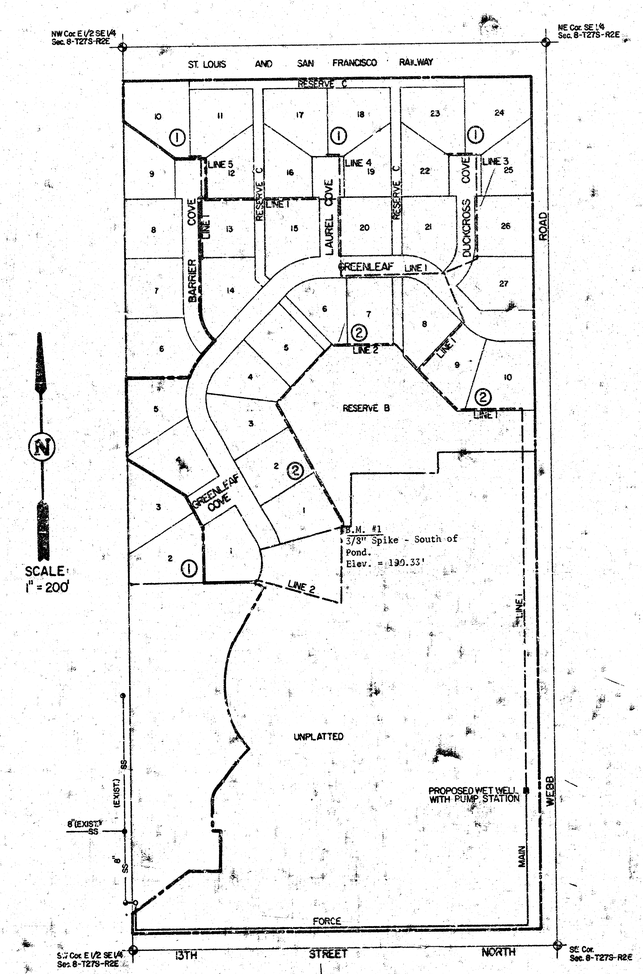
TEMPORARY LIFT STATION AND FORCE MAIN FOR LATERAL 67 WAR INDUSTRIES SEWER

PROJECT NO.
468-76-245-81070-000-000-001

CITY OF WICHITA, KANSAS
R. W. BRUGGEMAN, CITY ENGINEER
MARCH, 1981
FOLIAGE



LEGEND

PROPOSED LINE ——————

EXISTING LINE – – – – –

BENEFIT DISTRICT BOUNDARY ——————

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2-3	FORCE MAIN
4	PUMP STATION DETAILS

NOTE: CONTRACTOR MUST OBTAIN ALL BUILDING AND ELECTRICAL PERMITS FROM SEDGWICK COUNTY.

As Built
J.L.
8-82

Revised-11/16/81 more pump sta. north
Shifted force main south

Van Doren Hazard Stallings
Architects · Engineers · Planners
Topeka · Wichita · Minneapolis · Kansas City

Sheet 1 of 4

FOLIAGE
LAT. 67, WAR IND. SEW. (FORCE MAIN)
468-76-245-8107.000-000-001

UNPLATTED

UNPLATTED

NOTE: ALL TREES AND BUSHES TO TO BE REMOVED BY OTHERS

STA. 0+35.50 - FORCE MAIN
CONST. STD TYPE 'A' MH.

CONST. THRUST BLOCK SEE SHT. 3/4 FOR DETAIL

EXIST. 8" SAN. SEW.

ESM'T.

10'

8" SAN. SEW.

PLACE WARNING SIGNS SEE DETAIL SHT. 3/4

WATER SUPPLY LINE TO HOUSE

Approximate location of existing casing.

Force main shall be encased in conc. 10' both sides of exist. water line per C.O.W. Standards

SCALE:
HORIZ. : 1"=40'
VERT. : 1"=5'

PLACE WARNING SIGN SEE DETAIL SHT. 3/4

35'

SANITARY SEWER ESM'T.

STA. 0+26.

4" 90° ELL. Const thrust block See sheet 3/4

WATER METER VAULT

Push pipe underneath private drive -30LF

R/W

WOODEN RAIL FENCE

WOODEN RAIL FENCE

R/W

13TH STREET

16"

W

A.C.

