

MEMORIAL CITY
REDEVELOPMENT AUTHORITY,
TIRZ No. 17,
City of Houston



Agenda and Agenda Materials
Meeting of the Board of Directors

February 28, 2023

**JOINT MEETING OF THE BOARD OF DIRECTORS OF THE
TIRZ 17 REDEVELOPMENT AUTHORITY/MEMORIAL CITY REDEVELOPMENT AUTHORITY
and TAX REINVESTMENT ZONE NUMBER SEVENTEEN
HOUSTON, TEXAS**

NOTICE is hereby given that the Board of Directors of the TIRZ 17 Redevelopment Authority (aka the Memorial City Redevelopment Authority) and the Tax Reinvestment Zone Number Seventeen, City of Houston, Texas, will hold a joint meeting on **Tuesday, February 28, 2023, at 8:00 a.m.**, at Hawes Hill & Associates LLP, Spring Branch Conference Room, 9600 Long Point Road, Suite 250, Houston, Texas 77055 ***"Masks Suggested, Social Distancing Recommended"*** public is welcome to attend in person or via Zoom videoconference at: <https://us02web.zoom.us/j/82564961116?pwd=YzAzSExwbzhXOU1QWHJ0cVBjaiB1UT09;> or via teleconference at: (346) 248-7799; Meeting ID: **825 6496 1116**; Password: **833332**; open to the public, to consider, discuss, and adopt such orders, resolutions or motions, and take direct actions as may be necessary, convenient, or desirable, with respect to the following matters:

AGENDA

1. Establish quorum and call meeting to order.
2. Receive public comments. (In accordance with City of Houston procedures, a statement of no more than 3 minutes may be made on items of general relevance. However, if a person has spoken regarding a topic within the last 4 meetings, their time will be limited to 1 minute. There will be no yielding of time to another person. State law prohibits the Board Chair or members of the Board from deliberating a topic without an appropriate agenda item being posted in accordance with the Texas Open Meetings Law; therefore, questions or comments will not be addressed. Engaging in verbal attacks or comments intended to insult, abuse, malign or slander any individual shall be cause for termination of time privileges).

Any public comments must be made in-person at the posted meeting location or submitted in writing by 5:00 p.m. Monday, February 27, 2023, to lclayton@haweshill.com and it will be read aloud during the public comment section.

3. Approve Minutes of the December 6, 2022, regular meeting.
4. Receive financial and bookkeeper's report, including approval of payment of invoices, review of investments, and project cash flow reports; and ratify payment of January invoices.
5. Receive update from City of Houston regarding Detention Basin A project.
6. CIP Committee update and recommendations:
 - a. Receive update from Gauge Engineering, LLC.
 - i. Consider Amended Task Order, Memorial Drive Phase 2, correcting clerical error,
 - ii. Consider Task Order, W140 Basin Deepening, for geotechnical survey and professional engineering services.
 - b. Receive update from The Goodman Corporation.
 - c. Receive update from SWA.
 - i. Consider Task Order No. 21, Memorial Drive Phase II, landscape design services.
7. Convene in Executive Session pursuant to Section 551.071, Texas Government Code, to conduct a private consultation with attorney with regard to pending or contemplated litigation.
8. Reconvene in Open Session and authorize appropriate actions regarding to private consultation with attorney with regard to pending or contemplated litigation.
9. Adjournment.



Executive Director for Authority

*Persons with disabilities who plan to attend this meeting and would like to request auxiliary aids or services are requested to contact the Authority's Executive Director at (713) 595-1200 at least three business days prior to the meeting so that the appropriate arrangements can be made. The Board will conduct an in-person meeting at its physical meeting location. As an accommodation during the current levels of transmission during this COVID-19 virus epidemic emergency, the Board is making available a Zoom teleconference and/or videoconference option for members of the public to participate and to address the Board. Members of the Board may participate by videoconference in accordance with requirements of the Texas Open Meetings Act, provided a quorum of the Board meets in-person. Pursuant to V.T.C.A Government Code, Chapter 551, as amended, the Board of Directors may convene in closed session to receive advice from legal counsel and discuss matters relating to pending or contemplated litigation, personnel matters, gifts and donations, real estate transactions, the deployment, or specific occasions for the implementation of, security personnel or devices and or economic development negotiations.

MEMORIAL CITY REDEVELOPMENT AUTHORITY TIRZ No. 17,
HOUSTON, TEXAS

AGENDA MEMORANDUM

TO: Memorial City Redevelopment Authority TIRZ No. 17 Board of Directors
FROM: Executive Director
SUBJECT: Agenda Item Materials

3. Approve Minutes of the December 6, 2022, regular meeting.

**MINUTES OF THE JOINT MEETING OF THE
TIRZ 17 REDEVELOPMENT AUTHORITY/MEMORIAL CITY REDEVELOPMENT AUTHORITY and
TAX REINVESTMENT ZONE NUMBER SEVENTEEN, CITY OF HOUSTON, TEXAS
BOARD OF DIRECTORS**

December 6, 2022

ESTABLISH QUORUM AND CALL MEETING TO ORDER.

The Board of Directors of the TIRZ 17 Redevelopment Authority/Memorial City Redevelopment Authority and Tax Reinvestment Zone Number Seventeen, City of Houston, Texas, held a regular joint meeting at Hawes Hill & Associates LLP, 9600 Long Point Road, Spring Branch District Conference Room, Suite 250, Houston, Texas 77055, open to the public on Tuesday, December 6, 2022, at 8:00 a.m., and open to the public via videoconference, and the roll was called of the duly appointed members of the Board, to-wit:

Position 1 – Andy Iversen

Position 2 – John Rickel, *Vice-Chair*

Position 3 – David P. Durham, *Secretary*

Position 4 – Ann T. Givens, *Chair*

Position 5 – Zachary R. Hodges, *Asst. Secretary*

Position 6 – Brad Freels

Position 7 – Dan Moody III

and all of the above were present, thus constituting a quorum. Also present were Scott Bean, and Linda Clayton, Hawes Hill & Associates, LLP; Sanjay Bapat, Allen Boone Humphries Robinson, LLP; and Pat Hall, ETI Bookkeeping Services. Others attending the meeting were Andrew Busker, COH - Economic Development Dept.; James Rains, District G; Council Member Amy Peck, District A; Ben Gillis, and Gabrielle Luevano, Memorial Management District; Muhammad Ali and Derek St. John, Gauge Engineering; Bruce Nichols; Marlene Gafrick; Margaret Dunlap; Lois Myers; and Emily Anderson. Chair Givens called the meeting to order at 8:02 a.m.

RECEIVE PUBLIC COMMENTS.

Public comments were received from Lois Myers and Bruce Nichols.

APPROVE MINUTES OF THE SEPTEMBER 27, 2022, REGULAR MEETING.

Upon a motion made by Director Freels, and seconded by Director Durham, the Board voted unanimously to approve the Minutes of the September 27, 2022, Board meeting, as presented.

ANNUAL REVIEW OF PROCEDURES FOR CONTINUING DISCLOSURE COMPLIANCE.

Mr. Bapat reported he has reviewed the Authority's current procedures for continuing disclosure compliance and stated no changes are recommended. No action from the Board was required.

CONSIDER ANNUAL REPORT AND AUTHORIZE FILING OF SAME WITH APPROPRIATE INFORMATION DEPOSITORIES IN ACCORDANCE WITH THE AUTHORITY'S CONTINUING DISCLOSURE OF INFORMATION AGREEMENT AND AS REQUIRED BY SEC RULE 15c2-12.

Mr. Bapat reported pursuant to SEC Rule 15C2-12 the Authority is required to file an Annual Report on outstanding municipal debt issues. He reported his office is gathering the information required to file the Annual Report and is requesting the Board's authorization to file the report. Upon a motion

made by Director Durham, and seconded by Director Iversen, the Board voted unanimously to authorize Director Rickel to review, approve and authorize filing of the Annual Report.

Mr. Busker answered questions regarding a life extension of the zone and reported no life extensions were given for any TIRZ this fiscal year.

RECEIVE FINANCIAL AND BOOKKEEPER'S REPORT, INCLUDING APPROVAL OF PAYMENT OF INVOICES, REVIEW OF INVESTMENTS, AND PROJECT CASH FLOW REPORTS; AND RATIFY PAYMENT OF OCTOBER INVOICES.

Ms. Hall presented the Bookkeeper's Report and went over invoices, included in the Board materials. Upon a motion made by Director Rickel, and seconded by Director Moody, the Board voted unanimously to accept the Bookkeeper's Report and approved payment of invoices; and ratified payment of the October invoices.

CIP COMMITTEE:

a. Project update and recommendations from Gauge Engineering LLC.

Mr. St. John provided an update on the W-140 Basin Deepening project. He reported the 60% construction plan set has been submitted to the City for review. He reported the location of the pump station is being shifted from the southwest corner of the site to the northwest corner due to a higher water table identified than previous geotechnical borings. Mr. Ali provided an update on Memorial Drive Phase 1 project. He reported the project is approximately 96% complete. He answered questions regarding landscaping and trees for the project. Mr. Ali provided an update on Memorial Drive Phase 2 and answered questions.

i. Consider Task Order for Memorial Drive Phase 2, for design services.

Mr. Ali reviewed the Task Order for Memorial Drive Phase 2 for design services including plans, specifications, estimates in the amount of \$1,304,200.00, which will advance the plans to 30%. He reported the scope of services follows TxDOT requirements for a TIP funding application. He reported Gauge will not move forward with performing detailed 60%, 90%, 95% or final submittals until federal funding is received and TxDOT approves the 30% milestone submittal. Upon a motion made by Director Rickel, and seconded by Director Durham, the Board voted unanimously to approve Gauge Engineering Task Order for Memorial Drive Phase 2 for design services to 30% in the amount of \$1,304,200.00, as presented.

b. Project update from The Goodman Corporation.

Mr. Bean reported The Goodman Corporation status reports are included in the Board materials for review. He reported the W-140 grant is moving forward with the EPA. He reported H-GAC indicates a call for projects in 2-3 months which relates to the Memorial Drive Phase 2 project. No action from the Board was required.

c. Project update from SWA.

SWA's status report is included in the Board materials for review. No action from the Board was required.

ADJOURNMENT.

There being no further business to come before the Board, Chair Givens adjourned the meeting at 8:48 a.m.

Secretary

MEMORIAL CITY REDEVELOPMENT AUTHORITY TIRZ No. 17,
HOUSTON, TEXAS

AGENDA MEMORANDUM

TO: Memorial City Redevelopment Authority TIRZ No. 17 Board of Directors

FROM: Executive Director

SUBJECT: Agenda Item Materials

4. Receive financial and bookkeeper's report, including approval of payment of invoices, review of investments, and project cash flow reports; and ratify payment of January invoices.

Memorial City Redevelopment Authority / TIRZ No. 17

Cash Management Report

January 31, 2023

ETI BOOKKEEPING SERVICES
17111 ROLLING CREEK DRIVE SUITE 108
HOUSTON TX 77090
TELEPHONE 281 444 3384 FAX 281 440 8304

Fiscal Year End: June 30, 2023

Summary

<u>Current Activity</u>	<u>General Operating Fund</u>	<u>Capital Projects Fund</u>	<u>Debt Service Fund</u>	<u>Total</u>
Beginning Balance	19,163,043.90	1,770.52	833,496.99	19,998,311.41
Revenue	68,895.17	6.40	2,540.71	71,442.28
Expenditures	87,330.47	0.00	800,037.50	887,367.97
Ending Balance	19,144,608.60	1,776.92	36,000.20	19,182,385.72

NOTES:

Debt Service Payments due in Fiscal Year End 2023:

Date	Series	Principal	Interest	Total
9/1/2022	2016R	2,975,000.00	195,511.25	3,170,511.25
9/1/2022	2019	2,685,000.00	707,500.00	3,392,500.00
3/1/2023	2016R		159,662.50	159,662.50
3/1/2023	2019		640,375.00	640,375.00
			Total FYE 2022	7,363,048.75

January 31, 2023

General Operating Fund

BEGINNING BALANCE: **19,163,043.90**

REVENUE:

Checking Interest - Wells Fargo	34.23
Texpool Interest	68,821.10
Wells Fargo/TexSTAR (Surplus Funds) Interest	39.84
Voided Check(s)	0.00

Total Revenue: **68,895.17**

DISBURSEMENTS:

Checks Presented At Last Meeting	0.00
Checks Written at/after Last Meeting	87,121.07
Bank Fee	209.40

Total Expenditures **87,330.47**

Ending Balance: **19,144,608.60**

Location of Assets:

Institution	Investment Number	Interest Rate	
Wells Fargo Checking	*5490	0.6400	18,578.02
TexPool	*0001	4.2443	19,114,956.33
Wells Fargo/TexSTAR	TexSTAR Surplus Funds	4.2515	11,074.25
		Total	19,144,608.60

Memorial City Redevelopment Authority
Checks Presented
February 28, 2023

Num	Name	Description	Amount
3401	Equi-Tax, Inc	Tax Assessor/ Collector	-400.00
3402	ETI Bookkeeping Services	Bookkeeping Fee	-1,270.98
3403	Gauge Engineering, LLC	Engineering Consultant Fee	-5,715.00
3404	Hawes Hill & Associates	Professional Consultant	-10,000.00
3405	The Goodman Corporation Inc	Consultant Fee	-7,752.95
3406	Gauge Engineering, LLC	Engineering - Capital Projects	-21,777.17
3407	Reytec Construction Resources, Inc.	Channel Improvements - Capital Projects	-10,791.00
3408	SWA Group	Memorial Dr - Capital Projects	-6,472.63
3409	The Goodman Corporation Inc	Consultant Fee - Capital Projects	-3,932.90
Total			-68,112.63

Capital Projects Fund

BEGINNING BALANCE		1,770.52
REVENUE		
TexPool Interest	6.40	
Voided Check(s)	0.00	
 Total Revenue		 6.40
EXPENDITURES		
Checks Presented at Last Meeting	0.00	
Transfer to GOF	0.00	
 Total Expenditures		 0.00
 ENDING BALANCE		 1,776.92

Location of Assets:

Institution	Investment Number	Interest Rate	Current Balance
TexPool	*0005	4.2443	1,776.92
		Total	1,776.92

Debt Service Fund

BEGINNING BALANCE		833,496.99
REVENUE		
TexPool DSF Interest	11.98	
Wells Fargo/TexSTAR (2008 DSF) Interest	2,528.69	
Wells Fargo/TexSTAR (2008 Pled Rev) Interest	0.04	
 Total Revenue		 2,540.71
EXPENDITURES		
Due to GOF	0.00	
Debt Service Interest Payment	800,037.50	
Debt Service Principal Payment	0.00	
Paying Agent Fee	0.00	
 Total Expenditures		 800,037.50
 ENDING BALANCE		 36,000.20

Location of Assets:

Institution	Investment Number	Interest Rate	Current Balance
Wells Fargo *4601	TexSTAR 2008 DSF	4.2515	32,649.96
Wells Fargo *4600	TexSTAR 2008 Pledged Rev	4.2515	14.49
TexPool	*0004	4.2443	3,335.75
		Total	36,000.20

Memorial City Redevelopment Authority
Investment Report
January 31, 2023

SCHEDULE OF INVESTMENTS

Investment Pools

Fund	Location Of Assets	Interest Rate	Beginning Balance			Interest Earned	Deposits or (Withdrawals)	Ending Balance		
			Market	N.A.V.	Book			Market	N.A.V.	Book
GOF	TexPool	4.2443	19,115,781.31	0.99972	19,121,135.23	68,821.10	(75,000.00)	19,110,177.59	0.99975	19,114,956.33
DSF	TexPool	4.2443	3,322.84	0.99972	3,323.77	11.98	0.00	3,334.92	0.99975	3,335.75
GOF	Wells Fargo/ TexStar	4.2515	11,032.81	0.999855	11,034.41	39.84	0.00	11,073.20	0.999905	11,074.25
DSF	Wells Fargo/ TexStar DSF	4.2515	830,038.40	0.999855	830,158.77	2,528.69	(800,037.50)	32,646.86	0.999905	32,649.96
DSF	Wells Fargo/ TexStar PI Rev	4.2515	14.45	0.999855	14.45	0.04	0.00	14.49	0.999905	14.49
CPF	TexPool CPF	4.2443	21,524.68	0.99972	21,530.71	6.40	(19,760.19)	1,776.48	0.99975	1,776.92

Demand Accounts

Fund	Location Of Assets	Interest Rate	Purchase Date	Beginning Balance	Interest Earned	Deposits or (Withdrawals)	Ending Balance
GOF	Wells Fargo	0.64	6/8/2015	30,874.26	34.23	(12,330.47)	18,578.02

Collateral Pledged In Addition to FDIC

Depository Institution	Total Funds On Deposit	Custodial Institution	Securities Pledged	Collateral Description	Par Value	Market Value
Wells Fargo	18,578.02	BNYM	14,684,250	BNYM	1,438,345	1,487,898

Certification:

The District's investments are in compliance with the investment strategy as expressed in the District's Investment Policy and the Public Funds Investment Act. I hereby certify that pursuant to the Senate Bill 253 and in connection with the preparation of this investment report, I have reviewed the divestment lists prepared and maintained by the Texas Comptroller of Public Accounts, and the District does not own direct or indirect holdings in any companies identified on such lists.

