

TOWN OF ADDISON

ADDISON, TEXAS

LINDBERGH DRIVE WATERLINE REPLACEMENT

(FROM MIDWAY RD. TO APPROXIMATELY 1,350 L.F. EAST)

R. SCOTT WHEELER
Mayor

GLYNDA TURNER
Mayor Pro-Tem

DIANE MALLORY
Councilman

BOB BARRETT
Councilman

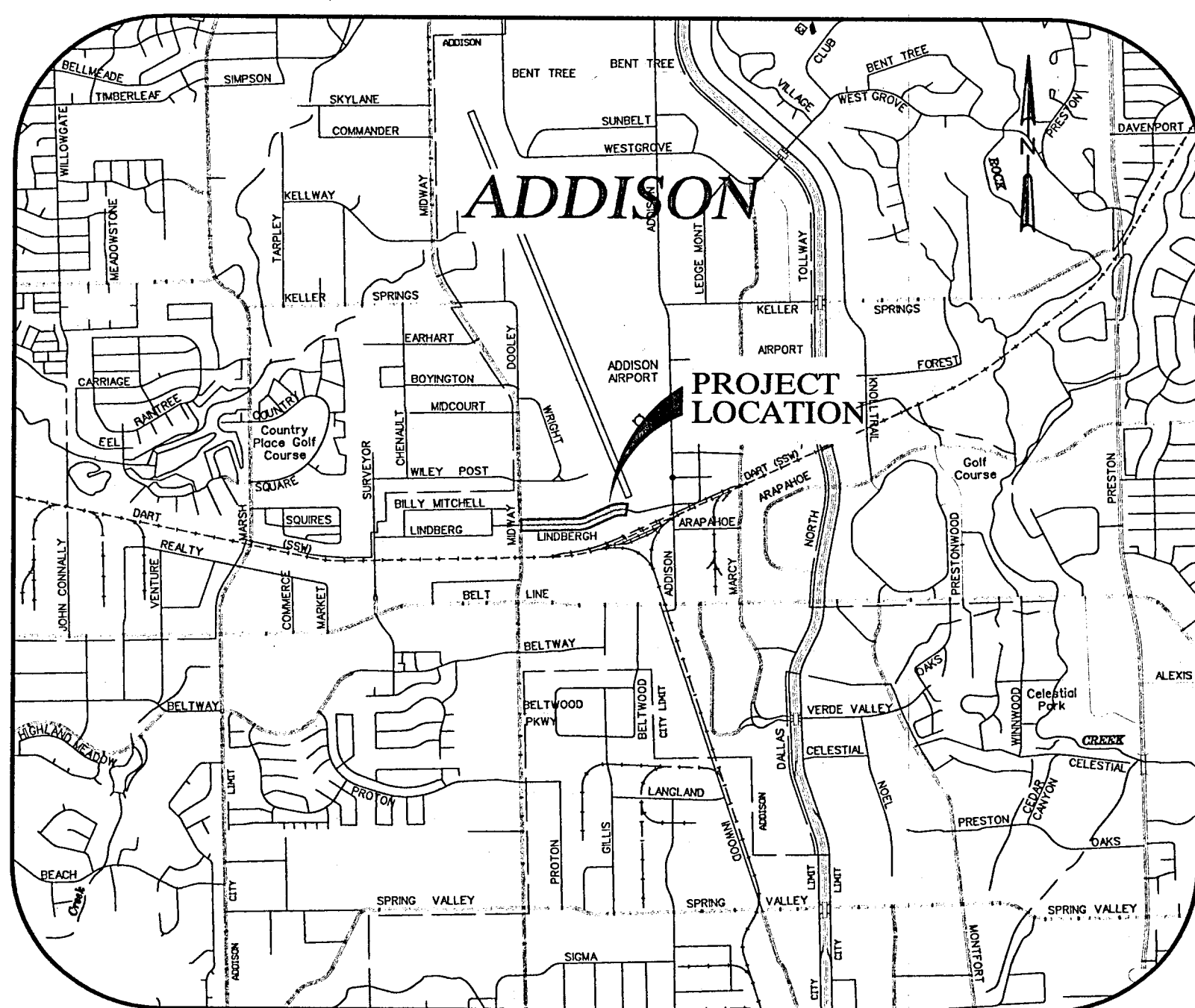
FRANK R. KLEIN
Councilman

FREDRICK M. SILVER
Councilman

RON WHITEHEAD
City Manager

CATHY WAYS
Deputy Mayor Pro-Tem

MIKE MURPHY
Director of Public Works



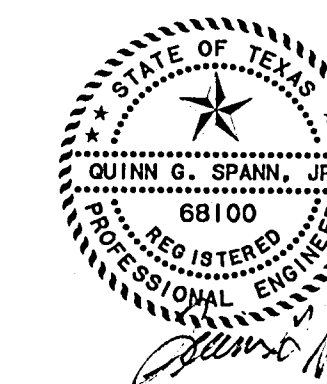
PROJECT LOCATION

DECEMBER 2001



GUTIERREZ, SMOUSE, WILMUT & ASSOC., INC.
1117 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
SHEET 4	TOWN OF ADDISON STD. DETAIL
SHEET 5	WATER PLAN, STA 1+00 TO STA 8+50
SHEET 6	WATER PLAN, STA 8+50 TO STA 15+22



RECORD DRAWING
The improvements shown on this drawing were prepared from periodic observations made by the Engineer, periodic observations made by the Project Representative, information provided by aerial and/or on the ground surveys, information provided by the Owner and/or information provided by the General Contractor. To the best of our knowledge, the information provided herein represents the improvements as constructed.
DATE: 8/09/2002

