RESOLUTION NO.	

A RESOLUTION AUTHORIZING THE APPROVAL OF CHANGE ORDER NO. 1 FOR CIVIC ENGINEERING AND INFORMATION TECHNOLOGIES, INC. RELATIVE TO CONTRACT NO. S-09-008-201, NORTH ST. ELMO DRAINAGE STUDY UPGRADE, FOR AN INCREASED AMOUNT OF ONE HUNDRED TWENTY-FOUR THOUSAND ONE HUNDRED THIRTY-TWO DOLLARS (\$124,132.00), FOR A REVISED CONTRACT AMOUNT NOT TO EXCEED FOUR HUNDRED THIRTY-NINE THOUSAND SIX HUNDRED THIRTY-TWO DOLLARS (\$439,632.00).

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CHATTANOOGA, it is hereby authorizing the approval of Change Order No. 1 for Civic Engineering and Information Technologies, Inc. relative to Contract No. S-09-008-201, North St. Elmo Drainage Study Upgrade, for an increased amount of \$124,132.00, for a revised contract amount not to exceed \$439,632.00.

ADOPTED:	, 2015

/mem

City of Chattanooga

Resolution/Ordinance Request Form



Date Prepared: June 18, 2015		TENDIA	
Preparer: Dennis Malone	Department:	Public Works	
Brief Description of Purpose for Pesalution/Ordinance	Res./Ord.#	Council District #	7
Brief Description of Purpose for Resolution/Ordinance:	Res./Ord. #	Council District #	7

A City Council resolution is requested to approve the Change Order No. 1, for Civic Engineering and Information Technologies, Inc., relative to Contract No. S-09-008-101, North St. Elmo Drainage Study Upgrade, for an increased amount of \$124,132.00, for a revised contract amount not to exceed \$439,632.00.

A THE WAR COLOR OF THE WAY OF THE PARTY OF T		CHARLES CONTRACTOR OF THE PROPERTY OF	
Name of Vander/Contractor/Creat at	Civic Engineering and		NI.
Name of Vendor/Contractor/Grant, etc.			NO
Total project cost	\$ 439,632.00	Funds Budgeted? (YES or NO)	Yes
Total City of Chattanooga Portion	\$439,632.00	Provide Fund	6031
City Amount Funded	\$ 439,632.00	Provide Cost Center	K80116
New City Funding Required	\$0	Proposed Funding Source if not budgeted	
City's Match Percentage	%	Grant Period (if applicable)	
List all other funding sources and amo	unt for each contribut	or.	
Amount(s)		<u>Grantor(s)</u>	
\$			
Agency Grant Number			
CFDA Number if known			
Other comments: (Include contingency amo	ount, contractor, and oth	ner information useful in preparing res	solution)
`			,,
Funds budgeted in FV45			
Funds budgeted in FY15.			
		Approved by:	
Reviewed by: FINANCE OFFICE		DESIGNATED OFF	ICIAL/ADMINISTRATOR
Please submit completed form to @budget, Ci	ty Attorney and City Finar	ice Officer	

Revised: 1/26/09

RESOLUTION NO.	26451

A RESOLUTION AUTHORIZING THE ADMINISTRATOR OF THE DEPARTMENT OF PUBLIC WORKS TO ENTER INTO AN AGREEMENT WITH CIVIC ENGINEERING AND INFORMATION TECHNOLOGIES, INC., FOR PROFESSIONAL SERVICES, RELATIVE TO CONTRACT NO. S-09-008-101, NORTH ST. ELMO DRAINAGE STUDY AND UPGRADE, IN AN AMOUNT NOT TO EXCEED THREE HUNDRED FIFTEEN THOUSAND FIVE HUNDRED DOLLARS (\$315,500.00).

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CHATTANOOGA, it is hereby authorizing the Administrator of the Department of Public Works to enter into an agreement with Civic Engineering and Information Technologies, Inc., for professional services, relative to Contract No. S-09-008-101, North St. Elmo Drainage Study and Upgrade, in an amount not to exceed \$315,500.00.

