STORM WATER DRAIN #162
TO SERVE LOTS 1 AND 2
SAVANNAH PLACE ADDITION
PROJECT NO. 468-83232
OCA NO. 751296

GENERAL NOTES

1. Contractor will be required to provide a minimum advance notice of forty-eight (48) hours to utility companies prior to starting any excavation as follows:

   Kansas One-Call 887-2410

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

Cox Communications	262-1661
Kansas Gas Service	383-9600
KGE	383-8600
Peoples Natural Gas Company	1-800-303-0357
Southwestern Bell Telephone Company	1-800-286-8313
City of Wichita Water Department	262-6000
City of Wichita Sewer Maintenance	262-6000

3. One lane of traffic on University to remain open at all times.

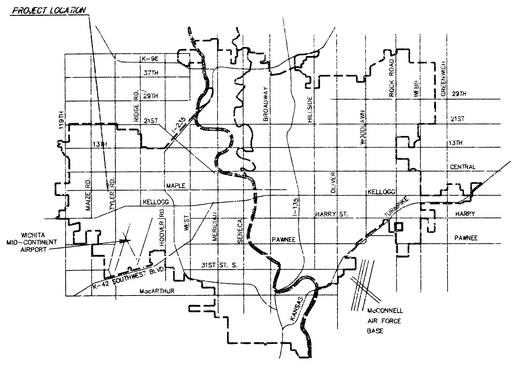
4. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. Location information has been obtained from the various utility companies and is either from company record drawings or company-provided field locations. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.

5. The Contractor shall give all property owners and/or tenants of developed property directly abutting the construction of this project a minimum of ten (10) days advance notice prior to start of construction.

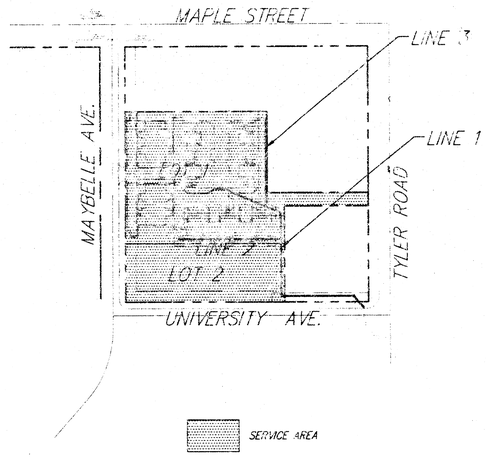
6. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.

7. The Contractor shall obtain the necessary permits from the Office of Central Inspection prior to any roof drain hook-up to the storm water sewer system.

8. All work on this project to be in accordance with City of Wichita Standard Specifications dated March 1998.



VICINITY MAP



SERVICE AREA

Scale: 1" = 150'

BENCH MARKS

City of Wichita Benchmark:
50.7' north and 35.3' west of the C/L of Tyler and Maple
in curb island. BM 3' S.W. to Sec Cor. iron.
Elev. 1441.12 (City Datum)

On-Site Bench Mark:
Square Cut, Top of curb east end of curb return
at N.E. Cor. of Maybelle and University.
Elev. 1413.78 (City Datum)

INDEX OF SHEETS

1.	TITLE SHEET
2.-3.	PLAN & PROFILE
4.	MANHOLE DETAIL
5.	SPECIAL DROP INLET DETAIL
6.	STD. DROP INLET DETAIL
7.	PLAT COPY

