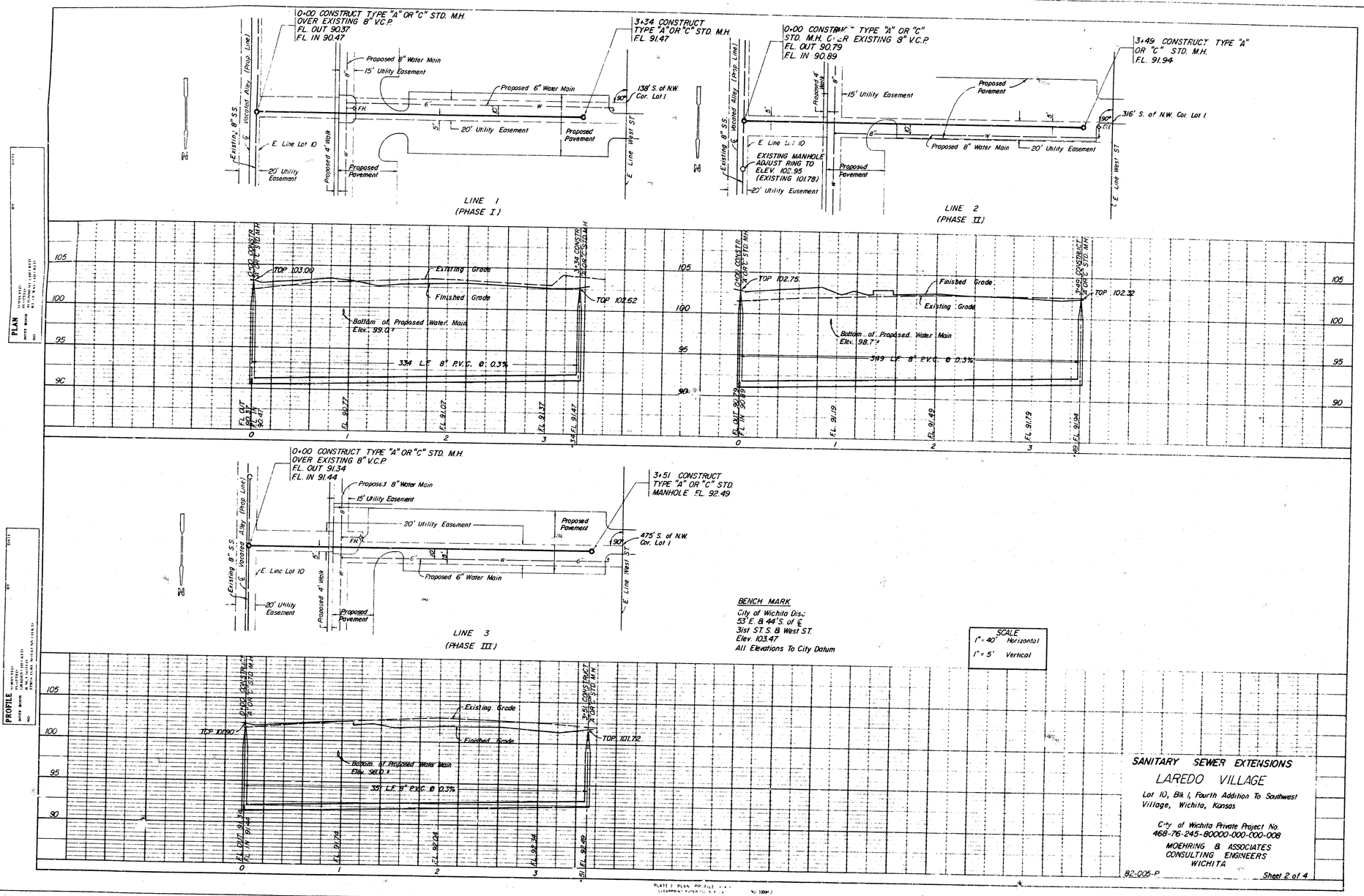

BENCH MARK
City of Wichita Disc
53' E. & 44' S. of ℄
31st ST. S. & West ST.
Elev. 103.47
All Elevations To City Datum

