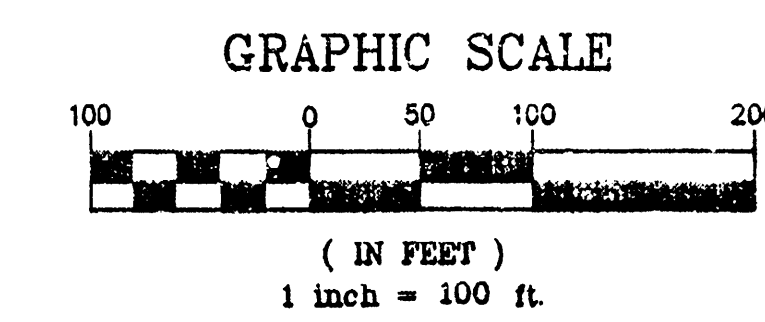
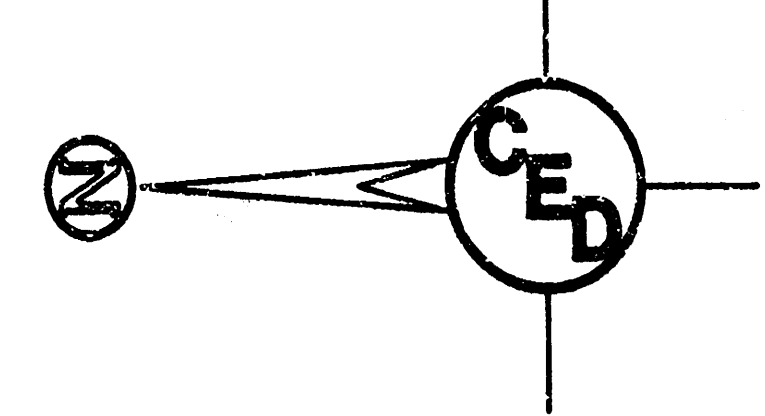


DRAINAGE PLAN FOR

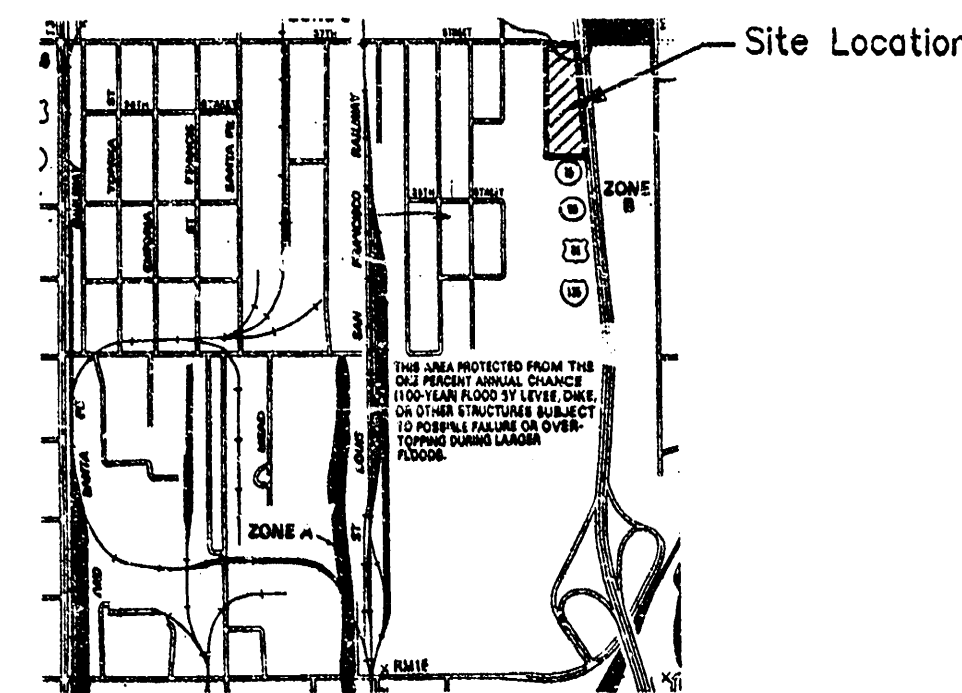
HIS HELPING HANDS

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS
IN THE NE 1/4 OF SECTION 33, T26S, R1E OF THE 6TH P.M.



