

PERKIN-ELMER

**MODEL 3205 SYSTEM
SCHEMATIC AND ASSEMBLY DRAWINGS MANUAL**

USE WITH 47-057 AND 47-058

47-068 R00

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THE PERKIN-ELMER CORPORATION, DATA SYSTEMS GROUP
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PREFACE

THIS MANUAL PROVIDES THE FUNCTIONAL SCHEMATIC, ASSEMBLY AND INFORMATION DRAWINGS FOR THE MODEL 3205 SYSTEM. THESE DRAWINGS ARE USED IN CONJUNCTION WITH THE INSTALLATION AND CONFIGURATION MANUAL, PUBLICATION NUMBER 47-057, AND THE THEORY OF OPERATION MANUAL, PUBLICATION NUMBER 47-058, WHEN INSTALLING, OPERATING AND MAINTAINING A MODEL 3205 SYSTEM. THE DRAWINGS ARE ARRANGED BY CHASSIS OR FUNCTIONS, THAT IS: CENTRAL PROCESSING UNIT (CPU), INPUT/OUTPUT (I/O), CABINET, CABLES AND TERMINATORS, MEMORY, CONSOLE/LETTE AND MISCELLANEOUS.

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MEMORY

Expansion Functional Schematic Drawing	35-865	D08
Expansion Assembly Drawing	35-865	E03

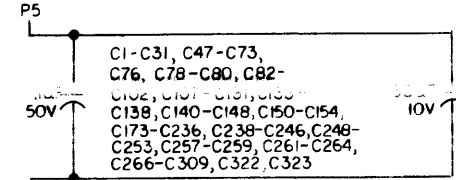
CONSOLETTTE

Functional Schematic Drawing	09-140	B08
Assembly Drawing	09-140	D03

MISCELLANEOUS

P5U Battery Back-up Expansion Information Drawing	02-745	M01 C12
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CABLE CONNECTOR MAP		BACK PANEL MAP		REVISIONS	
TERM. NO.	ROW	ROW	ROW	TERM. NO.	CONN.
29	CCLKBI			43	
28	P5R			42	
27	P5RA			41	
26	P5RB			40	
25	P5RC			39	
24	CLKRST0			38	
23	DEVSYS0			37	
22	WCSEN0	EXTCLK0		36	
21				35	
20	GND			34	
19	ME081	ME091		33	
18	ME101	ME111		32	
17	ME121	ME131		31	
16	ME141	ME151		30	
15	GND			29	
14	ME001	ME011		28	
13	ME021	ME031		27	
12	ME041	ME051		26	
11	ME061	ME071		25	
10	GND			24	
09	GND			23	
08	X081	X091		22	
07	X101	X111		21	
06	X121	X131		20	
05	X141	X151		19	
04	GND			18	
03	X001	X011		17	
02	X021	X031		16	
01	X041	X051		15	
00	X061	X071		14	
12		SQENI		13	
11	CSA111	GND		12	
10	CSA101	GND		11	
09	CSA091	GND		10	
08	CSA081	FC0		09	
07	CSA071	GND		08	
06	CSA061	GND		07	
05	CSA051	GND		06	
04	CSA041	P5		05	
03	CSA031	GND		04	
02	CSA021	GND		03	
01	CSA011	GND		02	
00	CSA001	GND		01	
24	GND	GND		00	
23	GND	CS631			
22	CS621	CS611			
21	CS601	CS591			
20	CS581	CS571			
19	CS561	GND			
18	GND	GND			
17	GND	CS551			
16	CS541	CS531			
15	CS521	CS511			
14	CS501	CS491			
13	CS481	GND			
12	GND	GND			
11	GND	CS471			
10	CS461	CS451			
09	CS441	CS431			
08	CS421	CS411			
07	CS401	GND			
06	GND	GND			
05	GND	CS391			
04	CS381	CS371			
03	CS361	CS351			
02	CS341	CS331			
01	CS321	WCSEN0			
00	GND	GND			
24	GND	GND			
23	GND	CS311			
22	CS301	CS291			
21	CS281	CS271			
20	CS261	CS251			
19	CS241	GND			
18	GND	GND			
17	GND	CS231			
16	CS221	CS211			
15	CS201	CS191			
14	CS181	CS171			
13	CS161	GND			
12	GND	GND			
11	GND	CS151			
10	CS141	CS131			
09	CS121	CS111			
08	CS101	CS091			
07	CS081	GND			
06	GND	GND			
05	GND	CS071			
04	CS061	CS051			
03	CS041	CS031			
02	CS021	CS011			
01	CS001	WCSEN0			
00	GND	GND			



C33-C35
C37-C46
C156-C171
C310-C321

FROM	TO	MNEMONIC	SHT
EI-3	NC	RI91	15
EI-1	EI-2	VIII	15

STRAPPING TABLE

PART NO.	DESCRIPTION	TITLE
35-864 F00	AS SHOWN LESS COMPONENTS MARKED WITH AN ASTERISK "*" ON SHEET 6. ALSO SEE SHT 7.	0.5 MB
35-864 F01-F04	AS SHOWN. ALSO SEE SHT 7.	1.0 MB

THE REVISION LEVEL OF THIS SHEET IS CONSIDERED TO BE THE REVISION LEVEL OF THE DOCUMENT.

REVISION	NO.	DESCRIPTION	DATE
1	1	35-864 F04	RO1
2	2	35-864 F03	RO4
3	3	35-864 F02	RO3
4	4	35-864 F01	RO2
5	5	35-864 F00	RO1

REVISIONS
REVISED SHTS 1, 3, 11, 14, 16, 18, 20, 22, 24, 25, 26, 28, 33 & 34.
KR [Signature] 5555 MS 11-14-83 RO1
REVISED SHTS 1, 8, 10, 14, 16, 20, 22, 25, 26, 28, 30 & 34.
KR [Signature] 5560 MS 11-25-83 RO2 X
ADDED "P5" TO CONN MAP LOCATION 10+5. REVISED SHTS 1, 19, 15, 16, 20, 23, 26, 28 & 34.
KR [Signature] 5573 MS 12-14-83 RO3 X
REVISED SHTS 1, 7, 8, 13, 14, 18, 20, 23, 24, 25, 26, 28, 29, 32 & 34.
KR [Signature] 5606 M 1-13-84 RO4
REVISED SHTS 1, 3, 8, 9, 16, 18, 19, 24, 25, 26, 32 & 34.
KR [Signature] 5614 MS 1-16-84 RO5

PRE PRODUCTION	INIT DATE
PRODUCTION	1/23/84

AREA G9, "FOO (0.5 MB)" WAS "FOI (0.5 MB)" & "FOI (1 MB)" WAS "FOO (1 MB)". ADDED FO2, FO3 & FO4 TO TABLES. REVISED SHTS 1, 6 & 7.

KR [Signature] 5619 MS 1-26-84 RO6 X
REVISED SHTS 1, 3, 12, 18, 19, 20, 23, 24, 26 & 34.
KR [Signature] 5630 MS 2-23-84 RO7
STRAPPING TABLE EI-3 WAS EI-2, EI-2 WAS EI-3 REVISED SHT 15.
HH [Signature] 5641 MS 3-13-84 RO8 X
REVISED 1, 8, 16, 24, 34.
HH [Signature] 5657 MS 4-4-84 RO9 X

UNLESS OTHERWISE SPECIFIED	
SCALE:	TOLERANCE:
DIMENSIONS ARE IN INCHES	.XXX ± .005 .X ± .03 .XX ± .02 ANGLES ± 1°

NAME	TITLE	DATE
B. LUSK	E. JOHNSON	DES / DFT 10-26-83
R. CERO		SUPV
		CHK
S. SHRIVER / J. HODGE		ENG
R. DELAHANTY		MGR
R. BARKER		QC

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Oceanport, N.J. 07757

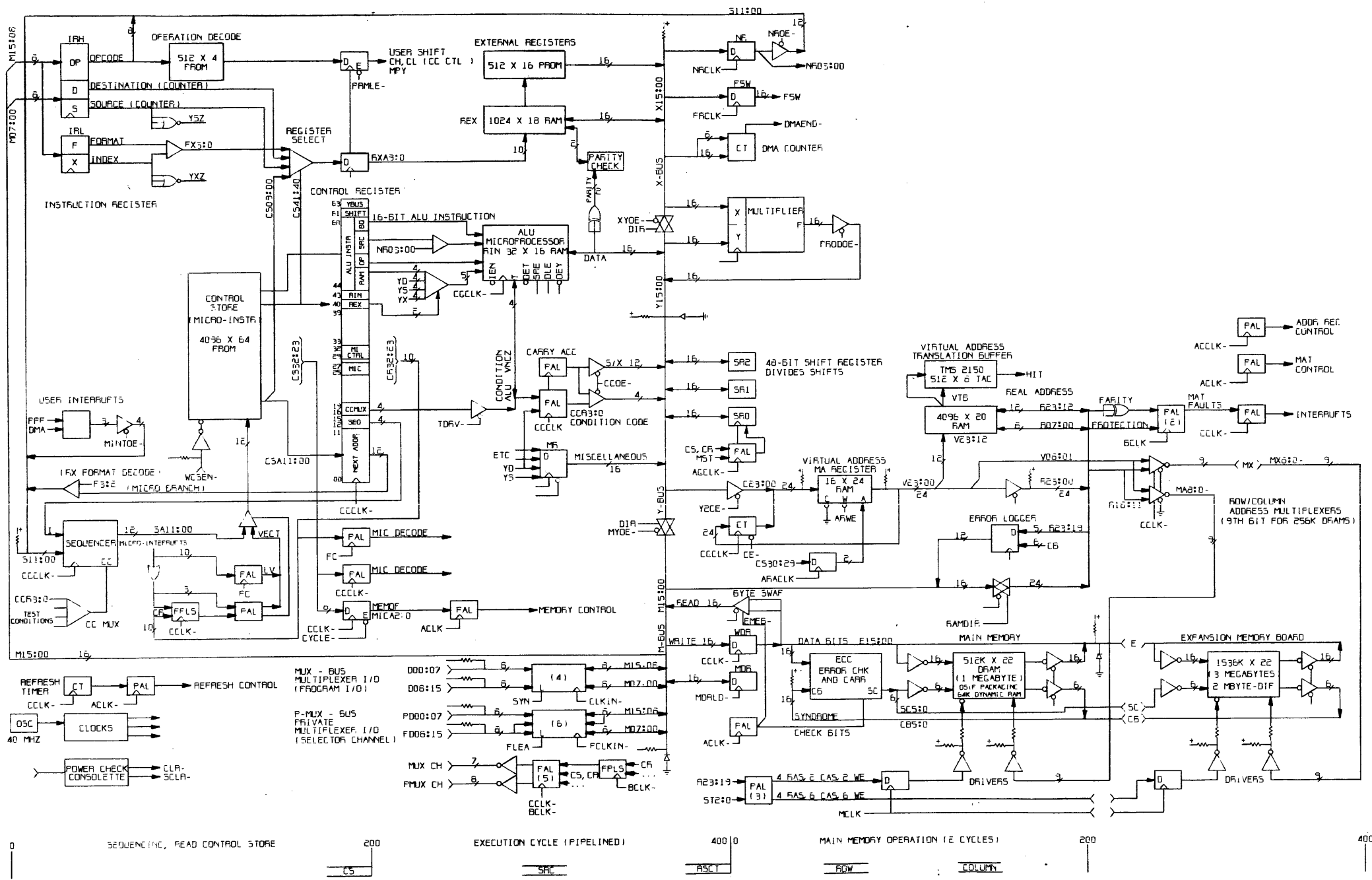
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TITLE	SHEET
CPU BD	1-34
TASK 03076	SHT
DWG 35-864 RO1	D08

REVISION	SHEET	NO.	DESCRIPTION
1	1	1	35-864 F04
2	2	2	35-864 F03
3	3	3	35-864 F02
4	4	4	35-864 F01
5	5	5	35-864 F00

USED IN MANUAL; 47-066

REVISIONS



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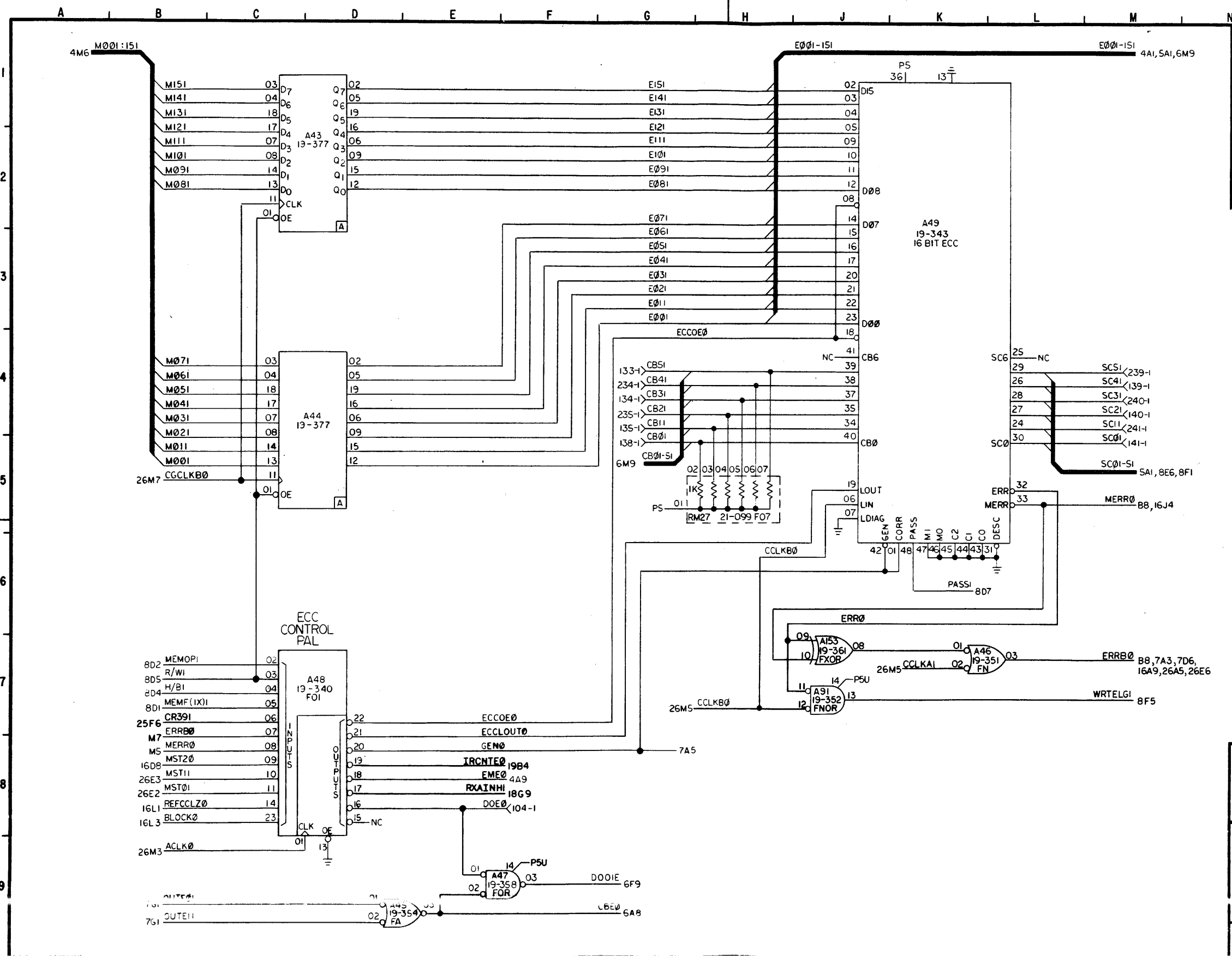
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TITLE
 CPU
 BLOCK DIAGRAM

DRAFTER V. TAHAMONT	TASK 03076	SHT 2-34
DATE 1-12-84	DWG 35-864	D08

NOTES

BRUNING 44-131-40579-2



REVISIONS					
AREA NB, REMOVED CROSS REFS "11K5 & 16L2" FROM MNEMONIC ERRB0.					
KR	KR	5535	MS	11-14-83	RO1 X
AREA C7, A48 PIN 06 WAS "NC", PIN 07 SIGNAL WAS "ERR0" W/CROSS REF "MS". AREA K7, A47 06 WAS CONNECTED TO A46 01 & 02. A46 03 WAS CONNECTED TO "WRTEL0". ADDED GATE A53 09.					
KR	KR	5614	MS	1-26-84	RO2
AREA J7, A91 WAS A47(19-358), WRTEL0 WAS WRTEL0					
KR	J7	5630	MS	2-23-84	RO3 X

NOTES

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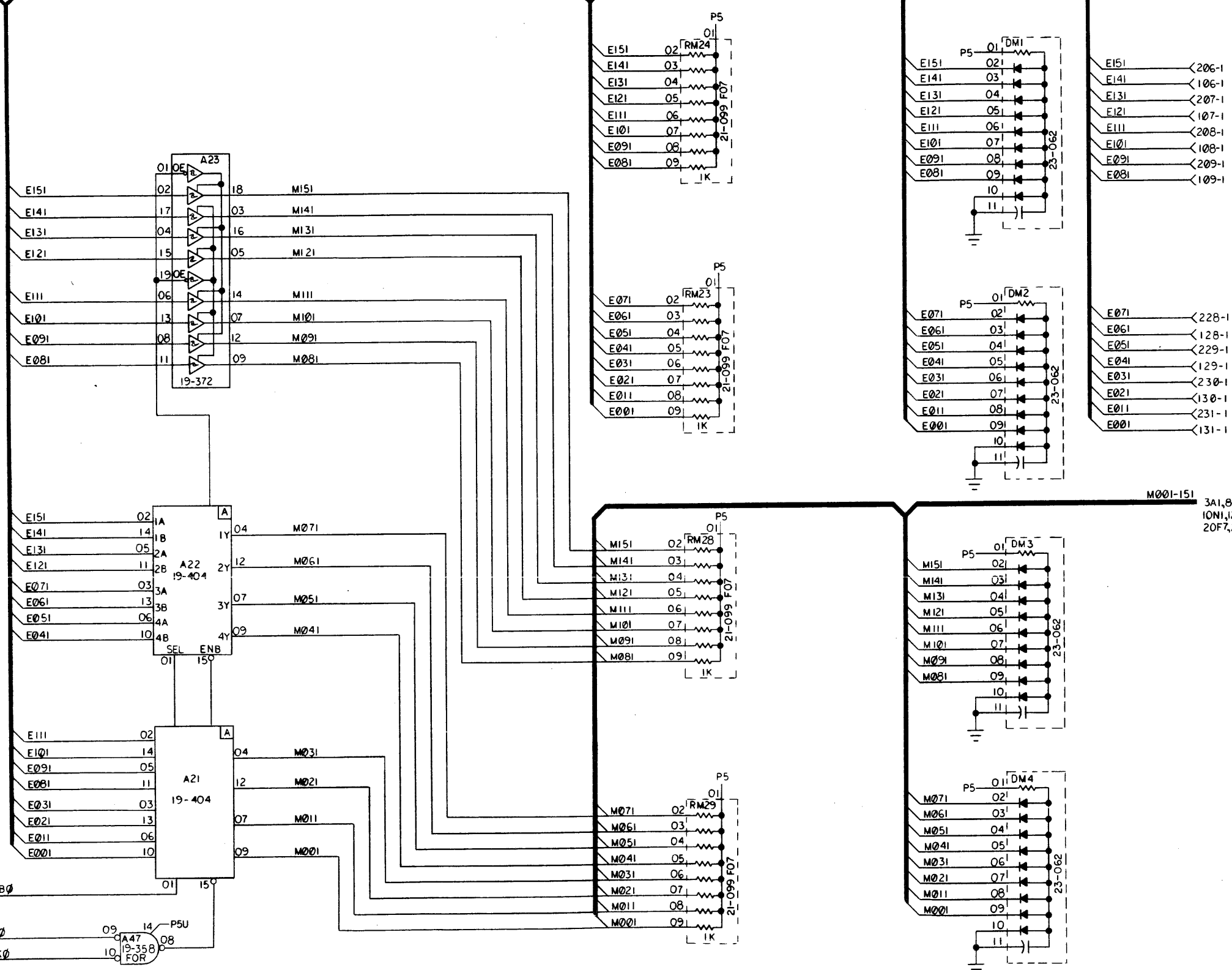
TITLE CPU
 M-BUS, E-BUS, ECC

DRAFTER	D. BOYD	
DATE	TASK 03076	SHT
10-22-83	DWG 35-864 R03	D08 3-34

DRAWING 44-131 40579-1

REVISIONS

3M1 E001-151



M001-151 3A1,8K1, 9M8,9H8, 10N1,12G9,19A1,19A7, 20F7,27A1

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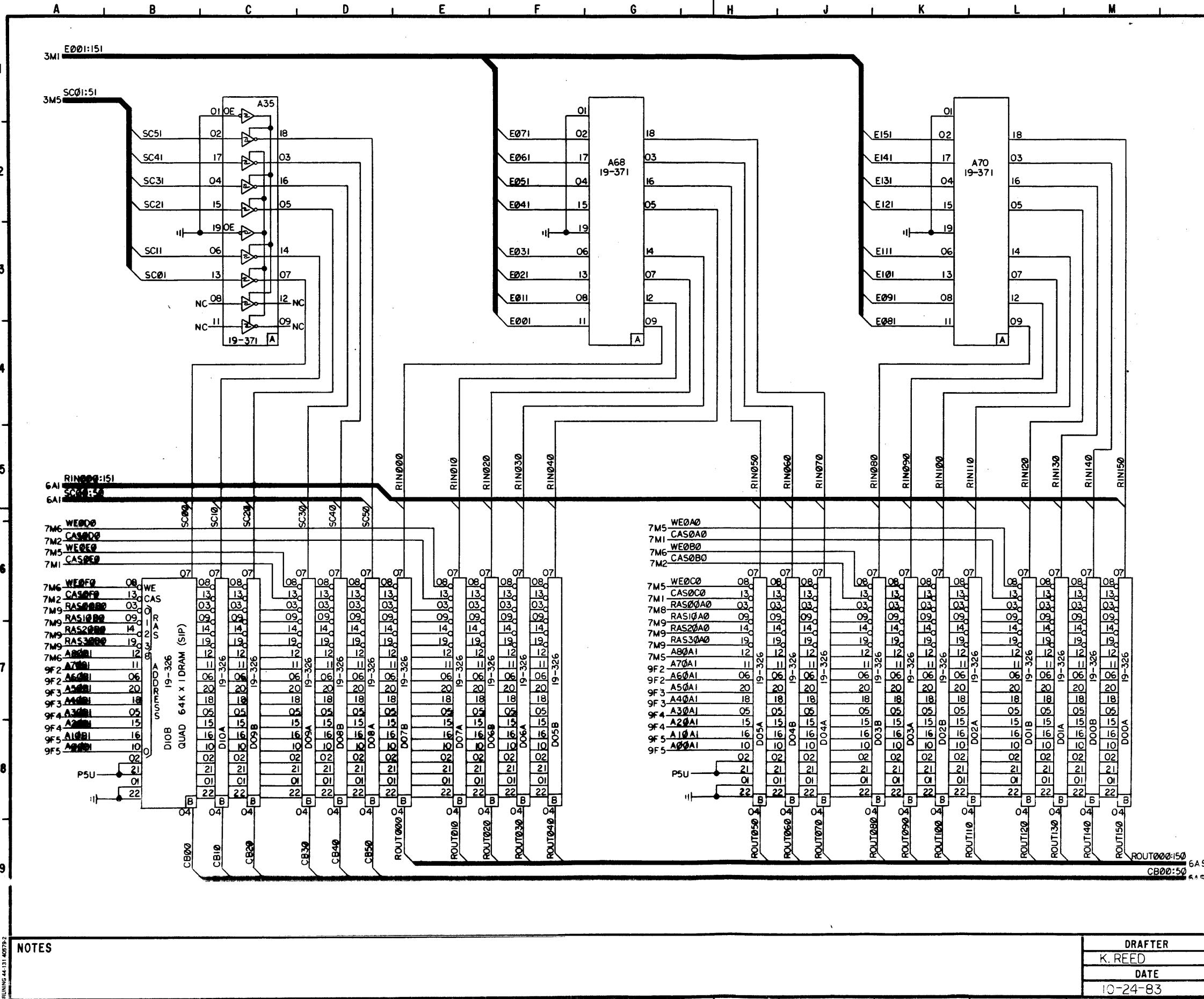
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TITLE CPU
M-BUS, E-BUS, TERMINATION

NOTES

DRAFTER		TASK 03076		SHT	
WM. KITZHOFFER		DWG 35-864		4-34	
DATE		D08			
10-20-83					

DRAWING 44131 405782



REVISIONS

x

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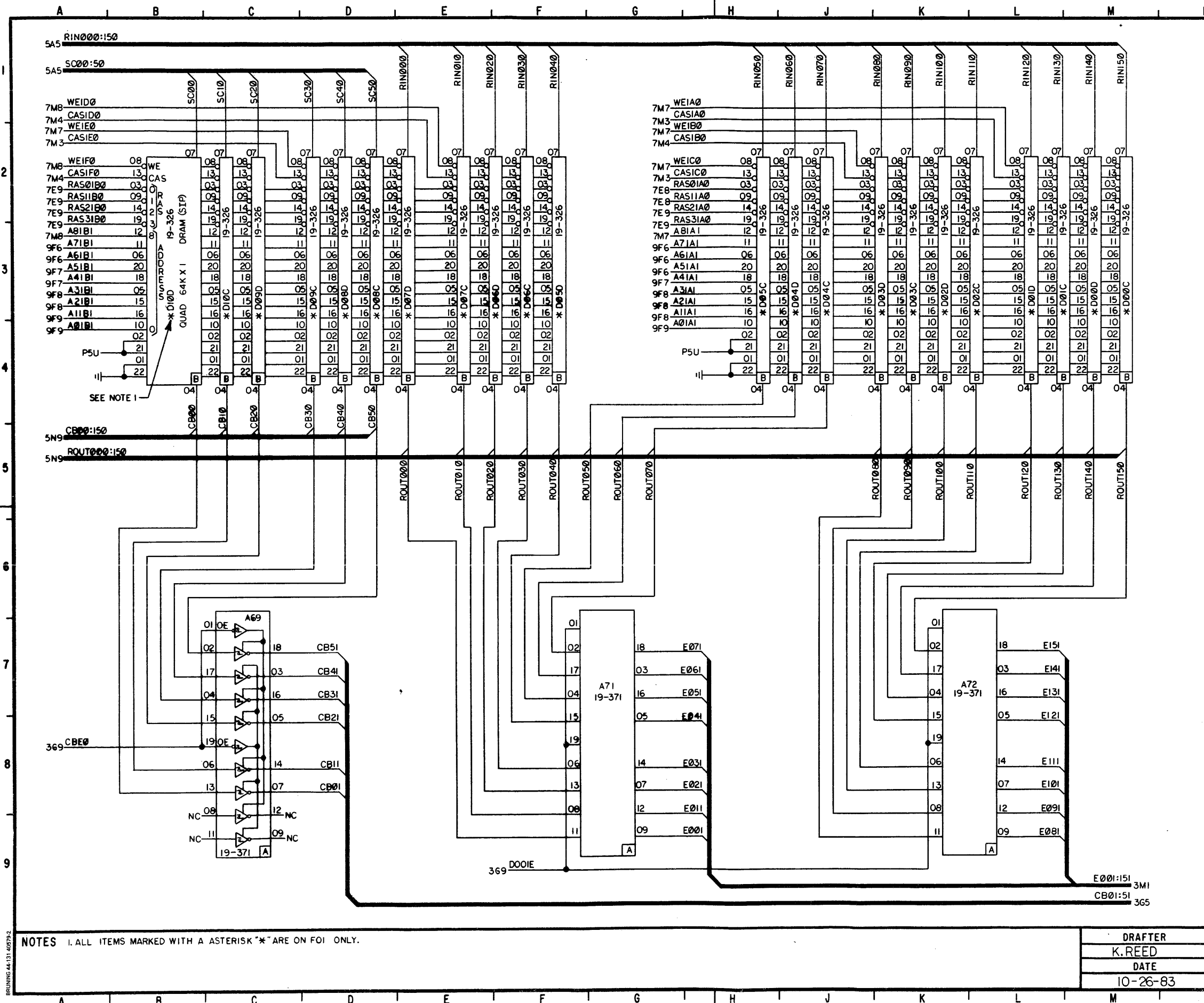
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TITLE CPU
DRAM MEMORY ARRAY

DRAFTER		TASK 03076	SHT
K. REED			
DATE		DWG 35-864	DO8
10-24-83			

NOTES

BRUNING 44.131 40579-2



REVISIONS				
AREA D 9, "FOI ONLY" WAS "FOO ONLY"				
KR 811	5619	MS	1-26-84	ROI X

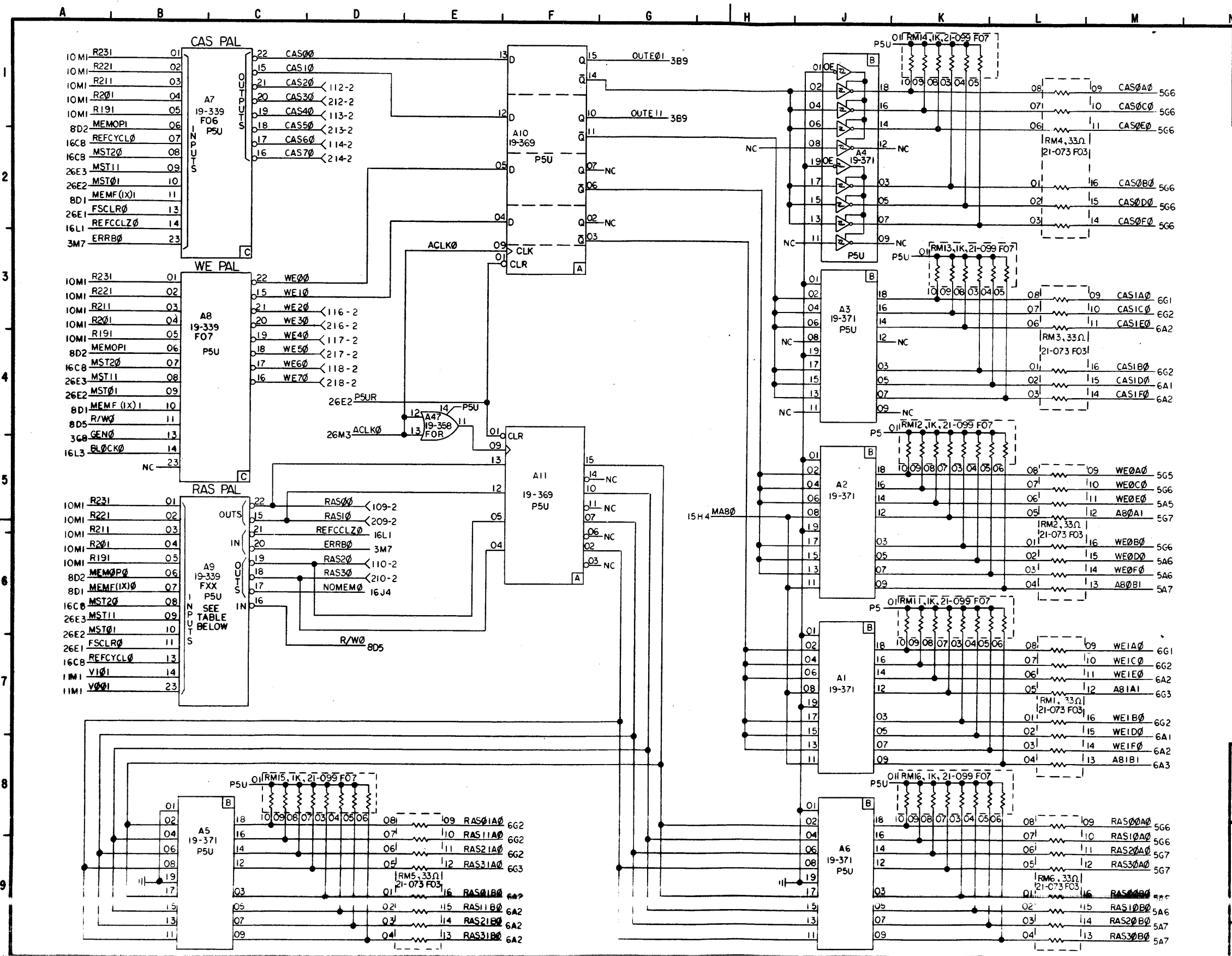
NOTES 1. ALL ITEMS MARKED WITH A ASTERISK "*" ARE ON FOI ONLY.

