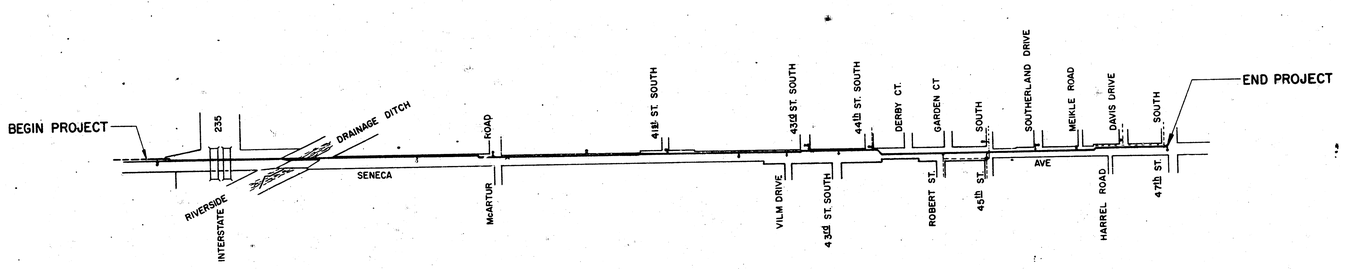
CITY OF WICHITA

WATER DEPARTMENT

DESIGN & PLANNING DIVISION

PLAN AND PROFILE OF

WATER MAIN CONSTRUCTION



Scale 1"=400'

LEGEND

PROPOSED 16" WATER MAIN.....

PROPOSED FIRE HYDRANT.....

PROPOSED VALVE (16").....

EXISTING WATER MAIN.....

PROPOSED OUTLET WITH VALVE.....

RECOMMENCED FOR APPROVAL

Bill H. Otten

Supt of Design & Planning

APPROVED

Foster S. Burke

Operations Chief Engineer

PLAN

PROFILE

NOTE ROOM

NO.

DATE

INTERSTATE 235

SENECA

RIVERSIDE AVE

McARTLE ROAD

DRAINAGE DITCH

SCALE
HORZ 1"=50
VERT. 1"=5'

NOTES
1 RCCP PIPE IS ABBREVIATION FOR REINFORCED CONCRETE STEEL CYLINDER PRESTRESSED PIPE.
2 ALL 16" BUTTERFLY VALVES & FIRE HYDRANTS TO BE FURNISHED BY WATER DEPT.

STA 0+00 TO 0+40 WATER DEPT. WILL MAKE SHUT OFF, REMOVE CAP & BLOWOFF ASSEMBLY AND INSTALL 16"x 6" MJ TEE OF CI CONTRACTOR TO MAKE EXCAVATION AND BACKFILL

CONTRACTOR TO FURNISH & INSTALL 12"CI MJ BELL X 16" RCCP PIPE BELL REDUCER

16"CI MJ BELL X 16" CI MJ BELL REDUCER

16" CI CL 52 PIPE (ALT I OR ALT II)

STA 1+85.5 22½° BEND

STA 2+00 22½° BEND

PROPOSED 16" WATER MAIN

STA 19+40
6"x6" DISE OUTLET
6" PLG X MJ VALVE
6" VALVE BOX
6" CI CL PIPE 6" 55 PC
MJ FIRE HYDRANT
OR
16"x 6" CI MJ TEE
6" MJ VALVE
6" VALVE BOX
6" CI CL PIPE 6" 55 PC (2)
MJ FIRE HYDRANT

STA 22+45
1" MUELLER THREAD OUTLET (RCCP PIPE ONLY)

AIR RELEASE ASSEMBLY FURNISHED & SET BY WATER

STA 23+86
45° BEND

STA 24+00
45° BEND

STA 24+02
6"x6" DISE OUTLET
6" PLG X MJ VALVE
6" VALVE BOX
6" CI CL PIPE 6" 55 PC
MJ FIRE HYDRANT
OR
16"x 6" CI MJ TEE
6" MJ VALVE
6" VALVE BOX
6" CI CL PIPE 6" 55 PC (2)
MJ FIRE HYDRANT

