CONSTRUCTION PLANS FOR SANITARY SEWER SYSTEM EXTENSIONS

SPENCER GARDENS 2ND ADDITION
TO
THE CITY OF WICHITA, KANSAS

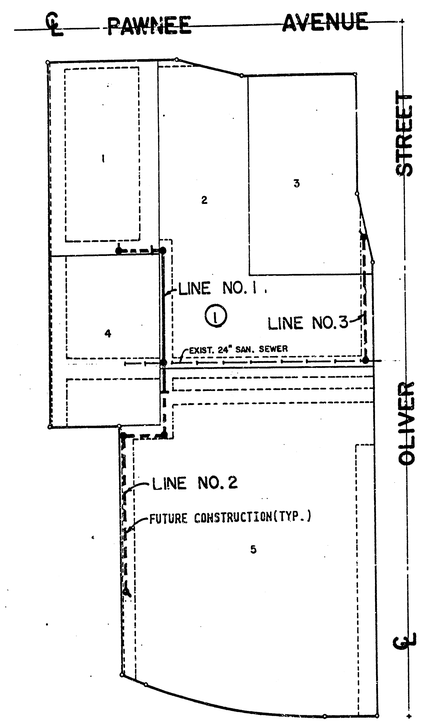
PRIVATE SANITARY SEWER EXTENSION

PROJECT NO. 468-76-245-80001-000-000-174

MICHAEL E. LINDEBAK, P.E.-CITY ENGINEER

GENERAL NOTES

1. Contractor shall provide for Construction Staking.
2. Contractor shall provide T.V. Inspection and Air Test.
3. Inspection shall be paid for by Owner and furnished by Engineer.
4. The Contractor shall be responsible for maintaining continuous flow of sewage through construction. Contractor proposed method for maintaining sewage flow shall be approved by the Engineer. Cost of maintaining flow of sewage through construction will not be paid for directly and this cost shall be considered as subsidiary to the other pay items of work.
5. The Contractor shall be responsible for preserving property irons. The Contractor will 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.
6. All construction shall conform to the Standard City of Wichita Specifications for the Installation of Sanitary Sewers.
7. Contractor shall verify Top of Manhole grades with Paving Contractor and adjust if necessary.



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BENCH MARKS

B.M. #1 City of Wichita Std. Disc 52' N. and 42' E. of the centerlines of Oliver and Pawnee. Elev. 121.146

APPROVED AS NOTED
By CITY ENGINEER OF WICHITA

Sanitary Sewers VRH 7/29/88

Storm Sewers _____

Driveway Approaches _____

Water Mains _____

Paving _____

Booked RPL 10-11-88

NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR THE PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

KENNY E. HILL LICENSED 7690 KANSAS PROFESSIONAL ENGINEER

JULY 1988

PLANS PREPARED BY

POE & ASSOCIATES OF KANSAS INC.
CONSULTING ENGINEERS
434 N. Oliver, Suite 110 ■ Wichita, KS 67208 ■ 316/685-4114

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STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

OLIVER STREET

PAWNEE AVENUE

-LINE NO. 3-

-LINE NO. 1-

-LINE NO. 2-

Sta. 0+00 Line No. 3
Const. Std. MH Type "A" or "C"
W/ Outside Drop

Sta. 1+80 Line No. 3
Const. Std. MH Type "A" or "C"
Install 1 - 4" Stub NW
F.L. 111.83

Sta. 0+00 Line No. 1
Sta. 0+00 Line No. 2
Const. Std. MH Type "A" or "C"
(Outside Drop)

Sta. 1+68.9 Line No. 1
Const. Std. MH Type "A" or "C"

Sta. 2+35 Line No. 1
Const. Std. MH Type "A" or "C"
Install 1 - 4" Stub North
F.L. 111.33

Sta. 1+75 Line No. 1
Cap Line
Begin Private Project

Sta. 0+55 Line No. 2
Cap Line 5' Beyond
Pavement Limits (Verify Station)
End of Private Project

Sta. 0+00 Line No. 1
Sta. 0+00 Line No. 2
Const. Std. MH Type "A" or "C"
W/ outside Drop

Sta. 1+05.1 Line No. 2
Const. Std. MH Type "A" or "C"

Sta. 1+70.1 Line No. 2
Const. Std. MH Type "A" or "C"

Sta. 4+00 Line No. 2
Const. Std. MH Type "A" or "C"
Install 1 - 4" STub SE
F.L. 107.33

Sta. 1+80 Line No. 3
Const. Std. MH Type "A" or "C"
Install 1 - 4" Stub NW

FUTURE CONSTRUCTION (TYP.)

