

PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	1985	1	4

BUREAU OF PUBLIC SERVICES

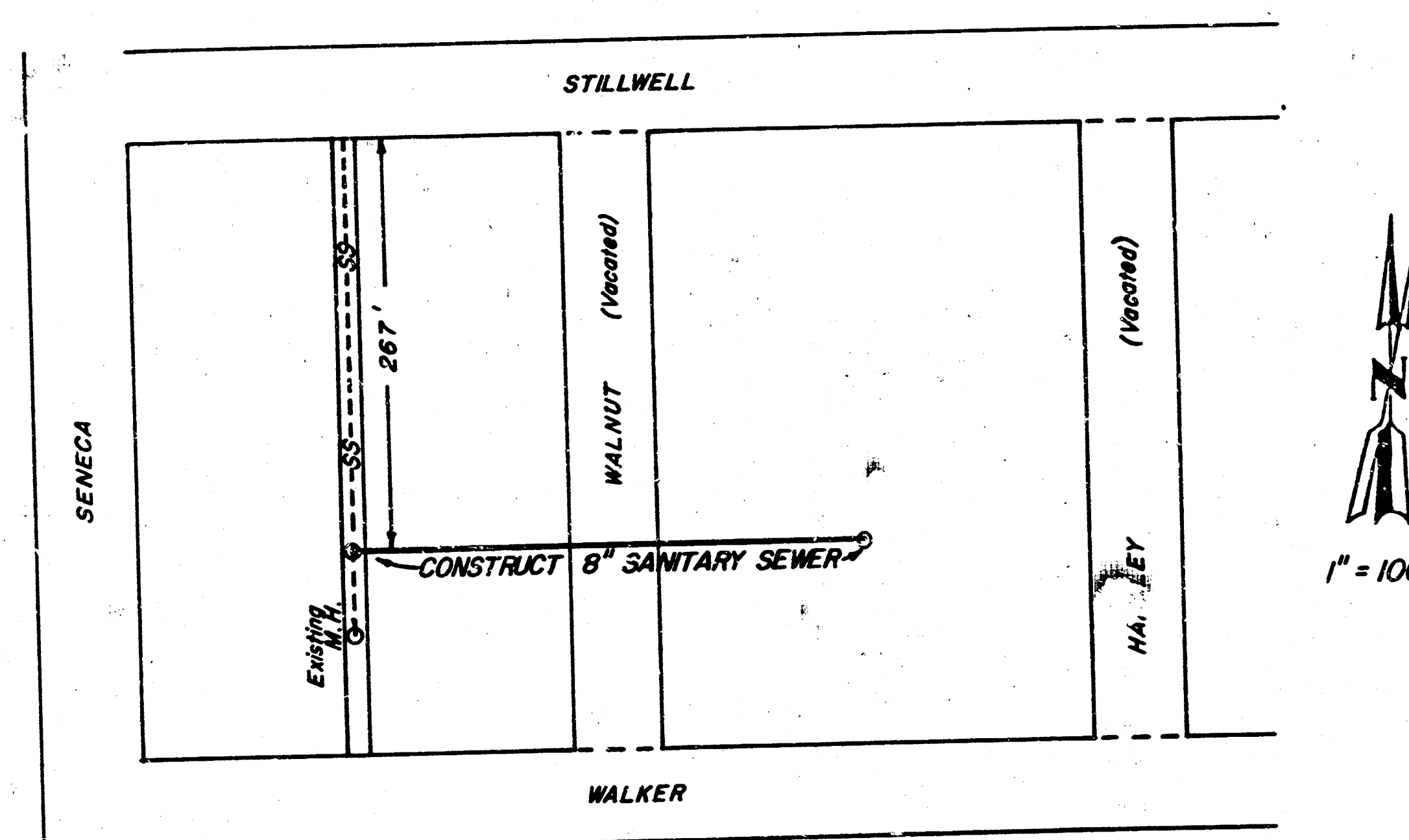
INDEX OF SHEETS

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SHEET NO. 2	PLAN AND PROFILE
SHEET NO. 3	TYPE "A" MANHOLE
SHEET NO. 4	TYPE "A" SPECIAL SHALLOW MANHOLE



