

**DWU - Farmers Branch
16" Water Line Interconnect
Town of Addison, Texas**

Engineer's Opinion of Probable Cost

Item No.	Item Description	Units	Quantity	Unit Cost	Total Cost
1	Mobilization	LS	1	\$ 15,000.00	\$ 15,000.00
2	16" Concrete Cylinder Pipe, including appurtenances and necessary excavation and backfill, complete and in place	LF	20	\$ 125.00	\$ 2,500.00
3	Concrete Thrust Blocking	CY	2	\$ 150.00	\$ 300.00
4	60" x 16" Saddle & Service (per Hanson)	EA	1	\$ 9,560.00	\$ 9,560.00
5	18" x 16" Saddle & Service (per Hanson)	EA	1	\$ 4,390.00	\$ 4,390.00
6	16" Tapping Valve, complete and in place	EA	2	\$ 5,000.00	\$ 10,000.00
7	10" Reinforced Concrete Paving Remove / Replace, including subgrade preparation, complete and in place	SY	30	\$ 70.00	\$ 2,100.00
8	Erosion Control	LS	1	\$ 1,000.00	\$ 1,000.00
9	Traffic Control Plan preparation and implementation	LS	1	\$ 8,000.00	\$ 8,000.00
10	Trench Safety Design and Implementation	LS	1	\$ 2,000.00	\$ 2,000.00
11	Sod	SY	30	\$ 15.00	\$ 450.00
<i>Sub-Total</i>					\$ 55,300.00
<i>10% Contingency</i>					\$ 5,530.00
<i>Total Bid</i>					\$ 60,830.00

Feb 8 2005

DWU - Farmers Branch
16" Water Line Interconnect
Town of Addison, Texas

Date: _____

Item No.	Item Description	Units	Quantity	Unit Cost	Total Cost
1	Mobilization	LS	1	\$13,200.00	\$ 13,200.00
2	16" Concrete Cylinder Pipe, including appurtenances and necessary excavation and backfill, complete and in place	LF	20	\$ 860.00	\$ 17,200.00
3	Concrete Thrust Blocking	CY	2	\$ 350.00	\$ 700.00
4	60" x 16" Saddle & Service (per Hanson)	EA	1	\$ 9,560.00	\$ 9,560.00
5	18" x 16" Saddle & Service (per Hanson)	EA	1	\$ 4,390.00	\$ 4,390.00
6	16" Tapping Valve, complete and in place	EA	2	\$11,900.00	\$ 23,800.00
7	10" Reinforced Concrete Paving Remove / Replace, including subgrade preparation and curb and gutter, complete and in place	SY	30	\$ 125.00	\$ 3,750.00
8	Erosion Control	LS	1	\$ 1,320.00	\$ 1,320.00
9	Traffic Control Plan implementation and maintenance	LS	1	\$ 4,000.00	\$ 4,000.00
10	Trench Safety Design and Implementation	LS	1	\$ 1,350.00	\$ 1,350.00
11	Sod	SY	30	\$ 50.00	\$ 1,500.00
				Total Bid Alternate No. 1	\$ 80,770.00

Notes:

- Item Numbers 4 and 5 are fixed costs.

EXCLUSIONS:

- BOND
- IMPACT FEES WTR & SEWER
- STAKING/ENGINEERING
- PERMITS
- STORM WTR PERMIT
- LAB.(MATERIAL TESTING)
- RAILROAD INSURANCE
- TEMPORARY PAVING
- DETOURS

INCLUDES:

- BARRICADES
- HAIL OFF CONCRETE&ASPHALT
- SAW CUTTING
- FINAL ADJ. VALVES & MANHOLES
- PAVEMENT REPLACEMENT (INCLUDED CTS or FLOWFILL to subgrade for backfill for backfill)
- PORT A CAN
- EROSION CONTROL
- INCLUDES MANHOLE ON 16" Vertical gate valve w/ bypass
- HAIL OFF SPOILS (DIRT & ROCK)
- APPLICABLE TAXES
- COMPLETING WORK IN WORKING DAYS

ANY QUESTIONS PLEASE CALL

- Brad Lands
- OFFICE (972) 962-3400 Ext 102
- MOBILE (214) 502-0935

**DWU - Farmers Branch
16" Water Line Interconnect
Town of Addison, Texas**

Date: February 4, 2005

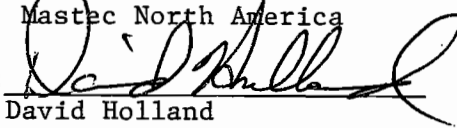
Item No.	Item Description	Units	Quantity	Unit Cost	Total Cost
1	Mobilization	LS	1	\$3,000.00	\$3,000.00
** 2	16" Concrete Cylinder Pipe, including appurtenances and necessary excavation and backfill, complete and in place	LF	20	\$1,000.00	\$20,000.00
3	Concrete Thrust Blocking	CY	2	\$250.00	\$ 500.00
4	60" x 16" Saddle & Service (per Hanson)	EA	1	\$9,560.00	\$ 9,560.00
5	18" x 16" Saddle & Service (per Hanson)	EA	1	\$4,390.00	\$ 4,390.00
6	16" Tapping Valve, complete and in place	EA	2	\$8,500.00	\$17,000.00
7	10" Reinforced Concrete Paving Remove / Replace, including subgrade preparation and curb and gutter, complete and in place	SY	30	\$200.00	\$ 6,000.00
8	Erosion Control	LS	1	\$ 750.00	\$ 750.00
9	Traffic Control Plan implementation and maintenance	LS	1	\$2,570.00	\$ 2,570.00
10	Trench Safety Design and Implementation	LS	1	\$3,000.00	\$ 3,000.00
11	Sod	SY	30	\$30.00	\$ 900.00
Total Bid Alternate No. 1					\$67,670.00

Notes:

1. Item Numbers 4 and 5 are fixed costs.

** The price quoted for item # 2 includes no provision for fittings.

Mastec North America

By: 
David Holland
Senior Vice President



January 20, 2005

Michael E. Murphy, P.E.
Director of Public Works
P.O. Box 9010
Addison, Texas 75001-9010

RE: Water System Interconnection Between Addison and Farmers Branch

Dear Mr. Murphy,

As you are aware, construction of the interconnection which connects water systems between Addison and Farmers Branch was completed on Friday January 14, 2005. Testing of the interconnection began at approximately 3:00 p.m. on Friday with the 8" connection being fully opened. This testing showed that Addison could furnish approximately 1,350 gpm to Farmers Branch through the connection and raise our system pressure approximately 4 psi. A 3,000-gpm pump at the Celestial Pump Station was running when these conditions were noted. No pumps were running from the Farmers Branch system and our Elevated Tower was at 21.3 feet of 42.5 feet or approximately 50% full.

At this time, we started Pump #4 "our largest" pump available at our Templeton Trail Pump Station to begin the refill cycle of our Elevated Tower and to maintain system pressure. Other additional pumps were also put on line in conjunction with Pump #4 but system pressure did not increase.

The end result filled our Valley View Elevated tank to 38 of 42.5 feet in approximately 17 hours at 9:11 p.m. Saturday January 15. At 3:00 a.m. Sunday January 16th, the elevated tank was full at 42.5 feet, some 23 hours in total since beginning the test. At this rate of fill any main break or system failure would severely affect our ability to supply water to the east side of the City.

At this point the Templeton Station was started again using pump #3, which would replace pump #4, "our largest" in the event it became inoperable. It was determined that even under "Sundays low demand" pump #3 could not hold up the elevated tower.

We continued testing and operating the system with the Addison connection fully open and Templeton Pump Station online until approximately 3:30 p.m. Tuesday January 18th at which time we switched back to our Marsh Lane Pump Station.

Prior to stopping the test, Addison and Farmers Branch met at the interconnection site and took pressure readings with two pumps running in Addison, a 3,000 gpm pump and a 7,000 gpm pump.

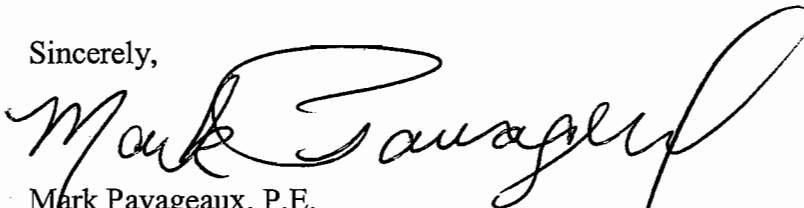
The pressure on Addison's side of the meter was approximately 69 psi. Pressure did not increase on the Farmers Branch side and the maximum volume passing through the meter was 1,250 gpm, during this test. Basically, no significant change was realized in the Farmers Branch system with the two pumps in operation.

In conclusion, based on the results of testing our water system both with and without the Addison / Farmers Branch interconnection, we simply cannot agree to the shut down of the 60' DWU water main at this time.

Farmers Branch is very interested in continuing to work together with Addison and the City of Dallas to find other possible options that would ensure our systems capability and reliability during the lowering of the DWU 60" water main.

Please contact me at your convenience.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Pavageau". The signature is fluid and cursive, with a large loop at the end of the last name.

Mark Pavageaux, P.E.
Director of Public Works

Cc: Greg Vick, Assistant City Manager
Richard Cannon, Engineering Specialist
Roy Smallwood, Superintendent of Utilities

Davis Excavation, Inc.

• P.O. Box 1169 • Van Alstyne, Texas 75495 • (214) 733-8042 • (214) 733-8043 Fax

14-Jan-05

Mr. Jim Pierce, P.E.
Asst. Public Works Director
Town Of Addison
P.O. Box 9010
Addison, TX 75001

Re: Water Vault / 15001 E. Beltwood Parkway

Dear Mr. Pierce,

Attached is the Invoice for the Water Vault installation you authorized Davis to perform. This work was completed on 13-Jan-05. The installation exceeded the 8 hour minimum due to the fact that Davis had to relocate an existing water line to accommodate the vault. The installation took a total of 12.5 hours to complete. We have invoiced the additional 4.5 hours at \$350.00 as noted in our 12-Jan-05 Bid. Please give me a call if you have any questions concerning the work and/or attached Invoice.

