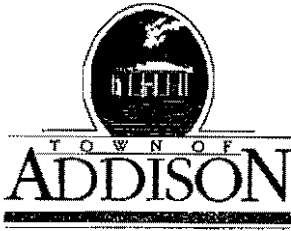


TRENCHLESS INTERNAL LINING

W. L. ...  
®



FINANCE DEPARTMENT/PURCHASING DIVISION  
E-mail [msub@ci.addison.tx.us](mailto:msub@ci.addison.tx.us)

Facsimile (972) 450-7096

5350 Belt Line Road (972) 450-7091  
P.O. Box 9010 Addison, Texas 75001

June 17, 2004

M.B. Edwards  
Garver Construction, LTD  
7600 S. Santa Fe, Bldg. E  
Houston, TX 77061

RE: Bid Tabulation Request

Dear Mr. Edwards:

I did receive your request for an itemized tabulation for Bid 03-22 Trenchless Internal Lining of Sanitary Sewer Lines on Monday June 14, 2004. As for your original request submitted October 2003, I did respond to you letting you know I did not have an itemized tabulation for the bid and that our Public Works Department should have that information. I also provided names and numbers to follow up with if necessary.

Since I do not have itemized tabulation I have made copies of the bids submitted, which I have attached. If this is not sufficient please email me at [msub@ci.addison.tx.us](mailto:msub@ci.addison.tx.us) with further detail of the information you are looking for.

Sincerely,

Minok Suh  
Purchasing Coordinator  
Town of Addison

cc: Steve Chutchain  
Jim Pierce

Enclosures

**BID FORM**  
**BID NO. 03-22**  
**Trenchless Internal Lining of Sanitary Sewer Lines**

Bidder Name GARVER CONSTRUCTION LTD T.I.N. 76-0603241  
 Address 7600 S. Santa Fe Blvd Houston TX zip 77061  
 Phone 713-634-0439 Fax 713-634-0489 e-mail \_\_\_\_\_

I have received, read and understand all pages of these instructions and specifications. I will abide by all areas of these specifications, and I am a legal agent of the above named company, authorized to sign this bid.

Affiant further states that Bidder has not paid, given, or donated or agreed to pay, give or donate to any officer or employee of the Town of Addison any money or other thing of value, either directly or indirectly, in procuring of the Contract.

AUTHORIZED OFFICER/OWNER T.A. Scholz T.A. Schulte V.P.  
 Name of Contact (print) T.A. Scholz, or Mike Edwards

ITEM NO.	UNIT	DESCRIPTION	QTY	UNIT PRICE	UNIT TOTAL
1	LF	8" x 6.0mm trenchless rehabilitation by CIPP of existing sewer pipe mainline, complete in place for the sum of <u>thirty two dollars and no</u> Cents per linear foot.	3,200	\$ <u>32.<sup>00</sup></u>	\$ <u>102,400.<sup>00</sup></u>
2	LF	Pre-TV and cleaning of 8" existing sewer pipe mainline, for the sum of <u>Two</u> Dollars and <u>no</u> Cents per linear foot.	3,200	\$ <u>2.<sup>00</sup></u>	\$ <u>6,400.<sup>00</sup></u>
3	LF	Post-TV inspection of 8" CIPP lined sewer pipe mainline, for the sum of <u>One</u> Dollars and <u>no</u> Cents per linear foot.	3,200	\$ <u>1.<sup>00</sup></u>	\$ <u>3,200.<sup>00</sup></u>
4	EA	Internal sanitary sewer service lateral reinstatement by remote cutting device, complete in place for the sum of <u>Two Hundred Ten Dollars and</u> Dollars Cents per each.	42	\$ <u>210.<sup>00</sup></u>	\$ <u>8,820.<sup>00</sup></u>

5	EA	Point repair of existing 8" sanitary sewer mainline and service connection, 0 to 10 ft in length, various depths, under concrete, complete in place for the sum of <u>Forty One Hundred Fifty</u> Dollars and <u>no</u> Cents per each.	2	\$ 4150. <sup>00</sup>	\$ 8300. <sup>00</sup>
6	EA	Point repair of existing 8" sanitary sewer mainline and service connection, 0 to 10 ft in length, various depths, under landscaped area, complete in place for the sum of <u>Thirty Seven Hundred Twenty Five</u> Dollars and <u>no</u> Cents per each.	2	\$ 3725. <sup>00</sup>	7450. <sup>00</sup>
7	EA	Point repair of existing 8" sanitary sewer mainline, 0 to 10 ft in length, various depths, under concrete, complete in place for the sum of <u>Forty Three Hundred Fifty</u> Dollars and <u>no</u> Cents per each.	2	\$ 4350. <sup>00</sup>	\$ 8700. <sup>00</sup>
8	EA	Point repair of existing 8" sanitary sewer mainline, 0 to 10 ft in length, various depths, under landscaped area, complete in place for the sum of <u>Thirty Six Hundred Twenty Five</u> Dollars and <u>no</u> Cents per each.		\$ 3575. <sup>00</sup>	\$ 7150. <sup>00</sup>
9	EA	Remove and replace end of line cleanouts to facilitate CIPP lining, complete in place for the sum of <u>Eight Hundred Seventy Five</u> Dollars and <u>no</u> Cents per each.	3	\$ 875. <sup>00</sup>	\$ 2625. <sup>00</sup>

TOTAL BID \$

\$ 155045.<sup>00</sup>

**BID FORM  
 BID NO. 03-22**

**Trenchless Internal Lining of Sanitary Sewer Lines**

Bidder Name: Horseshoe Construction, Inc. I.N. 76-0389648  
 Address: 2309 S. Battleground Dr. LA PORTE Zip 77571  
 Phone: 881-478-5477 Fax: 881-478-6436 e-mail: LittlecatKDP@aol.com

I have received, read and understand all pages of these instructions and specifications. I will abide by all areas of these specifications, and I am a legal agent of the above named company, authorized to sign this bid.

Affiant further states that Bidder has not paid, given, or donated or agreed to pay, give or donate to any officer or employee of the Town of Addison any money or other thing of value, either directly or indirectly, in procuring of the Contract.

AUTHORIZED OFFICER/OWNER John R. Holt TITLE Vice President  
 Name of Contact (print) John R. Holt

ITEM NO	UNIT	DESCRIPTION	QTY	UNIT PRICE	UNIT TOTAL
1	LF	8" x 8.0mm trenchless rehabilitation by GIPP of existing sewer pipe mainline, complete in place for the sum of <u>Pipeburst</u> <u>FOURTY-NINE DOLLARS FIFTY</u> Cents per linear foot.	3,200	\$ <u>49<sup>50</sup></u>	\$ <u>158,400<sup>00</sup></u>
2	LF	Pre-TV and cleaning of 8" existing sewer pipe mainline, for the sum of <u>FOUR</u> Dollars and <u>No</u> Cents per linear foot.	3,200	\$ <u>4<sup>00</sup></u>	\$ <u>12,800<sup>00</sup></u>
3	LF	Post-TV inspection of 8" GIPP lined sewer pipe mainline, for the sum of <u>TWO</u> Dollars and <u>No</u> Cents per linear foot.	3,200	\$ <u>2<sup>00</sup></u>	\$ <u>6,400<sup>00</sup></u>
4	EA	Internal sanitary sewer service lateral reinstatement by remote cutting device, complete in place for the sum of <u>SIXTY-SEVEN DOLLARS</u> Dollars <u>No</u> Cents per each.	42	\$ <u>675<sup>00</sup></u>	\$ <u>28,350<sup>00</sup></u>

