

# TOWN OF ADDISON

## ADDISON, TEXAS LINDBERGH DRIVE WATERLINE REPLACEMENT (FROM MIDWAY RD. TO APPROXIMATELY 1,350 L.F. EAST)

*John Chatham* 2/20/02

R. SCOTT WHEELER  
*Mayor*

GLYNDA TURNER  
*Mayor Pro-Tem*

DIANE MALLORY  
*Councilman*

BOB BARRETT  
*Councilman*

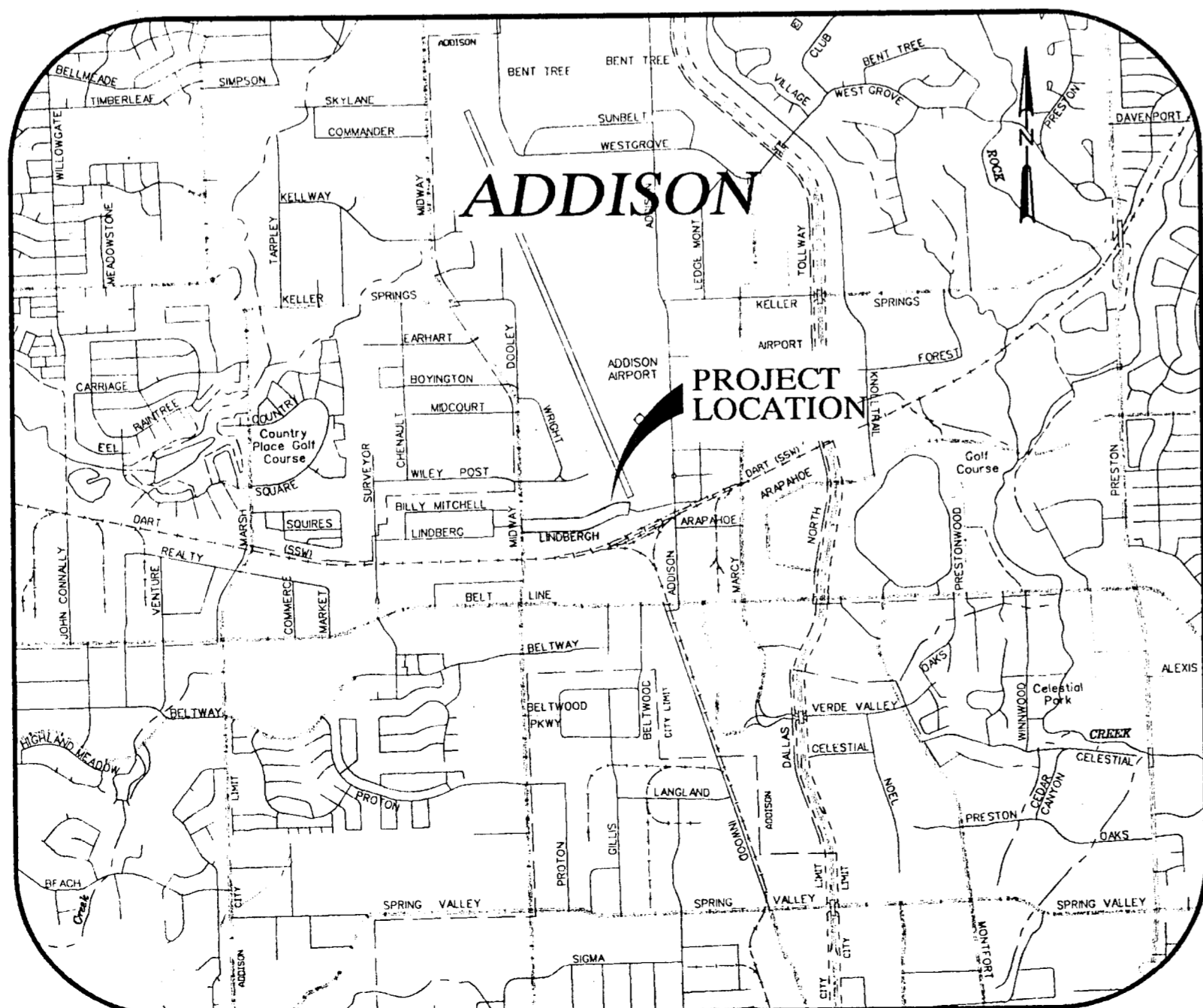
FRANK R. KLEIN  
*Councilman*

FREDRICK M. SILVER  
*Councilman*

RON WHITEHEAD  
*City Manager*

CATHY WAYS  
*Deputy Mayor Pro-Tem*

MIKE MURPHY  
*Director of Public Works*



PROJECT LOCATION

DECEMBER 2001



GUTIERREZ, SMOUSE, WILMUT & ASSOC., INC.  
11117 SHADY TRAIL  
DALLAS, TEXAS 75229  
(972) 620-1255  
DALLAS - FT. WORTH - HOUSTON - MIDLAND

SHEET 1	COVER SHEET
SHEET 2	GENERAL NOTES & MISCELLANEOUS DETAILS
SHEET 3	MISCELLANEOUS DETAILS
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LINDBERGH WA Line 2002 Contract Set (Mark-ups)

