IN GENERAL, ALL FIRE HYDRANTS SHALL CONFORM TO AWWA STANDARD SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE . C-502-73. EX-CEPT FOR CHANGES OR ADDITIONS OUTLINED IN THE TOWN OF ADDISON STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER IMPROVEMENTS. FIRE HYDRANTS SHALL HAVE A 5-1/4" MINIMUM VALVE OPENING AND WITH A BARREL APPROXIMATELY 7-INCH INSIDE DIAMETER. ALL HYDRANTS SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE, ALL HYDRANTS SHALL BE MUELLER CENTURION OR APPROVED EQUAL.

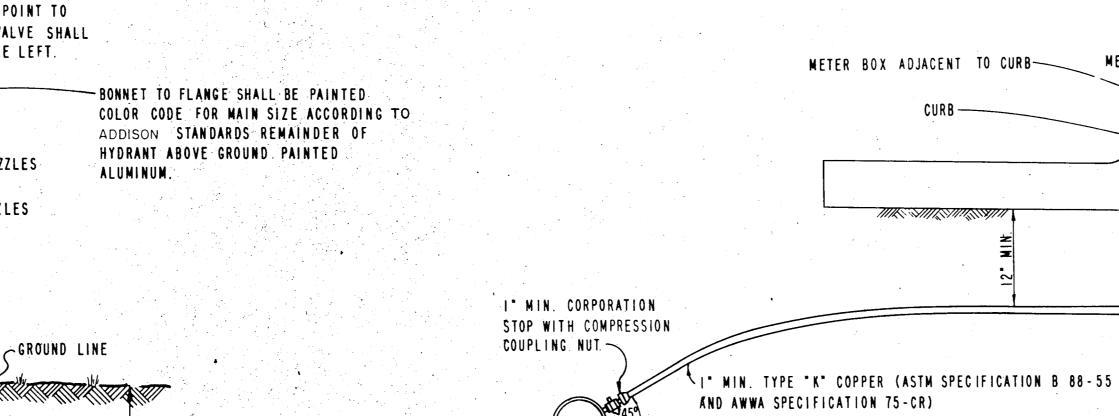
MIN. 7 CUBIC FEET OF

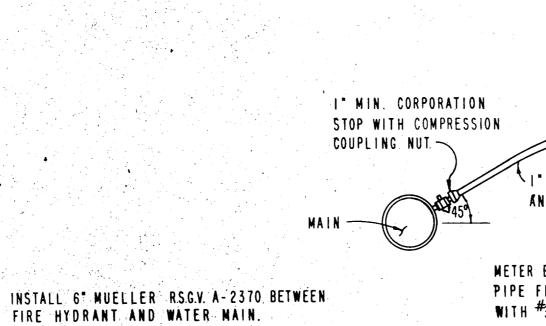
WASHED GRAVEL FILL

CLASS "B" CONC .-

PRECAST CONC. SLAB

THRUST BLOCK, MUST NOT BLOCK WEEP





METER BOX ADJACENT TO CURB-ANGLE STOP LOCATE ANGLE STOP AS CLOSE TO EDGE OF METER BOX AS POSSIBLE * ON A 2" COMPOUND METER SET ANGLE STOP 16" DEEP