DRAFTER		TITLE	
K. REED		CPU	
DATE		DRAM MEMORY ARRAY	
10-26-83		TASK 03076	SHT
		DWG 35-864 ROI	6-34
		D08	

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BRUNING 44-131 40279-2



REVISIONS				
AREA C6, A9 PIN 16 WAS "NC".				
KR	KR	5606 M	1-12-84	RO1
REVISED ENTIRE VARI TABLE, F00 WAS SPECIFIED AS "1MB" & F01 AS "0.5MB".				
KR	01	5619 MS	1-26-84	RO2 X

NOTES

VARIATION TABLE	DESCRIPTION	0.5 MB	1.0 MB	1.0 MB (FOR 2 MB PROC)	1.0 MB (FOR 3 MB PROC)	1.0 MB (FOR 4 MB PROC)
IC A9	19-339 F01	19-339 F02	19-339 F03	19-339 F04	19-339 F05	
PART NO.	35-864 F00	35-864 F01	35-864 F02	35-864 F03	35-864 F04	

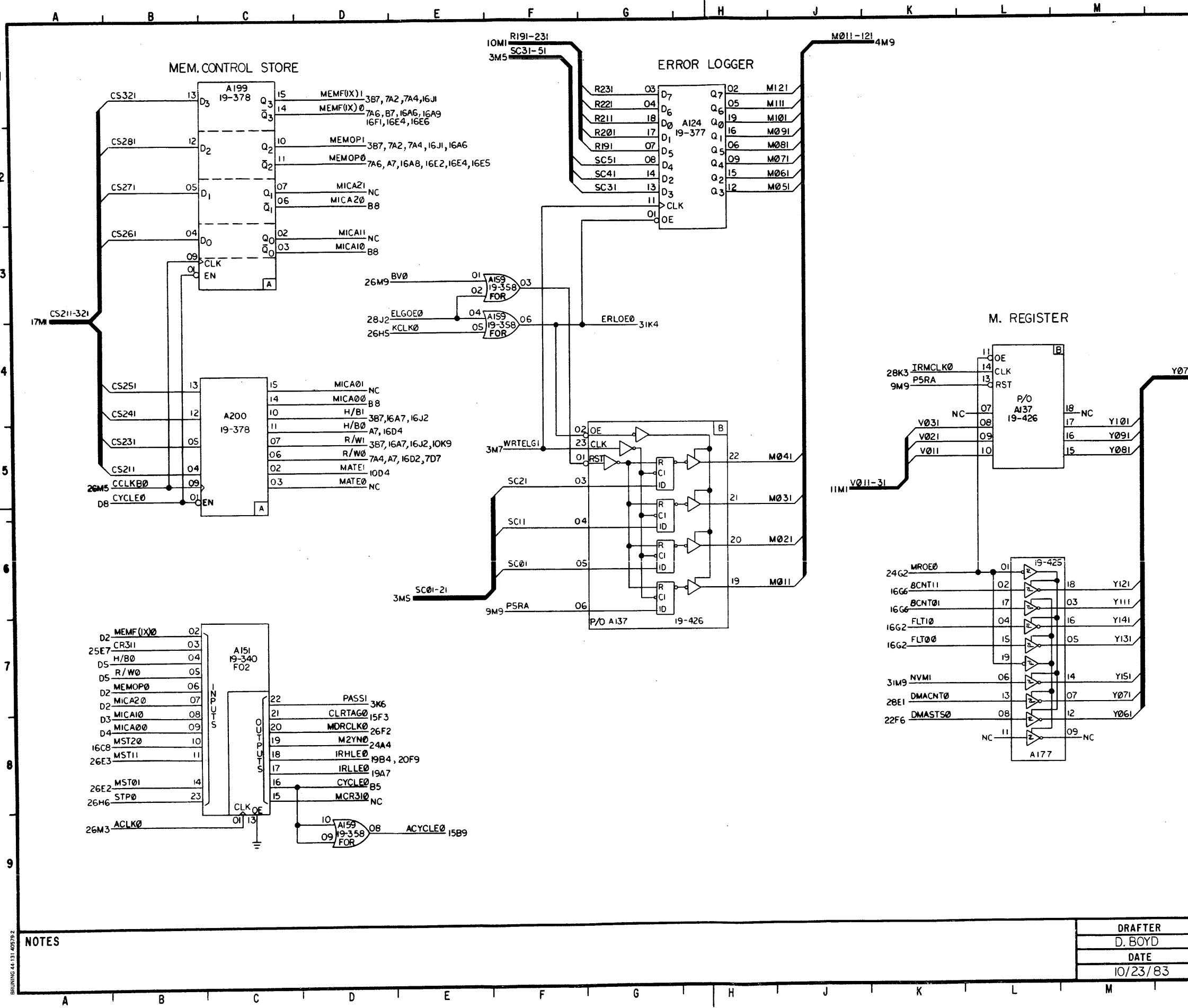
DRAFTER		SHT	
WM KITZHOFFER		7-34	
DATE		TASK	
10-22-83		03076	
DWG		D08	
35-864 R02			

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TITLE CPU
 BIT 8 DRAM ADDRESS, WE, RAS, CAS GENERATOR

DRAWING 44-131 40079-2



REVISIONS					
AREA K4, A137 PIN 14, WAS "IRHLE0" WITH CROSS REF "DB". AREA DB, DELETED CROSS REF "J5" FROM IRHLE0. AREA ES, ADDED CROSS REF "JOK9" TO RIWI. AREA L7, A177 PINS 08, 12 WERE N.C.					
KR	KP	5560	MS	11-23-83	RO1 X
AREA D5, ADDED CROSS REF "7D7" TO SIGNAL R/W0.					
KR	KR	5606	M	1-12-83	RO2
AREA D5, DELETED CROSS REF "9H4" FROM SIGNAL H/B1.					
KR		5614	MS	1-16-84	RO3 X
AREA K6 SIGNAL BCNT01 WAS ACNT01. CROSS REF WAS 1691, SIGNAL BCNT01 WAS ACNT01. CROSS REF WAS 1691					
HH	81	5657	MS	4-4-84	RO4 X

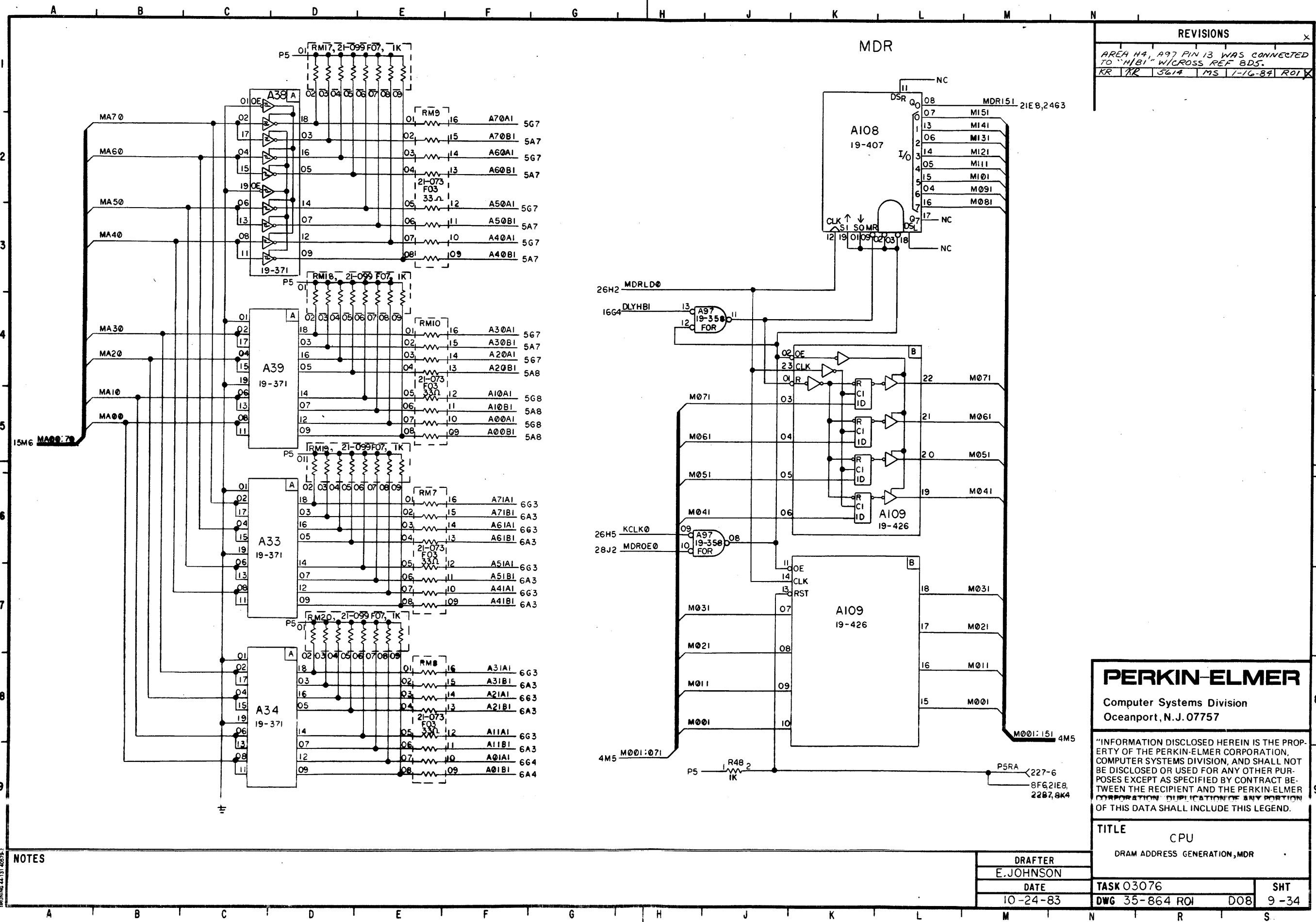
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TITLE	CPU	
	MEM CONTROL STORE, ERROR LOGGER, M. REGISTER	
DRAFTER	D. BOYD	
DATE	10/23/83	
TASK	03076	SHT
DWG	35-864 RC1	8-34
	D08	

NOTES

BRUNING 44 131 402752



REVISIONS				
AREA H4, A97 PIN 13 WAS CONNECTED TO "H1BI" WICROSS REF BDS.				
KR	RR	3614	MS	1-16-84 RO1

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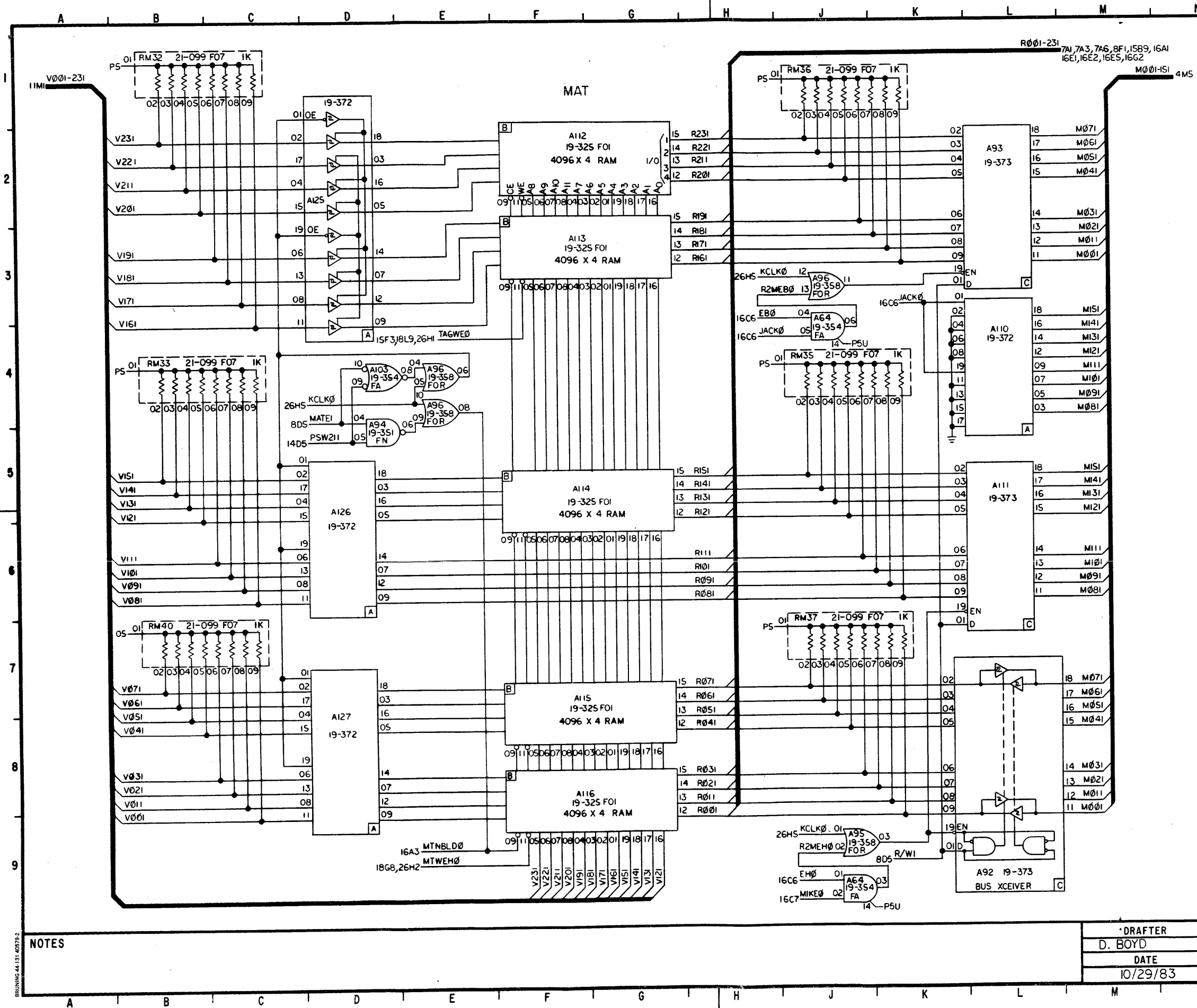
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TITLE
 CPU
 DRAM ADDRESS GENERATION, MDR

DRAFTER E. JOHNSON	TASK 03076	SHT
DATE 10-24-83	DWG 35-864 RO1	D08 9-34

NOTES

IRVING 44-131-4079-2



REVISIONS

1	AREA K9, A92 PIN 01 WAS "R2MDIR0" WITH CROSS REF 16C6.
2	KR KR 5560 MS 11-25-83 RO1 X

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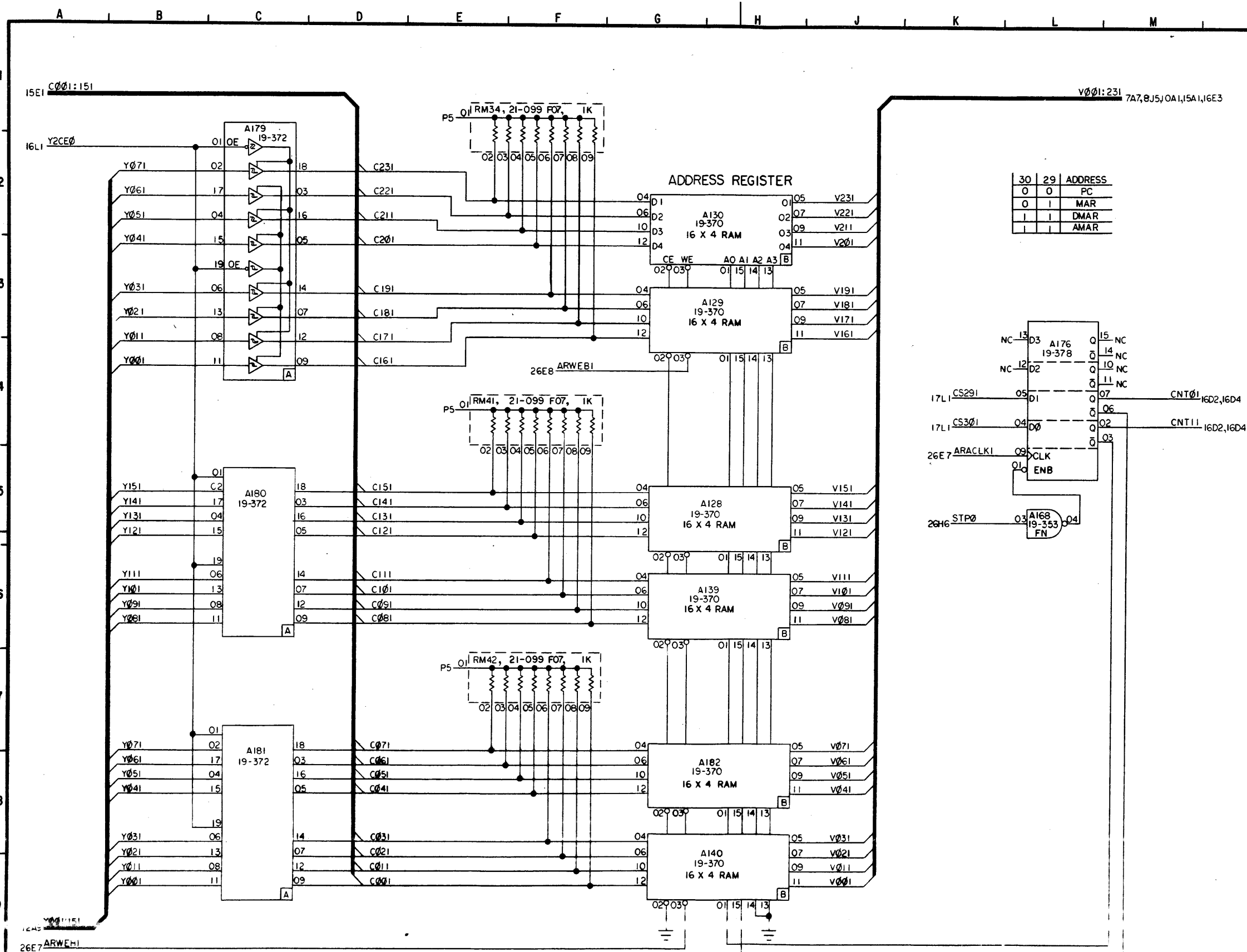
TITLE CPU
 MAT
 V-BUS, R-BUS, M-BUS, MAT

DRAFTER
 D. BOYD
DATE
 10/29/83

TASK 03076
DWG 35-864 RO1
SHT 10-34

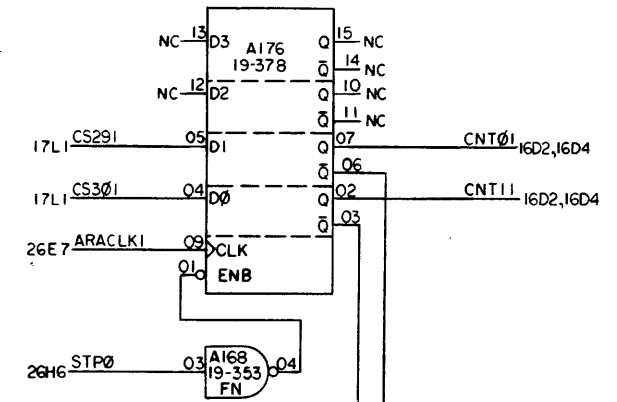
NOTES

BRUNING 44-131-40579-2



REVISIONS					
AREA K5, A168 PIN 03 WAS "ERRB0" WITH CROSS REF "3M7"					
KR	TK	SS55	MS	11-14-83	RO1 X

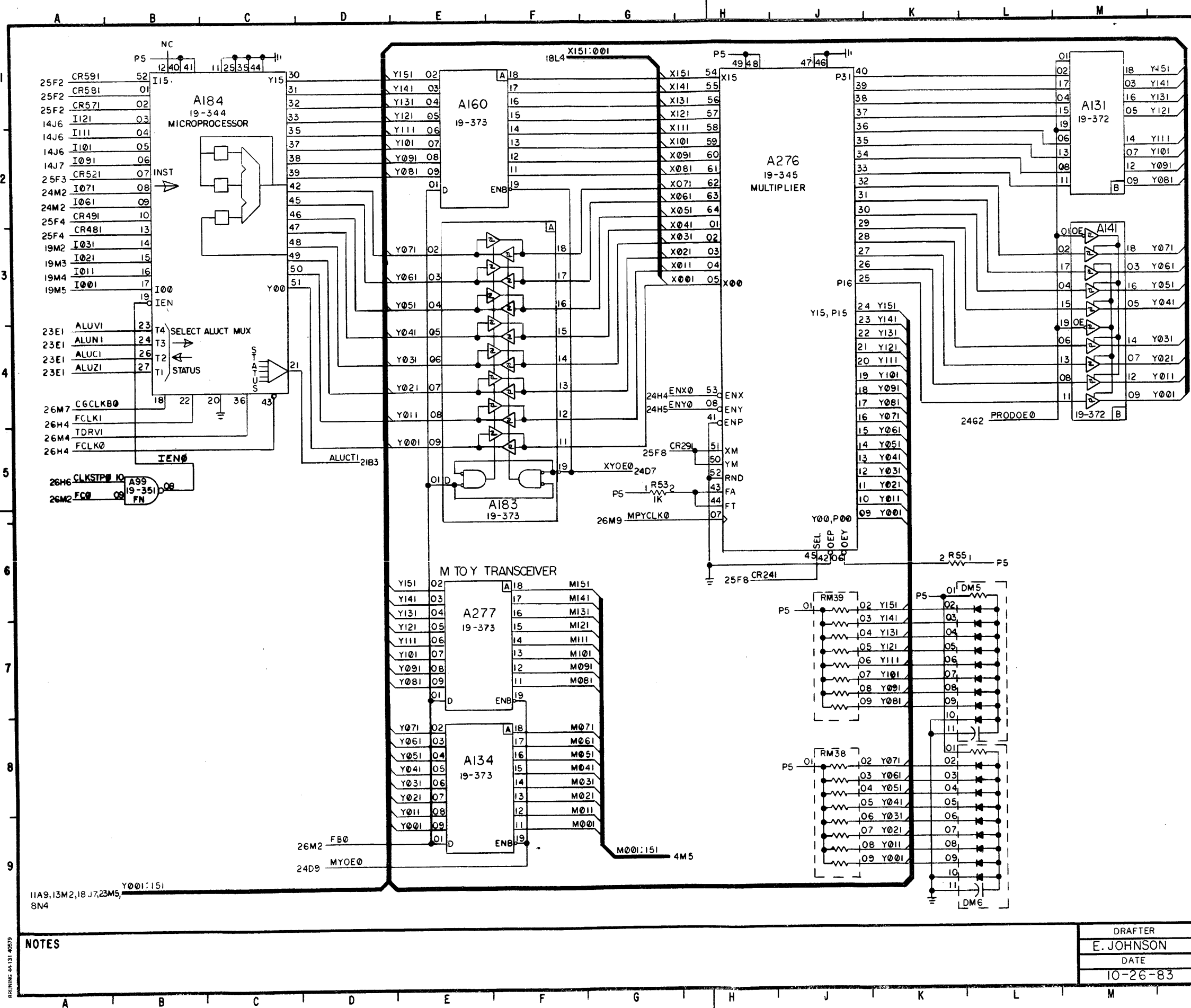
30	29	ADDRESS
0	0	PC
0	1	MAR
1	1	DMAR
1	1	AMAR



NOTES

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TITLE	CPU ADDRESS REGISTER MAR, AMAR, DMAR, PC
DRAFTER	WM. KITZHOFFER
DATE	10-25-83
TASK	03076
DWG	35-864 RO1
SHT	11-34

DRAWING 44-131-40578-2



REVISIONS	
AREA B3 A184 PIN 19 WAS CONNECTED TO HCLK1 W/ CROSS REF 26H5. AREA B5 ADDED GATE A99-08.	X
KR 8) 5630 MS 2-23-84 ROI	X

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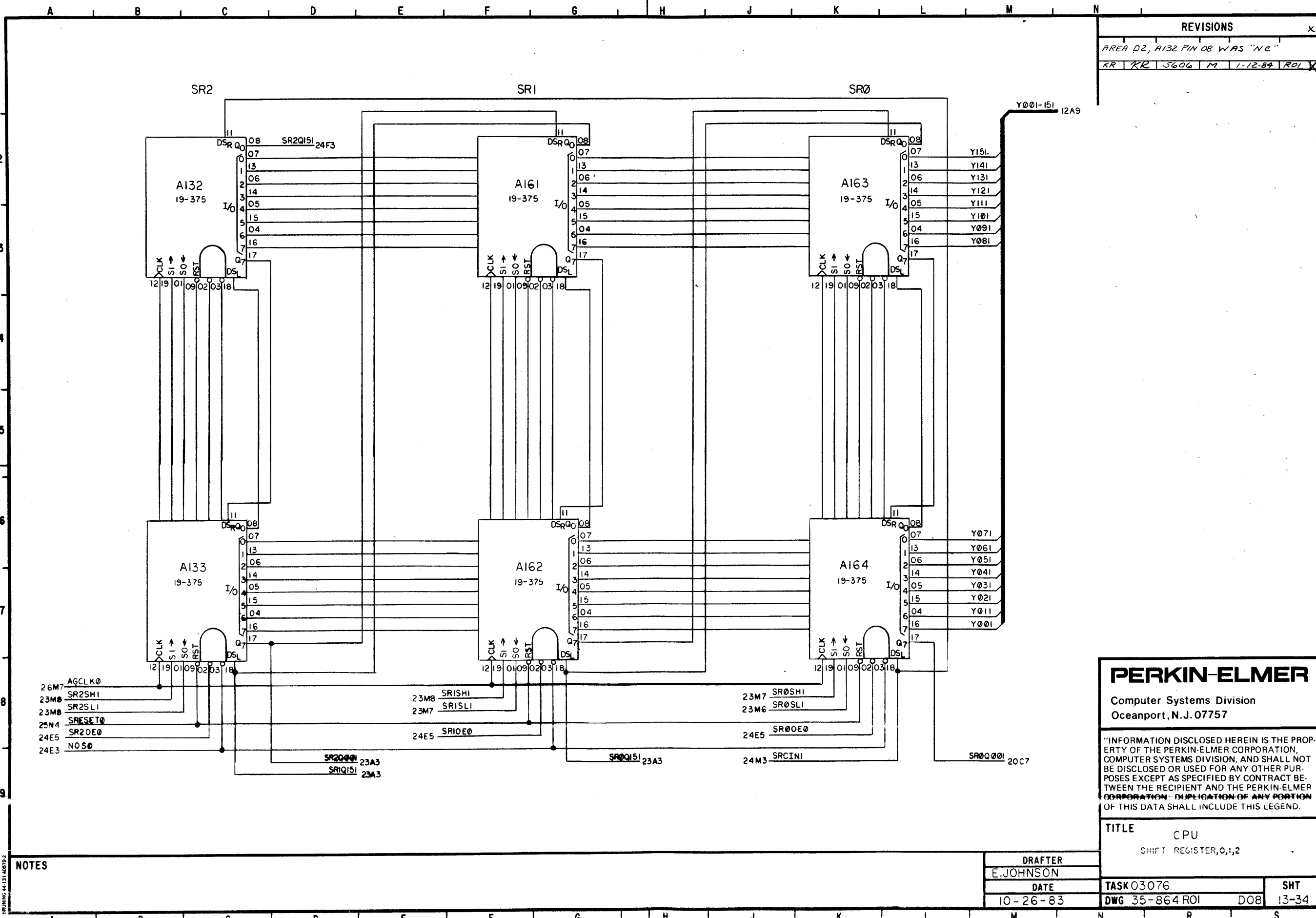
TITLE CPU
 ALU, MULTIPLIER
 MZY TRANSCEIVER

DRAFTER E. JOHNSON
 DATE 10-26-83
 TASK 03076
 DWG 35-864 ROI D08
 SHT 12-34

NOTES

11A9, 13M2, 18J7, 23M5, 8N4

BRUNING 44-131-40979



REVISIONS				
AREA D2, A132 PIN 08 WAS "NC"				
KR	KR	5606	M	1-12-84 ROI X

26M7 AGCLK0
 23M8 SR2SHI
 23M8 SR2SLI
 25N4 SRESET0
 24E5 SR2OE0
 24E3 NOS0
 23M8 SR1SHI
 23M7 SR1SLI
 24E5 SR1OE0
 23M7 SR0SHI
 23M6 SR0SLI
 24E5 SR0OE0
 24M3 SRCINI
 SR2Q01 23A3
 SR1Q151 23A3
 SR0Q01 20C7

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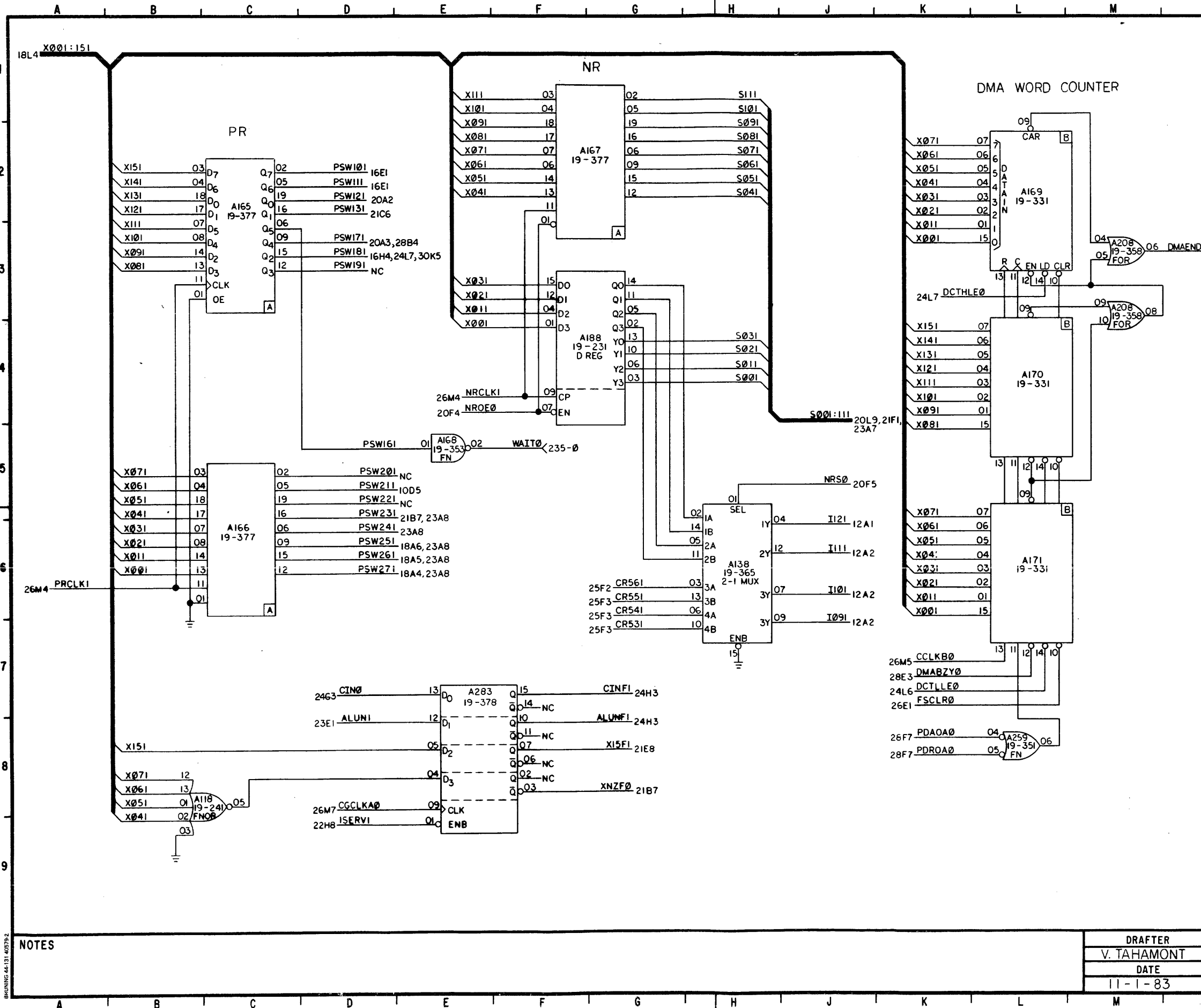
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TITLE CPU
 SHIFT REGISTER, 0,1,2

NOTES

DRAFTER	E. JOHNSON
DATE	10-26-83
TASK	03076
DWG	35-864 ROI
SHT	13-34

DRAWING 44-131-40792



REVISIONS					
AREA D3, ADDED CROSS REF "28B4" TO MNEMONIC PSW171.					
KR	KR	5555	MS	11-14-83	RO1
AREA D2, A165 PIN 19 WAS N.C.					
KR	KR	5560	MS	11-25-83	RO2
AREA N3, REMOVED CROSS REF "20C2" FROM MNEMONIC "DI 9END0".					
KR	KR	5573	M	12-14-83	RO3
AREA E7, A283 PINS 13 & 15 WERE "NC".					
KR	KR	5606	M	1-12-84	RO4

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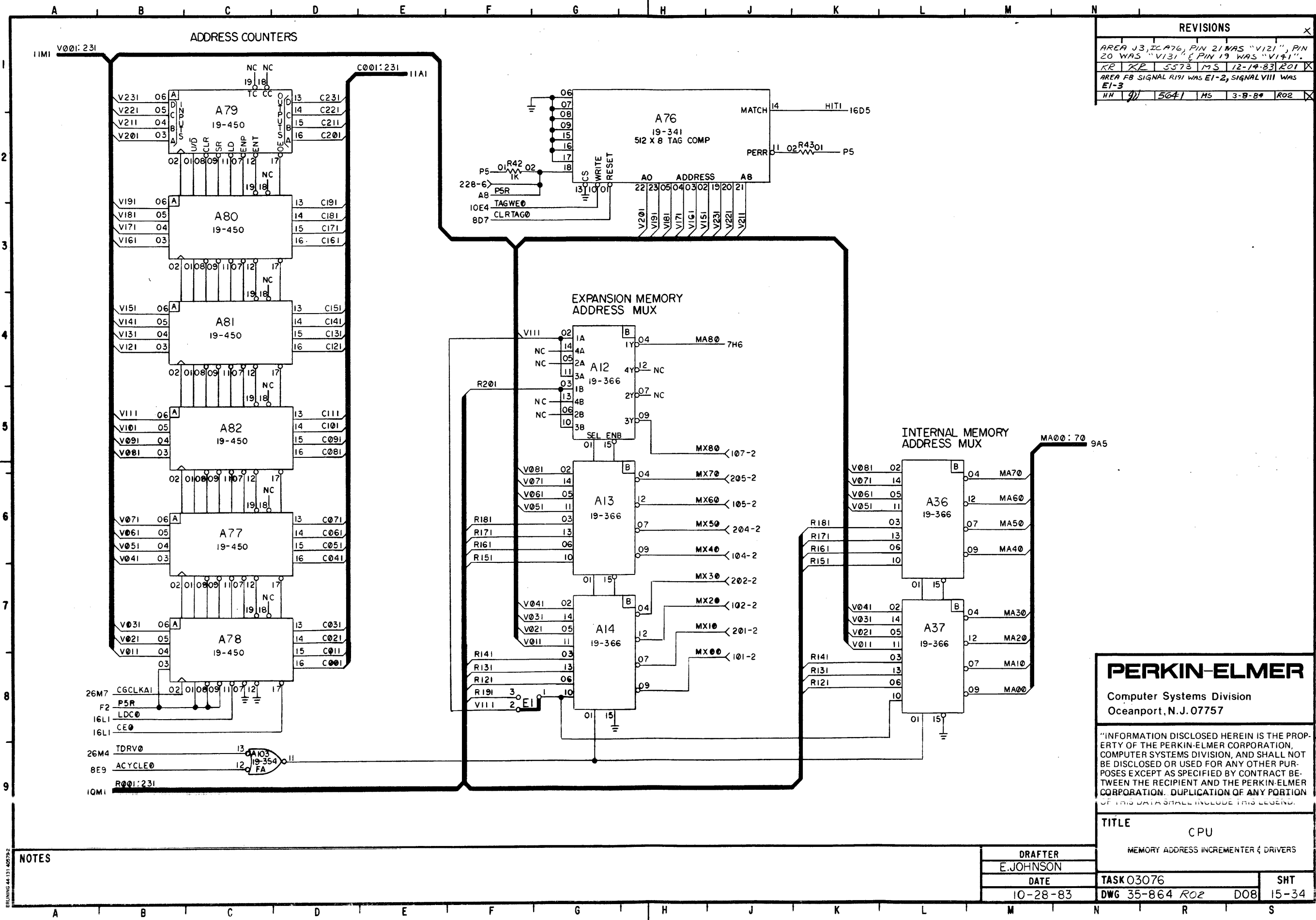
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TITLE
 CPU
 X-BUSS REGISTERS