SANITARY SEWER IMPROVEMENT COUNTY YARD AT SENECA AND STILLWELL

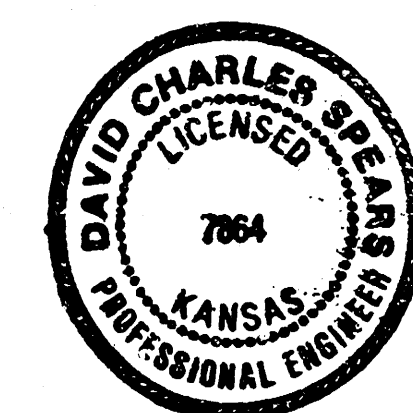
CITY PROJECT #468-76-245-80001-000-000-021



APPROVED AS NOTED
By CITY ENGINEER OF WICHITA
Sanitary Sewers *OK 6/13/85*
Storm Sewers _____
Driveway Approaches _____

NOTE TO CONTRACTOR

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



APPROVED:

David C. Spear
COUNTY ENGINEER / DIRECTOR OF PUBLIC SERVICES
DATE: June 13, 1985

APPROVED:

Donald B. Dragg 6/13/85
CHAIRMAN
BOARD OF COUNTY COMMISSIONERS

FILED:

FILED IN THE OFFICE OF
THE SEDGWICK COUNTY CLERK
Don Wright 6/13/85
COUNTY CLERK DATE:

PLANS PREPARED BY:

DATE: _____

APPROVED: DATE:

DATE: _____

CONVENTIONAL SIGNS

WIRE FENCE	—+—+—+—
HEDGE ROW	— — — — —
RAILROAD	—+—+—+—+—
SURVEY LINE	—9—100—
RIGHT OF WAY	—+—+—+—+—
TELEPHONE POLE	— —
POWER POLE	— —
COMB. POWER & TELEPHONE	— —
TOWNSHIP LINE	—+—+—+—+—
CONSTRUCTION LIMITS	—+—+—+—+—
GUARD FENCE	—+—+—+—+—
TREES	—(X)—(X)—(X)—

NET LENGTH OF PROJECT _____ FT. _____ MILES
NET LENGTH OF BRIDGES _____ FT. _____ MILES
NET LENGTH OF ROAD _____ FT. _____ MILES
EXCEPTIONS _____ FT. _____ MILES
ADDITIONS _____ FT. _____ MILES
GROSS LENGTH OF PROJECT _____ FT. _____ MILES

COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS		1985	2	4

GENERAL NOTES

- Construction Staking and Inspection Services will be provided by Sedgwick County.
- The 4 inch line shall not be constructed until the 8 inch line has passed the Air Test. The Contractor shall obtain a permit from the Central Inspection Division, City of Wichita, Kansas, prior to construction of the 4 inch line. The cost of obtaining the permit shall be considered subsidiary to the bid item "4 inch P.V.C. Sanitary Sewer Pipe."
- Removal of and replacement of existing pavement shall be considered subsidiary to the bid item "Manhole - Type A." Asphalt pavement shall be replaced with concrete pavement per City of Wichita Specifications.
- All trenches shall be backfilled per City of Wichita Specifications for backfill within alley or street right-of-way. The top six inches of trenches in gravelled areas shall be backfilled with AS-1 aggregate.
- Removal and disposal of the retaining wall shall be considered subsidiary to the bid item "8 inch P.V.C. Sanitary Sewer Pipe."
- All surplus excavated material shall be removed from the County Yard and disposed of by the Contractor. This work shall be considered subsidiary to the bid item "8 inch P.V.C. Sanitary Sewer Pipe" and no additional payment will be made for this work.
- The Contractor shall make arrangements with the Department of Operations and Maintenance, City of Wichita, Kansas, for Air Testing and Television Inspection prior to construction. The Contractor shall be responsible for all costs incurred by the City of Wichita for Air Testing and Television Inspection, regardless of the number of tests or inspections required.