PIPE

R/W

32 LF - 4" PVC PIPE TO BE PUSHED UNDER TREES
COST OF PUSHING FORCE MAIN PIPE SHALL BE INCLUDED IN UNIT PRICE BID FOR THE PIPE.

Hs Bud F.
J.LL
8-82

STA. 0+00.0 - EXIST. M.H.
CONST. 90° BEND
CONN. PER CITY DETAIL
STA. 0+15.01 FORCE MAIN
CONST. STD. TYPE "A" MH.
TOP M.H. ELEV. = 192.0

15 L.F. OF 8" ABS, PVC OR VCP PIPE @ .04%

Existing Grade

Approx. location of exist. casing.

Water line

10' min. Encase Force Main with conc. per City of Wichita Standards

Existing Grade

S=1.40%

S=0.96%

S=1.21%

RIM E = 190.64
FLOW IN = 190.10
FLOW IN = 190.10
190.75

190.20 189.28 188.36 187.44 186.52 185.60 184.68 183.76 182.84 181.92 181.00

200 195 190 185 180 175 170

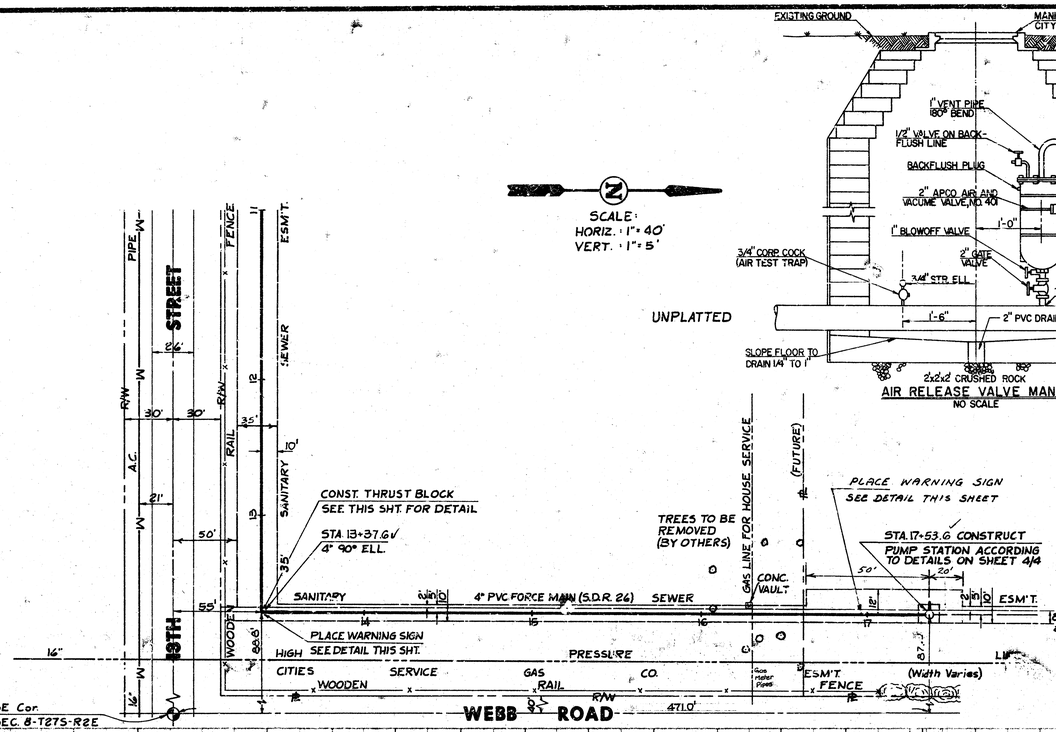
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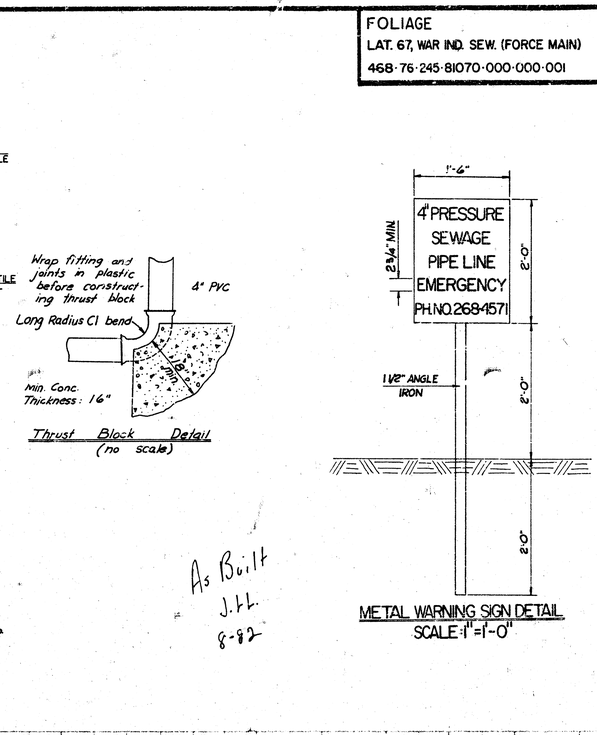
FORCE MAIN 2 3/4

