DRAINGE PLAN

ANGEL FIRE

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

Drainage Area	Area (acres)	C_5	C_{100}	T_c (min.)	I_5 (in/hr)	I_{100} (in/hr)	Q_5 (cfs)	Q_{100} (cfs)
1	9.8	0.50	0.76	15	3.83	7.37	19	55
2	0.8	0.50	0.76	15	3.83	7.37	1.5	4.5
3	3.5	0.50	0.76	15	3.83	7.37	2.8	8.4
4	1.3	0.50	0.76	15	3.83	7.37	2.5	7.3
5	1.0	0.50	0.76	15	3.83	7.37	1.9	5.6
6	0.5	0.50	0.76	15	3.82	7.37	1.0	2.8
7	0.3	0.50	0.76	15	3.83	7.37	0.6	1.7
8	1.2	0.50	0.76	15	3.83	7.37	2.3	6.7
9	1.0	0.50	0.76	15	3.83	7.37	1.9	5.6
10	1.0	0.50	0.76	15	3.83	7.37	3.8	11
11	0.8	0.50	0.76	15	3.53	7.37	1.5	4.5
12	1.5	0.50	0.76	15	3.83	7.37	2.9	8.4
13	0.8	0.50	0.76	15	3.83	7.37	1.5	4.5
14	0.8	0.50	0.76	15	3.83	7.37	1.5	4.5
15	4.3	0.50	0.76	15	3.83	7.37	7.2	24
16	1.3	0.50	0.76	15	3.83	7.37	2.5	7.3
17	1.0	0.50	0.76	15	3.83	7.37	1.9	5.6
18	4.7	0.50	0.76	15	3.83	7.37	1.9	5.6
19	0.5	0.50	0.76	15	3.82	7.37	1.0	2.8
20	0.7	0.50	0.76	15	3.8	7.37	1.3	3.5
21	0.8	0.50	0.76	15	3.83	7.37	1.3	3.9
22	0.5	0.50	0.76	15	3.83	7.37	1.0	2.8
23	0.5	0.50	0.76	15	3.83	7.37	1.0	2.8
24	2.4	0.50	0.76	15	3.83	7.37	4.6	13
25	1.0	0.50	0.76	15	3.83	7.37	1.9	5.6
26	1.4	0.50	0.76	15	3.53	7.37	2.1	7.8
27	0.2	0.50	0.76	15	3.83	7.37	0.4	1.1
28	0.4	0.50	0.76	15	3.83	7.37	0.8	2.2
29	0.5	0.50	0.76	15	3.53	7.37	1.0	2.8
30	2.0	0.50	0.76	15	3.53	7.37	3.8	11
31	2.0	0.50	0.76	15	3.83	7.37	3.9	11
32	0.8	0.50	0.76	15	3.53	7.37	1.5	4.5
33	0.5	0.50	0.76	15	3.83	7.37	1.0	2.8
34	2.5	0.50	0.76	15	3.83	7.37	5.0	15
35	1.8	0.50	0.76	15	3.83	7.37	3.4	10
36	15.4	.40	0.76	15	3.83	7.37	30	90
37	1.5	0.50	0.76	15	3.83	7.37	2.6	8.0
38	2.7	0.50	0.76	15	3.83	7.37	5.2	15

Offsite Drainge
D.A. = 400 ac.
Q_5 = 87 cfs
Q_{25} = 184 cfs
Q_{100} = 474 cfs

Offsite Drainge
D.A. = 145 ac.
Q_5 = 45 cfs
Q_{25} = 95 cfs
Q_{100} = 244 cfs

Proposed Pond
W.S.=186.80
2-Yr W.S.=88.42
5-Yr W.S.=88.64
100-Yr W.S.=91.66

Proposed Pond
W.S.=186.53
2-Yr W.S.=88.44
5-Yr W.S.=88.97
100-Yr W.S.=91.70

Offsite Drainge
D.A. = 9.2 ac.
Q_5 = 6.9 cfs
Q_{25} = 13 cfs
Q_{100} = 39 cfs

Developed Conditions w/Detention
D.A. = 477 ac.
Q_5 = 80 cfs
Q_{25} = 164 cfs
Q_{100} = 371 cfs

DEVELOPER:
CATAWOOD, LLC
ATTN: MATT ECK
5512 W. CENTRAL
WICHITA, KS 67213
PH: (316) 942-7402

LEGAL DESCRIPTION:
THE S 1/2 OF THE SW 1/4, SEC. 13, T14S, R3-S, R-1-W OF THE 6TH P.M., EXCEPT THE SOUTH 613.00 FEET OF THE WEST 600.00' AND EXCEPT THE WEST 208.71' OF THE FEET NORTH 135.00 FEET OF THE SOUTH 754.00 FEET THERE OF.

BENCHMARK:
"□" CUT 56.7' SE OF THE SE COR. OF THE SW 1/4, 10' NE OF NE CORNER CONCRETE LIFT STATION PAD. ELEV=91.35 CITY DATUM

RESERVES "A", "B", AND "F" ARE RESERVED FOR OPEN SPACE, LANDSCAPING, BERMS, SIDEWALKS, DRAINAGE PURPOSES, AND UTILITIES AS CONFINED TO EASEMENTS.

RESERVES "C", "D" AND "E" ARE RESERVED FOR ENTRY MONUMENTS, STREETS, OPEN SPACE, LANDSCAPING, UTILITIES AND BERMS.

- ● = #4 Boughman Rebar Set
- ○ = #4 Rebar in Thimble Found
- □ = 3/4" Iron Pipe in Thimble Found
- △ = #4 Mid Kansas Rebar Found
- ⊠ = Mid Kansas 3/4" Iron Pipe Found

- CP ○ = Cable TV Pedestal
- EB □ = Electric Box
- GA ⊷ = Guy Anchor
- LP ○ = Light Pole
- PP □ = Power Pole
- SD ◢ = Satellite Dish
- Sign □ = Sign
- SSMH ● = Sanitary Sewer Manhole
- T ○ = Tree
- XFMR □ = Transformer
- SWB Ped □ = Southwestern Bell Pedestal

WATER LINE
SOUTH WESTERN BELL
GAS LINE
CABLE TV
TELEPHONE
ELECTRIC LINE
SANITARY SEWER
APPROXIMATE LOCATION OF 12" WATER LINE

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

19 JUNE 20..