DRAFTER V. TAHAMONT	TASK 03076	SHT 14-34
DATE 11-1-83	DWG 35-864 R04	DO8

NOTES

BRUNING 44-131 405792



REVISIONS				
AREA J3, ICA76, PIN 21 WAS "V121", PIN 20 WAS "V131" & PIN 19 WAS "V141".				
RP RP 3573 MS 12-14-83 R01	X			
AREA FB SIGNAL R191 WAS E1-2, SIGNAL VIII WAS E1-3				
HH 41 5041 MS 3-8-84 R02	X			

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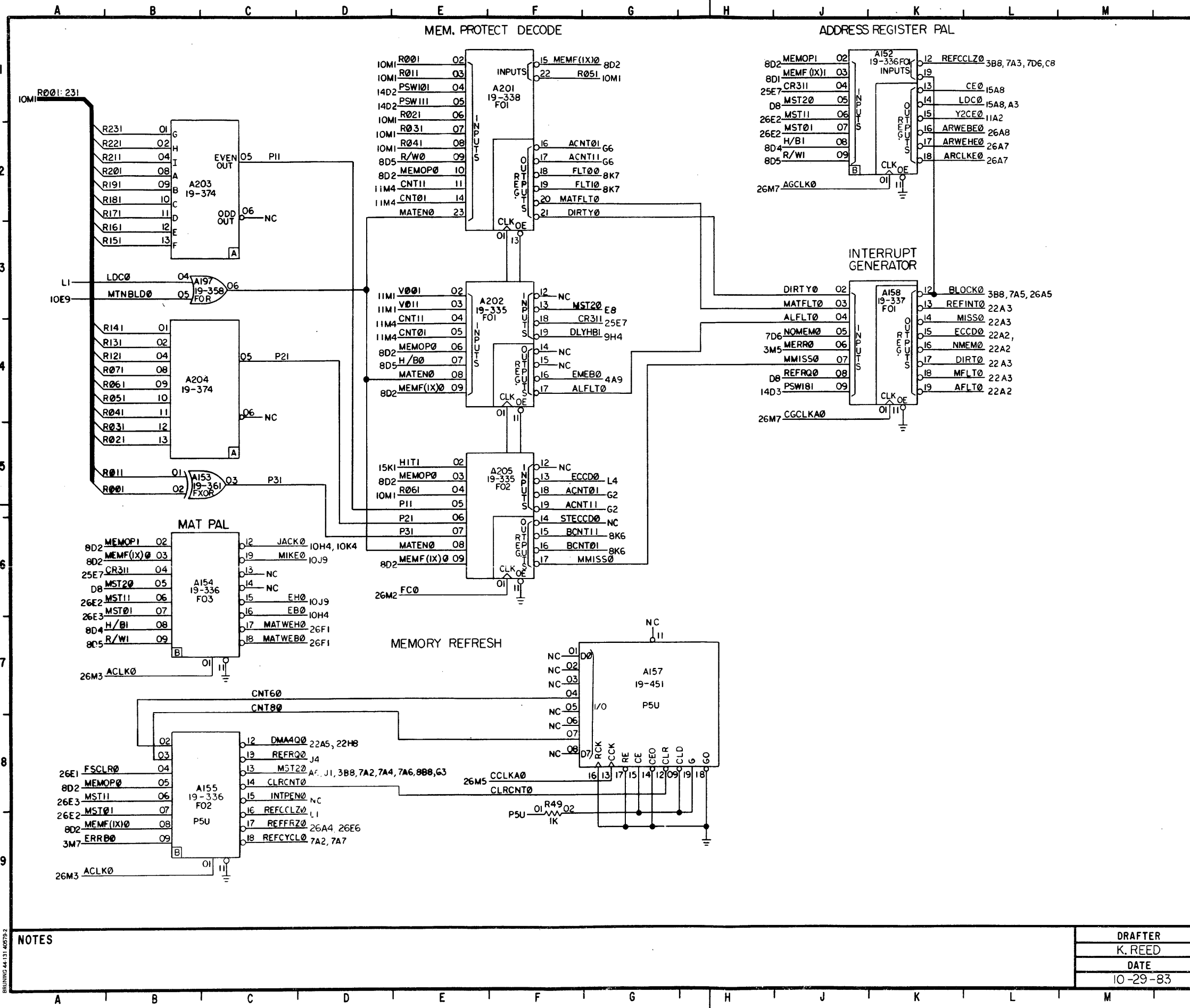
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TITLE CPU
MEMORY ADDRESS INCREMENTER & DRIVERS

NOTES

26M7 CGCLKAI
F2 P5R
16L1 LDC0
16L1 CE0
26M4 TDRV0
8E9 ACYCLE0
1QM1 R001:231

DRAFTER E. JOHNSON	TASK 03076	SHT
DATE 10-28-83	DWG 35-864 R02	D08 15-34



REVISIONS				
AREA K1	A152 PIN 19 WAS CONNECTED TO "ERRB0" WITH CROSS REF "3M7".			
AREA G3	A202 PIN 13 WAS "N.C."			
AREA DB	ADDED CROSS REF'S "22A8" TO MNEMONIC DMA400 & "G3" TO MST20.			
KR	KR	5555	MS	11-14-83
AREA C6	A154 PIN 1 WAS CONNECTED TO "R2MDIRD" WITH CROSS REF "10K9".			
KR	KR	5560	MS	11-25-83
AREA J5	A158 PIN 01 WAS CONNECTED TO "CCLKA0" WITH CROSS REF "26M5".			
KR	KR	5573	MS	12-14-83
AREA G4	A202 PIN 19 WAS A "N.C."			
AREA D9	DELETED CROSS REF "18G9" FROM SIGNAL REFFRZ0			
VT	KR	5614	MS	1-16-84
AREA F2	A201 PIN 16 & 17 CROSS REF WERE BK6, AREA F6 IC A205 PINS 13-16 ADDED SIGNALS & CROSS REF S.			
HH	HH	5657	MS	4-4-89

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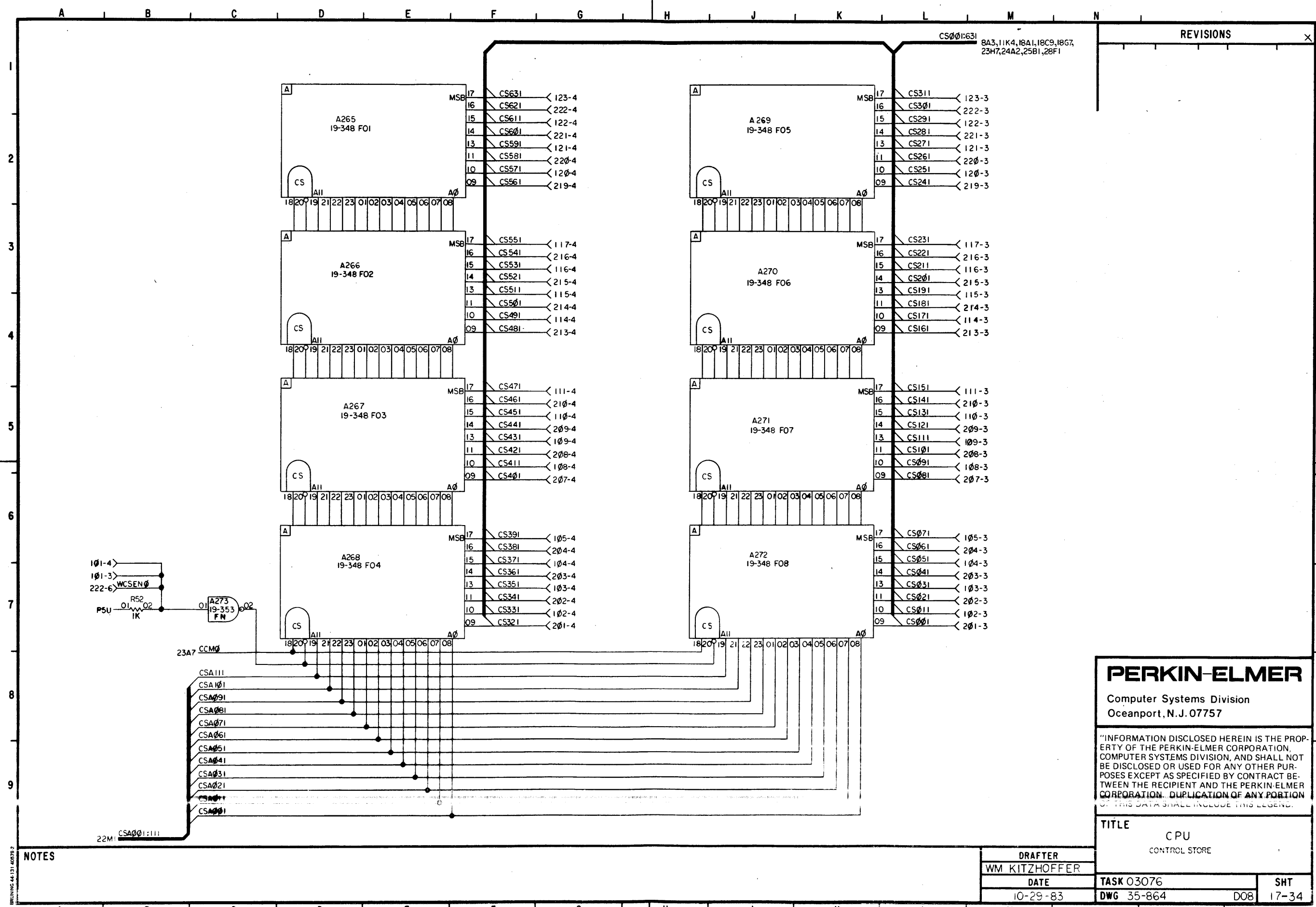
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TITLE
CPU
CONTROL: ADDRESS REGISTER, MAT, MEMORY REFRESH

DRAFTER K. REED	TASK O3076	SHT 16-34
DATE 10-29-83	DWG 35-864 RO.5	DOB 16-34

NOTES

BRUNING 44-131 405762



REVISIONS	

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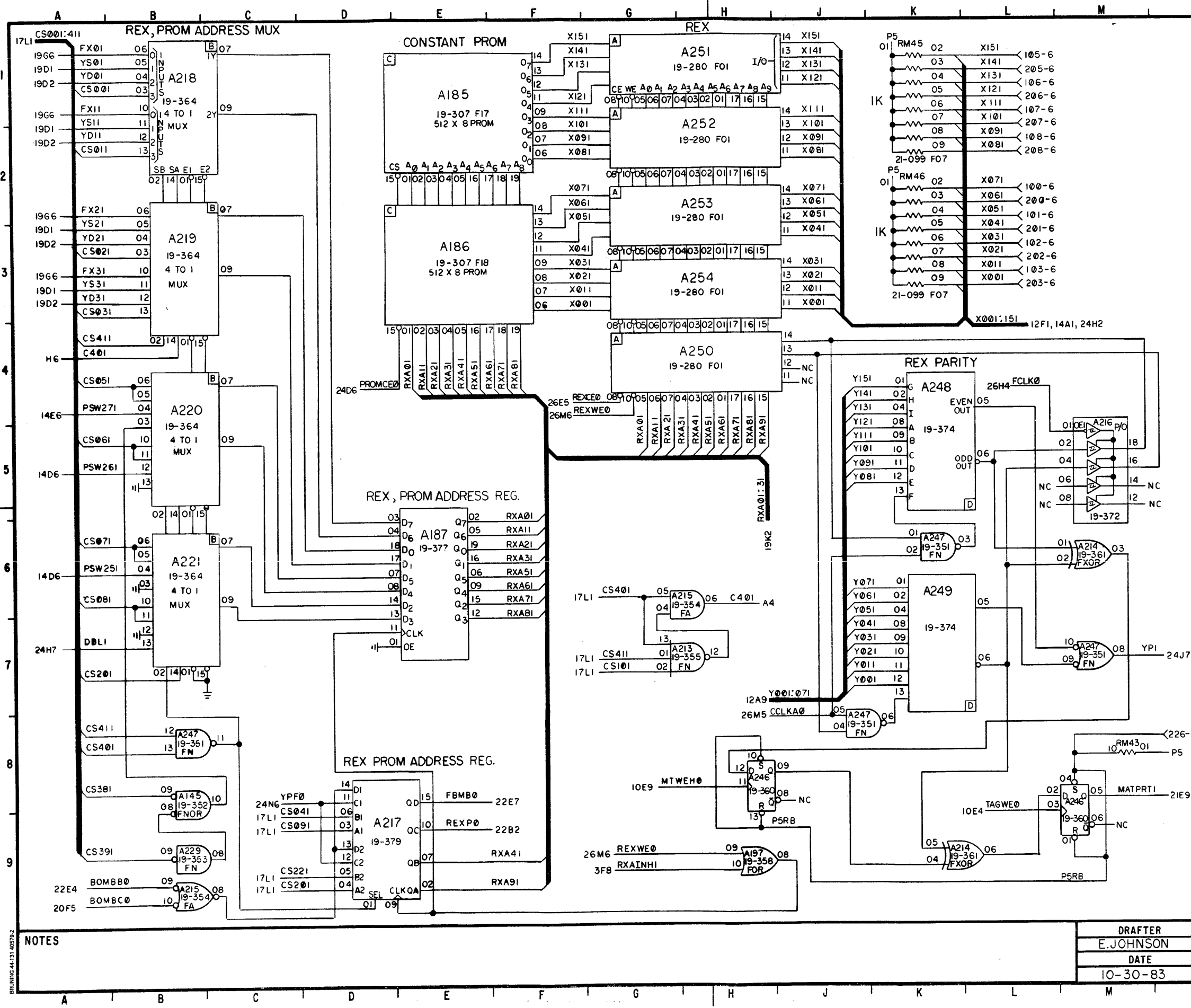
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TITLE
 CPU
 CONTROL STORE

DRAFTER WM KITZHOFFER	TASK 03076	SHT
DATE 10-29-83	DWG 35-864	D08 17-34

NOTES

IRLING 44-131-402782



REVISIONS			
AREA AB E A 9, MNEMONIC "CS381" WAS "CS391", & "CS391" WAS "CS381".			
KR	RR	5555	MS 11-14-83 RO1 X
AREA L 9, A248 PIN 05 & AREA L 6, A249 PIN 05 WERE "NC". AREA M 7, A247 PIN 09 WAS CONNECTED TO A249 PIN 06 & A247 PIN 10 WAS CONNECTED TO A214 PIN 01.			
KR	RP	5606	M 1-12-84 RO2
AREA G 9, DELETED GATE A120 PINS 01 & 02, PIN 01 WAS CONNECTED TO "REFR20" W/CROSS REF "16C8" & PIN 02 WAS CONNECTED TO A197 PIN 10 IN AREA G 9.			
KR	RE	5614	MS 1-16-84 RO3 X
AREA J 8, A247-05, "CCLKA0" WAS "CCLKA0" WITH CROSS REF 26M6.			
KR	J1	5630	MS 2-23-84 RO4 X

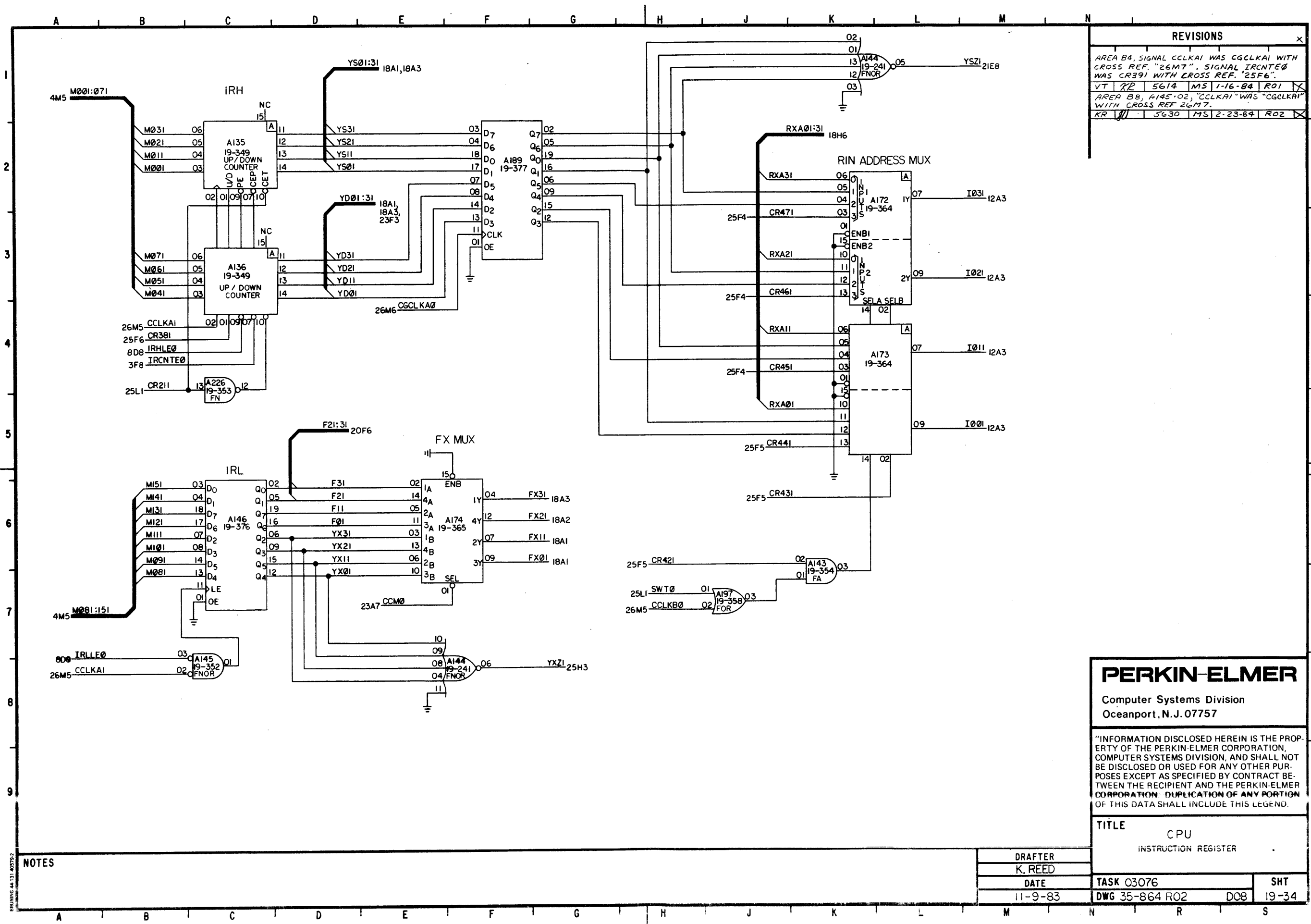
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TITLE		CPU	
		REGISTER EXTERNAL (REX) CONSTANT PROM	
DRAFTER	E. JOHNSON	TASK 03076	SHT
DATE	10-30-83	DWG 35-864 RO4	DO8 18-34

NOTES

BRUNING 44-131 405792



REVISIONS

AREA B4, SIGNAL CCLKAI WAS CGCLKAI WITH CROSS REF. "26M7". SIGNAL IRCNTE0 WAS CR391 WITH CROSS REF. "25F6".					
VT	KP	5614	MS	1-16-84	R01
AREA B8, A145-02, "CCLKAI" WAS "CGCLKAI" WITH CROSS REF 26M7.					
KR	11	5630	MS	2-23-84	R02

NOTES

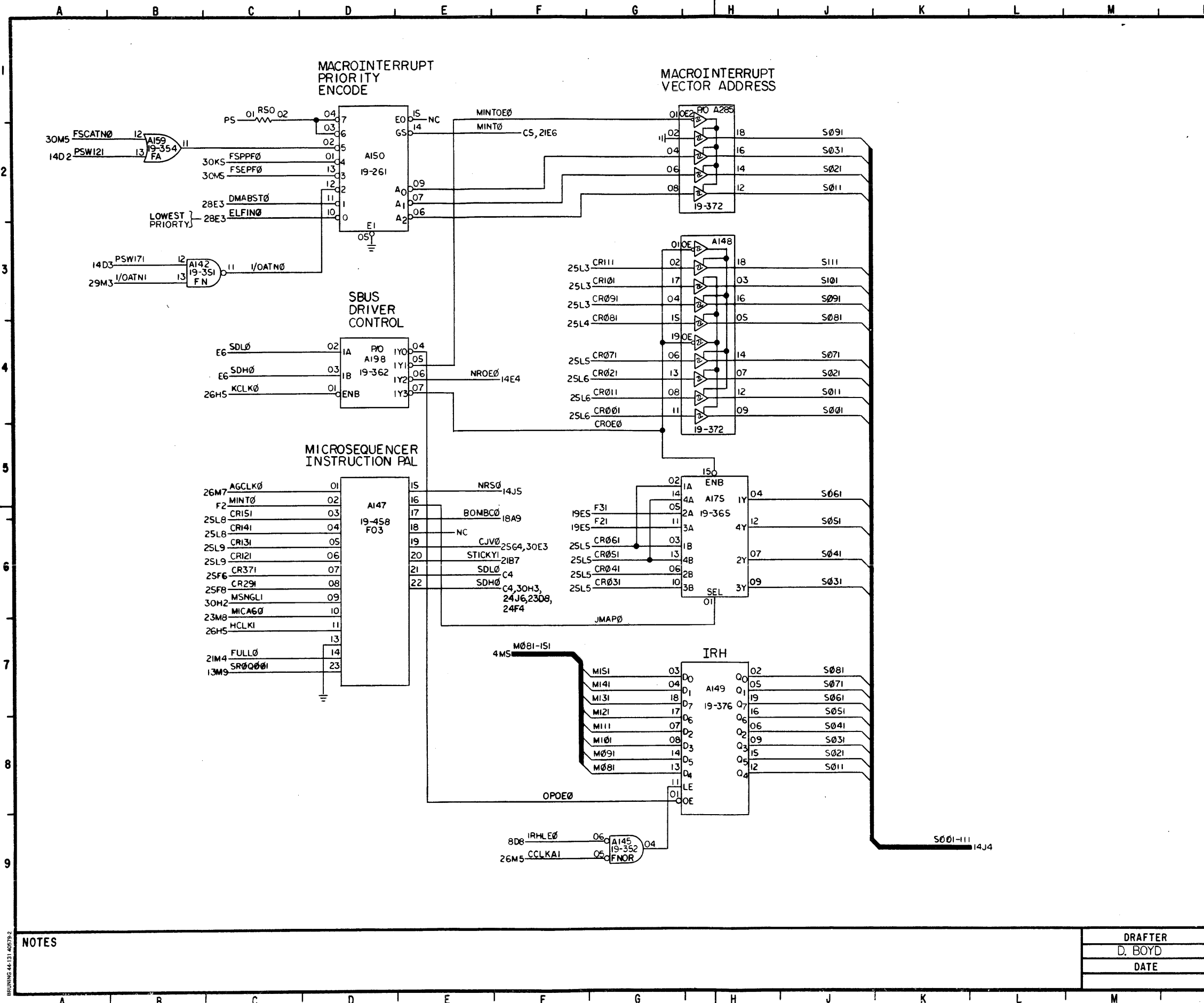
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TITLE
 CPU
 INSTRUCTION REGISTER

DRAFTER	K. REED		
DATE	11-9-83	TASK 03076	SHT
DWG	35-864 R02	DO8	19-34

BRUNING 44-131-4079-2



REVISIONS				
AREA F6, ADDED CROSS REF "24J6" TO MNEMONIC SDH0. AREA F9, REMOVED CROSS REF "20H6" FROM MNEMONIC OPOE0.	KR	RR	5555	MS 11-14-83 R01
AREA B2, ADDED GATE A159 & PIN 02 OF A150 WAS CONNECTED TO "FSCATN0" WITH CROSS REF "30M5".	KR	RR	5560	MS 11-25-83 R02 X
AREA F6, ADDED CROSS REF "23D8" TO SDH0. AREA C2, "ELFIN0" WAS "DMABST0" WITH CROSS REF "14M3". AREA G8, "OPOE0" WAS CROSS REF'ED TO 23D8.	KR	RR	5573	MS 12-14-83 R03 X
AREA F6, ADDED CROSS REF "24F4" TO SIGNAL SDH0.	KR	RR	5606	M 1-12-84 R04 X
AREA F9, A145-05, "CCLKA1" WAS "CBCLKA1" WITH CROSS REF 26M6.	KR	RR	5630	MS 2-23-84 R05 X

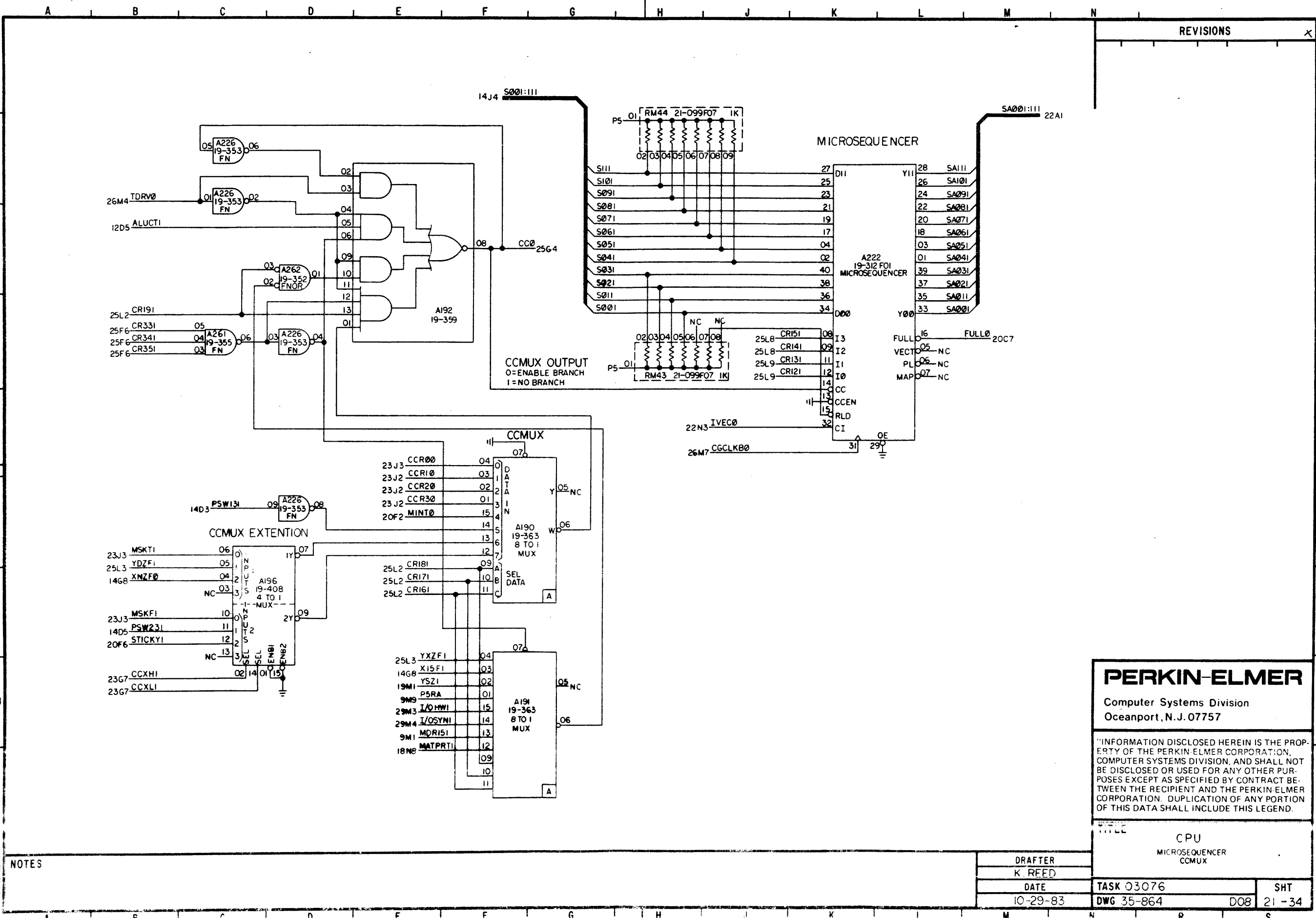
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TITLE		CPU S-BUS DRIVERS MACROINTERRUPT CONTROL	
DRAFTER	D. BOYD		
DATE	TASK 03076	SHT	20-34
	DWG 35-864 R05	D08	

NOTES

BRUNING 44-131-10579-2



REVISIONS	

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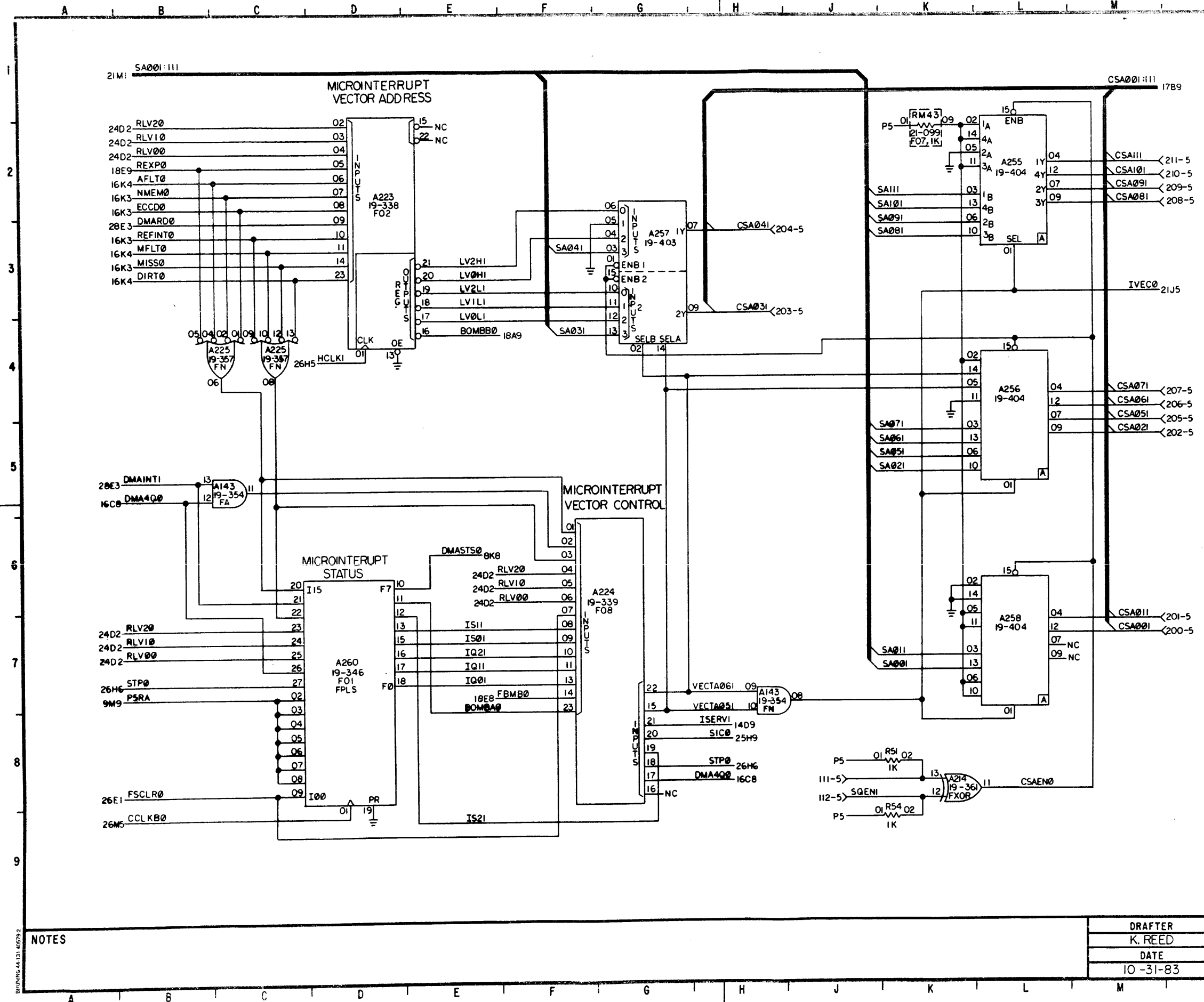
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TITLE	
CPU MICROSEQUENCER CCMUX	
DRAFTER	K. REED
DATE	TASK 03076 DWG 35-864
	SHT 21 - 34

NOTES

Rev. 10-29-83, 131, 627M

REVISIONS				
AREA E7 THUR GB, A260 PIN 12, A224 PINS 17, 18 & 19 WERE "N.C.", MNEMONIC "IS11" WAS "IS21", "IS01" WAS "IS11" & "IQ21" WAS "IS01".				
KR	XP	5555	MS	11-14-83 RO1
AREA E6, A260 PIN 10 WAS A.C.				
KR	XP	5560	TM	11-2-83 RO2 K