INDEX OF SHEETS

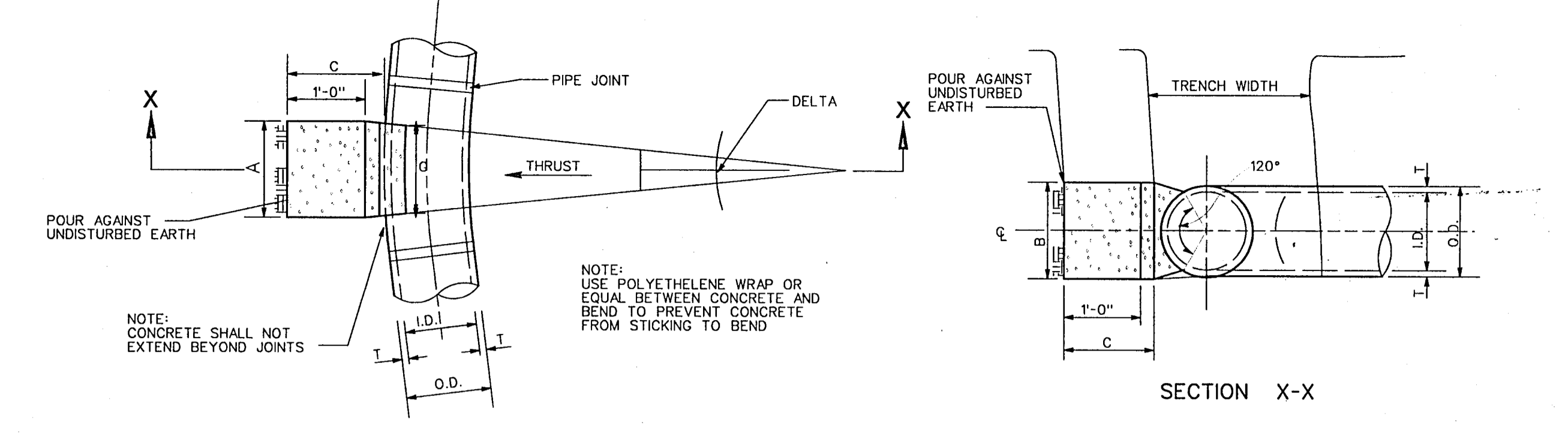
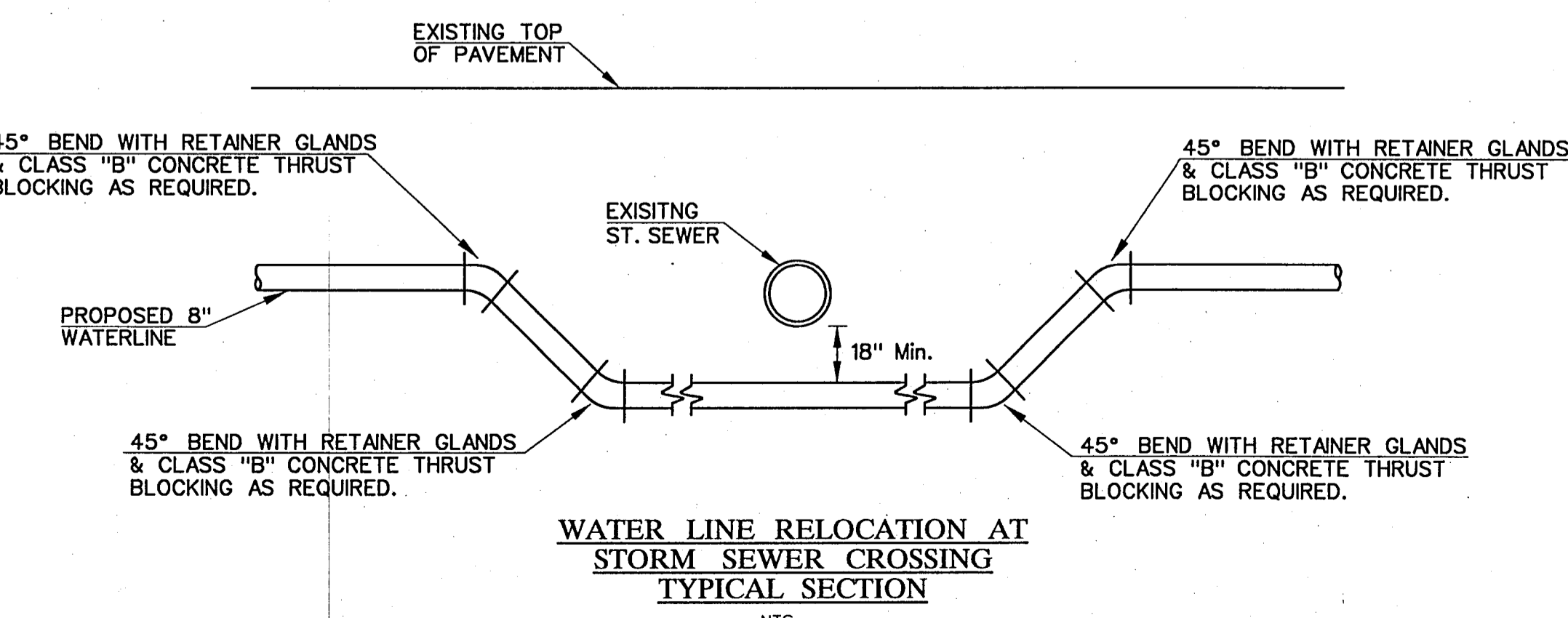
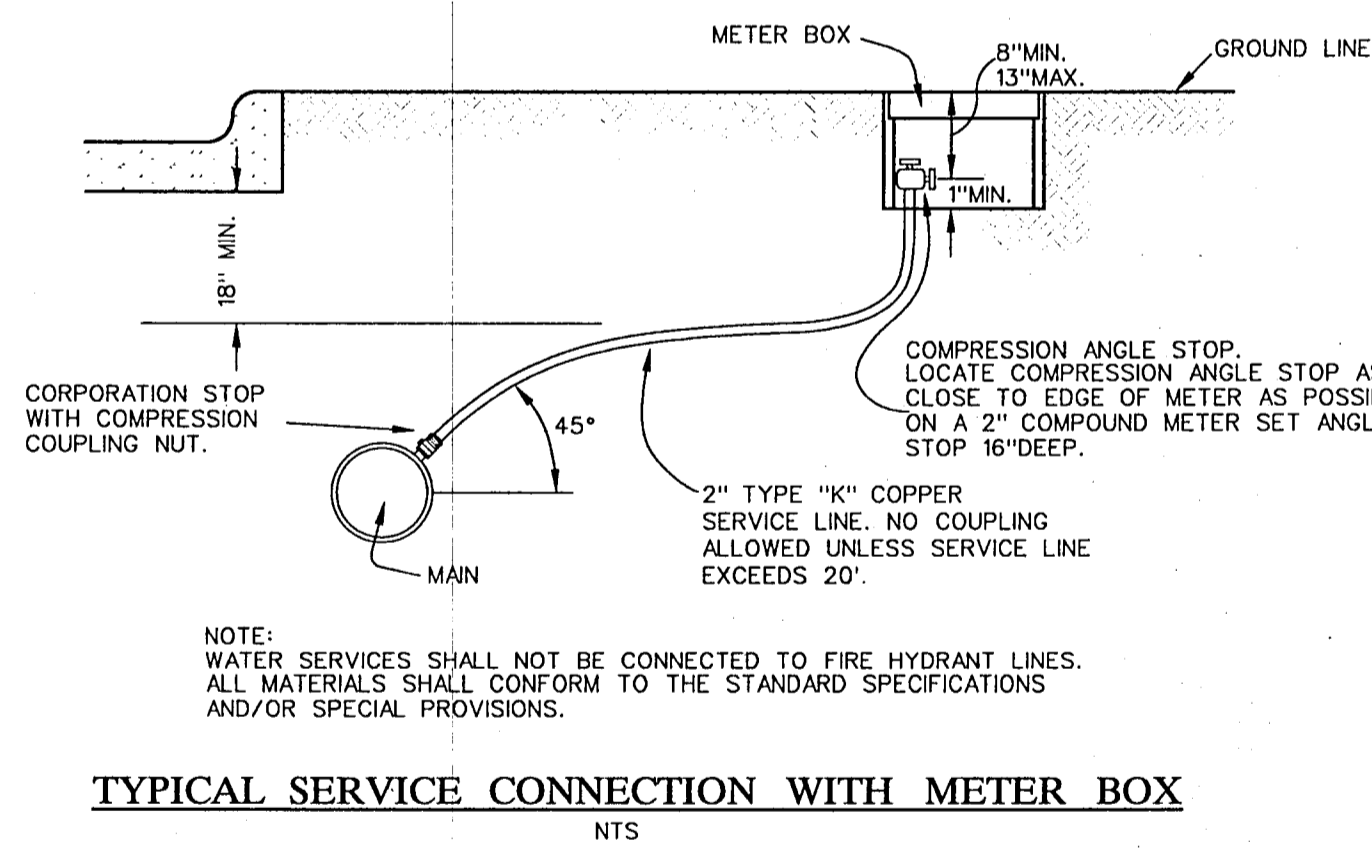
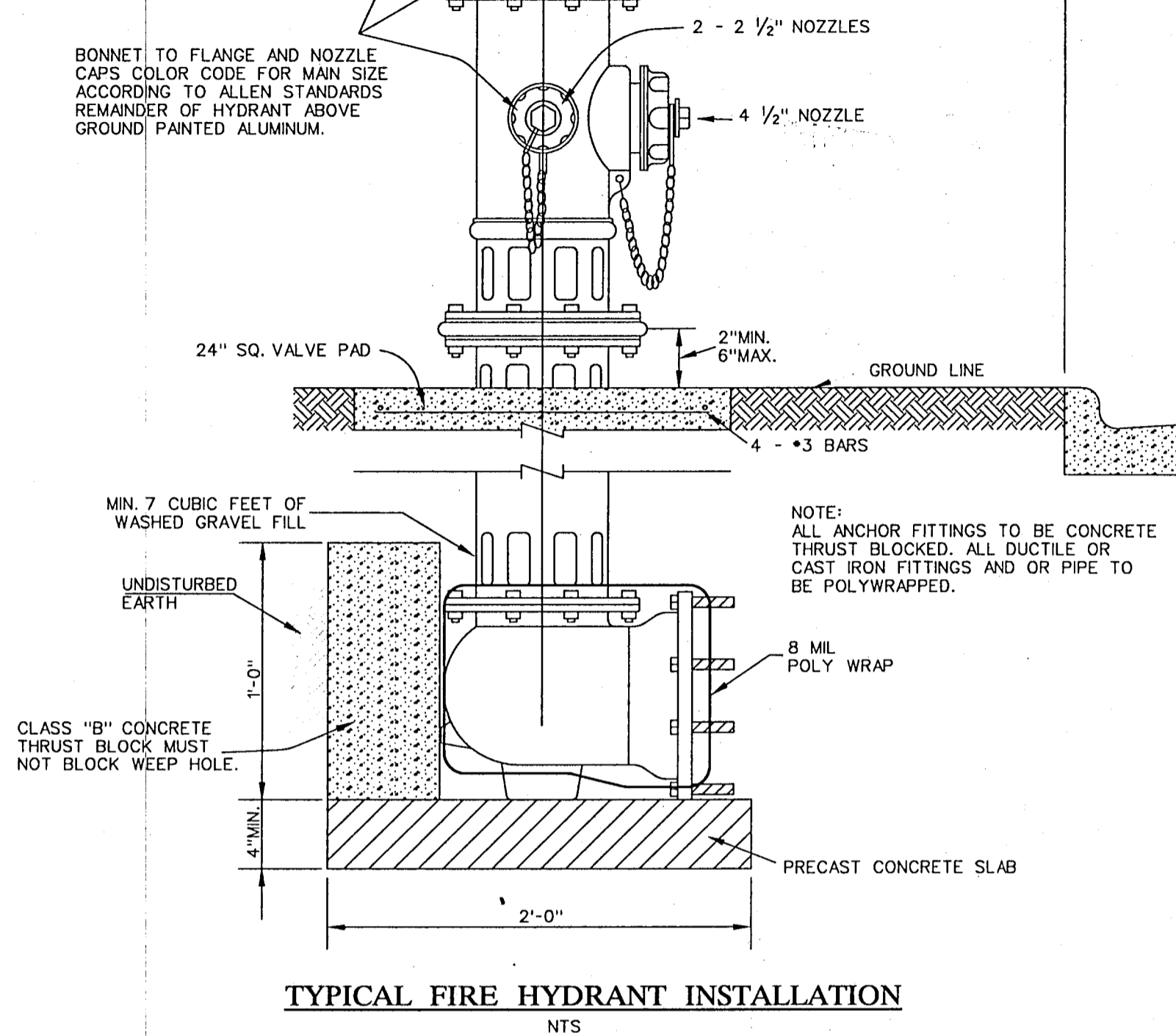
LINDBERGH WA REPLACEMENT 2002 A-S-BUILT

ADDISON GENERAL CONSTRUCTION NOTES

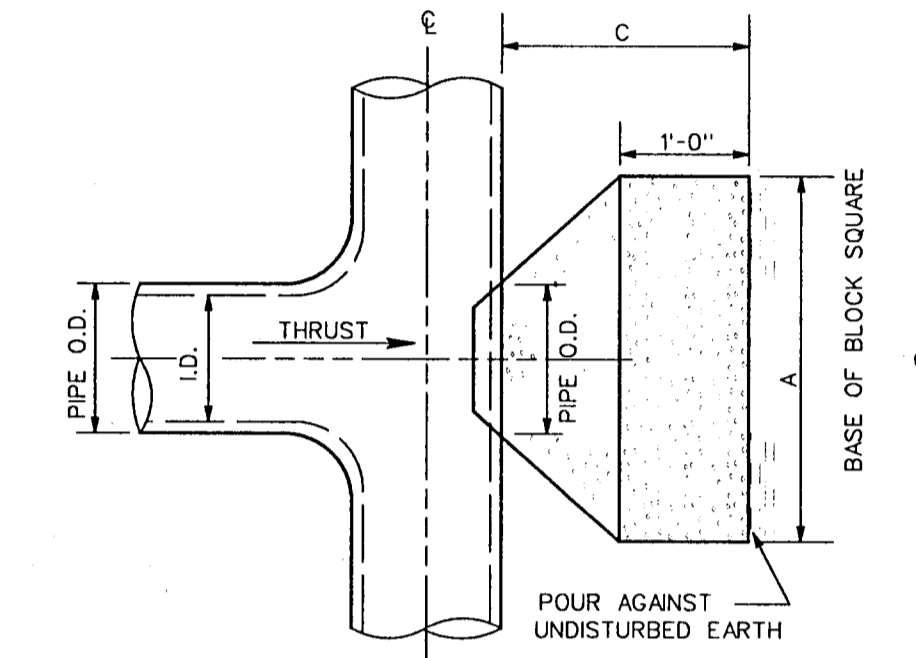
- UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE & FOR INFORMATIONAL PURPOSES ONLY AND DOES NOT PRECLUDE THE EXISTENCE OF OTHER UNDERGROUND FACILITIES WHICH ARE NOT SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE UTILITY OWNERS TO ARRANGE FOR EXACT LOCATIONS AT LEAST 48 HOURS PRIOR TO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

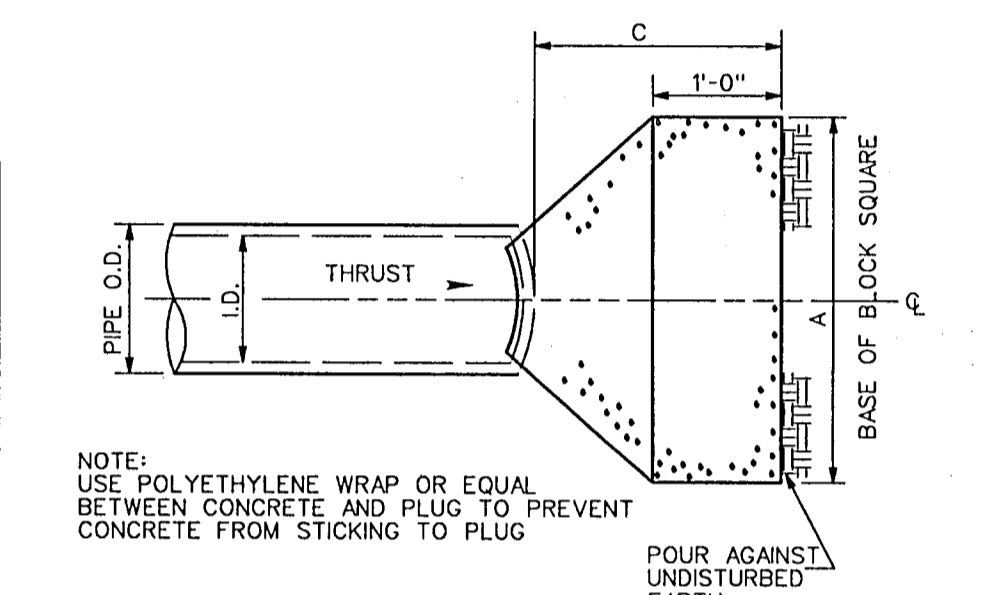
NOTE: MUELLER "CENTURIAN" OR EQUAL. IN GENERAL, ALL FIRE HYDRANTS SHALL CONFORM TO AWWA STANDARD SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE FOR WATER AND SANITARY SEWER IMPROVEMENTS. FIRE HYDRANTS WITH A BARREL APPROXIMATELY 7" INSIDE DIAMETER. ALL HYDRANTS SHALL BE EQUIPPED WITH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



