 PM
To: Peterson, Jillian
Subject: PO 125695 - X28 CRR Design Invoice 011
Attachments: X28 CRR Invoice 011 - 10707.pdf

Jillian,

I have reviewed the attached invoice and recommend approval. It is a large invoice because we have reached a milestone submittal. The 90% was submitted in late March. Please process for payment against PO 125695. Thanks.

Donald M. Durgin, P.E.
Transportation Practice Manager - RPS Klotz Associates
1160 Dairy Ashford, Suite 500
Houston, Texas, 77079
Tel: 281 589 7257
Mobile: 713 269 3913
Email: Don.Durgin@klotz.com
www: rpsgroup.com | klotz.com