Bookkeeper

Investment Officer

Investment Officer	Date Assumed Office	Training Completed
Kenneth Byrd	8/6/2015	10/15/2022

Memorial City Redevelopment Authority
Profit & Loss Budget vs. Actual
January 2023

	January			Year to Date (7 Months)			Annual
	Actual	Budget	Variance	Actual	Budget	Variance	Budget
Income							
1000 · Income							
6001 · City Tax Revenue	0	0	0	16,467,776	17,334,501	-866,725	17,334,501
8223 · Interest Income	71,437	625	70,812	369,735	4,375	365,360	7,500
Total 1000 · Income	71,437	625	70,812	16,837,511	17,338,876	-501,365	17,342,001
6-4350 · Grants	0	143,677	-143,677	0	1,005,738	-1,005,738	1,724,123
Total Income	71,437	144,302	-72,865	16,837,511	18,344,614	-1,507,103	19,066,124
Expense							
3335 · Management Consulting Services							
6320 · Legal	1,815	4,167	-2,352	11,949	29,167	-17,218	50,000
6322 · Eng Consultant/General Prof.Svc	13,468	5,000	8,468	34,288	35,000	-712	60,000
6337 · Construction Audit	0	0	0	12,000	5,000	7,000	5,000
6343 · Other	0	0	0	30	0	30	0
Total 3335 · Management Consulting Services	15,283	9,167	6,116	58,267	69,167	-10,900	115,000
5650 · Transfers							
6420 · COH Administration Fee	0	0	0	0	866,725	-866,725	866,725
6430 · Municipal Services	0	0	0	2,104,297	2,256,619	-152,322	2,256,619
Total 5650 · Transfers	0	0	0	2,104,297	3,123,344	-1,019,047	3,123,344
5706 · Debt Service							
5707 · Principal	0	0	0	5,660,000	5,660,000	0	5,660,000
5708 · Interest	800,038	851,525	-51,487	1,703,049	1,703,049	0	1,703,049
Total 5706 · Debt Service	800,038	851,525	-51,487	7,363,049	7,363,049	0	7,363,049
6300 · Administration & Overhead							
6321 · Auditor	0	0	0	6,500	17,365	-10,865	23,865
6333 · Bookkeeping/Accounting	1,093	1,388	-295	7,425	9,713	-2,288	16,650
6340 · Administration Salaries/Benefit	10,000	10,000	0	70,000	70,000	0	120,000
6344 · Bond Svcs/Trustee/FA	131	2,917	-2,786	26,062	20,417	5,645	35,000
6353 · Insurance	0	0	0	1,378	1,530	-152	1,530
6359 · Bank Fees	209	0	209	814	0	814	0
6300 · Administration & Overhead - Other	0	0	0	1,600	0	1,600	0
Total 6300 · Administration & Overhead	11,433	14,305	-2,872	113,779	119,025	-5,246	197,045
7000 · Capital Expenditure							
1725 · Parks & Green Space Improv.	0	10,417	-10,417	0	72,917	-72,917	125,000
1734 · W140 Channel Improvements	16,187	8,573	7,614	41,269	60,008	-18,739	102,870
1735A · Detention Basin A	0	320,833	-320,833	0	2,245,833	-2,245,833	3,850,000
1737 · MetroNational - Detention/Roads	0	0	0	5,335,542	5,335,542	0	5,335,542
1738A · Memorial Dr Drain & Mobility 1	14,659	14,255	404	83,014	99,788	-16,774	171,065
1738B · Memorial Dr Drain & Mobility 2	2,368	56,667	-54,299	6,508	396,667	-390,159	680,000
1741 · W140 Detention Basin Extensions	15,156	18,666	-3,710	241,025	132,063	108,962	226,394
1799 · Concrete Panel Replace Program	0	5,000	-5,000	0	35,000	-35,000	60,000
Total 7000 · Capital Expenditure	48,370	434,611	-386,241	5,707,358	8,377,818	-2,670,460	10,550,871
Total Expense	875,124	1,309,608	-434,484	15,346,750	19,052,403	-3,705,653	21,349,309
Net Income	-803,687	-1,165,306	361,619	1,490,761	-707,789	2,198,550	-2,283,185

Equi-Tax Inc.

Suite 200
17111 Rolling Creek Drive
Houston Texas 77090
281-444-4866

3401
Invoice

DATE	INVOICE #
2/1/2023	59726

BILL TO
TIRZ No. 17 - Memorial City RDA c/o ETI Bookkeeping Services Suite 108 17111 Rolling Creek Drive Houston TX 77090

DESCRIPTION	AMOUNT
Monthly Consultant Services fee per Contract Based on 438 items on the tax roll as of January 2023, at \$0.30 per item	400.00
Invoice emailed to: Jennifer Landreville at jl@equitaxinc.com Valerie Pena at bkp2@etiaccounting.com Scott Bean at sbean@haweshill.com Linda Clayton at lclayton@haweshill.com	

Total	\$400.00
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Code No. 6333
2-17-2023

3402

EPI Bookkeeping Services

PO BOX 73109
Houston, TX 77273

Invoice

Date	Invoice#
2/1/2023	9680

Bill To
TIRZ 17 Redevelopment Authority P.O. Box 73109 Houston, Texas 77273

Description	Qty	Rate	Amount
Bookkeeping		1,092.73	1,092.73
Couriers		178.25	178.25

	Total	\$1,270.98
	Payments/Credits	\$0.00
	Balance Due	\$1,270.98



Code No. 6333
2-17-2023

3403



Gauge Engineering
11750 Katy Freeway, Suite 400
Houston, TX 77079

Memorial City Redevelopment Authority/TIRZ 17
9600 Long Point Rd, Suite 200
Houston, TX 77055

Invoice number 2230
Date 02/17/2023

Project 1157 TIRZ 17 - On-call Engineering

Professional Services Provided Through February 17, 2023

Invoice Summary

Description	Contract Amount	Prior Billed	Total Billed	Remaining	Current Billed
1157 ON-CALL ENGINEERING	25,000.00	19,247.40	24,962.40	37.60	5,715.00
Total	25,000.00	19,247.40	24,962.40	37.60	5,715.00

Professional Fees

	Hours	Rate	Billed Amount
Principal			
Derek A. St. John	8.00	225.00	1,800.00
Hydrologist - Senior			
Kelly H. Hay	21.75	180.00	3,915.00
Professional Fees subtotal	29.75		5,715.00
Invoice total			5,715.00

Aging Summary

Invoice Number	Invoice Date	Outstanding	Current	Over 30	Over 60	Over 90	Over 120
2230	02/17/2023	5,715.00	5,715.00				
	Total	5,715.00	5,715.00	0.00	0.00	0.00	0.00

I certify the above to be true and correct

Muhammad Ali, PE

Please note new mailing address
Please make checks payable to:
Gauge Engineering, LLC
11750 Katy Freeway, Suite 400
Houston, TX 77079



Code No. 6322
2-17-2023

3404



PO BOX 22167
Houston, TX 77227-2167

INVOICE

BILL TO
Memorial City Redevelopment Authority/TIRZ #17
PO Box 22167
Houston, TX 77227
United States

INVOICE 1518
DATE 02/01/2023

DESCRIPTION	AMOUNT
Professional Consulting and Administration Fee: January 2023	10,000.00
<hr/>	
BALANCE DUE	\$10,000.00



Code No, 6340
2-17-2023

3405

The Goodman Corporation
3200 Travis Street, Ste. 200
Houston, TX 77006

Invoice

Bill To
TIRZ 17 Memorial City Redevelopment Autho c/o Hawes Hill & Associates LLP P.O. Box 22167 Houston, TX 77227-2167

Date	Invoice #
1/31/2023	1-2023-26

Terms	Project
	MCT114

Item	Description	Rate	Prior %	Current %	Amount
Contract Services	Task 1 – Monitor and Present Funding Opportunities	21,000.00	75%	8.33%	1,750.00
Contract Services	Task 2 – Pursuit of Funding	105,500.00	0%	5.69%	6,002.95

Please send payment to:
The Goodman Corporation
911 W. Anderson Lane, Ste. 200
Austin, TX 78757

Total	\$7,752.95
Balance Due	\$7,752.95

Phone #	Fax #
713-951-7951	713-951-7957



Code No. 6322
2-17-2023

3406

Gauge Engineering
11750 Katy Freeway, Suite 400
Houston, TX 77079



Memorial City Redevelopment Authority/TIRZ 17
9600 Long Point Rd, Suite 200
Houston, TX 77055

Invoice number 2231
Date 02/17/2023

Project 1155 W140 EXPANSION - DESIGN

Professional Services Provided Through February 17, 2023

Description	Contract Amount	Percent Complete	Prior Billed	Total Billed	Remaining	Current Billed
General/Rdwy/TCP/Signing Plans	118,985.00	66.50	78,710.59	79,125.03	39,859.97	414.44
Drainage Plans	96,395.00	72.00	69,404.40	69,404.40	26,990.60	0.00
PM/Coordination/Misc	42,780.00	78.50	33,017.40	33,582.30	9,197.70	564.90
QA/QC	13,455.00	50.50	6,794.78	6,794.78	6,660.22	0.00
Bid Phase	8,600.00	0.00	0.00	0.00	8,600.00	0.00
Topo Survey-Kuo	27,731.00	92.07	25,531.00	25,531.00	2,200.00	0.00
Environmental-Geotest	5,491.20	90.00	4,942.08	4,942.08	549.12	0.00
Geotechnical-Geotest	20,249.90	90.00	18,224.91	18,224.91	2,024.99	0.00
Pump Station Design - LJA	198,457.60	70.84	140,596.41	140,596.41	57,861.19	0.00
Structural-SSH	16,500.00	0.00	0.00	0.00	16,500.00	0.00
Urban Forestry-CN Khoel	3,850.00	0.00	0.00	0.00	3,850.00	0.00
Expenses/HBJ/Civcast/Misc	4,150.00	0.00	0.00	0.00	4,150.00	0.00
Geotechnical - Aviles	27,025.90	89.55	13,613.49	24,201.76	2,824.14	10,588.27
Total	583,670.60	68.94	390,835.06	402,402.67	181,267.93	11,567.61

Invoice total **11,567.61**

Aging Summary

Invoice Number	Invoice Date	Outstanding	Current	Over 30	Over 60	Over 90	Over 120
2231	02/17/2023	11,567.61	11,567.61				
	Total	11,567.61	11,567.61	0.00	0.00	0.00	0.00

I certify the above to be true and correct

Muhammad Ali, PE

Please note new mailing address
Please make checks payable to:
Gauge Engineering, LLC
11750 Katy Freeway, Suite 400
Houston, TX 77079



Code No. 1741
2-17-2023

3406



Gauge Engineering
11750 Katy Freeway, Suite 400
Houston, TX 77079

Memorial City Redevelopment Authority/TIRZ 17
9600 Long Point Rd, Suite 200
Houston, TX 77055

Invoice number 2233
Date 02/17/2023

Project 1070 MEMORIAL DRIVE -
CONSTRUCTION PHASE SERVICES

Professional Services Provided Through February 17, 2023

Description	Contract Amount	Percent Complete	Prior Billed	Total Billed	Remaining	Current Billed
Construction Phase Services	231,870.00	100.00	231,870.00	231,870.00	0.00	0.00
Expenses	2,000.00	61.53	1,230.54	1,230.54	769.46	0.00
Traffic Signal CPS	15,279.00	90.00	12,223.20	13,751.10	1,527.90	1,527.90
Structural Eng CPS	10,000.00	60.73	6,072.50	6,072.50	3,927.50	0.00
Supplemental CPS Services	66,500.00	79.00	45,876.40	52,535.00	13,965.00	6,658.60
Total	325,649.00	93.80	297,272.64	305,459.14	20,189.86	8,186.50

Invoice total **8,186.50**

Aging Summary

Invoice Number	Invoice Date	Outstanding	Current	Over 30	Over 60	Over 90	Over 120
2233	02/17/2023	8,186.50	8,186.50				
	Total	8,186.50	8,186.50	0.00	0.00	0.00	0.00

I certify the above to be true and correct

Muhammad Ali, PE

Please note new mailing address
Please make checks payable to:
Gauge Engineering, LLC
11750 Katy Freeway, Suite 400
Houston, TX 77079



Code No. 1738A
2-17-2023

3406

Gauge Engineering
11750 Katy Freeway, Suite 400
Houston, TX 77079



Memorial City Redevelopment Authority/TIRZ 17
9600 Long Point Rd, Suite 200
Houston, TX 77055

Invoice number 2232
Date 02/17/2023

Project 1212 MEMORIAL DRIVE - PHASE II -
DESIGN

Professional Services Provided Through February 17, 2023

Description	Contract Amount	Percent Complete	Prior Billed	Total Billed	Remaining	Current Billed
Feasibility Studies - FC 102 (110)	64,820.50	0.00	0.00	0.00	64,820.50	0.00
Socia/Econ/Enviorn Studies - FC 120 (120)	61,342.86	0.00	0.00	0.00	61,342.86	0.00
Right of Way Data - FC 130 (130)	49,074.52	0.00	0.00	0.00	49,074.52	0.00
Project Mgmt & Admin - FC 145 (145, 164)	134,870.98	1.50	0.00	2,023.06	132,847.92	2,023.06
Topographic Survey - FC 150	90,179.50	0.00	0.00	0.00	90,179.50	0.00
Roadway Design - FC 160 (161)	295,536.06	0.00	0.00	0.00	295,536.06	0.00
Drainage Design - FC 160 (161)	249,732.50	0.00	0.00	0.00	249,732.50	0.00
Signig, Pavement, Markings & Signalization - FC 160 (162)	89,565.24	0.00	0.00	0.00	89,565.24	0.00
Miscellaneous (Roadway) - FC 160 (163)	269,077.84	0.00	0.00	0.00	269,077.84	0.00
Total	1,304,200.00	0.16	0.00	2,023.06	1,302,176.94	2,023.06

Invoice total **2,023.06**

Aging Summary

Invoice Number	Invoice Date	Outstanding	Current	Over 30	Over 60	Over 90	Over 120
2232	02/17/2023	2,023.06	2,023.06				
Total		2,023.06	2,023.06	0.00	0.00	0.00	0.00

I certify the above to be true and correct

Muhammad Ali, PE

Please note new mailing address
Please make checks payable to:
Gauge Engineering, LLC
11750 Katy Freeway, Suite 400
Houston, TX 77079



Code No. 1738B
2-17-2023

3407



INVOICE

Construction Resources, Inc.