SUMMARY OF QUANTITIES

ITEM	QUANTITY	UNITS
8 inch P.V.C. Sanitary Sewer Pipe	350	l.f.
4 inch P.V.C. Sanitary Sewer Pipe	44	l.f.
Manhole - Type A	1	ea.
Manhole - Special Shallow Type A	1	ea.
Air Testing & Television Inspection	1	L.S.

PLAN	DATE	BY	CHKD
NO. 1	6-85	JEW	

PROFILE	DATE	BY	CHKD
NO. 1	6-85	JEW	

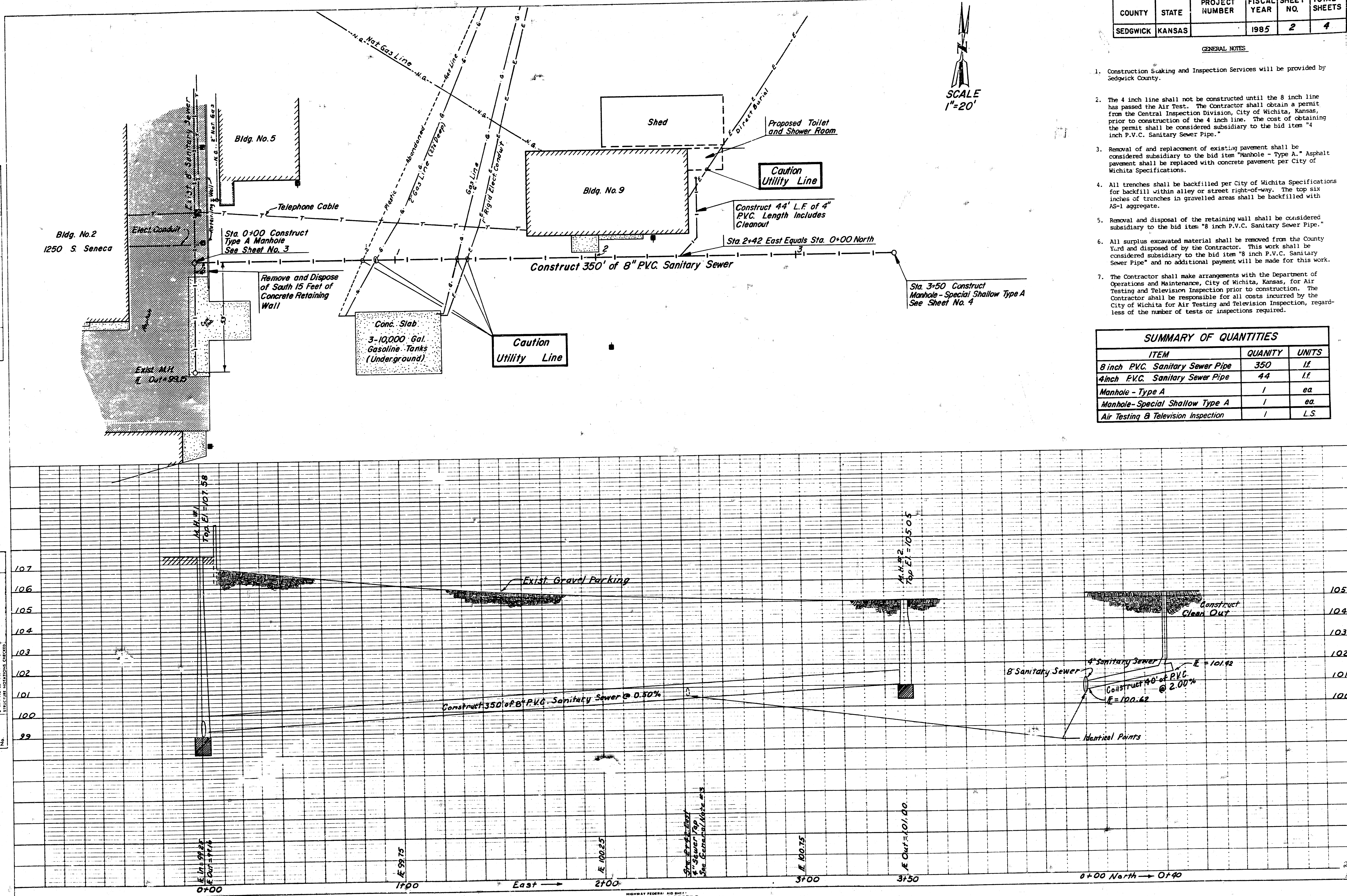


PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE
PRINTED IN U.S.A.

