

# DRAINAGE CONCEPT AND 4 CORNER GRADING CONCEPT PLAN

**COMBINED AREA  
DRAINAGE DATA**  
SCS Type B Soil  
Area=4.18 acres  
C = 0.52  
Tc = 26 min.  
i 2=2.87"/hr.  
Q 2=6.24 cfs

**DRAINAGE DATA  
AREA #1**  
SCS Type B Soil  
Area=0.95 acres  
C = 0.52  
Tc = 26 min.  
i 2=2.87"/hr.  
Q 2=1.4 cfs

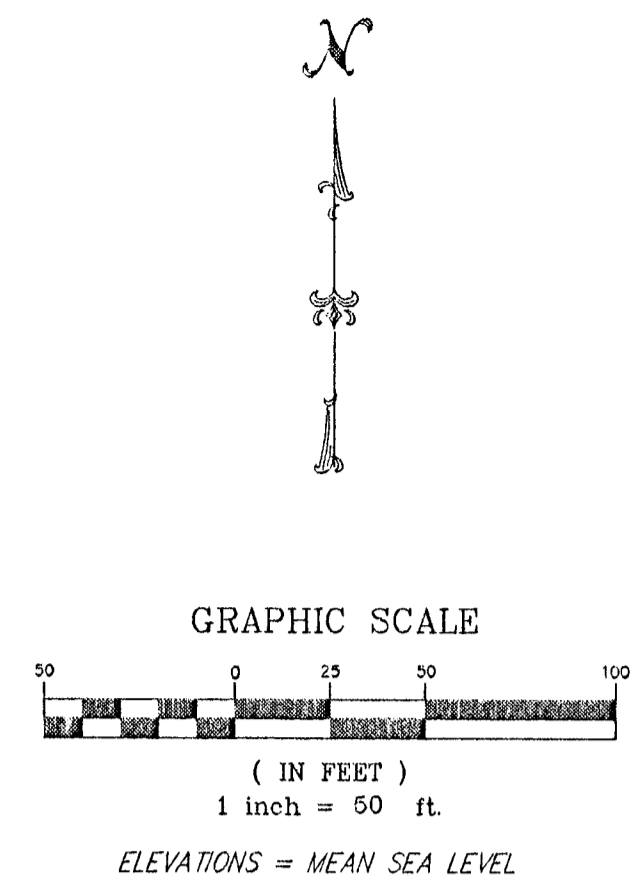
**DRAINAGE DATA  
AREA #2**  
SCS Type B Soil  
Area=1.86 acres  
C = 0.52  
Tc = 20 min.  
i 2=3.30"/hr.  
Q 2=3.2 cfs

**DRAINAGE DATA  
AREA #3**  
SCS Type B Soil  
Area=1.37 acres  
C = 0.52  
Tc = 20 min.  
i 2=3.30"/hr.  
Q 2=2.4 cfs

**DRAINAGE DATA  
AREA #4**  
SCS Type B Soil  
Area=1.63 acres  
C = 0.52  
Tc = 20 min.  
i 2=3.30"/hr.  
Q 2=2.8 cfs

**DRAINAGE DATA  
AREA #5**  
SCS Type B Soil  
Area=0.58 acres  
C = 0.52  
Tc = 39 min.  
i 2=2.25"/hr.  
Q 2=0.68 cfs

**COMBINED AREA  
DRAINAGE DATA**  
SCS Type B Soil  
Area=2.21 acres  
C = 0.52  
Tc = 39 min.  
i 2=2.25"/hr.  
Q 2=2.59 cfs