Reytec Construction Resources, Inc.
1901 Hollister St
Houston, TX 77080
Phone: (713) 957-4003
Fax: (713) 681-0077

INVOICE
2499

SOLD TO Memorial City Redevelopment Au
c/o Hawes, Hill, & Associates
9610 Long Point Ste 150
Houston, TX 77055-4259

SHIP TO Briar Branch Maintenance

ACCOUNT NO	PO NUMBER	SHIP VIA	DATE SHIPPED	TERMS	INVOICE DATE	PAGE
2234				Net 30	2/13/2023	1

February Tree Watering Service

ITEM NO	QUANTITY	DESCRIPTION	UNIT PRICE	EXTENDED
	1	February Tree Watering Maintenance	5,395.50	5,395.50

TOTAL AMOUNT **5,395.50**



Code No. 1734
2-17-2023

3407



INVOICE

Construction Resources, Inc.

Reytec Construction Resources, Inc.
1901 Hollister St.
Houston, TX 77080
Phone: (713) 957-4003
Fax: (713) 681-0077

INVOICE
2406

SOLD TO Memorial City Redevelopment Au
c/o Hawes, Hill, & Associates
9610 Long Point Ste 150
Houston, TX 77055-4259

SHIP TO Briar Branch Maintenance

ACCOUNT NO	PO NUMBER	SHIP VIA	DATE SHIPPED	TERMS	INVOICE DATE	PAGE
2234				Net 30	11/7/2022	1

November Tree Watering Maintenance

ITEM NO	QUANTITY	DESCRIPTION	UNIT PRICE	EXTENDED
	1	November Tree Watering Maintenance	5,395.50	5,395.50

TOTAL AMOUNT 5,395.50



Code No. 1734
2-17-2023

3408

swa

WORK ORDER # 20

To: Memorial City Redevelopment
Authority/Houston TIRZ 17
Attn: Scott Bean
c/o Hawes Hill and Associates LLP
PO Box 22167
Houston, TX 77227-2167

Date: February 9, 2023
Invoice No: 193640
For Period: January
Project No: RHTT002
Project Manager: James Vick

Project Memorial Drive Construction

WORK PERFORMED:
Construction Phase Services.

Professional Services from January 1, 2023 to January 31, 2023

Professional Personnel

	Hours	Rate	Amount
Principal Vick, James	25.00	245.00	6,125.00
Associate Oliver, Robert	2.00	123.50	247.00

Total Fee Due This Invoice 6,372.00

Reimbursable Expenses

Misc Travel			
James Vick	JV 12/8,22,28, 1/13		100.63
Total Reimbursables		1.0 times	100.63

Total Due this Invoice: \$6,472.63

Authorized Fee:	\$ 93,450.00
Previously Billed:	\$ 73,831.04
Billed to Date	\$ 80,303.67
Remainder Fee:	\$ 13,146.33

Remit to:
SWA Group
P.O. Box 5904
Sausalito, CA 94966

Please refer to our Invoice number and Project number when making payment.
A discount of 1% on current charges allowed if paid in full in thirty days.
A service charge will be assessed on all past due accounts.



Code No. 1738A
2-17-2023

3409

The Goodman Corporation
3200 Travis Street, Ste. 200
Houston, TX 77006

Invoice

Bill To
TIRZ 17 Memorial City Redevelopment Autho c/o Hawes Hill & Associates LLP P.O. Box 22167 Houston, TX 77227-2167

Date	Invoice #
1/31/2023	1-2023-24

Terms	Project
	MCT112

Item	Description	Rate	Prior %	Current %	Amount
Contract Services	Task 1 – Memorial Drive Phase 2 Project Funding Pursuit (MCT)	34,500.00	40%	1.00%	345.00

Please send payment to:
The Goodman Corporation
911 W. Anderson Lane, Ste. 200
Austin, TX 78757

Total	\$345.00
Balance Due	\$345.00

Phone #	Fax #
713-951-7951	713-951-7957



Code No. 1738B
2-17-2023

3409

The Goodman Corporation
 3200 Travis Street, Ste. 200
 Houston, TX 77006

Invoice

Bill To
TIRZ 17 Memorial City Redevelopment Autho c/o Hawes Hill & Associates LLP P.O. Box 22167 Houston, TX 77227-2167

Date	Invoice #
1/31/2023	1-2023-25

Terms	Project
	MCT113

Item	Description	Rate	Prior %	Current %	Amount
Contract Services	Task 1 – Grant Initiation and Execution	19,436.00	75%	5.00%	971.80
Contract Services	Task 2 – National Environmental Policy Act	28,506.00	90%	0.00%	0.00
Contract Services	Task 3 – Design and Bid Phase Compliance	26,161.00	0%	10.00%	2,616.10
Contract Services	Task 4 – Construction Phase Compliance	39,057.00	0%	0.00%	0.00
Contract Services	Task 5 – Lifecycle Reporting and Disbursement Assistance	43,221.00	0%	0.00%	0.00
	W140 Detention Basin				

Please send payment to:
 The Goodman Corporation
 911 W. Anderson Lane, Ste. 200
 Austin, TX 78757

Total	\$3,587.90
Balance Due	\$3,587.90

Phone #	Fax #
713-951-7951	713-951-7957



Code No 1741
 2-17-2023

MEMORIAL CITY REDEVELOPMENT AUTHORITY TIRZ No. 17,
HOUSTON, TEXAS

AGENDA MEMORANDUM

TO: Memorial City Redevelopment Authority TIRZ No. 17 Board of Directors
FROM: Executive Director
SUBJECT: Agenda Item Materials

5. Receive update from City of Houston regarding Detention Basin A project.

MEMORIAL CITY REDEVELOPMENT AUTHORITY TIRZ No. 17,
HOUSTON, TEXAS

AGENDA MEMORANDUM

TO: Memorial City Redevelopment Authority TIRZ No. 17 Board of Directors
FROM: Executive Director
SUBJECT: Agenda Item Materials

6. CIP Committee update and recommendations:

- a. Receive update from Gauge Engineering, LLC.
 - i. Consider Amended Task Order, Memorial Drive Phase 2, correcting clerical error,
 - ii. Consider Task Order, W140 Basin Deepening, for geotechnical survey and professional engineering services.
- b. Receive update from The Goodman Corporation.
- c. Receive update from SWA.
 - i. Consider Task Order No. 21, Memorial Drive Phase II, landscape design services.



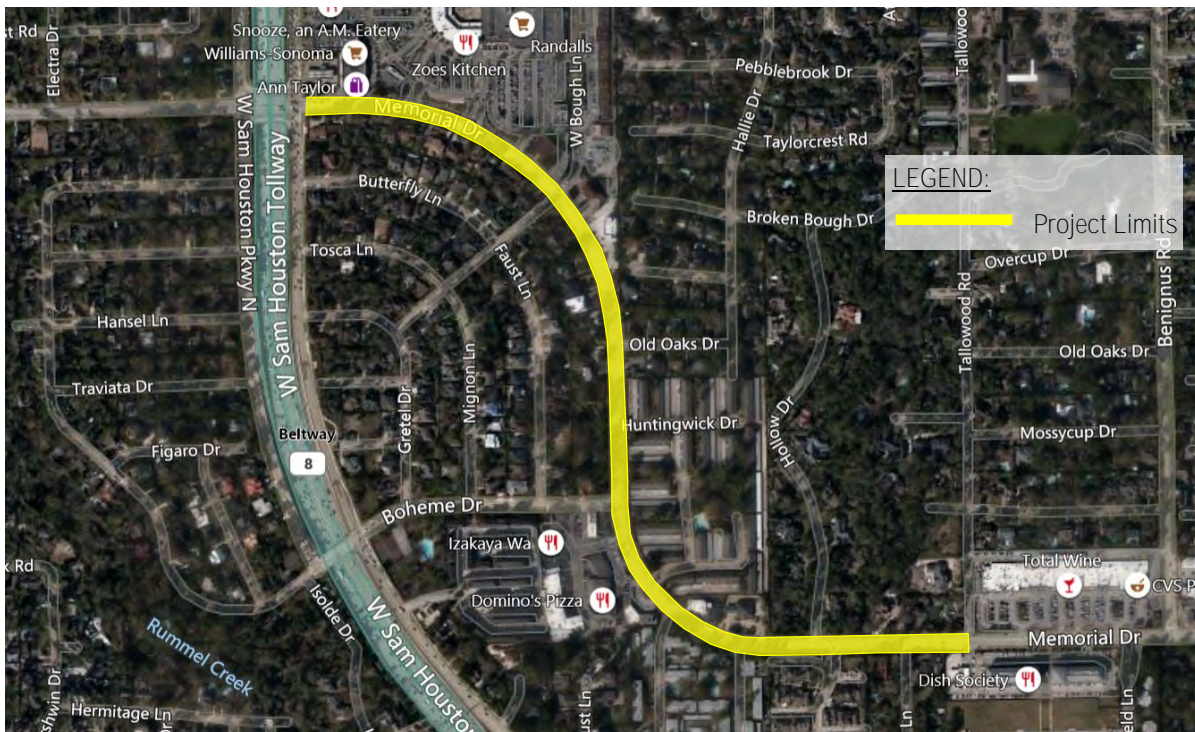
PROGRESS REPORT— FEBRUARY 2023

Memorial Drive Mobility and Drainage Improvements

WBS No. N-T17000-031B-7 , CSJ: 0912-72-391

PROJECT LOCATION

The Memorial Drive improvement project is approximately 4,960 feet long, from East of Beltway 8 to East of Tallowood Road This project is located in the City of Houston within the TIRZ 17 limits.



PROJECT DESCRIPTION:

Memorial City Redevelopment Authority (MCRA)/Tax Increment Reinvestment Zone (TIRZ) 17 on behalf of the City of Houston, and in cooperation with TxDOT is sponsoring the proposed Memorial Drive project. Memorial Drive will be reconstructed from East of Beltway 8 to East of Tallowood Drive in the City of Houston, Harris County.

Memorial Drive is a major thoroughfare that carries 17,500 vehicles per day and one of the critical capital improvement projects to be undertaken by TIRZ 17. The project proposes to improve drainage issues, mobility, access management, traffic operations, and safety within the project limits. The proposed improvements include the following:

- Improving mobility and safety by reconstructing the roadway to two 12-foot wide travel lanes in each direction with a raised median in the center of the road
- Encourage a pedestrian friendly environment by installing 8-foot wide ADA-compliant sidewalks along both sides of the road
- Upgrading subsurface public utilities
- Improve traffic operations by upgrading existing traffic signals to meet current standards
- Improve drainage by replacing the existing ditches with an upgraded storm sewer system that consists of installing varying sized reinforced concrete boxes and pipes that go up to 10-FT x 10-FT
- Improve Quality of life by installing extensive hardscape and softscape landscaping items



Cont. PROGRESS REPORT— FEBRUARY 2022

Memorial Drive Mobility and Drainage Improvements

WBS No. N-T17000-031B-7 , CSJ: 0912-72-391

CONSTRUCTION COST/TIME

- Construction Cost: \$20.5 Million
- Contract time: 25 Months
- Notice to Proceed date: August 20, 2020

CONTACT INFORMATION

Construction Management/Inspection
TxDOT—Houston District



Construction Phase Services
Gauge Engineering, LLC



Contractor
SER Construction Partners



PROJECT STATUS

- Construction Progress: Almost 100% substantially complete
- Sidewalk work is completed
- Left turn lanes work is completed
- Pavement Markings work is completed
- Irrigation system installation is almost completed
- Landscaping work and planting is almost completed
- Signal work is completed
- Top soil installation for medians is completed
- Fire Hydrant relocation work is completed

CURRENT TRAFFIC CONTROL CONFIGURATION

- All lanes are open to traffic - Single lane closure when required to perform minor landscaping work

PROGRESS PHOTOS



Irrigation System



Planting/Sodding



Sodding



Pavement Marking / Striping

TASK ORDER



December 1, 2022

Ms. Ann Givens, Chair of the Board
Memorial City Redevelopment Authority / TIRZ 17
9600 Long Point Road, Suite 200
Houston, TX 77055

Re: Proposal for Plans, Specifications and Estimates – Memorial Drive Mobility & Drainage Improvements – (T-1738B) from Tallowood Road to City of Houston/City of Bunker Hill Village limits.

Dear Ms. Givens,

Gauge Engineering, LLC (Gauge) is pleased to submit this proposal for providing Plans, Specifications and Estimates (PS&E) for the drainage and mobility improvements along Memorial Drive from Tallowood Road to City of Houston/City of Bunker Hill Village limits. The project is identified in the current City approved TIRZ 17 five-year Capital Improvement Plan. A Design Concept Report was previously completed. TIRZ 17's objective is to pursue federal grants for this project; therefore, the plans will be completed in accordance with TxDOT standards and requirements. The milestone submittals that will be made are 30%, 60%, 90%, 95% and Final phase. The initial authorization is to advance the plans to 30% level only.

\$1,337,562.86

We propose to perform this work for a Lump Sum amount of ~~\$1,304,200~~ (6.21% of construction cost). A detailed breakdown of the scope items and fee can be found under Exhibits "A" and "B" respectively. Please feel free to contact me at (713) 254-5946 if you have any questions or need additional information.

Sincerely,

Muhammad Ali, P.E.
Principal

Accepted for
Memorial City Redevelopment Authority/TIRZ 17

Signature Date 12-6-2022

Ann T. Givens, CHAIR

Print

Clerical Error on pages 36.

Accepted for Memorial City Redevelopment Authority/TIRZ 17

Signature Date

Print

Accepted for City of Houston

Accepted for
City of Houston

Signature Date 12/24/22

Print

Signature Date

Print

- Attachments:
- Exhibit A – Scope of Services
 - Exhibit B – Level-of-Effort
 - Exhibit C – Junction Box Design – Aurora Technical Services
 - Exhibit D – Geotech – Aviles Corp
 - Exhibit E – Urban Forestry – CN Koehl
 - Exhibit F – Environmental – Cypress Environmental
 - Exhibit G – Topo Survey - Kuo & Associates
 - Exhibit H – Subsurface Utility Engineering – Midtown Engineers
 - Exhibit I - Traffic Signal Design – TEI Planning + Design

Prime Provider: Gauge Engineering, LLC Project: Memorial Drive Phase II WBS No.: N-T17000-0020-7		SUBTOTALS	Prime Provider GAUGE ENGINEERING, LLC (Prime, PM, Utilities, Roadway, Drainage)	Sub-Provider AURORA TECHNICAL SERVICES (Structural Engineer)	Sub-Provider AVILES ENGINEERING CORP (Geotech)	Sub-Provider KUIO & ASSOCIATES, INC. (Survey)	Sub-Provider CYPRESS ENVIRONMENTAL CONSULTING (Environmental)	Sub-Provider CN KOEHL (Urban Forestry)	Sub-Provider MIDTOWN ENGINEERS (SUE)	Sub-Provider TEI Planning +Design (Traffic Signal)	Sub-Provider AIMS (CCTV)
FC 110	Total Labor Cost	\$54,230.50	\$43,233.50		\$10,997.00						
	Other Direct Expenses	\$2,164.00			\$2,164.00						
	Subcontracts	\$8,426.00			\$8,426.00						
FC 120	Total Labor Cost	\$53,246.88	\$36,406.88				\$17,840.00				
	Other Direct Expenses	\$8,096.00					\$8,096.00				
FC 130	Total Labor Cost	\$49,074.52	\$49,074.52								
	Other Direct Expenses	\$0.00									
FC 164	Total Labor Cost	\$134,870.98	\$134,870.98								
	Other Direct Expenses	\$0.00									
FC 150	Total Labor Cost	\$57,784.50				\$48,326.00			\$2,546.00		\$6,912.50
	Other Direct Expenses	\$11,895.00				\$1,895.00			\$10,000.00		
	Optional Additional Services	\$20,500.00				\$20,500.00					
FC 160	Total Labor Cost	\$289,915.16	\$289,915.16								
	Other Direct Expenses	\$5,620.90	\$5,620.90								
FC 161	Total Labor Cost	\$249,732.50	\$238,732.50	\$11,000.00							
	Other Direct Expenses	\$0.00									
FC 162	Total Labor Cost	\$89,565.24	\$17,475.24							\$72,090.00	
	Other Direct Expenses	\$0.00									
FC 163	Total Labor Cost	\$269,077.84	\$261,347.84					\$7,730.00			
	Other Direct Expenses	\$0.00									
FC 170	Total Labor Cost	\$0.00	\$33,362.86	missed from p.43 of 35)							
	Other Direct Expenses	\$0.00									
FC 309 Construction Phase Services	Direct Labor Cost	\$0.00									
	Fixed Fee/Profit	\$0.00									
	Other Direct Expense	\$0.00									
Grand Totals		\$1,304,200.00 \$1,337,562.86	\$1,075,677.60 \$1,109,040.36	\$11,000.00	\$21,587.00	\$70,721.00	\$25,936.00	\$7,730.00	\$12,546.00	\$72,090.00	\$6,912.50

