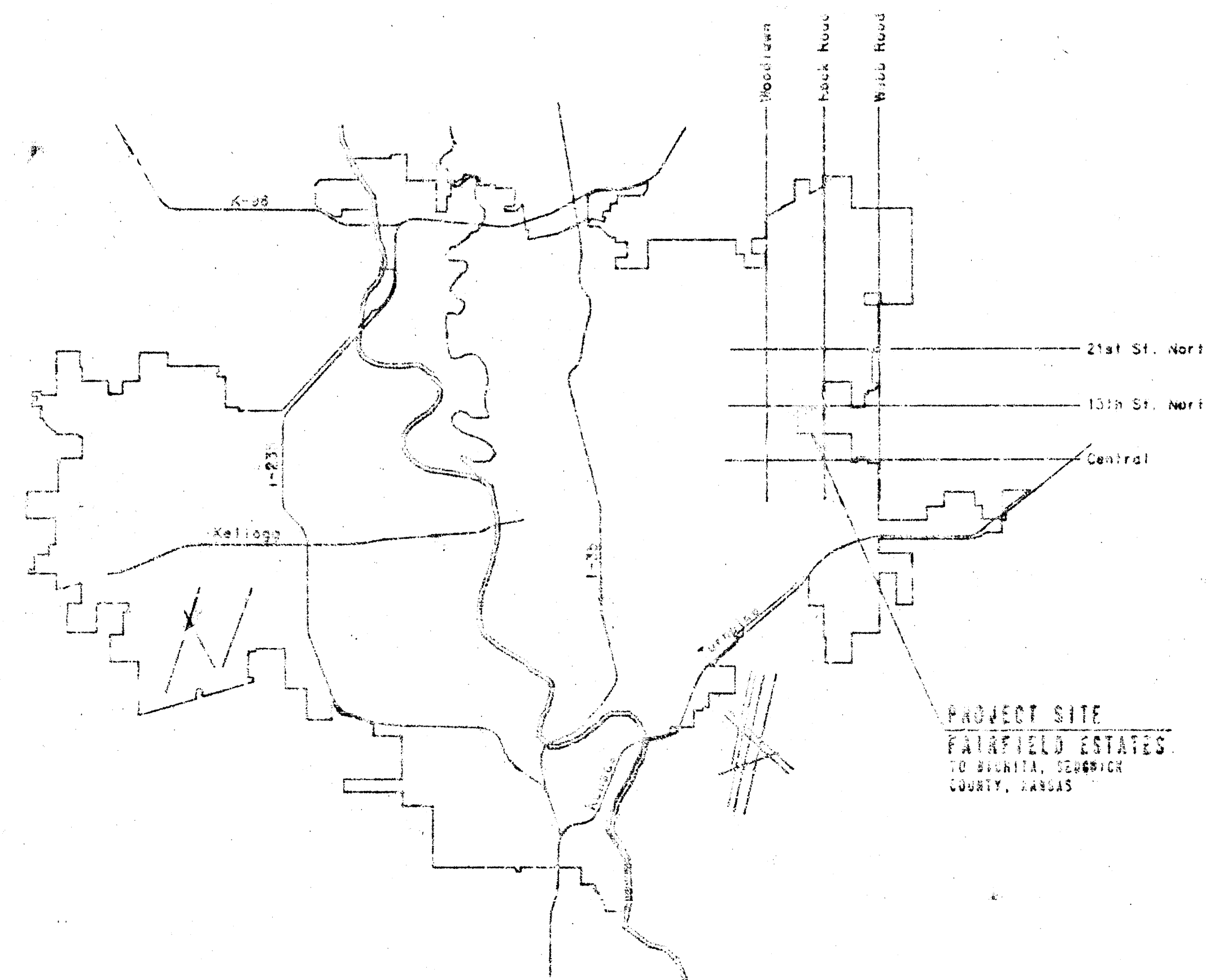


CONSTRUCTION PLANS FOR SANITARY SEWER IMPROVEMENTS FOR FAIRFIELD CLUB APARTMENTS

THE CITY OF WICHITA,
SEDGWICK COUNTY, KANSAS
MICHAEL E. LINDEBAK, P.E.-CITY ENGINEER

INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET
SHEET NO. 2	SITE COORDINATES
SHEET NO. 3	STREET LAYOUT PLAN
SHEET NO. 4 & 5	PLAN & PROFILE
SHEET NO. 6	TYPE A MANHOLE DETAILS
SHEET NO. 7	TYPE B COVER DETAILS
SHEET NO. 8	TYPE C MANHOLE DETAILS



LOCATION MAP

APPROVED AS SHOWN
By CITY ENGINEER OF WICHITA
Sanitary Sewers *[Signature]*
Storm Sewers _____
Driveway Approaches _____
Water Mains _____
Paving _____

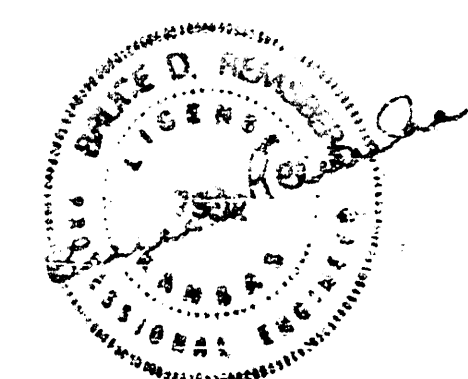
NOTE TO CONTRACTOR

This project will be constructed under the supervision of the CITY ENGINEER and conforming to the ORDINANCES of the CITY OF WICHITA. THE CONTRACTOR will pay the City of Wichita for all costs of plan review, inspection and testing per contract.

CITY OF WICHITA PROJECT NO. 468-76-245-80001-000-000-052

JANUARY, 1986

PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS



BUILDINGS		
POINT NO.	NORTH	EAST
1	3150.359343 N	4738.354771 E
2	3460.707779 N	4838.434771 E
3	3508.228479 N	4848.144528 E
4	3518.354771 N	4716.354771 E
5	3332.354771 N	4800.354431 E
6	3539.354601 N	4735.353242 E
7	3726.378134 N	4771.378134 E
8	3726.378134 N	4771.378134 E
9	3290.334423 N	4925.334423 E
10	3293.334423 N	4928.334423 E
11	3443.344423 N	4843.344423 E
12	3192.344423 N	4813.344423 E
13	3192.344423 N	4813.344423 E
14	3192.344423 N	4813.344423 E
15	3192.344423 N	4813.344423 E
16	3192.344423 N	4813.344423 E
17	3067.303573 N	4938.303573 E
18	3192.303573 N	4938.303573 E
19	3234.267160 N	4755.267160 E
20	3192.267160 N	4826.267160 E
21	3192.267160 N	4826.267160 E
22	3192.267160 N	4826.267160 E
23	3332.368133 N	4827.368133 E
24	3332.368133 N	4827.368133 E
25	3332.368133 N	4827.368133 E
26	3332.368133 N	4827.368133 E
27	3332.368133 N	4827.368133 E
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32	3332.368133 N	4827.368133 E
33	3332.368133 N	4827.368133 E
34	3267.021967 N	4740.021967 E
35	3267.021967 N	4740.021967 E
36	3267.021967 N	4740.021967 E
37	3267.021967 N	4740.021967 E
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40	3267.021967 N	4740.021967 E
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43	3267.021967 N	4740.021967 E
44	3267.021967 N	4740.021967 E
45	3267.021967 N	4740.021967 E
46	3267.021967 N	4740.021967 E
47	3267.021967 N	4740.021967 E
48	3267.021967 N	4740.021967 E
49	3267.021967 N	4740.021967 E
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85	3267.021967 N	4740.021967 E
86	3267.021967 N	4740.021967 E
87	3267.021967 N	4740.021967 E
88	3267.021967 N	4740.021967 E

		CARPORTS			
POINT NO.		NORTH		SOUTH	
A	01	3983.864021	N	4371.583221	
	03	3283.863021	N	4853.595213	
	05	3283.844021	N	4853.588213	
	07	3185.844021	N	4811.582213	
B	09	3186.866121	N	4833.582213	
	11	3186.844021	N	4833.585213	
	13	3184.841121	N	4871.582213	
	15	3083.844440	N	4856.727758	
C	17	3083.828878	N	4754.727758	
	19	3077.715533	N	4752.358349	
	21	3077.715533	N	4753.583313	
	23	3231.322268	N	4811.577713	
D	25	3231.322268	N	4752.358349	
	27	3123.312233	N	4757.125533	
	29	3123.312233	N	4757.125533	
	31	3123.312233	N	4757.125533	
E	33	3180.347023	N	4374.577758	
	35	3123.312233	N	4757.125533	
	37	3142.347073	N	4752.358349	
	39	3123.312233	N	4757.125533	
F	41	3150.326537	N	4759.475537	
	43	3123.312233	N	4757.125533	
	45	3143.303018	N	4754.475772	
	47	3123.312233	N	4757.125533	
G	49	3123.312233	N	4757.125533	
	51	3223.323540	N	4435.153562	
	53	3079.144439	N	4435.153562	
	55	3123.312233	N	4757.125533	
H	57	3123.312233	N	4757.125533	
	59	3211.138312	N	4382.521172	
	61	3182.130038	N	4751.523564	
	63	3123.312233	N	4757.125533	
I	65	3123.312233	N	4757.125533	
	67	3249.433587	N	4502.518175	
	69	3183.433587	N	4502.518175	
	71	3183.433587	N	4502.518175	
J	73	3183.433587	N	4502.518175	
	75	3183.433587	N	4502.518175	
	77	3248.433587	N	4502.518175	
	79	3248.433587	N	4502.518175	
K	81	3248.433587	N	4502.518175	
	83	3248.433587	N	4502.518175	
	85	3248.433587	N	4502.518175	
	87	3248.433587	N	4502.518175	
L	89	3248.433587	N	4502.518175	
	91	3248.433587	N	4502.518175	
	93	3248.433587	N	4502.518175	
	95	3248.433587	N	4502.518175	
M	97	3248.433587	N	4502.518175	
	99	3248.433587	N	4502.518175	
	101	3248.433587	N	4502.518175	
	103	3248.433587	N	4502.518175	
N	105	3248.433587	N	4502.518175	
	107	3248.433587	N	4502.518175	
	109	3248.433587	N	4502.518175	
	111	3248.433587	N	4502.518175	
O	113	3248.433587	N	4502.518175	
	115	3248.433587	N	4502.518175	
	117	3248.433587	N	4502.518175	
	119	3248.433587	N	4502.518175	
P	121	3248.433587	N	4502.518175	
	123	3248.433587	N	4502.518175	
	125	3248.433587	N	4502.518175	
	127	3248.433587	N	4502.518175	
Q	129	3248.433587	N	4502.518175	
	131	3248.433587	N	4502.518175	
	133	3248.433587	N	4502.518175	
	135	3248.433587	N	4502.518175	
R	137	3248.433587	N	4502.518175	
	139	3248.433587	N	4502.518175	
	141	3248.433587	N	4502.518175	
	143	3248.433587	N	4502.518175	
S	145	3248.433587	N	4502.518175	
	147	3248.433587	N	4502.518175	
	149	3248.433587	N	4502.518175	
	151	3248.433587	N	4502.518175	
T	153	3248.433587	N	4502.518175	
	155	3248.433587	N	4502.518175	
	157	3248.433587	N	4502.518175	
	159	3248.433587	N	4502.518175	
U	161	3248.433587	N	4502.518175	
	163	3248.433587	N	4502.518175	
	165	3248.433587	N	4502.518175	
	167	3248.433587	N	4502.518175	
V	169	3248.433587	N	4502.518175	
	171	3248.433587	N	4502.518175	
	173	3248.433587	N	4502.518175	
	175	3248.433587	N	4502.518175	
W	177	3248.433587	N	4502.518175	
	179	3248.433587	N	4502.518175	
	181	3248.433587	N	4502.518175	
	183	3248.433587	N	4502.518175	
X	185	3248.433587	N	4502.518175	
	187	3248.433587	N	4502.518175	
	189	3248.433587	N	4502.518175	
	191	3248.433587	N	4502.518175	
Y	193	3248.433587	N	4502.518175	
	195	3248.433587	N	4502.518175	
	197	3248.433587	N	4502.518175	
	199	3248.433587	N	4502.518175	
Z	201	3248.433587	N	4502.518175	
	203	3248.433587	N	4502.518175	
	205	3248.433587	N	4502.518175	
	207	3248.433587	N	4502.518175	

