D R A G O N S C H E M A T I C S

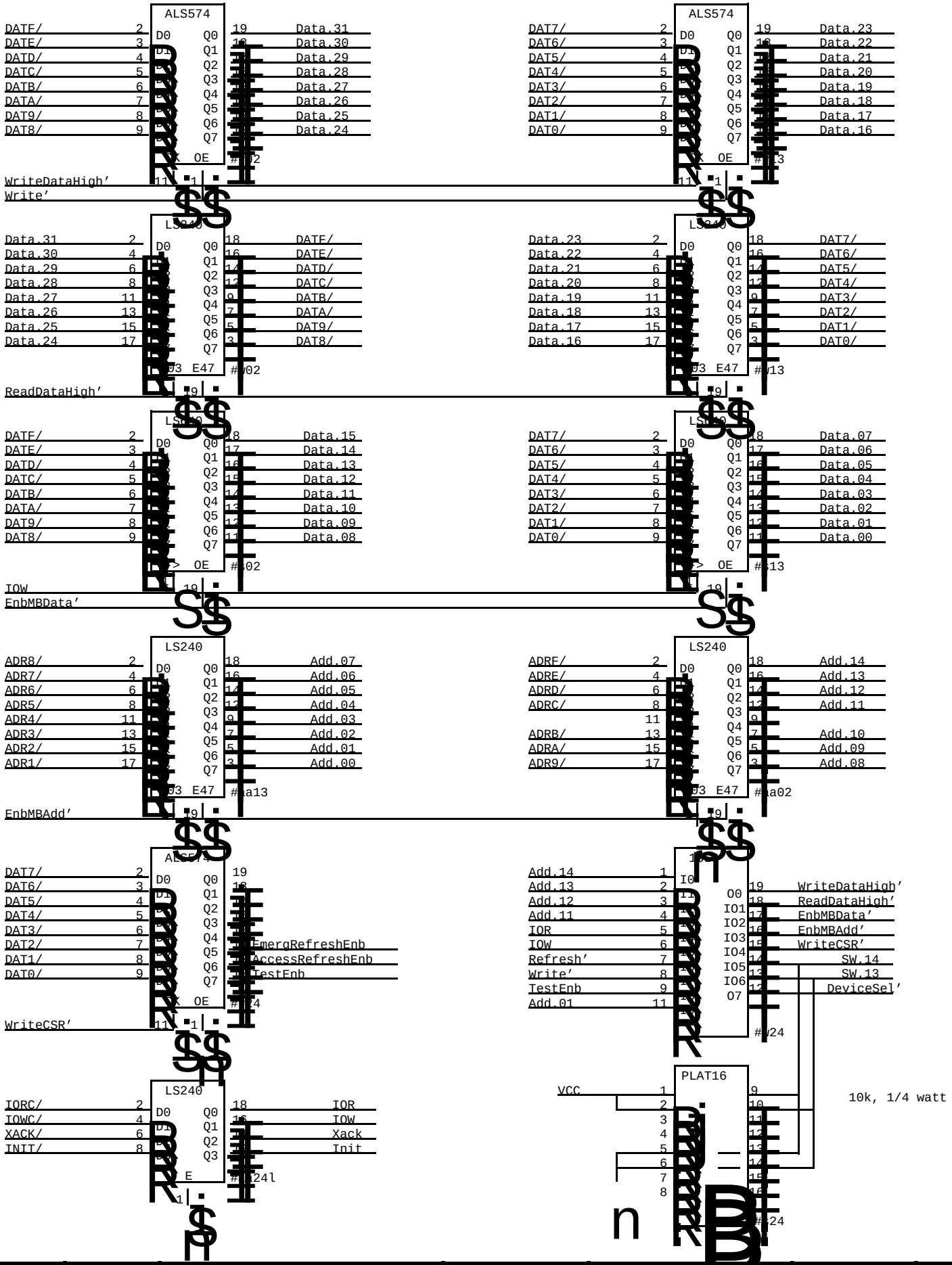
C r o s s R a m T e s t B o a r d

Table of contents

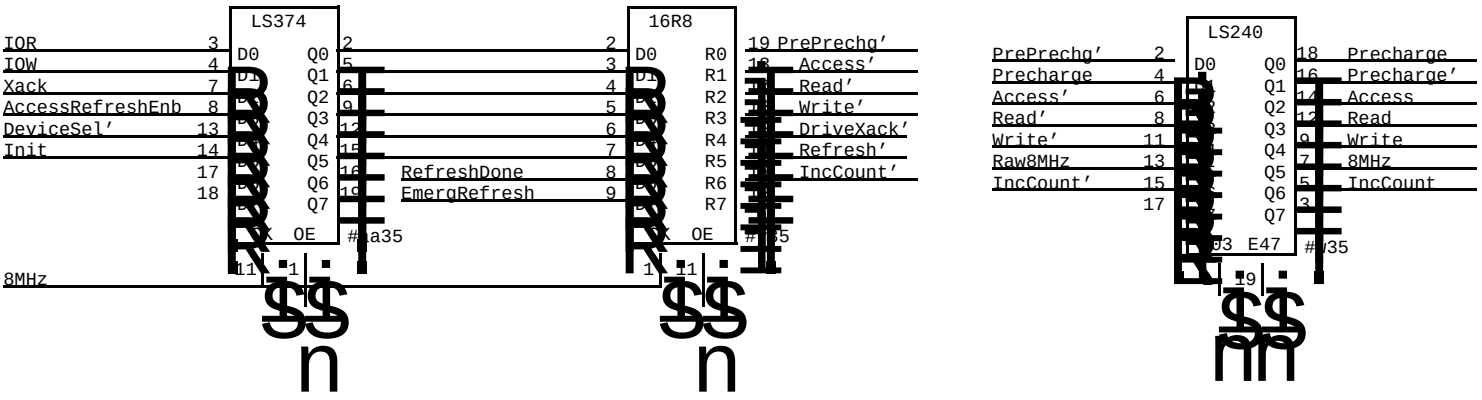
These drawings use the following [SIL] user.cm parameters:

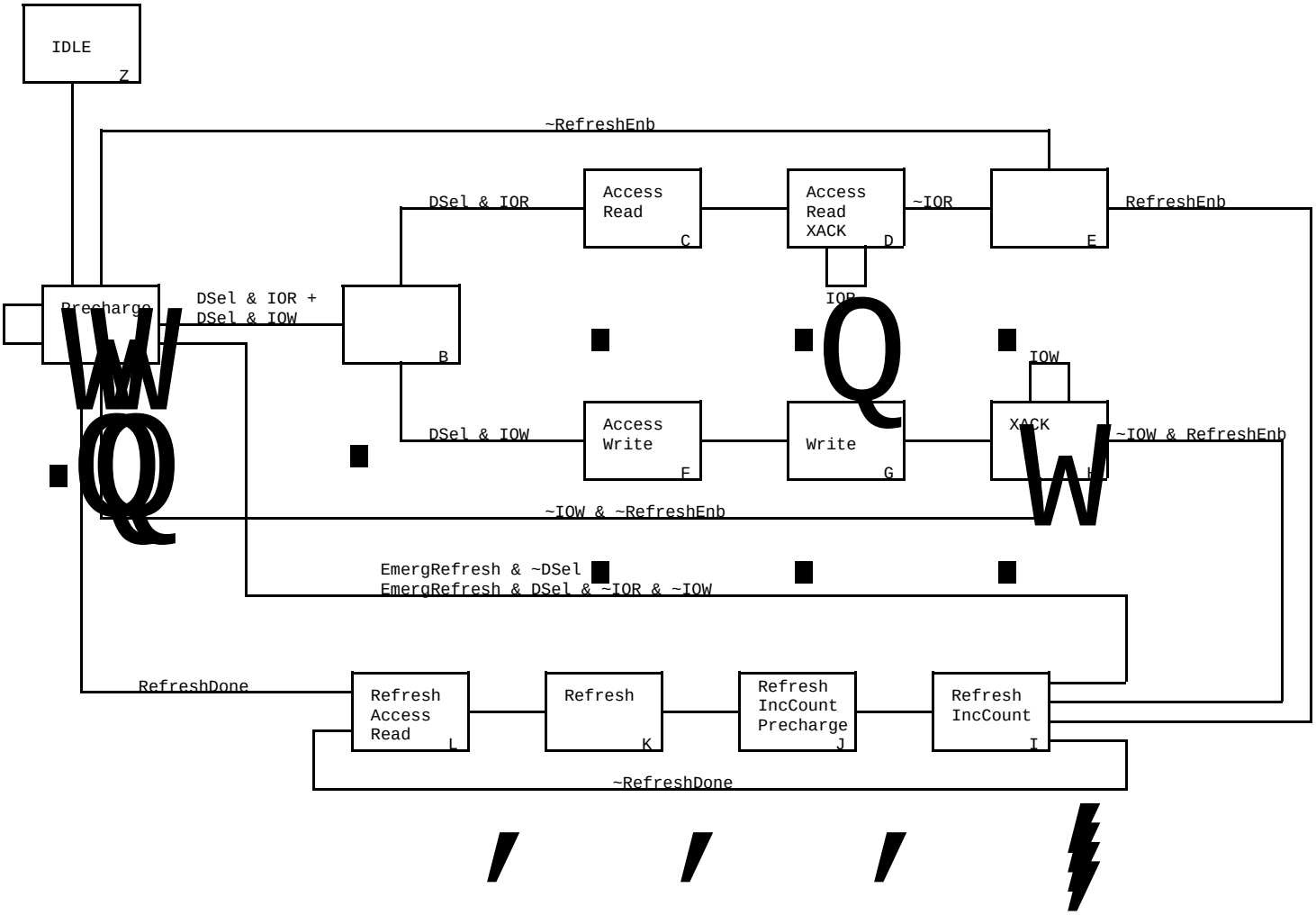
```
0: Helvetica10
1: Helvetica7
2: Template64
3: Gates32
5: Dicentra.lb5
6: Dicentra.lb6
7: Dicentra.lb7
8: Dicentra.lb8
A: Dicentra.Analyze
Y: 712
```

