Sanitary Sewer Extensions to Serve

WEST WAREHOUSE ADDITION

Private Project Number

498 PPS (607861)

CITY OF WICHITA, KANSAS

Michael E. Lindebak, City Engineer

General Notes

1. Contractor will be required to provide notice to utility companies a minimum of twenty-four (24) hours prior to any excavation, as follows:

   Kansas One-Call 687-2470

   The Contractor must notify the following in case of an emergency:

Cablevision	262-4270
or	263-2061
K.P.L. Gas Service Company	383-8650
Kansas Gas & Electric Company	383-8600
Arkla Gas Company	942-8350
Southwestern Bell Telephone Company	1-571-2611
City of Wichita Water Department	268-4908
City of Wichita Sewer Maintenance	268-4071

2. Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiles or disposed of in a flood plain would a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps. of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.

3. Limits of earthwork shall match existing ground elevations at the right-of-way line unless otherwise noted on the plans with a new finished grade elevation. When a new finished grade elevation is shown, the earthwork will extend one foot beyond the right-of-way line and then sloped up or down using permissable slopes to match the existing ground surface.

4. 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 in accordance with state law.

5. All areas disturbed by construction operations shall be temporarily seeded with rye grass (8 lbs./1000 sq. ft.) immediately following construction in that area.

6. The bid item site restoration shall include all finished grading, final site grading, all erosion construction items and any other items as necessary for final completion and acceptance of project.

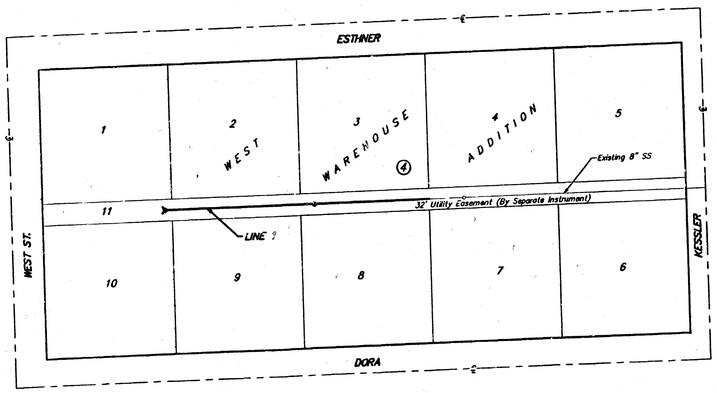
BENCHMARK:

"□" Cut in Top of Curb Located 19' South and 5.5' West of Southwest Corner of Lot 8, Block 4, West Warehouse Addition.

Elevation = 110.91 City Datum

"□" Cut in Top of Curb Located 60' West of ℄ of Kessler and 23' South of ℄ of Dora.

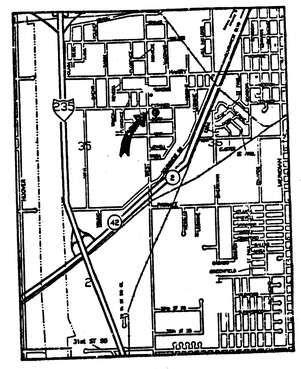
Elevation = 111.99 City Datum



Project Area

INDEX:

1	Title Sheet
2	Plan/Profile Sheet
3	Standard Manhole Detail
4	Plat of West Warehouse Addition



Vicinity Map

SCALE: 1" = 100'

As Built 1-3-95 AZ.

