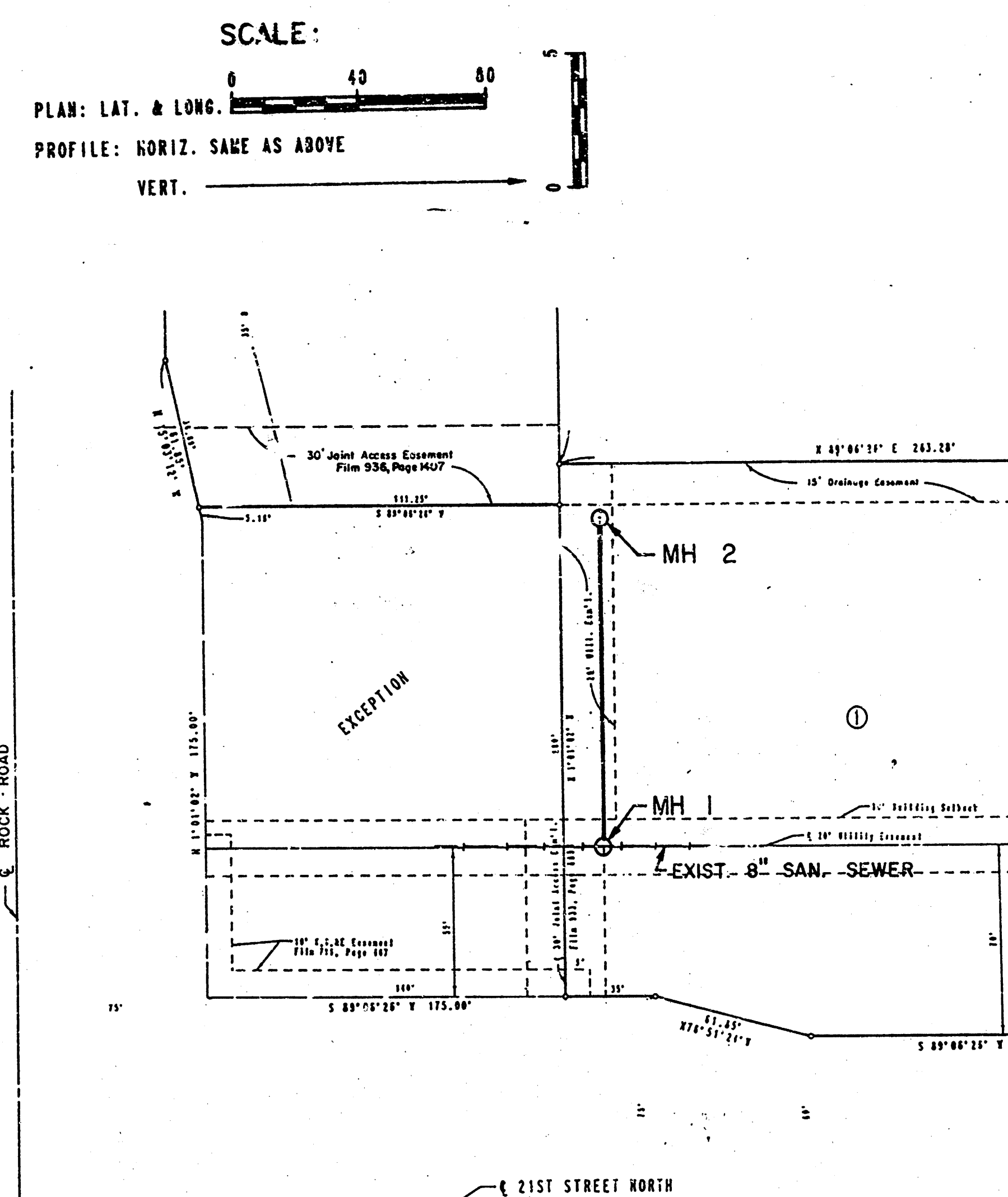


PROFILE SURVEYED PLOTTED GRADES CHECKED B. M'S NOTED	THIS PROJECT WAS COMPLETED ON <u>12-1-68</u> BY <u>W. H. HARRIS</u>		DATE
	THIS PROJECT WAS COMPLETED ON <u>12-1-68</u> BY <u>W. H. HARRIS</u>		



