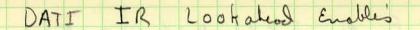
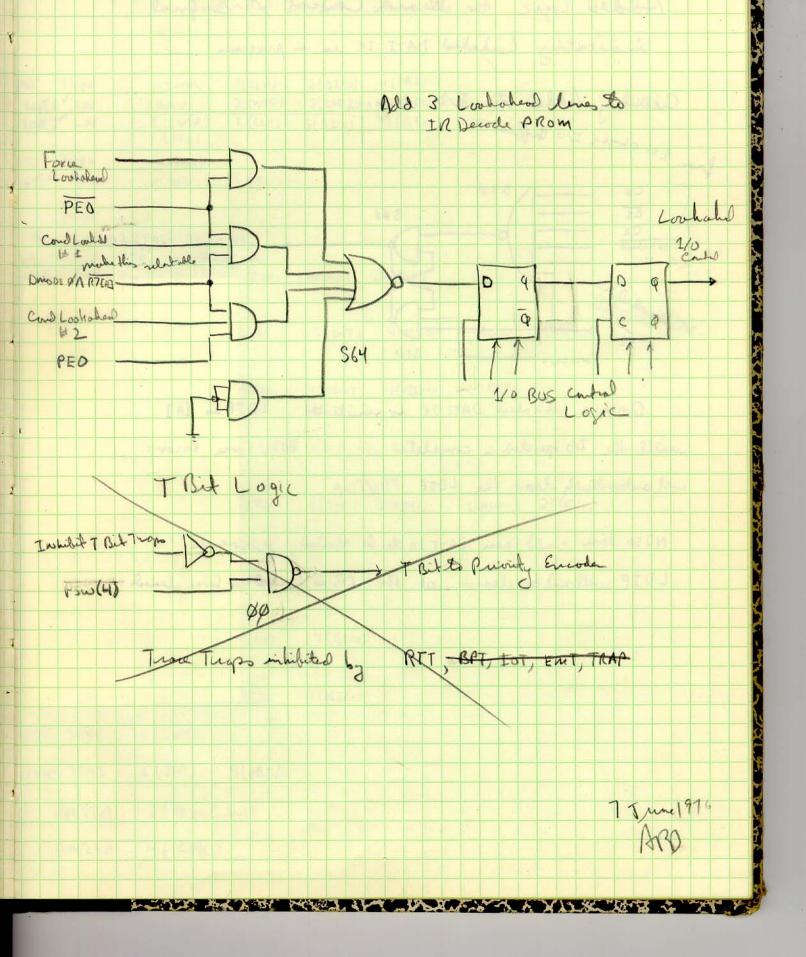
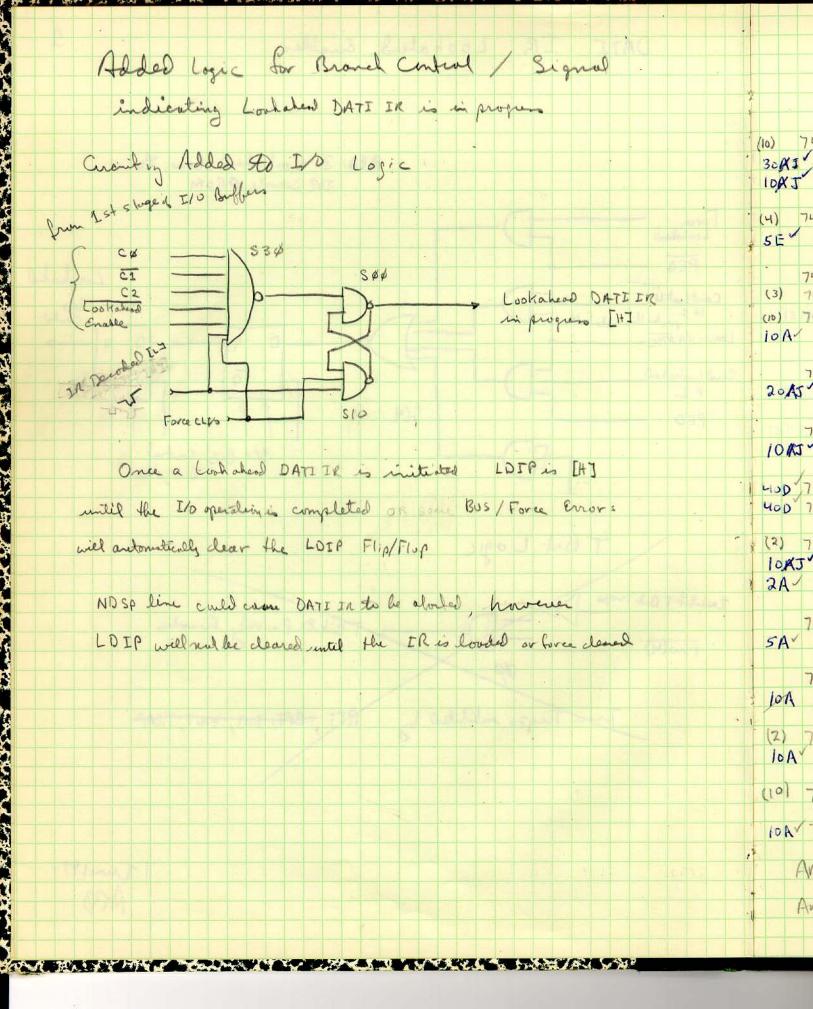


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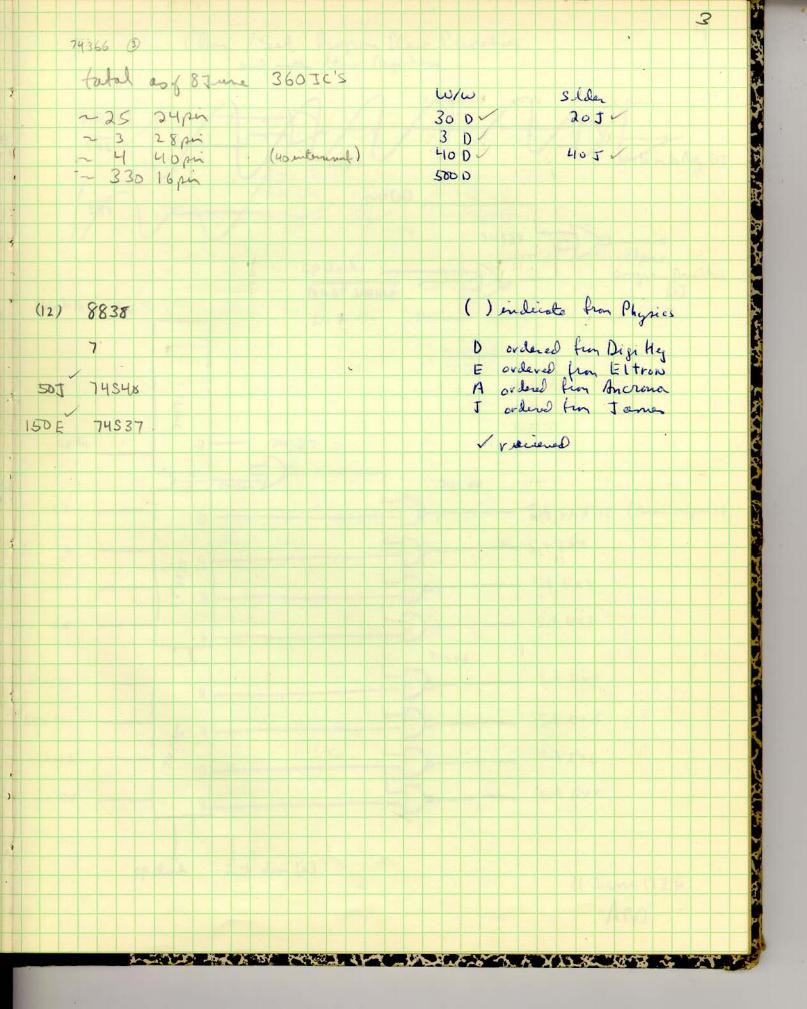
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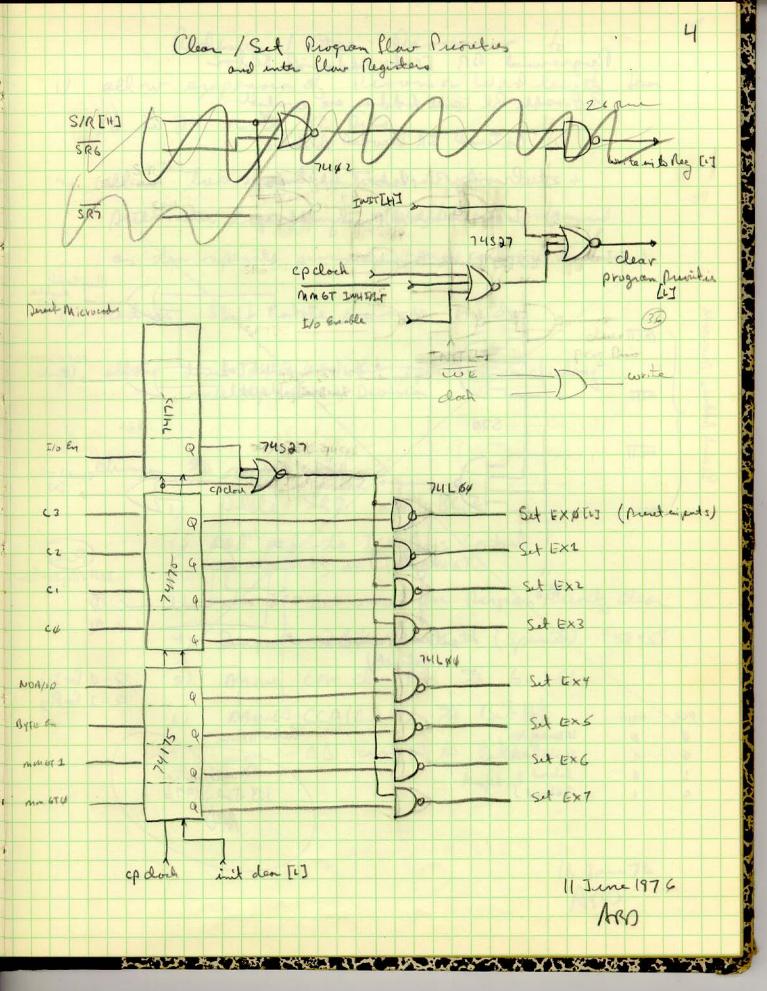
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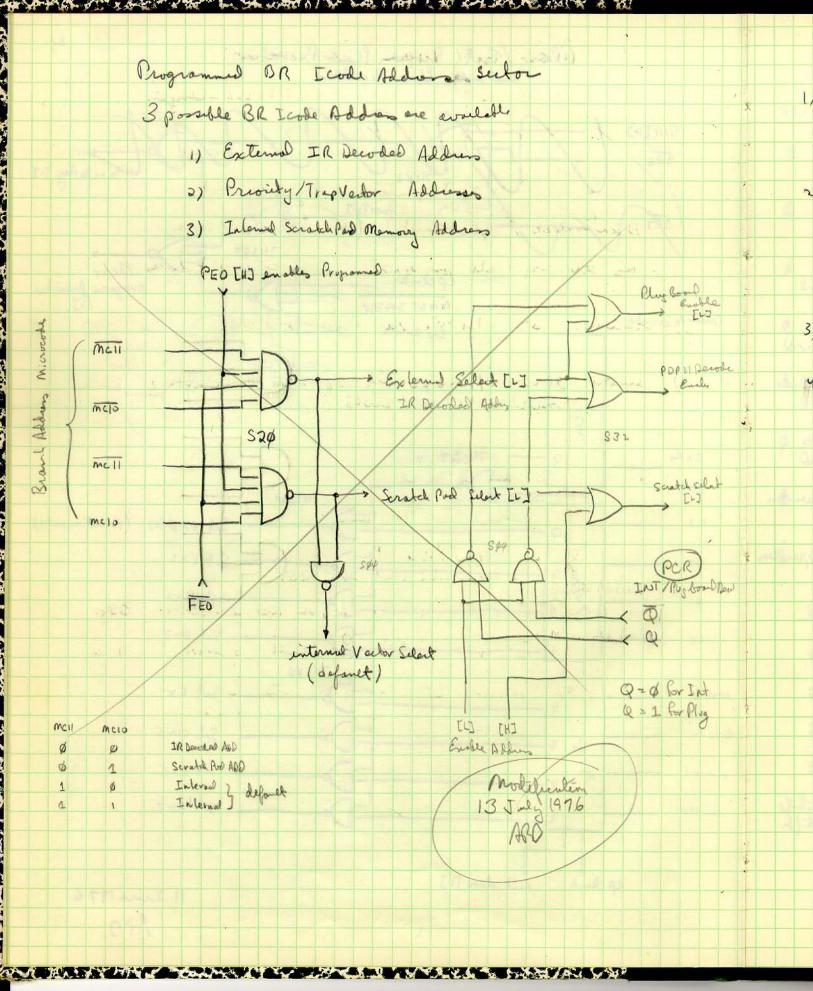
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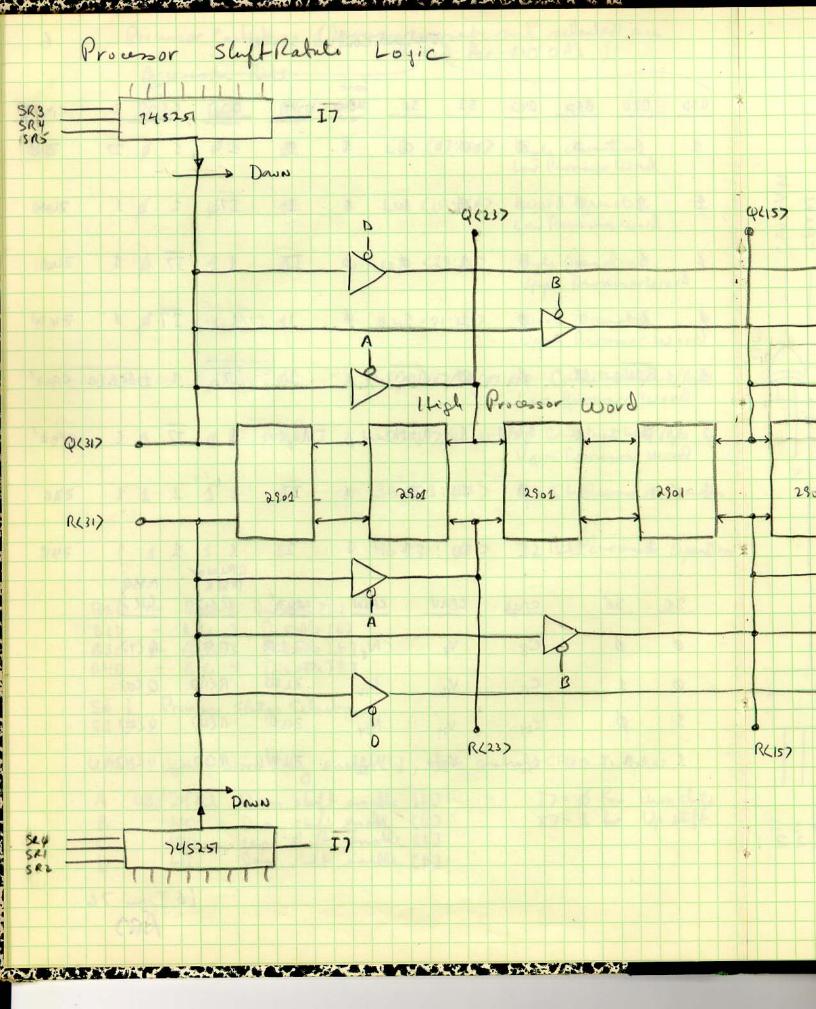
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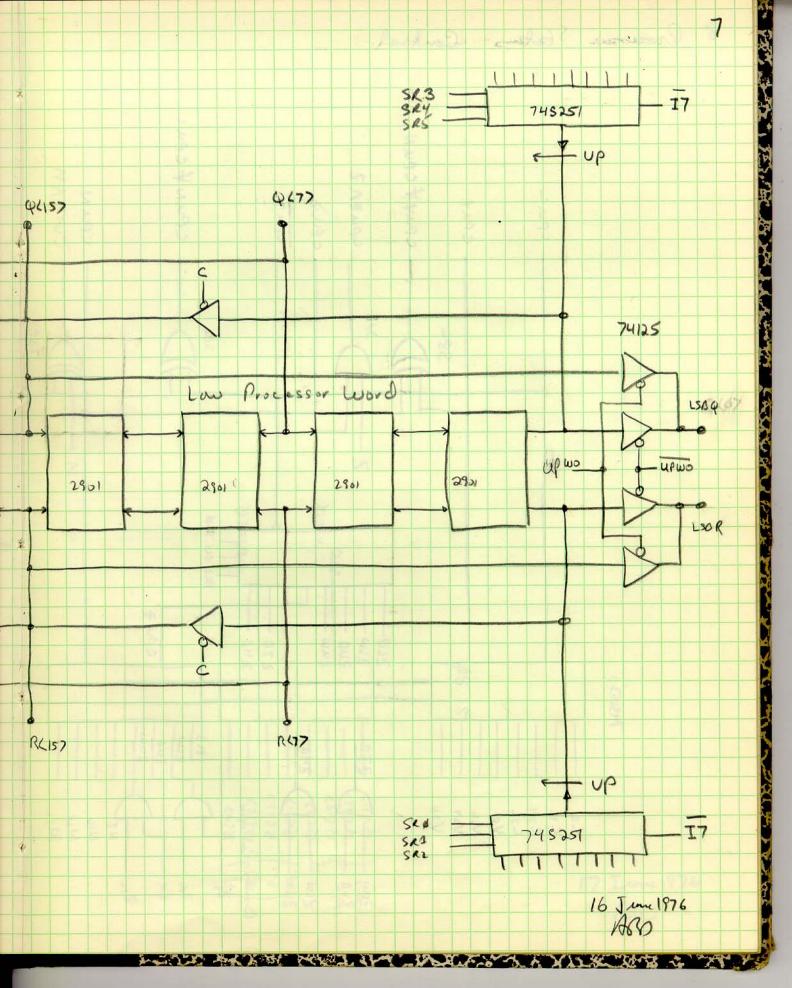


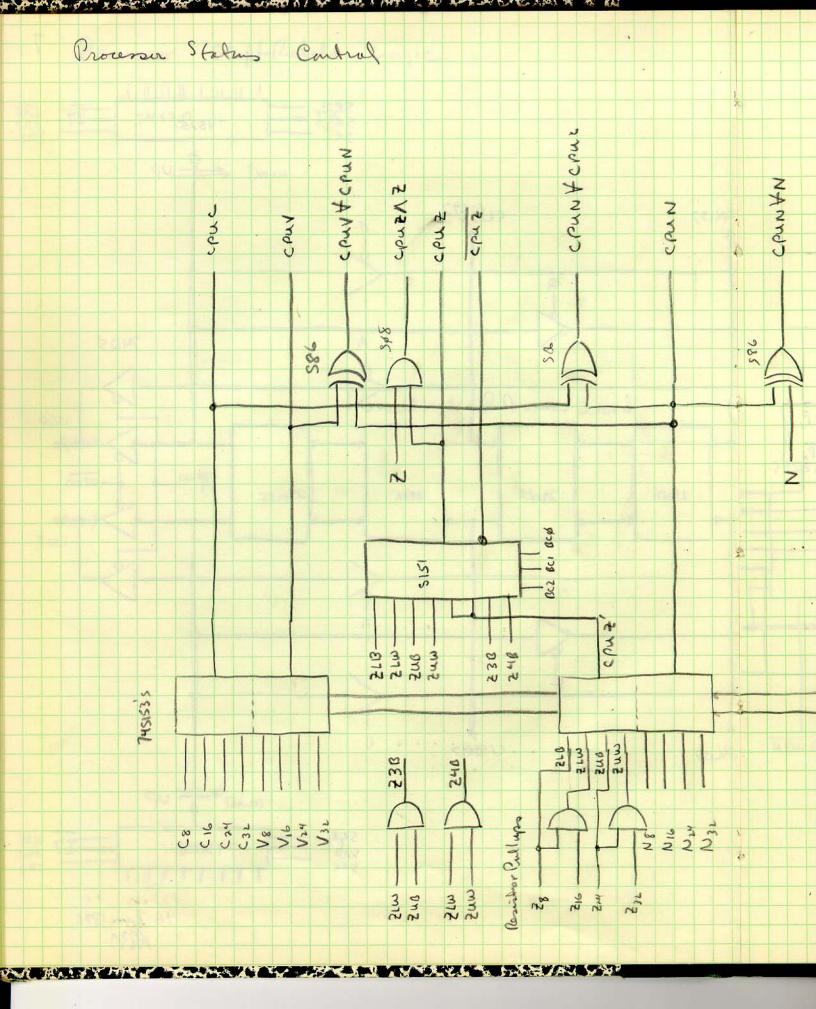
Redesign of Main Processor to 1) allow expansion of Revensor Word length from 16 to 24 n to 32 bits 2) allow two seperate internal registar sets + Areterneter logic units (maybe microprogrammed as due sperate processors - non comment execution) 3) reduce Shift Ratate microcode needs 1) allow direct 24 and 32 fit operation including multiplication + Division changes to micro code 1) Delete SR7 add BCZ 2) add arbit to ITO Bus control to explicitly in higher MM6T 3) extra I/O bit used for Program Privity clear Designate 2 Bits for Math (Special) "58 959 4) mare cru cloch Rits to 60;61 51 6) more CCP (Bit GI) to Bit 95 7/ more CB considerat to Bit 69 16 June 76 ARD A MAR MAR IN THE AND A MILE THE

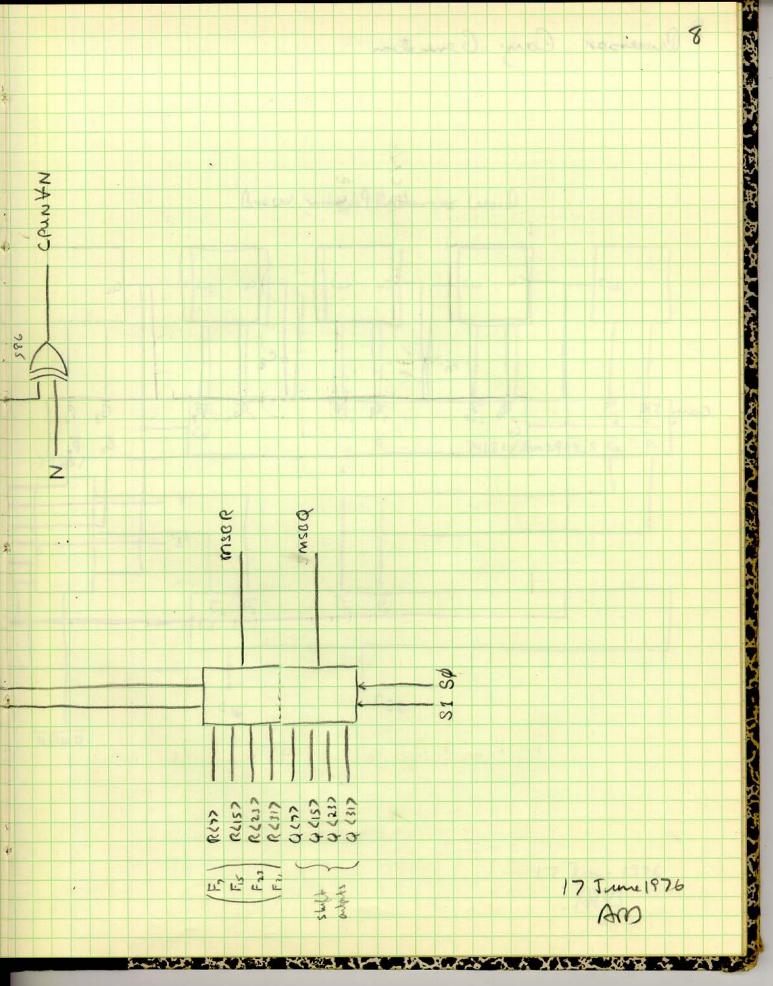
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3	A	1	4	uw (31:16>	word Operation Upper Processor Word	
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5	1	ø	1	uw/31:167/40(23:16	7 Conditional Word / Bts Upper Processon Word	
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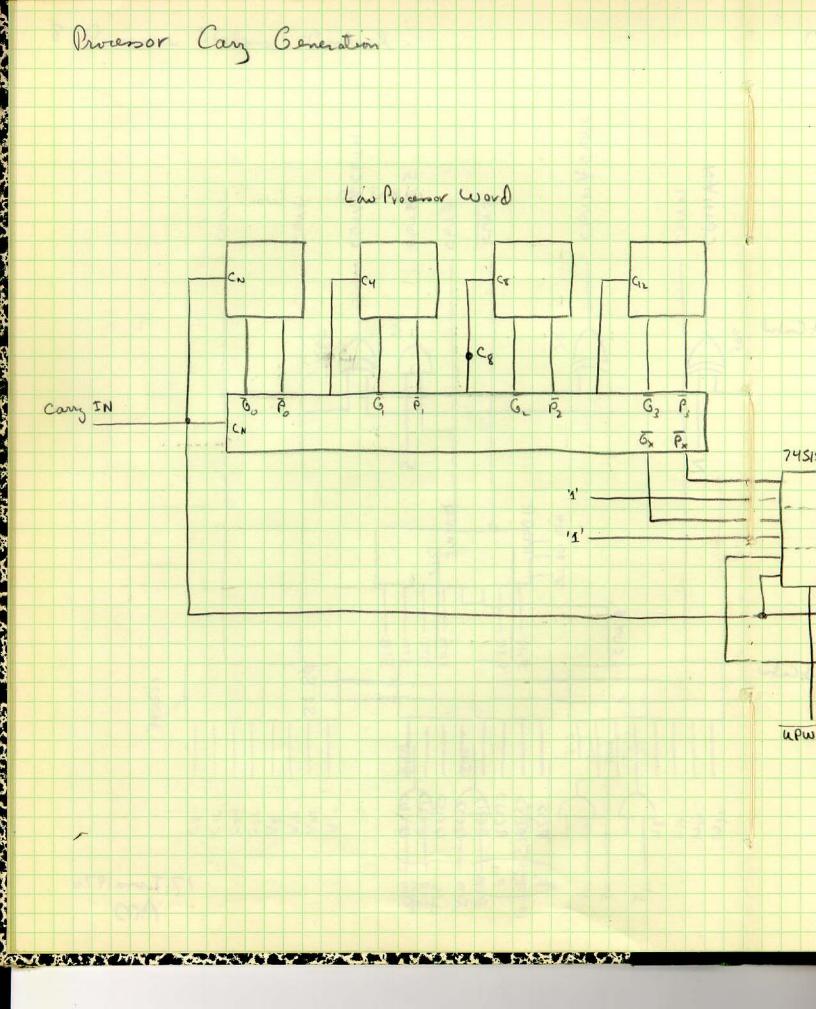
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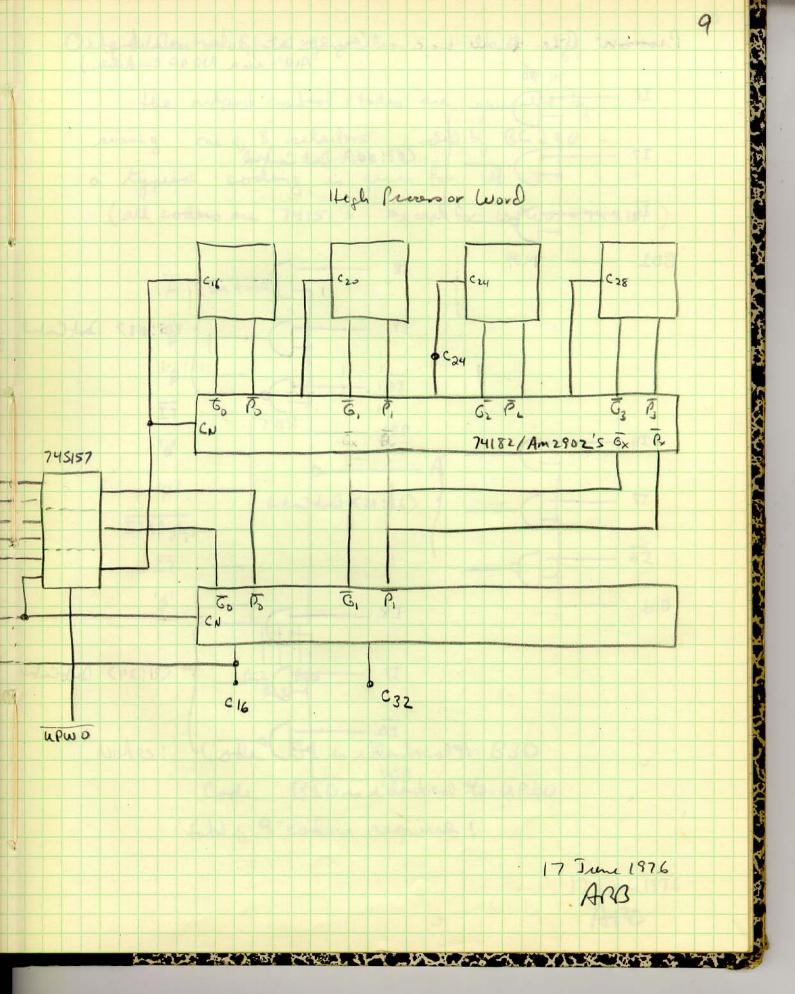