STA 24+08
16" BUTTERFLY VALVE
FURNISHED BY WATER DEPT
(SEE DETAIL SHEET 4)

STA 7+92
6" PLUG DISE OUTLET
6" PLG x MJ VALVE
6" VALVE BOX
6" CI CL PIPE 6" 55 PC (2)
MJ FIRE HYDRANT
OR
16"x 6" CI MJ TEE
6" MJ VALVE
6" VALVE BOX
6" CI CL PIPE 6" 55 PC (2)
MJ FIRE HYDRANT

THIS SECTION 16" D.I.CI.CL SJ PIPE (ALTERNATE I OR ALTERNATE II) T=54" CI. 22

THIS SECTION 16" DUCTILE CI CL SJ PIPE (ALTERNATE I OR ALTERNATE II)
MIN MECHANICAL PROPERTIES 60-45-10 T=54" CI.22

MECHANICAL TAMPED TRENCH BACKFILL

12" GAS LINE

16" GAS LINE

2" GAS LINE

4" GAS LINE
8" CASING

10" GAS LINE
16" CASING

20" GAS LINE
24" CASING

2" LPG LINE

16" CI PIPE T=54" CI 22

16" CI PIPE T=58" CI.23

16" CI PIPE T=53 CI 24

16" CI PIPE T=58" CI.23

GROUND ELEV. ON ℄ OF PIPE

TOP OF PIPE

GROUND WATER ELEV. 1-9-63

GROUND WATER ELEV. 1-9-65

PROPOSED 16" WATER MAIN

EXISTING 16" C.I.P.