Prime Provider: Gauge Engineering, LLC Project: Memorial Drive Phase II WBS No.: N-T17000-0020-7		SUBTOTALS	Prime Provider GAUGE ENGINEERING, LLC (Prime, PM, Utilities, Roadway, Drainage)	Sub-Provider AURORA TECHNICAL SERVICES (Structural Engineer)	Sub-Provider AVILES ENGINEERING CORP (Geotech)	Sub-Provider KUIO & ASSOCIATES, INC. (Survey)	Sub-Provider CYPRESS ENVIRONMENTAL CONSULTING (Environmental)	Sub-Provider CN KOEHL (Urban Forestry)	Sub-Provider MIDTOWN ENGINEERS (SUE)	Sub-Provider TEI Planning +Design (Traffic Signal)	Sub-Provider AIMS (CCTV)
FC 110	Total Labor Cost	\$54,230.50	\$43,233.50		\$10,997.00						
	Other Direct Expenses	\$2,164.00			\$2,164.00						
	Subcontracts	\$8,426.00			\$8,426.00						
FC 120	Total Labor Cost	\$53,246.88	\$36,406.88				\$17,840.00				
	Other Direct Expenses	\$8,096.00					\$8,096.00				
FC 130	Total Labor Cost	\$49,074.52	\$49,074.52								
	Other Direct Expenses	\$0.00									
FC 164	Total Labor Cost	\$134,870.98	\$134,870.98								
	Other Direct Expenses	\$0.00									
FC 150	Total Labor Cost	\$57,784.50				\$48,326.00			\$2,546.00		\$6,912.50
	Other Direct Expenses	\$11,895.00				\$1,895.00			\$10,000.00		
	Optional Additional Services	\$20,500.00				\$20,500.00					
FC 160	Total Labor Cost	\$289,915.16	\$289,915.16								
	Other Direct Expenses	\$5,620.90	\$5,620.90								
FC 161	Total Labor Cost	\$249,732.50	\$238,732.50	\$11,000.00							
	Other Direct Expenses	\$0.00									
FC 162	Total Labor Cost	\$89,565.24	\$17,475.24							\$72,090.00	
	Other Direct Expenses	\$0.00									
FC 163	Total Labor Cost	\$269,077.84	\$261,347.84					\$7,730.00			
	Other Direct Expenses	\$0.00									
FC 170	Total Labor Cost	\$0.00	\$33,362.86	missed from p.43 of 35)							
	Other Direct Expenses	\$0.00									
FC 309 Construction Phase Services	Direct Labor Cost	\$0.00									
	Fixed Fee/Profit	\$0.00									
	Other Direct Expense	\$0.00									
Grand Totals		\$1,304,200.00 \$1,337,562.86	\$1,075,677.60 \$1,109,040.36	\$11,000.00	\$21,587.00	\$70,721.00	\$25,936.00	\$7,730.00	\$12,546.00	\$72,090.00	\$6,912.50

TASK DESCRIPTION	PROJECT MANAGER	SENIOR PROJECT ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEERING TECH	ADMIN/ CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
FEASIBILITY STUDIES - FC 102(110)										
ROUTE & DESIGN STUDIES										
DATA COLLECTION, RECORDS RESERACH & FIELD RECONNAISSANCE	2	12		16	24	16		70	N/A	N/A
REVIEW TOPOGRAPHIC SURVEY	1	6		6	8	16		37		
ROADWAY AND HYDRAULIC DESIGN CRITERIA	1	6		8				15	N/A	N/A
PRELIMINARY COST ESTIMATE	2	6		16				24	N/A	N/A
DESIGN SUMMARY REPORT (DSR) PREPARATION	2	4		16	24			46	N/A	N/A
DESIGN CONCEPT CONFERENCE	4	8		10	16			38	N/A	N/A
REVIEW GEOTECHNICAL REPORT	1	4		8				13	N/A	N/A
FLOOD PLAIN INFORMATION & STUDIES	2	8		12	16			38	N/A	N/A
DESIGN EXCEPTIONS, IF APPLICABLE	2	6		12	18			38	N/A	N/A
HOURS SUB-TOTALS	17	60	0	104	106	32	0	319		
CONTRACT RATE PER HOUR	\$233.74	\$194.48	\$141.99	\$129.74	\$97.24	\$118.46	\$61.00			
TOTAL LABOR COSTS	\$3,973.58	\$11,668.80	\$0.00	\$13,492.96	\$10,307.44	\$3,790.72	\$0.00	\$43,233.50		
% DISTRIBUTION OF STAFFING	5.3%	18.8%	0.0%	32.6%	41.2%	10.0%	0.0%			
SUBTOTAL - FC 110								\$43,233.50		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR PROJECT ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEERING TECH	ADMIN/ CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
SOCIAL/ECON/ENVIRON STUDIES - FC 120(120)										
ENVIRONMENTAL STUDIES & PUBLIC INVOLVEMENT										
INFORMAL MEETINGS WITH PUBLIC & STAKEHOLDERS								0	N/A	N/A
Provide technical assistance for informal 8 meeting(s)	8	16		8	8			40	N/A	N/A
Prepare exhibits for informal meeting(s)		4		4	8	12		28	N/A	N/A
Prepare minutes for informal meeting(s)	4	2		4	8			18	N/A	N/A
Environmental Permits Issues and Commitment (EPIC) Sheets	1	2		4	12	16		35	N/A	N/A
REVIEW OF ENVIRONMENTAL STUDY	2	8		10				20	N/A	N/A
PUBLIC MEETING SUPPORT	8	16		32	60			116	N/A	N/A
HOURS SUB-TOTALS	23	48	0	62	96	28	0	257		
CONTRACT RATE PER HOUR	\$233.74	\$194.48	\$141.99	\$129.74	\$97.24	\$118.46	\$61.00			
TOTAL LABOR COSTS	\$5,376.02	\$9,335.04	\$0.00	\$8,043.88	\$9,335.04	\$3,316.88	\$0.00	\$35,406.86		
% DISTRIBUTION OF STAFFING	8.95%	18.68%	0.00%	24.12%	37.35%	10.89%	0.00%			
SUBTOTAL - FC 120								\$35,406.86		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR PROJECT ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEERING TECH	ADMIN/CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
RIGHT OF WAY DATA - FC 130(130)										
RIGHT OF WAY DATA										
RECORDS RESEARCH, INCLUDING UTILITY OWNERS AND CONTACT INFORMATION (QL D & C)				6	8		4	18	N/A	N/A
REVIEW AS-BUILT INFORMATION PROVIDED BY UTILITY OWNERS	2	4		12	6			24	N/A	N/A
PREPARE AND SUBMIT UTILITY DRAWINGS WITH GATHERED INFORMATION	2	4		8	12	16		42	N/A	N/A
COORDINATE, COMMUNICATE & CONDUCT MEETINGS FOR ADJUSTMENT COORDINATION	8	8		12		16		44	N/A	N/A
SCHEDULE AND ATTEND MILESTONE MEETINGS AND PREPARE MEETING MINUTES	6	12		16	24			58	N/A	N/A
PRIVATE UTILITY COORDINATION - MEET CITY REQUIREMENTS	6	8		16				30	N/A	N/A
PRIVATE UTILITY COORDINATION - UTILITY OWNERS	4	6		18				28	N/A	N/A
CREATE UTILITY INVENTORY AND CONFLICT MATRIX	2	4		8	12			26	N/A	N/A
ASSIST WITH UTILITY CONFLICT ANALYSIS AND RESOLUTION	2	4		16				22	N/A	N/A
MONTHLY CITY UTILITY MEETINGS FROM 60% TO BID	2	4		12	12			30	N/A	N/A
MAINTAIN UTILITY CONFLICT MATRIX				12	16			30	N/A	N/A
HOURS SUB-TOTALS	34	54	0	196	92	32	4	352	0	
CONTRACT RATE PER HOUR	\$233.74	\$194.48	\$141.99	\$129.74	\$97.24	\$118.46	\$61.00			
TOTAL LABOR COSTS	\$7,947.16	\$10,501.92	\$0.00	\$17,644.64	\$8,946.08	\$3,790.72	\$244.00	\$49,074.52		
% DISTRIBUTION OF STAFFING	9.86%	15.34%	0.00%	38.64%	26.14%	9.09%	1.14%			
SUBTOTAL - FC 130								\$49,074.52		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR PROJECT ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEERING TECH	ADMIN/CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
PROJECT MANAGEMENT & ADMINISTRATION - FC 148(145, 164)										
PROJECT COORDINATION /MANAGEMENT										
Project Management and Administration									N/A	N/A
Project Management and Coordination	24	40		40	12	16		132		
Monthly Progress Reports	8	24		24				56		
Meetings with State	24	60		16	24	24		148		
Project Schedule	4	16						20		
Correspondence	16	24		16				56		
Document Phone Calls	6	24						30		
Project Management, Coordination & Review of Submittals with Subconsultants										
Structural - Aurora	4	8						12		
Geotechnical - Aviles	4	12						16		
Urban Forester - CN Koehl	2	8		8	16			32		
Environmental - Cypress Env	4	12						16		
Survey - Kuo	2	8		18	26			54		
SUE - Midtown	2	8						10		
Traffic - TEI	6	12		24	18			60		
CCTV - AIMS		2		6	8			16		
QUALITY ASSURANCE/QUALITY CONTROL	16	24		32	40	80		172	N/A	N/A
PROJECT SCHEDULE	1	2		12				15	N/A	N/A
HOURS SUB-TOTALS	123	282	0	196	144	100	0	845		
CONTRACT RATE PER HOUR	\$233.74	\$194.48	\$141.99	\$129.74	\$97.24	\$118.46	\$61.00			
TOTAL LABOR COSTS	\$28,750.02	\$54,843.36	\$0.00	\$25,429.04	\$14,002.56	\$11,846.00	\$0.00	\$134,870.98		
% DISTRIBUTION OF STAFFING	34.94%	80.11%	0.00%	55.88%	40.91%	28.41%	0.00%			
SUBTOTAL - FC 164								\$134,870.98		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR PROJECT ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEERING TECH	ADMIN/CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
ROADWAY DESIGN - FC 180(181)										
ROADWAY DESIGN CONTROLS										
ROADWAY DESIGN (30%, 60%, 90%, 95% & FINAL):										
Develop preliminary geometric project layout	2	6		12	16	24		60	1	60
Develop OpenRoads Memorial Dr Corridor Model (3D Model)	6	8		60	80	160		314	1	314
Open Roads Horizontal Alignment Design:								0	1	0
Memorial Dr		1		2	4	8		15	1	15
Litchfield Ln - Intersection/Grading Layout (H 1" = 40')		1		2	4	6		13	1	13
Benignus Rd - Intersection/Grading Layout (H 1" = 40')		1		2	4	6		13	1	13
Paul Revere Dr - Intersection/Grading Layout (H 1" = 40')		1		2	4	6		13	1	13
Tealwood Dr - Intersection/Grading Layout (H 1" = 40')		1		1	2	4		8	1	8
Frostwood Dr - Intersection/Grading Layout (H 1" = 40')		1		1	2	4		8	1	8
Bearegard Dr - Intersection/Grading Layout (H 1" = 40')		1		1	2	4		8	1	8
Open Roads Vertical Alignment (Profile) Design:								0	1	0
Memorial Dr	4	12		16	40	80		152	1	152
Litchfield Ln	1	2		4	6	12		25	1	25
Benignus Rd	1	2		4	8	12		25	1	25
Paul Revere Dr	1	2		4	6	12		25	1	25
Tealwood Dr	1	2		4	10	8		25	1	25
Frostwood Dr	1	2		4	6	8		21	1	21
Bearegard Dr	1	2		4	6	8		21	1	21
Plan Preparation										
TITLE SHEET		1		2	4	12		19	1	19
INDEX OF SHEETS		1		2	12	18		33	1	33
PROJECT LAYOUT SHEETS		1		2	12	18		33	2	17
SURVEY CONTROL SHEET INDEX		1		2	4	8		15	2	8
HORIZONTAL AND VERTICAL CONTROL SHEET		1		2	4	12		19	2	10
EXISTING TYPICAL SECTIONS	1	2		4	8	18		33	2	17
PROPOSED TYPICAL SECTIONS	1	4		8	12	32		57	2	29
GENERAL NOTES		2		4	8	4		18	1	18
PRIVATE UTILITY NOTES		1		2	6	3		12	1	12
CENTERPOINT CONDUIT SPECIFICATIONS		1		2	12	20		35	9	4
CENTERPOINT EMBEDDED STREET LIGHT STANDARD		1		2	8	4		15	1	15
DEMOLITION PLAN	2	8		16	32	24		82	5	16
HORIZONTAL CURVE DATA	1	2		8	12	4		27	1	27
VERTICAL CURVE DATA	1	2		8	12	4		27	1	27
ROADWAY PLAN & PROFILE (SCALE:H 1"=40',V 1"=4')	8	40		80	120	180		408	12	34
HORIZONTAL GEOMETRY LAYOUT	1	8		16	24	40		89	4	22
INTERSECTION/GRADING LAYOUT	2	16		24	80	120		242	8	30
DRIVEWAY TABULATION	1	2		4	18	16		41	1	41
MISCELLANEOUS ROADWAY DETAILS		4		8	16	24		52	2	26
METRO DETAILS		1		4	8	4		17	1	17
BORING DATA LOG SHEETS		1		2	4	16		23	2	12
EARTHWORK CROSS SECTIONS (Every 50-FT)	2	12		16	18	60		108	10	11
EARTHWORK QUANTITIES	1	6		12	16	18		53	10	5
ROADWAY STANDARDS		1		8	16	12		37	10	4
STORM WATER POLLUTION PREVENTION PLAN (SW3P):										
EPIC SHEET	1	1			8	2		12	1	12
STORM WATER POLLUTION PREVENTION PLAN	2	4		16	40	60		122	5	24
STORM WATER POLLUTION PREVENTION PLAN STANDARDS		1		4	8	4		17	3	6
STORM WATER POLLUTION PREVENTION PLAN SUMMARIES								0	N/A	N/A
HOURS SUB-TOTALS	42	170	0	361	720	1099	0	2392		
CONTRACT RATE PER HOUR	\$233.74	\$194.48	\$141.99	\$129.74	\$97.24	\$118.46	\$61.00			
TOTAL LABOR COSTS	\$9,817.08	\$33,081.60	\$0.00	\$46,835.14	\$70,012.80	\$130,187.54	\$0.00	\$289,915.16		
% DISTRIBUTION OF STAFFING	1.76%	7.11%	0.00%	15.09%	30.10%	45.94%	0.00%			
SUBTOTAL - FC 180								\$289,915.16		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR PROJECT ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEERING TECH	ADMIN/ CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
DRAINAGE DESIGN - FC 160(161)										
IMPACT ANALYSIS										
DATA COLLECTION - DRAINAGE										
COLLECT AND REVIEW AVAILABLE APPLICABLE DATA		1		4	8			13		
COLLECT AVAILABLE FLOOD INSURANCE INFORMATION		1		1	4			6		
REVIEW PREVIOUS REPORTS FROM HCFCD AND CITY	2	4		4				10		
MEET WITH LOCAL GOVERNMENT OFFICIALS TO OBTAIN HISTORICAL FLOOD RECORDS	2	4						6		
HYDROLOGIC STUDIES - CROSSINGS										
DELINEATE AND UPDATE EXISTING DRAINAGE AREAS	2	4		16	32			54		
DETERMINE EXISTING HYDROLOGIC PARAMETERS		2		8	16			26		
CALCULATE EXISTING DISCHARGES		1		2	6			9		
DELINEATE PROPOSED DRAINAGE AREAS	2	4		16	32			54		
DETERMINE PROPOSED HYDROLOGIC PARAMETERS		2		8	16			26		
CALCULATED PROPOSED DISCHARGES		1		2	6			9		
DEVELOP HYDROGRAPHS		2		4	8			14		
COMPLEX HYDRAULIC DESIGN AND IMPACT ANALYSIS										
CUT/FILL VOLUMES - GEOPAK AND HAND CALCS		2	4	8	16			30		
PRELIMINARY TARGET MITIGATION VOLUMES		1	2		8			11		
DEVELOP OFFSITE FLOWS FROM 2D MODEL	1	16	4					21		
DEVELOP EXISTING CONDITIONS SWMM MODEL	1	4	16	36	40			97		
DEVELOP PROPOSED CONDITIONS SWMM MODEL	1	2	10	24	30			67		
CONDUCT 1% AEP SHEET FLOW ANALYSIS	1	16	16	4	4			41		
ROADWAY AND WSEL PROFILE PLOTS AND WORKSHOP	4	8	12		16	16		56		
MITIGATION ANALYSIS	2	4	24	16	8			54		
REGIONAL SOLUTION TRUNKLINE OVERSIZING ANALYSIS	1	4	24	16	8			53		
REGIONAL SOLUTION LOCAL COST SHARE EVALUATION		2	4	8	8			22		
STORM DRAINS										
EXISTING STORM SEWER EVALUATION - GEOPAK	1	4	16	40				61		
PROPOSED STORM SEWER ANALYSIS - GEOPAK	1	4	16	40				61		
TEMPORARY DRAINAGE										
DETERMINE TEMPORARY DRAINAGE NEEDS FOR DESIGN PLANS	2	6	10	20				38		
DRAINAGE DESIGN PLANS										
DRAINAGE AREA MAPS - OVERALL AND INTERNAL, EXISTING AND PROPOSED	4	8	24	80		72		188	8	24
2-YEAR STORM SEWER CALCULATIONS		2	4	8		4		18	3	6
100-YEAR STORM SEWER CALCULATIONS		2	4	8		4		18	3	6
DRAINAGE PLAN & PROFILE	4	12	32	48		60		156	6	26
STORM SEWER LATERALS	2	6	16	40		32		96	3	32
JUNCTION BOX PLAN, SECTIONS, AND SCHEDULE	2	8	40	16		48		114	3	38
MISCELLANEOUS DRAINAGE DETAILS	1	4	12	20		32		69	2	35
DRAINAGE STANDARDS		2	6	12		12		32	10	3
DRAINAGE IMPACT ANALYSIS REPORT										
DRAFT DRAINAGE REPORT	8	24	32	60		40		164		
FINAL DRAINAGE REPORT	4	12	16	30		20		82		
HOURS SUB-TOTALS										
	48	178	344	599	266	340	0	1,775		
CONTRACT RATE PER HR (INCLUDE AVG HOURLY RATE TIME OVERHEAD AND FF)										
	\$233.74	\$194.48	\$141.99	\$129.74	\$97.24	\$118.48	\$61.00			
TOTAL LABOR COSTS										
	\$11,219.52	\$34,811.92	\$48,844.56	\$77,714.26	\$25,865.84	\$40,276.40	\$0.00	\$238,732.50		
% DISTRIBUTION OF STAFFING										
	2.70%	10.08%	19.37%	33.73%	14.98%	19.14%	0.00%			
SUBTOTAL - FC 161										
								\$238,732.50		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR PROJECT ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEERING TECH	ADMIN/ CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
SIGNING, PAVEMENT MARKINGS & SIGNALIZATION - FC 160(162)										
SIGNING, PVMT, MARKING, & SIGNAL										
SIGNING AND PAVEMENT MARKING LAYOUTS (4 SHEETS)	2	8		16	32	40		98	4	25
SIGNING SUMMARIES (LARGE AND SMALL)		1		2	12	8		23	2	12
SIGNING, PAVEMENT MARKING, ETC. QUANTITIES		1		2	16	8		27	N/A	N/A
HOURS SUB-TOTALS	2	10	0	20	60	56	0	148		
CONTRACT RATE PER HOUR	\$233.74	\$194.48	\$141.99	\$129.74	\$97.24	\$118.46	\$61.00			
TOTAL LABOR COSTS	\$467.48	\$1,944.80	\$0.00	\$2,594.80	\$5,834.40	\$6,633.76	\$0.00	\$17,475.24		
% DISTRIBUTION OF STAFFING	1.35%	6.76%	0.00%	13.51%	40.54%	37.84%	0.00%			
SUBTOTAL - FC 162								\$17,475.24		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR PROJECT ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEERING TECH	ADMIN/ CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
MISCELLANEOUS (ROADWAY) - FC 160(163)										
UTILITY ENGINEERING										
EXISTING UTILITIES PLAN & PROFILE	2	4		8	24	40		78	6	13
WATER LINE AND SANITARY SEWER PLAN & PROFILE	8	24		40	80	120		272	12	23
WATER LINE AND SANITARY SEWER CROSSINGS	2	4		12	24	40		82	2	41
WATER LINE & SANITARY SEWER DETAILS		1		4	12	20		37	6	6
TRAFFIC CONTROL PLAN, DETOURS & SEQUENCE OF CONSTRUCTION:										
SEQUENCE OF CONSTRUCTION AND TRAFFIC CONTROL NARRATIVE	2	4		8	12	20		46	3	15
TRAFFIC CONTROL PLANS	8	16		24	160	240		448	20	22
INTERSECTION DETAILS	2	8		24	40	60				
ADVANCE SIGNING LAYOUTS		1		1	6	12		20	1	20
TCP STANDARDS		1		2	12	16		31	20	2
TRAFFIC CONTROL WORKSHOP	2	8		16	12	24		62		
ILLUMINATION:										
LIGHTING LAYOUTS	1	8		8	24	60		101	5	20
ILLUMINATION STANDARDS		2			8	4		14	1	14
QUANTITIES, SPECIFICATIONS & ESTIMATE:										
Compute and Tabulate Demolition Quantities (30%, 60%, 90%, 95% and 100%)	1	6		8	24	18		57	12	5
Compute and Tabulate Traffic Control Quantities (30%, 60%, 90%, 95% and 100%)	1	6		8	24	32		71	12	6
Compute and Tabulate Roadway Quantities (30%, 60%, 90%, 95% and 100%)	1	6		8	24	32		71	12	6
Compute and Tabulate Drainage Quantities (30%, 60%, 90%, 95% and 100%)	1	6		8	24	32		71	12	6
Compute and Tabulate Utilities Quantities (30%, 60%, 90%, 95% and 100%)	1	6		8	24	32		71	12	6
Compute and Tabulate Earthwork Quantities (30%, 60%, 90%, 95% and 100%)	1	4		6	18	18		47	12	4
Compute and Tabulate Pavement Markings Quantities (30%, 60%, 90%, 95% and 100%)	1	4		6	18	16		45	12	4
Compute and Tabulate Small Sign Quantities (30%, 60%, 90%, 95% and 100%)	1	4		6	18	16		45	12	4
Compute and Tabulate SWP3 Quantities (30%, 60%, 90%, 95% and 100%)	1	2		4	12	16		35	12	3
CONSTRUCTION TIME/SCHEDULE DETERMINATION	1	8						9		
CONSTRUCTION COST EST. (30, 60, 90, 95 & FINAL) WITH VARIANCE REPORT	2	6		24	40	16		88		
TXDOT CONNECT ESTIMATE & QUANTITY		4		8	16			28		
MASTER GENERAL NOTES, SPECIFICATIONS AND PROVISIONS	2	16			24			42		
TXDOT FORMS (2443, 1002, 2229, 2605, ETC.)	2	4		12	24			42		
CONSTRUCTIBILITY REVIEW	16	24		40				80		
	59	187	0	293	704	884	0	2127		
CONTRACT RATE PER HOUR	\$233.74	\$194.48	\$141.99	\$129.74	\$97.24	\$118.46	\$61.00			
TOTAL LABOR COSTS	\$13,790.68	\$36,367.76	\$0.00	\$38,013.82	\$68,456.96	\$104,718.64	\$0.00	\$261,347.84		
% DISTRIBUTION OF STAFFING	2.77%	8.79%	0.00%	13.78%	33.10%	41.58%	0.00%			
SUBTOTAL - FC 160 (163)								\$261,347.84		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR PROJECT ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEERING TECH	ADMIN/CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
DELIVERABLES FOR FC 160(160, 161, 163, AND 170)										
PS&E Package								0		
Submit 30% plans package	2	4		6	8	12		32		
Submit bridge layout review package	2	4		6	8	12		32		
Submit 60% plans package	2	4		6	8	12		32		
Submit 90% plans package	2	4		6	8	12		32		
Submit 95% plans package	2	4		6	8	12		32		
Submit Final (100%) plans package	2	4		6	8	12		32		
Electronic Copies								0		
Submit electronic copies	1	4		6	8	12		31		
Calculations								0		
Submit documentation of calculations	2	4		8	18			32		
HOURS SUB-TOTALS	15	32	0	50	74	84	0	255		
CONTRACT RATE PER HOUR	\$233.74	\$194.48	\$141.99	\$129.74	\$97.24	\$118.46	\$61.00			
TOTAL LABOR COSTS	\$3,506.10	\$6,223.36	\$0.00	\$6,487.00	\$7,195.76	\$9,950.64	\$0.00	\$33,362.86		
% DISTRIBUTION OF STAFFING	10.14%	21.62%	0.00%	33.78%	50.00%	56.76%	0.00%			
SUBTOTAL - FC 162								\$33,362.86		