We appreciate the opportunity to work with the Town Of Addison once again and hope that you will contact us on your future excavation or utility needs.

Sincerely,



Mark Brandenburg
EVP

Attachment – Invoice #910-1

Davis Excavation, Inc.

P.O. Box 1169
 Van ALstyne, TX 75495
 (214)733-8042 ofc
 (214)733-8043 fax

Invoice

Date	Invoice #
1/14/2005	910-1

Bill To
Town of Addison 5350 Belt Line Rd Addison, Texas 75001

P.O. No.	Terms
	Net 30

Description	Qty	Rate	Amount
Mobilization	1	1,500.00	1,500.00
8" Water Meter Vault Assembly	1	5,200.00	5,200.00
Tapping Sleeve	1	765.81	765.81
Pipe & Material	1	2,107.25	2,107.25
Trucking/Haul Off	1	450.00	450.00
Labor/Equipment (8hrs @ \$350/hr minimum)	8	350.00	2,800.00
Additional Labor/Equipment (4.5 hrs @ \$350/hr)	4.5	350.00	1,575.00
~~~~~ CHANGE ORDER ~~~~~			
January 134, 2005			
> Additional Labor/Equipment(4.5 hrs @ \$350/hr) 0203 Water.			
(+ \$1,575.00)			
Net change to estimate +\$1,575.00			
~~~~~			
Project: 15001 Beltwood Parkway - Water Vault for Addison/Farmers Branch Connection			

*OK to pay
 Jeffrey
 1-21-05*

Total	\$14,398.06
Payments/Credits	\$0.00
Balance Due	\$14,398.06

HP LaserJet 3200se



HP LASERJET 3200

JAN-17-2005 4:19PM

Fax Call Report

Job	Date	Time	Type	Identification	Duration	Pages	Result
349	1/17/2005	4:19:05PM	Send	99722416305	0:47	1	OK

*Mark Parageaux
Farmers Branch
Fax 972-241-6305*

Water Distribution
§290.44

§290.44(f)(2) Special precautions must be taken when waterlines are laid under any flowing or intermittent stream or semipermanent body of water such as marsh, bay, or estuary. In these cases, the water main shall be installed in a separate watertight pipe encasement and valves must be provided on each side of the crossing with facilities to allow the underwater portion of the system to be isolated and tested to determine that there are no leaks in the underwater line. Alternately, and with the permission of the executive director, the watertight pipe encasement may be omitted.

§290.44(f)(3) New mains shall be thoroughly disinfected in accordance with AWWA Standard C651 and then flushed and sampled before being placed in service. Samples shall be collected for microbiological analysis to check the effectiveness of the disinfection procedure. Sampling shall be repeated if contamination persists. A minimum of one sample for each 1,000 feet of completed waterline will be required or at the next available sampling point beyond 1,000 feet as designated by the design engineer.

→ §290.44(g) Interconnections.

§290.44(g)(1) Each proposal for a direct connection between public drinking water systems under separate administrative authority will be considered on an individual basis.

§290.44(g)(1)(A) Documents covering the responsibility for sanitary control shall accompany the submitted planning material.

§290.44(g)(1)(B) Each water supply shall be of a safe, potable quality.

§290.44(g)(2) Where an interconnection between systems is proposed to provide a second source of supply for one or both systems, the system being utilized as a second source of supply must be capable of supplying a minimum of 0.35 gallons per minute per connection for the total number of connections in the combined distribution systems.

§290.44(h) Backflow, siphonage.

§290.44(h)(1) No water connection from any public drinking water supply system shall be allowed to any residence or establishment where an actual or potential contamination hazard exists unless the public water facilities are protected from contamination.

§290.44(h)(1)(A) At any residence or establishment where an actual or potential contamination hazard exists, additional protection shall be required at the meter in the form of an air gap or backflow prevention assembly. The type of backflow prevention assembly required shall be determined by the specific potential hazard identified in §290.47(i) of this title (relating to Appendices).

§290.44(h)(1)(B) At any residence or establishment where an actual or potential contamination hazard exists and an adequate internal cross-connection control program is in effect, backflow protection at the water service entrance or meter is not required.

§290.44(h)(1)(B)(i) An adequate internal cross-connection control program shall include an annual inspection and testing by a certified backflow prevention assembly tester on all backflow prevention assemblies used for health hazard protection.

§290.44(h)(1)(B)(ii) Copies of all such inspection and test reports must be obtained and kept on file by the water purveyor.

§290.44(h)(1)(B)(iii) It will be the responsibility of the water purveyor to ensure that these requirements are met.

*Mark:
FYI
Jim
Price*

→ Rules and Regulations for PWSs: 30 TAC 290 Subchapter D
RG-195 • Revised February 2004



January 20, 2005

Michael E. Murphy, P.E.
Director of Public Works
P.O. Box 9010
Addison, Texas 75001-9010

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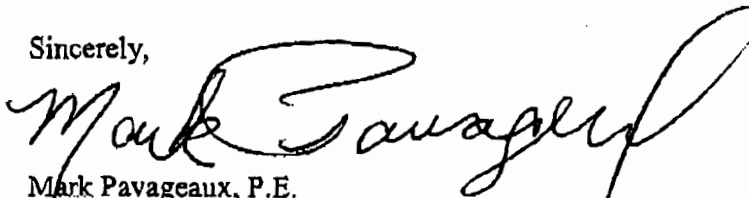
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Please contact me at your convenience.

Sincerely,



Mark Pavageaux, P.E.
Director of Public Works

Cc: Greg Vick, Assistant City Manager
Richard Cannon, Engineering Specialist
Roy Smallwood, Superintendent of Utilities

1-18-05

Doesn't Look good

Connection poor

Pump # 4 can hold

Uncomfortable

1981

Fire or Main Break

F.B. needs 7 mgd.

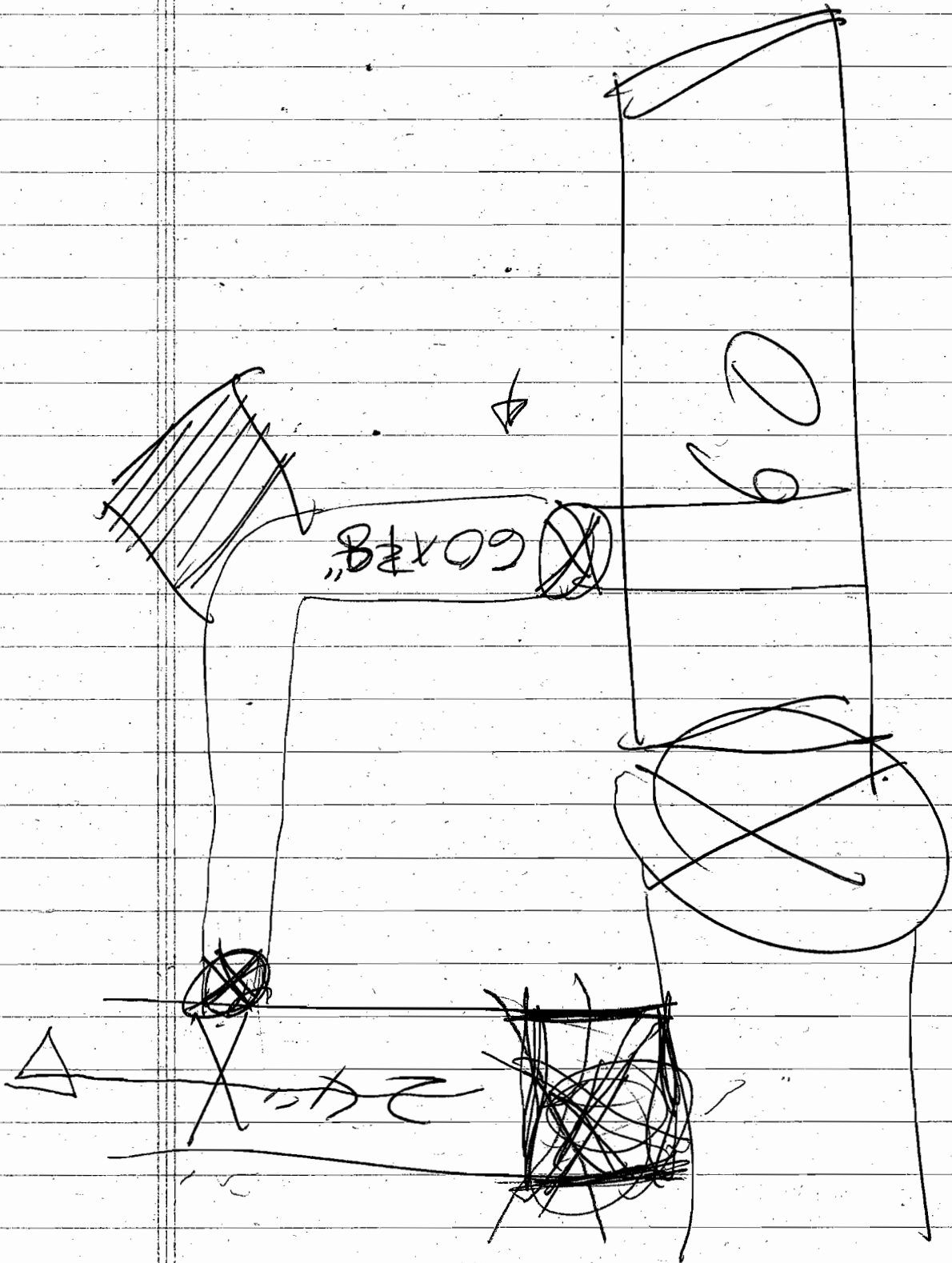
Install 60" on our side of

F.B.