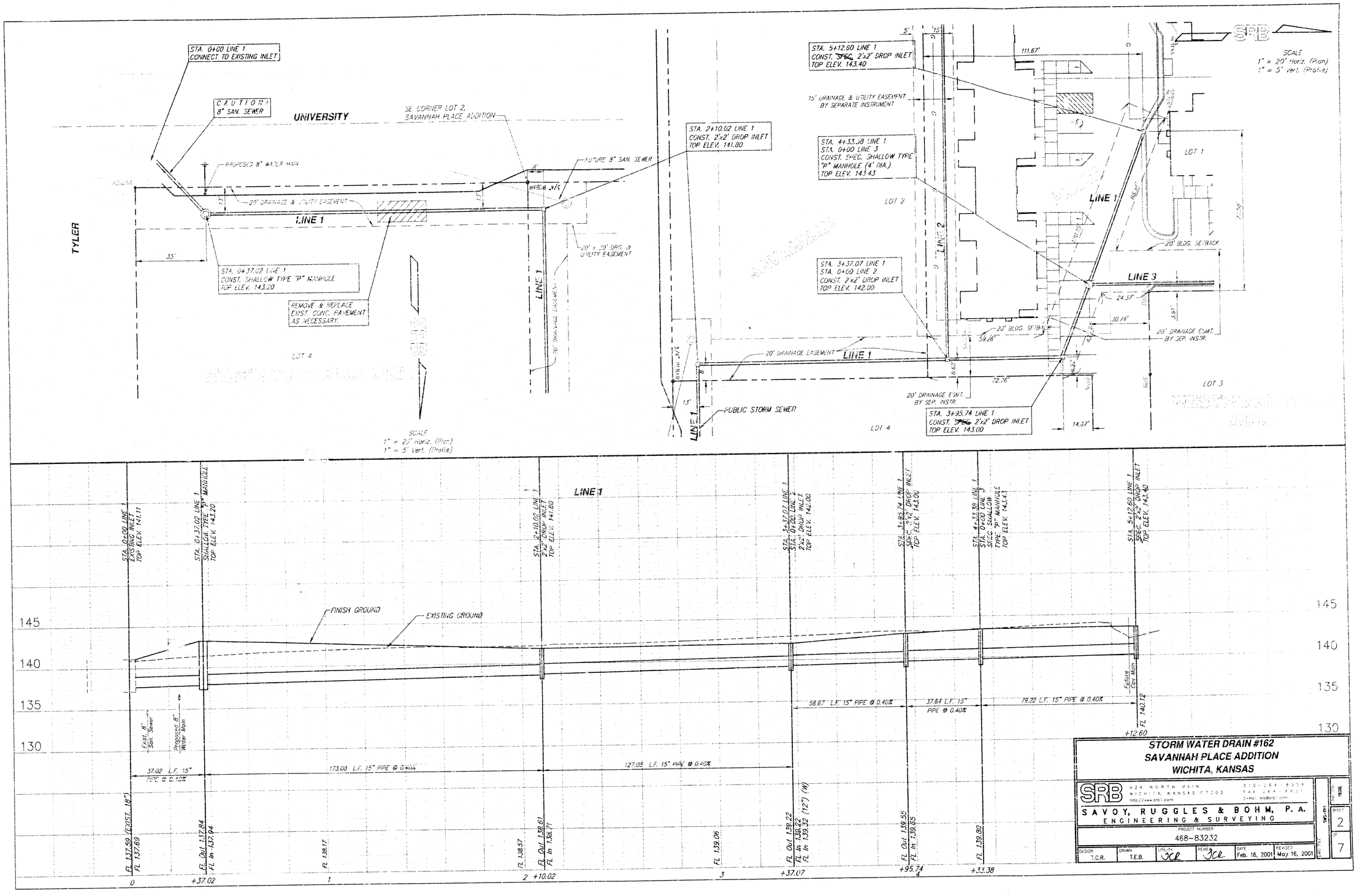
Bonded 4-9-03 C-1446

"AS BUILT" 8/24/01

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, P.E. - CITY ENGINEER

SRB 924 NORTH MAIN WICHITA, KANSAS 67203 316-263-8203 FAX 264-4621
SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