DESCRIPTION							TOTAL MH BY FC	TOTAL COSTS BY FC
FEASIBILITY STUDIES - FC 110							319	\$43,233.50
SOCIAL/ECON/ENVIRON STUDIES - FC 120							257	\$35,406.86
RIGHT OF WAY DATA - FC 130							352	\$49,074.52
PROJECT MANAGEMENT & ADMINISTRATION - FC 164							845	\$134,870.98
ROADWAY DESIGN - FC 160							2,392	\$289,915.16
DRAINAGE DESIGN - FC 161							1,776	\$238,732.50
SIGNING, PAVEMENT MARKINGS & SIGNALIZATION - FC 162							148	\$17,475.24
MISCELLANEOUS (ROADWAY) - FC 163							2127	\$261,347.84
DELIVERABLES FOR FC 160(160, 161, 163, AND 170)							0	\$33,362.86
SUBTOTAL LABOR EXPENSES							8216	\$1,103,419.46
OTHER DIRECT EXPENSES	COST/UNIT							
Mileage (# of miles) (current state rate)	\$0.625	1000						\$625.00
Courier, Printing and Reproduction	\$4,995.90	1						\$4,995.90
SUBTOTAL DIRECT EXPENSES								\$5,620.90

SUMMARY	Total
TOTAL COSTS FOR PRIME ONLY	\$1,103,419.46
NON-SALARY (OTHER DIRECT EXPENSES) FOR PRIME ONLY	\$5,620.90
GRAND TOTAL	\$1,109,040.36



Exhibit B - Fee Schedule
Method of Payment: Lump Sum
Aurora Technical Services

TASK DESCRIPTION	PROJECT MANAGER	SENIOR STRUCTURAL ENGINEER	GRADUATE ENGINEER	ADMIN ASST			TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
DRAINAGE DESIGN - FC 160(161)									
STRUCTURAL DESIGN OF ONE CIP STORM JUNCTION BOX (APPRO. 24'W x 12'L x 24'H)									
60% DESIGN									
1.1 CONCEPTUAL STRUCTURAL AND ORIFICE DESIGN	0.5	1	2				0		
1.2 REVIEW GEOTECHNICAL REPORT	0.5	2					3.5		
1.3 PRELIMINARY DESIGN DRAWINGS	1	4	16				2.5		
90% DESIGN									
1.4 STRUCTURAL ANALYSIS OF JB BASED ON PNP SHEETS AND DIMENSION PROVIDED	0.5	2	4				21		
1.5 PREPARE CONSTRUCTION DRAWINGS FOR THE JUNCTION BOX AND ORIFICE DETAILS	1	2	12	2			0		
95% DESIGN									
1.6 REVISIONS DUE TO CIVIL DRAWINGS REVISIONS OR REVIEW COMMENTS	1	2	8				6.5		
FINAL DESIGN									
1.7 REVISIONS DUE TO CIVIL DRAWINGS REVISIONS OR REVIEW COMMENTS	0.5	2	4				0		
1.8 COST ESTIMATES	0.5	2	2				6.5		
							4.5		
							0		
HOURS SUB-TOTALS	5.5	17	48	2	0	0	72.5		
CONTRACT RATE PER HOUR	\$250.00	\$174.00	\$132.00	\$90.00	\$0.00	\$0.00			
TOTAL LABOR COSTS	\$1,375.00	\$2,958.00	\$6,336.00	\$180.00	\$0.00	\$0.00	\$10,849.00		
% DISTRIBUTION OF STAFFING	7.6%	23.4%	66.2%	2.8%	0.0%	0.0%			
SUBTOTAL - FC 110							\$10,849.00		

DESCRIPTION	TOTAL MH BY FC	TOTAL COSTS BY FC
ROADWAY DESIGN - FC 160 (161)	72.5	\$10,849.00

SUMMARY	
TOTAL COSTS FOR AURORA ONLY	\$11,000.00
DIRECT EXPENSES FOR AURORA ONLY	\$0.00
SUBCONTRACTS (includes labor costs and direct expenses)	\$0.00
GRAND TOTAL	\$11,000.00

Exhibit B - Fee Schedule
Method of Payment: Lump Sum
Aviles Engineering Corp

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	PROJECT GEOLOGIST	ENGINEERING TECHNICIAN	ADMIN/CLERICAL	TOTAL LABOR HRS. & COSTS
FEASIBILITY STUDIES - FC 110									
ROUTE & DESIGN STUDIES									
DATA COLLECTION & FIELD RECONNAISSANCE									
Utilities Clearance and Field Coordination for staking the soil borings						14			14
Drilling, Sampling, Logging and Traffic Control Coordination						11	8		19
Review lab test data and perform QA/QC				8					8
Input lab test data, edit and prepare final Wincore Boring Logs				16				4	20
Preliminary Fault Study						8			8
ENGINEERING ANALYSIS		2	8	8					18
GEOTECHNICAL REPORT		2	12						
HOURS SUB-TOTALS	0	4	20	32	0	33	8	4	101
CONTRACT RATE PER HOUR	\$210.00	\$170.00	\$133.00	\$105.00	\$97.00	\$105.00	\$70.00	\$68.00	
TOTAL LABOR COSTS	\$0.00	\$680.00	\$2,660.00	\$3,360.00	\$0.00	\$3,465.00	\$560.00	\$272.00	\$10,997.00
% DISTRIBUTION OF STAFFING	0.0%	4.0%	19.8%	31.7%	0.0%	32.7%	7.9%	4.0%	
SUBTOTAL - FC 110									\$10,997.00

DESCRIPTION	TOTAL MH BY FC	TOTAL COSTS BY FC
FEASIBILITY STUDIES - FC 110	101	\$10,997.00
SUBTOTAL LABOR EXPENSES	101	\$10,997.00

OTHER DIRECT EXPENSES	COST/UNIT						
Mileage (# of miles) (current state rate)	\$0.585	451.28					\$264.00
Per diem	\$36.00						\$0.00
Hotel	\$85.00						\$0.00
Traffic Control Services, Arrow Boards and Attenuator trucks - Medium Project (Includes labor, equipment and fuel)	\$950.00	2					\$1,900.00
Photocopies B/W (11" X 17")	\$0.20						\$0.00
Photocopies B/W (8 1/2" X 11")	\$0.10						\$0.00
Photocopies Color (11" X 17")	\$1.20						\$0.00
Photocopies Color (8 1/2" X 11")	0.75						\$0.00
SUBTOTAL DIRECT EXPENSES							\$2,164.00

