

PO # 174087  
 OMS REC 495482

**DANNENBAUM ENGINEERING CORPORATION**

3100 WEST ALABAMA HOUSTON, TEXAS 77098 P.O. BOX 22292 HOUSTON, TEXAS 77227 (713) 520-9570

Richard Stolleis, P.E.  
 Fort Bend County  
 301 Jackson Street  
 Richmond, Texas 77469-3108

Invoice Date: June 12, 2019  
 Invoice Period: 05/01/19 Through 05/31/19  
 Invoice Number: 479701/03/II

For Professional Services:

In connection with PS&E for FM 521 Expansion Project from FM 2234 to SH 6  
 P.O. Number 174087

DESCRIPTION OF WORK TASK	TOTAL CONTRACT AMOUNTS	PERCENT COMPLETE TO DATE	AMOUNTS EARNED TO DATE	PREVIOUSLY INVOICED AMOUNTS	CURRENT INVOICE AMOUNTS
<b>Final PS&amp;E Engineering</b>					
Roadway Design (Dannenbaum)	\$ 597,189.08	9.52%	\$ 56,849.95	\$ 13,681.81	\$ 43,168.14
Drainage Design (Dannenbaum)	\$ 496,261.25	0.00%	\$ -	\$ -	\$ -
Traffic - Signing & Pavement Marking (Infratech)	\$ 125,958.58	2.00%	\$ 2,519.17	\$ -	\$ 2,519.17
Traffic - Signals (Infratech)	\$ 252,812.30	10.06%	\$ 25,435.39	\$ 5,187.52	\$ 20,247.87
Traffic - Illumination (Infratech)	\$ 130,009.66	0.00%	\$ -	\$ -	\$ -
Misc. Roadway & TCP (Dannenbaum)	\$ 518,672.45	4.22%	\$ 21,891.26	\$ 14,238.07	\$ 7,653.19
Structural Design - Broadway Bridge (LJA)	\$ 282,225.00	2.61%	\$ 7,368.58	\$ 6,367.95	\$ 1,000.63
Structural Design - Misc. Structures (Dannenbaum)	\$ 119,876.74	0.00%	\$ -	\$ -	\$ -
Management (Dannenbaum)	\$ 226,646.78	9.97%	\$ 22,598.80	\$ 15,799.40	\$ 6,799.40
Management (LJA)	\$ 83,960.00	11.24%	\$ 9,434.21	\$ 5,577.75	\$ 3,856.46
Management (Infratech)	\$ 33,415.36	9.27%	\$ 3,097.60	\$ 1,936.00	\$ 1,161.60
<b>Extras</b>					
Survey (LJA)	\$ 224,235.00	38.18%	\$ 85,615.15	\$ 53,001.25	\$ 32,613.90
ROW Parcel Mapping (LJA)	\$ 310,955.00	24.80%	\$ 77,123.75	\$ 30,849.50	\$ 46,274.25
Geotechnical (Associated Testing Laboratories)	\$ 264,264.00	59.70%	\$ 157,759.75	\$ 66,066.75	\$ 91,693.00
Drainage Impact Study (LJA)	\$ 457,220.00	7.72%	\$ 35,281.00	\$ 5,345.00	\$ 29,936.00
Utility Coordination (Dannenbaum)	\$ 225,379.39	0.00%	\$ -	\$ -	\$ -
SUE (LJA)	\$ 214,405.00	0.00%	\$ -	\$ -	\$ -
Project Initiation & Planning (Dannenbaum)	\$ 30,000.00	100.00%	\$ 30,000.00	\$ 30,000.00	\$ -
Items as Authorized by County	\$ 40,000.00	0.00%	\$ -	\$ -	\$ -
Direct Expenses (Dannenbaum)	\$ 26,725.00	0.00%	\$ -	\$ -	\$ -
Direct Expenses (LJA)	\$ 20,250.00	0.11%	\$ 22.04	\$ -	\$ 22.04
Direct Expenses (Infratech)	\$ 612.00	0.00%	\$ -	\$ -	\$ -
<b>Bid/Construction Phase Services</b>					
Post Design Services (Dannenbaum)	\$ 80,340.29	0.00%	\$ -	\$ -	\$ -
Post Design Services (LJA)	\$ 72,540.00	0.00%	\$ -	\$ -	\$ -
Post Design Services (Infratech)	\$ 34,935.12	0.00%	\$ -	\$ -	\$ -
<b>Total Management &amp; Engineering Fees</b>	\$ 4,868,888.00	10.99%	\$ 534,996.65	\$ 248,051.00	\$ 286,945.65

