

Steve Chutchian

From: K Curry [kcurry@gra-ce.net]
Sent: Thursday, January 30, 2003 4:47 PM
To: Steve Chutchian
Cc: Bruce Grantham
Subject: Fire Station No. 1

Steve,

I understand that the Fire Station No. 1 Drainage Improvements are complete. Did the contractor provide record drawings? Please let me know if you would like for us to provide as-built drawings based on the record drawings.

Also, we wanted to confirm the Tuesday meeting at your office at 2pm to discuss the drainage of Arapaho III and the Lindbergh drainage project was still a good time. Please let us know if that needed to change or remained the same.

Thank you,
Katura

Katura Curry, P.E.
Grantham & Associates, Inc.
1919 S. Shiloh Road
Suite 310, LB 8
Garland, TX 75042
Tel (972) 864-2333
Fax (972) 864-2334
e-mail: kcurry@gra-ce.net

Steve Chutchian

From: Jim Pierce
Sent: Friday, January 17, 2003 3:41 PM
To: Steve Chutchian
Cc: Luke Jalbert
Subject: FW: Restoration of Central fire planting bed

Steve: FYI and the file. Jim.

-----Original Message-----

From: Slade Strickland
Sent: Friday, January 17, 2003 2:42 PM
To: Ron Lee
Cc: Noel Padden; Jim Pierce; Mark Acevedo; Ricky Smith
Subject: FW: Restoration of Central fire planting bed

Proceed with you low bid contractor on this. Please let Chief Padden know when the work will begin so they will know what's going on when the contractor shows up.

-----Original Message-----

From: Randy Moravec
Sent: Friday, January 17, 2003 2:17 PM
To: Slade Strickland
Cc: Bryan Langley; Noel Padden
Subject: RE: Restoration of Central fire planting bed

Slade,

This should be charged to account 01-231-54910-00000. If it appears the additional \$4,000 will cause problems with the total Fire department budget, we will recognize the increased cost with a mid-year budget amendment.

Randy

-----Original Message-----

From: Slade Strickland
Sent: Friday, January 17, 2003 7:09 AM
To: Randy Moravec
Cc: Jim Pierce; Steve Chutchian; Mark Acevedo; Ron Lee
Subject: FW: Restoration of Central fire planting bed

Randy, please see the chain of emails below. We need to restore the landscaping damaged by the drain work recently completed at the Central Fire Building; however, there are no funds available. We do not have funding available in the parks budget since our landscape renovation budget was cut this year. Any ideas where we can find \$4,000? I guessed \$2000 initially, but there was more area to plant than I thought. Let me know. thanks.

-----Original Message-----

From: Jim Pierce
Sent: Thursday, January 16, 2003 4:42 PM
To: Slade Strickland
Cc: Michael Murphy; Steve Chutchian; Mark Acevedo
Subject: RE: Restoration of Central fire planting bed

Slade: I don't know of any funding that could be transferred from another project. Suggest you call Randy, he could probably find some money somewhere. Jim.

-----Original Message-----

From: Slade Strickland
Sent: Monday, January 13, 2003 1:08 PM
To: Jim Pierce
Cc: Mark Acevedo; Ron Lee
Subject: RE: Restoration of Central fire planting bed

Can funding from another project be transferred to this project? Chris will not want to wait until next fall to do this work since it is in the front door of the Central Fire building.

-----Original Message-----

From: Jim Pierce
Sent: Monday, January 13, 2003 11:24 AM
To: Mark Acevedo; Slade Strickland
Cc: Steve Chutchian
Subject: RE: Restoration of Central fire planting bed

Mark, Slade: I know of no contingency funds for landscaping. Landscape repair was not included in the project because we did not know what was to be done at the end. Irrigation repair was included. I guess we just wait until next year's budget to do the final landscape restoration. Jim.

-----Original Message-----

From: Mark Acevedo
Sent: Thursday, January 09, 2003 10:46 AM
To: Slade Strickland
Cc: Jim Pierce; Steve Chutchian
Subject: RE: Restoration of Central fire planting bed

Slade,

It was my understanding that the project budget was covering this and that there was a line item for miscellaneous landscape repair as well as a 20% contingency. I need some clarification from Jim Pierce and Steve Chutchian before we can act one way or another. Thanks!

Mark

-----Original Message-----

From: Slade Strickland
Sent: Thursday, January 09, 2003 8:07 AM
To: Mark Acevedo
Subject: FW: Restoration of Central fire planting bed

What do you think? I don't have this as a budgeted item in our budget. On all restoration work like this, we typically depend on the project budget to cover landscape and irrigation restoration. My landscape renovation budget was reduced this year, so I don't have any flexibility like I have had in previous years. Normally I would say it's a no brainer and fund it from my misc. landscape account.

thanks

-----Original Message-----

From: Steve Chutchian
Sent: Thursday, January 09, 2003 7:48 AM
To: Slade Strickland
Cc: Jim Pierce; Luke Jalbert
Subject: RE: Restoration of Central fire planting bed

I have the final pay request in hand. The original contract amount was \$73,917.50. The final total cost of construction is \$74,517.50. This resulted in an overrun of \$600.00. The funds for this project have now been exhausted. Consequently, the project cannot absorb an additional \$2,000.00 unless Mark Acevedo is willing to take the additional amount to Council as part of the final payment. Thanks.

Steve C.

-----Original Message-----

From: Slade Strickland
Sent: Wednesday, January 08, 2003 2:08 PM
To: Luke Jalbert; Steve Chutchian
Subject: FW: Restoration of Central fire planting bed

Do you know the answer?...since Jim is out.

-----Original Message-----

From: Slade Strickland
Sent: Wednesday, January 08, 2003 2:07 PM
To: Jim Pierce
Cc: Ron Lee; Noel Padden; Ricky Smith; Chris Terry
Subject: Restoration of Central fire planting bed

Jim, we are getting price quotes to restore the planting bed at the Central Fire Station. We removed the hollies yesterday. Are funds available from this project account to do this work? I estimate the cost to be in the neighborhood of \$2,000. Please let me know if this is possible. thanks

Slade Strickland
Director of Parks and Recreation
Town of Addison
o 972-450-2869
f 972-450-2834

Steve Chutchian

To: Slade Strickland
Cc: Jim Pierce; Luke Jalbert
Subject: RE: Restoration of Central fire planting bed

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Director of Parks and Recreation
Town of Addison
o 972-450-2869
f 972-450-2834

LINDER CONSTRUCTION CO., INC.		ADDISON FIRE STATION NO. 1 DRAINAGE IMPROVEMENTS								
2200 Cantrell Sansom Rd.		Linder Job No. 199								
Fort Worth, Texas 76131										
Phone (817) 232-5555 Fax (817) 232-3338		Start Date: 9/18/02								
		Contract Amount @ Award =						\$ 73,917.50		
PAY ESTIMATE No. 4 & Final		Change Orders =						\$ -		
1 December thru 31 December		Revised Contract Amount =						\$ 73,917.50		
		Work Days this Period =						5		
		Work Days to Date =						34		
								Work		
Bid	Contract	Previous	Qty this	Qty to	Unit	Pay this	Completed	Percent		
Item No.	Description	Quantity	Unit	Quantity	Estimate	Date	Price	Estimate	to Date	Complete
101	Mobilization	1	LS	100%	0%	100%	\$ 15,700.00	\$ -	\$ 15,700.00	100.00%
102	Unclassified Excavation	10	CYD	10	0	10	\$ 48.00	\$ -	\$ 480.00	100.00%
103	Full Depth Saw Cut	250	LF	250	0	250	\$ 2.50	\$ -	\$ 625.00	100.00%
104	Remove & Dispose Concrete Sidewalk	41	SYD	41	0	41	\$ 5.50	\$ -	\$ 225.50	100.00%
105	Remove & Dispose Concrete Flume	50	SYD	50	0	50	\$ 18.00	\$ -	\$ 900.00	100.00%
106	Remove & Dispose Brick Lndscape Wall	14	LF	14	0	14	\$ 15.00	\$ -	\$ 210.00	100.00%
107	4" Concrete Sidewalk	43	SYD	43	0	43	\$ 54.00	\$ -	\$ 2,322.00	100.00%
108	Concrete Flume including Grates	194	LF	194	0	194	\$ 175.00	\$ -	\$ 33,950.00	100.00%
109	12" HDPE Pipe	185	LF	185	0	185	\$ 58.00	\$ -	\$ 10,730.00	100.00%
110	Concrete Grate Inlet	1	EA	1	0	1	\$ 760.00	\$ -	\$ 760.00	100.00%
111	Concrete Junction Box	3	EA	3	0	3	\$ 550.00	\$ -	\$ 1,650.00	100.00%
112	Brick Landscape Wall	26	LF	26	0	26	\$ 20.00	\$ -	\$ 520.00	100.00%
113	Block Sod	95	SYD	0	195	195	\$ 6.00	\$ 1,170.00	\$ 1,170.00	205.26%
114	Adjust Existin Cleanouts	2	EA	2	0	2	\$ 130.00	\$ -	\$ 260.00	100.00%
115	Irrigation system maintenance	1	LS	100%	0%	100%	\$ 1,100.00	\$ -	\$ 1,100.00	100.00%
116	Trench Safety	75	LF	75	0	75	\$ 13.00	\$ -	\$ 975.00	100.00%
117	Lower Existing Water Line	1	LS	100%	0%	100%	\$ 1,700.00	\$ -	\$ 1,700.00	100.00%
118	Trim Shrubs and Trees	1	LS	100%	0%	100%	\$ 900.00	\$ -	\$ 900.00	100.00%
119	Plug 12" line	2	EA	2	0	2	\$ 170.00	\$ -	\$ 340.00	100.00%
I, hereby certify, to the best of my knowledge and belief, that--		Total Work Complete to date:						\$ 74,517.50		100.81%
1. The amounts requested are only for performance in		Total Material on Hand Billed this Period:						GRATES		\$ -
accordance with the specifications, terms, and conditions of the		Total Complete to Date & Material on Hand This Period						\$ 74,517.50		100.81%
contract;		Less Retainage: 10%						\$ -		0.00%
2. Payments to subcontractors and suppliers have been made		Subtotal						\$ 74,517.50		100.81%
from previous payments received under the contract, and timely		Less Previous Payments						\$ 66,012.75		89.31%
payments will be made from the proceeds of the payment		Due This Estimate:						\$ 8,504.75		11.51%
covered by this certification, in accordance with subcontract										
agreements and the requirements of Chapter 39 of Title 31,										
United States Code; and										
3. This request for progress payments does not include any		Material on Hand								
amounts which the prime contractor intends to withhold or retain		Description		Quantity		Unit		Invoice Price		This Month
from a subcontractor or supplier in accordance with the terms and		Invoice Price		This Month						
conditions of the subcontract.										
David H. Linder		Luke Jalbert						David Wilde		
Vice President		Project Manager						Inspector		
1-7-03										

Steve Chutchian

From: Jim Pierce
Sent: Monday, January 13, 2003 11:24 AM
To: Mark Acevedo; Slade Strickland
Cc: Steve Chutchian
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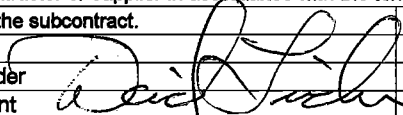
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Slade Strickland
Director of Parks and Recreation
Town of Addison
o 972-450-2869
f 972-450-2834

LINDER CONSTRUCTION CO., INC.		ADDISON FIRE STATION NO. 1 DRAINAGE IMPROVEMENTS								
2200 Cantrell Sansom Rd.		Linder Job No. 199								
Fort Worth, Texas 76131										
Phone (817) 232-5555 Fax (817) 232-3338		Start Date: 9/18/02								
		Contract Amount @ Award =							\$ 73,917.50	
PAY ESTIMATE No. 3		Change Orders =							\$ -	
Estimate F1 November thru 30 November		Revised Contract Amount =							\$ 73,917.50	
		Work Days this Period =							5	
		Work Days to Date =							29	
									Work	
Bid		Contract	Previous	Qty this	Qty to	Unit	Pay this	Completed	Percent	
Item No.	Description	Quantity	Unit	Quantity	Estimate	Date	Price	Estimate	to Date	Complete
101	Mobilization	1	LS	90%	10%	100%	\$ 15,700.00	\$ 1,570.00	\$ 15,700.00	100.00%
102	Unclassified Excavation	10	CYD	10	0	10	\$ 48.00	\$ -	\$ 480.00	100.00%
103	Full Depth Saw Cut	250	LF	250	0	250	\$ 2.50	\$ -	\$ 625.00	100.00%
104	Remove & Dispose Concrete Sidewalk	41	SYD	41	0	41	\$ 5.50	\$ -	\$ 225.50	100.00%
105	Remove & Dispose Concrete Flume	50	SYD	50	0	50	\$ 18.00	\$ -	\$ 900.00	100.00%
106	Remove & Dispose Brick Landscape Wall	14	LF	14	0	14	\$ 15.00	\$ -	\$ 210.00	100.00%
107	4" Concrete Sidewalk	43	SYD	43	0	43	\$ 54.00	\$ -	\$ 2,322.00	100.00%
108	Concrete Flume including Grates	194	LF	75	119	194	\$ 175.00	\$ 20,825.00	\$ 33,950.00	100.00%
109	12" HDPE Pipe	185	LF	185	0	185	\$ 58.00	\$ -	\$ 10,730.00	100.00%
110	Concrete Grate Inlet	1	EA	0	1	1	\$ 760.00	\$ 760.00	\$ 760.00	100.00%
111	Concrete Junction Box	3	EA	1	2	3	\$ 550.00	\$ 1,100.00	\$ 1,650.00	100.00%
112	Brick Landscape Wall	26	LF	0	26	26	\$ 20.00	\$ 520.00	\$ 520.00	100.00%
113	Block Sod	95	SYD	0	0	0	\$ 6.00	\$ -	\$ -	0.00%
114	Adjust Existin Cleanouts	2	EA	0	2	2	\$ 130.00	\$ 260.00	\$ 260.00	100.00%
115	Irrigation system maintenance	1	LS	50%	50%	100%	\$ 1,100.00	\$ 550.00	\$ 1,100.00	100.00%
116	Trench Safety	75	LF	0	75	75	\$ 13.00	\$ 975.00	\$ 975.00	100.00%
117	Lower Existing Water Line	1	LS	100%	0%	100%	\$ 1,700.00	\$ -	\$ 1,700.00	100.00%
118	Trim Shrubs and Trees	1	LS	100%	0%	100%	\$ 900.00	\$ -	\$ 900.00	100.00%
119	Plug 12" line	2	EA	2	0	2	\$ 170.00	\$ -	\$ 340.00	100.00%
I, hereby certify, to the best of my knowledge and belief, that—		Total Work Complete to date:							\$ 73,347.50	99.23%
1. The amounts requested are only for performance in accordance with the specifications, terms, and conditions of the contract;		Total Material on Hand Billed this Period: GRATES							\$ -	
		Total Complete to Date & Material on Hand This Period							\$ 73,347.50	99.23%
		Less Retainage: 10%							\$ 7,334.75	9.92%
2. Payments to subcontractors and suppliers have been made from previous payments received under the contract, and timely payments will be made from the proceeds of the payment covered by this certification, in accordance with subcontract agreements and the requirements of Chapter 39 of Title 31, United States Code; and		Subtotal							\$ 66,012.75	89.31%
		Less Previous Payments							\$ 51,172.81	69.23%
3. This request for progress payments does not include any amounts which the prime contractor intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract.		Due This Estimate:							\$ 14,839.94	20.08%
		Material on Hand								
		Description		Quantity	Unit	Invoice Price	This Month			
		Invoice Price		This Month						
David H. Linder		Luke Jalbert		David Wilde						
Vice President		Project Manager		Inspector						
9/30/02										

#R7-1

Passed
8/27/07

Council Agenda Item #R7

SUMMARY:

This item is for the award of a contract to Linder Construction, Inc., for construction of Fire Station No. 1 Drainage Improvements.

FINANCIAL IMPACT:

Budgeted Amount: \$73,917.50

Construction Cost: \$73,917.50

Source of Funds: Funds will be available in the FY 2002-03 Fire Department Operating Budget.

BACKGROUND:

The main building of Fire Station No. 1 is located at the southwest corner of the intersection of Addison Road and Airport Parkway. Portions of the building, along the north and east sides, are subject to surface water flooding during heavy rain events. This is due to the lack of a vertical difference between the finished floor elevation and the elevation of the exterior flumes and landscaping. The firm of GBW Engineers, Inc. prepared engineering plans and specifications for construction of proposed drainage improvements that will eliminate the existing flooding conditions.

Attached is a bid tabulation for the proposed construction improvements. Linder Construction, Inc. submitted the lowest responsive bid, in the amount of \$73,917.50. Construction of these improvements is scheduled for completion within sixty (60) working days. The contractor has completed similar construction improvements in this area in a satisfactory manner.

RECOMMENDATION:

Staff recommends that Council authorize the City Manager to enter into a contract with Linder Construction, Inc. for the Fire Station No. 1 Drainage Improvements, in the amount of \$73,917.50.

Fire Station 1 Drainage Improvements

BID NO 02-38

Bid Opening: August 8, 2002

2:00 PM

BIDDER	SIGNED	Bid Bond	total	Add 1
Rycon	y	y	\$82,500.00	y
Tricon	y	y	\$89,095.00	y
Linder Construction	y	y	\$73,917.50	y
zuzu	y	y	\$78,115.00	y
Aui	y	y	\$103,320.00	y
canfer	y	y	\$169,235.00	y

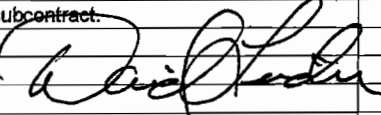
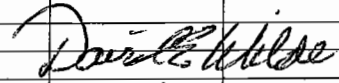
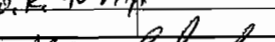
Minok Suh

Minok Suh, Purchasing Coordinator

Corey Gayden

Corey Gayden, Witness

#R7-2

LINDER CONSTRUCTION CO., INC.		ADDISON FIRE STATION NO. 1 DRAINAGE IMPROVEMENTS									
2200 Cantrell Sansom Rd.		Linder Job No. 199									
Fort Worth, Texas 76131											
Phone (817) 232-5555 Fax (817) 232-3338		Start Date: 9/18/02									
		Contract Amount @ Award =							\$	73,917.50	
PAY ESTIMATE No. 2		Change Orders =							\$	-	
Estimate Period : 1 October thru 31 October 02		Revised Contract Amount =							\$	73,917.50	
		Work Days this Period =							18		
		Work Days to Date =							24		
		Work									
Bid Item No.	Description	Contract Quantity	Unit	Previous Quantity	Qty this Estimate	Qty to Date	Unit Price	Pay this Estimate	Completed to Date	Percent Complete	
101	Mobilization	1	LS	90%	0%	90%	\$ 15,700.00	\$ -	\$ 14,130.00	90.00%	
102	Unclassified Excavation	10	CYD	0	10	10	\$ 48.00	\$ 480.00	\$ 480.00	100.00%	
103	Full Depth Saw Cut	250	LF	250	0	250	\$ 2.50	\$ -	\$ 625.00	100.00%	
104	Remove & Dispose Concrete Sidewalk	41	SYD	41	0	41	\$ 5.50	\$ -	\$ 225.50	100.00%	
105	Remove & Dispose Concrete Flume	50	SYD	45	5	50	\$ 18.00	\$ 90.00	\$ 900.00	100.00%	
106	Remove & Dispose Brick Lndscape Wall	14	LF	0	14	14	\$ 15.00	\$ 210.00	\$ 210.00	100.00%	
107	4" Concrete Sidewalk	43	SYD	0	43	43	\$ 54.00	\$ 2,322.00	\$ 2,322.00	100.00%	
108	Concrete Flume including Grates	194	LF	0	75	75	\$ 175.00	\$ 13,125.00	\$ 13,125.00	38.66%	
109	12" HDPE Pipe	185	LF	165	20	185	\$ 58.00	\$ 1,160.00	\$ 10,730.00	100.00%	
110	Concrete Grate Inlet	1	EA	0	0	0	\$ 760.00	\$ -	\$ -	0.00%	
111	Concrete Junction Box	3	EA	0	1	1	\$ 550.00	\$ 550.00	\$ 550.00	33.33%	
112	Brick Landscape Wall	26	LF	0	0	0	\$ 20.00	\$ -	\$ -	0.00%	
113	Block Sod	95	SYD	0	0	0	\$ 6.00	\$ -	\$ -	0.00%	
114	Adjust Existin Cleanouts	2	EA	0	2	2	\$ 130.00	\$ 260.00	\$ 260.00	100.00%	
115	Irrigation system maintenance	1	LS	0	50%	50%	\$ 1,100.00	\$ 550.00	\$ 550.00	50.00%	
116	Trench Safety	75	LF	0	75	75	\$ 13.00	\$ 975.00	\$ 975.00	100.00%	
117	Lower Existing Water Line	1	LS	0%	100%	100%	\$ 1,700.00	\$ 1,700.00	\$ 1,700.00	100.00%	
118	Trim Shrubs and Trees	1	LS	100%	0%	100%	\$ 900.00	\$ -	\$ 900.00	100.00%	
119	Plug 12" line	2	EA	0	2	2	\$ 170.00	\$ 340.00	\$ 340.00	100.00%	
I, hereby certify, to the best of my knowledge and belief, that—		Total Work Complete to date:							\$	48,022.50	64.97%
1. The amounts requested are only for performance in accordance with the specifications, terms, and conditions of the contract;		Total Material on Hand Billed this Period: GRATES							\$	8,836.18	
		Total Complete to Date & Material on Hand This Period							\$	56,858.68	76.92%
		Less Retainage: 10%							\$	5,685.87	7.69%
2. Payments to subcontractors and suppliers have been made from previous payments received under the contract, and timely payments will be made from the proceeds of the payment covered by this certification, in accordance with subcontract agreements and the requirements of Chapter 39 of Title 31, United States Code; and		Subtotal							\$	51,172.81	69.23%
		Less Previous Payments							\$	23,634.45	31.97%
		Due This Estimate:							\$	27,538.36	37.26%
3. This request for progress payments does not include any amounts which the prime contractor intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract.		Material on Hand									
		Description		Quantity		Unit		Invoice Price		This Month	
		Invoice Price		This Month							
David H. Linder Vice President 9/30/02				Luke Jalbert Project Manager				David Wilde Inspector		 11/7/02 D.K. to PAY.  11/7/02	