7838E



STORM WATER DRAIN #162
SAVANNAH PLACE ADDITION
WICHITA, KANSAS

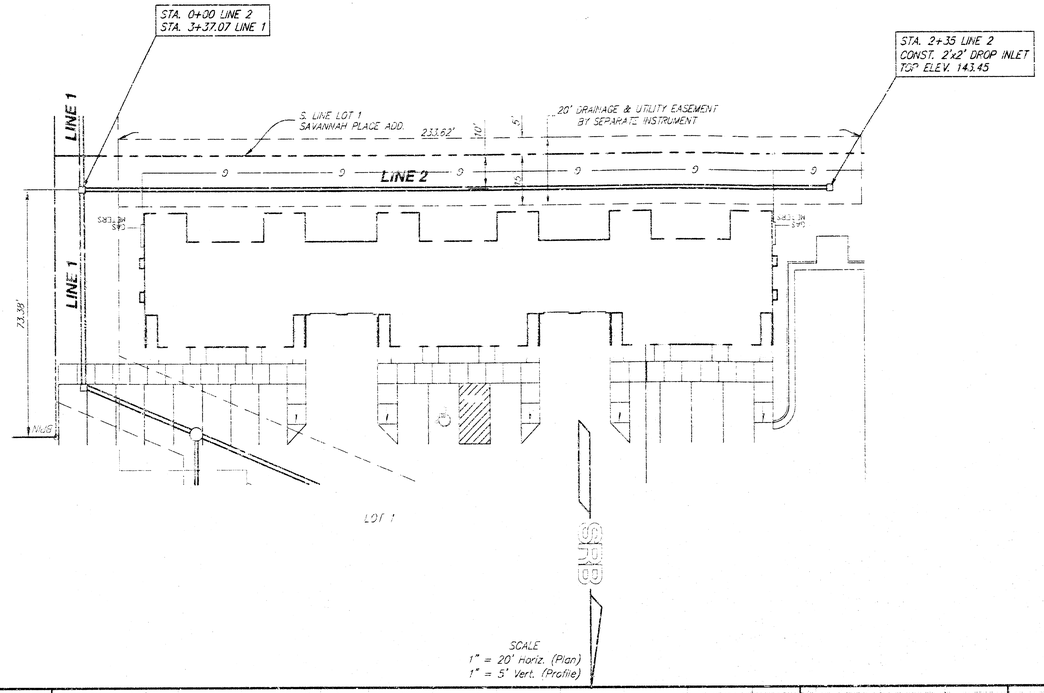
SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
http://www.srb1.com
316-264-4056
FAX 264-4461
E-Mail: srb@srb1.com

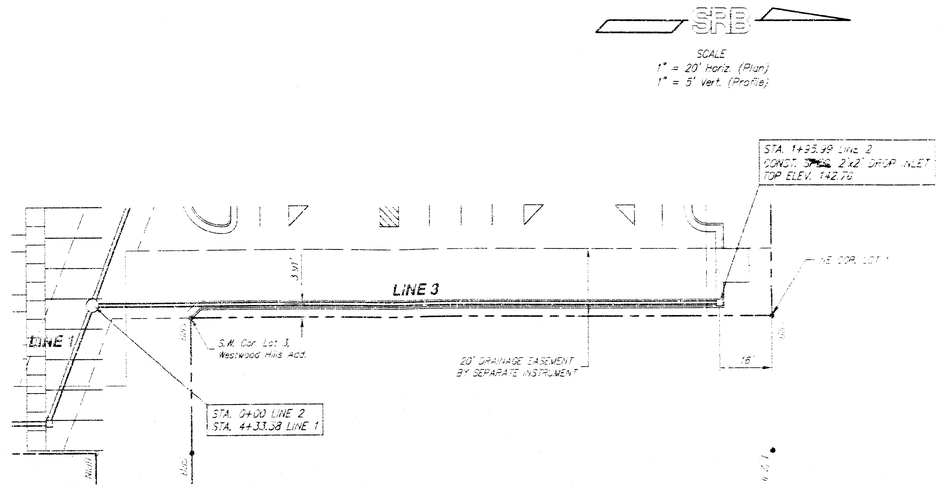
SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