All files are kept on [Indigo]<Dragon>

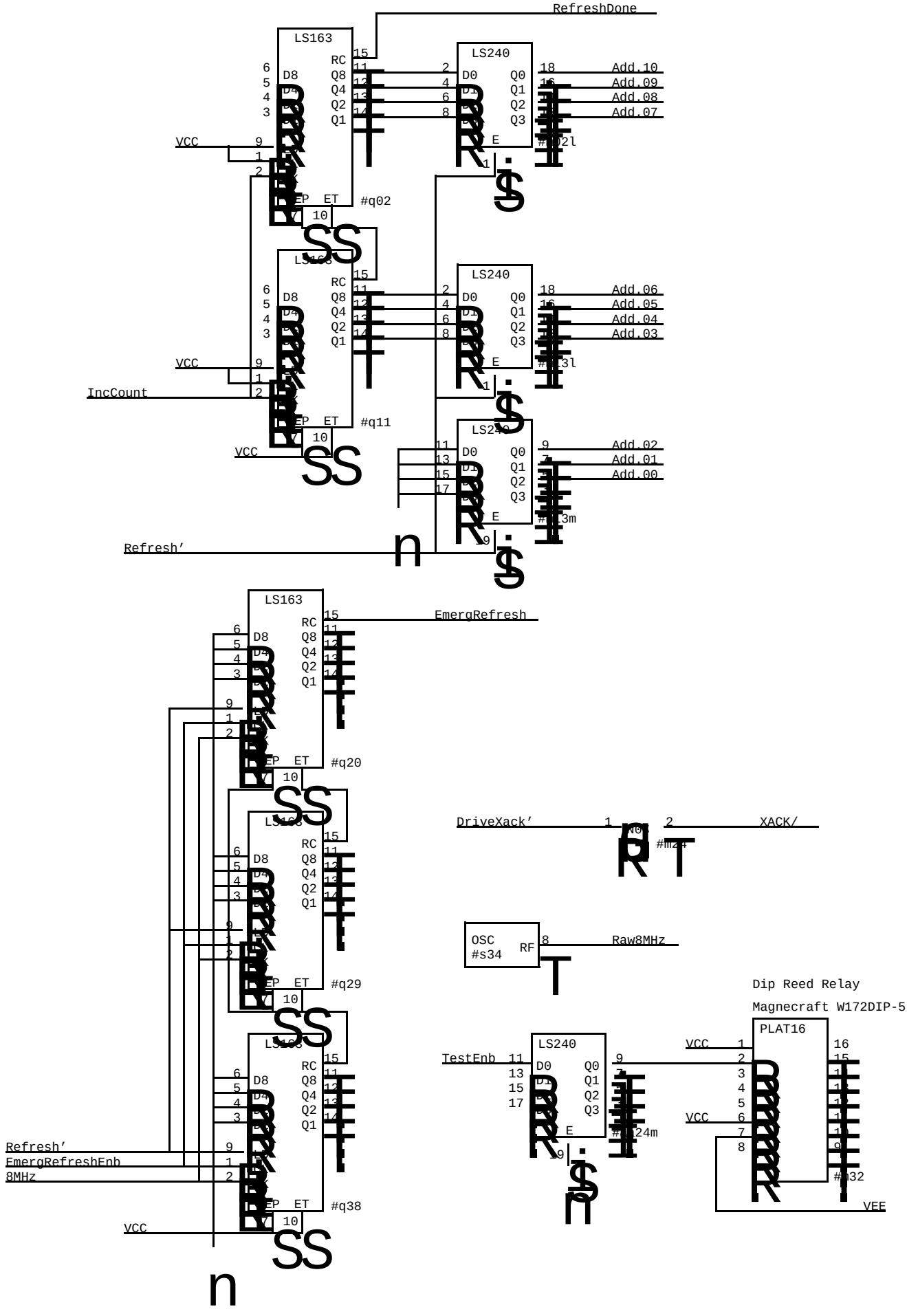


XEROX PARC	Project	Drawing	File	Designer	Rev	Date	Page
	Dragon	Address, Data Buffers	CRTest01.sil	Jim Gasbarro	A	7/26/85	01

