

SANITARY SEWER EXTENSIONS

CENTRAL AVENUE PLAZA

CITY OF WICHITA

M. E. LINDEBAK, CITY ENGINEER

PROJECT NO. 468-76-245-80000-000-000-008

DATE: AUGUST, 1983

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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 prepay the City of Wichita for all costs of inspection.

9-30-83

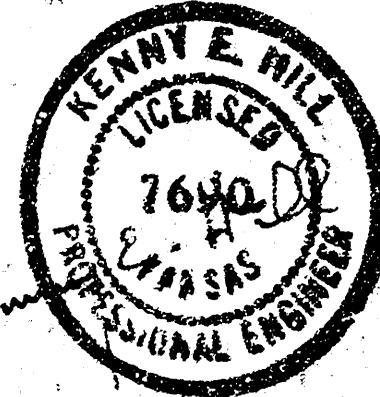
APPROVED AS NOTED
By CITY ENGINEER OF WICHITA

Sanitary Sewers

Storm Sewers

Driveway Approaches

THE CONTRACTOR WILL PROVIDE ALL CONSTRUCTION STAKING ON THIS PROJECT.
ALL EXCESS EXCAVATION FROM THE CONSTRUCTION OF THIS PROJECT SHALL BE BACKFILLED ON THE REAR OF LOT 3, BLOCK 2 AT THE DISCRETION OF THE OWNER.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO REESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENCED LAND SURVEYOR OR A LICENCED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.



1/8

SHEET 1 OF 8

SCALE 1"=100'



EDGEMOOR STREET

CENTRAL AVENUE PLAZA

LOT 1

LOT 2

MURDOCK

ADJUST TOP OF EXIST. MH'S
FROM ELEV. 180.9 TO 184.5

LINE NO. 1
SHEET 3

EXIST. 15" SAN. SEWER

ADJUST TOP OF EXIST. MH
FROM ELEV. 180.6 TO 184.0

LOT 3

LOT 1
BLOCK 1

BLOCK 2

LINE NO. 1
SHEET 2

ADJUST TOP OF EXIST. MH
FROM ELEV. 178.9 TO 184.0

CHRISTINE

LINE NO. 2
SHEET 4

LOT 2

LOT 4

LOT 3

CENTRAL

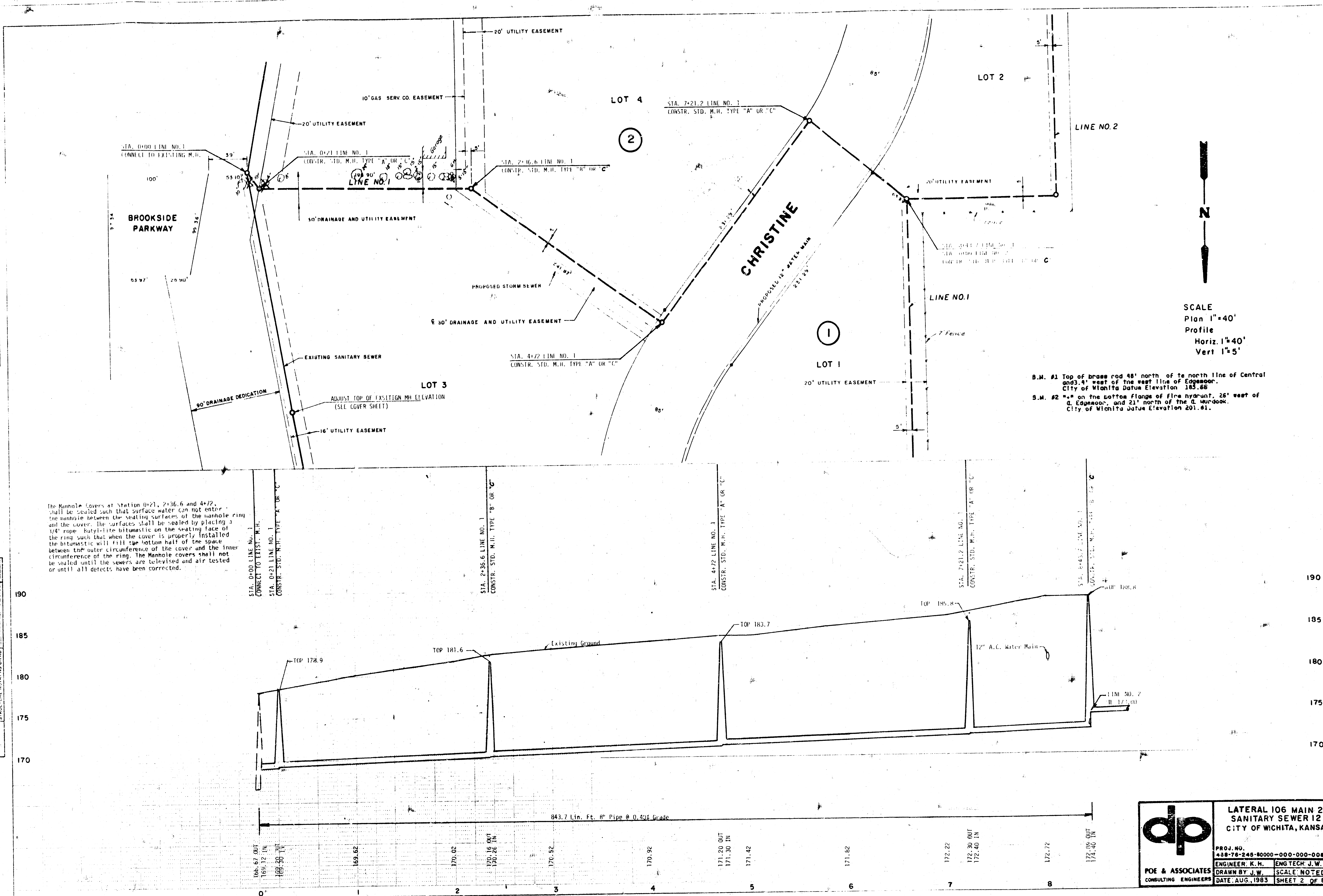
AVENUE

POE & ASSOCIATES OF KANSAS, INC.
CONSULTING ENGINEERS

PLAN	DATE
NO.	NO.

PROFILE	DATE
NO.	NO.

The Manhole covers at Station 0+21.2, 2+36.6 and 4+72.2 shall be sealed such that surface water can not enter the manhole between the seating surfaces of the manhole ring and the cover. The surfaces shall be sealed by placing a 1/4" rope - butyl-lite bitumastic on the seating face of the ring such that when the cover is properly installed the bitumastic will fill the bottom half of the space between the outer circumference of the cover and the inner circumference of the ring. The Manhole covers shall not be sealed until the sewers are televised and air tested or until all defects have been corrected.



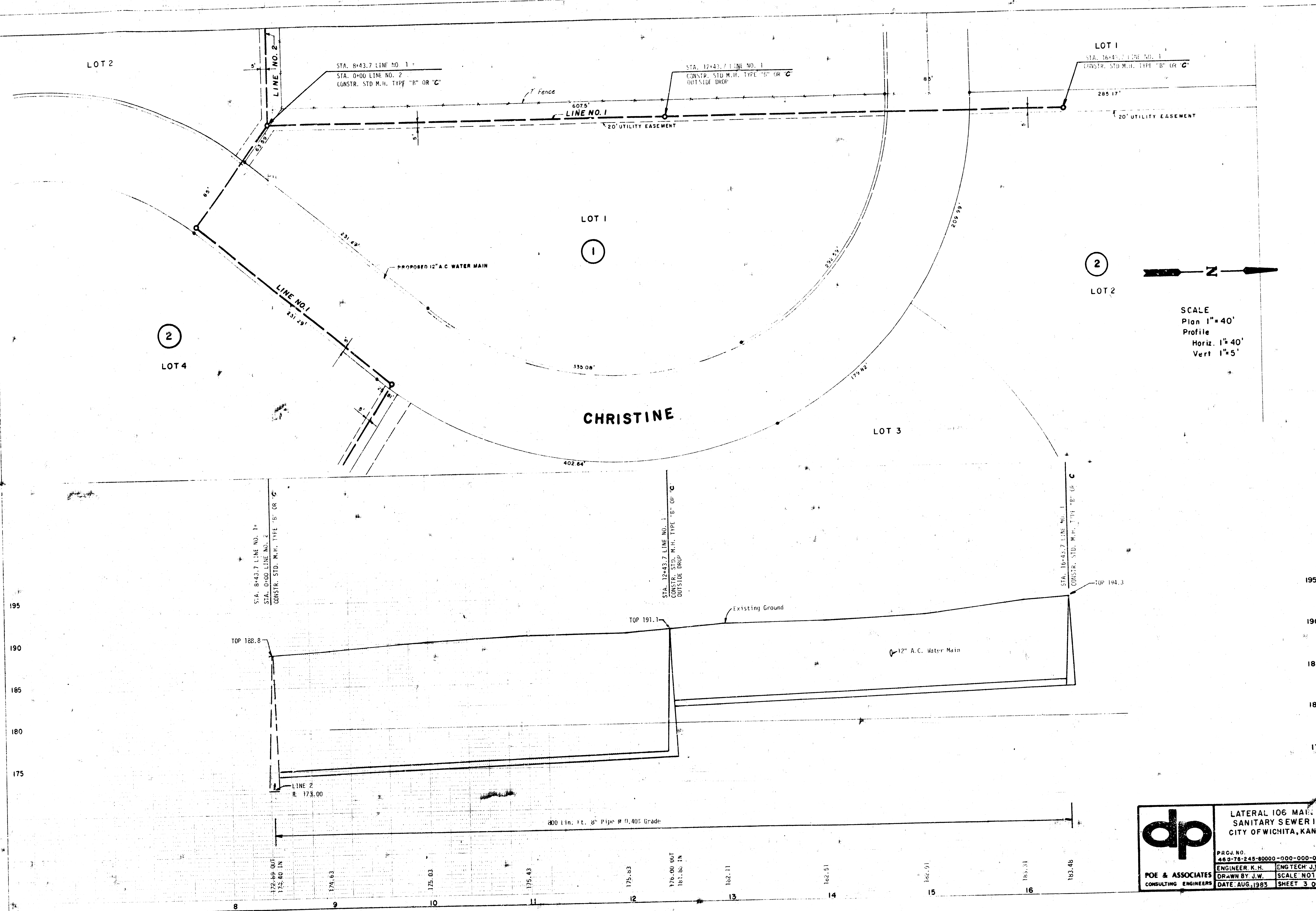
SCALE
Plan 1"=40'
Profile
Horiz. 1"=40'
Vert. 1"=5'