**LEGAL DESCRIPTION:**  
Lot 10, Block B, Plainview Subdivision No. 2, Wichita, Kansas.

**GROSS SIZE**  
279390.24 Sq. Ft.  
6.41 Acres

**NET SIZE OF PLAT**  
279390.24 Sq. Ft.  
6.41 Acres

**MINIMUM LOT SIZE**  
6900.0 Sq. Ft.

**ZONING**  
MF29

**CONTROL NUMBER**  
174846

**OWNER**  
Robert Snyder  
3620 E. Sunnybrook  
Wichita, KS 67210  
Ph: 684-7734



## DRAINAGE CONCEPT PLAN FOR SHADOW RIDGE ADDITION WICHITA, SEDGWICK COUNTY, KANSAS

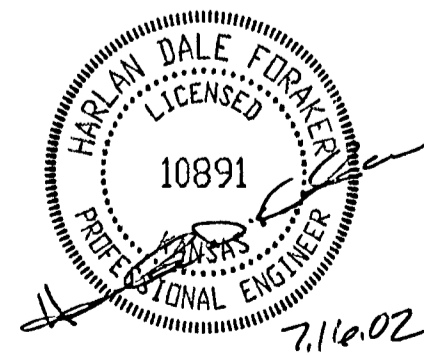
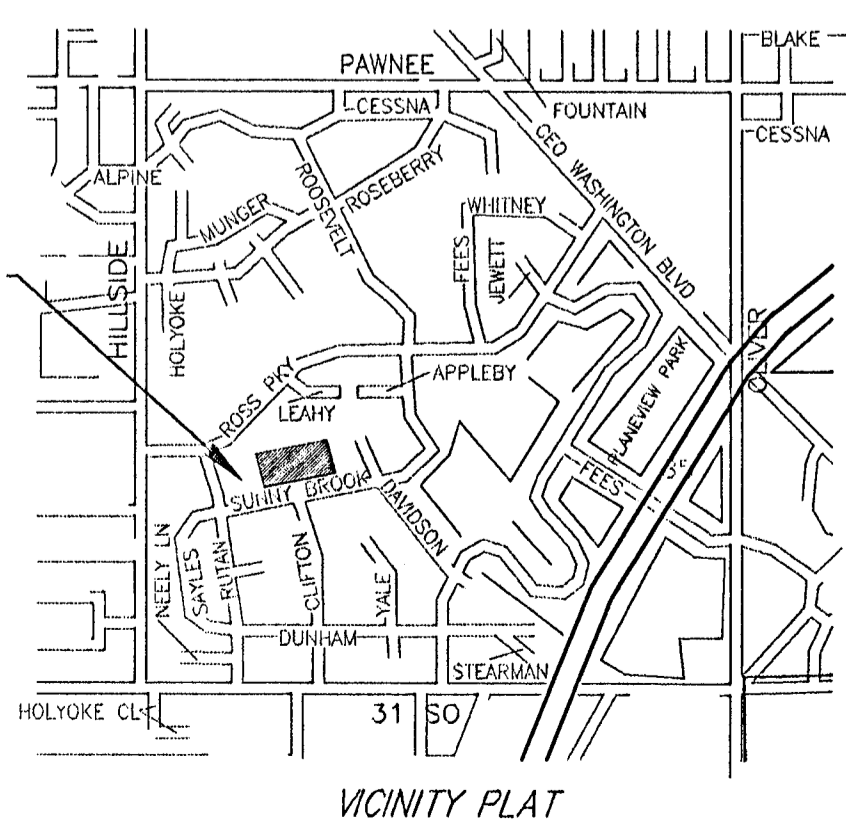
**RUNOFF DATA FOR 2 YEAR RETURN PERIOD**

Drainage Basin #	Area (Acres)	C	Tc	i 5	Q 5 (CFS)
1	0.95	0.52	26	2.87	1.46
2	1.86	0.52	20	3.30	1.44
3	1.37	0.52	20	3.30	1.16
4	1.63	0.52	20	3.30	1.19
5	0.58	0.52	39	5.21	0.68

**RUNOFF DATA FOR 100 YEAR RETURN PERIOD**

Drainage Basin #	Area (Acres)	C	Tc	i 100	Q 100 (CFS)
1	0.95	0.67	26	5.90	3.76
2	1.86	0.67	20	6.60	8.22
3	1.37	0.67	20	6.60	6.06
4	1.63	0.67	20	6.60	7.21
5	0.58	0.67	39	4.80	1.87

**FLOOD ZONE:**  
Subject property is in Zone C, as shown of Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for Sedgwick County, Kansas, Community Panel Number 200328 0025 b, effective May 15, 1986.



DRAINAGE PLAN PREPARED BY:  
**CERTIFIED ENGINEERING DESIGN, P.A.**  
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SHEET	1
TOTAL	1

**Savoy Company, P.A.**  
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