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AVAILABLE COPY

SEWER APPURTENANCES DETAILS

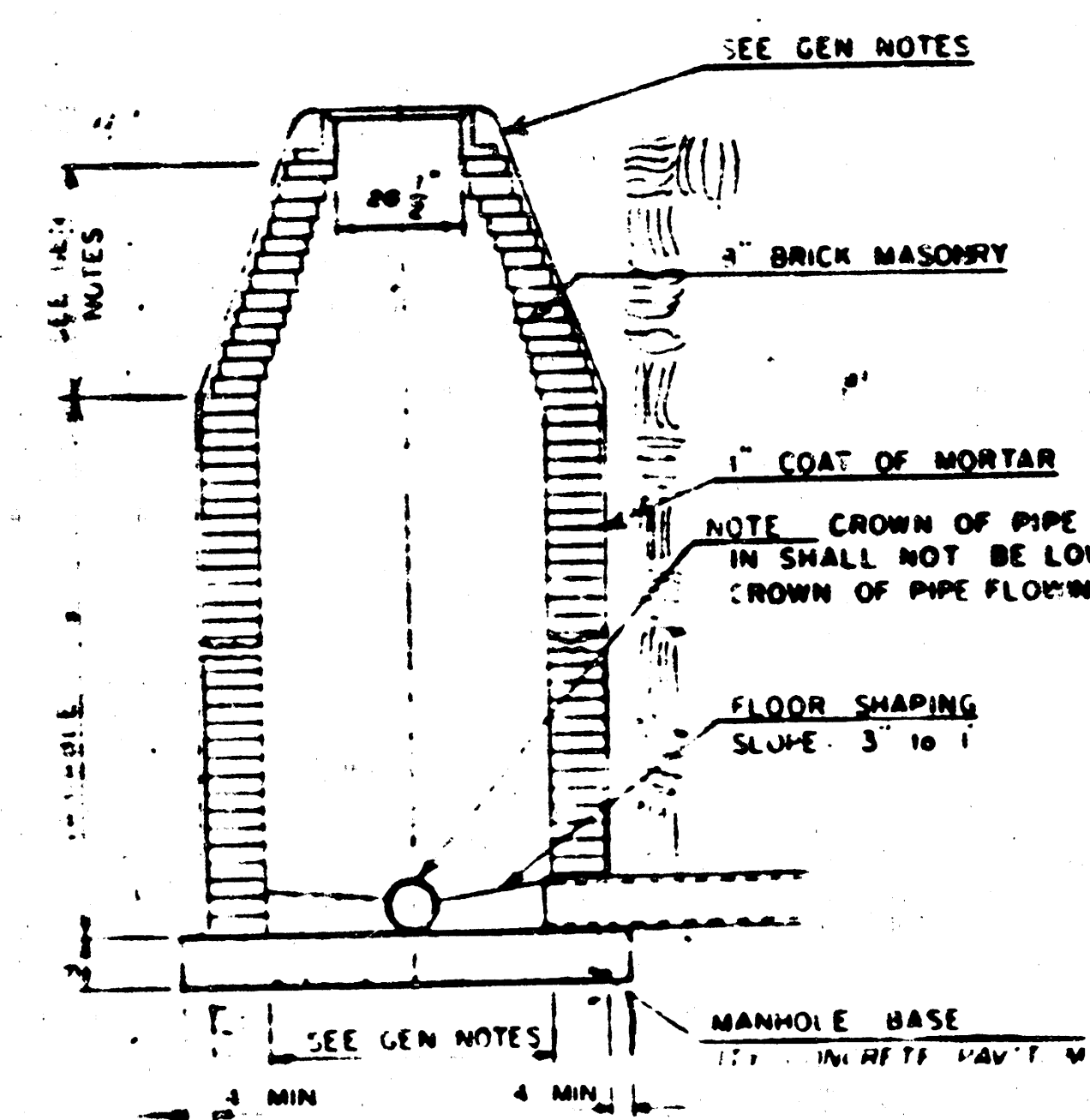