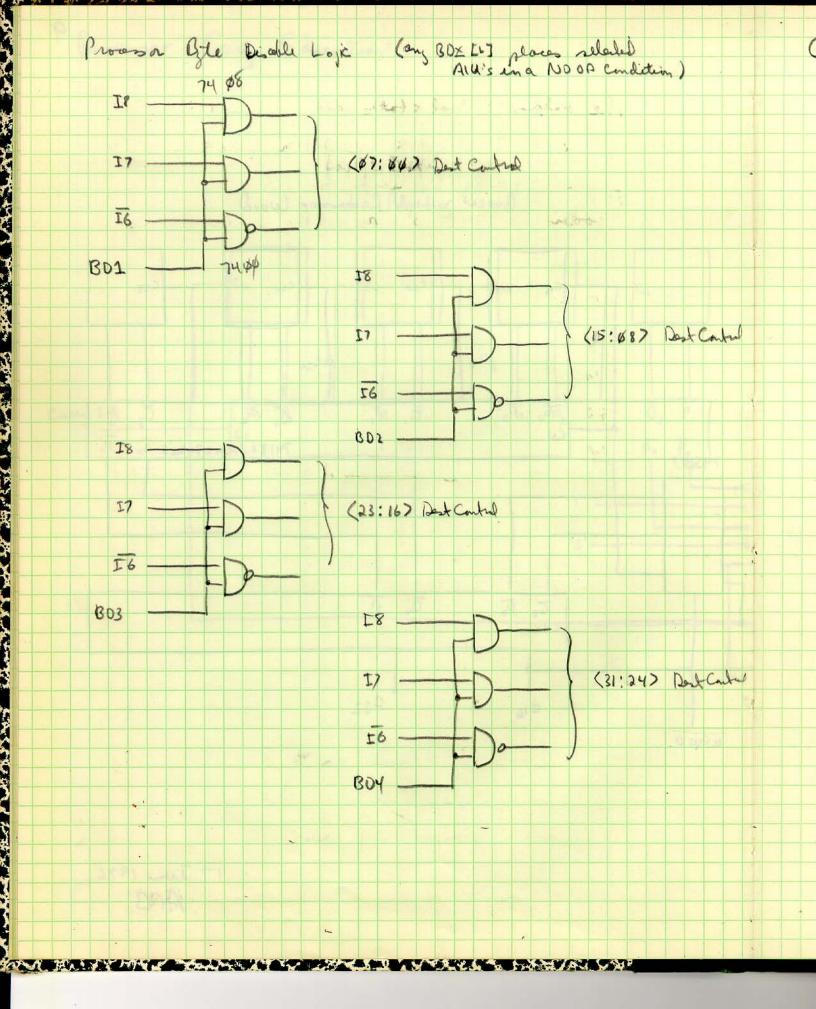


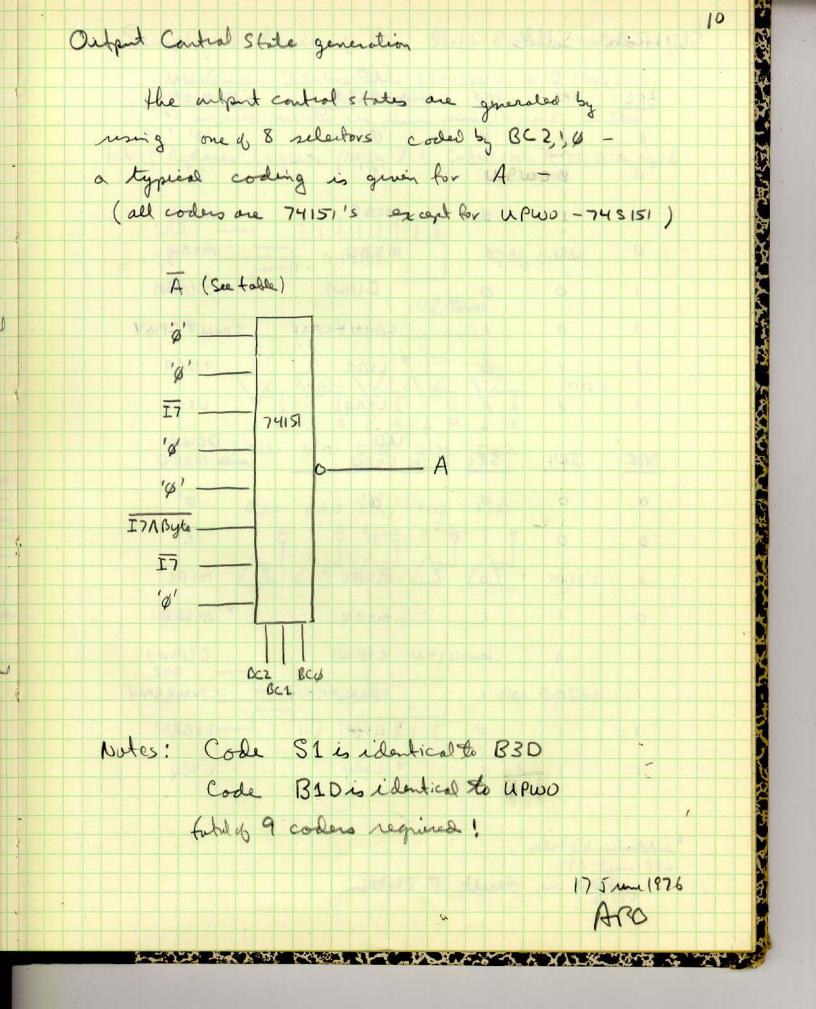




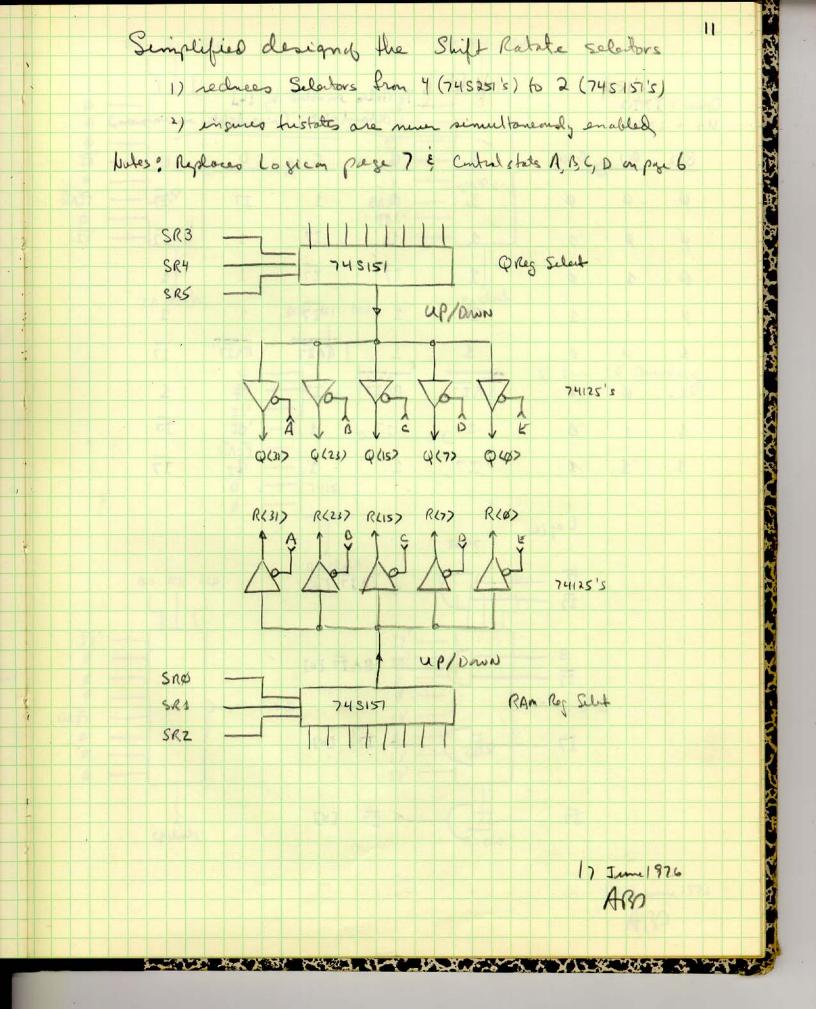


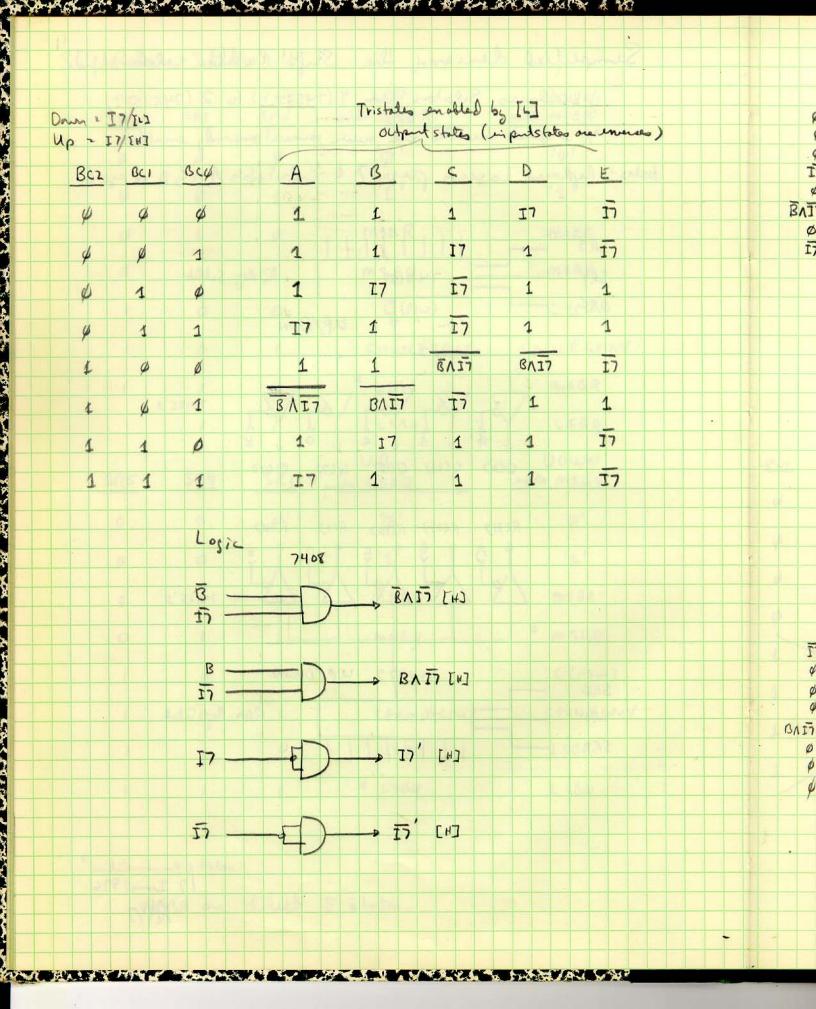


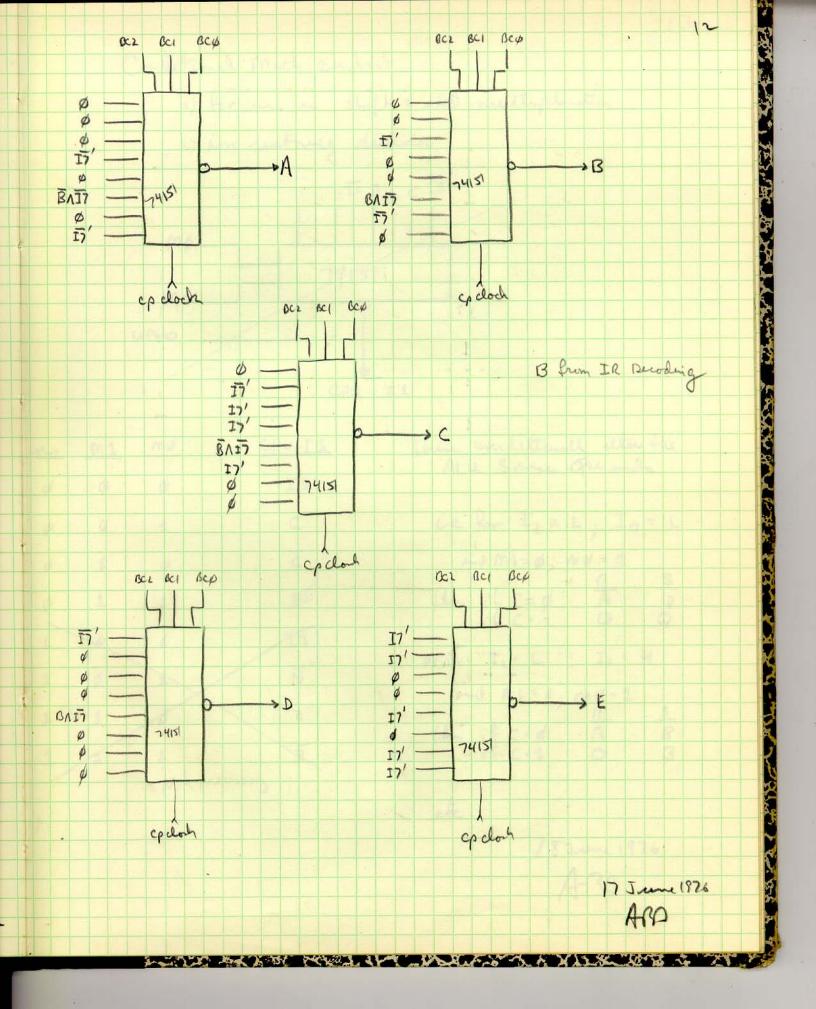


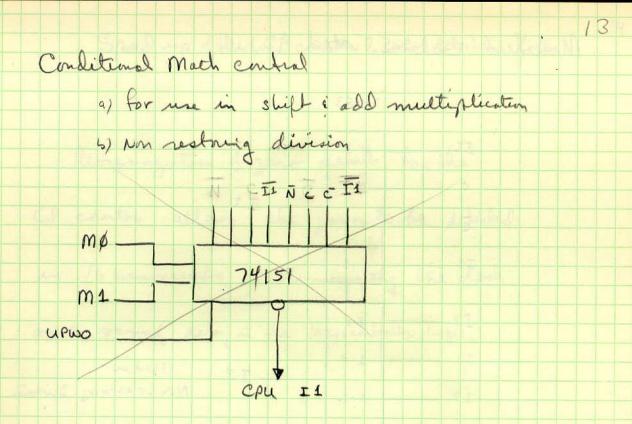


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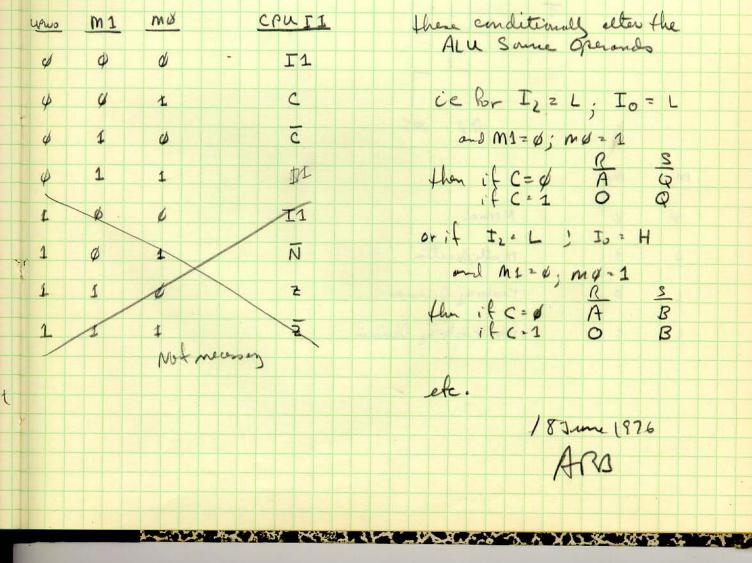




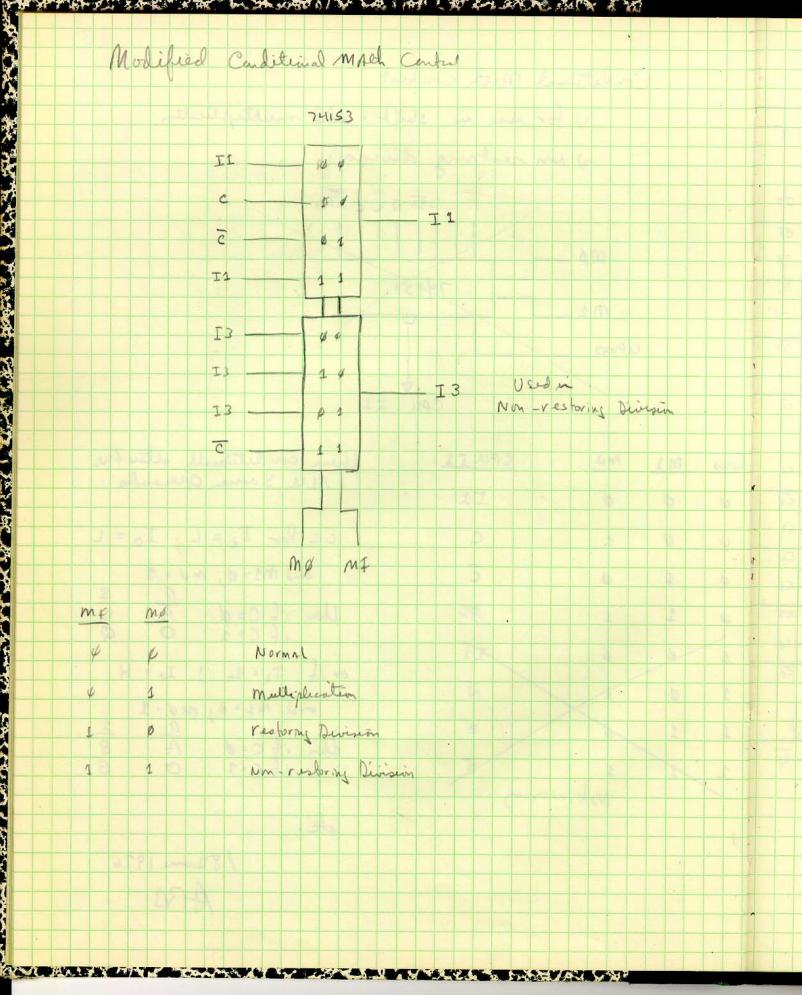




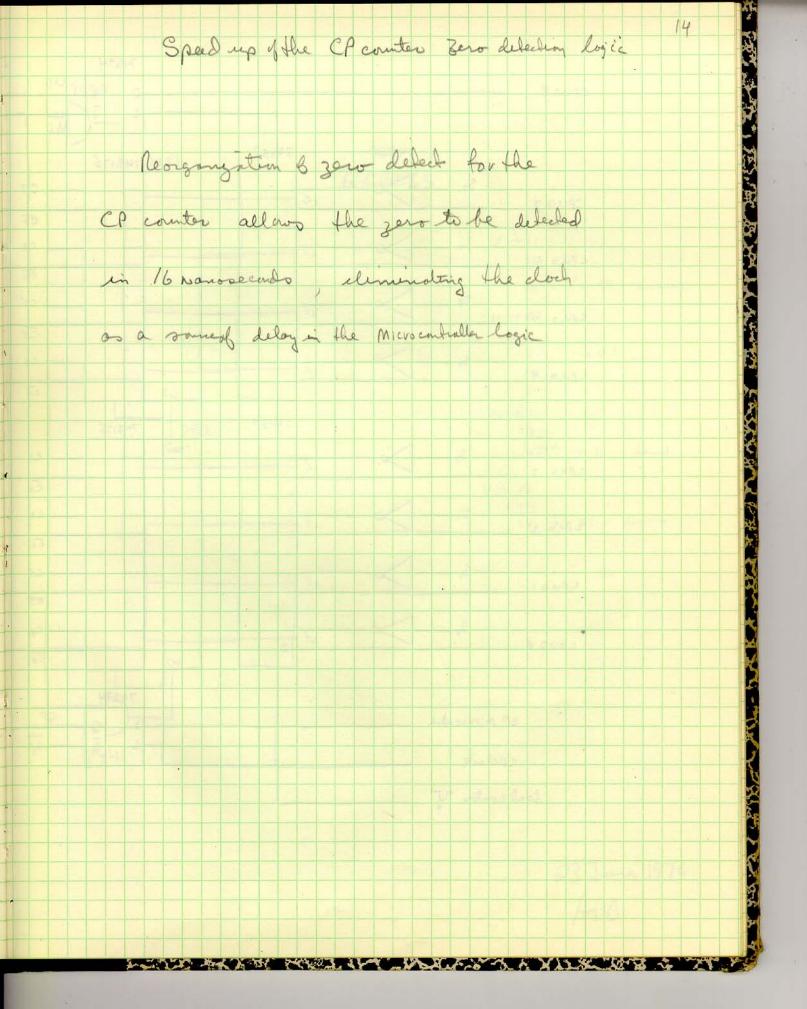
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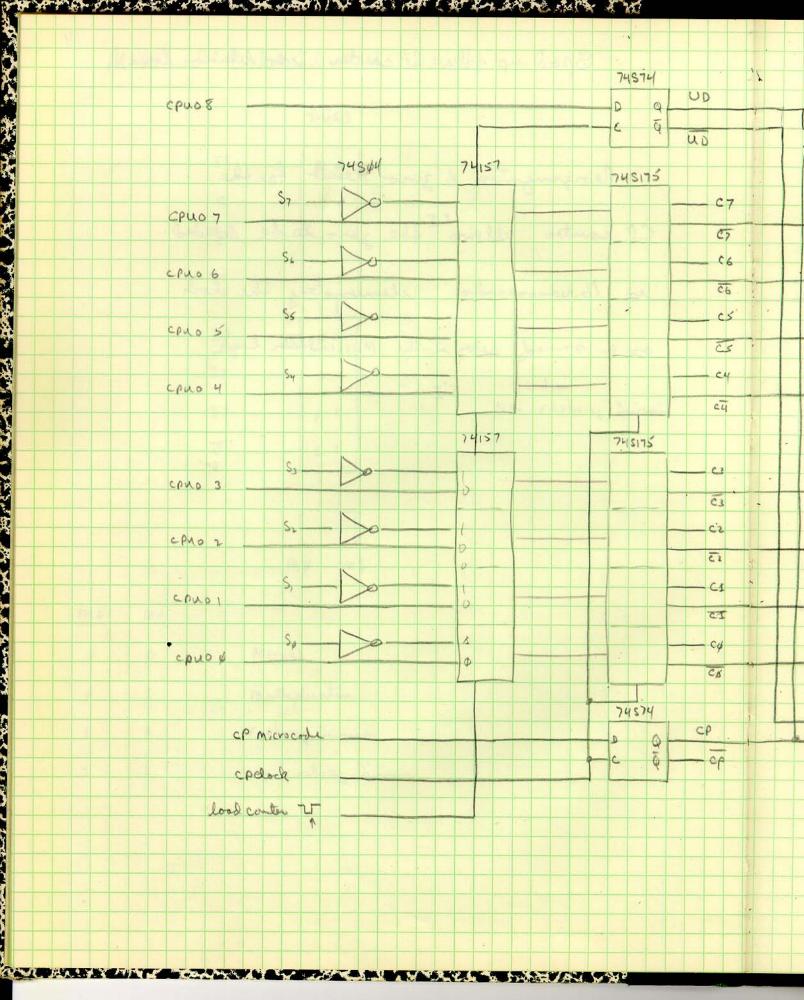


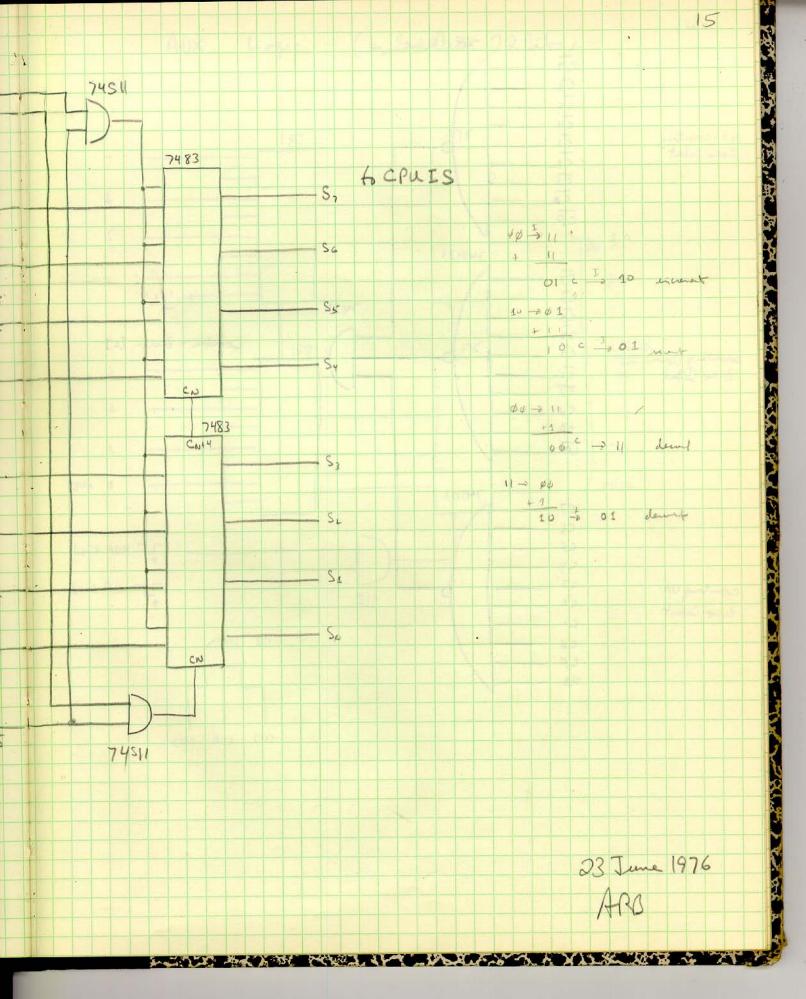
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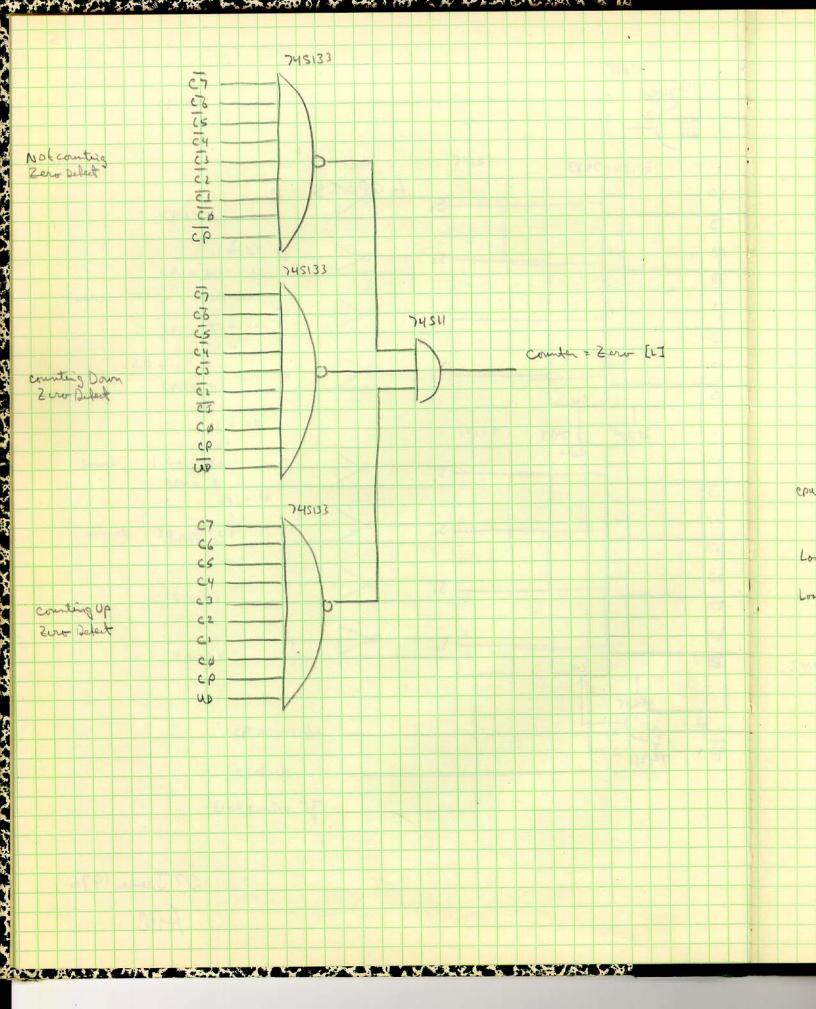
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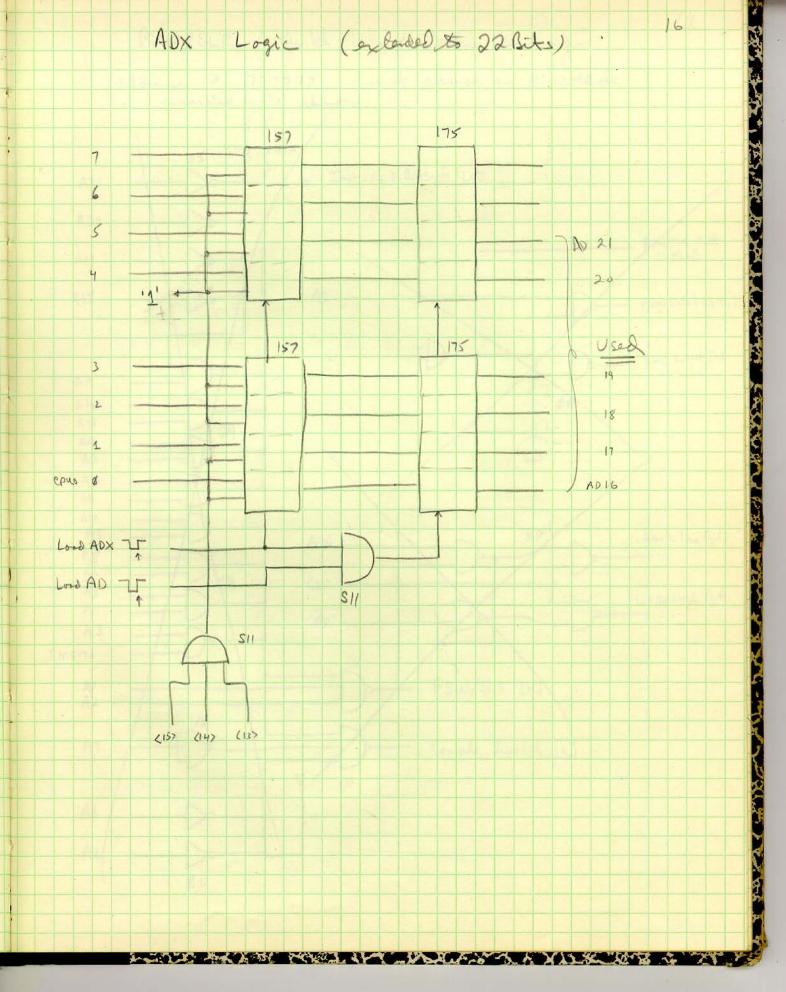
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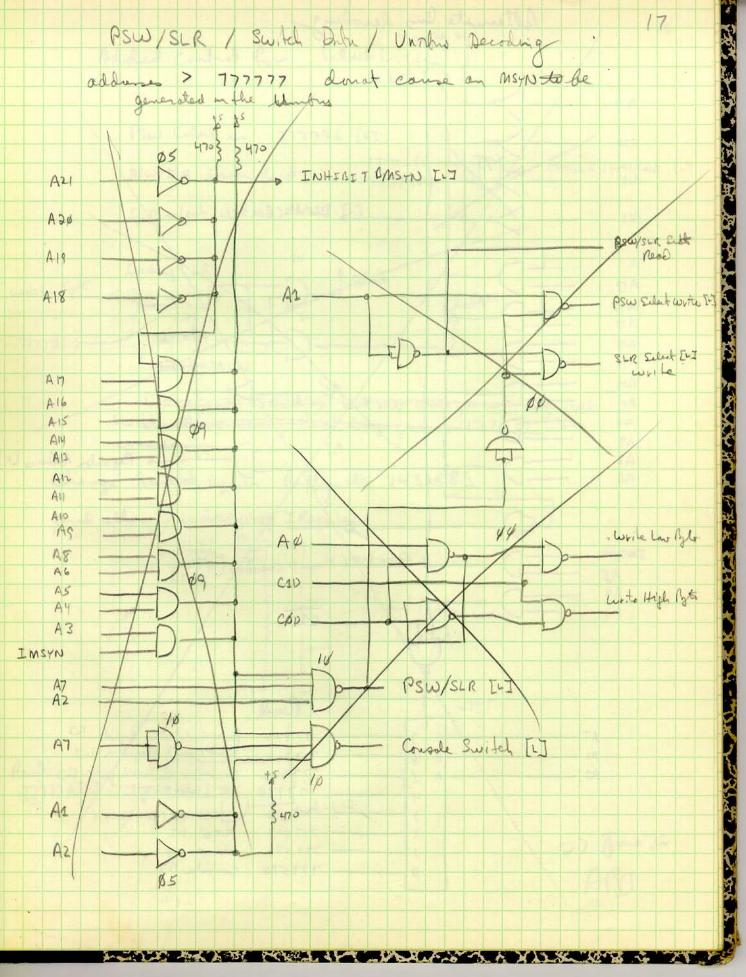
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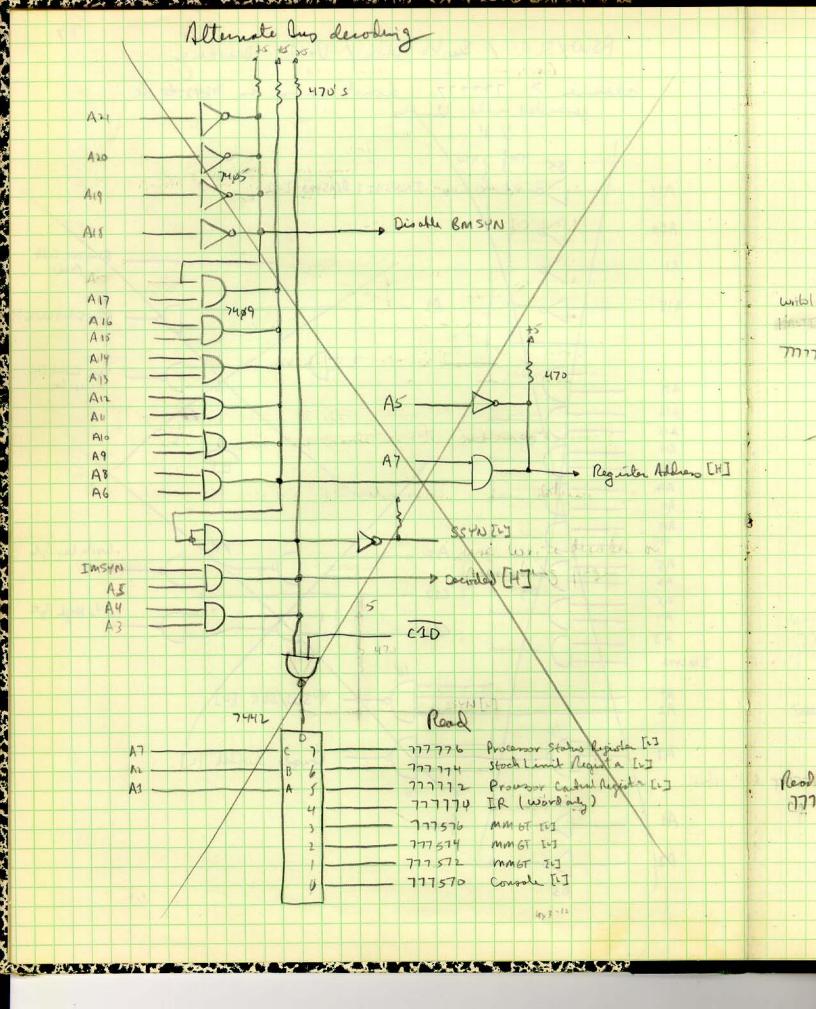


