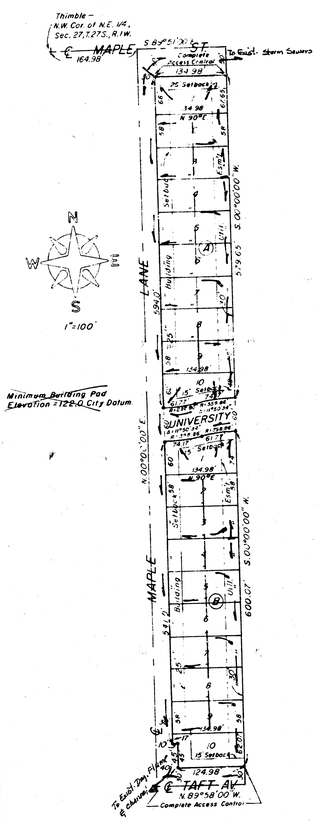
DRAINAGE CONCEPT



MAPLE LANE 3RD. ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS

STATE OF KANSAS, COUNTY OF SEDGWICK, SS:

I, Craig Moehring, a Registered Land Surveyor in said State and County, do hereby certify that I have surveyed and platted "MAPLE LANE 3rd ADDITION" to Wichita, Sedgwick County, Kansas, into Lots and Blocks, the same being accurately set forth on the accompanying plat and described as being a Replat of Lots 1, 2, 3 and 4 in Block 1, and also Lots 1, 2, 3 and 4 in Block 2, Maple Lane 2nd Addition to Wichita, Kansas.

_____ Surveyor
Craig Moehring

Know all men by these presents that we the undersigned, property owners of the land as above set forth in the Surveyor's Certificate, have caused the same to be surveyed and platted into Lots and Blocks, to be known as "MAPLE LANE 3rd ADDITION" to Wichita, Sedgwick County, Kansas. Easements for the construction and maintenance of public utilities, as indicated on the accompanying plat, are hereby granted. All abutter's rights of access to or from Maple Street, over and across the North line of Lot 1, Block A, and also to or from Taft Avenue, over and across the South line of Lot 10, Block B, are hereby granted to the City of Wichita.

UNRUH AND ASSOCIATES, INC.

_____ President
Bradley J. Unruh

_____ Contract Purchaser
Richard P. Thompson

_____ Contract Purchaser
Sharon A. Thompson

STATE OF KANSAS, COUNTY OF SEDGWICK, SS:

Be it remembered that this _____ day of _____, 1987, before me, a Notary Public in and for said State and County, came Unruh and Associates, Inc. by Bradley J. Unruh, President, on behalf of the Corporation, to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same on behalf of 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 anc year above written.

_____, Notary Public

My Commission Expires _____

STATE OF KANSAS, COUNTY OF SEDGWICK, SS:

Be it remembered that this _____ day of _____, 1987, before me, a Notary Public in and for said State and County came Richard P. Thompson and Sharon A. Thompson, Contract Purchaser's, to me personally known to be the same persons 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

My Commission Expires _____

This plat of "MAPLE LANE 3rd ADDITION" has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission.

Dated this _____ day of _____, 1987.

WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION

_____, Chairman
John Terry Moore

_____, Secretary
Marvin S. Krout

This plat has been approved and all dedications shown hereon, if any, accepted by the Board of Commissioners of Sedgwick County, Kansas, this _____ day of _____, 1987.

_____, Chairman
Tom Scott

_____, Chairman Pro-tem
Mark F. Schroeder

_____, Commissioner
David Bayouth

_____, Commissioner
Bernard A. Hentzen

_____, Commissioner
Billy Q. McCray

Attest: _____, County Clerk
Don Wright

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 _____ on the _____ day of _____, 1987.

_____, Register of Deeds
Pat Kettler

_____, Deputy
Ed Resa

Entered on transfer record this _____ day of _____, 1987.

_____, County Clerk
Don Wright

MAPLE LN. 3rd. Add. – 9/1/87
Drainage Evaluation – ZCM

BASIC DATA –
Soil = Canadian, Ca1 (Sedg. Co. "Soil Survey")
Hydrologic Soil Group "B"
Flat Slopes; ≤ 1%

Drainage Area:
Lots 1 thru 10, Blk "A" = 1.82 Ac.
Lots 1 thru 10, Blk "B" = 1.83 Ac.
TOTAL 3.65 Acs

w/ Small drainage area, utilize "RATIONAL METHOD" to compute design runoff.
FROM CITY OF WICHITA DRAINAG CRITERIA – The following:
a/ Use minimum T_c = 15 minutes
b/ I_2 = 3.83"/hr & I_{100} = 7.37"/hr.

c/ for ½ Ac. Single Family Residential areas, w/ 50% impervious areas & Soil Group "B": Runoff Coefficients are
"C"$_2$ = 0.52
"C"$_{100}$ = 0.67

Peak Discharge @ S. end of Maple Lane, for 2 yr and 100 yr. return period, as follows:

$Q_2 = C_2 I_2 A = 0.52 \times 3.83 \times 3.65$
$\Rightarrow Q_2 = 7.3$ cfs

$Q_{100} = C_{100} I_{100} A = 0.67 \times 7.37 \times 3.65$
$\Rightarrow Q_{100} = 18.0$ cfs