B.M. #1 Top of brass rod 48' north of the north line of Central and 3' west of the west line of Edgemoor. City of Wichita Datum Elevation 185.88
B.M. #2 " " on the bottom flange of fire hydrant, 25' west of Edgemoor, and 21' north of the G. Harwood. City of Wichita Datum Elevation 201.81.

dp	LATERAL 106 MAIN 2 SANITARY SEWER 12 CITY OF WICHITA, KANSAS	
	PROJ. NO. 438-76-245-80000-000-000-008	ENGINEER: K.H.
	ENGINEER: J.W.	SCALE: NOTED
	DATE: AUG. 1983	SHEET 2 OF 8

PLAN

PROFILE



SCALE
Plan 1"=40'
Profile
Horiz. 1"=40'
Vert. 1"=5'

dp

POE & ASSOCIATES
CONSULTING ENGINEERS

LATERAL 106 MAIN
SANITARY SEWER 12
CITY OF WICHITA, KANSAS

PROJ. NO.
452-76-245-80000-000-000-008

ENGINEER K.H. J.W. SCALE: NOT TO SCALE

DRAWN BY J.W. DATE: AUG. 1983 SHEET 3 OF 8

SEWER APPURTENANCES DETAILS

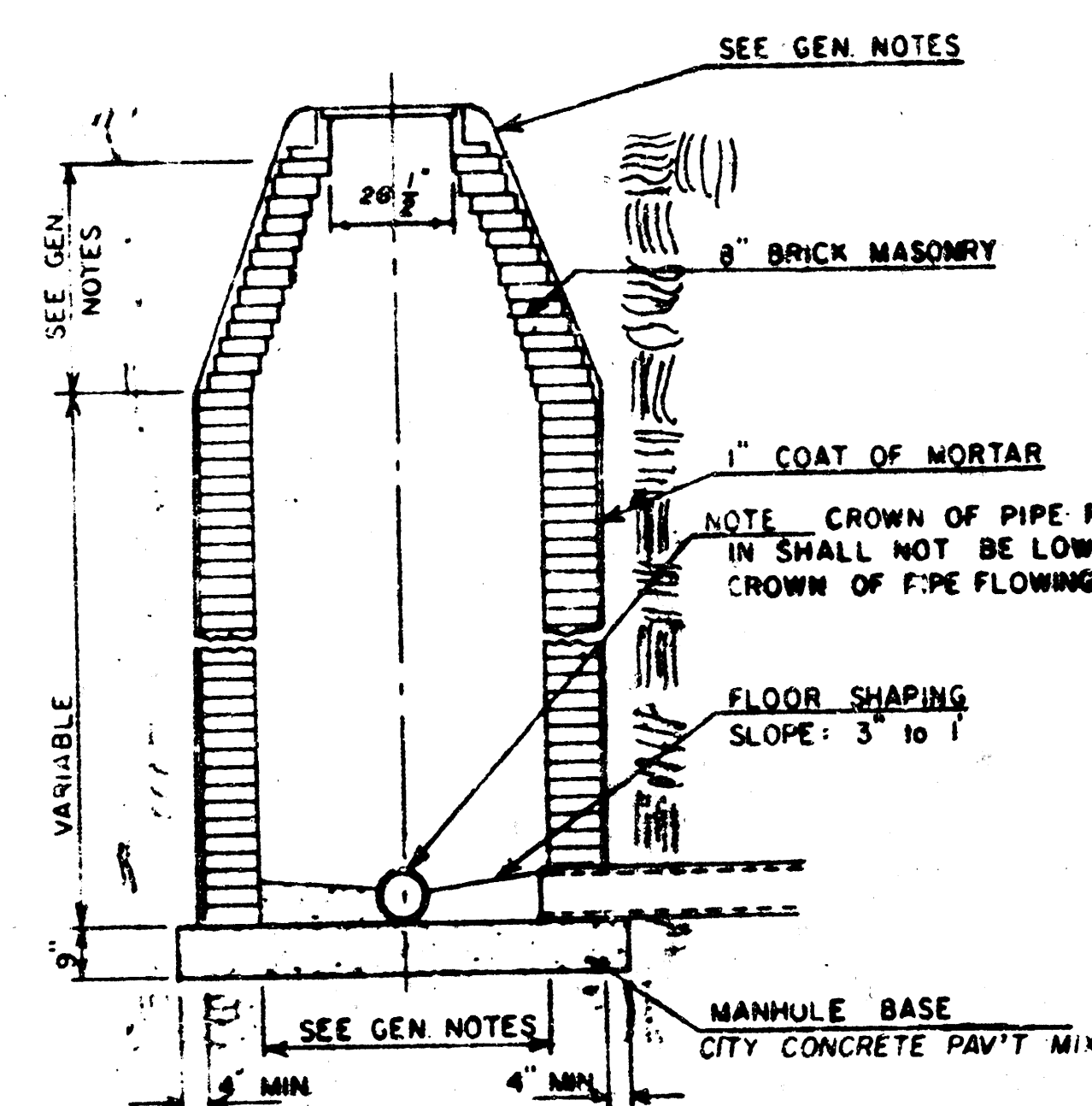
ADOPTED AS STANDARD DESIGN
BY

CITY of WICHITA, KANSAS

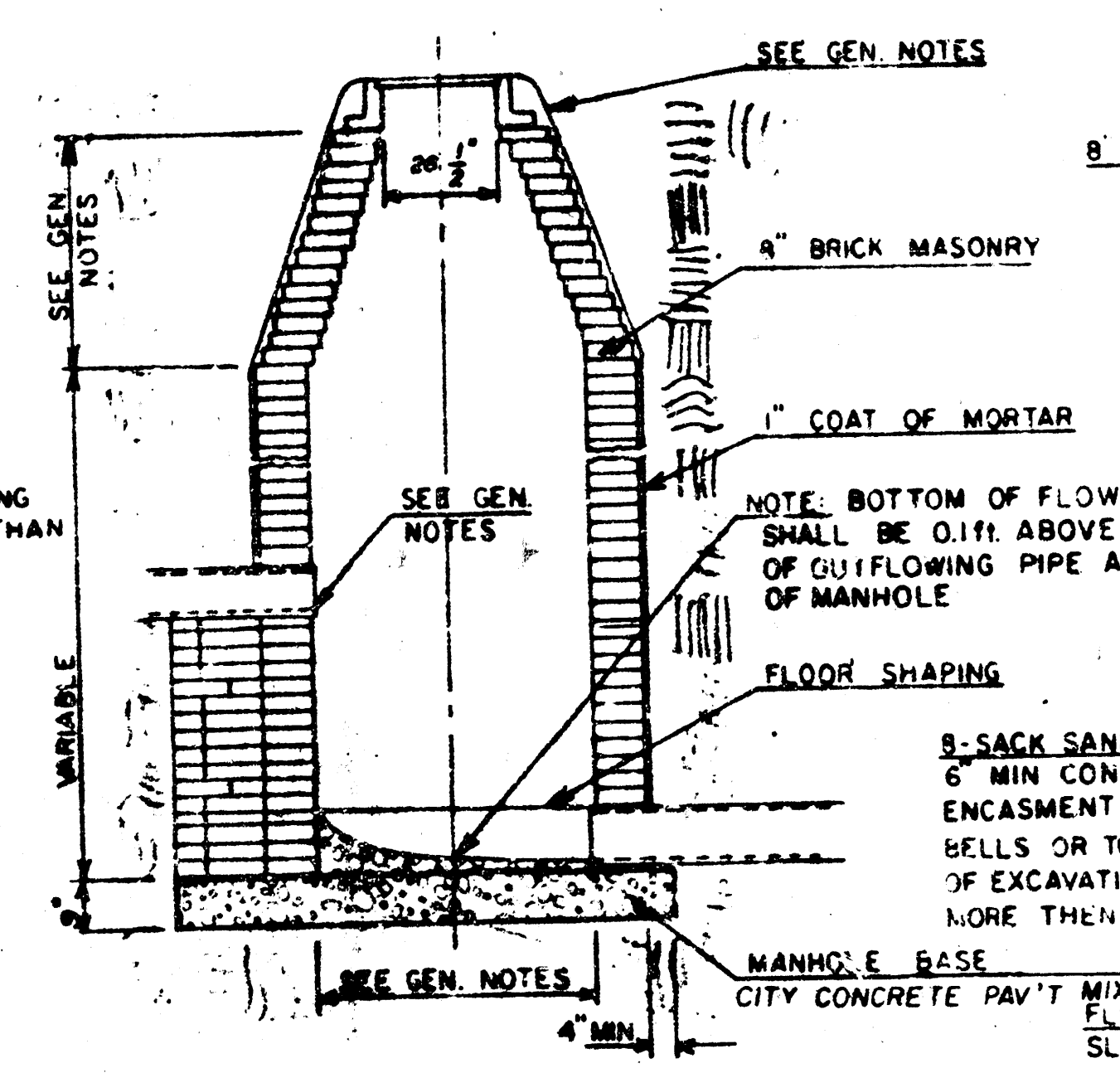
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REVISED DECEMBER 1981