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Sanitary Sewers VRH 9/22/94

Storm Sewers _____

Driveway Approaches _____

Water Mains _____

Paving _____

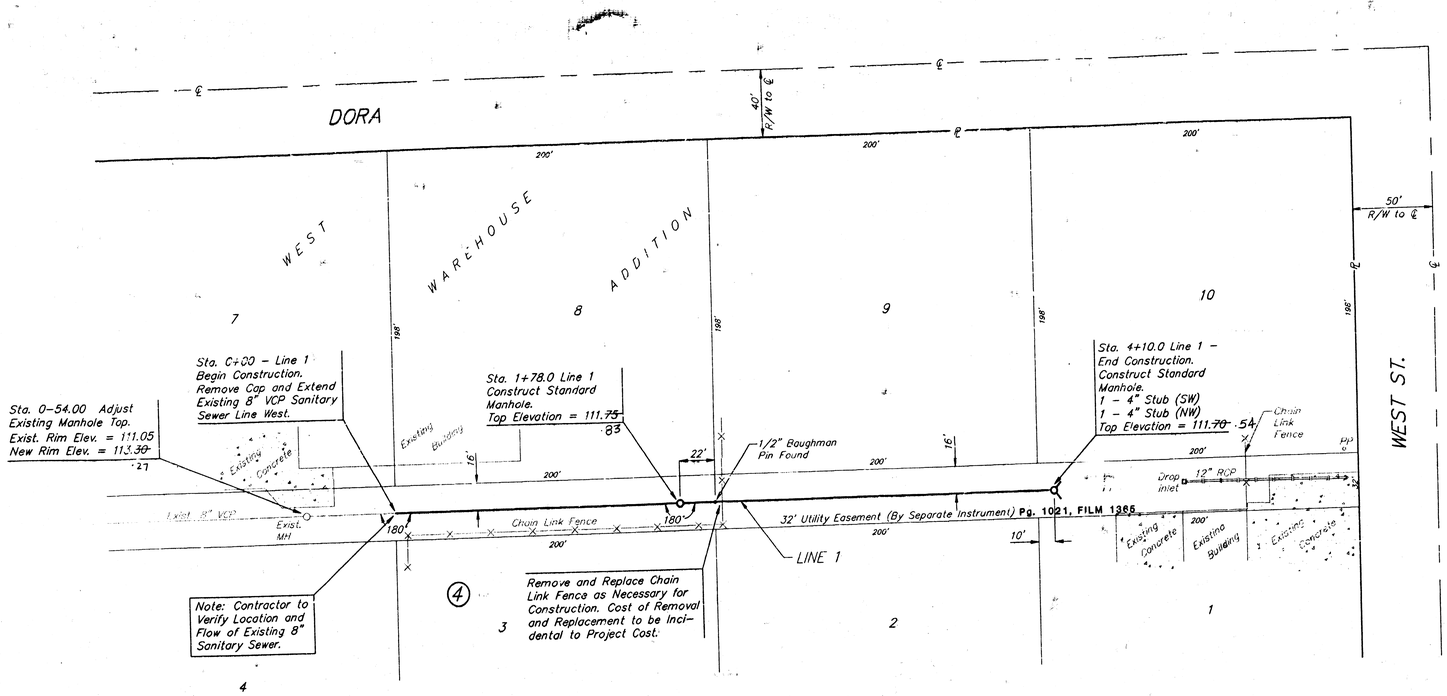
NOTE TO CONTRACTORS

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 public right-of-way by the Contractor without such inspection nor shall any work be commenced without written authorization by the City Engineer. All Construction and Materials shall comply with the City of Wichita Specifications and Standards (on file and available in the City Engineer's Office).

Booked 1/11/95 SKB From Ms Baitx

ALBERT WOOTEN LICENSED 8470 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY P. A.
ENGINEERING & SURVEYING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211