**TOTAL AMOUNT DUE THIS INVOICE: \$286,945.65**

479701/MJK/II

OK - AIA  
 6/17/2019

**Progress Report No. 03  
From May 01, 2019 to May 31, 2019  
Report Date: June 11, 2019**

**Project: FM 521 Expansion Project, Precinct 1  
FM 2234 to SH 6**

**Activities this Billing Period:**

**Project Management (Dannenbaum)**

- Held weekly progress conference calls with Project Design Team.
- Coordinated and managed surveying, geotechnical, drainage, and PS&E design efforts.
- Coordinated with Fort Bend County Engineering and TxDOT Project Manager.
- Updated Design Summary Report based on comments from TxDOT.

**PS&E Design (Dannenbaum)**

- Continued plan set production.
- Began Roadway Plan & Profile Sheets and Intersection Layouts.
- Reviewed Roadway Design. Added driveway locations and began review of proposed profile.
- Continued conceptual Traffic Control Plan and Construction Staging.

**Survey (LJA)**

- Continued surveying field activities and ROW mapping development.
- Coordinated with UPRR to obtain access for surveying.
- Coordinated with USIC Locating and AT&T to mark existing utilities as survey continued along project corridor.
- Coordinated with utility companies to obtain available information and verify lines are marked.
- Processed field survey results and updated topo DGN files.

**Geotechnical (Associated Testing Laboratories)**

- Completed laboratory testing for all field borings completed to date.
- Specialized testing – Consolidation is in progress and Multi-Specimen Cu tests require detention pond borings.
- Analysis & Report Preparation: Preparing field data, laboratory tests, and finalized boring logs.
- Working on Draft Geotechnical Report.

### **Drainage Study (LJA)**

- Completed work on Hydrology, including hydrographs at outfalls.
- Developed existing and proposed SWMM Models.
- Designed Major conveyance ditch and trunk line sizes.
- Coordinated with Dannenbaum to verify major conveyance and profile.
- Began compiling Drainage Study report.

### **Traffic Design (infraTECH)**

- Signing & Pavement Marking: Prepared sheet layouts and started design. Documented existing signage along project corridor.
- Traffic Signals: Performed Signal Warrant Analysis and submitted draft report.

### **Activities Next Month:**

#### **Project Management (Dannenbaum)**

- Schedule Design Concept Conference and Drainage Coordination Meeting with TxDOT.
- Attend Meetings with Fort Bend County and affected property owners.
- Continue weekly conference calls with Project Design Team.
- Continue coordination with sub consultants.

#### **PS&E Design (Dannenbaum)**

- Continue plan set production.
- Continue review of Schematic Geometric design, focusing on proposed profile grade line.
- Continue conceptual Traffic Control Plan and Construction Staging.
- Continue review of intersections, side streets, driveways, and existing UPRR crossings.

#### **Survey (LJA)**

- Complete topography survey.
- Complete update to survey CAD file.
- Continue utility survey, including Level B SUE.
- Obtain Right of Entry to complete existing parcel surveys.
- Continue preparation of Right of Way Maps.

**Geotechnical (Associated Testing Laboratories)**

- Complete draft report for review by design team.
- Complete final borings at detention ponds upon ROE clearance and authorization.

**Drainage Study (LJA)**

- Complete development of existing and proposed SWMM Models, including detention mitigation for 100-yr event.
- Complete design of major conveyance ditch and trunk line sizes.
- Coordinate with Roadway Design to verify major conveyance and profile.
- Schedule meeting with TxDOT to discuss project parameters, including WSE in comparison to roadway PGL.
- Continue draft Drainage Study report in preparation for submittal to TxDOT.

**Traffic Design (infraTECH)**

- Signing & Pavement Marking: Continue design and sheet production.
- Traffic Signals: Prepare signal condition diagram.

**Approvals and Planned Deliverables next Month:**

- Schedule Design Concept Conference with TxDOT.



Michael J. Kaspar, P.E.  
Dannenbaum Engineering Corporation