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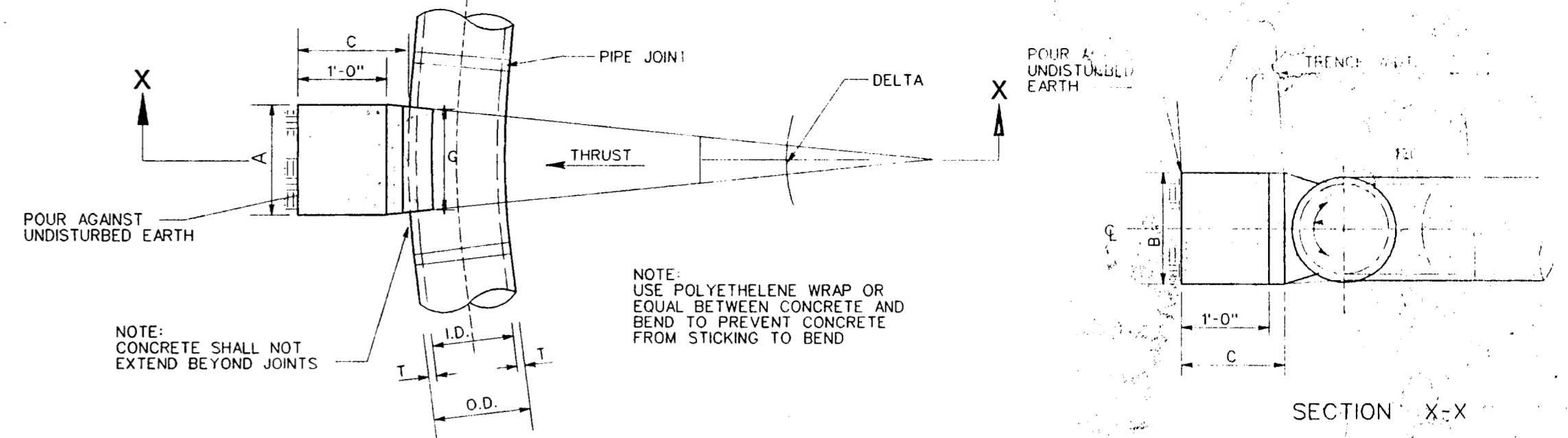
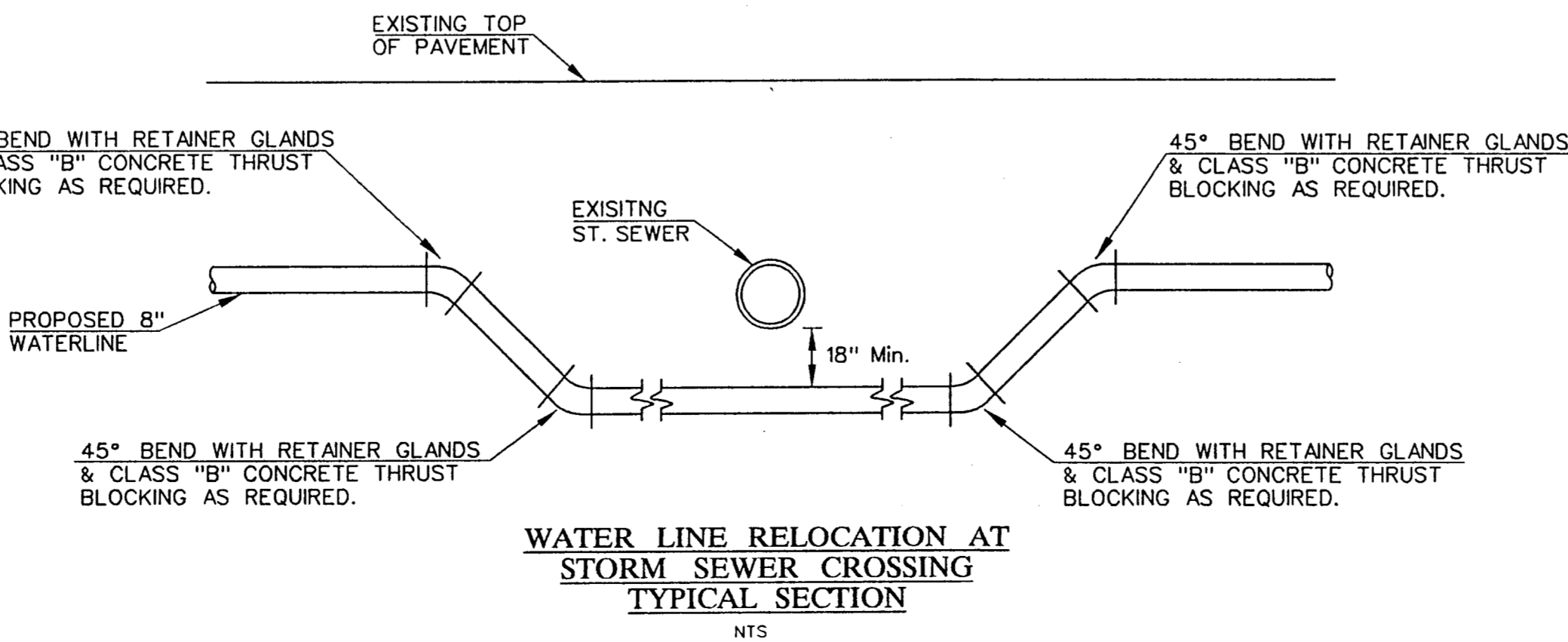
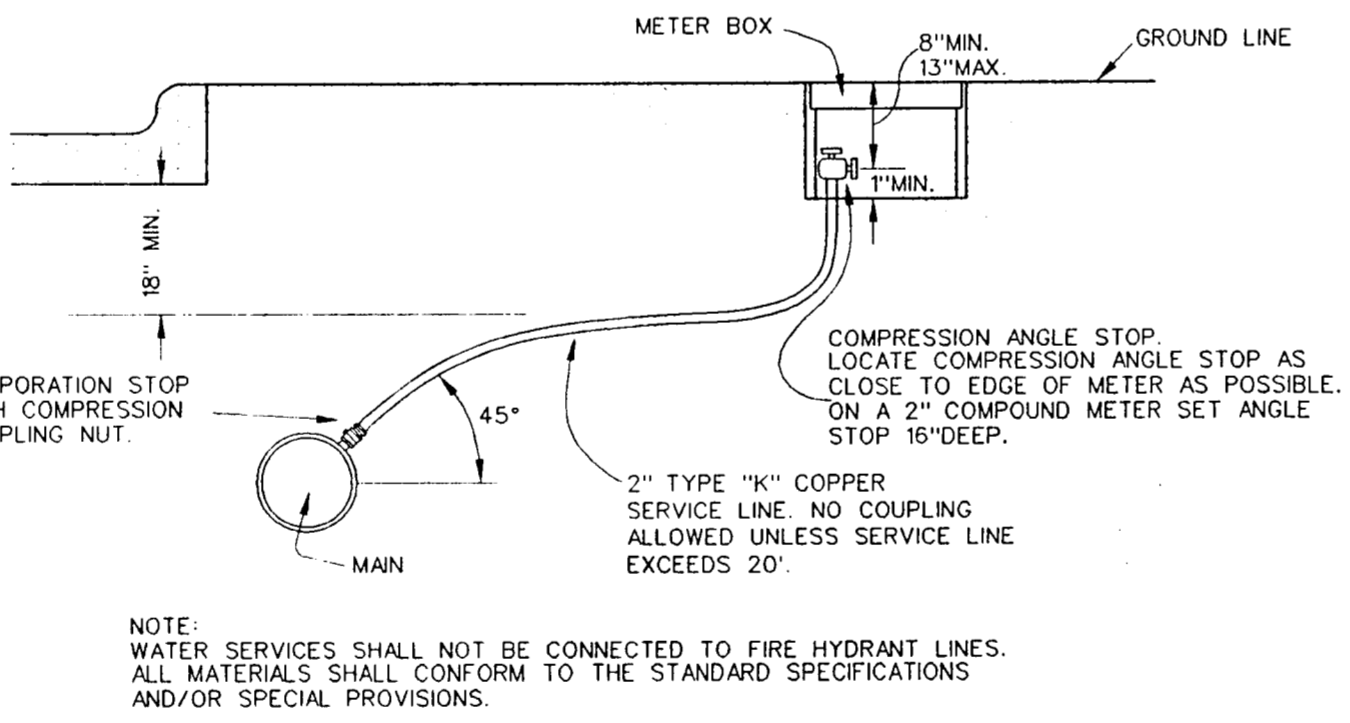
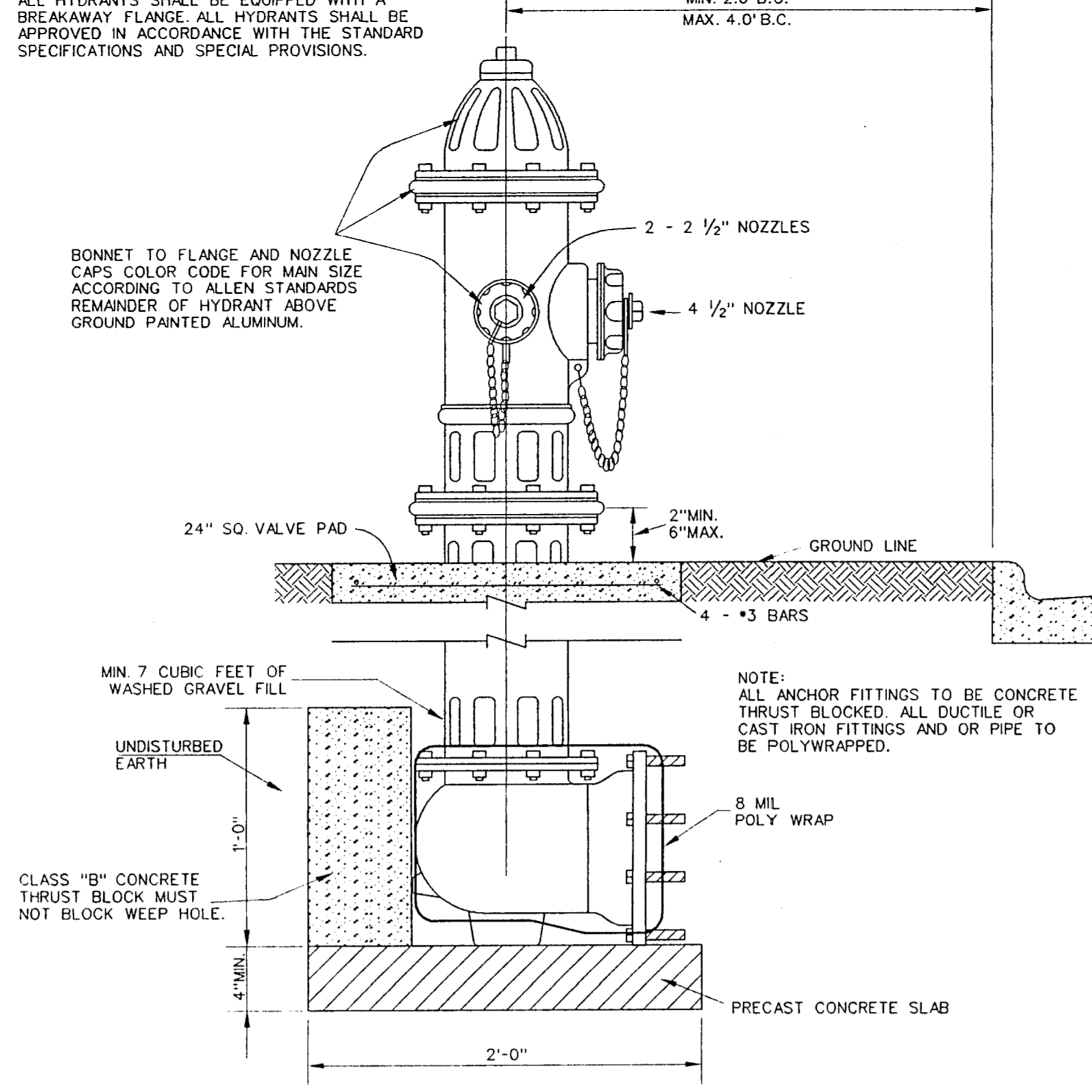
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**ADDISON GENERAL CONSTRUCTION NOTES**

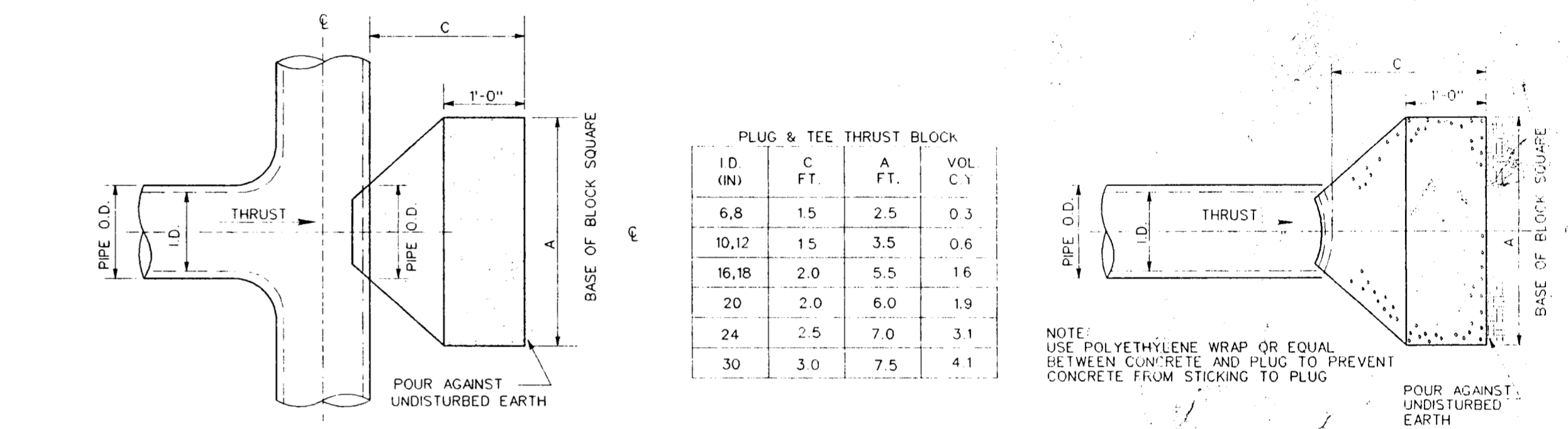
- UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE & FOR INFORMATIONAL PURPOSES ONLY AND DOES NOT PRECLUDE THE EXISTENCE OF OTHER UNDERGROUND FACILITIES WHICH ARE NOT SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE UTILITY OWNERS TO ARRANGE FOR EXACT LOCATIONS AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
 