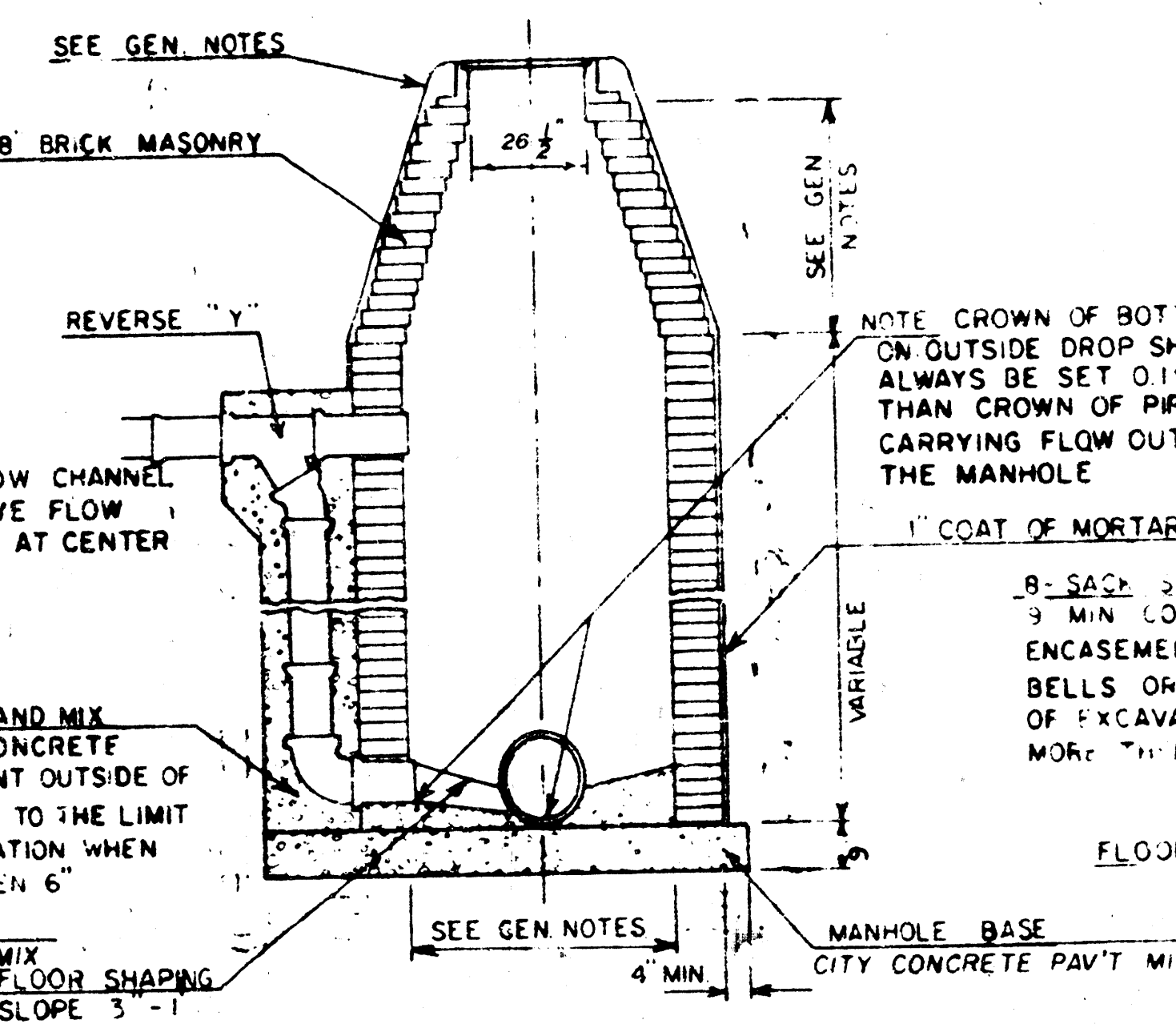
TYPE "A" MANHOLE



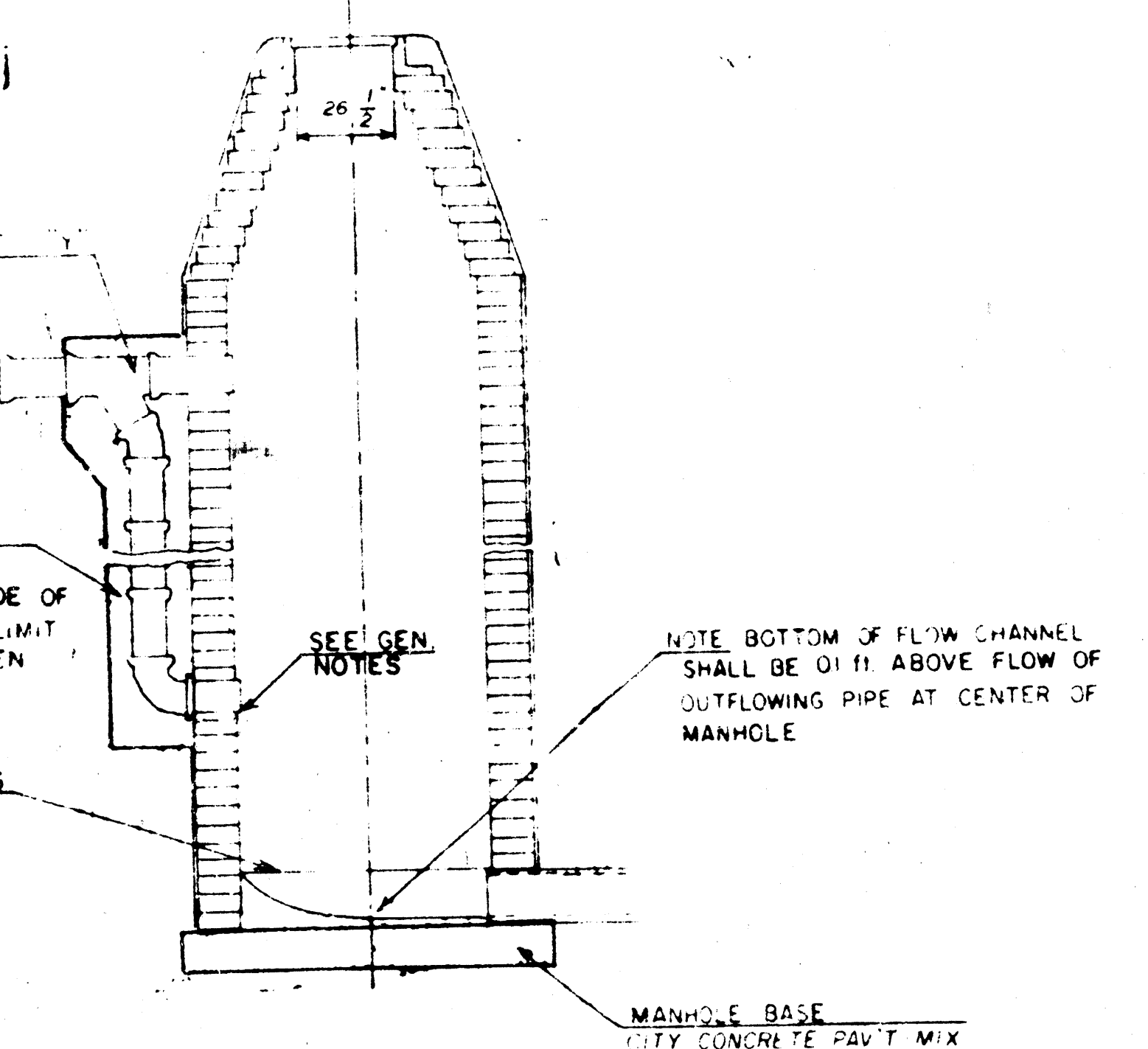
TYPE "A" INSIDE DROP MANHOLE



TYPE "A" OUTSIDE DROP MANHOLE



DETAIL OF OUTSIDE DROP
CONSTRUCTED ON EXISTING MANHOLE



GENERAL NOTES

- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 3 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE 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 ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. TYPE "A" MANHOLES CAN BE USED ON SEWERS UP TO 16" IN DEPTH WHEN THE MANHOLE IS NOT LOCATED WITHIN PUBLIC STREET PAVEMENT. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24" SHALL HAVE AN INSIDE DIAMETER OF 4'. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 5'. THE HEIGHT OF THE CORNELLS ON 4' DIAMETER MANHOLES SHALL BE 4'. MANHOLES HAVING A DIAMETER OF 5' SHALL HAVE CORNELLS 6' IN HEIGHT. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
- REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 4" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED 6" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
- OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS CUT INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATERSTOP CASSETS SHALL BE USED WITH P.V.C. AND A.S.S. COMPOSITE PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED GROUTING GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTENSION OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. SIDES OF MANHOLE SHALL BE REINFORCED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THE VERTICAL DROP FROM THE LOWER PIPE ON SUCH OUTSIDE DROP CONNECTIONS SHALL NOT EXCEED 4' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES SIZED LARGER THAN 12". EXCEPT THE CROWN OF THE LOWER PIPE SHALL NEVER BE SET BELOW THE CROWN OF ANY LARGER OUTFLOWING PIPE. THIS WORK, INCLUDING MODIFICATION OF MANHOLE BASES, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
- 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 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 NEAR LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
- 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 IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
- 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.
- THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 4' FOR INFLOWING PIPES SIZED 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.
- STANDARD MANHOLES TYPE "A" AND STANDARD INSIDE DROP MANHOLES TYPE "A" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES TYPE "A" SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.

LATERAL 106 MAIN 2
SANITARY SEWER 12
Wichita, Kansas
PROJECT NO.
468-78-243-80000-000-000-008
SHEET 5 OF 8

SEWER APPURTENANCES DETAILS

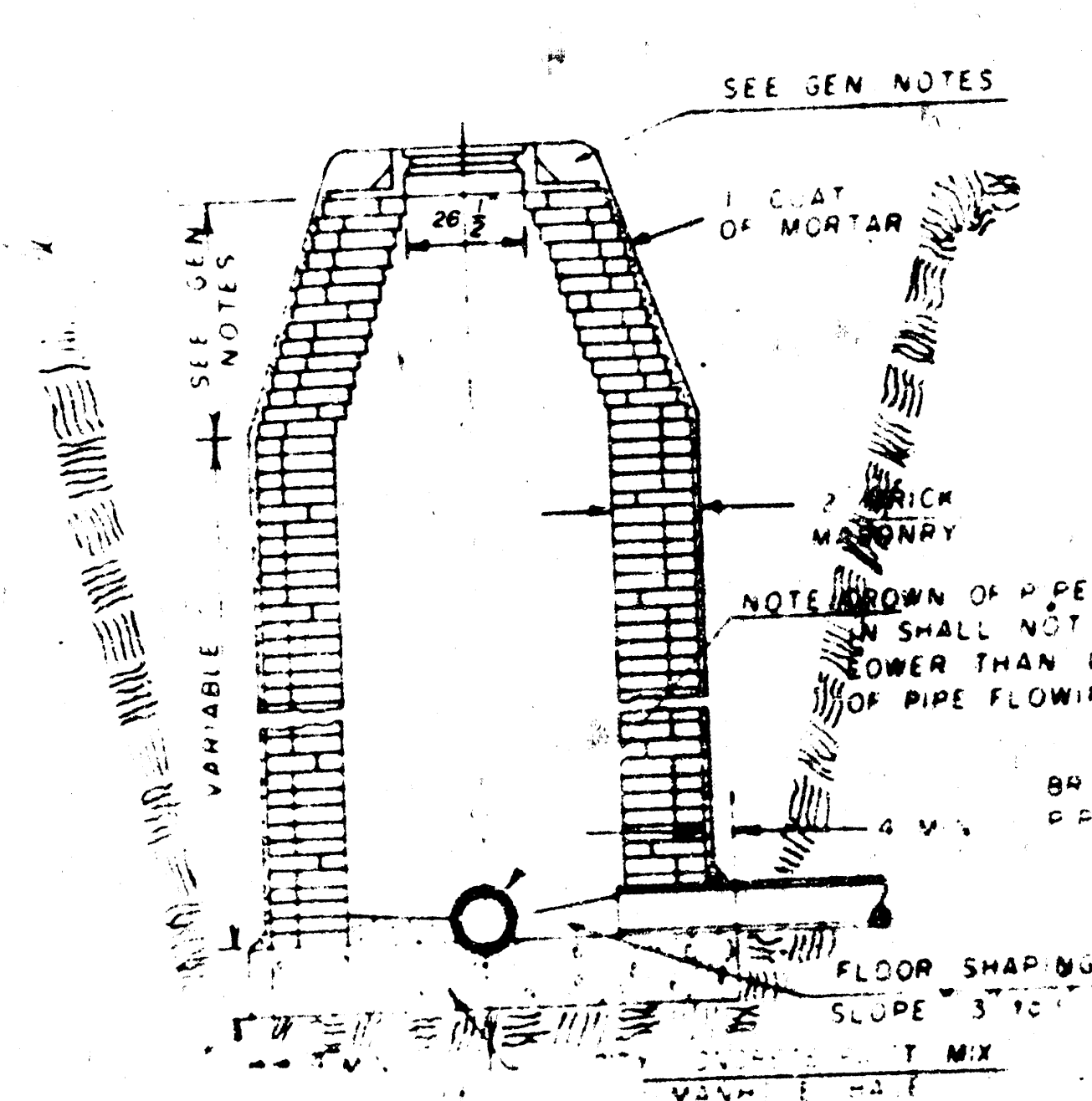
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BY