℄ 30' SANITARY SEWER ESMT.

EXIST. 24" SAN. SEWER

EXIST. ROAD

EXIST. FENCE

IRON (TYP.)

KG B E MH

TP

20' UTILITY ESMT.

B.M. #1 City of Wichita Std. Disc 52' N and 42' E of the centerlines of Oliver and Pawnee. Elev. 121.146

SCALE IN FEET
HORIZ. 40 0 40 80
VERT. 0 5

LINE NO. 1

Sta. 0+00 Line No. 1 Sta. 0+00 Line No. 2 Const. Std. MH Type "A" or "C" (Outside Drop)
Sta. 1+68.9 Line No. 1 Const. Std. MH Type "A" or "C"
Sta. 1+75 Begin Project
Sta. 2+35 Line No. 1 Const. Std. MH Type "A" or "C" Install 1 - 4" Stub N

Finish Ground
Exist. Ground Profile
Top MH Elev. 116.1
Top MH Elev. 116.8
Top MH Elev. 117.2
Cap Line
235 L.F. 8" Pipe @ 0.85% Grade

LINE NO. 2

Sta. 0+00 Line No. 1 Sta. 0+00 Line No. 2 (Outside Drop MH)
Sta. 0+55 End Project
Sta. 1+05.1 Line No. 2 Const. Std. MH Type "A" or "C"
Sta. 1+70.1 Line No. 2 Const. Std. MH Type "A" or "C"
Sta. 4+00 Line No. 2 Const. Std. MH Type "A" or "C" Install 1 - 4" Stub SE

Finish Ground
Exist. Ground Profile
Top MH Elev. 116.1
Top MH Elev. 115.5
Top MH Elev. 114.0
Cap Line
400 L.F. 8" Pipe @ 0.4% Grade

LINE NO. 3

Sta. 0+00 Line No. 3 Const. Std. MH Type "A" or "C" (Outside Drop)
Sta. 1+80 Line No. 3 Const. Std. MH Type "A" or "C" Install 1 - 4" Stub NW

Finish Ground
Exist. Ground Profile
Top MH Elev. 119.5
180 L.F. 8" Pipe @ 0.6% Grade

POE & ASSOCIATES OF KANSAS INC. "As Built" 9-16-88
CONSULTING ENGINEERS
434 N. Oliver, Suite 110 ■ Wichita, KS 67208 ■ 316/685-4114

ENGINEER	K.H.
ENG. TECH	T.B.
DRAWN BY	T.B.
DATE	7-26-88
SHEET	2 OF 5

CITY OF WICHITA, KANSAS
SPENCER GARDENS 2 ND ADDITION
SANITARY SEWER SYSTEM EXTENSIONS 2/6
PROJECT NO. 468-76-245-80001-000-000-179

PLAN: SURVEYED, PLOTTED, NOTE BOOK, GRADES CHECKED, ALIGNMENT CHECKED, NO. OF PAGES, STRUCTURE NOTATION CHKD, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, NOTE BOOK, GRADES CHECKED, ALIGNMENT CHECKED, NO. OF PAGES, STRUCTURE NOTATION CHKD, NO., BY, DATE

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STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

OLIVER STREET

PAWNEE AVENUE

LINE NO. 3

LINE NO. 1

LINE NO. 2

Sta. 0+02 Line No. 3
Const. Std. MH Type "A" or "C"
W/ Outside Drop

Sta. 1+80 Line No. 3
Const. Std. MH Type "A" or "C"
Install 1 - 4" Stub NW
F.L. 111.83

FUTURE CONSTRUCTION (TYP.)

20' UTILITY ESMT.

5'

8" EXIST. 24" SAN. SEWER

℄ 30' SANITARY SEWER ESMT.