PLAN: LAT. & LONG. _____
 PROFILE: HORIZ. SAME AS ABOVE
 VERT. _____

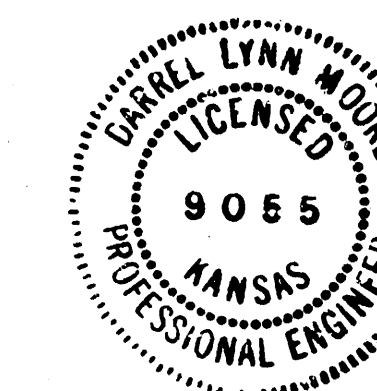
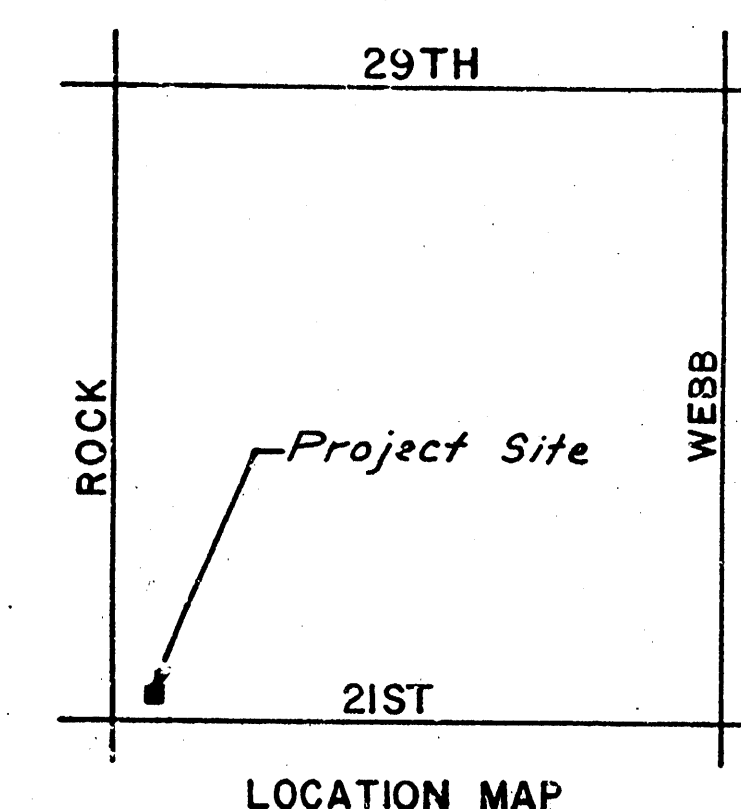
SCALE:

KEY MAP

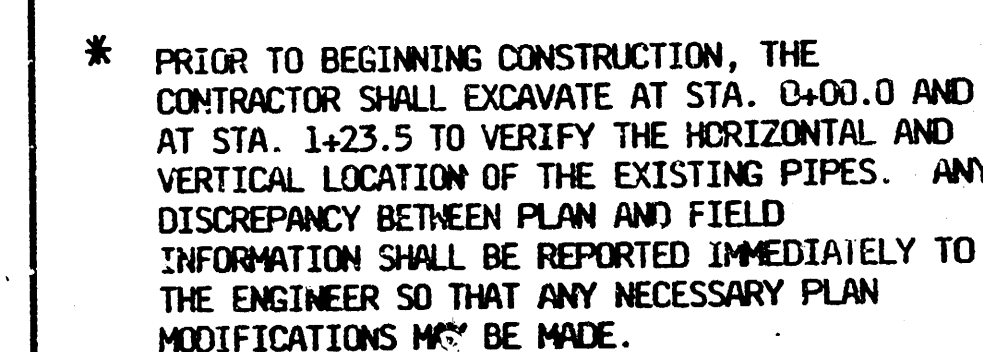
1. ALL CONSTRUCTION AND MATERIALS TO COMPLY WITH CITY OF MIDWINTER SPECIFICATIONS AND STANDARDS.
2. ALL ELEVATIONS SHOWN ARE CITY OF MIDWINTER DATUM (UGSS-1187.4 = CITY DATUM).
3. THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHT AND EXTENDS TO LESS THAN 50 FEET.
4. AT LEAST 48 HOURS PRIOR TO BEGINNING EXCAVATION, IF REQUIRED, (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE WATER UTILITY SYSTEM, A UTILITY LOCATION SERVICE, AT (316) 687-2670 TO REQUEST THE FOLLOWING UTILITY COMPANIES TO LOCATE ANY EXISTING LINES WITHIN THE PROJECT AREA. GAS SERVICE COMPANY, E.G. - A THE MIDWINTER WATER DEPARTMENT, AIR CABLE OBSERVATION, AND THE TELEPHONE COMPANY.
5. UNDERGROUND UTILITY CABLES AND OVERHEAD UTILITY POLE LINES ARE TO BE IDENTIFIED AS NEARLY AS POSSIBLE PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE CONTRACTOR REQUESTS EXCAVATION OF THE UTILITY LINES. ALL OTHER GROUND PLANS SPECIFICALLY LOCATING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. THE CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING THE LOCATION WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS TO BE RE-ESTABLISHED TO THE ORIGINAL LOCATION AND SURVEYED IN ACCORDANCE WITH STATE LAWS. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO THE OTHER ITEMS OF WORK.
7. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.
8. UNLESS OTHERWISE SPECIFIED ON THE PLANS, MANHOLES MAY BE TYPE "CM", "CM", OR "DM" MANHOLES. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE CITY OF MIDWINTER.