UTILITY	TELEPHONE
TXU ELECTRIC & GAS	1-800-344-8377
GTE TELEPHONE	1-800-344-8377
TELE-CABLE	(214) 578-7573
DIG-TESS	(214) 578-7573
SOUTHWESTERN BELL TELEPHONE	1-800-395-0440
AT&T	1-800-245-4545
- THE CONTRACTOR SHALL MAINTAIN EXISTING SERVICES AND EXISTING WATER MAINS THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN FIRE EMERGENCY VEHICLE ACCESS TO FIRE HYDRANTS THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE DRIVEWAY OPENING FOR INGRESS/EGRESS OF VEHICULAR TRAFFIC TO/FROM PRIVATE PROPERTY THROUGHOUT CONSTRUCTION.
- EXISTING FIRE HYDRANTS AND VALVE STACKS AND CAPS REMOVED DURING CONSTRUCTION SHALL BE SALVAGED AND DELIVERED TO TOWN OF ADDISON PUBLIC WORKS YARD BY THE CONTRACTOR. (NO SEPARATE PAY ITEM)
- IRRIGATION AND SPRINKLER SYSTEM NOTES:
  - THE CONTRACTOR SHALL HIRE A LICENSED IRRIGATOR AS A SUBCONTRACTOR TO OVERSEE ALL ACTIVITIES THAT IMPACT EXISTING, OR PROPOSED IRRIGATION SYSTEMS.
  - PRIOR TO DEMOLITION OR CONSTRUCTION ACTIVITIES, EXISTING IRRIGATION SYSTEMS SHALL BE TURNED ON, THE LOCATION OF THE HEADS, VALVES, AND PIPE SHALL BE MARKED WHERE DEMOLITION OR CONSTRUCTION WILL IMPACT THE SYSTEM. DEFICIENCIES IN THE SYSTEM SHALL BE NOTED AND REPORTED TO THE SYSTEM OWNER. A PHOTOGRAPHIC OR VIDEO RECORD SHALL BE MADE IF APPROPRIATE.
  - PIPING SHALL BE CUT, CAPPED AND MARKED AT THE LIMITS OF CONSTRUCTION.
  - AT THE COMPLETION OF CONSTRUCTION, THE LICENSED IRRIGATOR SHALL RESTORE AND TEST THE IRRIGATION SYSTEM FOR PROPER FUNCTION. THE TEST SHALL BE CONDUCTED IN THE PRESENCE OF THE TOWN OF ADDISON'S PUBLIC WORKS INSPECTOR, AND THE SYSTEM OWNER.
  - ALL COST ASSOCIATED WITH SPRINKLER SYSTEM REPAIR IS SUBSIDIARY TO THE PROJECT.
- CONTRACTOR SHALL CONFORM WITH THE "NORTH CENTRAL TEXAS STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (NCTSSPWC), INCLUDING ALL AMENDMENTS, THE TOWN OF ADDISON SPECIAL PROVISIONS TO NCTSSPWC, AND ANY TOWN OF ADDISON STANDARD CONSTRUCTION DETAILS.
- ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF FOUR (4) FEET.
- ALL BENDS AND FIRE HYDRANTS SHALL INCLUDE RESTRAINED TYPE FITTINGS WITH RETAINER GLANDS IN ADDITION TO CONCRETE THRUST BLOCKING. ALL FIRE HYDRANTS SHALL BE INSTALLED PER STANDARD DETAIL.
- ABANDON ALL VALVES ON KILLED WATER MAINS PER VALVE ABANDONMENT DETAIL.
- WATER MAIN SHALL BE AWWA C-909, CL 150.
- ALL DIMENSIONS ARE FROM BACK OF CURB UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE TOWN OF ADDISON ENGINEERING DEPARTMENT FOR APPROVAL PRIOR TO BEGINNING WORK. TWO WAY TRAFFIC MUST BE MAINTAINED DURING CONSTRUCTION.
- ALL STREET AND DRIVEWAY PAVEMENT SHALL BE 8-INCH, 4000 PSICONCRETE WITH #3 BARS ON 18-INCH CENTERS BOTH WAYS.
- ALL PORTIONS OF EXISTING DRIVEWAY THAT ARE TO REMAIN SHALL BE PROTECTED BY THE CONTRACTOR. REMOVAL OF ANY CONCRETE THAT IS NOT SHOWN TO BE REMOVED SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE TOWN OF ADDISON.
- ALL WATER SERVICE LINES THAT EXTEND TO THE NORTH SIDE OF THE R.O.W. SHALL BE BORED UNDERNEATH THE EXISTING PAVEMENT.
- THE CONTRACTOR SHALL CONNECT ALL NEW SERVICE LINES TO THE EXISTING WATER METERS AND VAULTS. (NO SEPARATE PAY ITEM).
- ALL CONCRETE PAVEMENT WITHIN THE PROJECT LIMITS SHALL BE SAWCUT. ALL SAWCUTS SHALL BE FULL DEPTH.
- NO TREES SHALL BE CUT DOWN OR TRIMMED WITHOUT PRIOR WRITTEN APPROVAL FROM THE TOWN OF ADDISON. ANY WORK DONE TO THE TREE OR WITHIN THE TREE DRIPLINE SHALL BE CONDUCTED IN THE PRESENCE OF THE TOWN OF ADDISON REPRESENTATIVE.
- THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITY POLES, LIGHT POLES, SIGNALS, AND GUY WIRES. (NO SEPARATE PAY ITEM)
- THE CONTRACTOR SHALL FURNISH, INSTALL & MAINTAIN ALL EROSION CONTROL DEVICES AS SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING MAILBOXES. TEMPORARY MAILBOXES SHALL BE INSTALLED BY THE CONTRACTOR AT ALL LOCATIONS WHERE EXISTING MAILBOXES WILL BE TEMPORARILY REMOVED DURING CONSTRUCTION. MAILBOXES AND MAIL SERVICE SHALL BE MAINTAINED THROUGHOUT THE PROJECT. (NO SEPARATE PAY ITEM)
- AN APPROVED BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED, WHERE ONE DOES NOT CURRENTLY EXIST, ON ALL WATER SERVICES AFTER THE METER LOCATED IN A SEPARATE BOX WITH A MINIMUM OF AN EIGHTEEN (18) INCH NIPPLE BETWEEN THE METER AND THE ASSEMBLY FOR TESTING AND REPAIRS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE ASSEMBLY TESTED UPON INSTALLATION BY A CERTIFIED TESTER, WHO SHALL PROVIDE THE ORIGINAL OF THE TEST REPORT TO THE TOWN OF ADDISON UTILITY DIVISION PRIOR TO FINAL, CONTINUOUS CONNECTION TO THE TOWN'S WATER SUPPLY.
- ALL WATER METERS SHALL HAVE A BACKFLOW PREVENTION ASSEMBLY INSTALLED ON THE PROPERTY OWNER SIDE OF THE WATER METER. ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE USC CERTIFIED.
- CONSTRUCTION STAKING SHALL BE SUBSIDIARY TO THE WATERLINE CONSTRUCTION. (NO SEPARATE PAY ITEM).
- ALL BARRICADES AND SIGNS SHALL BE PLACED WITH THE TOWN OF ADDISON'S APPROVAL PRIOR TO PLACEMENT.
- BEFORE THE NEWLY CONSTRUCTED WATER MAIN IS PERMITTED TO BE PLACED INTO SERVICE, IT SHALL BE PRESSURE TESTED, DISINFECTED AND TESTED FOR BACTERIA AT THE CONTRACTOR'S EXPENSE. TESTING IS TO BE ACCOMPLISHED BY A TOWN OF ADDISON APPROVED LAB. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DISINFECTION AND TESTING.
- STAGING AND STORAGE FOR THIS PROJECT SHALL BE APPROVED BY THE TOWN OF ADDISON PRIOR TO ANY CONSTRUCTION ACTIVITY. AT NO TIME WILL PUBLIC RIGHT-OF-WAY BE USED FOR STAGING OR STORAGE.
- ALL NEW DUMMY AND EXPANSION JOINTS SHALL MATCH EXISTING JOINT LOCATIONS
- CONTRACTOR SHALL VIDEO TAPE THE SITE IN ITS ENTIRETY PRIOR TO ANY CONSTRUCTION. (NO SEPARATE PAY ITEM)
- CONTRACTOR SHALL SUPPLY ASBUILT DRAWINGS TO THE TOWN OF ADDISON. DIMENSIONS AND LENGTH OF PIPE FROM BENDS AND VALVES SHALL BE LISTED.