Sta. 0+55 Line No. 2
Cap Line 5' Beyond
Pavement Limits (Verify Station)
End or Private Project

Sta. 0+00 Line No. 1
Sta. 0+00 Line No. 2
Const. Std. MH Type "A" or "C"
W/ Outside Drop

Sta. 1+64.9 Line No. 1
Const. Std. MH Type "A" or "C"

Sta. 1+05.1 Line No. 2
Const. Std. MH Type "A" or "C"

Sta. 1+70.1 Line No. 2
Const. Std. MH Type "A" or "C"

Sta. 2+35 Line No. 1
Const. Std. MH Type "A" or "C"
Install 1 - 4" Stub North
F.L. 111.33

Sta. 4+00 Line No. 2
Const. Std. MH Type "A" or "C"
Install 1 - 4" Stub SE
F.L. 107.33

Sta. 1+75 Line No. 1
Cap Line
Begin Private Project

EXIST. ROAD

EXIST. FENCE

IRON (TYP.)

B.M. #1 City of Wichita Std. Disc 52' N and 42' E of the centerlines of Oliver and Pawnee. Elev. 121.146

SCALE IN FEET
HORIZ 40 0 40 80
VERT.

LINE NO. 1

Sta. 0+00 Line No. 1
Sta. 0+00 Line No. 2
Const. Std. MH Type "A" or "C"
(Outside Drop)

Sta. 1+64.9 Line No. 1
Const. Std. MH Type "A" or "C"

Sta. 1+75 Line No. 1
Cap Line
Begin Private Project

Sta. 2+35 Line No. 1
Const. Std. MH Type "A" or "C"
Install 1 - 4" Stub N

Top MH Elev. 116.1

Top MH Elev. 116.8

Top MH Elev. 117.2

Finish Ground

Exist. Ground Profile

Cap Line

235 L.F. 8" Pipe @ 0.85% Grade

95.31 100.30 105.36 110.80 110.70 116.00

LINE NO. 2

Sta. 0+00 Line No. 1
Sta. 0+00 Line No. 2
(Outside Drop MH)

Sta. 0+55 End Project

Sta. 1+05.1 Line No. 2
Const. Std. MH Type "A" or "C"

Sta. 1+70.1 Line No. 2
Const. Std. MH Type "A" or "C"

Sta. 4+00 Line No. 2
Const. Std. MH Type "A" or "C"
Install 1 - 4" Stub SE

Top MH Elev. 116.1

Top MH Elev. 115.8

Top MH Elev. 115.9

Top MH Elev. 114.0

Finish Ground

Exist. Ground Profile

Cap Line

400 L.F. 8" Pipe @ 0.4% Grade

95.31 105.20 105.42 105.62 105.72 105.91 106.00 106.20 106.60 107.00 110.42

LINE NO. 3

Sta. 0+00 Line No. 3
Const. Std. MH Type "A" or "C"
(Outside Drop)

Sta. 1+80 Line No. 3
Const. Std. MH Type "A" or "C"
Install 1 - 4" Stub NW

Top MH Elev. 119.5

Finish Ground

Exist. Ground Profile

160 L.F. 8" Pipe @ 0.6% Grade

111.02 111.50

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
DATE
BY
GRADES CHECKED
ALIGNMENT CHECKED
NO. OF MAP SHEETS
STRUCTURE NO'S MAP CHKD

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
DATE
BY
GRADES CHECKED
ALIGNMENT CHECKED
STRUCTURE NO'S MAP CHKD

POE & ASSOCIATES OF KANSAS INC.
CONSULTING ENGINEERS
434 N. Oliver, Suite 110 ■ Wichita, KS 67208 ■ 316/685-4114

ENGINEER K.H.
ENG. TECH. T.B.
DRAWN BY T.B.
DATE 7-26-88
SHEET 2 OF 5

CITY OF WICHITA, KANSAS
SPENCER GARDENS 2 ND ADDITION
SANITARY SEWER SYSTEM EXTENSIONS
PROJECT NO. 468-76-245-80001-000-000-174