0+00 BEGIN PROJECT

CITY OF WICHITA, KANSAS

WATER DEPARTMENT

Work Order No. W-3962

PLATE 2 - PLAN - PROFILE O.P.S.& R.E. STANDARD
ALBERT A. ULLER CO., NEW YORK

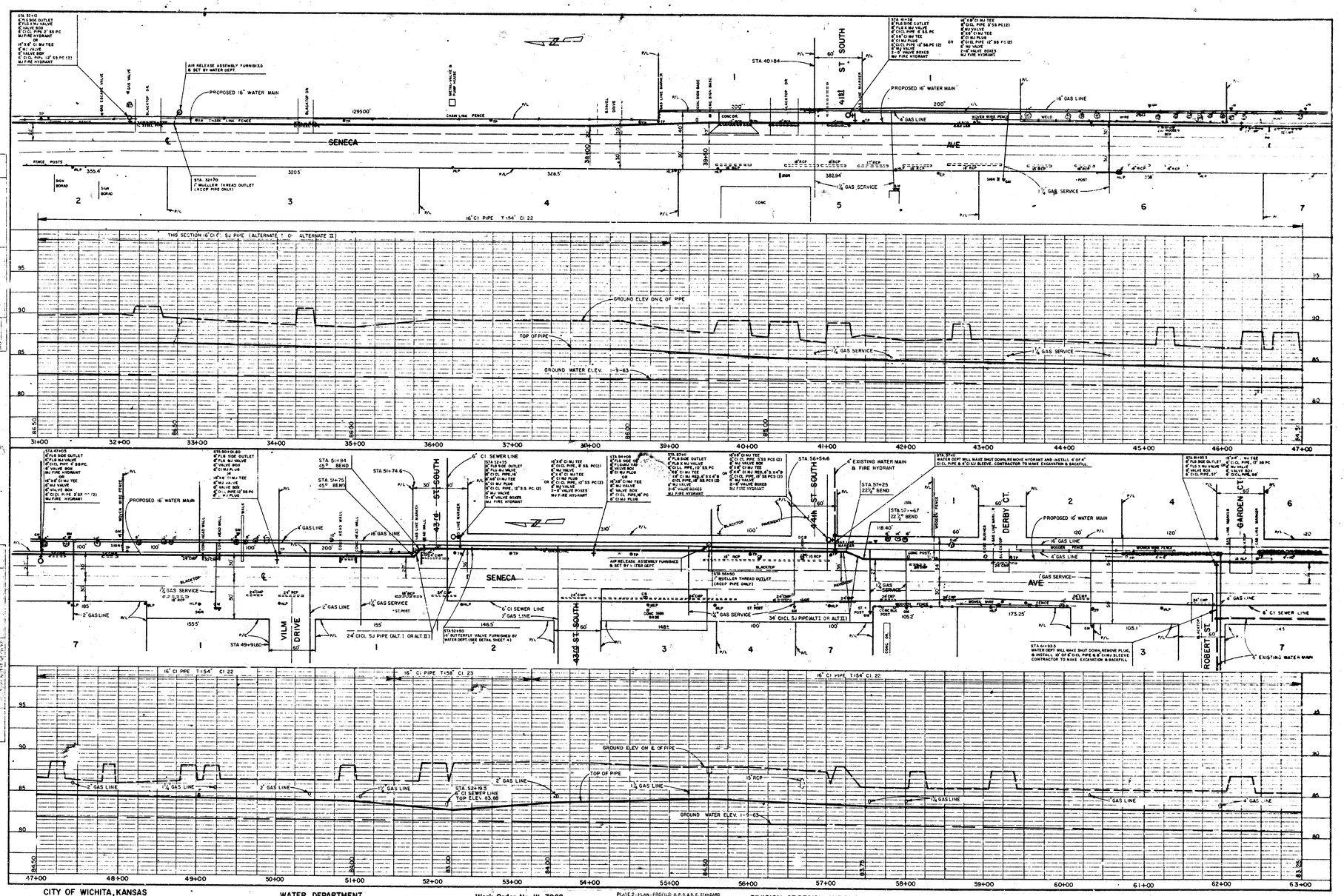
DIVISION OF DESIGN AND PLANNING

1962

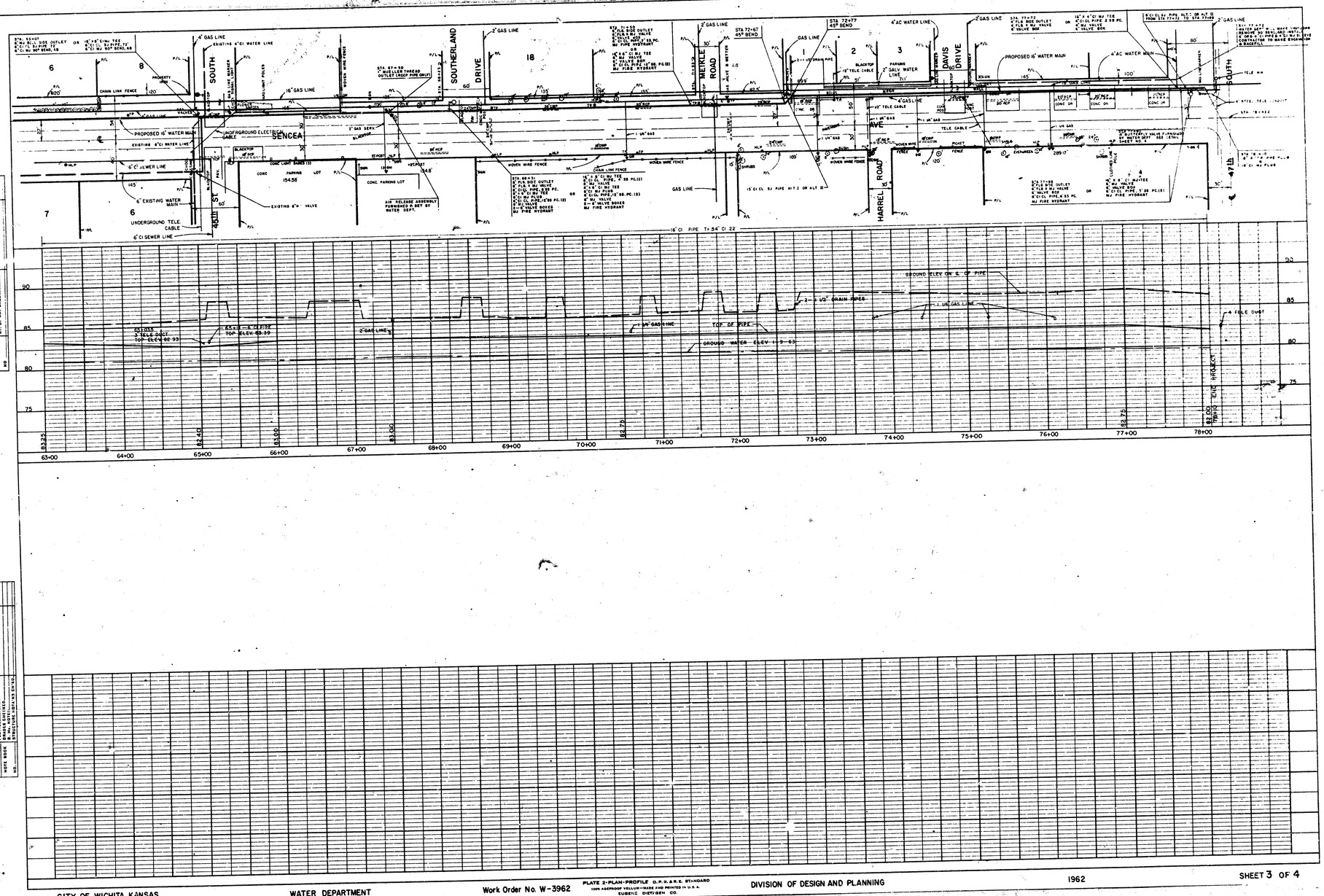
SHEET 1 OF 4

PLAN

PROFILE



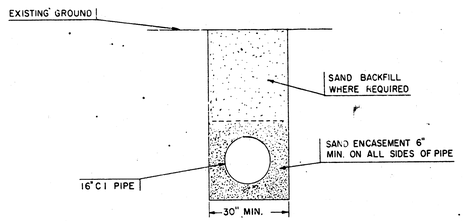
CITY OF WICHITA, KANSAS | WATER DEPARTMENT | Work Order No. W-3962 | PLATE 2 - PLAN - PROFILE O.R.R. & R.E. STANDARD KEUFFEL & ESSER CO., NEW YORK. | DIVISION OF DESIGN AND PLANNING | 1962 | SHEET 2 OF 4