ADOPTED AS STANDARD DESIGN
BY

CITY of WICHITA, KANSAS

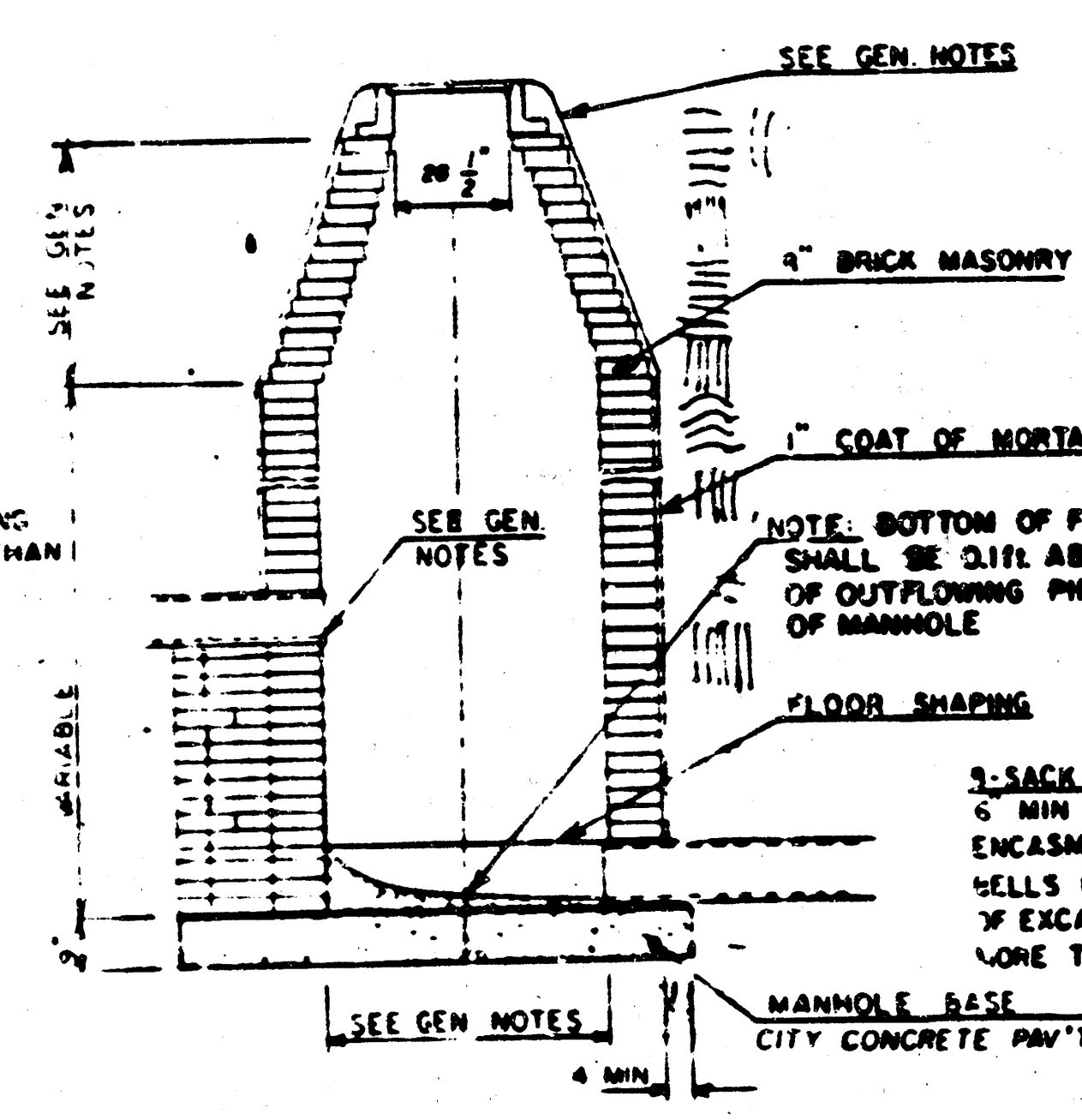
REVISED SEPTEMBER 1980
REVISED DECEMBER 1981