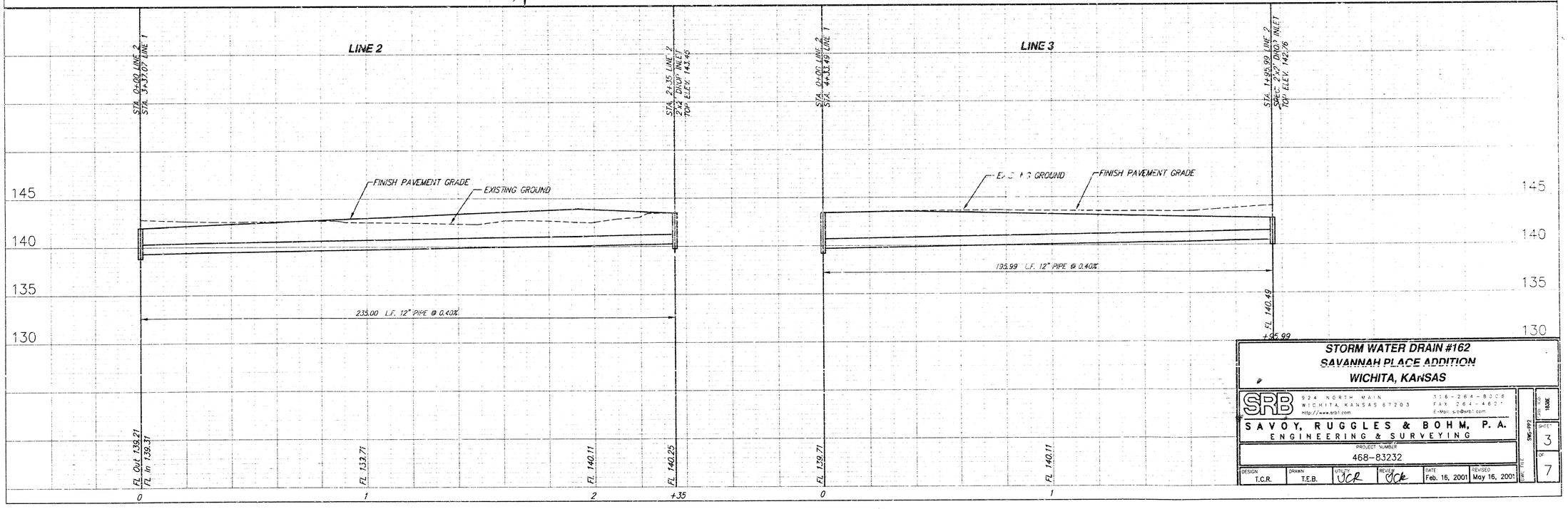
PROJECT NUMBER
468-83232

DESIGN	DRAWN	UTILITY	REVIEW	DATE	REVISED
T.C.R.	T.E.B.	JCL	JCL	Feb. 16, 2001	May 16, 2001

SHEET 2 OF 7







SCALE
1" = 20' Horiz. (Plan)
1" = 5' Vert. (Profile)

STORM WATER DRAIN #162
SAVANNAH PLACE ADDITION
WICHITA, KANSAS

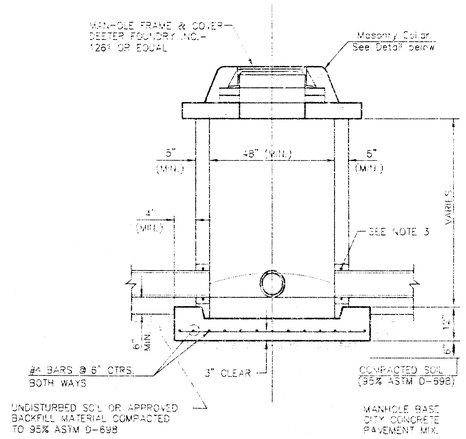
924 NORTH MAIN
WICHITA, KANSAS 67203
http://www.srbt.com
316-264-8308
FAX 264-4621
E-Mail: srb@srbt.com

SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

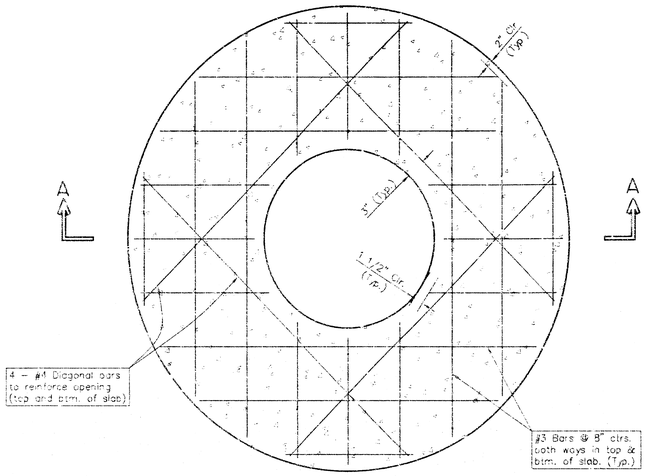
PROJECT NUMBER
468-83232

DESIGN	DRAWN	UTILITY	REVIEW	DATE	REVISED
T.C.R.	T.E.B.	TCR	TCR	Feb. 16, 2001	May 16, 2001

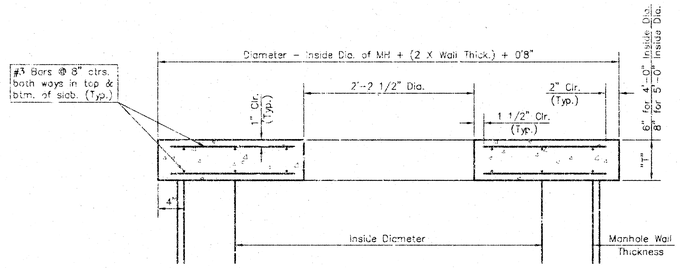
SHEET INDEX NO. 1838E
SHEET 3
OF 7
SWG-992