I.D. (IN)	C FT.	E FT.	G FT.	A FT.	B FT.	VOL. C.Y.	HORIZONTAL BEND THRUST BLOCK											
							Δ - 11.25°	Δ - 22.50°	Δ - 45°	Δ - 90°								
6,8	1.5	0.9	0.4	1.0	1.5	0.1	0.8	1.5	1.5	0.1	1.5	2.0	2.0	0.2	2.7	5.0	1.5	0.4

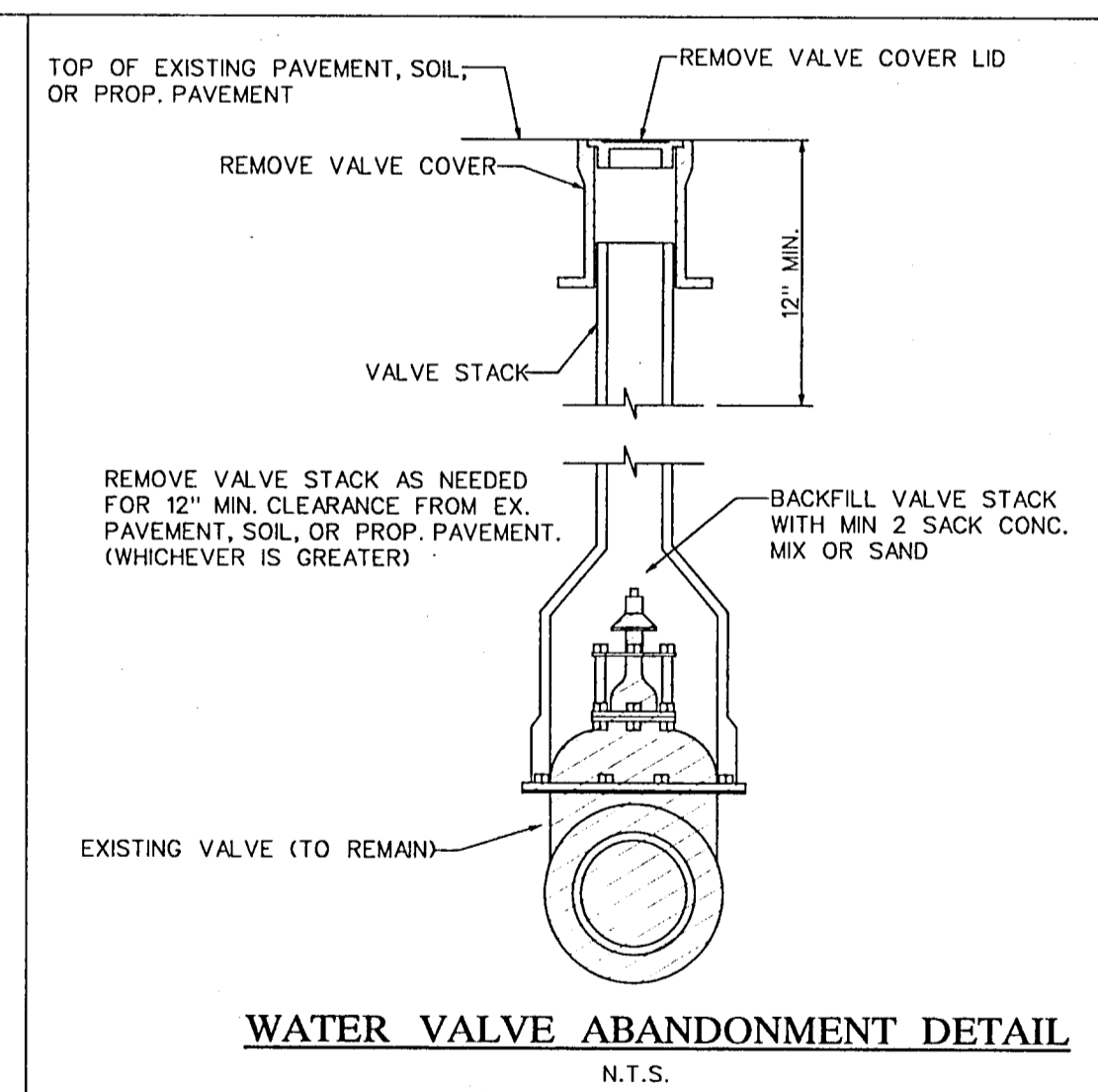
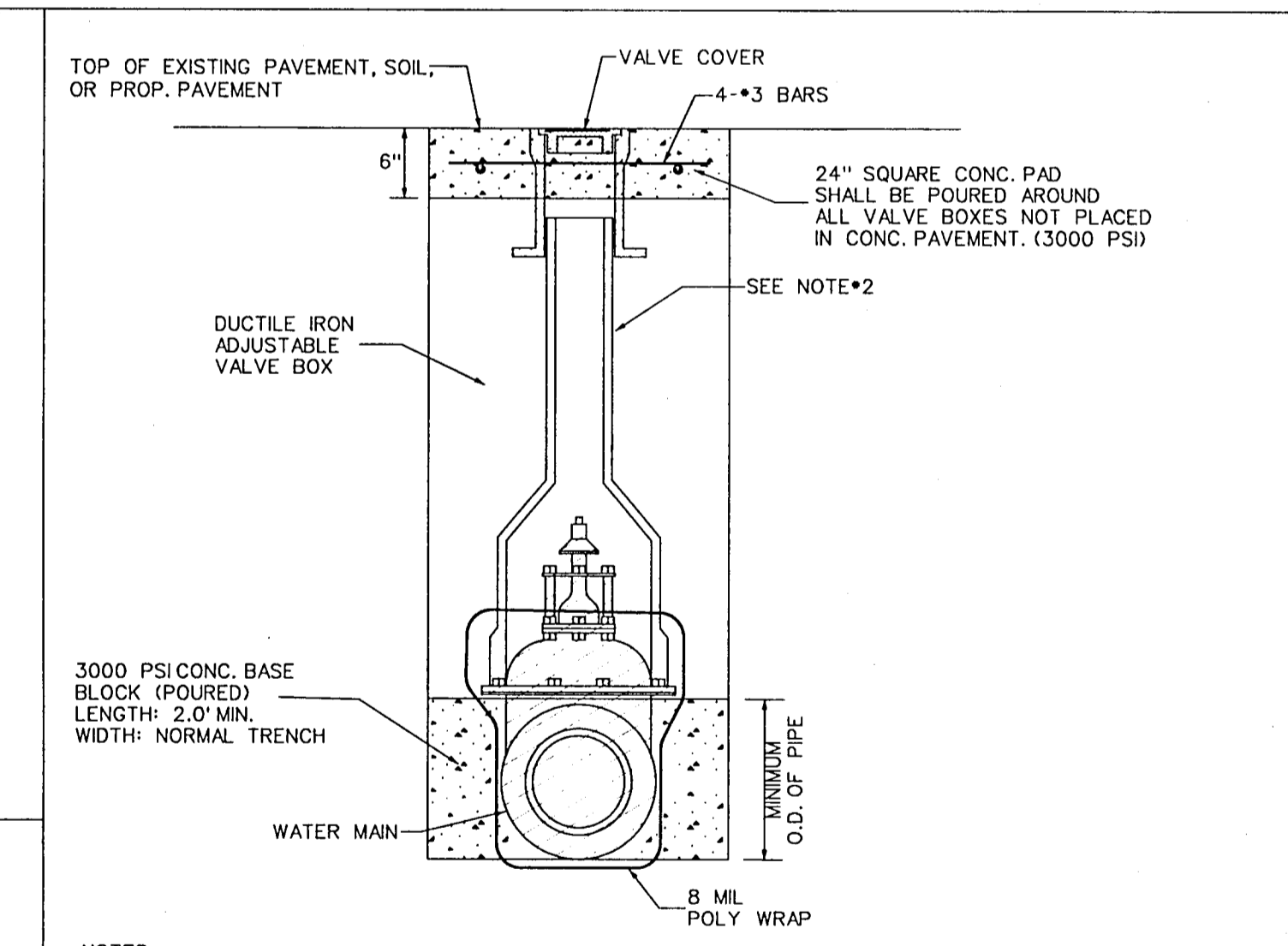


I.D. (IN)	C FT.	A FT.	VOL. C.Y.
10,12	1.5	3.5	0.6
16,18	2.0	5.5	1.6
20	2.0	6.0	1.9
24	2.5	7.0	3.1
30	3.0	7.5	4.1



GENERAL NOTES FOR ALL THRUST BLOCKS

- ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 P.S.I. (EXCEPT 30" I.D. - 150 P.S.I.)
- CONCRETE FOR BLOCKING SHALL BE CLASS B, 2000 PSI CONCRETE.
- 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.