ORIGINAL

INVOICE

NEENAH FOUNDRY COMPANY

Box 729, Neenah, WI 54956-0729
Phone (920) 725-7000
Fax No. (920) 729-3682

TERMS - NET 30 DAYS

SHIP TO (IF DIFFERENT FROM SOLD TO)

S
O
L
D

LINDER CONSTRUCTION INC
2200 CANTRELL SAMSON
FORT WORTH TX 76131

LINDER CONSTRUCTION INC
4798 AIRPORT PKWY

ADDISON TX 75001

PAGE 1

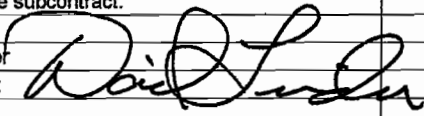
PLEASE REFER TO INVOICE NUMBER & CUSTOMER NUMBER ON ALL CORRESPONDENCE CONCERNING THIS INVOICE

ROUTING		PURCHASE ORDER		JOB NUMBER	DATE SHIPPED	INVOICE NUMBER	CUSTOMER NO.
ROADRUNNER PPD		199-P-002		61906	10/01/02	108	L62700
QUANTITY	PART NUMBER	CATALOG	DESCRIPTION		PRICE		AMOUNT
@ 192 FT FURNISH AS:							
128	49901536	4990-DX	SIDE PC. FRAME	T6190-601	7,872.00	LOT	7,872.00
128	49904141		TRENCH GRATE	T6190-601			
8	49903114	4990-DX	END PC. FRAME		8.50	EA.	68.00
1	43424000	4342	GRATE	P4342-400	171.00	EA.	171.00
						SUB-TOTAL	8,111.00
FREIGHT							725.18
						** TOTAL	8,836.18

1300

INVC

1. CLAIMS FOR ERRORS IN WEIGHT OR NUMBER MUST BE MADE WITHIN TEN DAYS AFTER THE RECEIPT OF THE CASTINGS.
2. NEENAH FOUNDRY CO. IS NOT RESPONSIBLE FOR LOSS OF OR DAMAGE TO PATTERNS BY FIRE OR OTHER CASUALTIES, IT SHALL BE THE OBLIGATION OF THE CUSTOMER TO INSURE HIS EQUIPMENT. WE DO NOT INSURE CUSTOMERS' PATTERNS.
3. PRICES DO NOT INCLUDE SALES, USE, OCCUPATIONAL OR SIMILAR TAX. IF ANY TAX OF THIS NATURE IS IMPOSED ON THIS SALE, IT IS TO BE PAID BY THE PURCHASER DIRECTLY TO THE GOVERNMENTAL AGENCY ASSESSING THE TAX, ANY SALES, USE, OCCUPATIONAL, OR SIMILAR TAX IMPOSED ON THIS SALE, IF UNBILLED, IS THE OBLIGATION OF THE PURCHASER.
4. SELLER HEREBY CERTIFIES THAT THE ABOVE MATERIALS WERE PRODUCED IN CONFORMITY WITH THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED.
5. LIMITATION OF DAMAGES: UNDER NO CIRCUMSTANCES WILL NEENAH FOUNDRY CO. BE RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM OR IN CONNECTION WITH THE USE OF ANY NEENAH FOUNDRY CASTING.

LINDER CONSTRUCTION CO., INC.			ADDISON FIRE STATION NO. 1 DRAINAGE IMPROVEMENTS							
2200 Cantrell Sansom Rd. Fort Worth, Texas 76131 Phone (817) 232-5555 Fax (817) 232-3338			Linder Job No. 199							
			Start Date: 9/18/02							
Pay Estimate No. 1			Contract Amount @ Award = \$ 73,917.50							
Estimate Period: 18 September 02 thru 30 September 02			Change Orders = \$ -							
			Revised Contract Amount = \$ 73,917.50							
			Work Days this Period = 0							
			Work Days to Date = 0							
			Work							
Bid		Contract	Previous	Qty this	Qty to	Unit	Pay this	Completed	Percent	
Item No.	Description	Quantity	Quantity	Estimate	Date	Price	Estimate	to Date	Complete	
101	Mobilization	1 LS	0%	90%	90%	\$ 15,700.00	\$ 14,130.00	\$ 14,130.00	90.00%	
102	Unclassified Excavation	10 CYD	0	0	0	\$ 48.00	\$ -	\$ -	0.00%	
103	Full Depth Saw Cut	250 LF	0	250	250	\$ 2.50	\$ 625.00	\$ 625.00	100.00%	
104	Remove & Dispose Concrete Sidewalk	41 SYD	0	41	41	\$ 5.50	\$ 225.50	\$ 225.50	100.00%	
105	Remove & Dispose Concrete Flume	50 SYD	0	45	45	\$ 18.00	\$ 810.00	\$ 810.00	90.00%	
106	Remove & Dispose Brick Lndscape Wall	14 LF	0	0	0	\$ 15.00	\$ -	\$ -	0.00%	
107	4" Concrete Sidewalk	43 SYD	0	0	0	\$ 54.00	\$ -	\$ -	0.00%	
108	Concrete Flume including Grates	194 LF	0	0	0	\$ 175.00	\$ -	\$ -	0.00%	
109	12" HDPE Pipe	185 LF	0	165	165	\$ 58.00	\$ 9,570.00	\$ 9,570.00	89.19%	
110	Concrete Grate Inlet	1 EA	0	0	0	\$ 760.00	\$ -	\$ -	0.00%	
111	Concrete Junction Box	3 EA	0	0	0	\$ 550.00	\$ -	\$ -	0.00%	
112	Brick Landscape Wall	26 LF	0	0	0	\$ 20.00	\$ -	\$ -	0.00%	
113	Block Sod	95 SYD	0	0	0	\$ 6.00	\$ -	\$ -	0.00%	
114	Adjust Existin Cleanouts	2 EA	0	0	0	\$ 130.00	\$ -	\$ -	0.00%	
115	Irrigation system maintenance	1 LS	0	0	0	\$ 1,100.00	\$ -	\$ -	0.00%	
116	Trench Safety	75 LF	0	0	0	\$ 13.00	\$ -	\$ -	0.00%	
117	Lower Existing Water Line	1 LS	0%	0%	0%	\$ 1,700.00	\$ -	\$ -	0.00%	
118	Trim Shrubs and Trees	1 LS	0%	100%	100%	\$ 900.00	\$ 900.00	\$ 900.00	100.00%	
119	Plug 12" line	2 EA	0	0	0	\$ 170.00	\$ -	\$ -	0.00%	
I, hereby certify, to the best of my knowledge and belief, that---			Total Work Complete to date:					\$ 26,260.50	35.53%	
1. The amounts requested are only for performance in accordance with the specifications, terms, and conditions of the contract;			Total Material on Hand Billed this Period:					\$ -		
2. Payments to subcontractors and suppliers have been made from previous payments received under the contract, and timely payments will be made from the proceeds of the payment covered by this certification, in accordance with subcontract agreements and the requirements of Chapter 39 of Title 31, United States Code; and			Total Complete to Date & Material on Hand This Period					\$ 26,260.50	35.53%	
			Less Retainage: 10%					\$ 2,626.05	3.55%	
			Subtotal					\$ 23,634.45	31.97%	
			Less Previous Payments					\$ -	0.00%	
			Due This Estimate:					\$ 23,634.45	31.97%	
3. This request for progress payments does not include any amounts which the prime contractor intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract.			Material on Hand							
			Description		Quantity	Unit	Invoice Price	This Month		
			Invoice Price		This Month					
David H. Linder Vice President 9/30/02			Luke Jalbert Project Manager					David Wilde Inspector		



INVOICE

Mr. Jim Pierce, P.E.
Town of Addison
16801 Westgrove Drive
Addison, Texas 75001

Invoice No.: 9008

Date: October 1, 2002

G&A Project No.: 02-314

PROJECT: Fire Station No. 1 Drainage Improvements

INVOICE SUMMARY

From 8/1/02 to 9/21/02

Total Contract Amount	\$ 14,995.00
Total Due This Invoice	\$ 478.90
Total Previous Invoices	\$ 13,371.60
<hr/>	
Total Billed to Date	\$ 13,850.50
Less Payments/Credits	(\$ 13,371.60)
<hr/>	
Total Amount Now Due	\$ 478.90
Amount This Invoice	\$ 478.90

*O.K.
for Christian*

**Please Retain This
Page For Your Records**

Invoice No.: 9008
Date: October 1, 2002
Project: Fire Station No. 1 Drainage Improvements

1. Design Survey

Total Phase Amount	\$	3,204.00
100% complete		\$ 3,204.00

2. Engineering Services

Total Phase Amount	\$	9,002.00
100% complete		\$ 9,002.00

3. Bidding and Construction

Total Phase Amount	\$	2,289.00
50% complete		\$ 1,144.50

4. Reimbursables

Total Phase Amount	\$	500.00
100% complete		\$ 500.00

TOTAL BILLED TO DATE >>> \$ 13,850.50



Mr. Jim Pierce, P.E.
Town of Addison
16801 Westgrove Drive
Addison, Texas 75001

Invoice No.: 9008

Date: October 1, 2002

G&A Project No.: 02-314

PROJECT: Fire Station No. 1 Drainage Improvements

REMITTANCE PAGE:

Total Current Invoice \$ 478.90

TOTAL AMOUNT ENCLOSED \$ _____

Pay to the Order Of:

Grantham & Associates, Inc.
1919 S. Shiloh Road
Suite 310
L.B. 8
Garland, Texas 75042

**Please Return This Page With Payment
For Prompt And Accurate Credit**



LINDER CONSTRUCTION COMPANY, INC.

2200 Cantrell-Sansom Rd • Fort Worth, Texas 76131

Office 817.232.5555 • Fax 817.232.3338

September 12, 2002

Town of Addison
16801 Westgrove
Addison, Texas

Attention: Mr. Luke Jalbert, Project Manager

Reference: Addison Fire Station No. 1
Drainage Improvements

Dear Sir:

This letter is to inform you that Scott Jones will be our Superintendent on this project. His cell phone number is 817-253-4009 and his home number is 817-448-9282. In addition Kurt Diedrich will also be available. His cell number is 817-253-4007 and his home number is 817-444-0570.

If you have any questions, or require any further information, please contact us.

Sincerely,

LINDER CONSTRUCTION CO., INC.

David H. Linder
Vice President



LINDER CONSTRUCTION COMPANY, INC.

2200 Cantrell-Sansom Rd • Fort Worth, Texas 76131

Office 817.232.5555 • Fax 817.232.3338

September 12, 2002

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16801 Westgrove
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LINDER CONSTRUCTION CO., INC.

David H. Linder
Vice President



LINDER CONSTRUCTION COMPANY, INC.

2200 Cantrell-Sansom Rd • Fort Worth, Texas 76131

Office 817.232.5555 • Fax 817.232.3338

NTP - Wednesday - 18th

September 12, 2002

Town of Addison
16801 Westgrove
Addison, Texas

Attention: Mr. Luke Jalbert, Project Manager

Reference: Addison Fire Station No. 1
Drainage Improvements

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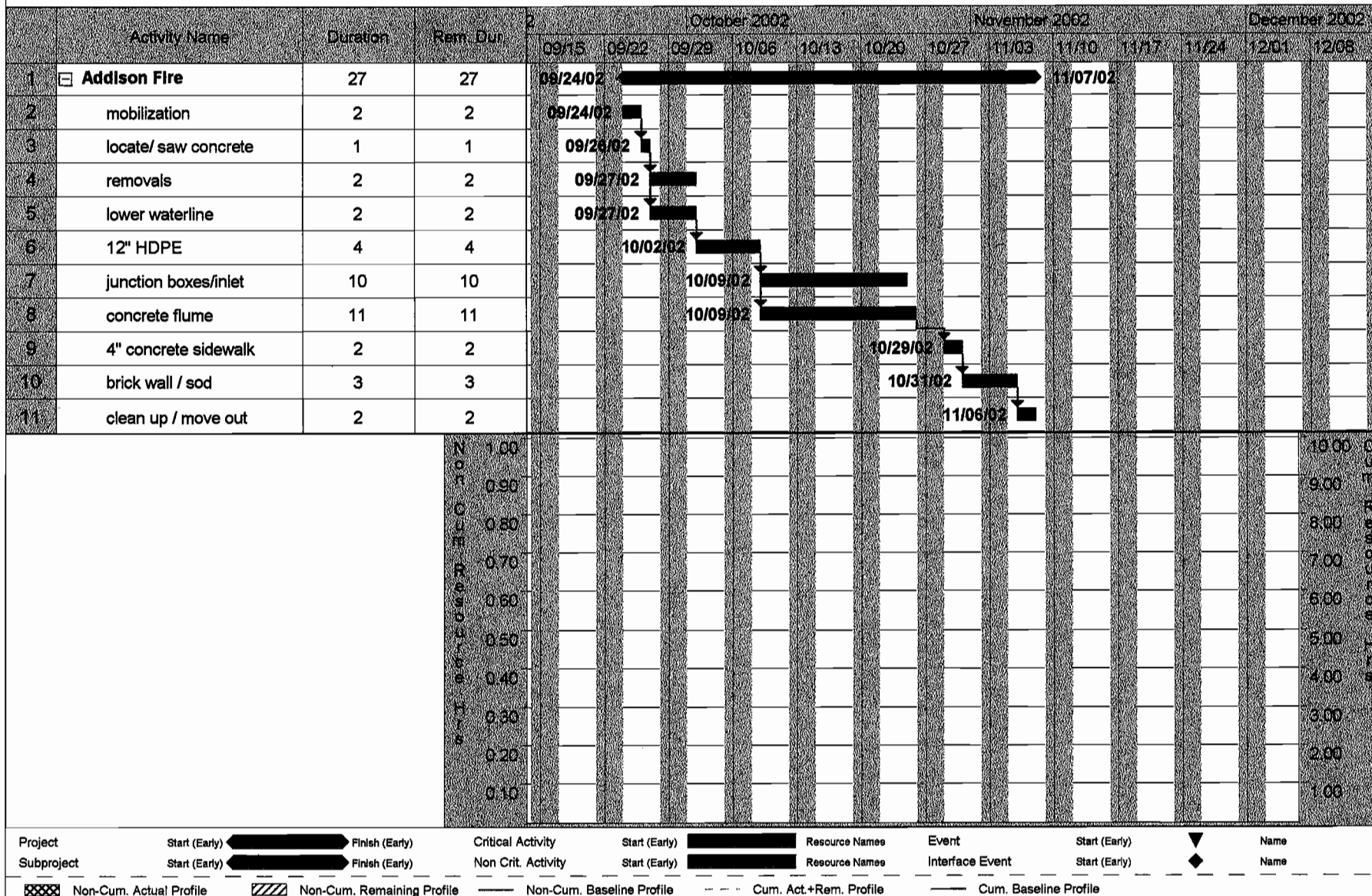
LINDER CONSTRUCTION CO., INC.

David H. Linder
Vice President

Start: 09/24/02
Finish: 11/08/02

Addison Fire : Addison Fire

Outline Gantt View: Default Outline Gantt View Table

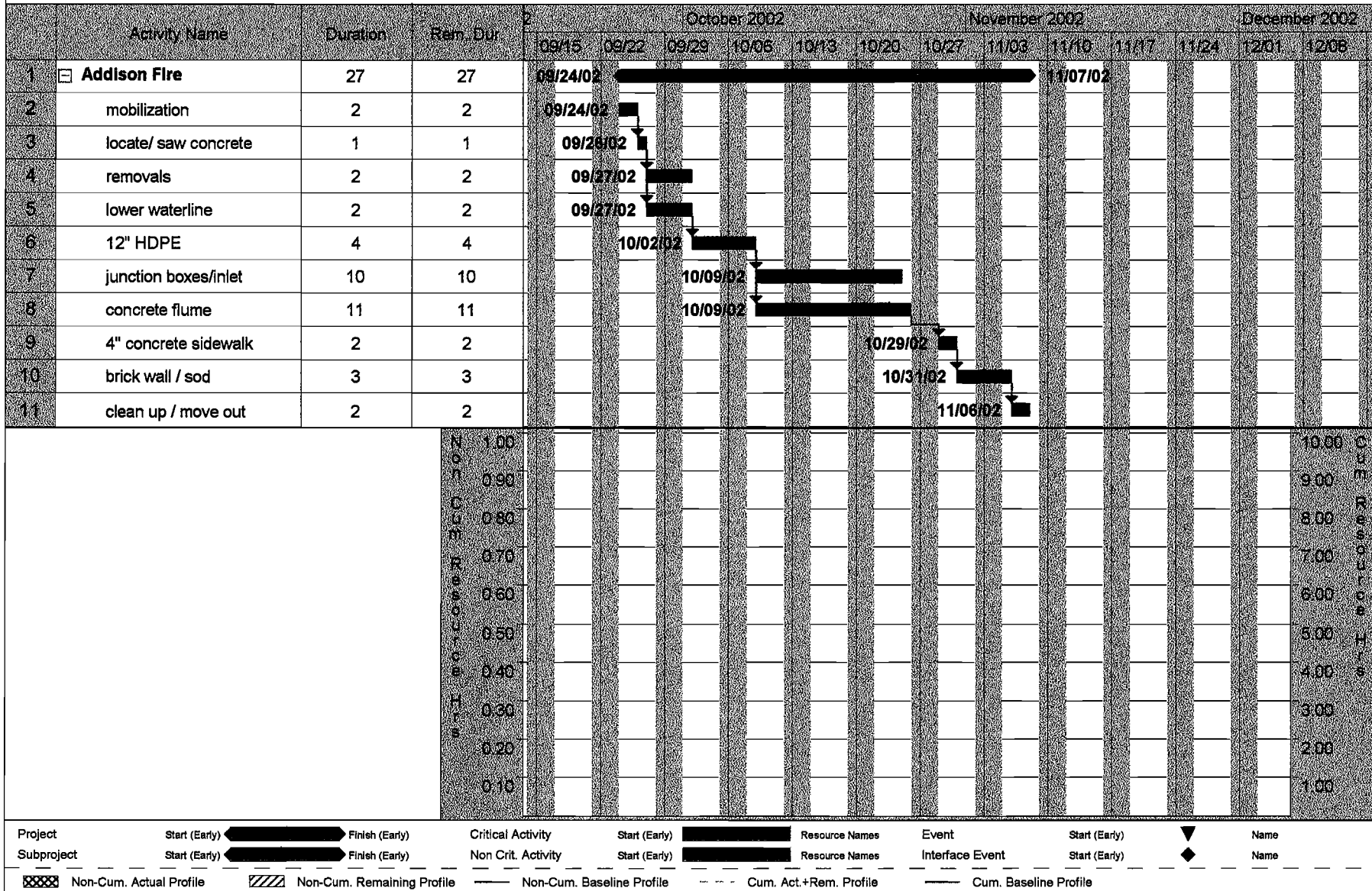


Filtered by objects: <All Objects>, usages: and Sorted by <None>

Start: 09/24/02
Finish: 11/08/02

Addison Fire : Addison Fire

Outline Gantt View: Default Outline Gantt View Table



Project Start (Early) [Bar] Finish (Early) Critical Activity Start (Early) [Bar] Resource Names Event Start (Early) [Bar] Name
 Subproject Start (Early) [Bar] Finish (Early) Non Crit. Activity Start (Early) [Bar] Resource Names Interface Event Start (Early) [Bar] Name
 [Pattern] Non-Cum. Actual Profile [Pattern] Non-Cum. Remaining Profile [Pattern] Non-Cum. Baseline Profile [Pattern] Cum. Act.+Rem. Profile [Pattern] Cum. Baseline Profile

Filtered by objects: <All Objects>, usages: and Sorted by <None>

DATE SUBMITTED: August 19, 2002
FOR COUNCIL MEETING: August 27, 2002

PASSED
CONTRACT APPROVED
SUBJECT TO BUDGET
APPROVED

Council Agenda Item

SUMMARY:

This item is for the award of a contract to Linder Construction, Inc., for construction of Fire Station No. 1 Drainage Improvements.

FINANCIAL IMPACT:

Budgeted Amount: \$73,917.50
Construction Cost: \$73,917.50
Source of Funds: Funds will be available in the FY 2002-03 Fire Department Operating Budget.

2 weeks to sign contract

BACKGROUND:

The main building of Fire Station No. 1 is located at the southwest corner of the intersection of Addison Road and Airport Parkway. Portions of the building, along the north and east sides, are subject to surface water flooding during heavy rain events. This is due to the lack of a vertical difference between the finished floor elevation and the elevation of the exterior flumes and landscaping. The firm of GBW Engineers, Inc. prepared engineering plans and specifications for construction of proposed drainage improvements that will eliminate the existing flooding conditions.