ADOPTED: September 28, 2010

/mms



CITY OF CHATTANOOGA PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

Development Resource Center 1250 Market Street, Suite 2100 Chattanooga, TN 37402 Phone: (423) 643-6033

Date

Fax: (423) 643-6027 CHANGE ORDER Contract No.: S-09-008-101 Change Order No.: Engineer: Civic Engineering and Information Technologies, Inc. 6/17/2015 Council Res. #'s: 26451 (Attach Copies) Project Name: North St. Elmo Drainage Study and Upgrade Purchase Order # Contract Days Changed: Original Contract Amount 315,500.00 Check Reason for Change Order Error/Omission Net Change by Previous C.O.s Field Condition Revised Completion Date: 315,500.00 Contract Amount Prior to this C.O. ☐ Field Dispute Settlement Total Amount of this C.O. 124,132.00 Owner Request NEW CONTRACT AMOUNT 439,632.00 ☐ Value Engineering ☑ Other: Various additions to the contract scope as outlined in CRF E2 (attached). Description / Justification (Add more pages if necessary) Revised Cost Per CRF - E2 (attached) = \$ 124,132.00 The terms and conditions of this Change Order, including the cost and time contained herein, constitute a full accord and complete satisfaction for all costs and time of performance related to the work described or referenced herein, including but not limited to, all delay and impact costs for the entire Project resulting from this Change Order. Except as amended herein, all provisions of the Contract remain in full force and effect. **APPROVALS** CONTRACTOR **ENGINEER / ARCHITECT** Signature Date CITY PROJECT MANAGER CITY ENGINEER Date Signature Signature ADMINISTRATOR OF PUBLIC WORKS CITY FINANCE OFFICER

Signature

Signature

Date

CITY OF CHATTANOOGA
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
1250 Market Street, Suite 2100
Chattanooga, TN 37402
PHONE: (423) 757-5117 | FAX: (423) 757-0586



CR# 6/17/2015 Date Issued:

	CHANGE	REQ	UE:	ST FORM	(CR	RF)				
City Contract No.	S-09-008-101									
Project Name:	North St. Elmo Draina	ae St	udv	and Upgrad	le l					
Engineer:	Civic Engineering and					oc T	nc		NAME OF TAXABLE PARTY.	
_	Civic Engineering and	111101	ma	ion recinio	logi	C3, I	IIC.		**************************************	
Contractor:										
Requested By:	City	and the	ries at	Despath series, cer-	4.35%	7-36 E 147	CONTRACTOR	SALES NO.	6-7-7-7-7-7-F-F-18-18-18-18-18-18-18-18-18-18-18-18-18-	PARTY TO STATE OF THE
Requested By: Drawing:	City		-							
Problem Desc:	Additional design fees are	raquire	d for	thic contract (-2 20	comm	andata scope o	hang	as related to	additional
FIODICIII DOSGI	contractor options for conv									
	discoveries and subsequen									
	Right-of-Way and easemer					, u	provide actual		Idii doolg	diigoo . G.acca
	,									
B.	1-41 (P-4-Ha		PER	William Strains	14 (54)	3.00	rowensiew	2000	Part Control	
Revised Scope De		- 6au A	total a	- 11						
_	ed upon revised payment pl	an for t	•	-						
Basic Service	S:		Or	iginal Cost		Add	litional Cost	Rev	vised Cost	
Basic Design Service	es:	LS	\$	158,700.00		\$	-	\$	158,700.00	
Bidding/Award Phas	se Services:	LS	\$	7,200.00		\$	-	\$	7,200.00	
Construction Admin	istration Phase Services:	LS	\$	48,000.00		\$	(48,000.00)	\$	-	
			\$	213,900.00		\$	(48,000.00)	\$	165,900.00	
Supplementa								5030)		
Hydrologic Analysis		CP	\$	22,000.00		\$	7,692.00	\$	29,692.00	
	(SWPPP, NOI, ARAP, USACE)	CP	\$	8,500.00		\$	4,656.00	\$	13,156.00	
Field Storm Drainag	Toronto Control Control	CP	\$	4,000.00		\$		\$	4,000.00	
Detailed Topograph		CP	\$	19,000.00		\$	4,460.00	\$	23,460.00	
	rings Storm Sewers	CP	\$	3,900.00		\$	4 353 00	\$	3,900.00	
Easement Documer		CP	\$	6,000.00		\$	4,252.00	\$	10,252.00	
Permit Applications		CP	\$	4,000.00		\$	1,176.00	\$	5,176.00 7,584.00	
Non-Dest Geotech I	Carrie Francisco	CP	\$	9,500.00		\$	(1,916.00)	\$	7,584.00	
Geotechnical Boring		CP CP	\$	4,700.00		\$	-	\$	4,700.00	
Additional Supplem Assessment)	ental Services (Soil	CF	\$	20,000.00		\$	-	\$	20,000.00	
Survey/Design Fo					CP	\$	6,180.00	\$	6,180.00	
Relocation - Trac	t 2									
Survey/Design S	S Main in 36th St.				СР	\$	6,500.00	\$	6,500.00	
R.O.W.							-,			
Allowance for Ad	ditional Scope				CP	\$	15,000.00	\$	15,000.00	
			\$	101,600.00		\$	48,000.00	\$	149,600.00	
Total Cost Co	ntract:		\$ 3	315,500.00		\$_	-	\$3:	15,500.00	
Contractor Acknow	ledgement:									
No Change in Cor	ntract Amount is required.			A C	hange	in Con	tract Amount is red	quired:		\$0.00
No Change in Cor	ntract Time is required.			A Cha	nge in	Contra	act Time is required	d:		0 days
	11									
Mod	11									
Archite	ect / Engineer / Inspector / RPR						Contracto	r		
										CONTRACTOR STATE OF THE STATE O
Change in Contrac	t Amount is within the Contingen	су					Proceed with	Exe	cution	
Amount authorized	under Resolution No.			/				/		
Yes No	ERICISOUR	2		Yes	No)	_//			1
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5/		chai	IE	F 9 _			146		GliBI	15
Engine	eer / Architect Project Manager	710/	()	1			City Proje	ect Mar	nager	
	/		an demonstrates					-		***************************************

Public Works Administrator

Distribution: City Engineer; Central Files



June 17, 2015

Mr. Eric Booker City of Chattanooga – Dept. of Public Works 1250 Market Street, Suite 2100 Chattanooga, Tennessee 37402-2713

RE: Proposal for Additional Services for City of Chattanooga Contract No. S-09-008 North St. Elmo Drainage System Study and Upgrade Supplemental Design Services – Supplement No. 1

Dear Mr. Booker:

Civic Engineering and Information Technologies, Inc. (Civic) is pleased to provide this proposal to the City of Chattanooga – Department of Public Works to furnish supplemental professional surveying and engineering services for the North St. Elmo Drainage System Study and Upgrade. The project began in November 2010. The additional work is related to a prolonged design schedule, plans revisions to accommodate multiple conveyance realignments, hydraulic analysis for additional options, additional surveying services and coordination with the Riverwalk Project and plans revisions to incorporate erosion control plans. The additional work is broken down by the original contract tasks as outlined below.

Supplemental Services

Task D – Hydrologic Analysis and Hydraulic Capacity Study

- 1. Additional hydraulic analysis after 50% design milestone and coordination with Contech to include the additional structural plate options for Conveyance 1
- 2. Revisions to hydraulic model due to plans revisions requested after 90% design milestone

Task E – Permit Applications (SWPPP, NOI, ARAP, USACE, TVA, etc.)