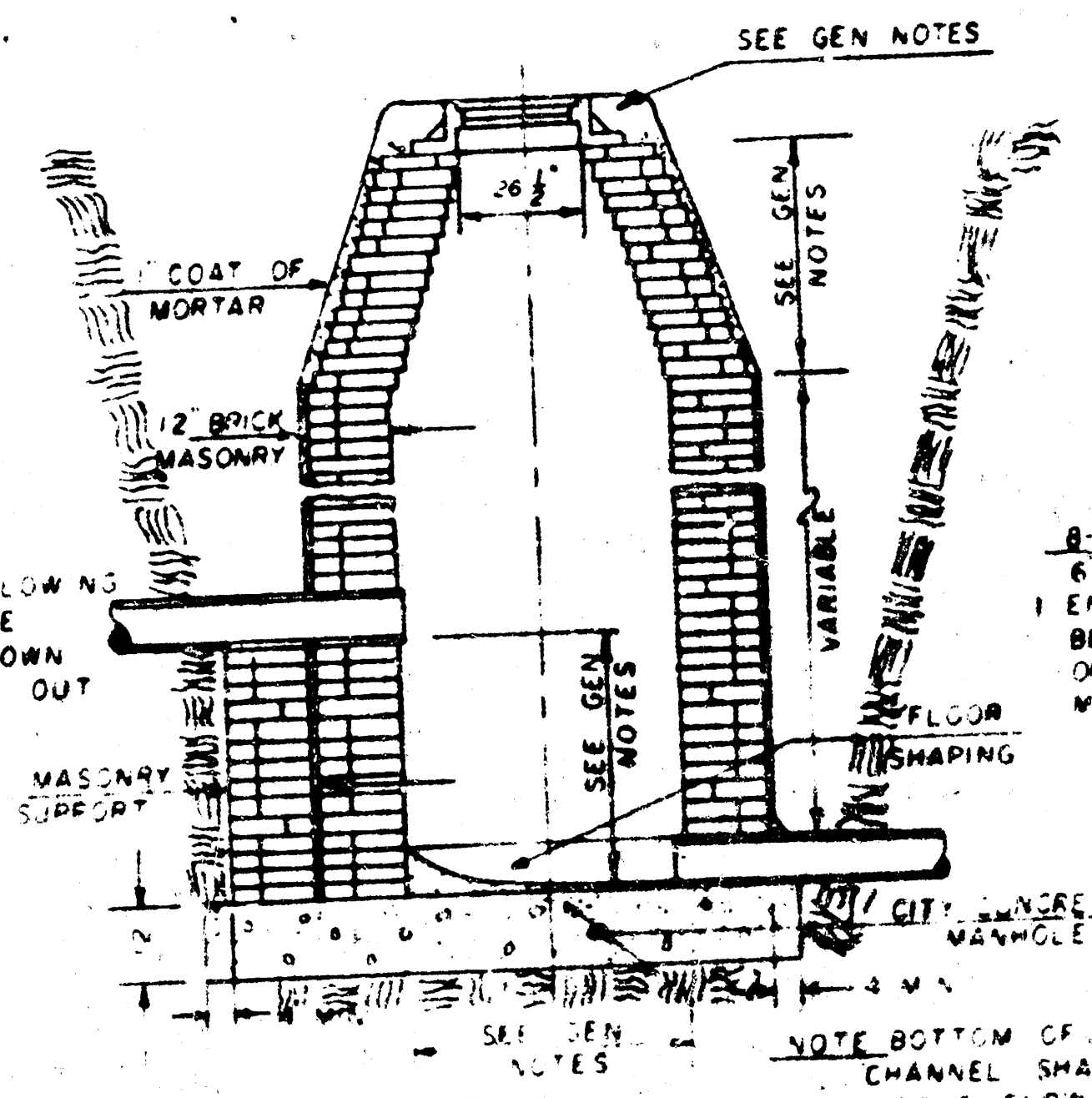
City of Wichita, Kansas

REVISED MAY 1981
REVISED JAN. 1982

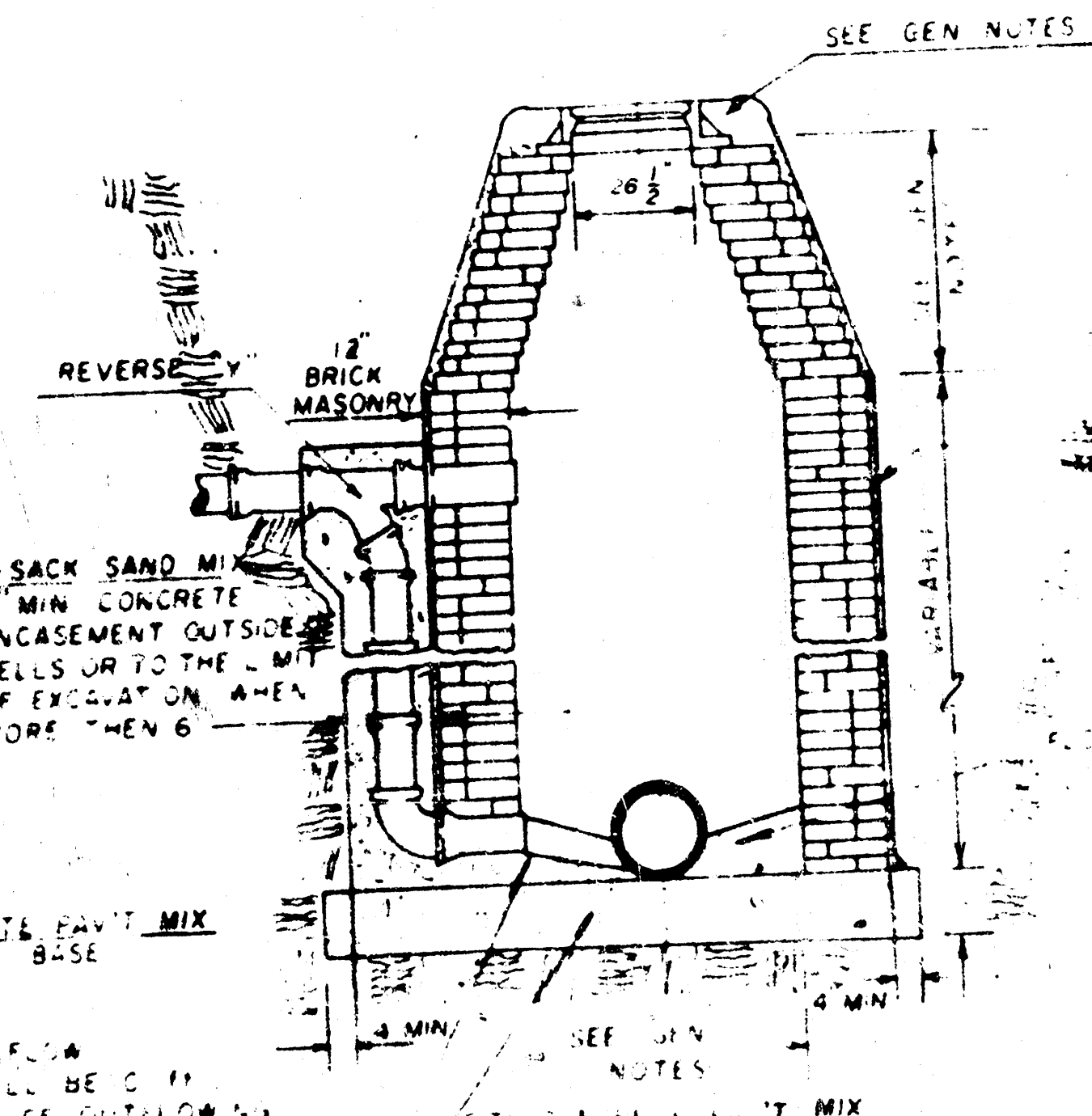
TYPE "B" MANHOLE



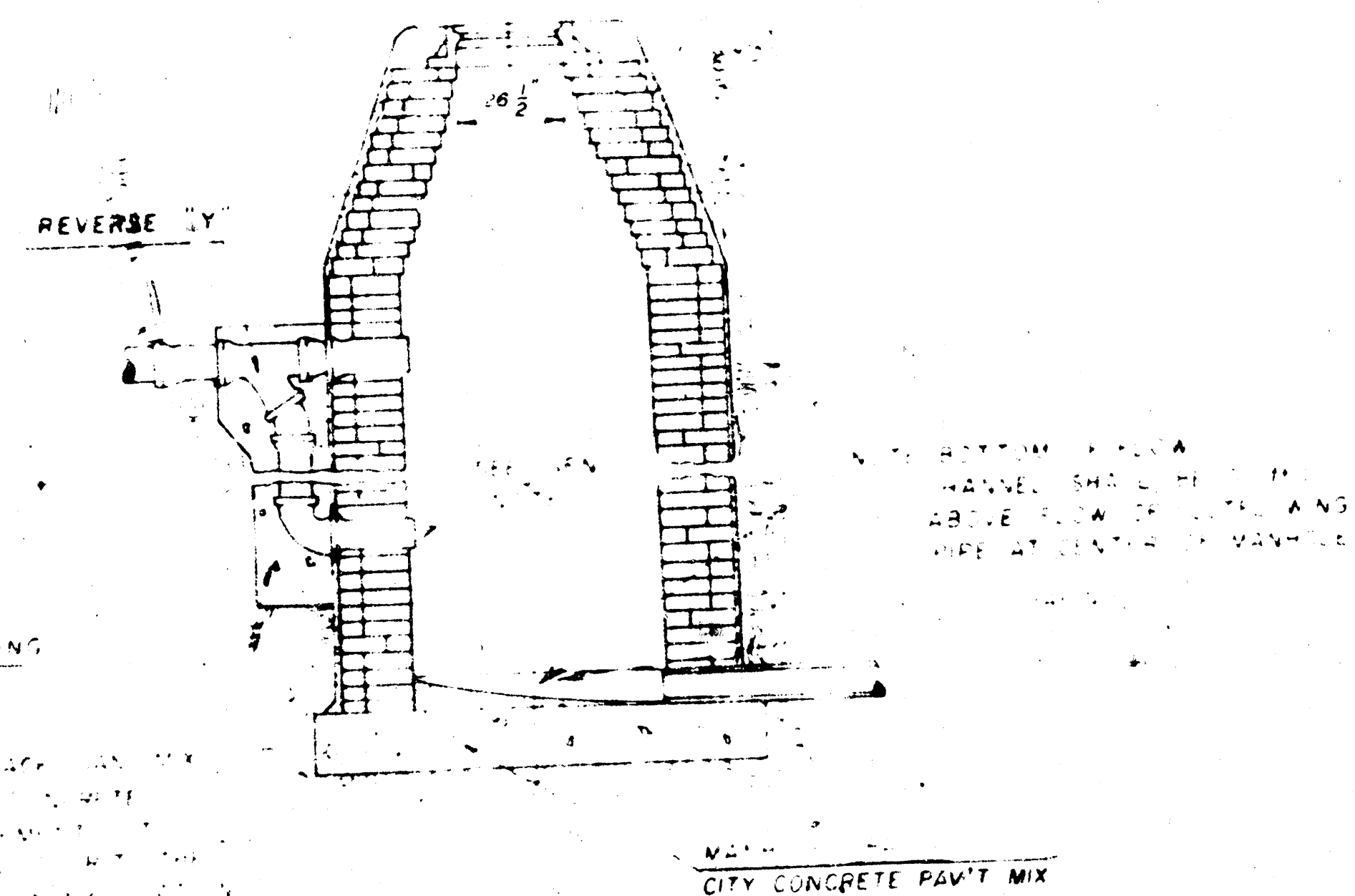
TYPE "B" INSIDE DROP MANHOLE



TYPE "B" OUTSIDE DROP MANHOLE



DETAIL OF OUTSIDE DROP
CONSTRUCTED ON EXISTING MANHOLE



GENERAL NOTES

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- REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED 6" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR PURCHASING AND INSTALLING REINFORCEMENT STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
- OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. WHEN OPENING CUT INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLATION AND GROUTING THE NEW PIPE IN PLACE. MANHOLE COVER CASTINGS SHALL BE USED WITH P.V.C. AND A.R.S. COMPOSITE PIPE. THE NEW PIPE SHALL BE GROUTED TO THE OPENING USING AN APPROVED HOUSEHOLD GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL. THE FLOW CHANNEL SHALL BE INDICATED BY THE DRAWING. THE VERTICAL DROP FROM THE LOWER PIPE TO SUCH OUTSIDE DROP CONNECTIONS SHALL NOT EXCEED 4' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES SIZED LARGER THAN 12". EXCEPT THE CROWN OF THE LOWER PIPE SHALL NEVER BE SET BELOW THE CROWN OF ANY LARGER OUTFLOWING PIPE. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP SPACE CONSTRUCTED ON EXISTING MANHOLE.