OF THE
WAR INDUSTRIES SEWER
IN
THE CITY OF WICHITA
SEDGWICK COUNTY, KANSAS

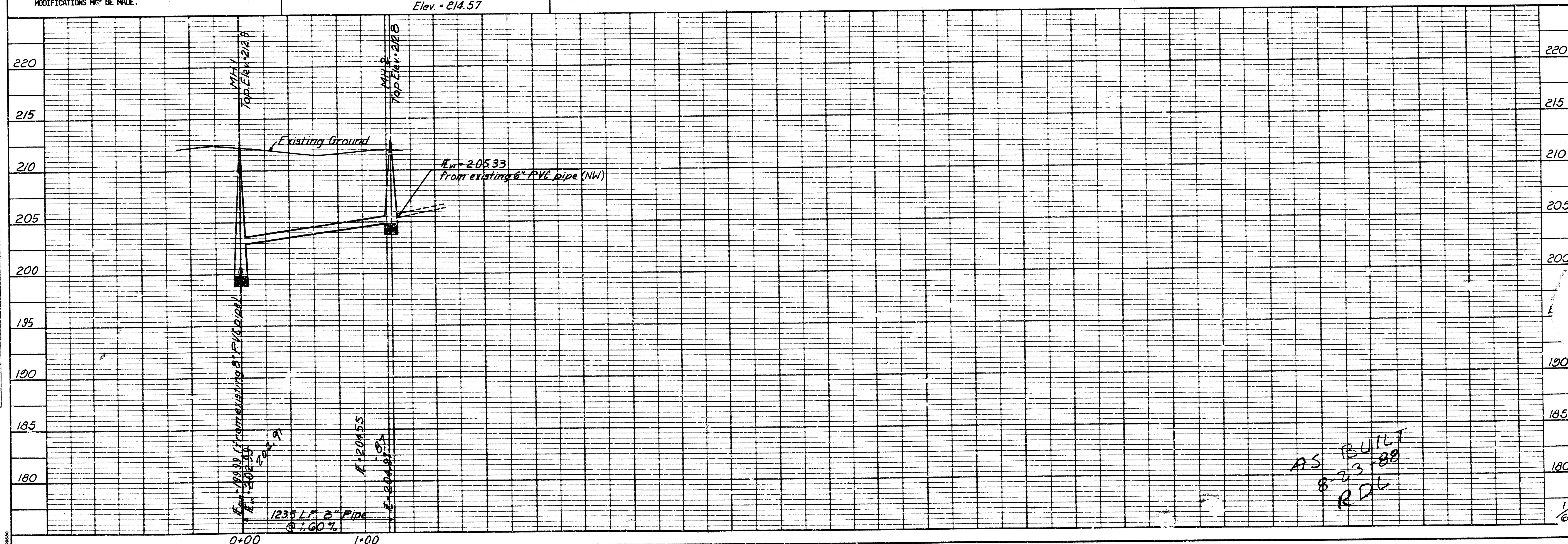
C. O. W. PROJECT NO. 468-76-245-61840-000-000-001



MICHAEL E. LINDEBAK, RE. CITY ENGINEER



BM - City of Wichita brass disk 45' North and
48' East of Rock Rd. and 21st St. North.
Elev. = 214.57