NOTE: MUELLER "CENTURIUM" OR EQUAL. IN GENERAL, ALL FIRE HYDRANTS SHALL CONFORM TO AWWA STANDARD SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE FOR WATER AND SANITARY SEWER IMPROVEMENTS. FIRE HYDRANTS WITH A BARREL APPROXIMATELY 7" INSIDE DIAMETER. ALL HYDRANTS SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE. ALL HYDRANTS SHALL BE APPROVED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

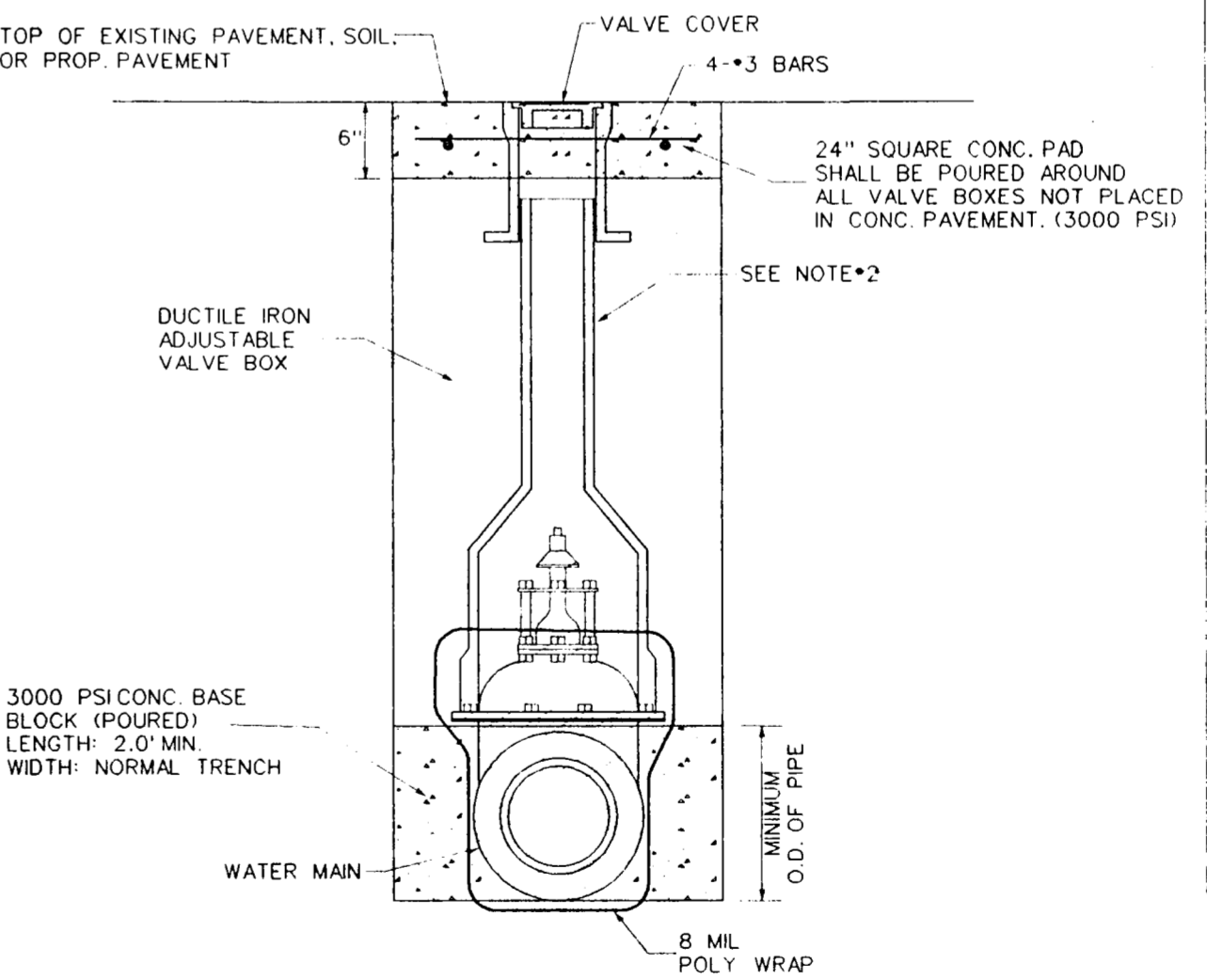


HORIZONTAL BEND THRUST BLOCK		Δ = 11.25°		Δ = 22.50°		Δ = 45°		Δ = 90°			
I.D. (IN)	C FT.	E FT.	G FT.	A FT.	B FT.	VOL. C.Y.	G FT.	A FT.	B FT.	VOL. C.Y.	
6.8	1.5	0.9	0.4	1.0	1.5	0.1	0.8	1.5	1.5	0.1	
10.12	1.5	3.5	0.6	16.18	2.0	5.5	1.6	20	2.0	6.0	1.9
24	2.5	7.0	3.1	30	3.0	7.5	4.1				

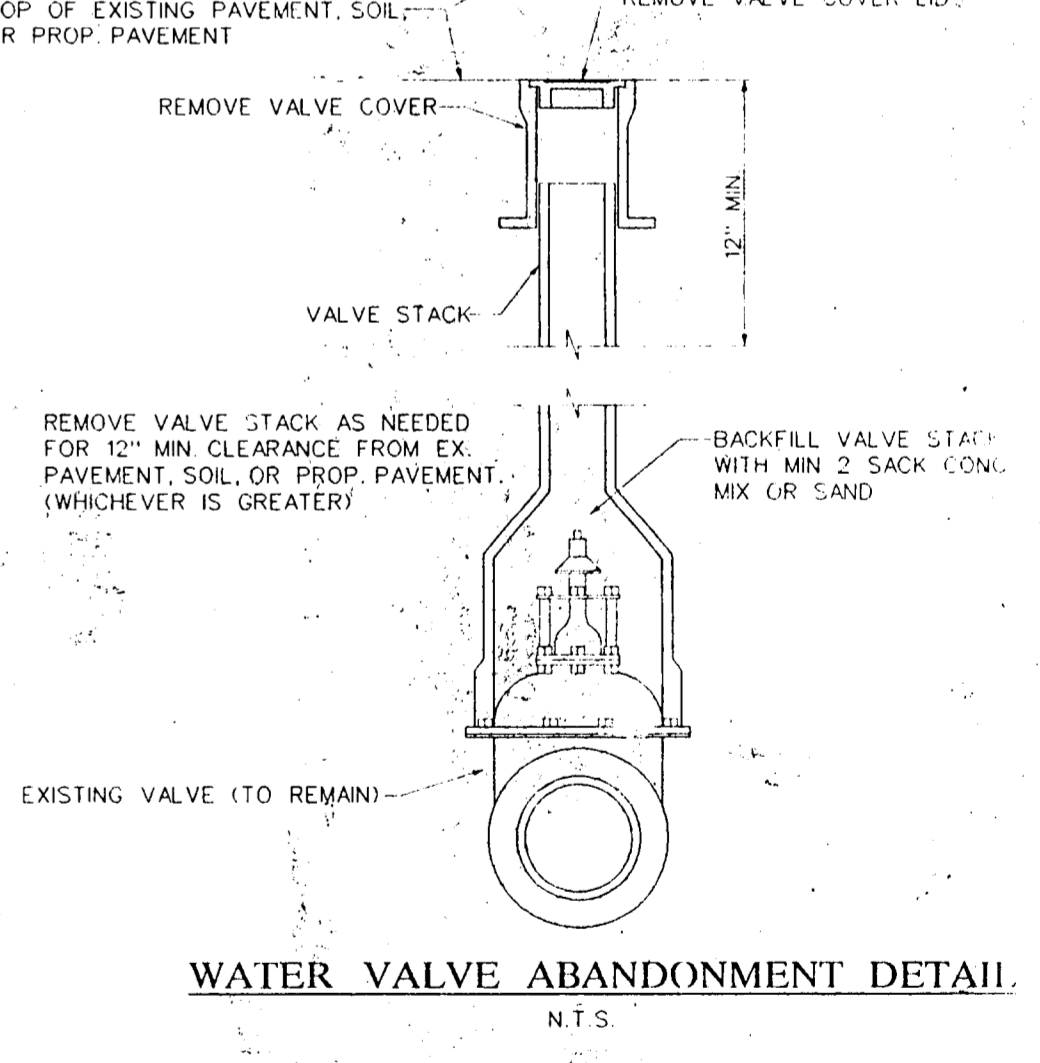


GENERAL NOTES FOR ALL THRUST BLOCKS  
 1. ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 P.S.I. (EXCEPT 30" I.D. - 150 P.S.I.)  
 2. CONCRETE FOR BLOCKING SHALL BE CLASS B, 2000 PSI CONCRETE.  
 3. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE C.M. THE NET VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN IN TABLES.