STREET CENTERLINE P.I.'s			
POINT NO.	NORTH		SOUTH
01	3332.257423		4955.500000 E
02	3331.251422		4936.543300 E
03	3370.293202		4830.583300 E
04	3373.102106		4536.081875 E
05	3372.028877		4532.081875 E
06	3372.028877		4372.018175 E
07	3564.203169		4372.018175 E
08	3564.203169		4331.255228 E
09	3611.927733		4331.255228 E
10	3614.927733		4745.255278 E
11	3693.300834		4830.583300 E
12	3558.814803		4830.583300 E
13	3562.059807		4955.500000 E
14	3307.933557		4703.015935 E
15	3373.213011		4704.302609 E
16	3373.213792		4519.735193 E
17	3373.213627		4519.735193 E
18	3309.317585		4419.241463 E
19	3309.433408		4372.018175 E
20	3362.088592		4372.018175 E
21	3352.059807		4532.081875 E
22	3359.255006		4757.421806 E

GARAGES					
POINT NO.		NORTH		SOUTH	
01		3159	112984 N	4308	355399 E
1		3159	853536 N	4736	897878 E
02		3159	863441 N	4735	748509 E
3		3159	854541 N	4736	712139 E
04		3159	112521 N	4308	745302 E
2		3139	866441 N	4736	746053 E
07		3115	857018 N	4736	594142 E
08		3115	857018 N	4736	594142 E
3		3159	853536 N	4486	478604 E
5		3181	183504 N	4405	480330 E
10		3115	596815 N	4453	326467 E
11		3115	596815 N	4453	326467 E
12		3181	183504 N	4405	480330 E
4		3115	853536 N	4486	478604 E
14		3181	268372 N	4453	326467 E
15		3181	268372 N	4453	326467 E
16		3181	268372 N	4453	326467 E
17		3181	268372 N	4453	326467 E
18		3181	268372 N	4453	326467 E
19		3181	268372 N	4453	326467 E
20		3430	434037 N	4340	018175 E
21		3430	434037 N	4340	018175 E
22		3430	434037 N	4340	018175 E
23		3430	434037 N	4340	018175 E
24		3430	434037 N	4340	018175 E
25		3430	434037 N	4340	018175 E
26		3430	434037 N	4340	018175 E
27		3430	434037 N	4340	018175 E
28		3430	434037 N	4340	018175 E
29		3430	434037 N	4340	018175 E
30		3430	434037 N	4340	018175 E
31		3430	434037 N	4340	018175 E
32		3430	434037 N	4340	018175 E
33		3430	434037 N	4340	018175 E
34		3430	434037 N	4340	018175 E
35		3430	434037 N	4340	018175 E
36		3430	434037 N	4340	018175 E
37		3430	434037 N	4340	018175 E
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95		3430	434037 N	4340	018175 E
96		3430	434037 N	4340	018175 E
97		3430	434037 N	4340	018175 E
98		3430	434037 N	4340	018175 E
99		3430	434037 N	4340	018175 E
100		3430	434037 N	4340	018175 E

GARAGE	NO. OF STALLS	WIDTH OF STALLS	CARPORT
1	8	9.0'	72.0'
2	3	9.0'	72.0'
3	9	9.0'	81.0'
4	9	9.0'	81.0'
5	10	9.0'	90.0'
6	10	9.0'	90.0'
7	10	9.0'	90.0'
8	9	9.0'	81.0'
9	9	9.0'	81.0'
10	9	9.0'	81.0'

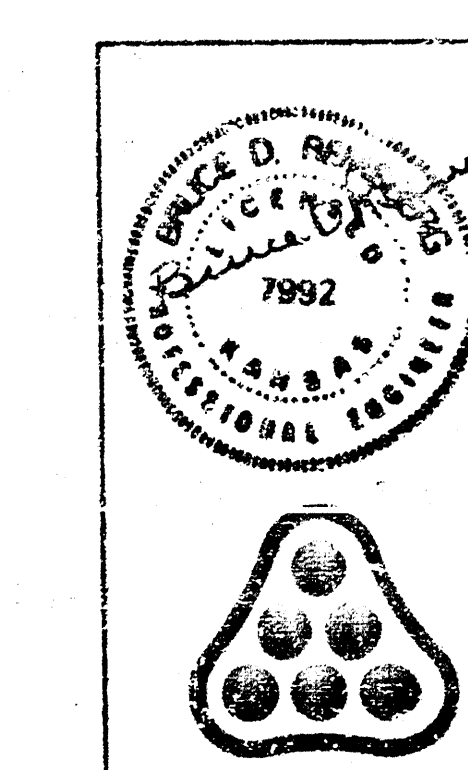
CARPORT	NO. OF STALLS	WIDTH OF STALLS	CARPORT
A	8	9.0'	72.0'
B	4	9.0'	72.0'
C	4	9.0'	72.0'
D	6	9.0'	84.0'
E	6	9.0'	84.0'
F	6	9.0'	84.0'
G	10	9.0'	90.0'
H	9	9.0'	81.0'
I	9	9.0'	81.0'
J	6	9.0'	84.0'
K	6	9.0'	84.0'
L	5	9.0'	75.0'
M	5	9.0'	75.0'
N	5	9.0'	75.0'
O	5	9.0'	75.0'
P	5	9.0'	75.0'
Q	8	9.0'	72.0'
R	3	9.0'	72.0'
S	3	9.0'	72.0'
T	10	8.7'	87.0'
U	10	9.0'	90.0'
V	10	9.0'	90.0'
W	8	9.0'	72.0'

STORM SEWER STRUCTURES			SOUTH	
POINT NO.	NORTH			
1	2926.	487743 N	4935.	000000 E
2	3025.	490542 N	4935.	000000 E
3	3026.	496484 N	4855.	545898 E
4	3177.	372713 N	4682.	217483 E
5	3178.	350075 S	4532.	181951 E
6	3105.	317555 N	4519.	261435 E
7	3170.	383002 N	4538.	563303 E
8	3171.	383056 N	4735.	535318 E
9	3193.	344685 N	4745.	559493 E
10	3124.	356674 N	4636.	662759 E
11	3360.	622587 N	4631.	634762 E
12	3573.	250043 N	4900.	000000 E
13	3603.	140854 N	4938.	565350 E
14	3579.	903888 N	4745.	144601 E
15	3468.	318469 N	4742.	838921 E
16	3468.	338669 N	4576.	184875 E
17	3468.	338669 N	4484.	184875 E
18	3468.	338669 N	4330.	018075 E
19	3279.	321898 N	4400.	018175 E
20	3164.	852282 E	4882.	000000 E
21	3468.	333469 N	4372.	018175 E

BENCH MARKS:

Railroad Spike in Northwest face 20' dia. Elm tree 30' East of the Northwest corner Lot 18, Block 10, Fairfield Estates.
Elev. 187.65 (City Datum)

Chiseled "a" in center on East side of Storm Drain Inlet on the West side of Rock Road 90' South of the Southeast corner of Lot 18, block 10, Fairfield Estates.
Elev. 181.06 (City Datum)



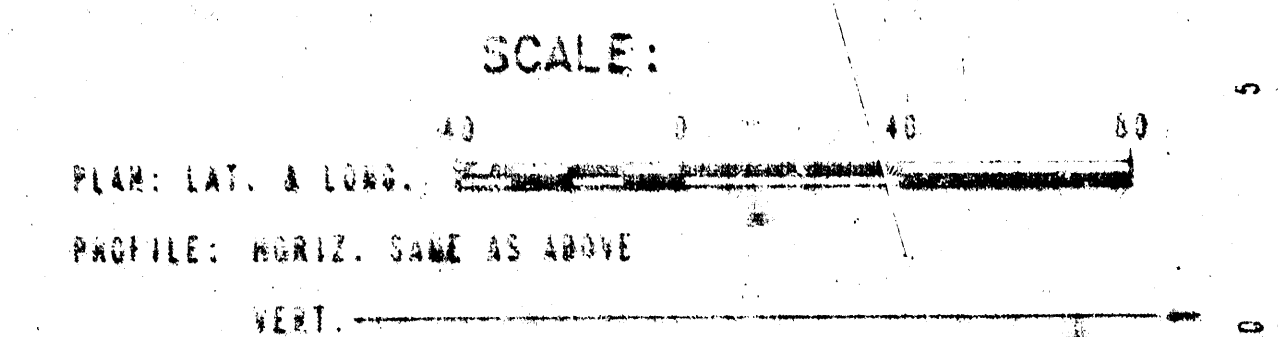
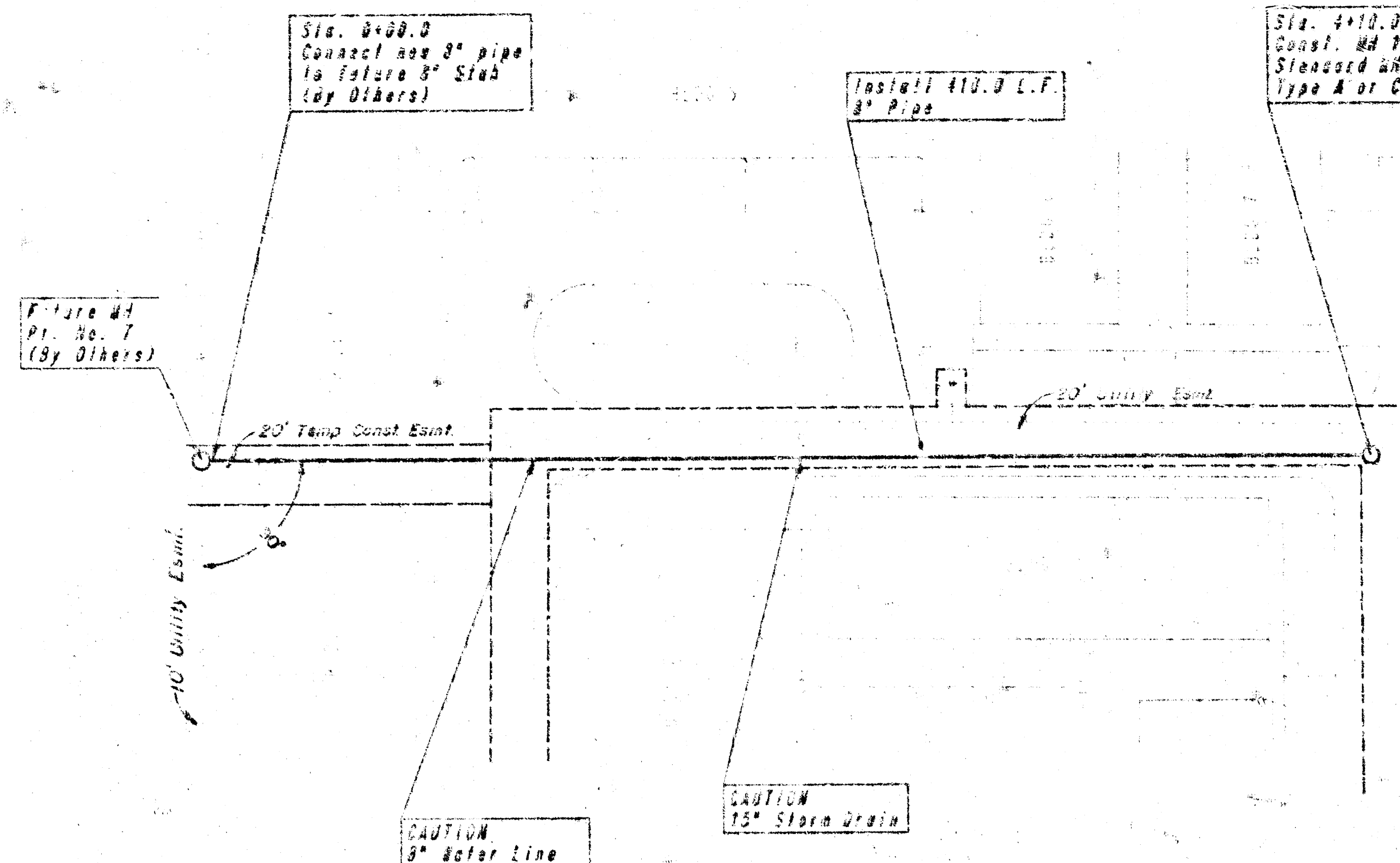
2	Revised Sewer & Water	DR	1-28-85
1	Per Revised Grading Plan	BR	11-27-85
	Revision	By	Date