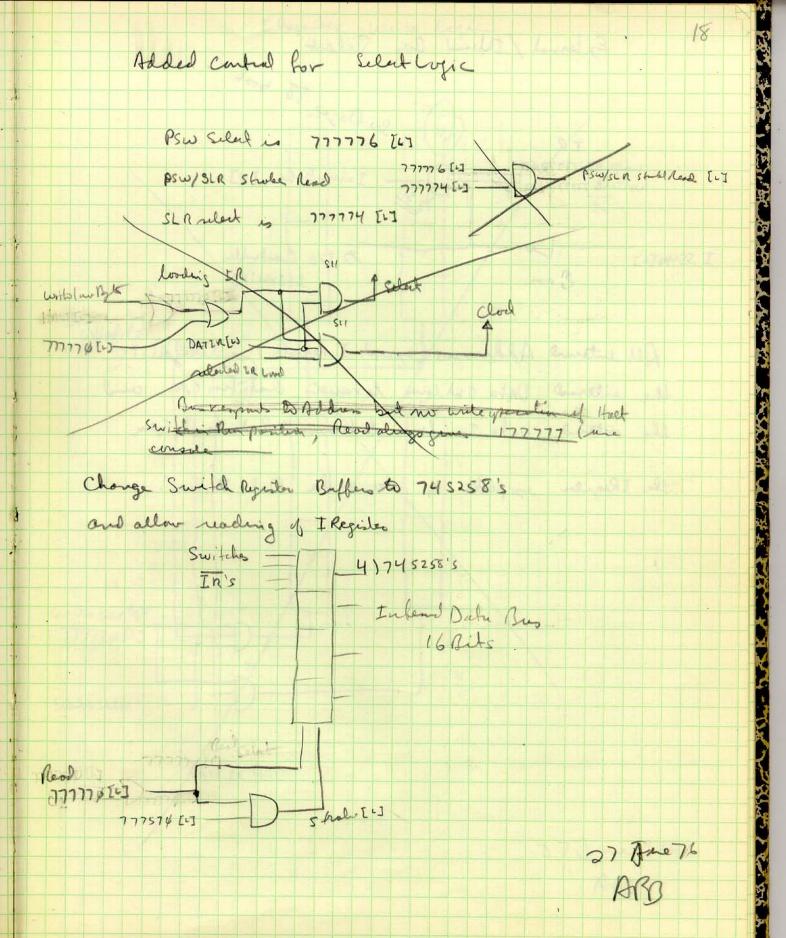




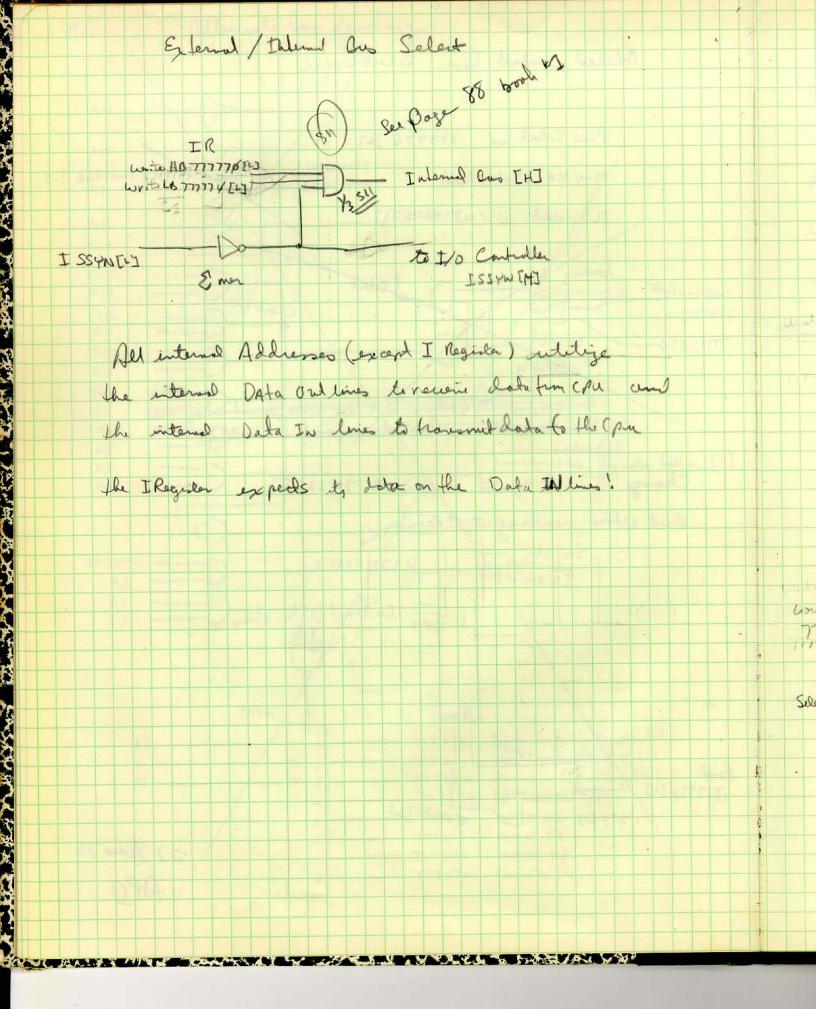


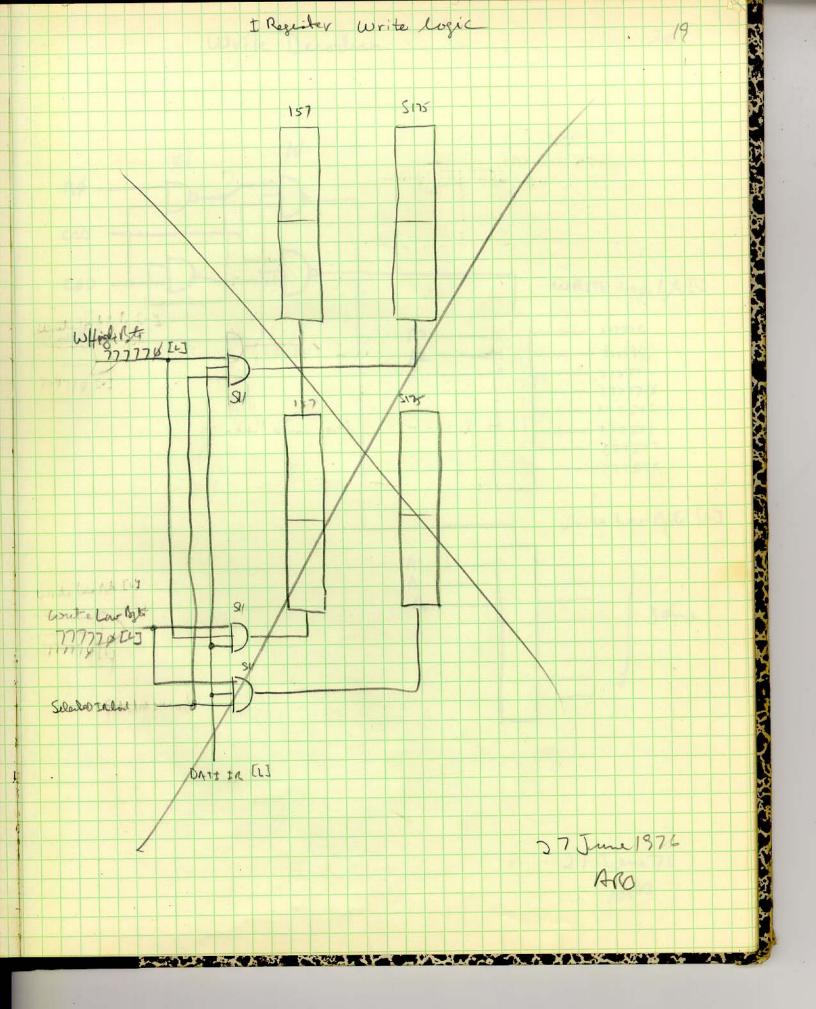


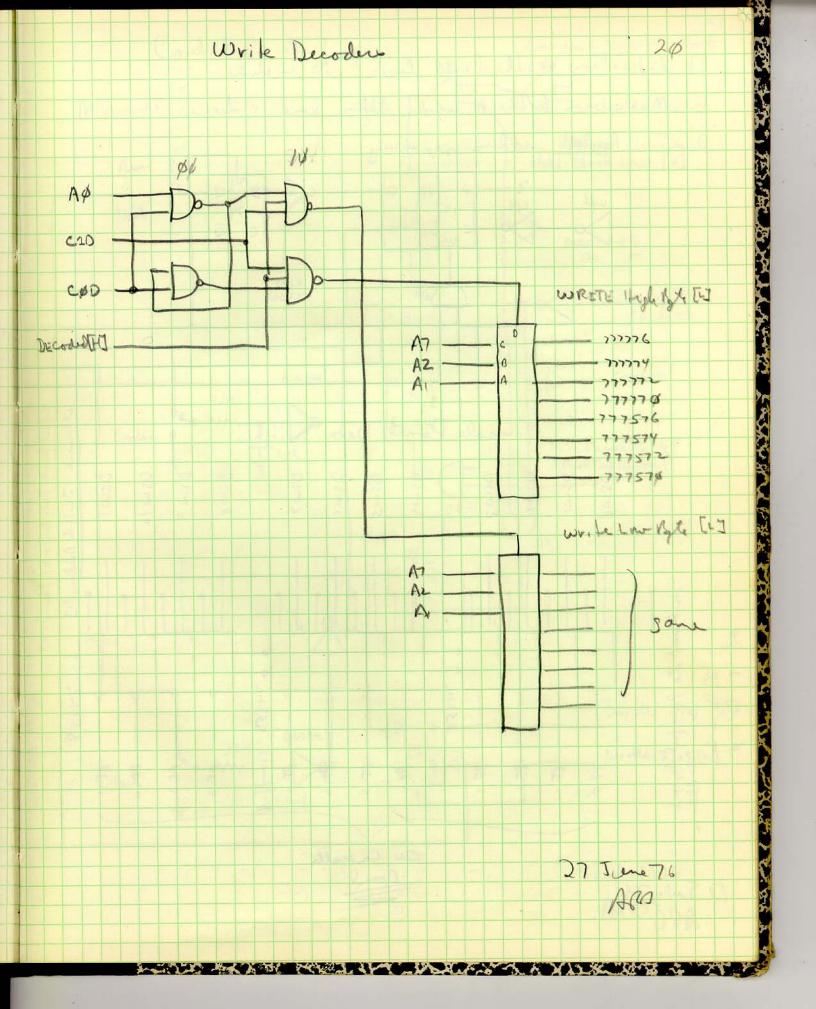


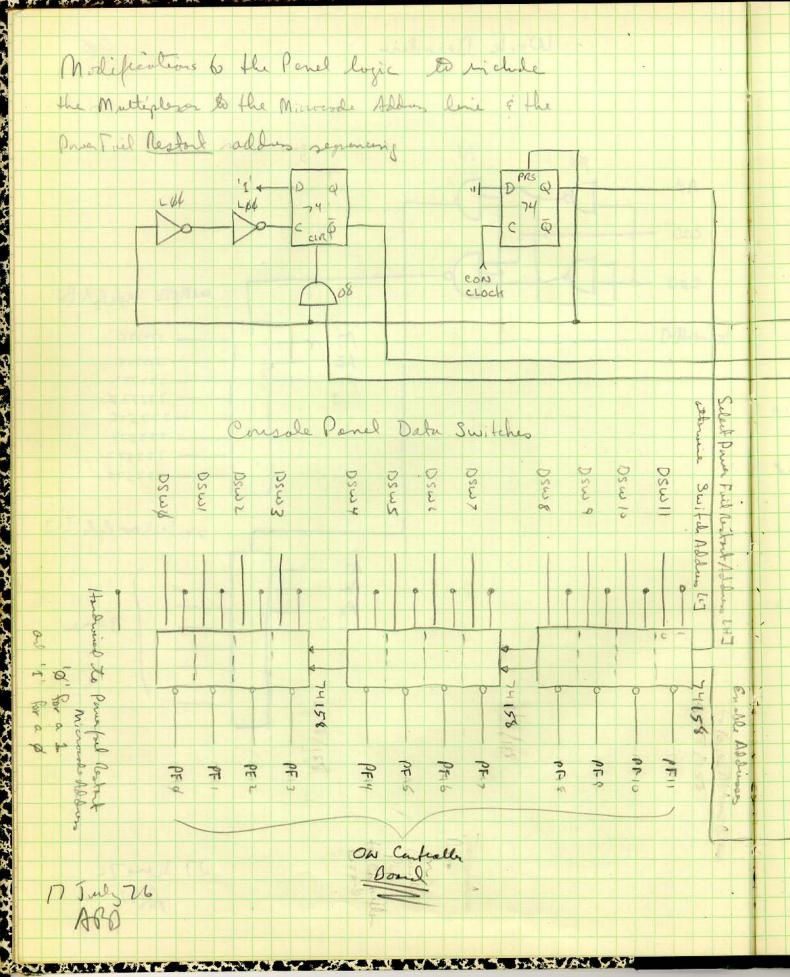


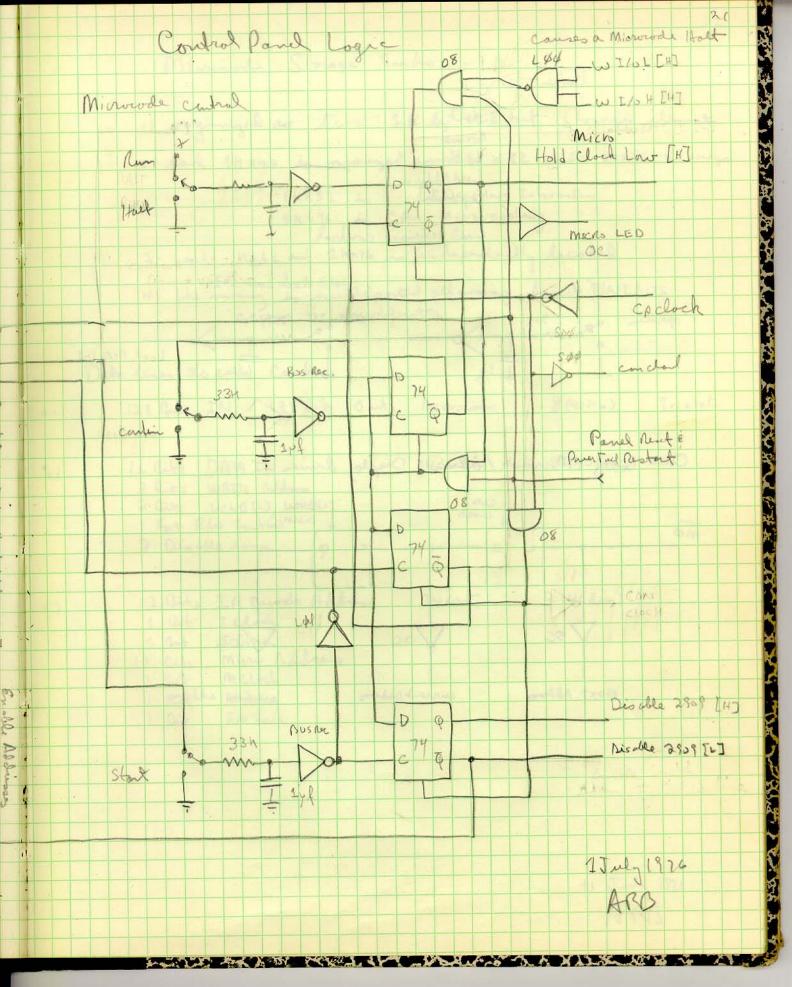
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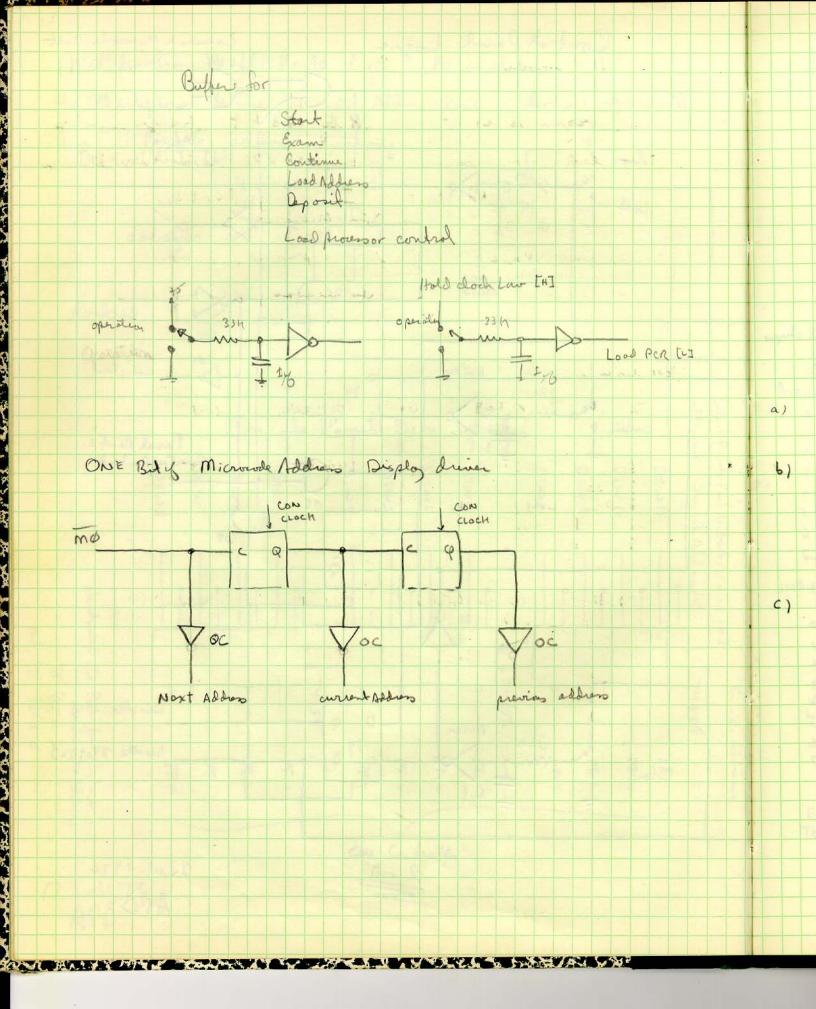












Mirocode Storage Cardo

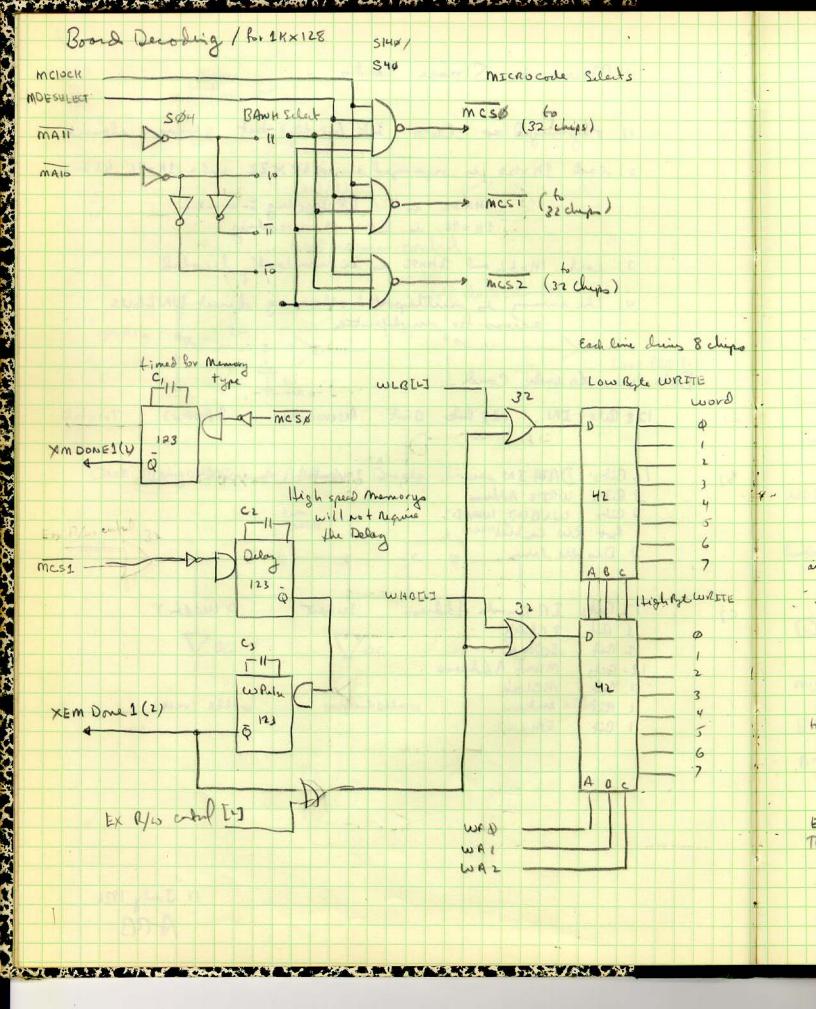
1) organized as two 2 K by 128 bit Storage clement 2) each 1H ×hz is organized as a 2K × 32 and a 1K×96 bit anays 1K×32 is IR Decoding Information 1K×96 is CPU Microcoding 3) each 1K×32 and 2K×96 is independently decoded

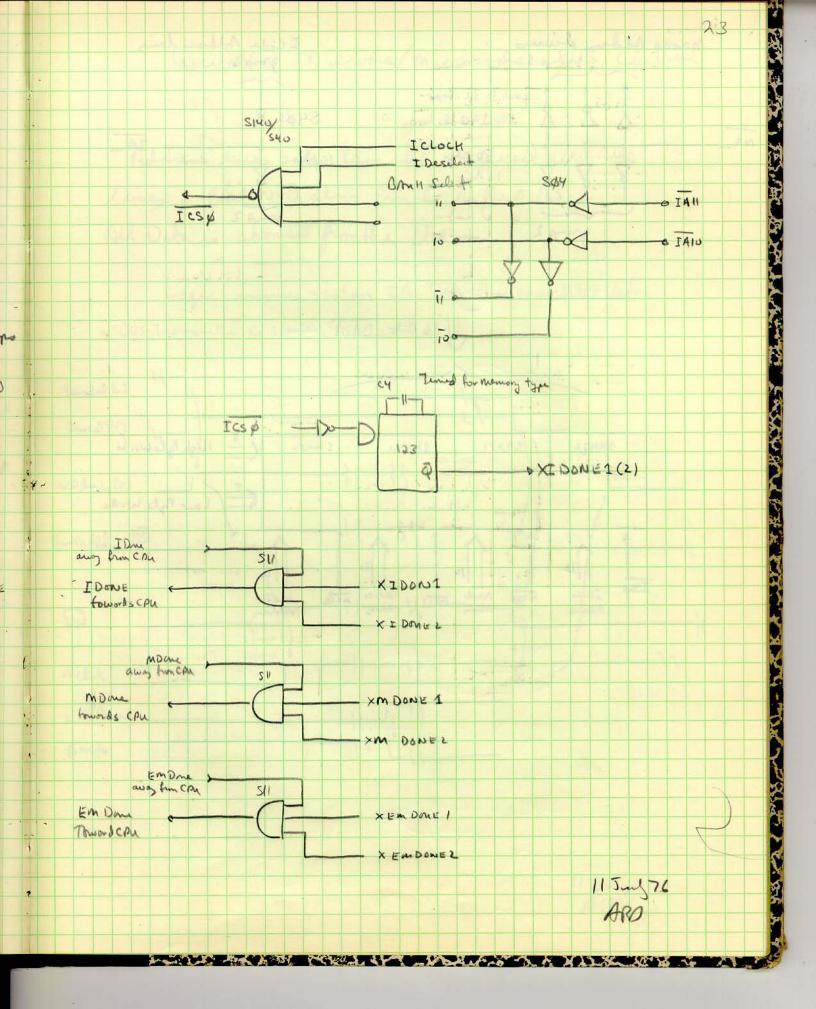
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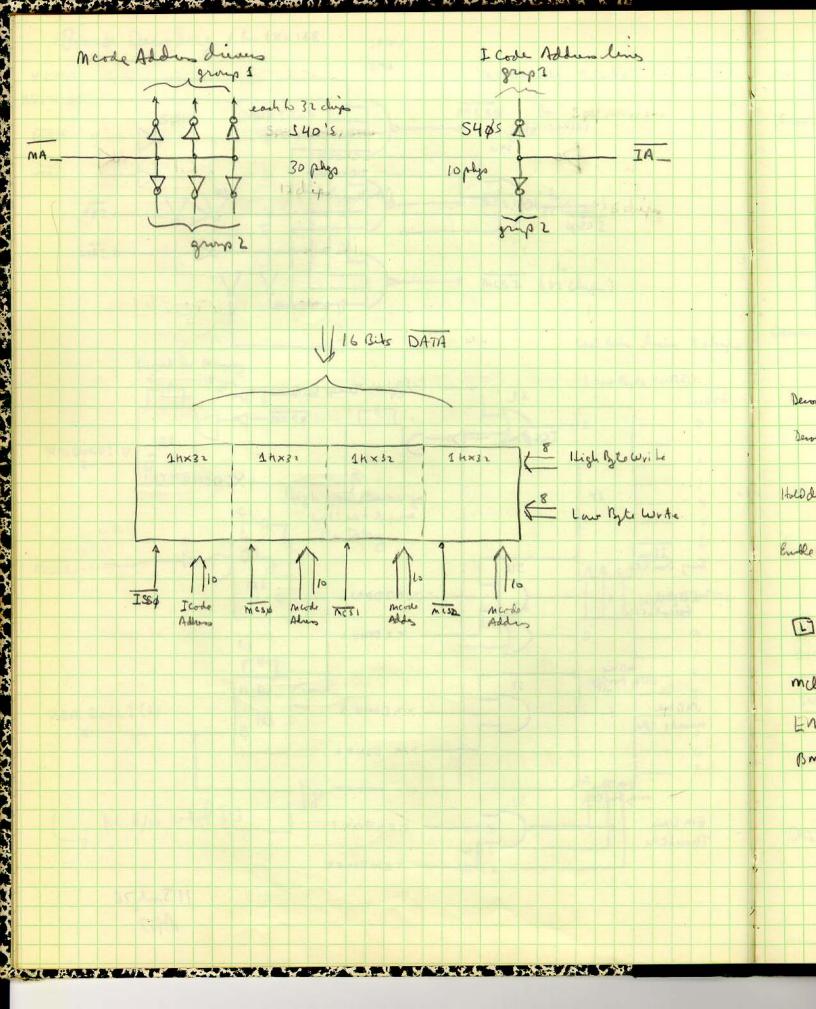
4) the memory is multiported allowing direct UNIBUS access for modification