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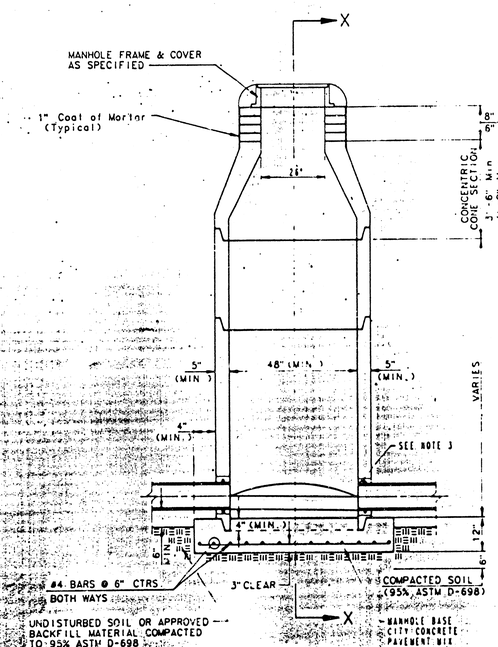
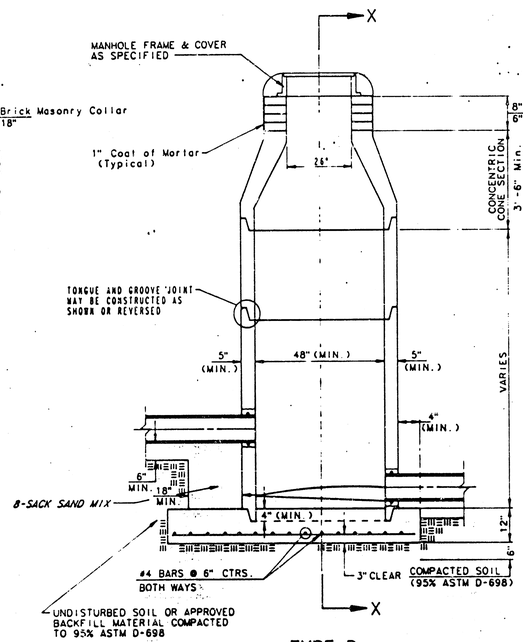
SEWER APPURTENANCES DETAILS

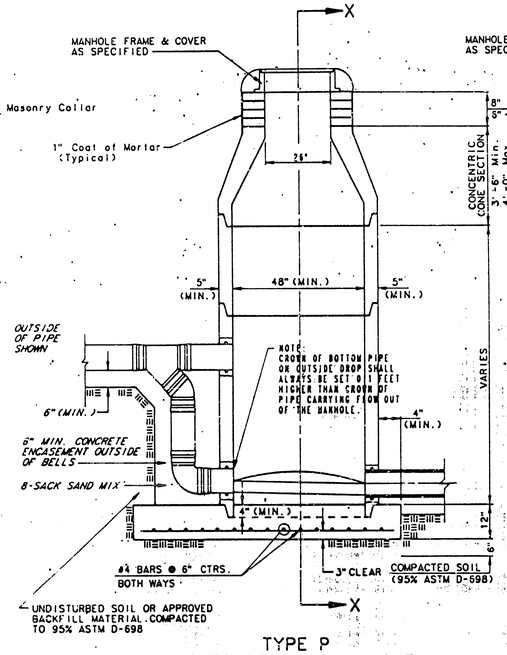
ADOPTED AS STANDARD DESIGN BY CITY OF WICHITA



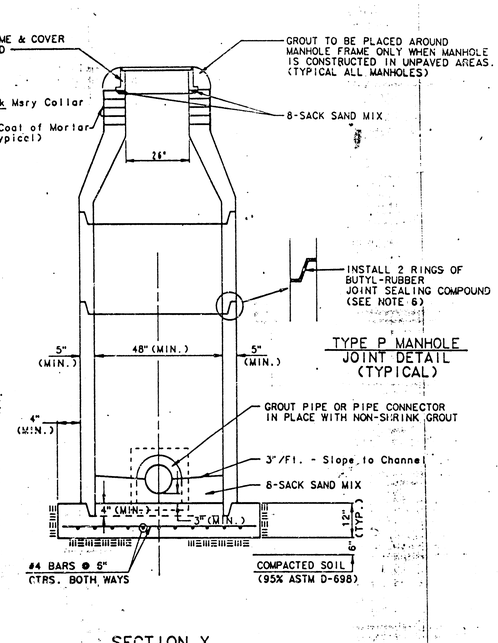
TYPE P
STANDARD MANHOLE



TYPE P
INSIDE DROP MANHOLE



TYPE P
OUTSIDE DROP MANHOLE



TYPE P MANHOLE
JOINT DETAIL
(TYPICAL)

