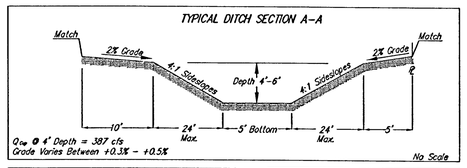
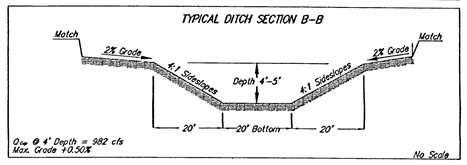
DRAINAGE PLAN
NORTHEAST MIDDLE SCHOOL ADDITION
WICHITA, SEDGWICK COUNTY, KANSAS





Basin Lot	Area acres	Tc min.	Runoff Coeficient 2-yr	5-yr	100-yr	Peak Flowrate 2-yr cfs	5-yr cfs	100-yr cfs
1	2.11	15	0.39	0.41	0.57	3.2	3.9	8.9
2	0.25	15	0.58	0.60	0.72	0.6	0.7	1.3
3	1.32	15	0.58	0.60	0.72	2.9	3.6	7.0
4	0.55	15	0.58	0.60	0.72	1.2	1.5	2.9
5	23.7	15	0.49	0.51	0.66	45	55	115
6	3.76	15	0.39	0.41	0.57	5.6	7.0	16
7	1.14	15	0.58	0.60	0.72	2.5	3.1	6.0
8	1.0	15	0.58	0.60	0.72	2.2	2.7	5.3
9	2.23	15	0.39	0.41	0.57	3.3	4.2	9.4
10	15.6	15	0.49	0.51	0.66	29	36	76
11	0.20	15	0.58	0.60	0.72	0.4	0.5	1.1

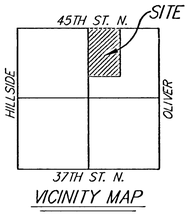
DRAINAGE NOTES:

1. The Existing Soil Type per Soil Survey of Sedgwick County, Kansas is Tabler Silty Clay Loam, Farnum Loam, Blanket Silt Loam, Rosehill Silty Clay, and Milan Loam. The Hydrologic Group For Each Soil Type in Their Respective Order is D, B, C, & B.

2. A Portion of This Parcel of Land Is Located In a ZONE A Per FEMA FIRM Map. (Community/ Panel Number: 200321 0150A) Effective Date: June 3, 1988.

3. An Off-site Drainage Agreement with Land Owner West of Plat Shall Be Obtained.

MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENING TO THE STRUCTURES		
LOTS	BLOCK	ELEVATION CITY DATUM
1	A	189.0



VICINITY MAP

P = Pine Tree
PM = Pipeline Marker
PP = Power Pole
Sign = Sign
TP = Telephone Pole
= Deciduous Tree

ELECTRIC LINE
SOUTHWESTERN BELL LINE
CABLEVISION LINE
WATER LINE
SANITARY SEWER LINE

0 100 200

DATE OF PREPARATION: 20 NOV 2001
DATE OF TOPOGRAPHY: 16 NOV 2001
CONTOUR INTERVALS = 1 FOOT

● = ½ REBAR W/ "BAUGHMAN" CAP (SET)

BENCHMARK:
TOP OF IRON AT N1/4 COR., SEC. 26.
TWP. 26-S, R-1-E
ELEV. = 190.63 CITY DATUM

D.A. = 1.36 ac.
Tc = 5 min.
CN = 80
Q2 = 97 cfs
Q5 = 153 cfs
Q100 = 325 cfs

Exist. 3-49"x33" HECMP
FL in = 183.22
FL out = 182.68
Q100 = 247 cfs

Exist. 29"x18" HECMP
FL in = 185.70

NW Cor., NW 1/4, Sec. 26, Twp. 26S, R-1E

45TH STREET NORTH

NE Cor., W1/2, Gov't. Lot 1, Sec. 26, Twp. 26S, R-1E

Prp. 24" RCP
FL in = 191.0
FL out = 190.5

D.A. = 2.3 ac.
& 18" Cross Pipe
Q100 = 33 cfs

PAVEMENT

PHILLIPS PIPE LINE COMPANY ESMT. (FILM 429, PAGE 1470)

D.A. = 225 ac.
Q2 = 119 cfs
Q5 = 190 cfs
Q100 = 419 cfs

Prp. 2-9'x5' RCBC
FL in = 189.5
FL out = 189.0
Q100 = 539 cfs

24" RCP, Riprap & Conc. Weir "By Others"

Construct Transition Channel To Match

Pond

100' DRAINAGE EASEMENT

80' DRAINAGE EASEMENT

END OF STUDIED FEMA FLOODPLAIN

BFE = 1371 MSL (185.5 CITY)

KOCH INDUSTRIES, INC.
4111 E. 37TH ST. N.
WICHITA, KANSAS 67220

BFE = 1370 MSL (184.6 CITY)

BFE = 1368 MSL (178.6 CITY)

CENTER DRAIN EAST TRIBUTARY

BFE = 1361 (177.6 CITY)

BFE = 1361 (177.6 CITY)

30' DRAINAGE & UTILITY EASEMENT

20' DRAIN. & UTIL. EASEMENT

Proposed Detention Pond Storage W.S. = 192.0 100-Yr W.S. = 194.5

RESERVE "B"

PROPOSED RESIDENTIAL LOTS

EAGLES LANDING AT NORTH OLIVER

WILLOW POINT

BROADVIEW CIR.

Prop. Curb Inlet FL = 190.2

Prop. Curb Inlet FL = 190.5

13" RCP

24" RCP

Sump 193.8

Sump 193.9

15" RCP

Prop. Curb Inlet FL = 188.4

Prop. Curb Inlet FL = 188.0

70' DRAINAGE & UTILITY EASEMENT

FL = 188.0

D.A. = 23.7 ac.
Q2 = 43 cfs
Q5 = 53 cfs
Q100 = 113 cfs

D.A. = 448 ac.
Q2 = 268 cfs
Q5 = 433 cfs
Q100 = 947 cfs

SW Cor., NW 1/4, Sec. 26, Twp. 26S, R-1E

REV. 13 DEC 2001
26 NOV 2001

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211
P:\WORD\PROJECTS\NEMIDDLES\DRPLAN2.DWG-SCZ