FAIRFIELD CLUB APARTMENTS

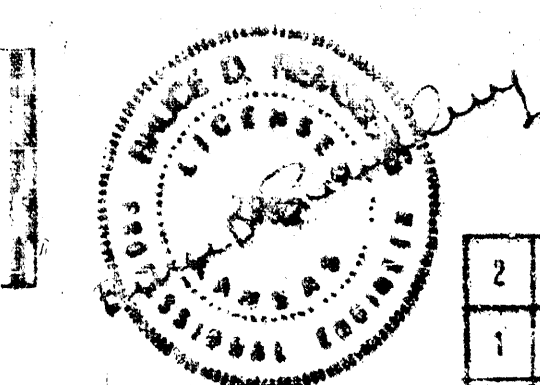
SITE COORDINATES

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

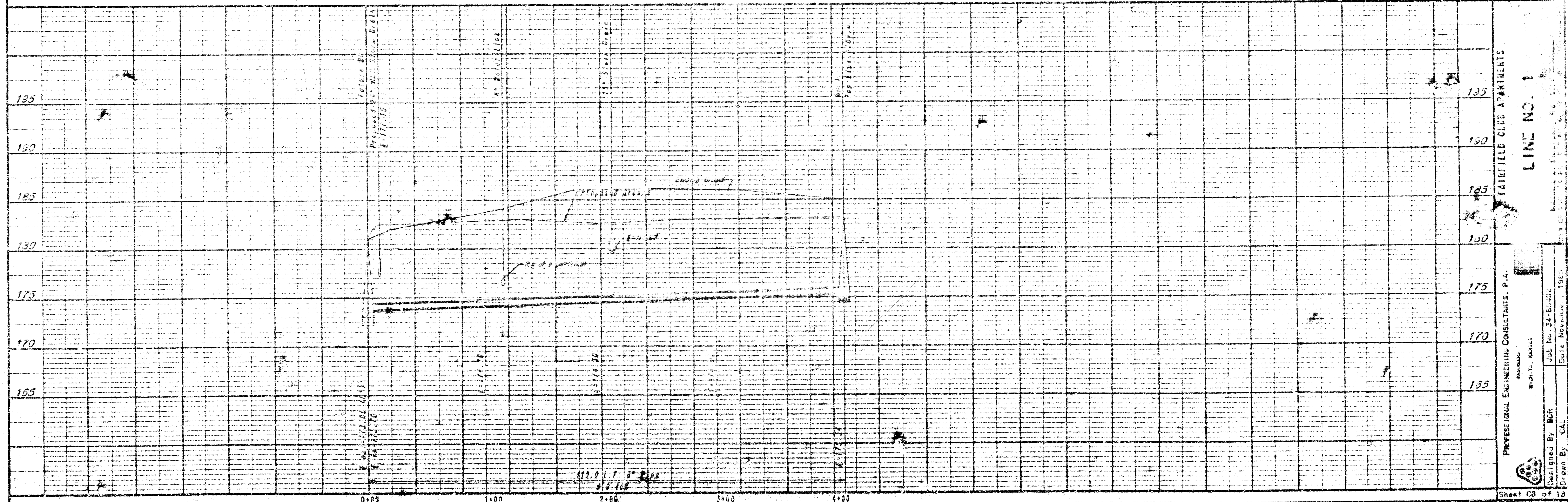
Designed by	BDR	Job No.	34-85492	Sht. C1 of 10
Drawn by	CAL	Date	November, 1985	



- GENERAL NOTES
1. ALL CONSTRUCTION AND MATERIALS TO COMPLY WITH CITY OF WICHITA SPECIFICATIONS AND STANDARDS.
 2. ALL ELEVATIONS SHOWN ARE CITY OF WICHITA DATUM (ELEV. 1107.4 = CITY DATUM).
 3. THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHT AND WEARWAYS TO LESS THAN 50 FEET.
 4. AT LEAST 48 HOURS PRIOR TO BEGINNING EXCAVATION, IF REQUIRED (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE CALL SYSTEM, A UTILITY LOCATION SERVICE, AT (913) 947-2470 TO REQUEST THE FOLLOWING UTILITY COMPANIES TO LOCATE ANY EXISTING LINES WITHIN THE PROJECT AREA: GAS SERVICE COMPANY, K.S.B.E., THE WICHITA WATER DEPARTMENT, AND AIR CAPITAL CABLEVISION.
 5. THE CONTRACTOR MUST ALSO NOTIFY THE TELEPHONE COMPANY AT (913) 571-2115 48 HOURS PRIOR TO BEGINNING EXCAVATION AND REQUEST THAT ANY LINES WITHIN THE PROJECT AREA BE FLAGGED.
 6. THE BURIED UTILITIES AS LOCATED ON THE PLANS ARE APPROXIMATE LOCATIONS ONLY. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND COPIES MAY EXIST WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES. ANY LINES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 7. THE CONTRACTOR SHALL RESTORE ALL DITCHES, SLOES, ROAD SHOULDER, ENTRANCES, AND BANK LINES TO THEIR ORIGINAL SLOPES EXCEPT AS SHOWN OTHERWISE ON THE EASEMENT GRADING PLAN.
 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY LINES. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY LINES WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH TRENCHES SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO THE OTHER ITEMS OF WORK.
 9. ALL EXCESS EXCAVATED MATERIAL FROM THIS PROJECT SHALL BE WASTED ON SITE. NO EXCESS MATERIAL SHALL BE PLACED WITHIN STREET RIGHTS-OF-WAY. THE CONTRACTOR SHALL CONTACT THE DEVELOPER FOR INFORMATION PERTAINING TO ACCEPTABLE LOCATIONS FOR THE DISPOSITION OF WASTE MATERIAL. WASTE MATERIAL SHALL BE GRADED SMOOTH AND SLOPED TO DRAIN. THIS WORK SHALL BE SUBSIDIARY TO OTHER BID ITEMS.
 10. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.



NO.	REVISION	DATE
2	Revised San. Sewer	01-27-80
1	Per Revised Grading Plan	11-27-75
0		01-27-75



FAIRFIELD CUE APARTMENTS

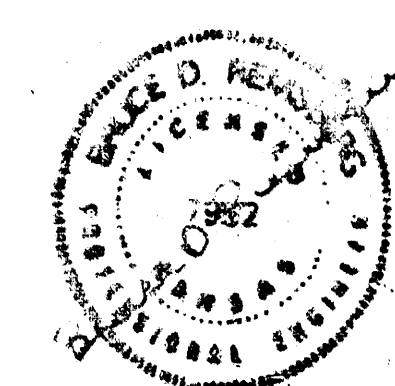
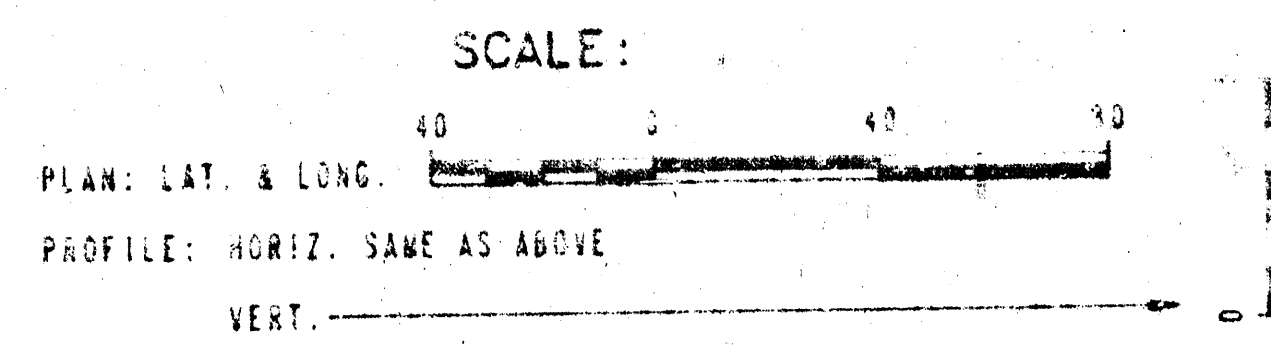
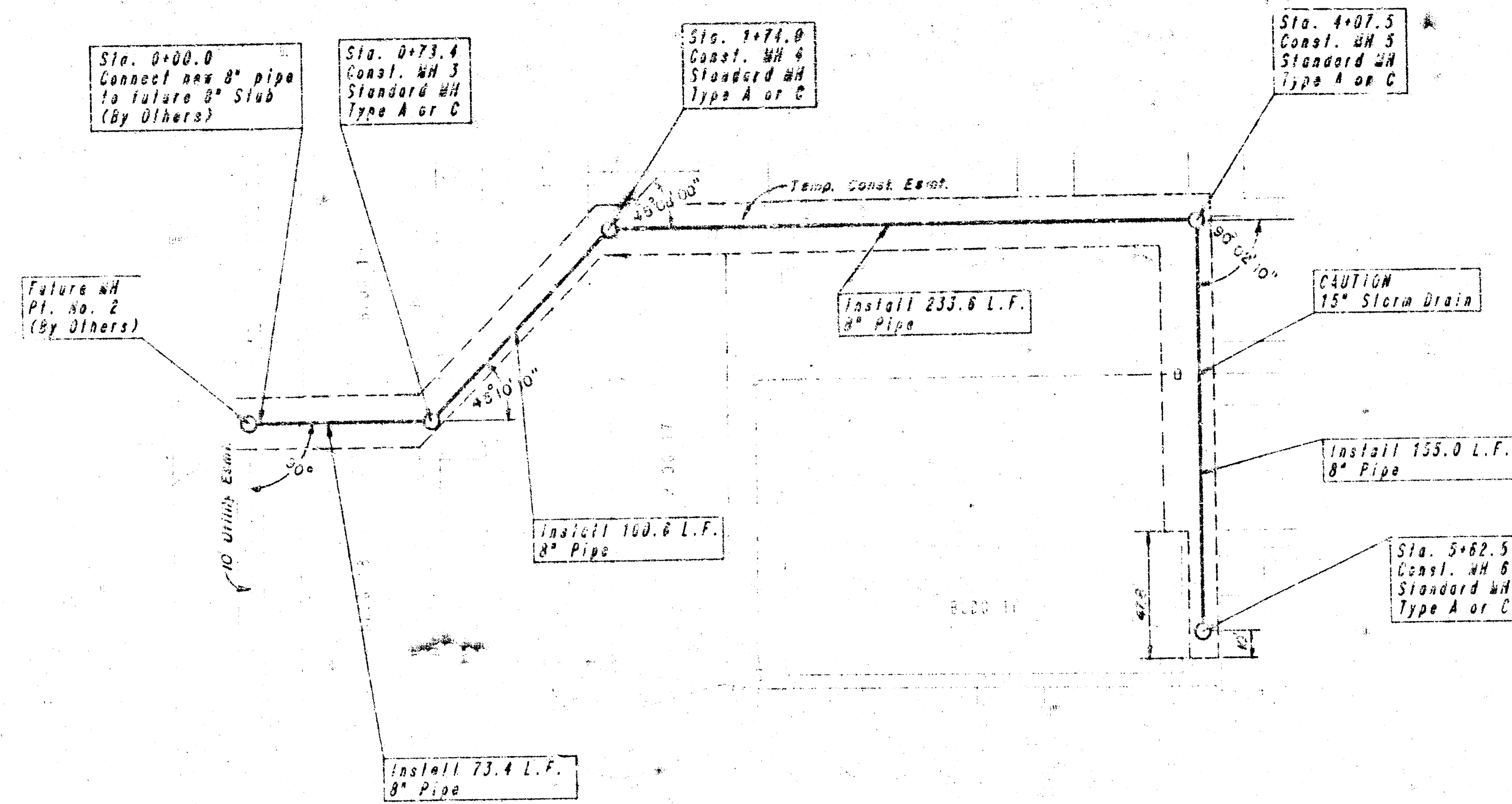
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