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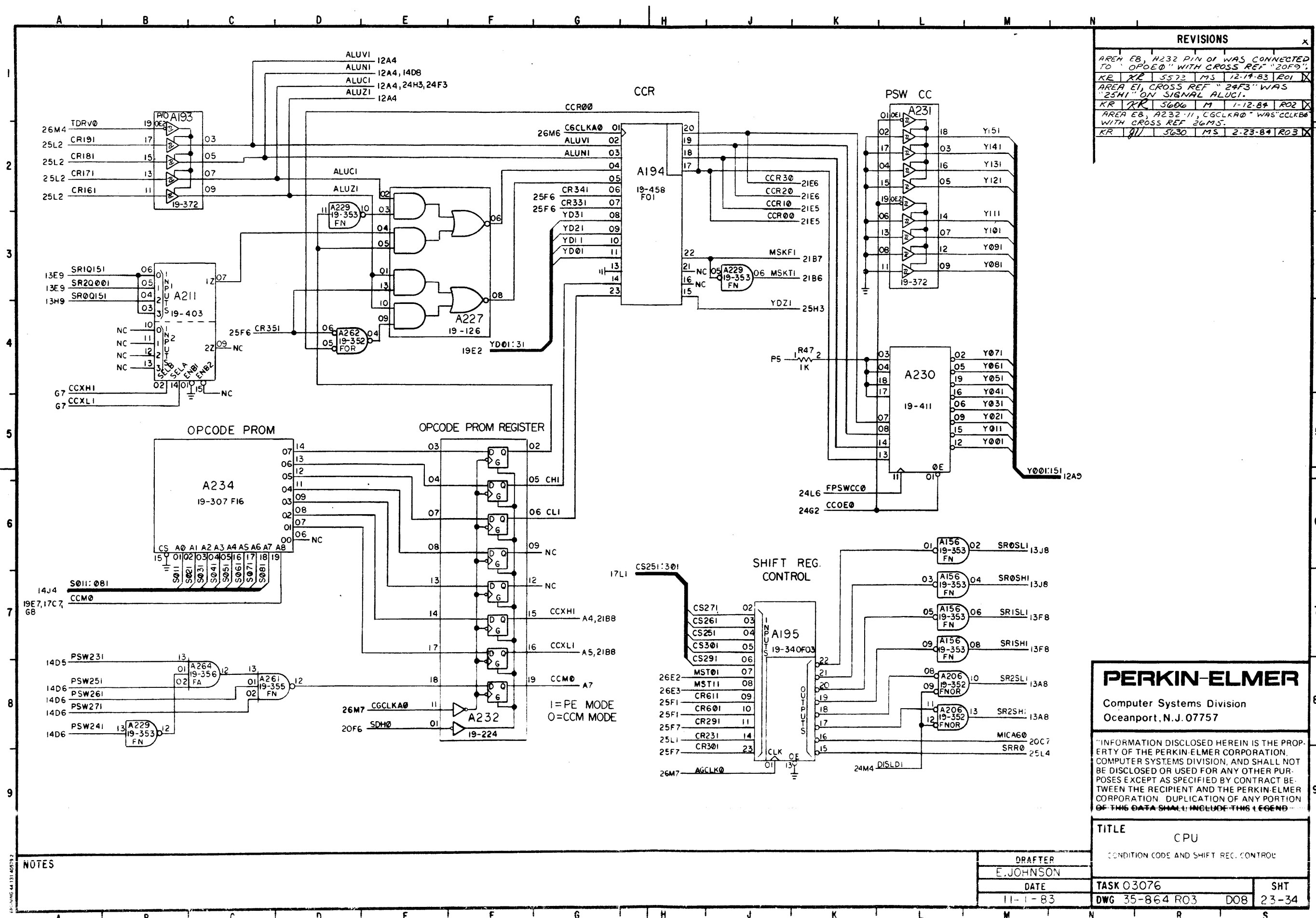
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TITLE
 CPU
 INTERRUPT CONTROL
 CONTROL STORE ADDRESS MUX

DRAFTER	K. REED	
DATE	TASK 03076	SHT
10-31-83	DWG 35-864 RO2	D08 22-34

NOTES

BRUNING 44 131 40579.2



REVISIONS		X
AREA EB, A232 PIN 01 WAS CONNECTED TO "OPOE0" WITH CROSS REF "20F9".		
KR	ZR	5572 MS 12-14-83 R01 X
AREA E1, CROSS REF "24F3" WAS "25H1" ON SIGNAL ALUCI.		
KR	ZR	5606 M 1-12-84 R02 X
AREA EB, A232 PIN 11, CGCLKA0 WAS "CLKB0" WITH CROSS REF 26M5.		
KR	ZR	5630 MS 2-23-84 R03 X

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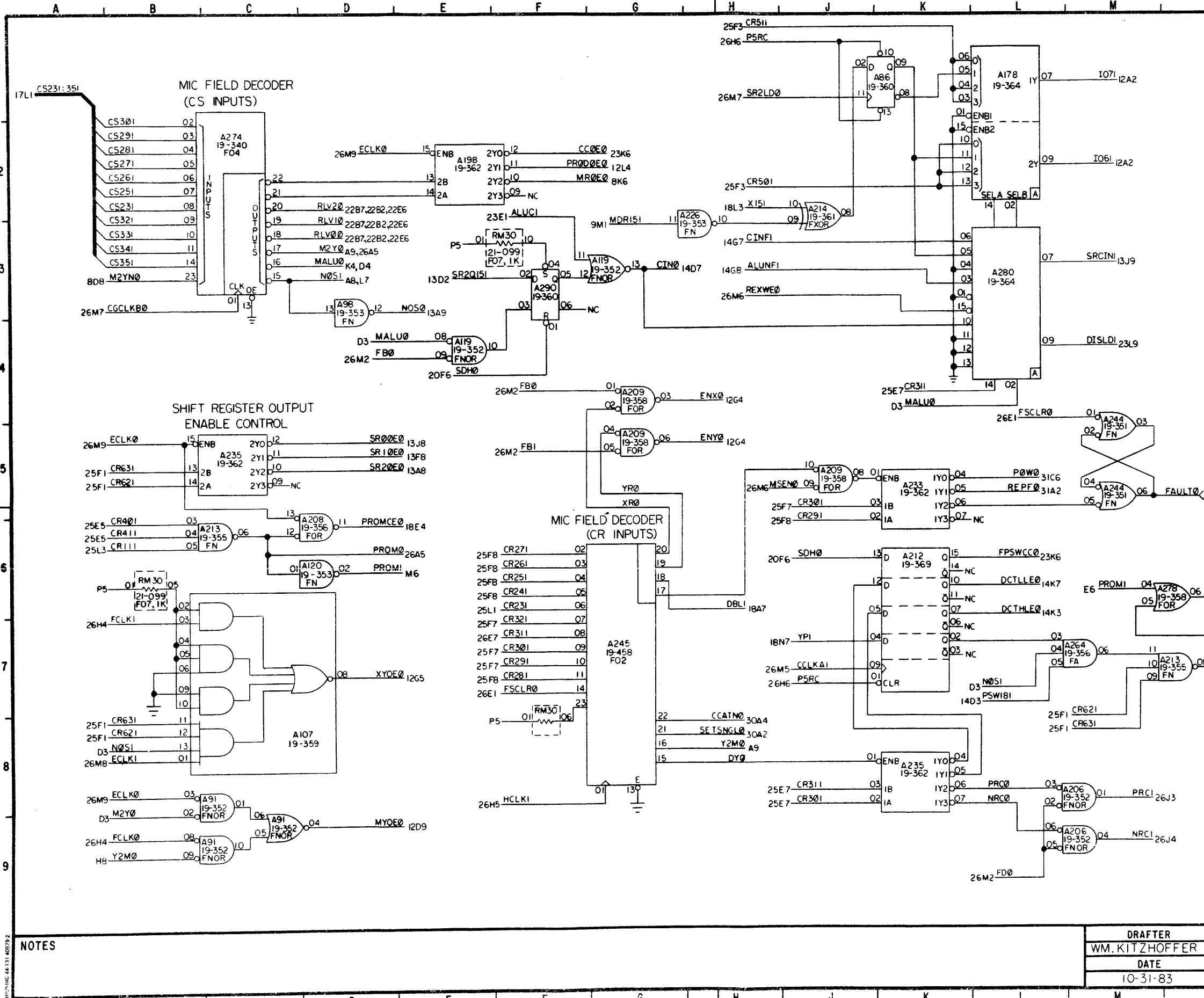
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TITLE		CPU	
CONDITION CODE AND SHIFT REC. CONTROL			
DRAFTER	E. JOHNSON		
DATE	11-1-83		
TASK	O3076		SHT
DWG	35-864 R03		23-34

NOTES

I=PE MODE
 O=CCM MODE

DRAWING 44131-00573-2



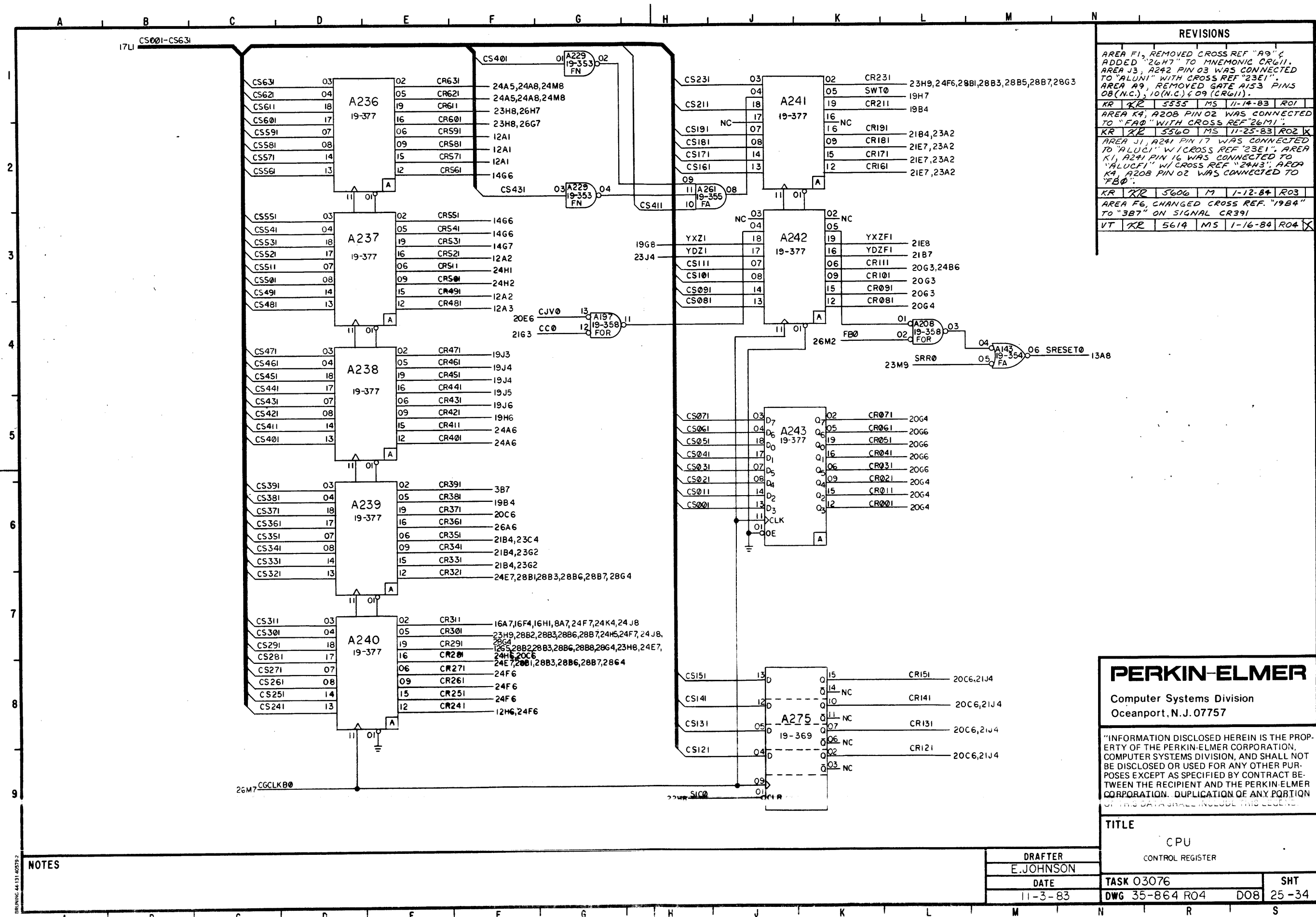
REVISIONS				
AREA J6, A212 PIN 13 WAS CONNECTED TO "OPOE0" WITH CROSS REF "20F9".				
KR	XR	5555	MS	11-14-83 RO1 X
AREA J4, DELETED GATE A156 PINS 10 & 11. PIN 10 WAS CONNECTED TO ALUC1 W/ CROSS REF 23E1 E 9Y 11 WAS CONNECTED TO A280 PIN 11. AREA F3, ADDED RM30 A290. GATES 10 & 13. AREA H3 A280 PIN 06 & 05 CONNECTED TO ALUC1 W/ CROSS REF 25L2.				
KR	RR	5606	M	1-12-84 RO2
AREA C6, ADDED GATE A128. AREA M6, A213 08 WAS CONNECTED TO "YPF0" W/ CROSS REF "18CB". ADDED GATE A278.				
KR	XR	5416	MS	1-16-84 RO3 X
AREA L7, ADDED STRAP FROM A212-02 TO A212-08 (GND).				
KR	11	5630	MS	2-23-84 RO4 X
AREA L7, REMOVED STRAP FROM A212-02 TO A212-08 (GND).				
HH	QU	5657	MS	4-4-84 RO5 X

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TITLE		CPU	
Y-BUS, X-BUS SOURCE / DESTINATION CONTROL			
DRAFTER		WM. KITZHOFFER	
DATE		10-31-83	
TASK	DWG	SHT	
O3076	35-864 RO5	D08	24-34

NOTES



REVISIONS			
AREA F1, REMOVED CROSS REF "A9" & ADDED "26H7" TO MNEMONIC CR611.			
AREA J3, A242 PIN 03 WAS CONNECTED TO "ALUN1" WITH CROSS REF "23E1".			
AREA A9, REMOVED GATE A153 PINS 08(N.C.), 10(N.C.), & 09 (CR611).			
KR	KR	5555	MS 11-14-83 R01
AREA K4, A208 PIN 02 WAS CONNECTED TO "FAB" WITH CROSS REF "26M1".			
KR	KR	5560	MS 11-25-83 R02 X
AREA J1, A241 PIN 17 WAS CONNECTED TO "ALUC1" W/ CROSS REF "23E1". AREA K1, A241 PIN 16 WAS CONNECTED TO "ALUCF1" W/ CROSS REF "24H3". AREA K4, A208 PIN 02 WAS CONNECTED TO "FAB".			
KR	KR	5606	M 1-12-84 R03
AREA F6, CHANGED CROSS REF. "19B4" TO "3B7" ON SIGNAL CR391			
VT	KR	5614	MS 1-16-84 R04 X

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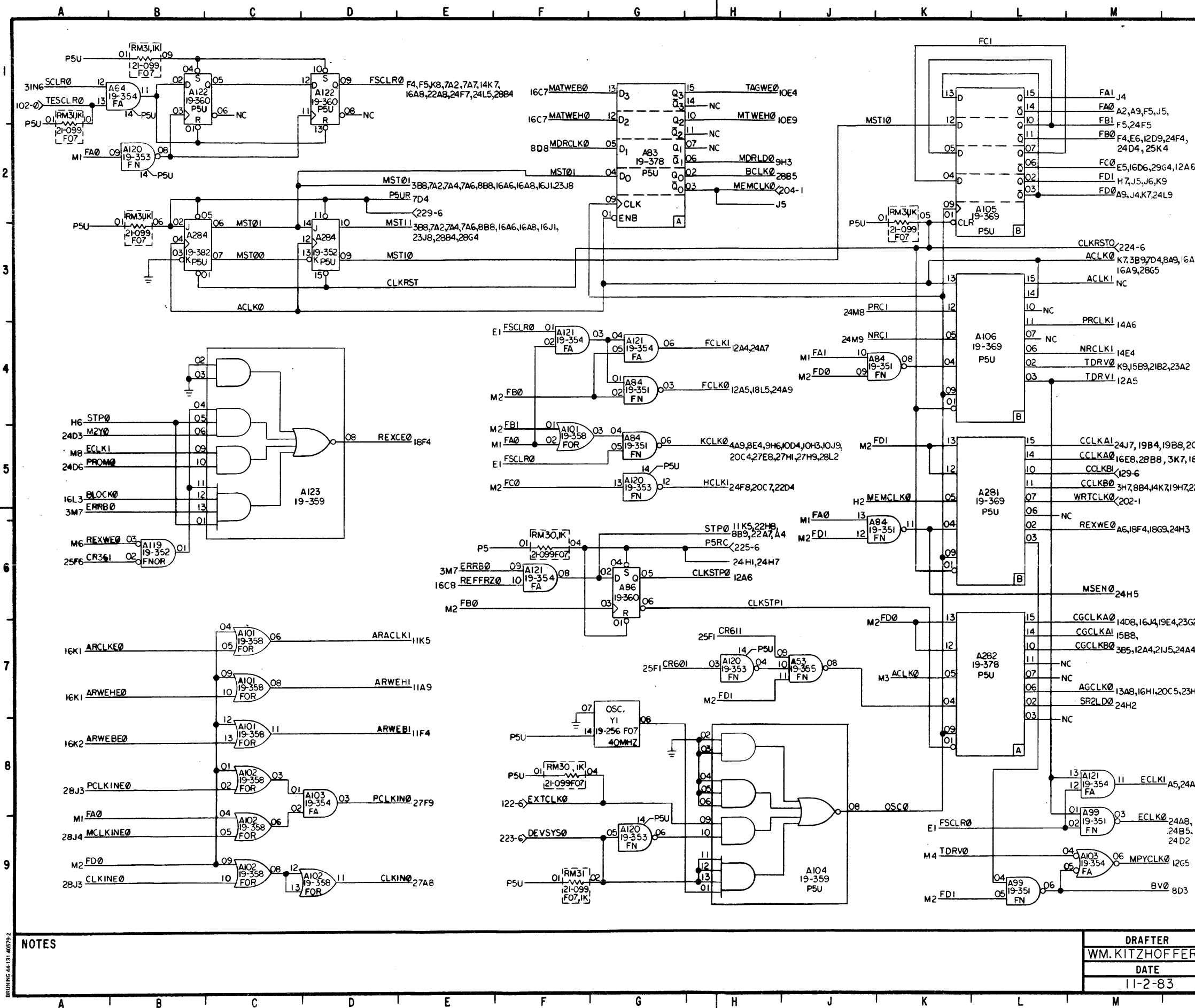
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TITLE
 CPU
 CONTROL REGISTER

DRAFTER E. JOHNSON	TASK O3076	SHT
DATE 11-3-83	DWG 35-864 R04	D08 25-34

NOTES

DRAWING 44-131-40793-2



REVISIONS				
AREA H6, ADDED CROSS REFS "11K5 & 22H8" TO MNEMONIC STP0. AREA H7, A53 PIN 09 WAS "N.C.". AREA A5, A123 PIN 01 WAS CONNECTED TO "FA0" WITH CROSS REF "M1".	KR	KR	5555	MS 11-19-83 R01
AREA N1, DELETED CROSS REF "25K4" FROM FA0 & ADDED IT TO "FC0" IN AREA N2.	KR	KR	5560	MS 11-25-83 R02 X
AREA M5, DELETED CROSS REF "16J9" FROM CCLKA0 & ADDED IT TO CGCLKA0 IN AREA M7.	KR	KR	5573	MS 12-19-83 R03 X
AREA M2, ADDED CROSS REFS "24DA & 25K4" TO SIGNAL FB0, DELETED CROSS REF "25K4" FROM SIGNAL "FC0".	KR	KR	5606	M 1-13-84 R04
AREA A5 & E6, SIGNAL ERB0 WAS ERROR WITH CROSS REF "3M5". AREA M5, ADDED CROSS REF "19B4" TO SIGNAL CCLKA1 & "3K7" TO SIGNAL CCLKA0. AREA M7, DELETED CROSS REF "19B4" FROM SIGNAL CGCLKA1.	VT	KR	5614	MS 1-16-84 R05 X
AREA A5, A123-05 & 01, "STP0" WAS "REFFRZ0" WITH CROSS REF 16CB. AREA H5, DELETED CROSS REF "12A3" FROM A120-12. AREA H6, ADDED CROSS REF "A4" TO "STP0". AREA G6, AB6-05 WAS "N.C.". AREA M2, ADDED CROSS REFS "12AC" TO "FC0". AREA M5, ADDED CROSS REFS "19B8 & 20F9" TO CCLKA1 & "18H7" TO CCLKA0. AREA M5, DELETED CROSS REF "23DB" FROM CCLKB0. AREA M7, DELETED CROSS REF "18H7" FROM CGCLKA0 & "19B8 & 20F9" FROM CGCLKA1. ADDED CROSS REF "23E8" TO CGCLKA0.	KR	KR	5630	MS 2-23-84 R06 X

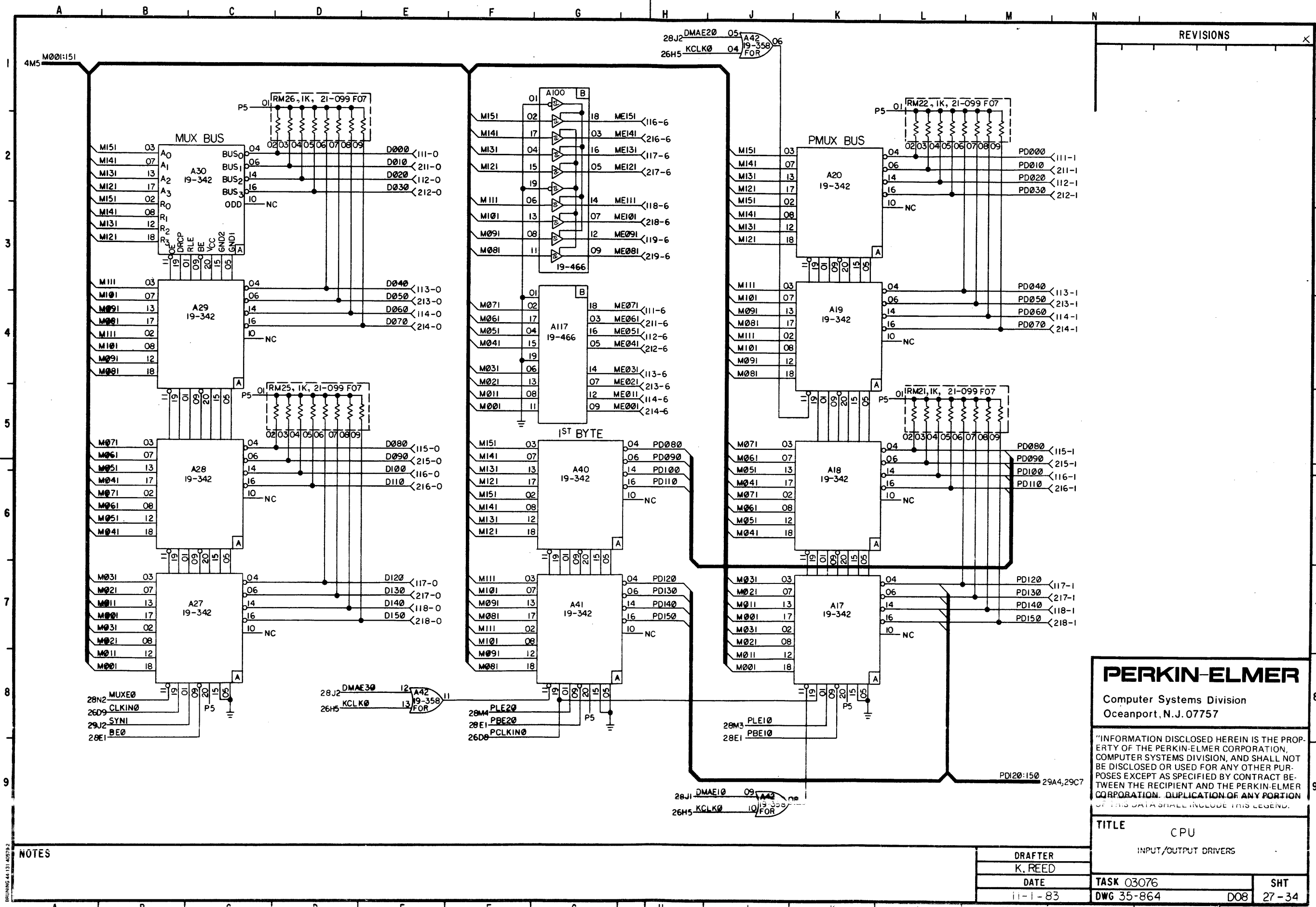
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TITLE		CPU MASTER CLOCK	
DRAFTER	WM. KITZHOFFER	TASK	O3076
DATE	11-2-83	DWG	35-864 R06
SHT	26-34	D08	

NOTES

BRUNING 44-131-0079-2



REVISIONS

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Oceanport, N.J. 07757

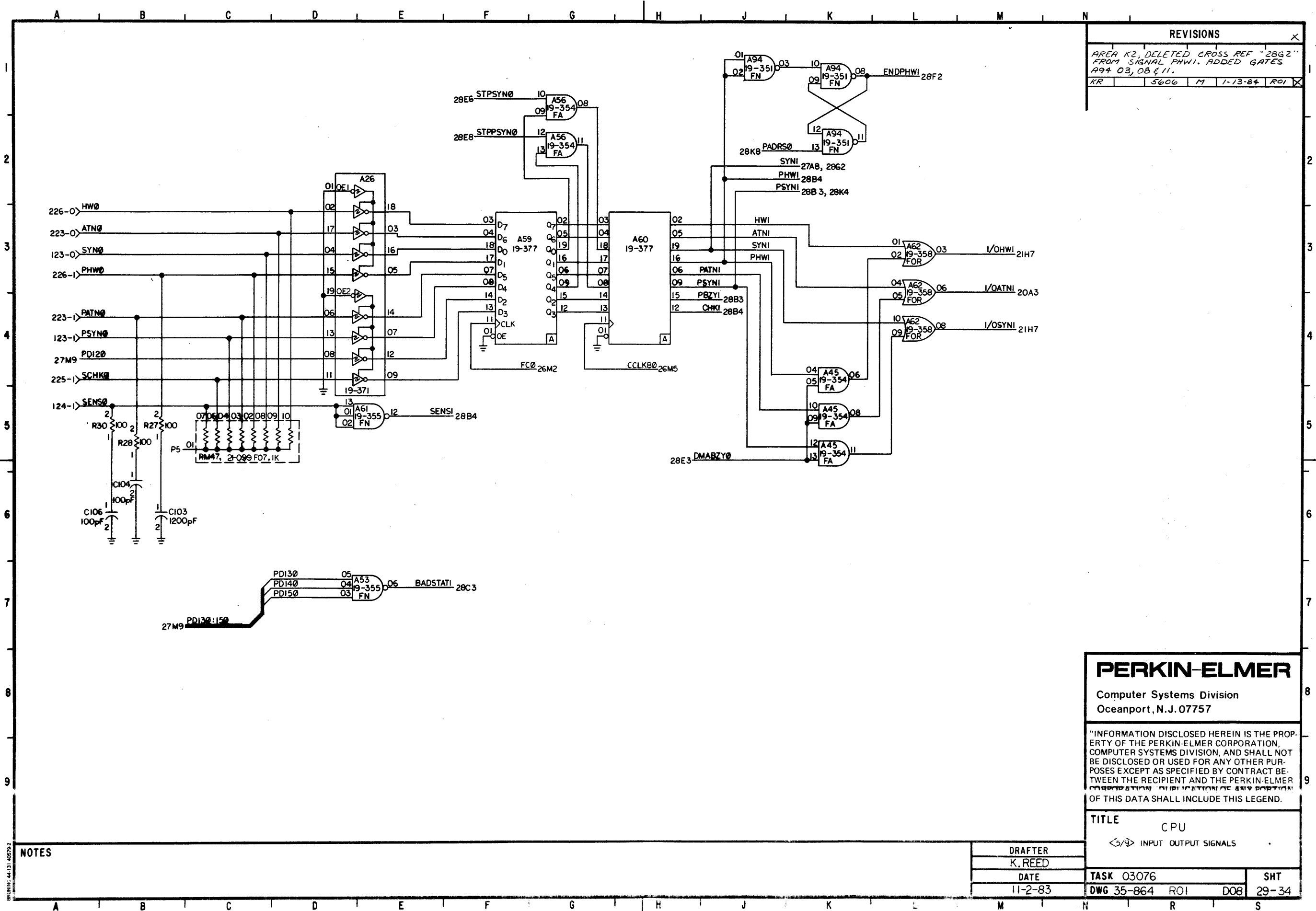
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TITLE CPU
INPUT/OUTPUT DRIVERS

DRAFTER K. REED	TASK 03076	SHT 27-34
DATE 11-1-83	DWG 35-864	D08

NOTES

DRAWING 44-131-405792



REVISIONS				
AREA K2, DELETED CROSS REF "28G2" FROM SIGNAL PHWI. ADDED GATES A94 03, 08 & 11.				
KR	5606	M	1-13-84	ROI

NOTES

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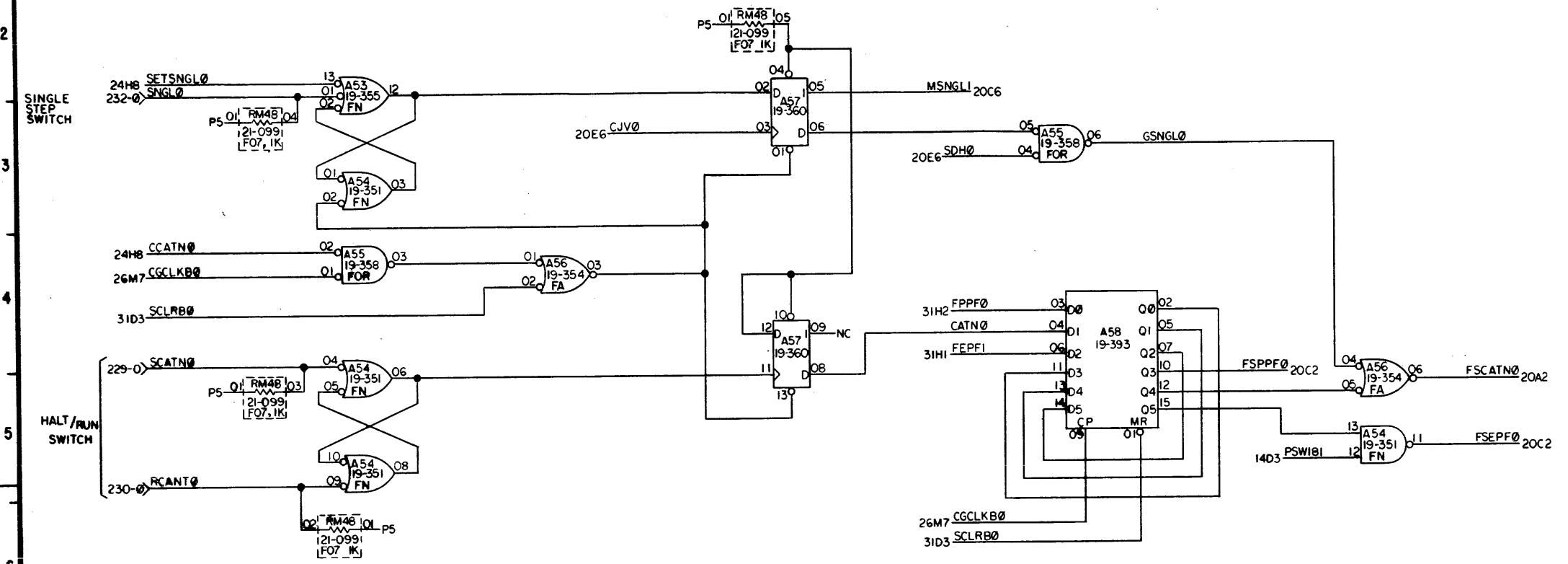
TITLE CPU
 <5/3> INPUT OUTPUT SIGNALS

DRAFTER K. REED	TASK 03076	SHT
DATE 11-2-83	DWG 35-864 ROI DOB	29-34

BRUNING 44-131 40575-2

REVISIONS

AREA 15, CROSS REF "20A2" WAS
"20C2" OF SIGNAL FSCATN0.
KR KR 3560 MS 11-25-83 RO1



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TITLE CPU
CONSOLETTTE INTERFACE