**TEE THRUST BLOCKING**



NOTES:  
 1. GATE VALVES SHALL BE IN ACCORDANCE WITH AWWA STANDARD C-509-80 OR LATEST THEREOF. ALL VALVES SHALL BE "MUELLER" OR APPROVED EQUAL.  
 2. A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE THAT ITS OPERATING NUT IS LOCATED IN EXCESS OF 4" BELOW THE TOP OF THE VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT IT'S TOP IS WITHIN 4" OF VALVE BOX LID. MANUFACTURED VALVE STACK DUCTILE IRON PIPE TO BE USED FOR EXTENSION GREATER THAN 4". BELL END OF STACK TO BE FITTED OVER VALVE. VALVE AND VALVE STACK IS TO BE POLY WRAPPED.  
 3. VALVES SHALL BE OF DUCTILE IRON W/RUBBER ENCAPSULATED DISK. BOLTS SHALL BE STAINLESS STEEL OF SAME SIZE ON EACH VALVE.  
 4. VALVE COVERS SHALL BE MARKED "WATER"



**TOWN OF ADDISON, TEXAS**  
ENGINEERING DEPARTMENT

**LINDBERGH WATER MAIN REPLACEMENT**

**GENERAL NOTES & MISCELLANEOUS DETAILS**

GUTIERREZ, SMOUSE, WILMUT & ASS. INC.  
CIVIL / ENVIRONMENTAL ENGINEERS  
1117 SHAWY TRAIL • DALLAS, TEXAS

DESIGN: GSW	SCALE: N.T.S.
DRAWN: GSW	CHECKED:
APPROVED: QCS	DATE: DEC. 2001

**ADDISON** 2 OF 6

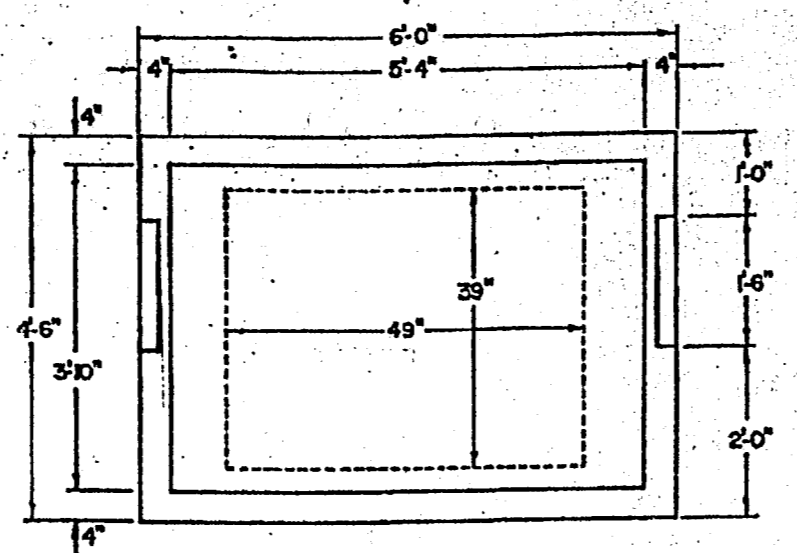
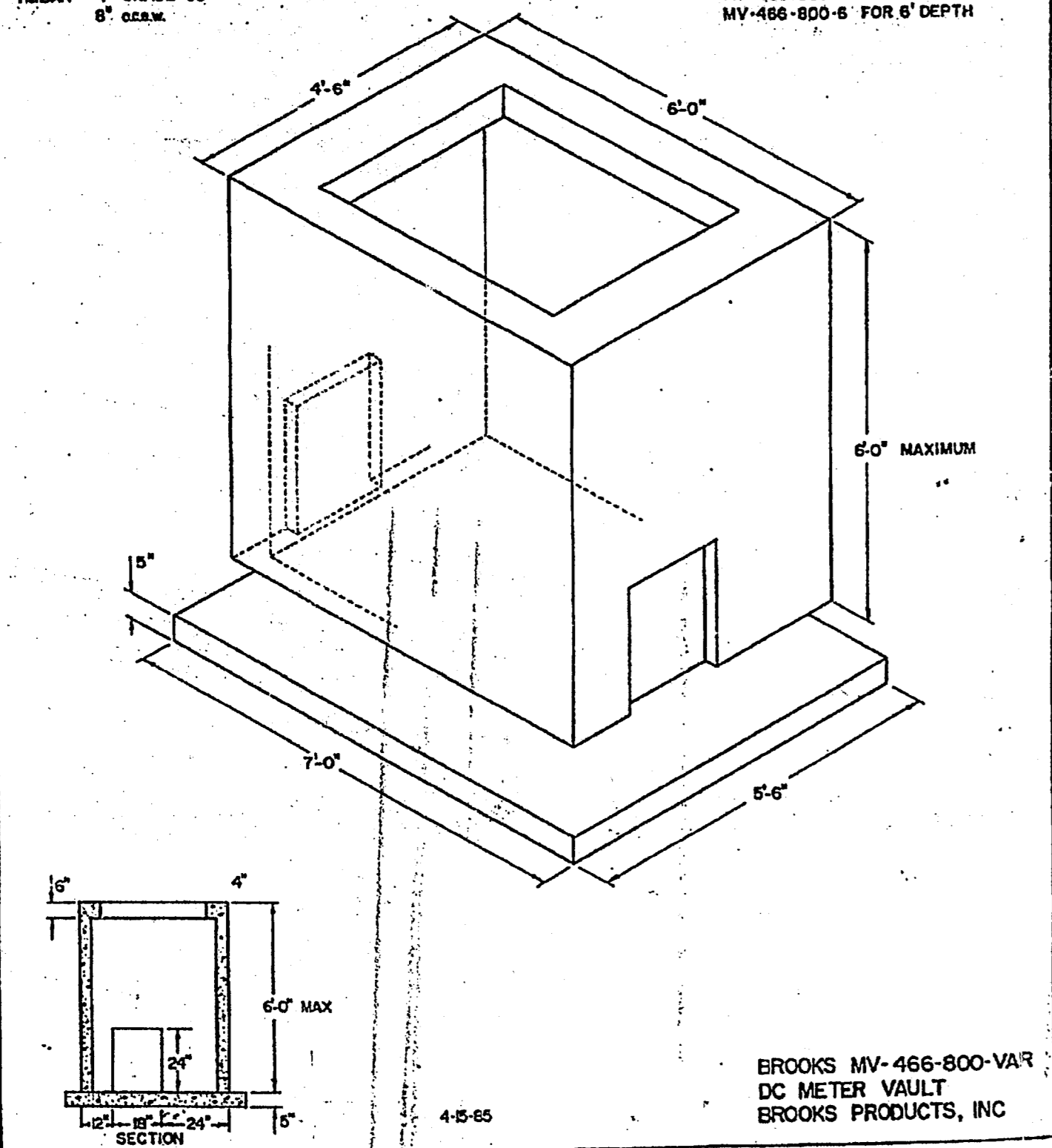
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 Date: December 14, 2001  
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 Project: Town of Addison - Lindbergh Dr. Waterline Replacement

NOTE: SEE BACK OF THIS PAGE FOR VARIOUS ROOF OPENINGS AND COVER SIZES

WHEN ORDERING SPECIFY:

CONCRETE: 4500 PSI  
REBAR: #4 GRADE 60  
8" CLEAR

MV-466-800-3 FOR 3' DEPTH  
MV-466-800-4 FOR 4' DEPTH  
MV-466-800-5 FOR 5' DEPTH  
MV-466-800-6 FOR 6' DEPTH



- 1. 39" x 49" CLEAR OPENING
- 3. TORSION BAR ASSIST HINGED STEEL COVERS: PARKWAY OR TRAFFIC: 3x4'
- 5. BILCO DOORS AVAILABLE BY SPECIAL ORDER

## Hersey Model ER-1 Electronic Encoder Register

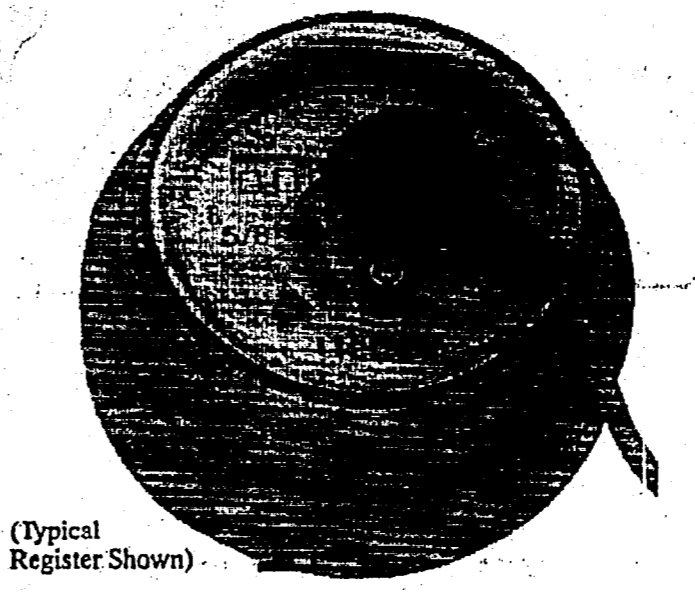
### Features

**APPLICATIONS:** The Hersey Model ER-1 Electronic Encoder Register is available on Hersey meters for remote reading of hard-to-access commercial, institutional and residential installations. With minimal cost and labor, it also can be retrofitted to virtually any Hersey meter already in service. The Model ER-1 register is compatible with any of the meter reading methods in the Hersey AMR System, which simplifies migration and provides additional cost savings.

**DESCRIPTION:** The Model ER-1 register uses solid-state circuitry to generate two electronic switch closures per revolution of the sweep hand. It provides extremely high "sixth wheel" resolution for greater accuracy. It also avoids metal-to-metal contacts which could corrode or wear. For direct reading, the register face has a low-flow (leak) detector, a straight reading odometer with large, easy to read numerals, and a sweep hand. It can be specified in US gallons, cubic feet, cubic meters, or Imperial gallons.

**CONFORMANCE TO STANDARDS:** Complies with AWWA Standard C707 for Encoded Remote Reading Systems when used with the Hersey Remote Reading System.

**CONSTRUCTION:** The fully encapsulated electronics do not penetrate the lens, assuring that the register is permanently sealed. Tamper resistant screws hold the electronics securely to the lens, and the register mounting has an integral tamper-proof feature. The connection between the electronics and the register's wiring cable is watertight.