SCALE
1" = 40' Horizontal
1" = 5' Vertical

SANITARY SEWER EXTENSIONS
LAREDO VILLAGE

Lot 10, Blk 1, Fourth Addition To Southwest Village, Wichita, Kansas

City of Wichita Private Project No.
468-76-245-80000-000-000-008

MOEHRING & ASSOCIATES
CONSULTING ENGINEERS
WICHITA

82-005-P

Sheet 2 of 4

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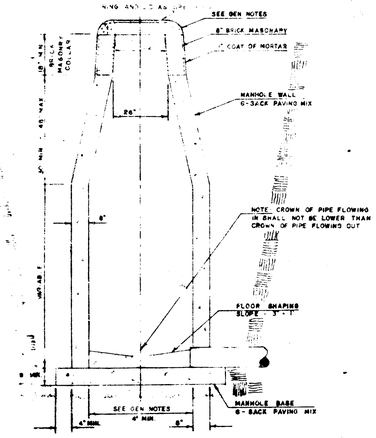
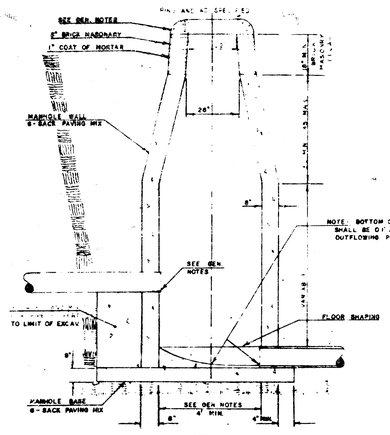
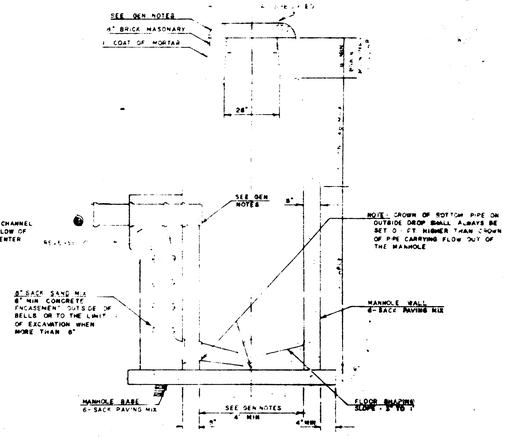
STANDARD MANHOLE, TYPE "C"

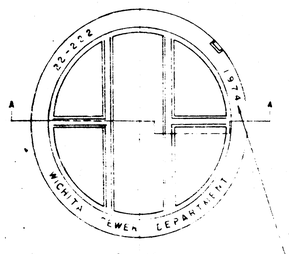


INSIDE DROP MANHOLE, TYPE "C"

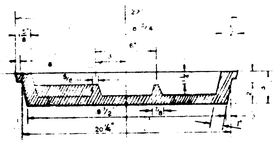


OUTSIDE DROP MANHOLE, TYPE "C"