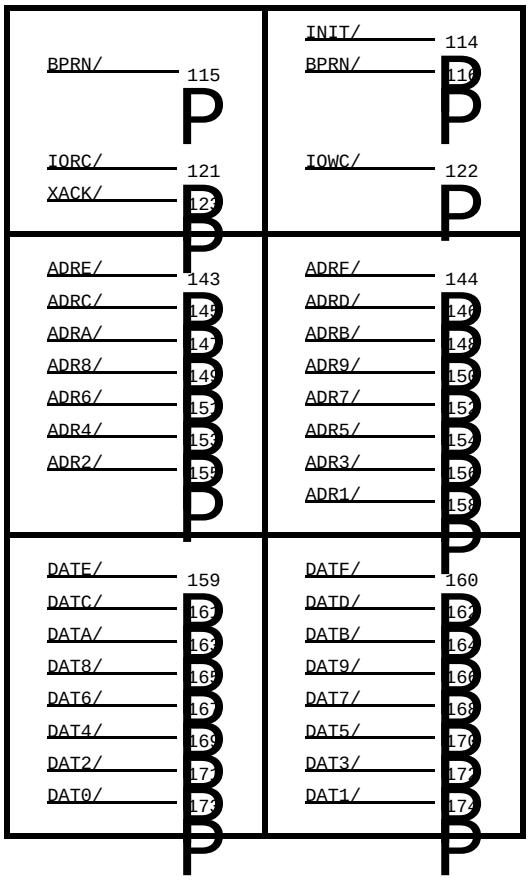


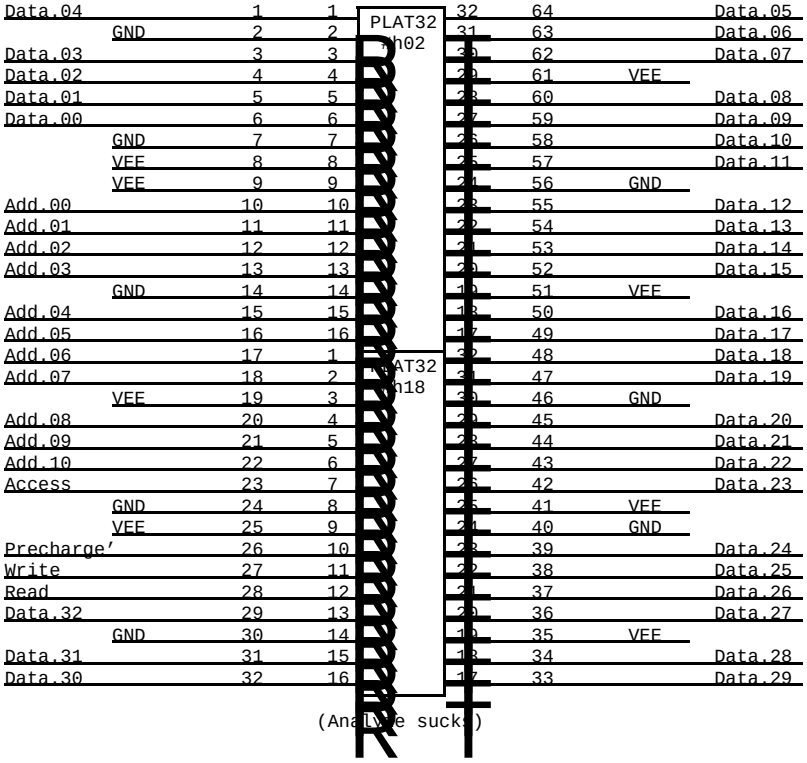


XEROX PARC	Project	Drawing	File	Designer	Rev	Date	Page
	Dragon	State Machine	CRTest02.sil	Jim Gasbarro	A	7/26/85	02

