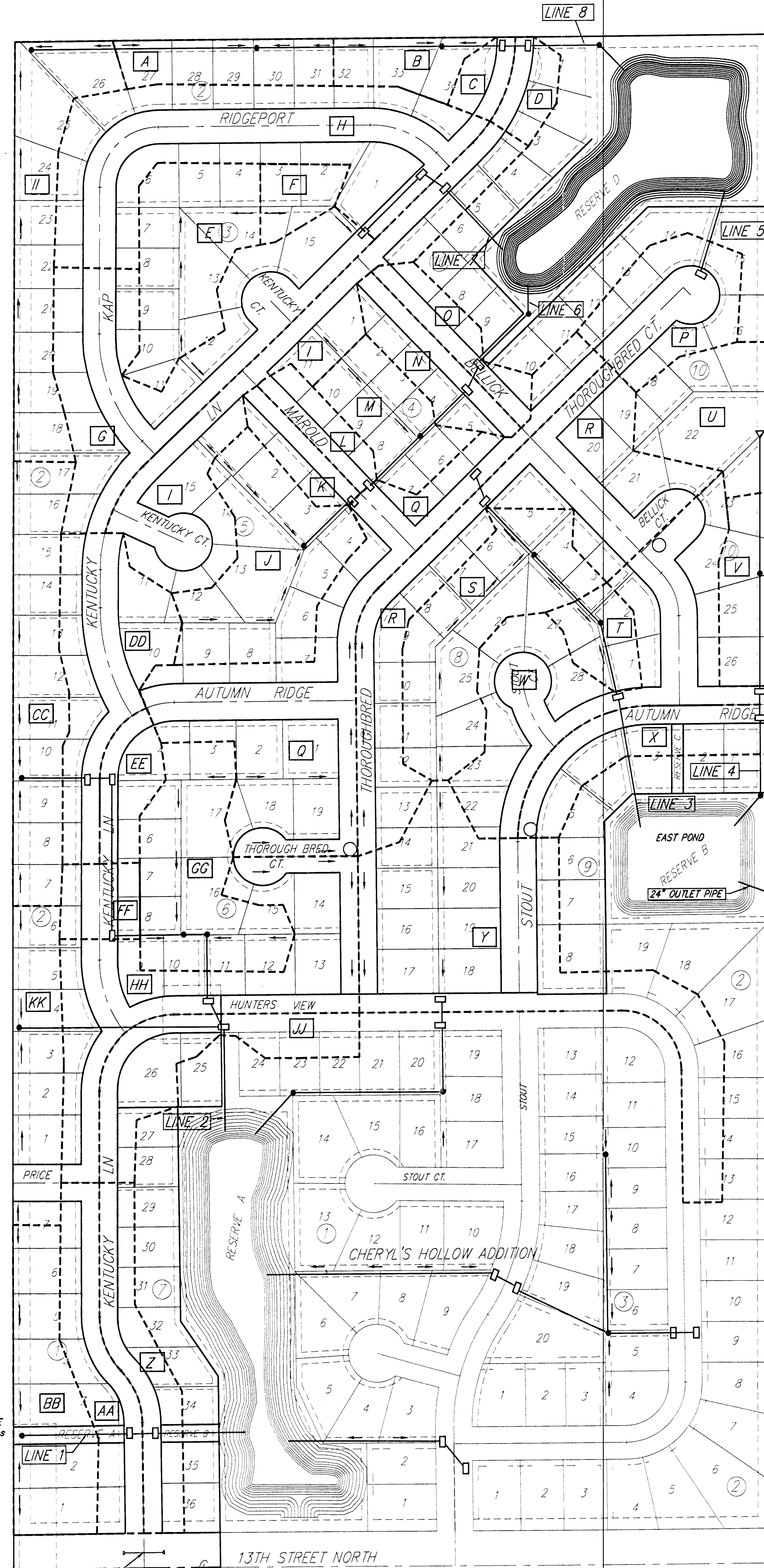


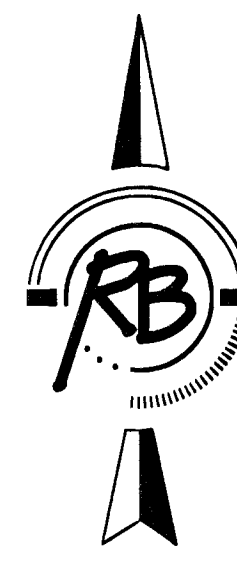
CHERYL'S HOLLOW SECOND ADDITION

Wichita, Sedgwick County, Kansas

DRAINAGE PLAN



NORTH POND:
 Outlet Structure: 4.5' NOTCHED WEIR
 Static Pool = 1360.50
 One Inflow (Developed) = 122 CFS
 One Outflow from Pond = 62 CFS
 100 Year Water Surface = 1363.2
 Discharge to Swale Flowing North



EAST POND:
 Outlet Structure: 24" RCP Pipe
 Static Pool = 1359.00
 One Inflow (Developed) = 81 CFS
 One Outflow from Pond = 27 CFS
 100 Year Water Surface = 1361.7
 Discharge to 24" RCP in Copper Gate

