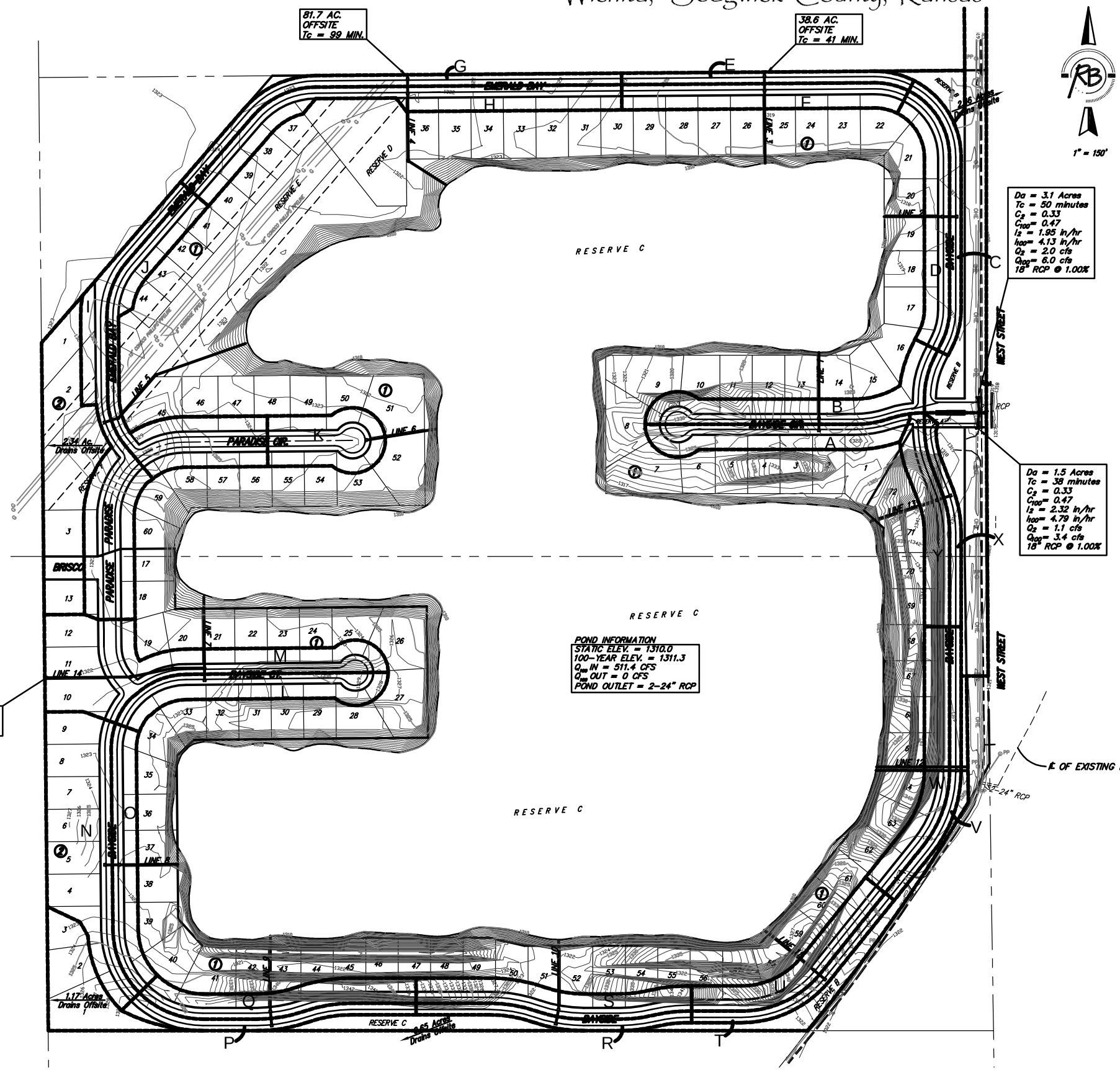
Drainage Plan
EMERALD BAY ESTATES
Wichita, Sedgwick County, Kansas