Attached is a bid tabulation for the proposed construction improvements. Linder Construction, Inc. submitted the lowest responsive bid, in the amount of \$73,917.50. Construction of these improvements is scheduled for completion within sixty (60) working days. The contractor has completed similar construction improvements in this area in a satisfactory manner.

RECOMMENDATION:

Staff recommends that Council authorize the City Manager to enter into a contract with Linder Construction, Inc. for the Fire Station No. 1 Drainage Improvements, in the amount of \$73,917.50.

Fire Station 1 Drainage Improvements

BID NO 02-38

Bid Opening: August 8, 2002

2:00 PM

BIDDER	SIGNED	Bid Bond	total	Add 1
Rycon	y	y	\$82,500.00	y
Tricon	y	y	\$89,095.00	y
Linder Construction	y	y	\$73,917.50	y
zuzu	y	y	\$78,115.00	y
Aui	y	y	\$103,320.00	y
canfer	y	y	\$169,235.00	y

Minok Suh

Minok Suh, Purchasing Coordinator

Corey Gayden

Corey Gayden, Witness



August 16, 2002

Mr. Jim Pierce, P.E.
Assistant Director of Public Works
Town of Addison
P. O. Box 9010
Addison, Texas 75001-9010

GBW No. 02-314

Ref: Addison Fire Station No. 1 Drainage Improvements
Recommendation of Award to Linder Construction, Inc.

Dear Jim:

On Thursday, August 8, 2002, the Town of Addison publicly opened six bids for the above referenced project. GBW Engineers, Inc. (GBW) tabulated the six bids (see attached bid tabulation) and the results are summarized below.

- 1. Linder Construction, Inc. \$ 73,917.50 No errors
2. ZuZu Construction Company \$ 78,115.00 No errors
3. Rycon, Inc. \$ 82,500.00 No errors
4. Tri-Con Services, Inc. \$ 89,095.00 No errors
5. Aui Contractors, L.P. \$103,320.00 No errors
6. Can-Fer Construction Company \$198,465.00 Item #109 was calculated incorrectly, increasing the bid by \$29,230.00.

Linder Construction, Inc. was the low bidder with a bid of \$73,917.50, while ZuZu Construction Company was the second low bidder with a bid of \$78,115.00. All of the references for Linder Construction, Inc. provided positive comments; consequently, we recommend that the City award the subject project to this firm in the amount of \$73,917.50.

Please contact me if you need any additional information.

Very truly yours,

[Handwritten signature]

Bruce R. Grantham, P.E.
Project Manager

Attachment

BG/gg

J:\WPDOCS\PROJECTS\ADDISON\02-314\Contractor Recommendation.LTR

BID TABULATION

August 16, 2002

Addison Fire Station No.1 Drainage Improvements Town of Addison

Item #	Quantity	Unit	Item	Linder Construction, Inc.		ZuZu Construction Company		Rycon Inc.	
				Unit Price	\$	Unit Price	\$	Unit Price	\$
101	1	L.S.	Mobilization	\$15,700.00	\$15,700.00	\$8,000.00	\$8,000.00	\$13,040.00	\$13,040.00
102	10	C.Y.	Unclassified excavation for swale, including rock	\$48.00	\$480.00	\$120.00	\$1,200.00	\$500.00	\$5,000.00
103	250	L.F.	Full depth sawcut existing concrete	\$2.50	\$625.00	\$5.00	\$1,250.00	\$10.00	\$2,500.00
104	41	S.Y.	Remove & dispose of existing concrete sidewalk	\$5.50	\$225.50	\$85.00	\$3,485.00	\$25.00	\$1,025.00
105	50	S.Y.	Remove & dispose of concrete flume & metal cover	\$18.00	\$900.00	\$95.00	\$4,750.00	\$20.00	\$1,000.00
106	14	L.F.	Remove & dispose of existing brick landscape wall	\$15.00	\$210.00	\$50.00	\$700.00	\$20.00	\$280.00
107	43	S.Y.	Furnish & place 4" reinforced concrete sidewalk	\$54.00	\$2,322.00	\$55.00	\$2,365.00	\$125.00	\$5,375.00
108	194	L.F.	Furnish & install reinforced concrete flume	\$175.00	\$33,950.00	\$150.00	\$29,100.00	\$55.00	\$10,670.00
109	185	L.F.	Furnish & install 12" HDPE pipe	\$58.00	\$10,730.00	\$50.00	\$9,250.00	\$125.00	\$23,125.00
110	1	EA.	Furnish & install reinforced concrete grate inlet	\$760.00	\$760.00	\$1,800.00	\$1,800.00	\$2,500.00	\$2,500.00
111	3	EA.	Furnish & install reinforced concrete junction box	\$550.00	\$1,650.00	\$1,500.00	\$4,500.00	\$2,000.00	\$6,000.00
112	26	L.F.	Furnish & install brick landscape wall to match	\$20.00	\$520.00	\$40.00	\$1,040.00	\$25.00	\$650.00
113	95	S.Y.	Furnish & install block sod within work zone	\$6.00	\$570.00	\$15.00	\$1,425.00	\$3.00	\$285.00
114	2	EA.	Adjust existing cleanouts	\$130.00	\$260.00	\$250.00	\$500.00	\$150.00	\$300.00
115	1	L.S.	Inspect, maintain, repair & test irrigation system	\$1,100.00	\$1,100.00	\$3,000.00	\$3,000.00	\$2,000.00	\$2,000.00
116	75	L.F.	Trench safety	\$13.00	\$975.00	\$10.00	\$750.00	\$50.00	\$3,750.00
117	1	L.S.	Lower existing water line	\$1,700.00	\$1,700.00	\$2,100.00	\$2,100.00	\$2,500.00	\$2,500.00
118	1	L.S.	Trim & maintain shrubs & trees in work zone	\$900.00	\$900.00	\$2,500.00	\$2,500.00	\$500.00	\$500.00
119	2	EA.	Plug existing 12" line	\$170.00	\$340.00	\$200.00	\$400.00	\$1,000.00	\$2,000.00
TOTALS:					\$73,917.50		\$78,115.00		\$82,500.00

BID TABULATION

August 16, 2002

Addison Fire Station No.1 Drainage Improvements Town of Addison

Item #	Quantity	Unit	Item	Tri-Con Services, Inc.		Aui Contractors, L.P.		Can-Fer Construction Company, Inc.	
				Unit Price	\$	Unit Price	\$	Unit Price	\$
101	1	L.S.	Mobilization	\$5,500.00	\$5,500.00	\$10,000.00	\$10,000.00	\$16,500.00	\$16,500.00
102	10	C.Y.	Unclassified excavation for swale, including rock	\$25.00	\$250.00	\$50.00	\$500.00	\$750.00	\$7,500.00
103	250	L.F.	Full depth sawcut existing concrete	\$5.00	\$1,250.00	\$6.00	\$1,500.00	\$5.00	\$1,250.00
104	41	S.Y.	Remove & dispose of existing concrete sidewalk	\$40.00	\$1,640.00	\$75.00	\$3,075.00	\$150.00	\$6,150.00
105	50	S.Y.	Remove & dispose of concrete flume & metal cover	\$50.00	\$2,500.00	\$85.00	\$4,250.00	\$175.00	\$8,750.00
106	14	L.F.	Remove & dispose of existing brick landscape wall	\$10.00	\$140.00	\$30.00	\$420.00	\$35.00	\$490.00
107	43	S.Y.	Furnish & place 4" reinforced concrete sidewalk	\$100.00	\$4,300.00	\$95.00	\$4,085.00	\$105.00	\$4,515.00
108	194	L.F.	Furnish & install reinforced concrete flume	\$150.00	\$29,100.00	\$275.00	\$53,350.00	\$181.00	\$35,114.00
109	185	L.F.	Furnish & install 12" HDPE pipe	\$100.00	\$18,500.00	\$60.00	\$11,100.00	\$185.00	\$34,225.00
110	1	EA.	Furnish & install reinforced concrete grate inlet	\$4,000.00	\$4,000.00	\$1,500.00	\$1,500.00	\$17,976.00	\$17,976.00
111	3	EA.	Furnish & install reinforced concrete junction box	\$4,000.00	\$12,000.00	\$1,400.00	\$4,200.00	\$6,800.00	\$20,400.00
112	26	L.F.	Furnish & install brick landscape wall to match	\$15.00	\$390.00	\$40.00	\$1,040.00	\$150.00	\$3,900.00
113	95	S.Y.	Furnish & install block sod within work zone	\$10.00	\$950.00	\$5.00	\$475.00	\$16.00	\$1,520.00
114	2	EA.	Adjust existing cleanouts	\$500.00	\$1,000.00	\$250.00	\$500.00	\$7,500.00	\$15,000.00
115	1	L.S.	Inspect, maintain, repair & test irrigation system	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$10,000.00	\$10,000.00
116	75	L.F.	Trench safety	\$1.00	\$75.00	\$3.00	\$225.00	\$1.00	\$75.00
117	1	L.S.	Lower existing water line	\$500.00	\$500.00	\$1,200.00	\$1,200.00	\$7,500.00	\$7,500.00
118	1	L.S.	Trim & maintain shrubs & trees in work zone	\$3,000.00	\$3,000.00	\$2,500.00	\$2,500.00	\$7,100.00	\$7,100.00
119	2	EA.	Plug existing 12" line	\$500.00	\$1,000.00	\$200.00	\$400.00	\$250.00	\$500.00
TOTALS:					\$89,095.00		\$103,320.00		\$198,465.00

Note: The bid submitted by Can-Fer Construction Company contained an error on item #109. The unit price was listed as \$185.00, however the total for that item was listed as \$4,995.00. With a quantity of 185 L.F., the correct total for item #109 would be \$34,225.00. Correcting this error results in an increase of \$29,230 to the total bid, from \$169,235.00 to \$198,465.00.

Facsimile Transmittal

Date: 8-16-02

From: **GBW Engineers, Inc.**
1919 S. Shiloh Rd.
Suite 500, L.B. 27
Garland, Texas 75042
Tel. (972) 840-1916
Fax (972) 840-2156

Fax To: Jim Pierce

Of: Town of Addison

Fax# 972-450-2834

Ref: _____

of Pages (including this sheet): 4

Fax From: Bruce Grantham

Comments:

This message is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone, and return the original message to us at the above address via the U.S. Postal Service. Thank you.



Engineers, Inc.

Grantham, Burge & Waldbauer

August 16, 2002

Mr. Jim Pierce, P.E.
Assistant Director of Public Works
Town of Addison
P. O. Box 9010
Addison, Texas 75001-9010

GBW No. 02-314

Ref: Addison Fire Station No. 1 Drainage Improvements
Recommendation of Award to Linder Construction, Inc.

Dear Jim:

On Thursday, August 8, 2002, the Town of Addison publicly opened six bids for the above referenced project. GBW Engineers, Inc. (GBW) tabulated the six bids (see attached bid tabulation) and the results are summarized below.

1.	Linder Construction, Inc.	\$ 73,917.50	No errors
2.	ZuZu Construction Company	\$ 78,115.00	No errors
3.	Rycon, Inc.	\$ 82,500.00	No errors
4.	Tri-Con Services, Inc.	\$ 89,095.00	No errors
5.	Aui Contractors, L.P.	\$103,320.00	No errors
6.	Can-Fer Construction Company	\$198,465.00	Item #109 was calculated incorrectly, increasing the bid by \$29,230.00.

Linder Construction, Inc. was the low bidder with a bid of \$73,917.50, while ZuZu Construction Company was the second low bidder with a bid of \$78,115.00. All of the refernces for Linder Construction, Inc. provided positive comments; consequently, we recommend that the City award the subject project to this firm in the amount of \$73,917.50.

Please contact me if you need any additional information.

Very truly yours,

Bruce R. Grantham, P.E.
Project Manager

Attachment

BG/gg

J:\WPDOCS\PROJECTS\ADDISON\02-314\Contractor Recommendation.LTR

BID TABULATION

August 16, 2002

Addison Fire Station No.1 Drainage Improvements Town of Addison

Item #	Quantity	Unit	Item	Linder Construction, Inc.		ZuZu Construction Company		Rycon Inc.	
				Unit Price	\$	Unit Price	\$	Unit Price	\$
101	1	L.S.	Moblization	\$15,700.00	\$15,700.00	\$8,000.00	\$8,000.00	\$13,040.00	\$13,040.00
102	10	C.Y.	Unclassified excavation for swale, including rock	\$48.00	\$480.00	\$120.00	\$1,200.00	\$500.00	\$5,000.00
103	250	L.F.	Full depth sawcut existing concrete	\$2.50	\$625.00	\$5.00	\$1,250.00	\$10.00	\$2,500.00
104	41	S.Y.	Remove & dispose of existing concrete sidewalk	\$5.50	\$225.50	\$85.00	\$3,485.00	\$25.00	\$1,025.00
105	50	S.Y.	Remove & dispose of concrete flume & metal cover	\$18.00	\$900.00	\$95.00	\$4,750.00	\$20.00	\$1,000.00
106	14	L.F.	Remove & dispose of existing brick landscape wall	\$15.00	\$210.00	\$50.00	\$700.00	\$20.00	\$280.00
107	43	S.Y.	Furnish & place 4" reinforced concrete sidewalk	\$54.00	\$2,322.00	\$55.00	\$2,365.00	\$125.00	\$5,375.00
108	194	L.F.	Furnish & install reinforced concrete flume	\$175.00	\$33,950.00	\$150.00	\$29,100.00	\$55.00	\$10,670.00
109	185	L.F.	Furnish & install 12" HDPE pipe	\$58.00	\$10,730.00	\$50.00	\$9,250.00	\$125.00	\$23,125.00
110	1	EA.	Furnish & install reinforced concrete grate inlet	\$760.00	\$760.00	\$1,800.00	\$1,800.00	\$2,500.00	\$2,500.00
111	3	EA.	Furnish & install reinforced concrete junction box	\$550.00	\$1,650.00	\$1,500.00	\$4,500.00	\$2,000.00	\$6,000.00
112	26	L.F.	Furnish & install brick ladscape wall to match	\$20.00	\$520.00	\$40.00	\$1,040.00	\$25.00	\$650.00
113	95	S.Y.	Furnish & install block sod within work zone	\$6.00	\$570.00	\$15.00	\$1,425.00	\$3.00	\$285.00
114	2	EA.	Adjust existing cleanouts	\$130.00	\$260.00	\$250.00	\$500.00	\$150.00	\$300.00
115	1	L.S.	Inspect, maintain, repair & test irrigation system	\$1,100.00	\$1,100.00	\$3,000.00	\$3,000.00	\$2,000.00	\$2,000.00
116	75	L.F.	Trench safety	\$13.00	\$975.00	\$10.00	\$750.00	\$50.00	\$3,750.00
117	1	L.S.	Lower existing water line	\$1,700.00	\$1,700.00	\$2,100.00	\$2,100.00	\$2,500.00	\$2,500.00
118	1	L.S.	Trim & maintain shrubs & trees in work zone	\$900.00	\$900.00	\$2,500.00	\$2,500.00	\$500.00	\$500.00
119	2	EA.	Plug existing 12" line	\$170.00	\$340.00	\$200.00	\$400.00	\$1,000.00	\$2,000.00
TOTALS:					\$73,917.50		\$78,115.00		\$82,500.00

PAGE 03/04
 KARI
 9728402156
 08/16/2002 13:39

BID TABULATION

August 16, 2002

Addison Fire Station No.1 Drainage Improvements Town of Addison

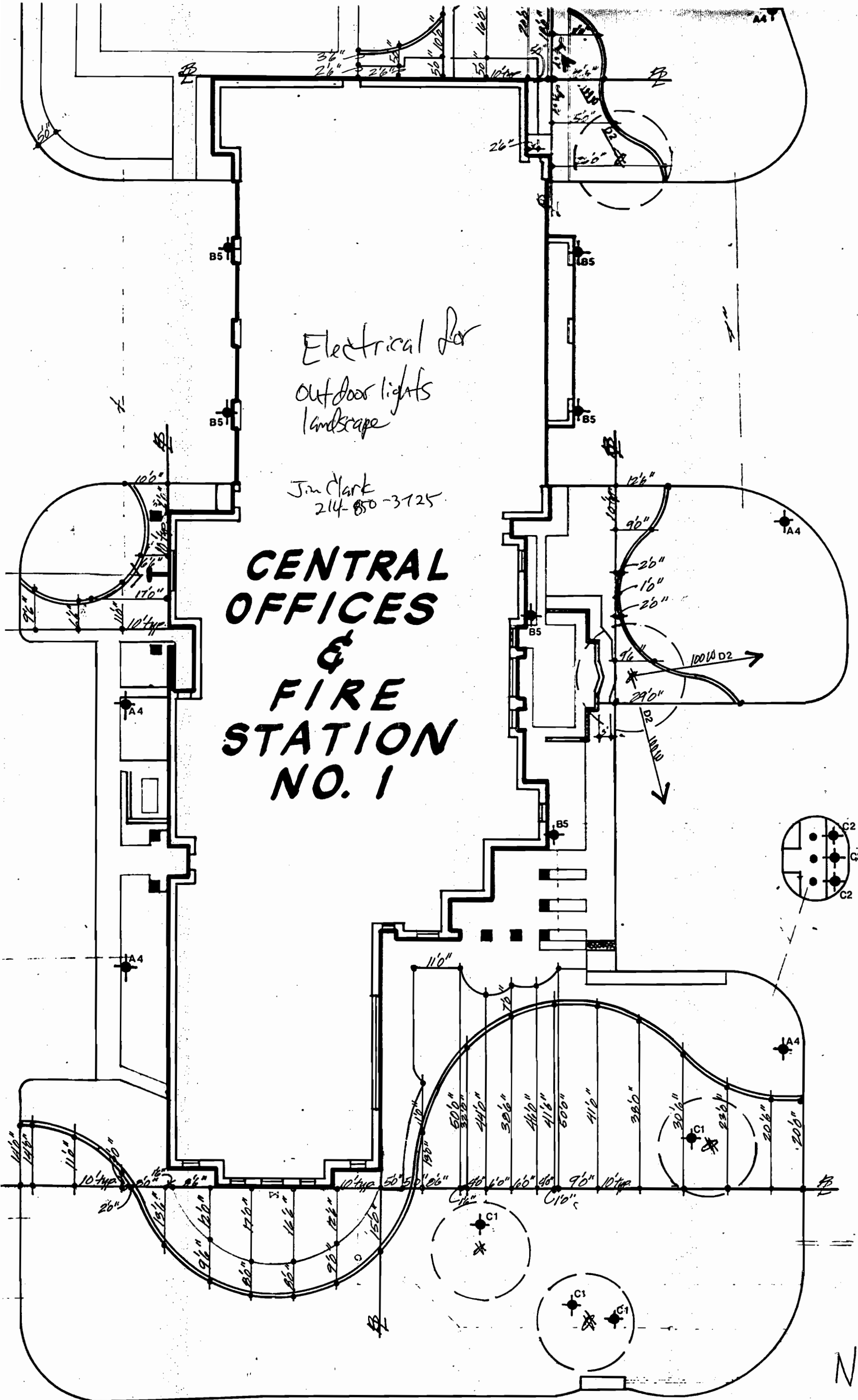
Item #	Quantity	Unit	Item	Tri-Con Services, Inc.		Aui Contractors, L.P.		Can-Fer Construction Company, Inc.	
				Unit Price	\$	Unit Price	\$	Unit Price	\$
101	1	L.S.	Mobilization	\$5,500.00	\$5,500.00	\$10,000.00	\$10,000.00	\$16,500.00	\$16,500.00
102	10	C.Y.	Unclassified excavation for swale, including rock	\$25.00	\$250.00	\$50.00	\$500.00	\$750.00	\$7,500.00
103	250	L.F.	Full depth sawcut existing concrete	\$5.00	\$1,250.00	\$6.00	\$1,500.00	\$5.00	\$1,250.00
104	41	S.Y.	Remove & dispose of existing concrete sidewalk	\$40.00	\$1,640.00	\$75.00	\$3,075.00	\$150.00	\$6,150.00
105	50	S.Y.	Remove & dispose of concrete flume & metal cover	\$50.00	\$2,500.00	\$85.00	\$4,250.00	\$175.00	\$8,750.00
106	14	L.F.	Remove & dispose of existing brick landscape wall	\$10.00	\$140.00	\$30.00	\$420.00	\$35.00	\$490.00
107	43	S.Y.	Furnish & place 4" reinforced concrete sidewalk	\$100.00	\$4,300.00	\$95.00	\$4,085.00	\$105.00	\$4,515.00
108	194	L.F.	Furnish & install reinforced concrete flume	\$150.00	\$29,100.00	\$275.00	\$53,350.00	\$181.00	\$35,114.00
109	185	L.F.	Furnish & install 12" HDPE pipe	\$100.00	\$18,500.00	\$60.00	\$11,100.00	\$185.00	\$34,225.00
110	1	EA.	Furnish & install reinforced concrete grate inlet	\$4,000.00	\$4,000.00	\$1,500.00	\$1,500.00	\$17,976.00	\$17,976.00
111	3	EA.	Furnish & install reinforced concrete junction box	\$4,000.00	\$12,000.00	\$1,400.00	\$4,200.00	\$6,800.00	\$20,400.00
112	26	L.F.	Furnish & install brick landscape wall to match	\$15.00	\$390.00	\$40.00	\$1,040.00	\$150.00	\$3,900.00
113	95	S.Y.	Furnish & install block sod within work zone	\$10.00	\$950.00	\$5.00	\$475.00	\$16.00	\$1,520.00
114	2	EA.	Adjust existing cleanouts	\$500.00	\$1,000.00	\$250.00	\$500.00	\$7,500.00	\$15,000.00
115	1	L.S.	Inspect, maintain, repair & test irrigation system	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$10,000.00	\$10,000.00
116	75	L.F.	Trench safety	\$1.00	\$75.00	\$3.00	\$225.00	\$1.00	\$75.00
117	1	L.S.	Lower existing water line	\$500.00	\$500.00	\$1,200.00	\$1,200.00	\$7,500.00	\$7,500.00
118	1	L.S.	Trim & maintain shrubs & trees in work zone	\$3,000.00	\$3,000.00	\$2,500.00	\$2,500.00	\$7,100.00	\$7,100.00
119	2	EA.	Plug existing 12" line	\$500.00	\$1,000.00	\$200.00	\$400.00	\$250.00	\$500.00
TOTALS:					\$89,095.00		\$103,320.00		\$198,465.00

Note: The bid submitted by Can-Fer Construction Company contained an error on item #109. The unit price was listed as \$185.00, however the total for that item was listed as \$4,995.00. With a quantity of 185 L.F., the correct total for item #109 would be \$34,225.00. Correcting this error results in an increase of \$29,230 to the total bid, from \$169,235.00 to \$198,465.00.