COUNTY	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
SEDGWICK	KANSAS		1985	3	4

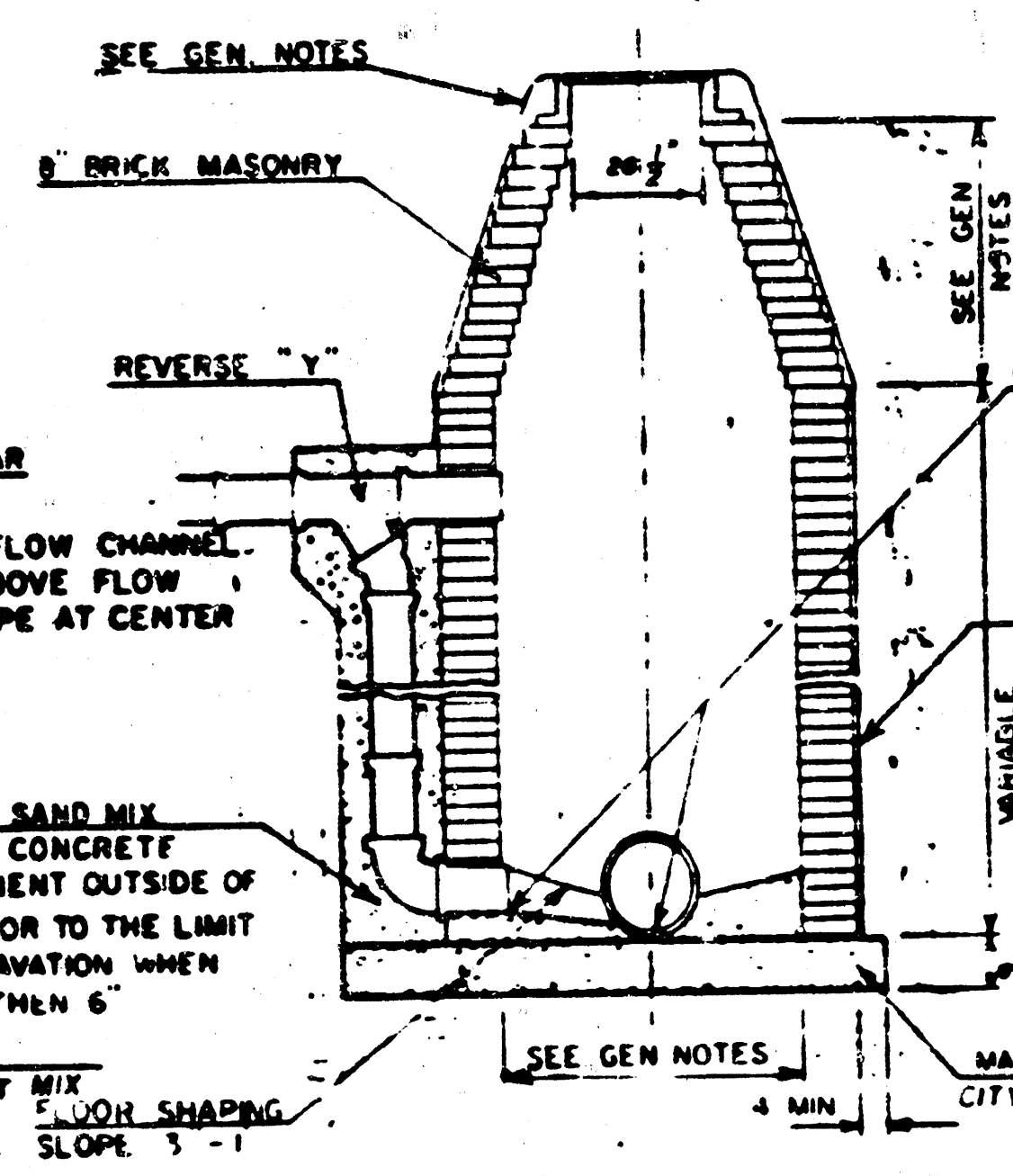
TYPE "A" MANHOLE



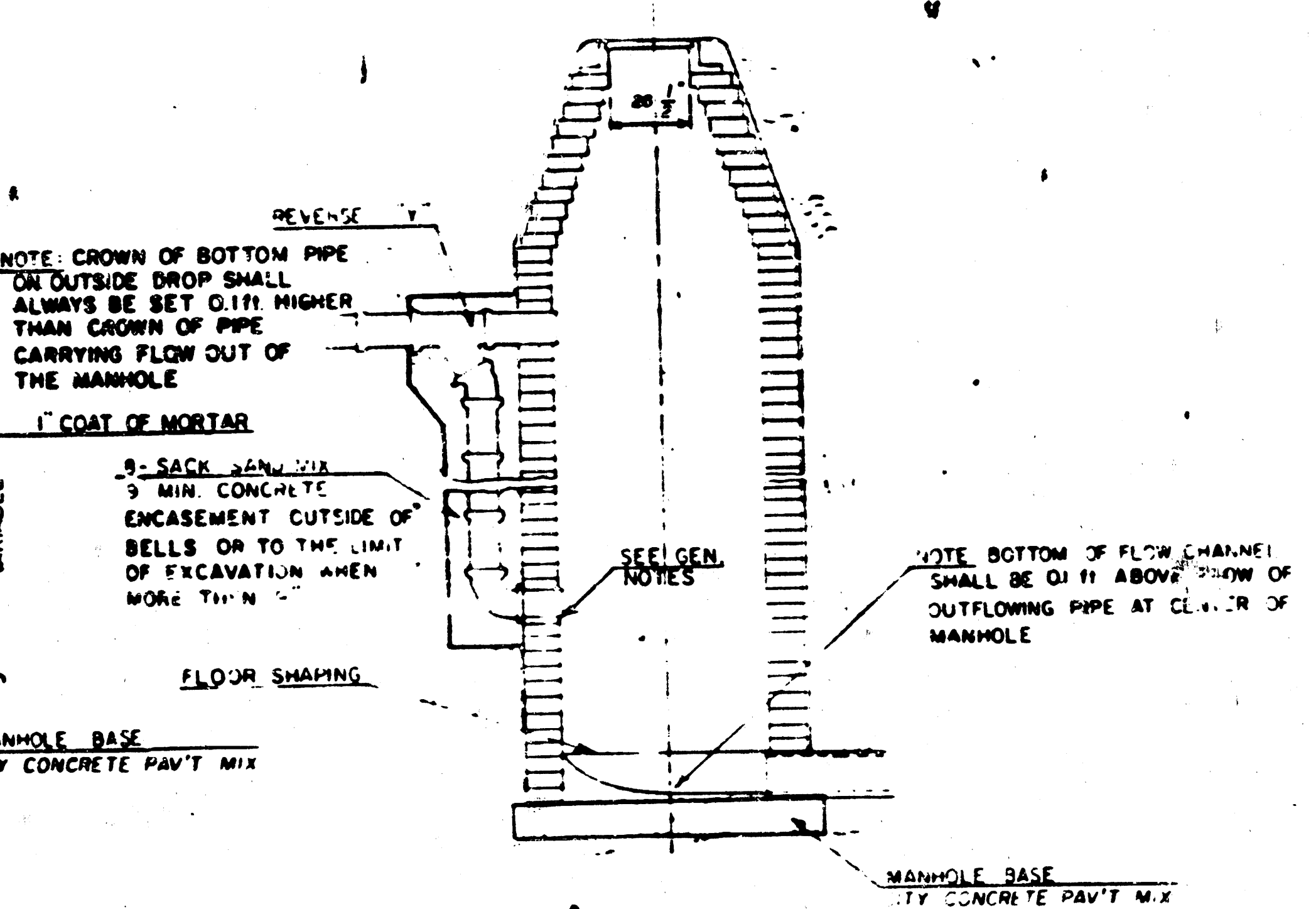
TYPE "A" INSIDE DROP MANHOLE



TYPE "A" OUTSIDE DROP MANHOLE



DETAIL OF OUTSIDE DROP
CONSTRUCTED ON EXISTING MANHOLE



GENERAL NOTES

MANHOLE USED IN CONCRETE CONSTRUCTION SHALL OBTAIN A GRADE OF 18 INCHES ABOVE FINISHED GRADE. CONCRETE USED IN MANHOLE SHALL COMPLY TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY COMBUSTIBLE LAYMENT MIX WITHOUT AIR ENTRAINING AGENTS. MANHOLE SHALL BE CONSTRUCTED TO A MINIMUM OF 18 INCHES IN DIAMETER. MANHOLE SHALL BE CONSTRUCTED IN IMPAVED AREAS. TYPE "A" MANHOLES CAN BE USED ON WORKS UP TO 10' IN DEPTH WHEN THE MANHOLE IS NOT LOCATED WITHIN 18" OF A STREET PAVEMENT. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 18" SHALL HAVE AN INSIDE DIAMETER OF 18". MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 18" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 24". MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 30". MANHOLES HAVING A DIAMETER OF 18" SHALL HAVE MANHOLE WALLS OF 12". MANHOLES HAVING A DIAMETER OF 24" SHALL HAVE MANHOLE WALLS OF 16". COMPLETED MANHOLES SHALL BE WITHOUT LEAKS AND WATER TIGHT.