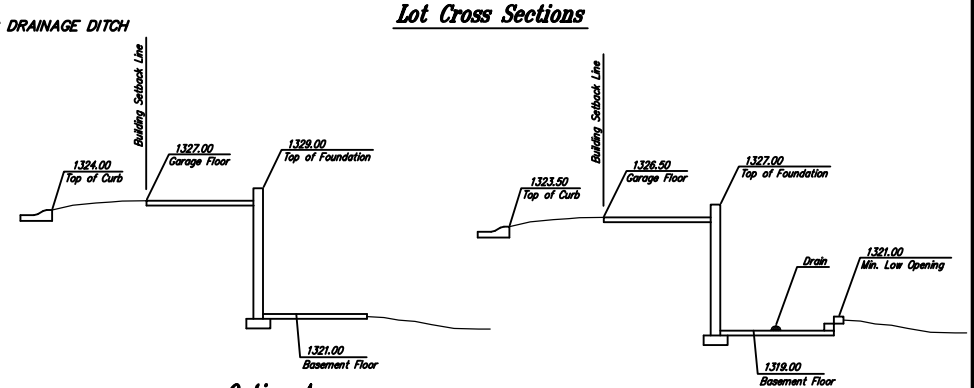


	Trib.	Area	C2	C100	AC2	AC100	Cum. AC2	Cum. AC100	TC (min.)	I2 (in/hr.)	I100 (in/hr.)	Q2 (cfs)	Q100	Required Pipe
Line 1	A	1.19	0.33	0.47	0.39	0.56	0.39	0.56	15.00	3.83	7.37	1.5	4.1	15"
	B	1.48	0.33	0.47	0.49	0.70	0.88	1.25	15.00	3.83	7.37	3.4	9.2	18"
Line 2	C	0.58	0.33	0.47	0.19	0.27	0.19	0.27	15.00	3.83	7.37	0.7	2.0	15"
	D	1.15	0.33	0.47	0.38	0.54	0.57	0.81	15.00	3.83	7.37	2.2	6.0	15"
Line 3	E	0.59	0.33	0.47	0.19	0.28	12.92	18.42	41.00	2.21	4.60	28.6	84.7	42"
	F	1.26	0.33	0.47	0.42	0.59	13.34	19.01	41.00	2.21	4.60	29.5	87.4	42"
Line 4	G	0.98	0.33	0.47	0.32	0.46	27.28	38.86	99.00	2.05	4.38	55.9	170.2	54"
	H	1.85	0.33	0.47	0.61	0.87	27.89	39.73	99.00	2.05	4.38	57.2	174.0	54"
Line 5	I	2.42	0.33	0.47	0.80	1.14	0.80	1.14	15.00	3.83	7.37	3.1	8.4	18"
	J	2.09	0.33	0.47	0.69	0.98	1.49	2.12	15.00	3.83	7.37	5.7	15.6	24"
Line 6	K	1.10	0.33	0.47	0.36	0.52	0.36	0.52	15.00	3.83	7.37	1.4	3.8	15"
Line 7	L	1.26	0.33	0.47	0.42	0.59	0.42	0.59	15.00	3.83	7.37	1.6	4.4	15"
	M	2.70	0.33	0.47	0.89	1.27	11.14	15.87	38.00	2.32	4.79	25.8	76.0	42"
Line 8	N	2.78	0.33	0.47	0.92	1.31	0.92	1.31	15.00	3.83	7.37	3.5	9.6	18"
	O	1.17	0.33	0.47	0.39	0.55	1.30	1.86	15.00	3.83	7.37	5.0	13.7	24"
Line 9	P	0.68	0.33	0.47	0.22	0.32	0.22	0.32	15.00	3.83	7.37	0.9	2.4	15"
	Q	1.23	0.33	0.47	0.41	0.58	0.63	0.90	15.00	3.83	7.37	2.4	6.6	18"
Line 10	R	0.57	0.33	0.47	0.19	0.27	0.19	0.27	15.00	3.83	7.37	0.7	2.0	15"
	S	1.24	0.33	0.47	0.41	0.58	0.60	0.85	15.00	3.83	7.37	2.3	6.3	15"
Line 11	T	0.51	0.33	0.47	0.17	0.24	0.17	0.24	15.00	3.83	7.37	0.6	1.8	15"
	U	1.04	0.33	0.47	0.34	0.49	0.51	1.31	15.00	3.83	7.37	2.0	9.7	18"
Line 12	W	1.24	0.33	0.47	0.41	0.58	0.41	0.58	15.00	3.83	7.37	1.6	4.3	24"
	V	0.59	0.33	0.47	0.19	0.28	0.60	0.86	15.00	3.83	7.37	2.3	6.3	24"
Line 13	X	0.44	0.33	0.47	0.15	0.21	0.15	0.21	15.00	3.83	7.37	0.8	1.5	15"
	Y	0.94	0.33	0.47	0.31	0.44	0.46	0.65	15.00	3.83	7.37	2.5	4.8	15"
Line 14	OFFSITE	29.80	0.33	0.47	9.83	14.01	9.83	14.01	38.00	2.32	4.79	32.5	67.1	42"