SECTION X
(TYPICAL)

GENERAL NOTES

PRECAST MANHOLE NOTES

1. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF A.S.T.M. DESIGNATION C478 AND ASSOCIATED SPECIFICATIONS.
2. NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
3. APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A B.S. COMPOSITE PIPE OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER SHALL BE GROUTED IN PLACE WITH NON-SHRINK GROUT. THE SEWER PIPE SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
4. ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED WITH 2 COATS NEWEG SERIES 66 HI-BUILD EPOXOLINE, DRY THICKNESS OF 8 MILS (MIN.)
5. EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 633 BITUMINUS COATING.
6. JOINT SEALING COMPOUND SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.
7. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.
8. TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
9. LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
10. 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. 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'. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
11. 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 AT LEAST 3" 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.
12. 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. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
13. 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.
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.
15. 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.
16. 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.
17. STANDARD MANHOLES AND STANDARD INSIDE DROP MANHOLES 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.
18. A BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRAME AND THE CONCENTRIC CONE. THE COLLAR WILL HAVE 8" WALLS AND A VERTICAL HEIGHT OF 6" MINIMUM AND 18" MAXIMUM. A 1" COAT OF MORTAR WILL BE PLASTERED ON THE OUTSIDE OF THE COLLAR.

3/5

Revised: Jun Revised: June 12, 1986

CITY OF WICHITA, KANSAS
SPENCER GARDENS 2ND ADDITION
SANITARY SEWER SYSTEM EXTENSIONS
PROJECT NO. 468-76-245-00001-000-000-174

4/6

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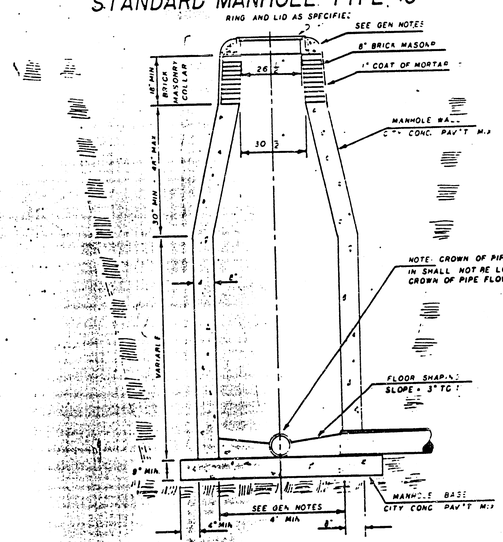
SEWER APPURTENANCES DETAILS

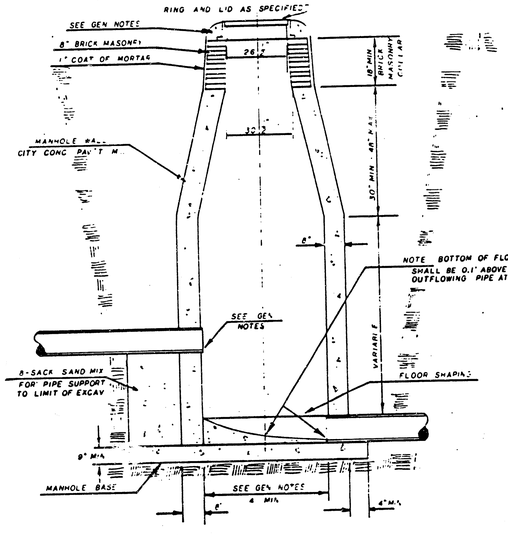
ADOPTED AS STANDARD DESIGN
BY

City of Wichita, Kansas

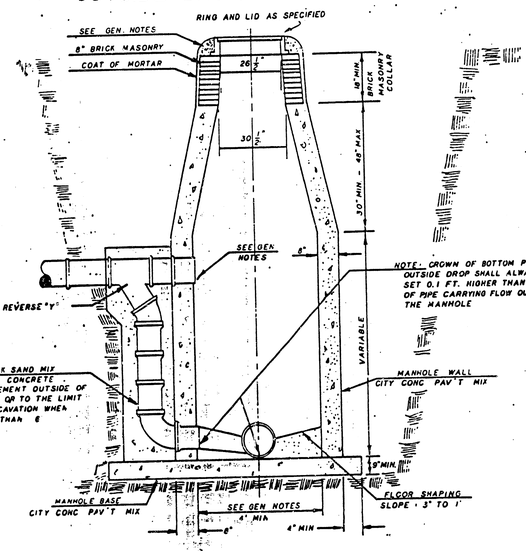
STANDARD MANHOLE TYPE "C"