Erving Holey ~~_____~~

Call Dallas Re

F.B. will engineer about
more connection points



GOYB

09

Former Branch

HP LaserJet 3200se



HP LASERJET 3200

JAN-17-2005 4:12PM

Fax Call Report

Job	Date	Time	Type	Identification	Duration	Pages	Result
347	1/17/2005	4:08:20PM	Send	92146722020	4:27	4	OK



PUBLIC WORKS DEPARTMENT
Post Office Box 9010 Addison, Texas 75001-9010

(972) 450-2871 FAX (972) 450-2837
16881 Westgrove

January 17, 2005

Ms. Wanda Morgan, Assistant Administrator
Utilities and Districts
Texas Commission on Environmental Quality
Austin, Texas

Via Fax 1-512-239-6972

Re: Water System Interconnection Between Addison and Farmers Branch

Dear Ms. Morgan:

This is to describe the water system interconnection project that we have been working on with Farmers Branch. The primary purpose of this project is to allow shut down of the 60" Dallas Water Utilities water main that feeds the Farmers Branch Marsh Lane Pumping Station and to therefore furnish a temporary supplementary supply of water from Addison to Farmers Branch. The 60" main needs to be shut down so that a portion of the main can be lowered to accommodate the construction of Arapaho Road, Phase III in Addison. The secondary purpose of this project is to make an interconnection between the two systems such that either City can supply water to the other in case of emergency.

Addison has taken the lead and will bear the cost of the interconnection. A tapping sleeve and valve has been installed on the 8" main on Beltwood Parkway in Farmers Branch, and a similar connection has been made on the nearby 8" main in Addison. An 8" turbine meter has been installed in a vault to measure flow delivered to either municipality. A copy of the piping arrangement and location map is attached.

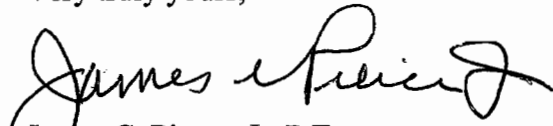
Construction of the interconnection was completed on Friday January 14, 2005. The piping was disinfected and flushed. All work was done under the supervision of TCEQ Licensed Operators from both municipalities, as well as Licensed Professional Engineers from Addison. Both municipalities shall share sanitary control of the interconnection, with Addison taking the lead. Testing has shown that Addison can furnish 1,350 gpm to Farmers Branch with a differential pressure of 4 psi.

*To John Hill
Cowles & Thompson
214-672-2020*

Ms. Wanda Morgan
January 17, 2005
Page 2

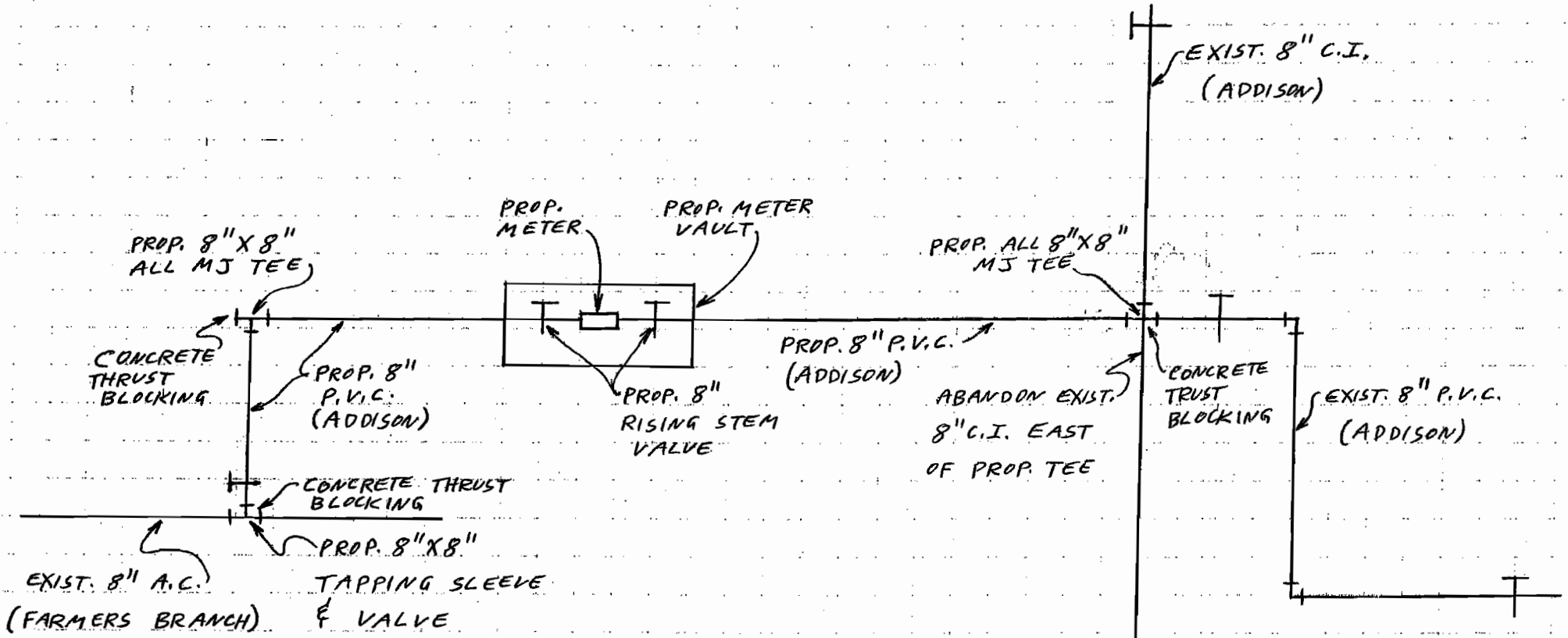
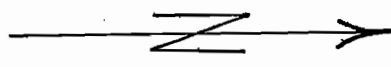
Please call me at 972-450-2871 if you have any questions or require any additional information.

Very truly yours,

A handwritten signature in black ink, appearing to read "James C. Pierce, Jr.", written in a cursive style.

James C. Pierce, Jr. P.E.
Assistant Director of Public Works

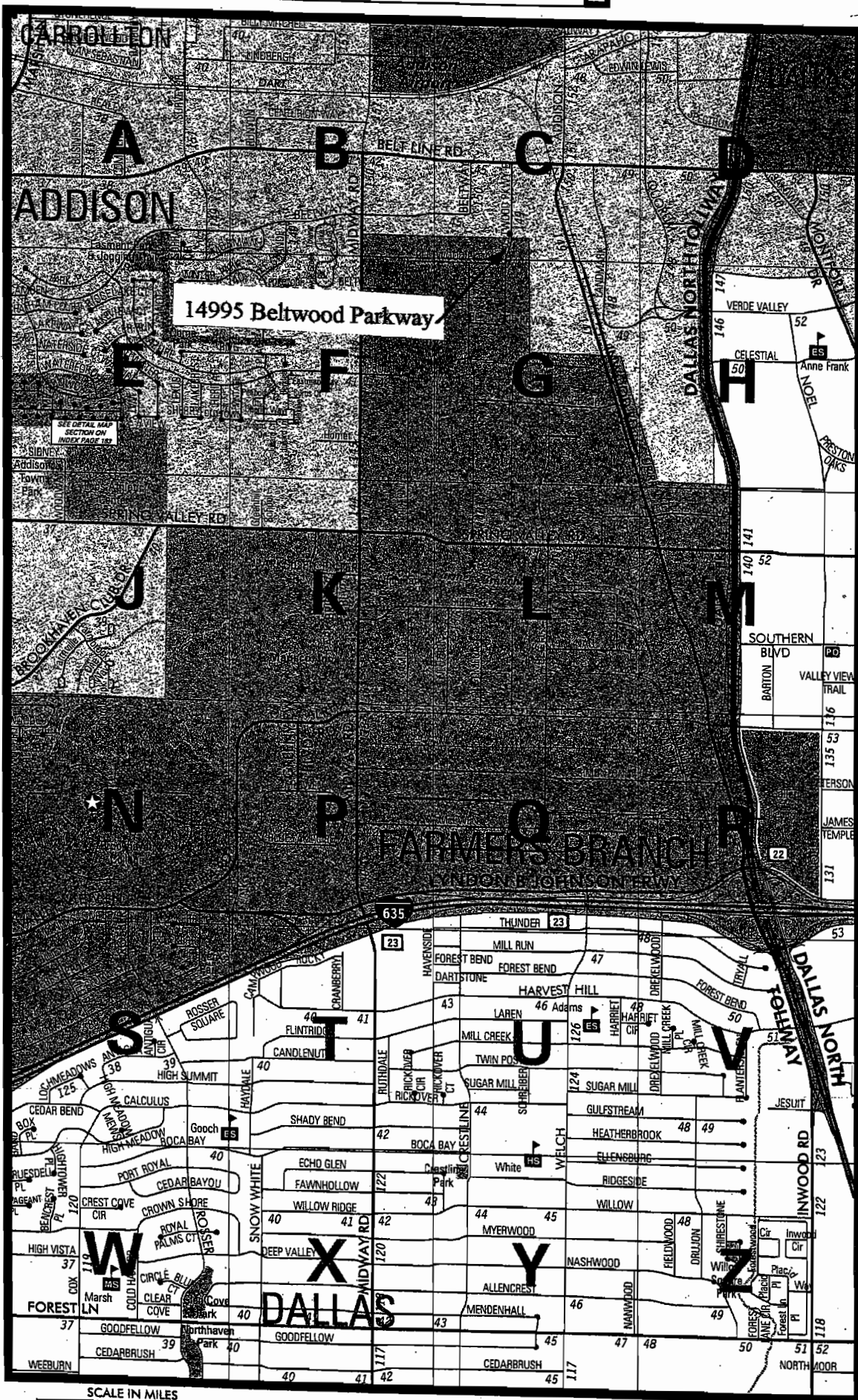
Cc: Chris Terry, Assistant City Manager
Jerry Davis, Utilities Superintendent
John Hill, Cowles & Thompson
Mark Pavageaux, P.E., Director of Public Works, Farmers Branch