SHALLOW TYPE "P" MANHOLE

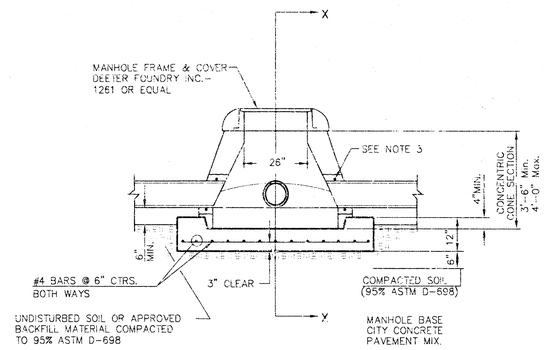


PLAN

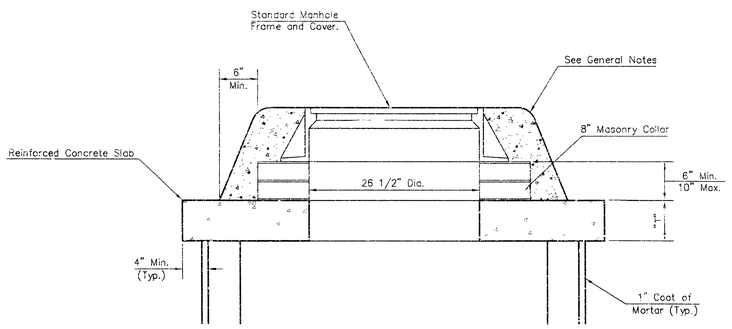


SECTION A-A

CONCRETE SLAB DETAILS



SPECIAL SHALLOW TYPE "P" MANHOLE



MASONRY COLLAR DETAIL

GENERAL 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 OF MEC SERIES 66 HI-BUILD EPOXOLINE, DRY THICKNESS OF 8 MILS (MIN.)
5. EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 533 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 5 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. 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.
13. 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 MAHOLE. 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.
14. 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.
15. ALL BRICK USED IN MANHOLE CONSTRUCTION SHALL MEET GRADE SW OF ASTM C652 OR C62-87.

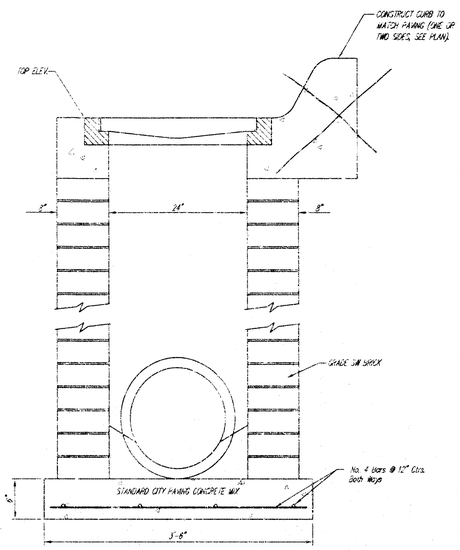
SHALLOW TYPE 'P' MANHOLE DETAILS
WICHITA, KANSAS

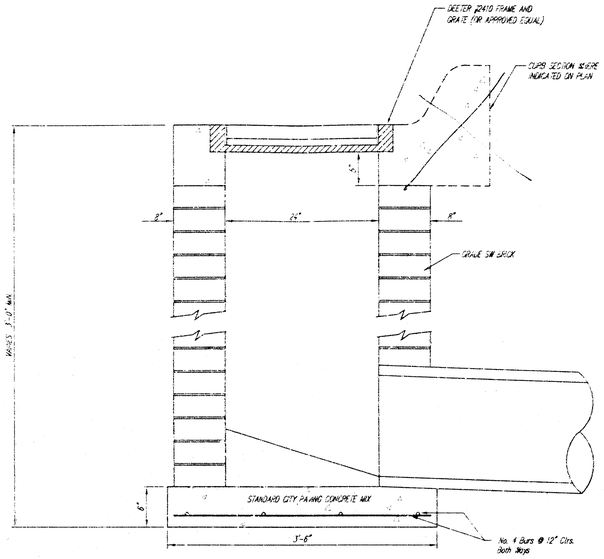
SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
316-264-8008
FAX 264-4721
E-mail: srb@srbt.com
www.srbt.com
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

PROJECT NUMBER
468-83232

DESIGN	DRAWN	UTILITY	REVIEW	DATE	REVISED
				6-31-01	

(SRB)Shallow Type P Manhole
STD. DWG. NO. 1030E
SHEET 4 OF 7





Curb Section
Will be poured by
paving Contractor

NOTE: PRECAST ALTERNATE CONSTRUCTION AT CONTRACTOR'S OPTION MAY BE ALLOWED WITH ENGINEER'S APPROVAL.