- 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 PIPES. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPES 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 SLOPES OF 3/4 INCH PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW POST IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW POST. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF RE-SHORED TO SEAT LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
- PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE SHORED 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 TIGHTENED AT THE CLAY PIPE JOINT. COST IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
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- STANDARD MANHOLES TYPE "B" AND STANDARD INSIDE DROP MANHOLES TYPE "B" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES TYPE "B" SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.

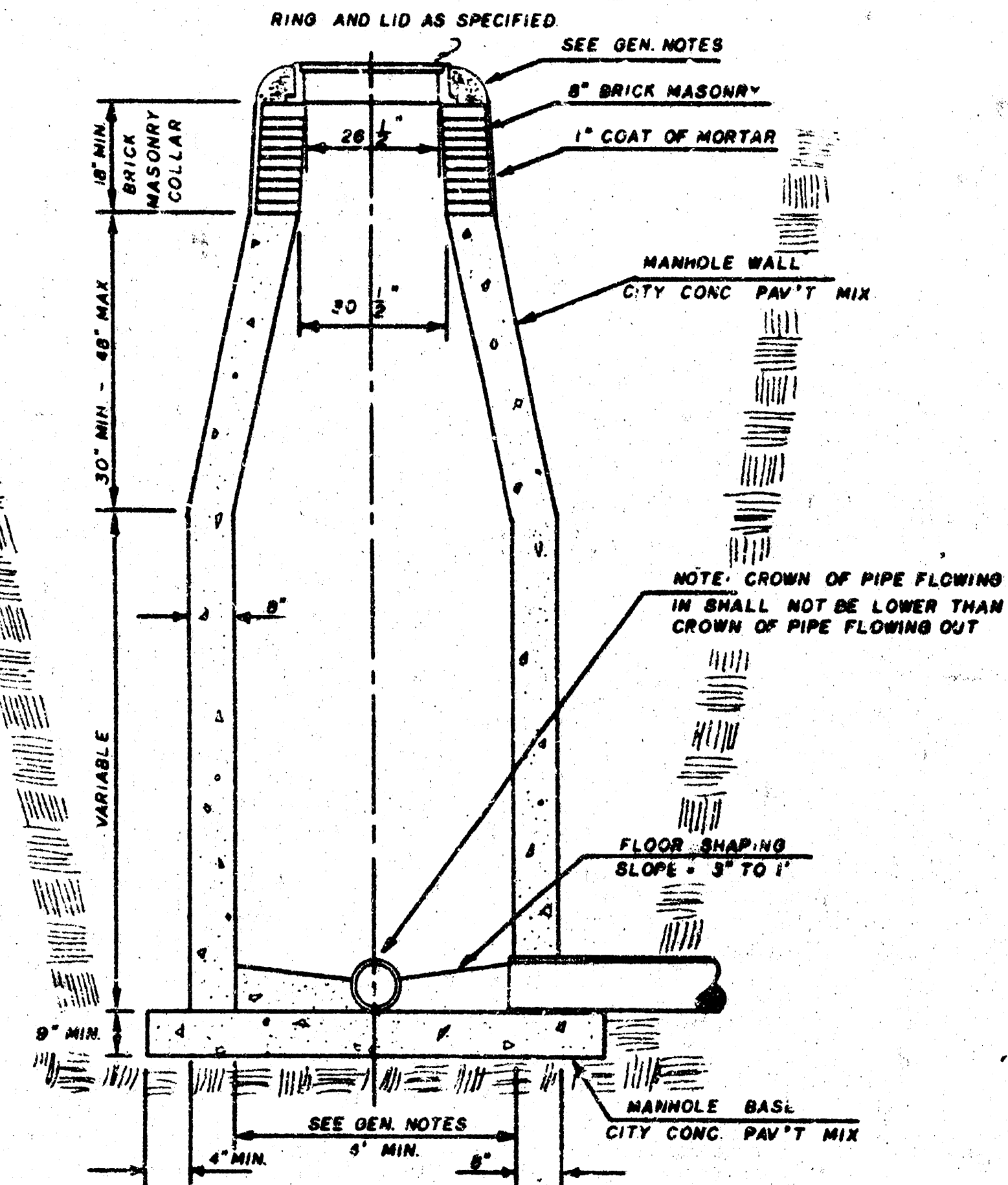
LATERAL 108 MATH 2
SANITARY SEWER 12
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PROJECT NO.
488-78-248-80000-000-000-008
SHEET 6 OF 8