5	EA	Point repair of existing 8" sanitary sewer mainline and service connection, 0 to 10 ft in length, various depths, under concrete, complete in place for the sum of <u>SIX HUNDRED SEVENTY FIVE</u> Dollars and <u>No</u> Cents per each.	2	\$675 <sup>00</sup>	\$1,350 <sup>00</sup>
6	EA	Point repair of existing 8" sanitary sewer mainline and service connection, 0 to 10 ft in length, various depths, under landscaped area, complete in place for the sum of <u>SEVEN HUNDRED FIFTY</u> Dollars and <u>No</u> Cents per each.	2	\$750 <sup>00</sup>	\$1,500 <sup>00</sup>
7	EA	Point repair of existing 8" sanitary sewer mainline, 0 to 10 ft in length, various depths, under concrete, complete in place for the sum of <u>SEVEN HUNDRED FIFTY</u> Dollars and <u>No</u> Cents per each.	2	\$750 <sup>00</sup>	\$1,500 <sup>00</sup>
8	EA	Point repair of existing 8" sanitary sewer mainline, 0 to 10 ft in length, various depths, under landscaped area, complete in place for the sum of <u>SEVEN HUNDRED FIFTY</u> Dollars and <u>No</u> Cents per each.	2	\$750 <sup>00</sup>	\$1,500 <sup>00</sup>
9	EA	Remove and replace end of line cleanouts to facilitate CIPP lining, complete in place for the sum of <u>TWO HUNDRED DOLLARS</u> Dollars and <u>No</u> Cents per each.	3	\$200 <sup>00</sup>	\$600 <sup>00</sup>

TOTAL BID \$

\$212,400<sup>00</sup>

**BID FORM**  
**BID NO. 03-22**  
**Trenchless Internal Lining of Sanitary Sewer Lines**

Bidder Name: Insituform Technologies, Inc. T.I.N. 13-3032158  
 Address 702 Spirit 40 Park Dr. City Chesterfield, MO 63005  
 Phone 636-530-8000 Fax 636-530-0751 e-mail \_\_\_\_\_

I have received, read and understand all pages of these instructions and specifications. I will abide by all areas of these specifications, and I am a legal agent of the above named company, authorized to sign this bid.

Affiant further states that Bidder has not paid, given, or donated or agreed to pay, give or donate to any officer or employee of the Town of Addison any money or other thing of value, either directly or indirectly, in procuring of the Contract.

AUTHORIZED OFFICER/OWNER *Gerald Addington* TITLE Vice President-Project Management  
 Name of Contact (print) Gerald Addington

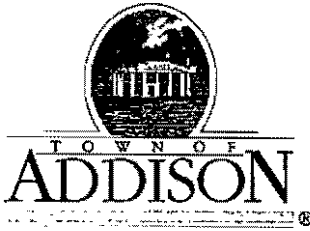
ITEM NO.	UNIT	DESCRIPTION	QTY	UNIT PRICE	UNIT TOTAL
1	LF	8" x 6.0mm trenchless rehabilitation by CIPP of existing sewer pipe mainline, complete in place for the sum of <u>Twenty seven dollars and no</u> Cents per linear foot.	3,200	\$ <u>27.00</u>	\$ <u>86,400.00</u>
2	LF	Pre-TV and cleaning of 8" existing sewer pipe <del>mainline</del> , for the sum of <u>Three dollars</u> Dollars and <u>Fifty</u> Cents per linear foot.	3,200	\$ <u>3.50</u>	\$ <u>11,200.00</u>
3	LF	Post-TV inspection of 8" CIPP lined sewer pipe mainline, for the sum of <u>One</u> Dollars and <u>Ten</u> Cents per linear foot.	3,200	\$ <u>1.10</u>	\$ <u>3,520.00</u>
4	EA	Internal sanitary sewer service lateral reinstatement by remote cutting device, complete in place for the sum of <u>Fifty dollars and no</u> <del>no</del> <u>no</u> Dollars Cents per each.	42	\$ <u>50.00</u>	\$ <u>2,100.00</u>

5	EA	Point repair of existing 8" sanitary sewer mainline and service connection, 0 to 10 ft in length, various depths, under concrete, complete in place for the sum of <u>One hundred</u> Dollars and <u>No</u> Cents per each.	2	\$ 100.00	\$ 200.00
6	EA	Point repair of existing 8" sanitary sewer mainline and service connection, 0 to 10 ft in length, various depths, under landscaped area, complete in place for the sum of <u>One hundred</u> Dollars and <u>No</u> Cents per each.	2	\$ 100.00	\$ 200.00
7	EA	Point repair of existing 8" sanitary sewer mainline, 0 to 10 ft in length, various depths, under concrete, complete in place for the sum of <u>One hundred</u> Dollars and <u>No</u> Cents per each.	2	\$ 100.00	\$ 200.00
8	EA	Point repair of existing 8" sanitary sewer mainline, 0 to 10 ft in length, various depths, under landscaped area, complete in place for the sum of <u>One hundred</u> Dollars and <u>No</u> Cents per each.	<sup>DB</sup> 2	\$ 100.00	\$ 200.00
9	EA	Remove and replace end of line cleanouts to facilitate CIPP lining, complete in place for the sum of <u>One hundred dollars and NO</u> Cents per each. <del>NO Dollars and</del>	3	\$ 100.00	\$ 300.00

TOTAL BID \$

\$ 104,320.00





FINANCE DEPARTMENT/PURCHASING DIVISION  
E-mail [msuh@ci.addison.tx.us](mailto:msuh@ci.addison.tx.us)

Facsimile (972) 450-7096

5350 Belt Line Road (972) 450-7091  
P.O. Box 9010 Addison, Texas 75001

August 28, 2003

Insituform Technologies, Inc.  
Gerald Addington  
702 Spirit 40 Park Dr  
Chesterfield, Missouri 63005

Re: NOTICE TO PROCEED- BID NO. 03-22 Trenchless Internal Lining of Sanitary Sewer Lines

Dear Mr. Addington:

This document shall serve as your Notice to Proceed for the above referenced Project, and is issued and effective August 29, 2003 to provide all labor and materials as outlined in the specifications, and under the terms and conditions of the contract documents. Copy of the signed contract will follow.

The proposed improvements and work shall be completed within the time determined by Public Works Department, with the original contract price of \$104,320.00. Please include the Project name and Bid No. 03-22 on all invoices or other correspondence to the Town of Addison.

Should you have any questions, please contact my office at 972-450-7091.

Sincerely,

Minok Suh  
Purchasing Coordinator

Copy: Jerry Davis  
Luke Jalbert

To: Jim Pierce / Steve C

From the Desk of: Gayle Walton

For Your Files

**RESOLUTION NO. 003-077**

A RESOLUTION BY THE CITY COUNCIL OF THE TOWN OF ADDISON, TEXAS, AUTHORIZING THE CITY MANAGER TO ENTER INTO A CONTRACT IN THE AMOUNT OF \$104,320.00 WITH INSITUFORM TECHNOLOGIES FOR TRENCHLESS INTERNAL LINING OF SANITARY SEWER LINES.

WHEREAS, a portion of the Town of Addison existing wastewater system was constructed in the early 1960's; and

WHEREAS, such a system due to material and soil and root conditions has led deterioration; and

WHEREAS, the Town has developed an annual program of replacement of deteriorated sanitary sewer mains throughout the Town; and

WHEREAS, this will provide for continued reduction in stormwater inflow and infiltration through an effort of preventive maintenance; and

WHEREAS, staff prepared engineering specifications for installation of 1,200 linear feet of trenchless internal lining within the vicinity of the Greenhaven Village and Addison on Brookhaven Apartments and along Beltway Drive, from Midway Road to Belt Line Road; and

WHEREAS, Insituform Technologies submitted the lowest responsive bid; and

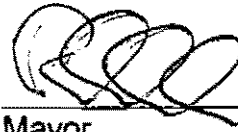
WHEREAS, this bid exceeds the original budgeted amount due to a need to increase the original scope of work to meet the maintenance and repair needs in the project area; and

WHEREAS, Insituform Technologies has successfully completed similar improvements within the Town; now, therefore,

BE IT RESOLVED BY THE CITY COUNCIL OF THE TOWN OF ADDISON:

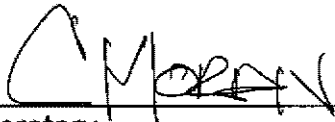
THAT, the City Council of the Town of Addison authorizes the City Manager to enter into a contract in the amount of \$104,320.00 with Insituform Technologies for trenchless internal lining of sanitary sewer lines.

DULY PASSED BY THE CITY COUNCIL OF THE TOWN OF ADDISON, TEXAS, on this the 12<sup>th</sup> day of August, 2003.



Mayor

ATTEST:



City Secretary

Passed  
8-12-03

#R15-1

Council Agenda Item: #R15

**SUMMARY:**

This item is for the award of contract to Insituform Technologies, in the amount of \$104,320.00, for Trenchless Internal Lining of Sanitary Sewer Lines.