RECORD DRAWING

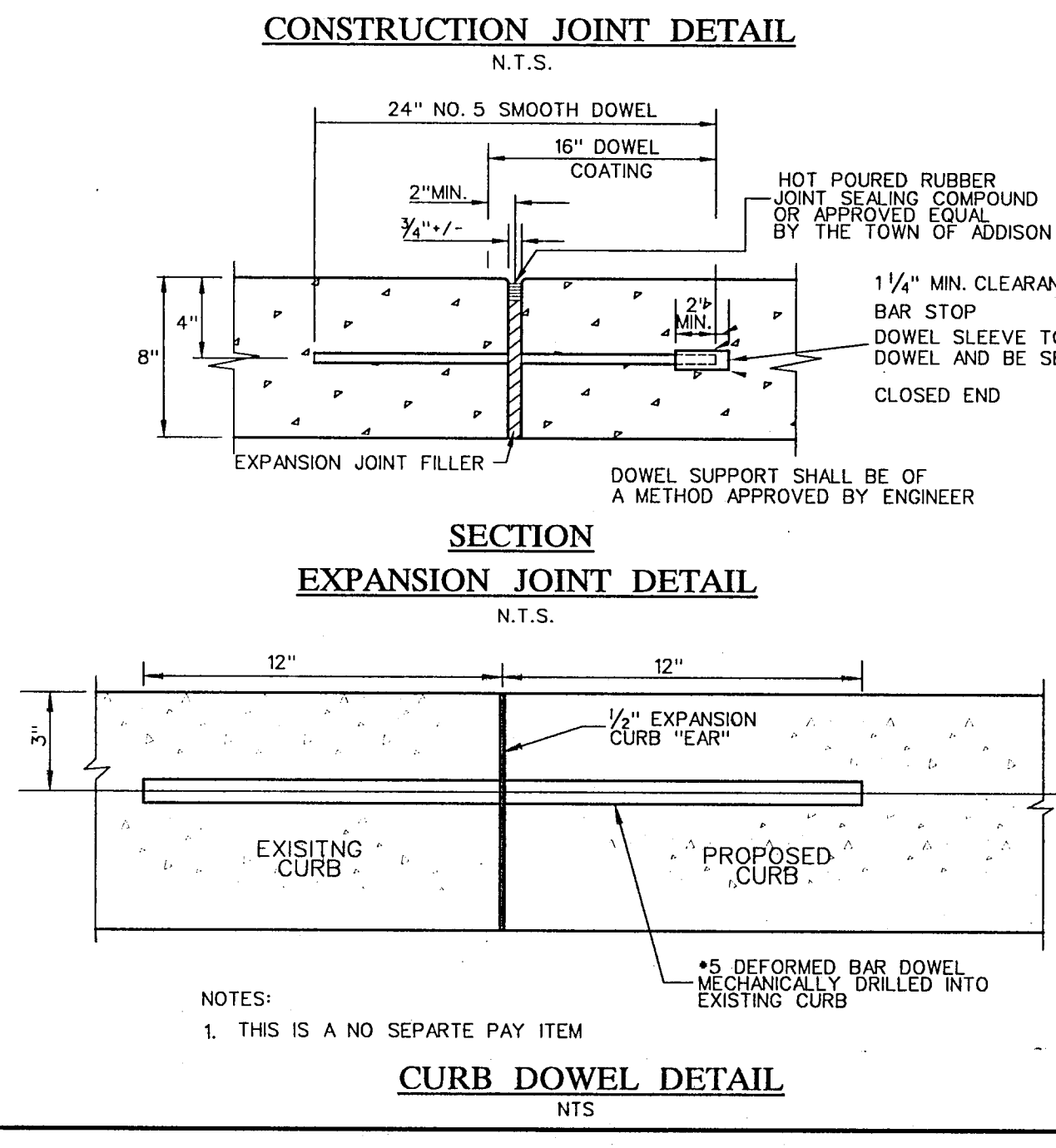
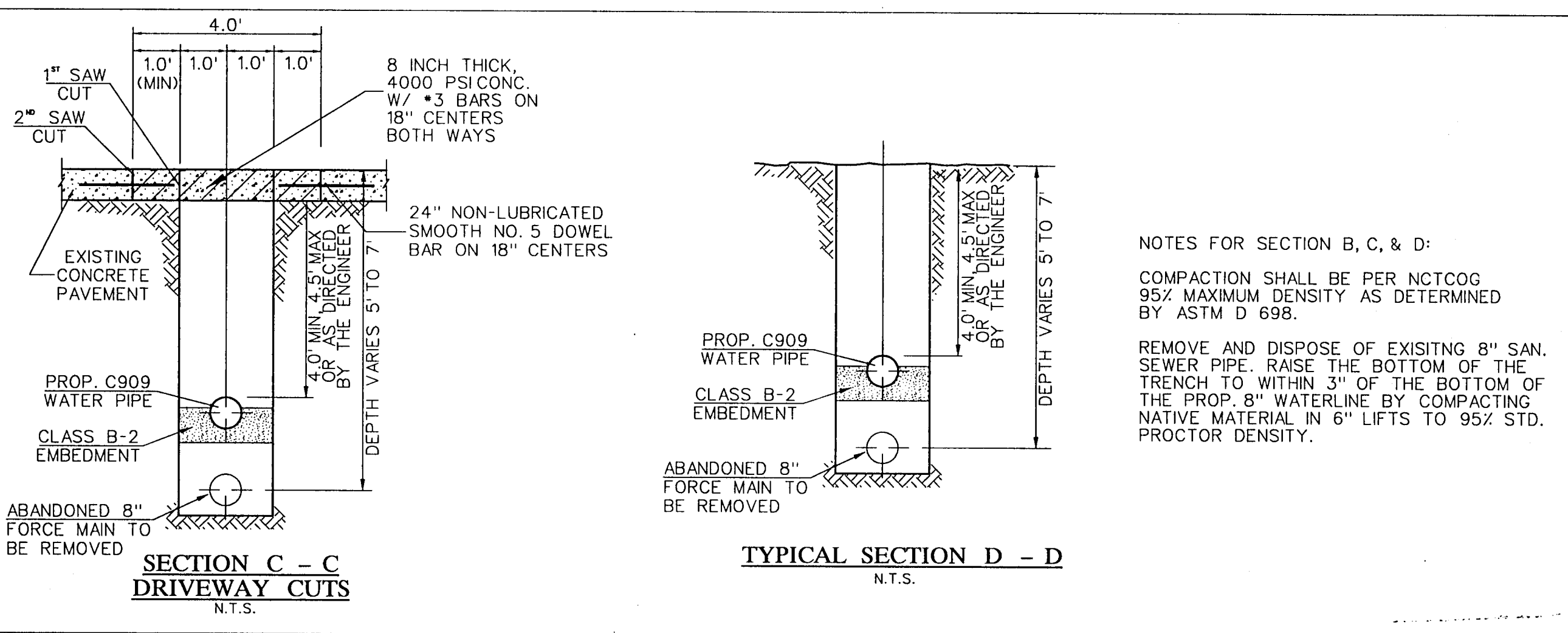
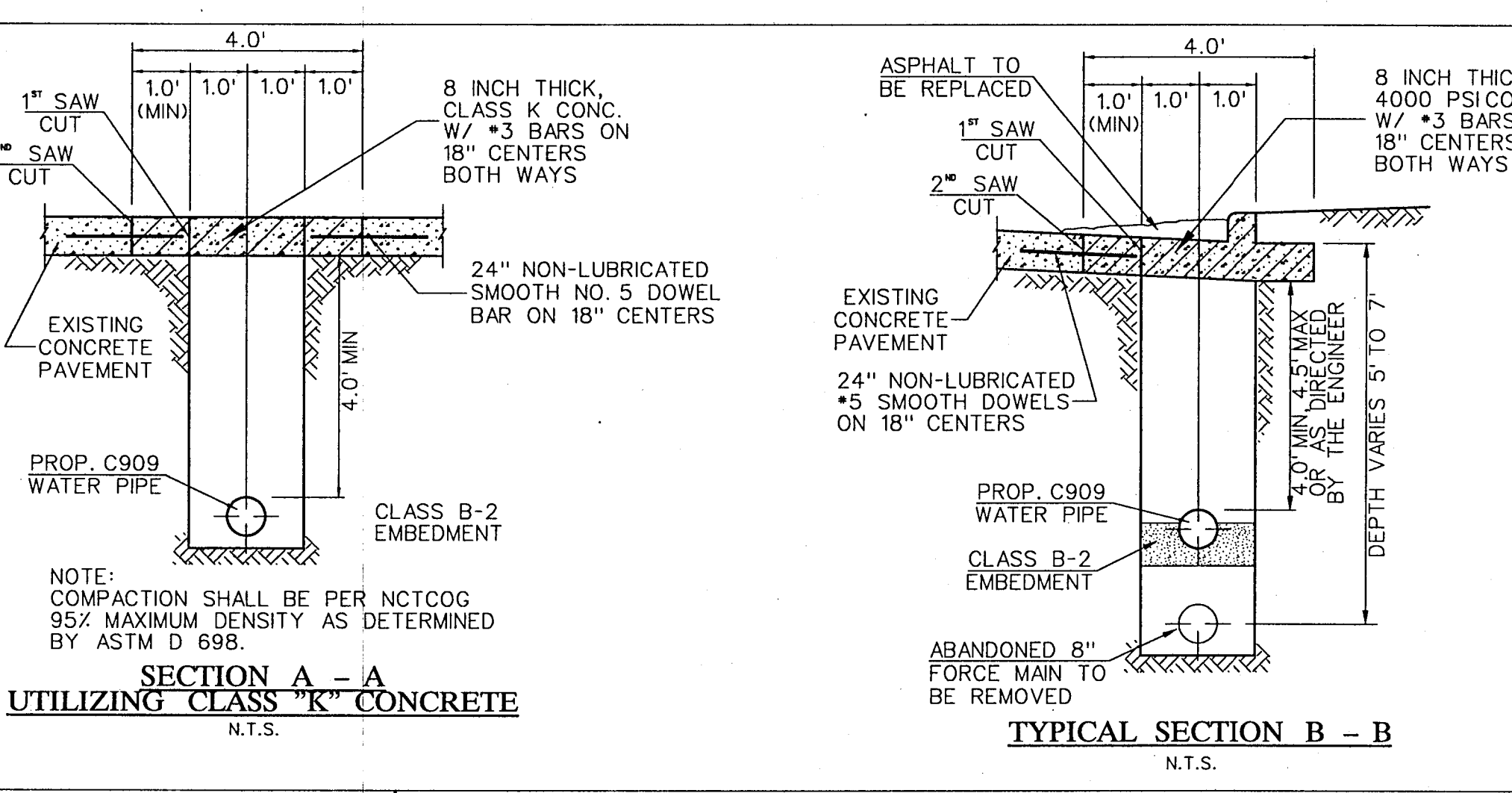
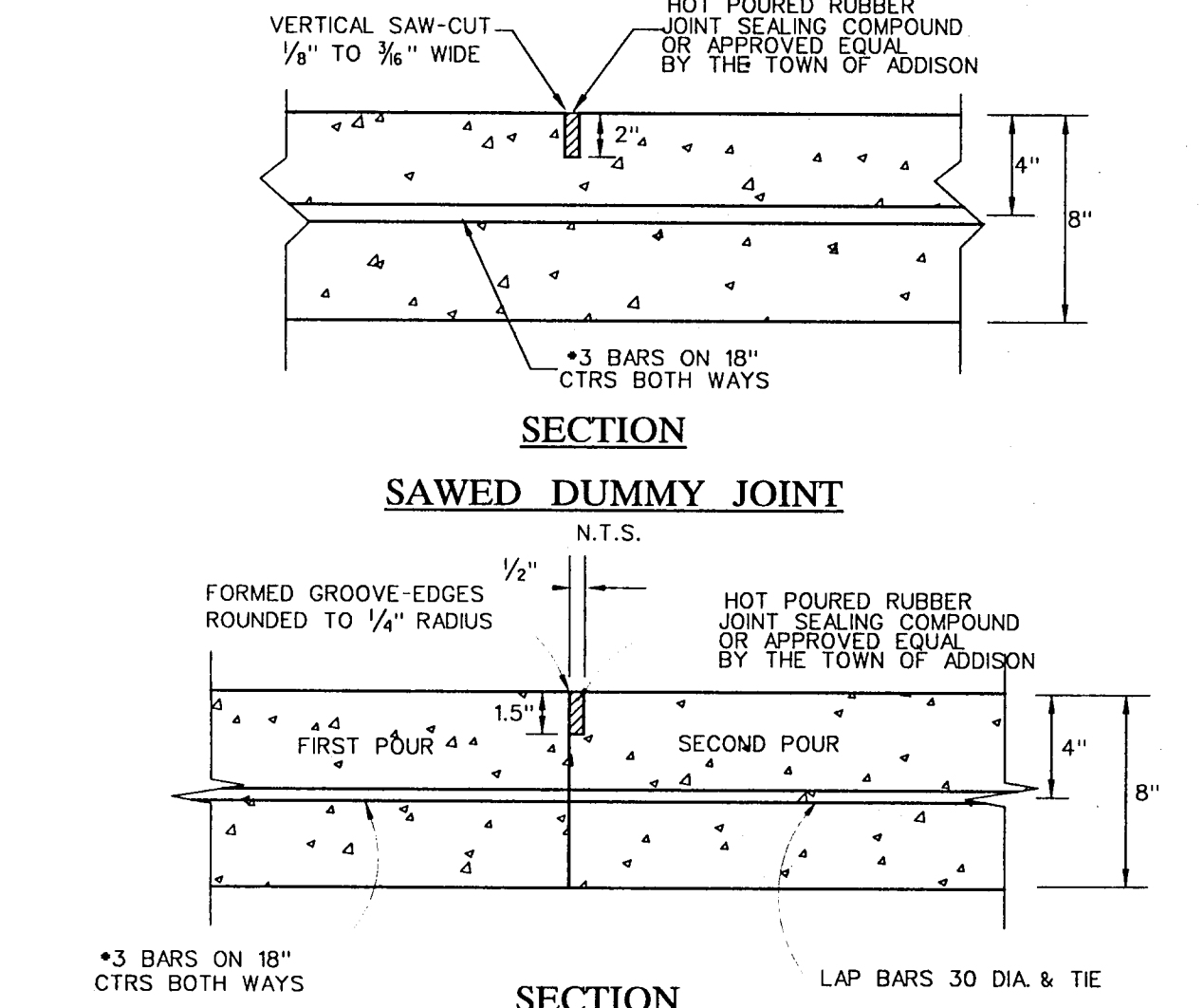
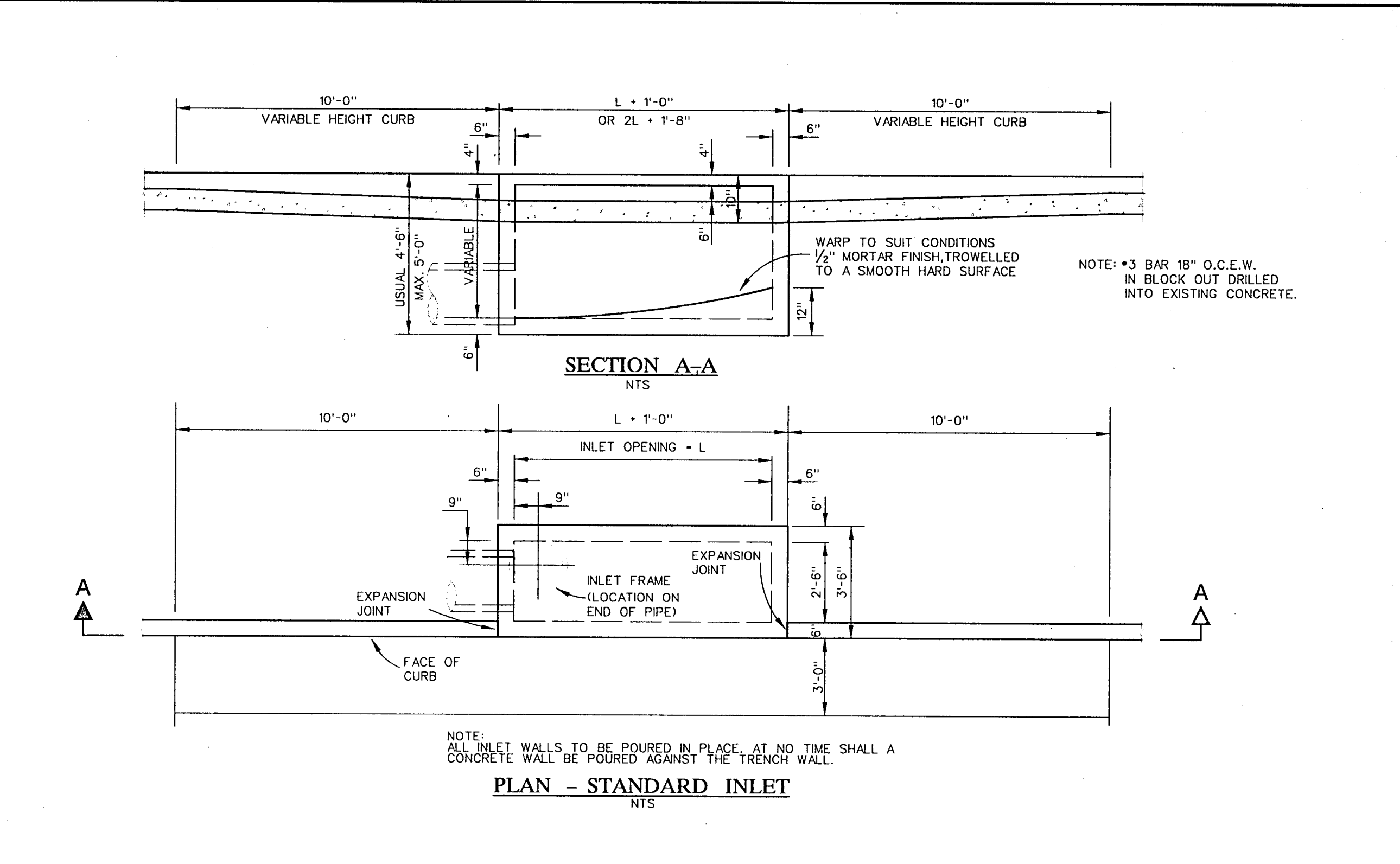