Unit Costs					
Services To Be Provided	Test Code	Unit	Rate	Quantity	Total
Coring Crew travel to/from Job site per day	1	hour	\$180.00		\$0.00
(a) 6-in. diameter cores	N/A	each	\$102.00		\$0.00
(b) 6-in. diameter cores (greater than 6-inch thickness)	N/A	Inch	\$9.00		\$0.00
Truck Mounted Rig		each	\$400.00	1	\$400.00
Soil Drilling and Continuous Sampling (0 to 20 ft)	Tex-132-E	LF	\$24.00	80	\$1,920.00
Soil Drilling and Intermittent Sampling (20 to 50 ft)	Tex-132-E	LF	\$20.00	40	\$800.00
TxDOT TCP Test	Tex-132-E	each	\$28.00	24	\$672.00
Grouting Holes		LF	\$7.00	90	\$630.00
Pavement Patches		each	\$30.00	4	\$120.00
Install Piezometers		LF	\$18.00	30	\$540.00
Metal Piezometer Covers		each	\$68.00	1	\$68.00
Plug and Abandon Piezometers		LF	\$16.00	30	\$480.00
Drilling Standby Time		hour	\$150.00		\$0.00
Determination of Moisture Content in soils	ASTM D2216	test	\$10.00	48	\$480.00
Liquid Limit of Soils	ASTM D4318	test	\$34.00	12	\$408.00
Plastic Limit of Soils	ASTM D4318	test	\$34.00	12	\$408.00
Sieve Analysis	ASTM D 422	each	\$62.00	2	\$124.00
Percent Passing # 200 sieve	ASTM D 1140	each	\$52.00	12	\$624.00
Unconsolidated Undrained Triaxial Compressive Strength of Soil	ASTM D 2850	each	\$69.00	8	\$552.00
Unconfined Compressive Strength (Soil)	ASTM D2166	each	\$50.00	4	\$200.00
SUBTOTAL UNIT COSTS					\$8,426.00

SUMMARY	
TOTAL COSTS FOR AVILES ONLY	\$10,997.00
OTHER DIRECT EXPENSES FOR AVILES ONLY	\$2,164.00
SUBCONTRACTS (includes labor costs and direct expenses)	\$8,426.00
GRAND TOTAL	\$21,587.00

Exhibit B - Fee Schedule
Method of Payment: Lump Sum
CN Koehl

TASK DESCRIPTION	SR. URBAN FORESTER	FIELD TECH FORESTER	SR. CAD DRAFTSMAN			TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
MISCELLANEOUS (ROADWAY) - FC 160(163)								
TREE PROTECTION AND REMOVAL								
1. Data Collection/Field Evaluation	8	8				16		
2. Civil Design review and plan markup for TPP	12					12		
3. Construction Feasibility Field Meeting	7					7		
4. Civil Design review and plan markup for 90% submittal	8					8		
5. Civil Design review and plan markup for 95% submittal	8					8		
6. Civil Design review and plan markup for final submittal	6					6		
7. Drafting CAD drawn TPP drawings			10			10		
HOURS SUB-TOTALS	49	8	10	0	0	67	0	
CONTRACT RATE PER HOUR (INCLUDE AVG HOURLY RATE TIME OVERHEAD AND FF)	\$130.00	\$95.00	\$60.00	\$118.94				
TOTAL LABOR COSTS	\$6,370.00	\$760.00	\$600.00	\$0.00	\$0.00	\$7,730.00		
% DISTRIBUTION OF STAFFING	73.13%	11.94%	14.93%	0.00%	0.00%			
SUBTOTAL - FC 120						\$7,730.00		

DESCRIPTION					TOTAL MH BY FC	TOTAL COSTS BY FC
ROADWAY DESIGN - FC 160 (163)						
ROADWAY DESIGN - FC 160 (170)						
					67	\$7,730.00
SUBTOTAL LABOR EXPENSES					67	\$7,730.00
OTHER DIRECT EXPENSES	COST/UNIT					
						\$0.00
SUBTOTAL DIRECT EXPENSES						\$0.00

SUMMARY	
TOTAL COSTS FOR CN KOEHL ONLY	\$7,730.00
DIRECT EXPENSES FOR CN KOEHL ONLY	\$0.00
GRAND TOTAL	\$7,730.00

Exhibit B - Fee Schedule
Method of Payment: Lump Sum
Cypress Environmental Consulting LLC

TASK DESCRIPTION	PROJECT MANAGER	GIS Operator	Professional Geoscientist	Scientist 3	Scientist 1	Clerical	TOTAL LABOR HRS. & COSTS
SOCIA/ECON/ENVIRON STUDIES - FC 120							
ENVIRONMENTAL STUDIES & PUBLIC INVOLVEMENT							
Categorical Exclusion Documentation	8	12	24	60	56	8	0 168
HOURS SUB-TOTALS	8	12	24	60	56	8	168
CONTRACT RATE PER HOUR (INCLUDE AVG HOURLY RATE TIME OVERHEAD AND FF)	\$150.00	\$85.00	\$135.00	\$125.00	\$80.00	\$50.00	
TOTAL LABOR COSTS	\$1,200.00	\$1,020.00	\$3,240.00	\$7,500.00	\$4,480.00	\$400.00	\$17,840.00
% DISTRIBUTION OF STAFFING	4.76%	7.14%	14.29%	35.71%	33.33%	4.76%	
SUBTOTAL - FC 120							\$17,840.00

DESCRIPTION						TOTAL MH BY FC	TOTAL COSTS BY FC
FEASIBILITY STUDIES - FC 102 (110)							
SOCIAL/ECON/ENVIRON STUDIES - FC 120						168	\$17,840.00
SUBTOTAL LABOR EXPENSES						168	\$17,840.00
OTHER DIRECT EXPENSES							
	COST/UNIT						
Laboratory Analysis (A&B Labs; 1 soil TPH; 1 water TPH; 7 soil VOCs; 7 water VOCs)	\$1,280.00	1					\$1,280.00
Equipment Rental (PID meter, perstaltic pump)	\$250.00	2					\$500.00
Street Cut Permit Fee	\$205.00	2					\$410.00
Peace Officer/Traffic Control	\$400.00	2					\$800.00
Driller	\$2,553.00	2					\$5,106.00
SUBTOTAL DIRECT EXPENSES							\$8,096.00

SUMMARY	
TOTAL COSTS FOR CYPRESS ONLY	\$17,840.00
OTHER DIRECT EXPENSES FOR CYPRESS ONLY	\$8,096.00
GRAND TOTAL	\$25,936.00

Exhibit B - Fee Schedule
Method of Payment: Lump Sum
KUO and Associates

TASK DESCRIPTION	RPLS PROJECT MANAGER	RPLS SURVEY MANAGER	SENIOR SURVEY TECH	SURVEY TECH	2-PERSON FIELD CREW	3-PERSON FIELD CREW	ADMIN/ CLERICAL	TOTAL LABOR HRS. & COSTS
Topographic Survey - FC 150								
FC 150-Field Survey								
Tie to TxDOT Monument/Benchmark		4	6	4	16			30
Set Survey Controls (+/- 10)			1		4			5
Horizontal Control Survey		1	1		4			6
Vertical Control Survey		1	2		8			11
Limited brush clearing								0
Survey Cross section, topo, utility features			8		64			72
Survey bridge structures								0
Trailhead area (2) survey								
Invert culverts, inlet, manhole			4	4	8			16
Survey boreholes		1	2	4	8			15
Estimated ROW delineation		6	12		4			22
Utility coordination and research			6					6
Plan drawing			6	56				62
Profile drawing			4	36				40
DTM			16	4				20
SCM (11x17 size, scale: 1"=100')		8	16	16				40
Stake design center line		1	2	8				11
Stake estimated ROW lines		1	2	8				11
Stake wetlands within survey limit								0
QC/QA		16		8	8			32
Project Management & Coordination		4					4	8
HOURS SUB-TOTALS	0	43	88	148	124	0	4	407
CONTRACT RATE PER HR (INCLUDE AVG HRLY RATE TIME OVERHEAD & FF)	\$220.00	\$150.00	\$110.00	\$90.00	\$150.00	\$185.00	\$69.00	
TOTAL LABOR COSTS	\$0.00	\$6,450.00	\$9,680.00	\$13,320.00	\$18,600.00	\$0.00	\$276.00	\$48,326.00
% DISTRIBUTION OF STAFFING	0.00%	10.57%	21.62%	36.36%	30.47%	0.00%	0.98%	
SUBTOTAL - FC 150								\$48,326.00

DESCRIPTION						BY FC	TOTAL COSTS BY FC
TOPOGRAPHIC SURVEY - FC 150						407	\$48,326.00
SUBTOTAL LABOR EXPENSES						407	\$48,326.00
OTHER DIRECT EXPENSES	COST/UNIT	QUANTITY					TOTAL
Mileage (# of miles) (current state rate)	\$0.585	2000					\$1,170.00
Toll Charges (each)	\$1.50	200					\$300.00
Courier Services (each)	\$25.00	2					\$50.00
Boat with Motor (per day)	\$100.00	0					\$0.00
Map Records (per Sheet)	\$15.00	5					\$75.00
Deed Copies (per Sheet)	\$5.00	60					\$300.00
SUBTOTAL DIRECT EXPENSES							\$1,895.00

ADDITIONAL SERVICE (SUE SURVEYING)				
Level B SUE Surveying	hr	\$200	40	\$8,000.00
SUE Surveying (up to 19.99')	each	\$2,500.00	5.00	\$12,500.00
SUBTOTAL ADD SERVICES (Not to exceed)				\$20,500.00

SUMMARY	
TOTAL COSTS FOR KUO ONLY	\$48,326.00
DIRECT EXPENSES FOR KUO ONLY	\$1,895.00
ADDITIONAL SERVICE (SUE SURVEYING)	\$20,500.00
GRAND TOTAL	\$70,721.00

Exhibit B - Fee Schedule
Method of Payment: Lump Sum
Midtown Engineers, LLC

TASK DESCRIPTION	PROJECT MANAGER	PROJECT ENGINEER	ENGINEER IN TRAINING	ENGINEERING TECHNICIAN	TOTAL LABOR HRS. & COSTS
FUNCTION CODE 160(150) - ROADWAY DESIGN					
QLA SUE					
COORDINATION WITH GAUGE AND PROJECT TEAM	2	2	2	2	8
COORDINATION WITH CITY OF HOUSTON, PERMITTING, TRAFFIC CONTROL, ETC.	2	2	2		6
PROJECT CONTROLS, MANAGEMENT, QA/QC, SCHEDULING, ETC.	2		2		4
HOURS SUB-TOTALS	6	4	6	2	18
CONTRACT RATE PER HOUR	\$192.00	\$142.00	\$105.00	\$98.00	
TOTAL LABOR COSTS	\$1,152.00	\$568.00	\$630.00	\$196.00	\$2,546.00
% DISTRIBUTION OF STAFFING	47.1%	41.2%	11.8%	0.0%	
SUBTOTAL - PLUMBING					\$2,546.00

DESCRIPTION	TOTAL COSTS BY FC			
FEASIBILITY STUDIES - FC 102 (110)				\$0.00
SOCIAL/ECON/ENVIRON STUDIES - FC 120 (120)				\$0.00
RIGHT OF WAY DATA - FC 130 (130)				\$0.00
MANAGING CONTRACTED/DONATED PE - FC 145 (164)				\$0.00
QLA SUE - FC 150				\$2,546.00
SUBTOTAL LABOR EXPENSES				\$2,546.00
OTHER DIRECT EXPENSES	COST/UNIT			
TRAFFIC CONTROL IMPLEMENTATION	\$2,400.000	1	EACH	\$2,400.00
PAVEMENT CORING/RESTORATION	\$500.000	2	EACH	\$1,000.00
VACUUM EXCAVATION	\$400.000	10	HOUR	\$4,000.00
BACKFILL (LABOR AND MATERIALS)	\$500.00	2	EACH	\$1,000.00
SURVEY TEST HOLE LOCATIONS	\$800.00	2	EACH	\$1,600.00
SUBTOTAL DIRECT EXPENSES				\$10,000.00

SUMMARY	
TOTAL COSTS FOR MIDTOWN ENGINEERS (LUMP SUM) ONLY	\$2,546.00
DIRECT EXPENSES FOR MIDTOWN ENGINEERS ONLY	\$10,000.00
GRAND TOTAL	\$12,546.00

Exhibit B - Fee Schedule
Method of Payment: Lump Sum
TEI Planning+Design

TASK DESCRIPTION	SENIOR PRINCIPAL	PRINCIPAL	SENIOR ASSOCIATE	ASSOCIATE	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
SIGNAL DESIGN							
SIGNAL DESIGN							
Task 1: Project Management & Client Coordination	6	16			22		
Task 2: Stakeholder Engagement and Public Outreach	8	12			20		
Task 3: Metro Coordination	4	4			8		
Task 4: Intersection Design Plans	16	60	100	160	336		
Task 5: Temporary Traffic Signal	4	8	8	40	60		
					0		
HOURS SUB-TOTALS	38	100	108	200	446		
CONTRACT RATE PER HOUR	\$255.00	\$210.00	\$150.00	\$125.00			
TOTAL LABOR COSTS	\$9,690.00	\$21,000.00	\$16,200.00	\$25,200.00	\$72,090.00		
% DISTRIBUTION OF STAFFING	8.5%	22.4%	24.2%	44.8%			
SUBTOTAL					\$72,090.00		

DESCRIPTION	TOTAL COSTS BY FC			
SIGNAL DESIGN				\$72,090.00
SUBTOTAL LABOR EXPENSES				\$72,090.00
OTHER DIRECT EXPENSES	COST/UNIT			
Mileage (# of miles) (current state rate)	\$0.625			\$0.00
SUBTOTAL DIRECT EXPENSES				\$0.00

SUMMARY	
TOTAL COSTS FOR HIRSCH ENGINEERING, INC ONLY	\$72,090.00
DIRECT EXPENSES FOR HIRSCH ENGINEERING, INC ONLY	\$0.00
SUBCONTRACTS (includes labor costs and direct expenses)	
GRAND TOTAL	\$72,090.00

Project: Memorial Drive Phase II
WBS No.: N-T17000-0020-7

Exhibit B - Fee Schedule
Method of Payment: Lump Sum
AIMS

OTHER DIRECT EXPENSES	COST/UNIT				
CL to facilitate & TV 15"-21" sanitary sewer	\$2.50	1325	LF		\$3,312.50
Float to facilitate & TV 48" sanitary sewer	\$4.00	900	LF		\$3,600.00
					\$0.00
					\$0.00
					\$0.00
SUBTOTAL DIRECT EXPENSES					\$6,912.50

SUMMARY	
DIRECT EXPENSES FOR AIMS ONLY	\$6,912.50
GRAND TOTAL	\$6,912.50



February 23, 2023

Ms. Ann Givens, Chair of the Board
Memorial City Redevelopment Authority / TIRZ 17
9600 Long Point Road, Suite 200
Houston, TX 77055

Re: Proposal for Additional Engineering Services in Support of Detail Design – W140 Detention Pond Expansion

Dear Mrs. Givens,

Gauge Engineering, LLC (Gauge) is pleased to submit this proposal to supplement the Detail Design Services (Phase II) for the expansion of the existing W140 Detention Basin. The supplemental design will include the design of an impermeable wall around the perimeter of the basin. In response to an unexpectedly high-water table observed during the recent rainy period, we recommend the installation of a soil-bentonite wall or soil-cement-bentonite wall. The bentonite wall will act as a barrier for the observed fluctuating water table, eliminating multiple water table driven concerns including upheave and buckling of the clay cap due to hydrostatic pressure, and potential differential settling of adjacent structures. The following engineering services are included in this proposal:

1. Additional geotechnical services to assist with designing the impermeable wall. The additional geotechnical work will build on the previous geotechnical efforts. Three additional borings are necessary to supplement the previous borings and geotechnical work. The new borings will be 60-ft to 100-ft deep as compared to the previous borings which were 30-ft to 50-ft and will be analyzed to determine the permeability of the different soil strata. Wall design parameters will be defined based on the geotechnical field work findings and will include key design factors such as the depth of the wall (not necessarily one continuous depth), permeability design requirements, wall strength requirements, and heavy equipment load slope stability analysis. Specifications will be developed to require sampling and validation of the wall performance. The geotechnical proposal is included as Exhibit "B" in this comprehensive proposal.
2. Additional design sheets will be developed to communicate to the wall design and parameters to the contractor. Three new design sheets will be developed including 1. a plan view layout that will define the location of the wall and limitations for equipment operation, 2. a profile sheet that will define the wall depth and any permeability variations, and 3. a details and specification sheet that will define specific wall construction details such as cross sections and design specifications.
3. Additional design coordination and field visits will be performed to assist with the design of the impermeable wall. This effort will include coordination with contractors to work through constructability issues and design solutions, and City of Houston coordination.