**FINANCIAL IMPACT:**

Budgeted Amount: \$72,000.00  
Construction Cost: \$104,320.00  
Source of Funds: Funds are available from FY 2002-03 Water and Sewer Fund, as indicated in the Five Year Capital Replacement Program.

**BACKGROUND:**

A portion of the existing wastewater system in the Town of Addison was constructed in the early 1960's. During this period, the piping material used in construction usually consisted of clay tile, and it was very susceptible to shifting soils and root intrusions. This condition ultimately led to increased stormwater inflow and infiltration, and higher wastewater treatment costs. As a result, an annual program of replacement of deteriorated sanitary sewer mains throughout the Town was adopted. The program provides for continued reduction in stormwater inflow and infiltration through an effort of preventive maintenance. Public Works Department staff prepared engineering specifications for installation of approximately 1,200 linear feet of trenchless internal lining within the vicinity of the Greenhaven Village and Addison on Brookhaven Apartments, and along Beltway Drive, from Midway Road to Belt Line Rd.

Attached is a bid tabulation for this project. The lowest responsive bid was submitted by Insituform Technologies, in the amount of \$104,320.00. This bid exceeds the original budgeted amount due to a determined need by Public Works staff to increase the original scope of work to meet the maintenance and repair needs in the project area. The contractor is nationally recognized as an industry leader in trenchless internal lining of wastewater systems, and has previously performed similar improvements in the Town of Addison.

**RECOMMENDATION:**

Staff recommends that Council authorize the City Manager to enter into a contract with Insituform Technologies, in the amount of \$104,320.00, for Trenchless Internal Lining of Sanitary Sewer Lines.

**Trenchless Internal Lining of Sanitary Sewer Lines**

**BID NO 03-22**

**DUE: July 15, 2003**

**2:00 PM**

BIDDER	SIGNED	BID BOND	Add-1	TOTAL
Insituform Technologies	y	y	y	\$104,320.00
BRH Garver	y	y	y	\$155,045.00
Horseshoe Construction	y	y	y	\$212,400.00

*Minok Sub*

\_\_\_\_\_  
Minok Sub, Purchasing Coordinator

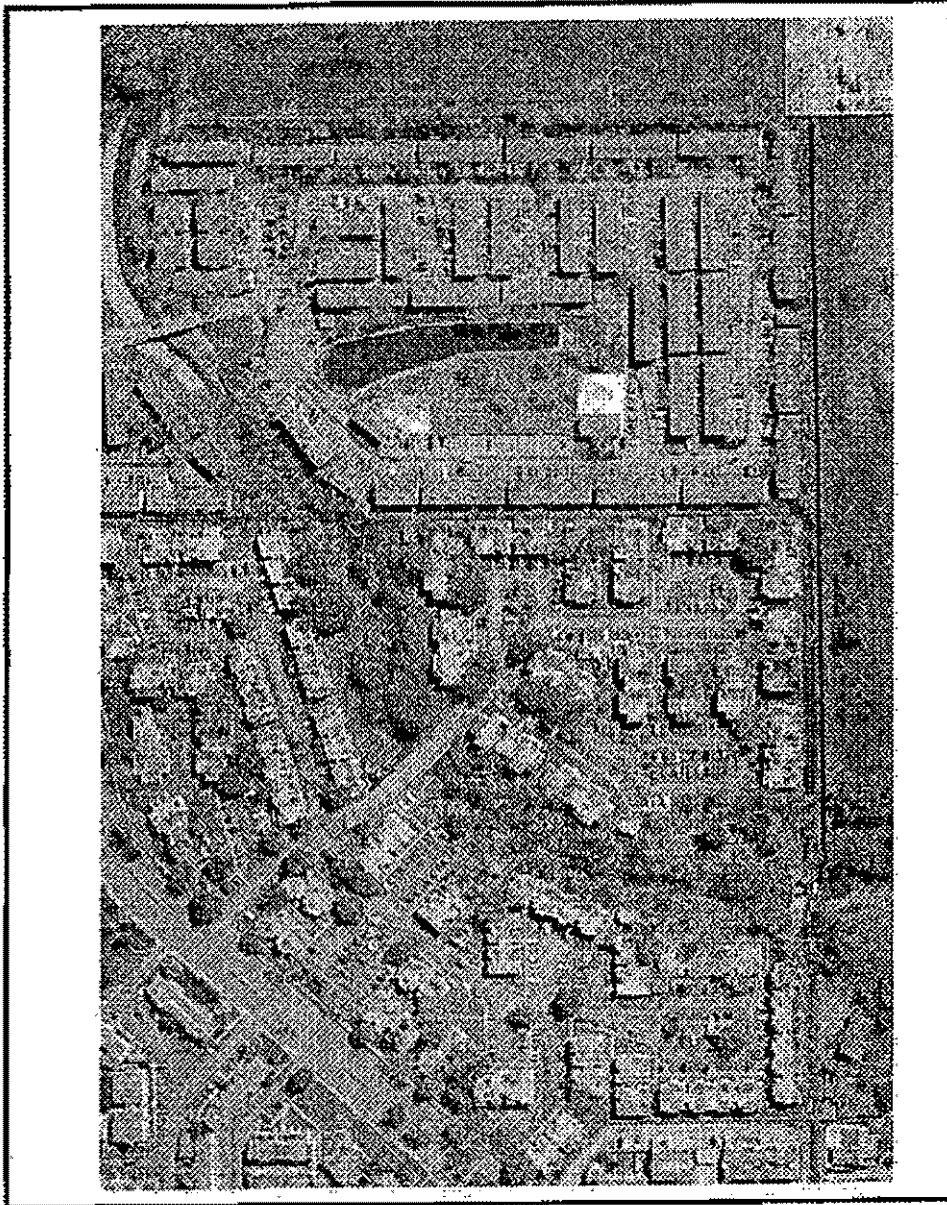
*Corey Gayden*

\_\_\_\_\_  
Corey Gayden, Witness

#R15-2

ESRI ArcExplorer 2.0

Trenchless Internal Lining of Sanitary Sewer Lines



DATE SUBMITTED: August 5, 2003  
FOR COUNCIL MEETING: August 12, 2003

**Council Agenda Item:**

**SUMMARY:**

This item is for the award of contract to Insituform Technologies, in the amount of \$104,320.00, for Trenchless Internal Lining of Sanitary Sewer Lines.

**FINANCIAL IMPACT:**

Budgeted Amount:	\$72,000.00
Construction Cost:	\$104,320.00
Source of Funds:	Funds are available from FY 2002-03 Water and Sewer Fund, as indicated in the Five Year Capital Replacement Program.

**BACKGROUND:**

A portion of the existing wastewater system in the Town of Addison was constructed in the early 1960's. During this period, the piping material used in construction usually consisted of clay tile, and it was very susceptible to shifting soils and root intrusions. This condition ultimately led to increased stormwater inflow and infiltration, and higher wastewater treatment costs. As a result, an annual program of replacement of deteriorated sanitary sewer mains throughout the Town was adopted. The program provides for continued reduction in stormwater inflow and infiltration through an effort of preventive maintenance. Public Works Department staff prepared engineering specifications for installation of approximately 1,200 linear feet of trenchless internal lining within the vicinity of the Greenhaven Village and Addison on Brookhaven Apartments, and along Beltway Drive, from Midway Road to Belt Line Rd.

Attached is a bid tabulation for this project. The lowest responsive bid was submitted by Insituform Technologies, in the amount of \$104,320.00. This bid exceeds the original budgeted amount due to a determined need by Public Works staff to increase the original scope of work to meet the maintenance and repair needs in the project area. The contractor is nationally recognized as an industry leader in trenchless internal lining of wastewater systems, and has previously performed similar improvements in the Town of Addison.

**RECOMMENDATION:**

Staff recommends that Council authorize the City Manager to enter into a contract with Insituform Technologies, in the amount of \$104,320.00, for Trenchless Internal Lining of Sanitary Sewer Lines.