DRAFTER	WM. KITZHOFFER
DATE	11-3-83
TASK 03076	SHT
DWG 35-864 RO1	D08 30-34

NOTES

REVIEWS 44131 40279.2

NET	MNEMONIC	SHT	NET	MNEMONIC	SHT	NET	MNEMONIC	SHT	NET	MNEMONIC	SHT	NET	MNEMONIC	SHT	NET	MNEMONIC	SHT	NET	MNEMONIC	SHT	NET	MNEMONIC	SHT	NET	MNEMONIC	SHT	REVISIONS
	CCLK80	26		CR261	25		CS171	17		CSAC91	22		E051	03		FX21	19		M121	04		M1550	16	AREA J6, MNEMONIC "IQ21" WAS "IS01" "IS01" WAS "IS11" & "IS11" WAS "IS21". KR KR 5555 MS 11-14-83 ROI K			
	CCLK81	26		CR271	25		CS181	17		CSA101	22		E061	03		FX31	19		M131	04		M1550	16				
	CCMO	23		CR281	25		CS191	17		CSA111	22		E071	03		GENC	03		M141	04		MPYCLKO	26				
	CCOEO	24		CR291	25		CS201	17		CSAENO	22		E081	03		GNDDM1	04		M151	04		MRDEO	24				
	CCROO	23		CR301	25		CS211	17		CYCLED	08		E091	03		GSNGLO	30		M2YC	24		MSENO	26				
	CCR10	23		CR311	25		CS221	17		0000	27		E101	03		H/BC	08		M2YNO	06		MSKF1	23				
	CCR20	23		CR321	25		CS231	17		0010	27		E11	15		H/B1	08		MA00	15		MSKT1	23				
	CCR30	23		CR331	25		CS241	17		0020	27		E111	03		HCLK1	26		MA10	15		MSNGL1	30				
	CCXH1	23		CR341	25		CS251	17		0030	27		E121	03		HIT1	15		MA20	15		MST00	26				
	CCXL1	23		CR351	25		CS261	17		0040	27		E131	03		HWO	29		MA30	15		MST01	26				
	CEO	16		CR361	25		CS271	17		0050	27		E141	03		HW1	29		MA40	15		MST10	26				
	CGCLKA0	26		CR371	25		CS281	17		0060	27		E151	03		I/OADDO	28		MA50	15		MST11	26				
	CGCLKA1	26		CR381	25		CS291	17		0070	27		EBO	16		I/OATNO	20		MA60	15		MST20	16				
	CGCLKB0	26		CR391	25		CS301	17		0080	27		ECCDO	16		I/OATH1	29		MA70	15		MTNBLOO	10				
	CH1	23		CR401	25		CS311	17		0090	27		ECCLOU70	03		I/OHM1	29		MA80	15		MTWEHO	10				
	CHK1	29		CR411	25		CS321	17		0100	27		ECCOEO	03		I/OSYN1	29		MATE1	08		MUXEO	28				
	CJVO	20		CR421	25		CS331	17		0110	27		ECLKO	26		ID01	19		MATENO	16		MUXECO	28				
	CL070	28		CR431	25		CS341	17		0120	27		ECLK1	26		ID11	19		MATFLTO	16		MX00	15				
	CL1	23		CR441	25		CS351	17		0130	27		EHO	16		ID21	19		MATPRT1	18		MX10	15				
	CL70A0	31		CR451	25		CS361	17		0140	27		ELGOEO	28		ID31	19		MATWEBO	16		MX20	15				
	CLKINO	26		CR461	25		CS371	17		0150	27		EMEO	03		ID61	24		MATWEHO	16		MX30	15				
	CLKINED	28		CR471	25		CS381	17		0161	31		EMEBO	16		ID71	24		MCLKINEO	28		MX4C	15				
	CLKRST	26		CR481	25		CS391	17		081	31		ENXO	24		ID91	14		MDR151	09		MX50	15				
	CLKSTP1	26		CR491	25		CS401	17		091	31		ENYO	24		ID101	14		MDRCLKO	08		MX60	15				
	CLRCNTO	16		CR501	25		CS411	17		0A0	28		ERLOEO	08		ID111	14		MDRLDO	26		MX70	15				
	CLRTAGO	08		CR511	25		CS421	17		0A0A0	28		ERRO	03		ID121	14		MDROEO	28		MX80	15				
	CMDC	28		CR521	25		CS431	17		0BL1	24		ERRBO	03		IQ01	22		ME001	27		MYOEO	24				
	CMDCA0	28		CR531	25		CS441	17		0CTHLEO	24		EXTCLKO	26		IQ11	22		ME011	27		NMEMO	16				
	CNT01	11		CR541	25		CS451	17		0CTLLEO	24		F01	19		IRHLEO	08		ME021	27		NOMEHO	07				
	CNT11	11		CR551	25		CS461	17		0EVSYSO	26		F11	19		IRLLEO	08		ME031	27		NOSC	24				
	CNT40	16		CR561	25		CS471	17		0DIRTO	16		F21	19		IQ21	22		ME041	27		NOST	24				
	CNT80	16		CR571	25		CS481	17		0DIRTYO	16		F31	19		IS01	22		ME051	27		NRCO	24				
	CRO01	25		CR581	25		CS491	17		0ISLD1	24		FA0	26		IS11	22		ME061	27		NRC1	24				
	CRO11	25		CR591	25		CS501	17		MALUO	24		FA1	26		ISERV1	22		ME071	27		NRCLK1	26				
	CRO21	25		CR601	25		CS511	17		0MA4QO	16		FAULTO	24		IVECO	22		ME081	27		NROEO	20				
	CRO31	25		CR611	25		CS521	17		0MABSTO	28		FBO	26		JACKO	16		ME091	27		NRSO	20				
	CRO41	25		CR621	25		CS531	17		0MABZYO	28		F81	26		JNAPQ	20		ME101	27		NVM1	31				
	CRO51	25		CR631	25		CS541	17		0MACNTO	28		FBMBO	18		KCLKO	26		ME111	27		OPOEO	20				
	CRO61	25		CR6EO	20		CS551	17		0MAE1O	28		FCO	26		LDCO	16		ME121	27		OSCO	26				
	CRO71	25		CS001	17		CS561	17		0MAE2O	28		FC1	26		LVOH1	22		ME131	27		OUTEO1	07				
	CRO81	25		CS011	17		CS571	17		0MAE3O	28		FCLKO	26		LVOL1	22		ME141	27		OUTE11	07				
	CRO91	25		CS021	17		CS581	17		0MAENDO	14		FCLK1	26		LV1L1	22		ME151	27		P11	16				
	CR1C1	25		CS031	17		CS591	17		0MAF(1X)O	28		FDO	26		LV2H1	22		MEMOPD	08		P21	16				
	CR111	25		CS041	17		CS601	17		0MAF(X1)O	28		F01	26		LV2L1	22		MEMOP1	08		P31	16				
	CR121	25		CS051	17		CS611	17		0MAINT1	28		FEPP1	31		M001	04		MENCLKO	26		P5R	15				
	CR131	25		CS061	17		CS621	17		0MARDO	28		FLYCO	16		M011	04		MENF(1X)O	08		P5RA	09				
	CR141	25		CS071	17		CS631	17		0001E	03		FLT1O	16		M021	04		MENF(1X)O	08		P5RB	18				
	CR151	25		CS081	17		CSA001	22		00EO	03		FPPFO	31		M031	04		MERRO	03		P5RC	26				
	CR161	25		CS091	17		CSA011	22		0RO	28		FPSMCCO	24		M041	04		MFLTO	16		P5RM21	27				
	CR171	25		CS101	17		CSA021	22		0ROAO	28		FSCATNO	30		M051	04		MICA00	08		P5UR	26				
	CR181	25		CS111	17		CSA031	22		0YO	24		FSCLR0	26		M061	04		MICA10	08		PADR50	28				
	CR191	25		CS121	17		CSA041	22		0E01	03		FSEPPFO	30		M071	04		MICA20	08		PADR5OAC	28				
	CR211	25		CS131	17		CSA051	22		0E01	03		FSPPPFO	30		M081	04		MICA60	23		PAS51	08				
	CR231	25		CS141	17		CSA061	22		0E021	03		FULLO	21		M091	04		MIREO	16		PATNO	29				
	CR241	25		CS151	17		CSA071	22		0E031	03		FX01	19		M101	04		MINTO	20		PATN1	29				
	CR251	25		CS161	17		CSA081	22		0E041	03		FX11	19		M111	04		MINTOEC	20		PBE10	28				

NOTES

PERKIN-ELMER
 Computer Systems Division
 Oceanport, N.J. 07757

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TITLE
 CPU

DRAFTER	K. REED
DATE	11-9-83
TASK	03076
DWG	35-864 ROI
SHT	33-34

NET	MNEMONIC	SHT	NET	MNEMONIC	SHT	NET	MNEMONIC	SHT	NET	MNEMONIC	SHT	NET	MNEMONIC	SHT	NET	MNEMONIC	SHT	NET	MNEMONIC	SHT	NET	MNEMONIC	SHT	NET	MNEMONIC	SHT
PBE20		28	PTACK0		28	RAS20		07	ROUT120		05	SDH0		20	V151		11	Y001		12	PROM1		24			
PB2Y1		29	PTACK0AD		28	RAS20A0		07	ROUT130		05	SDL0		20	V161		11	Y011		12	A21308		24			
PCL070		28	Q11		31	RAS20B0		07	ROUT140		05	SELCT1		21	V171		11	Y021		12	IEN0		12			
PCLKIND		26	Q12		31	RAS21A0		07	ROUT150		05	SENS0		29	V181		11	Y031		12	CLKSTP0		26			
PCLKINEC		28	Q23		31	RAS21B0		07	RXA01		18	SENS1		29	V191		11	Y041		12						
PCM00		28	Q33		31	RAS30		07	RXA11		18	SETSNGL0		24	V201		11	Y051		12	BCNT11		16			
PCMD0A0		28	R/W0		08	RAS30A0		07	RXA21		18	SIC0		22	V211		11	Y061		12	BCNT01		16			
PO0C0		27	R/W1		08	RAS30B0		07	RXA31		18	SNGLO		30	V221		11	Y071		12						
PO010		27	RO01		10	RAS31A0		07	RXA41		18	SQEN1		22	V231		11	Y081		12						
PO020		27	RO11		10	RAS31B0		07	RXA51		18	SRO		28	VECTA051		22	Y091		12						
PO030		27	RO21		10	RCANT0		30	RXA61		18	SROA0		28	VECTA061		22	Y101		12						
PO040		27	RO31		10	REFCCL20		16	RXA71		18	SROCE0		24	WA1T0		14	Y108		12						
PO050		27	RO41		10	REFCYCLO		16	RXA81		18	SROC001		13	WCSENO		17	Y111		12						
PO060		27	RO51		10	REFFRZ0		16	RXA91		18	SROC151		13	WE00		07	Y121		12						
PO070		27	RO61		10	REFINT0		16	S001		14	SROSH1		23	WE0A0		07	Y131		12						
PO080		27	RO71		10	REFRQ0		16	S011		14	SROSL1		23	WE0B0		07	Y141		12						
PO090		27	RO81		10	REFF0		24	S021		14	SR10E0		24	WE0C0		07	Y151		12						
PD100		27	RO91		10	REXCEO		26	S031		14	SR1Q151		13	WE0D0		07	Y2CE0		16						
PD110		27	R1001		31	REXPO		18	S041		14	SR1SH1		23	WE0E0		07	Y2MC		24						
PD120		27	R101		10	REXME0		26	S051		14	SR1SL1		23	WE0F0		07	Y001		19						
PD130		27	R111		10	RIN000		05	S061		14	SR2CE0		24	WE10		07	Y011		19						
PD140		27	R121		10	RIN010		05	S071		14	SR2LD0		26	WE1A0		07	Y021		19						
PD150		27	R131		10	RIN020		05	S081		14	SR2Q001		13	WE1B0		07	Y031		19						
PDA0		28	R141		10	RIN030		05	S091		14	SR2SH1		23	WE1C0		07	Y0Z1		23						
PDACAD		28	R151		10	RIN040		05	S101		14	SR2SL1		23	WE1D0		07	Y0ZF1		25						
PDR0		28	R161		10	RIN050		05	S111		14	SRCIN1		24	WE1E0		07	Y01		18						
PDRCAD		28	R17C1		31	RIN060		05	SA0C1		21	SRESETO		25	WE1F0		07	YPF0		24						
PDFDT0		31	R171		10	RIN070		05	SA011		21	SRRC		23	WE20		07	YR0		24						
PHW0		29	R181		10	RINC80		05	SA021		21	STICKY1		20	WE30		07	Y501		19						
PHW1		29	R191		10	RINC90		05	SA031		21	STPO		26	WE4C		07	Y511		19						
PLE10		28	R201		10	RIN100		05	SA041		21	STPPSYNO		28	WE50		07	Y521		19						
PLE20		28	R211		10	RIN110		05	SA051		21	STPSYNO		28	WE60		07	Y531		19						
PDW0		24	R221		10	RIN120		05	SA061		21	SWTC		25	WE7C		07	Y5Z1		19						
PRACK0		28	R231		10	RIN130		05	SA071		21	SYNO		29	WRTCLK0		26	YX01		19						
PRC0		24				RIN140		05	SA081		21	SYN1		29	WRTCLG1		03	YX11		19						
PRC1		24	R2MEB0		10	RIN150		05	SA091		21	TACK0		28	X001		18	YX21		19						
PRCLK1		26	R2MEH0		10	RLV00		24	SA101		21	TACK0AD		28	X011		18	YX31		19						
PRODD0E0		24	R322		31	RLV10		24	SA111		21	TAGWEO		10	X021		18	YXZ1		19						
PROM0		24	R372		31	RLV20		24	SBUSY0		28	TDRY0		26	X031		18	YXZF1		25						
PROMCEO		18	R402		31	RM305		24	SC00		05	TDRV1		26	X041		18	IS21		22						
PSR0		28	R411		31	RM319		26	SC01		03	TESCLRD		26	X051		18	IRMCLK0		28						
PSRCA0		28	R4702		23	RM4309		22	SC10		05	V001		11	X061		18	DMASTS0		22						
PSW101		14	R512		22	RM486		28	SC11		03	V011		11	X071		18	PSW121		14						
PSW111		14	R532		12	RMVF1		31	SC20		05	V021		11	X081		18	A15911		20						
PSW131		14	R552		12	ROUT000		05	SC21		03	V031		11	X091		18	ELFIN0		28						
PSW161		14	R582		31	ROUT010		05	SC30		05	V041		11	X101		18	A11910		24						
PSW171		14	RAS00		07	ROUT020		05	SC31		03	V051		11	X111		18	A24805		18						
PSW181		14	RAS0A0		07	ROUT030		05	SC40		05	V061		11	X121		18	A24905		18						
PSW211		14	RAS0B0		07	ROUT040		05	SC41		03	V071		11	X131		18	A29004		24						
PSW231		14	RASC1A0		07	ROUT050		05	SC50		05	V081		11	X141		18	A29005		24						
PSW241		14	RAS01B0		07	ROUT060		05	SC51		03	V091		11	X151		18	A9403		29						
PSW251		14	RAS10		07	ROUT070		05	SCATNO		30	V101		11	X15F1		14	A9411		29						
PSW261		14	RAS10A0		07	ROUT080		05	SCHK0		29	V111		11	XN2F0		14	CIN0		24						
PSW271		14	RAS10B0		07	ROUT090		05	SCLRD		31	V121		11	XRO		24	CINF1		14						
PSYNO		29	RAS11A0		07	ROUT100		05	SCLRBD		31	V131		11	XRPJ1		31	DSTOP0		28						
PSYNI		29	RAS11B0		07	ROUT110		05	SCLRBD0		31	V141		11	XTOE0		24	ENDPHW1		29						

REVISIONS			
AREA L7, ADDED MNEMONIC "IS21" WITH SHT "22".	KR	KR	3335 MS 11-14-83 RO1
AREA C0, DELETE "R2MDIR0" SHT "16". AREA L7, ADDED NETS IRMCLK0, DMASTS0, PSW121 & 15911.	KR	KR	5360 M 11-25-83 RO2 X
AREA L8, ADDED NET LFIN0, SHT 28.	KE	KE	5575 MS 12-14-83 RO3 X
AREA L9, ADDED MNEMONICS A11910 THRU SR2Q151 AND HT. #'S.	HH	KR	5606 M 1-12-84 RO4
AREA L9 & M1, ADDED MNEMONICS IRCNTE0 THRU A21308 AND SHT. #'S.	VT	KR	5614 MS 1-16-84 RO5 X
AREA M1, ADDED MNEMONICS IEN0, CLKSTP0 AND SHT #'S.	KE	KE	5630 MS 2-23-84 RO6 X
AREA M1, ADDED MNEMONICS BCNT11 & BCNT01 & SHT #'S.	HH	GU	5657 MS 4-9-84 RO7 X

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TITLE
CPU

DRAFTER
K. REED

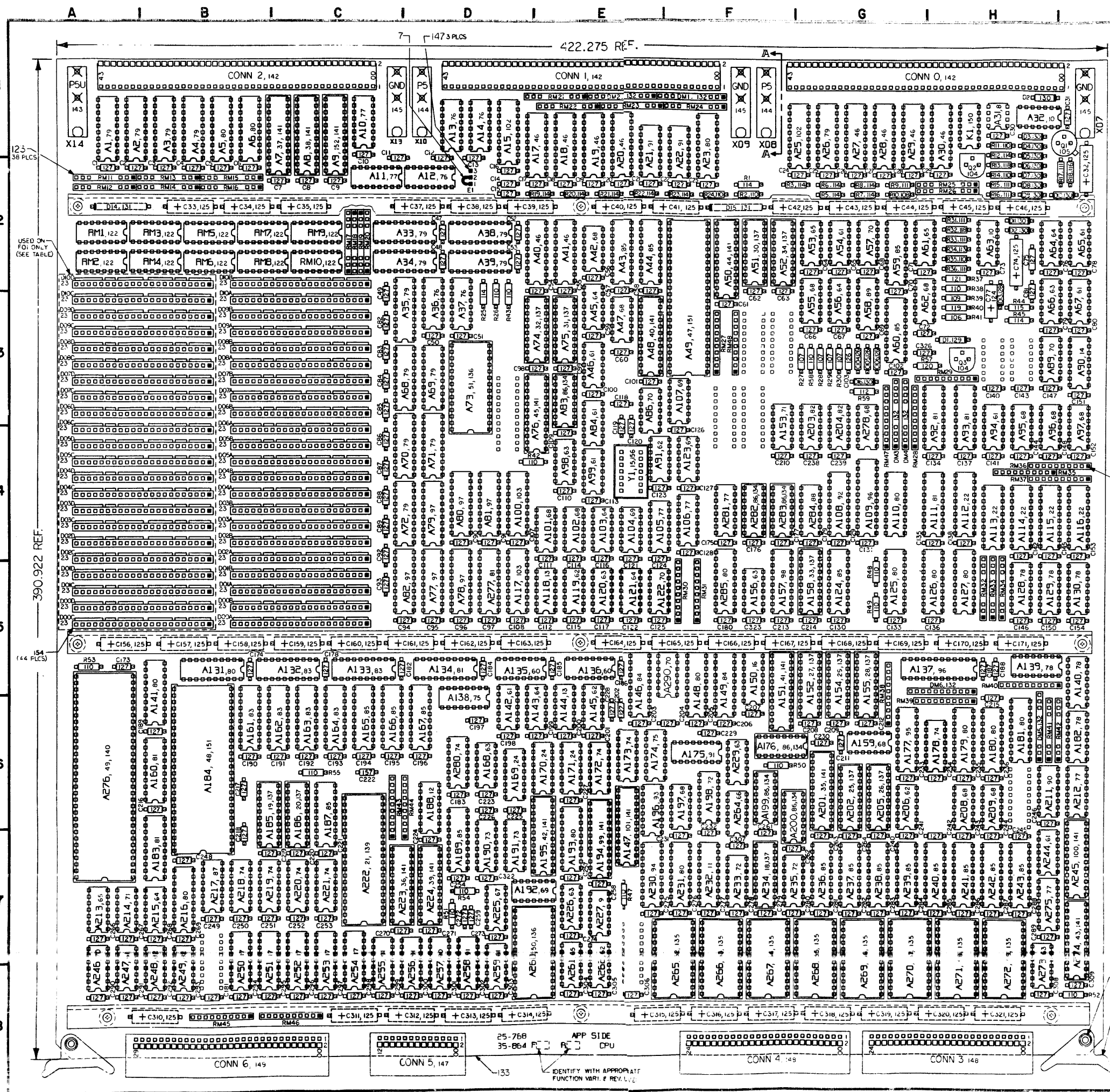
DATE
11-10-83

TASK 03076
DWG 35-864 RO 1

SHT
34-34

BRUNING 44 131 40579-2

NOTES



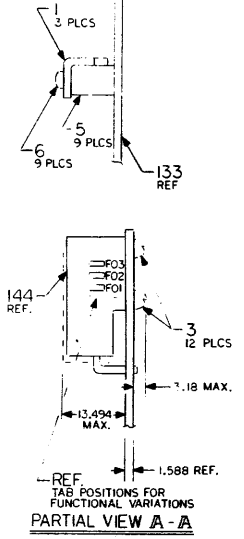
REVISIONS

ADDED IC A290 TO AREA E5
IC A290 WAS A 20 PIN IC. CHG. TO A290
VT RCZ 5606 MS 1-11-84 RCI

PRE PRODUCTION APPROVAL	INIT DEV PROD	DATE
		1/23/84

AREA A2 F01 ONLY WAS F00 ONLY. AREA E5 (HRI, TABL, F00) WAS SPECIFIED AS F01. F01 IS F00. ADDED F02-F04.

AREA D2 STRAP WAS CONNECTED TO ENTIRE AREA A5 ITEM 154
WH. 254
NH 271 5641 24 2-2-80 RCI



FILLED IN PAD INDICATES PIN 1 OF ALL RESISTOR MODULES, DIODE MODULES AND MEMORY MODULES.

35-864 F02-F04	LO MB	SEE 35-864 D12
35-864 F01	I.OMB	AS SHOWN
35-864 F00	O.5 MB	AS SHOWN, LESS COMPONENTS IN DOTTED AREA

PART NO.	TITLE	DESCRIPTION
VARIATION TABLE		
	MILLIMETERS	INCHES
	1.588	.060
	3.18	.125
	13.499	.530
	390.922	15.405
	422.275	16.630

METRIC

USED IN MANUAL: 47-068

UNLESS OTHERWISE SPECIFIED

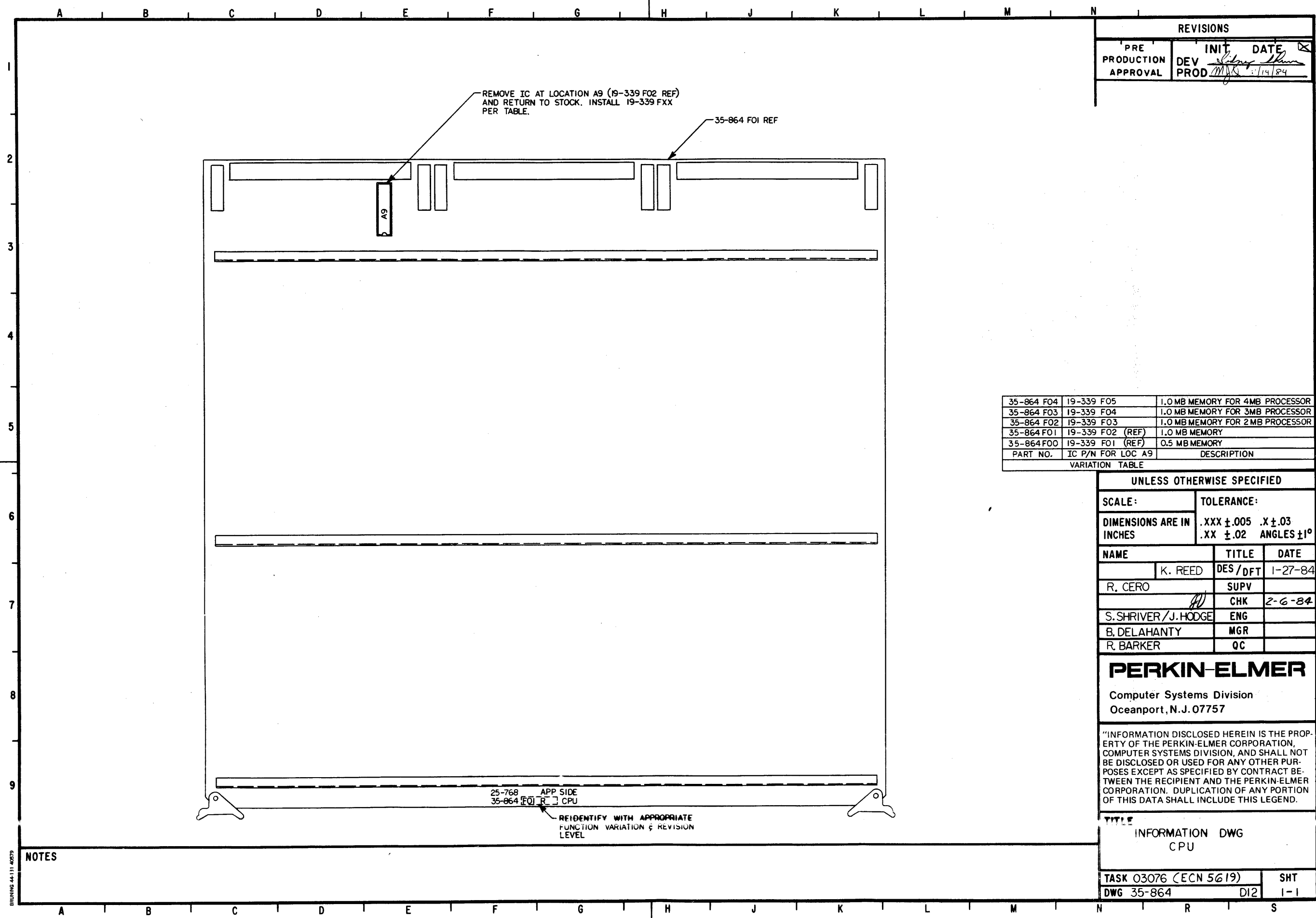
SCALE: 2:1	TOLERANCE:
DIMENSIONS ARE IN INCHES	.XXX ± .005 .X ± .03 .XX ± .02 ANGLES ± 1°

NAME	TITLE	DATE
M. TAHAMONT	DES / DFT	12-3-83
R. CERO	SUPV	12-20-83
	CHK	
S. SHRIVER/J. HODGE	ENG	
B. DELAHANTY	MGR	
R. BARKER	QC	

PERKIN-ELMER
Computer Systems Division
Oceanport, N.J. 07757

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TITLE	ASSEMBLY DRAWING
CPU	
TASK	03076
DWG	35-864 RC3 E03
SHT	1-1



REVISIONS		
PRE PRODUCTION APPROVAL	INIT DEV PROD	DATE
		1/14/84

PART NO.	IC P/N FOR LOC A9	DESCRIPTION
35-864 F04	19-339 F05	1.0 MB MEMORY FOR 4MB PROCESSOR
35-864 F03	19-339 F04	1.0 MB MEMORY FOR 3MB PROCESSOR
35-864 F02	19-339 F03	1.0 MB MEMORY FOR 2MB PROCESSOR
35-864 F01	19-339 F02 (REF)	1.0 MB MEMORY
35-864 F00	19-339 F01 (REF)	0.5 MB MEMORY

VARIATION TABLE

UNLESS OTHERWISE SPECIFIED		
SCALE:	TOLERANCE:	
DIMENSIONS ARE IN INCHES	.XXX ±.005 .X ±.03 .XX ±.02 ANGLES ±1°	
NAME	TITLE	DATE
K. REED	DES/DFT	1-27-84
R. CERO	SUPV	
	CHK	2-6-84
S. SHRIVER/J. HODGE	ENG	
B. DELAHANTY	MGR	
R. BARKER	QC	

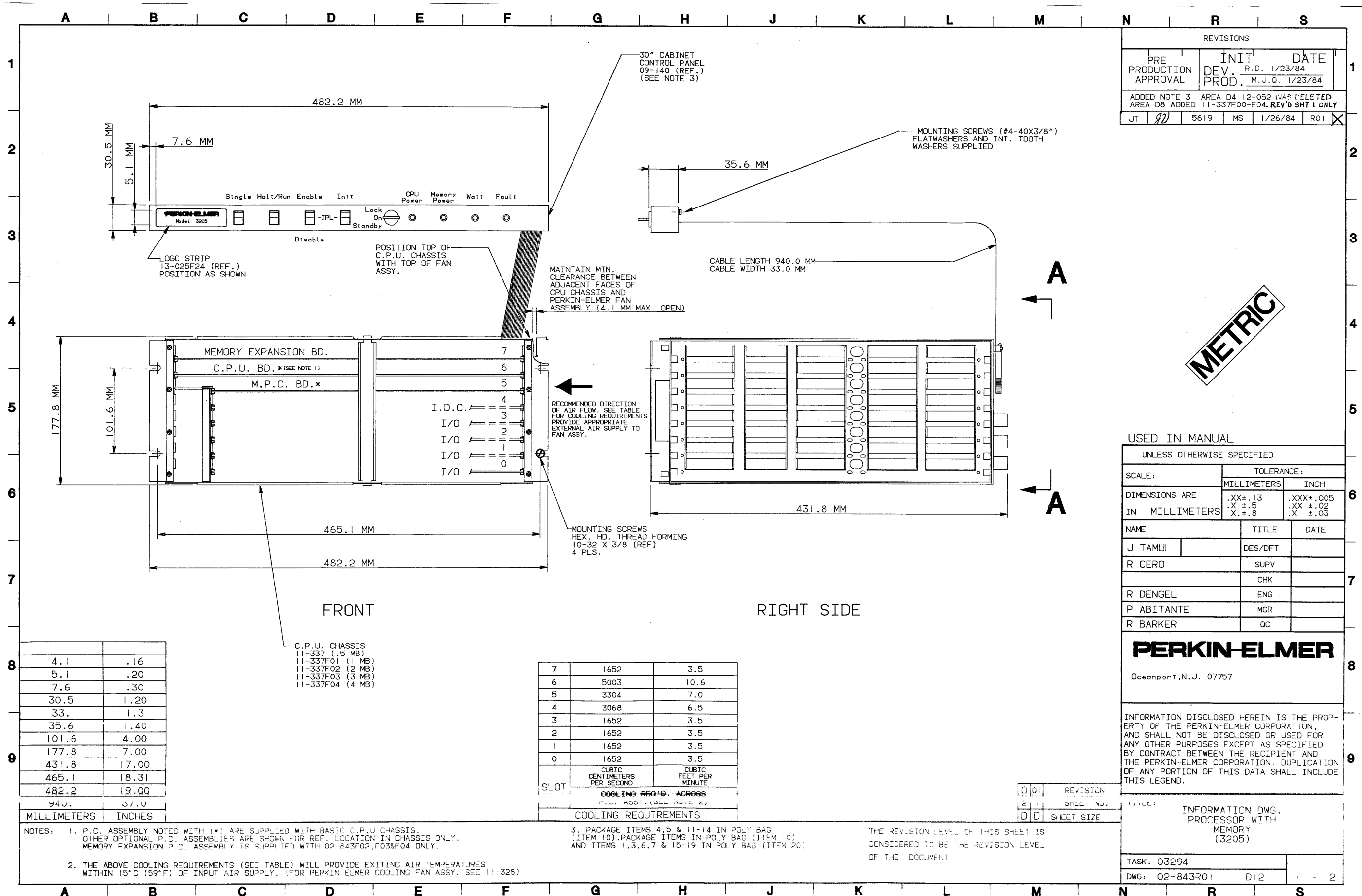
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 Computer Systems Division
 Oceanport, N.J. 07757

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TITLE	
INFORMATION DWG CPU	
TASK 03076 (ECN 5619)	SHT
DWG 35-864	1-1

NOTES

DRAWING 44-111 40279



REVISIONS			
PRE PRODUCTION APPROVAL	INIT DEV. PROD.	DATE R.D. 1/23/84 M.J.O. 1/23/84	1
ADDED NOTE 3 AREA D4 12-052 WAS DELETED AREA D8 ADDED 11-337F00-F04, REV'D SHT 1 ONLY			
JT	W	5619 MS	1/26/84 R01 X

METRIC

USED IN MANUAL

UNLESS OTHERWISE SPECIFIED		
SCALE:	TOLERANCE:	
	MILLIMETERS	INCH
DIMENSIONS ARE	.XX ± .13	.XXX ± .005
IN MILLIMETERS	.X ± .5	.XX ± .02
	X ± .8	.X ± .03
NAME	TITLE	DATE
J TAMUL	DES/DFT	
R CERO	SUPV	
	CHK	
R DENGEL	ENG	
P ABITANTE	MGR	
R BARKER	QC	

4.1	.16
5.1	.20
7.6	.30
30.5	1.20
33.	1.3
35.6	1.40
101.6	4.00
177.8	7.00
431.8	17.00
465.1	18.31
482.2	19.00
940.	37.0
MILLIMETERS	INCHES

SLOT	CUBIC CENTIMETERS PER SECOND	CUBIC FEET PER MINUTE
7	1652	3.5
6	5003	10.6
5	3304	7.0
4	3068	6.5
3	1652	3.5
2	1652	3.5
1	1652	3.5
0	1652	3.5
	CUBIC CENTIMETERS PER SECOND	CUBIC FEET PER MINUTE
	COOLING REQ'D. ACROSS FAN ASSEMBLY (SEE NOTE 2)	
	COOLING REQUIREMENTS	

NOTES: 1. P.C. ASSEMBLY NOTED WITH (*) ARE SUPPLIED WITH BASIC C.P.U. CHASSIS. OTHER OPTIONAL P.C. ASSEMBLIES ARE SHOWN FOR REF. LOCATION IN CHASSIS ONLY. MEMORY EXPANSION P.C. ASSEMBLY IS SUPPLIED WITH 02-843F02, F03&F04 ONLY.

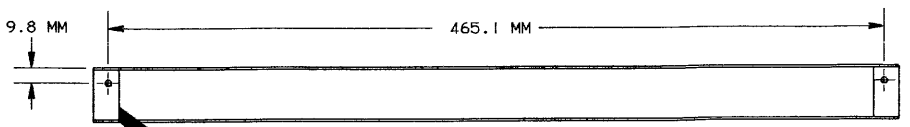
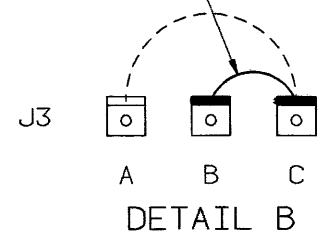
2. THE ABOVE COOLING REQUIREMENTS (SEE TABLE) WILL PROVIDE EXITING AIR TEMPERATURES WITHIN 15°C (59°F) OF INPUT AIR SUPPLY. (FOR PERKIN-ELMER COOLING FAN ASSY. SEE 11-328)

3. PACKAGE ITEMS 4, 5 & 11-14 IN POLY BAG (ITEM 10). PACKAGE ITEMS IN POLY BAG (ITEM 10) AND ITEMS 1, 3, 6, 7 & 15-19 IN POLY BAG (ITEM 20).