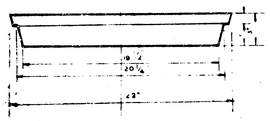




MANHOLE COVER

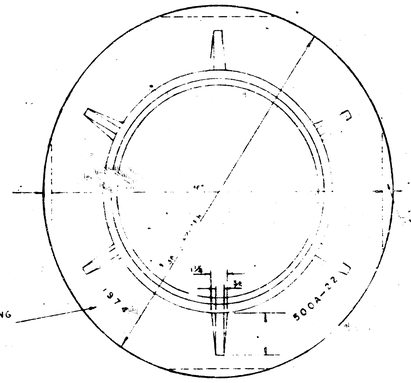


MANHOLE COVER

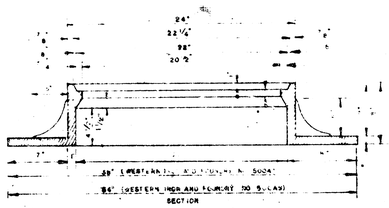


MANHOLE COVER

YEAR CASTING IS MADE



MANHOLE RING



MANHOLE RING

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 S[illegible] CONSTRUCTION USING 6 SACKS OF CEMENT PER CUBIC YARD WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR [illegible] USED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWING WHEN MANHOLES ARE CONSTRUCTED IN SWAMPED AREAS. [illegible] CAN BE CONSTRUCTED ONLY WHERE PIPE SIZES ARE 8" OR SMALLER. THE INSIDE DIAMETER OF TYPE C MANHOLES SHALL BE 4'. [illegible] METED 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 LOCATED 6" 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. [illegible] SHALL BE SET IN THE MANHOLE WALL FOR TWO SEWER INLET PIPE FOR FUSION AND OUTSIDE DROP MANHOLES. THE UPPER [illegible] SHALL BE SET TO CONFORM WITH HOR-SETTING SHEET. THE EXTERIOR OF THIS COMPLETED CONNECTION SHALL [illegible] APPROVED [illegible] SEAL THAT THE CONNECTION WILL BE WATER TIGHT.

4. THE FIGURES 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. [illegible] SHALL CONFORM TO THE SIZE AND THE BOTTOM SLOPES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS EXCEPT FOR TYPICAL DROP MANHOLES. FLOW CHANNELS FOR TYPICAL DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO HEAT LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL BOTH BE SHAPED AROUND THE [illegible] HALF OF THE PIPE, WHICH FORM THE FLOW CHANNELS.

5. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED 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 TO A VERTICAL EDGE WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS OUTSIDE MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.

6. [illegible] CIRCUMFERENCE OF MANHOLE COVERS, THE INSIDE CIRCUMFERENCE OF MANHOLE RINGS, AND THE SEATING FACES [illegible] THE RING SHALL BE MACHINED TO THE DIMENSIONS INDICATED SO THE MANHOLE COVER WILL FIT INTO THE [illegible] THE CLEARANCE BETWEEN THE COVER AND THE RING WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE [illegible] THE SEATING SURFACES BETWEEN THE RING AND COVER SHALL BE MACHINED SUCH THAT THESE SURFACES WILL MAKE [illegible] AROUND THE CIRCUMFERENCE WITHOUT ROCKING. A PICK HOLE SHALL BE FABRICATED AT ONE LOCATION IN THE OUTER [illegible] TO FACILITATE REMOVAL OF THE COVER. THE PICK HOLE SHALL BE CONSTRUCTED IN SUCH A MANNER THAT WILL PREVENT AN OPENING THROUGH WHICH SEWAGE COULD ESCAPE FROM THE MANHOLE.

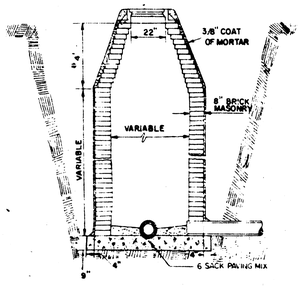
7. THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL BE [illegible] FOR INFLOWING PIPES SMALLER THAN 12", THE CENTER OF INFLOWING PIPES SHALL [illegible] FOR INFLOWING PIPES LARGER THAN 12". THE CENTER OF INFLOWING PIPES SHALL [illegible] THE CENTER OF THE OUTFLOWING PIPE.

8. STANDARD MANHOLES TYPE C AND STANDARD [illegible] DROP MANHOLES TYPE C SHALL BE USED AS STANDARD MANHOLES FOR SEWER LINES [illegible] PIPE DIAMETER INDICATED. OUTSIDE DROP MANHOLES TYPE C SHALL BE USED AS STANDARD [illegible] FOR SEWER LINES [illegible] THE PIPE DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.