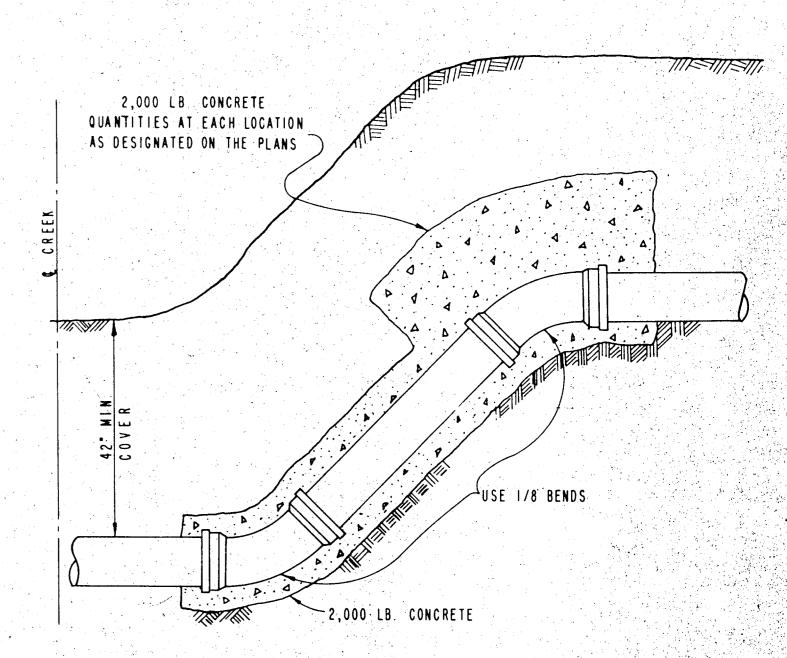
- GROUND LINE

AND AWWA SPECIFICATION 75-CR) FOR 1" OR SMALLER METER

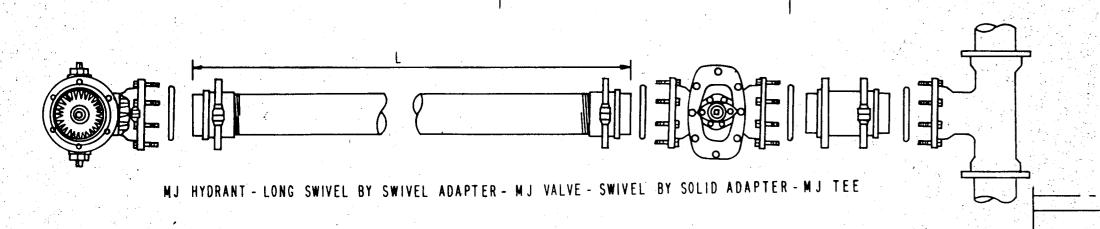
METER BOX SHALL BE CORRUGATED METAL, 18" DIAMETER, 14" DEEP, SLOTTED FOR SERVICE PIPE FITTED WITH CAST IRON TOP AND LID. LID SHALL BE C.I. BASS & HAYS DOMESTIC MFG.LID WITH #3P HAIRPIN LOCK. WATER METER SHALL BE PLACED IN CENTER OF LOT WITH SANITARY SEWER HOUSE CONNECTION LOCATED TO FEET DOWN STREAM. ALL TAPS SHALL BE MADE AT 45° ANGLE TO & OF PIPE.

TYPICAL SERVICE CONNECTION WITH METER BOX

			· · · · · · · · · · · · · · · · · · ·			_
MUELLER TYPE K COPPER SERVICE PIPE SOFT ANNEALED	DOUBLE STRAP BRONZE SERVICE SADDLE WITH C.C. THREADS	MUELLER CORPORATION STOP	-	MUELLER ANGLE STOP	BASS & HAYS SLOTTED METER BOX	· · · · · · · · · · · · · · · · · · ·
I INCH I½ INCH 2 INCH	I½ INCH 2 INCH	H-15008 H-15013 H-15013	•	H-14258 H-14286 H-14286	34 AS 55 A 55 A	
					W/H15428	COUPL



HALF-SECTION TYPICAL CREEK CROSSING



-TAPERED PENTAGON 1¼" POINT TO

OPEN BY TURNING TO THE LEFT.

POINT AT BASE, 1-1/8 POINT TO

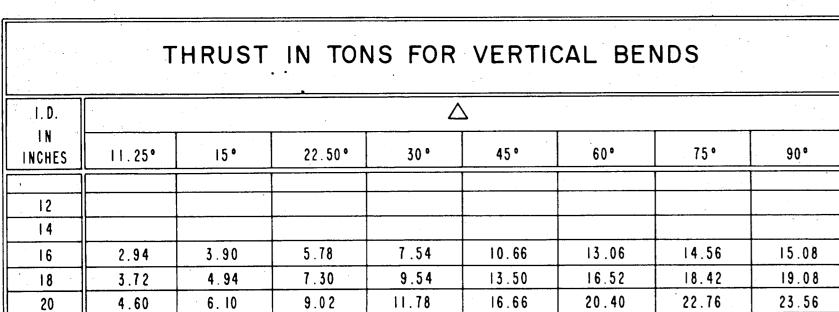
POINT AT TOP OF NUT. VALVE SHALL

2-2 1 NOZZLES

4½ NOZZLES

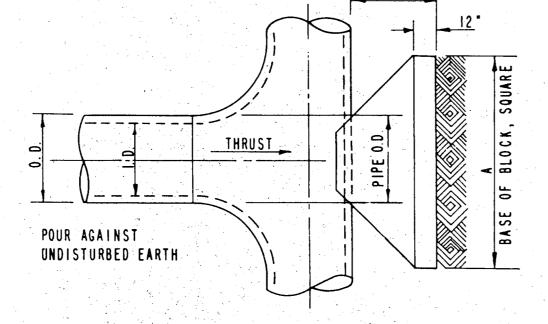
TYPICAL FIRE HYDRANT INSTALLATION

	Τ	HRUST	IN TON	IS FOR	VERTIC	CAL BE	NDS	
I.D.	Δ							
INCHES	II.25°	15 °	22.50°	30 °	45 °	60°	75°	90°
12			<u> </u>			<u> </u>		
14								
16	2.94	3.90	5.78	7.54	10.66	13.06	14.56	15.08
18	3.72	4.94	7.30	9.54	13.50	16.52	18.42	19.08
20	4.60	6.10	9.02	11.78	16.66	20.40	22.76	23.56
24	6.62	8.78	12.98	16.96	23.98	29.38	32.76	33.92
30	10.34	13.72	20.28	26.52	37.50	45.92	51.22	53.02