EXHIBIT A
W140 DETENTION BASIN EXPANSION PROJECT - IMPERMEABLE WALL
PS&E - LEVEL OF EFFORT



I. BASIC DESIGN SERVICES (90%, Final)

DESCRIPTION OF WORK TASKS	PROJ MGR	SR PROF ENGINEER	GRAD ENGINEER	SR. DESIGN TECH	ADMIN ASST	TOTAL HOURS	LABOR COSTS
A. GENERAL PLAN SHEETS							
1 Impermeable Wall Plan View (1 Sheet)	1	4	10	16		31	\$3,765.00
2 Impermeable Wall Profile View (1 Sheet)	1	4	10	16		31	\$3,765.00
3 Impermeable Wall Details (1 Sheet)	1	4	10	16		31	\$3,765.00
<i>Total</i>	3	12	30	48	0	93	\$11,295.00
DESCRIPTION OF WORK TASKS	PROJ MGR	SR PROF ENGINEER	GRAD ENGINEER	SR. DESIGN TECH	ADMIN ASST	TOTAL HOURS	LABOR COSTS
I. Project Management/Specs/Agencies & Team Coordination/Quantities/Misc							
1 Additional Coordination for Impermeable Wall	4	4	4			12	\$2,040.00
2 Additional Field Visits for Impermeable Wall	2	4	6			12	\$1,830.00
3 Additional Quantities for Impermeable Wall		4	6			10	\$1,380.00
4 Additional City of Houston Coordination	6	6	4			16	\$2,820.00
5 Additional Project Manual & Specifications Specifics for Impermeable Wall	2	4	4			10	\$1,590.00
<i>Total</i>	14	22	24	0	0	60	\$9,660.00
J. QUALITY ASSURANCE/QUALITY CONTROL							
1 QA/QC	4	8				12	\$2,220.00
2 Independent Constructability Review	4					4	\$900.00
<i>Total</i>	8	8	0	0	0	16	\$3,120.00
TOTAL HOURS	25	42	54	48	0	169	
Contract Labor Rate	\$225.00	\$165.00	\$120.00	\$105.00	\$75.00		
TOTAL LABOR COSTS BASIC ENGINEERING SERVICES	\$5,625.00	\$6,930.00	\$6,480.00	\$5,040.00	\$0.00		\$24,075.00

II. SUBCONTRACTED/OTHER SERVICES

DESCRIPTION OF WORK TASKS	COST	SUB MGMT	TOTAL
1 Geotechnical Investigation - Geotest Engineering (Exhibit E)	\$63,294.00	10%	\$69,623.40
TOTAL SUBCONTRACTED ENGINEERING SERVICES			\$69,623.40

GRAND TOTAL - DESIGN & BIDDING	
I. BASIC DESIGN SERVICES (90%, Final)	\$24,075.00
II. SUBCONTRACTED/OTHER SERVICES	\$69,623.40
	\$93,698.40

Gauge Engineering
11750 Katy Freeway, Suite 400
Houston, Texas 77079

Attention: Derek St. John, P.E., CFM / Muhammad Ali, P.E. ENV SP
Principals

**Proposal for Geotechnical Review and Slurry Wall Design
W140-00-00 Storm Water Detention Basin Expansion
North of Katy Freeway, Between Blalock and Bunker Hill
Houston, Texas**

Introduction

As requested during a meeting with Mr. Derek St. John, P.E. and Mr. Muhammad Ali, P.E., Principals with Gauge Engineering (Gauge) on January 27, 2023, Cibor Geoconsultants (Cibor) is pleased to prepare this proposal to undertake a review of prior geotechnical studies performed by Geotest and Aviles, and if appropriate, provide recommendations for installation of an impervious barrier to allow deepening of the existing detention basin to its design bottom elevation. The existing stormwater basin, identified as W140-00-00 Briar Branch, is located about 700 feet north of the west-bound frontage road of I-10 Katy Freeway (Old Katy Road), and approximately 1200 feet west of Blalock Road. The basin's plan dimensions are roughly 640 feet by 500 feet. The 8- to 10-foot existing basin is planned to be deepened by about 10 feet.

Scope of Services

The proposed base scope of services consists of a field reconnaissance, review of three prior geotechnical studies performed by Geotest and Aviles along with the current plan set prepared by Gauge Engineering, field exploration, laboratory testing, and geotechnical engineering analyses and recommendations, all related to either: 1) confirmation of existing concept(s) advanced by either Geotest or Aviles, or; 2) design of an impervious barrier to allow excavation of the existing basin to its intended deeper design bottom elevation. These services are more fully described in the following sub-sections.

Field Reconnaissance. We made an initial site visit on February 15th to obtain an overview of the project, and to assess trafficability and access to the site for our drilling equipment. We intend to perform a more detailed site reconnaissance visit at the time of our field campaign. This reconnaissance will be undertaken by our Senior Engineer and Staff Geologist. We will maintain notes of our field observations and document the visit with sketches and/or photographs.

Review of Prior Studies. We propose to begin the study by reviewing three separate geotechnical reports – two prepared by Geotest dated August 19, 2011 and December 11, 2020, and a third prepared by Aviles dated January 30, 2023. We will also review the pertinent drawings from among the 191 Plan Sheets prepared by Gauge Engineering for the entire project named *W140-00-00 Briar Branch (W140-00-00) Storm Water Detention Basin Expansion and Storm Sewer Improvements*. The outcome of this review will form the basis of our further work, including field and laboratory testing as well as development of an alternative concept to allow excavation of the basin bottom to its design depth.

Field Exploration and Probing. We propose to explore the subsurface conditions by drilling five borings to depths ranging between 60 and 100 feet using either a truck-mounted (trafficability permitting) or an all-terrain vehicle (ATV)-mounted drill rig. The total footage will be 460 feet. The four, 100-foot-deep borings will be drilled along the basin perimeter. The remaining 60-foot-deep boring will be drilled in the interior of the basin.

Geotechnical soil samples will be obtained in the drilled borings continuously to 20 feet and at 5-foot intervals to 80 feet, or the completion depth of the boring, whichever is first. Below 80 feet, sampling will be performed at 10-foot intervals to completion depth.

Cohesive soil samples will be collected by hydraulically advancing a thin-walled tube in general accordance with American Society for Testing and Materials (ASTM) standard D1587. Estimates of the shear strength of encountered cohesive soils will be made using a hand-held penetrometer and/or Torvane device. Granular soil samples will be collected by performing Standard Penetration Tests (SPTs) in general accordance with ASTM D1586. N-values (i.e., blow count number per 12-inch penetration) will be recorded for SPTs in the field. All drilling and sampling will comply with the appropriate standard methods used in HCFCFCD projects.

Short-term and 24-hour depth-to-water measurements will be made in each of the open boreholes during drilling. We will also install two temporary standpipes/piezometers to depths of 30 to 40 feet. They will be used to obtain longer-term water level readings and as a means to conduct an in-situ permeability test. We will seal the open boreholes with a combination of soil cuttings and Holeplug after completion of our drilling, sampling, and water level reading activities.

Field drilling activities will be performed by a subcontracted field exploration firm and led by Cibor personnel. We will log the geotechnical soil borings and collect the soil samples for further geotechnical laboratory testing.

Laboratory Testing. Laboratory testing will be aimed primarily at: 1) characterizing the soil stratigraphy through means of classification, permeability and strength testing; and 2) determining an appropriate mix design for the soil-cement-bentonite slurry wall. An anticipated level of effort for both laboratory testing programs is included on Attachment 1. We anticipate performing the following tests on select samples obtained from the borings:

Soil Stratigraphy Characterization

- Visual Classification and Water Content
- Atterberg Limits (i.e., Liquid and Plastic Limits)
- Sieve Analysis with Hydrometer
- Percent Passing No. 200 Sieve
- Unconfined Compression
- Unconsolidated-Undrained Triaxial Compression

Slurry Mix Design

- Unconfined Compression for various cement contents
- pH
- Water Analysis for Compatibility with Cement-Bentonite
- Permeability for various cement/bentonite ratios
- Unit Density
- Viscosity
- Effects of Addition of Fly Ash on Strength and Permeability

Engineering Analysis and Recommendations. The scope of our engineering work is expected to include the following:

- Review of existing documents including three prior geotechnical engineering reports and plan set prepared by Gauge Engineering.
- Opinion regarding concepts advanced by Geotest/Aviles to allow excavation and future operation to design bottom of expanded basin.
- Description of field and laboratory testing programs undertaken by Cibor.
- Generalization of soil conditions, stratigraphy, and groundwater levels incorporating data gathered by Geotest, Aviles and Cibor.
- Recommendation for appropriate impervious barrier to allow installation and performance of expanded (i.e., deepened) basin.
- Assuming an alternative to the clay liner or driven sheet pile consisting of a slurry wall is appropriate, Cibor will provide:
 - Recommended depth of penetration of the slurry wall along the entire perimeter of the basin.
 - Determination whether a soil-bentonite or cement-bentonite slurry wall is appropriate.
 - Recommended mix design for the appropriate wall.
 - Specifications for the selected type of wall including:
 - Viscosity (marsh funnel) of the initial bentonite slurry

- Unit weight
 - Strength
 - Hydraulic Conductivity
 - Curing Time
 - Proportioning of mix (i.e., cement, fly ash, bentonite content)
- Analysis of stability of basin and channel slopes incorporating surcharge loads imposed by construction equipment for installation of the impervious barrier, and the impact of digging mixing pits for the slurry backfill along or in proximity to the toe of the interior basin.
 - Construction sequence so that the stability of the channel at the northern end of the basin is not compromised during construction.
 - Specifications related to noise and vibration.

Our conclusions and recommendations, along with supporting data and illustrations, will initially be submitted in a Draft Report. Following review by Gauge Engineering, we will submit a signed and sealed geotechnical report. We anticipate holding meetings (in-person and/or virtually) with Gauge Engineering over the course of our study. The geotechnical investigation report will meet HCFCFCD requirements as described in the latest HCFCFCD Geotechnical Guidelines.

Special Conditions and Assumptions

Several assumptions have been made in developing the scope of work and budgetary cost estimate in this proposal. They are as follows:

- Access and right-of-entry will be provided by Gauge Engineering for our personnel and field equipment.
- We will be permitted to dispose of excess drilling fluid and soil cuttings by spreading them onsite near the drilling locations.
- The soils encountered will be free of any hazardous or contaminated material.
- We will contact Texas 811 to locate any public utilities. Gauge Engineering will assist us in identifying any buried utilities near the boring locations.
- The boring locations will be free of any underground obstructions, including utility, telecommunication, and transmission lines, buried rubble/riprap, existing foundations, etc.
- Environmental assessment, evaluation, and analyses are outside the scope of our services.

Terms and Conditions

We propose to perform our services on a time-and-materials basis under a Sub-Consultant Agreement between Cibor and Gauge Engineering, which will incorporate terms and conditions similar to those included in the existing prime agreement between Gauge Engineering and their Client, TIRZ No. 17.

Our time will be billed in accordance with the current fee schedule entitled *Harris County Fee Schedule for Construction Materials Engineering Services Labor and Unit Rates Effective: January 1, 2020*. We propose a budget of \$63,294 for this study. The budget breakdown is included as Attachment 1 to this proposal. Please note that the actual units of time and/or testing will vary from those indicated in the spreadsheet.

Schedule

We can mobilize field operations within five to seven working days after receiving notice-to-proceed. Field work will take four to six working days (depending on the number of borings). Standard laboratory work should take two to three weeks; the CIU triaxial tests and the soil-cement-bentonite mix design which will require performing permeability testing, should be available within four to five weeks after drilling is done. Advance final recommendations are expected to be submitted in a memorandum report six weeks after drilling is completed. The final draft report will be presented to Gauge Engineering about eight weeks after receiving authorization to proceed with the study.

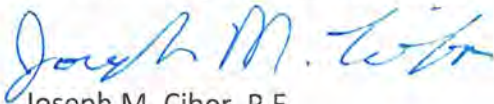
Closing

Cibor Geoconsultants appreciates the opportunity to be of service to Gauge Engineering. If you need further information or if you have any questions, please do not hesitate to call us.

Sincerely,

Cibor, Inc.

TBPE Firm Registration No. F-15616



Joseph M. Cibor, P.E.

Principal

Attachment: *Estimated Budget Breakdown – Attachments 1a & 1b*

Copies Submitted: PDF via e-mail to Derek St. James at dstjoin@gaugeengineering.com
and Muhammad Ali at mali@gaugeengineering.com

COST ESTIMATE BREAKDOWN - Slurry Wall Design

Proposal No. 0123-004

02-20-23

Code	Description	Quantity	Unit	Rate	Amount
FIELD EXPLORATION - Truck & ATV RIG - 2, 100-ft Borings & 1, 60-ft Boring					
110110	Drill Rig Mobilization	1	each	\$700.00	\$700.00
110030	Soil Boring, Continuous 3-in. (0' to 20')	60	ft	\$25.00	\$1,500.00
110010	Soil Boring, Intermittent 3-in. (20' to 60')	120	ft	\$23.00	\$2,760.00
110020	Soil Boring, Intermittent 3-in. (60' to 100')	80	ft	\$25.00	\$2,000.00
110071	Piezometer Installation (2 @ 40 ft each)	80	ft	\$24.00	\$1,920.00
110072	Piezometer Abandonment (2 @ 40 ft each)	80	ft	\$20.00	\$1,600.00
10400	Graduate Engineer/Geologist(Field Coordination)	6	hrs	\$115.00	\$690.00
10200	Senior Engineer, P.E. (Field Reconnaissance)	4	hrs	\$205.00	\$820.00
10700	Logger (Drilling)	36	hrs	\$90.00	\$3,240.00
15200	In-Situ Permeability Testing (2-Person Crew)	16	hrs	\$125.00	\$2,000.00
15000	Logging Vehicle Charge	52	hrs	\$12.00	\$624.00
Sub-total for Field Exploration					\$17,854.00
LABORATORY TESTING - 36 SAMPLES					
90100	Liquid & Plastic Limits	30	each	\$71.00	\$2,130.00
90200	Moisture Content of Soils by Mass	42	each	\$11.00	\$462.00
90600	Percentage Fines	30	each	\$55.00	\$1,650.00
90500	Sieve Analysis with Hydrometer	4	each	\$145.00	\$580.00
90900	Unconfined Compressive Strength	12	each	\$51.00	\$612.00
15200	Water Analysis	4	each	\$125.00	\$500.00
20500	Unit Density	12	each	\$43.00	\$516.00
94100	Soil-Cement-Bentonite Compressive Strength	12	each	\$81.00	\$972.00
94200	Cement Content of Soil-Bentonite-Cement Mix	4	each	\$354.00	\$2,832.00
90300	ph of Soil	6	each	\$20.00	\$120.00
91100	Unconsolidated-Undrained Triaxial Compression	18	each	\$72.00	\$1,296.00
Sub-total for Laboratory Testing					\$11,670.00
ENGINEERING ANALYSIS AND REPORT					
10100	Principal, P.E.	16	hrs	\$250.00	\$4,000.00
10200	Senior Engineer, P.E.	76	hrs	\$205.00	\$15,580.00
10400	Graduate Engineer/Geologist	96	hrs	\$115.00	\$11,040.00
11500	Engineering Assistant/CAD & Gint Operator	45	hrs	\$70.00	\$3,150.00
Sub-total for Engineering Analysis and Report					\$33,770.00
TOTAL ESTIMATED COST					\$63,294.00

ATTACHMENT 1

To: Scott Bean
From: Jim Webb, AICP, ENV SP
Project Name: TIRZ 17 Memorial City Redevelopment Authority HGAC TIP Call for Projects Funding Pursuit Assistance
Project Code: MCT112
Billing Period: Jan-23

Progress Complete

Task	Prior Percent	Current Percent
1	40.00%	41.00%

Progress Details**1 – Memorial Drive PH 2 Project Funding Pursuit**

H-GAC has initiated their Call for Projects. They are asking potential sponsors to submit initial or revised statements of interest by February 24, 2023. TGC has received this information and will complete it on behalf of the City/Memorial City Redevelopment Authority. Additionally, H-GAC for the first time adopted a formal cost increase policy which allows sponsors of funded projects to come back and ask for additional funding resources for a previously funded project.