Wichita, Kansas

Job No. 34-B-002

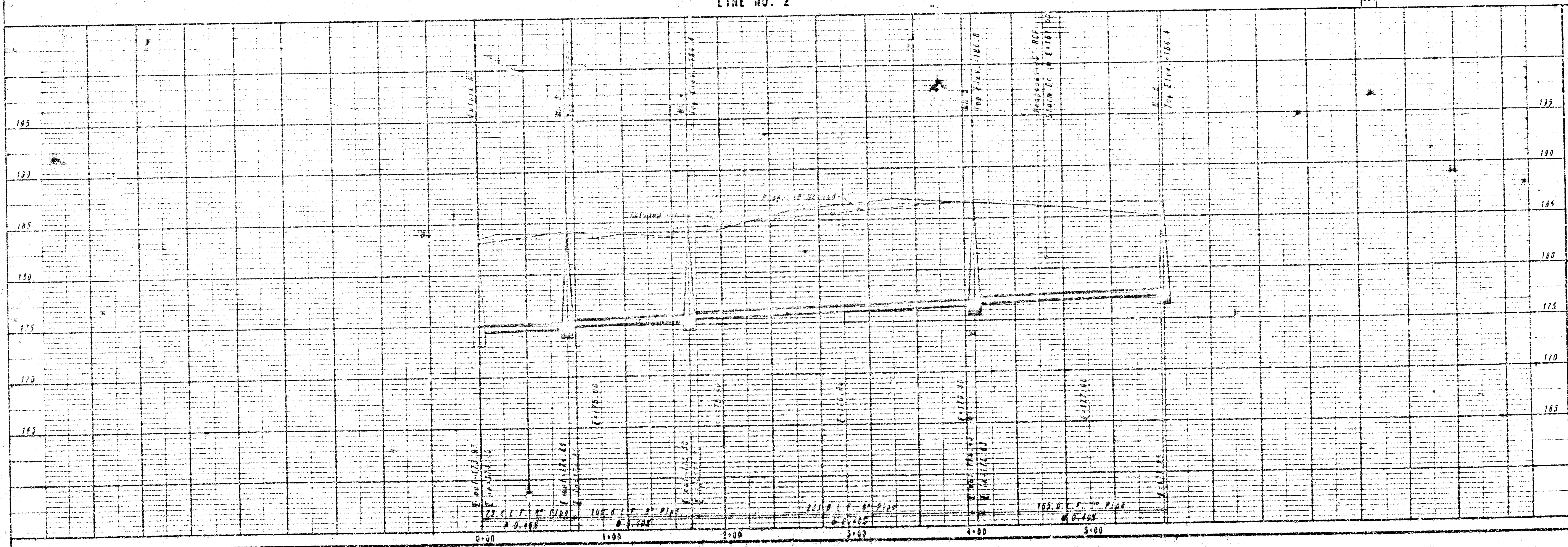
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Sheet 08 of 10



2	Revised San. Dept.	SR	1-27-56
1	Per Revised Grading Plan	SR	11-27-55
No.	Revision	By	Date

LINE NO. 2



FAIRFIELD CLUB APARTMENTS

LINE NO. 2

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 1001 K STREET, N.W.
 WASHINGTON, D.C.

