

# DANNENBAUM ENGINEERING CORPORATION

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

ENGINEERING  
EXCELLENCE  
SINCE  
1945

Richard Stolleis, P.E.  
Fort Bend County  
P.O. Box 1449  
Rosenberg, Texas 77471

Invoice Date: September 17, 2012  
Invoice Period: 08/01/12 Through 08/31/12  
Invoice Number: 459301/10/II

For Professional Services:

In connection with improvements to FM 1093 from State Highway 99 to west of FM 359 in Fort Bend County  
Work Authorization No. 1, including Amendment No. 1

Mobility Bond Project #748

DESCRIPTION OF WORK TASK	TOTAL CONTRACT AMOUNTS	PERCENT COMPLETE TO DATE	AMOUNTS EARNED TO DATE	PREVIOUSLY INVOICED AMOUNTS	CURRENT INVOICE AMOUNTS
<b>Pre-Award Costs</b>					
Dannenbaum Engineering Corporation	\$ 100,000.00	100.00%	\$ 100,000.00	\$ 100,000.00	\$ -
<b>PHASE I</b>					
<b>Advanced Planning</b>					
Environmental / NEPA (Jacobs)	\$ 189,506.00	71.22%	\$ 134,972.42	\$ 129,059.72	\$ 5,912.70
Schematic Design (Klotz)	\$ 181,731.00	98.00%	\$ 178,096.38	\$ 172,644.45	\$ 5,451.93
Drainage Impact Report (Klotz)	\$ 182,020.00	98.00%	\$ 178,379.60	\$ 172,919.00	\$ 5,460.60
<b>Management &amp; Engineering</b>					
Management (DEC) (See attached for breakdown)	\$ 1,126,445.09	25.39%	\$ 286,029.97	\$ 244,931.09	\$ 41,098.88
Segment D Design (Costello)	\$ 925,000.00	26.38%	\$ 243,973.34	\$ 157,561.54	\$ 86,411.80
Segment C Design (BBI)	\$ 925,000.00	22.99%	\$ 212,635.05	\$ 139,079.83	\$ 73,555.22
Segment B Design (Half)	\$ 350,000.00	25.29%	\$ 88,499.30	\$ 88,499.30	\$ -
TCP Design (Klotz)	\$ 284,040.00	24.00%	\$ 68,169.60	\$ 56,808.00	\$ 11,361.60
Traffic Engineering (Teds - Signing & Signals)	\$ 208,176.00	21.49%	\$ 44,742.10	\$ 44,742.10	\$ -
<b>Construction Management, Inspection &amp; Material Testing</b>	\$ -	0.00%	\$ -	\$ -	\$ -
<b>Extras</b>					
Survey (Weisser)	\$ 272,180.00	89.98%	\$ 244,907.62	\$ 244,907.62	\$ -
ROW Parcel Mapping (Weisser)	\$ 90,000.00	85.59%	\$ 77,027.96	\$ 60,182.60	\$ 16,845.36
Geotechnical (HTS)	\$ 100,000.00	91.33%	\$ 91,333.00	\$ 85,033.00	\$ 6,300.00
Signal Warrant Studies (Teds)	\$ 2,820.00	90.00%	\$ 2,538.00	\$ 2,538.00	\$ -
Utility Coordination (DEC) (See attached for breakdown)	\$ 116,451.55	32.39%	\$ 37,720.56	\$ 25,861.44	\$ 11,859.12
Utility Locating - SUE (LTRA)	\$ 63,565.82	0.00%	\$ -	\$ -	\$ -
Direct Expenses (DEC) (See attached for breakdown)	\$ 39,689.54	2.83%	\$ 1,122.61	\$ 862.51	\$ 260.10
<b>PHASE II</b>					
<b>Advanced Planning</b>					
Environmental (Klotz)	\$ 297,135.00	52.00%	\$ 154,509.81	\$ 124,796.39	\$ 29,713.42
Schematic Design (Klotz)	\$ 116,100.00	60.00%	\$ 69,660.00	\$ 50,630.00	\$ 19,030.00
Drainage Impact Report (Klotz)	\$ 76,555.00	60.00%	\$ 45,933.00	\$ 26,432.00	\$ 19,501.00
<b>Management &amp; Engineering</b>					
Management (DEC) (See attached for breakdown)	\$ 280,546.00	10.96%	\$ 30,761.02	\$ 20,288.24	\$ 10,472.78
Segment B - Section 1 Design (Half)	\$ 586,500.00	0.00%	\$ -	\$ -	\$ -
Segment B - Section 2 Design (DEC) (See attached for breakdown)	\$ 443,710.00	0.00%	\$ -	\$ -	\$ -
Segment A Design (CivilCorp)	\$ 536,527.00	0.00%	\$ -	\$ -	\$ -
TCP Design (DEC) (See attached for breakdown)	\$ 287,808.00	0.00%	\$ -	\$ -	\$ -
Traffic Engineering (Teds - Signing & Signals)	\$ 200,182.00	0.00%	\$ -	\$ -	\$ -
<b>Construction Management, Inspection &amp; Material Testing</b>	\$ -	0.00%	\$ -	\$ -	\$ -
<b>Extras</b>					
Survey (Weisser)	\$ 50,000.00	0.00%	\$ -	\$ -	\$ -
ROW Parcel Mapping (Weisser)	\$ 95,945.00	51.50%	\$ 49,411.68	\$ 37,130.72	\$ 12,280.96
Geotechnical (HTS)	\$ 115,000.00	0.00%	\$ -	\$ -	\$ -
Utility Coordination (DEC) (See attached for breakdown)	\$ 92,722.00	0.16%	\$ 143.75	\$ -	\$ 143.75
Utility Locating - SUE (LTRA)	\$ 46,610.00	0.00%	\$ -	\$ -	\$ -
Direct Expenses (DEC) (See attached for breakdown)	\$ 25,000.00	0.00%	\$ -	\$ -	\$ -
<b>TOTALS</b>	<b>\$ 8,406,965.00</b>	<b>27.84%</b>	<b>\$ 2,340,566.77</b>	<b>\$ 1,984,907.55</b>	<b>\$ 355,659.22</b>