14995 Beltwood Parkway
Proposed 8" Water Interconnection
Addison/Farmers Branch

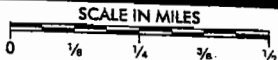
NOTE: CONTACT ALL
AFFECTED PROPER
OWNERS PRIOR TO
START OF
CONSTRUCTION

January 2005



CONTINUED ON MAP 13

CONTINUED ON MAP 15



SCALE IN FEET

HP LaserJet 3200se



HP LASERJET 3200

JAN-17-2005 3:45PM

Fax Call Report

Job	Date	Time	Type	Identification	Duration	Pages	Result
345	1/17/2005	3:42:11PM	Send	915122396972	3:04	4	OK



ADDISON PUBLIC WORKS DEPARTMENT (972) 450-2871 FAX (972) 450-2837
Post Office Box 9010 Addison, Texas 75001-9010 16501 Westgrove

January 17, 2005

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Utilities and Districts
Texas Commission on Environmental Quality
Austin, Texas

Via Fax 1-512-239-6972

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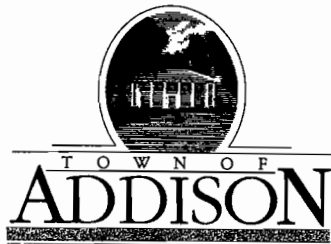
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Utilities & Districts

Wanda Morgan

FAX

1-512-239-6972



PUBLIC WORKS DEPARTMENT

Post Office Box 9010 Addison, Texas 75001-9010

(972) 450-2871 FAX (972) 450-2837

16801 Westgrove

January 17, 2005

Ms. Wanda Morgan, Assistant Administrator
Utilities and Districts
Texas Commission on Environmental Quality
Austin, Texas

Via Fax 1-512-239-6972

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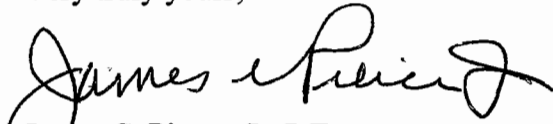
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Ms. Wanda Morgan
January 17, 2005
Page 2

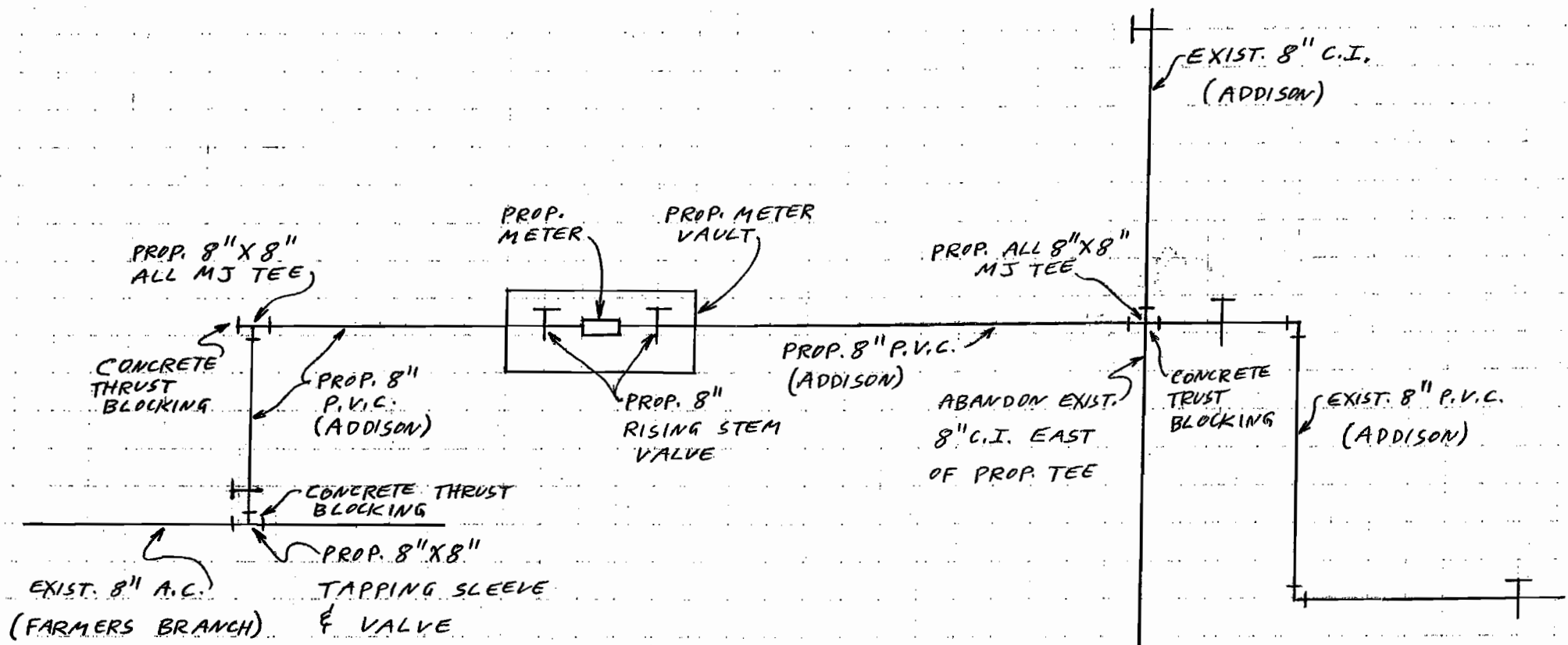
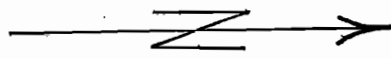
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James C. Pierce, Jr. P.E.
Assistant Director of Public Works

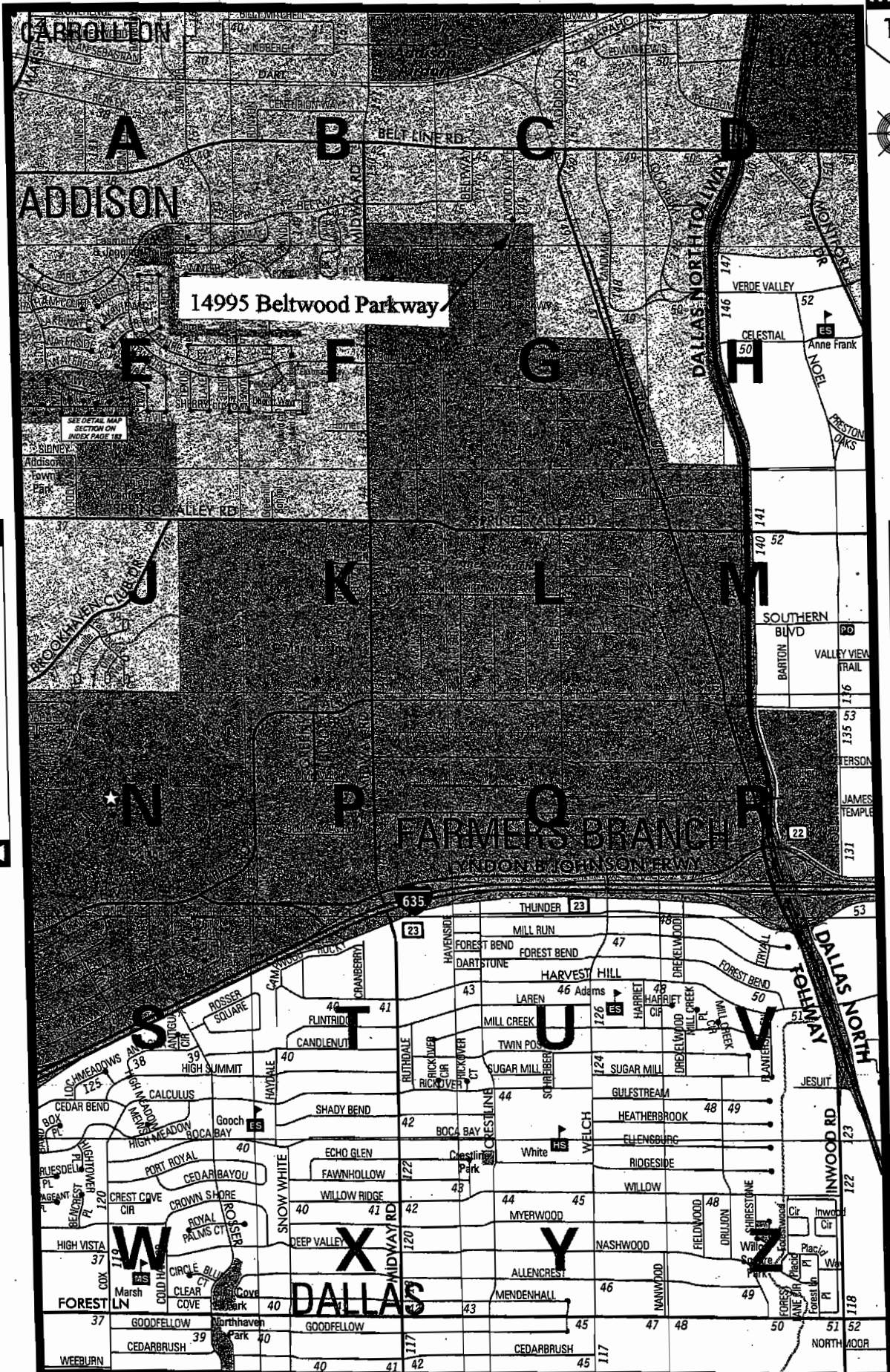
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14995 Beltwood Parkway
Proposed 8" Water Interconnection
Addison/Farmers Branch

NOTE: CONTACT ALL
AFFECTED PROPER
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START OF
CONSTRUCTION

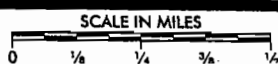
January 2005

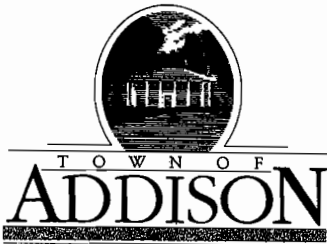


14995 Beltwood Parkway

CONTINUED ON MAP 13

CONTINUED ON MAP 15





PUBLIC WORKS DEPARTMENT

® Post Office Box 9010 Addison, Texas 75001-9010

(972) 450-2871 FAX (972)450-2837

16801 Westgrove

January 17, 2005

Ms. Wanda Morgan, Assistant Administrator
Utilities and Districts
Texas Commission on Environmental Quality
Austin, Texas

Via Fax 1-512-239-6972

Re: Water System Interconnection Between Addison and Farmers Branch

Dear Ms. Morgan:

This is to describe the water system interconnection project that we have been working on with Farmers Branch. The primary purpose of this project is to allow shut down of the 60" Dallas Water Utilities water main that feeds the Farmers Branch Marsh Lane Pumping Station and to therefore furnish a temporary supplementary supply of water from Addison to Farmers Branch. The 60" main needs to be shut down so that a portion of the main can be lowered to accommodate the construction of Arapaho Road, Phase III in Addison. The secondary purpose of this project is to make an interconnection between the two systems such that either City can supply water to the other in case of emergency.