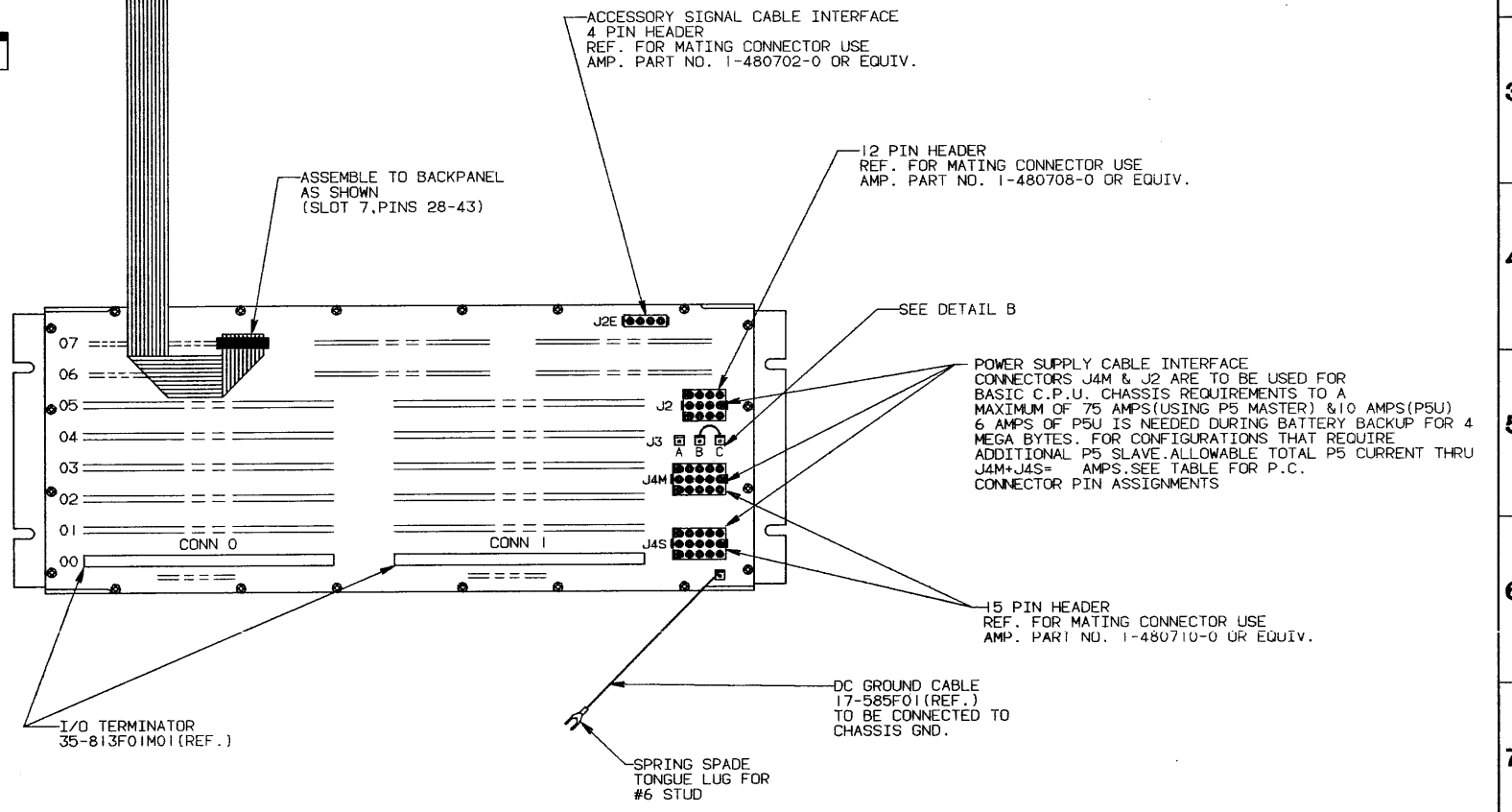
THE REVISION LEVEL OF THIS SHEET IS CONSIDERED TO BE THE REVISION LEVEL OF THE DOCUMENT

P.C. ASSY. POWER REQUIREMENTS (AMPS)							
SLOT NO.	P.C. ASSEMBLY	P5	PSU				
			512KB	1MB	2MB	3MB	4MB
07	MEM EXP	1.0	-	-	4.5	6.5	8.6
06	CPU	18.0	3.6	4.6	4.6	4.6	4.6
05	MPC	12.0					
04	I.D.C	11.0					
03	I/O	7.0					
02	I/O	7.0					
01	I/O	7.0					
00	I/O	7.0					

JUMPER 17-584 (REF.)
CONNECT JUMPER FROM POSITION B TO C WHEN POWER SUPPLY WITH P5 ONLY IS USED.
CONNECT JUMPER FROM POSITION A TO C WHEN POWER SUPPLY WITH P5/PSU IS USED.



CONTROL PANEL (REAR)



VIEW A-A
(BACKPANEL APP. SIDE)

P5 CONTROL	ON/OFF CONTROL OF P5 THROUGH THE KEY SWITCH
OVERTEMPERATURE PROTECTION	P5 SHUT DOWN TEMPERATURE 105° C ± 5° (221° F ± 41° F) P5 RESET TEMPERATURE 80° C ± 6° (176° F ± 42.8° F)
OUTPUT SIGNALS TO THE BACKPANEL FROM DPSC	PFDT0 OUTPUT POWER FAIL DETECT LOGIC LEVELS: 1... OPEN CIRCUIT WITH PULL-UP TO PSU THROUGH 860 OHMS (ON CPU BOARD) •... 1.2 VOLTS MAXIMUM WITH A 10mA CURRENT SINK
	2XLF1 TWICE LINE FREQUENCY CLOCK SIGNAL OUTPUT LOGIC LEVELS: 1... APPROXIMATELY 1 MILLISECOND WIDE PULSE EVERY 8.3 MILLISECONDS WITH A SOURCE RESISTANCE OF 1 KOHMS •... 1 VDC MAXIMUM MAXIMUM LOADING... NO MORE THAN 2 STANDARD LINE FREQUENCY CLOCK MODULES OR UNIVERSAL CLOCK MODULES ATTACHED TO THE CPU BACKPANEL
P5 & PSU OVERVOLTAGE LIMITING	6.0 VOLTS MAX. AT SENSE POINTS
P5 & PSU 120 Hz RIPPLE	60 MILLIVOLTS(DC TO 20 MHz) PEAK TO PEAK MAX. (0-50° C)(132-122° F) NO LOAD TO FULL LOAD MEASURED AT SENSE POINTS WITH DIFFERENTIAL PROBE
P5 & PSU LOAD, LINE, TEMPERATURE & DYNAMIC LOADING REGULATION	± 5% AT ANY POINT ON BOARD (LOAD)
P5U SENSE POINT LOCATION ON BACKPANEL	CONNECTOR J2
P5 SENSE POINT LOCATION ON BACKPANEL	CENTER OF SLOT ON APP. SIDE
VOLTAGE AT SENSE POINTS	5.08 VOLTS ± 10 MILLIVOLTS
REMOTE SENSE POINTS	PROVIDE AT BACKPANEL TO OVERCOME VOLTAGE DROP FROM POWER SUPPLY TO BACKPANEL
REQUIREMENT	DESCRIPTION
CHASSIS POWER REQUIREMENTS	

PIN NO.	J2 (12 PIN)	J4M (15 PIN)	J4S (15 PIN)
15	-	P5	P5
14	-	P5	P5
13	-	P5	P5
12	P5U	P5	P5
11	P5U SENSE	P5	P5
10	P5U	P5	P5
09	P5U GND	P5 SENSE GND	P5 SENSE GND
08	P5U SENSE GND	CHS GND	CHS GND
07	P5U GND	P5 SENSE	P5 SENSE
06	-	P5 GND	P5 GND
05	-	P5 GND	P5 GND
04	FFLT0	P5 GND	P5 GND
03	2XLF1	P5 GND	P5 GND
02	PFDT0	P5 GND	P5 GND
01	KSON0	P5 GND	P5 GND
BACKPANEL CONNECTOR (P.C. HEADER)			

CONN. PIN ASSIGNMENT

PERKIN-ELMER
Oceanport, N.J. 07757

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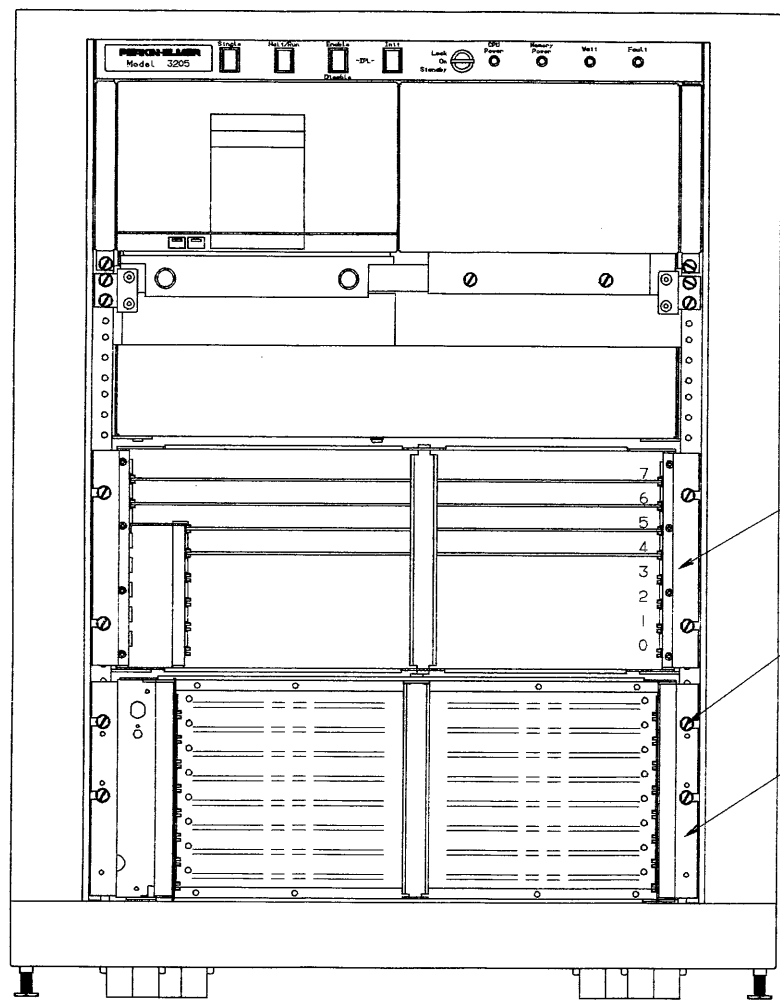
TITLE: INFORMATION DWG. PROCESSOR (3205)

DRAFTER	J TAMULEVICIUS
DATE	TASK: 03294
DWG: 02-843	D12 2 - 2

A B C D E F G H J K L M N R S

1
2
3
4
5
6
7
8
9

REVISIONS		
PRE PRODUCTION APPROVAL	INIT	DATE
	DEV. <i>[Signature]</i>	9/30/83
	PROD. <i>[Signature]</i>	10/2/83

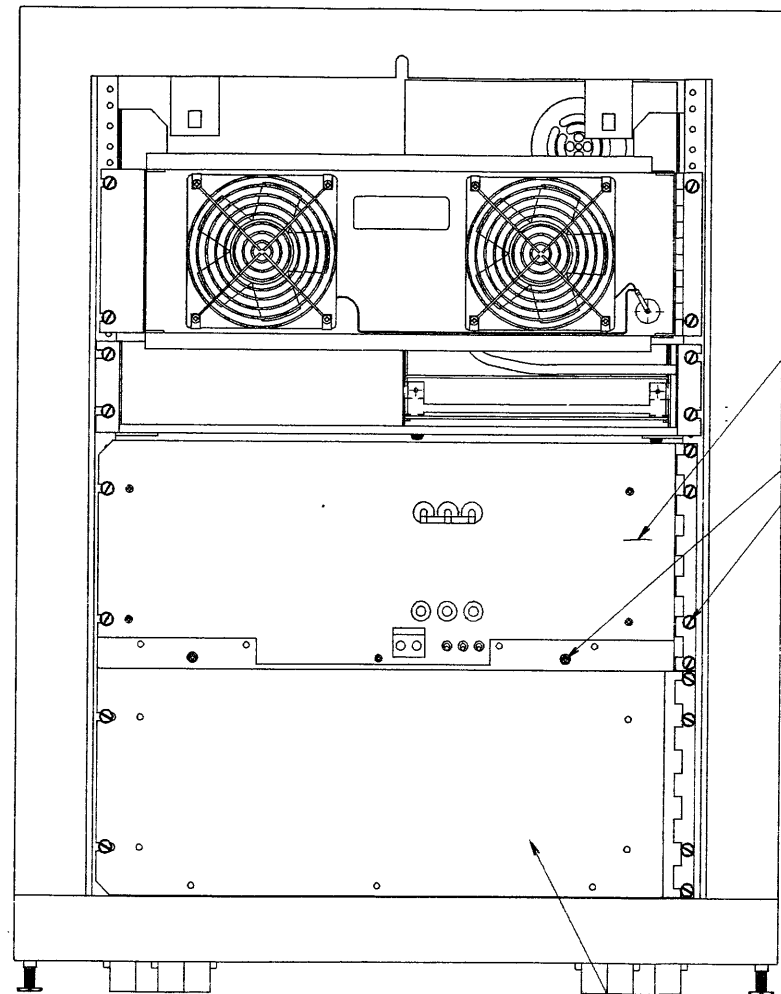


CPU CHASSIS^{REF}

MOUNTING SCREW
THREAD FORMING
#10-32X3/8
(4 SUPPLIED)

I/O CHASSIS
12-053^{REF}

FRONT VIEW



PWR. EXP. MASTER (P5)^{REF.1}

MOUNTING KIT. 16-871
FROM 02-744^{REF}

POWER EXP. SLAVE
02-744^{REF}

REAR VIEW

DOMESTIC 208V & INTERNATIONAL 230V
ONLY

USED IN MANUAL

UNLESS OTHERWISE SPECIFIED		
SCALE:	TOLERANCE:	
3/8	MILLIMETERS	INCH
DIMENSIONS ARE	.XX±.13	.XXX±.005
IN MILLIMETERS	.X ±.5	.XX ±.02
	X ±.8	.X ±.03
NAME	TITLE	DATE
J TAMUL	DES/DFT	6/20/83
R CERO	SUPV	
	CHK	
R DENGEL	ENG.	
P ABITANTE	MGR	
R BARKER	QC	

PERKIN-ELMER
Oceanport, N.J. 07757

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NOTES:

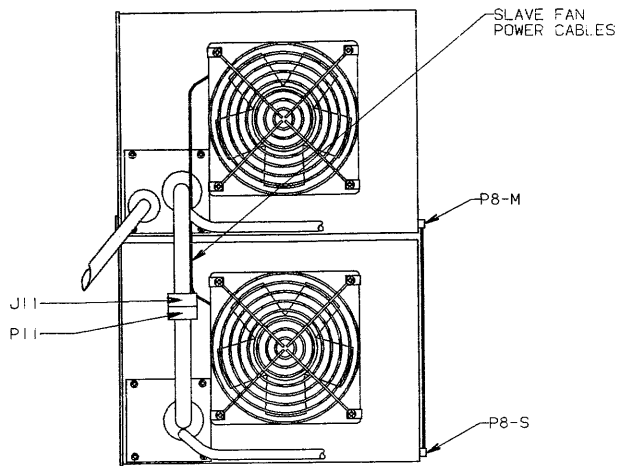
THE REVISION LEVEL OF THIS SHEET IS CONSIDERED TO BE THE REVISION LEVEL OF THE DOCUMENT

1010	REVISION
1010	SHEET SIZE

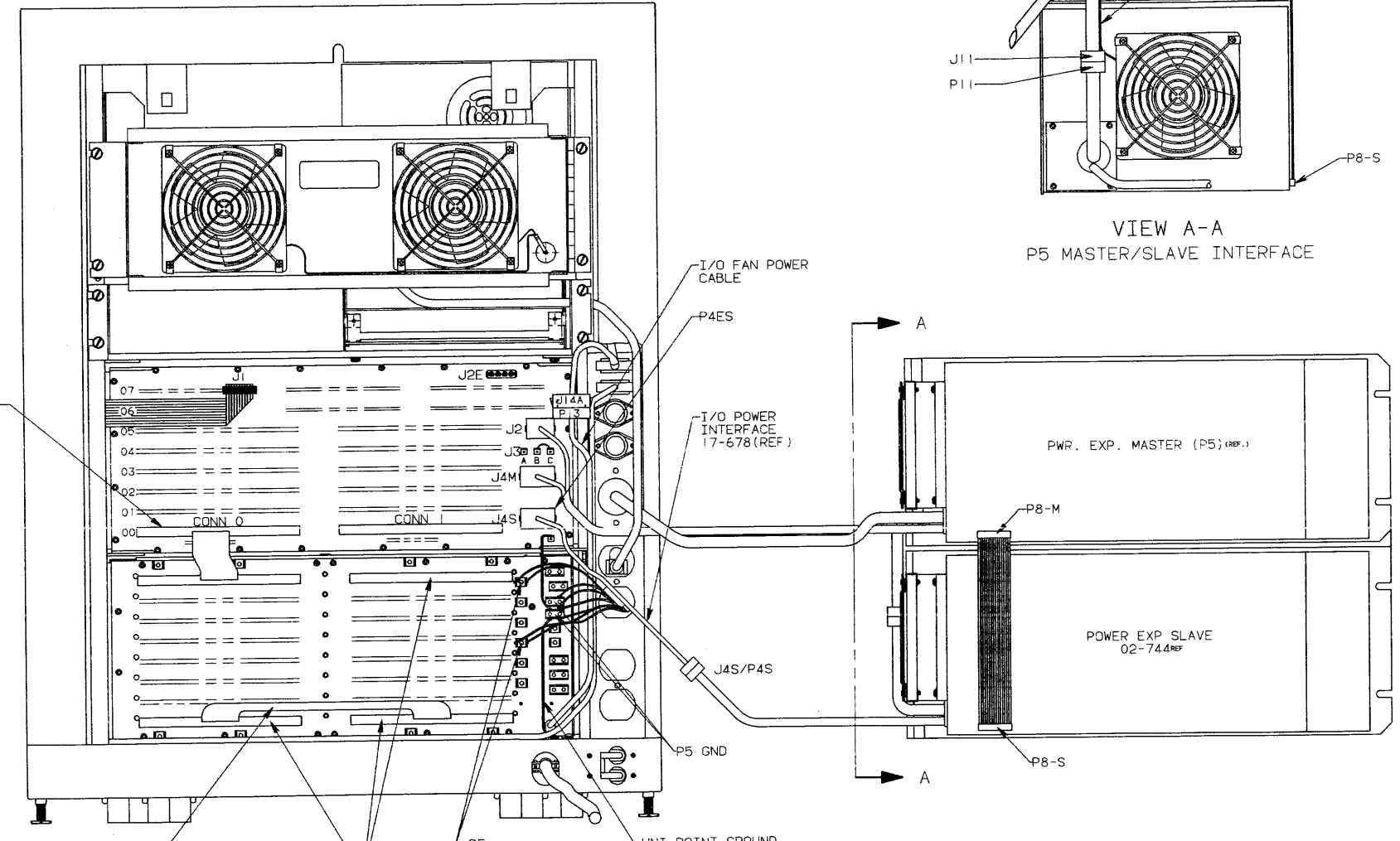
INFORMATION DWG I/O EXPANSION 3205	
TASK: 03294	
DWG: 02-865	D12 1 - 2

A B C D E F G H J K L M N R S

REVISIONS



VIEW A-A
P5 MASTER/SLAVE INTERFACE



REAR VIEW

35-813F01M01
TERMINATOR
REPLACED WITH
17-193M02
FIELD 0 TO
FIELD 0 I/O
EXPANSION (REF.)

CABLE TRANSMISSION
17-464F02 (REF.)

I/O TERMINATOR
35-813F01M01 (REF.)

I/O FAN POWER
CABLE

P4ES

I/O POWER
INTERFACE
17-678 (REF.)

PWR. EXP. MASTER (P5) (REF.)

POWER EXP SLAVE
02-74.4REF

POWER SUPPLY & POWER EXP SLAVE
REMOVED FROM CABINET
TO CLARIFY DWG

PERKIN-ELMER

Oceanport, N.J. 07757

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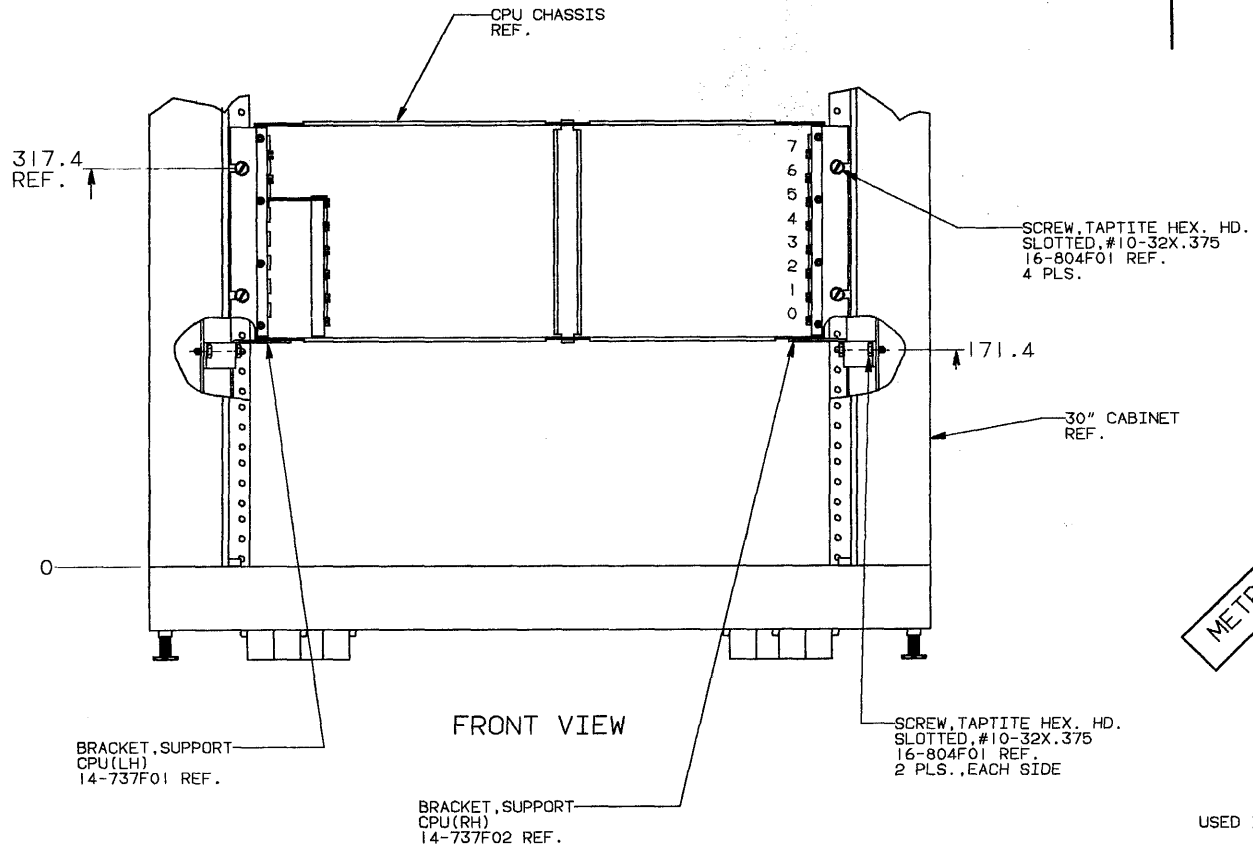
TITLE:
INFORMATION DWG
I/O EXPANSION
3205

NOTES:

DRAFTER	
Q STINE	
DATE	TASK: 03294
8-22-83	DWG: 02-865 D12 2 - 2

MILLIMETERS	INCHES
171.4	6.75
317.4	12.50

REVISIONS		
PRE-PRODUCTION APPROVAL	INITIALS	DATE
	DEV	7/13/83
	PROD	7/13/83



METRIC

USED IN MANUAL

PERKIN-ELMER

Deerport, N.J. 07757

UNLESS OTHERWISE SPECIFIED

SCALE:	TOLERANCE:	
	MILLIMETERS	INCHES
DIMENSIONS ARE IN	.XX ± .13	.XXX ± .005
MILLIMETERS	.X ± .5	.XX ± .02
	X ± .8	X ± .03

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NOTES:

NAME	TITLE	DATE
J TAMUL	DES/DFT	7/13/83
R CERO	SUPV	
	CHK	
R DENGEL	ENG	
P ABITANTE	MGR	
R BARKER	QC	

TITLE:
KIT, CHASSIS MTG. 30" CABINET
TASK 03294
DWG: 16-946 C12
1 - 1

REVISIONS

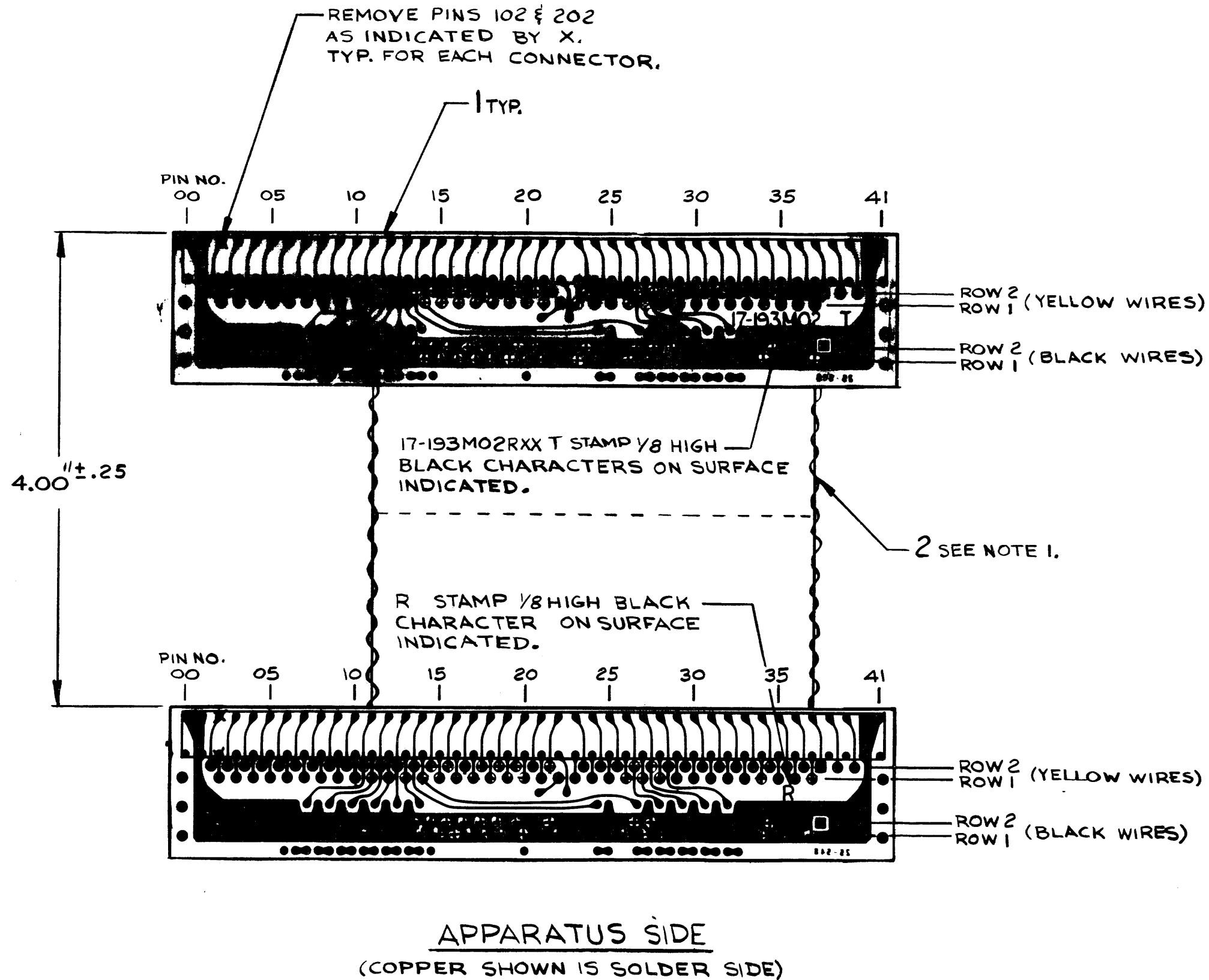
RELEASED FOR PRODUCTION
MFG. ENG. *R.L. Gandy* DATE *9/15/77*

CONNECTORS WERE ITEM 3.
W.W.S WERE ITEM 4.

GM *JV* 3538 1-23-78 RO1

ADDED WW STAKES AT
AREAS H3,4,7&8. (4 TOTAL)

JAT *JM* L19011-8 3-20-81 RO2



NOTES
1. MAINTAIN 3 TWISTS PER INCH (MIN.) ON ALL T/P WIRES.

SCALE - 1:1

TOLERANCE:	
.XXX	± .008
XX	± .02
X	± .03
ANGLES	± 1°
UNLESS OTHERWISE SPECIFIED	

NAME	TITLE	DATE	TITLE CABLE ASS'Y
P. EDWARDS	DRAFT	4-26-77	FIELD 0 TO FIELD 0
R. CERO	CHK	6-22-77	I/O 15" CHASSIS
J. BARRETT	ENGR	8-16-77	
R. BARKER	Q.C.	6-21-77	TASK NO. 03077
P. ABITANTE	MGR	5-16-77	DWG NO. 17-193M02R02B03

SHEET OF 1-1

A B C D E F G H J K L M N R S

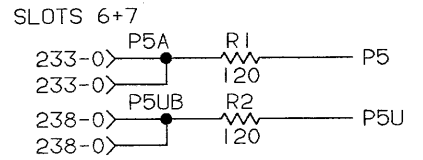
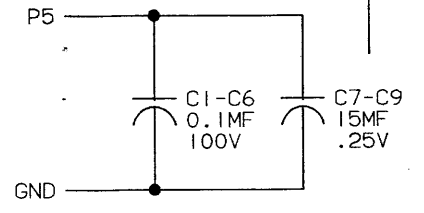
REVISIONS		
PRE PRODUCTION APPROVAL	INIT DEV. <i>[Signature]</i>	DATE 3/11/84

J2E	
PIN	FUNCTION
01	C4
02	PFDT0
03	2XLF
04	

J3		
A	B	C
SPARE	P5	PSU

J2	
PIN	FUNCTION
01	C4
02	PFDT0
03	2XLF
04	
05	
06	GND
07	GND SENSE
09	GND
10	PSU
11	PSU SENSE
12	PSU

J4M, J4S	
PIN	FUNCTION
01	GND
02	GND
03	GND
04	GND
05	GND
06	GND
07	P5 SENSE
08	CHS. GND
09	GND SENSE
10	P5
11	P5
12	P5
13	P5
14	P5
15	P5



USED IN MANUAL 47-068

CONN 0				CONN 1				CONN 2							
PIN	ROW 1	FUNCTION	LOCATION	PIN	ROW 2	FUNCTION	LOCATION	PIN	ROW 1	FUNCTION	LOCATION	PIN	ROW 2	FUNCTION	LOCATION
43	GND			43	GND			43				43			
42	GND			42	GND			42				42			
41				41	SC01	S		41	SC11	S		41			
40	GND			40	SC21	S		40	SC31	S		40			
39	GND			39	SC41	S		39	SC51	S		39			
38	KEYED			38	PSUB			38	CB01	R		38			
37	GND			37	C4			37	GND			37			
36	GND			36	POFF0			36	CB21	R		36			
35	GND			35	WAIT0			35	CB31	R		35			
34	GND			34	FAULT0			34	CB41	R		34			
33	GND			33	P5A			33	CB51	R		33			
32	GND			32	SNGL0			32	GND			32			
31	GND			31	PFDT0	S		31	E010	S/R		31			
30	GND			30	RCATNO	R		30	E030	S/R		30			
29	GND			29	SCATNO	R		29	E050	S/R		29			
28	GND			28	LSU1	R		28	E070	S/R		28			
27				27				27	GND			27			
26	SCLR0	S		26	HWO	R		26	PHNO	R		26			
25				25				25	SCHKO	R		25			
24				24				24	SBUSY0	R		24			
23	SYNO	R		23	ATNO	R		23	PATNO	R		23			
22				22	TACK0	S		22	PTACK0	S		22			
21	CLO70	S		21	DAO	S		21	PDA0	S		21			
20	DRO	S		20	CMDO	S		20	PCMD0	S		20			
19	SRO	S		19	ADRS0	S		19	PADRS0	S		19	GND		
18	D140	S/R		18	D150	S/R		18	PD150	S/R		18	WE60	S	
17	D120	S/R		17	D130	S/R		17	PD130	S/R		17	WE40	S	
16	D100	S/R		16	D110	S/R		16	PD110	S/R		16	WE20	S	
15	D080	S/R		15	D090	S/R		15	PD090	S/R		15	GND		
14	D060	S/R		14	D070	S/R		14	PD070	S/R		14	CAS60	S	
13	D040	S/R		13	D050	S/R		13	PD050	S/R		13	CAS40	S	
12	D020	S/R		12	D030	S/R		12	PD030	S/R		12	CAS20	S	
11	D000	S/R		11	D010	S/R		11	PD010	S/R		11	GND		
10				10				10	GND			10	RAS20	S	
09				09				09	E090	S/R		09	RAS00	S	
08				08	GND			08	E111	S/R		08	GND		
07				07				07	E131	S/R		07	MX80	S	
06				06				06	E151	S/R		06	GND		
05				05				05	GND			05	MX60	S	
04				04	DOE	S		04	MEMCLK0	S		04	MX40	S	
03				03				03				03	GND		
02				02				02	WECLK			02	MX20	S	
01	GND			01	GND			01	GND			01	MX00	S	
00	GND			00	GND			00	GND			00	GND		

NOTES: 1. S = SENDER
R = RECEIVER
S/R = SENDER RECEIVER

SLOTS 6 THROUGH 7

UNLESS OTHERWISE SPECIFIED		
SCALE:	TOLERANCE:	
	MILLIMETERS	INCH
DIMENSIONS ARE IN	.XX±.13 .X ±.5 .X ±.8	.XXX±.005 .XX ±.02 .X ±.03
NAME	TITLE	DATE
@ STINE @ STINE	DES/DFT	1/27/84
R CERO	SUPV	
	CHK	
S BASTIAN	ENG	
P BALAS	MGR	
R BARKER	QC	
PERKIN-ELMER		
Oceanport, N.J. 07757		
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3205 BACKPANEL