SAVANNAH PLACE ADDITION

~~SPECIAL~~ DROP INLET DETAIL

WICHITA, KANSAS

SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
www.srb1.com
316-264-8008
FAX 264-4621
E-mail: srb@srb1.com

SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

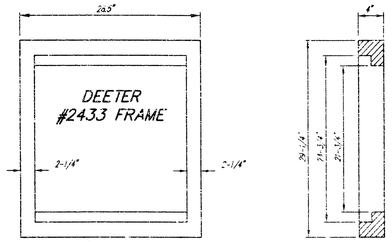
PROJECT NUMBER
46B-83232

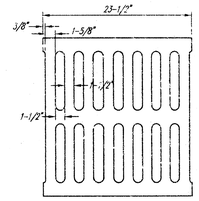
DESIGN	DRAWN	UTILITY	REVIEW	DATE	REVISED
TCR	TEB			Jan. 25, 2001	

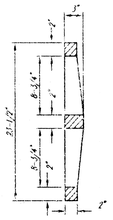
DWG TITLE: Drop Inlet Detail

JOB NO. 1536

SHEET 5 OF 7



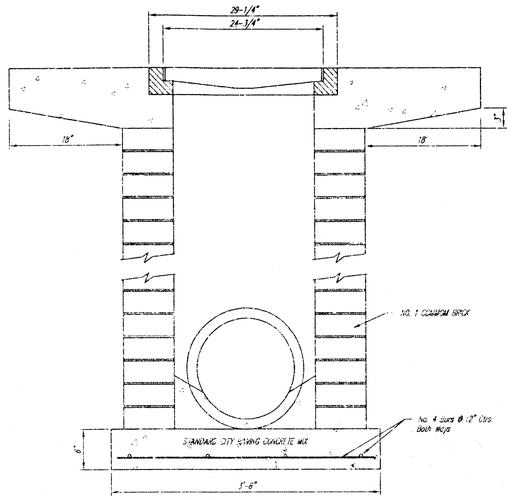


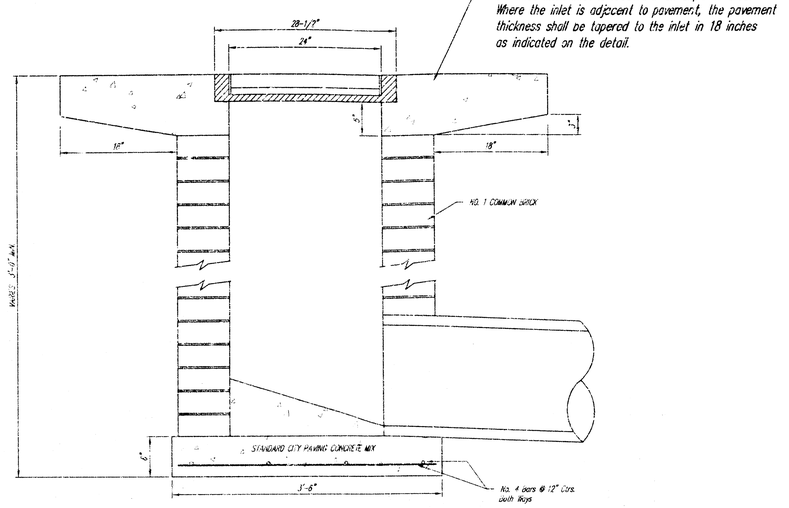


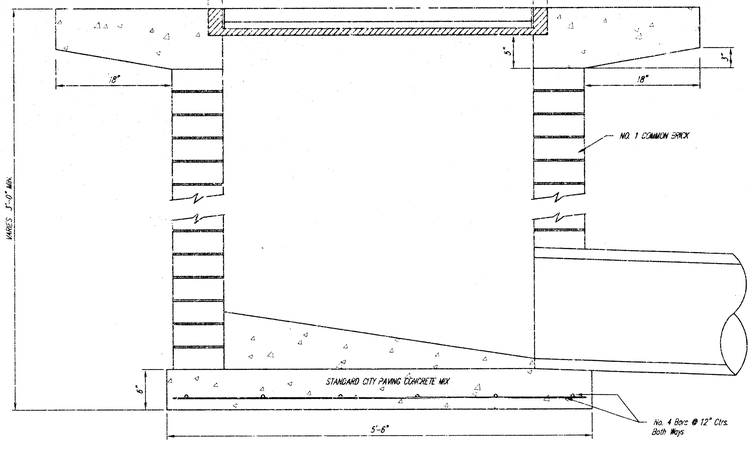
DEETER #2433 GRATE

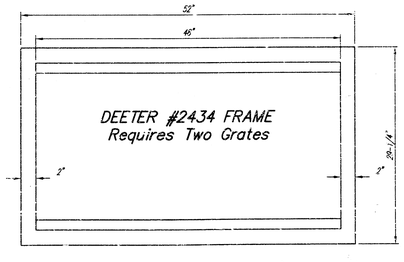