Scale:
1" = 40' Horizontal
1" = 5' Vertical
• = Iron

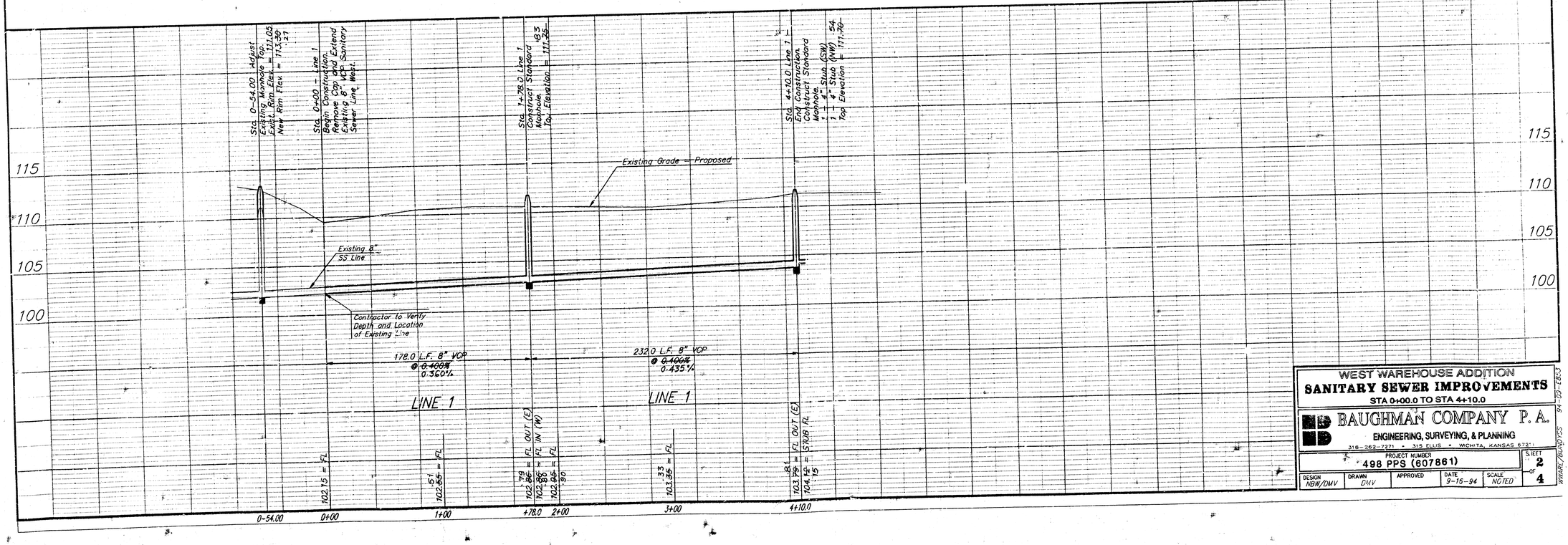
BENCHMARKS:

"□" Cut in Top of Curb Located 19' South and 5.5' West of Southwest Corner of Lot 8, Block 4, West Warehouse Addition.

Elevation = 110.91 City Datum

"□" Cut in Top of Curb Located 60' West of ℄ of Kessler and 23' South of ℄ of Dora.