**TOTAL AMOUNT DUE THIS INVOICE: \$355,659.22**

DESCRIPTION OF WORK TASK	HOURS/UNITS	RATE	AMOUNT
<b>Details for Dannenbaum Engineering Corporation</b>			
<b>Management &amp; Engineering Phase I</b>			
Management (DEC)			
David Milner, Project Manager	51.00	\$ 313.10	\$ 15,968.10
Al Flores, Project Manager	3.50	243.74	853.09
Larry Marr, Project Manager	12.50	207.18	2,589.75
Michael Kaspar, Project Engineer	89.50	143.75	12,865.63
Uttam Karmaker, Project Engineer	38.00	128.12	4,868.56
Louis Cottrell, Project Engineer	19.50	121.27	2,364.77
Gavin Thompson, Engineering Technician	1.00	87.43	87.43
Heather Arcolas, Clerical	14.00	85.93	1,203.02
Tuan Nguyen, Clerical	7.75	38.52	298.53
Subtotal	236.75		\$ 41,098.88
<b>Extras - Phase I</b>			
Utility Coordination (DEC)			
Michael Kaspar, Project Engineer	6.00	\$ 143.75	\$ 862.50
Loc Dang, Project Engineer	102.00	107.81	10,996.62
Subtotal	108.00		\$ 11,859.12
<b>Direct Expenses - Phase I</b>			
A&E Products - Outside Reproduction			
D. Milner - Mileage	185.00	\$ 0.555	\$ 102.68
M. Kaspar - Mileage	116.00	0.555	64.38
Subtotal			\$ 260.10
<b>Management &amp; Engineering Phase II</b>			
Management (DEC)			
David Milner, Project Manager	25.00	\$ 313.10	\$ 7,827.50
Michael Kaspar, Project Engineer	18.00	143.75	2,587.50
Tuan Nguyen, Clerical	1.50	38.52	57.78
Subtotal	44.50		\$ 10,472.78
<b>Extras - Phase II</b>			
Utility Coordination - Phase II			
Michael Kaspar, Project Engineer	1.00	\$ 143.75	\$ 143.75
Subtotal	1.00		\$ 143.75
<b>TOTAL</b>			<b>\$ 63,834.63</b>