INSIDE DROP MANHOLE TYPE "C"



OUTSIDE DROP MANHOLE TYPE "C"



GENERAL NOTE:

1. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 6 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES AND 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 #1 BUT AIR ENTRAINING ADMIXTURES SHALL NOT BE PERMITTED. MANTA SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. TYPE "C" MANHOLES MAY BE CONSTRUCTED OVER 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 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.

4. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF ANIMAL WASTE SOLIDS SOLIDS DEPOSITED AS NORMAL FLOWS THROUGH THE MANHOLE FROM ANY 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 ON THE DRAWINGS EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED ON THE DRAWINGS. 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 AWAREST 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 PIPE LARGER THAN 12". THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.

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

4/5

CITY OF WICHITA, KANSAS
SPENCER GARDENS 2 ND ADDITION
SANITARY SEWER SYSTEM EXTENSIONS
PROJECT NO. 468-78-285-80001-000-000-174

JNL JAN. 1982

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STATE OF KANSAS }
COUNTY OF SEDGWICK } SS.

We, Kenny E. Hill, and William P. Fox, being duly licensed respectively as a Professional Engineer and Land Surveyor in said County and State, do hereby certify that we have platted and surveyed SPENCER GARDENS 2nd ADDITION to Wichita, Sedgwick County, Kansas, being a replat of Lot 3, Lot 5 and part of Lots 2 and 4, Block A, SPENCER GARDENS ADDITION to Wichita, Sedgwick County, Kansas, being described as follows:

Beginning at the Northeast Corner of Lot 5, Block A, SPENCER GARDENS ADDITION to Wichita, Sedgwick County, Kansas; thence S 89°38'37" W for a distance of 175 feet; thence N 76°19'12" W for a distance of 103.08 feet; thence S 89°38'37" W for a distance of 201.72 feet; thence S 00°16'20" W for a distance of 530.00 feet; thence N 89°38'37" E for a distance of 107.00 feet; S 00°16'20" W for a distance of 368.15 feet; thence S 69°17'40" E for a distance of 37.92 feet; thence on a circular curve to the left having a radius of 786.73 feet and a central angle of 20°26'00" for an arc distance of 280.57 feet; thence S 89°43'40" E for a distance of 84.78 feet; thence N 00°16'20" E for a distance of 103.08 feet; thence N 00°16'20" E for a distance of 664.94 feet; thence N 13°45'50" W for a distance of 103.08 feet; thence N 00°16'20" E for a distance of 175.00 feet to the point of beginning, containing 9.61 acres more or less. The accompanying plat is a true and correct exhibit of property surveyed. The bearing of the centerline of Oliver is assumed to be S 00°16'20" W.

Dated this 16TH day of DECEMBER, 1987.

Kenny E. Hill, P.E.

William P. Fox, L.S.

KENNY E. HILL LICENSED 7690 PROFESSIONAL ENGINEER

WILLIAM P. FOX REGISTERED LS-799 KANSAS LAND SURVEYOR

KNOW ALL MEN BY THESE PRESENTS:

That we, the undersigned property owners of the land described in the Engineer's Certificate, have caused this land to be replatted into lots and a block. Easements are hereby granted as indicated for the construction and maintenance of drainage and utilities. Development of this property shall be in accordance with SPENCER GARDENS Commercial Community Unit Plan DP-163, a copy of which is on file in the Metropolitan Area Planning Department. Special provisions for building setback lines between Lots 2 and 3 are indicated on the DP-163 C.U.P. All abutters rights of access to and from Pawnee Avenue and Oliver Street over and across the North and East line of Block 1 are hereby granted to the City of Wichita, except for the 30 foot wide opening to Pawnee between Lot 2 and Lot 3 and except for two additional openings to Pawnee from Lot 1 or one opening to Pawnee per lot from Lot 1 and Lot 2, and except for one additional openings to Pawnee from Lot 1 or one opening South of the North 150 feet that Lots 2 and 3 shall have access control to Oliver except that Lot 5 shall have access to Oliver at 3 locations, said locations of all openings of these lots and except that Lot 5 shall have access control, platted easements, building setback lines, access control to be approved by the City Engineer of Wichita, Kansas. Platted easements, building setback lines, access control or other public reservations shall be vacated by this replat by virtue of K.S.A. 12-512(b) amended.