Designed By BDR
 Drawn By CAL

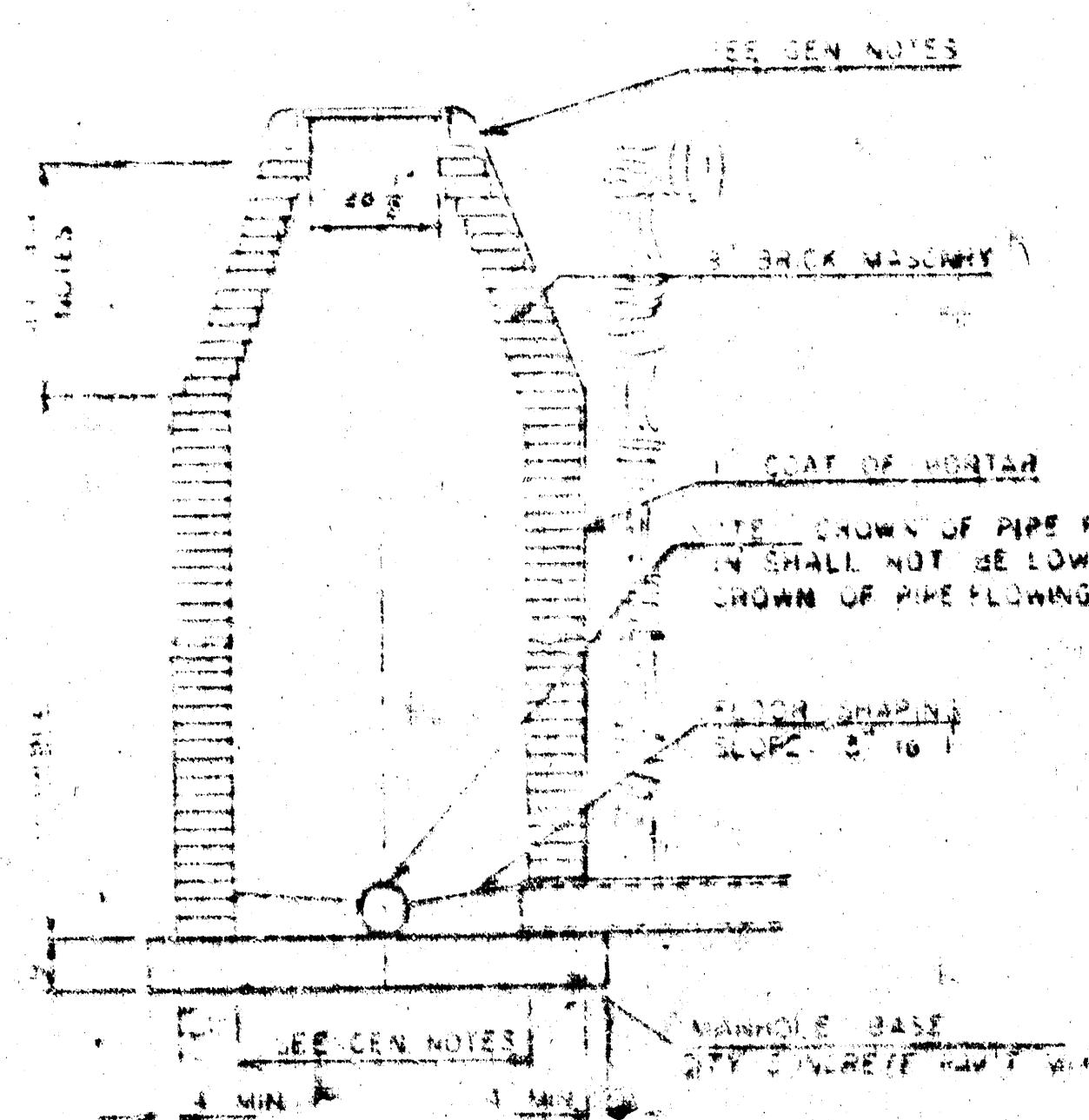
Sheet 02 of 16

REVISED SEPTEMBER 1980
REVISED DECEMBER 1981

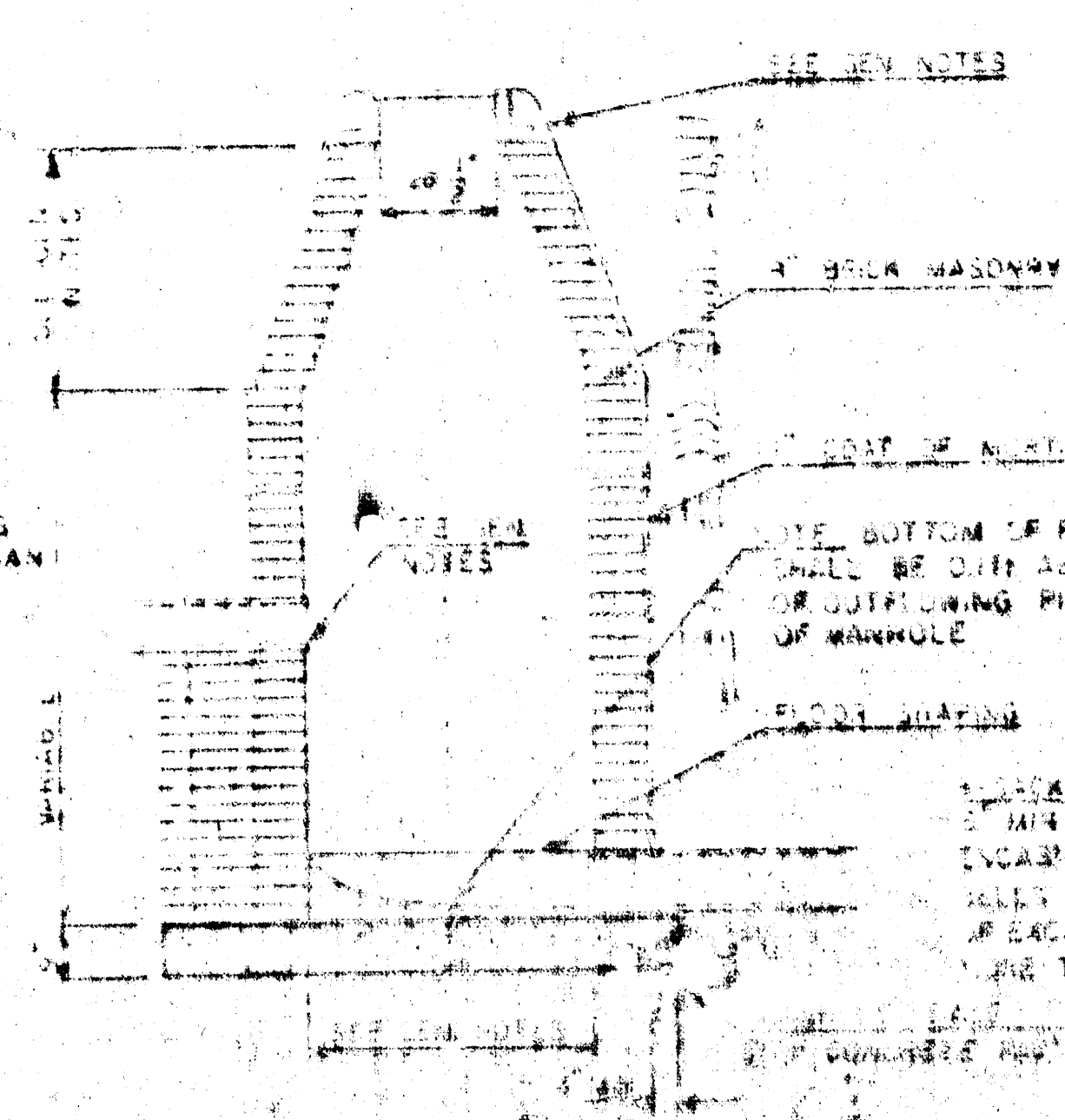
REVISÉ DÉCEMBRE 1966

CITY of WICHITA, KANSAS

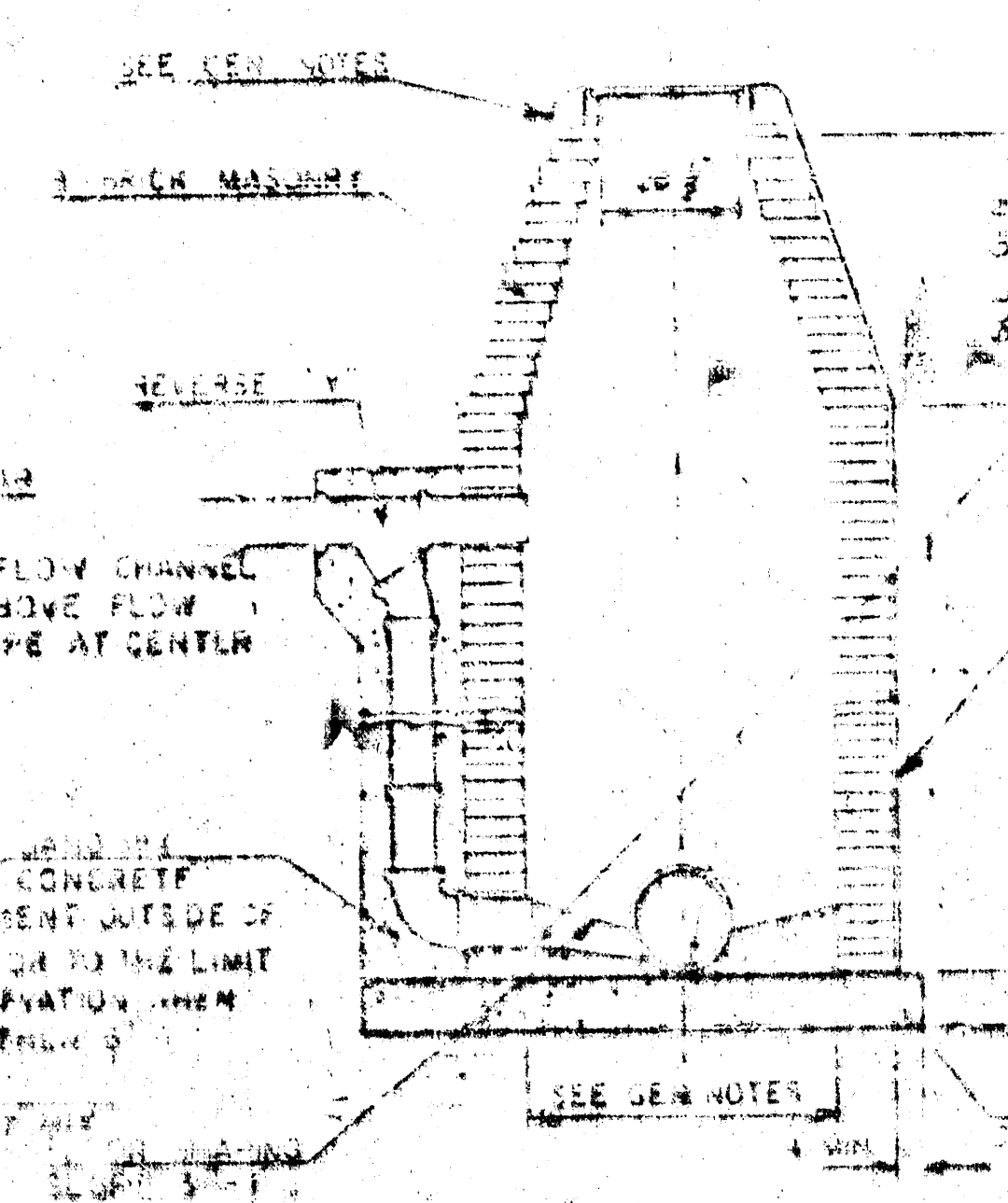
TYPE "A" MANHOLE



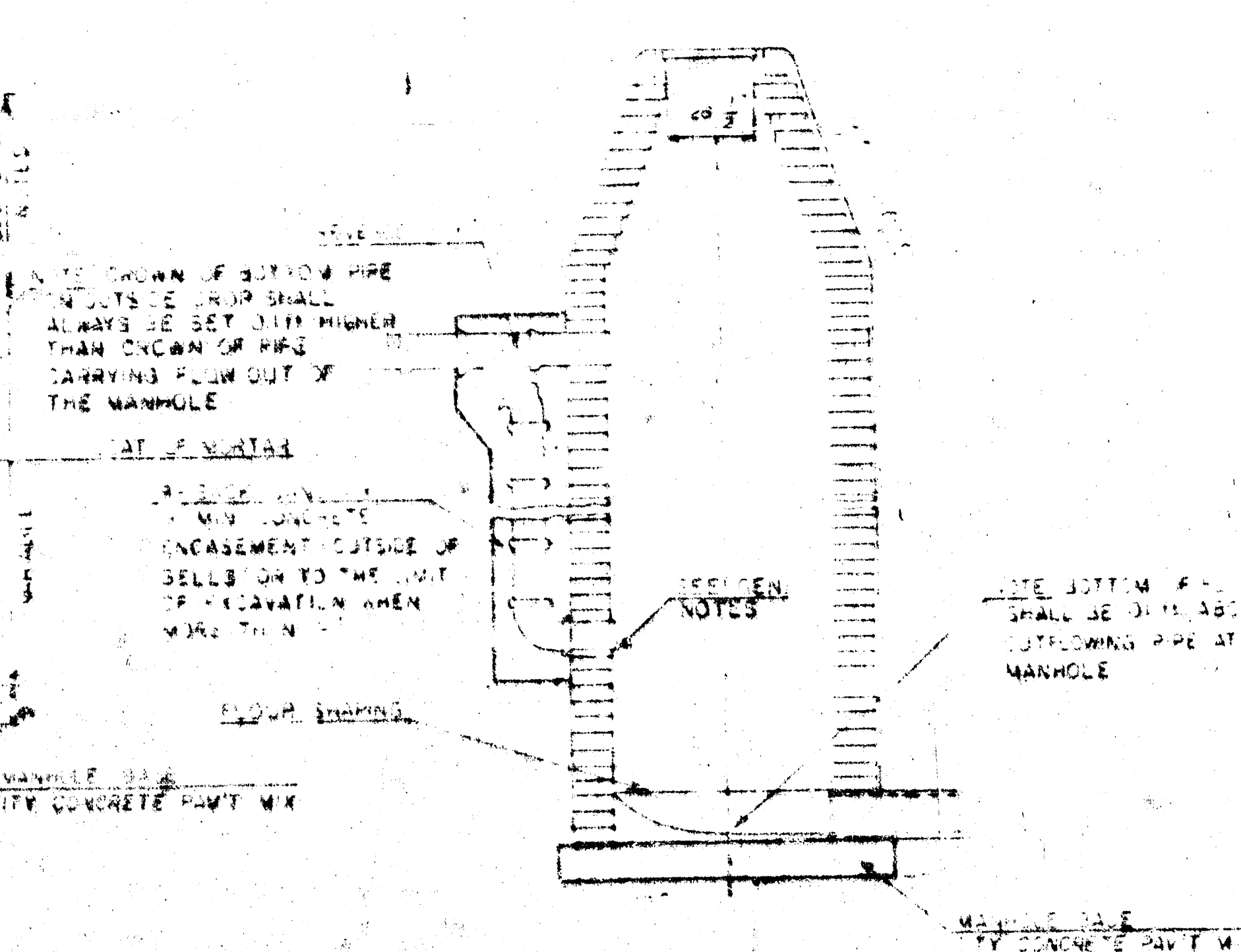
TYPE "A" INSIDE DROP MANHOLE



TYPE "A" OUTSIDE DROP MANHOLE



DETAIL OF OUTSIDE DROP
CONSTRUCTED ON EXISTING MANHOLE

[illegible]

REINFORCED STEEL SHALL BE INSTALLED IN 15 ROWS OF 10 BARS EACH AND SHALL
CONSIST OF 10% + 30% PLATE OF 1" THICK IN THE TENSIONED, 10%
+ 30% PLATE WITH REINFORCED STEEL SHALL BE PLACED IN THE TENSIONED AND 10%
+ 30% PLATE. ALL JOINTS FOR REINFORCED STEEL SHALL BE PLACED IN THE
TENSIONED AND 10% PLATE IN THE TENSIONED AND 10% PLATE.

1. 1970-1971: The first year of the program was marked by a series of events that led to the establishment of the program. The first year was a period of intense activity, with the program being established in 1970 and the first year of the program being marked by a series of events that led to the establishment of the program.

[illegible][illegible]

As a consequence of the above, the Commission is of the opinion that the information provided by the Commission is not sufficient to establish that the Commission is not a "person" under the Act. The Commission is of the opinion that the Commission is not a "person" under the Act.

The above information was obtained from a review of records of the
Federal Bureau of Investigation, Department of Justice, Washington, D.C.,
and the records of the Federal Bureau of Investigation, Department of Justice,
New York City Office.