**Trenchless Internal Lining of Sanitary Sewer Lines**

**BID NO 03-22**

**DUE: July 15, 2003**

**2:00 PM**

<b>BIDDER</b>	<b>SIGNED</b>	<b>BID BOND</b>	<b>Add-1</b>	<b>TOTAL</b>
Insituform Technologies	y	y	y	\$104,320.00
BRH Garver	y	y	y	\$155,045.00
Horseshoe Construction	y	y	y	\$212,400.00

*Minok Suh*

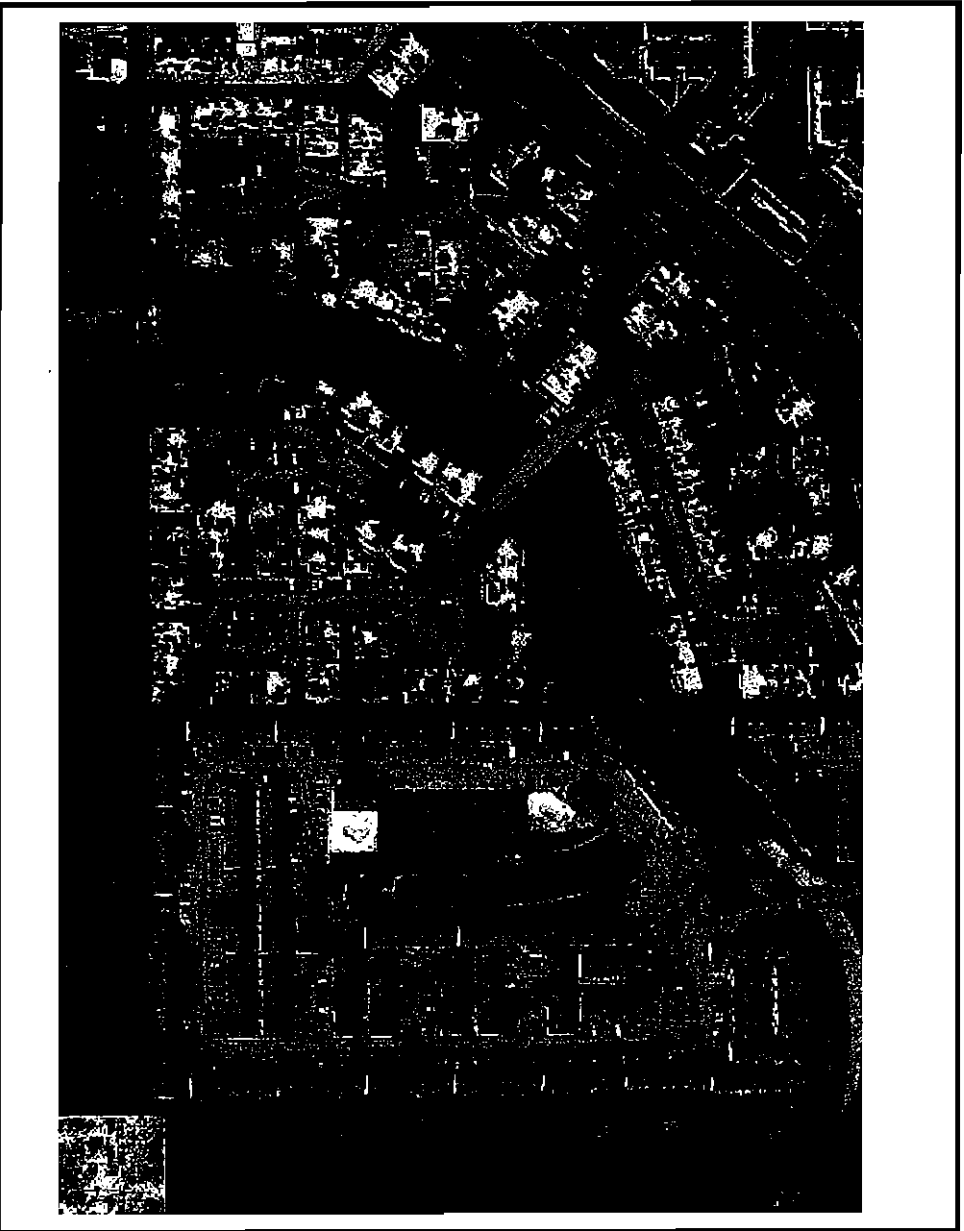
Minok Suh, Purchasing Coordinator

*Corey Gayden*

Corey Gayden, Witness

ESRI ArcExplorer 2.0

### Trenchless Internal Lining of Sanitary Sewer Lines



Tuesday, Aug 5 2003

**BID SPECIFICATION  
FOR  
TRENCHLESS INTERNAL LINING  
OF SANITARY SEWER LINES**

The Town of Addison will accept proposals for the reconstruction of sanitary sewer lines by the installation of a trenchless internal lining process. The project located within the Greenhaven Village and Addison on Brookhaven Apartments (Approximately 1,200 l.f.) and along Beltway Drive, from Midway Road to Belt Line Rd. (Approximately 2,000 l.f.).

**A. INTENT**

It is the intent of this specification to provide for the reconstruction of approximately 3,200 linear feet of existing 8 inch clay tile wastewater main by the installation of a resin-impregnated flexible tube, which is installed into the original conduits by use of a hydrostatic head, and then cured by circulating hot water. The Cured-in Place Pipe (CIPP) will be continuous and tight fitting. The work shall be completed within (30) calendar days from the "Notice to Proceed"

**B. PREQUALIFICATION**

The process (materials, methods, workmanship) must be proven through previous successful installations in other sewer systems to an extent and satisfactory to the Owner. The contractor shall have a minimum of 3 years of related experience using the CIPP method and shall have installed no less than fifty thousand (50,000) linear feet.

**C. REFERENCED DOCUMENTS**

This specification references ASTM F1216 (Rehabilitation of pipeline by inversion and curing of resin-impregnated tube), and ASTM F1743 (Rehabilitation of pipelines by pulled-in-place installation of a cured-in-place thermosetting resin pipe), which are made a part hereof by such reference and shall be the latest edition and revision thereof. In case of conflicting requirements between this specification and these referenced documents, this specification will govern.

**D. MATERIALS**

The minimum length of the tube or liner shall be that deemed necessary by the contractor to produce a finished pipe tightly formed to the existing pipe and which effectively spans from the inlet to the outlet of the respective manholes. The contractor will submit for approval his required minimum wall thickness and his proposed design calculations showing the outside and inside diameter sizing for his CIPP. The wall color of the interior pipe surface of the CIPP, after installation, shall be light reflective color so that a clear detail examination with closed circuit television inspection equipment may be made.

## **(CIPP) cured-in-place-pipe**

- (1) **TUBE** - The tube materials and design consideration shall meet the requirements of ASTM, F-1216- SECTION 5.1, or current ASTM standards.
- (2) The tube shall have a uniform thickness that when compressed at installation pressures will equal the specified tube thickness.
- (3) The tube shall be fabricated to a size that when installed will tightly fit the internal circumference and length of the original pipe. Allowance should be made for circumferential stretching during installation.
- (4) The wall color of the interior pipe surface of the CIPP after installation shall be white or light brown so that a clear detail examination with closed circuit television inspection equipment may be made.
- (5) Resin- The resin system shall meet the requirement of ASTM F1216.

### **E. STRUCTURAL REQUIREMENT**

The CIPP shall be designed as per ASTM F1216, Appendix X.1. The CIPP design shall assume no bonding to the original pipe wall. The Manufacturer shall be responsible for all aspects of the design of the tube/liner and shall guarantee that the installed tube/liner is capable of sustaining outside loads, resisting chemical attack that normally occurs in sanitary sewers, and will maintain hydraulic characteristics over a fifty year design life. The existing sewer shall be considered to be in a fully deteriorated gravity pipe condition and that the original pipe is not structurally sound and cannot support soil and live loads. The tube/liner shall be designed to support hydraulic soil and live loads. The tube/liner shall be designed for the existing 8-inch sanitary sewer, and 8 ft. of groundwater over the pipe. The pipe depth is between 8 and 10 ft. The manufacturer shall make provisions so that the necessary wall thickness will be achieved after the pipe has been expanded to the existing pipe.