NOTE: Grates shall be imprinted on the top surface with "CITY OF WICHITA" using letters at least 1" in height. Other marking methods may be approved by the engineer.

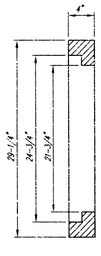
24" x 24" Frame and Grate Detail











Double 24" x 24" Frame Detail

THE CITY OF WICHITA

CITY ENGINEER'S OFFICE
CITY HALL — SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4501
(316) 268-4114 FAX

DROP INLET
2'x2' / 2'x4'

M. E. LINDEBAK P.E. – CITY ENGINEER

PROJECT NUMBER: 468-83233 751296

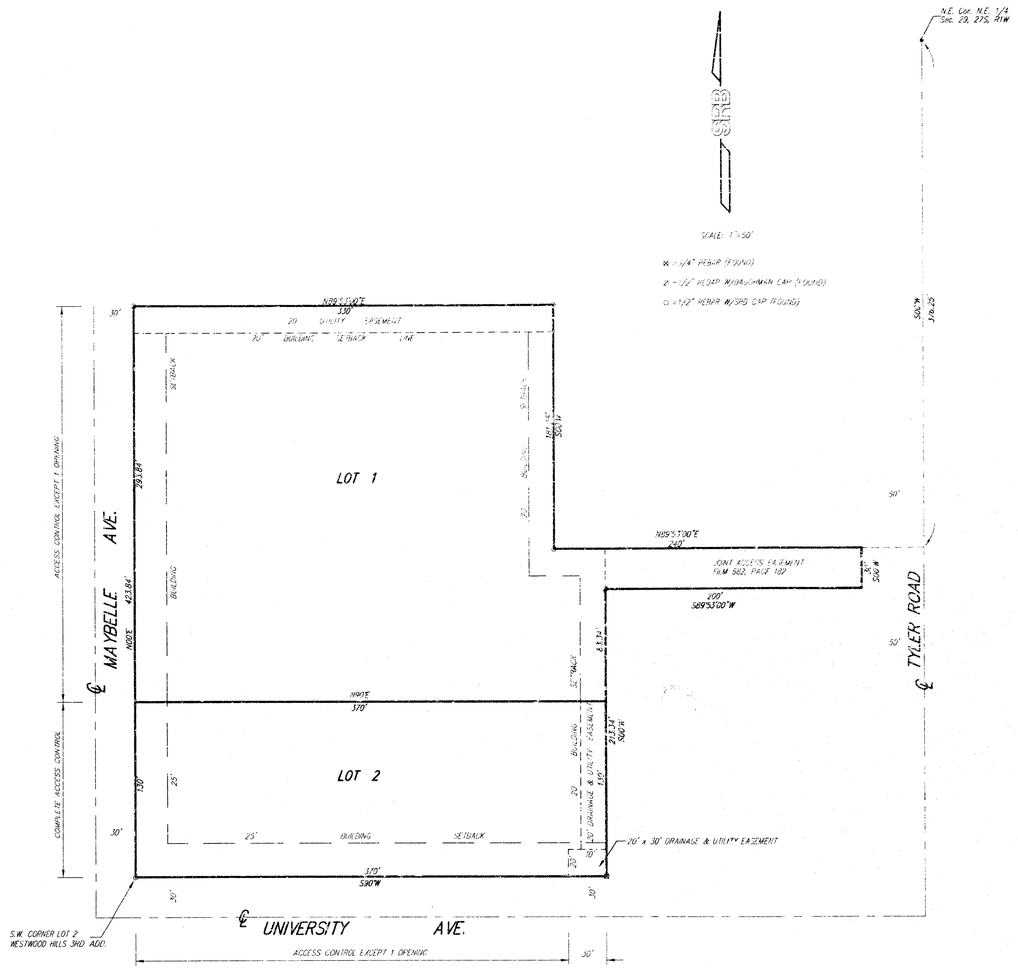
DATE: MAR 96

SHEET 6 OF 7

AT-10-80-81

SAVANNAH PLACE ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS



NOTE: THIS PLAT IS SUBJECT TO THE REQUIREMENTS SET FORTH ON THE REVISED WESTWOOD HILLS COMMUNITY UNIT PLAN D.P.-97

State of Kansas) SS
Sedgwick County)

