CONSTRUCTION PLANS FOR STORM WATER SEWER

TO SERVE A PART OF

EASTMINSTER PRESBYTERIAN CHURCH

WICHITA, SEDGWICK COUNTY, KANSAS

CITY OF WICHITA, KANSAS

M.E. LINDEBAK CITY ENGINEER

PRIVATE PROJECT NO. 1044 PPS

OCA # 607861

August 2000

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Sanitary Sewer _____

Storm Sewers VRH 12/2/00

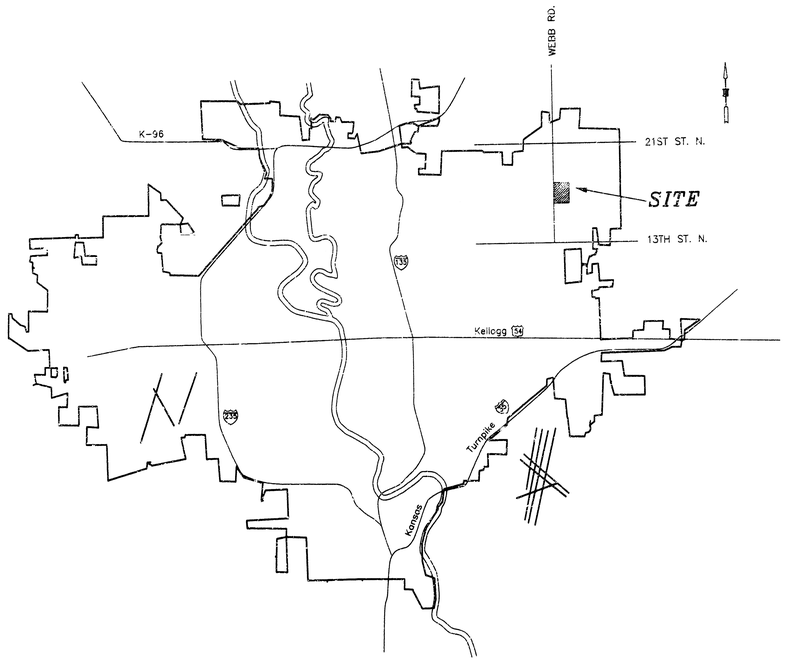
Driveway Approaches _____

Water Mains _____

Paving _____

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 IS 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.



NOTES

1. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE ADVANCE NOTICE OF TWENTY-FOUR (24) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

   KANSAS ONE-CALL 687-2470

   THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF EMERGENCY:

CABLEVISION	262-4270 OR 263-2331
KANSAS GAS & ELECTRIC (GAS)	263-7511
KANSAS GAS & ELECTRIC (ELECTRIC)	264-1141
ARKLA GAS COMPANY	942-8350 OR 263-8161
SOUTHWESTERN BELL TELEPHONE	1-571-2611
CITY OF WICHITA WATER DEPT.	268-4908
CITY OF WICHITA SEWER MAINTENANCE	268-4071

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO REESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE REESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.

3. UNLESS OTHERWISE SPECIFIED ON THE PLANS, MANHOLES MAY BE TYPE "B", "C" OR "D" MANHOLES. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS.

4. TRAFFIC WILL NOT BE AFFECTED IN THIS AREA OF CONSTRUCTION.

5. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.