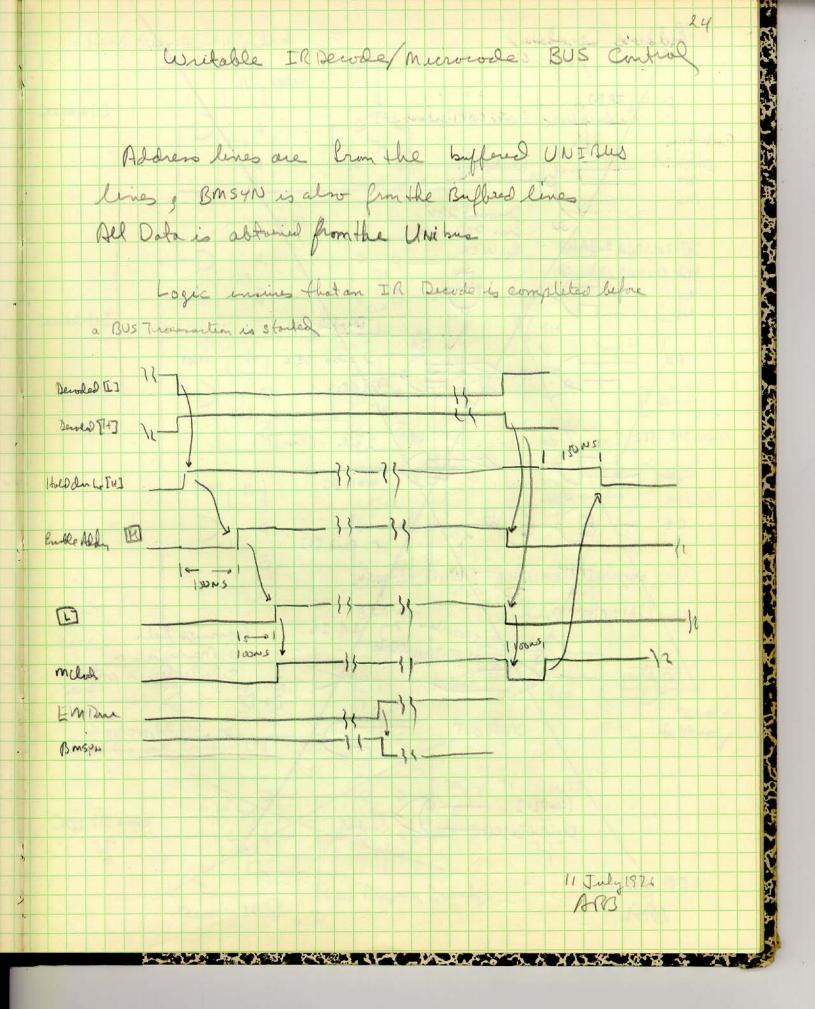
Data lines to each cand

Contract of		A A REAL TOTAL	-
i)	128 Rits IN / 128 Diks Out	Microcode 8(40 pix) Tristate	
		U 13-160 A K	
		IN/out 2 (40 pin)	
)	16 Bits DATA IN	IN/out 2 (40 pm)	-
	3 Rits WRITE Address		
	2 Gits WLB(L7, WHELET		
	1 Ext Rhu Cantin		
	2 Disable lins		6
1000			
-			
)	12 Bits IR Decode Address	IN/out 2 (40 kin)	-
	1 Ret I clock		-
-	2 Rit I Done		
	12 Acts Micro Address		
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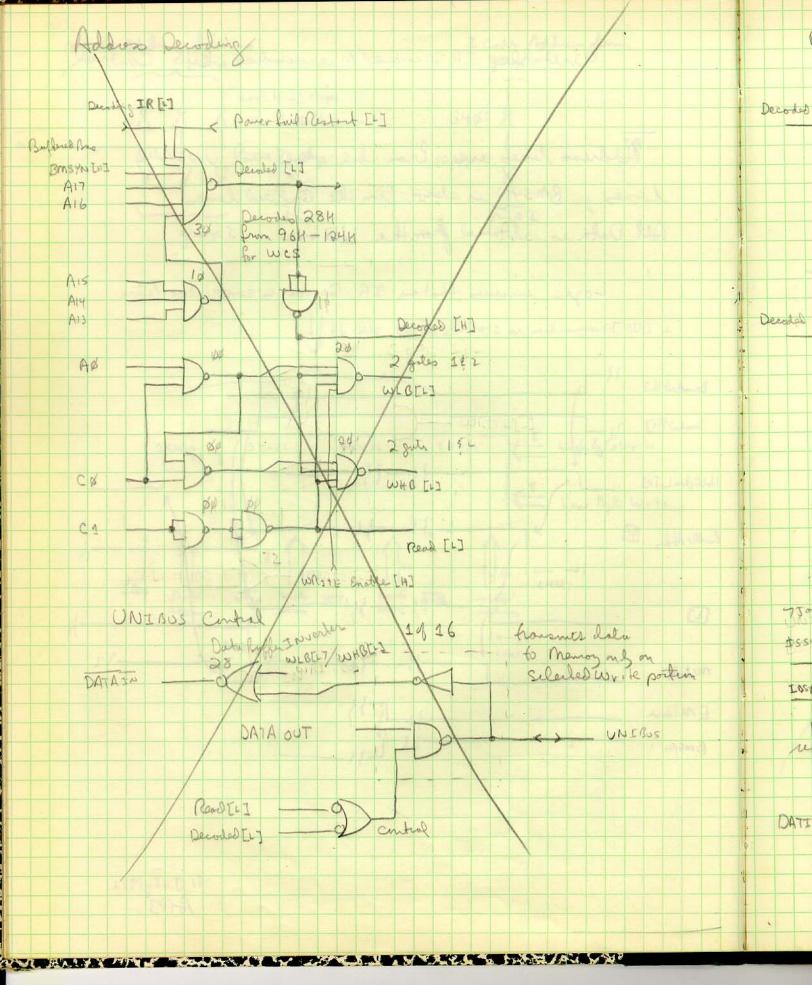


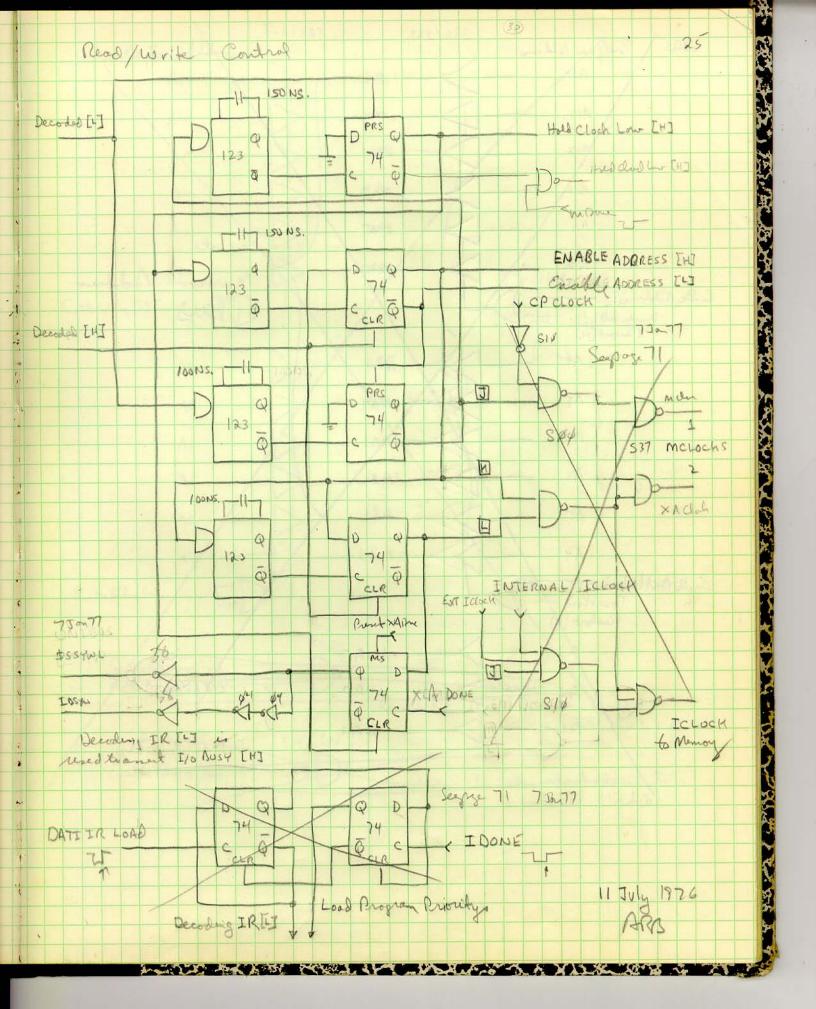


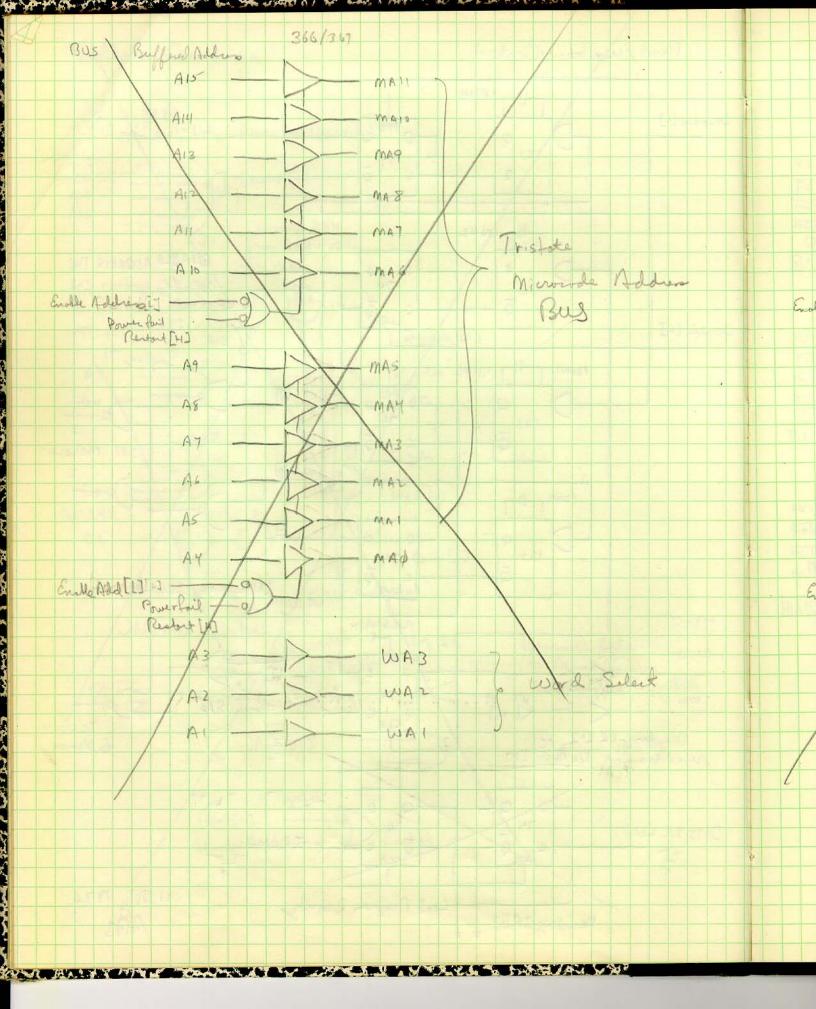


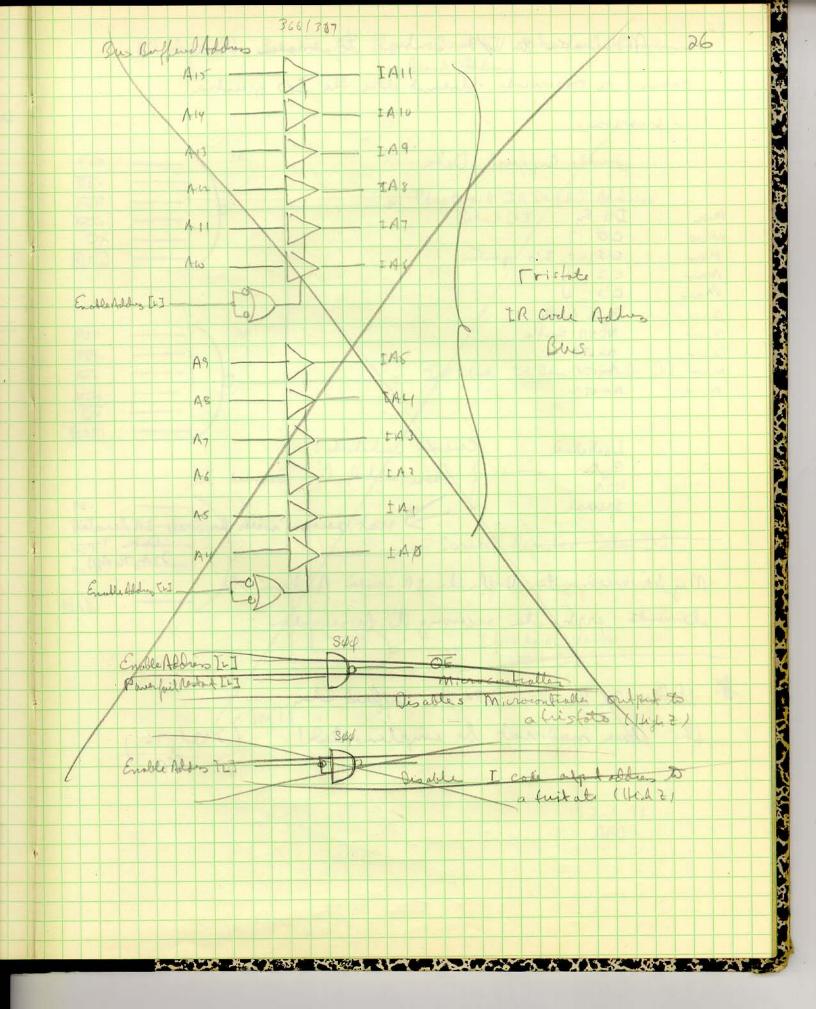




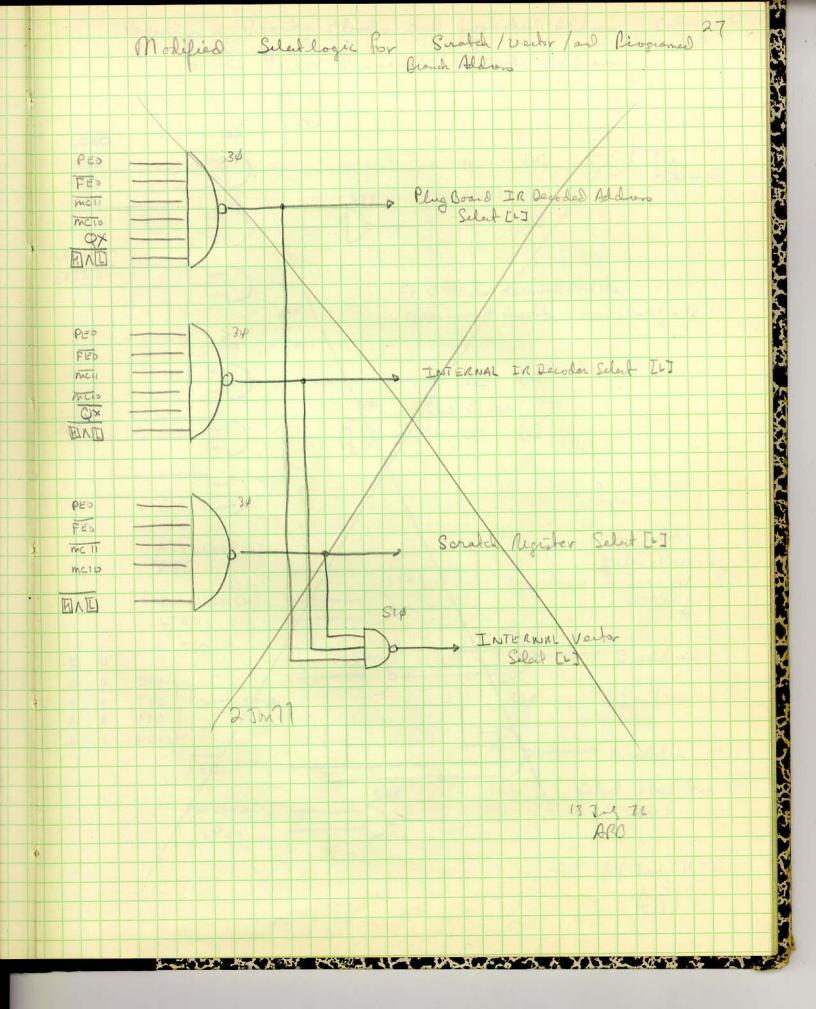


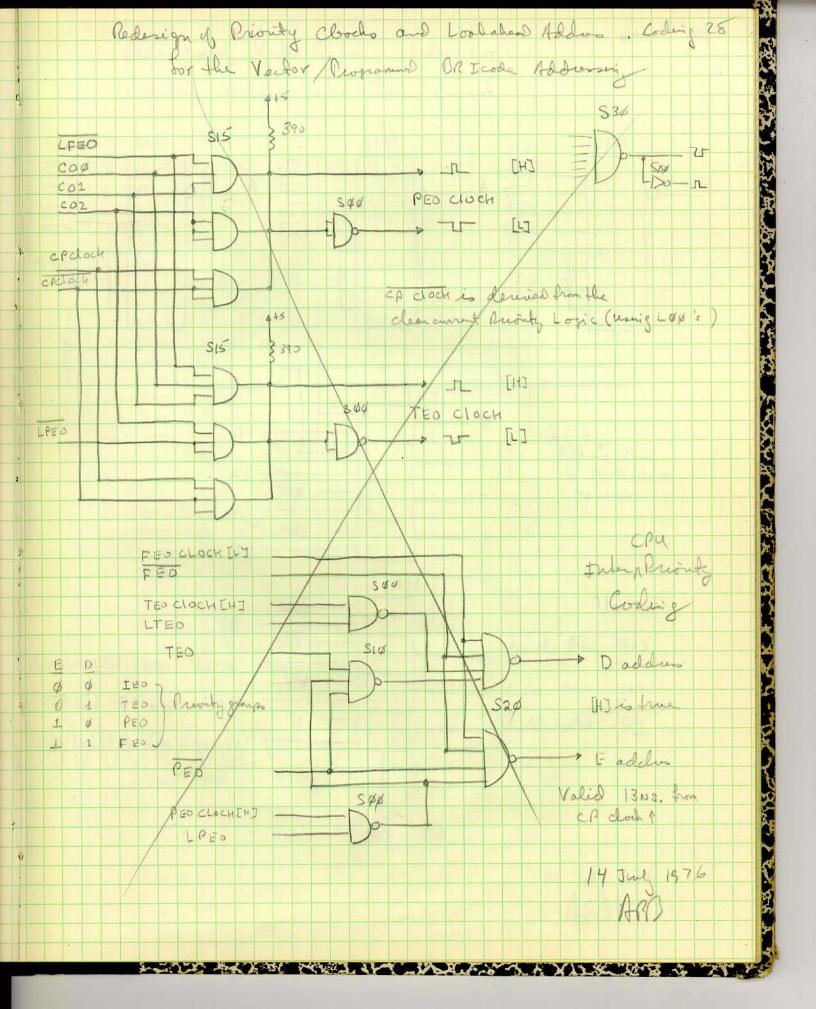


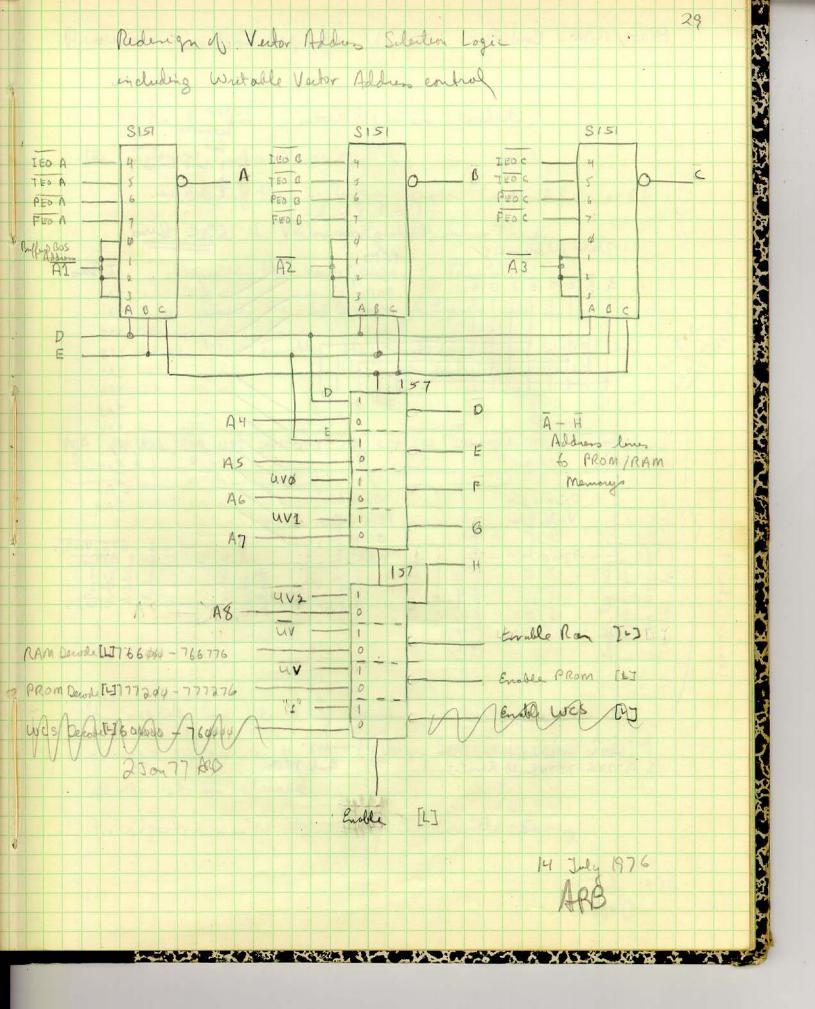


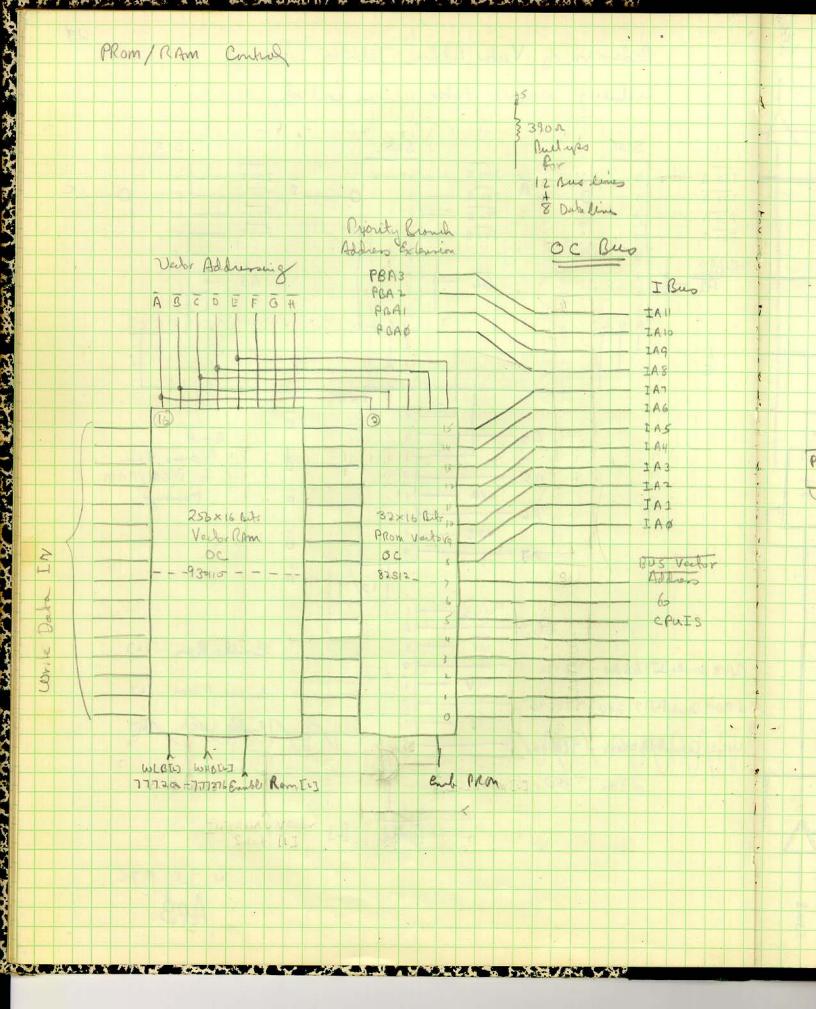


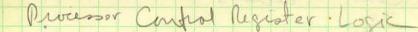
Modelfisten to I/O Contral to insure that an acress to microcode doesnot alter the I/O operation in progress. PE Double suffered Data FE ma I/o En mai Minu q CQ Micio RA 2/0 opriation C 1 Mary C 2 Mour Mircry. C 3 Bute Enable PEO NDSP Enable micro FE MM 6TO mono mai MM ST / micro mine mmati mil Q EIVE Confined Loshaheado! Loohahead I these added from Decoded IR Byte NDA PED I not recens with Ruffered IR decoded Special FED Dute ! mc 1 272 76 AM mci May be nevery to Buffe the IR Decoded Addies to ELLE elemente errors when according the Microcode It If the I'l Decoded Data is Baffered then the above need not be implemented! (24Jul, 76) APO) When shaded a for the standard and the second and the second second second second second second second second s

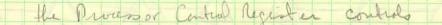












the Internal Processor operation by

a) selecting the Instruction Decoder (interned PDP-1 or St.)

6) selects the Vector group for Peressor Traps

c) specifies the Vector Addres & tresing

a) specifies the IR Decoder Extering Address

e) Write enables the writeble value Stre (WVS) and the wy table Contral Store (WCS)

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Real during a system reset, PBA3 & PBA2 . TRA3: IRAL an set

all other bits are cleared

the register my les loaded from the consols dividly

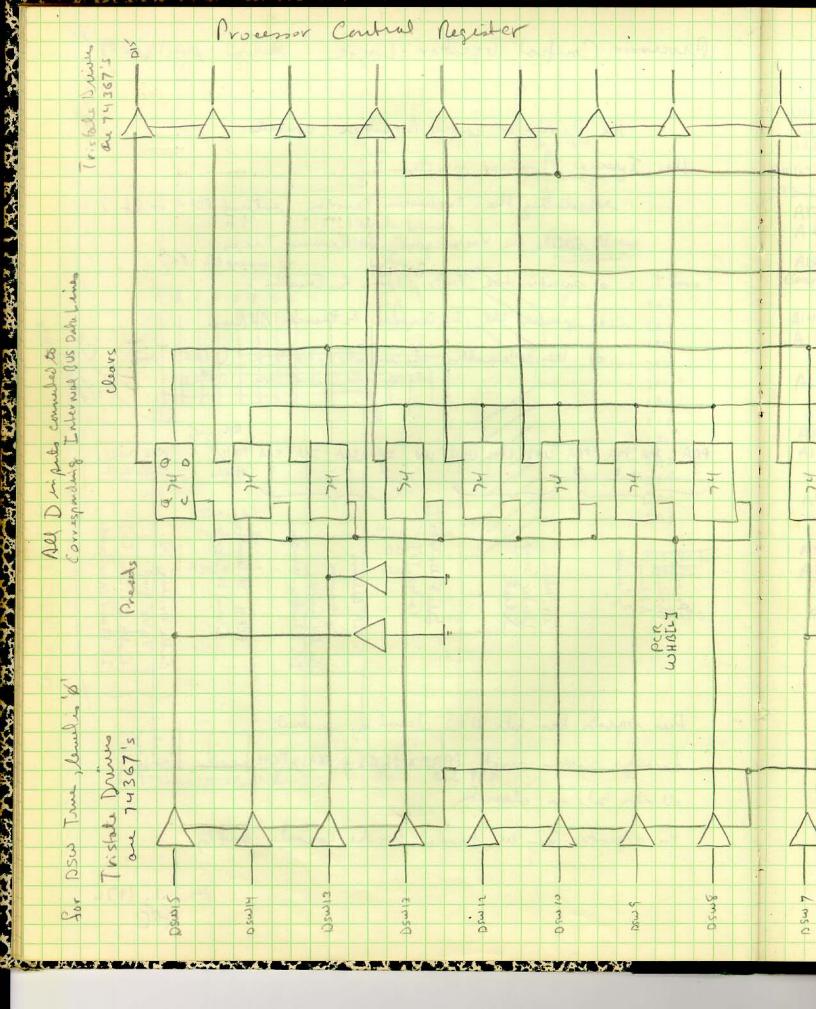
14 July 1976 ARB

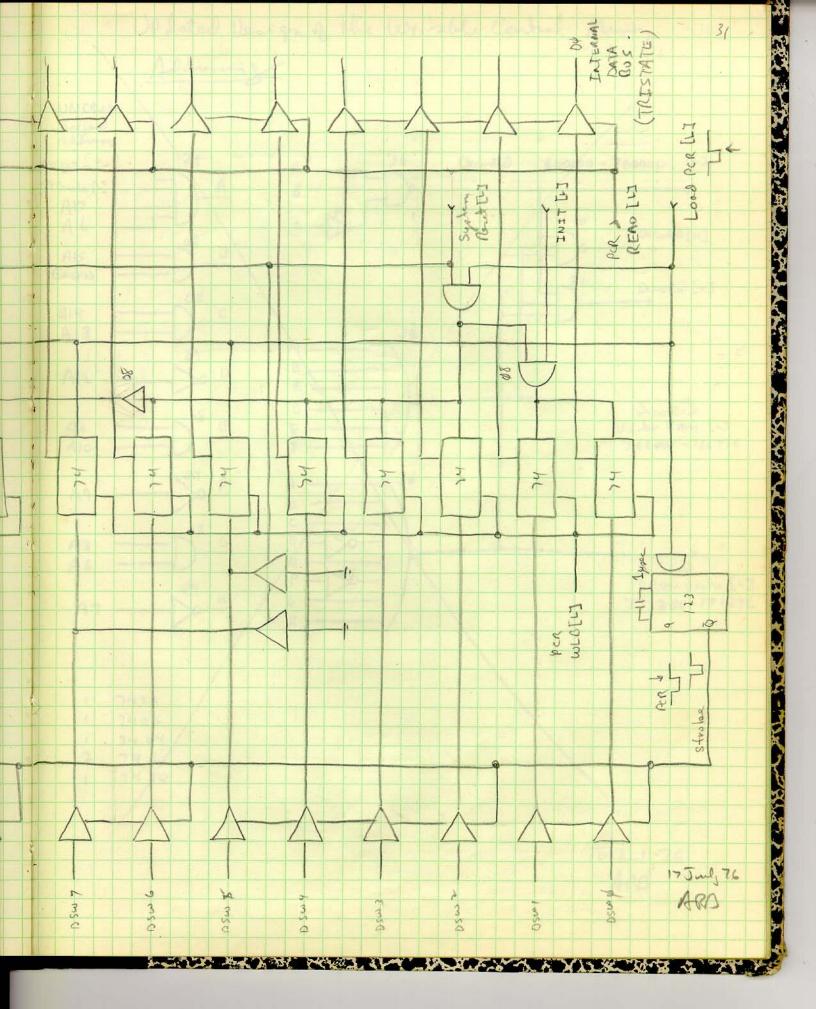
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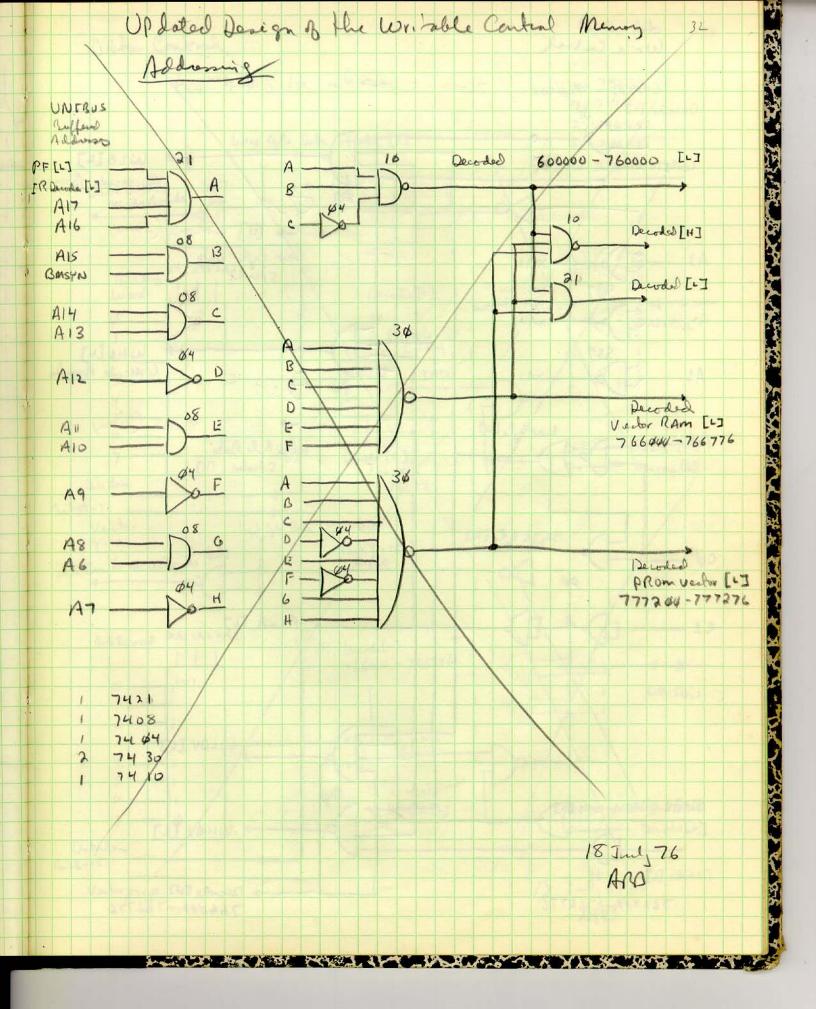
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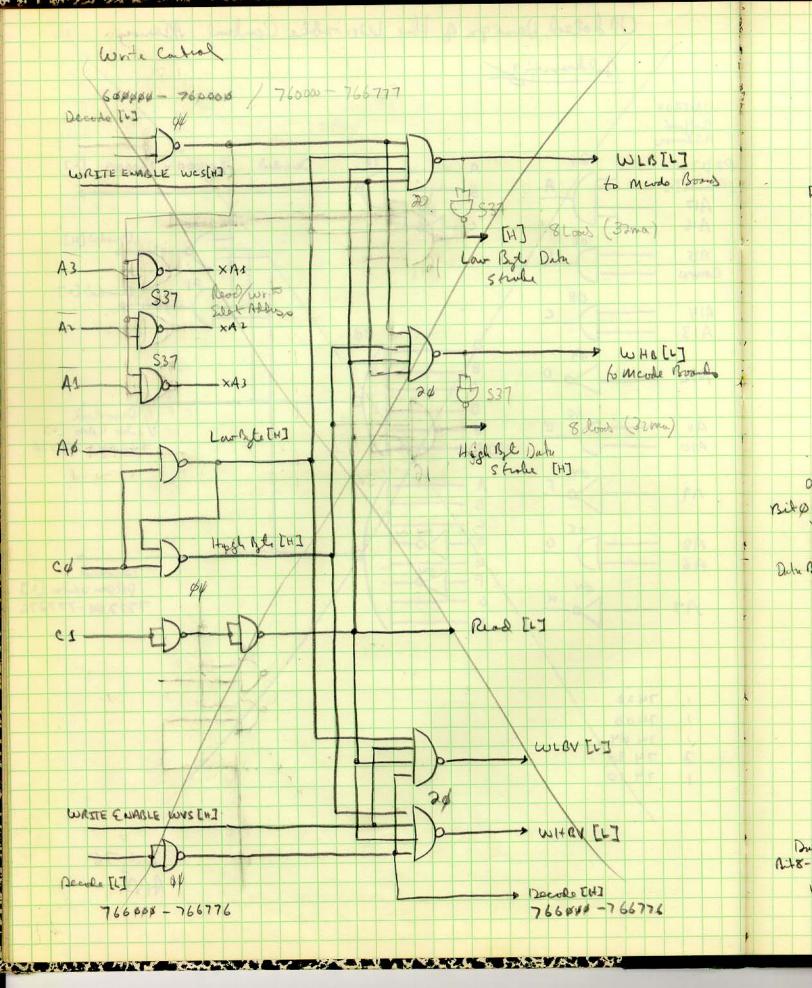
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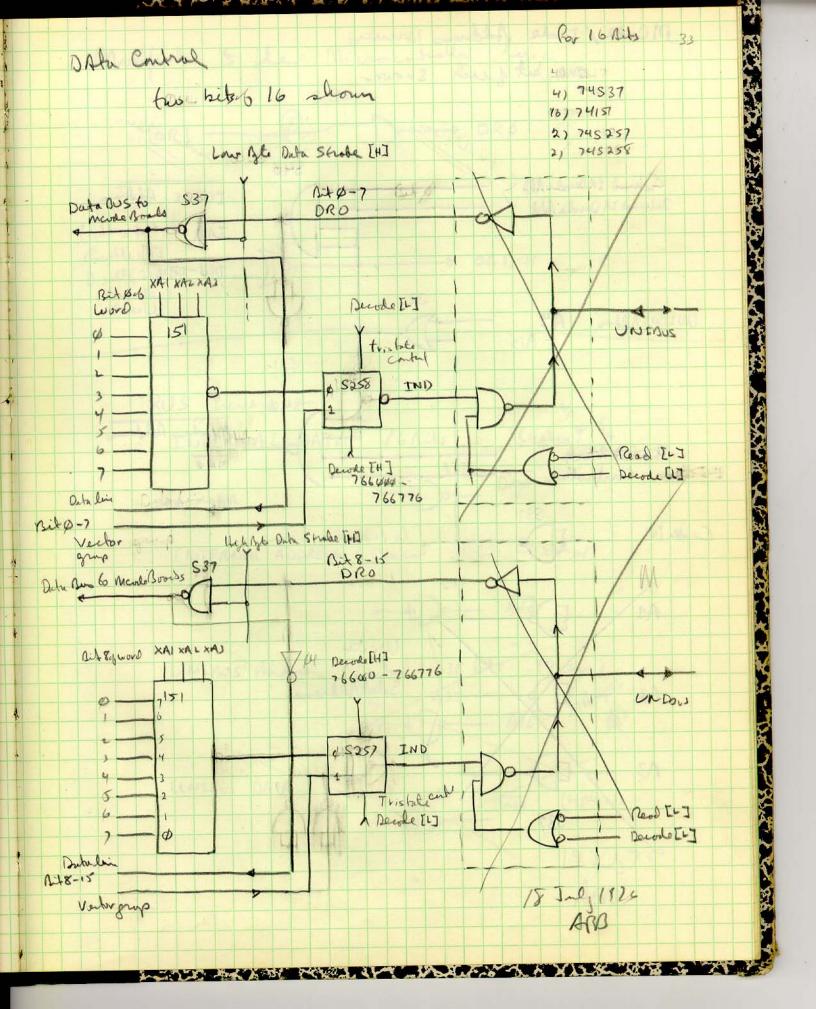