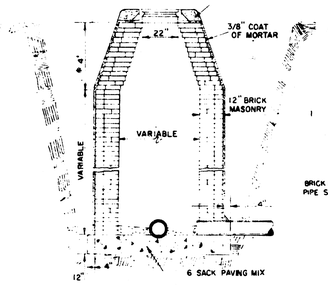
REVISED 4-4-60

DETAILS OF
SEWER APPURTENANCES
ADOPTED AS STANDARD DESIGN
BY
ENGINEERING DIVISION
CITY OF WICHITA, KANSAS
1974

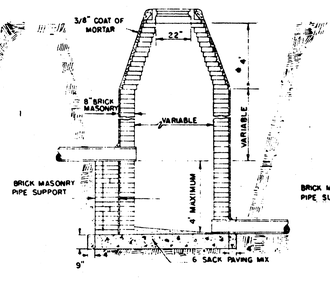
FILMED FROM THE BEST AVAILABLE COPY



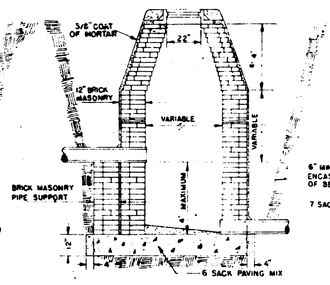
STANDARD MANHOLE
TYPE "A"



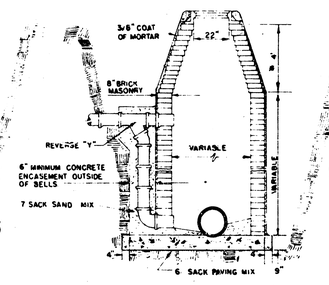
STANDARD MANHOLE
-TYPE "B"



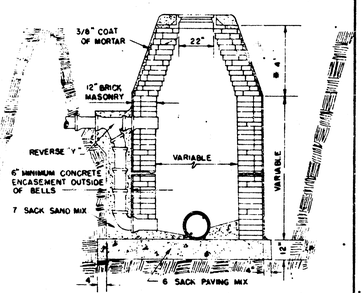
DROP MANHOLE
TYPE "A"



DROP MANHOLE
TYPE "B"



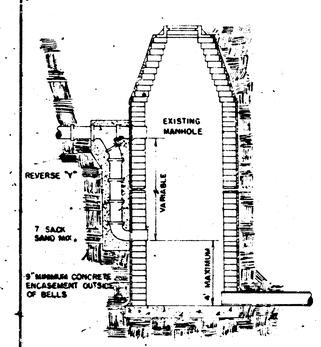
OUTSIDE DROP MANHOLE
TYPE "A"



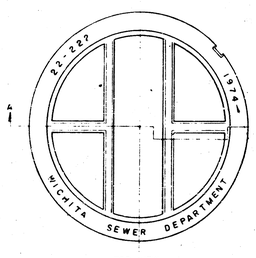
OUTSIDE DROP MANHOLE
TYPE "B"

* DRAW = 6' ON 5' DIA. M.H.

NOTE : REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES 6" ABOVE THE BOTTOM. REINFORCING STEEL SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE COST OF REINFORCING STEEL IS TO BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.

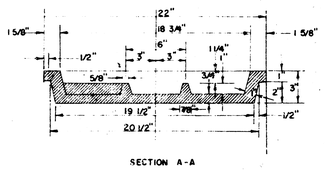


DETAIL OF DROP STACK
FOR EXISTING MANHOLE GROUND WATER



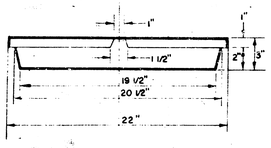
TOP VIEW

MANHOLE COVER
WEIGHT 110 LBS.