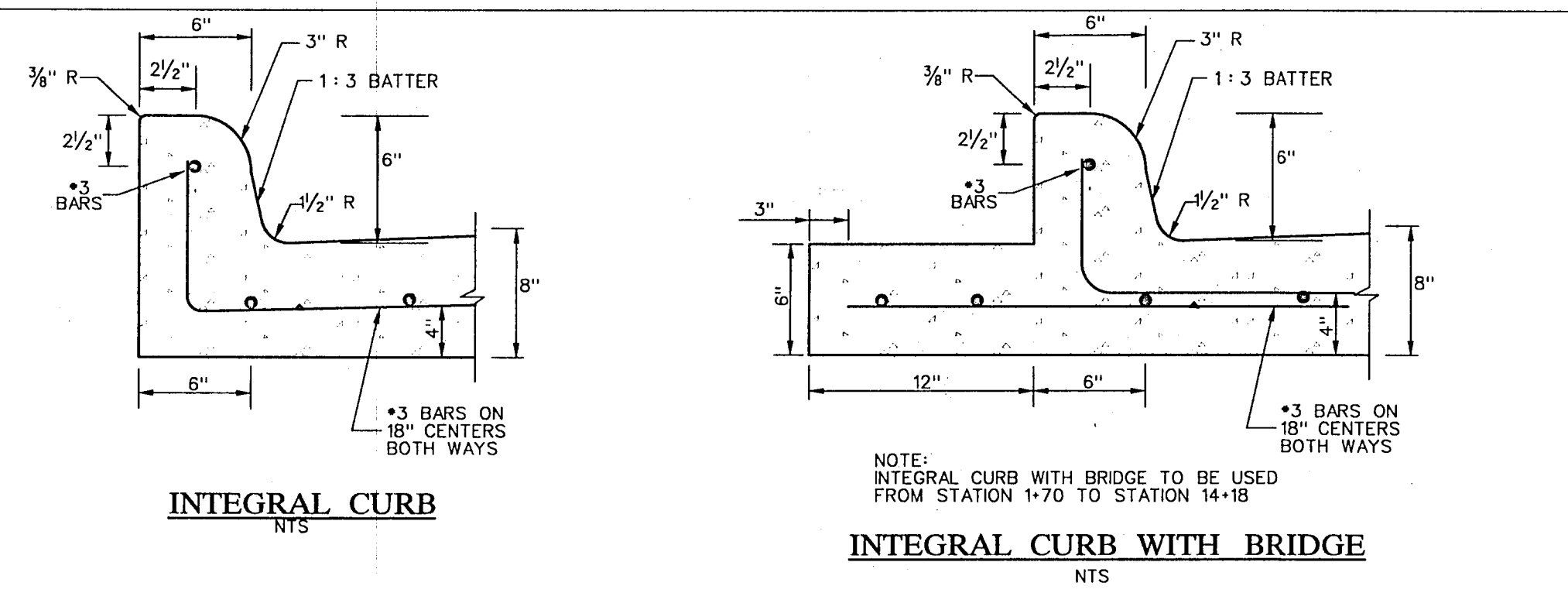
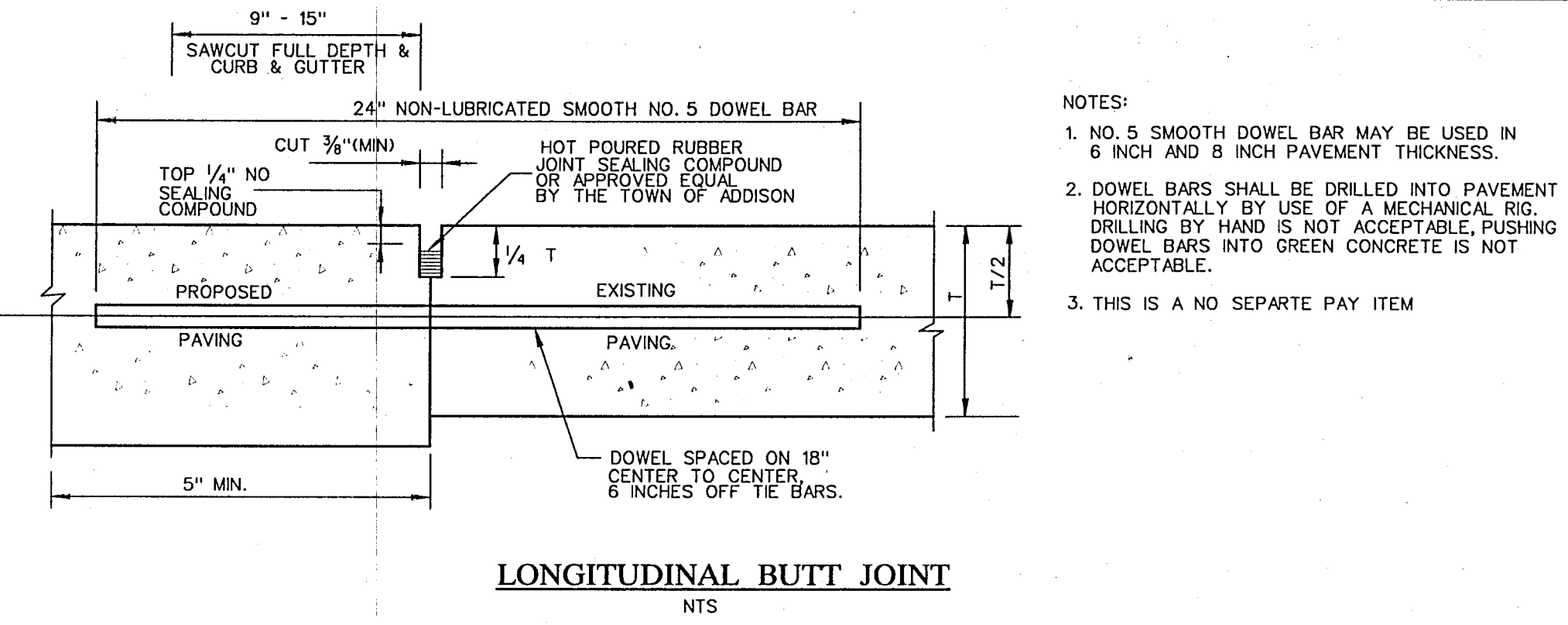
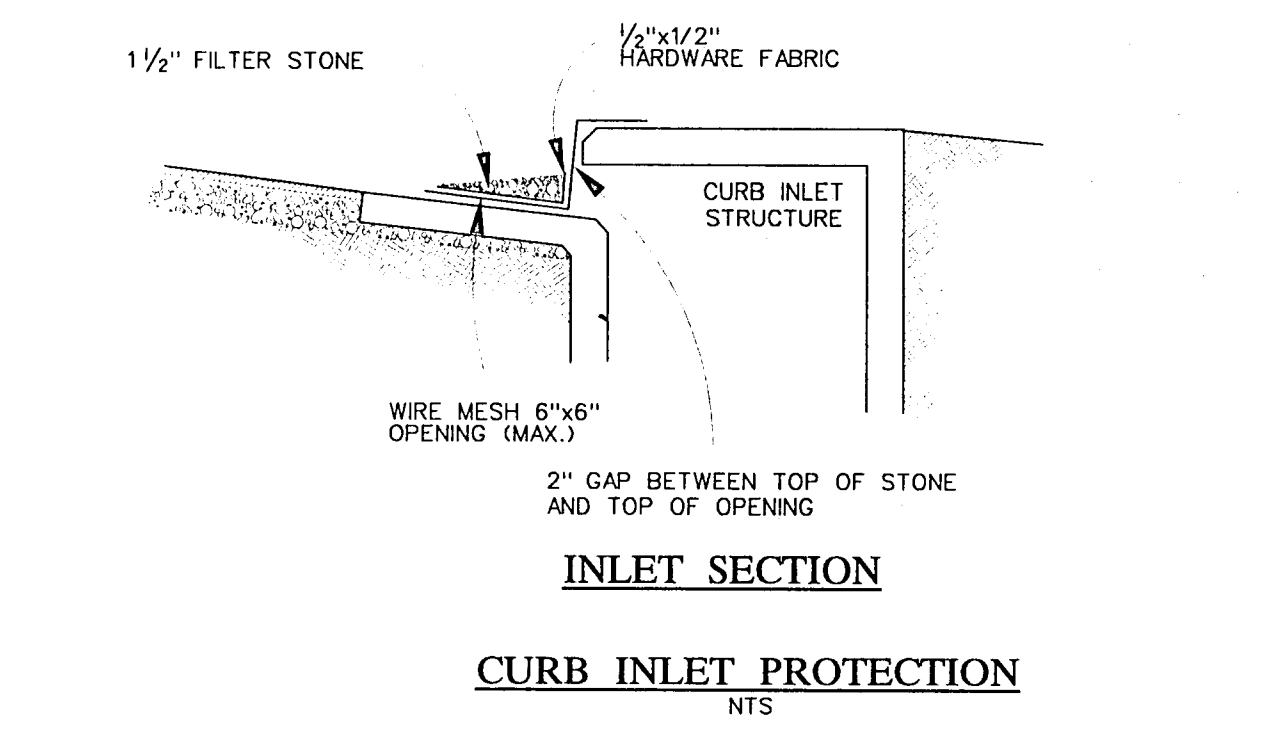
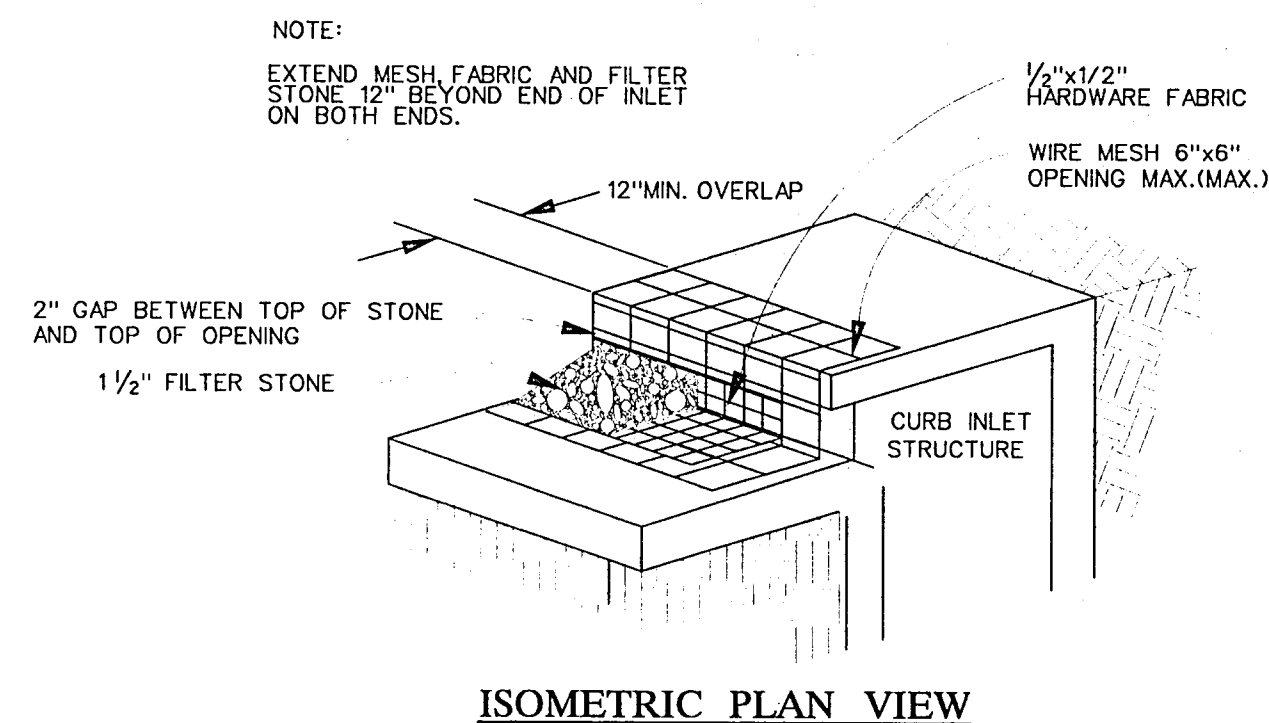
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DATE: 8/09/2002