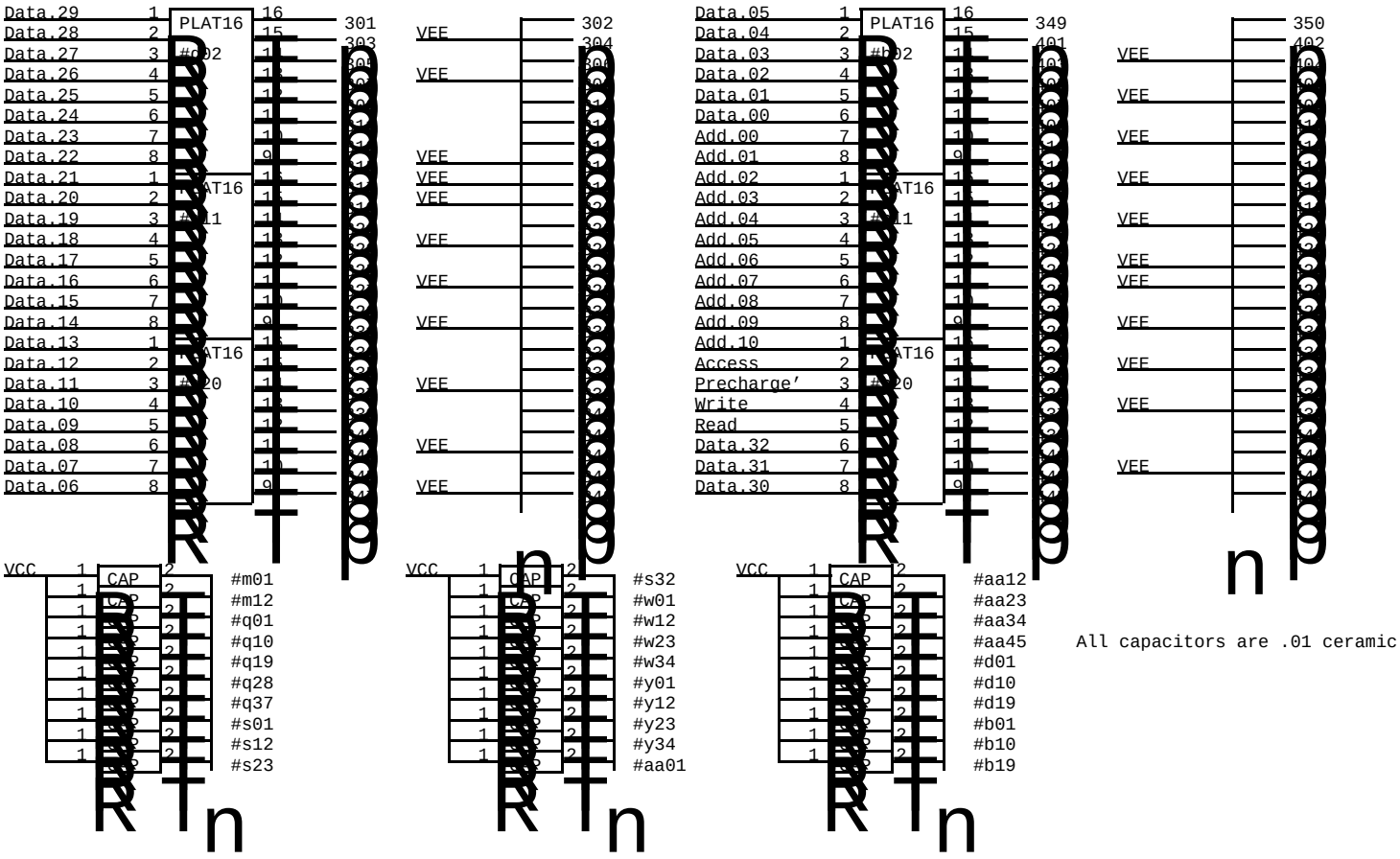


XEROX PARC	Project	Drawing	File	Designer	Rev	Date	Page
	Dragon	Refresh	CRTest03.sil	Jim Gasbarro	A	7/26/85	03