PAGE 04/04

KARI

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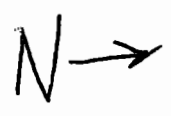
Electrical for
 outdoor lights
 landscape

Jim Clark
 214-850-3725

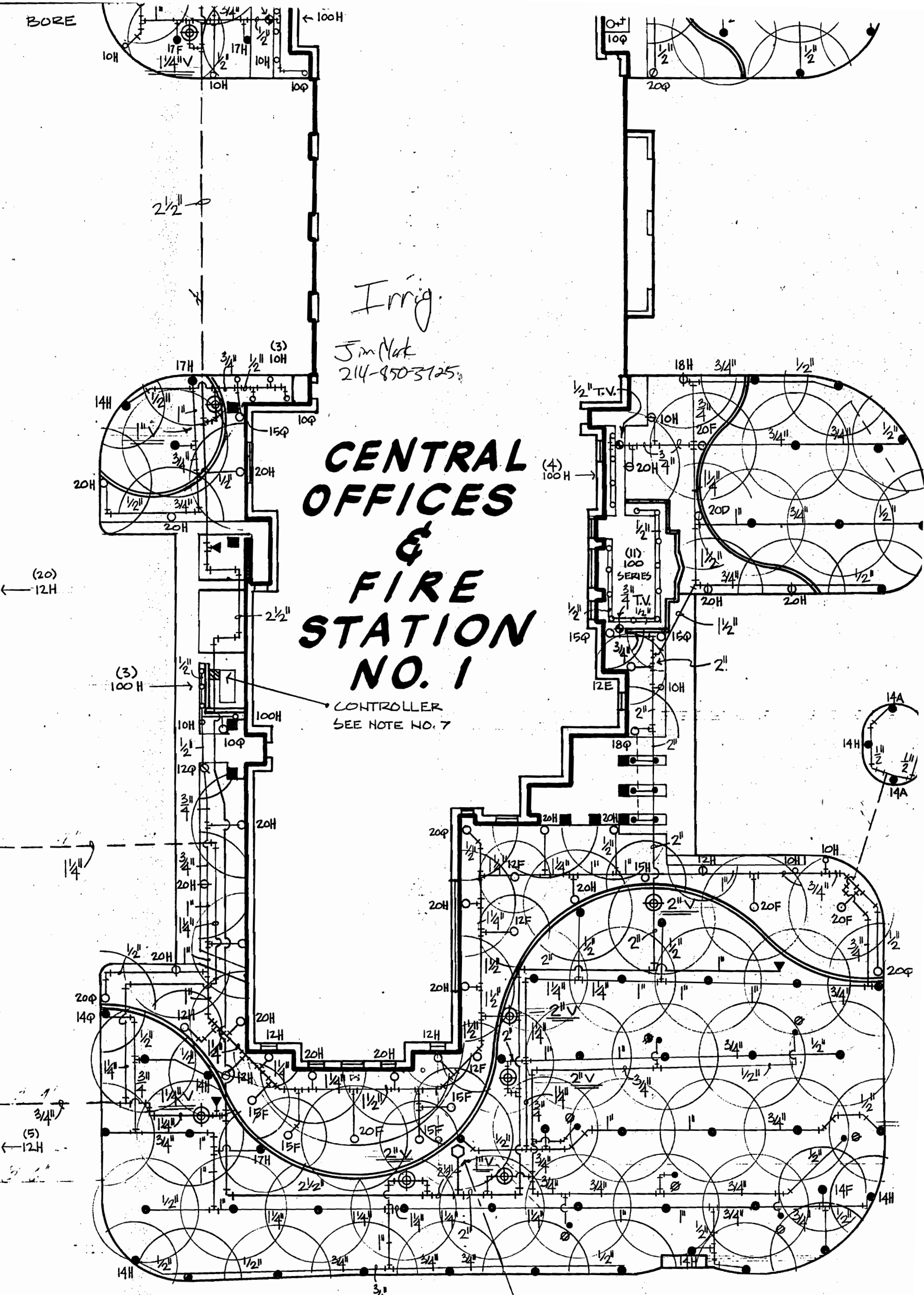
**CENTRAL
 OFFICES
 &
 FIRE
 STATION
 NO. 1**

AIRPORT PARKWAY

AIRPORT



BORE



Irrig.

Jim Mark
214-850-3125

CENTRAL OFFICES & FIRE STATION NO. 1

CONTROLLER
SEE NOTE NO. 7

POINT OF CONNECTION
SEE NOTE NO. 10

ADDISON



Engineers, Inc.

Grantham, Burge & Waldbauer

*Steve -
I approve these
& send them to Mark
Accords for payment.
I'll let you do the rest
one
jim*

INVOICE

Mr. Jim Pierce, P.E.
Town of Addison
16801 Westgrove Drive
Addison, Texas 75001

Invoice No.: 1771

Date: August 7, 2002

GBW Project No.: 02-314

PROJECT: Fire Station No. 1 Drainage Improvements

INVOICE SUMMARY

From 7/1/02 to 7/31/02

Total Contract Amount	\$ 14,995.00
Total Due This Invoice	\$ 679.00
Total Previous Invoices	\$ 12,692.60
<hr/>	
Total Billed to Date	\$ 13,371.60
Less Payments/Credits	(\$ 12,692.60)
<hr/>	
Total Amount Now Due	\$ 679.00
Amount This Invoice	\$ 679.00

*OK to pay
Jeffrey
8-15-02*

**Please Retain This
Page For Your Records**

Invoice No.: 1771
Date: August 7, 2002
Project: Fire Station No. 1 Drainage Improvements

1. Design Survey

Total Phase Amount	\$	3,204.00
100% complete		\$ 3,204.00

2. Engineering Services

Total Phase Amount	\$	9,002.00
100% complete		\$ 9,002.00

3. Bidding and Construction

Total Phase Amount	\$	2,289.00
40% complete		\$ 915.60

4. Reimbursables

Total Phase Amount	\$	500.00
50% complete		\$ 250.00

TOTAL BILLED TO DATE >>> \$ 13,371.60



Engineers, Inc.

Grantham, Burge & Waldbauer

Mr. Jim Pierce, P.E.
Town of Addison
16801 Westgrove Drive
Addison, Texas 75001

Invoice No.: 1771

Date: August 7, 2002

GBW Project No.: 02-314

PROJECT: Fire Station No. 1 Drainage Improvements

REMITTANCE PAGE:

Total Current Invoice \$ 679.00

TOTAL AMOUNT ENCLOSED \$ _____

Pay to the Order Of:

GBW Engineers, Inc.
1919 S. Shiloh Road
Suite 500
L.B. 27
Garland, Texas 75042

**Please Return This Page With Payment
For Prompt And Accurate Credit**

Facsimile Transmittal

Date: 7-29-02

From: **GBW Engineers, Inc.**

Fax To: Jim Pierce

1919 S. Shiloh Rd.

Suite 500, L.B. 27

Of: Town of Addison

Garland, Texas 75042

Tel (972) 840-1916

Fax# 972-450-2837

Fax (972) 840-2156

Ref: _____

of Pages (including this sheet): 4

Fax From: Bruce Grantham

Comments:

cc Mark Avedo
Glade Strickland

This message is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone, and return the original message to us at the above address via the U.S. Postal Service. Thank you.

**ADDENDUM NO. 1
July 29, 2002**

TOWN OF ADDISON

FIRE STATION NO. 1 DRAINAGE IMPROVEMENTS

This Addendum forms a part of the Contract Documents and Specifications. Acknowledge receipt of the Addendum in the space provided in Section PF, Proposal Summary Page PF-2, and on the outer envelope of Bid proposal. Failure to acknowledge receipt of this Addendum may subject Bidder to disqualification.

Bid Closing Date: August 8, 2002 at 2:00 p.m.

**** PLEASE NOTE THE PROPOSAL BID DATE IS CHANGED FROM WEDNESDAY, JULY 31, 2002 TO THURSDAY, AUGUST 8, 2002.**

Bid Submittal Address: Ms. Minok Suh, Purchasing Coordinator
Town of Addison Finance Building
5350 Belt Line Road
Addison, Texas

CONTRACT DOCUMENTS

1. Section AB: Advertisement for Bids and Section PF: Proposal Form

A. Page AB-2 and Page PF-3:

The proposal bid date is hereby changed from July 31, 2002 to Thursday, August 8, 2002 at 2:00 p.m.

2. Section MP: Measurement and Payment

Item 7. Remove/Replace Existing Concrete Channel or Flume

Add the following language:

“Install Neenah grate R-4990-DX (14-inch wide) or approved equal. Delete Neenah grate (Type A, 15x36, R-4575A).”

“This pay item shall include all excavation and trenching for the flume.”

Item 8. Sidewalk and Driveway Replacement

Add the following language:

“The unit price bid for sidewalk replacement shall include the cost of replacing the inlaid brick to match the existing brick type and pattern.”

Item 10. Tree Protection and Trimming

Add the following language:

"Tree removal shall be permitted, with prior approval from the Town of Addison, for those trees that fall within the project work zone."

3. Section PF: Proposal Form

Item No. 102

Reword item description to read as follows:

"Unclassified excavation for swale, including rock"

Item No. 107

Reword item description to read as follows:

"Furnish and install 4" thick reinforced concrete sidewalk, 4000 psi @ 28 days, including inlaid brick to match existing type and pattern"

Item No. 108

Reword item description to read as follows:

"Furnish and install reinforced concrete flume, 4000 psi @ 28 days, including Neenah grate R-4990-DX (14" wide) and patio curb"

4. Construction Plans; Sheets 1 of 2 and 2 of 2

Make the following revisions:

"Replace the 5-foot wide maximum construction work zone with a 10-foot wide construction work zone. Prior approval for additional work zone width must be obtained from the Town of Addison. The contractor shall not be required to replace the landscaping and trees that are removed within the construction zone. The work zone shall be graded to provide positive drainage to the flume and left in a loose earthen state. No seed or sod is required."

"There is an irrigation system in the work zone. Plans of this system, which the contractor must restore under Bid Item No. 115, are available for review by the contractors prior to the bid opening at the Town of Addison Service Center, 16801 Westgrove Drive, Addison, Texas."

"Revise the width of the concrete flume grate from 15" to 14". The concrete ledges on which the grate sits shall be revised from 2" to 1.5".

"The length of the concrete flumes shall be adjusted as outlined below such that standard grate lengths of 18" and 24" may be used exclusively:

1. Flume A:
 - Revise P.I. Sta. 0+07.76 to read Sta. 0+08
 - Revise P.I. Sta. 0+14.62 to read Sta. 0+14
 - Revise Sta. 0+36.90 to read Sta. 0+36
2. Flume B:
 - Revise Sta. 0+38.06 to read Stat 0+38

- 3. Flume C:
Revise Sta. 0+52.68 to read Sta. 0+52
- 4. Flume D:
Revise P.I. Sta. 0+11.10 to read Sta. 0+12
Revise P.I. Sta. 0+15.20 to read Sta. 0+16
Revise P.I. Sta. 0+45.82 to read Sta. 0+46
Revise P.I. Sta. 0+49.82 to read Sta. 0+50
Revise Sta. 0+59.28 to read Sta. 0+60

Add the following notes:

"The contractor may elect to tunnel under the brick wall at Sta. 0+57 on Line B."

"The inlets and junction boxes may be precast or cast-in-place."

"A monolithic pour is not required for the concrete flume."

Revise Typical Irrigation No. 1 to read as follows:

"The contractor may elect not to hire a licensed irrigator for the work covered in Item No. 115. However, in this event, the contractor must contact Ron Lee with the Town of Addison to inspect the repaired irrigation system before it is covered over with soil."

and approve

END OF ADDENDUM

The undersigned bidder hereby certifies that the Addendum No. 1 has been incorporated in the contract and if accepted becomes part of the contract.

BY: _____

Date: _____

Addison!

JIM PIERCE, P.E.
Assistant Public Works Director
(972) 450-2879
(972) 450-2837 FAX
jpierce@ci.addison.tx.us

Town of Addison 16801 Westgrove Dr. P.O. Box 9010, Addison, Texas 75001-9010

7-11-02

Mark - Bruce Grantham

Advises me this invoice
has not been paid. ⁵⁻³⁻⁰²

Did you send it on
to Judy?

Please check.

Thanks,

Jim



INVOICE

Mr. Jim Pierce, P.E.
Town of Addison
16801 Westgrove Drive
Addison, Texas 75001

Invoice No.: 1746

Date: July 2, 2002

GBW Project No.: 02-314

PROJECT: Fire Station No. 1 Drainage Improvements

INVOICE SUMMARY

From 6/1/02 to 6/30/02

Total Contract Amount	\$ 14,995.00
Total Due This Invoice	\$ 4,087.40
Total Previous Invoices	\$ 8,605.20
<hr/>	
Total Billed to Date	\$ 12,692.60
Less Payments/Credits	(\$ 4,691.70)
<hr/>	
Total Amount Now Due	\$ 8,000.90
Amount This Invoice	\$ 4,087.40

*OK to pay
J. Pierce
7-8-02*

**Please Retain This
Page For Your Records**

Invoice No.: 1746
Date: July 2, 2002
Project: Fire Station No. 1 Drainage Improvements

1. Design Survey

Total Phase Amount	\$	3,204.00
100% complete		\$ 3,204.00

2. Engineering Services

Total Phase Amount	\$	9,002.00
95% complete		\$ 8,551.90

3. Bidding and Construction

Total Phase Amount	\$	2,289.00
30% complete		\$ 686.70

4. Reimbursables

Total Phase Amount	\$	500.00
50% complete		\$ 250.00

TOTAL BILLED TO DATE >>> \$ 12,692.60



Engineers, Inc.

Grantham, Burge & Waldbauer

Mr. Jim Pierce, P.E.
Town of Addison
16801 Westgrove Drive
Addison, Texas 75001

Invoice No.: 1746

Date: July 2, 2002

GBW Project No.: 02-314

PROJECT: Fire Station No. 1 Drainage Improvements

REMITTANCE PAGE:

Total Current Invoice \$ 4,087.40

TOTAL AMOUNT ENCLOSED \$ _____

Pay to the Order Of:

GBW Engineers, Inc.
1919 S. Shiloh Road
Suite 500
L.B. 27
Garland, Texas 75042

**Please Return This Page With Payment
For Prompt And Accurate Credit**

Facsimile Transmittal

Date: 06/28/02

From: **GBW Engineers, Inc.**

Fax To: Jim Pierce / Minok Suh

1919 S. Shiloh Rd.

Suite 500, L.B. 27

Of: Addison

Garland, Texas 75042

Tel. (972) 840-1916

Fax# (972)4502834 / (972)4507096

Fax (972) 840-2156

Ref: Five Sta. No 1

of Pages (including this sheet): 2

Fax From: Bruce Grantham

Comments:

cc Mark Acevedo

**Fire Station No. 1 Drainage Improvements
Town of Addison**

Engineer's Opinion of Probable Cost

Item No.	Item Description	Units	Quantity	Unit Cost	Total Cost
101	Mobilization	LS	1	\$ 3,000.00	\$ 3,000.00
102	Unclassified Excavation	CY	10	\$ 50.00	\$ 500.00
103	Sawcut	LF	250	\$ 5.00	\$ 1,250.00
104	Remove/Dispose Concrete Sidewalk	SY	41	\$ 25.00	\$ 1,025.00
105	Remove/Dispose Concrete Flume & Cover	SY	50	\$ 20.00	\$ 1,000.00
106	Remove/Dispose Brick Landscape Wall	LF	14	\$ 20.00	\$ 280.00
107	4" Reinforced Concrete Sidewalk	SY	43	\$ 50.00	\$ 2,150.00
108	Reinforced Concrete Flume	LF	194	\$ 110.00	\$ 21,340.00
109	12" HDPE Pipe	LF	185	\$ 30.00	\$ 5,550.00
110	Reinforced Concrete Grate Inlet	Ea	1	\$ 3,500.00	\$ 3,500.00
111	Reinforced Concrete Junction Box	Ea	3	\$ 3,500.00	\$ 10,500.00
112	Brick Landscape Wall	LF	26	\$ 25.00	\$ 650.00
113	Block Sod	SY	95	\$ 7.00	\$ 665.00
114	Adjust Cleanouts	Ea	2	\$ 750.00	\$ 1,500.00
115	Maintain, Repair & Test Irrigation System	LS	1	\$ 2,500.00	\$ 2,500.00
116	Trench Safety	LF	75	\$ 5.00	\$ 375.00
117	Lower Existing Water Line	LS	1	\$ 3,000.00	\$ 3,000.00
118	Trim and Maintain Shrubs and Trees	LS	1	\$ 2,500.00	\$ 2,500.00
119	Plug Existing 12" Line	Ea	2	\$ 500.00	\$ 1,000.00
Sub-Total					\$ 62,285.00
20% Contingency					\$ 12,457.00
Total					\$ 74,742.00



INVOICE

Mr. Jim Pierce, P.E.
Town of Addison
16801 Westgrove Drive
Addison, Texas 75001

Invoice No.: 1727

Date: June 12, 2002

GBW Project No.: 02-314

PROJECT: Fire Station No. 1 Drainage Improvements

INVOICE SUMMARY

From 5/1/02 to 5/31/02

Total Contract Amount	\$ 14,995.00
Total Due This Invoice	\$ 3,150.70
Total Previous Invoices	\$ 5,454.50
<hr/>	
Total Billed to Date	\$ 8,605.20
Less Payments/Credits	(\$ 1,541.00)
<hr/>	
Total Amount Now Due	\$ 7,064.20
Amount This Invoice	\$ 3,150.70

Please Retain This Page For Your Records

Invoice No.: 1727
Date: June 12, 2002
Project: Fire Station No. 1 Drainage Improvements

1. Design Survey

Total Phase Amount	\$	3,204.00
100% complete		\$ 3,204.00

2. Engineering Services

Total Phase Amount	\$	9,002.00
60% complete		\$ 5,401.20

3. Bidding and Construction

Total Phase Amount	\$	2,289.00
0% complete		\$ 0.00

4. Reimbursables

Total Phase Amount	\$	500.00
0% complete		\$ 0.00

TOTAL BILLED TO DATE >>> \$ 8,605.20



Mr. Jim Pierce, P.E.
Town of Addison
16801 Westgrove Drive
Addison, Texas 75001

Invoice No.: 1727

Date: June 12, 2002

GBW Project No.: 02-314

PROJECT: Fire Station No. 1 Drainage Improvements

REMITTANCE PAGE:

Total Current Invoice \$ 3,150.70

TOTAL AMOUNT ENCLOSED \$ _____

Pay to the Order Of:

GBW Engineers, Inc.
1919 S. Shiloh Road
Suite 500
L.B. 27
Garland, Texas 75042

*OK to pay
Jeff
6-25-02*

**Please Return This Page With Payment
For Prompt And Accurate Credit**

Jim Pierce

From: Bruce Grantham [Bgrantham@gbwengineers.com]
Sent: Wednesday, June 12, 2002 9:07 AM
To: Jim Pierce
Subject: Fire Station No. 1. Notes

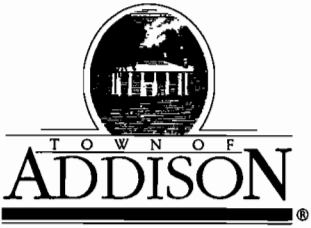
Jim:

The following are some notes regarding the Fire Station No. 1 Drainage Improvement Bid Documents which we submitted yesterday.

1. Due to the size of this project, we made the following changes to the Arapaho Road Phase 2 bid documents in order to make the bid process simpler:
 - No prebid conference.
 - No A + B bidding.
 - There is no construction contingency included in the bid schedule.
2. We provided a 2-foot wide emergency overflow through the landscape area for Flumes C and D which we are currently shown to be grassed. Is this okay with Slade? Other options would be to make it wider (for easier maintenance perhaps) or install concrete instead of grass.
3. We have specified 60 working days for the construction.
4. The Special Provisions call for the maintenance of the existing landscaping and irrigation, including any removal and replacement, to be subsidiary to other bid items. We may want to consider including lump sum bid items for landscaping and irrigation replacement respectively in order to emphasize to the contractors that this work is required.
5. We are crossing a water line with Line A. Could the Town provide us with an approximate depth on this line?

Please let me know if you have any questions regarding this project.