1. The CIPP shall conform to the minimum structural standards listed below:

<u>Cured Pipe</u>	<u>Standard</u>	<u>Results</u>
Flexural Stress	ASTM D-790	4,500 psi
Modulus of Elasticity	ASTM D-790	400,000 psi

2. The Polyethylene pipe shall conform to the minimum structural standards listed below:

<b>PIPE MATERIAL TEST</b>	<b>U.S. STANDARD</b>	<b>RESULTS</b>
Flexural Stress (Yield)	ASTM D-638	3,000 psi
Flexural Stress (Break)	ASTM D-638	4,500 psi
Flexural Stress of Elasticity	ASTM D-790	133,000 psi

If inspection reveals an obstruction that cannot be corrected by conventional sewer cleaning equipment, then the contractor shall make a point repair excavation to uncover and remove or

repair such obstruction and replace the existing pipe. Such excavation shall be approved in writing by the Town Of Addison representation prior to the commencement of the work, and shall be considered as a separate pay item.

The contractor shall remove any protruding taps, or obstructions to the inside wall of the pipe. In no case shall the pipe be less than 100 percent open to flow.

## **F. INSTALLATION**

**F.1** CIPP installation shall be in accordance with ASTM F1216, Section 7, or ASTM F1743, Section 6, with the following modifications:

**F.1.1** Resin Impregnation – The quality of resin used for tube impregnation shall be sufficient to fill the volume of air voids in the tube with additional allowances for polymerization shrinkage and the loss of resin through cracks and irregularities in the original pipe wall. A vacuum impregnation process shall be used. To insure thorough resin saturation throughout the length of the felt tube, the point of vacuum shall be no further than 25 feet from the point of initial resin introduction.

After a vacuum in the tube is established, a vacuum point shall be no further than 75 feet from the leading edge of the resin. The leading edge of the resin slug shall be as near to the perpendicular as possible. A roller system shall be used to uniformly distribute the resin throughout the tube. If the Installer uses an alternate resin impregnation, the method must produce the same results. Any alternate resin impregnation method must be proven.

**F.1.2** Tube insertion - The wet tube shall be <sup>positioned</sup> ~~positioned~~ in the pipeline using either inversion or a pull-in-method. If the pulled into place, a power winch should be utilized and care should be taken not to damage the tube as a result of the pull-in friction. The tube should be pulled-in or inverted through an existing manhole or approved access point and fully extend to the next designated manhole or termination point.

**F.1.3** Temperature gauges shall be placed inside the tube at the invert level of each end to monitor the temperatures during the cure cycle.

**F.1.4** Curing shall be accomplished by utilizing hot water under hydrostatic pressure in accordance with the manufacturer's recommended cure schedule.

## **G. REINSTATEMENT OF BRANCH CONNECTIONS**

The present line may have some inactive " Y "s. Active services must be identified by the contractor prior to installing the liners. After the pipe has been relined and tested only existing inactive services connections as shown on the plans or additional services as directed by the

Town shall be disconnected. The reconnection of the service shall be done without excavation, unless otherwise specified by The Town; this will be accomplished from the interior of the pipeline by a television camera directed cutting device. All recut service connections shall be free of burrs and frayed edges, or any restriction preventing free wastewater flow. Location of

the service shall be made by inspection of the pre-construction TV tape and other proven detection methods. Service lines will be reconnected with 100 % of their original capacity. The contractor will provide for temporary pumping for the lateral service line when necessary.

The contractor shall certify that he has a minimum of two (2) complete working units plus spare key components on the job site before each relining. No additional payment will be made for excavations for the purpose of reopening connections and the contractor will be responsible for all cost and liability associated with such excavation and restoration work.

## **H. INSPECTION & TESTING**

The contractor shall perform a television inspection of the completed project. The Town Of Addison shall have a representative present at the time of this inspection. After completion of this project the contractor shall produce a color videotape of the entire line. The contractor shall maintain bypassing operations during this inspection so that the entire inside circumference of the pipe can be viewed.

Prior to expiration of two years from the date of completion, the Town of Addison will make a visual inspection of the project to determine whether corrective work is required. The contractor shall attend such inspection if requested by The Town Of Addison.

Any defect that will affect the flow capacity or structural integrity of the reconstructed pipe shall be repaired or the liner replaced at the contractor's expense. All testing shall be in accordance with standard Town of Addison specifications & shall be subsidiary to the total cost of the project.

## **I. INSTALLATION RESPONSIBILITIES FOR INCIDENTAL ITEMS**

(1) Traffic Control - Traffic Control shall be the responsibility of the contractor and shall conform to the minimum standards in the Texas MUTCD handbook. The contractor shall maintain traffic during working periods. During non-working periods, the contractor shall open the roadway to traffic.

(2) Access - It will be responsibility of the Town Of Addison to locate and designate all manholes access points open and accessible for the work, and provide rights of access to these points. If a street must be closed to traffic because of the orientation of the sewer, the contractor shall institute the actions necessary to do this for the mutually agreed time period.

(3) Water usage - Water is available at City hydrants for cleaning, installation, and other work items requiring water. The system is owned by the Town and the contractor shall obtain a temporary meter from the Town, including a \$900 refundable deposit, and compensate the Town for the amount of water used, at the current commercial rate established per 1000 gallons of usage.

(4) Flow Control Precautions - Precautions must be taken to insure that sewer flow control operations doesn't cause flooding or damage to the public or private property being served by the sewer involved to include **bypass** pumping necessary to maintain mainline flows. The contractor shall be liable for private property damages caused by sewer blockages resulting from Contractor's activities or lack of action to prevent such blockage. The contractor shall be liable for punitive damages should the Town be fined by a regulatory agency because of the contractor's failure to control sewage flow.

(5) The Town has copies of a video inspection of the sewers to be relined that is available for viewing for prospective bidders. However, since the deterioration of sewer is an ongoing process and root, solids and deposits can accumulate over time, the contractor shall base the design of the liner on inspections made immediately prior to installation.

(6) The contractor along with the Towns' representative shall contact the owner/business within the project limits to inform them of project, and provide them with any information deemed necessary for the successful performance of the contract, and to inform them of temporary sewer service disconnection. With this type of sewer line rehabilitation, an interruption of the normal flow of sewage from businesses is expected. The contractor shall be responsible for any special needs of users such as portable toilet facilities.

(7) If the contractor damages the sewer during construction and is unable to complete the lining in a satisfactory manner, the cost of the dig and/ repairs shall be completed at no additional cost to The Town.

#### **J. CLEAN UP**

After the installation work has been completed and all inspected and testing is acceptable, the contractor shall clean up the entire project area and return the ground cover to grade. The contractor shall dispose of all excess material and debris not incorporated into the permanent installation.

The contractor at his expense shall dispose of waste material, which is deemed not reusable by the Town's project representative.

All areas disturbed by the contractors' activities shall be restored to their original condition. The restoration shall include seeding or hydro mulching, as directed by the Town of Addison and replacement of damaged trees, shrubs, etc. The contractor shall water landscaped areas disturbed, until the restoration is well established. All work under this item is considered subsidiary to the total cost of the project.

#### **K. Warranty**

The contractor and the manufacturer shall warranty all materials and workmanship for a period of 2 (Two) years. The warranty shall cover, but will not be limited to the following.

(a) Defects discovered in material used in the project.

- (b) Failure of liner to remain formed to the previously existing sewer line.
- (c) Lateral connections that are restricted due to shrinkage in the liner.

**L. Payment**

Payment for the work included in this section will be in accordance with the price set for in the proposal for the quantity of work performed.

**M. Bid Bond**

The Contractor shall furnish a bid bond of not less than 5% of the amount of the bid.

**N. Insurance**

The successful contractor shall furnish Workers Compensation, Commercial General Liability, Comprehensive Automobile and Truck Liability, and Owners Protective Liability Insurance in accordance with North Central Texas Council of Governments Standard Specifications for Public Works Construction, Third Edition, Paragraphs 1.26.1, 1.26.2, and 1.26.5.

**O. Pre-Bid Meeting**

A **Mandatory** Pre-Bid meeting will be held at **2:00 p.m. on June \_\_\_\_\_, 2003** at the Addison Service Center, 16801 Westgrove, Addison, Texas, 75001, (972) 450-2871. **All bidders are required to attend.** Lack of attendance will be considered non-responsive and a bid will not be accepted from anyone not attending.