**Progress Report No. 10**  
**From August 01, 2012 to August 31, 2012**  
**Report Date: September 10, 2012**

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**Mobility Bond Project #748, Precinct 3**

**Description:** FM 1093 Westpark Tollroad Extension Phase I  
SH 99 to FM 359

**Fort Bend County Engineer:** Richard Stolleis, P.E.

**Project Director:** David Milner, P.E.  
Dannenbaum Engineering Corporation (DEC) - Houston

**Narrative:**

Our efforts in August were focused on the completion of the schematic design, hydraulic impact analysis, and the draft environmental assessment. The Draft EA was revised based on comments from TxDOT Austin ENV received on July 20. We anticipate re-submittal to TxDOT in September and submittal to FHWA by October. The final Schematic was submitted to TxDOT Austin on August 23. The Hydraulic Impact Report was re-submitted to TxDOT on August 21 followed by meetings with TxDOT to discuss review comments. During August we continued design and plan production toward a 30% PS&E submittal to TxDOT in September. A more detailed list of August activities is shown below.

**Activities This Month:**

**Environmental Process**

- Continued addressing comments in anticipation of a September resubmittal to TxDOT.
- Worked with County to develop a justification letter addressing early property acquisitions. This letter will be provided as a response to TxDOT ENV.

**Survey**

- Continued work on parcel drawings and metes and bounds descriptions.

**Geotechnical**

- Revised preliminary geotechnical report based on internal review comments.

**Schematic**

- Revised schematic design based on TxDOT and segment designers' comments.
- Updated cross sections based on revised drainage design.
- Prepared schematic for final submittal to TxDOT.

**Hydraulic Impact Report**

- Revised hydraulic design based on TxDOT and segment designers' comments.
- Prepared report for submittal to TxDOT.
- Met with TxDOT to present revised report on August 21.

**Progress Report No. 10**  
**From August 01, 2012 to August 31, 2012**  
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**Utilities**

- Continued utility research based on an initial utility inventory.
- Continued coordination with private utility companies.
- Updated utility conflict list.
- Met with S.U.E. company to begin further utility locating on August 31.

**Segment Design (PS&E)**

- Reviewed schematic and hydraulic impact analysis.
- Continued preparation of PS&E documents.
- Developed traffic control phasing designs, as roll plots.
- Met with TxDOT on August 14<sup>th</sup>, to discuss FM 723 improvements planned by TxDOT.

**Approvals and Deliverables this Month:**

- Submitted revised Hydraulic Impact Analysis to TxDOT on August 21.
- Submitted final Schematic to TxDOT Austin on August 23.
- Submitted proposed drainage design parameters to L.I.D. #12 on August 24.

**Activities Next Month:**

**Environmental Process**

- Address Draft EA comments from TxDOT Austin ENV.
- Resubmit Draft EA to TxDOT Austin ENV.

**Survey**

- Complete preparation of parcel drawings and metes and bounds descriptions for remaining parcel acquisitions.

**Geotechnical**

- Complete geotechnical report and submit to TxDOT.

**Schematic**

- Address review comments from TxDOT Austin.

**Hydraulic Impact Report**

- Address review comments from TxDOT.

**Utilities**

- Continue review of surveyed utility information.
- Update Utility Conflict List.
- Begin S.U.E. utility locating.

**Segment Design (PS&E)**

- Continue preparation of PS&E documents toward 30% submittal.

**Progress Report No. 10**  
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**Approvals and Deliverables next Month:**

- Submit geotechnical report to TxDOT for review.
- Submit bridge layouts to TxDOT for review.
- Submit 30% PS&E to TxDOT for review.

**Schedule:**

Program Schedule is monitoring right of way survey, environmental assessment, schematic design and approval, and hydraulic report design and approval activities. These efforts are on-schedule when compared against the baseline timetables, previously discussed with the County.