STATE OF TEXAS
REGISTERED PROFESSIONAL ENGINEER
68109
Lindbergh

REVISION NO.	DESCRIPTION	BY	DATE
TOWN OF ADDISON, TEXAS ENGINEERING DEPARTMENT			
LINDBERGH WATER MAIN REPLACEMENT			
GENERAL NOTES & MISCELLANEOUS DETAILS			
GUTIERREZ, SMOUSE, WILMUT & ASSOC., INC. CIVIL / ENVIRONMENTAL ENGINEERS 1117 SHADY TRAIL • DALLAS, TEXAS • 75229			
DESIGN: GSW	SCALE: NOTED		 2 OF 6
DRAWN: GSW	SHEET:		
APPROVED: QGS	DATE: DEC. 2001		

Project: Town of Addison "Lindbergh Dr. Waterline Replacement"



BORING B-1

DEPTH, FT.	SYMBOL	SAMPLES	STRATUM DESCRIPTION
0-5			FILL, dark brown sandy clay
5-10			CLAY, tan
10-15			CLAY, gray
15-20			BOTTOM OF BORING

BORING B-2

DEPTH, FT.	SYMBOL	SAMPLES	STRATUM DESCRIPTION
0-5			CLAY, tan
5-10			CLAY, gray
10-20			BOTTOM OF BORING

BORING B-3

DEPTH, FT.	SYMBOL	SAMPLES	STRATUM DESCRIPTION
0-5			CLAY, tan
5-10			CLAY, gray
10-20			BOTTOM OF BORING

NOTE:
SEE PLAN SHEETS FOR BORING LOCATIONS.
BORING LOGS ALSO INCLUDED IN SPECIFICATION BOOKLET.
SOILS REPORT PREPARED BY RONE ENGINEERS ON DEC. 6, 2001. RONE JOB NO.: 01-5798

RECORD DRAWING
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DATE: 8/09/2002

STATE OF TEXAS
QUINN C. SPANN, JR.
REGISTERED PROFESSIONAL ENGINEER
68109
8-9-02

REVISION NO.	DESCRIPTION	BY	DATE
TOWN OF ADDISON, TEXAS ENGINEERING DEPARTMENT			
LINDBERGH WATER MAIN REPLACEMENT			
MISCELLANEOUS DETAILS			
GUTIERREZ, SMOUSE, WILMUT & ASSOC., INC. CIVIL / ENVIRONMENTAL ENGINEERS 1117 SHADY TRAIL • DALLAS, TEXAS • 75229			
DESIGN: GSW	SCALE: NOTED		SHEET 3 OF 6
DRAWN: GSW			
APPROVED: QGS			
DATE: DEC. 2001			

Project: Town of Addison "Lindbergh Dr. Waterline Replacement"

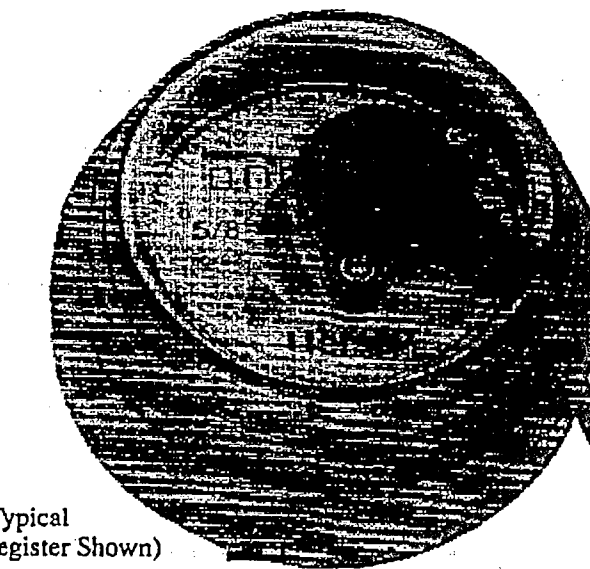
Features

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.



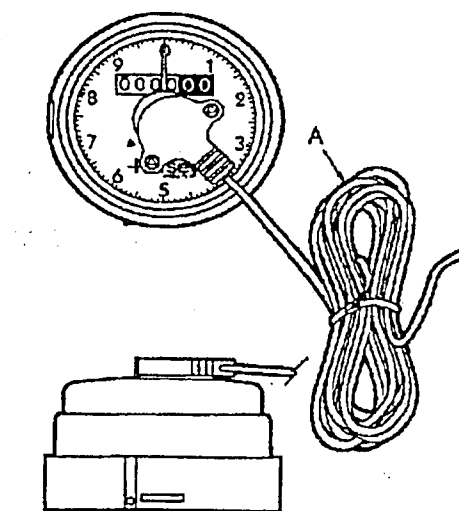
(Typical Register Shown)

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 -33F to 130F

Dimensions

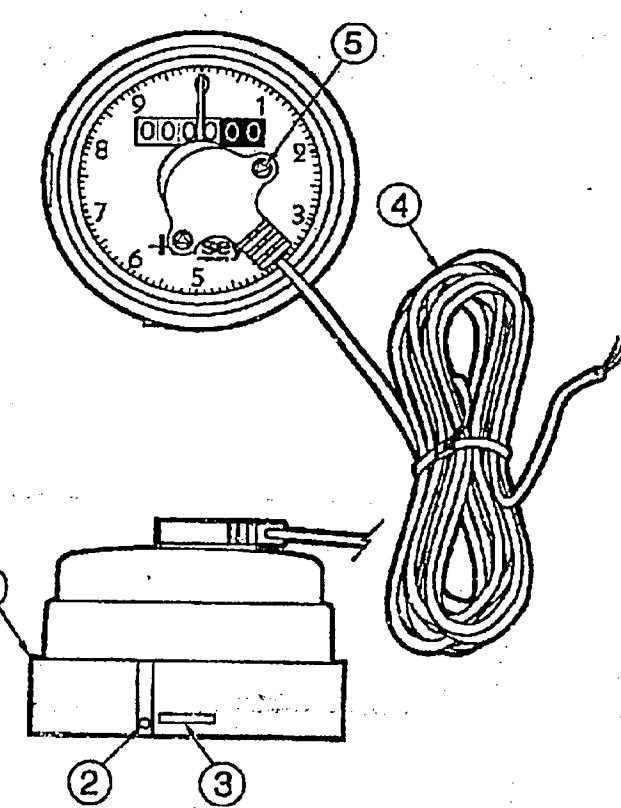
A	Dimension
	1' Length, 15' Length, 30' Length, 75' Length