3. The following information was obtained from a review of the records of the FBI, New York City, and the New York State Department of Social Services, and the New York State Department of Health, regarding the activities of the above named individuals:

MANHOLE FRAME AND COVER DETAIL

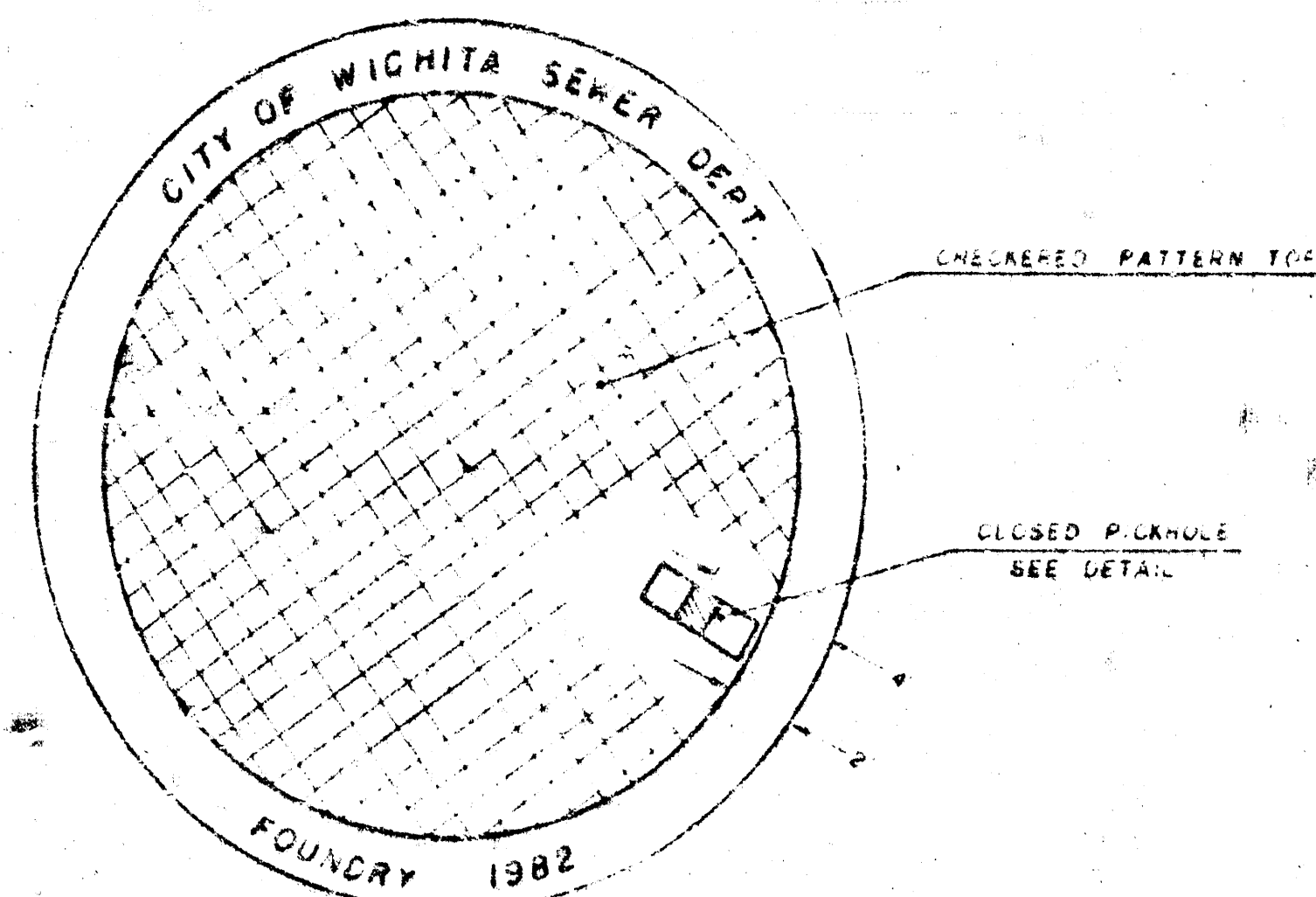
ADOPTED AS STANDARD DESIGN

BY

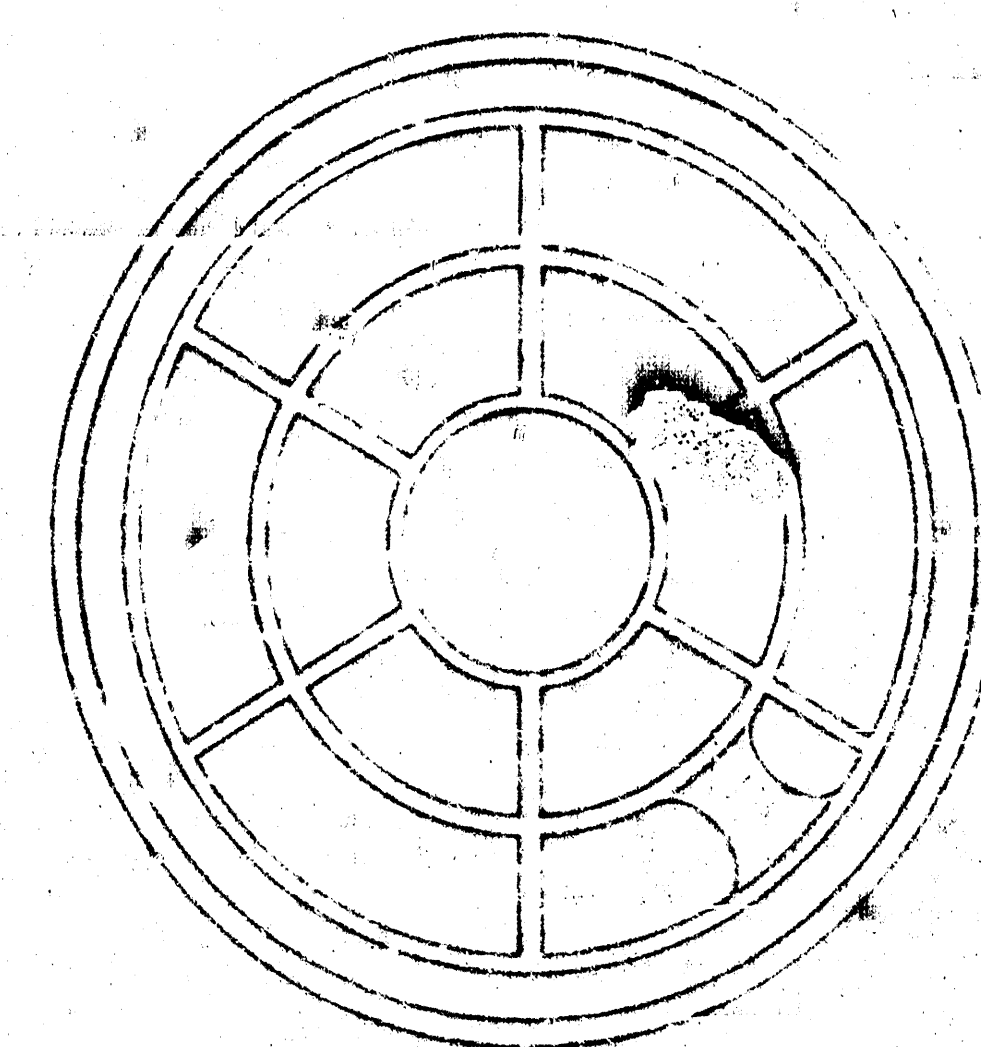
City of Wichita, Kansas

MANHOLE COVER

Weight: 180 Lbs.