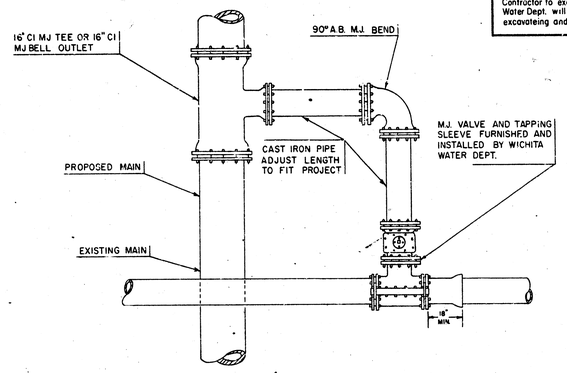
PLAN — SURVEYED ____ DATE ____ DRAWN ____ ERASED CHECKED ____ ALIGNMENT CHECKED ____ NOTE BOOK ____ NO. ____ BY ____ DATE ____

PROFILE — SURVEYED ____ DRAWN ____ ERASED CHECKED ____ STRUCTURE TOPO'S ON PLAN ____ NOTE BOOK ____ NO. ____ BY ____ DATE ____

CITY OF WICHITA, KANSAS — WATER DEPARTMENT — Work Order No. W-3962 — PLATE 2-PLAN-PROFILE O.P.W.A.R.E. STANDARD 100% ASEPROOF VELLUM—MADE AND PRINTED IN U.S.A. KUBIK DIETZGEN CO. — DIVISION OF DESIGN AND PLANNING — 1962 — SHEET 3 OF 4

