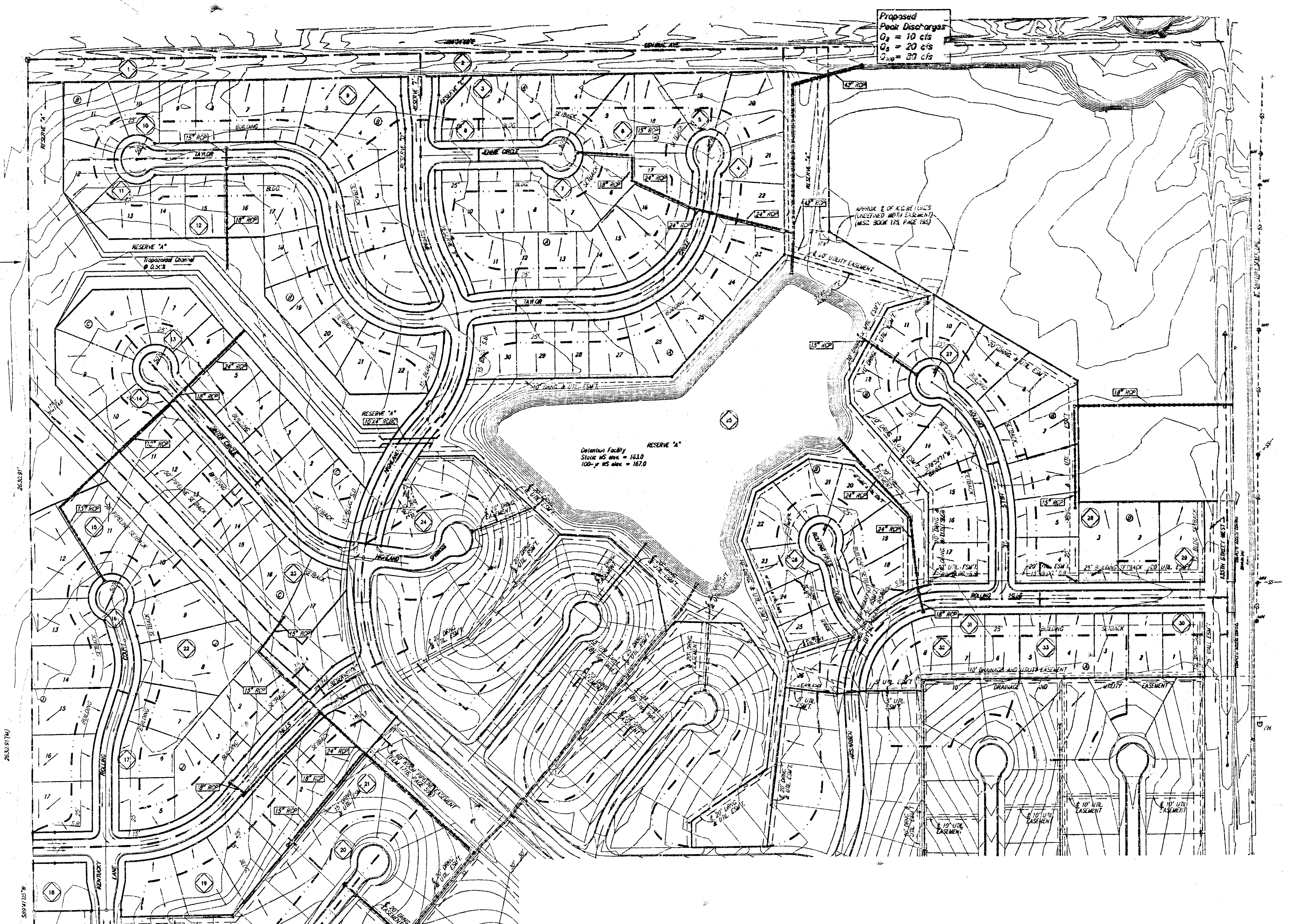
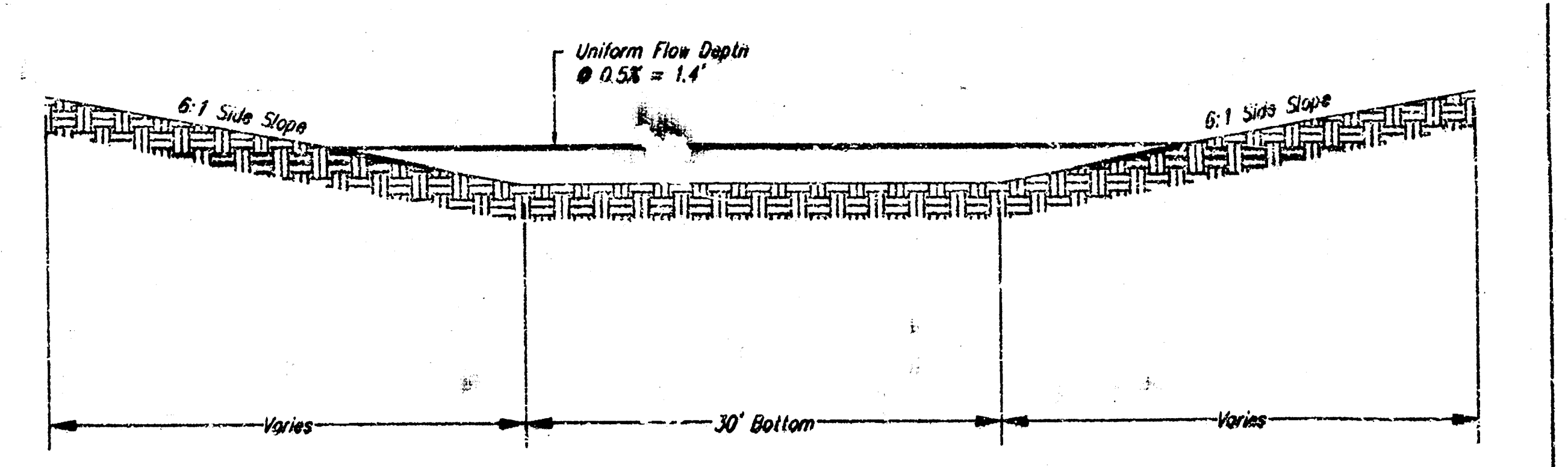
DRAINAGE PLAN
HIGHLAND SPRINGS 3RD ADDITION
WICHITA, SEDGWICK COUNTY, KANSAS


