LATERAL 199, SOUTHWEST INTERCEPTOR SEWER

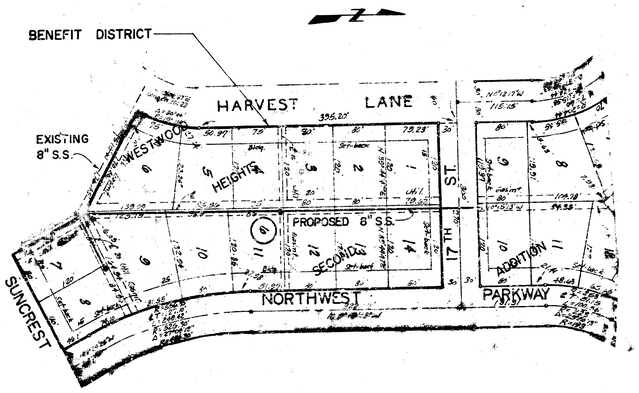
CITY PROJECT NO. 468-76-245-81428-000-000-001

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK CITY ENGINEER

DRAWING INDEX

SHEET	
1	COVER SHEET
2	PLAN & PROFILE
3	DETAIL SHEET
4	DETAIL SHEET
5	PLAT



GENERAL NOTES

1. 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 SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.

2. A PORTION OF EXCESS EXCAVATED MATERIAL SHALL BE MOUNDED AROUND MANHOLES WHICH EXTEND MORE THAN ONE (1) FOOT ABOVE THE EXISTING GROUND. SUCH MOUNDS SHALL BE CONSTRUCTED WITH A SIX (6) FOOT DIAMETER FLAT TOP WITH 4 TO 1 SIDE SLOPES DOWN TO THE ORIGINAL GROUND. THE ELEVATION OF THE FLAT TOP OF THE MOUND SHALL BE 0.4 FOOT BELOW THE TOP OF THE MANHOLE.

3. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF CONSTRUCTION SCHEDULING.

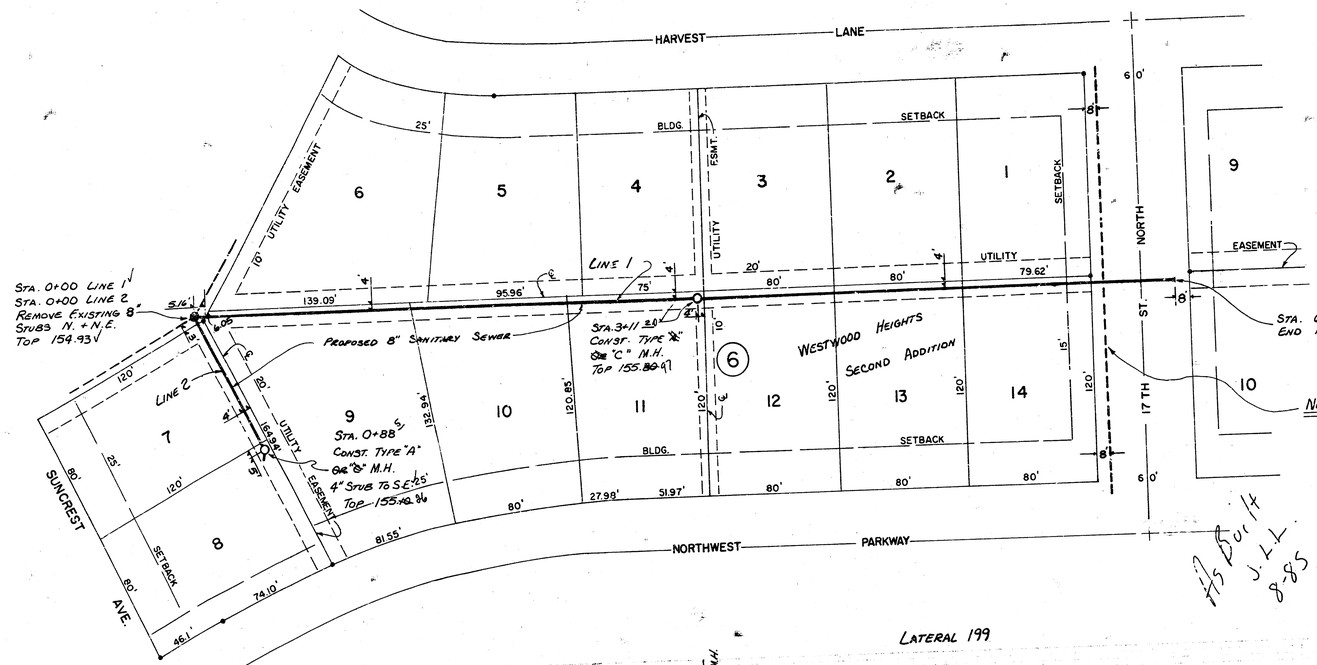
4. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.