INDEX

1. Covar Sheet
2. Plan & Profile
3-4. Standard Manhole Details
5. Final Plat of Eastminster Addition

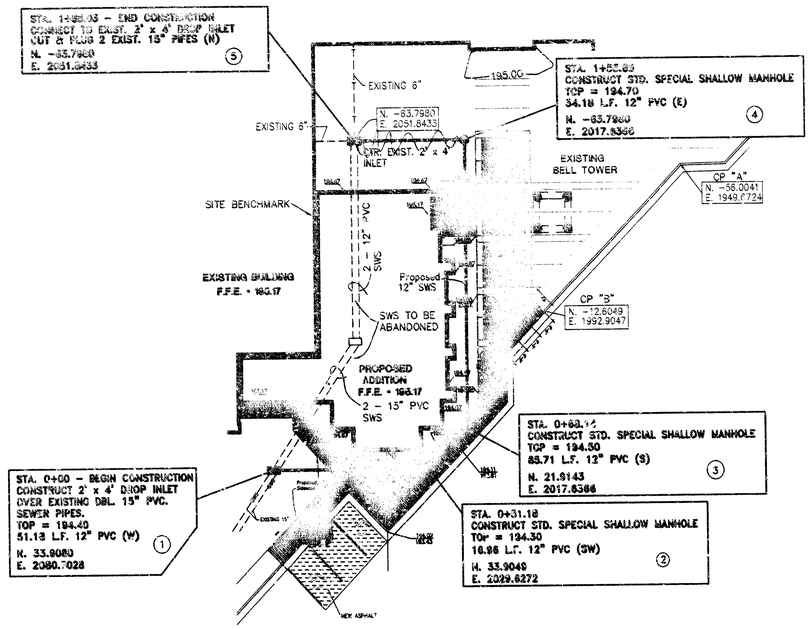
Booked
E-8
12/29/03
ROL
Per Plan

DON C. MOEHRING LICENSED 3463 KANSAS PROFESSIONAL ENGINEER

MOEHRING & ASSOCIATES
CONSULTING ENGINEERS
WICHITA

C:\SC2000\WORK\CHAPELSWSCOV.DWG

16 10 04 08

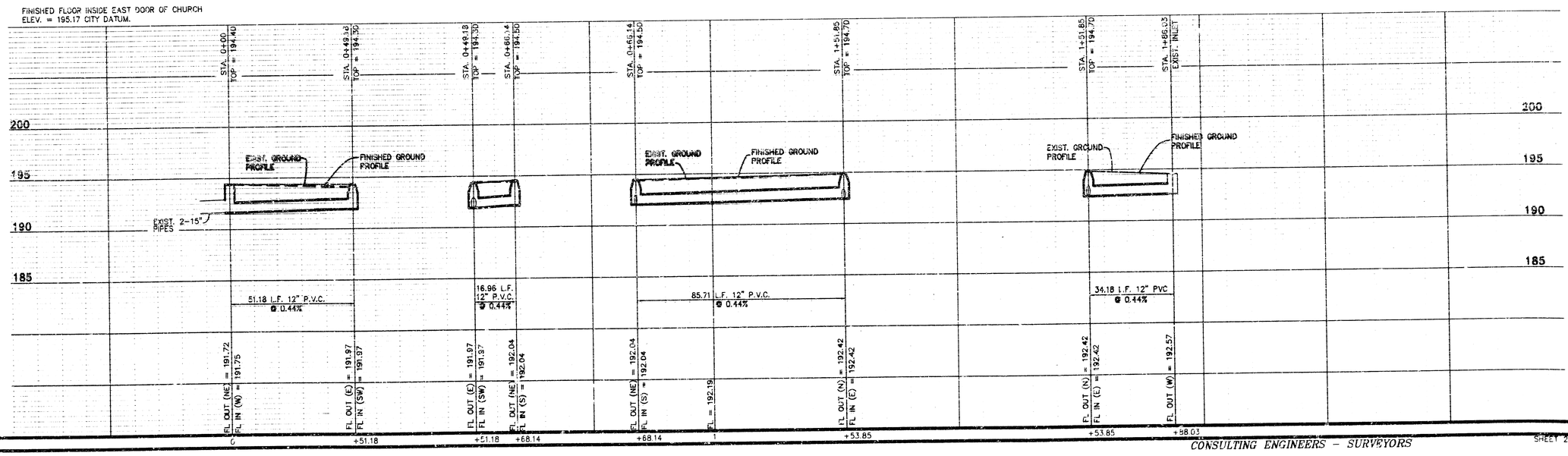


1" = 20' HORIZ.
1" = 5' VERT.