**P. BIDDING**

The Town of Addison will expect at least 75% of the work to be performed by the Bidding Contractor. Extensive brokering or subletting is not permitted. All bidders must submit, with their bid, satisfactory documentation of the contractors minimum requirements of 3 years related experience using the CIPP and no less than fifty thousand (50,000) linear feet installed.



**TRANSMITTAL OF ADDENDUM**

\*\*\*\*\*

**INSTRUCTIONS:**

Acknowledge receipt of Addenda with the form below, please FAX to (972) 450-7096 upon receipt.

\*\*\*\*\*

**Addendum Acknowledgment      Should be faxed to (972) 450-7096**

I Acknowledge the receipt of Addendum No.:      1      Total # Pages:      2

Town of:      ADDISON, TEXAS

Project Name:      03-22 Trenchless Internal Lining of Sanitary Sewer Lines

By Facsimile Transmission on this date:      July 14, 2003

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

<b>Company Name:</b>	
<b>Signed By:</b>	
<b>Signature:</b>	
<b>Date:</b>	

**PLEASE SIGN & FAX THIS PAGE  
BACK TO TOWN OF ADDISON**

(As verification that you received this update)

972-450-7096

**Addendum 1**  
**Bid 03-22 Trenchless Internal Lining of Sanitary Sewer Lines**  
**Due: July 15, 2003 at 2:00 PM**

Bid Opening time has NOT changed.

The following item can be deleted from specification, since it does not pertain to the bid:

**Section E. Structural Requirement**

2. The Polyethylene pipe shall conform to the minimum structural standards listed below:

<b>PIPE MATERIAL TEST</b>	<b>U.S. STANDARD</b>	<b>RESULTS</b>
Flexural Stress (Yield)	ASTM D-638	3,000 psi
Flexural Stress (Break)	ASTM D-638	4,500 psi
Flexural Stress of Elasticity	ASTM D-790	133,000 psi

END OF ADDENDUM 1

**ADVERTISEMENT FOR BIDS**

**Bid # 03-22**

The Town of Addison is requesting bids for Trenchless Internal Lining of Sanitary Sewer Lines, Bid No. 03-22. Mandatory Pre bid meeting, July 8, 2003 at 9:00 am, Service Center, 16801 Westgrove. Bids will be accepted until 2:00pm, July 15, 2003 at in the office of the Purchasing Coordinator, 5350 Belt Line Rd., Addison, Texas 75254 at which time they will be publicly opened and read aloud. Late bids will not be considered and will be returned unopened.

The Town of Addison reserves the right to waive any formalities and to reject any or all bids and to select the bid deemed most advantageous to the City. Specifications and bid information are available on [www.demandstar.com](http://www.demandstar.com).

**Steve Chutchian**

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**From:** Minok Suh  
**Sent:** Tuesday, May 27, 2003 4:57 PM  
**To:** Luke Jalbert  
**Cc:** Steve Chutchian; Jerry Davis; Jim Pierce  
**Subject:** 03-22 Trenchless Internal Lining of Sanitary Sewer Lines

Bid No - 03-22  
Bid Name - Trenchless Internal Lining of Sanitary Sewer Lines

First Ad June 27  
Second Ad July 4  
Mandatory Pre Bid Meeting - July 8, 2003 at 9am, Service Center  
Bid Opening - July 15, 2003 at 2:00pm, Finance.  
Council ? - August 12

Est Budget \$150,000.00

*A Grada  
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Pre-Bid  
ATK*

LOCATION OF  
PROJ. SECT AS  
NOT DEFINED!

Steve  
my  
Comments  
Jim

# BID SPECIFICATION FOR TRENCHLESS INTERNAL LINING OF SANITARY SEWER LINES

The Town of Addison will accept proposals for the reconstruction of sanitary sewer lines by the installation of a trench less internal lining process.

## A. INTENT

It is the intent of this specification to provide for the reconstruction of 3,200 <sup>APPROX. L.F.</sup> ft. of 8 inch. clay tile wastewater main by the installation of a resin-impregnated flexible tube, which is installed into the original conduits by use of a hydrostatic head, and then cured by circulating hot water. The Cured-in Place (CIPP) will be continuous and tight fitting. The work shall be completed within (30) calendar days from the "Notice to Proceed"

Pipe

## B. PREQUALIFICATION

The process (materials, methods, workmanship) must be proven through previous successful installations in other sewer systems to an extent and satisfactory to the Owner. The contractor shall have a minimum to 3 years experience using the CIPP and shall have installed no less than fifty thousand (50,000) feet.

LINEAR OF OF RELATED PROCEDURE

## C. REFERENCED DOCUMENTS

This specification references ASTM F1216 (Rehabilitation of pipeline by inversion and curing of rein-impregnated tube) and ASTM F1743 (Rehabilitation of pipelines by pulled-in-place installation of a cured-in-place thermosetting resin pipe), which are made a part hereof by such reference and shall be the latest edition and revision thereof. In case of conflicting requirements between this specification and these referenced documents, this specification will govern.

## D. MATERIALS

The minimum length of the tube or liner shall be that deemed necessary by the contractor to produce a finished pipe tightly formed to the existing pipe and which effectively spans the inlet to the outlet of the respective manholes. The contractor will submit for approval his required minimum wall thickness and his proposed design calculations showing the outside and inside diameter sizing for his CIPP. The wall color of the interior pipe surface of the CIPP after installation shall be light reflective color so that a clear detail examination with closed circuit television inspection equipment may be made.

from

Set UP PRE-BID  
MTG.

## **(CIPP) cured-in-place-pipe**

- (1) **TUBE** - The tube materials and design consideration shall meet the requirements of ASTM, F-1216- SECTION 5.1, or current ASTM standards.
- (2) The tube shall have a uniform thickness that when compressed at installation pressures will equal the specified tube thickness.
- (3) The tube shall be fabricated to a size that when installed will tightly fit the internal circumference and length of the original pipe. Allowance should be made for circumferential stretching during installation.
- (4) The wall color of the interior pipe surface of the CIPP after installation shall be white or light brown so that a clear detail examination with closed circuit television inspection equipment may be made.
- (5) **Resin**- The resin system shall meet the requirement of ASTM F1216.

### **E. STRUCTURAL REQUIREMENT**

The CIPP shall be designed as per ASTM F1216, Appendix X.1. The CIPP design shall assume no bonding to the original pipe wall. The Manufacturer shall be responsible for all aspects of the design of the tube/liner and shall guarantee that the installed tube/liner is capable of sustaining outside loads, resist<sup>ing</sup> chemical attack that normally occurs in sanitary sewers, and will maintain hydraulic characteristics over a fifty year design life. The existing sewer shall be considered to be in a fully deteriorated gravity pipe condition and that the original pipe is not structurally sound and cannot support soil and live loads. The tube/liner shall be designed to support hydraulic, soil and live loads. The tube/liner shall be designed for the existing 8-inch sanitary sewer, and 8 ft. of groundwater over the pipe. The pipe depth is between 8 and 10 ft. The manufacturer shall make provisions so that the necessary wall thickness will be achieved after the pipe has been expanded to the existing pipe.

1. The CIPP shall conform to the minimum structural standards listed below:

<u>Cured Pipe</u>	<u>Standard</u>	<u>U.S. Standards</u>	<u>Results</u>
Flexural Stress		ASTM D-790	4,500 psi
Modulus of Elasticity		ASTM D-790	400,000 psi

2. The Polyethylene pipe shall conform to the minimum structural standards listed below:

<b>PIPE MATERIAL TEST</b>	<b>U.S. STANDARD</b>	<b>RESULTS</b>
Flexural Stress (Yield)	ASTM D-638	3,000 psi
Flexural Stress (Break)	ASTM D-638	4,500 psi
Flexural Stress of Elasticity	ASTM D-790	133,000 psi

~~ALL POINT REPAIRS SHALL~~

REPLACE EXIST PIPE - any

If inspection reveals an obstruction that cannot be corrected by conventional sewer cleaning equipment, then the contractor shall make a point repair excavation to uncover and remove or repair such obstruction. Such excavation shall be approved in writing by the Town Of Addison representation prior to the commencement of the work, and shall be considered as a separate pay item.

The contractor shall remove the protruding tap, or obstruction to the inside wall of the pipe. In no case shall the pipe be less than 100 percent open to flow.