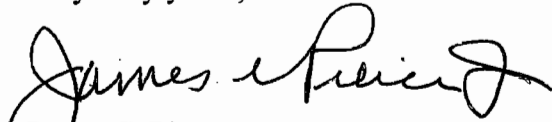
Addison has taken the lead and will bear the cost of the interconnection. A tapping sleeve and valve has been installed on the 8" main on Beltwood Parkway in Farmers Branch, and a similar connection has been made on the nearby 8" main in Addison. An 8" turbine meter has been installed in a vault to measure flow delivered to either municipality. A copy of the piping arrangement and location map is attached.

Construction of the interconnection was completed on Friday January 14, 2005. The piping was disinfected and flushed. All work was done under the supervision of TCEQ Licensed Operators from both municipalities, as well as Licensed Professional Engineers from Addison. Both municipalities shall share sanitary control of the interconnection, with Addison taking the lead. Testing has shown that Addison can furnish 1,350 gpm to Farmers Branch with a differential pressure of 4 psi.

Ms. Wanda Morgan
January 17, 2005
Page 2

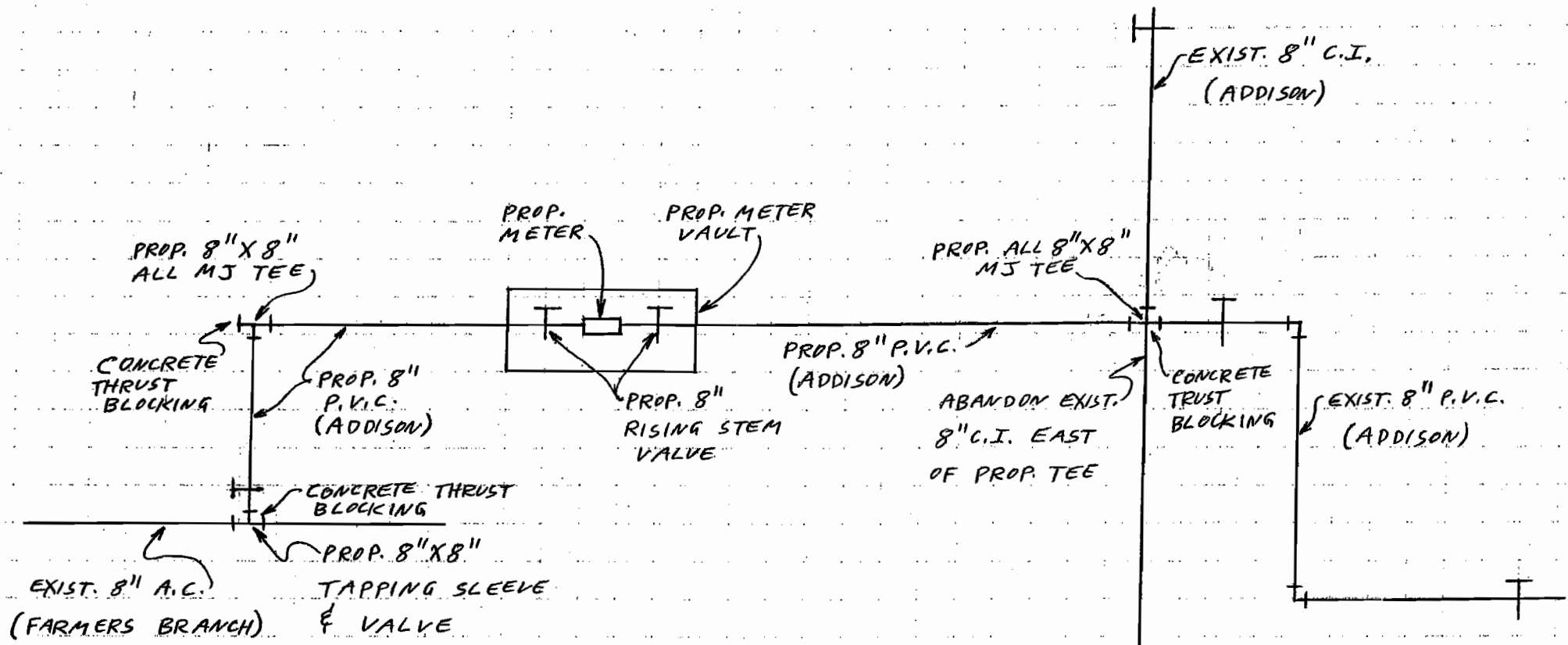
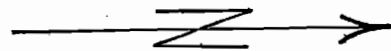
Please call me at 972-450-2871 if you have any questions or require any additional information.

Very truly yours,

A handwritten signature in black ink, appearing to read "James C. Pierce, Jr.", written in a cursive style.

James C. Pierce, Jr. P.E.
Assistant Director of Public Works

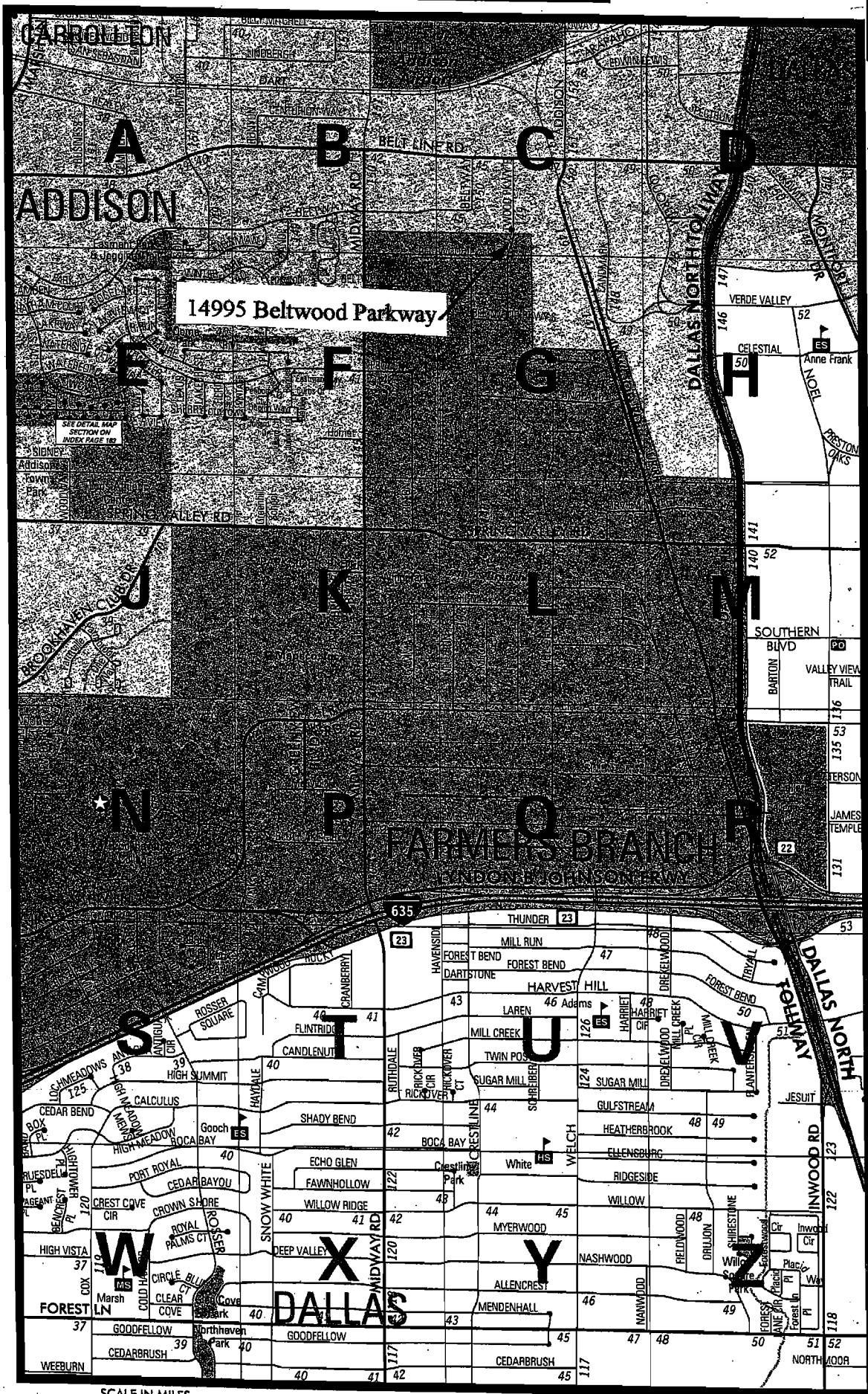
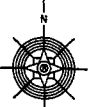
Cc: Chris Terry, Assistant City Manager
Jerry Davis, Utilities Superintendent
John Hill, Cowles & Thompson
Mark Pavageaux, P.E., Director of Public Works, Farmers Branch



14995 Beltwood Parkway
Proposed 8" Water Interconnection
Addison/Farmers Branch

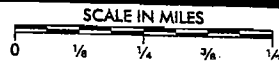
NOTE: CONTACT ALL
AFFECTED PROPER
OWNERS PRIOR TO
START OF
CONSTRUCTION

January 2005



CONTINUED ON MAP 13

CONTINUED ON MAP 15



HP LaserJet 3200se



HP LASERJET 3200

JAN-17-2005 4:01PM

Fax Call Report

Job	Date	Time	Type	Identification	Duration	Pages	Result
346	1/17/2005	3:57:38PM	Send	99722416305	3:20	5	OK

TOWN OF
ADDISON

PUBLIC WORKS

To: Mark Pavageaux

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

Company: Farmers Branch

FAX #: 972-241-6305

Date: 1-17-05

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

of pages (including cover): 5

Re: Addison/Farmers Branch Water System Interconnection

Original in mail Per your request FYI Call me

Comments: Mark: a copy of our correspondence to TCEQ attached

We are planning to shut down the 60" line on Wednesday, 1-19-05 with your concurrence.