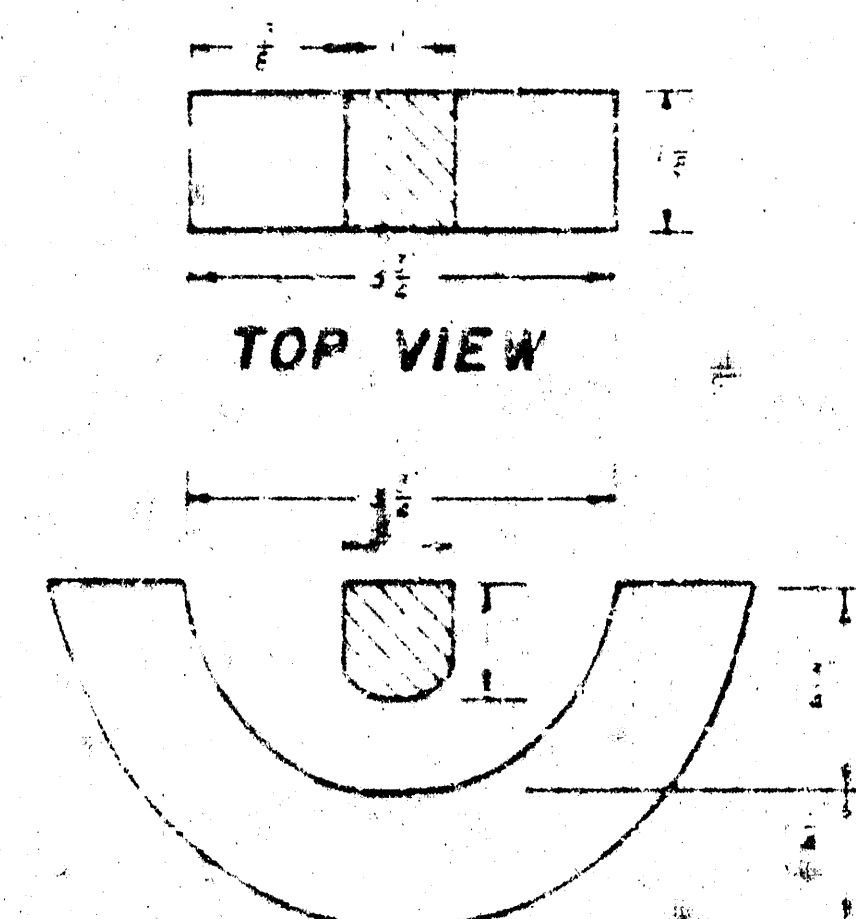


TOP VIEW

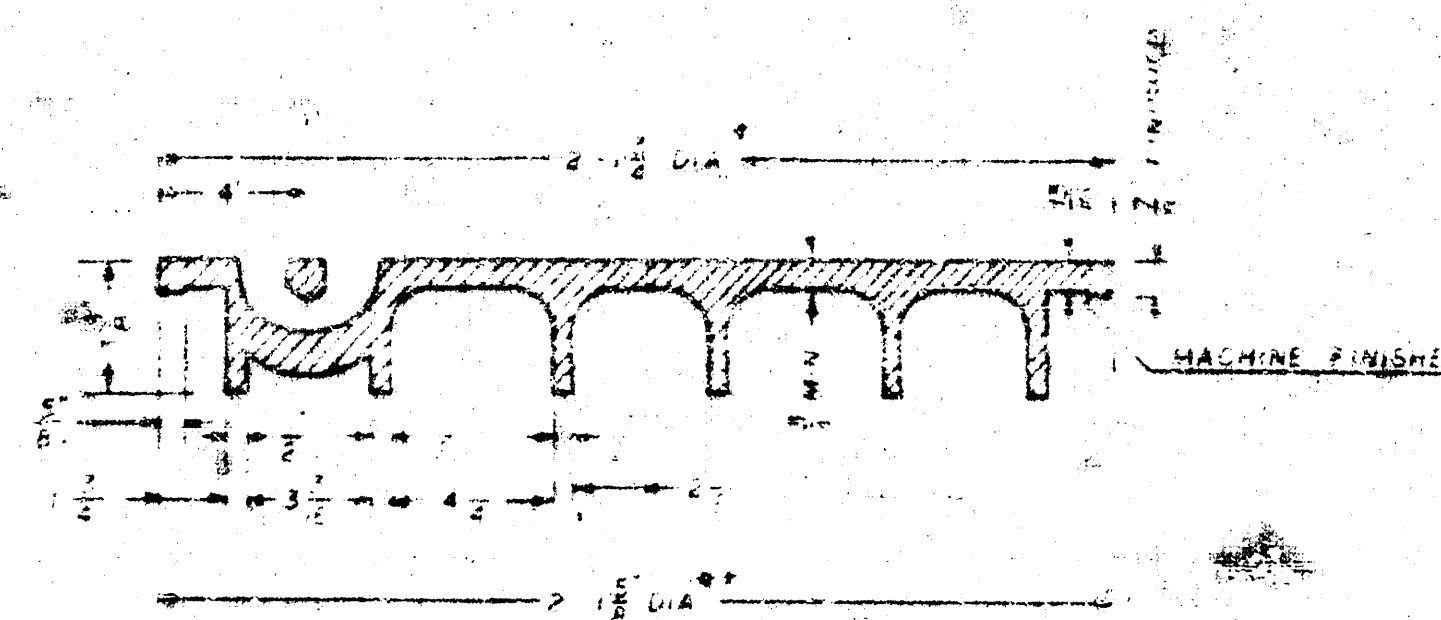


BOTTOM VIEW

PICKHOLE DETAIL



SECTION VIEW

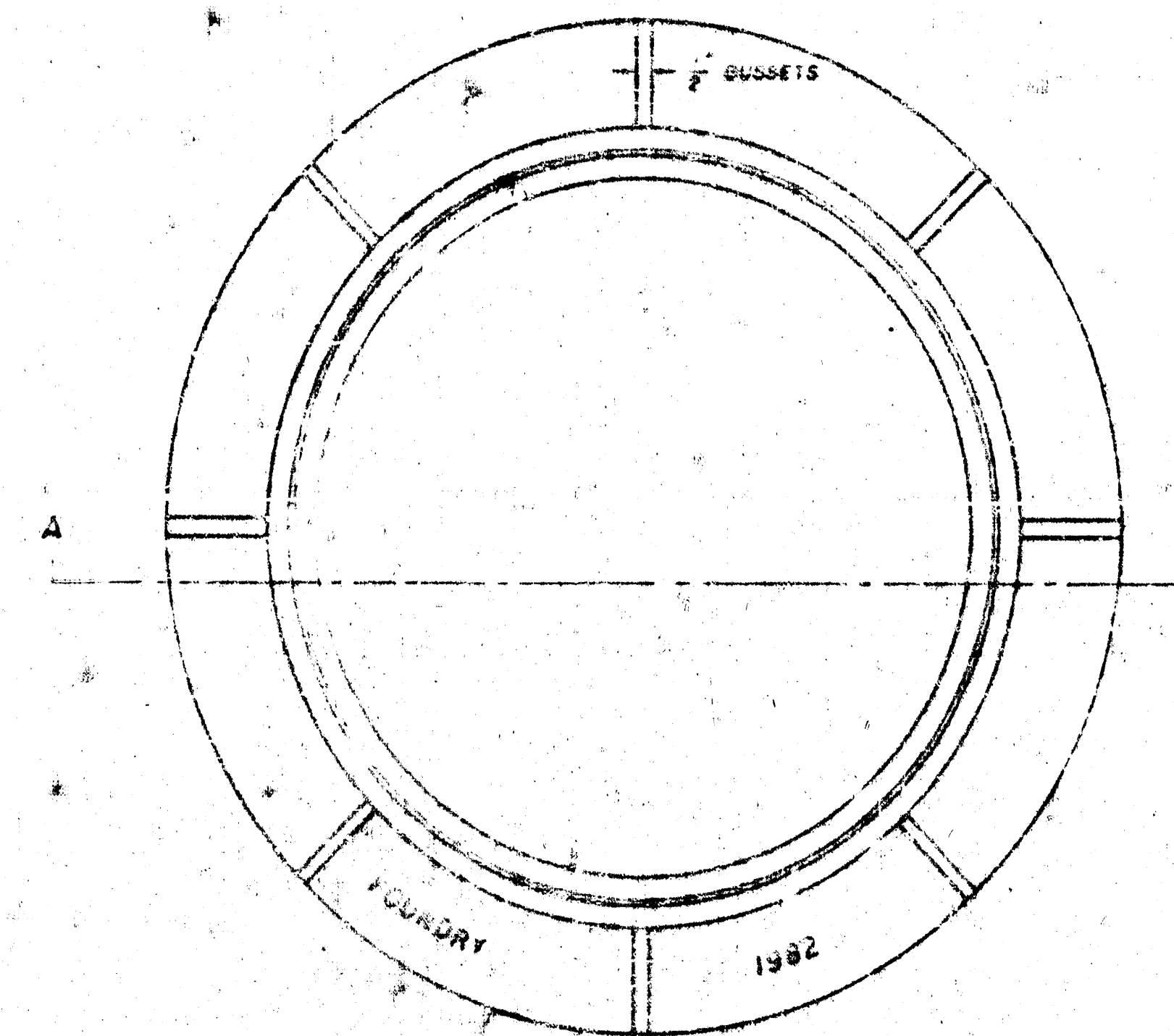


SECTION VIEW

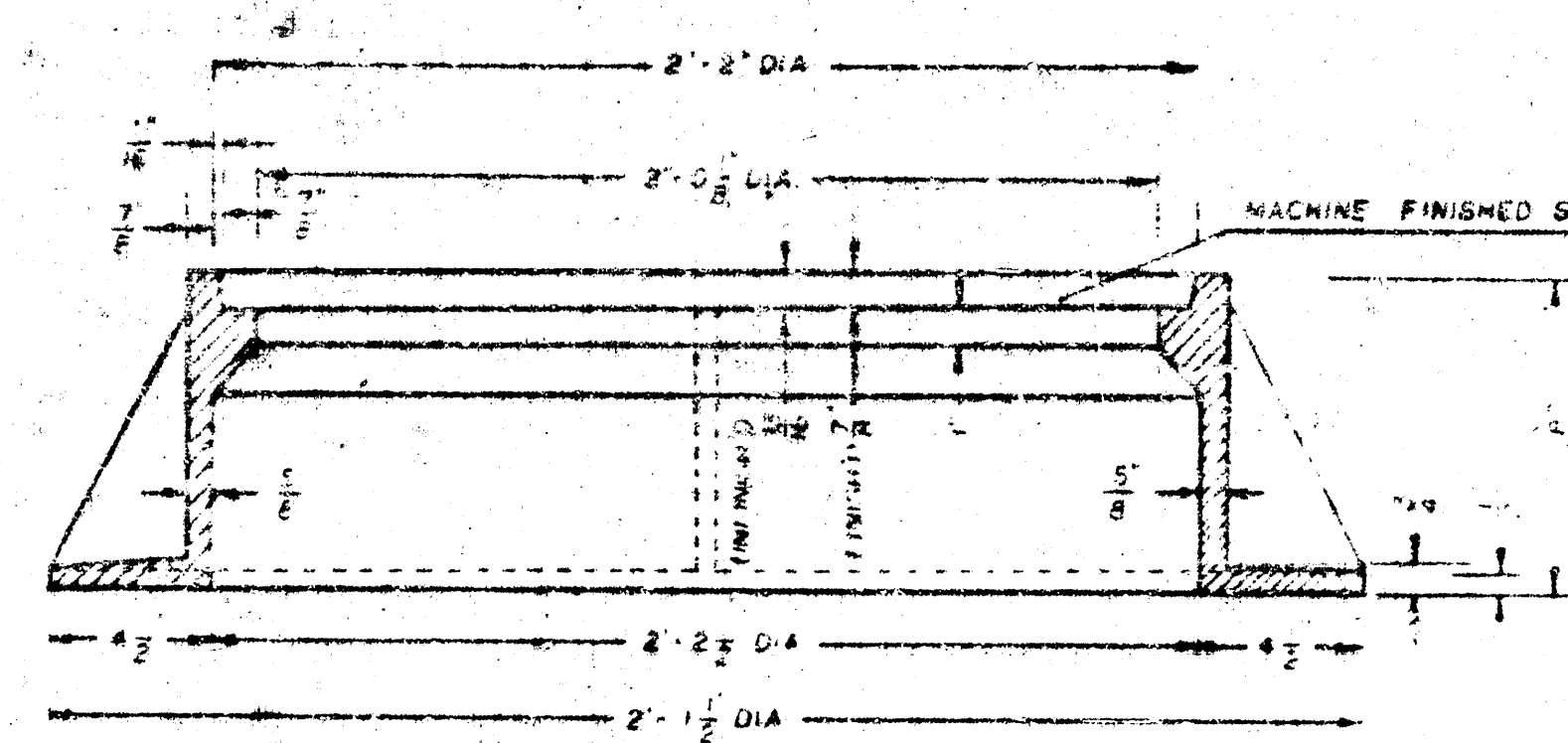
* OUTSIDE DIA. TOP OF CO.
** OUTSIDE DIA. BOTTOM OF CO.

MANHOLE FRAME

Weight: 240 Lbs.



TOP VIEW



SECTION A-A

- GENERAL NOTE
1. MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN SHALL BE APPROVED BY THE CITY ENGINEER. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECT.
 2. MANHOLE CASTINGS SHALL BE COATED WITH AN ASPHALT PAINT RESULTING IN A SMOOTH, TIGHT AND TENACIOUS COATING WHICH IS NOT BRITTLE OR TACKY.
 3. MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.
 4. THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH THAT THESE SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.
 5. THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OF FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1" IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT". THE WORD DEPARTMENT MAY BE ABBREVIATED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN A CHECKERED PATTERN DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.