**Projection Report:**

Efforts related to survey, geotechnical investigations, schematic design, hydraulic impact report, and the environmental process will continue. Work will continue on Segment Design in September with extensive coordination between preliminary designer and segment designers. Activities are moving forward with design and expect to have a 30% package completed by September.

**Issues and Concerns:**

- Coordination with METRO to acquire property in a timely manner
- Finalizing Toll Collection points and Ramp locations with toll road authority.
- Development of the Program cost-sharing plan between FBC and toll road.
- Coordination with L.I.D. #12 to finalize drainage design and receive Fort Bend County Drainage District approval.

**Assessment:**

Our efforts are focused on continuing to obtain environmental clearance and continuing design of the project. Our immediate priority is to complete schematic and hydraulic design so that final segment design can continue.



David R. Milner, P.E.

**Progress Report No. 05**  
**From August 01, 2012 to August 31, 2012**  
**Report Date: September 10, 2012**

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**Mobility Bond Project #748, Precinct 3**

**Description:** FM 1093 Westpark Tollroad Extension Phase II  
FM 359/FM 1463 to James Lane in Fulshear

**Fort Bend County Engineer:** Richard Stolleis, P.E.

**Project Director:** David Milner, P.E.  
Dannenbaum Engineering Corporation (DEC) - Houston

**Narrative:**

Our efforts in August were focused on survey, schematic design, hydraulic analysis, and environmental assessment development. A Public Meeting is scheduled for September 20 at Irene Stern Community Center in Fulshear. A more detailed list of August activities is shown below.

**Activities This Month:**

**Environmental Process**

- Completed project Scope for Environmental Review document.
- Continued development of draft Environmental Assessment (EA).
- Continued preparation of input files for TNM 2.5.
- Continued indirect and cumulative impact analyses.
- Continued water resources and floodplain work.
- Continued work on land use, visual and construction impacts, migratory bird impacts, invasive species, and beneficial landscaping.
- Prepared for public meeting on September 20.
- Met with TxDOT on August 31 to discuss upcoming Public Meeting.

**Survey**

- Began survey of drainage features, including culverts crossing METRO property.
- Continued preparation of control data sheets and survey control maps.
- Continued work on parcel drawings and metes and bounds descriptions.

**Schematic**

- Continued development of preliminary schematic plan, profiles, and typical sections.
- Developed intersection layouts based on projected turning movement volumes.
- Developed DCC Form.
- Coordinated preliminary ditch typical sections and profiles with drainage designers.
- Met with City of Fulshear to discuss FM 359 intersection on August 29.
- Assisted with development of exhibits for Public Meeting.

**Progress Report No. 05**  
**From August 01, 2012 to August 31, 2012**  
**Report Date: September 10, 2012**

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**Hydraulic Impact Report**

- Finalized Drainage Area Maps.
- Coordinated with FBC Drainage District.
- Reviewed Cross Creek Ranch and Lamar ISD drainage studies
- Compiled existing and proposed drainage model subareas.
- Calculated existing and proposed hydrology for corridor, Flewellen Creek, Jones Creek tributaries, and Bessie's Creek cross culverts
- Completed existing SWMM models for corridor and cross culverts
- Continued proposed SWMM models for corridor and cross culverts

**Utilities**

- Continued utility research based on an initial utility inventory.
- Continued coordination with private utility companies.
- Created initial utility conflict list.
- Created SUE plan for further utility locating.

**Approvals and Deliverables this Month:**

- Final EA Scoping Document approved by TxDOT on August 31.

**Activities Next Month:**

**Environmental Process**

- Continue development of draft EA.
- Meet with TxDOT prior to Public Meeting.
- Conduct Public Meeting on September 20.

**Survey**

- Continue preparation of control data sheets and survey control maps.
- Develop parcel drawings and metes and bounds descriptions along FM 1093 and METRO right-of-way from FM 1463 to James Lane.

**Geotechnical**

- Begin geotechnical investigations.

**Schematic**

- Develop preliminary cross sections every 100'.
- Finalize proposed right of way.
- Prepare preliminary construction cost estimate.
- Complete preliminary schematic for internal review.