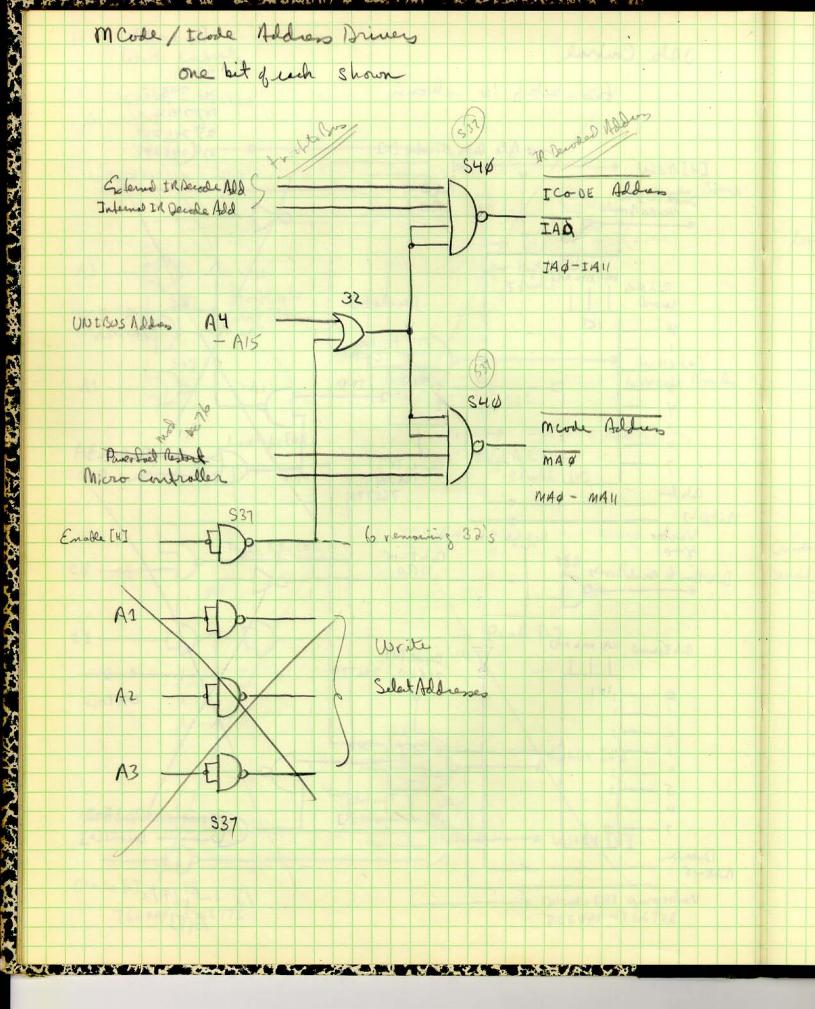


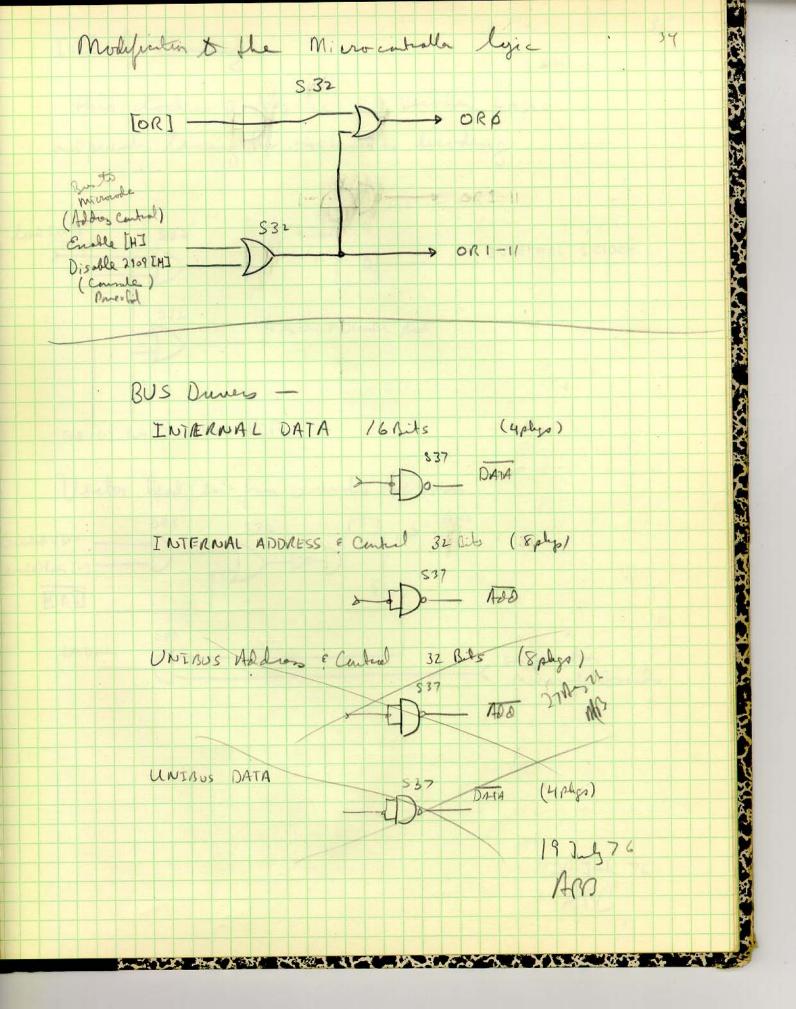


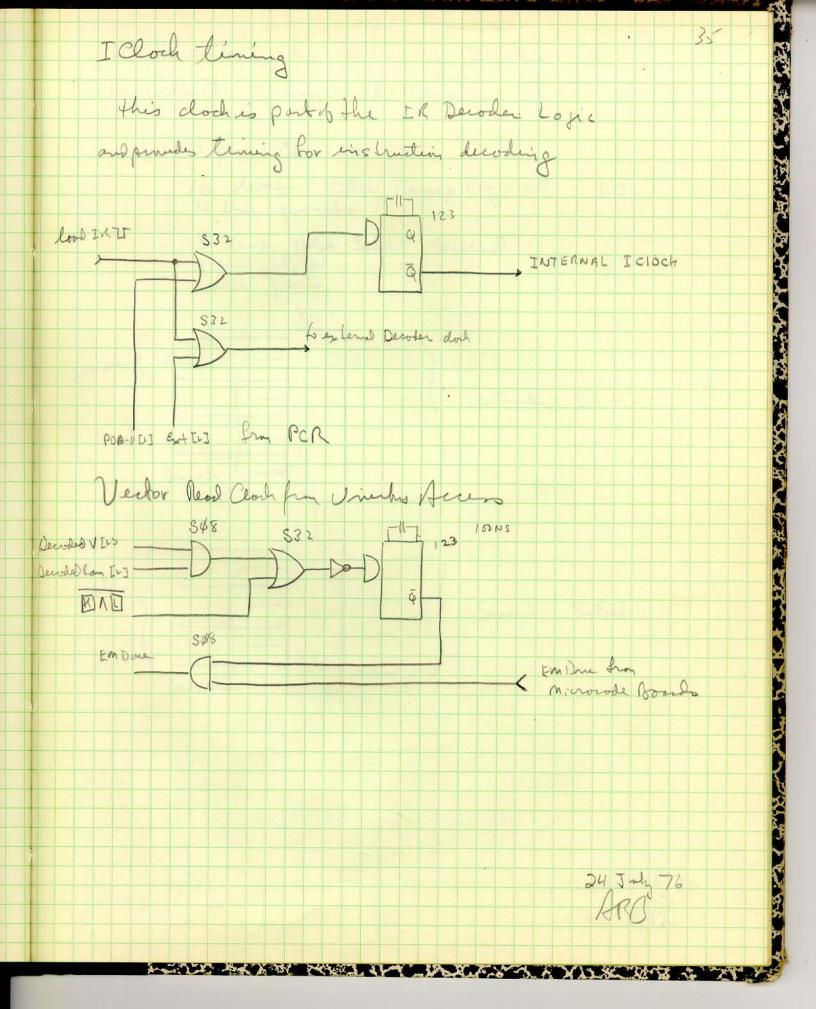


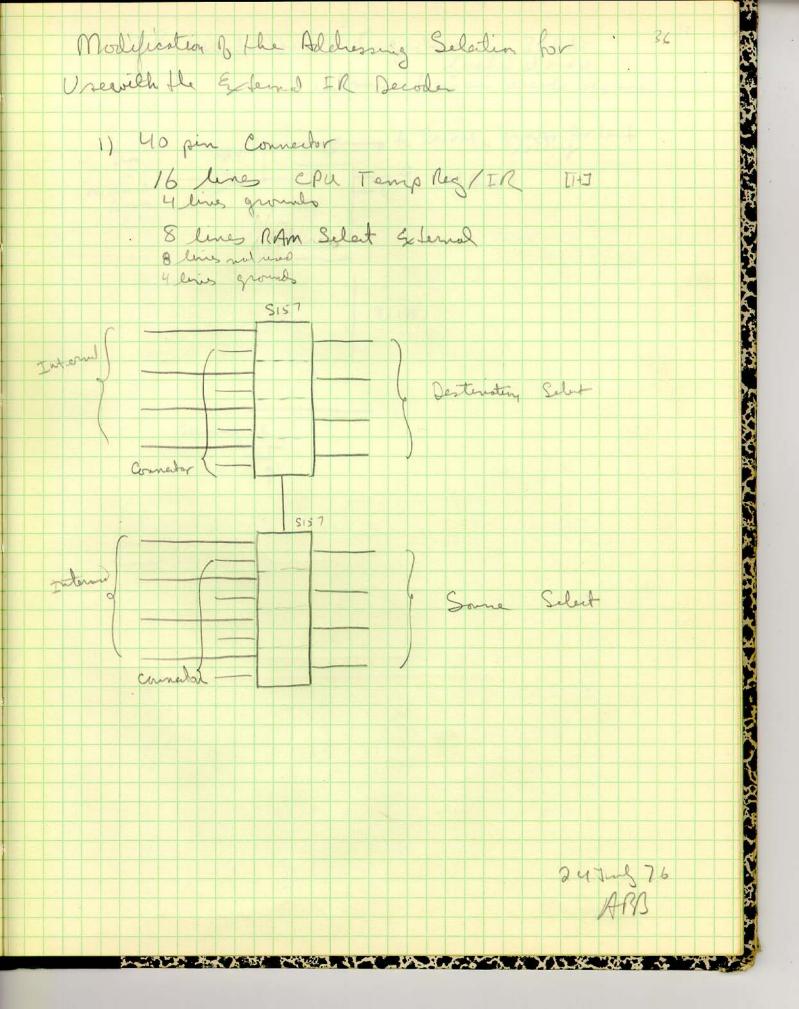


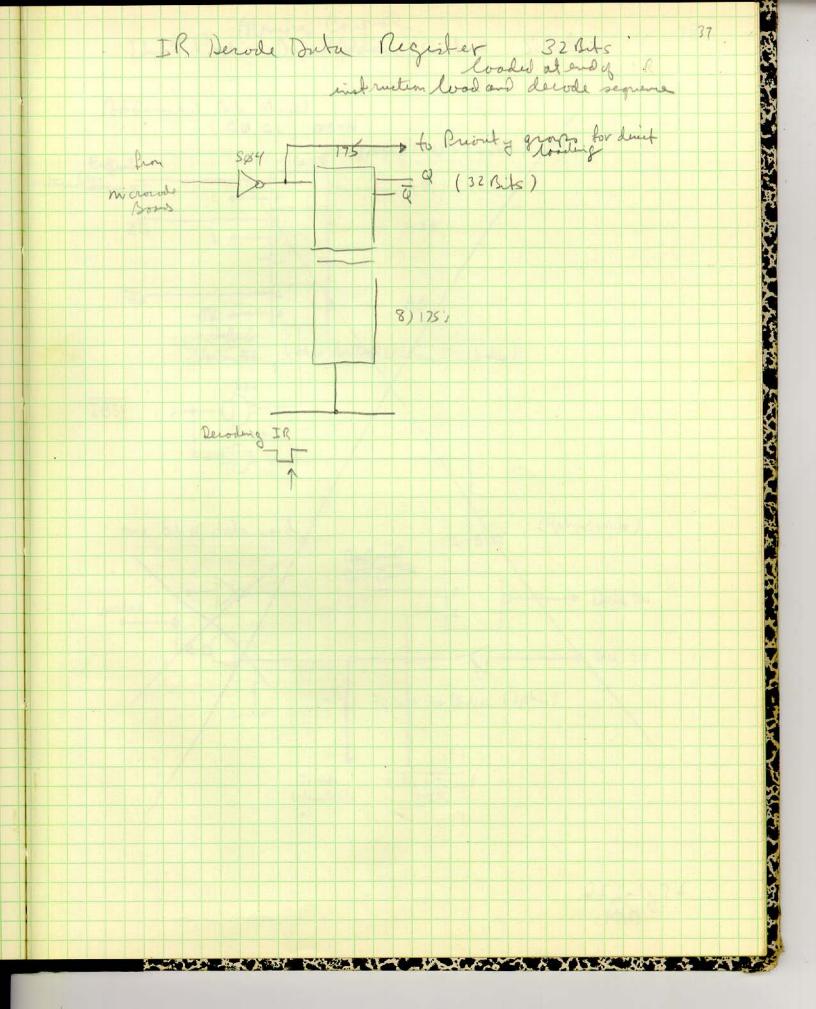


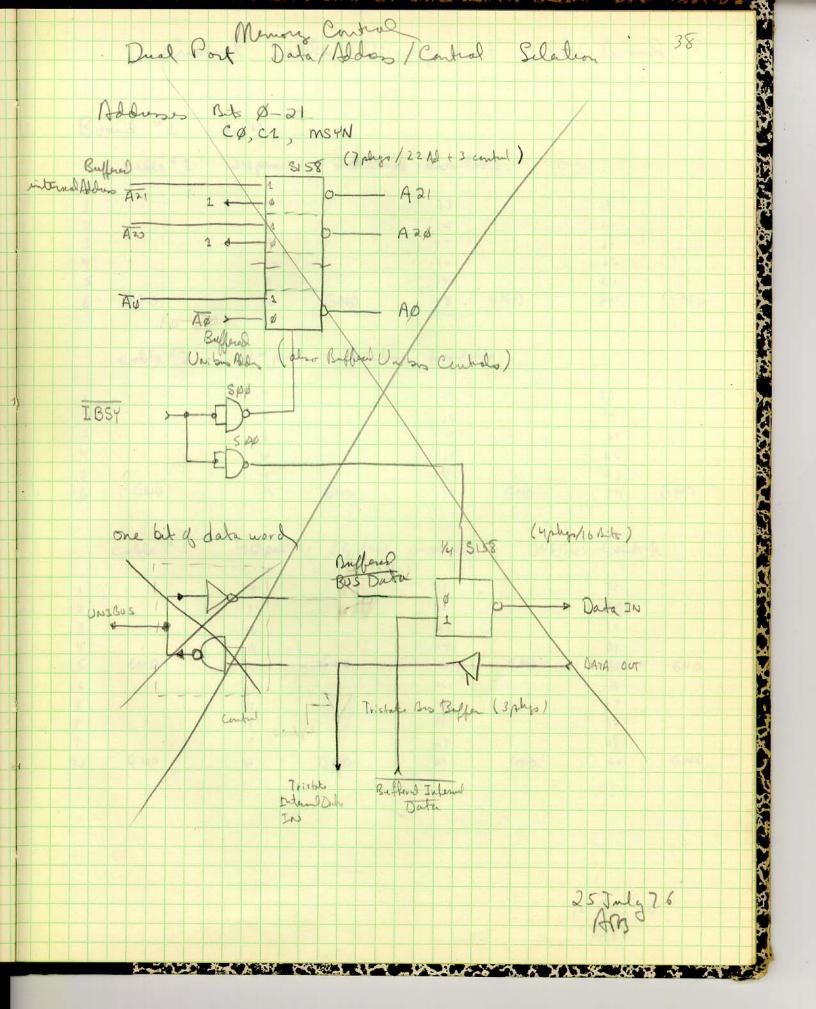












Current Cable Wiring list - CPU Boond 39

Board #1 CPU と記述用していたとうない。 cable "1 24 pin ; 20 lines avoilable ; mars 24 GND 18 GND GND 12 GND cable #2 24 pin; 20 lins avoilable などができくたいとなった。 GND GND GND GND n calle # 3 40pin : 32 lines available ; UNIBUS Control r GND GND GND GND GND GND GND GND 48.00 14 Ang 76 ARO

	Bo	and #2 C	PU			A DE TEL	-		Bor
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+	++	Cable " 4	40 pm	SZ lines	and all	e.; UNE	GUS DA-	TA/ADE	Co
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	2	BDØ1L		BD49L	21	8A 144 L BA 161 L	31		
	3	BDP2L	12	BDAKL	22		32	BAB9L	2
	4	BAASL		DDIL	23	GAØZ L	52	BAIDE	3
	5	GND	15	GND	24 25	BAW3 L GND	34	GND	4
	6	BOUGL		BDIZL	26		36	BAILL	5 6
	7	BDASL		BDI3L	27	BAPEIL	37	SAISL	
	8	BD46L	17 18	BDIHL	28	BABSL	38		7
	3	BDØTL	19	BDISL	20	BA 47 L	38	BAIYL	. 1 9
	10	GND	20	GND	30	GND	40	BAISL	
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		cable #7.	40 pm	· 32 ling a	wildle	· Data Rege	ster aut	/ TN DATA	C
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	1	DRO &	1/	DROB	21	INDØ	31 . 0	IND 8	
	2	DRO 1	n	DROG	22	INDI	32	INDS .	2
	3	DROZ	13	DROLD	23	IND2	33	IND ID	3
	4	DR03	14	DROI	24	IND3	34	IND I	4
	5	GND	15	GND	25	GND	35	GND	5
	L	DR04	16	DRO 12	26	INDY	34	IND 12	6
	7	DROS	b	DRO 13	27	INDS	37	TNO 13	7
	8	DRO 6	18	DRO M	28	INDG	35	IND 14	8
	9	DR07	15	DRO 15	25	IND7	31	IND 15	9
	10	GND	70	GND	30	GND	40	GND	10
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	3	DRO 2 DRO 3	13	ORO 10	23	6 N29	33	PSR 10	3
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	6	DRO 4	15	IDRO n	6	GNI)	3	GND	
	7	DRO 5		DRO B	26	PSR 4 PSR 5	36	PSR 12.	6
	8	DRO 6	17	DRO 14	28	PSK6	37	PSR 13	7
	5	DRO 7		DRO 15	28	PSR 7	38	PSR 14 PSR 15	1 8
	10	GND	19	GND		GND	31	GNU	9
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2 IRS 1	In IRS9	27 ERI	n 119
3 IRS 2	13 ERSIO	23 JAR 2	30 IR 10
y IRS 3	14 IRSU	24 IR3	34 IRII 35 GND
5 GND	15 GND	25 GND	-0.
6 IRS 4	16 IRSIN	26 TRY	
7 7 7 RS 5	17 TASIS	27 ILS	37 ± K13 35 ± R14
8 IRS6	18 IRSIY	25 IR6	
9 IRS7	19 IRSIS	LS JR7	38 ERIS 40 GND
IN GND	20 GND	30 GND	40
	22 1	sailablo; MMGT-	called a log and
cable # 2 40 pm	; sc times an	9	
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1 MM & WLS	H MM2 WLB	0 0	32 Rudge
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3 May Read	13 Man 2 Read	24	34
Y RIDA	IY GND	U GND	35 GND
5 GND		26 11 1 2 0 0 0	36 10 8 8 12 1
6 mmg wes		26	37 20 Rund 13
7 mm while	15 × A voice	28 10 10 16	38 0 0 0 4 9
8 mm1 Read	15 ~ ~ ~	28 11 12 47	39 0/04/2
9 8M47	Cura I	30 GND	LO GND
IN GND	to GND		
cable 43 40p	n: 32 lins avoil	able, Interond alder	or Nos & Cantel
Cape p	, peu	and Unites Addas 5	Cartallo
ITAD	II IA8	21 IA 16	3, IBBSY
2 TAI	12 AJAS	12 JA 17	32 ± MSYN
3 IA 2	13 A 1A 10	2) IA 18	33 I SSYN
4 ± A 3	IV ATA II	14 ± A 19	34 DTOB (Data to hus)
5 GND	IS GNI)	IT GND	30T GND 30 RBASYNJ
6 144	11 JAN	4 IA 20	000001
7 1AS	17 ± A 13	27 IA 21	0. 0.
8 #A6	18 1 + 14	28	
8 IA7	19 TATAIS	21 20	600
10 GND	20 6ND	30 GNID	
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			AGO

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4 5	AD3		14	ADII	24	ADX 3	34	ALT L	
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6	AD4	01	16	ADIZ	26	ADX4	36	P RATE A	
7	ADS	100 -	17	AD13	27	Aoxs	37	2 2 2 2 2 2	
8	AD6		18	ADIY	28	10 Arrest 31	38	- States L 1	(-
9	AD7	21 -	19	ADIS	29	3 1 A 1 1 1 1 1 1 1	35		
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2	GADI	R P	12	6A09	22	GADIZ	32	VI	
3	GAD2		B	GADID	23	6ADI8	33	21	
4	GAD2 -		14	GADII	240	GADIA	34	N	
5	GND	24	15	GND		GND	35	GND	
6	GADY		15	GADIZ	26	GADRO	36		
2	GADS		17	GADI3	27	GADZI	. 37		
8	GADS		18	6 ADI3	28	OMUAL		4 (19)2 20	
3	GAD7		18	GADIS	29		38	New And	
12	GND	5	20	GND	30	GND	39	GND	-
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3	ADI		13	ADIO	23	IAZ	33	IAID	
4	A Ø3	1	14	ADII	24	EA3	34	IAU	
5	GND		15	GND	25	GND	35	GNO	
6	AD4	3	16	ADIZ	26	I AY	26	JAIZ	
7	AD5		17	A013	27	IAS	37	IAB	
8	ADL	2	18	ADIY	28	IA6	38	I AIY	
9	407		18	ADIS	29	I A7	29	TAIS	
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2	Bm 1	2	12.	Bmg	22	8m17	32	BMES	2
3	Bm Z	- 184	13	Bmio	23	Bm 18	33	Bm26	3
4	BM 3 GAID	198	14	BMII	24	BMIS	34	BM27	4
5	GND	112	15	GND	25	GND	35	GND	5
6	Bmy	1.50	16	BMIL	26	Bm 20	36	BM28	6
7	Bms		17	am13	27	BM21	37	BM29	7
8		3	18	BMIY	28	Bm22	38	BA30	8
9	Bm7		19	BMIS	29	Bm 23	39	Bm 31	- 9
10	GND	122	20	GND	30	GND	40	GND	10

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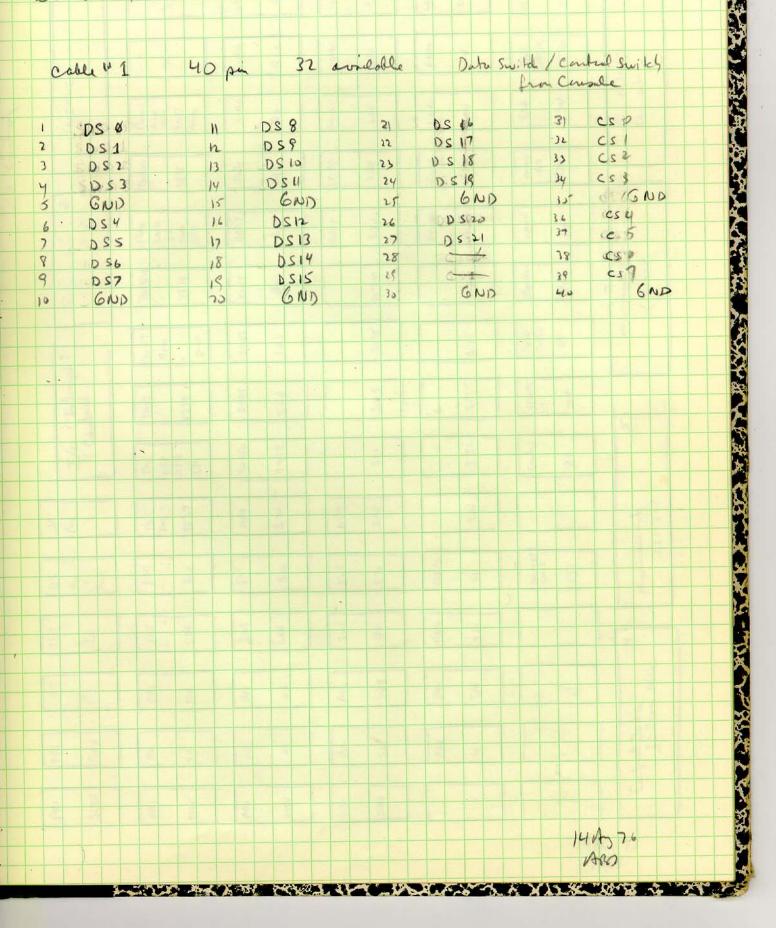
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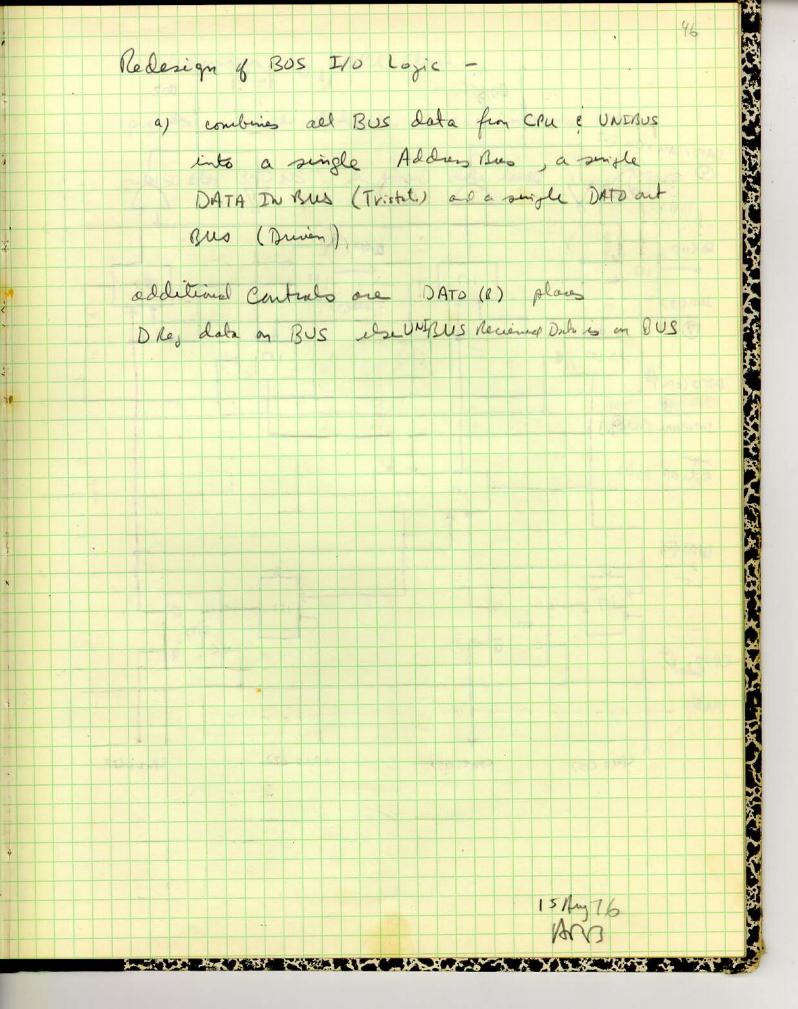