8.1

Model ER-1 Parts

Electronic Encoder Register

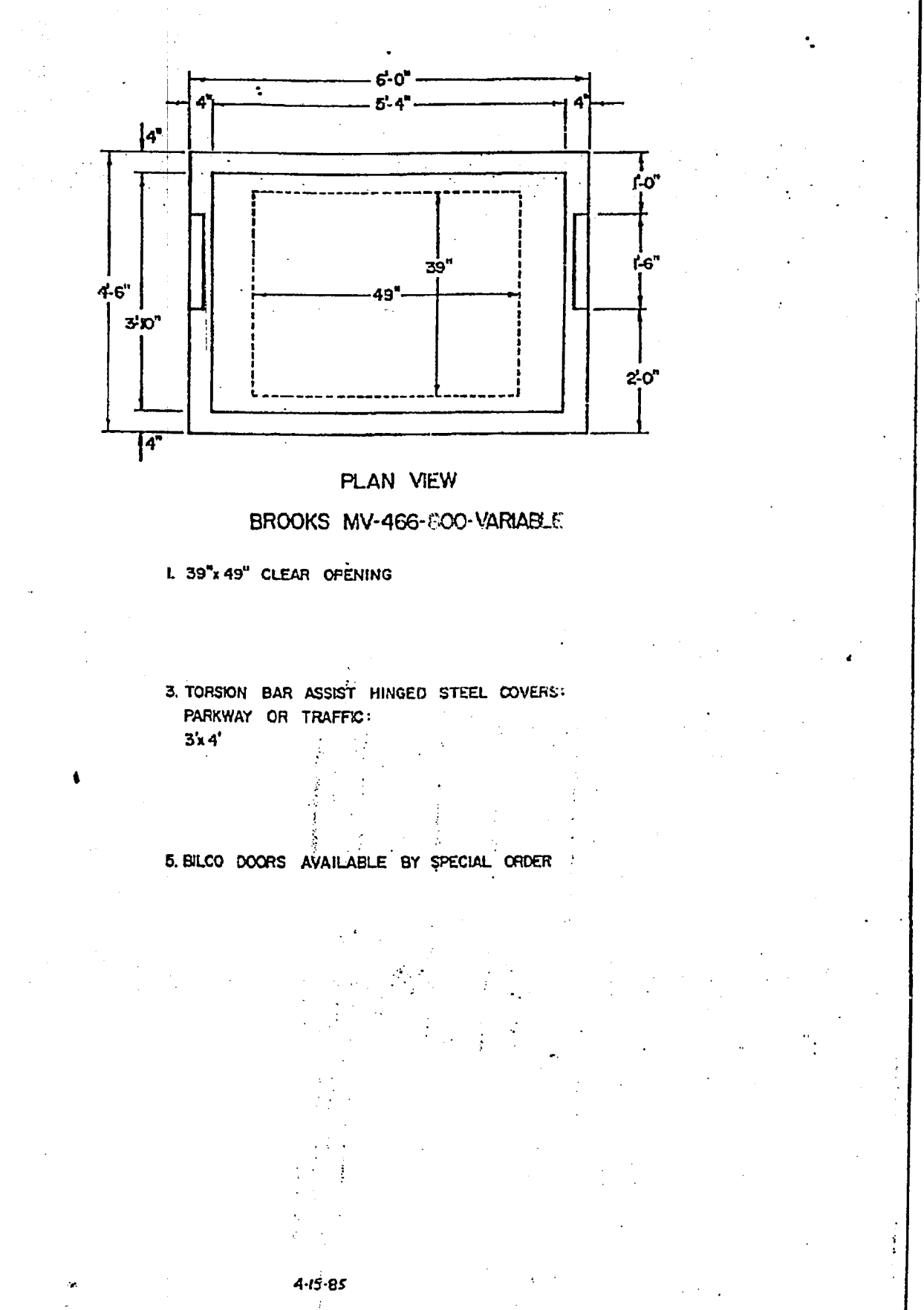
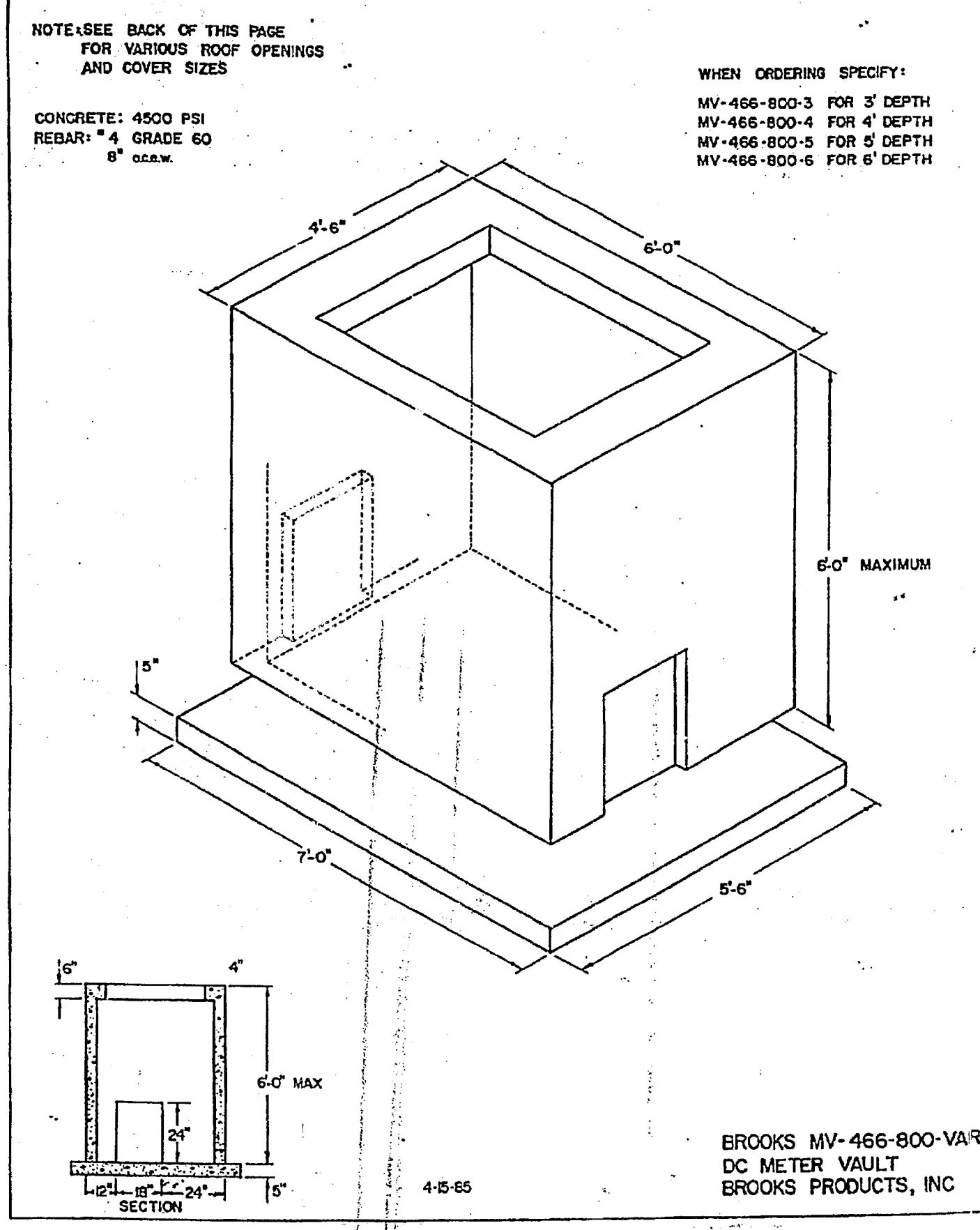


Ref. No.	Description	Part No.
1	Register Housing Base	C5805
2	Register Locking Pin (Plastic)	A12658
3	Register Housing Insert	C5582
4	ER-1 Non-encapsulated Module with 1' wire	B7890
	ER-1 Encapsulated Module with 15' wire	B81049
	ER-1 Encapsulated Module with 30' wire	B81041
	ER-1 Encapsulated Module with 75' 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



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.

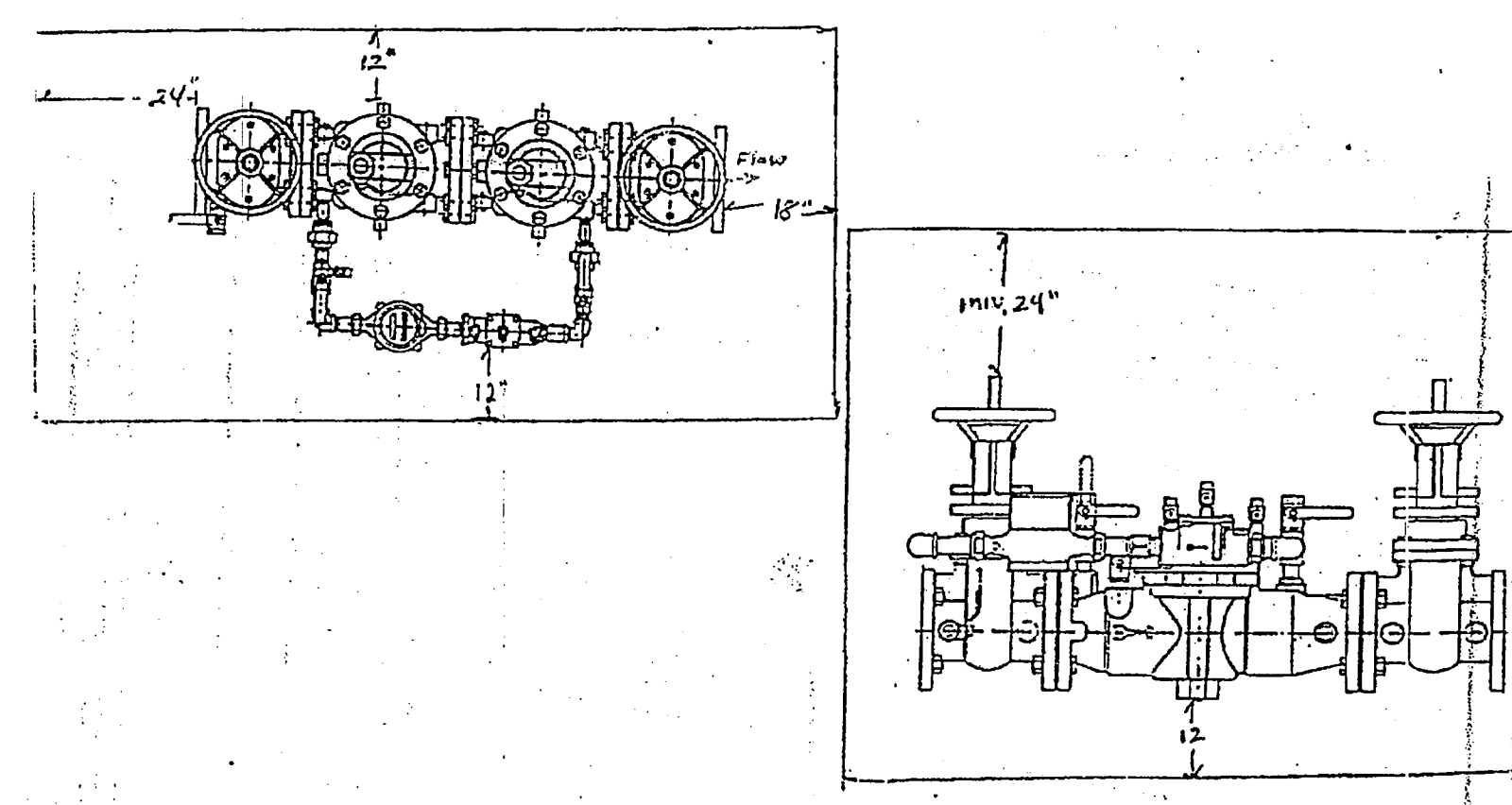


Figure FL-1

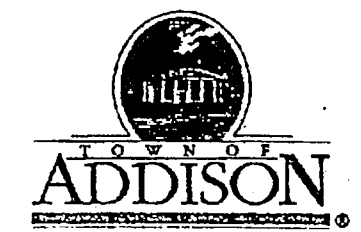


PUBLIC WORKS DEPARTMENT
 Post Office Box 9010 Addison, Texas 75001-9010 (972) 450-2871
 16801 Westgrove

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.