Elevation = 111.99 City Datum



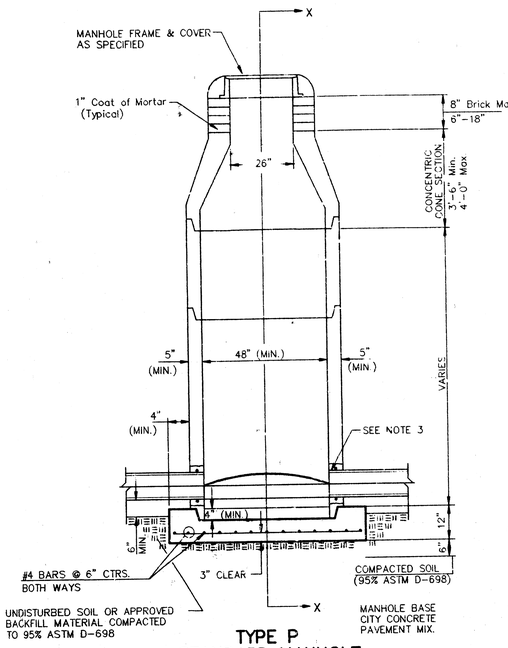
WEST WAREHOUSE ADDITION
SANITARY SEWER IMPROVEMENTS
STA 0+00.0 TO STA 4+10.0

BAUGHMAN COMPANY P. A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

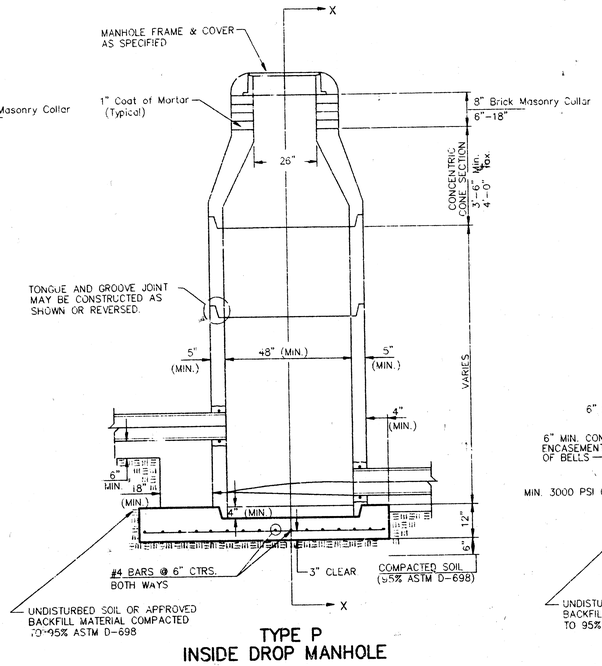
PROJECT NUMBER				SHEET
498 PPS (607861)				2 OF 4
DESIGN	DRAWN	APPROVED	DATE	SCALE
NBW/DMV	DMV		9-15-94	NOTED

94-05-1803
WWARL/BLNOTES

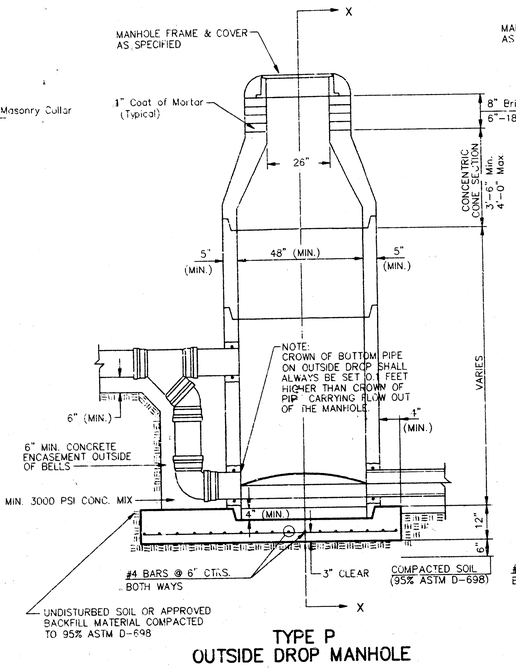
SEWER APPURTENANCES DETAILS



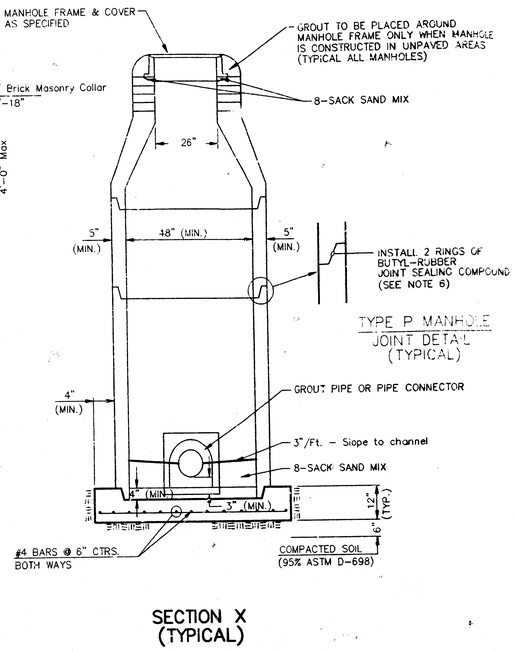
TYPE P
STANDARD MANHOLE



TYPE P
INSIDE DROP MANHOLE



TYPE P
OUTSIDE DROP MANHOLE

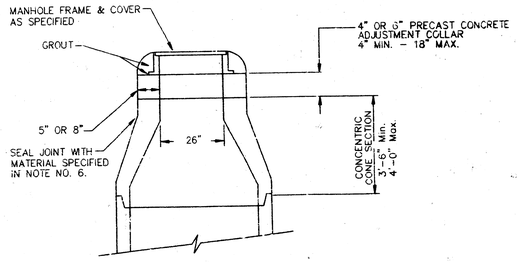


SECTION X
(TYPICAL)

GENERAL NOTES

PRECAST MANHOLE NOTES

1. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE 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 TNEMEC SERIES 66 HI-BUILD EPOXOLINE, DRY THICKNESS OF 8 MILS (MIN.)
5. EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 633 BITUMINOUS 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 2' 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. THE USE OF PRE-CAST CONCRETE SPACERS FOR MANHOLE TOP ADJUSTMENT IS ALSO ALLOWED.