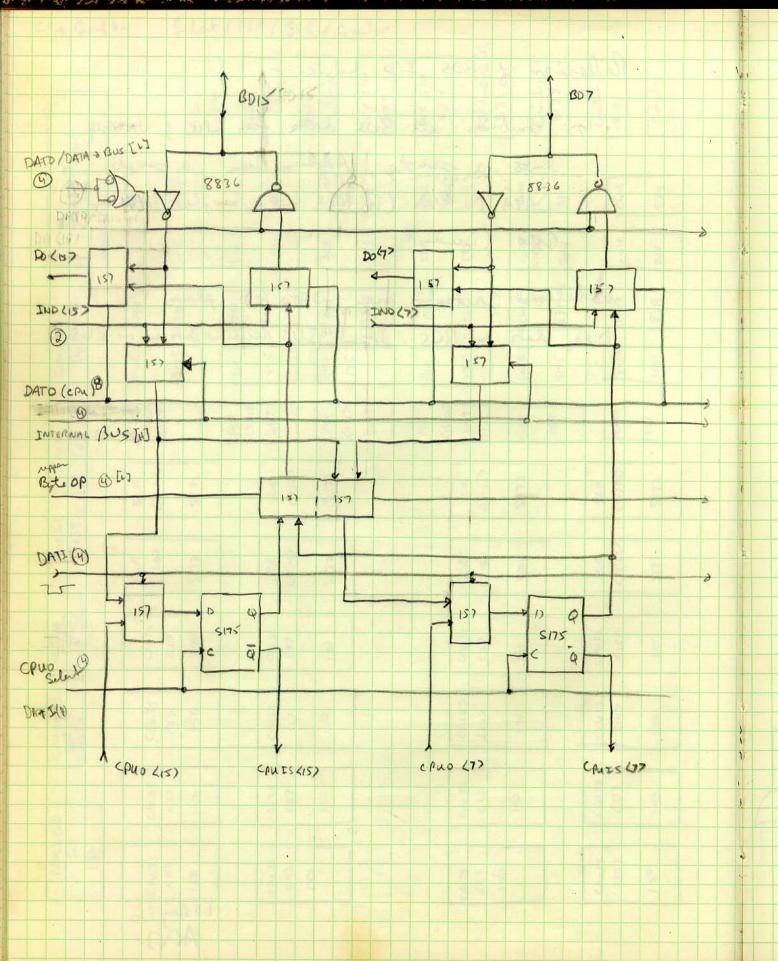
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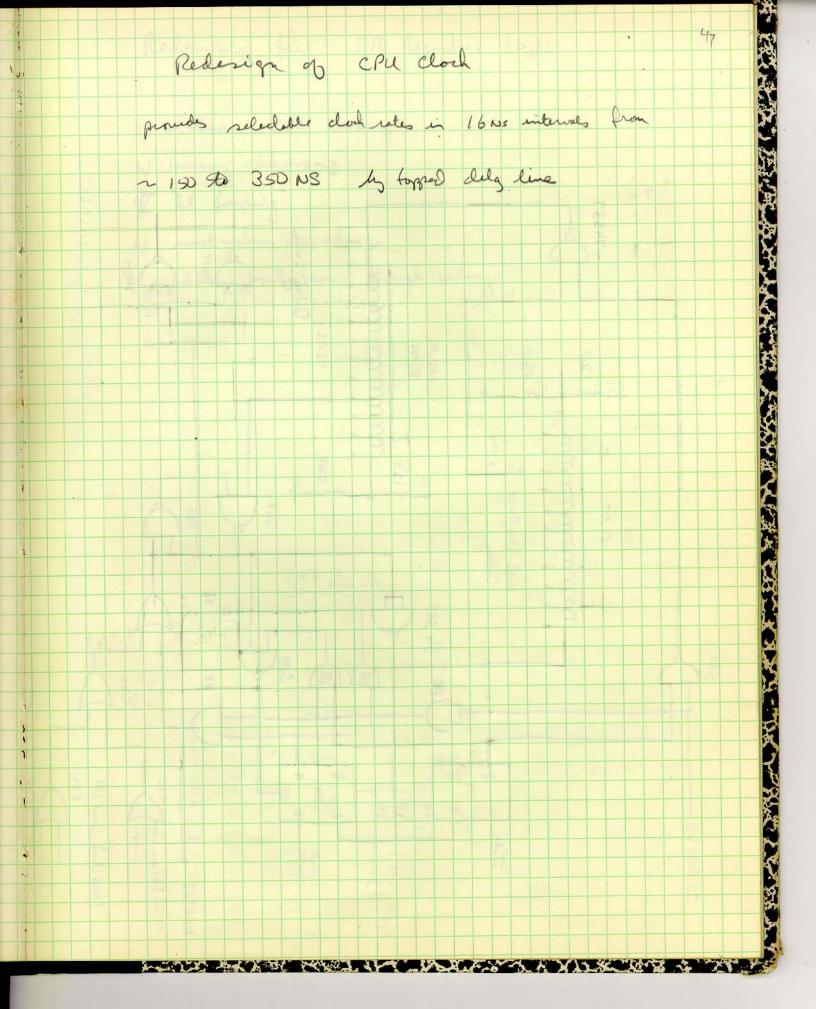
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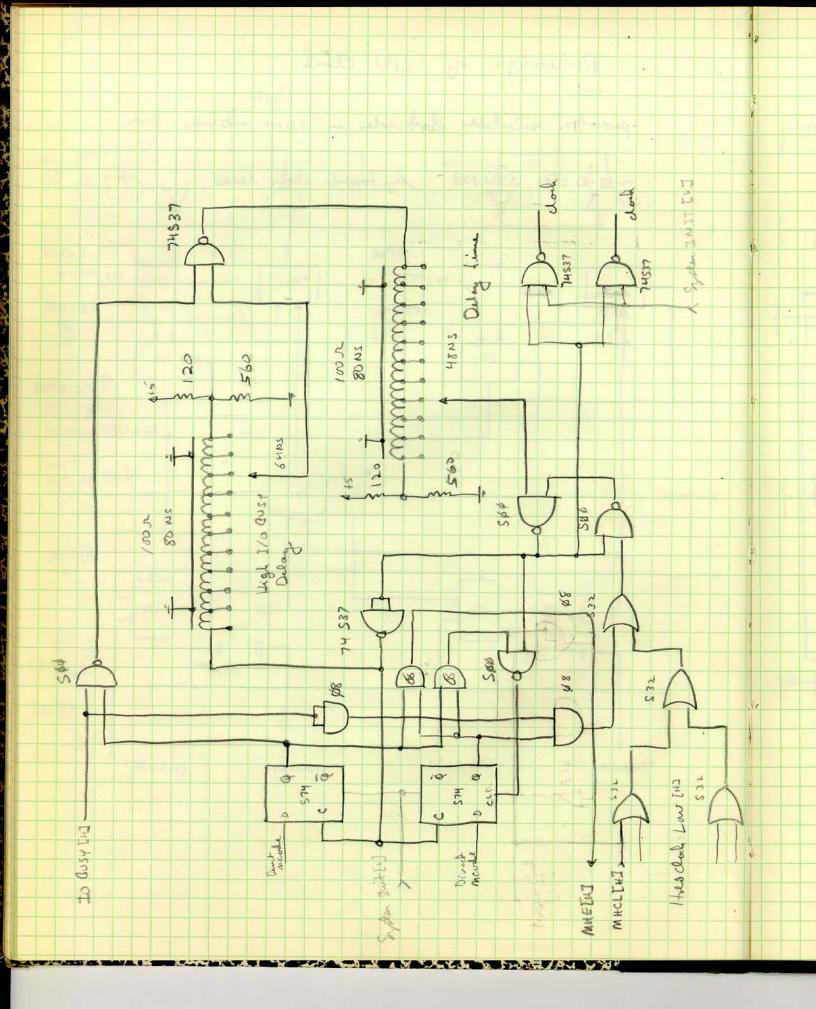
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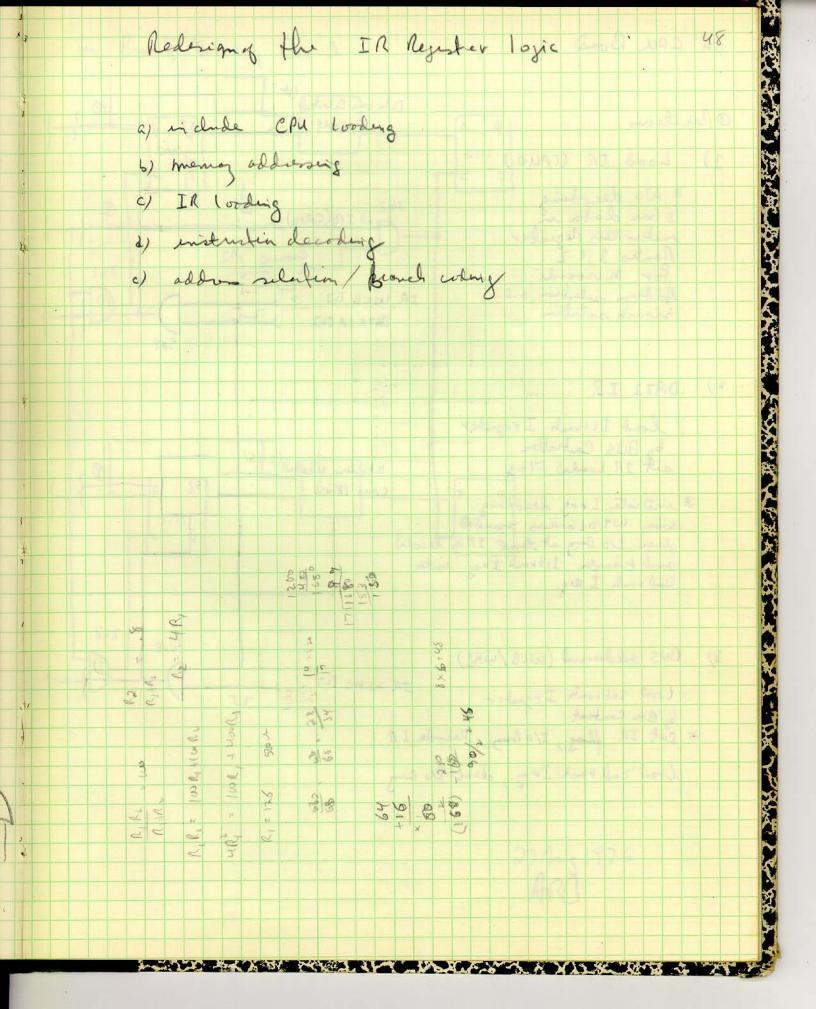
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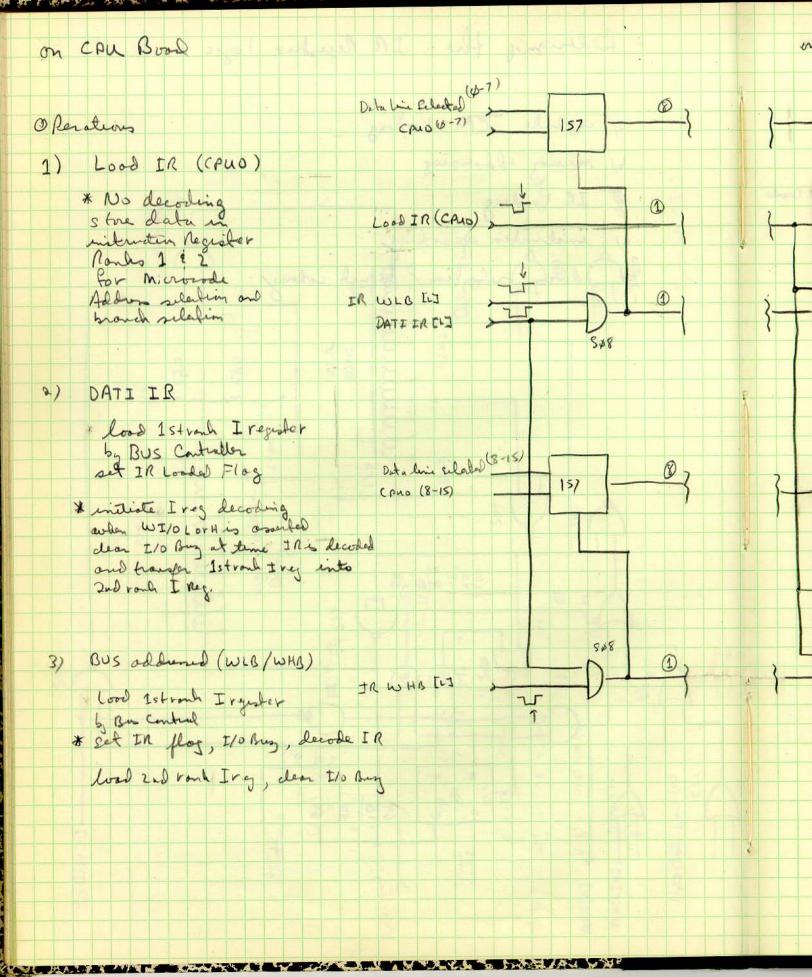


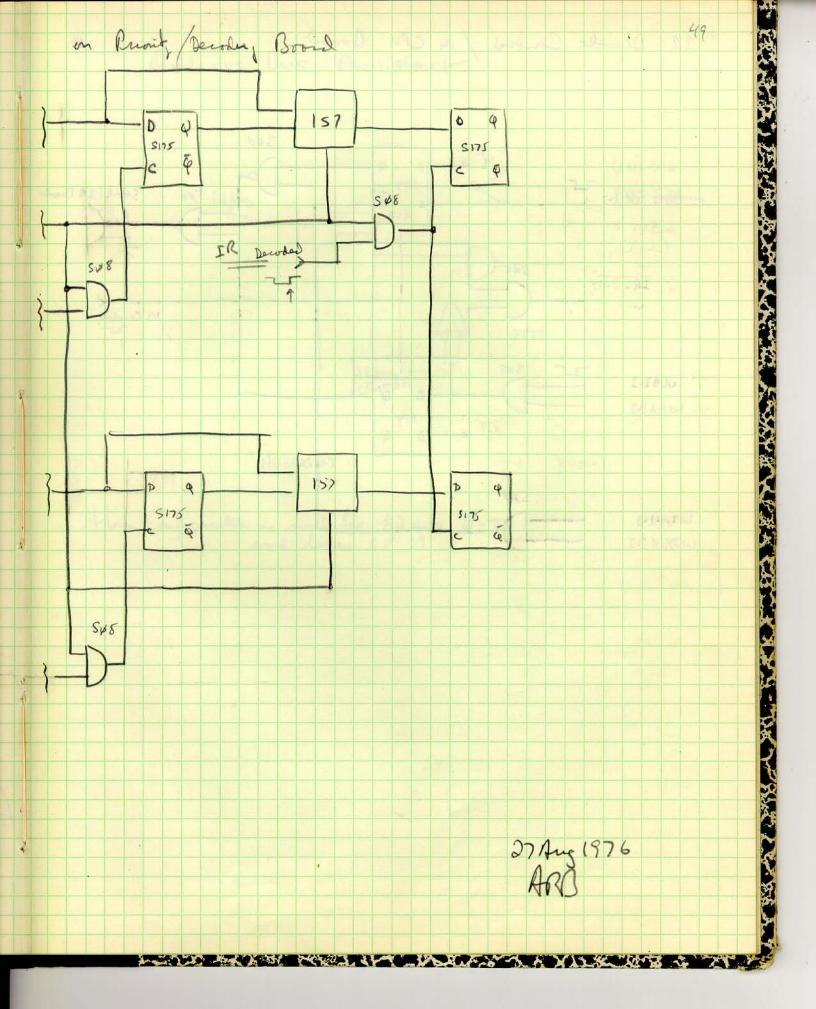


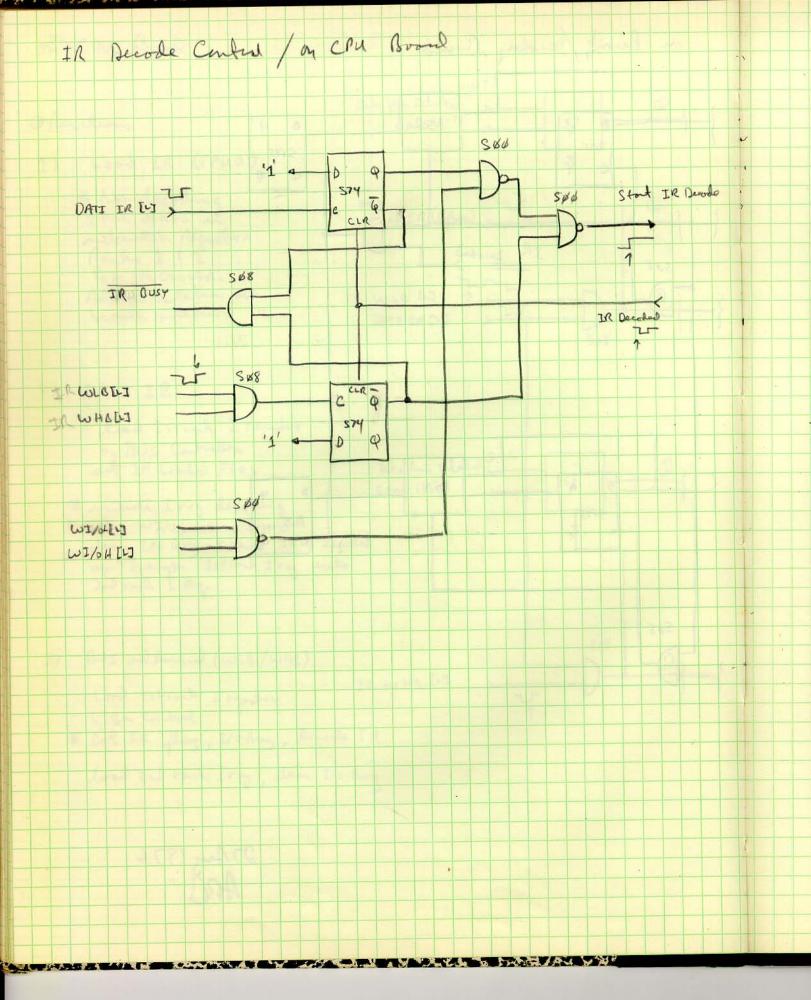


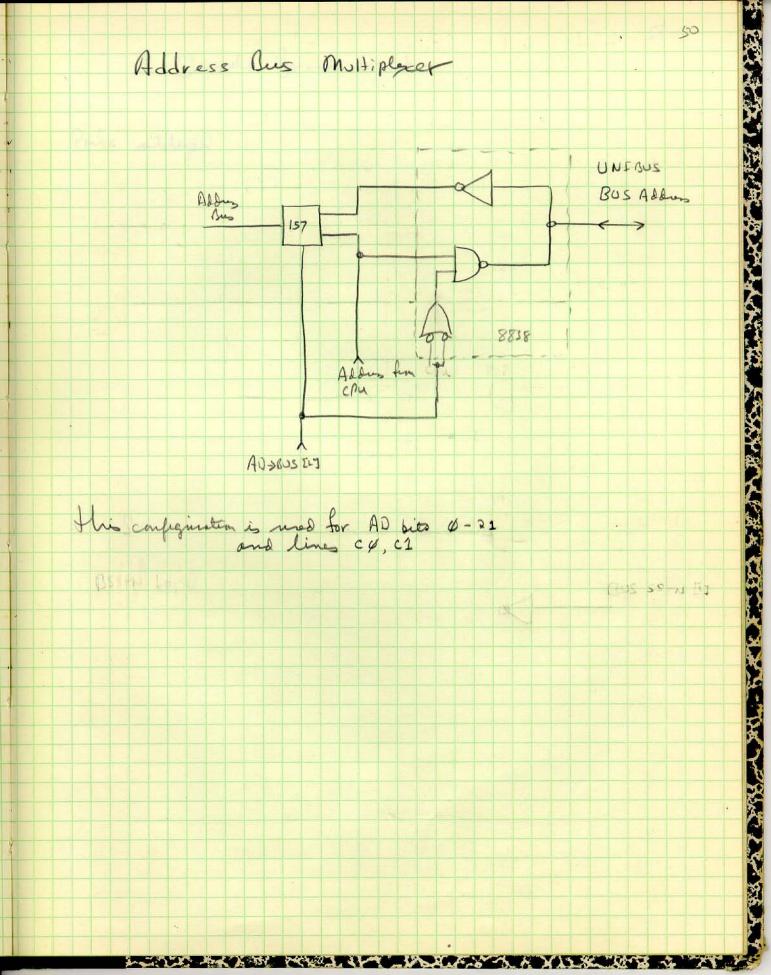


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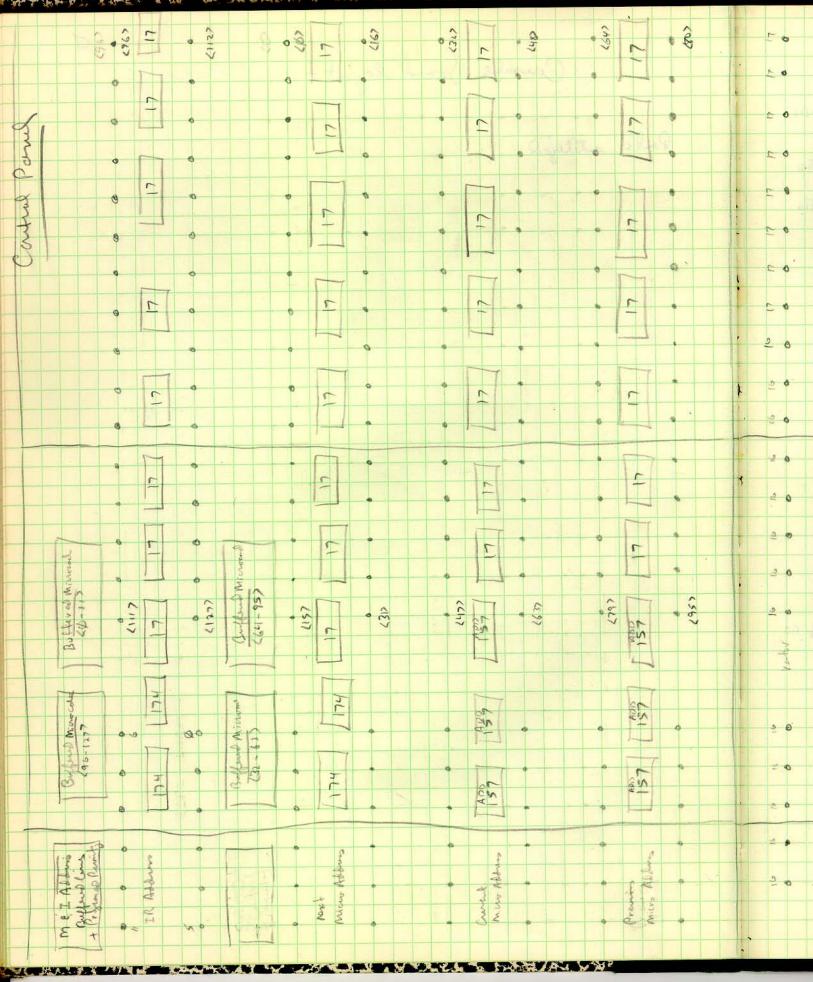