TE	ES 8	PL	JGS	C - 12"	
I.D.	A FT.	C FT.	THRUST	SQUARE 15.	
12" 14"	3.87	1.57	15.08	THRUST 00 Jakes 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
20"	4.37 4.86 5.82	1.77	19.09 23.56 33.93	POUR AGAINST UNDISTURBED EARTH	POUR AGAINST Undisturbed Earti
30"	7.28	2.95	53.01	ONDISTORDED CANTIL	

PLAN OF PLUG THRUST BLOCK



PLAN OF TEE THRUST BLOCK

A BLUE STIMSONITE FIRE-LITE REFLECTOR (OR APPROVED EQUAL) TO BE PLACED IN THE CENTER OF STREET OPPOSITE FIRE HYDRANTS: THE INSTALLATION OF THIS REFLECTOR SHALL BE AS PRESCRIBED BY THE MANUFACTURER.

TYPICAL FIRE HYDRANT REFLECTOR INSTALLATION (NO SCALE)

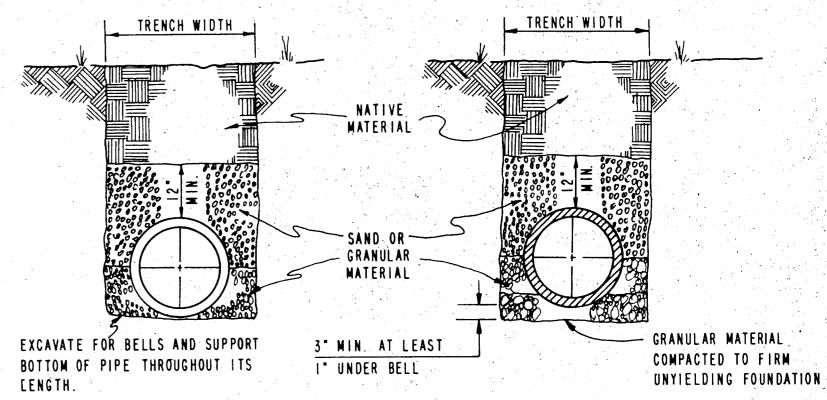
GENERAL NOTES:

ALL CALCULATIONS ARE BASED ON TOTAL INTERNAL PRESSURE OF 150 P.S.I.

ALLOWABLE SOIL BEARING PRESSURES MUST BE AT LEAST ONE .TON PER SQUARE FOOT FOR THE THRUST BLOCKS SHOWN, IN SOILS OF LESSER CAPACITY, INCREASE SIZE AND BEARING AREA PROPORTIONATELY. VOLUMES OF VERTICAL BEND THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED. AND THE CORRESPONDING WEIGHT OF THE CONCRETE (AT 4,000#/C.Y.) EQUALS THE VERTICAL COMPONENT OF THRUST ON THE VERTICAL BEND. ALL BEARING SURFACES OF THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED EARTH.

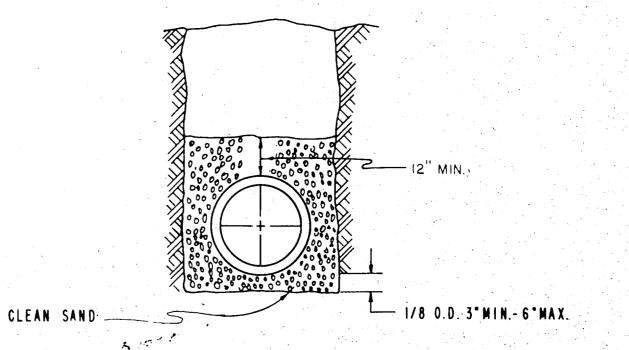
CONCRETE FOR BLOCKING SHALL BE 2,000 CONCRETE

DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDI-TIONS WHERE AND AS DIRECTED BY THE ENGINEER BUT SHALL NOT BE LESS THAN THE DIMENSIONS SHOWN HERE



TYPICAL BACKFILL (C.I. OR D. I. PIPE) (C.I.OR D.I. PIPE) WATER MAIN

RECORD DRWG.



CLASS 4 EMBEDMENT P.V.C. WATER PIPE



	TOWN OF ADDISON, TEXAS	
0.	REVISION	DAT
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DEPARTMENT OF ENGINEERING

STANDARD CONSTRUCTION DETAILS WATER

FIRE HYDRANT - SERVICE CONNECTION

APPROVED -H. WAYNE GINN, P.E. DATE: MARCH, 1984

SHEET SD-16 Sheet II of 12

TYPICAL PLUG & TEE THRUST BLOCKS