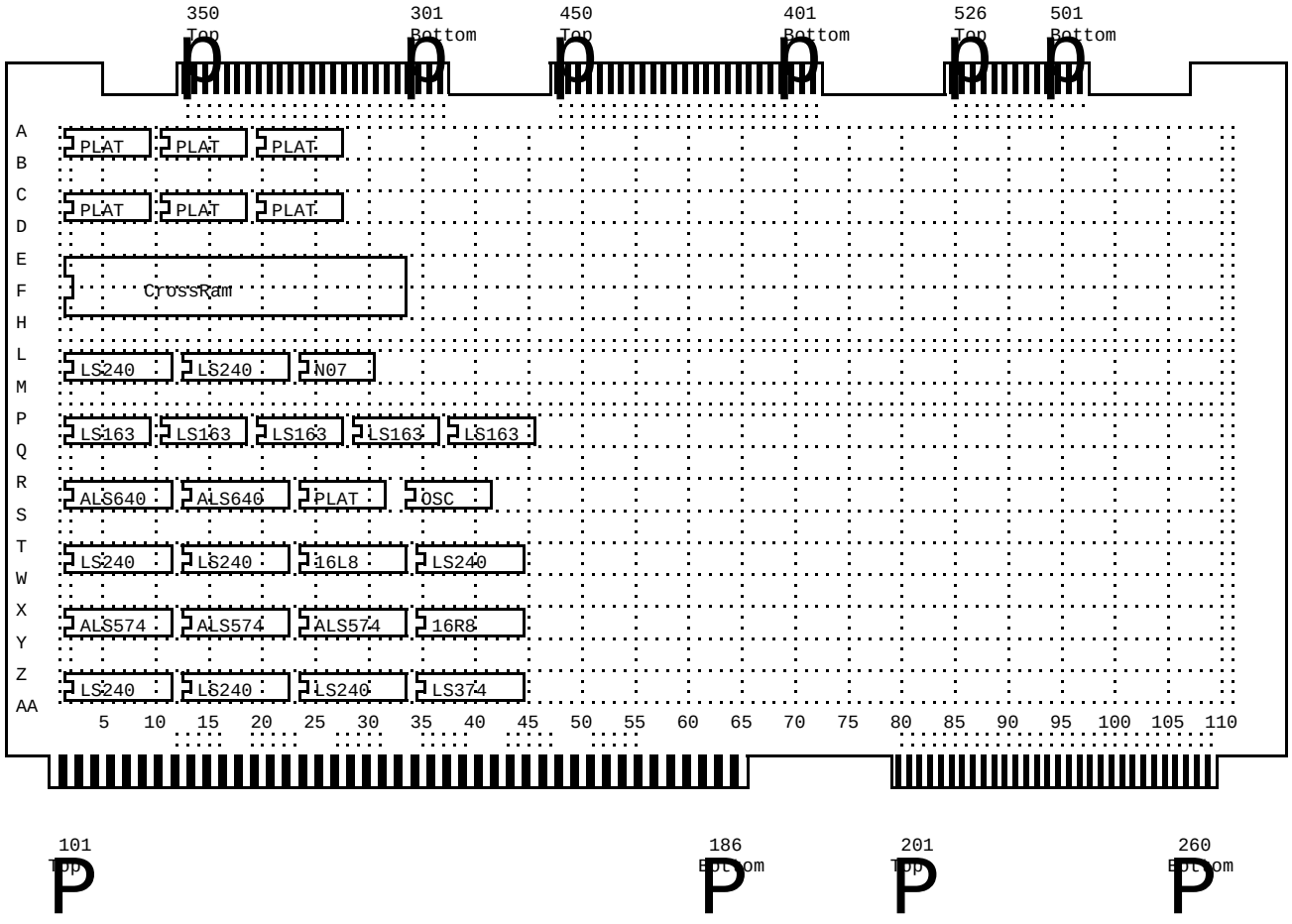


Termination resistors should be around 30 to 50 ohms.
(To be experimentally determined)



All capacitors are .01 ceramic

XEROX PARC	Project	Drawing	File	Designer	Rev	Date	Page
	Dragon	Connectors, Terminators	CRTest04.sil	Jim Gasbarro	A	7/25/85	04



Multibus Address	15	14	13	12 — 01			
Chip Address	14	13	12	11 — 00	IOW	IOR	Ram access
	S	S	1	— X — 1	Write Data High		NO
	S	S	1	— X — 0	WriteCSR		NO
	S	S	0	1 — Address		Read Data High	YES
	S	S	0	0 — Address		Read Data Low	YES
	S	S	0	X — Address	Write Data Low		YES

XEROX PARC	Project	Reference	File	Designer	Rev	Date	Page
	Dragon	Stitchweld Layout	CRTest05.sil	Jim Gasbarro	A	7/26/85	05

Cable 0

Signal Name	Probe Pin#	Connector Pin#	Cable Wire#		Signal Name	Probe Pin#	Connector Pin#	Cable Wire#	
	A1					25	A33	61	Data.17
	B1					26	B33	62	GND
	A2						A34	63	
	B2					27	B34	64	Data.16
1	A3	1		Data.29			A35	65	
2	B3	2		GND			B35	66	
	A4	3				28	A36	67	VCC
3	B4	4		Data.28			B36	68	
	A5	5					A37	69	
	B5	6				29	B37	70	Data.15
4	A6	7		VCC		30	A38	71	GND
	B6	8					B38	72	
	A7	9				31	A39	73	Data.14
5	B7	10		Data.27		32	B39	74	VCC
6	A8	11		GND			A40	75	
	B8	12				33	B40	76	Data.13