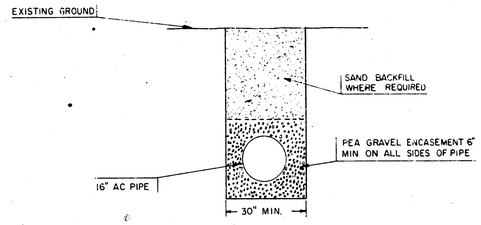


SAND ENCASEMENT FOR C.I. PIPE ONLY

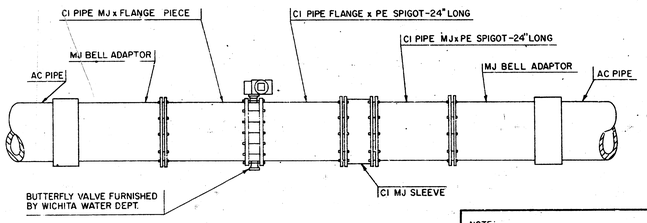


TYPICAL INDIRECT CROSS CONNECTION

Note:
Contractor to excavate and prepare tap hole, Water Dept. will make tap on existing main, excavateing and backfill at no extra cost

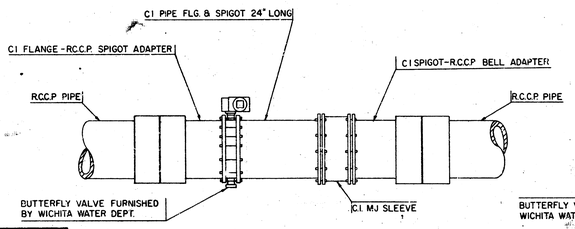


PEA GRAVEL ENCASEMENT FOR AC PIPE ONLY

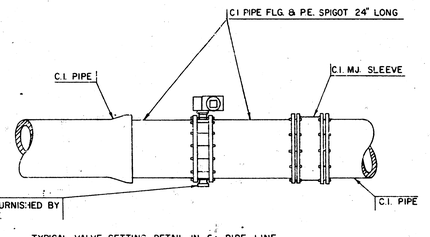


TYPICAL VALVE SETTING DETAIL IN AC PIPE LINE

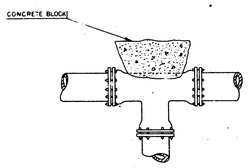
NOTE:
BOLTS & NUTS FOR INSTALLATION OF BUTTERFLY VALVE TO BE FURNISHED BY CONTRACTOR



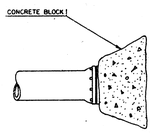
TYPICAL VALVE SETTING DETAIL IN R.C.C.P. PIPE LINE



TYPICAL VALVE SETTING DETAIL IN C.I. PIPE LINE



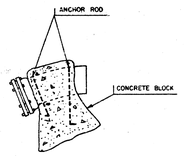
TEE



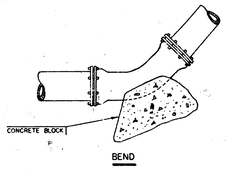
PLUG

PIPE SIZE	THRUST AT FITTINGS IN TONS - AT 150 #/IN² P.					
	PLUG	90°	45°	22½°	11¼°	TEE
6"	2.12	2.968	1.613	.827	.416	2.12
8"	3.76	5.33	2.88	1.470	.740	3.76
12"	8.48	11.99	6.49	3.209	1.66	8.48
16"	15.07	21.32	11.54	5.88	2.96	15.07

TYPICAL THRUST BLOCKS



THRUST BLOCK WITH ANCHOR RODS



BEND

CITY OF WICHITA
WATER DEPARTMENT
DESIGN AND PLANNING DIVISION

Scale NONE	Approved By	Drawn By T.W.F.
Date 12-14-62		Revised

DETAIL SKETCHES

Job. 16" MAIN IN SENECA AVE FROM 35th ST. SOUTH TO 47th ST SOUTH

W.O. Number W-3962