TASK 03076, ECR 5619
DWG: 01-262 D08 1 - 2

A B C D E F G H J K L M N R S

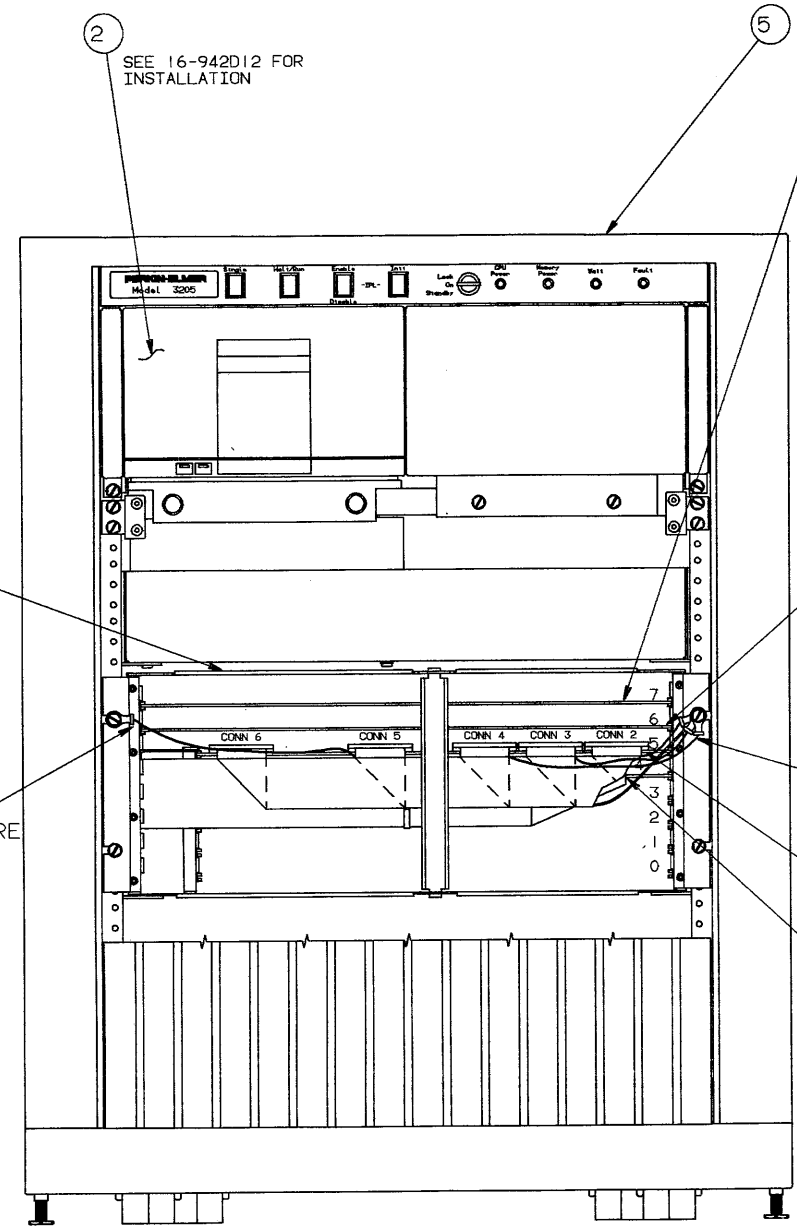
	A	B	C	D	E	F	G	H	J	K	L	M	N	R	S	
	SLOT 0 CONN 1				SLOT 1 THRU 4 CONN 1				SLOT 5 CONN 1				REVISIONS			
1	PIN	ROW 1	FUNCTION	LOCATION	PIN	ROW 2	FUNCTION	LOCATION	PIN	ROW 1	FUNCTION	LOCATION	PIN	ROW 2	FUNCTION	LOCATION
	41	P5			41	GND			41	P5			41	GND		
	40	GND			40	GND			40	GND			40	GND		
	39				39				39				39			
	38				38				38				38			
	37				37	GND			37				37	GND		
	36				36				36				36			
	35				35				35				35			
	34				34				34				34			
	33				33				33				33			
	32				32				32				32			
	31				31				31				31			
	30				30				30				30			
	29				29				29				29			
	28				28				28				28			
	27	GND			27	GND			27	GND			27	GND		
	26	SCLRO	R		26	SCLRO	R		26	SCLRO	R		26	SCLRO	R	
	25				25				25				25			
	24	SENSO	S		24	SCHKO	S		24	SENSO	S		24	PHWO	S	
	23	SYNO	S		23	SCHKO	S		23	PSYNO	S		23	SCHKO	S	
	22	RACKO	R		22	SBUSYO	R		22	RACKO	R		22	SBUSYO	R	
	21	CL070	R		21	ATNO	S		21	PSYNO	S		21	PATNO	S	
	20	DRO	R		20	TACKO	S		20	RACKO	R		20	PTACKO	S	
	19	SRO	R		19	DAO	R		19	CL070	R		19	PDAO	R	
	18	D140	S/R		18	CMDO	R		18	DRO	R		18	PCMDO	R	
	17	D120	S/R		17	ADRSO	R		17	SRO	R		17	PADRSO	R	
	16	D100	S/R		16	D140	S/R		16	D140	S/R		16	PD140	S/R	
	15	D080	S/R		15	D120	S/R		15	D120	S/R		15	PD120	S/R	
	14	D060	S/R		14	D100	S/R		14	D100	S/R		14	PD100	S/R	
	13	D040	S/R		13	D080	S/R		13	D080	S/R		13	PD080	S/R	
	12	D020	S/R		12	D060	S/R		12	D060	S/R		12	PD060	S/R	
	11	D000	S/R		11	D040	S/R		11	D040	S/R		11	PD040	S/R	
	10				10	D020	S/R		10	D020	S/R		10	PD020	S/R	
	09				09	D000	S/R		09	D000	S/R		09	PD000	S/R	
	08				08				08				08			
	07				07	GND			07				07	GND		
	06				06				06				06			
	05				05				05				05			
	04				04				04				04			
	03				03				03				03			
	02				02				02				02			
	01	GND			01	GND			01	GND			01	GND		
	00	P5			00	P5			00	P5			00	P5		
	CONN 0				CONN 0				CONN 0				CONN 0			
6	PIN	ROW 1	FUNCTION	LOCATION	PIN	ROW 2	FUNCTION	LOCATION	PIN	ROW 1	FUNCTION	LOCATION	PIN	ROW 2	FUNCTION	LOCATION
	41	P5			41	GND			41	P5			41	GND		
	40	GND			40	GND			40	GND			40	GND		
	39				39				39				39			
	38				38				38				38			
	37				37				37				37			
	36	GND			36	GND			36	GND			36	GND		
	35				35				35				35			
	34				34				34				34			
	33				33				33				33			
	32				32				32				32			
	31				31				31				31			
	30				30				30				30			
	29	GND			29	GND			29	GND			29	GND		
	28				28				28				28			
	27				27				27				27			
	26	SCLRO	R		26	SCLRO	R		26	SCLRO	R		26	SCLRO	R	
	25				25				25				25			
	24				24				24				24			
	23	SYNO	S		23	ATNO	S		23	SYNO	S		23	ATNO	S	
	22	RACKO	R	SEE NOTE 2	22	TACKO	S		22	RACKO	R		22	TACKO	S	
	21	CL070	R		21	DAO	R		21	CL070	R		21	DAO	R	
	20	DRO	R		20	CMDO	R		20	DRO	R		20	CMDO	R	
	19	SRO	R		19	ADRSO	R		19	SRO	R		19	ADRSO	R	
	18	D140	S/R		18	D140	S/R		18	D140	S/R		18	D140	S/R	
	17	D120	S/R		17	D120	S/R		17	D120	S/R		17	D120	S/R	
	16	D100	S/R		16	D100	S/R		16	D100	S/R		16	D100	S/R	
	15	D080	S/R		15	D080	S/R		15	D080	S/R		15	D080	S/R	
	14	D060	S/R		14	D060	S/R		14	D060	S/R		14	D060	S/R	
	13	D040	S/R		13	D040	S/R		13	D040	S/R		13	D040	S/R	
	12	D020	S/R		12	D020	S/R		12	D020	S/R		12	D020	S/R	
	11	D000	S/R		11	D000	S/R		11	D000	S/R		11	D000	S/R	
	10				10				10				10			
	09				09				09				09			
	08				08				08				08			
	07				07				07				07			
	06				06				06				06			
	05				05				05				05			
	04				04				04				04			
	03				03				03				03			
	02				02				02				02			
	01	GND			01	GND			01	GND			01	GND		
	00	P5			00	P5			00	P5			00	P5		
	CONN 0				CONN 0				CONN 0				CONN 0			
9	NOTES: 1. S = SENDER R = RECEIVER S/R = SENDER RECEIVER 2. SIGNALS TO BE WIRE WRAPPED, SLOT 0 THRU 5.															
													DRAFTER D STINE			
													DATE 1/27/84			
													TASK: 03076 DWG: 01-262 D08 2 - 2			
													TITLE: SCHEMATICS 3205 BACKPANEL			

PERKIN-ELMER
Oceanport, N.J. 07757

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A B C D E F G H J K L M N R S

1
2
3
4
5
6
7
8
9



FRONT VIEW

② SEE 16-942D12 FOR INSTALLATION

⑤ 01-262F00, F01 USE ITEM 16
01-263F00, F01

MEMORY EXPANSION (REF.)
35-865F02 (1 MB) BD. FOR 2 MB PROC.
35-865F03 (2 MB) BD. FOR 3 MB PROC.
35-865F04 (3 MB) BD. FOR 4 MB PROC.

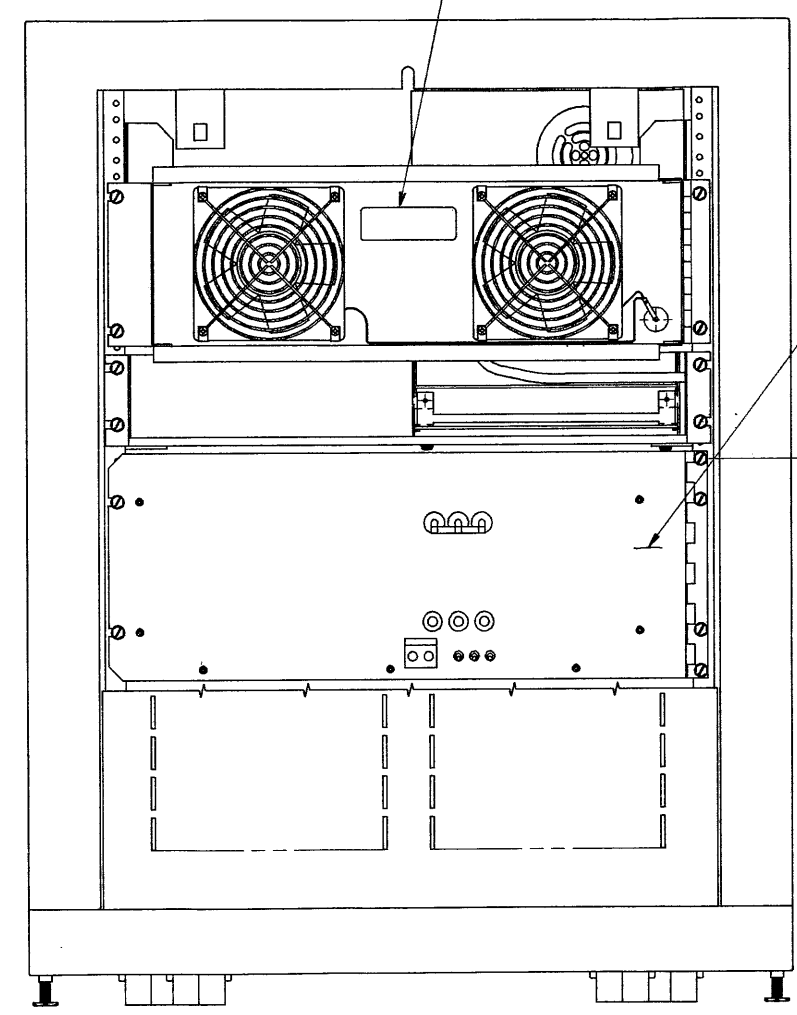
CPU BD. (REF.)
35-864 (.5 MB)
35-864F01 (1 MB)
35-864F02 (2 MB)
35-864F03 (3 MB)
35-864F04 (4 MB)

CABLE DRAIN WIRES

MPC BD. (REF.)
35-867

IDC BD. (REF.)
02-734
(SEE 16-942D12 FOR CABLING DETAILS)

FANS MUST BE OPERATING IN CLOSED POSITION WHEN DISCS ARE IN OPERATION



REAR VIEW

④ MTG. HDW. INCLUDED SEE SHT 2

13.75 IN
349.3 MM

REVISIONS				
PRE PRODUCTION APPROVAL	INIT DEV.	DATE		
	R DENGEL	2/14/84		
	J QUINN	2/14/84		
AREA F1 ADDED NOTE, 01-262F00, F01 & 01-263F00, F01 TO USE ITEM 16. REV'D SHT. 1 ONLY				
VT	JV	5690	M	4/17/84
				RO1

METRIC

USED IN MANUAL

UNLESS OTHERWISE SPECIFIED		
SCALE: 3/8	TOLERANCE:	
	MILLIMETERS	INCH
DIMENSIONS ARE	.XX±.13	.XXX±.005
IN MILLIMETERS	.X±.5	.XX±.02
	X±.8	.X±.03
NAME	TITLE	DATE
J TAMUL	DES/DFT	1/26/84
R CERO	SUPV	
	CHK	
R DENGEL	ENG	
P ABITANTE	MGR	
R BARKER	QC	
PERKIN-ELMER		
Oceanport, N.J. 07757		

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01	REVISION
2	SHEET
01	SHEET SIZE

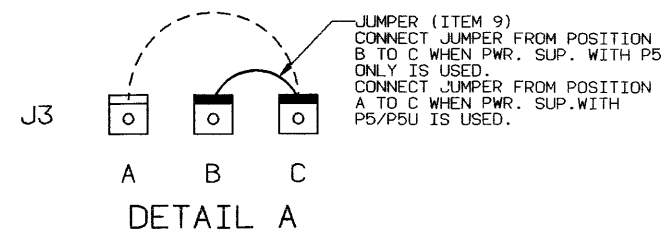
TITLE	ASSEMBLY
	3205, 30" SYSTEM CAB.
TASK: 03294, ECR 5619	
DWG: 01-262 R01	D03 1 - 2

NOTES:

THE REVISION LEVEL OF THIS SHEET IS CONSIDERED TO BE THE REVISION LEVEL OF THE DOCUMENT

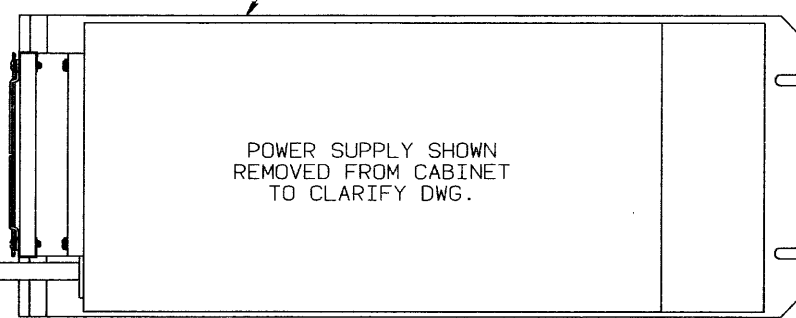
A B C D E F G H J K L M N R S

REVISIONS

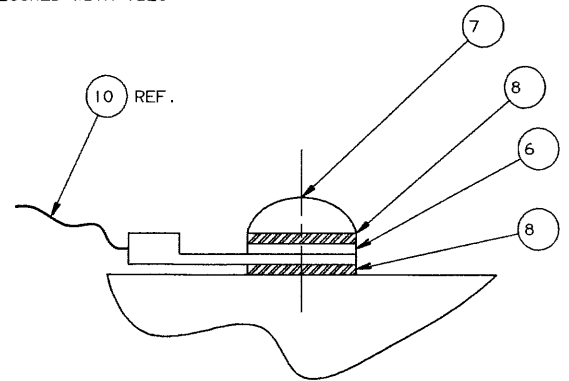


ASSEMBLE TO BACKPANEL AS SHOWN (SLOT 7, PINS 28-43)

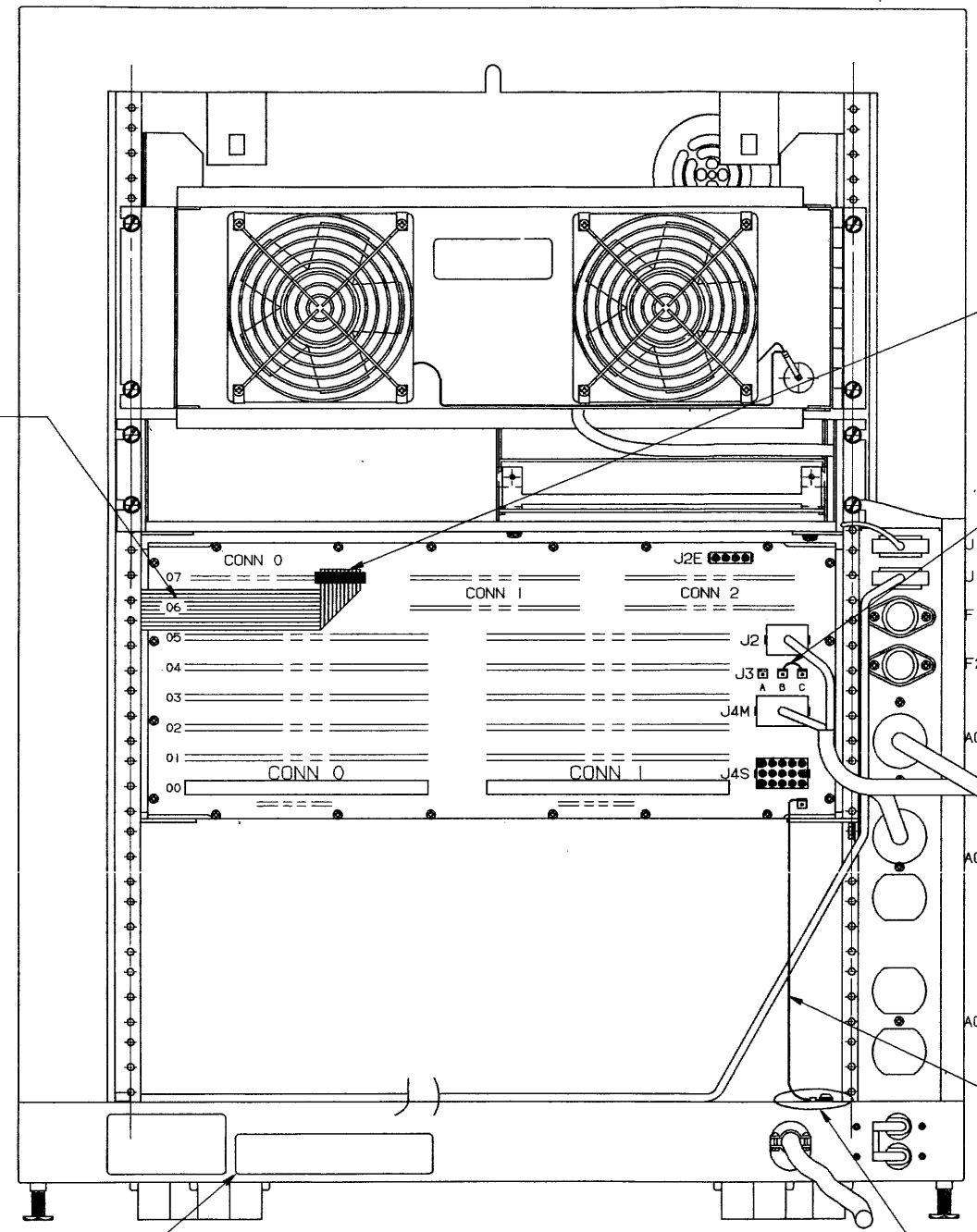
SEE DETAIL A



PWR. SUP. CABLES TO BE COILED WITHIN UPRIGHT CHANNEL OF CABINET AND SECURED WITH TIES



DETAIL B
UNI-POINT GND.



REAR VIEW

CONTROL PANEL CABLE PART OF 09-140 REF.

15 SEE NOTE 1

SEE DETAIL B

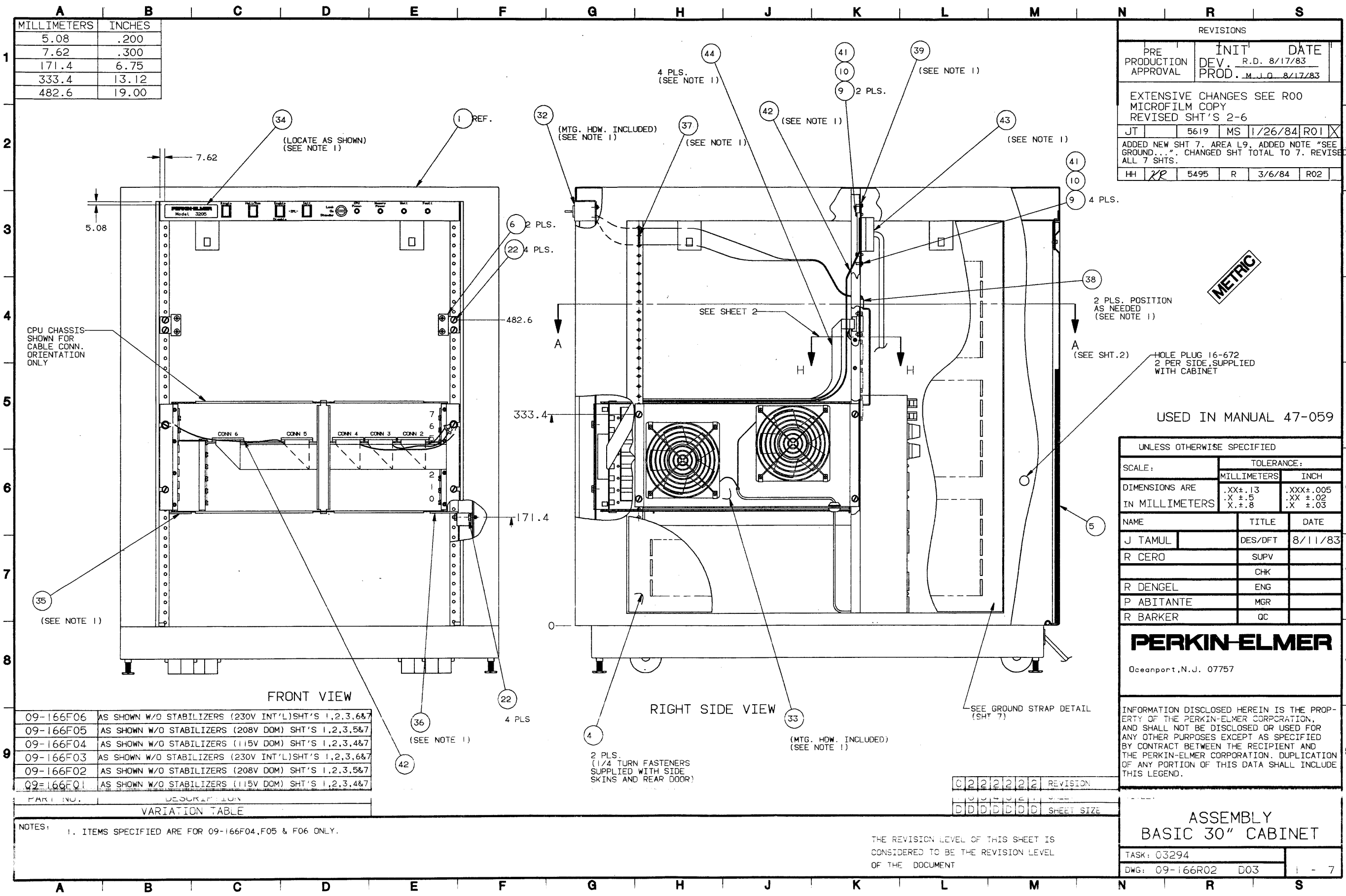
NOTES: 1. APPLY LABEL TO DOMESTIC MODELS ONLY (01-262F00-F04 & 01-263F00-F04) LOCATE IN AREA SHOWN

PERKIN-ELMER
Oceanport, N.J. 07757

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TITLE: ASSEMBLY
3205, 30" SYSTEM CAB.

DRAFTER	J TAMULEVICIUS	TASK: 03294
DATE	1/26/84	DWG: 01-262 003 2 - 2



MILLIMETERS	INCHES
5.08	.200
7.62	.300
171.4	6.75
333.4	13.12
482.6	19.00

REVISIONS			
PRE PRODUCTION APPROVAL	INIT DEV.	DATE	
	R.D.	8/17/83	
EXTENSIVE CHANGES SEE R00 MICROFILM COPY REVISED SHT'S 2-6			
JT	5619	MS	1/26/84 R01
ADDED NEW SHT 7. AREA L9. ADDED NOTE "SEE GROUND...". CHANGED SHT TOTAL TO 7. REVISED ALL 7 SHTS.			
HH	KR	5495	R 3/6/84 R02

PART NO.	DESCRIPTION
09-166F06	AS SHOWN W/O STABILIZERS (230V INT'L) SHT'S 1,2,3,6&7
09-166F05	AS SHOWN W/O STABILIZERS (208V DOM) SHT'S 1,2,3,5&7
09-166F04	AS SHOWN W/O STABILIZERS (115V DOM) SHT'S 1,2,3,4&7
09-166F03	AS SHOWN W/O STABILIZERS (230V INT'L) SHT'S 1,2,3,6&7
09-166F02	AS SHOWN W/O STABILIZERS (208V DOM) SHT'S 1,2,3,5&7
09-166F01	AS SHOWN W/O STABILIZERS (115V DOM) SHT'S 1,2,3,4&7

VARIATION TABLE	

NOTES: 1. ITEMS SPECIFIED ARE FOR 09-166F04, F05 & F06 ONLY.

UNLESS OTHERWISE SPECIFIED		
SCALE:	TOLERANCE:	
	MILLIMETERS	INCH
DIMENSIONS ARE	.XX±.13	.XXX±.005
IN MILLIMETERS	.X ±.5	.XX ±.02
	X ±.8	.X ±.03
NAME	TITLE	DATE
J TAMUL	DES/DFT	8/11/83
R CERO	SUPV	
	CHK	
R DENGEL	ENG	
P ABITANTE	MGR	
R BARKER	QC	

PERKIN-ELMER
Oceanport, N.J. 07757

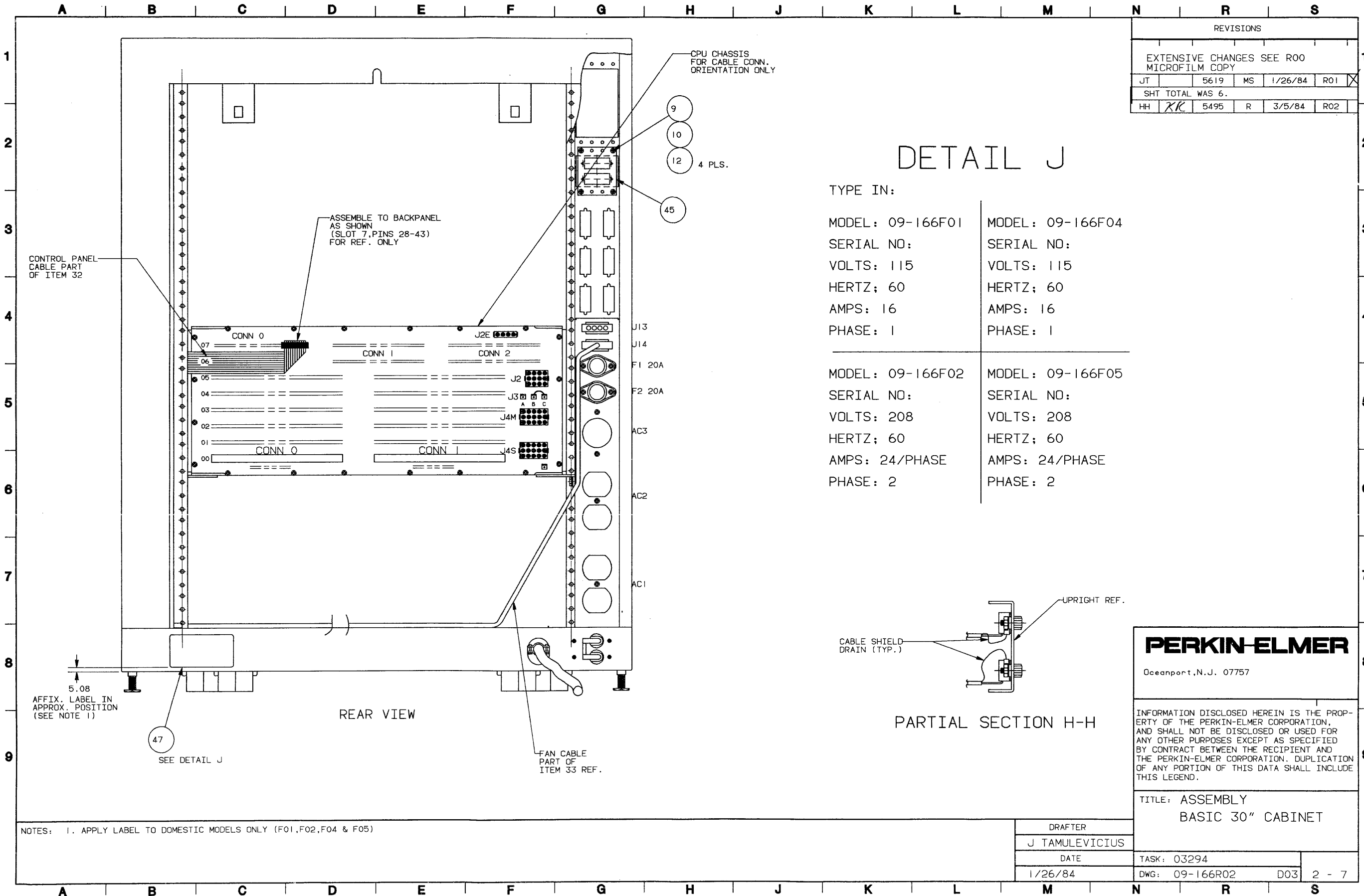
INFORMATION DISCLOSED HEREIN IS THE PROPERTY OF THE PERKIN-ELMER CORPORATION, AND SHALL NOT BE DISCLOSED OR USED FOR ANY OTHER PURPOSES EXCEPT AS SPECIFIED BY CONTRACT BETWEEN THE RECIPIENT AND THE PERKIN-ELMER CORPORATION. DUPLICATION OF ANY PORTION OF THIS DATA SHALL INCLUDE THIS LEGEND.

REVISION		SHEET SIZE	
0	2	D	D
1	2	D	D
2	2	D	D
3	2	D	D
4	2	D	D
5	2	D	D
6	2	D	D
7	2	D	D
8	2	D	D
9	2	D	D

ASSEMBLY
BASIC 30" CABINET

TASK: 03294
DWG: 09-166R02 D03 1 - 7

THE REVISION LEVEL OF THIS SHEET IS CONSIDERED TO BE THE REVISION LEVEL OF THE DOCUMENT



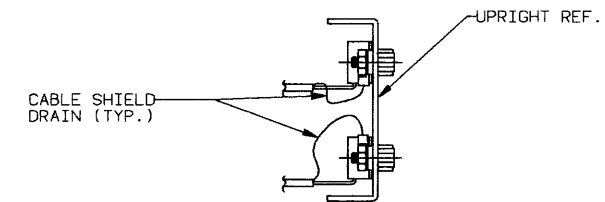
REVISIONS					
EXTENSIVE CHANGES SEE R00 MICROFILM COPY					
JT	5619	MS	1/26/84	R01	X
SHT TOTAL WAS 6.					
HH	XK	5495	R	3/5/84	R02

DETAIL J

TYPE IN:

MODEL: 09-166F01	MODEL: 09-166F04
SERIAL NO:	SERIAL NO:
VOLTS: 115	VOLTS: 115
HERTZ: 60	HERTZ: 60
AMPS: 16	AMPS: 16
PHASE: 1	PHASE: 1

MODEL: 09-166F02	MODEL: 09-166F05
SERIAL NO:	SERIAL NO:
VOLTS: 208	VOLTS: 208
HERTZ: 60	HERTZ: 60
AMPS: 24/PHASE	AMPS: 24/PHASE
PHASE: 2	PHASE: 2



PARTIAL SECTION H-H

PERKIN-ELMER
Oceanport, N.J. 07757

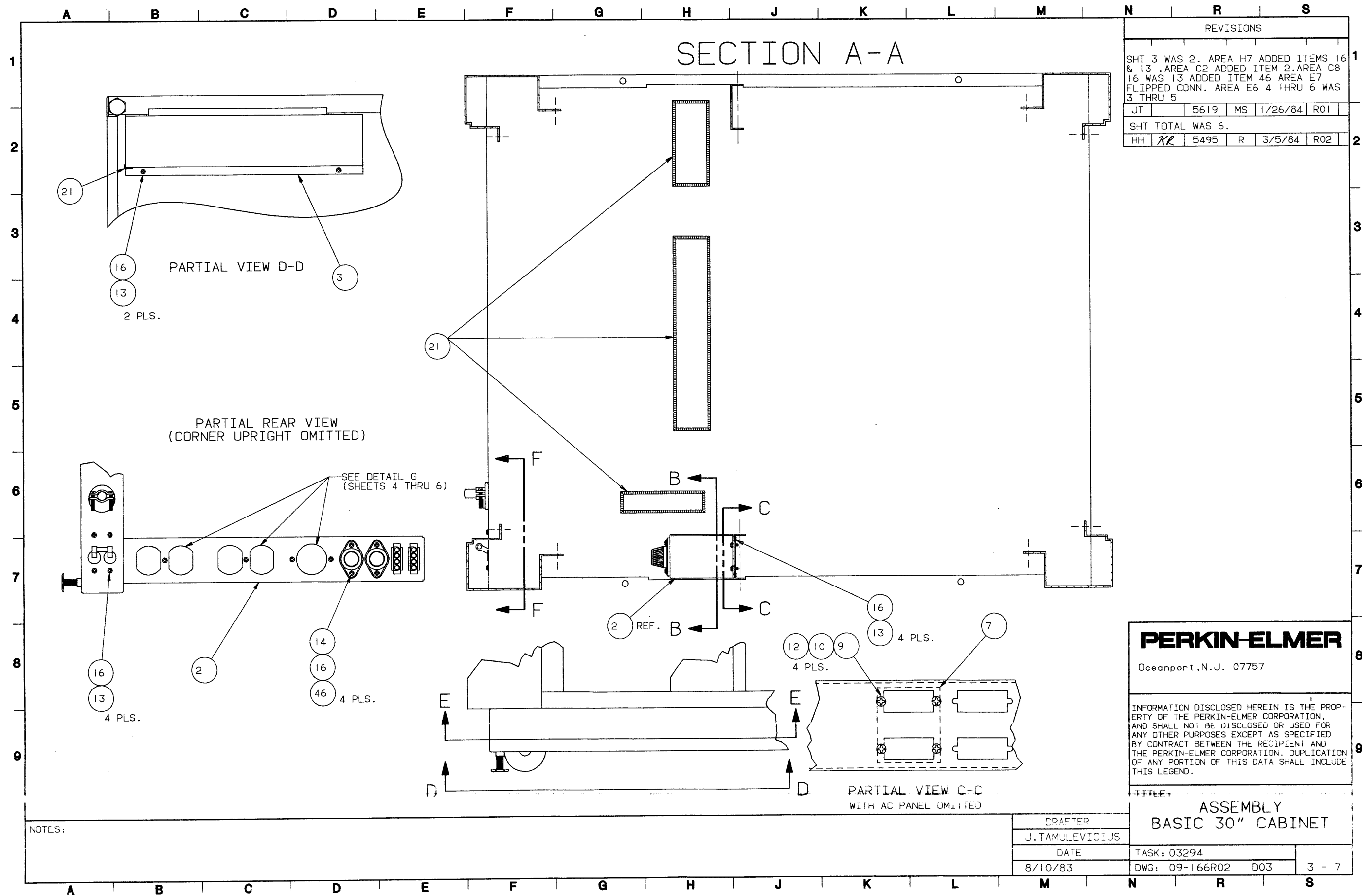
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TITLE: ASSEMBLY
BASIC 30" CABINET