vhs 81

FOLIAGE
LAT. 67, WAR IND. SEW. (FORCE MAIN)
468-76-245-81070-000-000-001

SCALE:
HORIZ. : 1" = 40'
VERT. : 1" = 5'



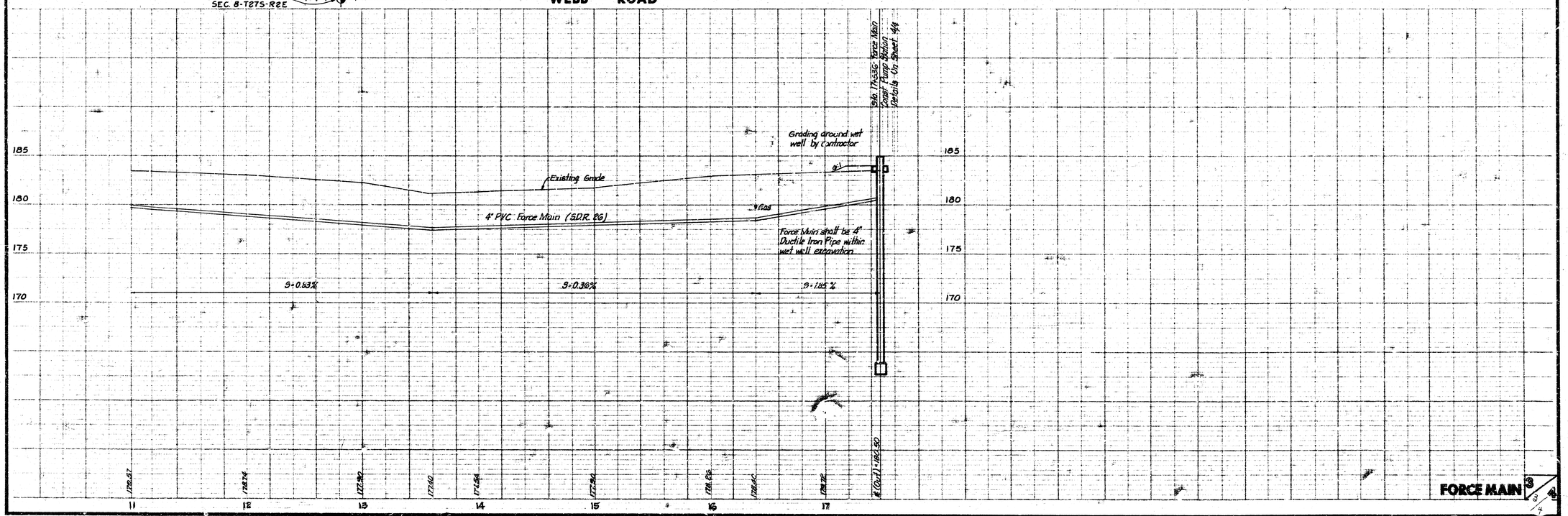


AIR RELEASE VALVE MANHOLE
NO SCALE

Thrust Block Detail
(no scale)

METAL WARNING SIGN DETAIL
SCALE: 1" = 1'-0"