Regards, Bruce



Public Works / Engineering
 16801 Westgrove • P.O. Box 9010
 Addison, Texas 75001
 Telephone: (972) 450-2871 • Fax: (972) 450-2837

LETTER OF TRANSMITTAL

DATE	6-12-02	JOB NO.
ATTENTION		
RE:	Fire Station No 1 Drainage	

TO Mark Acvedo

GENTLEMAN:

WE ARE SENDING YOU

- Attached Under separate cover via _____ the following items:
 Shop Drawings Prints Plans Samples Specifications
 Copy of letter Change order _____

COPIES	DATE	NO.	DESCRIPTION
1			Letter Report Plans & Specs
1			

THESE ARE TRANSMITTED as checked below:

- For approval Approved as submitted Resubmit _____ copies for approval
 For your use Approved as noted Submit _____ copies for distribution
 As requested Returned for corrections Return _____ corrected prints
 For review and comment _____
 FOR BIDS DUE _____ 19____ PRINTS RETURNED AFTER LOAN TO US

REMARKS For review & comment for finalization

COPY TO _____

SIGNED: [Signature]

If enclosures are not as noted, please notify us at once.



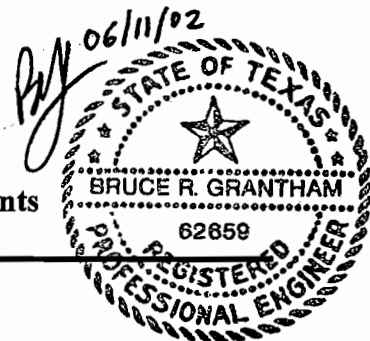
Engineers, Inc.

MEMO

1919 S. Shiloh Rd., Suite 500, LB 27, Garland, TX 75042

Date: April 24, 2002
To: Jim Pierce, P.E.
From: Bruce Grantham, P.E.
Re: Town of Addison Fire Station No. 1 Drainage Improvements

GBW No. 02-314



General

The main building of Fire Station No. 1 is located at the southwest corner of the intersection of Addison Road and Airport Parkway. Portions of the building, along the north and east sides, are subject to flooding during the heavy rain events. Through site visits, interviews with City staff, and a topographic survey, we have determined several alternatives which will alleviate the surface water flooding of the existing building. This design memo includes the information used to determine and design the alternatives.

Attached to this memo is an Exhibit which identifies the existing flooding locations, along with photographs taken of the site. The photos show existing flumes adjacent to the building in those areas which are subject to flooding.

Topographic Survey

On April 1, 2002, a topographic design survey of the property was performed by GBW. This survey picked up all visible above ground features, underground utilities as marked by DIGTESS, and provided 0.5-foot contours of the area of the property being studied. This survey was tied into the elevation of the recessed curb inlet located on Addison Road at the southeast corner of Addison Road and Airport Parkway. The elevation of this inlet was found on the Airport Parkway and Parking for Police Facility and Fire Station No. 1 plans dated May 9, 1985 (record set date). A benchmark was set at this inlet for the project.

Summary of Flooding Locations

Based on an interview with Deputy Chief Bill Hawley, the building experiences more frequent and severe flooding at the east end nearest Addison Road. Two offices and the conference room are located at this end of the building. As the photos show, this area is drained by a shallow flume directly adjacent to the building.

Three other locations on the north side of the building also experience less frequent and severe flooding. These three areas include the recreation room and kitchen areas, which are right off the private patio, the administration area which is also located at the east end of the building, and the entry area. According to Chief Hawley, the flooding of the entry area occurs after a major storm event. The other two locations on the north side also flood during a major storm event.

Alternative Sources of Flooding

The alternatives presented in the design memo will focus on keeping surface runoff from entering the building. However, during the interview with Chief Hawley, other possible sources of water were discussed and are summarized below.

It appeared that some rainwater at the east end of the building may also be coming in through the window frames in the offices and conference rooms. There was some damage on the inside walls below the windows to support this premise. It would be difficult to determine how much water is coming in through the window frames unless the flooding locations were closely observed during a heavy rain.

Chief Hawley also indicated that the entry area seems to receive rainwater after a storm. On the exterior of the building in this area, there is a roof drain within the wall leading to a down-spout which discharges into the flume. In addition to the roof drain, there is an overflow scupper. There is a possibility that water could be entering the building in the entry area through one of these drainage devices; however, there is no physical evidence of this occurring.

Primary Source of Flooding

Based on the information gathered, it appears that the primary factor influencing the drainage entering the building is the lack of difference between the finished floor elevation and the elevation of the exterior flumes and landscaping. In all the flooding areas, the building and flume elevations differ by less than one foot, with no positive drainage away from the building. As a result, it is highly likely that water ponds against the building foundation causing seepage into the adjacent rooms.

The goal of the alternatives presented in this design memo is to provide positive drainage away from the building and eliminate the ponding of water against the foundation.

Alternative Solutions

This section breaks the design into two areas: the recreation room/kitchen area and the east end. A description of the existing conditions and the alternative solutions are provided for each area.

Recreation room/Kitchen area - Flume A

Existing Conditions

- Flume A is located directly adjacent to the building where there are floor to ceiling windows.
- The existing flume, which drains to the parking lot, varies in depth between 0.2' and 0.3', whereas the width varies from 1' to 2'.
- The adjacent private concrete patio drains to a screening wall which has two 0.5" to 1" holes in the bottom for drainage. Landscaped ground on the opposite side of the wall is at the same elevation as the patio. This lack of adequate drainage backs water up several inches deep on the patio.
- The flume appears to drain direct rainfall, overflow runoff from building, and back-up runoff from the patio.

- Water entering the building appears to be from the “splash-up” action of the runoff hitting the shallow flume. The attached pictures show the close relation of the windows and flume elevation, with only the top of curb separating the two.

Proposed Alternative 1 - Most Disruptive

- Remove the concrete patio, the flume portion adjacent to building, the brick screening wall, and the existing landscaping bushes on the opposite side of the screening wall.
- Re-grade the area to completely drain away from building.
- Rebuild the concrete patio and screening wall. The bottom of the screening wall will have 2" openings every 12" for drainage. On the opposite side of the screening wall, construct a concrete flume which will carry the flow to the parking lot. Replace landscaping on the opposite side of the flume. The flume will be sized to carry the flow.
- This alternative takes the flow away from the building and provides positive drainage to the parking lot.

Proposed Alternative 2 - Least Disruptive

- Remove the existing flume.
- Replace it with a flume approximately 3' wide, and 1.5' deep below the window elevation, with a slope to direct the splash away from building.
- For safety, a concrete wall 6" to 12" in height or a decorative wrought iron fence could be built between the patio and the new flume. In addition, a grate can cover the flume which will add safety and will provide a more aesthetic appearance for the patio area.
- This flume would drain to an inlet located adjacent to the parking lot sidewalk which will connect into an underground system. This underground system is used in Alternative 2 of the east end system. It will drain to the existing storm sewer system in Addison Road.
- This alternative takes flow away from the building and provides positive drainage while being the least disruptive to the existing patio.

East End - Flumes B, C, and D

Existing Conditions

- The flumes providing drainage to the east end of the building and property are located directly adjacent to the building, with a top of curb at approximately the same elevation as the finish floor of the building.
- Opposite the building, the flumes are bordered by extensive landscaping. As the attached photographs illustrate, at Flume D, the jasmine ground cover extends as a barrier, 6" to 12" above the flume. Flumes B and C are surrounded by mature, dense shrubs which extend to the edge of the flumes.
- The windows along Flume C are floor to ceiling windows. Those along Flume D do not extend to the floor.
- Flume B collects drainage from the roof down-spouts, direct rainfall, and runoff from the landscaped area. This flume drains to the parking lot.
- Flume C and D collect drainage from direct rainfall and runoff from the landscaped areas. Both of these flumes are drained by a 12" PVC pipe located at the northwest corner of the intersection of these flumes. This PVC pipe is

connected into the Addison Road storm sewer system. The opening of the PVC pipe is covered by a metal grate which is cleaned of debris periodically by the employees of the fire station.

- Water appears to enter the building from Flume D due to lack of elevation difference between the flume and finished floor. At Flume C, water appears to enter the windows possibly from the same “splash-up” effect as Flume A, as well as from a lack of elevation difference.

Proposed Alternative 1 - Most Disruptive

- Re-grade the yard adjacent to the east end of the building. Remove the flumes and begin the re-grading at the edge of the building approximately 0.75' below the finish floor and tie into the existing sidewalk of Addison Road. This would not include the area of the mature trees which is located on a small hill at the northeast corner of the property. The grading should have positive drainage away from the building in all locations.
- Re-landscape the yard area, assuring that the landscape remains lower than the finished floor as indicated in the initial grading. Care should be taken that the landscaping and edging chosen for the yard does not encourage flow to back up against the building foundation.
- The down-spouts should drain into concrete pads which direct the flow away from the building.
- The existing irrigation system would be salvaged as much as possible and replaced where it can not be salvaged.
- This alternative directs water away from the building, provides positive drainage, and lowers the adjacent ground elevation.

Proposed Alternative 2 - Least Disruptive

- This alternative is similar to Alternative 2 for Flume A. A deeper, wider flume would be constructed in place of the existing shallow flume. The existing landscaping would be minimally disturbed.
- The flumes would be connected into an underground system that would drain into the existing Addison Road storm sewer system. Flumes A through D, as described for proposed conditions, would be connected to this system.
- A wye inlet with an aesthetically acceptable cover would also be installed on the opposite side of the dense bushes to drain the low area of the east yard. During all of the field visits, this area seemed to be saturated.
- There would be some impact to the existing irrigation system; however, any damage would be corrected during construction.
- Because this area is not as visible, grates over the flume may not be required for aesthetic purposes, with the exception of Flume B. Flume B is located at the entry to the building creating a safety and aesthetic justification for the grates.
- This alternative moves the drainage from the finished floor elevation and provides positive drainage away from the building.

Summary

The attached exhibit illustrates the Alternative 2 concept for both areas. It shows the conceptual cross-section of the proposed flumes and the underground system which would take the flow to the Addison Road storm sewer system. The existing 10' recessed inlet being proposed as the tie-in point is located at the upstream end of the Addison Road system and is drained by an 18" RCP at 0.65% to the trunk line. The 18" RCP pipe can carry approximately 8.5 cfs which correlates to just over 1 acre of drainage area, assuming there is no backwater from the trunk line. After the proposed alternative 2 improvements, the total area at this inlet would be less than 0.5 acres which would contribute no more than 4.0 cfs to the 18" RCP. Alternative 1 does not propose to change the drainage areas of the inlets.

Both of the alternatives presented above move the water away from the finished floor elevation of the building and provide positive drainage. The main difference between the two alternatives is the amount of disruption of the existing grounds.

GBW has prepared an Opinion of Probable Costs for Alternative 1 and 2 of \$49,140 and \$48,096 respectively.

**Fire Station No. 1 Drainage Improvements
Town of Addison**

Engineer's Opinion of Probable Cost

Proposed Alternative No. 1 - Most Disruptive

Item No.	Item Description	Units	Quantity	Unit Cost	Total Cost
1	Concrete Flume Removal	SY	50	\$ 10.00	\$ 500.00
2	Concrete Patio Removal	SY	40	\$ 10.00	\$ 400.00
3	Brick Screening Wall Removal	SF	550	\$ 5.00	\$ 2,750.00
4	Earthwork (grading)	CY	750	\$ 15.00	\$ 11,250.00
5	Irrigation System Repair	LS	1	\$ 10,000.00	\$ 10,000.00
6	Remove / Replace Landscaping	LS	1	\$ 15,000.00	\$ 15,000.00
7	Concrete Flume Construction	SF	150	\$ 7.00	\$ 1,050.00
Sub-Total					\$ 40,950.00
20% Contingency					\$ 8,190.00
Total					\$ 49,140.00

Proposed Alternative No. 2 - Least Disruptive

Item No.	Item Description	Units	Quantity	Unit Cost	Total Cost
1	Concrete Flume Removal	SY	50	\$ 10.00	\$ 500.00
2	Concrete Flume Construction	SF	1065	\$ 7.00	\$ 7,455.00
3	Grate	SF	120	\$ 10.00	\$ 1,200.00
4	12" Concrete Wall	LF	23	\$ 15.00	\$ 345.00
5	Wye Inlet	EA	1	\$ 3,500.00	\$ 3,500.00
6	Special Inlet	EA	3	\$ 3,500.00	\$ 10,500.00
7	18" PVC Drainage Pipe and Fittings	LF	190	\$ 45.00	\$ 8,550.00
8	Grade Swale	CY	8	\$ 15.00	\$ 120.00
9	Irrigation System Repair	LS	1	\$ 2,500.00	\$ 2,500.00
10	Bermuda Sod	SY	50	\$ 5.00	\$ 250.00
11	Reinforced Concrete Sidewalk	SF	270	\$ 8.00	\$ 2,160.00
12	Miscellaneous Landscape Repair	LS	1	\$ 3,000.00	\$ 3,000.00
Sub-Total					\$ 40,080.00
20% Contingency					\$ 8,016.00
Total					\$ 48,096.00

Excavation subsidiary to flume construction



Photo 1 - Looking at Front Entry of Fire Station No. 1

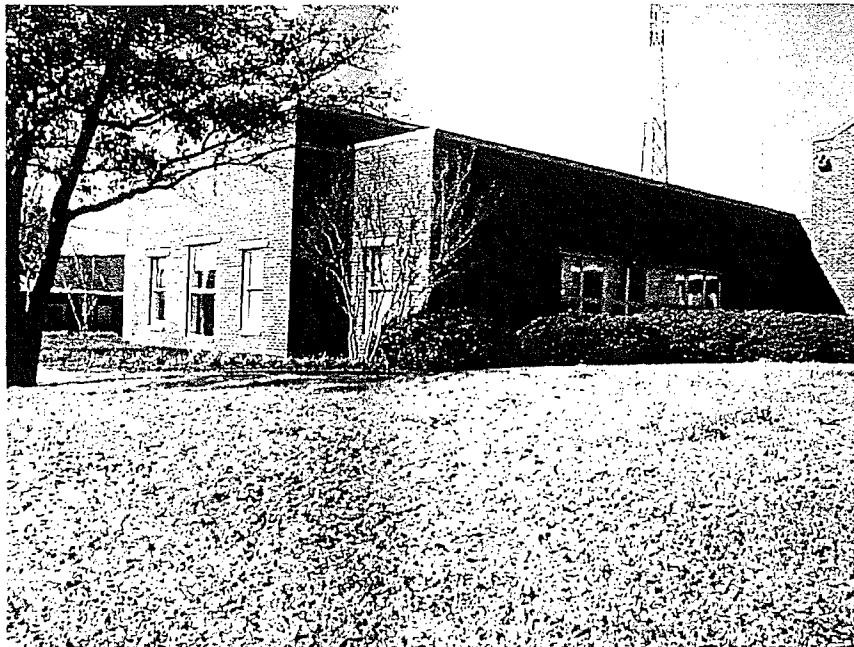


Photo 2 - Looking at East End of Building



Photo 3 - Flume A, Recreation / Kitchen Area



Photo 4 - Flume A, Recreation / Kitchen Area



Photo 5 - Flume B, Entry Area

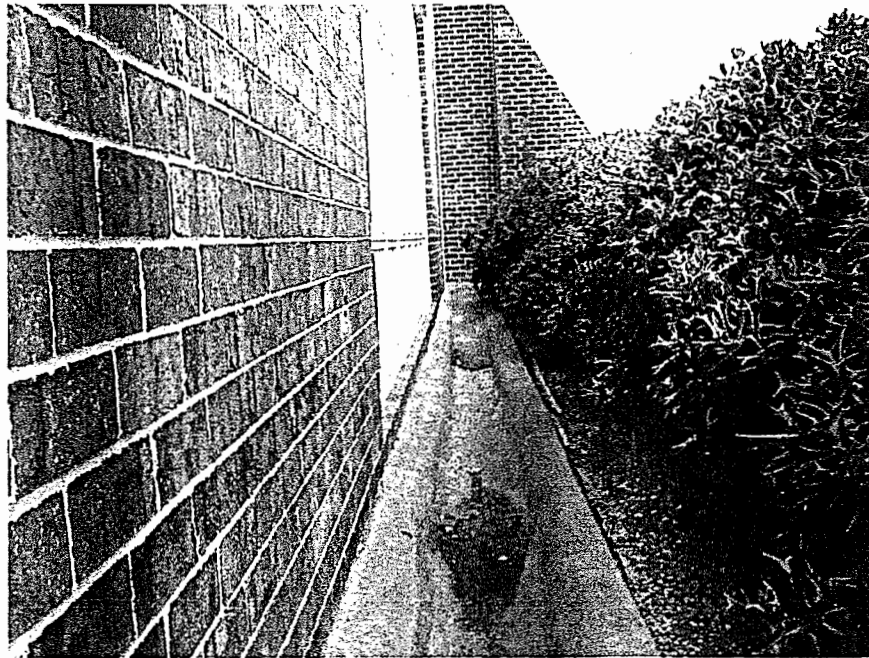


Photo 6 - Flume C, Outside of the Administration Area



Photo 7 - Grate Cover over Flume C & D Outfall (12" PVC)

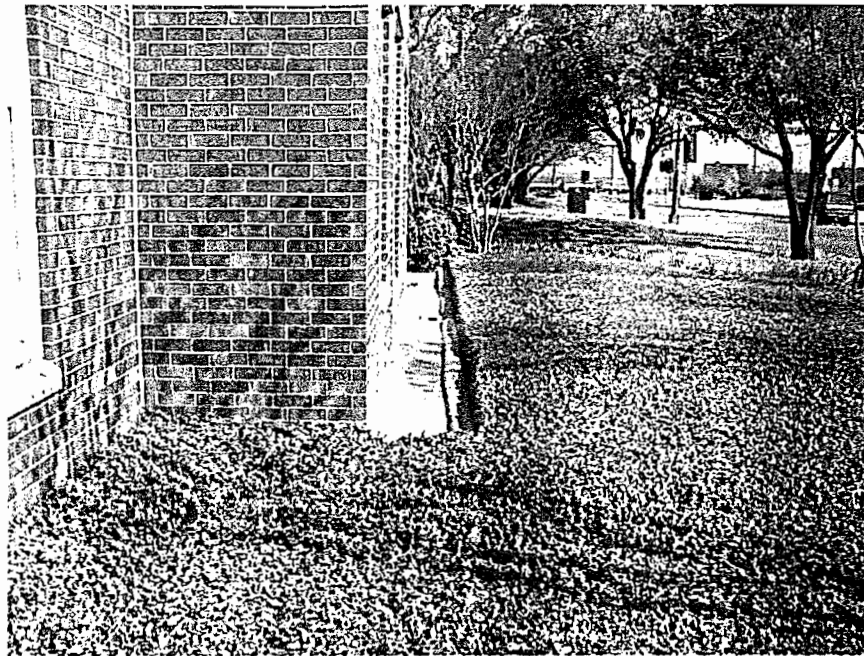


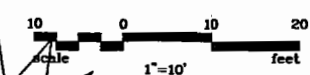
Photo 8 - Flume D, Outside of the Office and Conference Room



Photo 9 - Flume D, Showing Wall of Jasmine Ground Cover

CURVE DATA:					
NUMBER	RADIUS	DELTA	LENGTH	CORD BEARING	CHORD LENGTH
C1	35.00	45°00'00"	27.49	N 67°10'14" W	26.79
C2	35.00	45°27'50"	27.77	N 67°24'09" W	27.05

NO.	DATE	REVISION	APPROV.
1			
2			
3			

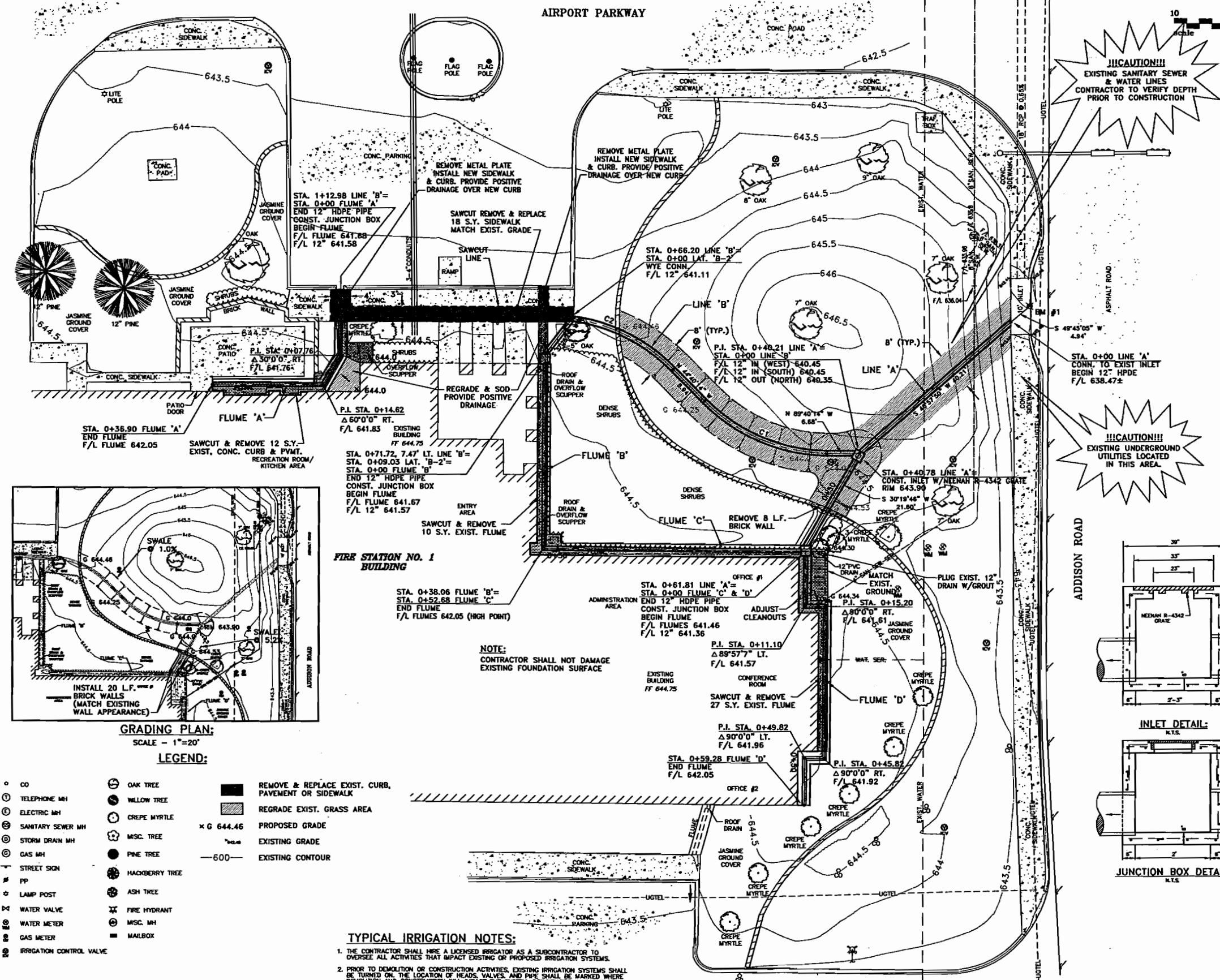


GENERAL NOTES:

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE TOWN OF ADDISON STANDARDS AND SPECIFICATIONS AND THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENT (NCTCOG) STANDARDS AND SPECIFICATIONS, EXCEPT AS NOTED. IN THE EVENT OF A CONFLICT, THE TOWN OF ADDISON STANDARDS AND SPECIFICATIONS SHALL GOVERN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PUBLIC SAFETY DURING CONSTRUCTION AND WILL PROVIDE THE NECESSARY TRAFFIC BARRICADES AND WARNING SIGNS TO PROTECT THE CONSTRUCTION SITE. ALL BARRICADES, WARNING SIGNS, LIGHTS, DEVICES, ETC. FOR THE GUIDANCE AND PROTECTION OF TRAFFIC AND PEDESTRIANS MUST CONFORM TO THE 1986 TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AS CURRENTLY AMENDED, BY THE TEXAS DEPARTMENT OF TRANSPORTATION. NO SEPARATE PAY ITEM.
- NO PERSON SHALL OPEN, TURN OFF, INTERFERE WITH, ATTACH ANY PIPE OR HOSE TO OR TAP ANY WATER MAIN BELONGING TO THE TOWN UNLESS DULY AUTHORIZED TO DO SO BY THE TOWN OF ADDISON PUBLIC WORKS DEPARTMENT. ARRANGEMENTS FOR CONSTRUCTION WATER SHALL BE MADE THROUGH THE TOWN OF ADDISON PUBLIC WORKS DEPARTMENT.
- CONTRACTOR SHALL MAINTAIN ADEQUATE SANITARY FACILITIES FOR USE BY WORKERS THROUGHOUT CONSTRUCTION.
- NO TRAFFIC SIGNS ARE TO BE RELOCATED OR REMOVED WITHOUT PRIOR APPROVAL OF THE TOWN OF ADDISON PUBLIC WORKS DEPARTMENT.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE, ANY DAMAGE TO EXISTING FACILITIES RESULTING FROM CONSTRUCTION WORK SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THESE PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENT OR REPRESENTATIVES IN PERFORMANCE OF THE WORK. THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN NEAT AND ACCURATE PLANS OF RECORD.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE SITE DRAINAGE THROUGHOUT THE DURATION OF THIS PROJECT.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS BEFORE CONSTRUCTION BEGINS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THAT ELECTRIC POWER AND TELEPHONE POLES ARE NOT DISTURBED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL KEEP EXCAVATED TRENCHES FREE OF GROUNDWATER DURING CONSTRUCTION. IF NECESSARY, THE CONTRACTOR SHALL UTILIZE DEWATERING IN ORDER TO CONTROL GROUNDWATER DURING CONSTRUCTION SUCH THAT IT DOES NOT AFFECT HIS CONSTRUCTION WORK. (NO SEPARATE PAY ITEM)
- EXISTING FACILITIES ARE SHOWN IN APPROXIMATE LOCATIONS PER INFORMATION AND RECORDS AVAILABLE. CONTRACTOR SHALL UNCOVER AND VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL KEEP PROJECT WORK SITE CLEAN AND ORDERLY. IT WILL BE UNACCEPTABLE TO ALLOW TRASH TO BLOW ONTO ADJACENT PROPERTIES. STRICT ATTENTION WILL BE PAID TO THIS ITEM. IF CONTRACTOR FAILS TO ADHERE TO THIS STIPULATION, OWNER RESERVES THE RIGHT TO STOP WORK UNTIL TRASH IS CLEANED UP. THIS STOPPAGE OF WORK WILL NOT EXTEND THE ORIGINAL CONTRACT TIME.

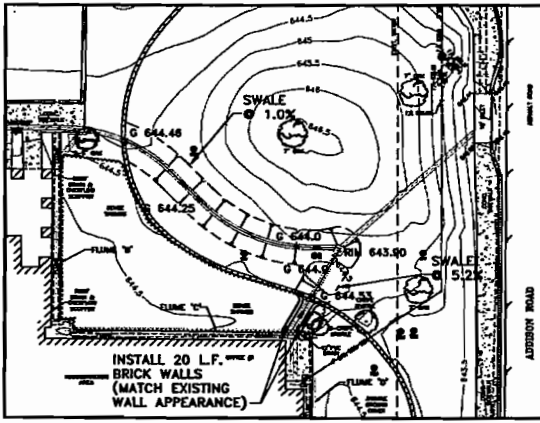
GENERAL PAVING NOTES:

- PRIOR TO FINAL ACCEPTANCE, ALL PAVT. SURFACES SHALL BE CLEARED OF ALL DISCOLORATION SUCH AS TIRE MARKS OR OTHER DISFIGUREMENT.
- THE CONTRACTOR SHALL BEGIN CONSTRUCTION WITHIN FIVE (5) CALENDAR DAYS OF THE ISSUANCE OF THE NOTICE TO PROCEED AND GIVE NOTICE TO THE TOWN IN WRITING, BEFORE WORK BEGINS ON THE PROJECT.
- SUBGRADES SHALL BE PROOF ROLLED, NO ADDITIONAL COMPENSATION SHALL BE PAID FOR PROOF ROLLING. IT SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS.
- THE CONTRACTOR SHALL FURNISH, AT HIS OWN COST, THE FOLLOWING TESTING SERVICES BY A REPUTABLE INDEPENDENT TESTING LABORATORY APPROVED BY THE TOWN: (A) FIELD DENSITY TESTS OF SUBGRADE OR BASE AT LOCATIONS SPECIFIED BY THE INSPECTOR; (B) PAVEMENT TESTING DONE ACCORDING TO SECTION 5.6.6, PAVEMENT TESTING, OF THE NCTCOG SPECIFICATIONS (COMPRESSIVE STRENGTH);
- THE CONTRACTOR SHALL PAY EXTRA ATTENTION TO ITEM 6.2.3 "BACKFILL" OF THE NCTCOG SPECIFICATIONS. THE OWNER WILL EXPECT ALL TRENCHES TO BE BACKFILLED WITH PROPER CARE AND ANY SETTLEMENT TO BE REMEDIATED IN A TIMELY FASHION.



!!!CAUTION!!!
EXISTING SANITARY SEWER & WATER LINES
CONTRACTOR TO VERIFY DEPTH
PRIOR TO CONSTRUCTION

!!!CAUTION!!!
EXISTING UNDERGROUND UTILITIES LOCATED
IN THIS AREA.



GRADING PLAN:
SCALE - 1"=20'

LEGEND:

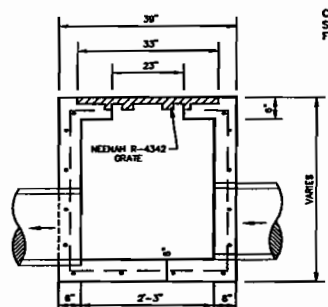
- | | | |
|----------------------------|------------------|--|
| ○ CO | ○ OAK TREE | ■ REMOVE & REPLACE EXIST. CURB, PAVEMENT OR SIDEWALK |
| ⊙ TELEPHONE MH | ○ WILLOW TREE | ▨ REGRADE EXIST. GRASS AREA |
| ⊙ ELECTRIC MH | ○ CREPE MYRTLE | × G 644.46 PROPOSED GRADE |
| ⊙ SANITARY SEWER MH | ○ MISC. TREE | — 600 — EXISTING GRADE |
| ⊙ STORM DRAIN MH | ○ PINE TREE | — 600 — EXISTING CONTOUR |
| ⊙ GAS MH | ○ HACKBERRY TREE | |
| ⊙ STREET SIGN | ○ ASH TREE | |
| ⊙ LAMP POST | ○ FIRE HYDRANT | |
| ⊙ WATER VALVE | ○ MISC. MH | |
| ⊙ WATER METER | ○ MAILBOX | |
| ⊙ GAS METER | | |
| ⊙ IRRIGATION CONTROL VALVE | | |

TYPICAL IRRIGATION NOTES:

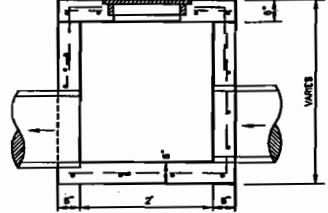
- THE CONTRACTOR SHALL HIRE A LICENSED IRRIGATOR AS A SUBCONTRACTOR TO OVERSEE ALL ACTIVITIES THAT IMPACT EXISTING OR PROPOSED IRRIGATION SYSTEMS.
- PRIOR TO DEMOLITION OR CONSTRUCTION ACTIVITIES, EXISTING IRRIGATION SYSTEMS SHALL BE TURNED ON. THE LOCATION OF HEADS, VALVES, AND PIPE SHALL BE MARKED WHERE DEMOLITION AND CONSTRUCTION WILL IMPACT THE SYSTEM. DEPENDENCIES IN THE SYSTEM SHALL BE NOTED AND REPORTED TO THE SYSTEM OWNER. A PHOTOGRAPHIC OR VIDEO RECORD SHALL BE MADE IF APPROPRIATE.
- PIPPING SHALL BE CUT, CAPPED AND MARKED AT THE LIMITS OF CONSTRUCTION.
- AT THE COMPLETION OF CONSTRUCTION, THE LICENSED IRRIGATOR SHALL RESTORE AND TEST THE IRRIGATION SYSTEM FOR PROPER FUNCTION. THE TEST SHALL BE CONDUCTED IN THE PRESENCE OF THE TOWN'S PUBLIC WORKS INSPECTOR AND THE SYSTEM OWNER.
- MAINTAIN/REPAIR EXISTING IRRIGATION SYSTEMS TO ENSURE WATERING OCCURS ON EXISTING GRASS AND LANDSCAPING.

BENCHMARK:

- ["] FOUND ON C/L INLET, WEST SIDE OF ADDISON RD. SOUTHWEST CORNER OF THE INTERSECTION OF AIRPORT PKWY. AND ADDISON RD. ELEV. = 642.53 (PER PLAN SHEET 4 OF AIRPORT PKWY. PLANS.)
N = 4955.8037
E = 5062.3745



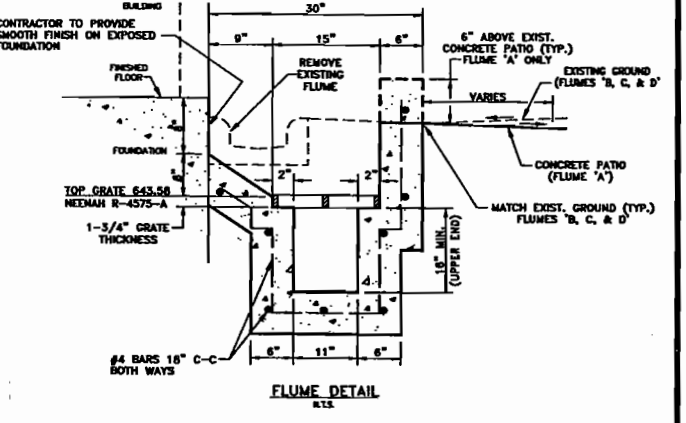
INLET DETAIL:
N.T.S.



FLUME DETAIL:
N.T.S.



JUNCTION BOX DETAIL:
N.T.S.



NOTES:

- ALL LAPS AND EXTENSIONS OF REINFORCING BARS SHALL BE 36 BAR DIAMETERS UNLESS NOTED OTHERWISE.
- TACK WELD GRATES IN PLACE.
- PIPE MAY BE PLACED IN ANY WALL, BUT SHALL NOT ENTER ANY CORNER OR BOTTOM.
- CONC. SHALL BE A MIN. OF 4,000 P.S.I.

DATE: JUNE, 2002	SCALE: 1"=10'	JOB NO.: 02-314
DRAWN: GBW	DESIGN: BRG	REVIEWED: DWG: 314DRNPLN

**ADDISON FIRE STATION NO. 1
DRAINAGE IMPROVEMENTS
STORM SEWER PLAN**

TOWN OF ADDISON

Grantham, Burge & Waldbauer
Engineers, Inc.
1919 S. SHELTON ROAD, SUITE 500, L.B. 27 GARLAND, TEXAS 75042
817.240.1916 (TEL)
817.240.2156 (FAX)

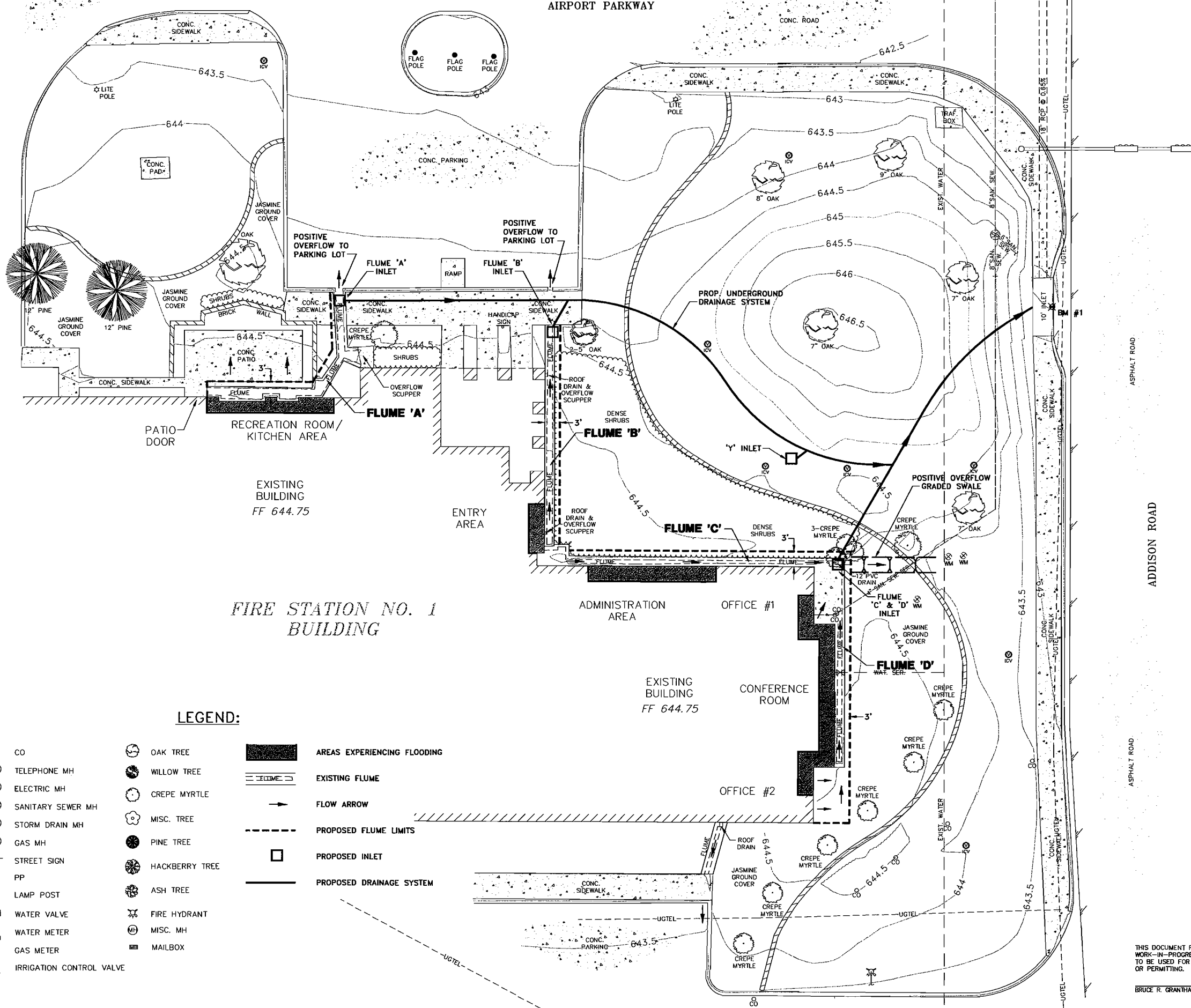
SHT. 1
OF 2

THIS DOCUMENT REPRESENTS WORK-IN-PROGRESS AND IS NOT TO BE USED FOR CONSTRUCTION OR PERMITTING.
BRUCE R. GRANTHAM TEXAS P.E. NO. 62659

AIRPORT PARKWAY



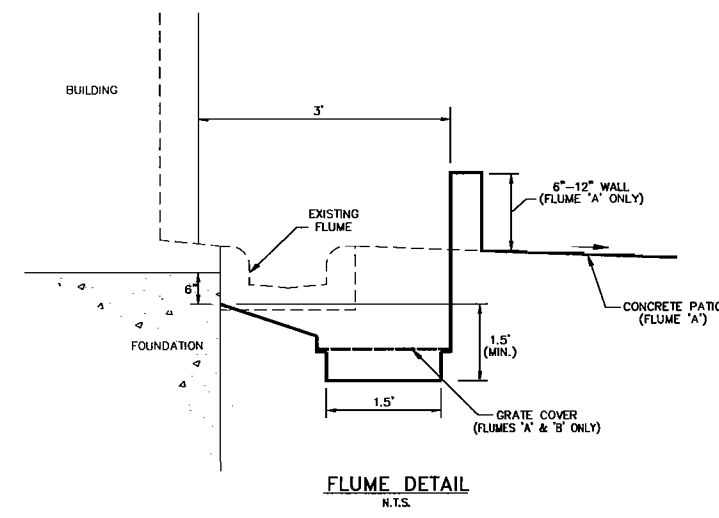
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scale 1"=10' feet



FIRE STATION NO. 1
BUILDING

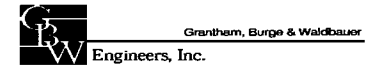
LEGEND:

- CO
- ① TELEPHONE MH
- ⓔ ELECTRIC MH
- Ⓢ SANITARY SEWER MH
- Ⓣ STORM DRAIN MH
- ⓐ GAS MH
- STREET SIGN
- PP LAMP POST
- ⊗ WATER VALVE
- ⊗ WM WATER METER
- ⊗ GM GAS METER
- ⊗ ICV IRRIGATION CONTROL VALVE
- OAK TREE
- WILLOW TREE
- CREPE MYRTLE
- MISC. TREE
- PINE TREE
- HACKBERRY TREE
- ASH TREE
- FIRE HYDRANT
- MISC. MH
- MAILBOX
- AREAS EXPERIENCING FLOODING
- EXISTING FLUME
- FLOW ARROW
- - - PROPOSED FLUME LIMITS
- PROPOSED INLET
- PROPOSED DRAINAGE SYSTEM



FIRE STATION NO. 1
PROPOSED ALTERNATE NO. 2 SCHEMATIC

THIS DOCUMENT REPRESENTS
WORK-IN-PROGRESS AND IS NOT
TO BE USED FOR CONSTRUCTION
OR PERMITTING.
BRUCE R. GRANTHAM TEXAS P.E. NO. 62659





INVOICE

Mr. Jim Pierce, P.E.
Town of Addison
16801 Westgrove Drive
Addison, Texas 75001

Invoice No.: 1684
Date: May 3, 2002
GBW Project No.: 02-314

PROJECT: Fire Station No. 1 Drainage Improvements

INVOICE SUMMARY

From 4/1/02 to 4/30/02

Total Contract Amount	\$ 14,995.00
Total Due This Invoice	\$ 3,913.50
Total Previous Invoices	\$ 1,541.00
<hr/>	
Total Billed to Date	\$ 5,454.50
Less Payments/Credits	(\$ 1,541.00)
<hr/>	
Total Amount Now Due	\$ 3,913.50
Amount This Invoice	\$ 3,913.50

*OK to pay
J. Pierce
5-8-02*

**Please Retain This
Page For Your Records**

Invoice No.: 1684
Date: May 3, 2002
Project: Fire Station No. 1 Drainage Improvements

1. Design Survey

Total Phase Amount	\$	3,204.00
100% complete		\$ 3,204.00

2. Engineering Services

Total Phase Amount	\$	9,002.00
25% complete		\$ 2,250.50

3. Bidding and Construction

Total Phase Amount	\$	2,289.00
0% complete		\$ 0.00

4. Reimbursables

Total Phase Amount	\$	500.00
0% complete		\$ 0.00

TOTAL BILLED TO DATE >>> \$ 5,454.50



Engineers, Inc.