**Hydraulic Impact Report**

- Complete existing and proposed drainage SWMM Models.
- Complete Hydraulic Impact Report for internal review.

**Progress Report No. 05**  
**From August 01, 2012 to August 31, 2012**  
**Report Date: September 10, 2012**

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**Utilities**

- Complete and send out utility request letters.
- Continue review of surveyed utility information.
- Update initial utility conflict list.
- Complete SUE plan and begin utility locating.

**Approvals and Deliverables next Month:**

- Conduct Public Meeting in Fulshear on September 20.
- Submit Schematic for internal review.
- Submit Hydraulic Impact Report for internal review.

**Schedule:**

Program Schedule is monitoring right of way survey, environmental assessment, schematic design, and hydraulic report design activities. These efforts are on-schedule when compared against the baseline timetables, previously discussed with the County.

**Projection Report:**

Efforts related to survey, schematic design, hydraulic impact report, and the environmental process will continue. We plan to begin geotechnical investigations in September.

**Issues and Concerns:**

- Coordination with METRO to acquire property in a timely manner.
- Resolution of proposed alternatives west of Cross Creek Ranch including FM 1093/FM 359 Intersection where proposed boulevard sections crosses METRO property.
- Resolution of proposed alternatives for eastbound frontage road as it relates to METRO property and property owners south of METRO.

**Assessment:**

Our efforts are focused on continuing to obtain environmental clearance and beginning design of the project. Our immediate priority is to confirm the alignment west of Cross Creek Ranch based on the option preferred by the City of Fulshear.



David R. Milner, P.E.



# INVOICE

Please Remit to:

**A&E - The Graphics Complex**  
A DIVISION OF THOMAS REPROGRAPHICS, INC.  
P.O. Box 27286, Houston, TX 77227  
713.621.0022 • Fax: 713.621.2537  
www.aecomplex.com

INVOICE DATE  
07/25/12

PAGE  
1

INVOICE NO.  
144197

LOC-0 LI-0 REF> 631906  
A&E 0640

project # 4593-01/4750.00  
WT 13.56 0

DANNENBAUM ENGINEERING CORP  
ATTN ACCOUNTS PAYABLE  
3100 W ALABAMA ST  
HOUSTON TX 77098-2004

SHIP TO  
4:00P  
(713) 520-9570

SM	WORK ORDER#	ACCOUNT NO.	REFERENCE	JOB#	P.O. NO.	SHIP DATE	TERMS	
JG	001984451	18550	144197	FULSHEAR		07/25/12	DUE 08/10/12	
		QUANTITY	UNIT	DESCRIPTION	UNIT PRICE			TOTAL
1 PRINTS		29	SF	ECONOMY COLOR SCAN SQ FT				21.75
				1 set of 1 orig. (36 X 114)				
		1	EA	CD BURN				10.40
1 PRINTS		29	SF	ECONOMY PT W/COLOR FILL				42.05
				1 set of 1 orig. (36 X 114)				
		1	EA	DELIVERY TO CUSTOMER - ZONE 1				11.75
		1	EA	PICKUP SERVICE (IF APPLICABLE)				NO CHARGE
ORDERED BY: HEATHER ARCDLAR INVOICED BY: M. TORRES				SUB-TOTAL TAX (TX)				85.95 7.09
				SUGGESTIONS? COMPLIMENTS? COMPLAINTS? LEAVE A MESSAGE ON OUR REACTION LINE @ (713) 621-0805 OR EMAIL TO info@aecomplex.com OR CLICK ON CUSTOMER FEEDBACK AT www.aecomplex.com				EXT. 3333 www.aecomplex.com
CDS (0725 0400P) REC. BY:				Gale Holland TIME: 16:00 NO. 2 rolls PKGS: 16.00				

PHYSICAL ADDRESS: 4235 RICHMOND AVE., HOUSTON, TEXAS 77027  
DUE AND PAYABLE IN HOUSTON, HARRIS COUNTY, TEXAS 77027

TOTAL AMOUNT DUE

**\$862.23**

[illegible]

\$76.59

[illegible]

\* - No Receipt. Cash paid on surface lot downtown.