5. ALL STUBS AND PLUGGED PIPES SHALL BE LOCATED WITH GREEN PLASTIC TAPE IN THE SAME MANNER AS RISERS.

As Built
J.L
8-85

JOHN E. GOUGH LICENSED 7786 KANSAS PROFESSIONAL ENGINEER

WICHITA, KANSAS SANITARY SEWER EXTENSIONS	
COVER SHEET LATERAL 199, SOUTHWEST INTERCEPTOR SEWER CITY PROJECT #(928-76-245-81428-000-000-001)	
CASTLE & ASSOCIATES ENGINEERS WICHITA, KANSAS	DSG JEG DR RJH CH JEG APP JEG
DWG FILE NO 8521-D-60,024	
DATE APRIL 1985	SHEET NO 1 OF 5 REV.

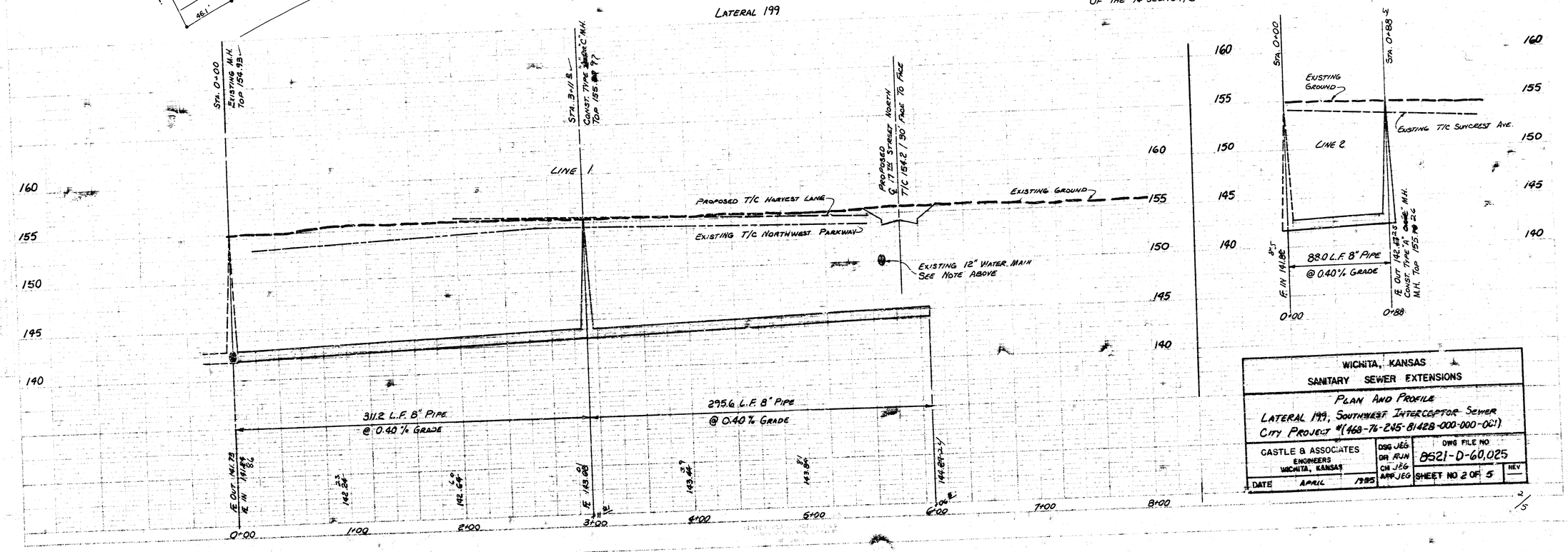


Legend
- Corner Found
- Corner Set

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

Note: City Of Wichita Air Test And Television Test Of New Line Shall Be Satisfactorily Complete Prior To Backfilling At Sta. 6+06.8

John E. Gough Licensed 7706 Kansas Professional Engineer



Wichita, Kansas	
Sanitary Sewer Extensions	
Plan And Profile	
Lateral 199, Southwest Interceptor Sewer	
City Project #(468-74-245-81428-000-000-001)	
Castle & Associates Engineers Wichita, Kansas	DSG JEG / DR RJN / CH JEG / APP JEG
Date April 1985	Dwg File No B621-D-60,025
	Sheet No 2 Of 5 — Rev —

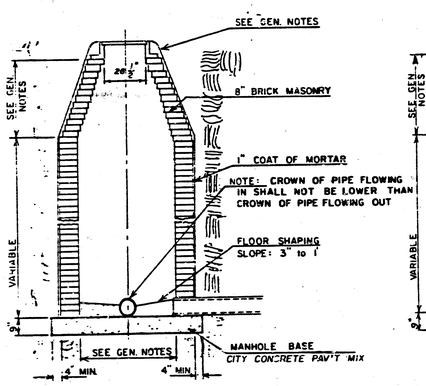
REVISED SEPTEMBER 1980
REVISED DECEMBER 1981