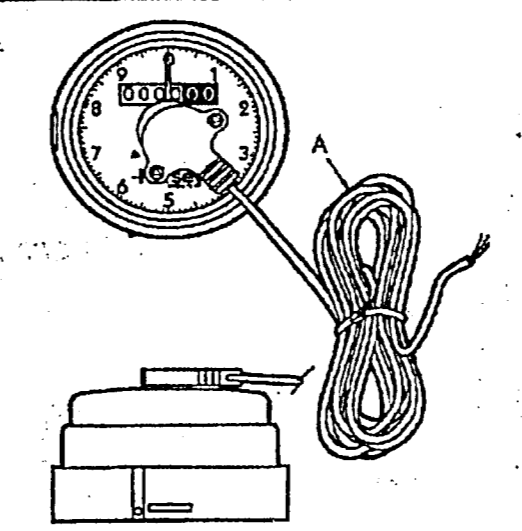


### Materials and Specifications

- MODEL: ER-1
- STANDARDS: Complies with AWWA Standard C707 for Encoded Remote Reading Systems (when used with the Hersey AMR System)
- REGISTER TYPE: Electronic encoding with visual readout
- CABLE: 3-wire (2-wire if alarm circuit not connected)
- TEMPERATURE RANGE: -33°F to 150°F

### Dimensions

Dimension	Dimension
A	1" Length, 15" Length, 30" Length, 75" Length



8.1

**ADDISON** PUBLIC WORKS DEPARTMENT  
Post Office Box 9010 Addison, Texas 75001-9010 (972) 450-2871 16801 Westgrove

### FIRE PROTECTION SYSTEM REQUIREMENTS FOR FINAL ACCEPTANCE

To whom it may concern:

The following will be required before the final acceptance of the underground portion (from water main to riser) of your fire protection system.

1. A State Fire Marshal Certificate of Registration for sales, installation, and service of fire protection sprinkler systems must be on file with the Town of Addison Fire Marshal's office. Copy to Public Works Inspector.
2. The name and license number of the Responsible Managing Employee must be on file with the Town of Addison Fire Marshal's Office. Copy to Public Works Inspector.
3. "As-Built" plans of the underground system, which have been signed by the Responsible Managing Employee, must be submitted to the Public Works Inspector.
4. Visual inspection, pressure test, and flush test will have been satisfactorily completed and verified by the Public Works Department.

After completion of the above items, a letter of acceptance will be sent to the contractor, and a copy will be sent to the Town of Addison Fire Marshal's Office.

**ADDISON** PUBLIC WORKS DEPARTMENT  
Post Office Box 9010 Addison, Texas 75001-9010 (972) 450-2871 16801 Westgrove

### FIRE LINE WATER SERVICE >2"

Contractors and/or plumbers are responsible for compliance with the following specifications:

All fire line services shall include an approved Double-Check Detector Assembly or Reduced Pressure Zone Detector Assembly at the point of connection to the City's water supply. An approved assembly shall be taken from the most current edition of the List of Approved Backflow Prevention Assemblies as published by the Foundation for Cross-Connection Control and Hydraulic Research, University of Southern California.

The Assembly shall be placed in a concrete vault of sufficient size to allow for convenient testing and/or repair. The vault shall have a concrete floor, and any joints shall be sealed to prevent infiltration of mud and silt. The vault doors shall be aluminum of the "Bilco" type (but not necessarily that brand), lockable, large enough to allow removal of the complete Assembly as a unit, and placed directly over the unit for ease of access. RPZ assemblies must be installed above ground according to manufacturer's specs, and protected from freezing and/or tampering with an approved enclosure.

The Assembly and piping shall be supported with manufactured supports designed for such application. (For clarification, reference Specification for Standoff Pipe Supports as manufactured by Material Resources Co., Hillsboro, Oregon; 503-693-0727 - Models S89 or S92.)

The Assembly shall be complete with the approved appurtenances. The detector meter shall be any one of the following: Hersey Model 430, Hersey MVR-30.

The detector meter piping shall have an in-line or angle curb-stop or an approved ball valve before the meter and the compatible Double-Check or RPZ Assembly after the meter, and a test port after the assembly.

Meters > 18" deep shall be equipped with Hersey ER-1 registers and Pit-Pak for connecting to touchless AMR system.

Mainline piping shall include a mechanical-joint flange adapter on the inlet end of the Assembly to facilitate future removal or replacement of the Assembly.

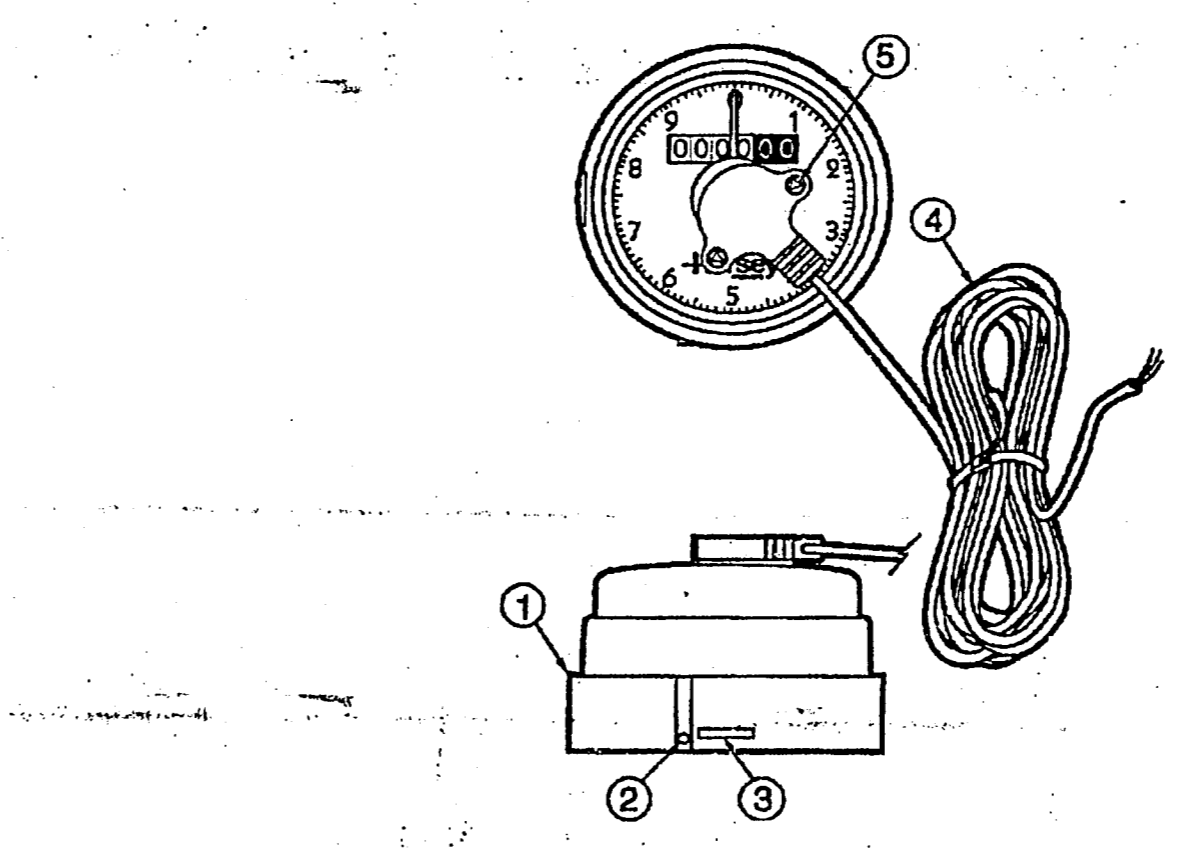
The contractor shall be responsible for having the Assembly tested by a "certified" Fire-Line Tester upon installation of the system, and prior to final, continuous connection to the City's water supply. A copy of the report shall be supplied to the Town of Addison Utility Division of the Public Works Department.

A meter deposit is required for all meters prior to initiation of service. Application and deposit will be made to the Town of Addison Utility Billing Department (972-450-7081) by the party responsible for the water bill.

See Figure FL-1 for dimensions of the vault etc. Deviations from this standard may be considered at the discretion of the Director of Public Works only insofar as the protection of the Public Water Supply is not compromised.

08/04/95 Updated 05/02/97

## Model ER-1 Parts Hersey Electronic Encoder Register



Ref. No.	Description	Part No.
1	Register Housing Base	CS805
2	Register Locking Pin (Plastic)	A12658
3	Register Housing Insert	CS882
4	ER-1 Encapsulated Module with 12 wire	B7890
	ER-1 Encapsulated Module with 30 wire	B81041
	ER-1 Encapsulated Module with 7.5 wire	B81042
5	Tri-wing Screw	AS7281
*	Tri-wing Tool (screwdriver style, less bit)	ERTOOL
*	Tri-wing Tool Bit	ERTOOLBIT
*	O-ring	98301

\* Not shown.

8.2

**Hersey** PRODUCTS  
Mettler Co., Dallas, TX 75272  
For Further Information, contact:  
Hersey Customer Service  
Charlotte, NC 27813  
1-800-722-5511  
1-800-233-8564 (in USA)

**Muller Co.**  
4800 W. 12th Street, Dallas, TX 75243

**ADDISON** PUBLIC WORKS DEPARTMENT  
Post Office Box 144 Addison, Texas 75001 (972) 450-2871 16801 Westgrove

### FIRE LINE WATER SERVICE > 2"

The following diagrams are for example only and do not endorse any particular manufacturer over another. Clearance dimensions should be at minimum in accord with the manufacturer's recommendations. Overall dimensions of the vault will be dependent on the size of the device that it contains. Be sure to read and follow all the specifications provided on separate sheet. Questions for clarification may be directed to: Utility Inspections at 972-450-7047 or the Utility Division of the Public Works Department at 972-450-2871.