Please call if you have any questions

Jim

TOWN OF
ADDISON

PUBLIC WORKS

To: Mark Pavageaux

From: Jim Pierce, P.E.
Asst. Public Wks. Dir.
Phone: 972/450-2879
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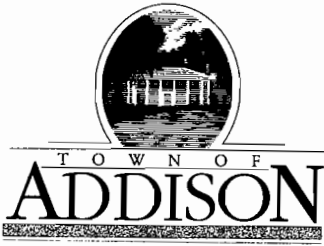
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PUBLIC WORKS DEPARTMENT

Post Office Box 9010 Addison, Texas 75001-9010

(972) 450-2871 FAX (972)450-2837

16801 Westgrove

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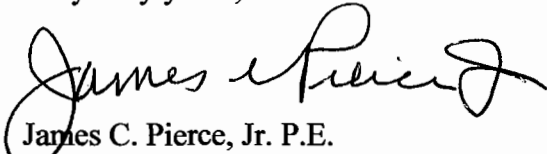
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Ms. Wanda Morgan
January 17, 2005
Page 2

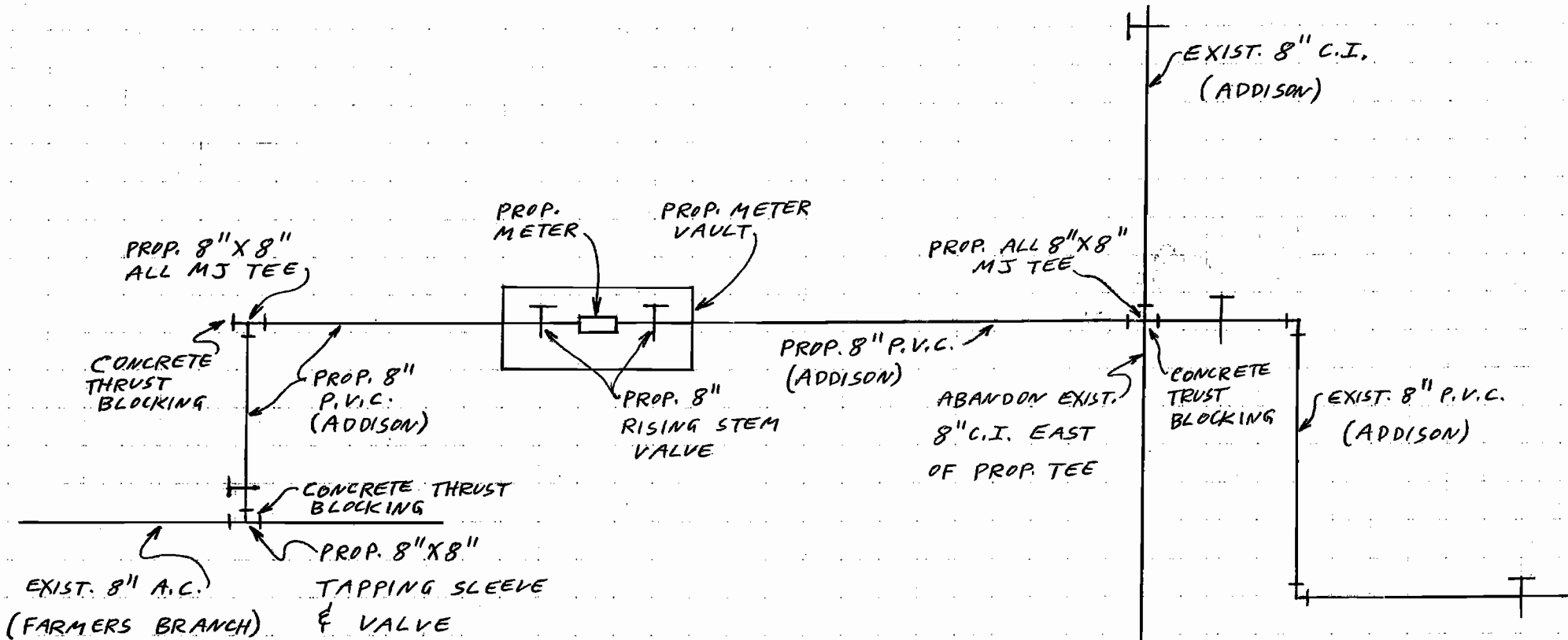
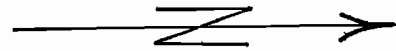
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James C. Pierce, Jr. P.E.
Assistant Director of Public Works

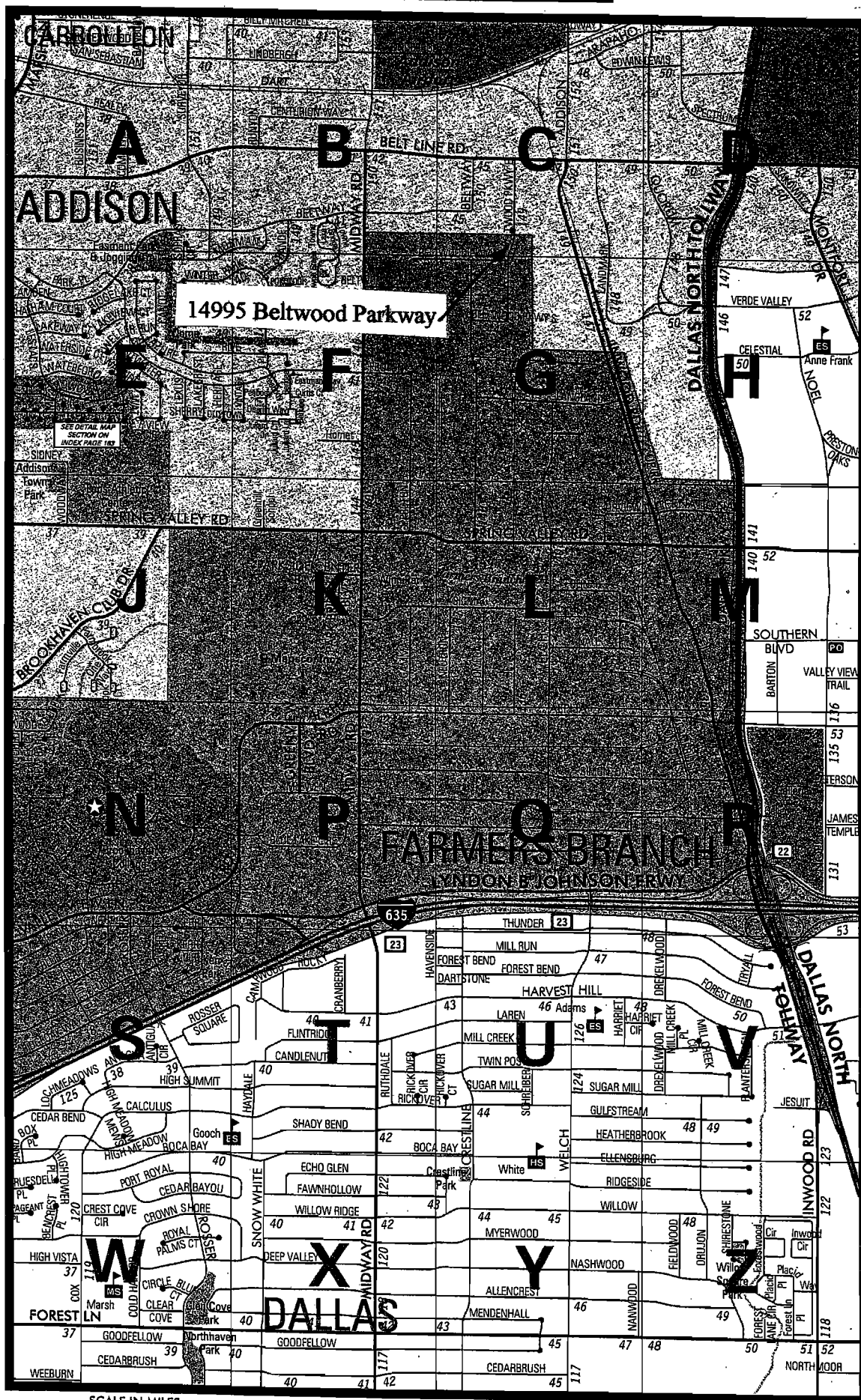
Cc: Chris Terry, Assistant City Manager
Jerry Davis, Utilities Superintendent
John Hill, Cowles & Thompson
Mark Pavageaux, P.E., Director of Public Works, Farmers Branch



14995 Beltwood Parkway
Proposed 8" Water Interconnection
Addison/Farmers Branch

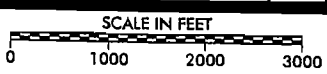
NOTE: CONTACT ALL
AFFECTED PROPER
OWNERS PRIOR TO
START OF
CONSTRUCTION

January 2005



CONTINUED ON MAP 13

CONTINUED ON MAP 15



Water Distribution
§290.44

§290.44(f)(2) Special precautions must be taken when waterlines are laid under any flowing or intermittent stream or semipermanent body of water such as marsh, bay, or estuary. In these cases, the water main shall be installed in a separate watertight pipe encasement and valves must be provided on each side of the crossing with facilities to allow the underwater portion of the system to be isolated and tested to determine that there are no leaks in the underwater line. Alternately, and with the permission of the executive director, the watertight pipe encasement may be omitted.