FLOOD ZONE MAP

Sec. 33, T26S, R1E



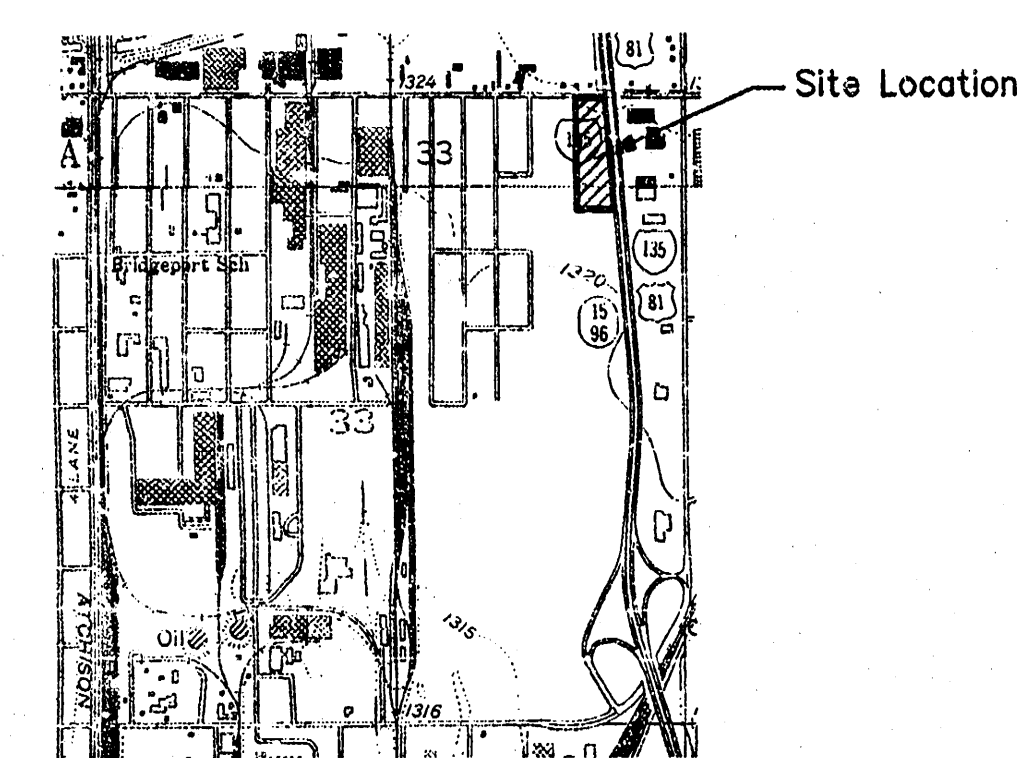
SCALE: 1" = 2,000'

FLOOD ZONE

Subject property is in Zone B, as shown of
Federal Emergency Management Agency (FEMA)
Flood Insurance Rate Map (FIRM) for Wichita,
Kansas, Community Panel Number 200328 0010
B, effective May 15, 1986.