7	A9	13		Data.26		34	A41	77	GND
8	B9	14		VCC			B41	78	
	A10	15				35	A42	79	Data.12
9	B10	16		Data.25			B42	80	
10	A11	17		GND			A43	81	
	B11	18				36	B43	82	GND
11	A12	19		Data.24			A44	83	
	B12	20					B44	84	
	A13	21					A45	85	
12	B13	22		GND			B45	86	
	A14	23					A46	87	
	B14	24					B46	88	
	A15	25					A47	89	
	B15	26					B47	90	
	A16	27					A48	91	
	B16	28					B48	92	
	A17	29					A49	93	
	B17	30					B49	94	
	A18	31					A50	95	
	B18	32					B50	96	
	A19	33				37	A51	97	Data.11
	B19	34				38	B51	98	VCC
	A20	35					A52	99	
	B20	36				39	B52	100	Data.10
	A21	37		VCC		40	A53	101	GND
	B21	38					B53	102	
	A22	39				41	A54	103	Data.09
13	B22	40		Data.23		42	B54	104	VCC
14	A23	41		GND			A55	105	
	B23	42				43	B55	106	Data.08
15	A24	43		Data.22			A56	107	
16	B24	44		VCC			B56	108	
	A25	45				44	A57	109	VCC
17	B25	46		Data.21			B57	110	
18	A26	47		VCC			A58	111	
	B26	48				45	B58	112	Data.07
19	A27	49		Data.20		46	A59	113	GND
20	B27	50		VCC			B59	114	
21	A28	51		Data.19		47	A60	115	Data.06
22	B28	52		GND		48	B60	116	VCC
	A29	53					A61	117	
	B29	54				49	B61	118	Data.05
	A30	55				50	A62	119	GND
	B30	56					B62	120	
	A31	57					A63		
23	B31	58		Data.18			B63		
24	A32	59		VCC			A64		
	B32	60					B64		