**F. INSTALLATION**

**F.1** CIPP installation shall be in accordance with ASTM F1216, Section 7, or ASTM F1743, Section 6, with the following modifications:

**F.1.1** Resin Impregnation – The quality of resin used for tube impregnation shall be sufficient to fill the volume of air voids in the tube with additional allowances for polymerization shrinkage and the loss of resin through cracks and irregularities in the original pipe wall. A vacuum impregnation process shall be used. To insure thorough resin saturation throughout the length of the felt tube, the point of vacuum shall be no further than 25 feet from the point of initial resin introduction.

After vacuum in the tube is established, a vacuum point shall be no further than 75 feet from the leading edge of the resin. The leading edge of the resin slug shall be as near to the perpendicular as possible. A roller system shall be used to uniformly distribute the resin throughout the tube. If the Installer uses an alternate resin impregnation, the method must produce the same results. Any alternate resin impregnation method must be proven.

**F.1.2** Tube insertion - The wet tube shall be poisoned in the pipeline using either inversion or a pull-in-method. If the pulled into place, a power winch should be utilized and care should be taken exercised not to damage the tube as a result of the pull-in friction. The tube should be pulled-in or inverted through an existing manhole or approved access point and fully extend to the next designated manhole or termination point.

**F.1.3** Temperature gauges shall be placed inside the tube at the invert level of each end to monitor the temperatures during the cure cycle.

**F.1.4** Curing shall be accomplished by utilizing hot water under hydrostatic pressure in accordance with the manufacturer's recommended cure schedule.

**G. REINSTATEMENT OF BRANCH CONNECTIONS**

The present line may have some inactive " Y "s. Active services must be identified by the contractor prior to installing the liners. After the pipe has been relined and tested only existing inactive services connections as shown on the plans or additional services as directed by the

Town shall be disconnected. The reconnection of the service shall be done without excavation, unless otherwise specified by The Town; this will be accomplished from the interior of the pipeline by a television camera directed cutting device. All recut service connections shall be free of burrs and frayed edges, or any restriction preventing free wastewater flow. Location of the service shall be made by inspection of the pre-construction TV tape and other proven detection methods. Service lines will be reconnected with 100 % of their original capacity. The contractor will provide for temporary pumping for the lateral service line when necessary.

The contractor shall certify that he has a minimum of two (2) complete working units plus spare key components on the job site before each relining. No additional payment will be made for excavations for the purpose of reopening connections and the contractor will be responsible for all cost and liability associated with such excavation and restoration work.

#### **H. INSPECTION & TESTING**

The contractor shall perform a television inspection of the completed project. The Town Of Addison shall have a representative present at the time of this inspection. After completion of this project the contractor shall produce a color videotape of the entire line. The contractor shall maintain bypassing operations during this inspection so that the entire inside circumference of the pipe can be viewed.

Prior to expiration of two years from the date of completion, the Town of Addison will make a visual inspection of the project to determine whether corrective work is required. The contractor shall attend such inspection if requested by The Town Of Addison.

Any defect that will affect the flow capacity or structural integrity of the reconstructed pipe shall be repaired or the liner replaced at the contractor's expense.

*ALL TESTING SHALL BE IN ACCORDANCE WITH TOWN OF ADDISON STANDARD SPECIFICATIONS & SHALL BE SUBSIDIARY TO TOTAL COST OF PROJECT.*

#### **I. INSTALLATION RESPONSIBILITIES FOR INCIDENTAL ITEMS**

(1) Traffic Control - Traffic Control shall be the responsibility of the contractor and shall conform to the minimum standards in the Texas MUTCD handbook. The contractor shall maintain traffic during working periods. During non-working periods, the contractor shall open the roadway to traffic.

(2) Access - It will be responsibility of the Town Of Addison to locate and designate all manholes access points open and accessible for the work, and provide rights of access to these points. If a street must be closed to traffic because of the orientation of the sewer, the contractor shall institute the actions necessary to do this for the mutually agreed time period.



From the Town, including a \$900 REFUNDABLE DEPOSIT,

(3) Water usage - Water is available at City hydrants for cleaning, installation, and other work items requiring water. The system is owned by the Town and the contractor shall obtain a temporary meter and compensate the Town for the amount of water used, AT THE CURRENT ~~PER~~

(4) Flow Control Precautions - Precautions must be taken to insure that sewer flow control operations doesn't cause flooding or damage to the public or private property being served by the sewer involved to include bypass pumping necessary to maintain mainline flows. The contractor shall be liable for private property damages caused by sewer blockages resulting from Contractor's activities or lack of action to prevent such blockage. The contractor shall be liable for punitive damages should the Town be fined by a regulatory agency because of the contractor's failure to control sewage flow.   
COMMERCIAL RATE ESTABLISHED PER 1000 GALLONS OF USAGE.

(5) The Town has copies of a video inspection of the sewers to be relined that is available for viewing for prospective bidders. However, since the deterioration of sewer is an ongoing process and root, solids and deposits can accumulate over time, the contractor shall base the design of the liner on inspections made immediately prior to installation.

(6) The contractor along with the Towns' representative shall contact the owner/business within the project limits to inform them of project, and provide them with any information deemed necessary for the successful performance of the contract, and to inform them of temporary sewer service disconnection. With this type of sewer line rehabilitation, an interruption of the normal flow of sewage from businesses is expected. The contractor shall be responsible for any special needs of users such as portable toilet facilities.

(7) If the contractor damages the sewer during construction and is unable to complete the lining in a satisfactory manner, the cost of the dig and/ repairs shall be completed at no additional cost to The Town.

**J. CLEAN UP**

After the installation work has been completed and all inspected and testing is acceptable, the contractor shall clean up the entire project area and return the ground cover to grade. The contractor shall dispose of all excess material and debris not incorporated into the permanent installation.

The contractor at his expense shall dispose of waste material, which is deemed not reusable by the Town's project representative.

All areas disturbed by the contractors' activities shall be restored to their original condition. The contractor shall water landscaped areas disturbed, until the restoration is well established.

ALL WORK UNDER THIS ITEM IS CONSIDERED SUBSIDIARY TO TOTAL COST OF PROJECT. Page 5.

THE RESTORATION SHALL INCLUDE SEEDING OR HYDRONAL (AS DIRECTED BY THE TOWN) OF ADDISON & REPLACEMENT OF DAMAGED TREES, SHRUBS, etc.

**K. Warranty**

The contractor and the manufacturer shall warranty all materials and workmanship for a period of 2 (Two) years. The warranty shall cover, but will not be limited to the following.

- (a) Defects discovered in material used in the project.
- (b) Failure of liner to remain formed to the previously existing sewer line.
- (c) Lateral connections that are restricted due to shrinkage in the liner.

**L. Payment**

Payment for the work included in this section will be in accordance with the price set for in the proposal for the quantity of work performed.

*handwritten scribble*

**L. Bid Bond**

Contractor shall furnish bid bond of not less than 5% of amount of bid.

The successful contractor shall furnish a performance bond for 100% of amount bid and shall include a one year warranty on the work.

**M. Insurance**

The successful contractor shall furnish Workers Compensation, Commercial General Liability, Comprehensive Automobile and Truck Liability, and Owners Protective Liability Insurance in accordance with North Central Texas Council of Governments Standard Specifications for Public Works Construction, Third Edition, Paragraphs 1.26.1, 1.26.2., and 1.26.5.

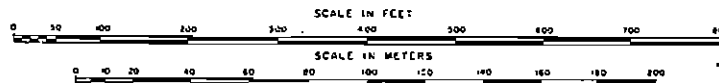
~~MAINTENANCE BOND~~

~~CONTRACTOR SHALL FURNISH A ONE (1) YEAR MAINTENANCE BOND.~~



**Dallas Aerial Surveys, Inc.**  
Aerial Photography and Mapping Services

REVISIONS AUG. 1988  
Computed from aerial photographs taken February 25 1986 with the Wild RC-8 camera. Horizontal and vertical control was extended from existing U.S. Coast and Geodetic Survey monuments. Further detailization was performed by Aero-Triangulation using the Wild BC-1 Aviolet.



Grid lines and values shown are based on the Texas State Coordinate System, North Central Zone.