SEWER APPURTENANCES DETAILS

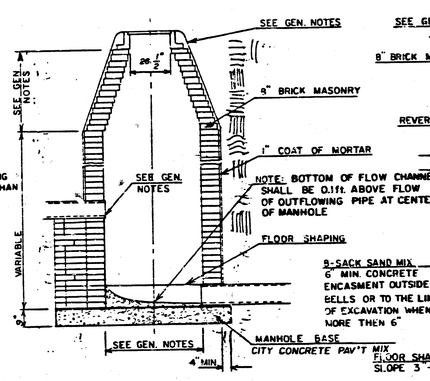
ADOPTED AS STANDARD DESIGN BY

CITY of WICHITA, KANSAS

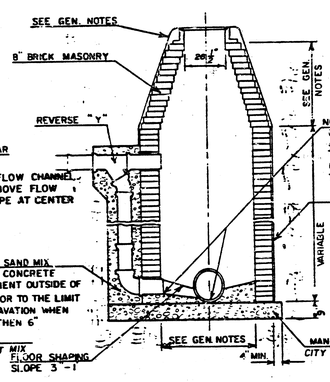
TYPE "A" MANHOLE



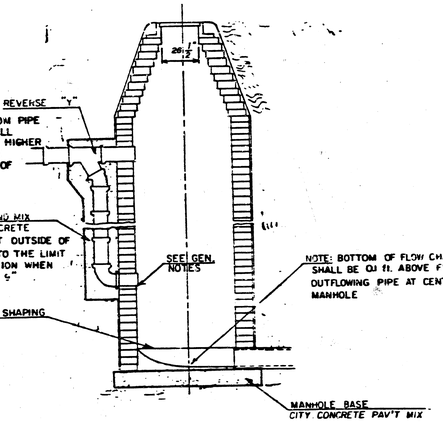
TYPE "A" INSIDE DROP MANHOLE



TYPE "A" OUTSIDE DROP MANHOLE



DETAIL OF OUTSIDE DROP CONSTRUCTED ON EXISTING MANHOLE



GENERAL NOTES

1. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 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 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 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 FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.

3. 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 GASKETS SHALL BE USED WITH P.V.C. AND A.B.S. COMPOSITE PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED NONSHRINK 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 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 FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.

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 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.

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 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.

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 "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.

JOHN E. GOUCH LICENSED 7706 KANSAS PROFESSIONAL ENGINEER

WICHITA, KANSAS
SANITARY SEWER EXTENSIONS

DETAIL SHEET
LATERAL 199, SOUTHWEST INTERCEPTOR SEWER
CITY PROJECT #(428-76-245-81428-000-000-001)

CASTLE & ASSOCIATES ENGINEERS WICHITA, KANSAS	D&G DR CH APP	DWG FILE NO 8521-D-60,026
DATE APRIL 1985		SHEET NO 3 OF 5 REV —

3/5

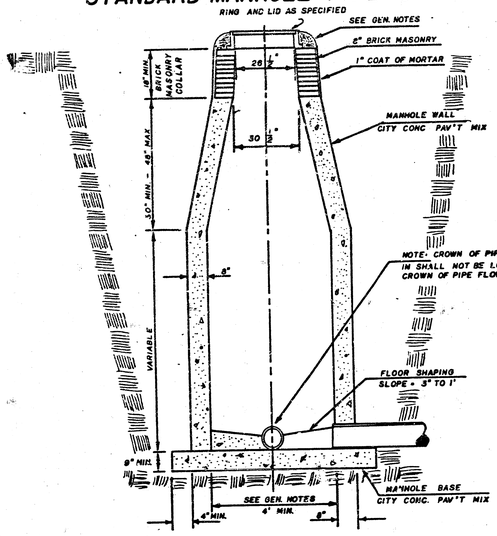
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SEWER APPURTENANCES DETAILS