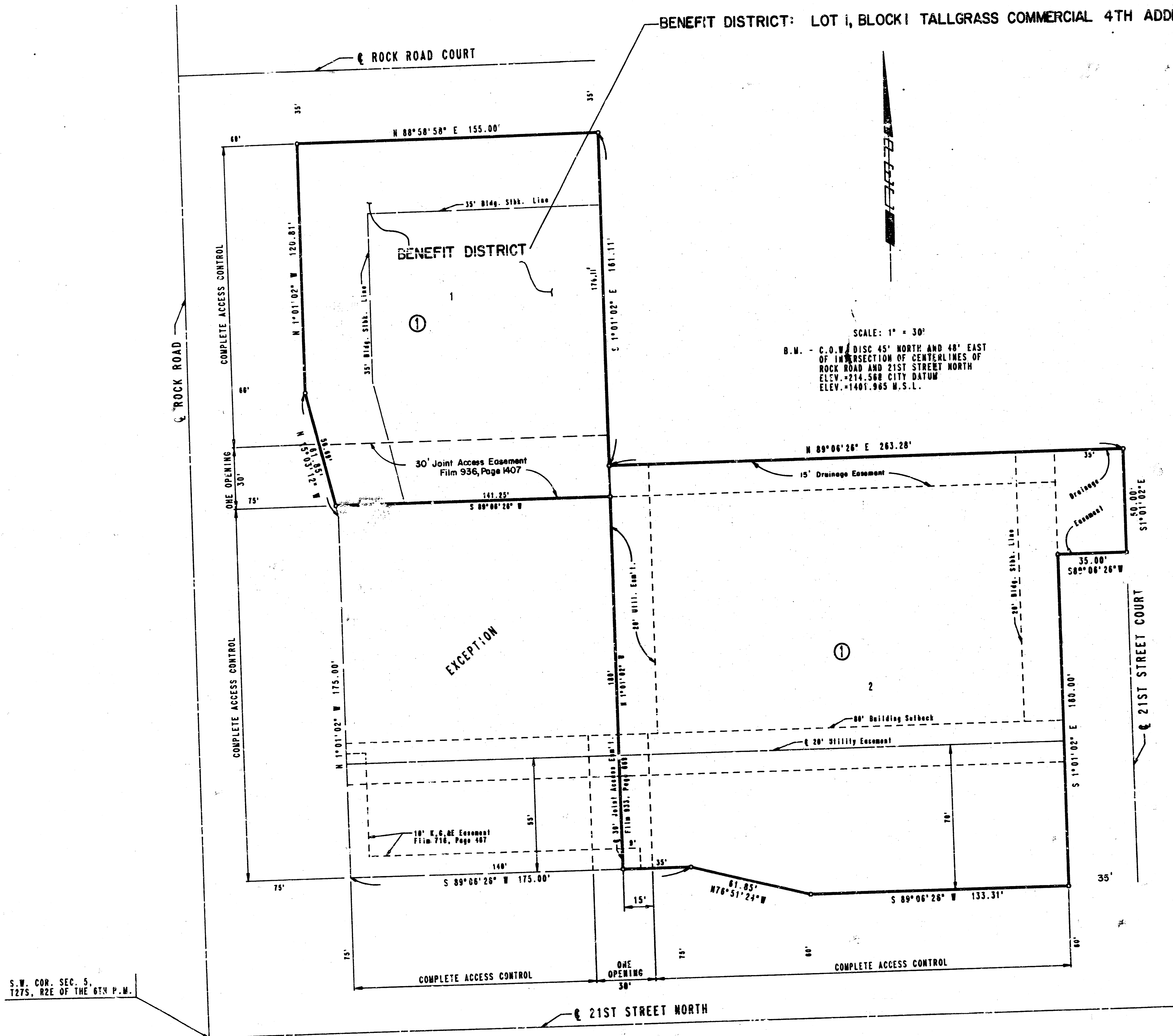
AS BUILT
8-23-88
RDL



ENGINEERING

Designed by *DLM*

TALLGRASS COMMERCIAL 4TH ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



STATE OF KANSAS }
COUNTY OF SEDGWICK }

I, R.W. LINN, A PROFESSIONAL ENGINEER IN AFORESAID STATE AND COUNTY, DO HEREBY CERTIFY THAT ON THIS 2nd DAY OF March, 1988, I HAVE BEEN IN RESPONSIBLE CHARGE OF SURVEYING AND PLATTING OF TALLGRASS COMMERCIAL 4TH ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS, INTO LOTS, AND A BLOCK THE SAME BEING A REPLAT OF PART OF LOT 6, BLOCK 1, IN TALLGRASS COMMERCIAL THIRD ADDITION AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS AND MORE PARTICULARLY DESCRIBED AS:

BEGINNING AT THE SE CORNER OF SAID LOT 6; THENCE BEARING S89°00'26"W ALONG THE SOUTH LINE OF SAID LOT 6 A DISTANCE OF 133.31 FEET; THENCE BEARING N76°51'24"W A DISTANCE OF 61.85 FEET; THENCE BEARING S89°00'26"W A DISTANCE OF 35.00 FEET; THENCE BEARING N1°01'02"E A DISTANCE OF 180.00 FEET; THENCE BEARING S89°00'26"W A DISTANCE OF 141.25 FEET TO A POINT IN THE WEST LINE OF SAID LOT 6; THENCE BEARING N15°03'12"W ALONG SAID WEST LINE A DISTANCE OF 56.89 FEET; THENCE BEARING N1°01'02"E A DISTANCE OF 120.81 FEET; TO THE NW CORNER OF SAID LOT 6; THENCE BEARING N89°00'26"E A DISTANCE OF 155.00 FEET TO THE NE CORNER OF SAID LOT 6; THENCE BEARING S1°01'02"E A DISTANCE OF 161.11 FEET; THENCE BEARING N89°00'26"E A DISTANCE OF 285.36 FEET; THENCE BEARING S1°01'02"E A DISTANCE OF 50.00 FEET; THENCE BEARING S89°00'26"W A DISTANCE OF 35.00 FEET; THENCE BEARING S1°01'02"E A DISTANCE OF 160.00 FEET TO THE POINT OF BEGINNING, CONTAINING 1.74 ACRES MORE OR LESS.

R.W. LINN
P.E. #3684, R.L.S. #934
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

KNOW ALL MEN BY THESE PRESENTS THAT WE, THE UNDERSIGNED PROPERTY OWNERS OF THE LAND AS ABOVE SET FORTH IN THE ENGINEER'S CERTIFICATE, HAVE CAUSED THE LAND TO BE SURVEYED AND PLATTED INTO LOTS AND A BLOCK, THE SAME TO BE KNOWN AS TALLGRASS COMMERCIAL 4TH ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS. EASEMENTS, AS INDICATED, FOR THE CONSTRUCTION AND MAINTENANCE OF PUBLIC UTILITIES, AND DRAINAGE ARE HEREBY GRANTED.

ALL ADJUTERS' RIGHT OF ACCESS TO AND FROM ROCK ROAD AND 21ST STREET NORTH OVER AND ACROSS THE WEST LINE OF LOT 1 AND SOUTH LINE OF LOT 2, IN BLOCK 1 ARE HEREBY GRANTED TO CITY OF WICHITA; PROVIDED HOWEVER THAT LOT 1, BLOCK 1, SHALL HAVE ACCESS TO ROCK ROAD AT ONE LOCATION AND THAT LOT 2, BLOCK 1, SHALL HAVE ACCESS TO 21ST STREET AT ONE LOCATION SAID LOCATIONS TO BE DESIGNATED BY THE CITY ENGINEER OF WICHITA, KANSAS.