 Multiple revisions to permits applications due to plans revisions after 90% design milestone (SWPPP, ARAP, USACE/TVA, TDOT)

Task F – Field Storm Drainage Data Collection (Maximum of 90 Structures)

- None

Task G – Detailed Topographic Surveys

1. The initial proposal assumed a conveyance length 4,100 linear feet for all conveyances, however, the final conveyance length is 4,700 linear feet for an increase in length of approximately 13%

 Survey for potholing utilities at Old Wauhatchie / Church Street intersection and subsequent plans revisions based on actual utility locations (performed after 90% design milestone)

Task H - Inspection of Gillespie Springs Branch Storm Sewer to Remain

- None

Task I – Easement Document Preparation (Maximum of 15 Easements)

1. Additional easement document revisions to reflect changes as negotiated during the easement acquisition process for Tracts 2 (Linde), 6 (Mt. Vernon), and 8 (Walgreens).

Task J – Permit Applications (Railroad, TDOT)

1. Revisions to the Norfolk Southern railroad permit to reflect installation of the drainage culvert under the tracks by tunneling rather than pipe jacking.

Task K - Non-Destructive Geotechnical Investigation of Proposed Alignment

- None

Task L - Geotechnical Borings/Investigation

- None

Task M – Additional Supplemental Services As Required

- 1. Survey and design to relocate the force main that serves Tract 2 (Linde) utility relocation was not included in the original contract.
- 2. Survey and design to replace the sanitary sewer main within the 36th Street right-of-way or install additional sanitary sewer infrastructure on the Linde property as necessary.
- 3. Allowance for as-needed additional services prior to construction.

Total Estimated Fee

Supplemental Services (Not-to-Exceed): \$ 49,916

Civic appreciates this opportunity to provide our proposal for services for this project. A detailed breakdown of man-hours can be found in "Attachment A". If you have any questions or comments, please contact us.

Sincerely,

Civic Engineering and

Information Technologies, Inc.

Philip Nelson, P.E. Project Manager

North St. Elmo Drainage System Study and Upgrade Supplemental Design Services- Supplement No. 1 Attachment A

Supplemental Services (Not-to-Exceed)

Task D - Hydrologic Analysis and Hydraulic Capacity Study

tash to high original and high admic capacity clark					
	Project	Project			
	Manager	Engineer	Engineer	Admin	Totals
Conveyance 1 Additional Hydraulic Analysis (after 50% design milestone)	2	24	24	2	\$4,816.00
Revisions to Hydraulic Model due to Revisions requested after 90% design milestone (See Basic Design					
Services)	2	8	20	2	\$2,876.00
Total Design Hours	4	32	44	4	84
Billing Rate by Labor Category	\$140.00	\$100.00	\$85.00	\$48.00	
Total Estimated Fee	\$560.00	\$3,200.00	\$3,740.00	\$192.00	\$7,692.00

Task E - Permit Applications (SWPPP, NOI, ARAP, USACE, TVA, etc.)

		Project Manager	Project Engineer	Engineer	Admin	Totals
e Revisions from Plans Revisions after 90% Design Milestone		4	40	0	2	\$4,656.00
	Total Design Hours	4	40	0	2	46
	Billing Rate by Labor Category	\$140.00	\$100.00	\$85.00	\$48.00	B. 7
	Total Estimated Fee	8560 00	\$4 000 00	\$0.00	\$06 AA	CA GEG OO

Task G - Detailed Topographic Surveys

	Project	Project		Lead			
	Manager	Engineer	Engineer	Surveyor	Surveyor Survey Tech Admin	Admin	Totals
Additional Conveyance Length (4,100 If proposed vs. 4,700 If actual)	0	0	0	16	12	0	\$2,068.00
Survey for Pot-Holed Utilities at Old Wauhatchie / Church Street Intersection	0	2	0	16	16	0	\$2,488.00
Total Design Hours	0	2	0	32	28	0	62
Billing Rate by Labor Category	\$140.00	\$100.00	\$85.00	\$85.00	\$55.00	\$48.00	
Total Estimated Fee	\$0.00	\$200.00	\$0.00	\$2,720.00	\$2,720.00 \$1,540.00	\$0.00	\$4,460.00