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 PitPak for connecting to touchless AMR system.

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

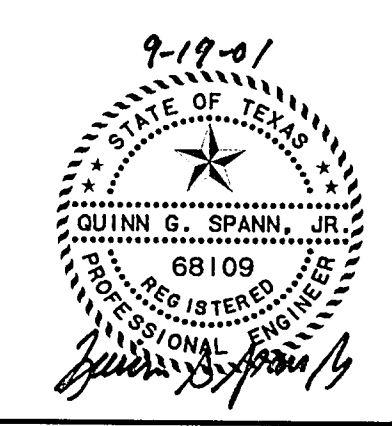
The contractor shall be responsible for having the Assembly tested by a "certified" Fire-Line Tester upon installation of the system, and prior to final, continuous connection to the City's water supply. A copy of the report shall be supplied to the Town of Addison Utility Division of the Public Works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

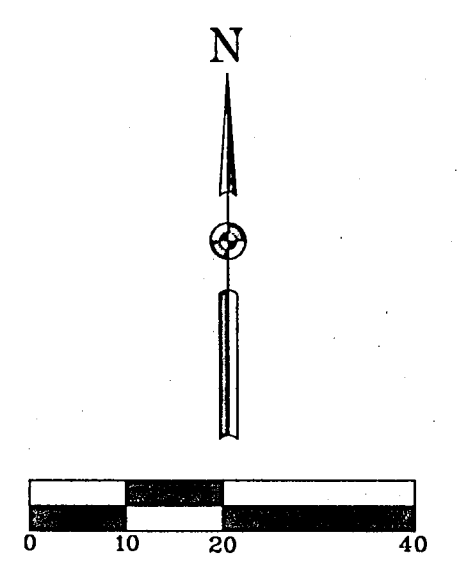
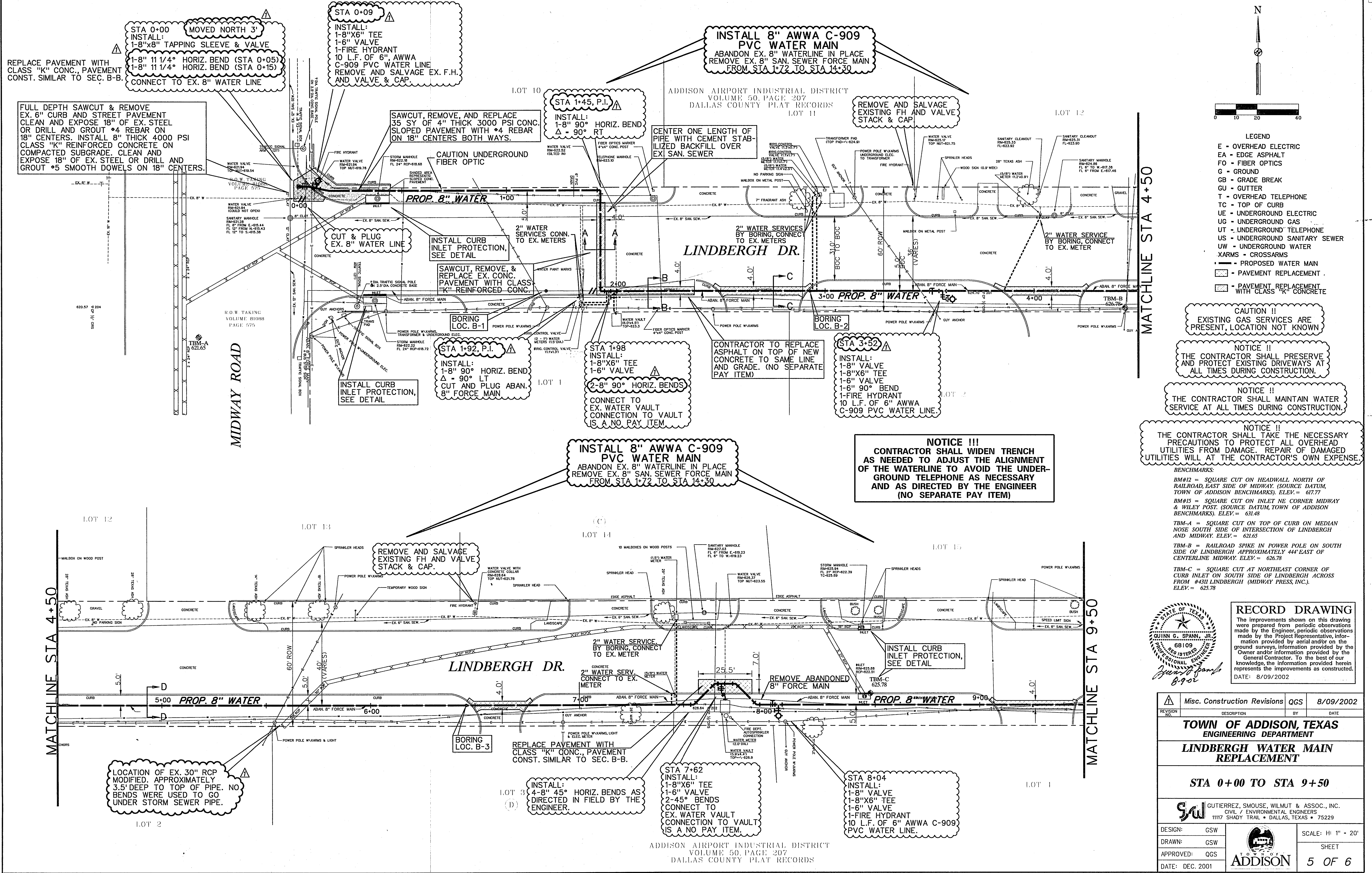
A meter deposit is required for all meters prior to initiation of service. Application and deposit will be made to the Town of Addison Utility Billing Department (972-450-7081) by the party responsible for the water bill.

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

REVISION NO.	DESCRIPTION	BY	DATE
TOWN OF ADDISON, TEXAS ENGINEERING DEPARTMENT			
LINDBERGH WATER MAIN REPLACEMENT			
FIRE VAULT DETAIL			
TOWN OF ADDISON STANDARDS			
DESIGN:		SCALE:	
DRAWN:		SHEET	
APPROVED:			
DATE: SEPT. 2001			4 OF 6





- 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

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

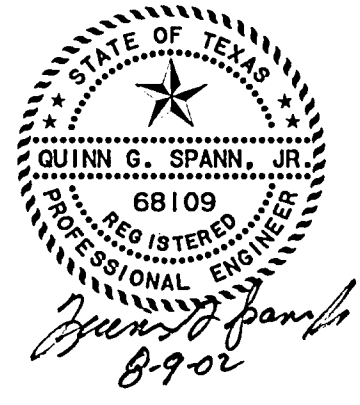
NOTICE !!
THE CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION.

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

NOTICE !!!
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)

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 #4311 LINDBERGH (MIDWAY PRESS, INC.). ELEV. = 625.78



RECORD DRAWING

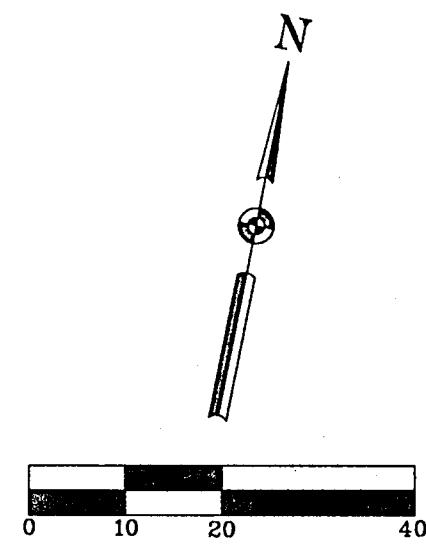
The improvements shown on this drawing were prepared from periodic observations made by the Engineer, periodic observations made by the Project Representative, information provided by aerial and/or on the ground surveys, information provided by the Owner and/or information provided by the General Contractor. To the best of our knowledge, the information provided herein represents the improvements as constructed.

DATE: 8/09/2002

REVISION NO.	Misc. Construction Revisions	QGS	8/09/2002
	DESCRIPTION	BY	DATE
TOWN OF ADDISON, TEXAS ENGINEERING DEPARTMENT			
LINDBERGH WATER MAIN REPLACEMENT			
STA 0+00 TO STA 9+50			
		GUTIERREZ, SMOUSE, WILMUT & ASSOC., INC. CIVIL / ENVIRONMENTAL ENGINEERS 1117 SHADY TRAIL • DALLAS, TEXAS • 75229	
DESIGN:	GSW		SCALE: H: 1" = 20'
DRAWN:	GSW		SHEET
APPROVED:	QGS		5 OF 6
DATE:	DEC. 2001		

Project: Town of Addison, "Lindbergh Dr. Waterline Replacement"

- LEGEND**
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 - US - UNDERGROUND SAN. SEWER
 - UW - UNDERGROUND WATER
 - XARMS - CROSSARMS
 - PROPOSED WATER MAIN
 - ▨ - PAVEMENT REPLACEMENT
 - ▩ - PAVEMENT REPLACEMENT WITH CLASS "K" CONCRETE



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 DRIFLINE

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 SLEEVE AND VALVE.

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

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

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

CONTRACTOR TO LOCATE FIBER OPTIC PRIOR TO SERVICE BEING BORED.

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

CUT & PLUG ABANDONED 8" FORCE MAIN

- BENCHMARKS:**
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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'

CURVE #2 DATA
 PC STA 12+51.5
 PT STA 14+29.6
 R = 309.0'
 Δ = 35.03°
 L = 178.1'
 T = 91.6'

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

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

REMOVE AND SALVAGE EXISTING FH AND VALVE STACK & CAP.

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

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

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.

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

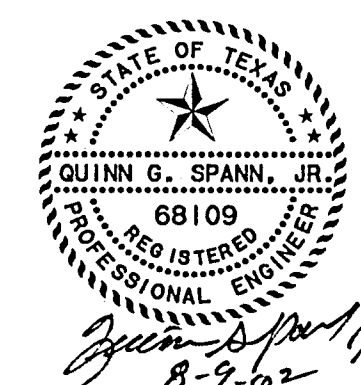
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RECORD DRAWING
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 DATE: 8/09/2002

REVISION NO.	DESCRIPTION	BY	DATE
TOWN OF ADDISON, TEXAS ENGINEERING DEPARTMENT			
LINDBERGH WATER MAIN REPLACEMENT			
STA 9+50 TO STA 15+22			
GUTIERREZ, SMOUSE, WILMUT & ASSOC., INC. CIVIL / ENVIRONMENTAL ENGINEERS 1117 SHADY TRAIL • DALLAS, TEXAS • 75229			
DESIGN: GSW			SCALE: H: 1" = 20'
DRAWN: GSW			SHEET
APPROVED: QGS			6 OF 6
DATE: DEC. 2001			

Project: Town of Addison, Lindbergh Dr. Waterline Replacement