To: Sean Scott
From: Jim Webb, AICP, ENV SP
Project Name: W-140 Detention Basin Improvements Project EPA State and Tribal Assistance Grant Compliance and MGMT Assi
Project Code: MCT113
Billing Period: Jan-23

Progress Complete

Task	Prior Percent	Current Percent
1	75.00%	80.00%
2	90.00%	90.00%
3	0.00%	10.00%
4	0.00%	0.00%
5	0.00%	0.00%

Progress Details

1 – Grant Initiation and Execution

- Begin development of internal grant funding management policies and procedures per EPA requirements.
- Pending final grant execution.

2 – NEPA

No activity this period.

3 – Design and Bid PH Compliance

- Coordination with design firm regarding scope modifications.

4 – Construction PH Compliance

No activity this period.

5 – Lifecycle Reporting and Disbursement Assistance

No activity this period.

To: Scott Bean
From: Jim Webb, AICP, ENV SP
Project Name: Ongoing Pursuit of Funding
Project Code: MCT114
Billing Period: Jan-23

Progress Complete

Task	Prior Percent	Current Percent
1	75.00%	83.33%
2	0.00%	5.69%

Progress Details

1 – Monitor and Present Funding Opportunities

The following funding opportunities were released, monitored, tracked, and synthesized in January 2023:

Environmental Justice Government-To-Government Program

Environmental Justice Government to Government program aims to support and/or create a model state, tribal, local, and territorial government activities that lead to measurable environmental or public health results in communities disproportionately burdened by environmental harms and risks. These projects will help transform disadvantaged and underserved communities into healthy, thriving communities capable of addressing the environmental and public health challenges they have historically faced and current and future challenges. Example projects may include - small-scale clean-ups, environmental treatments, pollution reductions, hazardous waste disposal and/or energy recovery projects. The Program is expected to run for three years – Oct 2023 to Sept 2026. The Program NOFO is available here and is due April 10, 2023.

Environmental Justice Collaborative Problem Solving Program

This Program will aim to assist community-based nonprofit organizations (CBOs) in their efforts to collaborate and partner with other stakeholders (e.g., local businesses and industry, local government, medical service providers, academia, etc.) to develop solutions that will significantly address environmental and/or public health issue(s) in communities disproportionately burdened by environmental harms and risks. All proposed projects should include activities designed to engage, educate, and empower communities to understand the local environmental and public health issues and to identify ways to address these issues at the local level. Examples of grant applications involving implementation activities include small-scale clean-ups, environmental treatments, pollution abatements, hazardous waste disposal and/or energy recovery projects. The program is expected to run for three years – Oct 2023 to Sept 2026. The Program NOFO is available here and is due April 10, 2023.

WaterSMART Environmental Water Resources Projects

Eligible uses include advancing drought resilience and expanding access to clean water for families, farmers, and wildlife. The investment will repair aging water delivery systems, secure dams, complete rural water projects, and protect aquatic ecosystems. The project must be part of a collaborative process to increase water resource reliability. Other related funding opportunities include WaterSMART Drought Resiliency Project Grants, WaterSMART Water, Energy Efficiency Grants, and WaterSMART Cooperative Watershed Management Program. The total project cost shall not exceed \$6M. Award funds will cover up to \$3M per project for a project duration of 3 years. Recipient cost share will vary between 25-50% of the project cost basis the merit criteria. 20-40 awards will be made through this call. The Program NOFO is available here and is due March 28, 2023.

2022 Resilient Communities Program

The Resilient Communities Program will fund the development, adoption, and implementation of modern and resilient building codes and flood damage prevention ordinances to ensure that structures built within the community can withstand future hazards. Eligible entities include cities, counties, Federally recognized Tribes, and the Council of Governments. Eligible activities include the development, adoption, and implementation of Building Codes that meet or exceed the standards outlined in the International Residential Code 2012 (IRC 2012); the development, adoption, and implementation of a Flood Damage Prevention Ordinance that meets CDBG-MIT requirements of at least 2 feet above base flood elevation; Development, adoption, and implementation of a Zoning Ordinance based upon a land use plan or comprehensive plan; Development, adoption, and implementation of forward-looking land use plans that integrate hazard mitigation plans; Development and adoption of forward-looking Comprehensive Plans that integrate hazard mitigation plans; or Public Service activities focused on education and outreach campaigns designed to alert communities and beneficiaries to opportunities to further mitigate identified risks through insurance, best practices, and other strategies. Public information activities leading to CRS credit accrual and CRS eligibility are eligible under this activity. Program details and summary can be found [here](#). Application intake will begin on June 1, 2022, and will be processed for eligibility on a first come, first served basis until June 1, 2028, or until funding is exhausted, whichever is first.

Houston-Galveston Area Council

H-GAC has initiated their Call for Projects. They are asking potential sponsors to submit initial or revised statements of interest by February 24, 2023. Additionally, H-GAC for the first time adopted a formal cost increase policy which allows sponsors of funded projects to come back and ask for additional funding resources for a previously funded project.

2 – Pursuit of Funding

- Participate in discussions related to Gessner project cost increases.
- Discuss project with TxDOT and H-GAC.
- Develop request letter and provide to Board Chair and Administrator for review and signature.

SWA Houston

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6th Floor
Houston, Texas
77002
+1.713.868.1676
www.swagroup.com

PROJECT STATUS REPORT BY SWA

SCOPE: LANDSCAPE ARCHITECTURE FOR MEMORIAL CITY REDEVELOPMENT AUTHORITY

PROJECTS: TIRZ #17 CIP

DATE: February 28, 2023

CURRENT PROJECTS STATUS

1. MEMORIAL DRIVE DRAINAGE AND MOBILITY IMPROVEMENTS - (T1731B) (SWA WO#13/#20)
 - SWA is providing construction phase services in coordination with Gauge, TXDOT and Memorial Management District, including making regular site visits and responding to Contractor’s queries. SWA is replying to RFIs with clarifications and submittals on lighting, irrigation and planting, in coordination with Gauge Engineering. No out-standing items or issues to report at this time.
2. MEMORIAL DRIVE DRAINAGE AND MOBILITY IMPROVEMENTS - (T1731B) FROM TALLOWOOD ROAD TO CITY OF BUNKER HILL VILLAGE LIMITS (PROPOSED SWA WO#21)
 - The Board has requested a proposal for a task order to prepare design and document to 30%, which is on the agenda for the February 2023 Board meeting for consideration.

END OF REPORT

SWA Houston

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WORK ORDER #21

28 February 2023

Mr. Scott Bean
Executive Director
Memorial City Redevelopment Authority
c/o Hawes Hill Associates LLP
PO Box 22167
Houston, TX 77024
713-829-5720

Subject: Professional Design Services –
CIP T-1738 B Memorial Drive Drainage and Mobility Improvements
From Tallowood Road to City of Bunker Hill Village Limits
(SWA Project RHTt301)

Dear Mr. Bean:

SWA is pleased to propose our professional services for Memorial Drive Phase II. These services are further described below for amenity design in accordance with TXDOT standards and requirements including design submittals at 30%, 60%, 90%, 95% and Final (the "Project"). This Agreement is between Memorial City Redevelopment Authority (the "Authority") and SWA in support of the referenced project located in Houston, Harris County, Texas.

I. SCOPE OF SERVICES

SWA will perform professional design services for the Project improvements:

- Streetscape concepts.
- Esplanade planting.
- Planting at the ROW.
- Irrigation.
- Pedestrian lighting.

A. Preliminary Design

1. Develop sheet layout and related details coordinate with and mobilize SWA sub-consultants.
2. Initiate application and coordinate the Adopt-An-Esplanade with Houston Parks And Recreation Department (HPARD).
3. Coordinate design scope with Authority Engineer (Gauge).
4. Prepare exhibits and participate in a community meeting.
5. Review comments and direction received from the TIRZ #17 CIP Committee and Board of Directors. Apply comments and direction to the conceptual design including scope and costs.

Deliverables

- Inputs to Final Design.
- Adopt-An-Esplanade preliminary application / coordination.
- Three (3) in-person coordination meetings: one (1) with Houston Parks And Recreation Department (HPARD), one (1) with the Authority Engineer, and one (1) with the Memorial Management District Executive Director or similar stakeholder.
- Two (2) in-person presentations, one (1) to TIRZ #17 Board of Directors and one (1) to the Memorial Management District Board or similar stakeholder for the preliminary design.
- One (1) community meeting exhibits and meeting attendance.
- Preliminary estimate of construction cost.
- Maximum of one (1) round of revisions.

B. Final Design

1. Prepare final design documents for constructing the proposed project amenities.
2. Prepare 60%, 90%, 95% and Final Design submittals.
3. Prepare the final application round for the Adopt-An-Esplanade for proposed esplanades.
4. Coordinate final design scope with Authority Engineer.
5. Prepare technical sections of specifications in Construction Specifications Institute (CSI) Master Format to reasonably conform to applicable codes and regulations of

governmental bodies having jurisdiction over the work at the time of preparation. Specifications will conform the City of Houston's requirements.

6. Authority Engineer shall be responsible for Project Approvals including TDLR and City of Houston Building Permit.
7. Authority Engineer will be responsible for Bidding and Contract Requirements and General Requirements divisions of the specifications.
8. SWA shall use its best efforts to coordinate its services with those of other consultants and to maintain a construction budget in accordance with the design development estimate of probable construction cost accepted by Client at the end of the design phase.
9. Prepare a final cost estimation at the 90% submittal. When the final estimate of probable construction cost is one hundred ten percent (110%) of the preliminary design budget estimate, or less, the final estimate will be acceptable to Client.
10. Complete Adopt-An-Esplanade procedures for approval of the four (4) esplanades based on the Authority Engineer's roadway schematic (dated 08/09/2022).

Deliverables

- 60%, 90%, and 95% design plan set of construction documents.
- Technical Specifications in CSI Master Format, which will conform to TXDOT requirements.
- Final Estimate of Project Cost at 90% design.
- Final Design plan set of construction documents.
- Adopt-An-Esplanade approval.
- One electronic copy and one hard copy of the plan set and technical specifications.
- Three (3) in-person coordination meetings: one with Houston Parks And Recreation Department (HPARD), one (1) with the Authority Engineer, and one (1) with the Memorial Management District Executive Director or similar stakeholder.
- Two (2) in-person coordination meetings with private property owners and representatives.
- Prepare a maximum of one (1) round of revisions at each submittal milestone.

C. Sub-Consultants

SWA will retain the services of an electrical engineer, structural engineer, and irrigation design consultant. Said services listed below are included in the Scope of Services and fees.

- Electrical engineer for powering the pedestrian lights.
- Structural engineer for light pole foundations required by the City of Houston.
- Irrigation consultant for the irrigation design of the landscape improvements.

D. Bidding Phase

SWA and its sub-consultants shall coordinate with the Authority Engineer and respond to questions from prospective bidders on the landscape portion of the Project, prepare addenda during the bidding period and assist Client and Client's Engineer in reviewing bids received by the Client.

II. DEVELOPMENT BUDGETS

- A. Based upon the current level of information on the project and Memorial Phase 1 costs, and our understanding of the present concept, we estimate that the probable construction cost for items under the above scope of services at \$1,559,000.
- B. In the event that this development budget is reduced or increased by more than 10% between the time of approval of the landscape concept phase and the time of award of a construction contract, cost of modification of drawings and specifications to meet the changed project budget shall be considered Additional Services.

III. DESIGN APPROVAL

The Executive Director of Memorial City Redevelopment Authority has been designated as the person responsible for design direction to SWA for this project and has the authority for design approval, subject to the final approval by the Board of Directors. In the event that the design, as approved by the Executive Director and the Board is subsequently rejected, and re-design is required, such re-design services shall be compensated as Additional Services.

IV. MEETINGS AND SITE VISITS

This proposal includes Professional Service time for up to twelve meetings for coordination with Client, agencies, consultants or Client / Client Representative, and scheduled approximately as follows:

Preliminary Design Phase	6 meetings
Final Design Phase	5 meetings

Pre-Bid 1 meeting

(Additional meetings shall be billed as Additional Services).

V. SCHEDULE

The scope of services for this task order will be complete within one hundred twenty (120) days. If this schedule is exceeded for reasons beyond SWA's control, work performed thereafter will be an additional service.

VI. EXCLUSIONS TO SCOPE OF SERVICES

Client shall provide the following information or services as required for performance of the work. SWA assumes no responsibility for the accuracy of such information or services and shall not be liable for error or omissions therein. Should SWA be required to provide services in obtaining or coordinating compilation of this information, such services shall be charged as Additional Services.

- A. Topography and boundary surveys.
- B. Legal descriptions of property.
- C. Roadway Schematics.
- D. Geotechnical and/or soils testing and engineering.
- E. Existing site engineering and utility base information.
- F. Overhead aerial photographs at controlled scale.
- G. Engineering other than that provided within the Scope of Services.
- G. Permitting services.
- H. Permit and application fees, including but not limited to Adopt-An-Esplanade and TDLR.
- I. TDLR Review and Inspection.
- J. Design of improvements on private property.
- K. Construction Phase services.

VII. FEES

Services described above shall be provided on an hourly basis with a not to exceed fee of \$196,800.00.

Reimbursable expenses shall be included in the fees stated above for local travel and copying / reproduction in the indicated quantities. SWA will provide one (1) electronic copy and one (1) mylar copy of the final documents for constructing the landscape portion of the

project. Additional printing will be provided as an additional service and billed as a reimbursable expense.

This initial authorization is for 30% level design only, in the amount of \$66,100. and provided on an hourly not to exceed basis. Work orders for additional services beyond 30% level will be submitted for Board approval.

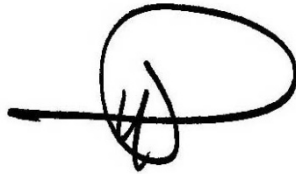
VII. TERMS

Terms and conditions of service shall be in accordance with the Service Agreement by and between the Authority and SWA dated August 27, 2013.

If this proposal meets with your approval, please sign below and return one copy for our files.

Sincerely yours,

SWA GROUP



James Vick, AIA
Principal

ACCEPTED BY:

Memorial City Redevelopment Authority

By: _____

Title: _____

Date: _____

City of Houston

By: _____

Title: _____

Date: _____

End

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MEMORIAL CITY REDEVELOPMENT AUTHORITY TIRZ No. 17,
HOUSTON, TEXAS

AGENDA MEMORANDUM

TO: Memorial City Redevelopment Authority TIRZ No. 17 Board of Directors
FROM: Executive Director
SUBJECT: Agenda Item Materials

7. Convene in Executive Session pursuant to Section 551.071, Texas Government Code, to conduct a private consultation with attorney with regard to pending or contemplated litigation.
8. Reconvene in Open Session and authorize appropriate actions regarding to private consultation with attorney with regard to pending or contemplated litigation.