Existing 24" SMS IN COPPER GATE NORTH

BASIN	Description	Area (acres)	Tc (min)	C2	C100	I2	I100	Q2	Q100
A	Rear Yard	0.97	15	0.4	0.65	3.83	7.37	1.03	3.21
B	Rear Yard	0.49	15	0.4	0.65	3.83	7.37	0.75	2.35
C	Lots & Street	0.25	15	0.5	0.69	3.83	7.37	0.48	1.27
D	Lots & Street	0.32	15	0.5	0.69	3.83	7.37	0.61	1.63
E	Rear Yard	1.36	15	0.4	0.65	3.83	7.37	2.08	6.52
F	Rear Yard	0.35	15	0.4	0.65	3.83	7.37	0.54	1.68
G	Lots & Street	2.68	15	0.5	0.69	3.83	7.37	4.94	13.12
H	Lots & Street	3.05	15	0.5	0.69	3.83	7.37	5.84	15.51
I	Lots & Street	2.16	15	0.5	0.69	3.83	7.37	4.17	11.09
J	Rear Yard	1.72	15	0.4	0.65	3.83	7.37	2.64	8.24
K	Lots & Street	0.37	15	0.5	0.69	3.83	7.37	0.71	1.88
L	Lots & Street	0.39	15	0.5	0.69	3.83	7.37	0.75	1.98
M	Rear Yard	0.82	15	0.4	0.65	3.83	7.37	1.26	3.93
N	Lots & Street	0.84	15	0.5	0.69	3.83	7.37	1.23	3.25
O	Lots & Street	0.50	15	0.5	0.69	3.83	7.37	0.96	2.54
P	Lots & Street	1.10	15	0.5	0.69	3.83	7.37	2.11	5.59
Q	Lots & Street	3.34	15	0.5	0.69	3.83	7.37	6.40	16.98
R	Lots & Street	2.82	15	0.5	0.69	3.83	7.37	5.40	14.34
S	Rear Yard	1.75	15	0.4	0.65	3.83	7.37	2.68	8.38
T	Rear Yard	0.43	15	0.4	0.65	3.83	7.37	0.66	2.06
U	Rear Yard	1.07	15	0.4	0.65	3.83	7.37	1.64	5.13
V	Rear Yard	0.82	15	0.4	0.65	3.83	7.37	0.95	2.97
W	Lots & Street	2.56	15	0.5	0.69	3.83	7.37	4.90	13.02
X	Lots & Street	0.97	15	0.5	0.69	3.83	7.37	1.68	4.93
Y	Lots & Street	3.50	15	0.5	0.69	3.83	7.37	6.70	17.80
Z	Lots & Street	0.99	15	0.5	0.69	3.83	7.37	1.90	5.03
AA	Lots & Street	1.08	15	0.5	0.69	3.83	7.37	2.07	5.49
BB	Lots & Street	1.39	15	0.5	0.69	3.83	7.37	2.66	7.07
CC	Rear Yard	1.55	15	0.4	0.65	3.83	7.37	2.37	7.43
DD	Lots & Street	1.60	15	0.5	0.69	3.83	7.37	3.06	8.14
EE	Lots & Street	0.50	15	0.5	0.69	3.83	7.37	0.96	2.54
FF	Lots & Street	0.42	15	0.5	0.69	3.83	7.37	0.80	2.14
GG	Rear Yard	1.59	15	0.4	0.65	3.83	7.37	2.44	7.62
HH	Lots & Street	2.32	15	0.5	0.69	3.83	7.37	4.44	11.80
II	Rear Yard	1.53	15	0.4	0.65	3.83	7.37	2.34	7.33
JJ	Lots & Street	1.12	15	0.5	0.69	3.83	7.37	2.14	5.70
KK	Rear Yard	1.08	15	0.4	0.65	3.83	7.37	1.65	5.17

OFFSITE DRAINAGE
 Area = 16.0 acres
 One = 50 cfs
 (Per Baughman Company)

24" RCP
 U.S. FL = 1362.50
 D.S. FL = 1362.20
 Area = 1.5 acres
 One = 6 cfs

SOUTH POND:
 Outlet Structure: 3-36" RCP Pipes
 Static Pool = 1359.00
 One Inflow (Developed) = 130.0 CFS
 One Outflow from Pond = 78 CFS
 100 Year Water Surface = 1362.7
 Discharge to existing 42" 180" CMPA under 13th Street North.

Storm	Predeveloped East Basin	Developed East Basin	Predeveloped South Basin	Developed South Basin	Predeveloped North Basin	Developed North Basin	Predeveloped North Pond	Developed North Pond	Total	Developed
2 Year	19	8	48	22	32	19	98	48	147	48
5 Year	28	13	73	36	48	27	148	75	223	75
100 Year	61	27	167	76	104	62	323	165	488	165



Ruggles & Bohm, P.A.
 Engineering, Surveying, Land Planning