§290.44(f)(3) New mains shall be thoroughly disinfected in accordance with AWWA Standard C651 and then flushed and sampled before being placed in service. Samples shall be collected for microbiological analysis to check the effectiveness of the disinfection procedure. Sampling shall be repeated if contamination persists. A minimum of one sample for each 1,000 feet of completed waterline will be required or at the next available sampling point beyond 1,000 feet as designated by the design engineer.

§290.44(g) Interconnections.

§290.44(g)(1) Each proposal for a direct connection between public drinking water systems under separate administrative authority will be considered on an individual basis.

§290.44(g)(1)(A) Documents covering the responsibility for sanitary control shall accompany the submitted planning material.

§290.44(g)(1)(B) Each water supply shall be of a safe, potable quality.

§290.44(g)(2) Where an interconnection between systems is proposed to provide a second source of supply for one or both systems, the system being utilized as a second source of supply must be capable of supplying a minimum of 0.35 gallons per minute per connection for the total number of connections in the combined distribution systems.

§290.44(h) Backflow, siphonage.

§290.44(h)(1) No water connection from any public drinking water supply system shall be allowed to any residence or establishment where an actual or potential contamination hazard exists unless the public water facilities are protected from contamination.

§290.44(h)(1)(A) At any residence or establishment where an actual or potential contamination hazard exists, additional protection shall be required at the meter in the form of an air gap or backflow prevention assembly. The type of backflow prevention assembly required shall be determined by the specific potential hazard identified in §290.47(i) of this title (relating to Appendices).

§290.44(h)(1)(B) At any residence or establishment where an actual or potential contamination hazard exists and an adequate internal cross-connection control program is in effect, backflow protection at the water service entrance or meter is not required.

§290.44(h)(1)(B)(i) An adequate internal cross-connection control program shall include an annual inspection and testing by a certified backflow prevention assembly tester on all backflow prevention assemblies used for health hazard protection.

§290.44(h)(1)(B)(ii) Copies of all such inspection and test reports must be obtained and kept on file by the water purveyor.

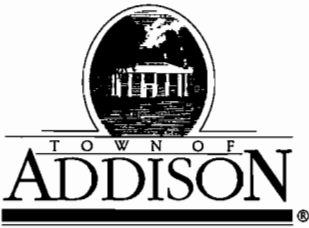
§290.44(h)(1)(B)(iii) It will be the responsibility of the water purveyor to ensure that these requirements are met.

1-14-05

Addison PSI 59

F.B. 55

1350 GPM



Public Works / Engineering

16801 Westgrove • P.O. Box 9010

Addison, Texas 75001

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

LETTER OF TRANSMITTAL

DATE	1-12-05	JOB NO.
ATTENTION		
RE:	Arapaho Rd Phase III	
Addison / Farmers Branch Water System Interconnection		

TO Carmen Moran

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			Contract with Davis Excavation to make an Emergency Interconnection between Addison & Farmers Branch Water Systems
			Location: Beltwood Parkway

THESE ARE TRANSMITTED as checked below:

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

REMARKS This connection is needed to supply water to Farmers Branch for approx. 10 days while a 60" water main is shut down so it can be lowered for the Arapaho Road Phase III Project. Shut down of the 60" main shuts water off to Farmers Branch Marsh Lane Pumping station therefore the need for this connection. A very short time frame is available for the shut-down

COPY TO _____

SIGNED: Jefleni

HP LaserJet 3200se



HP LASERJET 3200

JAN-12-2005 2:29PM

Fax Call Report

Job	Date	Time	Type	Identification	Duration	Pages	Result
310	1/12/2005	2:28:30PM	Send	92147338043	0:56	2	OK

TOWN OF

ADDISON

PUBLIC WORKS

To: Mark Brandon Lura

From: Jim Pierce, P.E.

Company: Davis Excavation

Asst. Public Wks. Dir.

Phone: 972/450-2879

FAX: 972/450-2837

FAX #: 214-733-8043

jpierce@ci.addison.tx.us

Date: 1-12-05

16801 Westgrove

P.O. Box 9010

Addison, TX 75001-9010

of pages (including cover): 2

Re: Addison/Farmas Branch Water System Interconnection

Original in mail Per your request FYI Call me

Comments: Letter of authorization attached

Thank you for your prompt attention
to this matter

Jim Pierce

Davis Excavation, Inc.

• P.O. Box 1169 • Van Alstyne, Texas 75495 • (214) 733-8042 • (214) 733-8043 Fax

DATE: 12-Jan-05

TO: Town Of Addison
P.O. Box 9010
Addison, TX 75001

Attn: Mr. Jerry Davis

Project: 15001 E. Beltwood Parkway - Water Vault for Addison / Framers Branch Connection

Subject: Letter of Authorization

Dear Mr. Davis:

Thank you for notifying us of our opportunity to perform the installation of vault and connections of Town Of Addison and City Of Farmers Branch water systems on this Project for the price of \$12,823.06. Davis plans for our work to take place from 13-Jan-05 to 13-Jan-05.

In the absence of a formal contract, we must have written authorization to work. Therefore, please sign this document authorizing us to begin work as planned. I realize that this Letter of Authorization may be changed or replaced by a formal contract or Purchase Order at a later date.

Sincerely,

Davis Excavation



Mark Brandenburg
E.V.P.

I hereby authorize Davis Excavation to work on this Project.

BY: Jeffrey Asst. Public Works Director

DATE: 1-12-05

January 12, 2005

Town Of Addison
ATTN: Jerry Davis
P.O. Box 9010
5350 Beltline Road
Addison, Texas 75001
Office Phone: 972-450-7051
Office Fax: 972-450-7065

Proposal For New Waterline Vault Connection For The Town of Addison & Farmers Branch in Addison:

Item #	Description	Qty	Unit	Unit Price	Total
Water					
1	Mobilization	1	EA	\$1,500.00	\$1,500.00
2	8" Water Meter Vault Assembly	1	EA	\$5,200.00	\$5,200.00
3	Tapping Sleeve	1	EA	\$765.81	\$765.81
4	Pipe & Material	1	LS	\$2,107.25	\$2,107.25
5	Trucking / Haul Off	1	LS	\$450.00	\$450.00
6	Labor/Equipment (8 hrs @ \$350.00/hr minimum)	8	HRS	\$350.00	\$2,800.00

Total: \$12,823.06

NOTES:

- 1.) Davis Excavation has estimated 8 hours labor / equipment crew time to complete this scope of work. If site conditions or other project issues cause Davis to exceed this minimum, Davis will bill the overage at a rate of \$350.00 / hr.
- 2.) Davis will send an invoice upon completion of this work.

P.O. Box 1169
Van Alstyne, TX 75495
(214)733-8042 ofc.
(214)733-8043 fax
info@davisexcavation.com



Fax

Jim Pierce

To:	Mr. Jerry Davis	From:	Mark Brandenburg
Fax:	972-716-0834 972 450 2837	Pages:	3 inc. cover
Phone:		Date:	12-Jan-05
Re:	Quote -- Water Vault / 15001 E. Beltwood CC:		

Urgent For Review Please Comment Please Reply Please Recycle

• Comments:

Mr. Davis,

Thank you for giving us the opportunity to work for the Town Of Addison once again. Attached for your review is our quote for the vault installation and water line connections at 15001 E. Beltwood. If this is acceptable please sign and fax back our Letter of Authorization and mail us the original. Once the Faxed copy is received we plan to schedule and perform the work tomorrow, 13-Jan-04. Please give us a call if you have any comments or questions concerning our quote.

Thanks,

Mark

TOWN OF
ADDISON

PUBLIC WORKS

To: Mark Brandenburg

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

Company: Davis Excavation

FAX #: 214-733-8043

Date: 1-12-05

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

of pages (including cover): 2

Re: Addison/Farmers Branch Water System Interconnection

Original in mail Per your request FYI Call me

Comments: Letter of authorization attached.

Thank you for your prompt attention
to this matter

Jim Pierce



Mr. David Robinson
Operations Manager
Pumping Division
2900 White Rock Road
Dallas, TX 75214

Arapaho Road – Phase III Project

January 11, 2005

Dear David:

Three weeks ago, Archer Western Contractors, Ltd. scheduled a meeting with you on the procedures for the lowering of the 60”main and to schedule a test shutdown for the section of the DWU 60”main and the associated valves. During this preparation for the test shutdown of the 60”main that next day, DWU notified Archer Western Contractors, Ltd. that a issue had arose with the shutdown of the 60”main. DWU found that the water supply connection for the City of Farmers Branch was on the closed side of the valve, which would turn off the water to the City of Farmers Branch Marsh Lane Pumping Station.

Since that time, The City of Farmers Branch has been performing tests on their system to determine if they would be able to maintain pressure and volume when the 60” valve is closed on their system. The City of Farmers Branch has determined that they will not be able to maintain the required pressure beyond 48–hours.

Upon the notification of this issue, the Town of Addison and the City of Farmers Branch began working on an “interconnect” that would supply Farmers Branch during the work on the 60”main line. This “interconnect” must be installed and operational, prior to the shut down of the 60” main line.

The Town of Addison has requested Archer Western Contractors, Ltd. to reschedule the work on the 60” DWU main until the referenced “interconnect” can be completed. At the present time the Town of Addison is attempting to expedite this work and anticipates this work to be completed on or about January 19, 2005. We wanted to keep you informed of this matter.