SEWER APPURTENANCES DETAILS

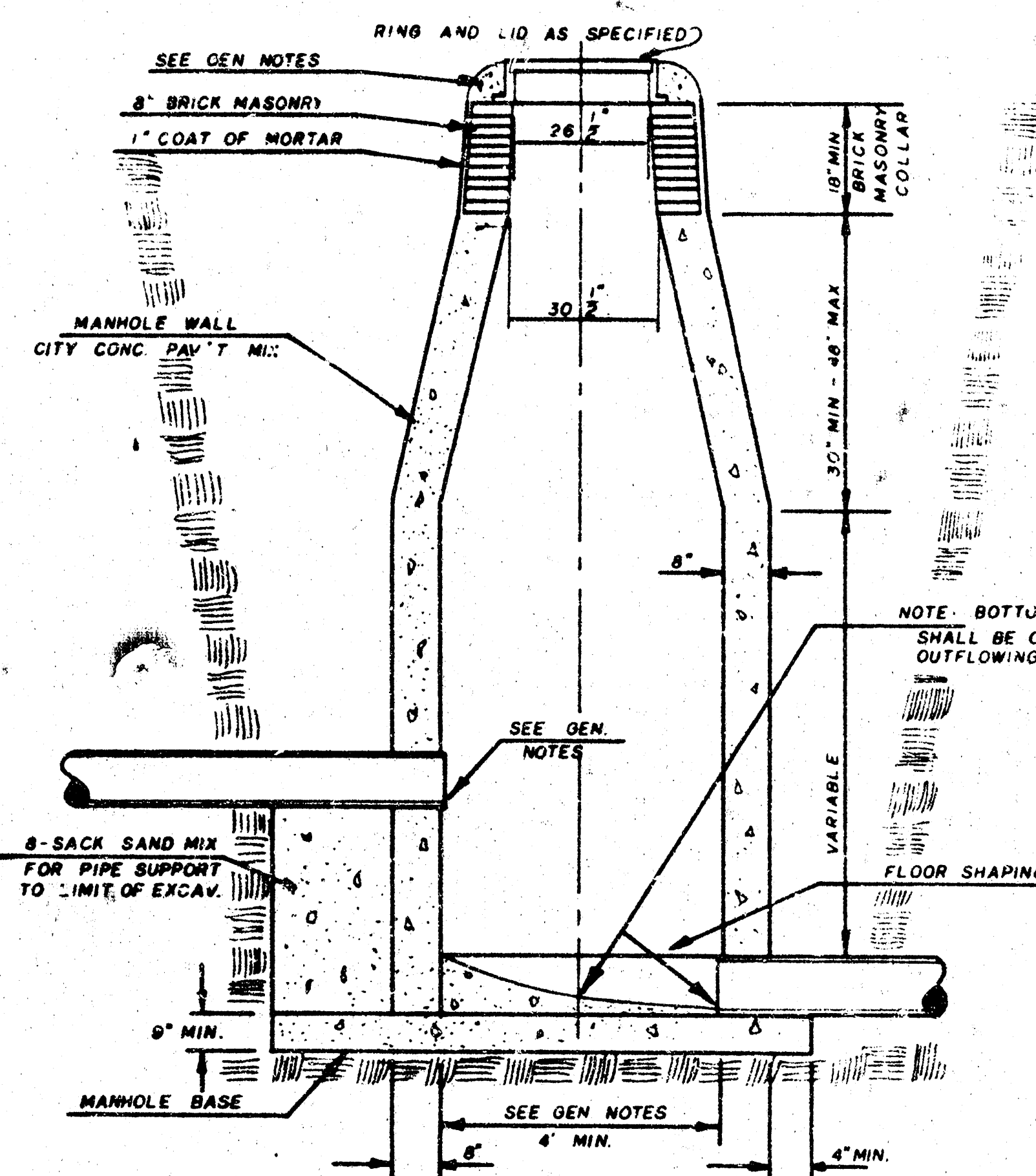
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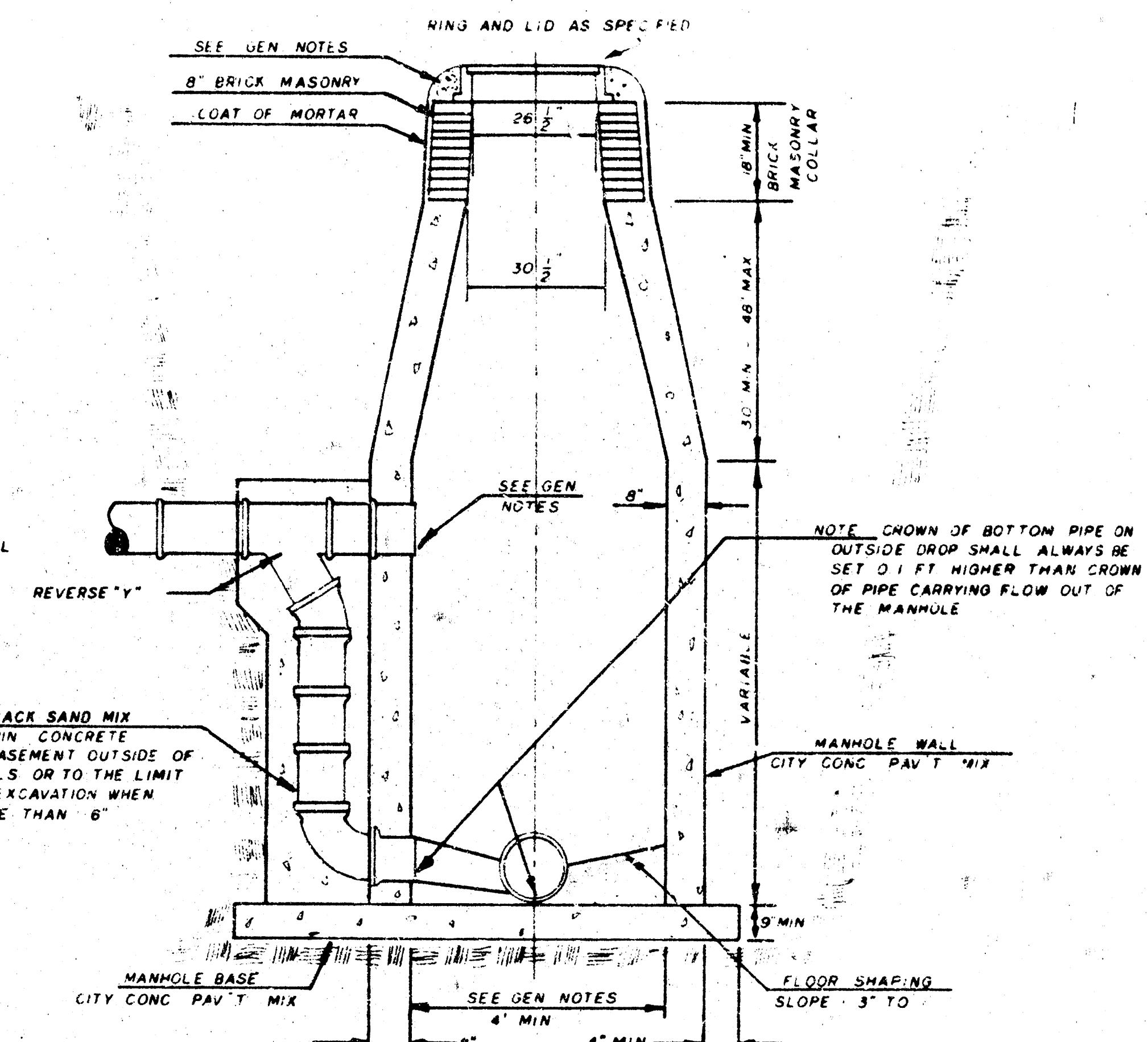
STANDARD MANHOLE TYPE "C"



INSIDE DROP MANHOLE TYPE "C"



OUTSIDE DROP MANHOLE TYPE "C"



GENERAL NOTES

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- 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 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.
- 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 GROUTED INTO THIS OPENING WITH NON-SHRINKING GROUT. THE EXTERIOR OF THIS COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT.
- 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 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 NEAT LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
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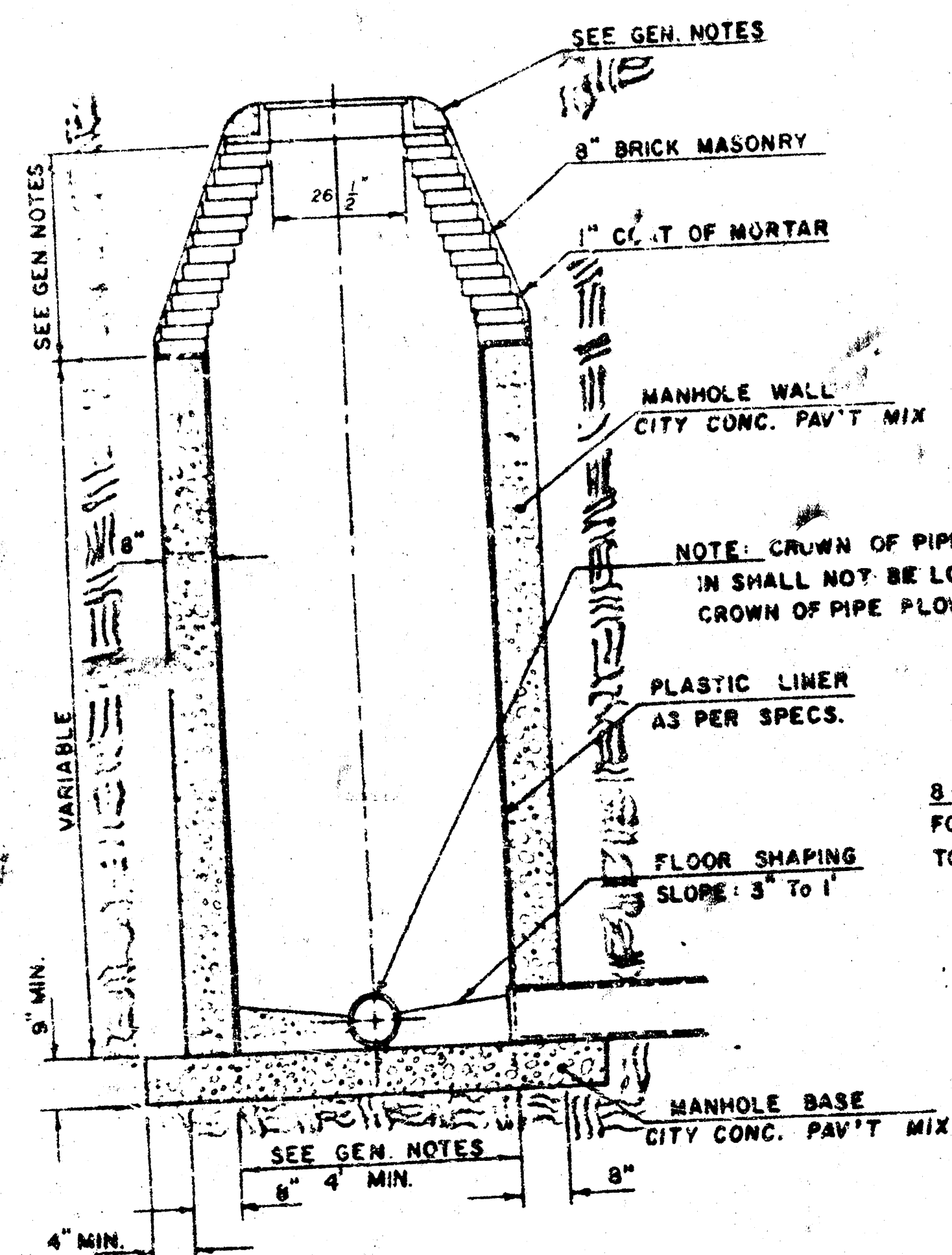
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SHEET 7 OF 8