Task I - Easement Document Preparation (Maxumum of 15 Easements)

	30000	10000		2000			
W	Manager	Engineer	Engineer	Surveyor	Surveyor Survey Tech	Admin	Totals
Multiple Easement & Exhibit Revisions	0	0	8	32	12	4	\$4,252.00
Total Design Hours	0	0	8	32	12	4	56
Billing Rate by Labor Category \$	\$140.00	\$100.00	\$85.00	\$85.00	\$55.00	\$48.00	
Total Estimated Fee	\$0.00	\$0.00	\$680.00	\$2,720.00	\$660.00	\$192.00	\$192.00 \$4,252.00

Talk J - Permit Applications (Railroad, TDOT)

		Project Manager	Project Engineer	Engineer	Lead	Lead Surveyor Survey Tech Admin	Admin	Totals
Railroad Permit Application Revisions to Reflect Installation by Tunneling		0	4	8	0	0	2	\$1,176.00
	Total Design Hours	0	4	8	0	0	2	14
Billing	Billing Rate by Labor Category	\$140.00	\$100.00	\$85.00	\$85.00	\$55.00	\$48.00	
	Total Estimated Fee	\$0.00	\$400.00	\$680.00	\$0.00	\$0.00	\$96.00	\$1,176.00

Task M - Additional Supplemental Services As Required

	Project	Project		Lead			
	Manager	Engineer	Engineer	Surveyor	Surveyor Survey Tech Admin	Admin	Totals
Survey and Design for Force Main Utility Relocation at Tract 2 (Linde)	2	32	8	16	12	0	\$6,180.00
Survey and Design for Sanitary Sewer Main in 36th Street R.O.W. or additional design on Tract 2	2	8	40	16	12	0	\$6,500.00
Allowance for Additional Scope							\$15,000.00
Total Design Hours	4	40	48	32	24	0	148
Billing Rate by Labor Category	\$140.00	\$100.00	\$85.00	\$85.00	\$55.00	\$48.00	
Total Estimated Fee	\$560.00	\$4,000.00	\$4,080.00	\$4,080.00 \$2,720.00	\$1,320.00	\$0.00	\$27,680.00

Total Supplement No. 1 \$49,916.00

CITY OF CHATTANOOGA DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION 1250 Market Street, Suite 2100 Chattanooga, TN 37402 PHONE: 1423) 757-5117 | FAX: (423) 757-0586



CR#	2	
Date Issued:	6/17/2015	

CHANGE REQUEST FORM (CRF)

City Contract No.	S-09-008-101
Project Name:	North St. Elmo Drainage Study and Upgrade
Engineer:	Civic Engineering and Information Technologies, Inc.
Contractor:	
	Control of the same of the sam
Requested By:	City
Drawing:	
Problem Desc:	Additional design fees are required for this contract to accommodate scope changes related to additional contractor options for conveyance types in order to give bid options for better pricing, address contaminated soil discoveries and subsequent environmental considerations and provide several overall design changes related to Right-of-Way and easement negotiations.