THOSE PORTIONS OF S.W.S. EASEMENT ON FILM 669 PAGE 223 AND 20 FOOT UTILITY EASEMENT ON FILM 587 PAGE 986, TOGETHER WITH THAT PORTION OF LOT 5, BLOCK 1 IN TALLGRASS COMMERCIAL THIRD ADDITION WITHIN THE TRACT AS DESCRIBED IN THE ENGINEER'S CERTIFICATE ARE HEREBY VACATED AND REPLATTED BY VIRTUE OF K.S.A. 12-512(C) AMENDED.

OWNED BY: INDEPENDENCE COMMONS COMPANY, A PARTNERSHIP
BY RITCHIE ENTERPRISES, MANAGING PARTNER

BY: H.D. Ritchie
H.D. RITCHIE

STATE OF KANSAS }
COUNTY OF SEDGWICK }

BE IT REMEMBERED THAT ON THIS 2nd DAY OF March, 1988, BEFORE ME, A NOTARY PUBLIC IN AFORESAID STATE AND COUNTY, CAME H. D. RITCHIE, OF RITCHIE ENTERPRISES AND THE MANAGING PARTNER OF INDEPENDENCE COMMONS COMPANY, A PARTNERSHIP, TO ME PERSONALLY KNOWN TO BE THE SAME PERSON WHO EXECUTED THE FOREGOING INSTRUMENT OF WRITING AND DULY ACKNOWLEDGED THE EXECUTION OF SAME FOR AND ON BEHALF AND AS THE VOLUNTARY ACT AND DEED OF SAID PARTNERSHIP. TESTIMONY WHEREOF I HAVE HERETO SET MY HAND AND AFFIXED MY NOTARIAL SEAL THE DAY AND YEAR ABOVE WRITTEN.

Charlene A. Stilwell NOTARY PUBLIC
MY COMMISSION EXPIRES 11/30/91

THIS PLAT HAS BEEN SUBMITTED TO AND APPROVED BY THE WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION, WICHITA, KANSAS, DATED THIS 2nd DAY OF March, 1988.

Elton Parsons CHAIRMAN
Marvin S. Krout SECRETARY

THIS PLAT APPROVED AND ALL DEDICATIONS SHOWN HEREON ARE ACCEPTED BY THE CITY COUNCIL OF THE CITY OF WICHITA, KANSAS. DATED THIS 2nd DAY OF March, 1988.

Robert C. Knight MAYOR
Dale E. Rea DEPUTY CITY CLERK

ENTERED ON TRANSFER RECORD THIS 21 DAY OF March, 1988.
Don Wright COUNTY CLERK

THIS IS TO CERTIFY THAT THIS INSTRUMENT WAS FILED FOR RECORD IN THE REGISTER OF DEEDS OFFICE AT 3:00 P.M. ON THIS 21st DAY OF March, 1988.

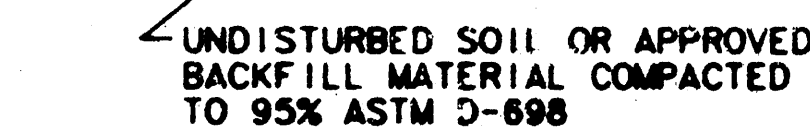
Pat Kettler REGISTER OF DEEDS
Ed Resa DEPUTY

937300

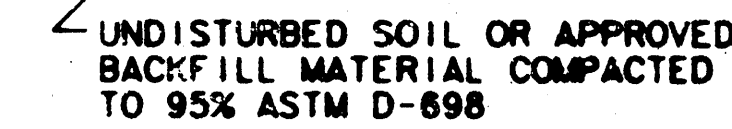
BY
CITY OF WICHITA



TYPE P
STANDARD MANHOLE



TYPE P
INSIDE DROP MANHOLE



TYPE P
OUTSIDE DROP MANHOLE



SECTION X
(TYPICAL)

PRECAST MANHOLE NOTES

- 10 MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 BAGS OF
CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL
BE 10% TO 15% BETTER THAN THE CITY STANDARD PAVING
CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING
SPECIFICATIONS USING CITY CONCRETE STANDARD MIX WITHOUT AIR
ENGLAND. THE MINIMUM WALL THICKNESS FOR ALL MANHOLES
RING AS SHOWN ON THE DRAWINGS WHERE MANHOLES ARE CONSTRUCTED IN
UNPAVED AREAS. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE
18" OR SMALLER THAN 24" SHALL BE 12" THICK. MANHOLES
CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN
INSIDE DIAMETER OF 5'. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS

14. 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.

18. A BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRABE AND THE CONCENTRIC COKE. THE COLLAR WILL HAVE 8" WALLS AND A VERTICAL HEIGHT OF 8" MINIMUM AND 18" MAXIMUM. A 1" COAT OF MORTAR WILL BE PLASTERED ON THE OUTSIDE OF THE COLLAR.