Grantham, Burge & Waldbauer

Mr. Jim Pierce, P.E.
Town of Addison
16801 Westgrove Drive
Addison, Texas 75001

Invoice No.: 1684

Date: May 3, 2002

GBW Project No.: 02-314

PROJECT: Fire Station No. 1 Drainage Improvements

REMITTANCE PAGE:

Total Current Invoice \$ 3,913.50

TOTAL AMOUNT ENCLOSED \$ _____

Pay to the Order Of:

GBW Engineers, Inc.
1919 S. Shiloh Road
Suite 500
L.B. 27
Garland, Texas 75042

**Please Return This Page With Payment
For Prompt And Accurate Credit**

Facsimile Transmittal

Date: 05/01/02From: **GBW Engineers, Inc.**Fax To: JIM PIERCE

1919 S. Shiloh Rd.

Suite 500, L.B. 27

Of: TOWN OF ADDISON

Garland, Texas 75042

Tel. (972) 840-1916

Fax# (972) 450-2837

Fax (972) 840-2156

Ref: FIRE STATION No. 1 DRAINAGE# of Pages (including this sheet): 2Fax From: KATURA CURRY**Comments:**

JIM,

WE HAVE PUT TOGETHER AN OPINION OF PROBABLE COST FOR THE TWO ALTERNATIVES FOR THE FIRE STATION DRAINAGE IMPROVEMENTS. IF YOU HAVE ANY QUESTIONS, PLEASE CALL.



**Fire Station No. 1 Drainage Improvements
Town of Addison**

Engineer's Opinion of Probable Cost

Proposed Alternative No. 1 - Most Disruptive

Item No.	Item Description	Units	Quantity	Unit Cost	Total Cost
1	Concrete Flume Removal	SY	50	\$ 10.00	\$ 500.00
2	Concrete Patio Removal	SY	40	\$ 10.00	\$ 400.00
3	Brick Screening Wall Removal	SF	550	\$ 5.00	\$ 2,750.00
4	Earthwork (grading)	CY	750	\$ 15.00	\$ 11,250.00
5	Irrigation System Repair	LS	1	\$ 10,000.00	\$ 10,000.00
6	Remove / Replace Landscaping	LS	1	\$ 15,000.00	\$ 15,000.00
7	Concrete Flume Construction	SF	150	\$ 7.00	\$ 1,050.00
Sub-Total					\$ 40,950.00
20% Contingency					\$ 8,190.00
Total					\$ 49,140.00

Proposed Alternative No. 2 - Least Disruptive

Item No.	Item Description	Units	Quantity	Unit Cost	Total Cost
1	Concrete Flume Removal	SY	50	\$ 10.00	\$ 500.00
2	Concrete Flume Construction	SF	1065	\$ 7.00	\$ 7,455.00
3	Grate	SF	120	\$ 10.00	\$ 1,200.00
4	12" Concrete Wall	LF	23	\$ 15.00	\$ 345.00
5	Wye Inlet	EA	1	\$ 3,500.00	\$ 3,500.00
6	Special Inlet	EA	3	\$ 3,500.00	\$ 10,500.00
7	18" PVC Drainage Pipe and Fittings	LF	190	\$ 45.00	\$ 8,550.00
8	Grade Swale	CY	8	\$ 15.00	\$ 120.00
9	Irrigation System Repair	LS	1	\$ 2,500.00	\$ 2,500.00
10	Bermuda Sod	SY	50	\$ 5.00	\$ 250.00
11	Reinforced Concrete Sidewalk	SF	270	\$ 8.00	\$ 2,160.00
12	Miscellaneous Landscape Repair	LS	1	\$ 3,000.00	\$ 3,000.00
Sub-Total					\$ 40,080.00
20% Contingency					\$ 8,016.00
Total					\$ 48,096.00

excavation subsidiary to flume construction



Date: April 24, 2002

GBW No. 02-314

To: Jim Pierce, P.E.

DRAFT

From: Bruce Grantham, P.E.

Re: Town of Addison Fire Station No. 1 Drainage Improvements

General

The main building of Fire Station No. 1 is located at the southwest corner of the intersection of Addison Road and Airport Parkway. Portions of the building, along the north and east sides, are subject to flooding during the heavy rain events. Through site visits, interviews with City staff, and a topographic survey, we have determined several alternatives which will alleviate the surface water flooding of the existing building. This design memo includes the information used to determine and design the alternatives.

Attached to this memo is an Exhibit which identifies the existing flooding locations, along with photographs taken of the site. The photos show existing flumes adjacent to the building in those areas which are subject to flooding.

Topographic Survey

On April 1, 2002, a topographic design survey of the property was performed by GBW. This survey picked up all visible above ground features, underground utilities as marked by DIGTESS, and provided 0.5-foot contours of the area of the property being studied. This survey was tied into the elevation of the recessed curb inlet located on Addison Road at the southeast corner of Addison Road and Airport Parkway. The elevation of this inlet was found on the Airport Parkway and Parking for Police Facility and Fire Station No. 1 plans dated May 9, 1985 (record set date). A benchmark was set at this inlet for the project.

Summary of Flooding Locations

Based on an interview with Deputy Chief Bill Holly, the building experiences more frequent and severe flooding at the east end nearest Addison Road. Two offices and the conference room are located at this end of the building. As the photos show, this area is drained by a shallow flume directly adjacent to the building.

Three other locations on the north side of the building also experience less frequent and severe flooding. These three areas include the recreation room and kitchen areas, which are right off the private patio, the administration area which is also located at the east end of the building, and the entry area. According to Chief Holly, the flooding of the entry area occurs after the storm event. The other two locations on the north side flood during the storm event.

Alternative Sources of Flooding

The alternatives presented in the design memo will focus on keeping surface runoff from entering the building. However, during the interview with Chief Holly, other possible sources of water were discussed and are summarized below.

It appeared that some rainwater at the east end of the building may also be coming in through the window frames in the offices and conference rooms. There was some damage on the inside walls below the windows to support this premise. It would be difficult to determine how much water is coming in through the window frames unless the flooding locations were closely observed during a heavy rain.

Chief Holly also indicated that the entry area seems to receive rainwater after a storm. On the exterior of the building in this area, there is a roof drain within the wall leading to a down-spout which discharges into the flume. In addition to the roof drain, there is an overflow scupper. There is a possibility that water could be entering the building in the entry area through one of these drainage devices; however, there is no physical evidence of this occurring.

Primary Source of Flooding

Based on the information gathered, it appears that the primary factor influencing the drainage entering the building is the lack of difference between the finished floor elevation and the elevation of the exterior flumes and landscaping. In all the flooding areas, the building and flume elevations differ by less than one foot, with no positive drainage away from the building. As a result, it is highly likely that water ponds against the building foundation causing seepage into the adjacent rooms.

The goal of the alternatives presented in this design memo is to provide positive drainage away from the building and eliminate the ponding of water against the foundation.

Alternative Solutions

This section breaks the design into two areas: the recreation room/kitchen area and the east end. A description of the existing conditions and the alternative solutions are provided for each area.

Recreation room/Kitchen area - Flume A

Existing Conditions

- Flume A is located directly adjacent to the building where there are floor to ceiling windows.
- The existing flume, which drains to the parking lot, varies in depth between 0.2' and 0.3', whereas the width varies from 1' to 2'.
- The adjacent private concrete patio drains to a screening wall which has two 0.5" to 1" holes in the bottom for drainage. Landscaped ground on the opposite side of the wall is at the same elevation as the patio. This lack of adequate drainage backs water up several inches on the patio.
- The flume appears to drain direct rainfall, overflow runoff from building, and back-up runoff from the patio.

- Water entering the building appears to be from the “splash-up” action of the runoff hitting the shallow flume. The attached pictures show the close relation of the windows and flume elevation, with only the top of curb separating the two.

Proposed Alternative 1 - Most Disruptive

- Remove the concrete patio, the flume portion adjacent to building, the brick screening wall, and the existing landscaping bushes on the opposite side of the screening wall.
- Re-grade the area to completely drain away from building.
- Rebuild the concrete patio and screening wall. The bottom of the screening wall will have 2" openings every 12" for drainage. On the opposite side of the screening wall, construct a concrete flume which will carry the flow to the parking lot. Replace landscaping on the opposite side of flume. The flume will be sized to carry the flow.
- This alternative takes the flow away from the building and provides positive drainage to the parking lot.

Proposed Alternative 2 - Least Disruptive

- Remove the existing flume.
- Replace it with a flume approximately 3' wide, and 1.5' deep below the window elevation, with a slope to direct the splash away from building.
- For safety, a concrete wall 6" to 12" in height or a decorative wrought iron fence could be built between the patio and the new flume. In addition, a grate can cover the flume which will add safety and will provide a more aesthetic appearance for the patio area.
- This flume would drain to an inlet located adjacent to the parking lot sidewalk which will connect into an underground system. This underground system is used in Alternative 2 of the east end system. It will drain to the existing storm sewer system in Addison Road.
- This alternative takes flow away from the building and provides positive drainage while being the least disruptive to the existing patio.

East End - Flumes B, C, and D

Existing Conditions

- The flumes providing drainage to the east end of the building and property are located directly adjacent to the building, with a top of curb at approximately the same elevation as the finish floor of the building.
- Opposite the building, the flumes are bordered by extensive landscaping. As the attached photographs illustrate, at Flume D, the jasmine ground cover extends as a barrier, 6" to 12" above the flume. Flumes B and C are surrounded by mature, dense shrubs which extend to the edge of the flumes.
- The windows along Flume C are floor to ceiling windows. Those along Flume D do not extend to the floor.
- Flume B collects drainage from the roof down-spouts, direct rainfall, and runoff from the landscaped area. This flume drains to the parking lot.
- Flume C and D collect drainage from direct rainfall and runoff from the landscaped areas. Both of these flumes are drained by a 12" PVC pipe located at the northwest corner of the intersection of these flumes. This PVC pipe is

connected into the Addison Road storm sewer system. The opening of the PVC pipe is covered by a metal grate which is cleaned of debris periodically by the employees of the fire station.

- Water appears to enter the building from Flume D due to lack of elevation difference between the flume and finished floor. At Flume C, water appears to enter the windows possibly from the same “splash-up” effect as Flume A, as well as from a lack of elevation difference.

Proposed Alternative 1 - Most Disruptive

- Re-grade the yard adjacent to the east end of the building. Remove the flumes and begin the re-grading at the edge of the building approximately 0.75' below the finish floor and tie into the existing sidewalk of Addison Road. This would not include the area of the mature trees which is located on a small hill at the northeast corner of the property. The grading should have positive drainage away from the building in all locations.
- Re-landscape the yard area, assuring that the landscape remains lower than the finished floor as indicated in the initial grading. Care should be taken that the landscaping and edging chosen for the yard does not encourage flow to back up against the building foundation.
- The down-spouts should drain into concrete pads which direct the flow away from the building.
- The existing irrigation system would be salvaged as much as possible and replaced where it can not be salvaged.
- This alternative directs water away from the building, provides positive drainage, and lowers the adjacent ground elevation.

Proposed Alternative 2 - Least Disruptive

- This alternative is similar to Alternative 2 for Flume A. A deeper, wider flume would be constructed in place of the existing shallow flume. The existing landscaping would be minimally disturbed.
- The flumes would be connected into an underground system that would drain into the existing Addison Road storm sewer system. Flumes A through D, as described for proposed conditions, would be connected to this system.
- A wye inlet with an aesthetically acceptable cover would also be installed on the opposite side of the dense bushes to drain the low area of the east yard. During all of the field visits, this area seemed to be saturated.
- There would be some impact to the existing irrigation system; however, any damage would be corrected during construction.
- Because this area is not as visible, grates over the flume may not be required for aesthetic purposes, with the exception of Flume B. Flume B is located at the entry to the building creating a safety and aesthetic justification for the grates.
- This alternative moves the drainage from the finished floor elevation and provides positive drainage away from the building.

Conclusion of Recommendations

The attached exhibit illustrates the Alternative 2 concept for both areas. It shows the conceptual cross-section of the proposed flumes and the underground system which would take the flow to the Addison Road storm sewer system. The existing 10' recessed inlet being proposed as the tie-

in point is located at the upstream end of the system and is drained by an 18" RCP at 0.65%. Not considering backwater, the pipe can carry approximately 8.5 cfs which correlates to just over 1 acre of drainage area. After the proposed alternative 2 improvements, the total area at this inlet would be less than 0.5 acres. Alternative 1 does not propose to change the drainage areas of the inlets.

All of the alternatives presented above move the water away from the finished floor elevation of the building and provide positive drainage. The main difference between the two alternatives is the amount of disruption of the existing grounds.



INVOICE

Mr. Jim Pierce, P.E.
Town of Addison
16801 Westgrove Drive
Addison, Texas 75001

Invoice No.: 1656
Date: April 2, 2002
GBW Project No.: 02-314

PROJECT: Fire Station No. 1 Drainage Improvements

INVOICE SUMMARY

From 3/13/02 to 3/31/02

Table with 2 columns: Description and Amount. Rows include Total Contract Amount (\$14,995.00), Total Due This Invoice (\$1,541.00), Total Previous Invoices (\$0.00), Total Billed to Date (\$1,541.00), Less Payments/Credits (\$0.00), Total Amount Now Due (\$1,541.00), and Amount This Invoice (\$1,541.00).

Handwritten signature and date: 'Ok today', 'Jeffrey', '4-8-02'

Please Retain This Page For Your Records

Invoice No.: 1656
Date: April 2, 2002
Project: Fire Station No. 1 Drainage Improvements

1. Design Survey

Total Phase Amount	\$	3,204.00
20% complete	\$	640.80

2. Engineering Services

Total Phase Amount	\$	9,002.00
10% complete	\$	900.20

3. Bidding and Construction

Total Phase Amount	\$	2,289.00
0% complete	\$	0.00

4. Reimbursables

Total Phase Amount	\$	500.00
0% complete	\$	0.00

TOTAL BILLED TO DATE >>> \$ 1,541.00



Public Works / Engineering
 16801 Westgrove • P.O. Box 9010
 Addison, Texas 75001
 Telephone: (972) 450-2871 • Fax: (972) 450-2837

LETTER OF TRANSMITTAL

DATE	3-5-02	JOB NO.
ATTENTION		
RE:	Fire Station No 1 Drainage Improvements	

TO Carmen Moran
Town Hall

GENTLEMAN:

WE ARE SENDING YOU

- | | | |
|---|--|---|
| <input type="checkbox"/> Shop Drawings | <input checked="" type="checkbox"/> Attached | <input type="checkbox"/> Under separate cover via _____ the following items: |
| <input type="checkbox"/> Copy of letter | <input type="checkbox"/> Prints | <input type="checkbox"/> Plans <input type="checkbox"/> Samples <input type="checkbox"/> Specifications |
| | <input type="checkbox"/> Change order | <input type="checkbox"/> _____ |

COPIES	DATE	NO.	DESCRIPTION
1			Letter Agreement Re Above with GBW Engineers, Inc

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit _____ copies for approval |
| <input checked="" type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit _____ copies for distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Return _____ corrected prints |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> _____ | |
| <input type="checkbox"/> FOR BIDS DUE _____ 19____ | | <input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US |

REMARKS _____

COPY TO _____

SIGNED: J. [Signature]

If enclosures are not as noted, please notify us at once.



Public Works / Engineering

16801 Westgrove • P.O. Box 9010

Addison, Texas 75001

Telephone: (972) 450-2871 • Fax: (972) 450-2837

LETTER OF TRANSMITTAL

DATE	3-5-02	JOB NO.	
ATTENTION			
RE:	Fire Station No 1 Drainage Improvements		

TO Bruce Grantham
GBW Engineers

GENTLEMAN:

WE ARE SENDING YOU

- | | | |
|---|--|---|
| <input type="checkbox"/> Shop Drawings | <input checked="" type="checkbox"/> Attached | <input type="checkbox"/> Under separate cover via _____ the following items: |
| <input type="checkbox"/> Copy of letter | <input type="checkbox"/> Prints | <input type="checkbox"/> Plans <input type="checkbox"/> Samples <input type="checkbox"/> Specifications |
| | <input type="checkbox"/> Change order | <input type="checkbox"/> _____ |

COPIES	DATE	NO.	DESCRIPTION
1			Letter Agreement Re above

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit _____ copies for approval |
| <input checked="" type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit _____ copies for distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Return _____ corrected prints |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> _____ | |
| <input type="checkbox"/> FOR BIDS DUE _____ 19____ | <input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US | |

REMARKS Please consider this your notice to proceed.

COPY TO Mark Acevedo

SIGNED: [Signature]

If enclosures are not as noted, please notify us at once.



February 20, 2002

Mr. Jim Pierce, P.E.
Town of Addison
Department of Public Works
P.O. Box 9010
Addison, Texas 75001

Re: Letter Agreement for Engineering and Surveying Services
Fire Station No. 1 Drainage Improvements

Dear Jim:

GBW Engineers, Inc. (GBW) is pleased to present this proposal for engineering and surveying services to the Town of Addison (Town) for drainage improvements at Fire Station No. 1 located at the intersection of Addison Road and Airport Parkway. It is understood that storm water seeps into portions of the northern and eastern sections of the building at several locations during heavy rains. The purpose of this project is to improve the on-site drainage system so that the building is no longer subject to flooding at the subject locations.

The scope of services for this project is proposed in three phases, Surveying, Engineering Design, and Bidding and Construction Services.

Scope of Services

Phase 1 - Surveying

- Perform a topographic survey of the affected portion of the subject property that includes the location of all visible above-ground features and the generation of a 1-foot contour map suitable for design purposes.
- Obtain detailed survey information on the existing concrete flume along with other existing drainage structures located within the area of design, i.e. flowlines of inlets, pipes, etc.
- Contact DIGTESS and tie down underground utility markings within the design area.
- Provide sufficient vertical and horizontal control in the field for use by the contractor during construction of the project.

Phase 2 - Engineering

- Prepare a design memorandum which summarizes the surface and roof drainage calculations and the rationale behind the proposed improvements.
- Prepare a drainage improvement plan at 1"=40' scale, including an on-site drainage area map, on-site drainage calculations, and profiles of pipe and flume improvements.
- Review drainage calculations prepared by others for the portion of the existing drainage system in Addison Road that the proposed drainage improvements will discharge into.
- Prepare construction documents including plans and specifications based on the Town's standards.

Phase 3 - Bidding and Construction

- Supply the Town with up to 30 sets of constructions plans and bid documents for the project.
- Attend the bid opening, tabulate bids and prepare a letter that addresses the qualifications of the low bidder.
- Attend a pre-construction meeting.
- Respond to questions during the project construction.
- Prepare Record Drawings based solely on markups provided by the contractor and submit mylar and digital copies to the Town.

Assumptions

GBW has made the following assumptions in preparing this letter agreement:

- No off-site drainage systems will be analyzed other than the portion of the system in Addison Road that impacts the proposed on-site drainage improvements.
- No construction observation or review of contractor pay requests will be performed by GBW.

Compensation

GBW will complete the above Scope of Services for the following fixed fees:

• Surveying Services	\$ 3,204.00
• Engineering Services	\$ 9,002.00
• Bidding and Construction Services	\$ 2,289.00
• Expenses	\$ 500.00
Total Fee:	\$ 14,995.00

Terms and Conditions

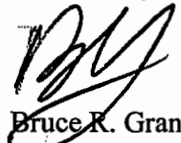
- **Access to Site:** Unless otherwise stated, GBW Engineers, Inc. (GBW) will have access to the site for activities necessary for the performance of the services. GBW will take precautions to minimize damage due to these activities, but has not included in the fee the cost of restoration of any resulting damage.
- **Dispute Resolution:** Any claims or disputes made during design, construction or post construction between the Client and GBW will be submitted to nonbinding mediation. Client and GBW agree to include a similar mediation agreement with all contractors, subcontractors, subconsultants, suppliers and fabricators, thereby providing for mediation as the primary method for dispute resolution among all parties.
- **Billings/Payments:** Invoices for GBW's services will be submitted on a monthly basis. Invoices will be payable within 30 days after the invoice date.
- **Indemnification:** The Client will, to the fullest extent permitted by law, indemnify and hold harmless GBW, its officers, directors, employees, agents and subconsultants from and against all damage, liability and cost including reasonable attorney's fees and defense costs, arising out of or in any way connected with the performance of the services under this agreement by any of the parties above named, excepting only those damages, liabilities or costs attributable to the sole negligence or willful misconduct of GBW.

Mr. Jim Pierce, P.E.
February 20, 2002
Page 3

- **Certifications/Responsibilities:** GBW will not be required to execute any document that would result in its certifying, guaranteeing or warranting the existence of conditions whose existence GBW cannot ascertain. Furthermore, GBW will not be responsible for the means, methods, procedures, techniques, or sequences of construction, nor for safety on the job site.
- **Termination of Services:** This agreement may be terminated by the Client or GBW should the other fail to perform its obligations hereunder. In the event of termination, the Client will pay GBW for all services rendered to the date of termination, all reimbursable expenses and reimbursable termination expenses.
- **Ownership of Documents:** All documents produced by GBW under this agreement will remain the property of GBW, unless otherwise stated, and may not be used by the Client for any other endeavor without the written consent of GBW.

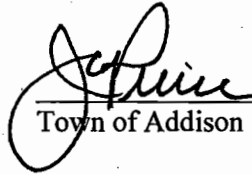
Please contact me if you need any additional information.