NOTE: PIPE MATERIAL IS ASSUMED TO BE RCP.

	Trib.	Inlet Top	FL IN	FL OUT	LENGTH (ft.)	SLOPE (%)
Line 1	CI	1324.00	--	1321.00	35	1.00
	CI	1324.00	1320.65	1320.55	183	5.77
	Outlet	--	--	1310.00	--	
Line 2	CI	1324.00	--	1321.00	41	1.00
	CI	1324.00	1320.59	1320.49	162	6.48
	Outlet	--	--	1310.00	--	
Line 3	CI	1324.00	--	1319.00	41	1.00
	CI	1324.00	1318.59	1318.49	201	4.22
	Outlet	--	--	1310.00	--	
Line 4	CI	1323.00	--	1317.50	41	1.00
	CI	1323.00	1317.09	1316.99	187	1.00
	MH	1322.00	1315.12	1315.02	124	4.05
	Outlet	--	--	1310.00	--	
Line 5	CI	1323.00	--	1320.00	41	1.00
	CI	1323.00	1319.59	1319.49	157	1.00
	MH	1325.50	1317.92	1317.82	263	2.97
	Outlet	--	--	1310.00	--	
Line 6	CI	1323.50	--	1320.50	198	5.38
	Outlet	--	--	1310.00	--	
Line 7	CI	1323.60	--	1315.00	35	5.43
	CI	1323.60	1313.10	1313.00	197	1.52
	Outlet	--	--	1310.00	--	
Line 8	CI	1324.00	--	1320.00	41	1.00
	CI	1324.00	1319.59	1319.49	162	5.86
	Outlet	--	--	1310.00	--	
Line 9	CI	1324.00	--	1320.00	41	1.00
	CI	1324.00	1319.59	1319.49	209	4.54
	Outlet	--	--	1310.00	--	
Line 10	CI	1324.00	--	1320.00	41	1.00
	CI	1324.00	1319.59	1319.49	190	4.99
	Outlet	--	--	1310.00	--	
Line 11	CI	1324.00	--	1321.00	41	1.00
	CI	1324.00	1320.59	1320.49	177	5.93
	Outlet	--	--	1310.00	--	
Line 12	Inlet	--	--	1320.00	184	0.55
	CI	1324.00	1318.99	1318.99	41	0.56
	CI	1324.00	1318.76	1318.76	31	0.52
	Outlet	--	--	1318.60	--	
Line 13	CI	1324.00	--	1321.00	41	1.00
	CI	1324.00	1320.59	1320.49	192	5.46
	Outlet	--	--	1310.00	--	
Line 14	AI	1322.00	--	1317.50	233	1.00
	MH	1325.00	1315.17	1315.07	119	1.00
	MH	1324.20	1313.88	1313.88	88	1.00

Lot Cross Sections



DWG FILE: SURVEY BASE
PROJECT NO. 2745P
November 1, 2005

Ruggles & Bohm, P.A.
Engineering, Surveying, Land Planning
924 North Main
Wichita, Kansas 67203
www.rbkansas.com
(316) 264-8008
(316) 264-4621 fax
E-mail: info@rbkansas.com