ALTERNATE CONSTRUCTION
IN UNPAVED AREAS

CITY OF WICHITA, KANSAS
STANDARD MANHOLE DETAILS
SEWER APPURTENANCES DETAILS

BAUGHMAN COMPANY P. A.
ENGINEERING & SURVEYING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

REV. NOV. 1993

PROJECT NUMBER 498 PPS (607861)

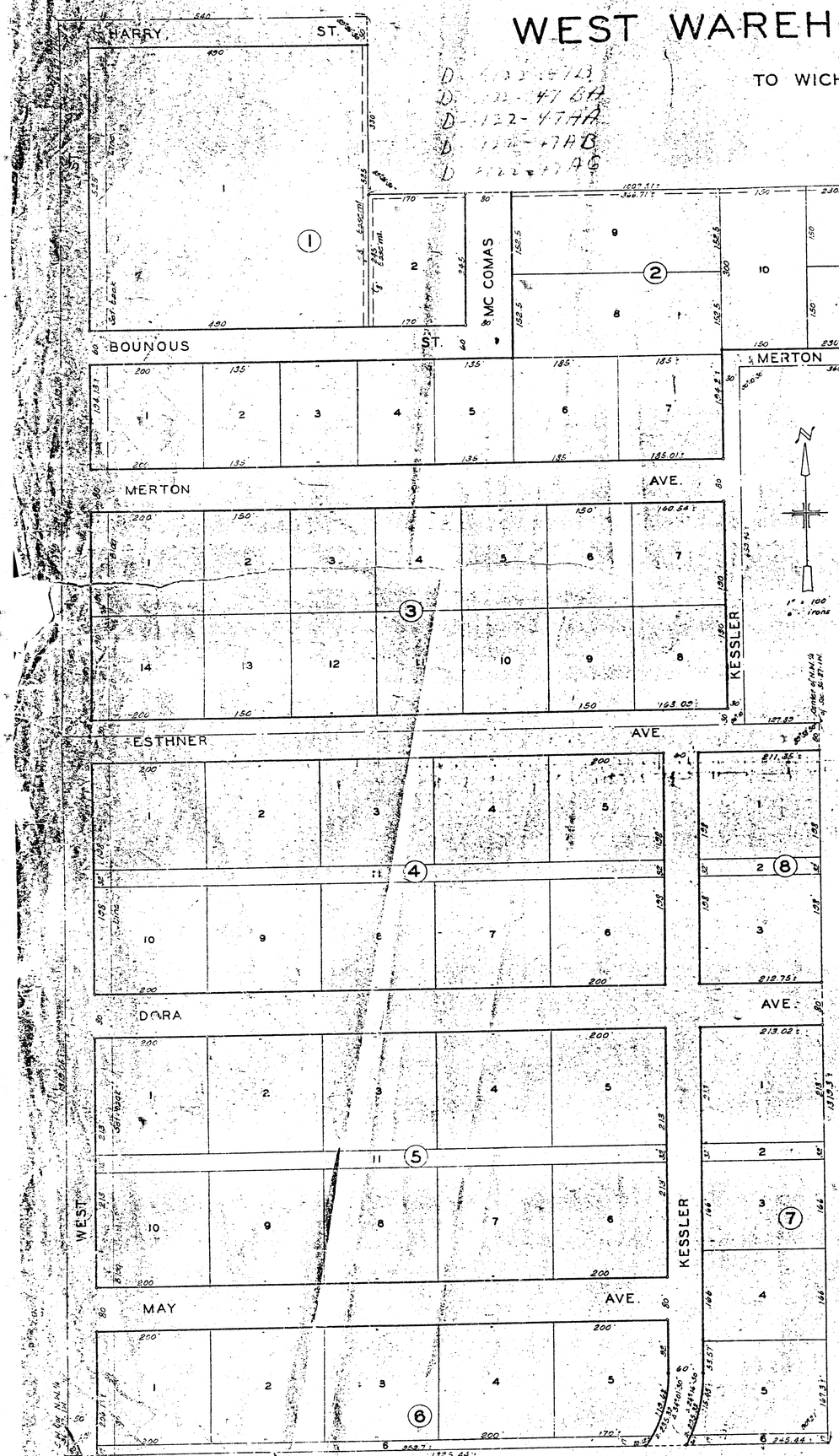
SHEET 3 OF 4

DESIGN	DRAWN	APPROVED	DATE	SCALE

18-3-4-6

WEST WAREHOUSE ADDITION

TO WICHITA, KANSAS.