As Built
J.H.L.
8-82



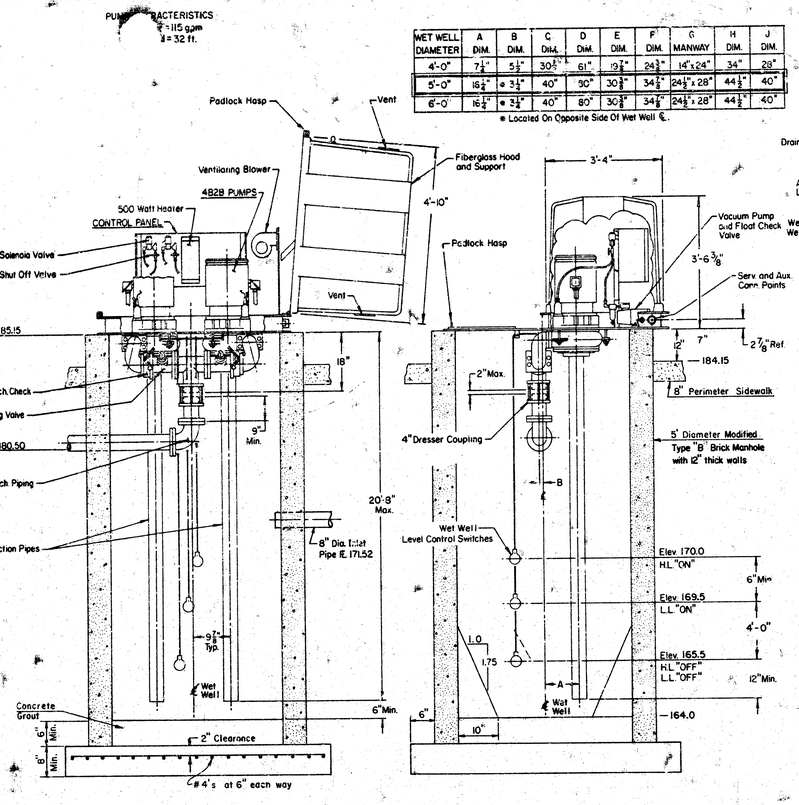
FORCE MAIN 3/4

vhs 81

PUMP CHARACTERISTICS
Q = 115 gpm
H = 32 ft.

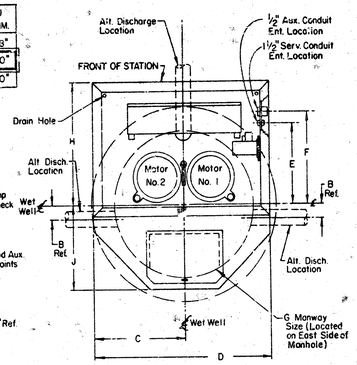
WET WELL DIAMETER	A DIM.	B DIM.	C DIM.	D DIM.	E DIM.	F DIM.	G MANWAY	H DIM.	J DIM.
4'-0"	7¼"	5½"	30½"	61"	19⅜"	24⅜"	14"x24"	34"	28"
5'-0"	15½"	* 3½"	40"	90°	30⅜"	34⅜"	24½"x28"	44½"	40"
6'-0"	16½"	* 3½"	40"	80°	30⅜"	34⅜"	24½"x28"	44½"	40"

* Located On Opposite Side Of Wet Well ℄.