We, Savoy, Ruggles & Bohm, P.A., Surveyors in aforesaid county and state do hereby certify that, under the supervision of the undersigned, we have surveyed and platted "SAVANNAH PLACE ADDITION", Wichita, Sedgwick County, Kansas and that the accompanying plat is a true and correct exhibit of the property surveyed, described as and being a replat of the following:

Lots 1 and 2, Westwood Hills 3rd Addition, Wichita, Sedgwick County, Kansas.

All being situated in the NE1/4 of Sec. 29, Twp. 27-S, R-1-W of the 6th P.M., Sedgwick County, Kansas.

Existing Public easements and dedications being vacated by virtue of K.S.A. 12-512(b).

Savoy, Ruggles & Bohm, P.A.

Date _____

_____ Surveyor
Mark A. Savoy PLS #788

Know all men by these presents that we, the undersigned have caused the land described in the surveyor's certificate to be platted into 2 Lots to be known as "SAVANNAH PLACE ADDITION", Wichita, Sedgwick County, Kansas. The drainage and utility easements are hereby granted as indicated for the construction and maintance of all public utilities and for drainage purposes. The utility easement is hereby granted for the construction and maintenance of all public utilities. Access Controls are hereby granted to the appropriate governing body (as indicated on the face of the plat.) A drainage plan has been developed for this plat and all drainage easements, and rights-of- way shall remain at established grades or as modified with the approval of the City Engineer, and unobstructed to allow for the conveyance of stormwater.

Savannah Place Apartments, L.L.C.
a Kansas limited liability company

by Bryan Lagaly Development L.L.C.
a Kansas limited liability company
As Manager

_____, Member
Bryan Lagaly

_____, Member
Robert Armstrong

_____, Member
Gerry Cook

_____, Member
Thomas St. Peter

State of Kansas) SS
Sedgwick County)

The foregoing instrument acknowledged before me, this _____ day of 2000, by Bryan Lagaly, Robert Armstrong, Gerry Cook, and Thomas St. Peter, all being Members of Brian Lagaly Development L.L.C., a Kansas limited liability company, on behalf of the company, serving as manager of Savannah Place Apartments, L.L.C., a Kansas limited liability company.

_____ Notary Public
My App't. Exp. _____

We, the undersigned, holders of a mortgage on the above described property do hereby consent to this plat of "SAVANNAH PLACE ADDITION, Wichita, Sedgwick County, Kansas.

First National Bank of Conway Springs

_____, Branch President
Chris A. Anderson

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

Dated this ____ day of _____, 2000.

Wichita-Sedgwick County Metropolitan Area Planning Commission

_____ Chairman
Christopher S. Carraher

_____ Secretary
Marvin S. Kraut

This plat approved and all dedications shown hereon, accepted by the City Council of the City of Wichita, Kansas, this ____ day of _____, 2001.

_____ Mayor
Bob Knight

_____ City Clerk
Pat Burnett

Reviewed in accordance with K.S.A. 58-2005 on this ____ day of _____, 2001.

_____ Deputy County Surveyor
Sedgwick County Kansas
Tricia L. Robello, LS #1246

Entered on transfer record this ____ day of _____, 2001.

_____ County Clerk
Don Brace

State of Kansas) SS
Sedgwick County)

This is to certiiy that this plat has been filed for record in the office of the Register of Deeds, this ____ day of _____, 2001, at _____ o'clock __M: and is duly recorded.

_____ Register of Deeds
Bill Meek

_____ Deputy
Linda Kizzire

State of Kansas) SS
Sedgwick County)

The foregoing instrument acknowledged before me, this _____ day of _____ 2001, by Chris A. Anderson, Branch President, of First National Bank of Conway Springs, on behalf of the Bank.

My App't. Exp _____ _____ Notary Public

SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
http://www.feist.com/~srb
316-264-8008
FAX 264-4621
E-mail: srb@feist.com
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

DWG FILE: 01756PF-R.C.
PROJECT NO. 00001756P

468-83232