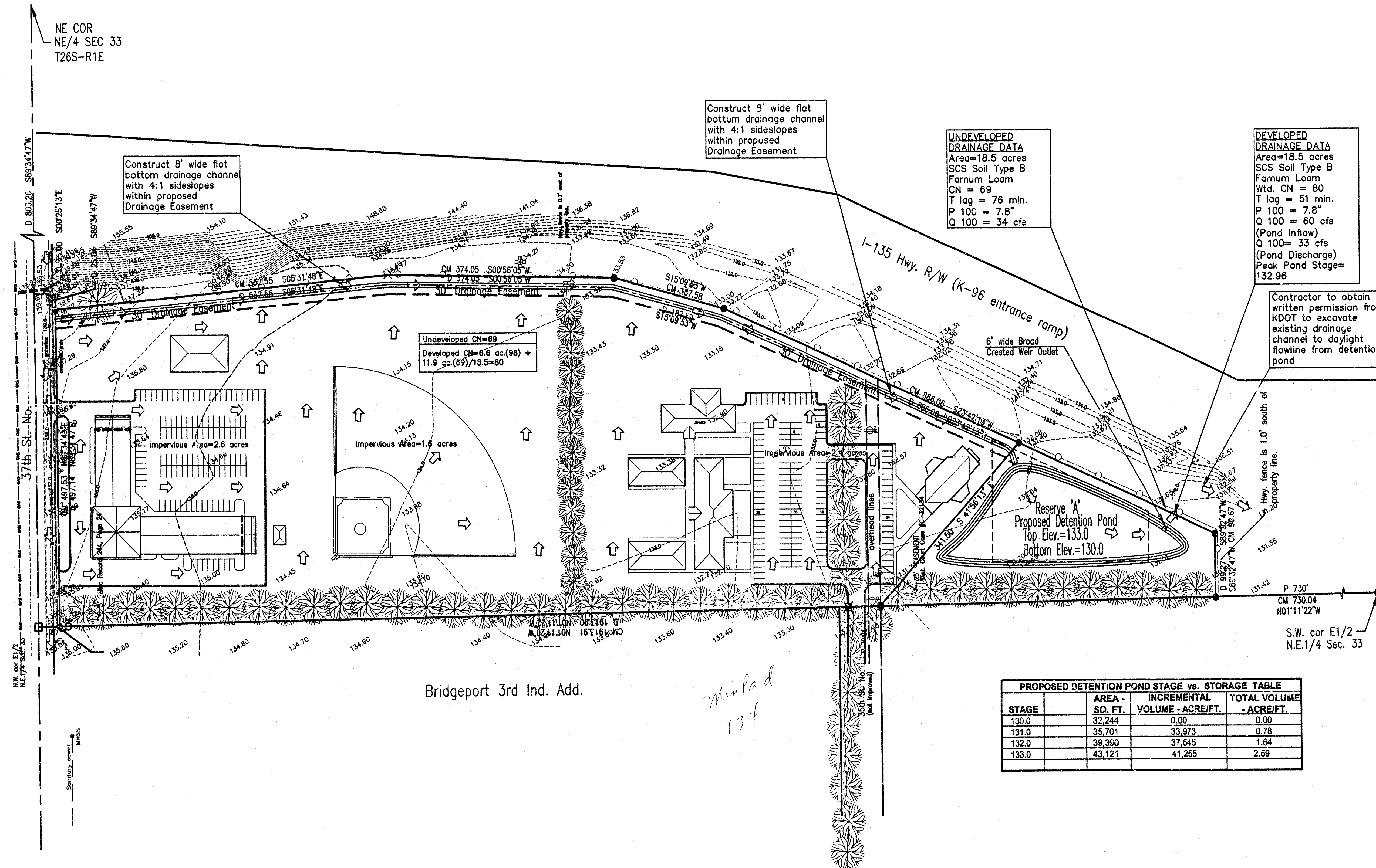
VICINITY MAP

Sec. 33, T26S, R1E



WICHITA EAST & VALLEY CENTER
QUADRANGLE
7.5 Minute Series

SCALE: 1" = 2,000'



UNDEVELOPED
DRAINAGE DATA
Area=18.5 acres
SCS Soil Type B
Furnum Loam
CN = 69
T lag = 76 min.
P 100 = 7.8"
Q 100 = 34 cfs

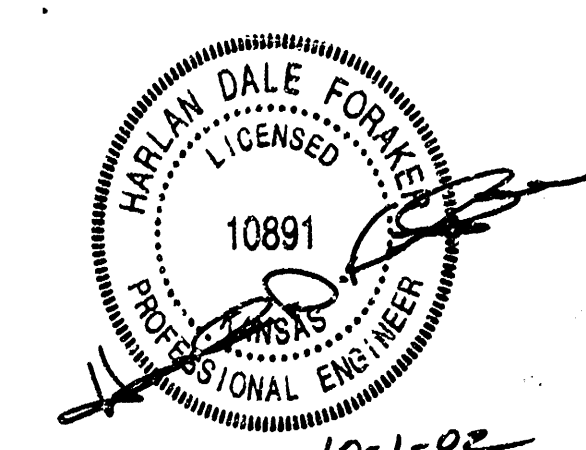
DEVELOPED
DRAINAGE DATA
Area=18.5 acres
SCS Soil Type B
Furnum Loam
Wtd. CN = 80
T lag = 51 min.
P 100 = 7.8"
Q 100 = 60 cfs
(Pond Inflow)
Q 100 = 33 cfs
(Pond Discharge)
Peak Pond Stage=
132.96

Contractor to obtain
written permission from
KDOT to excavate
existing drainage
channel to daylight
flowline from detention
pond

- - 5/8" Armstrong 1.5 78" capped rubber set
- - 3/4" iron pipe found
- - 1/2" iron pipe found
- ✕ - "SRP" capped rubber found
- CM - calculated from measurements
- D - dead distance
- P - plot distance
- W - manhole "telephone"
- W - manhole "sanitary sewer"
- - power pole
- - fire hydrant
- drainage direction

STAGE	AREA - SQ. FT.	INCREMENTAL VOLUME - ACRE/FT.	TOTAL VOLUME - ACRE/FT.
130.0	32,244	0.00	0.00
131.0	35,701	33,973	0.78
132.0	39,390	37,645	1.64
133.0	43,121	41,265	2.59

SURVEY DISCLAIMER:
TOPOGRAPHIC SURVEY AND CONTOUR MAP USED IN PREPARING PLANS WAS
PROVIDED BY ARMSTRONG LAND SURVEY, P.A., 250 N. HATHENDEN, WICHITA, KS
(316)263-0082. ENGINEER DOES NOT GUARANTEE SURVEY ELEVATIONS FOR
ACCURACY. CONTRACTOR SHALL VERIFY ELEVATIONS AND NOTIFY ENGINEER OF
ANY DISCREPANCIES.



DRAINAGE PLAN FOR
HIS HELPING HANDS ADDITION
WICHITA, KANSAS
CED PROJ. NO.: 20020942
CERTIFIED ENGINEERING DESIGN, P.A.
810 WEST DOUGLAS, SUITE C
WICHITA, KANSAS 67203
PH.(316)262-8898 FAX.(316)262-1669

DESIGNED: HDF	SCALE: 1" = 100'	SHEET 1
DRAWN: HDF	DATE: 10-1-02	
CHECKED: HDF	CED FILE: HHW-DP-DWG	TOTAL 1