POINT #	N. COORD.	E. COORD.	POINT DESCRIPTION
CP "A"	-56.0041	1949.6724	60D NAIL, BK. OF CURB AT BEND IN CURB
CP "B"	-12.6049	1992.9047	60D NAIL, BK. OF CURB
CP "C"	514.2549	1733.0533	IRON - N.W. COR., EASTMINSTER ADDITION
CP "D"	294.2126	1783.3128	IRON, 50' E. OF N.W. COR., LOT 1, BLK. 2
CP "E"	294.2550	1733.3128	IRON - N.W. COR., LOT 1, BLK. 2
CP "F"	-828.6942	1734.6376	IRON - S.W. COR., LOT 1, BLK. 2
1	33.9080	2080.8028	CTR. NEW 2' x 4' DROP INLET (STA. 0+00)
2	33.9049	2029.6272	CTR. MANHOLE (STA. 0+49.18)
3	21.9143	2017.6366	CTR. MANHOLE (STA. 0+66.14)
4	-63.7980	2017.6366	CTR. MANHOLE (STA. 1+51.85)
5	-63.7980	2051.8433	CTR. EXIST. 2' x 4' DROP INLET (STA. 1+86.03)

BENCHMARK

FINISHED FLOOR INSIDE EAST DOOR OF CHURCH
ELEV. = 195.17 CITY DATUM.

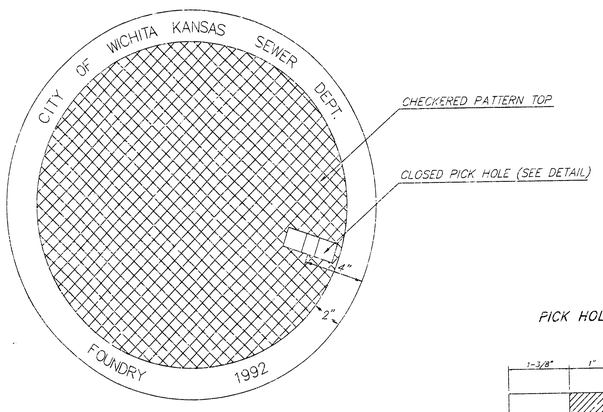


C:\SC2000\WORK\CHAPELSW01.DWG

MANHOLE FRAME AND COVER DETAIL

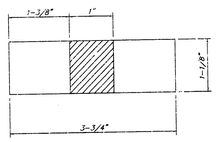
ADOPTED AS STANDARD DESIGN BY
CITY OF WICHITA, KANSAS

MANHOLE COVER
Weight = 180 Lbs.