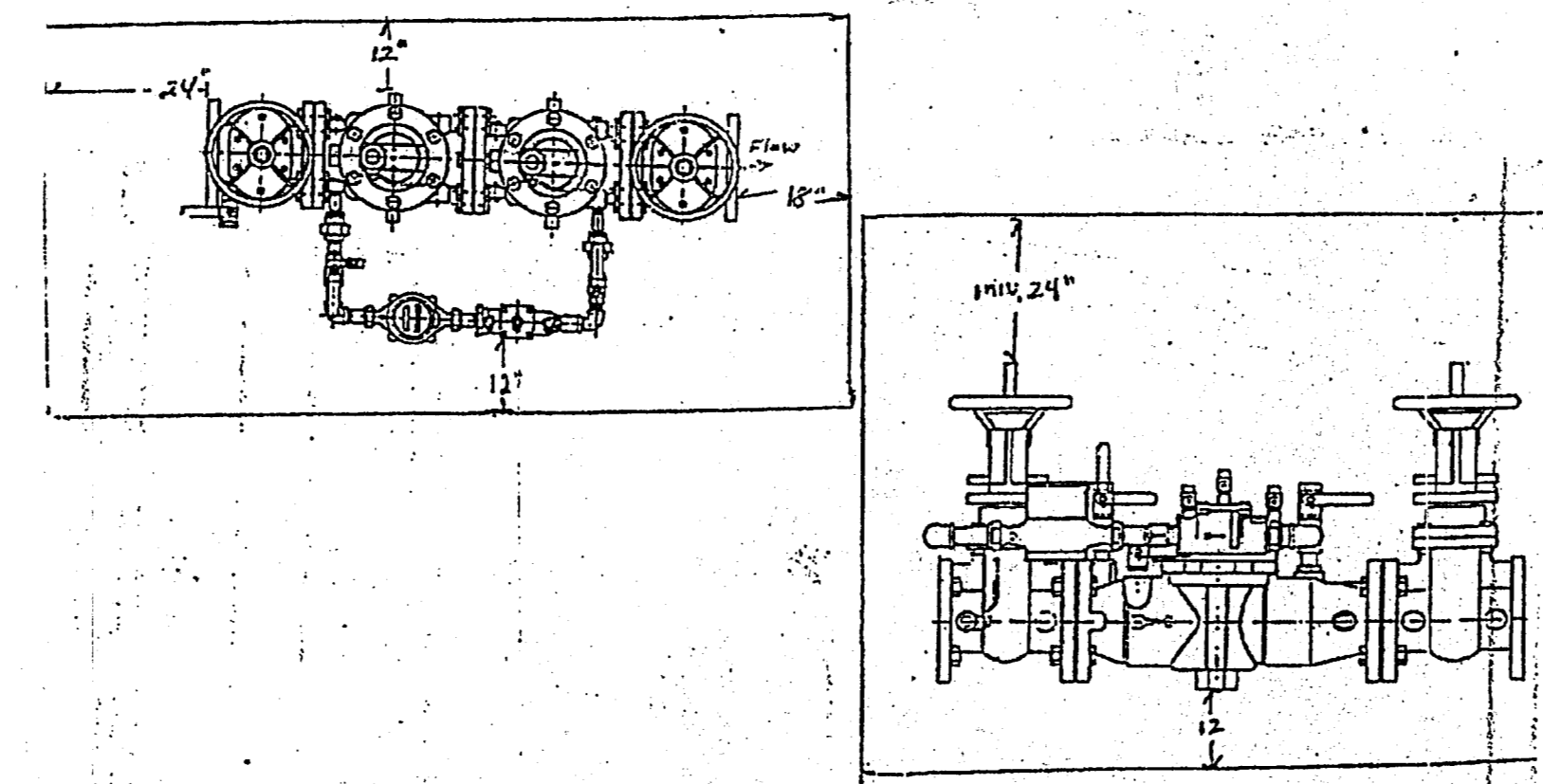


Figure FL-1

PLAN VIEW

ELEVATION

Specifications

CONCRETE: Class 3 concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional floor to required depth.

REINFORCEMENT: Grade 60 reinforced steel rebar conforming to ASTM A618 on required centers or equiv.

HATCHWAY: 1/2" Minimum diamond plate cover with 1/2" extruded aluminum frame. Hatch to be finished with 316 Stainless Steel step lock & hinges.

Engineering Data: The factory assembly shall be factory assembled in vault & hydrostatically tested prior to delivery. Field excavation at preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

PROJECT: DBBP-AD  
CUSTOMER:  
ENGINEER:

SCALE: NONE  
DATE: DBBP-AD  
REV.:

REPLACE PAVEMENT WITH CLASS "K" CONC., PAVEMENT CONST. SIMILAR TO SEC. B-B.

STA 0+00  
INSTALL:  
1-8"x8" TAPPING SLEEVE & VALVE  
CONNECT TO EX. 8" WATER LINE

FULL DEPTH SAWCUT & REMOVE EX. 6" CURB AND STREET PAVEMENT CLEAN AND EXPOSE 18" OF EX. STEEL OR DRILL AND GROUT #4 REBAR ON 18" CENTERS. INSTALL 8" THICK 4000 PSI CLASS "K" REINFORCED CONCRETE ON COMPACTED SUBGRADE. CLEAN AND EXPOSE 18" OF EX. STEEL OR DRILL AND GROUT #5 SMOOTH DOWELS ON 18" CENTERS.

STA 0+10  
INSTALL:  
1-8"x6" TEE  
1-6" VALVE  
1-FIRE HYDRANT  
10 L.F. OF 6" AWWA C-909 PVC WATER LINE  
REMOVE AND SALVAGE EX. F.H. AND VALVE & CAP.

SAWCUT, REMOVE, AND REPLACE 35 SY OF 4" THICK 3000 PSI CONC. SLOPED PAVEMENT WITH #4 REBAR ON 18" CENTERS BOTH WAYS.

STA 1+25, P.I.  
INSTALL:  
1-8" 90° HORIZ. BEND  
A = 90° RT

INSTALL 8" AWWA C-909 PVC WATER MAIN  
ABANDON EX. 8" WATERLINE IN PLACE  
REMOVE EX. 8" SAN. SEWER FORCE MAIN  
FROM STA 1+72 TO STA 14+30

REMOVE AND SALVAGE EXISTING FH AND VALVE STACK & CAP

CENTER ONE LENGTH OF PIPE WITH CEMENT STABILIZED BACKFILL OVER EX. SAN. SEWER

CUT & PLUG EX. 8" WATER LINE

INSTALL CURB INLET PROTECTION, SEE DETAIL

SAWCUT, REMOVE, & REPLACE EX. CONC. PAVEMENT WITH CLASS "K" REINFORCED CONC.

BORING LOC. B-1

STA 1+72.6, P.I.  
INSTALL:  
1-8" 90° HORIZ. BEND  
A = 90° LT  
CUT AND PLUG ABAN. 8" FORCE MAIN

STA 1+98  
INSTALL:  
1-8"x6" TEE  
1-6" VALVE  
CONNECT TO EX. WATER VAULT CONNECTION TO VAULT IS A NO PAY ITEM

CONTRACTOR TO REPLACE ASPHALT ON TOP OF NEW CONCRETE TO SAME LINE AND GRADE. (NO SEPARATE PAY ITEM)

STA 3+58  
INSTALL:  
1-8" VALVE  
1-8"x6" TEE  
1-6" VALVE  
1-6" 90° BEND  
1-FIRE HYDRANT  
10 L.F. OF 6" AWWA C-909 PVC WATER LINE

INSTALL 8" AWWA C-909 PVC WATER MAIN  
ABANDON EX. 8" WATERLINE IN PLACE  
REMOVE EX. 8" SAN. SEWER FORCE MAIN  
FROM STA 1+72 TO STA 14+30

NOTICE !!!  
CONTRACTOR SHALL WIDEN TRENCH AS NEEDED TO ADJUST THE ALIGNMENT OF THE WATERLINE TO AVOID THE UNDERGROUND TELEPHONE AS NECESSARY AND AS DIRECTED BY THE ENGINEER (NO SEPARATE PAY ITEM)


CAUTION !!  
EXISTING GAS SERVICES ARE PRESENT. LOCATION NOT KNOWN

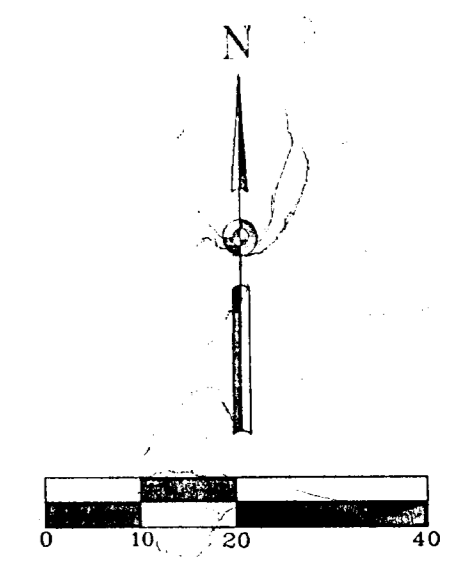
NOTICE !!  
THE CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION.

NOTICE !!  
THE CONTRACTOR SHALL MAINTAIN WATER SERVICE AT ALL TIMES DURING CONSTRUCTION.

NOTICE !!  
THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT ALL OVERHEAD UTILITIES FROM DAMAGE. REPAIR OF DAMAGED UTILITIES WILL AT THE CONTRACTOR'S OWN EXPENSE.