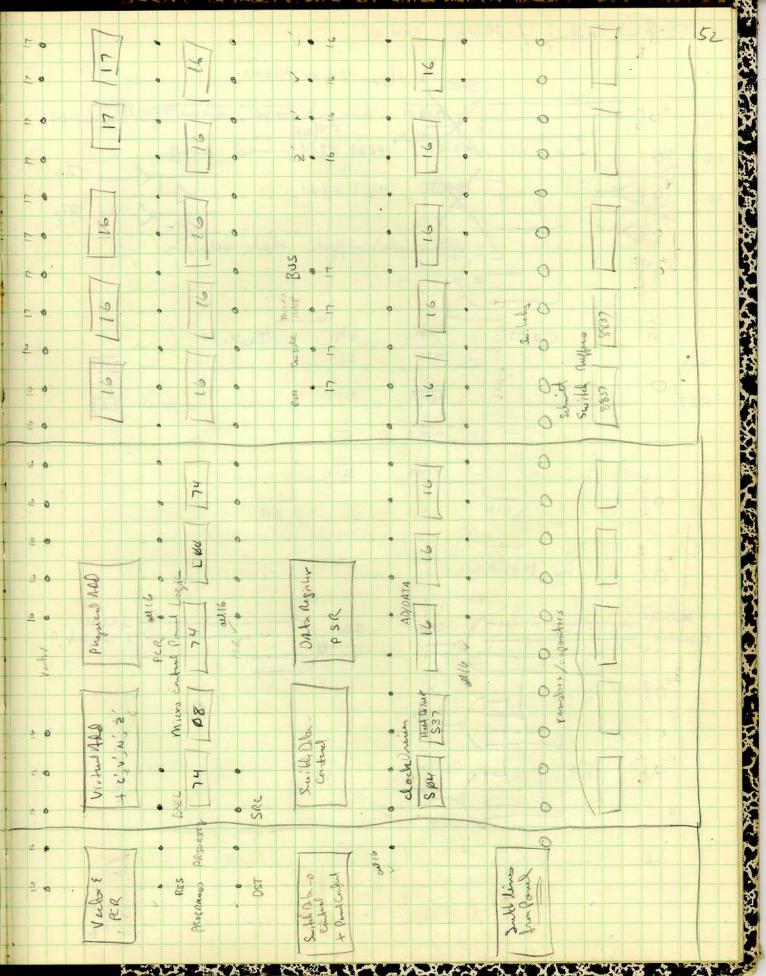




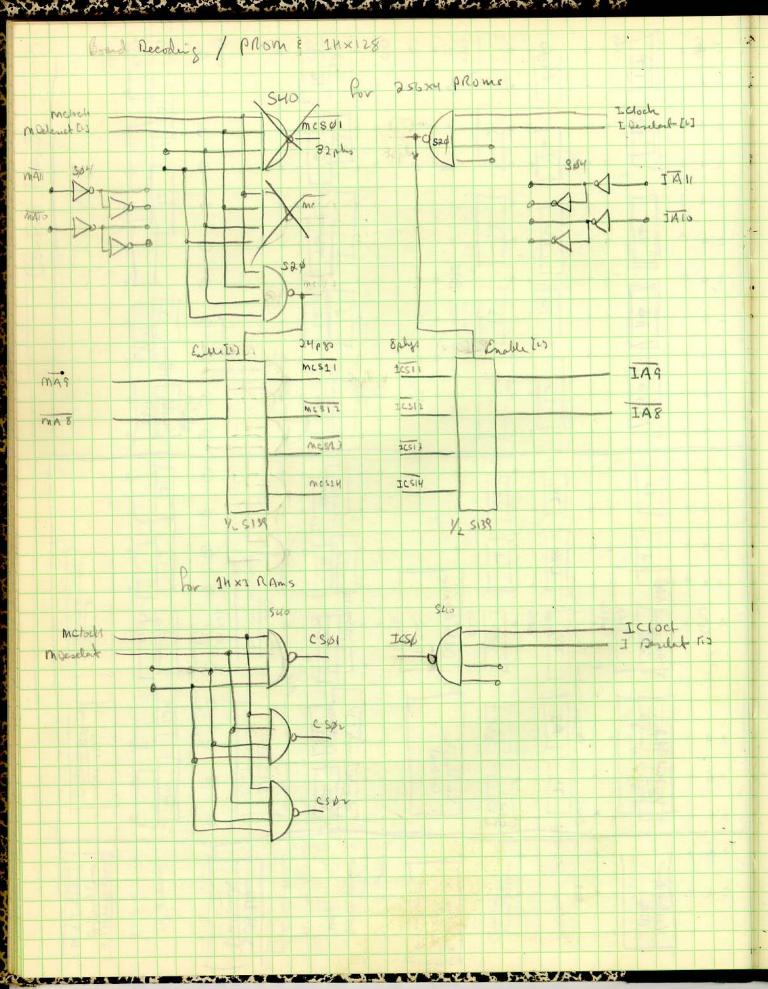


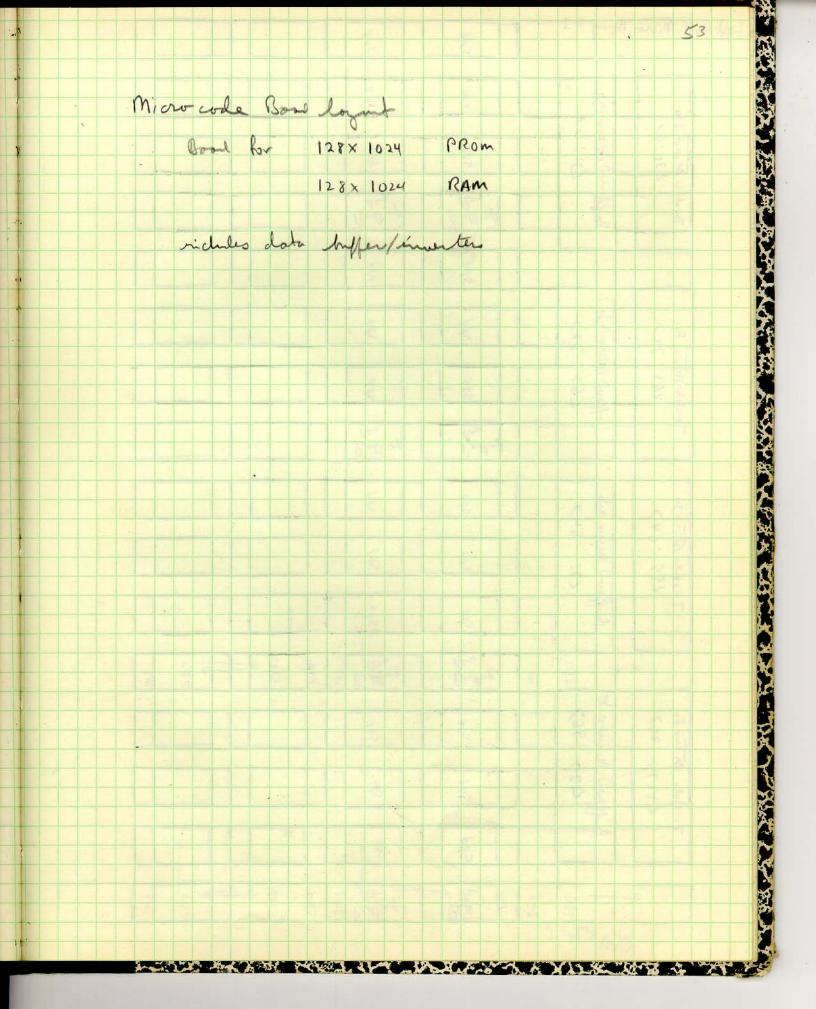
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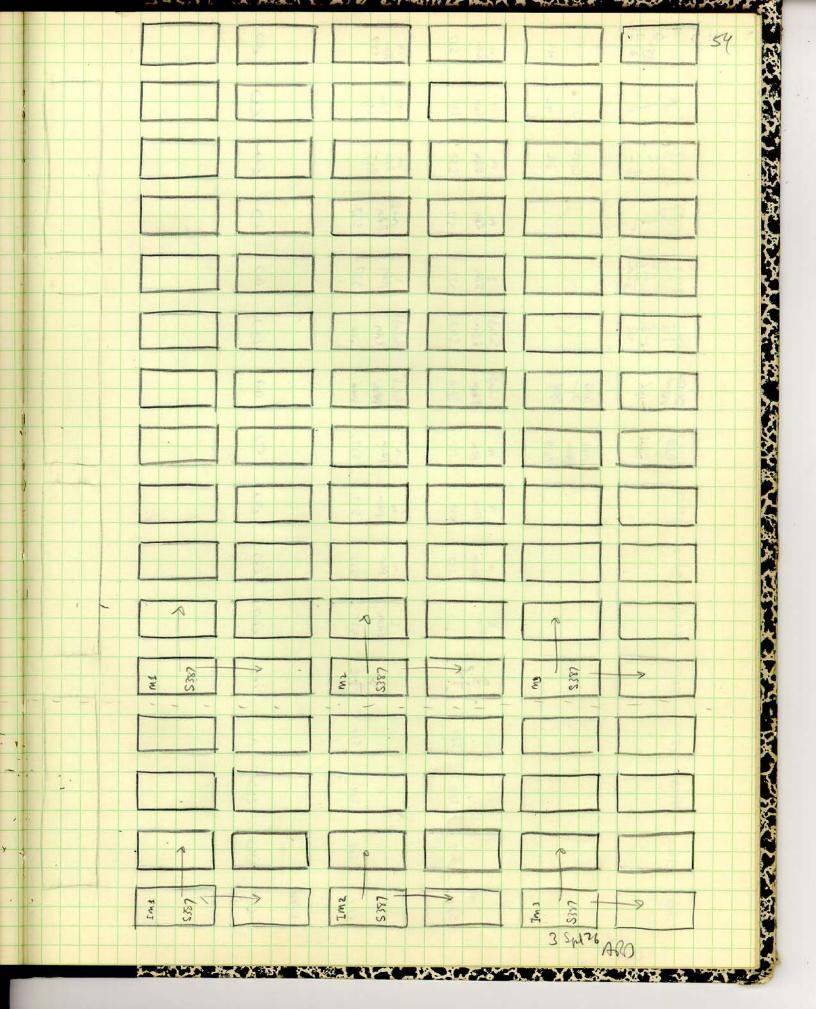
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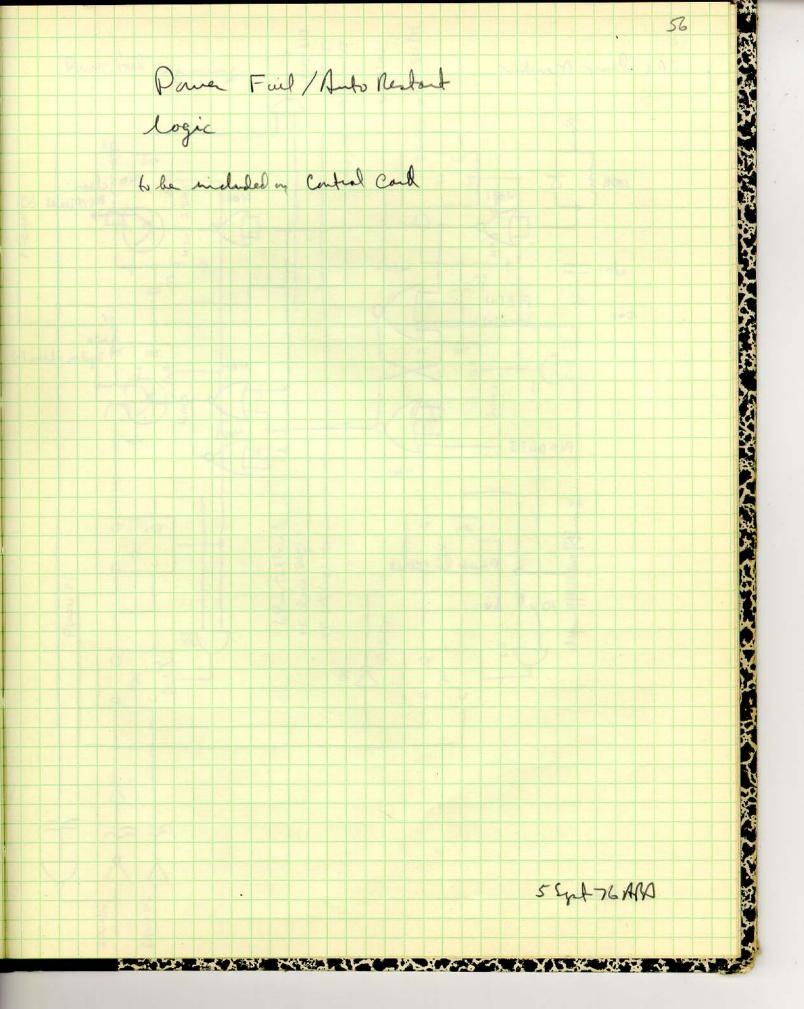
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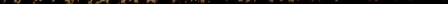


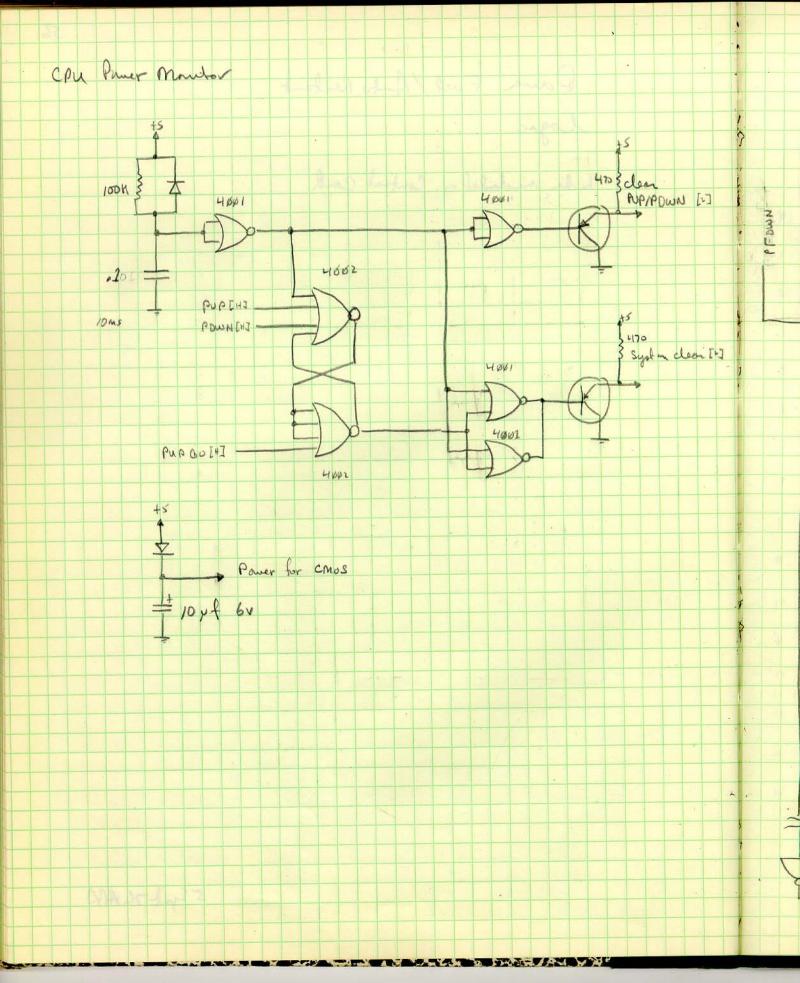
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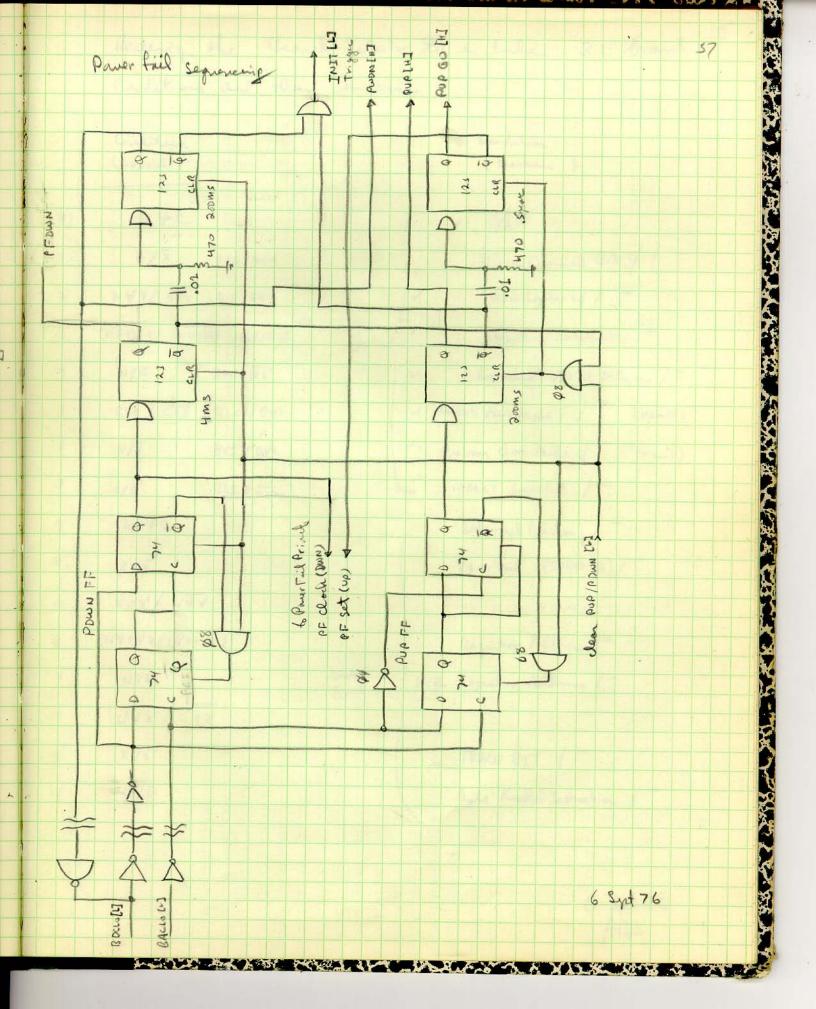
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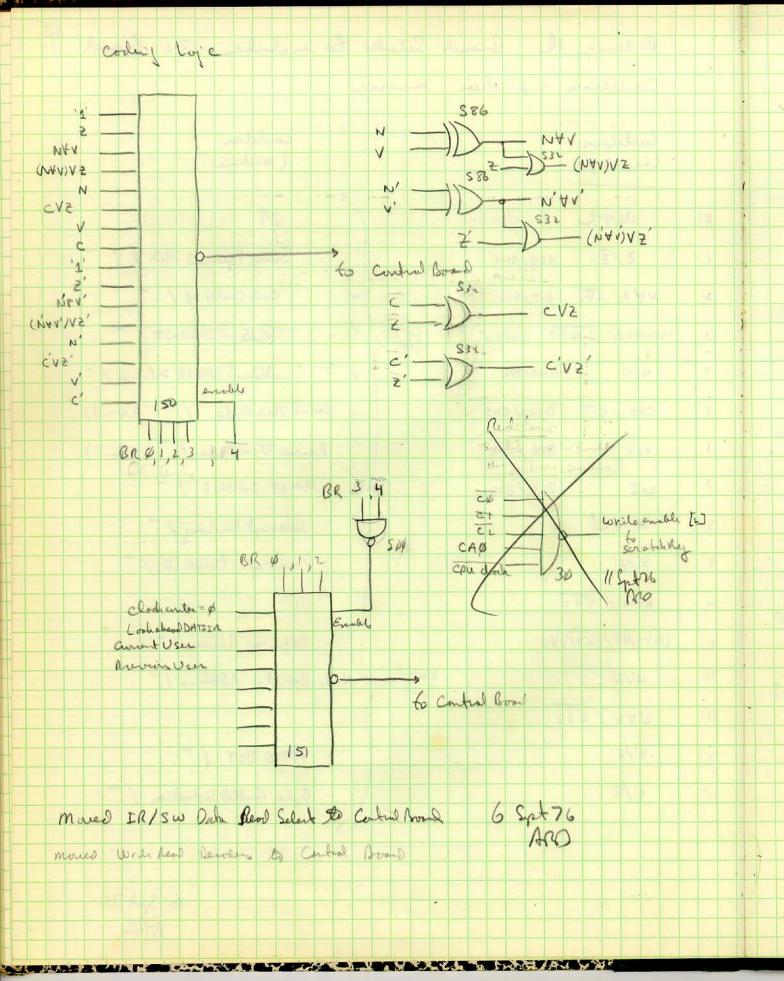


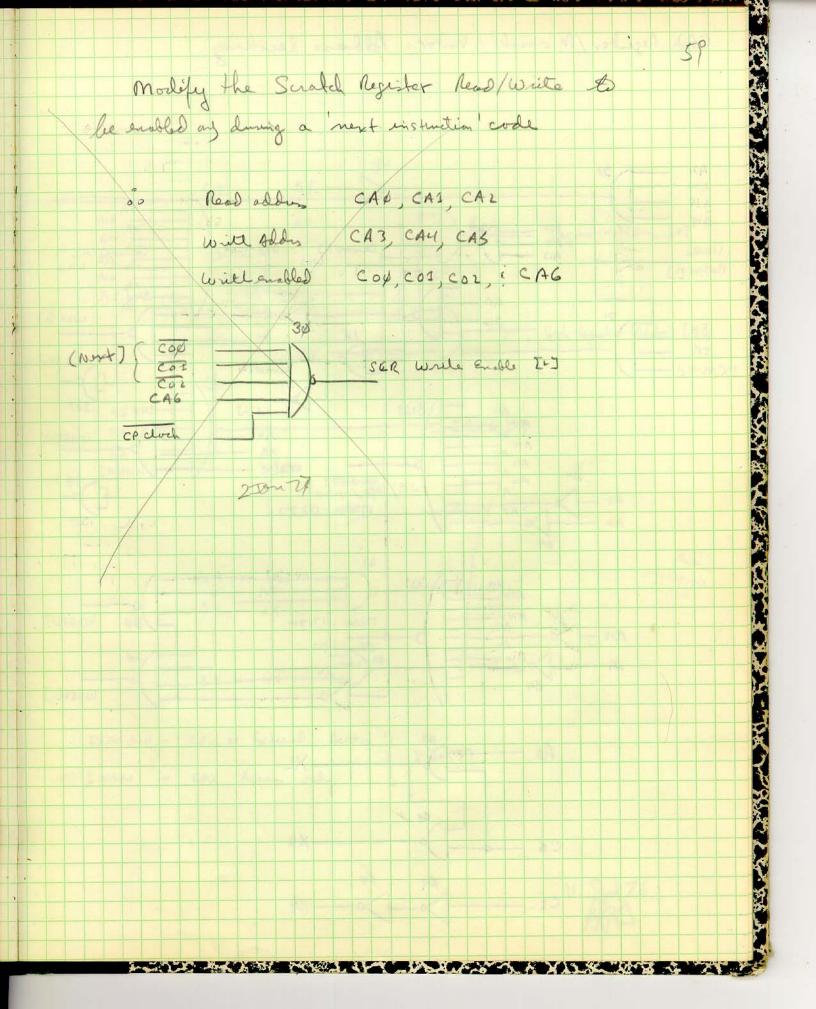
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Conditions and their mierses

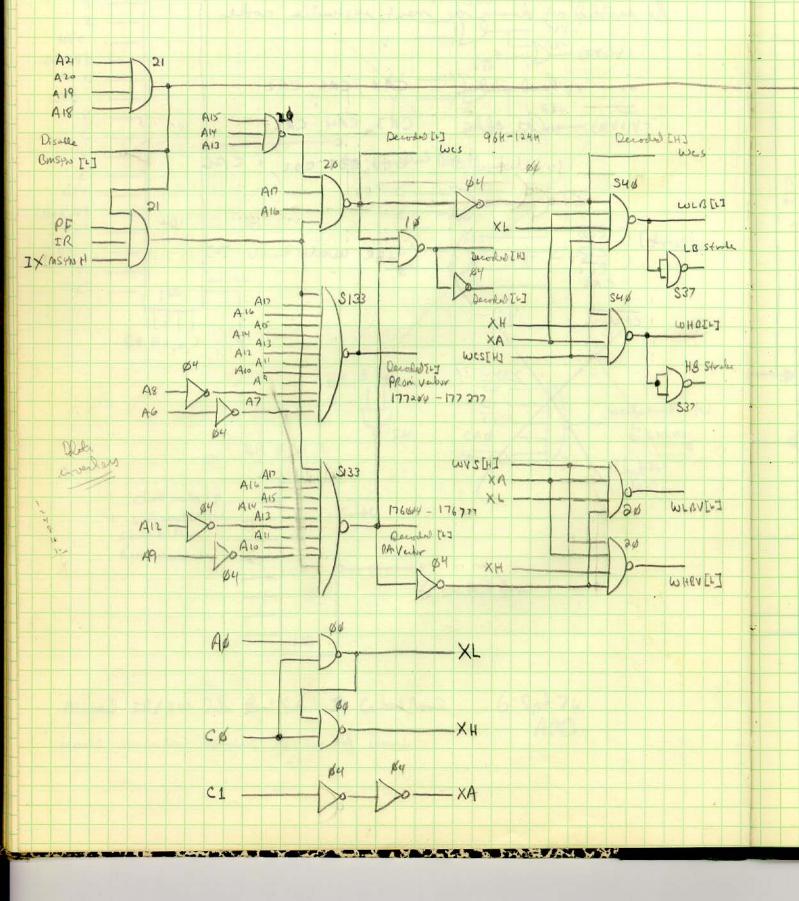
condition Condition (machine) (Lojical) 9/I alon in la NYC 10) Same Operand Bit of (Z/Z BEQ/RNE 1) Clock Conter = 4 / -NYV/ NYV BUT/BOE 1 2 1 BUS "Internet -CAN (N+V)V 2/ (N+V)VZ DLE/BGT 3 Lookahead DATIIR Dr. Proves / -N/N BMI/BPL 4 V ~ anat USer mode / (Kerned) CVZ/ CVZ BLOS/ BHI 5 Previos User Mole / (Hend) V/V BVS/BVC 6 MMGT Empled / -4/E BLS/BLS 7 Jakenupt Rendency / -N'YC' 8 Power Fail PWON [H]/-2/2 9 NYY NYV IRPA LOL RSI 10 Register Addres / -(N+V)V2/(N'V')V2' 1/ control High Register Address 1-12 N'/T' Book CV2/ CV2 13 TRACE BIT / -V'/V' 14 Byte Enabled Instruction / c'/E' 13 6 Syst 76 ANA ROUT A MALE AND A MALE AND A MALE AND A

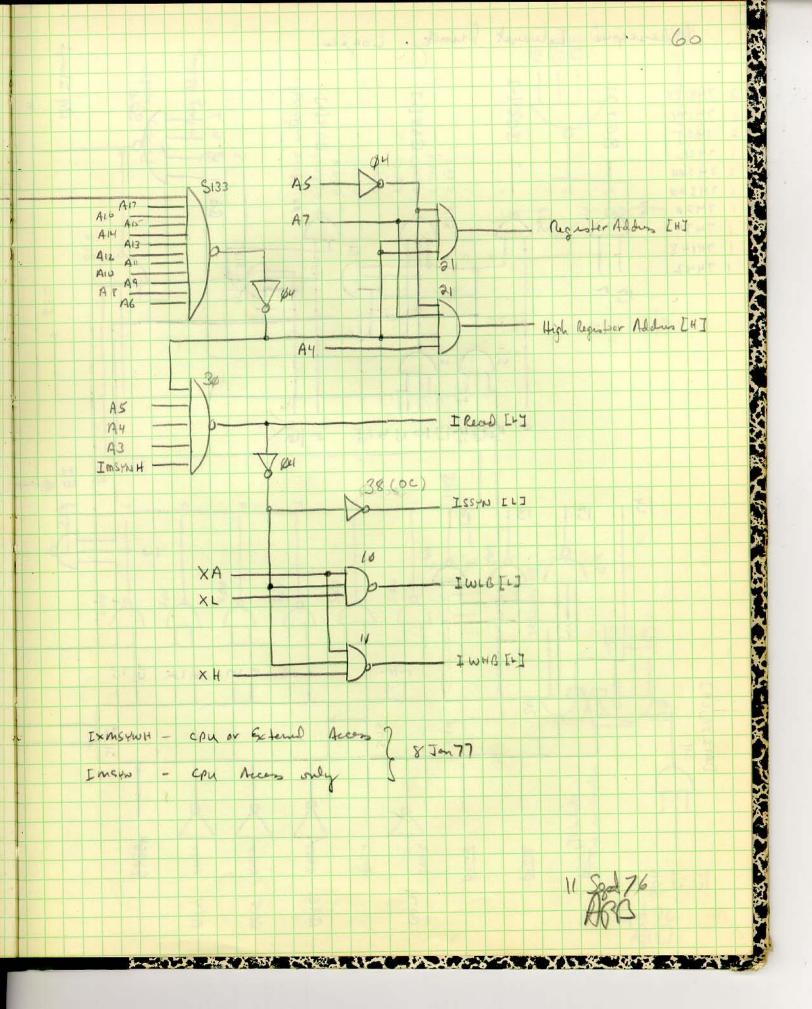


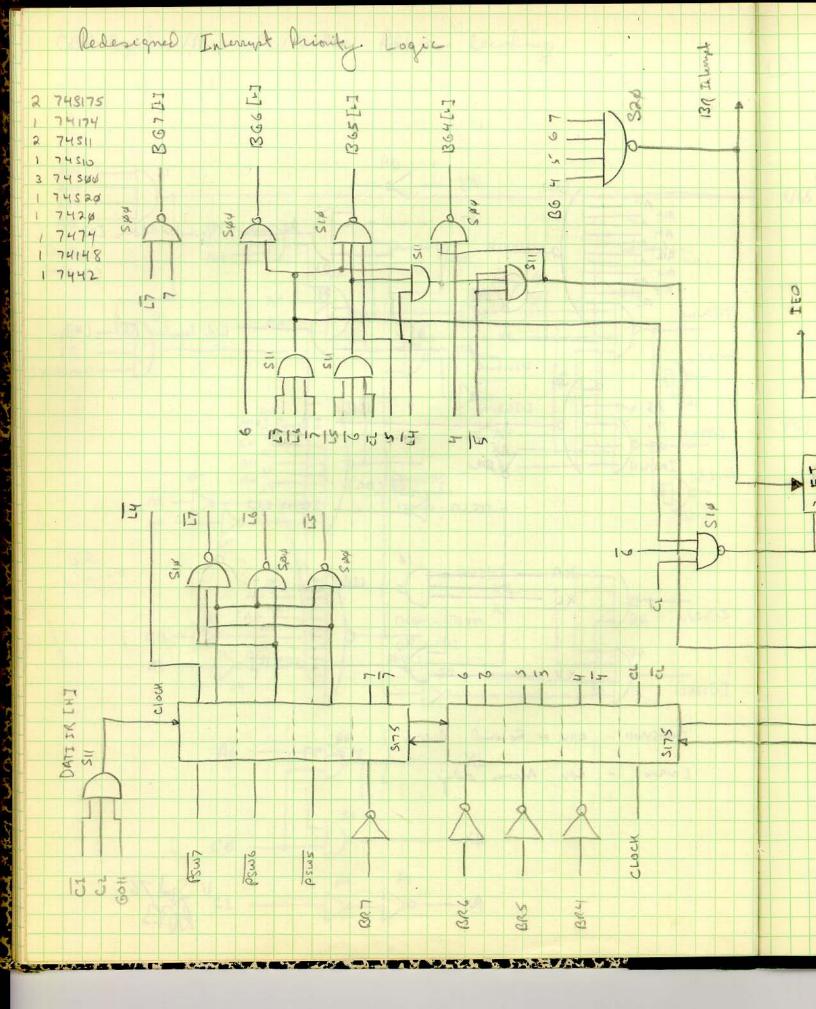


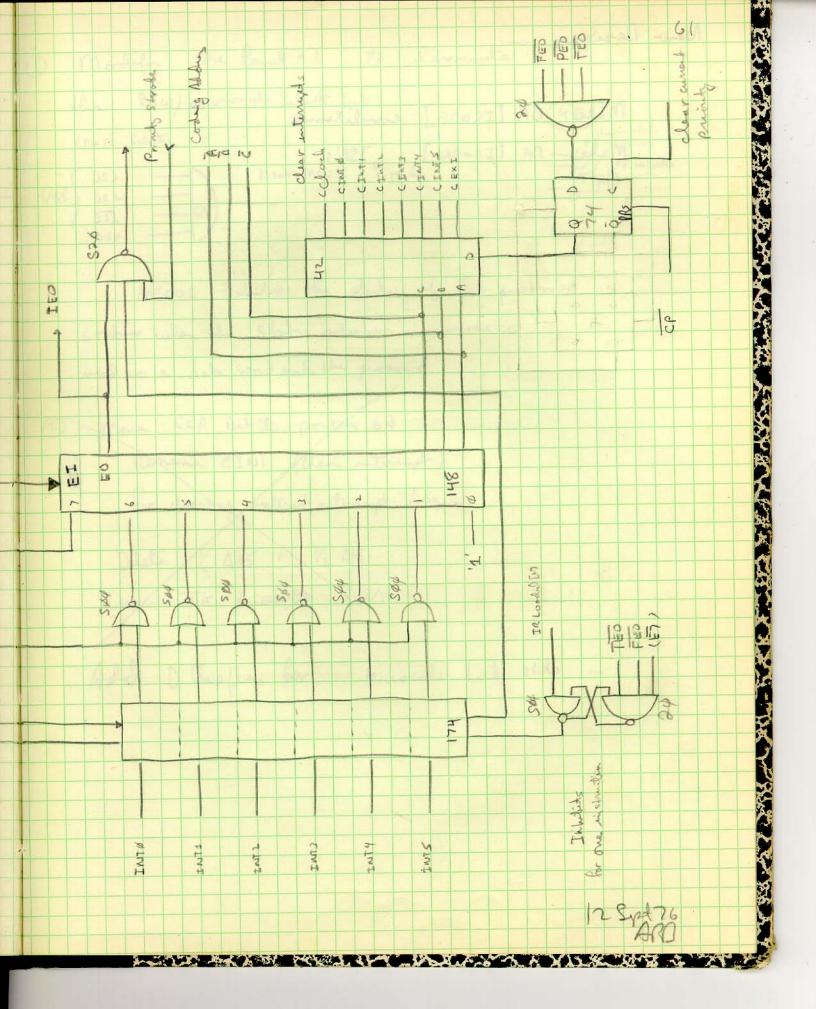


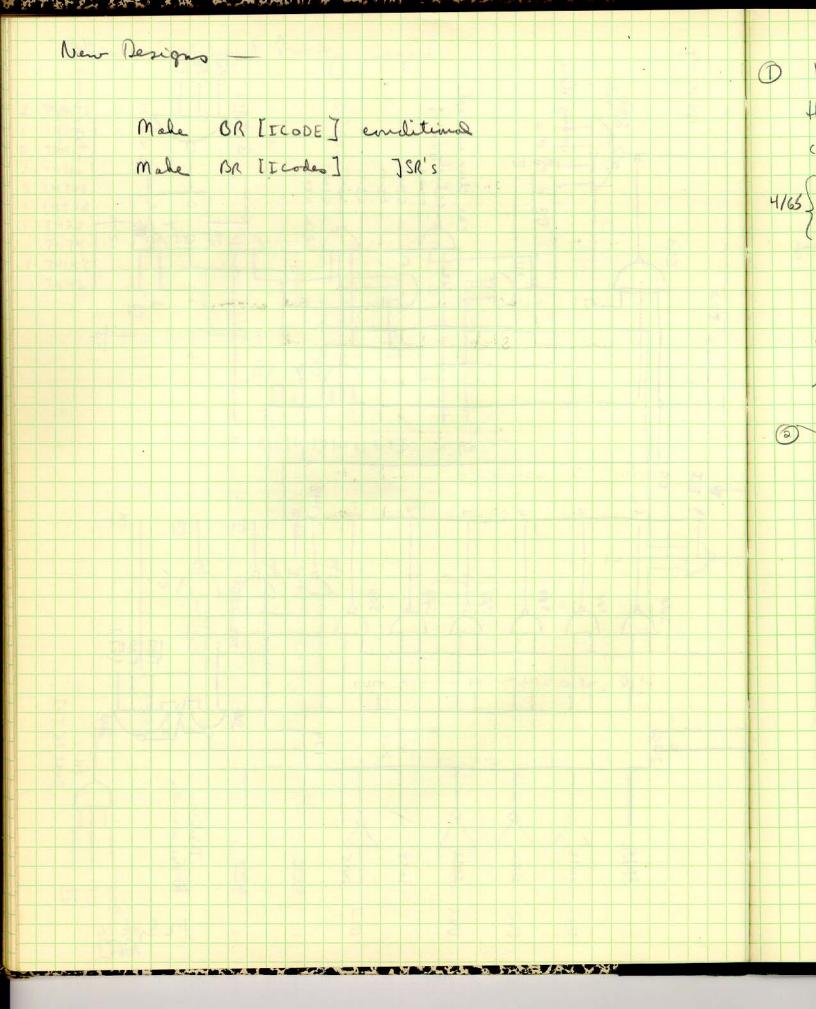
CPU Register / Microcode / Vector Address decoding