NANCY L. TAYLOR

JOE C. GUYOT

CHESTER A. HUPP

ROBERT L. WILSON

JAMES E. TAYLOR

JAMES E. TAYLOR, II

VICKI D. LEE

SANDRA J. POUNCEY

RUTH J. LOVE

LILA L. GUYOT

OLIVE M. HUPP

MABEL M. WILSON

MARGARET L. WILSON

JEFFREY E. TAYLOR

PAM TAYLOR

ROBERT E. LEE

MICHAEL POUNCEY

KNOW ALL MEN BY THESE PRESENTS:

That we, Industrial State Bank, holders of a mortgage on the property described in the Engineer's Certificate do hereby consent to the plat of SPENCER GARDENS 2nd ADDITION.

INDUSTRIAL STATE BANK
By W.R. Hook
W.R. Hook, President

ATTEST: Michael L. Cooney
Michael L. Cooney, Secretary

STATE OF KANSAS (WYANDOTTE) }
COUNTY OF ~~SEDGWICK~~ } SS.

Be it remembered, that on this 14TH day of December, 1987, before me a Notary Public in aforesaid County and State, came Industrial State Bank, by its President, W.R. Hook, to me known to be the same person who executed the foregoing instrument on behalf of the corporation, duly acknowledged by me.

In testimony whereof, I have hereunto set my hand and affixed my Notarial Seal the day and year above written.

Marcia Reardon
Notary Public MARCIA REARDON (SEAL)

My Appointment Expires: 9/11/90

This Plat of SPENCER GARDENS 2nd ADDITION to Wichita, Sedgwick County, Kansas has been submitted and approved by this WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION, Wichita, Kansas.

Dated this 3rd day of September, 1987

WICHITA SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION

John Terry Moore, Chairman

Marvin S. Krout, Secretary (SEAL)

This Plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this 10TH day of MAY, 1988.

Sheldon Kamen, Mayor
Sheldon Kamen

Dale L. Rea, Deputy City Clerk
Dale L. Rea

Entered on transfer record this 6 day of June, 1988.

Don Wright, County Clerk

STATE OF KANSAS }
COUNTY OF SEDGWICK } SS.

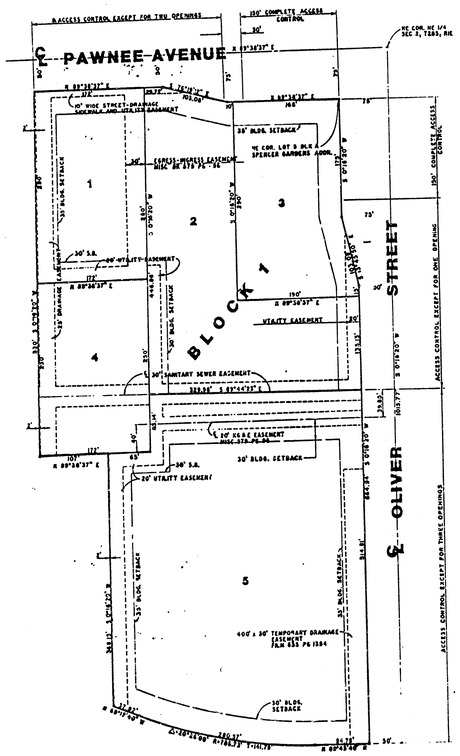
This is to certify that this instrument was filed for record in the Register of Deeds office at 11:00 A.M.-~~P.M.~~ on the 6TH day of JUNE, 1988.

950928

Pat Kettler, Register of Deeds
Pat Kettler

Ed Resa, Chief Deputy
Ed Resa

SEE PLATTORS TEXT



N SCALE: 1" = 100'

LEGEND
- o FOUND PROPERTY IRONS
- • SET PROPERTY IRONS

SPENCER GARDENS 2ND ADDITION

TO WICHITA, SEDGWICK COUNTY, KANSAS

20.00 L

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