BENCHMARKS:  
BM#12 = SQUARE CUT ON HEADWALL NORTH OF RAILROAD, EAST SIDE OF MIDWAY (SOURCE DATUM, TOWN OF ADDISON BENCHMARKS), ELEV. = 617.77  
BM#15 = SQUARE CUT ON INLET NE CORNER MIDWAY & WILEY POST. (SOURCE DATUM, TOWN OF ADDISON BENCHMARKS), ELEV. = 631.48  
TBM-A = SQUARE CUT ON TOP OF CURB ON MEDIAN NOSE SOUTH SIDE OF INTERSECTION OF LINDBERGH AND MIDWAY. ELEV. = 621.65  
TBM-B = RAILROAD SPIKE IN POWER POLE ON SOUTH SIDE OF LINDBERGH APPROXIMATELY 44' EAST OF CENTERLINE MIDWAY. ELEV. = 626.78  
TBM-C = SQUARE CUT AT NORTHEAST CORNER OF CURB INLET ON SOUTH SIDE OF LINDBERGH ACROSS FROM #431 LINDBERGH (MIDWAY PRESS, INC.). ELEV. = 625.78

REVISION NO.	DESCRIPTION	BY
<b>TOWN OF ADDISON, TEXAS ENGINEERING DEPARTMENT</b>		
<b>LINDBERGH WATER MAIN REPLACEMENT</b>		
<b>STA 0+00 TO STA 9+50</b>		
 GUTIERREZ, SMOUSE, WILMUT & ASSOCIATES, INC. CIVIL / ENVIRONMENTAL ENGINEERS 1117 SHADY TRAIL • DALLAS, TEXAS		
DESIGN:	GSW	SO
DRAWN:	GSW	SO
APPROVED:	OGS	SO
DATE:	DEC. 2001	5 OF 6



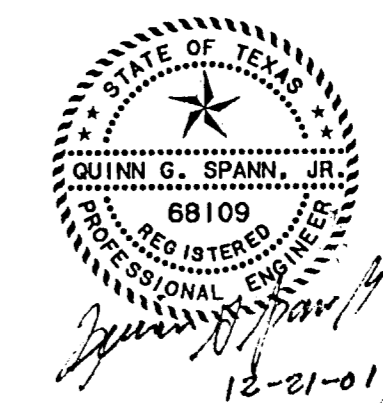
MATCHLINE STA 4+50

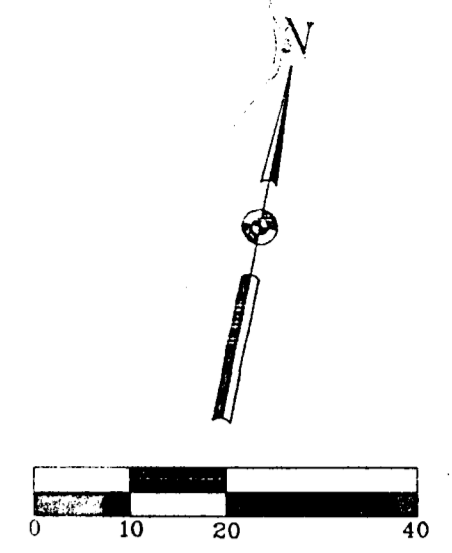
MATCHLINE STA 4+50

MATCHLINE STA 9+50

Plot Driver: DPW.plt  
 Date: December 14, 2001 5:15 PM  
 Project: Town of Addison "Lindbergh Dr. Waterline Replacement"

ADDISON AIRPORT INDUSTRIAL DISTRICT  
VOLUME 50 PAGE 207  
DALLAS COUNTY PLAT RECORDS





**INSTALL 8" AWWA C-909 PVC WATER MAIN**  
 ABANDON EX. 8" WATERLINE IN PLACE  
 REMOVE EX. 8" SAN. SEWER FORCE MAIN  
 FROM STA 1+72 TO STA 14+30

CONTRACTOR TO TAKE ALL NECESSARY PRECAUTIONS TO KEEP SERVICE LINE OUT OF TREE DRIPLINE

REMOVE AND SALVAGE EXISTING FH AND VALVE STACK & CAP.

CUT & PLUG EX. 8" WATER LINE

STA 15+36  
 CONNECT TO EX. 8" WATER  
 INSTALL:  
 1-8" X 8" TAPPING SLAVE AND VALVE.

REMOVE AND SALVAGE EXISTING FH AND VALVE STACK & CAP.

CAUTION !!!  
 THE CONTINUATION OF THE 6" SAN. SEWER IS NOT KNOWN BEYOND THIS POINT

2" WATER SERVICE BY BORING, CONNECT TO EX. METER

2" WATER SERVICE BY BORING, CONNECT TO EX. METER

CAUTION !!!  
 EXACT LOCATION OF SAN. SEWER SERVICE CONNECTION NOT KNOWN

CONTRACTOR TO LOCATE FIBER OPTIC PRIOR TO SERVICE BEING BORED.

STA 15+19, P.I.  
 INSTALL:  
 1-8" 45° HORIZ. BEND  
 Δ = 45° LT

CURVE #1 DATA  
 PC STA 9+69.7  
 PT STA 10+69.3  
 R = 422.0'  
 Δ = 13.53°  
 L = 99.6'  
 T = 50.1'

2" WATER SERVICE CONNECT TO EX. RELOCATED METER

2" WATER SERVICE CONNECT TO EX. METER

SAWCUT, REMOVE, & REPLACE EX. CONC. PAVEMENT.

CUT & PLUG ABANDONED 8" FORCE MAIN

MATCHLINE STA 9+50

LINDBERGH DR.

PROP. 8" WATER

PROP. 8" WATER

CURVE #2 DATA  
 PC STA 12+51.5  
 PT STA 14+29.6  
 R = 309.0'  
 Δ = 33.03°  
 L = 178.1'  
 T = 91.6'

STA 14+29.6 P.I.  
 INSTALL:  
 1-8" 90° HORIZ. BEND  
 Δ = 90° LT

STA 12+66  
 INSTALL:  
 1-8" VALVE  
 1-8" X 6" TEE  
 1-6" VALVE  
 1-FIRE HYDRANT  
 10 L.F. OF 6" AWWA C-909 PVC WATERLINE

REMOVE EX. VAULT AND VAULT CONTENTS. (NO SEPARATE PAY ITEM FOR REMOVAL), PAYMENT FOR REMOVAL SHALL BE INCLUDED IN UNIT BID PRICE FOR NEW VAULT CONSTRUCTION.

STA 10+40  
 INSTALL:  
 1-8" X 8" TEE  
 1-8" VALVE  
 CONSTRUCT NEW 8" FIRE VAULT PER STD DETAIL SHEET. CONNECT TO EX. 8" FIRELINE.

STA 9+69.7 & 9+70.7  
 INSTALL:  
 2-45° HORIZ. BENDS  
 CUT AND PLUG ABANDONED 8" FORCE MAIN

CONTRACTOR IS RESPONSIBLE FOR WORKING WITH UTILITY COMPANIES TO HAVE CONFLICTING UTILITIES ADJUSTED FOR NEW FIRE VAULT CONSTRUCTION. (NO SEPARATE PAY ITEM)

ADDISON AIRPORT INDUSTRIAL DISTRICT  
 VOLUME 30 PAGE 207  
 CITY PLAT RECORDS

**NOTICE !!!**  
 CONTRACTOR SHALL WIDEN TRENCH AS NEEDED TO ADJUST THE ALIGNMENT OF THE WATERLINE TO AVOID THE UNDERGROUND TELEPHONE AS NECESSARY AND AS DIRECTED BY THE ENGINEER (NO SEPARATE PAY ITEM)

CAUTION !!  
 EXISTING GAS SERVICES ARE PRESENT, LOCATION NOT KNOWN

NOTICE !!  
 THE CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION.

NOTICE !!  
 THE CONTRACTOR SHALL MAINTAIN WATER SERVICE AT ALL TIMES DURING CONSTRUCTION.

NOTICE !!  
 THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT ALL OVERHEAD UTILITIES FROM DAMAGE. REPAIR OF DAMAGED UTILITIES WILL AT THE CONTRACTOR'S OWN EXPENSE.

- LEGEND
- E - OVERHEAD ELECTRIC
  - EA - EDGE ASPHALT
  - FO - FIBER OPTICS
  - G - GROUND
  - GB - GRADE BREAK
  - GU - GUTTER
  - T - OVERHEAD TELEPHONE
  - TC - TOP OF CURB
  - UE - UNDERGROUND ELECTRIC
  - UG - UNDERGROUND GAS
  - UT - UNDERGROUND TELEPHONE
  - US - UNDERGROUND SANITARY SEWER
  - UW - UNDERGROUND WATER
  - XARMS - CROSSARMS
  - - - PROPOSED WATER MAIN
  - ▭ - PAVEMENT REPLACEMENT
  - ▨ - PAVEMENT REPLACEMENT WITH CLASS "K" CONCRETE

- BENCHMARKS:
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TOWN OF ADDISON, TEXAS  
 ENGINEERING DEPARTMENT  
 LINDBERGH WATER MAIN REPLACEMENT

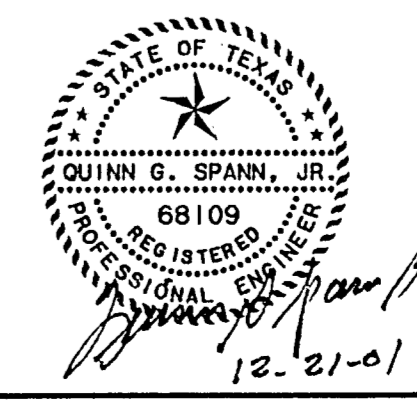
STA 9+50 TO STA 15+22

GUTIERREZ, SMOUSE, WILMUT & ASSOC.  
 CIVIL / ENVIRONMENTAL ENGINEERS  
 1117 SHADY TRAIL • DALLAS, TEXAS • 75201

DESIGN: GSW  
 DRAWN: GSW  
 APPROVED: GCS  
 DATE: DEC. 2001

SCALE: H 1" = 20'  
 SHEET: 6 OF 6

ADDISON



Plt Driver: DFW.plt  
 Date: December 14, 2001 5:15PM  
 Project: Town of Addison "Lindbergh Dr. Waterline Replacement"