Revised Scope Description/Details

- 1. Prolonged design schedule required additional time for stopping and starting design
- 2. The initial proposal assumed a conveyance length of 4,100 linear feet for all conveyances, however, the final conveyance length is 4,700 linear feet for an increase in project scope of approximately 13%
- 3. City requested plans and specifications revisions were required after 95% design milestone to realign Conveyance 1 to accommodate future 7'X7' box culvert extension at the Walgreens Property
- 4. City requested plans revision to include an option for Contech Structural Plate (after 50% design milestone)
- 5. City requested plans and specifications revisions after 50% design milestone to realign Conveyance 2 vertically to accommodate possible future vertical realignment of Cummings Highway
- 6. City requested plans revisions based on utility pot-holes at Old Wauhatchie / Church Street intersection after 90% milestone
- 7. City requested coordination with the Riverwalk Project and plans revisions to include the proposed erosion control plan to include the Riverwalk Project
- 8. City requested coordination with TDEC to write a specification for treatment of contaminated soil Additional plans revisions to traffic control plans from TDOT (received after 95% design milestone and after original comments were addressed)
- 9. City requested that the plans and specifications be revised to reflect installation by tunneling rather than pipe jacking under Norfolk Southern Railroad for Conveyances 2 and 3.
- 10. City requested that changes be made to the structural design of the junction boxes in accordance with the following:
- a. An additional junction box was added to the plans with a 48" RCP stub to accommodate the outfall of a future drainage project along St. Elmo Avenue
- b. The junction box at the outfall of Conveyance 2 into Conveyance 1 was redesigned to accommodate maintenance access to the box culvert.
- c. The junction box at the beginning of Conveyance 1 at the Walgreens property was redesigned to accommodate the realignment of the 7'x7' box along the west property line of the Walgreens property.
- 11. City requested that the plans and specifications be modified to include a new asphalt entrance on the Linde property along with the removal of the existing fuel island.
- 12. City requested that the plans and specifications be modified to include an underground detention system on the Mt. Vernon property.
- 13. Final QA/QC of plans and specifications based on the revisions listed above

Contractor Acknowledgement:		
No Change in Contract Amount is required.	✓ A Change in Contract Amount is required:	\$124,132.00
No Change in Contract Time is required.	A Change in Contract Time is required:	Completion Date: September 25, 2015
the the		
Architect / Engineer / Inspector / RPR	Con	tractor
Change in Contract Amount is within the Contingency Amount authorized under Resolution No.	Proceed with	Execution
EBalu 6/13/15	11/4	6/18/15
Engineer / Architect Project Manager	City Proje	ect Manager

Distribution: City Engineer; Central Files



June 17, 2015

Mr. Eric Booker City of Chattanooga – Dept. of Public Works 1250 Market Street, Suite 2100 Chattanooga, Tennessee 37402-2713

RE: Proposal for Additional Services for City of Chattanooga Contract No. S-09-008 North St. Elmo Drainage System Study and Upgrade – Basic Services Supplement No. 1

Dear Mr. Booker:

Civic Engineering and Information Technologies, Inc. (Civic) is pleased to provide this proposal to the City of Chattanooga – Department of Public Works to furnish supplemental professional surveying and engineering services for the North St. Elmo Drainage System Study and Upgrade. The project began in November 2010. The additional work is related to a prolonged design schedule, plans revisions to accommodate multiple conveyance realignments, hydraulic analysis for additional options, additional surveying services and coordination with the Riverwalk Project and plans revisions to incorporate erosion control plans. The additional work is broken down by the original contract tasks as outlined below.

Basic Services

Task A – Basic Design Services

- 1. Prolonged design schedule required additional time for stopping and starting design
- 2. The initial proposal assumed a conveyance length of 4,100 linear feet for all conveyances, however, the final conveyance length is 4,700 linear feet for an increase in project scope of approximately 13%
- 3. City requested plans and specifications revisions were required after 95% design milestone to realign Conveyance 1 to accommodate future 7'X7' box culvert extension at the Walgreens Property
- 4. City requested plans revision to include an option for Contech Structural Plate (after 50% design milestone)
- 5. City requested plans and specifications revisions after 50% design milestone to realign Conveyance 2 vertically to accommodate possible future vertical realignment of Cummings Highway
- 6. City requested plans revisions based on utility pot-holes at Old Wauhatchie / Church Street intersection after 90% milestone
- 7. City requested coordination with the Riverwalk Project and plans revisions to include the proposed erosion control plan to include the Riverwalk Project