SEWER APPURTENANCES DETAILS

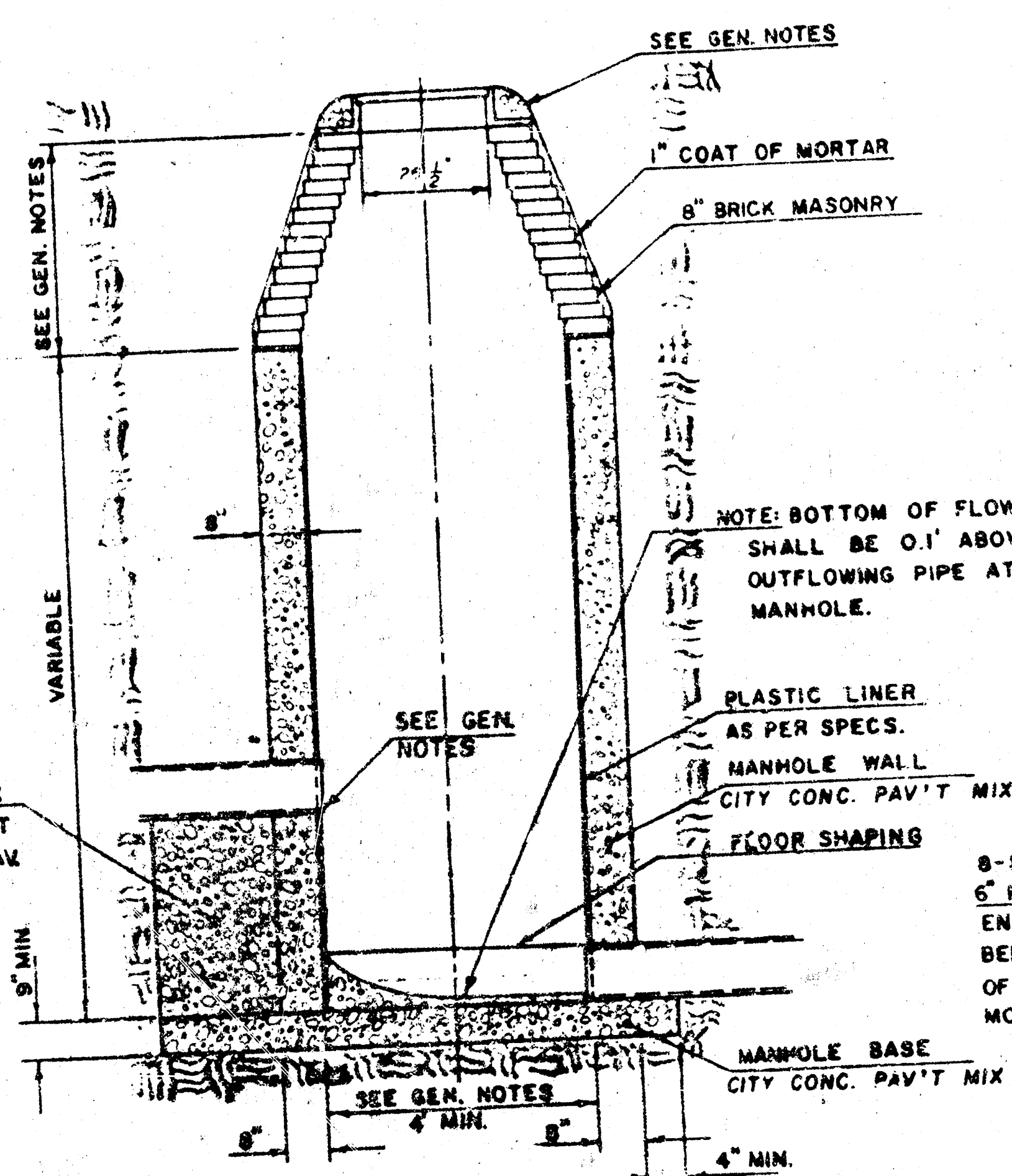
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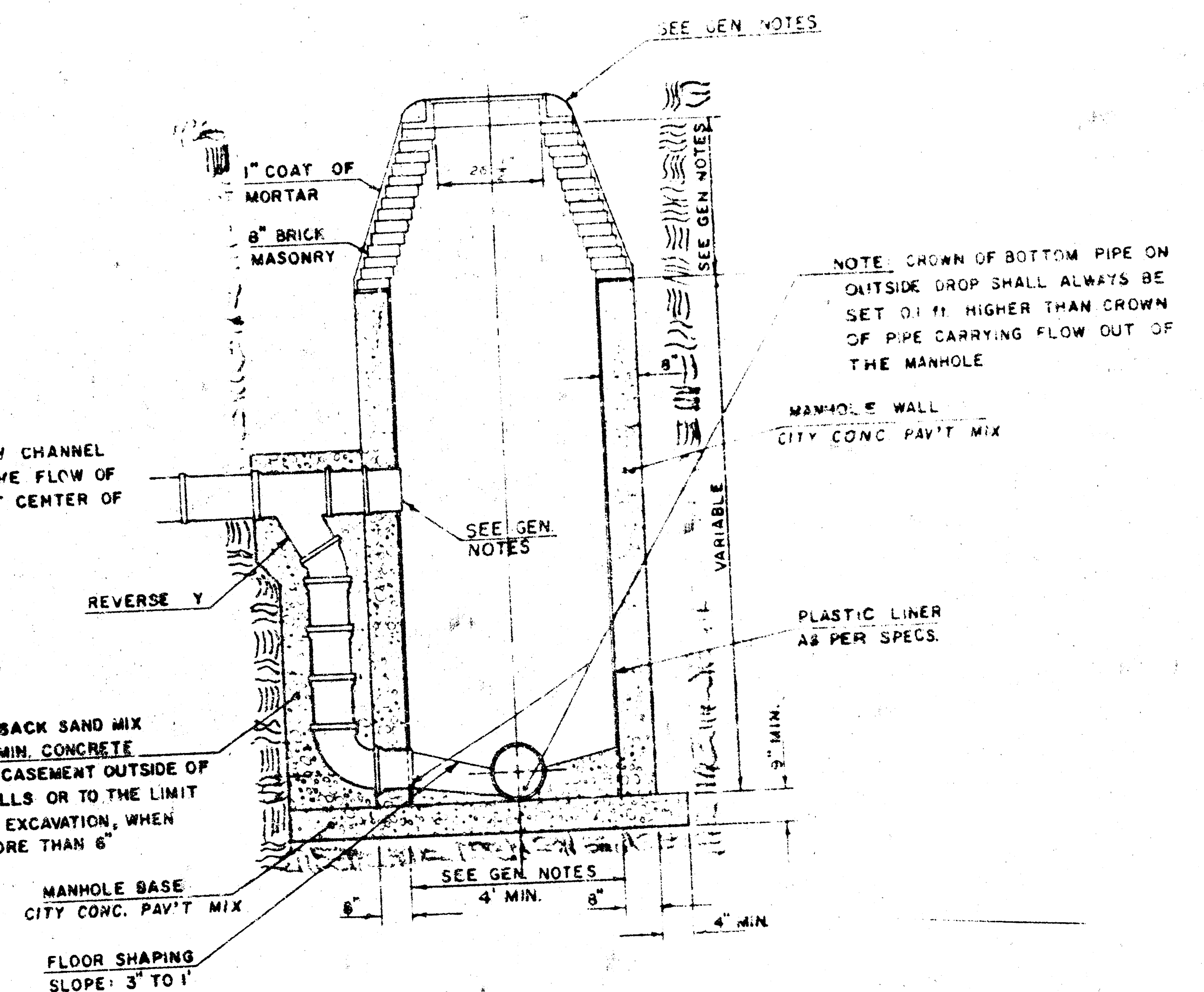
TYPE "D" MANHOLE



TYPE "D" INSIDE DROP MANHOLE



TYPE "D" OUTSIDE DROP MANHOLE



1. MORTAR USED IN MASONRY CONSTRUCTION SHALL BE OF THE FOLLOWING MIX: 1 PART PORTLAND CEMENT, 3 PARTS SAND, 1 PART LIME. THE CITY ENGINEER SHALL BE NOTIFIED OF THE MIX USED. THE CITY ENGINEER SHALL BE NOTIFIED OF THE MIX USED. THE CITY ENGINEER SHALL BE NOTIFIED OF THE MIX USED.
2. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE WALLS AND BASES. THE REINFORCING STEEL SHALL BE OF THE FOLLOWING MIX: 1 PART PORTLAND CEMENT, 3 PARTS SAND, 1 PART LIME. THE CITY ENGINEER SHALL BE NOTIFIED OF THE MIX USED. THE CITY ENGINEER SHALL BE NOTIFIED OF THE MIX USED. THE CITY ENGINEER SHALL BE NOTIFIED OF THE MIX USED.
3. AN OPENING SHALL BE CUT IN THE MANHOLE WALL FOR THE INLET PIPE. THE INLET PIPE SHALL BE OF THE FOLLOWING MIX: 1 PART PORTLAND CEMENT, 3 PARTS SAND, 1 PART LIME. THE CITY ENGINEER SHALL BE NOTIFIED OF THE MIX USED. THE CITY ENGINEER SHALL BE NOTIFIED OF THE MIX USED. THE CITY ENGINEER SHALL BE NOTIFIED OF THE MIX USED.
4. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH A SLOPE OF 3 INCHES TO 1 FOOT. THE CITY ENGINEER SHALL BE NOTIFIED OF THE MIX USED. THE CITY ENGINEER SHALL BE NOTIFIED OF THE MIX USED. THE CITY ENGINEER SHALL BE NOTIFIED OF THE MIX USED.

LATERAL 106 MAIN 2
SANITARY SEWER 12
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568-75-245-80000-000-000-000
SHEET 8 OF 8

REVISED JAN 1982
JUNE, 1980

14 3 4 5