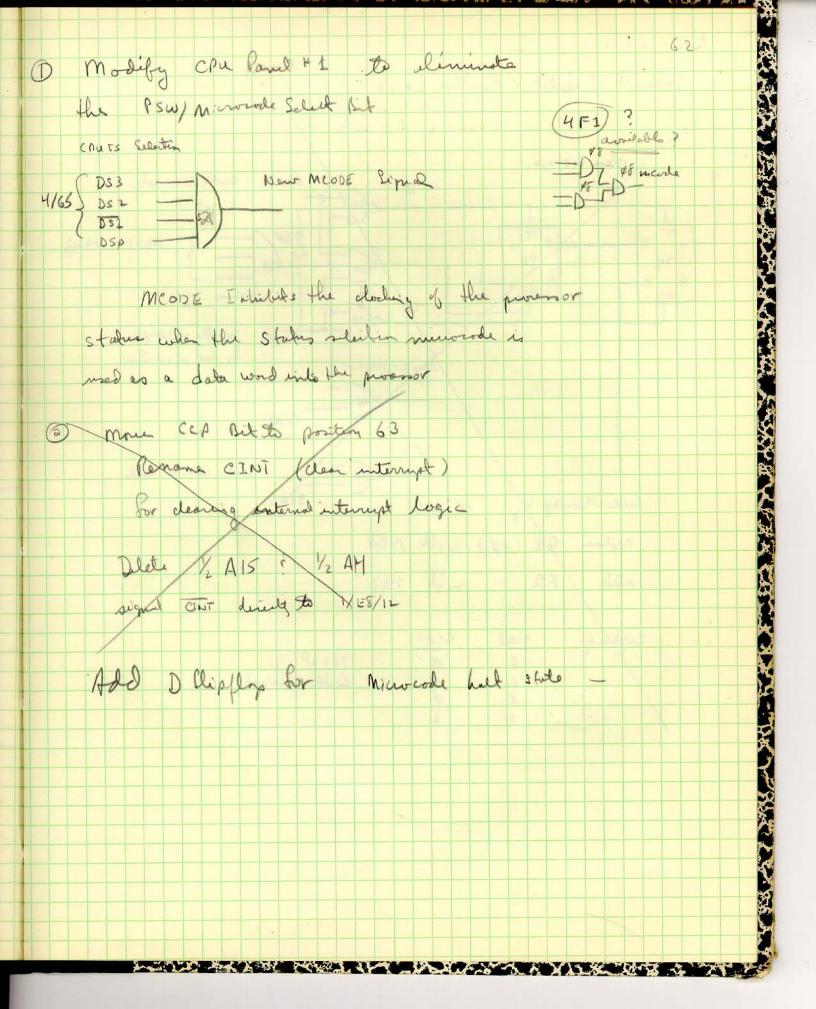


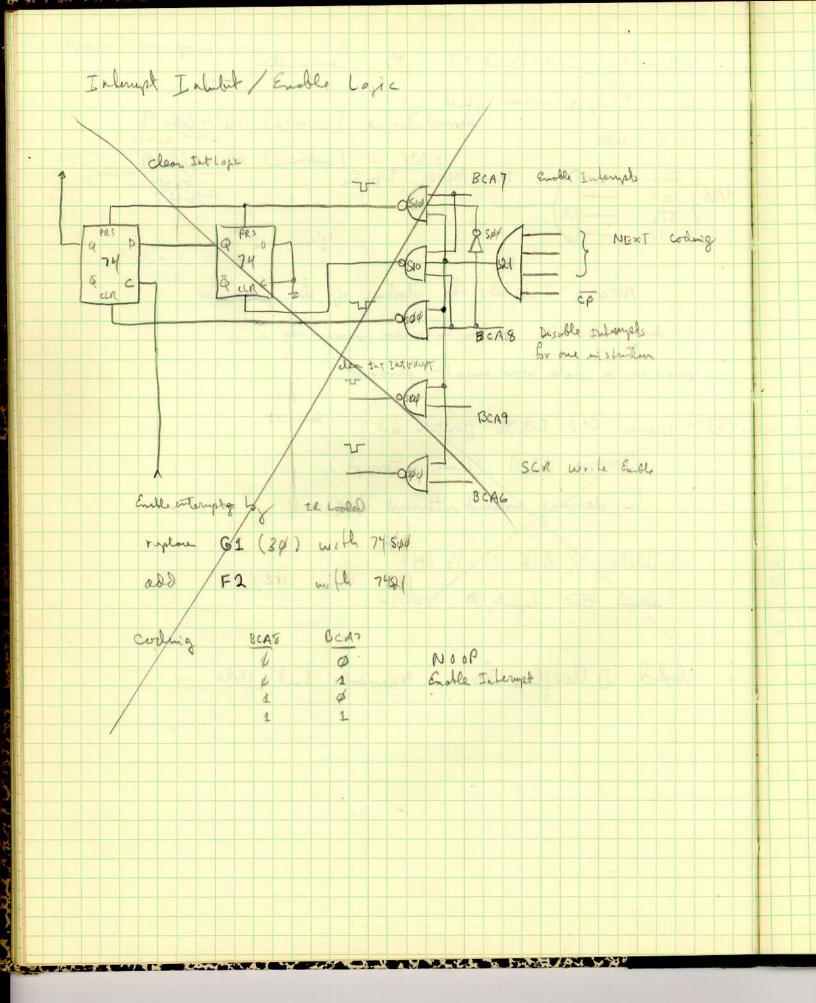


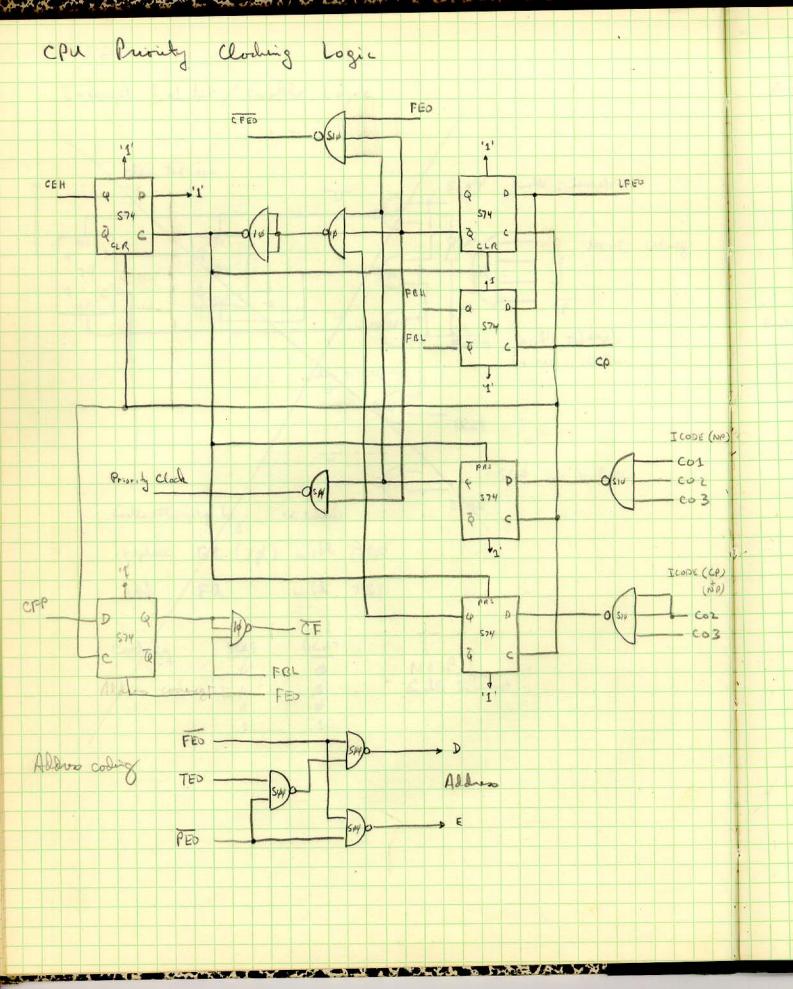


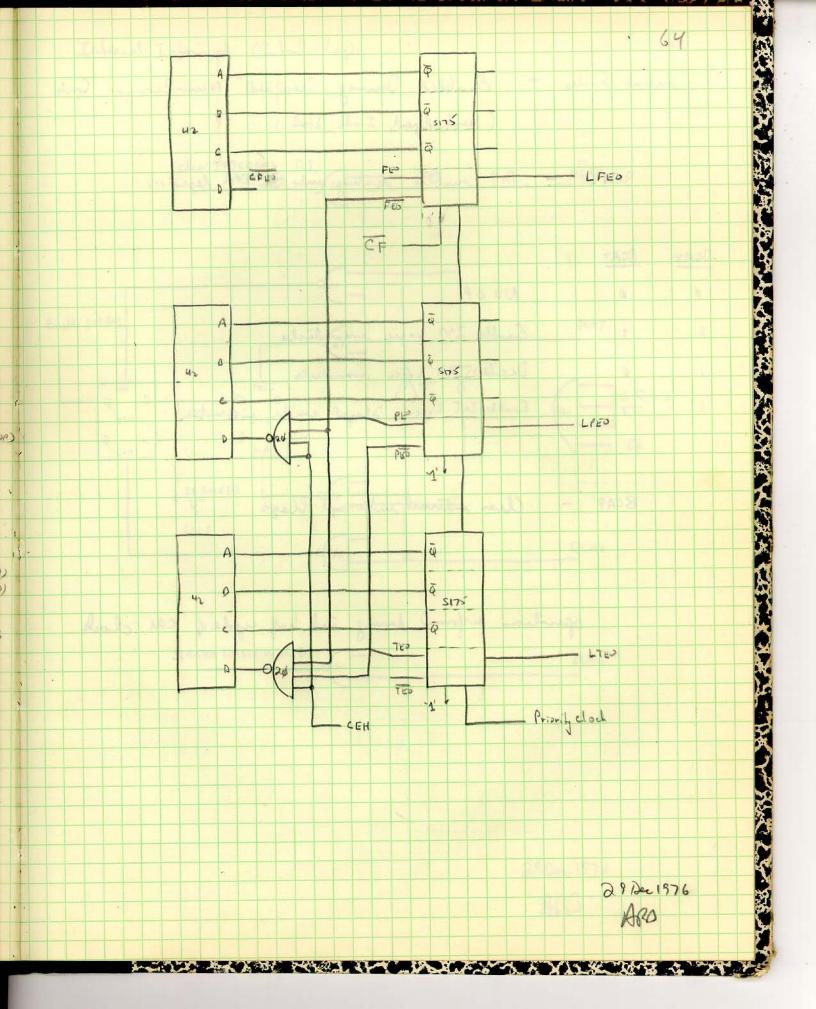






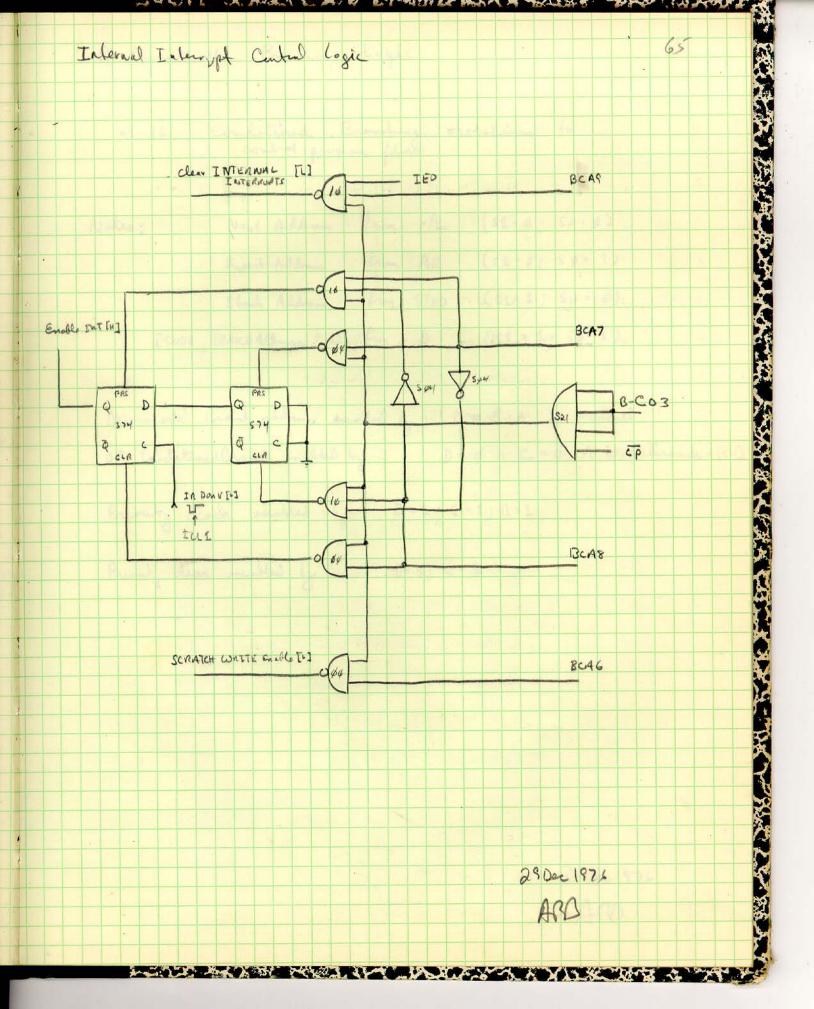


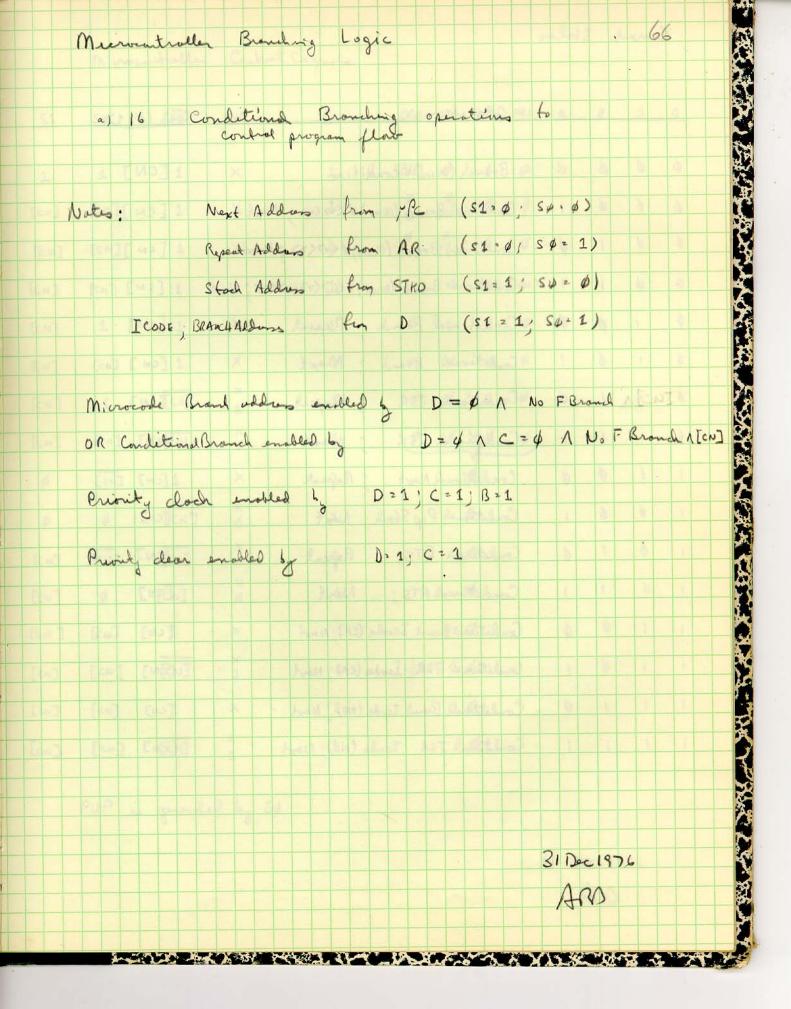




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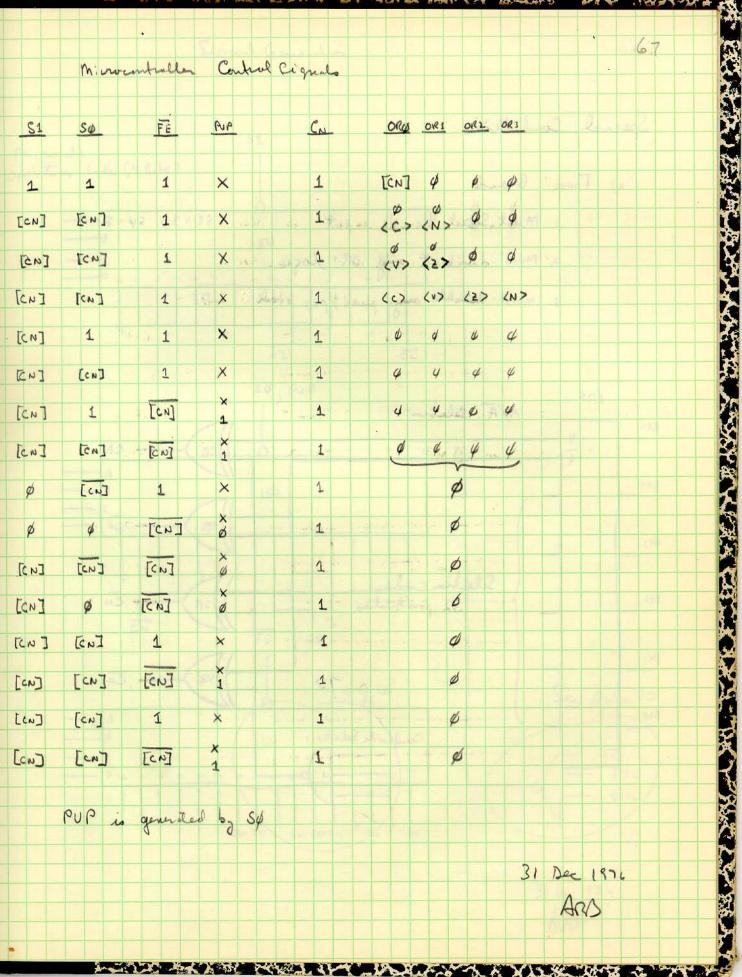
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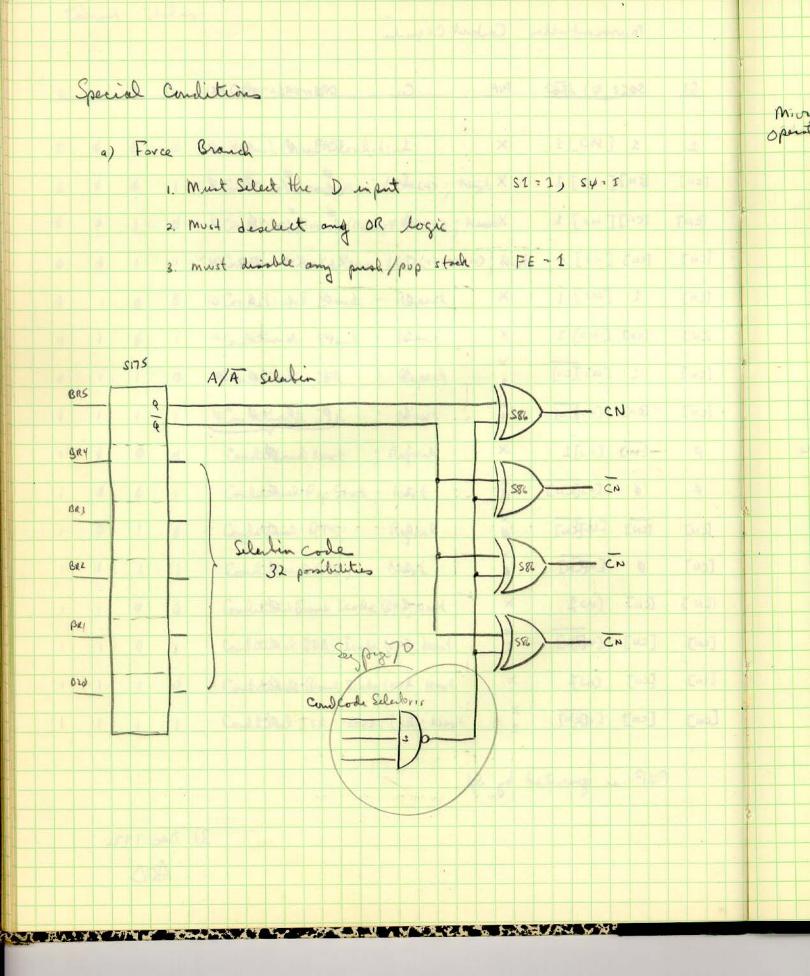


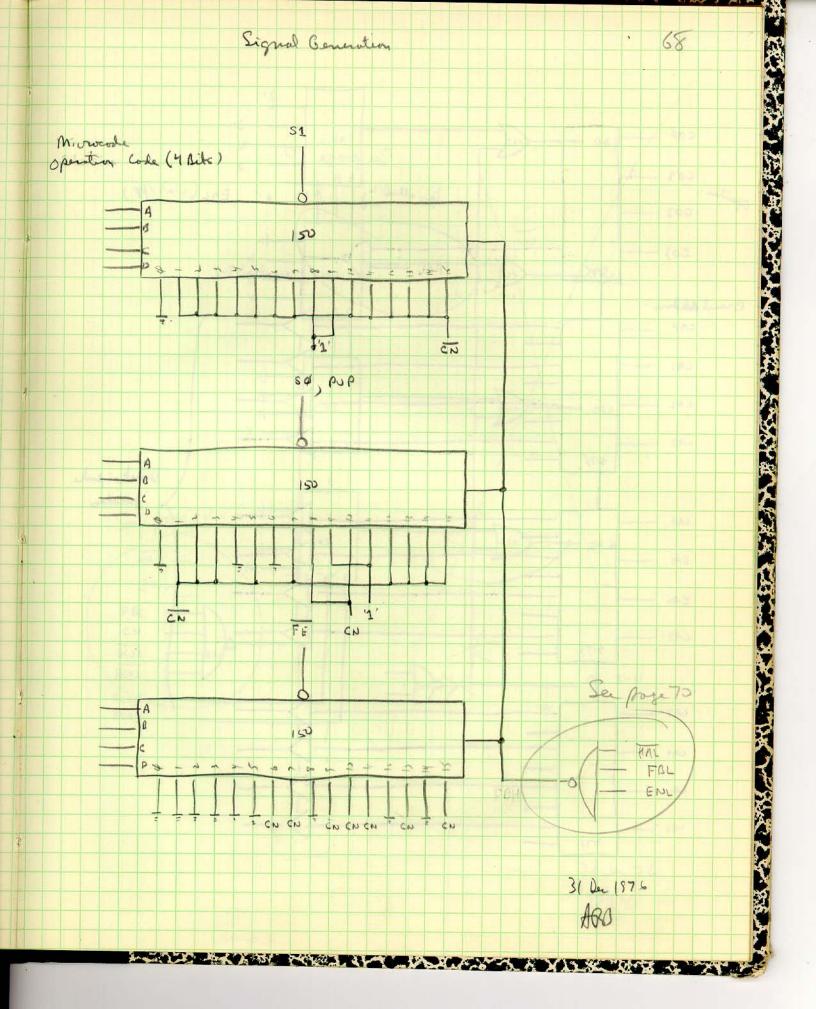
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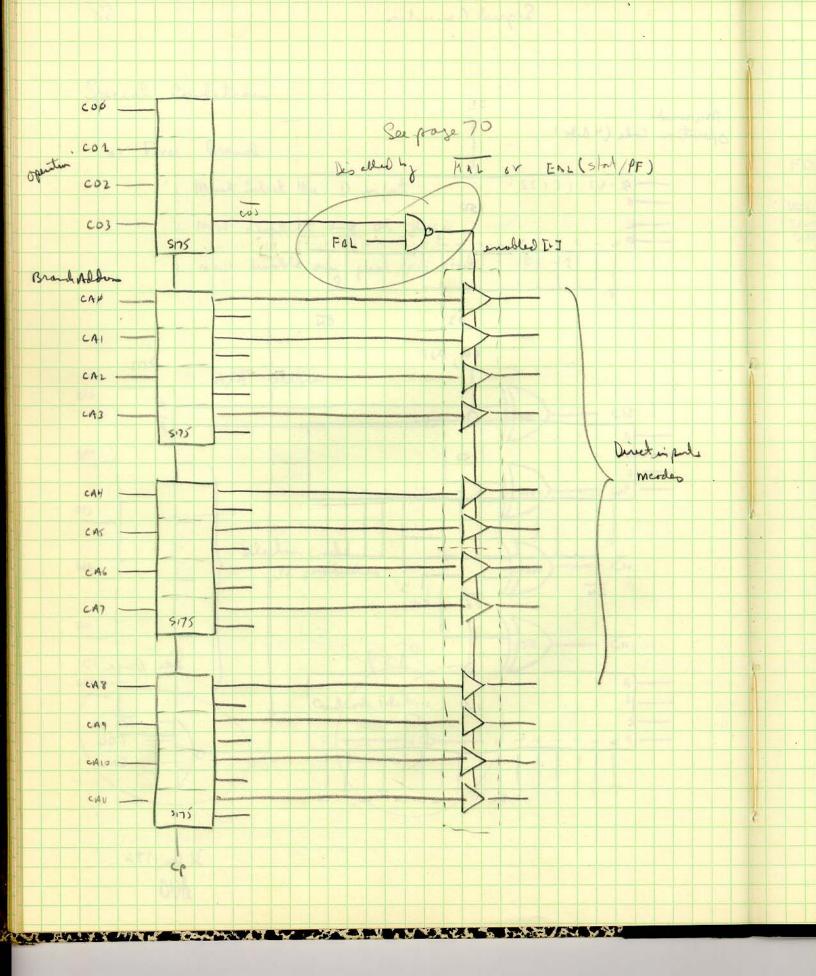
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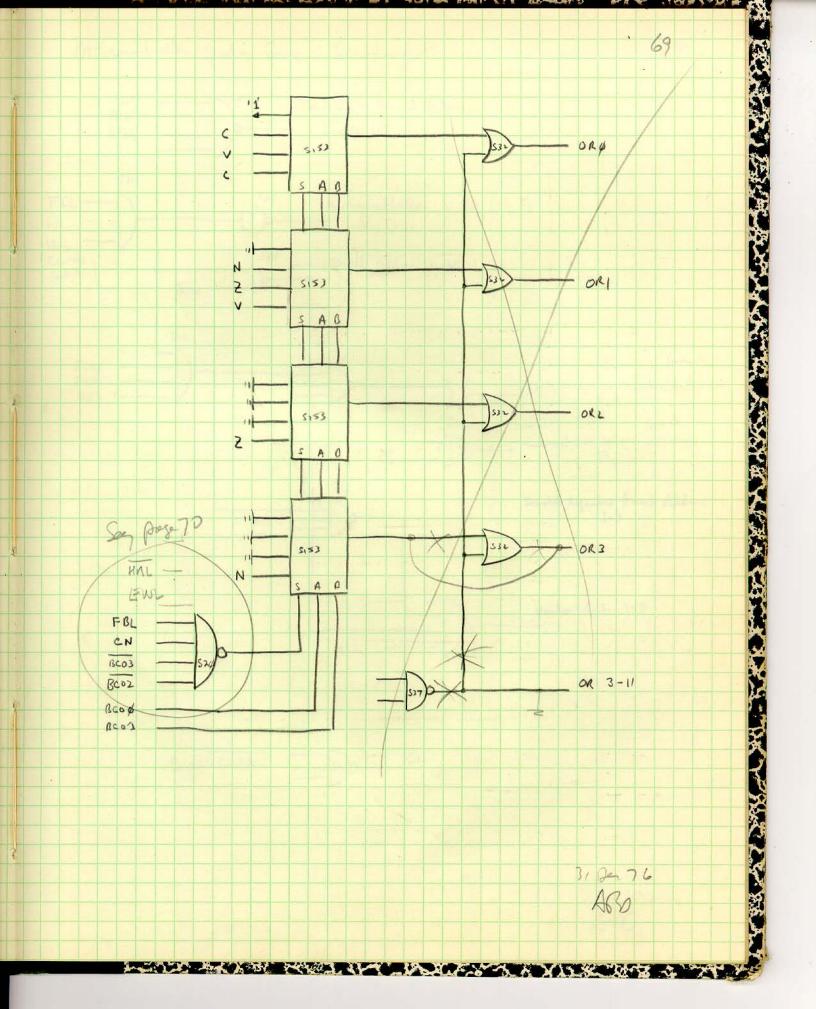


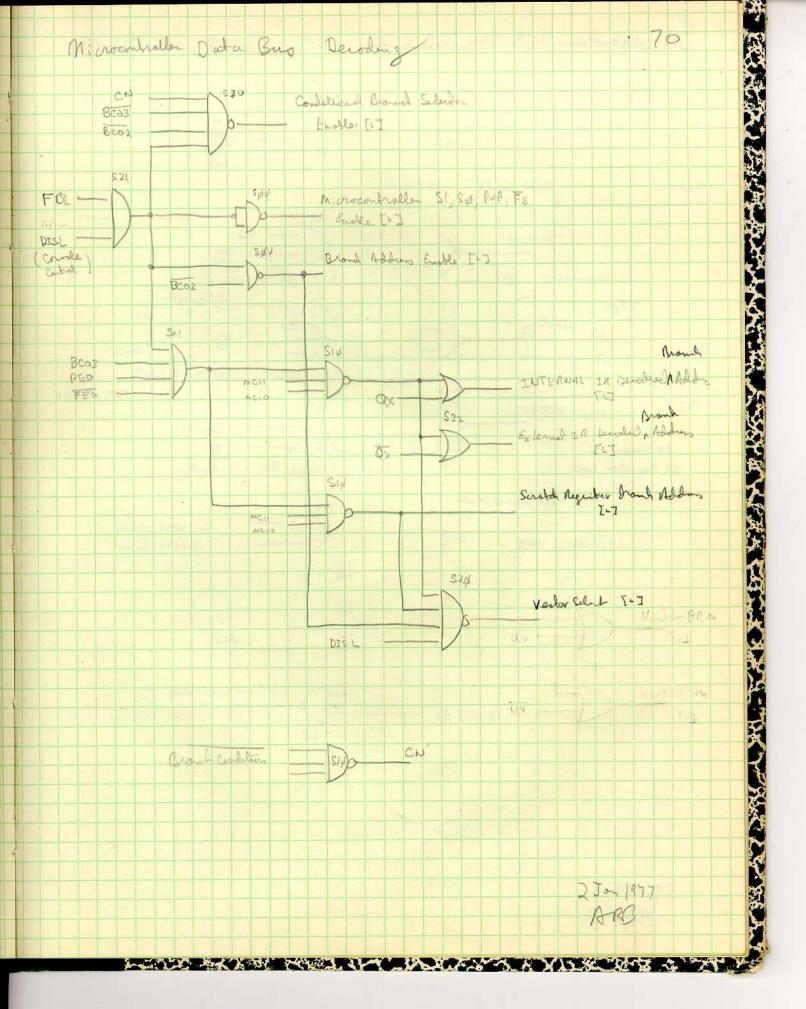
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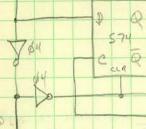


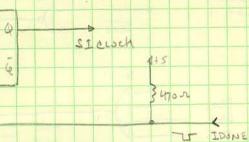






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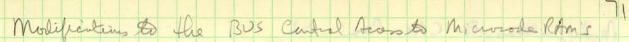
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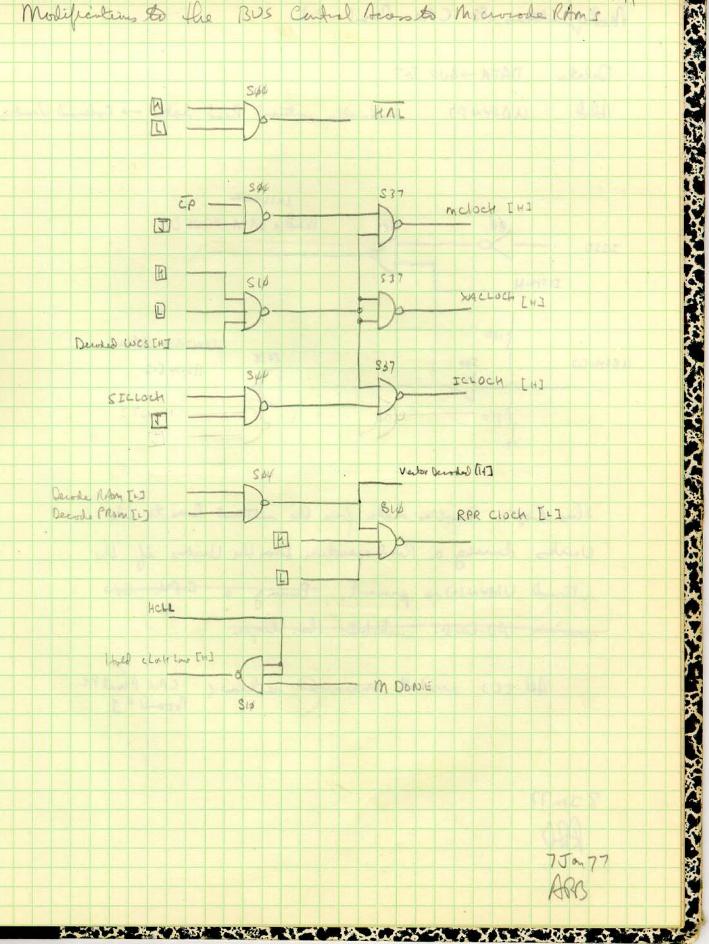
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Modefications to CPU Pond #1