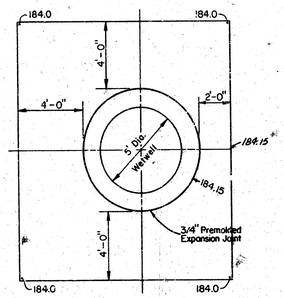


SECTIONAL ELEVATION

CROSS SECTION

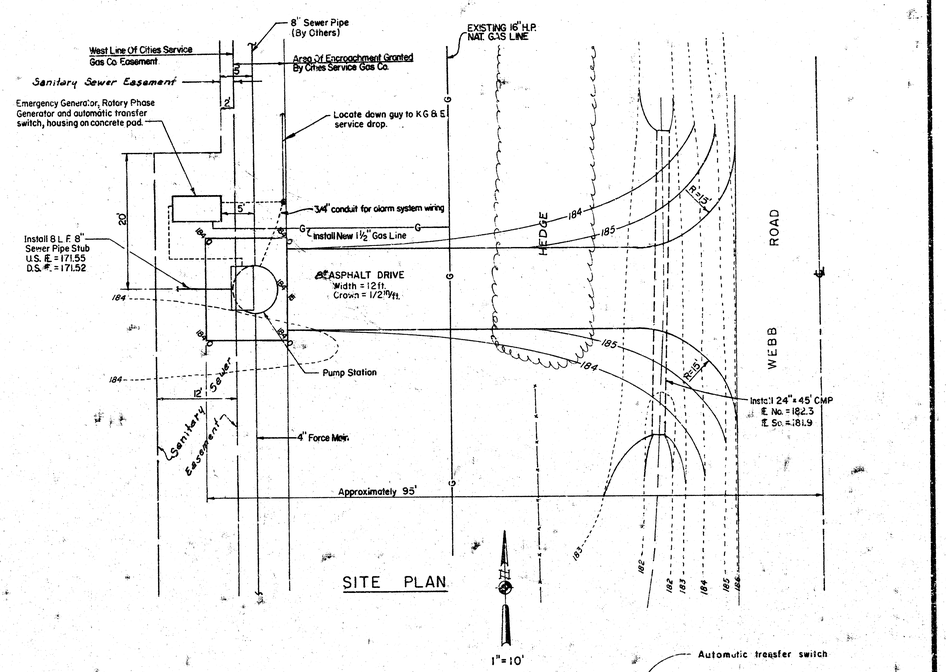


PLAN VIEW
MACH. CHAMBER
(Shown Less Cover)



PLAN

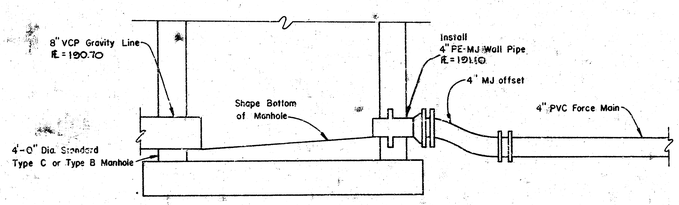
8" PERIMETER SIDEWALK



SITE PLAN

SMITH & LOVELESS PUMP STATION

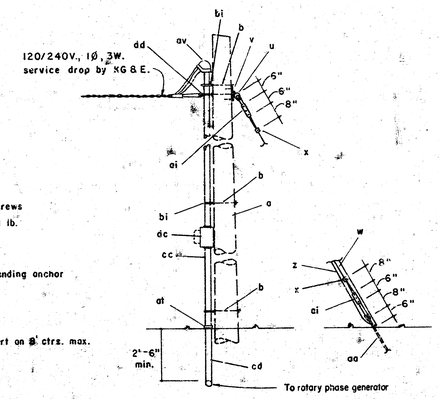
NOTE: DRAWINGS SHOW PUMP VOLUTES AND CHECK VALVES BELOW THE BASE PLATE. LIFT STATION FURNISHED SHALL HAVE PUMP VOLUTES AND CHECK VALVES ABOVE THE BASE PLATE.



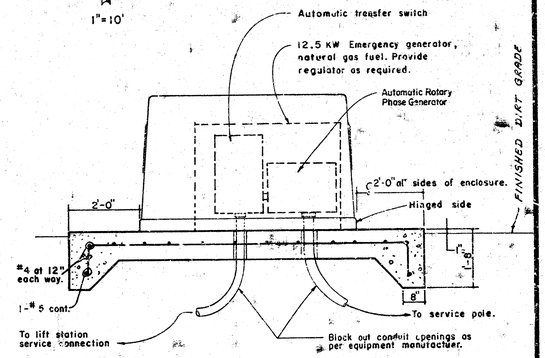
STANDARD MANHOLE WITH FORCE MAIN CONNECTION

MATERIAL SCHEDULE

a	30' Class 5 treated pole
b	5/8" Machine bolt
u	Angle thimbleye bolt, 5/8
v	Curved lift plate with 2- 1/2" Ø x 5" lag screws
w	Guy strand, galvanized, ultimate strength 12M lb.
x	Guy clip
z	Guy guard, galvanized steel, 8'-0"
aa	Anchor rod, thimbleye 3/4" x 8'-0" with expanding anchor
ai	3-bolt clamp
at	Steel to PVC coupling adapter
av	Entrance head fitting
bi	Stand-off bracket and 1/2" U-bolt pipe support on 8' ctrs. max.
cc	3" 6 XHHW in 1" rigid steel galv. conduit
cd	3" 6 XHHW in 1" PVC conduit
dc	Meter socket base (furnished by KG&E).
dd	Insulated clevis



ELECTRICAL SERVICE POLE DETAIL



CONCRETE PAD FOR EMERGENCY GENERATOR

PUMP STATION DETAILS

Design	
Drawn by	
Checked by	
Date	
Job no.	
Sheet	4
of	

Van Doren - Hazard - Stallings
Architects + Engineers + Planners
Topeka Wichita Minneapolis