SECTION A-A

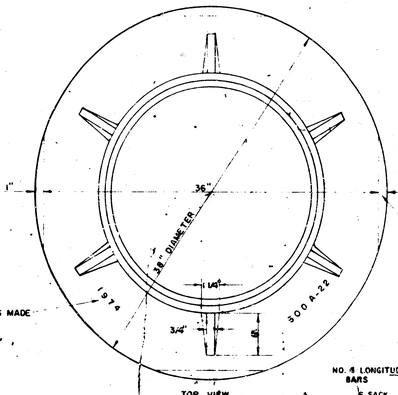
MANHOLE COVER



SIDE VIEW

MANHOLE COVER

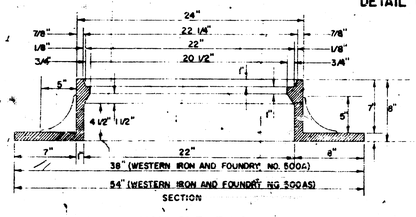
YEAR CASTING IS MADE



TOP VIEW

MANHOLE RING
WEIGHT 325 LBS. RING NO. 500A
WEIGHT 800 LBS. RING NO. 500AS

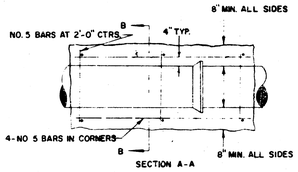
THIS PORTION OF FLANGE MAY BE OMITTED



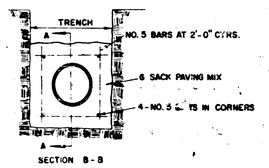
SECTION

MANHOLE RING

OUTSIDE CIRCUMFERENCE OF COVER AND THE INNER FACE AND SEAT OF RING TO BE MACHINE FIT.



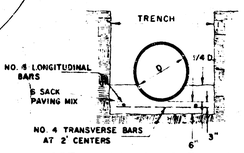
SECTION A-A



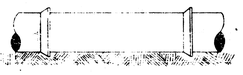
SECTION B-B

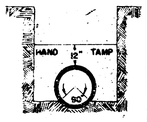
REINFORCED CONCRETE ENCASEMENT

NOTE : CONCRETE ENCASEMENT AND CONCRETE CRADLE SHALL BEGIN AND END AT A JOINT WHEN CLAY PIPE IS USED.



DETAIL OF CONCRETE CRADLE





ORDINARY BEDDING METHOD
STORM SEWER PIPE

GENERAL NOTES

- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD.
- STANDARD MANHOLES TYPE 'A' OR TYPE 'B' AND STANDARD DROP MANHOLES TYPE 'A' OR TYPE 'B' SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE. MANHOLES WITH PIPE SIZES LARGER THAN 24" SHALL BE 5' DIAMETER.
- THE FLOORS OF ALL MANHOLES SHALL BE SHAPED TO INCREASE HYDRAULIC EFFICIENCY USING 8 SACK SAND MIX CONCRETE.
- PIPES INSTALLED WITHIN THE MANHOLE EXCAVATION SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. COST OF CRADLE WITHIN MANHOLE EXCAVATION SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLE. CRADLE SHALL EXTEND TO FIRST JOINT OUTSIDE OF MANHOLE WHEN CLAY PIPE IS USED.

REVISED 4-13-77

DETAILS OF
SEWER APPURTENANCES
ADOPTED AS STANDARD DESIGN
BY
ENGINEERING DIVISION
CITY OF WICHITA, KANSAS

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SANITARY SEWER EXTENSIONS

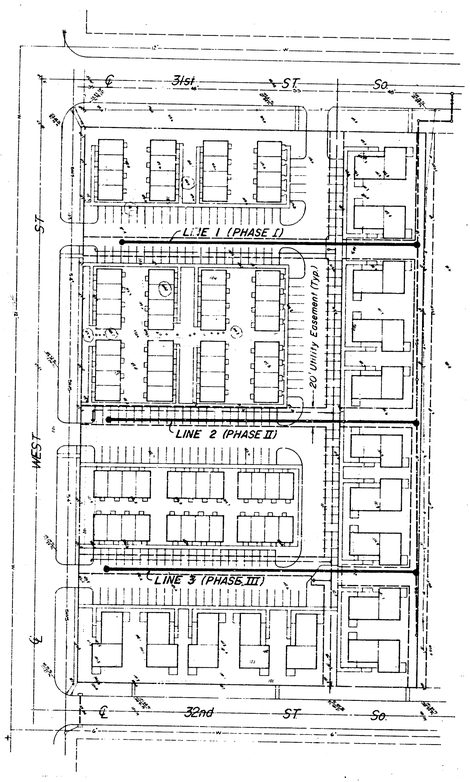
For

LAREDO VILLAGE

Lot IC, Block I, Fourth Addition
To Southwest Village
Wichita, Kansas

City of Wichita Private Project No. 468-76-245-80000-000-000-008

TO BE CONSTRUCTED IN THREE PARTS



INDEX

Sheet	1	AREA PLAN
	2	PLAN-PROFILE
	3-4	APPURTENANCES

MOEHRING & ASSOCIATES
CONSULTING ENGINEERS
WICHITA

April 1982

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