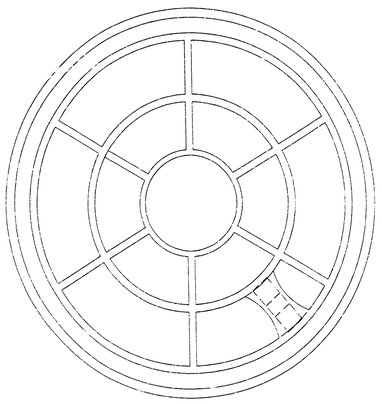


TOP VIEW

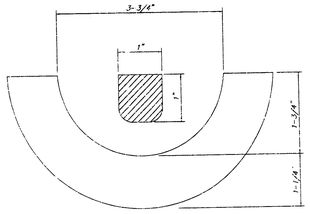
PICK HOLE DETAIL



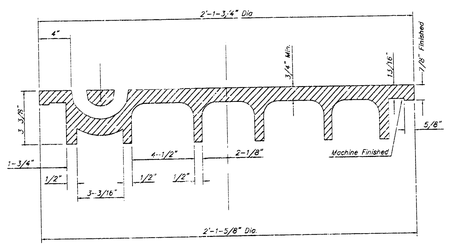
TOP VIEW



BOTTOM VIEW

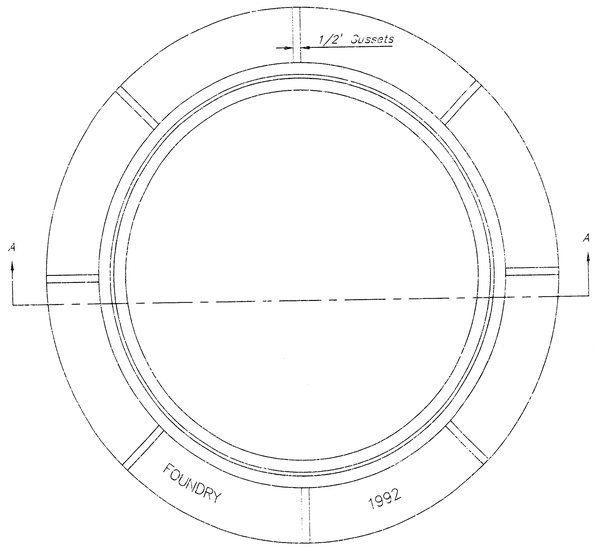


SECTION VIEW

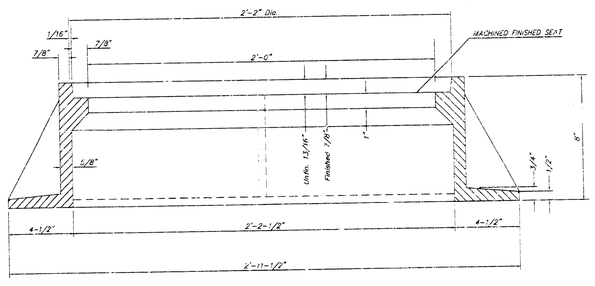


SECTION VIEW

MANHOLE FRAME
Weight = 240 Lbs.



TOP VIEW



SECTION A-A

GENERAL NOTES

MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO 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.

MANHOLE CASTINGS SHALL BE COATED WITH AN ASPHALT PAINT RESULTING IN A SMOOTH, TOUGH AND TENACIOUS COATING WHICH IS NOT BRITTLE OR TACKY.

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.

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 CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH AS THESE SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.

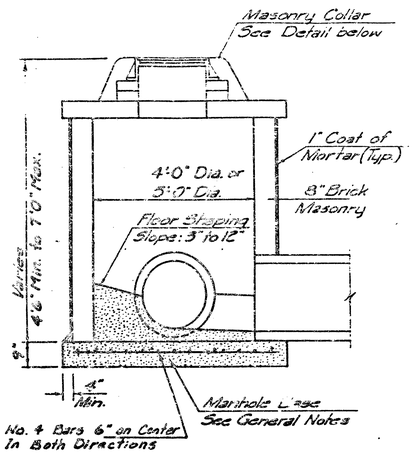
THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1 INCH IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT". THE WORD DEPARTMENT MAY BE ABBREVIATED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN A CHECKERED PATTERN DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED 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.

THE CITY OF WICHITA
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4601
(316) 268-4519 FAX

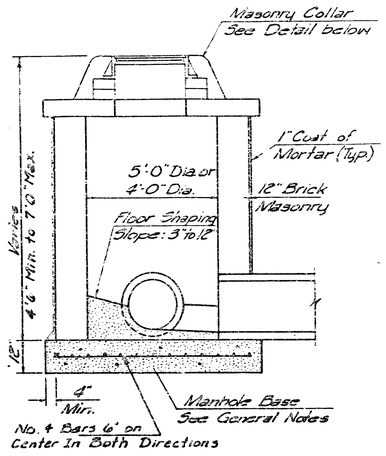
MANHOLE FRAME AND COVER

W. E. LINDEBAK P.E. - CITY ENGINEER

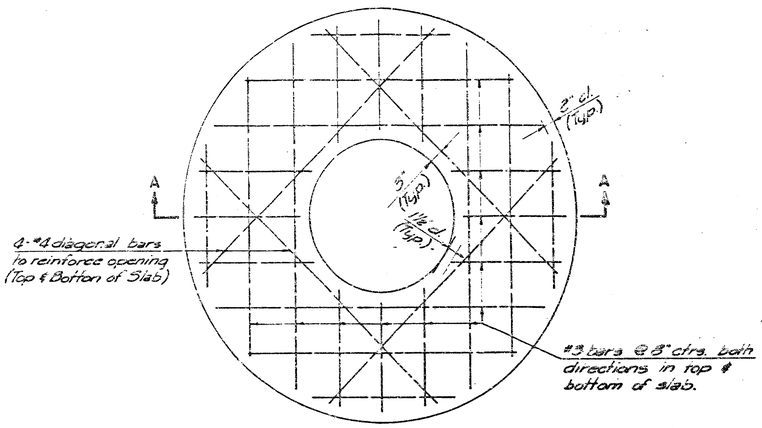
PROJECT NUMBER	INDEX CODE
	607861
DATE	SHEET 3 OF 5
MAR 96	