REINFORCING STEEL SHALL BE INSTALLED IN THE SAMPLE BASE AND SHALL
CONSIST OF NO. 4 BARS PLACED IN 12" SPACING IN BOTH DIRECTIONS. THE
SAMPLE BASE REINFORCEMENT SHALL BE PLACED 1" ABOVE THE BOTTOM OF THE
SAMPLE BASE. ALL JOINTS FOR REINFORCING STEEL SHALL BE LOCATED IN THE
SAMPLE BASE. REINFORCING STEEL SHALL BE ENCLOSED IN 1" OF CONCRETE ABOVE THE SAMPLE.

[illegible]

4. THE FLANGES OF ALL MANHOLES SHALL BE SHAFED WITH FIVE CHANNELS SUCH THAT THE MANHOLES WILL BE SELF-CLEANING AND FREE OF AREAS WHERE SOLID DEBRIS COULD BE DEPOSITED AS SHOWN BY FLOWING FLAMES THROUGH THE MANHOLE FROM THE TOP OF THE PIPE TO THE BOTTOM. THE CHANNELS SHALL BE SHAFED TO THE POINT WHERE THE BOTTOM HALVES OF THE INFLUING PIPES AND THE OUTFLUING PIPE AS SHOWN BY THE DRAWINGS SHALL BE THE SAME FOR ALL MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE INDICATED AS INDICATED BY THE DRAWINGS. DRAWINGS SHALL BE SUBMITTED TO THE DISTRICT ENGINEER FOR APPROVAL. THE POINT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS POINTED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REINFORCED WITH MAT LINES FOR THE FULL EXPOSED DIAMETER OF THE MANHOLE. FLOWING CHANNELS SHALL BE LAYED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.

1. PIPES INSTALLED WITHIN THE EXCAVATION SHALL FOR THE MANHOLE SHALL BE GRADED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN CLAY PIPE IS USED, THE CRADLE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. THE CRADLE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE PERMANENCY OF THE JOINT. COST OF CRADLE WITHIN MANHOLE EXCAVATION IS TO BE PAID BY JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE FOR THE MANHOLE.

7. LAMBLE LOWER CASTINGS AND LAMBLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.

2. THE VERTICAL DROP IN ANY ONE DROP SANITARY SHALL NOT EXCEED 4' FOR INFLUWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLUWING PIPES LARGER THAN 12". THE CROWNS OF INFLUWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.

4. STANDARD BARBOLES TYPE "A" AND STANDARD GROUP BARBOLES TYPE "A" (ALL BEING AS STANDARD BARBOLES) ARE OF TYPE AND DIAMETER INDICATED. OTHER GROUP BARBOLES TYPE "A" WILL BE OF A STANDARD SINGLE GROUP BARBOLES FOR THE TYPE AND DIAMETER INDICATED. ALL OTHER DIAMETERS WILL BE 1" UNLESS OTHERWISE SPECIFIED.