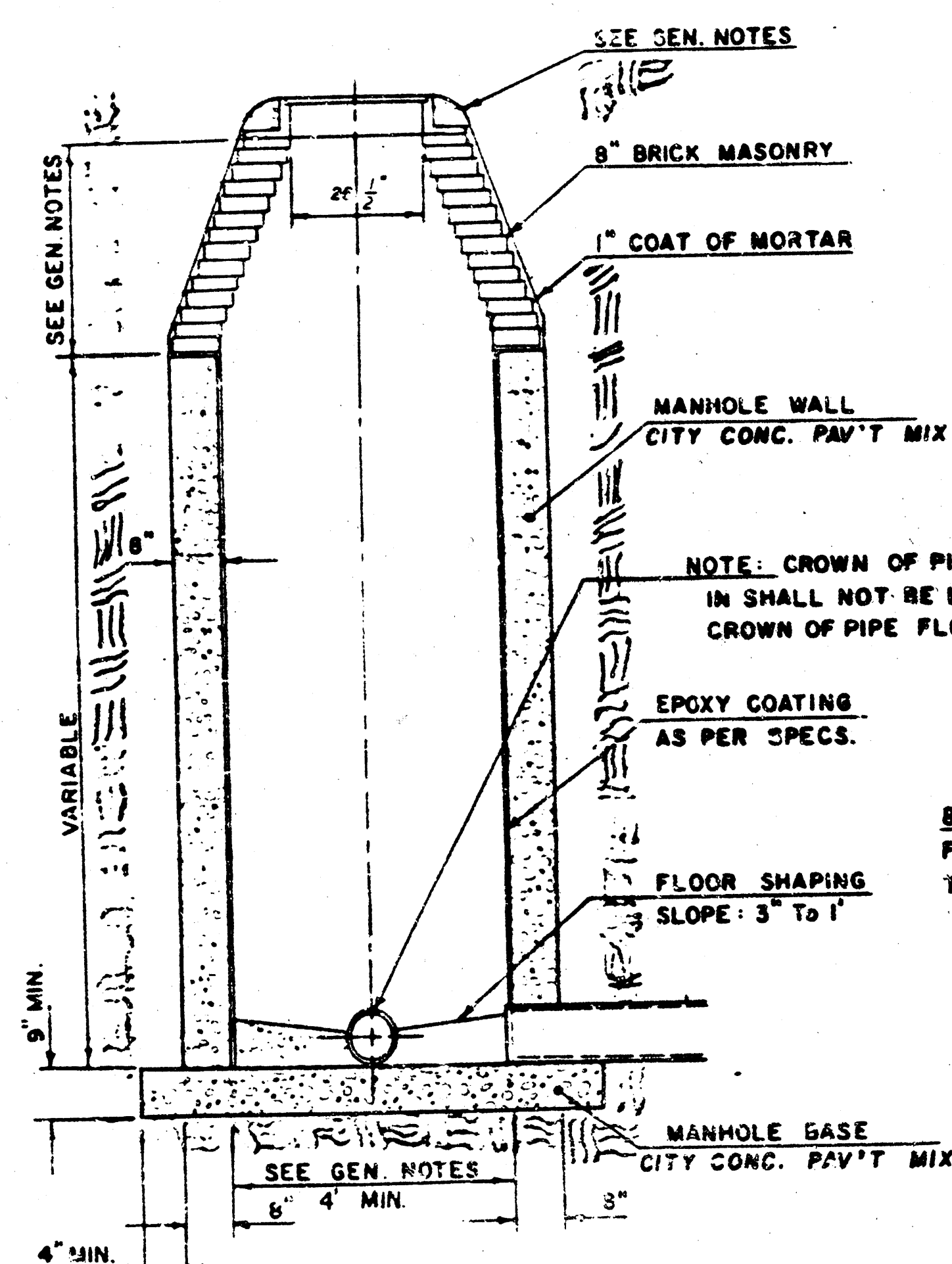
SEWER APPURTENANCES DETAILS

ADOPTED AS STANDARD DESIGN

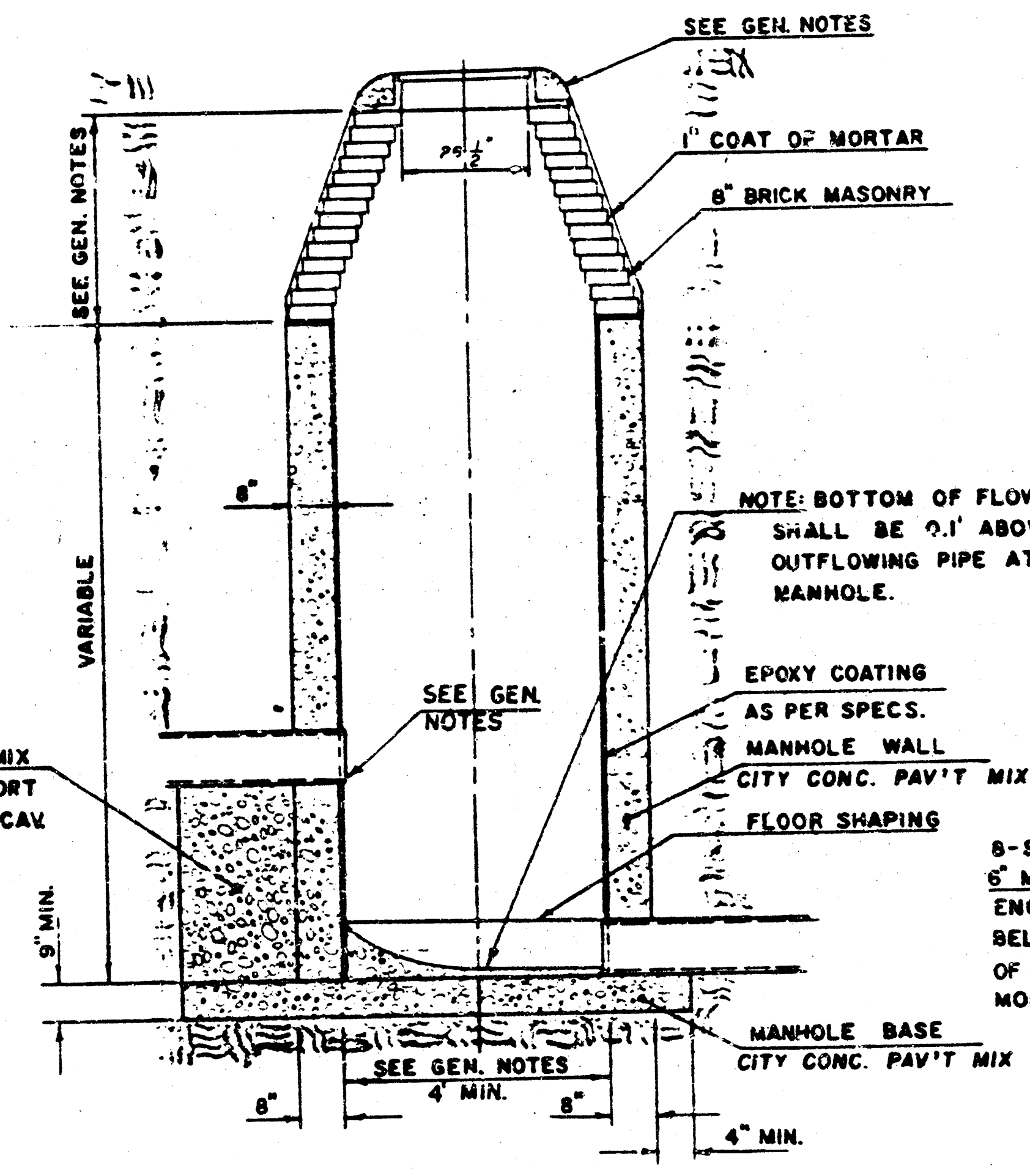
BY

CITY OF WICHITA, KANSAS

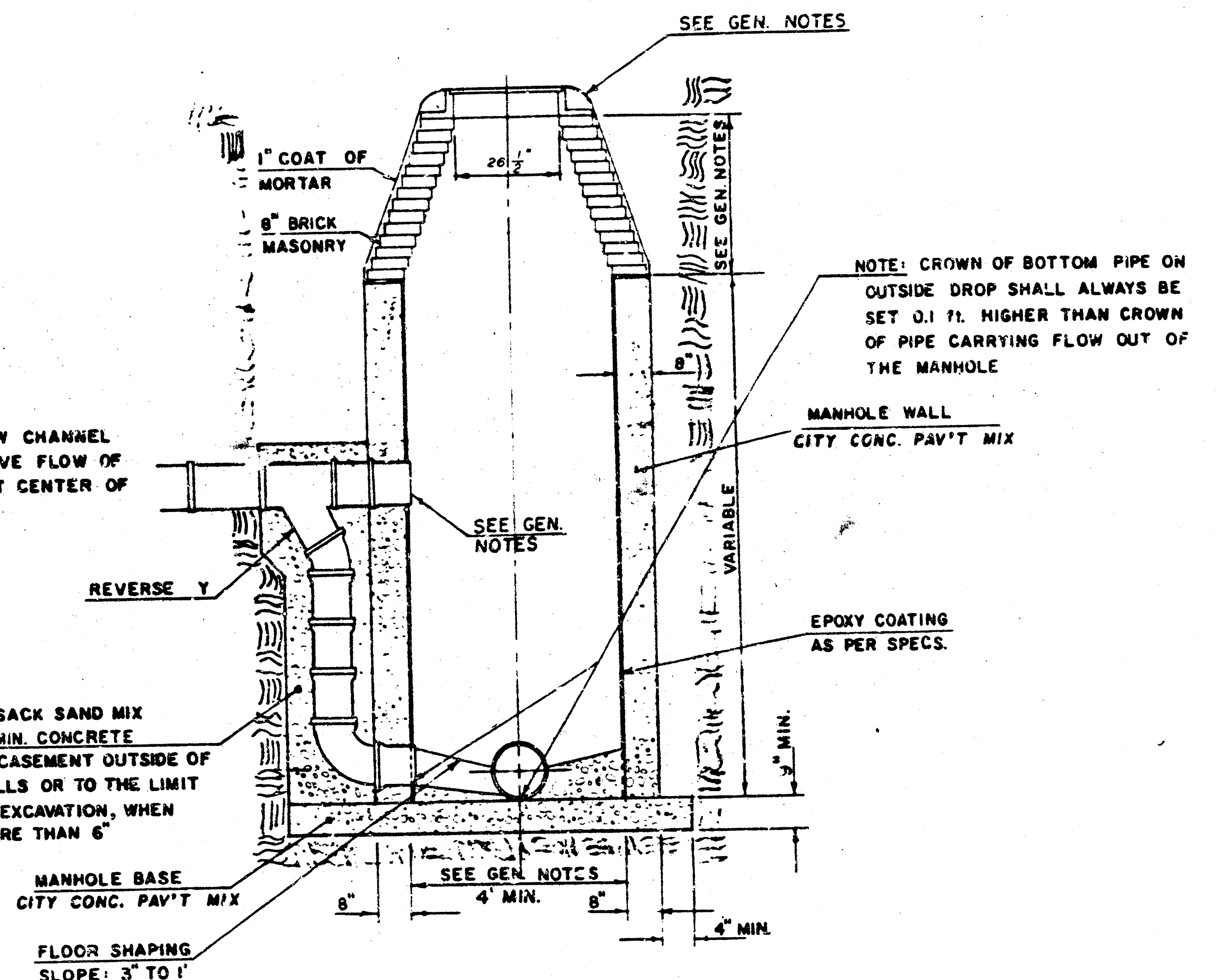
TYPE "D" MANHOLE



TYPE "D" INSIDE DROP MANHOLE



TYPE "D" OUTSIDE DROP MANHOLE



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 C 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.
ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WALL WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE PROTECTED BY AN APPROVED EPOXY COATING. TYPE "D" MANHOLES MAY BE USED ON PIPE SIZES 8" TO 36" WHEN THE MANHOLE DEPTH EXCEEDS THE REQUIRED CORBEL HEIGHT BY 1' PLUS THE OUTSIDE DIAMETER OF THE LARGEST PIPE IN THE MANHOLE.
MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24" SHALL HAVE A DIAMETER OF 4'. MANHOLES CONSTRUCTED WHERE THE PIPE SIZES ARE 24" OR LARGER SHALL HAVE A DIAMETER OF 5'. THE HEIGHT OF THE CORBELS ON 4' DIAMETER MANHOLES SHALL BE 4'. MANHOLES HAVING A DIAMETER OF 5' SHALL HAVE CORBELS 6' IN HEIGHT. 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 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. 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-SHRINK GROUT. THE EXTERIOR OF THIS COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. THE INTERIOR PLASTIC LINING SHALL BE SEALED AROUND THE INLET PIPE OPENING IN SUCH A MANNER THAT WILL EFFECTIVELY MAINTAIN THE INTEGRITY OF THE PROTECTIVE PLASTIC LINER.