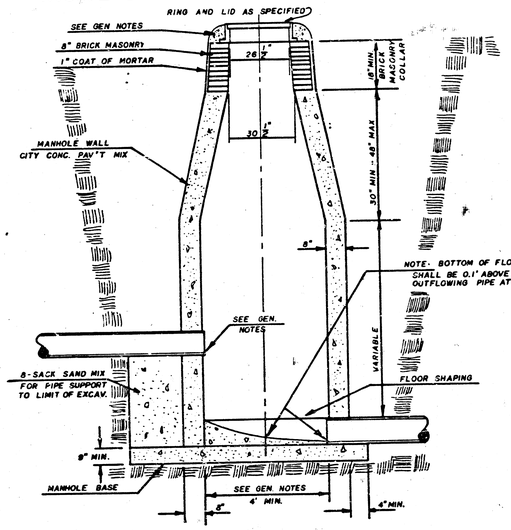
ADOPTED AS STANDARD DESIGN
BY

City of Wichita, Kansas

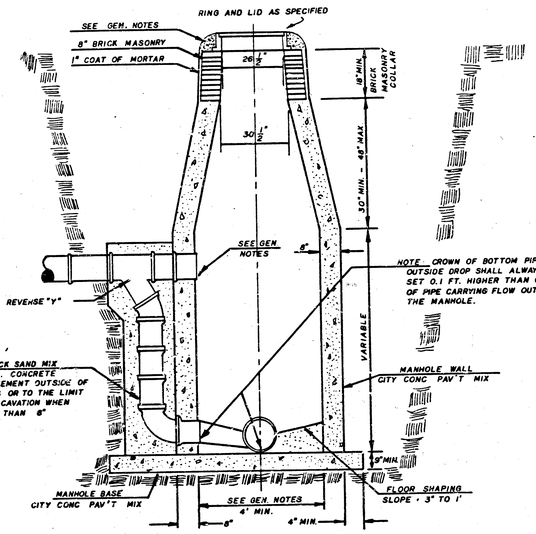
STANDARD MANHOLE TYPE "C"



INSIDE DROP MANHOLE TYPE "C"



OUTSIDE DROP MANHOLE TYPE "C"



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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.

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JOHN E. GOUGH — ENGINEER — 7783 — KANSAS — PROFESSIONAL ENGINEER

WICHITA, KANSAS SANITARY SEWER EXTENSIONS		
DETAIL SHEET LATERAL 199, SOUTHWEST INTERCEPTOR SEWER CITY PROJECT #(428-76-245 - 81428-000-000-001)		
CASTLE & ASSOCIATES ENGINEERS WICHITA, KANSAS	DSG DR CH APP	DWG FILE NO 8521-D-60,027
DATE APRIL 1985		SHEET NO 4 OF 5 — REV. —

JNL JAN. 1982

4/5

H-2 8-23 A

WESTWOOD HEIGHTS
SECOND ADDITION

WICHITA KANSAS

State of Kansas } SS. This is to certify that this plat was refiled for record in the office of the Register of Sedgwick County } SS. Deeds this ___ day of ___ 1985, at 8 o'clock A.M.; to make the following corrections: the radius along the front line of Lots 9 & 10, Block 4 from 69.31' to 147.31'; the arc dist. along the front of Lot 2, Block 3, from 65.34' to 68.94'; the radius along the front of Lots 1 & 2, Block 3, from 434.6' to 466.8'; the arc dist. along the front of Lot 2, Block 4, from 43.91' to 44.13'; the arc dist. along the center-line of Smarsh Lane between Lots 7 & 8, Block 4 and Lots 10, 11 & 12, Block 5, from 107.30' to 107.25'; the arc dist. along the front of Lot 11, Block 4, from 68.74' to 69.74'; the arc dist. along the center-line of Smarsh Lane between Lots 6 & 5, Block 8 and Lot 30, Block 11, from 36.82' to 36.32'; the arc dist. along the south line of Lot 30, Block 11, from 3.42' to 3.0'; the arc dist. along the east line of Lot 12, Block 15, from 66.17' to 65.96'; the arc dist. along the center-line of Northwest Parkway between Lot 1, Blocks 3 and Lots 11 & 12, Block 15 from 100.5' to 100.96'; the central angle of the curve on Holland Lane between Blocks 13 & 14, from 32°03'17" to 32°02'17";

Bette F. McCart — Register of Deeds

Pat Ketter — Deputy

WESTWOOD HEIGHTS ADDITION
WESTWOOD HEIGHTS SECOND ADDITION
BELLA VISTA
19TH ST. NO.
17TH ST. NO.
NORTHWEST PKWY
NORTHWEST CT.
BELLA VISTA CT.
WOODCHUCK LANE
EMERSON LANE
HOLLAND LANE
SMARSH LANE
TONY LANE
BITTERSWEET LANE
BRUNSWICK CIR.
TUNIS CIR.
PARKWAY
WESTPORT AVE.
SUNCREST AVE.
HARVEST LANE
C. FRAMER ST.
BRUNSWICK LANE
RIDGE ROAD

1" = 100'

JOHN E. GOUGH LICENSED 7706 KANSAS PROFESSIONAL ENGINEER

WICHITA, KANSAS
SANITARY SEWER EXTENSIONS
PLAT
WESTWOOD HEIGHTS SECOND ADDITION
WICHITA, KANSAS

CASTLE & ASSOCIATES ENGINEERS WICHITA, KANSAS	DSG DR CH APP	DWG FILE NO 8521-D-60,028
DATE APRIL 1985		SHEET NO 5 OF 5

H-2 8-23 A