VCC and GND should be bussed and bypassed on each end of probe card.

XEROX PARC	Project	Reference	File	Designer	Rev	Date	Page
	Dragon	Probe Card Connector 0	CRTest06.sil	Jim Gasbarro	A	7/25/85	06

Cable 1

Signal Name / Probe Pin# / Connector Pin# / Cable Wire#				Signal Name / Probe Pin# / Connector Pin# / Cable Wire#			
	A1			23	A33	181	Add.06
	B1			24	B33	182	VCC
	A2				A34	183	
	B2			25	B34	184	Add.07
1	A3	121	Data.04		A35	185	
	B3	122			B35	186	
	A4	123		26	A36	187	VCC
2	B4	124	GND		B36	188	
	A5	125			A37	189	
	B5	126		27	B37	190	Add.08
3	A6	127	Data.03	28	A38	191	GND
4	B6	128	VCC		B38	192	
	A7	129		29	A39	193	Add.09
5	B7	130	Data.02	30	B39	194	VCC
6	A8	131	GND		A40	195	
	B8	132		31	B40	196	Add.10
7	A9	133	Data.01	32	A41	197	GND
8	B9	134	VCC		B41	198	
	A10	135		33	A42	199	Access
9	B10	136	Data.00		B42	200	
	A11	137			A43	201	
	B11	138			B43	202	GND
10	A12	139	GND		A44	203	
	B12	140			B44	204	
	A13	141			A45	205	
	B13	142	VCC		B45	206	
	A14	143			A46	207	
	B14	144			B46	208	
	A15	145			A47	209	
	B15	146			B47	210	
	A16	147			A48	211	
	B16	148			B48	212	
	A17	149			A49	213	
	B17	150			B49	214	
	A18	151			A50	215	
	B18	152			B50	216	
	A19	153		34	A51	217	VCC
	B19	154			B51	218	
	A20	155			A52	219	
	B20	156		35	B52	220	Precharge’
	A21	157	VCC	36	A53	221	GND
	B21	158			B53	222	
	A22	159		37	A54	223	Write
11	B22	160	Add.00	38	B54	224	VCC
12	A23	161	VCC		A55	225	
	B23	162		39	B55	226	Read
13	A24	163	Add.01	40	A56	227	GND
14	B24	164	GND		B56	228	
	A25	165		41	A57	229	Data.32
15	B25	166	Add.02		B57	230	
16	A26	167	VCC		A58	231	
	B26	168		42	B58	232	GND
17	A27	169	Add.03		A59	233	
	B27	170			B59	234	
	A28	171		43	A60	235	Data.31
18	B28	172	GND	44	B60	236	VCC
	A29	173			A61	237	
	B29	174			B61	238	
19	A30	175	Add.04	45	A62	239	Data.30
20	B30	176	VCC	46	B62	240	GND
	A31	177		47	A63		
21	B31	178	Add.05	48	B63		
22	A32	179	GND	49	A64		
	B32	180		50	B64		

VCC and GND should be bussed and bypassed on each end of probe card.

XEROX PARC	Project	Reference	File	Designer	Rev	Date	Page
	Dragon	Probe Card Connector 1	CRTest07.sil	Jim Gasbarro	A	7/25/85	07