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 SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LEAVING THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO REVEAL LINED 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.

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 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.

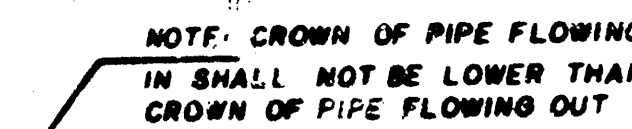
8. STANDARD MANHOLES TYPE "D" AND STANDARD INSIDE DROP MANHOLES TYPE "D" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES TYPE "D" SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.

NOTE: EPOXY COATING ON INTERIOR CONCRETE SURFACES MAY BE DELETED WHEN TYPE "D" MANHOLES ARE CONSTRUCTED ON SEWERS WITH DIAMETERS SMALLER THAN 10".

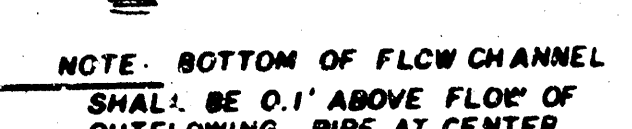
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BY

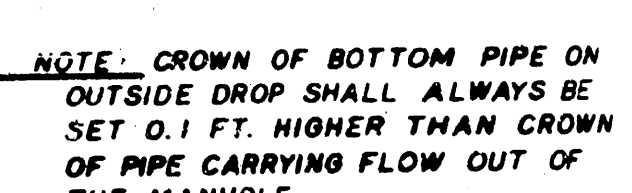
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[illegible]

8" BRICK
1" COAT C
MANHOLE WALL
CITY CONC FAV'T



8³ BRICK
COAT O



1. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 BAGS 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. ALL CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINMENT. MORTAR SHALL BE PLACED AROUND THE MANHOLE AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED ON 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 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. AN OPERING 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-SHRINK GROUT. THE EXTERIOR OF THIS COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT.
4. THE FLOOR 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 SHOWN ON THE BOTTOM OF THE DRAWING. THE DRAWING OF THE OUTFLOWING FLOW AS SHOWN ON THE DRAWINGS EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. MANHOLE FLOWS

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 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.

7. THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 4" FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPE LARGER THAN 12". THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.

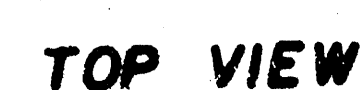
5/6
Sht. 5 of 6

7

BY

MANHOLE COVER

Weight: 180-Lbs.



* OUTSIDE DIA TOP OF COVER
** OUTSIDE DIA. BOTTOM OF COVER

MANHOLE FRAME

Weight: 240 Lbs.



GENERAL NOTES

1. MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO THE CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.
2. MANHOLE CASTINGS SHALL BE COATED WITH AN ASPHALT PAINT RESULTING IN A SMOOTH, TOUGH 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 ENTIRE 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 OR FRAME WAS CAST. THE COVER SHALL BE IDENTIFIER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1" IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT" IF THE WORD "DEPARTMENT" MAY BE ABBREVIATED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN A CHECKERED PATTERN WHICH IS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE USED 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.