State of Kansas } ss. I, Clyde M. Baughman,
Sedgwick County } Surveyor in aforesaid county and state, do hereby certify that I have surveyed and platted "WEST WAREHOUSE ADDITION" to Wichita, Kansas, and that the accompanying plat is a true and correct exhibit of the property surveyed described as follows: All of the S.W. 1/4 of the N.W. 1/4 of Sec. 36, T-27-S, R-1-W, and that part of the N 1/2 of said 1/4 Sec. beginning 1089 feet west and 330 feet south of the N.E. Cor. of said N. 1/2; thence south parallel with the east line of said 1/4 section, 330 feet; thence west parallel with the north line of said 1/4 Sec., 360.5 feet; thence south parallel with the east line of said 1/4 Sec., 659.46 feet more or less to the south line of said N. 1/2.; thence west to the S.W. Cor. of said N. 1/2; thence north to the N.W. Cor. of said 1/4 Sec.; thence east 540 feet; thence south 330 feet; thence east 1007.21 feet, more or less to the place of beginning.

Clyde M. Baughman Surveyor

Know all men by these presents that West Warehouse Inc., a corporation by J. R. Clark, President and Frank M. Kessler, Secretary; Raymond D. Bounous and Charlene M. Bounous, his wife; Roy C. Russell and Katherine Russell, his wife; R.J. King and Rosclind J. King his wife, have caused the land described in the surveyors certificate to be platted into lots, blocks, streets and avenues to be known as "WEST WAREHOUSE ADDITION" to Wichita, Kansas. Easements are hereby granted as indicated for the construction and maintenance of all public utilities. The streets and avenues are hereby dedicated to and for the use of the public.

West Warehouse Inc., a corporation

J R Clark President

Frank M Kessler Secretary

Charlene M. Bounous — R J King

Raymond D. Bounous — Rosclind J. King

Roy C. Russell — Katherine Russell

State of Kansas } ss. Be it remembered that on this
Sedgwick County } 9 day of January 1957, before me a notary public in aforesaid county and state came West Warehouse Inc. a corporation by its President J. R. Clark and Secretary Frank M. Kessler, and Raymond D. Bounous and Charlene M. Bounous, his wife; Roy C. Russell and Katherine Russell his wife; R.J. King and Rosclind J. King, his wife, to me known to be the same persons who executed the foregoing instrument of writing and duly acknowledged the execution of the same as their voluntary act and deed and as the act and deed of said corporation. In testimony whereof I have hereunto set my hand and affixed my notarial seal the day and year above written.

Marion Bastian Notary Public

My Commission Expires 10-21-58

This plat of "WEST WAREHOUSE ADDITION" to Wichita, Kansas has been submitted to and considered by the City Planning Commission of Wichita, Kansas, and is hereby transmitted to the Board of City Commissioners with the recommendation that such plat be approved as submitted. Dated this 18 day of December 1956.

The City Planning Commission of Wichita, Kansas

Chairman

Secretary

Approved by the Board of City Commissioners this 26 day of December 1956.

Mayor

C. R. Frank, Assistant City Clerk

Approved by the Board of County Commissioners this 23rd day of January 1957.

Chas. Schweiter County Clerk

Entered on transfer record this 23rd day of January 1957.

Chas. Schweiter County Clerk

State of Kansas } ss. This is to certify that this plat
Sedgwick County } was filed for record in the office of the Register of Deeds this 23rd day of January 1957, at 10:00 o'clock, A. M. and is duly recorded. #23027

Rufus E. Deering Register of Deeds

4 of 4