- 8. City requested coordination with TDEC to write a specification for treatment of contaminated soil Additional plans revisions to traffic control plans from TDOT (received after 95% design milestone and after original comments were addressed)
- 9. City requested that the plans and specifications be revised to reflect installation by tunneling rather than pipe jacking under Norfolk Southern Railroad for Conveyances 2 and 3.
- 10. City requested that changes be made to the structural design of the junction boxes in accordance with the following:
 - a. An additional junction box was added to the plans with a 48" RCP stub to accommodate the outfall of a future drainage project along St. Elmo Avenue
 - b. The junction box at the outfall of Conveyance 2 into Conveyance 1 was redesigned to accommodate maintenance access to the box culvert.
 - c. The junction box at the beginning of Conveyance 1 at the Walgreens property was redesigned to accommodate the realignment of the 7'x7' box along the west property line of the Walgreens property.
- 11. City requested that the plans and specifications be modified to include a new asphalt entrance on the Linde property along with the removal of the existing fuel island.
- 12. City requested that the plans and specifications be modified to include an underground detention system on the Mt. Vernon property.
- 13. Final QA/QC of plans and specifications based on the revisions listed above

Task B - Bid/Award Phase Services

- None

Task C - Construction Administration Phase Services

- None

Total Estimated Fee

Basic Design Services (Lump Sum):

\$124,132

Civic appreciates this opportunity to provide our proposal for services for this project. A detailed breakdown of man-hours can be found in "Attachment A". If you have any questions or comments, please contact us.

Sincerely,

Civic Engineering and

Information Technologies, Inc.

Philip Nelson, P.E.

Project Manager

North St. Elmo Drainage System Study and Upgrade Basic Design Services-Supplement No. 1 Attachment A

Basic Design Services (Lump Sum)

Task A - Basic Design Services

	The second of th		The state of the s		
	Project Manager	Project Engineer	Engineer	Admin	Totals
Prolonged Design Schedule - Stopping and Starting (November 2010 to January 2015)	20	80	140	40	\$24,620.00
Additional Conveyance Length (4,100 if proposed vs. 4,700 if actual)	20	9	120	20	\$19,960.00
Conveyance 1 Realignment for future 7'X7' Box at Walgreens property	4	50	80	2	\$12,456.00
Conveyanc 1 Revision to Include Option for Contech Structural Plate	4	24	40	2	\$6,456.00
Conveyance 2 Vertical Realignment for Future Realignment of Cummings Hwy	4	20	40	2	\$6,056.00
Plans Revisions Based on Utility Pot-Holes at Old Wauhatchie / Church Street Intersection	2	8	40	2	\$4,576.00
Coordination with Riverwalk Project and Plans Revisions to Incorporate EPSC Plan	2	8	24	2	\$3,216.00
Coordinate with TDEC to Write Specification for Treatement of Contaminated Soil	8	40	0	8	\$5,504.00
Additional TDOT Traffic Control Plans Revisions	2	10	40	2	\$4,776.00
Plans and Spicifications Revisions for Tunneling Under Railroad	2	8	40	0	\$4,480.00
Addition / Modifications for Junction Boxes	8	20	120	0	\$13,320.00
Plans and Spicifications Revisions for New Entrance to Linde and Removal of Fuel Island	2	4	24	0	\$2,720.00
Plans and Spicifications Revisions for an Underground Detention System on Tract 6 (Mt. Vernon)	2	2	80	0	\$7,280.00
Final QA/QC of Plans & Specifications	8	40	40	4	\$8,712.00
Total Design Hours	88	374	828	84	1374
Billing Rate by Labor Category	\$140.00	\$100.00	\$85.00	\$48.00	
Total Estimated Fee	\$12,320.00	\$37,400.00	\$70,380.00	\$4,032.00	\$124,132.00