Proposed
Peak Discharges
Q_2 = 10 cfs
Q_5 = 20 cfs
Q_{100} = 30 cfs
Off-Site Flow
D.A. = 69 ac.
Q_2 = 65 cfs
Q_5 = 95 cfs
Q_{100} = 190 cfs
Trapezoidal Channel @ 0.5%
Detention Facility
Static WS elev. = 163.0
100-yr WS elev. = 167.0
RESERVE "A"
TAYLOR
JENNIE CIRCLE
HIGHLAND SPRINGS
ROLLING HILLS
KENTUCKY LANE
135TH STREET WEST
15" RCP
18" RCP
24" RCP
42" RCP
10' DRNG. & UTIL. ESM'T.
20' DRNG. & UTIL. ESM'T.
10' DRAINAGE AND UTILITY EASEMENT
25' BUILDING SETBACK

Basin ID	Area acres	Runoff Coefficient 2-yr in/in	Runoff Coefficient 5-yr in/in	Runoff Coefficient 100-yr in/in	Peak Flow 2-yr cfs	Peak Flow 5-yr cfs	Peak Flow 100-yr cfs
1	1.0	0.46	0.49	0.55	1.3	2.2	[illegible]
2	0.9	0.46	0.49	0.55	1.5	2.0	3.5
3	4.4	0.46	0.49	0.55	[illegible]	9.3	[illegible]
4	1.4	0.46	0.49	0.55	2.5	[illegible]	[illegible]
5	1.8	0.46	0.49	0.55	3.2	4.2	7.3
6	2.3	0.46	0.49	0.55	4.1	5.1	[illegible]
7	1.0	0.46	0.49	0.55	1.8	2.2	4.1
8	1.6	0.46	0.49	0.55	2.8	3.6	[illegible]
9	2.2	0.46	0.49	0.55	3.9	4.8	[illegible]
10	1.3	0.46	0.49	0.55	2.3	2.9	5.3
11	1.1	0.46	0.49	0.55	1.9	2.5	4.5
12	8.7	0.46	0.49	0.55	15	[illegible]	35
13	0.7	0.46	0.49	0.55	1.2	[illegible]	2.8
14	0.7	0.46	0.49	0.55	1.2	1.5	[illegible]
15	2.5	0.46	0.49	0.55	4.3	5.5	[illegible]
16	1.1	0.46	0.49	0.55	1.9	2.5	4.5
17	2.0	0.46	0.49	0.55	3.5	4.5	8.1
18	3.0	0.46	0.49	0.55	5.3	[illegible]	12
19	1.5	0.46	0.49	0.55	2.8	3.6	6.5
20	0.6	0.46	0.49	0.55	1.1	1.3	2.4
21	1.3	0.46	0.49	0.55	2.3	2.9	5.3
22	2.3	0.46	0.49	0.55	4.1	5.1	9.3
23	4.9	0.46	0.49	0.55	8.6	11	20
24	1.3	0.46	0.49	0.55	2.3	2.9	5.3
25	19.6	0.46	0.49	0.55	34	44	80
26	2.5	0.46	0.49	0.55	4.2	5.4	9.7
27	1.1	0.46	0.49	0.55	1.9	2.5	4.5
28	1.1	0.46	0.49	0.55	1.9	2.5	4.5
29	1.1	0.46	0.49	0.55	1.9	2.5	4.5
30	0.7	0.46	0.49	0.55	1.2	1.5	2.8
31	0.9	0.46	0.49	0.55	1.4	[illegible]	3.2
32	1.2	0.46	0.49	0.55	2.1	2.7	4.9
33	1.2	0.46	0.49	0.55	2.1	2.7	4.9


Uniform Flow Depth
@ 0.5% = 1.4'
6:1 Side Slope
6:1 Side Slope
Varies
30' Bottom
Varies

Typical Channel Section
No Scale

NOTE: The proposed drainage plan provided herein is a generally defined plan to follow for design. It is recognized and assumed that upon the final design of street and storm sewer improvements within this plat that the designer will modify or alter the general drainage plan as necessary in order to implement the installation of the improvements to [illegible] most economical design and construction possible.

29 MARCH 2002

BAUGHMAN COMPANY P.A.

ENGINEERING, SURVEYING, & PLANNING

316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211