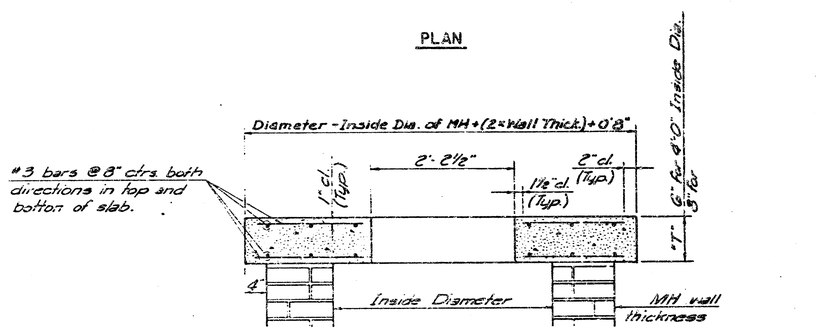
SHALLOW TYPE "A" MANHOLE



SHALLOW TYPE "B" MANHOLE

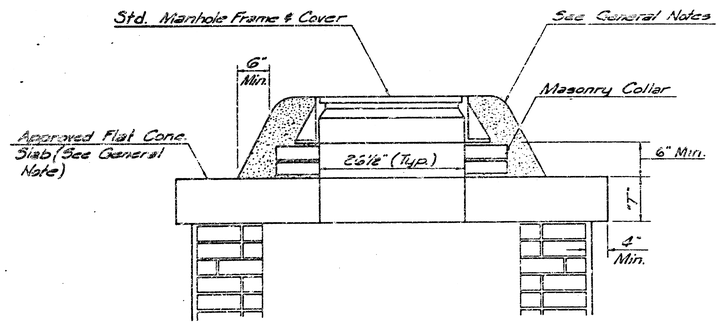


PLAN

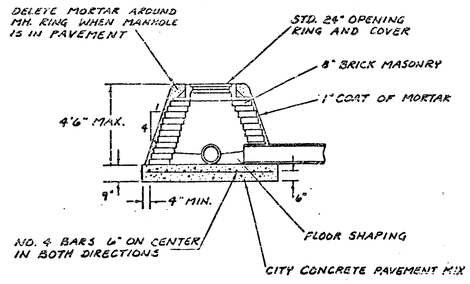


SECTION A-A

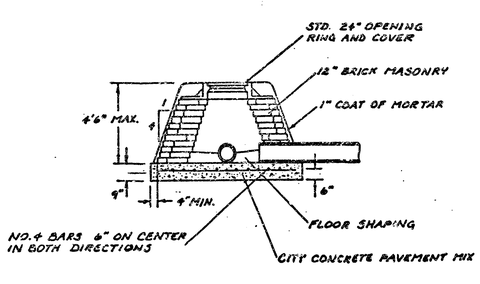
FLAT CONCRETE SLAB DETAILS



MASONRY COLLAR DETAIL



SPECIAL SHALLOW TYPE 'A' MANHOLE



SPECIAL SHALLOW TYPE 'B' MANHOLE

GENERAL NOTES

1. MORTAR USED IN MANHOLE CONSTRUCTION SHALL CONFORM TO CLASS "A" OF CLASS "AAAA" CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CLASS "A" PAVEMENT OF CITY SPECIFICATIONS IN THE CITY STANDARD BOOKS OF SPECIFICATIONS. THE CITY CLASS "AAAA" MIX WITHOUT AIR ENTRAINING ADDITIVES. MORTAR SHALL BE USED IN THE MANHOLE RING AS SHOWN ON THE PLANS IN MASONRY WALLS AND IN DAMAGED AREAS. TYPE "A" SHALLOW MANHOLES CONSTRUCTED WHERE THE MANHOLE IS NOT LOCATED WITHIN PAVED STREET PAVEMENT AND CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24" SHALL HAVE AN INSIDE DIAMETER OF 4'. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR OVER SHALL HAVE AN INSIDE DIAMETER OF 5'. COMPLETED MANHOLE SHALL BE WATERTIGHT WITHOUT LEAKS AND WATER TIGHT.

2. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASE AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. 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. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SO THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF DEBRIS WHICH MIGHT BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ONE PIPE TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO A POINT AT THE INVERTS OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN ON THE DRAWINGS. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT TOWARD AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNEL. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO THE LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOOR SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.

4. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHERE 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 WITH A MATERIAL WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. CRADLE OF CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.

5. 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 DRAWINGS.

6. THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.

7. STANDARD SHALLOW MANHOLES TYPE "A" AND "B" SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH FOR THE TYPE AND DIAMETER INDICATED. STANDARD SPECIAL SHALLOW MANHOLES TYPE "A" AND "B" SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH FOR THE TYPE INDICATED. ALL STANDARD SHALLOW MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.

CITY OF WICHITA, KANSAS
STANDARD SHALLOW MANHOLE TYPE 'A' AND TYPE 'B'

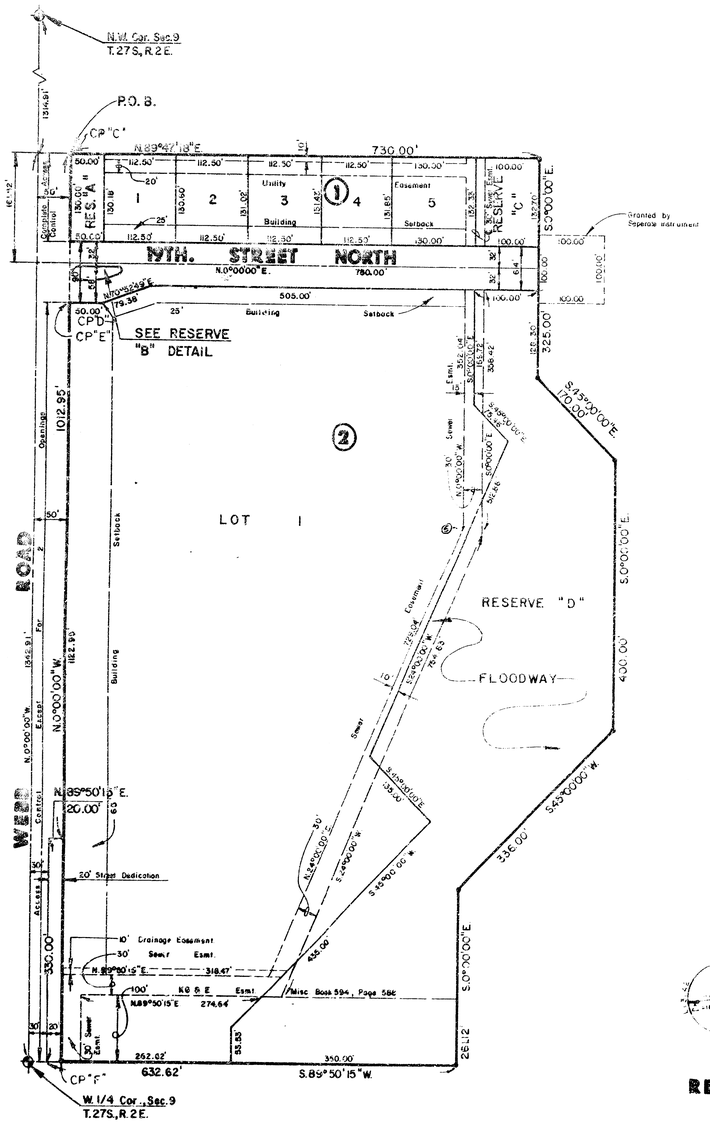
Designed by		Checked by	
Drawn by		Date	Job No.

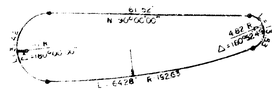
Sheet 4

FINAL PLAT OF

EASTMINSTER

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS





RESERVE "B" DETAIL

I, Kenneth H. Bengtson, a Civil Engineer in Kansas, do hereby certify that I have been in responsible charge of surveying and platting of "EASTMINSTER", an addition to Wichita, Sedgwick County, Kansas into Lots, Blocks, Streets and Reserves, the same being accurately set forth in the accompanying plat and described as follows:

A tract of land lying within the northwest quarter of Section 9, Township 27 South, Range 2 east of the 6th P.M., more particularly described as follows:

Commencing at the northwest corner of said northwest quarter; thence on an assumed bearing S 00° 00' 00" E, 1314.91 feet along the west line of said northwest quarter to a point 1342.91 feet north of the southwest corner of said northwest Quarter; thence N 89° 47' 18" E, 50.00 feet parallel and 14.00 feet north of the north line of the southwest quarter of said northwest quarter to the point of beginning; thence N 89° 47' 18" E, 730.00 feet parallel and 14.00 feet north of the north line of the southwest quarter of said northwest quarter; thence S 00° 00' 00" E, 325.00 feet; thence S 45° 00' 00" E, 170.00 feet; thence S 00° 00' 00" E, 400.00 feet; thence S 45° 00' 00" W, 336.00 feet; thence S 00° 00' 00" E, 261.12 feet to a point on the south line of said northwest quarter; thence along the south line of said northwest quarter S 89° 50' 15" W, 632.62 feet to a point 30.00 east of the west line of said northwest quarter; thence N 0° 00' 00" E, 330.00 feet parallel and 30.00 feet east of the west line of said northwest quarter; thence N 89° 50' 15" E, 20.00 feet to a point 50.00 feet east of the west line of said northwest quarter; thence N 0° 00' 00" E, 1012.95 feet parallel and 50.00 feet east of the west line of said northwest quarter to the point of beginning.

I hereby certify that the details of this plat are correct to the best of my knowledge and belief this 5 day of March, 1986.

Kenneth H. Bengtson, P.E.
Mid-Kansas Engineering Consultants, P.A.
3500 N. Rock Road, Bldg. 800
Wichita, KS 67226

Know all men by these presents that we the undersigned property owners of the land as above set forth in the Civil Engineers Certificate, have caused the same to be surveyed and platted into Lots, Blocks, Streets, and Reserves, the same to be known as "EASTMINSTER", an addition to Wichita, Sedgwick County, Kansas. The streets are hereby dedicated to and for the use of the public. Easements for the construction and maintenance of public utilities and drainage, as indicated on the accompanying plat are hereby granted. Reserves "A", "B", "C", & "D" are platted for construction and maintenance of public utilities and landscaping. Reserves "A" and "B" are also platted for entry monuments. Reserve "C" is also platted for drainage. Reserves "D" is platted for floodway purposes. All reserves shall be owned and maintained by the Homeowners Association. The floodways shall be the responsibility of the owners until such time as the governing body exercising jurisdiction elects to assume the responsibility for the maintenance and improvement of the drainage, provided further, that no structure shall be constructed on or within said floodway, nor shall any fill, change of grade, creation of channel or other work be carried on without the permission of the City Engineer. All abutters' rights of access to or from Webb Road over and across the west line of Lot 1, Block 2 and the west line of Reserve "A" of "EASTMINSTER" are hereby granted to the City of Wichita, Kansas except Lot 1, Block 2 shall have access at two locations to Webb Road as determined by the City Engineer.

Eastminster United Presbyterian Church

By: _____
William A. Boettger, President
Board of Trustees

STATE OF KANSAS)
) ss:
SEDGWICK COUNTY)

Be it remembered that on this 24th day of February, 1986, before me a Notary Public in and for said County and State, came William A. Boettger, President, Board of Trustees, on behalf of Eastminster United Presbyterian Church, to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same. In testimony whereof I have hereunto set my hand and affixed my notarial seal the day and year above written.

_____, Notary Public
Mary Ellen Conviser
My Appointment Expires: 5-31-87

This plat of "EASTMINSTER" has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this 20th day of February, 1986.

WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION

William J. Goebel, Chairman

Michael C. Lindebak, Secretary

This plat approved and all dedications shown hereon, if any, accepted by the City Commission of the City of Wichita, Kansas, this 4th day of March, 1986.

Robert C. Brown, Mayor

Donald C. Gystick, City Clerk

Entered on transfer record this 25 day of March, 1986.

Don Wright, County Clerk
Jim Howell

STATE OF KANSAS)
) SS:
SEDGWICK COUNTY)

This is to certify that this instrument was filed for record in the Register of Deeds office this 25th day of March, 1986.

Pat Kettler, Register of Deeds

Ed Resa, Deputy

796324