Very truly yours,



Bruce R. Grantham, P.E.
President

Approved by:


Town of Addison

3-5-02
Date

BG/gg

J:\WPDOCS\PROPOSAL\ADDISON\FireStation.ltr



February 20, 2002

Mr. Jim Pierce, P.E.
Town of Addison
Department of Public Works
P.O. Box 9010
Addison, Texas 75001

Re: Letter Agreement for Engineering and Surveying Services
Fire Station No. 1 Drainage Improvements

Dear Jim:

GBW Engineers, Inc. (GBW) is pleased to present this proposal for engineering and surveying services to the Town of Addison (Town) for drainage improvements at Fire Station No. 1 located at the intersection of Addison Road and Airport Parkway. It is understood that storm water seeps into portions of the northern and eastern sections of the building at several locations during heavy rains. The purpose of this project is to improve the on-site drainage system so that the building is no longer subject to flooding at the subject locations.

The scope of services for this project is proposed in three phases, Surveying, Engineering Design, and Bidding and Construction Services.

Scope of Services

Phase 1 - Surveying

- Perform a topographic survey of the affected portion of the subject property that includes the location of all visible above-ground features and the generation of a 1-foot contour map suitable for design purposes.
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- Prepare a design memorandum which summarizes the surface and roof drainage calculations and the rationale behind the proposed improvements.
- Prepare a drainage improvement plan at 1"=40' scale, including an on-site drainage area map, on-site drainage calculations, and profiles of pipe and flume improvements.
- Review drainage calculations prepared by others for the portion of the existing drainage system in Addison Road that the proposed drainage improvements will discharge into.
- Prepare construction documents including plans and specifications based on the Town's standards.

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- Attend a pre-construction meeting.
- Respond to questions during the project construction.
- Prepare Record Drawings based solely on markups provided by the contractor and submit mylar and digital copies to the Town.

Assumptions

GBW has made the following assumptions in preparing this letter agreement:

- No off-site drainage systems will be analyzed other than the portion of the system in Addison Road that impacts the proposed on-site drainage improvements.
- No construction observation or review of contractor pay requests will be performed by GBW.

Compensation

GBW will complete the above Scope of Services for the following fixed fees:

• Surveying Services	\$ 3,204.00
• Engineering Services	\$ 9,002.00
• Bidding and Construction Services	\$ 2,289.00
• Expenses	<u>\$ 500.00</u>
Total Fee:	\$ 14,995.00

Terms and Conditions

- **Access to Site:** Unless otherwise stated, GBW Engineers, Inc. (GBW) will have access to the site for activities necessary for the performance of the services. GBW will take precautions to minimize damage due to these activities, but has not included in the fee the cost of restoration of any resulting damage.
- **Dispute Resolution:** Any claims or disputes made during design, construction or post construction between the Client and GBW will be submitted to nonbinding mediation. Client and GBW agree to include a similar mediation agreement with all contractors, subcontractors, subconsultants, suppliers and fabricators, thereby providing for mediation as the primary method for dispute resolution among all parties.
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Mr. Jim Pierce, P.E.
February 20, 2002
Page 3

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- **Ownership of Documents:** All documents produced by GBW under this agreement will remain the property of GBW, unless otherwise stated, and may not be used by the Client for any other endeavor without the written consent of GBW.

Please contact me if you need any additional information.

Very truly yours,



Bruce R. Grantham, P.E.
President

Approved by:

Town of Addison

Date

BG/gg

J:\WPDOCS\PROPOSAL\ADDISON\FireStation.ltr

HP LaserJet 3200se



TOALASERJET 3200
9724502837
FEB-26-2002 2:53PM

Fax Call Report

Job	Date	Time	Type	Identification	Duration	Pages	Result
587	2/26/2002	2:51:41PM	Send	99728402156	2:13	5	OK

TOWN OF
ADDISON

PUBLIC WORKS

To: Bruce Grantham

From: Jim Pierce, P.E.
Asst. Public Wks. Dir.
Phone: 972/450-2879
FAX: 972/450-2837
jpierce@ci.addison.tx.us

Company: GBW Engrs

FAX #: 972-840-2156

Date: 2-26-02

16801 Westgrove
P.O.Box 9010
Addison, TX 75001-9010

of pages (including cover): 5

Re: Fire Station 1 Drainage Improvements

Original in mail Per your request FYI Call me

Comments: Please review & resubmit 2
original - as noted.

Jim

Facsimile Transmittal

Date: 2-20-02

From: **GBW Engineers, Inc.**

Fax To: Jim Pierce

1919 S. Shiloh Rd.
Suite 500, L.B. 27
Garland, Texas 75042
Tel. (972) 840-1916
Fax (972) 840-2156

Of: _____

Fax# 972-450-2834

Ref: _____

of Pages (including this sheet): 5

Fax From: Bruce Grantham

Comments:

Mark - Please review & comment
and then I will get back to Bruce.

Jim

Jim -

I concur with your comments.

Mark



Engineers, Inc.

Grantham, Burge & Waldbauer

February 20, 2002

Mr. Jim Pierce, P.E.
Town of Addison
Department of Public Works
P.O. Box 9010
Addison, Texas 75001

Re: Letter Agreement for Engineering and Surveying Services
Fire Station No. 1 Drainage Improvements

Dear Jim:

GBW Engineers, Inc. (GBW) is pleased to present this proposal for engineering and surveying services to the Town of Addison (Town) for drainage improvements at Fire Station No. 1 located at the intersection of Addison Road and Airport Parkway. It is understood that storm water seeps into the southern half of the building at several locations during heavy rains. The purpose of this project is to improve the on-site drainage system so that the building is no longer subject to flooding at the subject locations.

portions of the northern and the eastern

The scope of services for this project is proposed in three phases, Surveying, Engineering Design, and Bidding and Construction Services.

Scope of Services

Phase 1 - Surveying

- Perform a topographic survey of the ~~southern~~ portion of the subject property that includes the location of all visible above-ground features and the generation of a 1-foot contour map suitable for design purposes.
- Obtain detailed survey information on the existing concrete flume along with other existing drainage structures located within the area of design, i.e. flowlines of inlets, pipes, etc.
- Contact DIGTESS and tie down underground utility markings within the design area.
- Provide sufficient vertical and horizontal control in the field for use by the contractor during construction of the project.

affected

Phase 2 - Engineering

- Prepare a design memorandum which summarizes the drainage calculations and the rationale behind the proposed improvements.
- Prepare a drainage improvement plan at 1"=40' scale, including an on-site drainage area map, on-site drainage calculations, and profiles of pipe and flume improvements.
- Review drainage calculations prepared by others for the portion of the existing drainage system in Addison Road that the proposed drainage improvements will discharge into.
- Prepare construction documents including plans and specifications based on the Town's standards.

surface and roof

Mr. Jim Pierce, P.E.
February 20, 2002
Page 2

Phase 3 - Bidding and Construction

- Supply the Town with up to 30 sets of constructions plans and bid documents for the project.
- Attend the bid opening, tabulate bids and prepare a letter that addresses the qualifications of the low bidder.
- Attend a pre-construction meeting.
- Respond to questions during the project construction.
- Prepare Record Drawings based solely on markups provided by the contractor and submit mylar and digital copies to the Town.

Assumptions

GBW has made the following assumptions in preparing this letter agreement:

- No off-site drainage systems will be analyzed other than the portion of the system in Addison Road that impacts the proposed on-site drainage improvements.
- No construction observation or review of contractor pay requests will be performed by GBW.

Compensation

GBW will complete the above Scope of Services for the following fixed fees:

• Surveying Services	\$ 3,204.00
• Engineering Services	\$ 9,002.00
• Bidding and Construction Services	\$ 2,289.00
• Expenses	<u>\$ 500.00</u>
Total Fee:	\$ 14,995.00

Terms and Conditions

- **Access to Site:** Unless otherwise stated, GBW Engineers, Inc. (GBW) will have access to the site for activities necessary for the performance of the services. GBW will take precautions to minimize damage due to these activities, but has not included in the fee the cost of restoration of any resulting damage.
- **Dispute Resolution:** Any claims or disputes made during design, construction or post construction between the Client and GBW will be submitted to nonbinding mediation. Client and GBW agree to include a similar mediation agreement with all contractors, subcontractors, subconsultants, suppliers and fabricators, thereby providing for mediation as the primary method for dispute resolution among all parties.
- **Billings/Payments:** Invoices for GBW's services will be submitted on a monthly basis. Invoices will be payable within 30 days after the invoice date.
- **Indemnification:** The Client will, to the fullest extent pennitted by law, indemnify and hold harmless GBW, its officers, directors, employees, agents and subconsultants from and against all damage, liability and cost including reasonable attorney's fees and defense costs, arising out of or in any way connected with the performance of the services under this agreement by any of the parties above named, excepting only those damages, liabilities or costs attributable to the sole negligence or willful misconduct of GBW.

Mr. Jim Pierce, P.E.
February 20, 2002
Page 3

- **Certifications/Responsibilities:** GBW will not be required to execute any document that would result in its certifying, guaranteeing or warranting the existence of conditions whose existence GBW cannot ascertain. Furthermore, GBW will not be responsible for the means, methods, procedures, techniques, or sequences of construction, nor for safety on the job site.
- **Termination of Services:** This agreement may be terminated by the Client or GBW should the other fail to perform its obligations hereunder. In the event of termination, the Client will pay GBW for all services rendered to the date of termination, all reimbursable expenses and reimbursable termination expenses.
- **Ownership of Documents:** All documents produced by GBW under this agreement will remain the property of GBW, unless otherwise stated, and may not be used by the Client for any other endeavor without the written consent of GBW.

Please contact me if you need any additional information.

Very truly yours,

Approved by:



Bruce R. Grantham, P.E.
President

Town of Addison Date

BG/gg
J:\WP\DOCS\PROPOSAL\ADDISON\Fire Station.ltr

GBW ENGINEERS, INC. PROPOSED MANHOURS / COSTS								DATE: 2/20/02
Addison Fire Station No. 1 Drainage Improvements Addison, Texas								
TASK	DISCIPLINE / HOURLY RATE							TOTAL COST
	Project Manager \$148	Project Engineer \$90	Design Tech \$68	Cadd Tech \$47	Administrative Assistant \$45	Survey Manager \$120	Survey Crew \$110	
Survey								
Topographic and Design Survey, Tie Utility Flags, and Control			1	8		1	24	\$ 3,204.00
							<i>Sub-Total</i>	\$ 3,204.00
Engineering								
Field Visit (1)		4						\$ 380.00
Town Meetings (2)	4	4						\$ 944.00
Obtain / Review Plans		4		2				\$ 454.00
Utility Coordination	1	4		2	2			\$ 690.00
Drainage Calculations	1	4						\$ 606.00
Drainage Design	1	8						\$ 886.00
Drainage Memo	1	4			2			\$ 506.00
Plan Preparation	1	8	2	40				\$ 2,882.00
City Markups	1	2	2	8				\$ 838.00
Bid Documents	1	4			8			\$ 888.00
							<i>Sub-Total</i>	\$ 9,002.00
Bidding and Construction								
Opinion of Probable Cost	1	4						\$ 506.00
Bid Opening / Tabulate bids / Award Letter		2			4			\$ 380.00
Preconstruction Meeting		3						\$ 270.00
Respond to Construction questions	1	4						\$ 506.00
Record Drawings		1	2	8	1			\$ 647.00
							<i>Sub-Total</i>	\$ 2,289.00
TOTAL HOURS	13	60	7	58	17	1	24	
TOTAL COST / DISC	\$1,898	\$5,400	\$476	\$3,198	\$785	\$120	\$2,840	
								PROJECT MANHOUR COST: \$14,495.00 PROJECT EXPENSES: \$ 500.00 TOTAL PROJECT COST: \$14,995.00



LINDER CONSTRUCTION COMPANY, INC.

2200 Cantrell-Sansom Rd • Fort Worth, Texas 76131
Office 817.232.5555 • Fax 817.232.3338

September 23, 2002

Town of Addison
16801 Westgrove Drive
P.O. Box 9010
Addison, TX 75001-9010

Attention: Luke A. Jalbert

Reference: Addison Fire Station No. 1
Drainage Improvements
RFI-1 Pipe/Tree Conflict

Dear Sir:

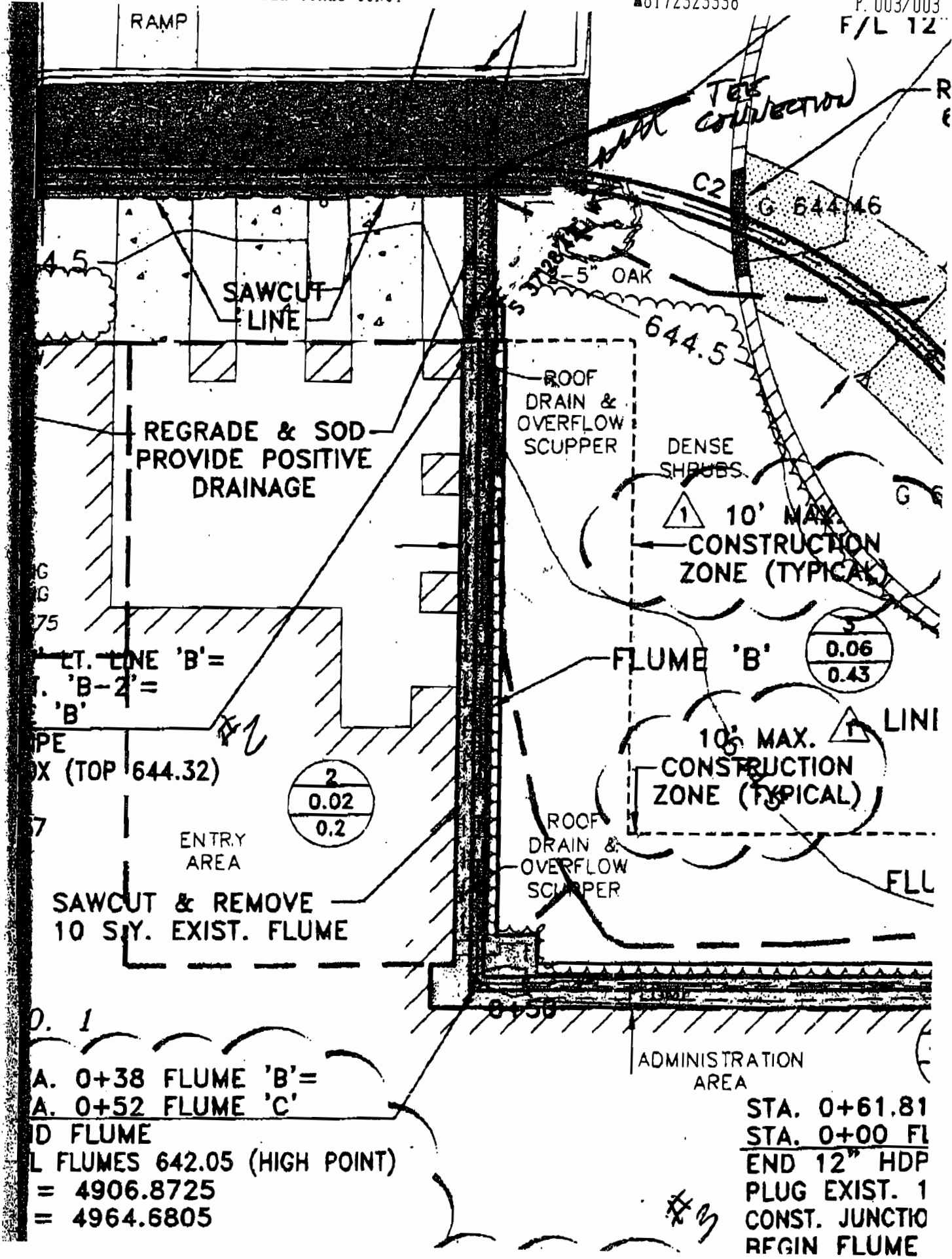
We have run into a conflict on the site. The 5" Oak tree located east of the sidewalk at the north entrance is in direct conflict with the installation of the drainage pipe for lateral B-2. We could extend the pipe straight out of the Junction box and tie into Line "B" at approximate Sta 0+76 +/- using a Tee fitting rather than the Y fitting as shown on the drawings. This would be a no cost change order.

If you have any questions, or require any further information, please contact us.

Sincerely,

LINDER CONSTRUCTION CO., INC.

David H. Linder
Vice President



A. 0+38 FLUME 'B'=
 A. 0+52 FLUME 'C'
 ID FLUME
 L FLUMES 642.05 (HIGH POINT)
 = 4906.8725
 = 4964.6805

ADMINISTRATION AREA
 STA. 0+61.81
 STA. 0+00 FL
 END 12" HDP
 PLUG EXIST. 1
 CONST. JUNCTIO
 REGIN FLUME

#3



LINDER CONSTRUCTION COMPANY, INC.

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Office 817.232.5555 • Fax 817.232.3338

September 23, 2002

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Sincerely,

LINDER CONSTRUCTION CO., INC.

David H. Linder
Vice President

STA. 0+1
WYE CO
F/L 12"

RAMP

TEE
COLLECTION

C2

G 644.46

4.5

SAWCUT
LINE

5" OAK

644.5

REGRADE & SOD
PROVIDE POSITIVE
DRAINAGE

ROOF
DRAIN &
OVERFLOW
SCUPPER

DENSE
SHRUBS

1 10' MAX.
CONSTRUCTION
ZONE (TYPICAL)

G
G
75

LT. LINE 'B'=
T. 'B-2'=
'B'

FLUME 'B'

3
0.06
0.43

PIPE
BOX (TOP 644.32)

10' MAX.

3
0.06
0.43

 LINE

7

ENTRY
AREA

2
0.02
0.2

ROOF
DRAIN &
OVERFLOW
SCUPPER

10' MAX.

3
0.06
0.43

 LINE

SAWCUT & REMOVE
10 S.Y. EXIST. FLUME

FLU

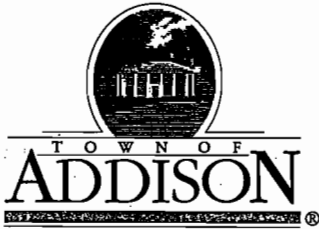
0. 1

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ADMINISTRATION
AREA

STA. 0+61.81
STA. 0+00 FL
END 12" HDP
PLUG EXIST. 1
CONST. JUNCTIO
BEGIN FLUME

#3



FINANCE DEPARTMENT/PURCHASING DIVISION

5350 Belt Line Road (972) 450-7091

E-mail purchasing@ci.addison.tx.us

Facsimile (972) 450-7096

P.O. Box 9010

Addison, Texas 75001

August 27, 2002

Linder Construction, Inc.
Barbara S. Linder
2200 Cantrell Sansom Rd
Ft. Worth, TX 76131

NOTICE OF AWARD: Fire Station 1 Drainage Improvements

Dear Ms. Linder:

Receipt of this document authorizes your company to provide all labor and materials as outlined in the specifications, and under the terms and conditions of the contract documents for Bid No: 02-38.

Enclosed please find four completed copies of the contract to be signed by an authorized officer or principal of your firm.

Please send the signed contracts along with the necessary insurance certificates, Payment Bond, and Maintenance Bond as soon as possible, but no later than September 6, 2002. Once we receive these items a Notice to Proceed will be issued.

If you have any questions or if I can be of assistance to you, please contact me at 972-450-7091.

Sincerely,

Minok Suh
Purchasing Coordinator

Enclosures

Copy: Luke Jalbert

SECTION CA
CONTRACT AGREEMENT

STATE OF TEXAS

COUNTY OF DALLAS

THIS AGREEMENT is made and entered into this 27 day of August, 2002, by and between the Town of Addison, of the County of Dallas and State of Texas, acting through its Mayor or City Manager, thereunto duly authorized so to do, Party of the First Part, hereinafter termed the OWNER, and Linder Construction, Inc., of the City of Ft. Worth, County of Tarrant, State of Texas, Party of the Second Part, hereinafter termed CONTRACTOR.

WITNESSETH: That for and in consideration of the payment and agreement hereinafter mentioned, to be made and performed by the OWNER, the said CONTRACTOR hereby agrees with the said OWNER to commence and complete construction of certain improvements as follows:

Addison Fire Station No. 1 Drainage Improvements

and all extra work in connection therewith, under the terms as stated in the General and Specific Provisions of the AGREEMENT; and at his own proper cost and expense to furnish all the materials, supplies, machinery, equipment, tools, superintendence, labor, insurance and other accessories and services necessary to complete the said construction, in accordance with the conditions and prices stated in the Proposal attached hereto and in accordance with the Advertisement for Bids. Instructions to Bidders, General Provisions. Special Provisions. Plans, and other drawings and printed or written explanatory matter thereof, and the Technical Specifications and Addenda thereto, as prepared by the OWNER, each of which has been identified by the endorsement of the CONTRACTOR and the OWNER thereon, together with the CONTRACTOR's written Proposal and the General Provisions, all of which are made a part hereof and collectively evidence and constitute the entire AGREEMENT.

The CONTRACTOR hereby agrees to commence work within ten (10) calendar days after the date of written notice shall have been given to him, and to complete all work within the number of days submitted in the proposal form after he commences work, subject to such extensions of time as are provided by the General Provisions.

The OWNER agrees to pay the CONTRACTOR \$73,917.50 in current funds for the performance of the Contract in accordance with the Proposal submitted thereof, subject to additions and deductions, as provided in the General Provisions, and to make payments of account thereof as provided therein.

IN WITNESS THEREOF, the parties of these presents have executed this AGREEMENT in the year and day first above written.

TOWN OF ADDISON
(OWNER)

ATTEST:

BY: _____

City Secretary

Party of the Second Part
(CONTRACTOR)

ATTEST:

By: _____

The following to be executed if the CONTRACTOR is a corporation:

I, _____, certify that I am the secretary of the corporation named as CONTRACTOR herein; that _____, who signed this Contract on behalf of the CONTRACTOR is the _____ of said corporation; that said Addison Fire Station No. 1 Drainage Improvements Contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

Signed: _____

Corporate Seal