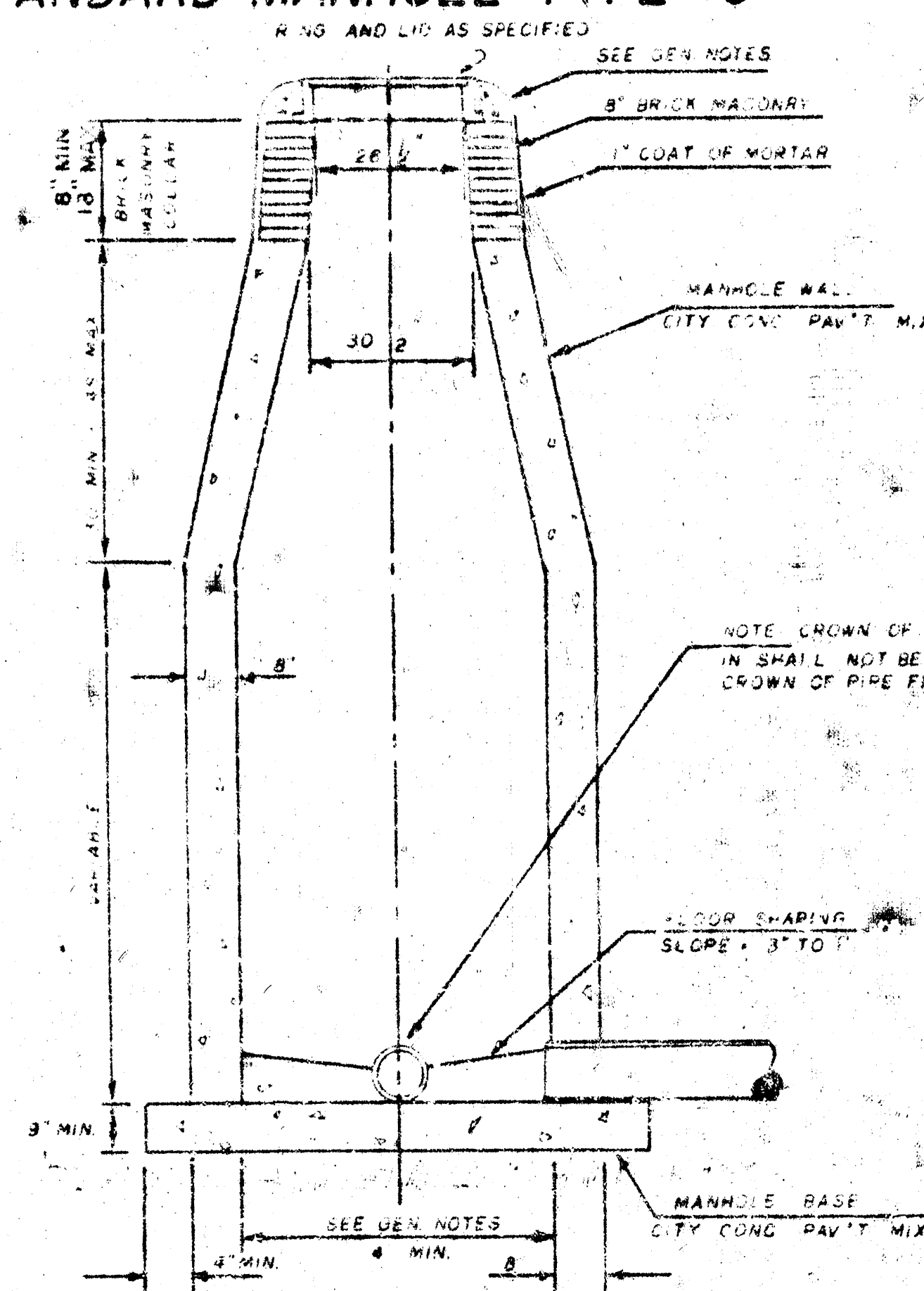
SEWER APPURTENANCES DETAILS

ADOPTED AS STANDARD DESIGN

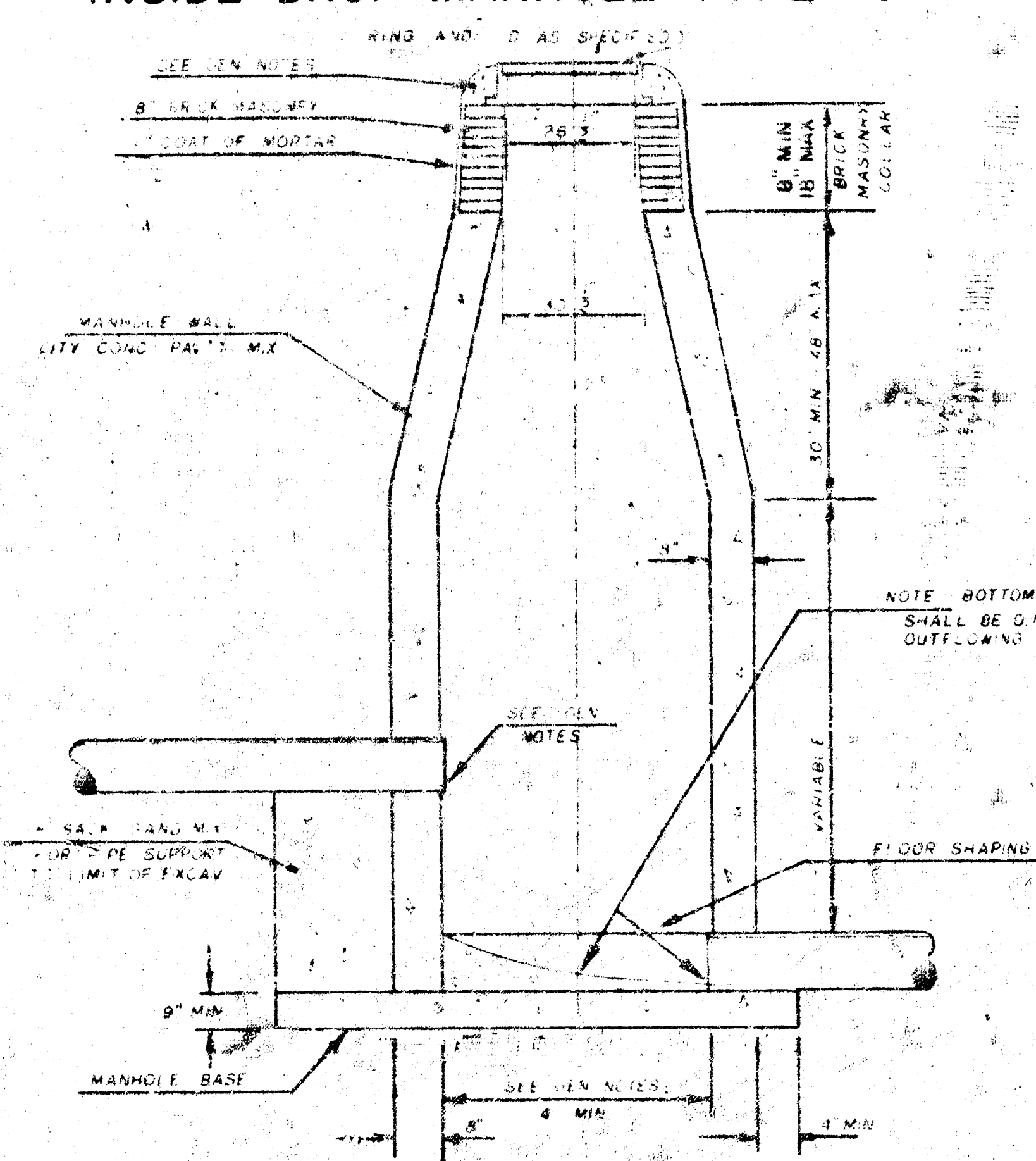
BY

City of Wichita, Kansas

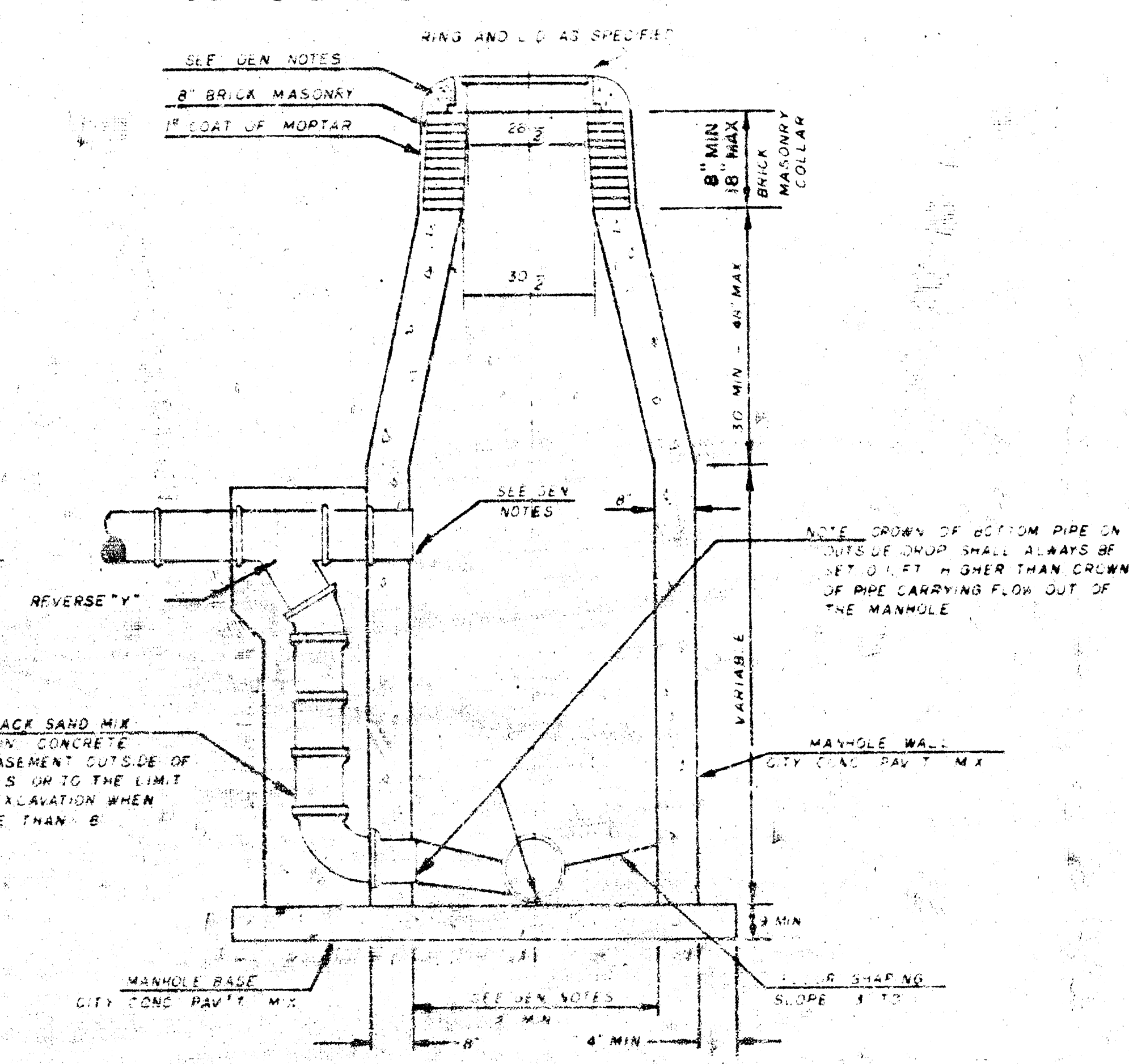
STANDARD MANHOLE TYPE "C"



INSIDE DROP MANHOLE TYPE "C"



OUTSIDE DROP MANHOLE TYPE "C"



GENERAL NOTES

1. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE WALLS AND BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADJUSTMENT. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. TYPE "C" MANHOLES CAN BE CONSTRUCTED ONLY WHERE PIPE SIZES ARE 8" OR SMALLER. THE INSIDE DIAMETER OF TYPE "C" MANHOLES SHALL BE 4'. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
2. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASE. REINFORCING STEEL SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. REINFORCING STEEL SHALL BE PLACED 2" ABOVE THE BOTTOM OF THE MANHOLE BASE. COST OF FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
3. AN OPENING SHALL BE CUT IN THE MANHOLE WALL FOR THE UPPER INLET PIPE FOR INSIDE AND OUTSIDE DROP MANHOLES. THE UPPER INLET PIPE SHALL BE DROUGHT INTO THIS OPENING WITH NON-SHINK GROUT. THE EXTERIOR OF THIS COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED ASTHINGOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT.
4. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF-CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY

THE DRAWING. MANHOLE FLOORS SHALL HAVE SLOPE OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLE SHALL HAVE THE TOP HALF REMOVED TO NEAR LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.

5. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE GRADED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN CLAY PIPE IS USED, THE GRADE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. THE GRADE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF GRADE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
6. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.

7. THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 4' FOR INFLOWING PIPES 12" OR SMALLER AND 2' FOR INFLOWING PIPES LARGER THAN 12". THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
8. STANDARD MANHOLES TYPE "C" AND STANDARD INSIDE DROP MANHOLES TYPE "C" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES TYPE "C" SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.