Thank you,

Guy Van Baulen, EIT
HNTB Corporation

Cc: Steve Chutchian, Town of Addison
Erling Holey, Dallas Water Utilities
Cassia Sanchez, Dallas Water Utilities
Katura Curry, Grantham & Associates
Jerry D. Holder, HNTB Corporation
Michael Ebeling, HNTB Corporation

DATE 1-11-05

NAME Mark P. HOME# _____

ADDRESS _____ WORK# _____

REQUEST FOR SERVICE 972-919-2613 Supt of Util
1. Roy Smallwood

2. Mgr/Attorney OK - Letter describing project
what we are going to do

3. Wants to "test" the connection

ACTION TAKEN _____

ROBIN _____

AL _____

MITCH _____

JAMES _____

JEFF _____

JOHN _____

HP LaserJet 3200se



HP LASERJET 3200

JAN-11-2005 11:21AM

Fax Call Report

Job	Date	Time	Type	Identification	Duration	Pages	Result
291	1/11/2005	11:20:19AM	Send	99722416305	0:51	2	OK



January 11, 2005

Mark G. Pavageaux, P.E.
Director of Public Works
P.O. Box 819010
Farmers Branch, TX 75381-9010

Re: Water System Interconnection Between Addison and Farmers Branch

Dear Mr. Pavageaux:

This is to describe the interconnection project that we have been working on with you recently. The primary purpose of this project is to allow shut down of the 60" DWU water main that feeds the Farmers Branch Marsh Lane Pumping Station and to therefore furnish a supplementary supply of water from Addison to Farmers Branch. The 60" main needs to be shut down so that a portion of the main can be lowered to accommodate the construction of Arapaho Road, Phase III. The secondary purpose of this project is to make an interconnection between the two systems such that either City can supply water to the other in case of emergency.

Addison intends to take the lead and bear the cost of the interconnection. A tapping sleeve and valve will be installed on the 8" main on Beltwood Parkway in Farmers Branch and a similar connection will be made on the nearby 8" main owned by Addison. We will attempt to install an 8" turbine meter if it is received in time. If it is not received in time, the connection will be made without the meter, and the meter will be installed after the 60" water main lowering project is complete. We have placed a call to TCEQ to advise them of this project.

The "capacity" of the connection will be a function of the difference in pressure between the two systems. Recently, pressure in Addison was 80 psi and pressure in Farmers Branch was 49 psi. This indicates a significant amount of water can be supplied from Addison to Farmers Branch. The amount of water that will be supplied is hard to calculate without a detailed hydraulic system analysis. We anticipate about 2 MGD can be supplied, and possibly more.

Construction of the interconnection should be complete Thursday or Friday of this week and we would ask that you begin your evaluation of the connection upon completion. We would like to have your approval to shut down the 60" main by Wednesday, January 19, 2005 at the latest.

HP LaserJet 3200se



HP LASERJET 3200

JAN-11-2005 11:26AM

Fax Call Report

Job	Date	Time	Type	Identification	Duration	Pages	Result
292	1/11/2005	11:25:19AM	Send	92146722020	1:11	2	OK

*to John Hill
214-672-2020*



PUBLIC WORKS DEPARTMENT
Post Office Box 9010 Addison, Texas 75001-9010

(972) 450-2871 FAX (972) 450-2837
14801 Westgrove

January 11, 2005

Mark G. Pavageaux, P.E.
Director of Public Works
P.O. Box 619010
Farmers Branch, TX 75381-9010

Re: Water System Interconnection Between Addison and Farmers Branch

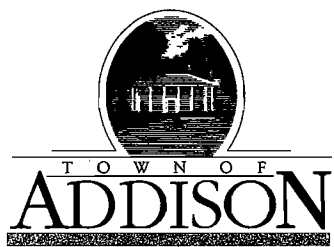
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(972) 450-2871 FAX (972) 450-2837
16801 Westgrove

January 11, 2005

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Addison intends to take the lead and bear the cost of the interconnection. A tapping sleeve and valve will be installed on the 8" main on Beltwood Parkway in Farmers Branch and a similar connection will be made on the nearby 8" main owned by Addison. We will attempt to install an 8" turbine meter if it is received in time. If it is not received in time, the connection will be made without the meter, and the meter will be installed after the 60" water main lowering project is complete. We have placed a call to TCEQ to advise them of this project.

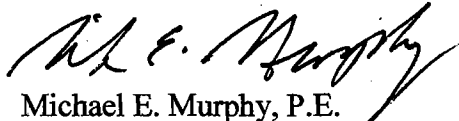
The "capacity" of the connection will be a function of the difference in pressure between the two systems. Recently, pressure in Addison was 80 psi and pressure in Farmers Branch was 49 psi. This indicates a significant amount of water can be supplied from Addison to Farmers Branch. The amount of water that will be supplied is hard to calculate without a detailed hydraulic system analysis. We anticipate about 2 MGD can be supplied, and possibly more.

Construction of the interconnection should be complete Thursday or Friday of this week and we would ask that you begin your evaluation of the connection upon completion. We would like to have your approval to shut down the 60" main by Wednesday, January 19, 2005 at the latest.

Mark Pavageaux, P.E.
January 11, 2005
Page 2

We very much appreciate your fine cooperation with us on this project. We will keep you informed of our progress completing the connection. Please call me at 972-450-2871 if you have any questions or require any additional information.

Very truly yours,

A handwritten signature in black ink, appearing to read "M.E. Murphy". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Michael E. Murphy, P.E.
Director of Public Works

Cc: Chris Terry, Assistant City Manager
Jim Pierce, P.E., Assistant Public Works Director
Jerry Davis, Utilities Superintendent
John Hill, Cowles & Thompson

Tellin
work

Add / FB Interconnect

1-7-05

Mark Pavageaux

① Can we shut down 60" on Mon or
do you require the interconnect to
be complete No

② Status of interconnect

Legal - 2 on council on 11th

Interlocal Drafted to FB today or mon.

FB Council action?

Civil Expose piping man, measure up

Design - plans & specs

Meter- ordered - in vault

Const. contractor

Testing

Contact TCBEQ

Marky Fay

972 919-2606

FB Sent an info memo

Jan 24th

FB Needs Wet Tap

Jim Pierce

From: Jerry Davis
Sent: Thursday, December 30, 2004 10:26 AM
To: Steve Chutchian
Cc: Jim Pierce
Subject: RE: Meet with John Hill on Farmers Branch Interlocal Agreement

Yes, they were testing it but concerned if a leak should happen during the time the 60-inch is down they would need help.

We met at 15001 Beltwood, Southeast corner of the property (Addison). We have a 8" water line that has 60 PSI tower level was at 26'. Farmers Branch has a 8" water main approx. 15' away with 49 PSI. This location is an excellent spot being only 5-6 ft. deep and in the grass.

Jerry Davis, Utilities Superintendent
972-661-1693

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

From: Steve Chutchian
Sent: Thursday, December 30, 2004 8:33 AM
To: Jerry Davis
Subject: RE: Meet with John Hill on Farmers Branch Interlocal Agreement

thanks. Hopefully, FB can handle their water system without needing the connections.

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

From: Jerry Davis
Sent: Thursday, December 30, 2004 8:19 AM
To: Steve Chutchian
Subject: RE: Meet with John Hill on Farmers Branch Interlocal Agreement

10/4, Phil and I will be meeting David Ferguson with FB today at 9:00 AM to check on some sites.

Jerry Davis, Utilities Superintendent
972-661-1693

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

From: Steve Chutchian
Sent: Thursday, December 30, 2004 6:38 AM
To: Jerry Davis
Subject: RE: Meet with John Hill on Farmers Branch Interlocal Agreement

Jerry: Can you give me the information regarding sites that we would do a cross-connection. We would need to include it in the interlocal agreement that John Hill will prepare on Monday. Thanks. Steve C.

-----Original Appointment-----

From: Jerry Davis
Sent: Wednesday, December 29, 2004 8:50 PM
To: Steve Chutchian
Subject: Declined: Meet with John Hill on Farmers Branch Interlocal Agreement
When: Monday, January 03, 2005 9:00 AM-10:00 AM (GMT-06:00) Central Time (US & Canada).
Where: Service Center

I am scheduled off vacation. Back on Tuesday

8" Interconnection with F.B.

Telcom with
Mark Parageaux

12-29-04

Roy Smelton Templeton 5. Valley View Lane
4 pumps

Elevated Tower fall to 50%

Turn on biggest pump first - started smaller pumps - Running 2 pumps and the elevated tank is rising

Will evaluate opening up hydrants and see if system reacts properly
simulate breaks

Risky situation - especially if there is a water break - Fire?

$$\begin{array}{r} 80 \text{ psi} \\ 50 \text{ psi} \\ \hline 30 \text{ psi} \end{array}$$

$$30 \text{ psi} \times 2.3 = 69 \text{ feet head diff}$$

$$v = \sqrt{2gh} = \sqrt{2 \times 32.2 \times 69} = \sqrt{4444}$$

$$= 66.6 \text{ fps}$$

$$Q = AV = 0.349 \text{ ft}^2 \times 66.6 = 23.3 \text{ ft}^3/\text{sec}$$

(8" pipe)

$$23.3 \times 448 = 10,422 \text{ gpm}$$

$$\text{or } 15 \text{ MGD}$$

F.B. 8" Interconnect
Telecon with
Mark Pevageaux

12-28-04

Mon AM - Marsh Lane Off

Mon PM - Couldn't sustain pressure
Putting Marsh Lane back on
F.B. was discouraged

Tues AM - Started a new test - ^{Different} valving
@ Wicker - DWU showed up ^{setup}
to work on their rate of flow controller.
They may be finished this PM & Then
FB will start a new test.

Mark P. asked about installing the valve on
the main line. I stated a good idea
if DWU would meet fast to approval.
Line would still need to be shut
down

Mark P. asked about an interconnect between
our 2 systems. I stated we would be
interested. Mark will investigate further
where we have lines close together

Jerry / Mark / 12/22/04
MO / P / Farmer Branch

8:30 Valved off Marsh Lane
operated off of other pump
Station -

Will operate through the
night

Not absolutely sure it will work
Will valve off again Monday

Orling Holey -

66" pipe

Having trouble filling one ground
Storage tank and pumping out of it
at the same time

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Texas Department of Transportation
Texas Commission on Environmental Quality
Federal Highway Administration

Supporting Agencies:
Environmental Protection Agency
Texas Department of Public Safety
Texas Department of Health

★
Maintain your vehicle.

Drive less.

Buy a "cleaner" vehicle.

Drive the speed limit.

Don't idle.