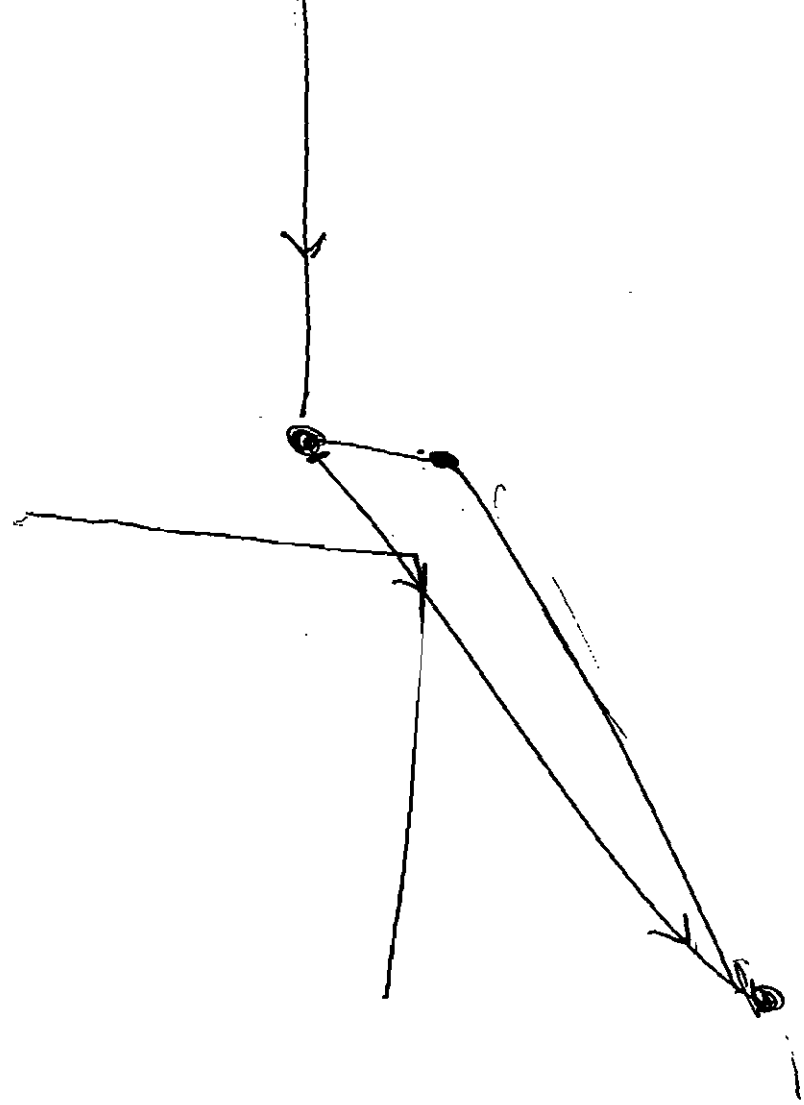
**LEGEND**

- Sanitary Sewer Line (Size indicated)
- Manhole
- Sanitary Sewer Meter Station
- Sanitary Sewer Lift Station
- Force Main



**SEWER**  
**GINN, INC.**  
Consulting Engineers  
Rev.

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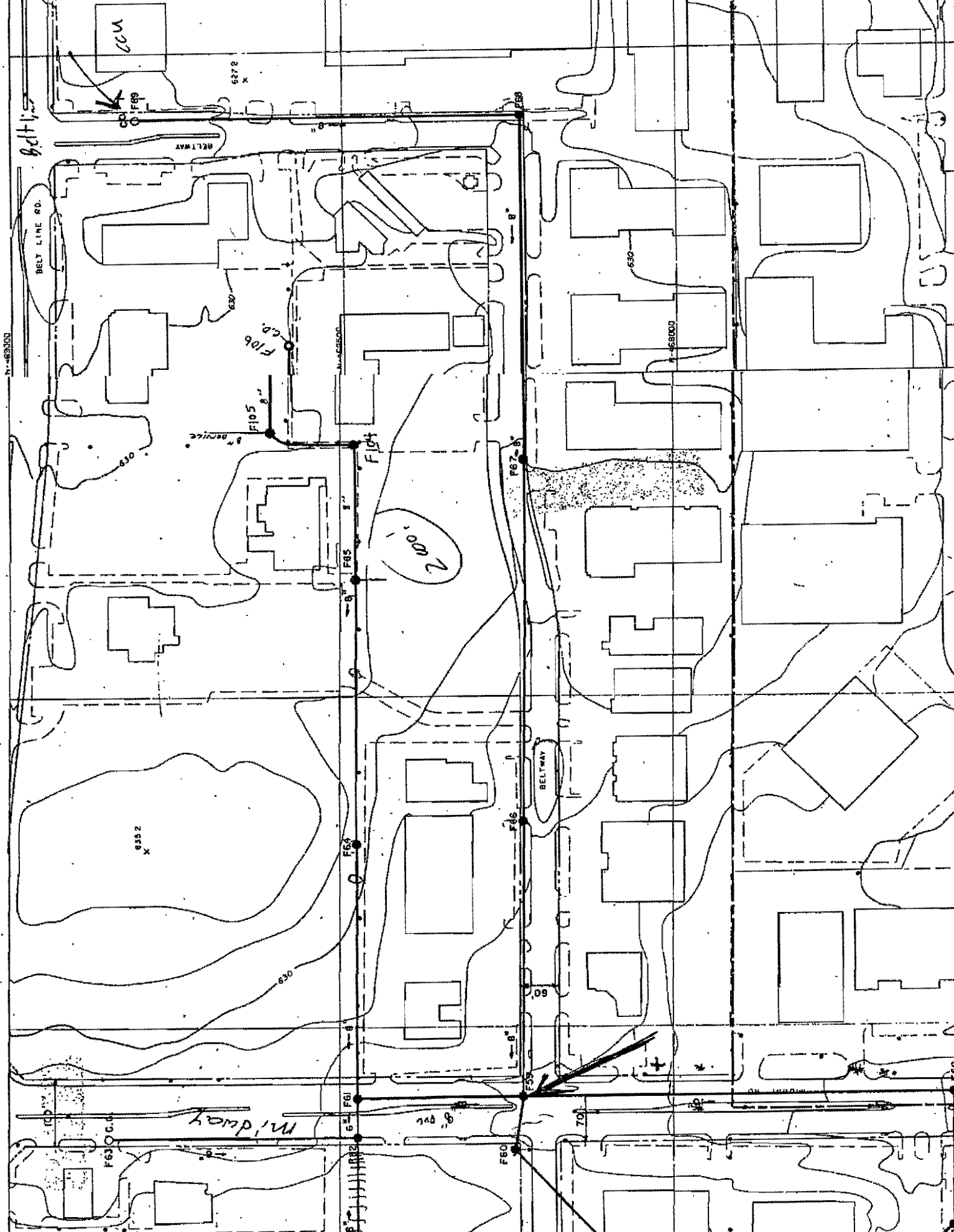
# Brookhaven TVing

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N-68300

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**ADDENDUM No. 1**

**TRENCHLESS INTERNAL LINING OF SANITARY SEWER LINES**

**BID No. 01-41**

**Bid opening: September 11, 2001, 2:00PM**

**NOTICE: Bidders are hereby notified of the following additions, deletions, and/or changes to the plans, specifications, and bid documents.**

**1) RE: Town of Addison Instructions to Bidders**

**Section 6.0 BIDDING**

Please add the following:

"6.2 The Town of Addison will expect at least 75% of the work to be done by the Bidding Contractor. Extensive brokering or subletting is not permitted."

**2) RE: Bid Specification for Trenchless Internal Lining of Sanitary Sewer Lines**

**Section B. PREQUALIFICATION**

Please add the following:

"In addition to the qualification submittals required with the bid as referenced in Section 7.2, Award of Contract, all bidders must also submit, with their bid, satisfactory documentation of the contractors minimum requirements of 3 years experience using the CIPP and no less than fifty thousand (50,000) feet installed."

**3) RE: BID FORM**

Please replace the section below the dotted line with the attached revised Bid Form, and submit both documents with your bid. The portion above the dotted line of the original Bid Form must be completed.

**END OF ADDENDUM**

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

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

→ PRE - BID note