DRAFTER	J TAMULEVICIUS
DATE	1/26/84
TASK: 03294	DWG: 09-166R02 D03

2 - 7

NOTES: 1. APPLY LABEL TO DOMESTIC MODELS ONLY (F01, F02, F04 & F05)



REVISIONS				
SHT 3 WAS 2. AREA H7 ADDED ITEMS 16 & 13 .AREA C2 ADDED ITEM 2.AREA C8 16 WAS 13 ADDED ITEM 46 AREA E7 FLIPPED CONN. AREA E6 4 THRU 6 WAS 3 THRU 5				
JT	5619	MS	1/26/84	R01
SHT TOTAL WAS 6.				
HH	RR	5495	R	3/5/84 R02

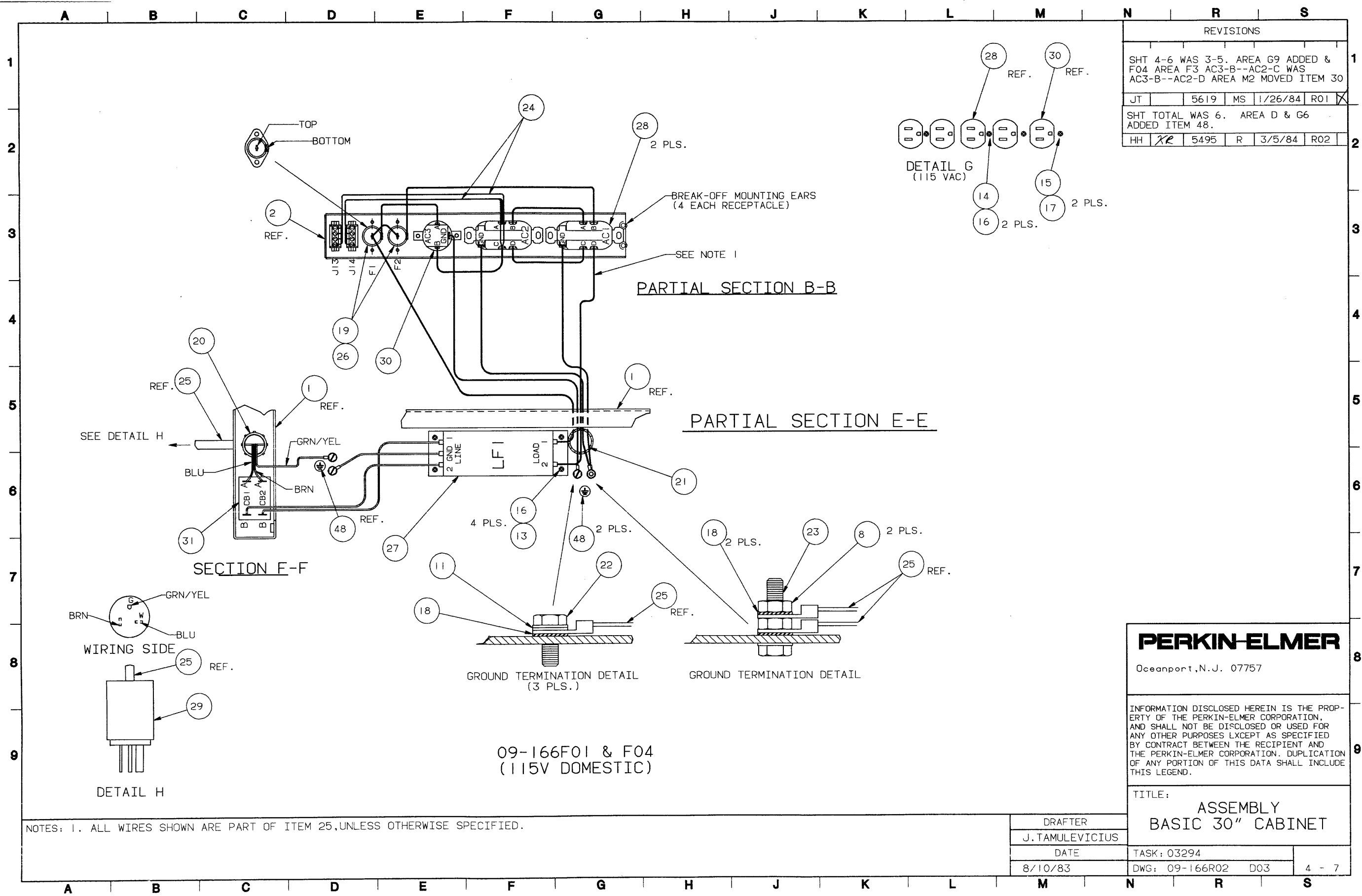
NOTES:

PERKIN-ELMER
 Oceanport, N.J. 07757

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DRAFTER		TASK: 03294	
J. TAMULEVICIUS		DWG: 09-166R02 D03	
DATE		3 - 7	
8/10/83			

TITLE:
**ASSEMBLY
 BASIC 30" CABINET**



REVISIONS				
SHT 4-6 WAS 3-5. AREA G9 ADDED & F04 AREA F3 AC3-B--AC2-C WAS AC3-B--AC2-D AREA M2 MOVED ITEM 30				
JT	5619	MS	1/26/84	R01
SHT TOTAL WAS 6. AREA D & G6 ADDED ITEM 48.				
HH	5495	R	3/5/84	R02

NOTES: 1. ALL WIRES SHOWN ARE PART OF ITEM 25, UNLESS OTHERWISE SPECIFIED.

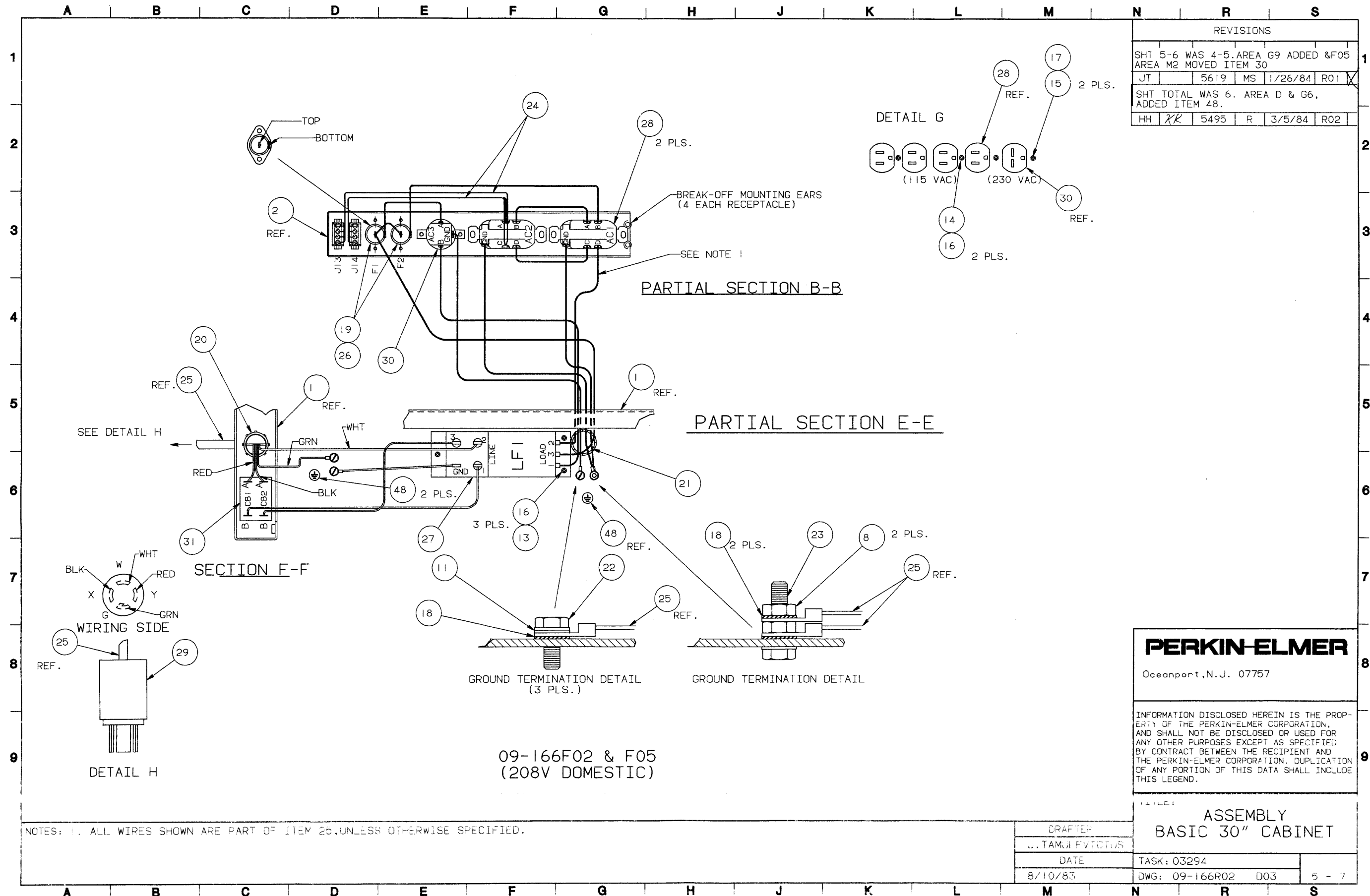
DRAFTER		TASK: 03294	
J. TAMULEVICIUS		DWG: 09-166R02 D03	
DATE		4 - 7	
8/10/83			

PERKIN-ELMER
 Oceanport, N.J. 07757

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TITLE:
**ASSEMBLY
 BASIC 30" CABINET**

09-166F01 & F04
 (115V DOMESTIC)



REVISIONS				
SHT 5-6 WAS 4-5. AREA G9 ADDED & F05 AREA M2 MOVED ITEM 30				
JT	5619	MS	1/26/84	R01
SHT TOTAL WAS 6. AREA D & G6, ADDED ITEM 48.				
HH	JK	5495	R	3/5/84 R02

09-166F02 & F05
(208V DOMESTIC)

NOTES: 1. ALL WIRES SHOWN ARE PART OF ITEM 26, UNLESS OTHERWISE SPECIFIED.

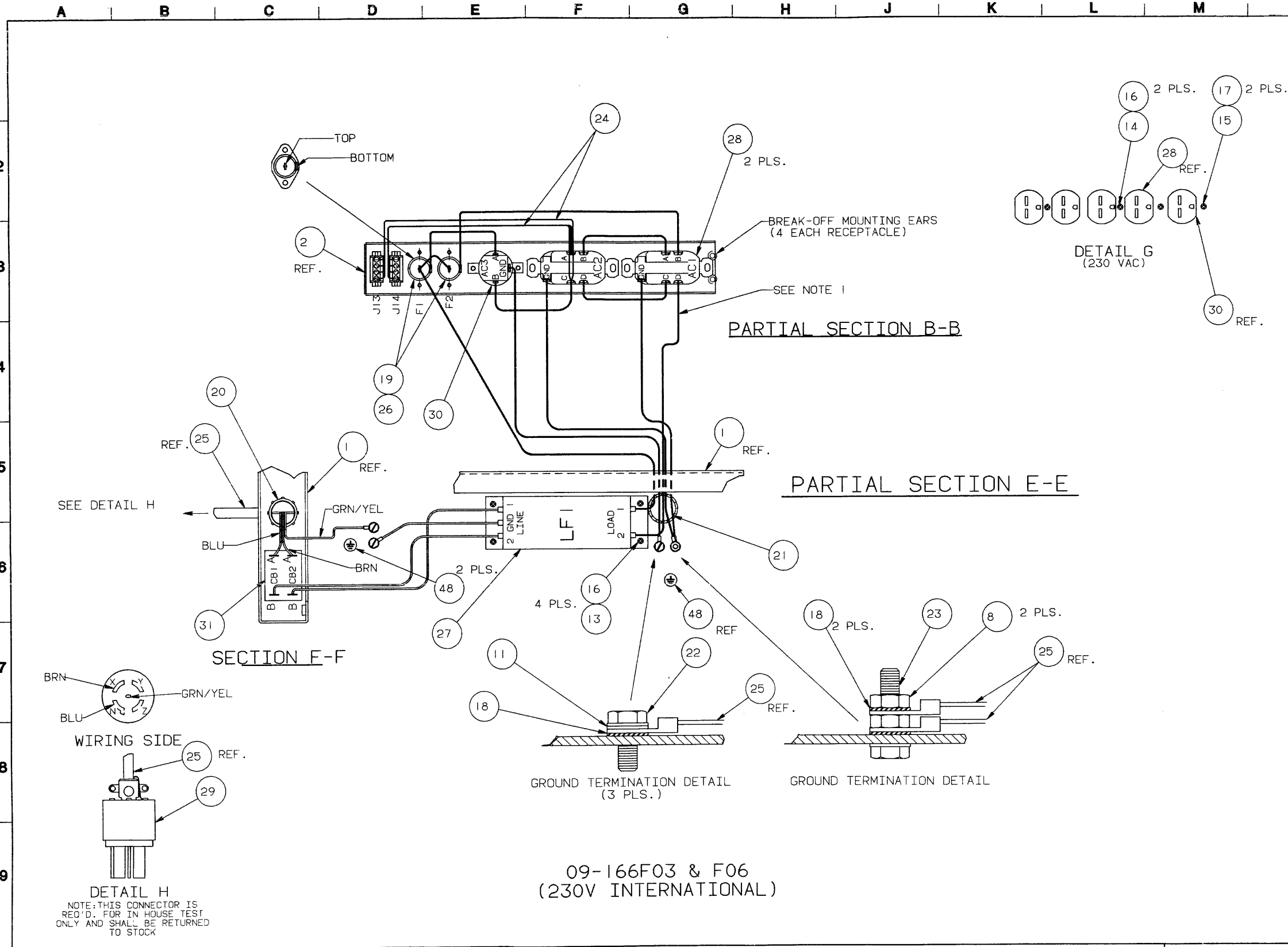
PERKIN-ELMER
Oceanport, N.J. 07757

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TITLE:
**ASSEMBLY
BASIC 30" CABINET**

DRAFTER	J. TAMU EVICTUS	TASK: 03294
DATE	8/10/83	DWG: 09-166R02 D03
		5 - 7

REVISIONS				
				1
SHT 6-6 WAS 5-5. AREA G9 ADDED & F06 AREA F3 AC3-B--AC2-C WAS AC3-B--AC2-D AREA M2 MOVED ITEM 30				
JT	5619	MS	1/26/84	R01
SHT TOTAL WAS 6. AREA D & G6, ADDED ITEM 48.				
HH	RP	5495	R	3/5/84 R02



09-166F03 & F06
(230V INTERNATIONAL)

PERKIN-ELMER
Oceanport, N.J. 07757

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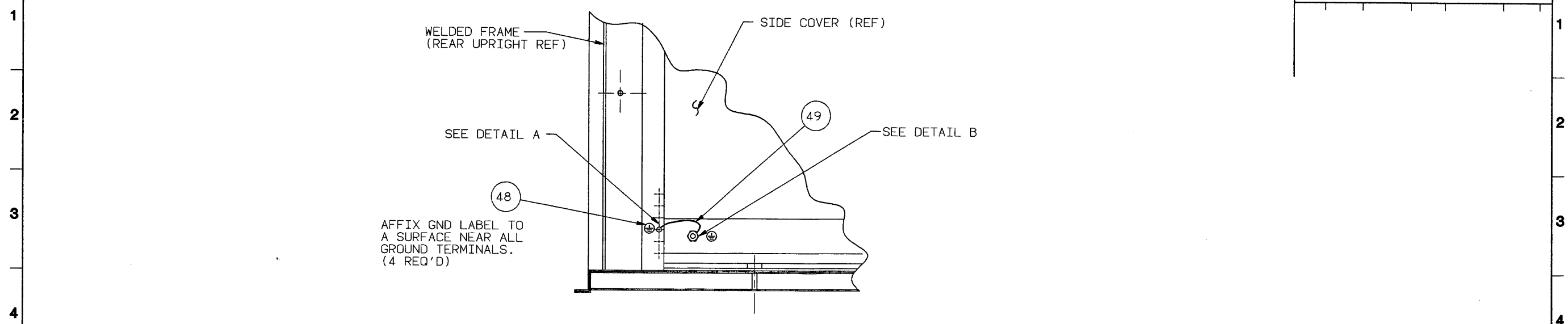
TITLE:
**ASSEMBLY
BASIC 30" CABINET**

DRAFTER	J. TAMULEVICIUS	TASK: 03294	6 - 7
DATE	8/10/83	DWG: 09-166R02 D03	

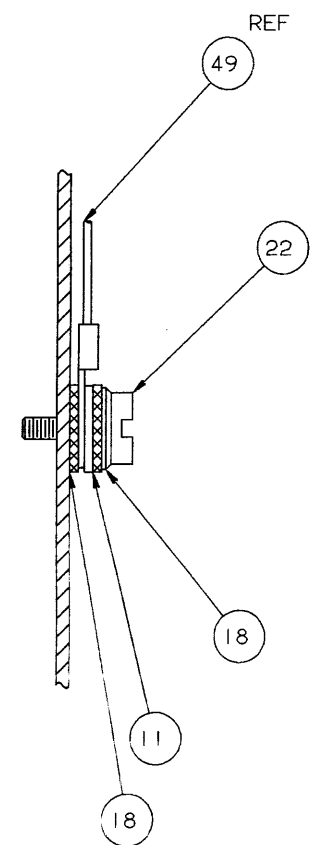
NOTES: 1. ALL WIRES SHOWN ARE PART OF ITEM 25, UNLESS OTHERWISE SPECIFIED.

A B C D E F G H J K L M N R S

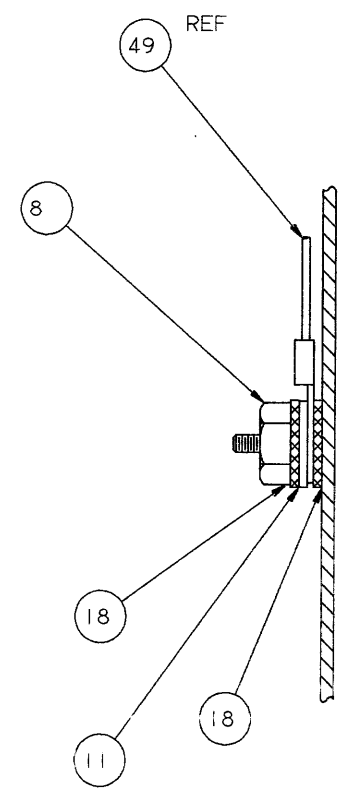
REVISIONS



DETAIL A



DETAIL B



NOTES:

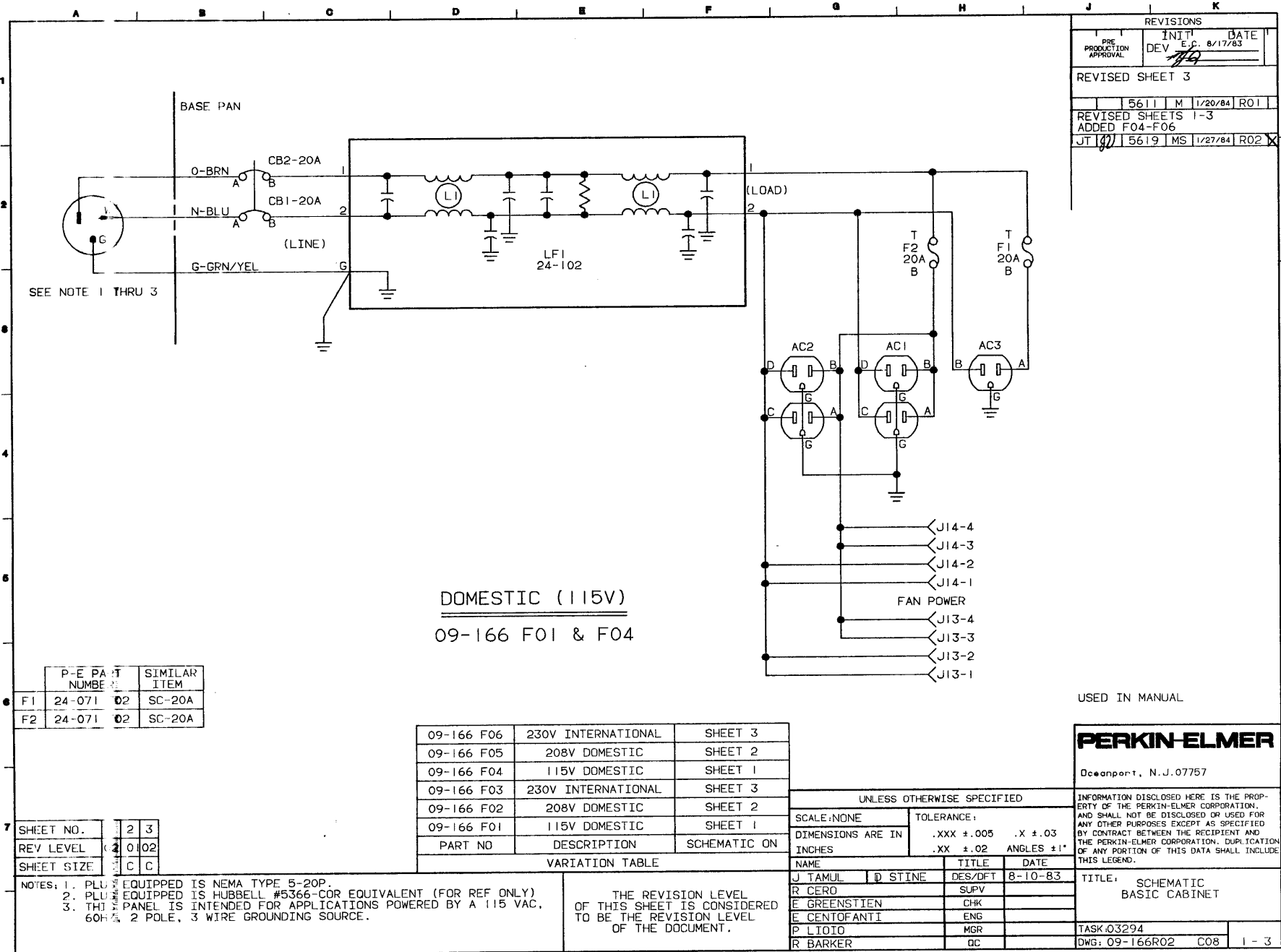
PERKIN-ELMER
Oceanport, N.J. 07757

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TITLE: ASSEMBLY
BASIC 30" CABINET

DRAFTER	JOE HEITMAN/K.R.
DATE	3/6/84
TASK: 03982 (ECN 5495)	DWG: 09-166 003 7 - 7

A B C D E F G H J K L M N R S



REVISIONS			
PRE PRODUCTION APPROVAL	INITIALS	DATE	
	DEV	E.C. 8/17/83	
REVISED SHEET 3			
	5611	M	1/20/84 R01
REVISED SHEETS 1-3			
ADDED F04-F06			
JT	5619	MS	1/27/84 R02 X

DOMESTIC (115V)
09-166 F01 & F04

	P-E PART NUMBER		SIMILAR ITEM
F1	24-071	02	SC-20A
F2	24-071	02	SC-20A

09-166 F06	230V INTERNATIONAL	SHEET 3
09-166 F05	208V DOMESTIC	SHEET 2
09-166 F04	115V DOMESTIC	SHEET 1
09-166 F03	230V INTERNATIONAL	SHEET 3
09-166 F02	208V DOMESTIC	SHEET 2
09-166 F01	115V DOMESTIC	SHEET 1
PART NO	DESCRIPTION	SCHEMATIC ON

VARIATION TABLE

SHEET NO.	2	3
REV LEVEL	0	02
SHEET SIZE	C	C

NOTES: 1. PLU EQUIPPED IS NEMA TYPE 5-20P.
2. PLU EQUIPPED IS HUBBELL #5366-COR EQUIVALENT (FOR REF ONLY)
3. THIS PANEL IS INTENDED FOR APPLICATIONS POWERED BY A 115 VAC, 60HZ, 2 POLE, 3 WIRE GROUNDING SOURCE.

THE REVISION LEVEL OF THIS SHEET IS CONSIDERED TO BE THE REVISION LEVEL OF THE DOCUMENT.

UNLESS OTHERWISE SPECIFIED			
SCALE: NONE		TOLERANCE:	
DIMENSIONS ARE IN INCHES		.XXX ± .005	.X ± .03
		.XX ± .02	ANGLES ± 1°
NAME	TITLE	DATE	
J TAMIL	D STINE	DES/DFT	8-10-83
R CERO		SUPV	
E GREENSTIEN		CHK	
E CENTOFANTI		ENG	
P LIOTO		MGR	
R BARKER		QC	

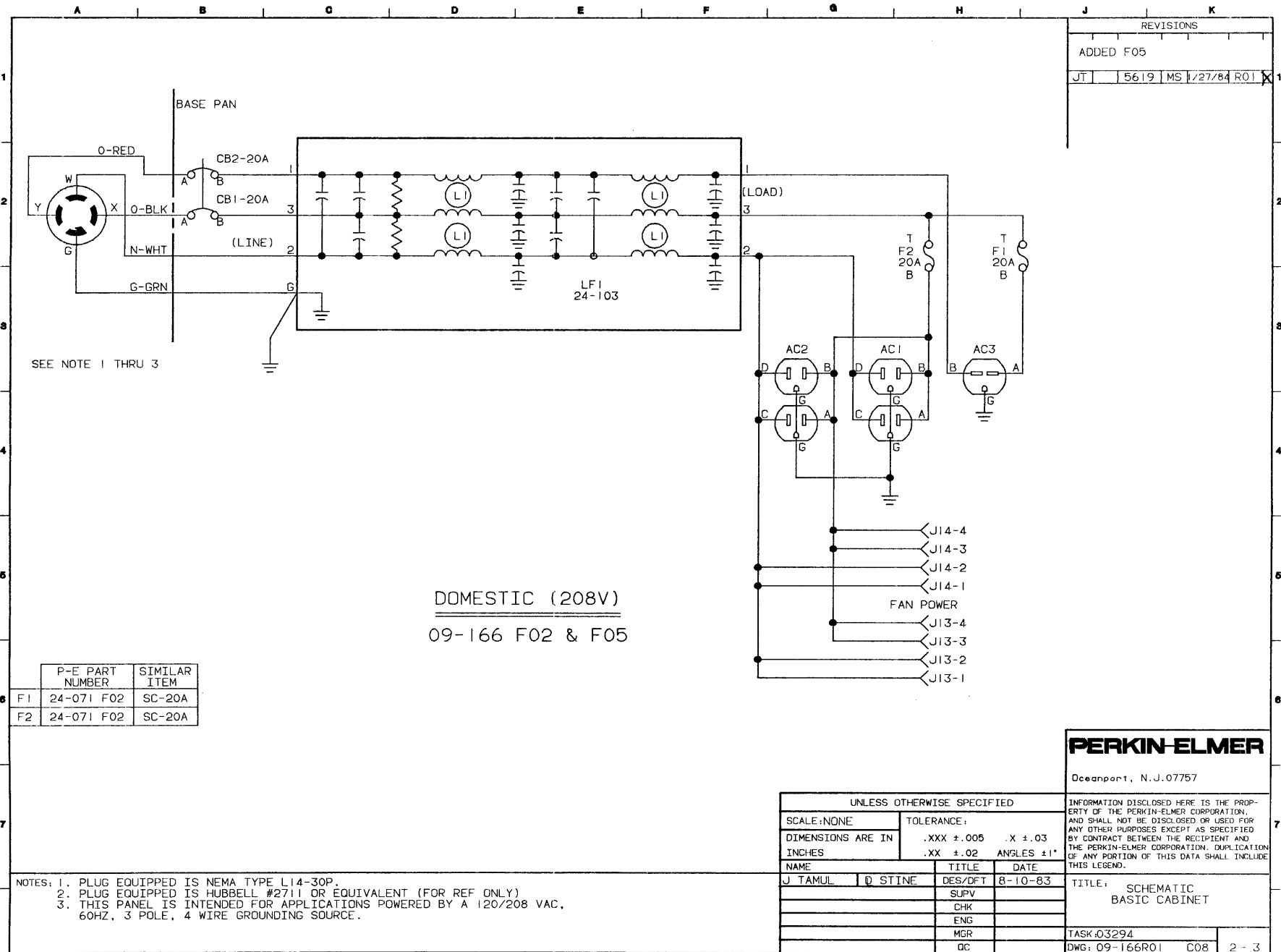
USED IN MANUAL

PERKIN-ELMER
Davenport, N.J. 07757

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TITLE: SCHEMATIC
BASIC CABINET

TASK: 03294
DWG: 09-166R02 C08 1 - 3



REVISIONS			
ADDED F05			
JT	5619	MS	1/27/84 R01

SEE NOTE 1 THRU 3

DOMESTIC (208V)
09-166 F02 & F05

	P-E PART NUMBER	SIMILAR ITEM
F1	24-071 F02	SC-20A
F2	24-071 F02	SC-20A

NOTES: 1. PLUG EQUIPPED IS NEMA TYPE L14-30P.
 2. PLUG EQUIPPED IS HUBBELL #2711 OR EQUIVALENT (FOR REF ONLY)
 3. THIS PANEL IS INTENDED FOR APPLICATIONS POWERED BY A 120/208 VAC, 60HZ, 3 POLE, 4 WIRE GROUNDING SOURCE.

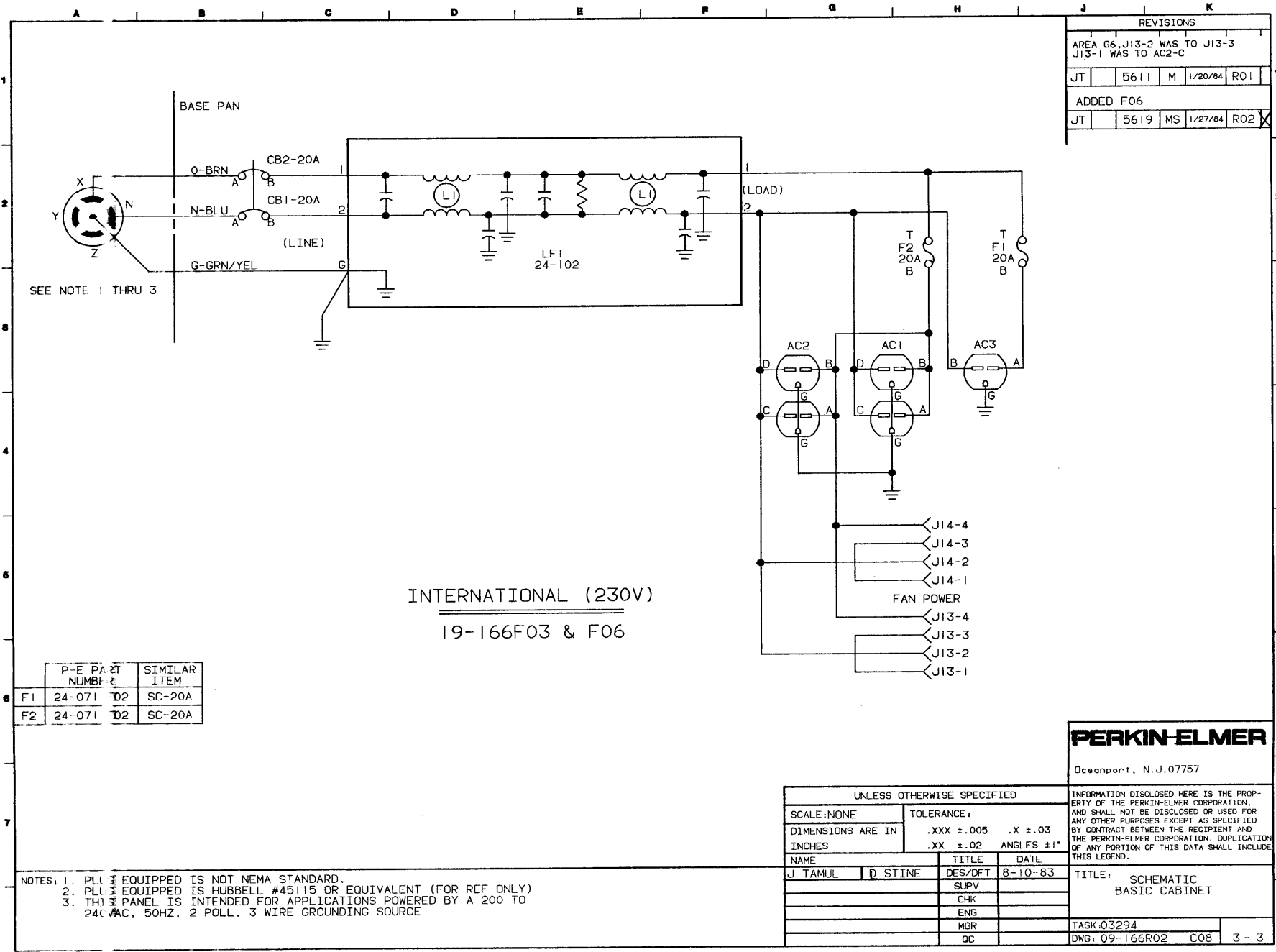
PERKIN-ELMER
Oceanport, N.J. 07757

UNLESS OTHERWISE SPECIFIED			
SCALE: NONE	TOLERANCE:		
DIMENSIONS ARE IN	.XXX ± .005	.X ± .03	
INCHES	.XX ± .02	ANGLES ± 1°	
NAME	TITLE	DATE	
J TAMUL	D STINE	DES/OFT	8-10-83
		SUPV	
		CHK	
		ENG	
		MGR	
		QC	

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TITLE: SCHEMATIC
BASIC CABINET

TASK: 03294
DWG: 09-166R01 C08 2 - 3



REVISIONS				
AREA G6, J13-2 WAS TO J13-3 J13-1 WAS TO AC2-C				
JT	5611	M	1/20/84	RO1
ADDED F06				
JT	5619	MS	1/27/84	RO2

INTERNATIONAL (230V)
19-166F03 & F06

	P-E PART NUMBER	SIMILAR ITEM
F1	24-071 02	SC-20A
F2	24-071 02	SC-20A

NOTES: 1. PLL EQUIPPED IS NOT NEMA STANDARD.
2. PLL EQUIPPED IS HUBBELL #45115 OR EQUIVALENT (FOR REF ONLY)
3. THIS PANEL IS INTENDED FOR APPLICATIONS POWERED BY A 200 TO 240 VAC, 50HZ, 2 PHASE, 3 WIRE GROUNDING SOURCE

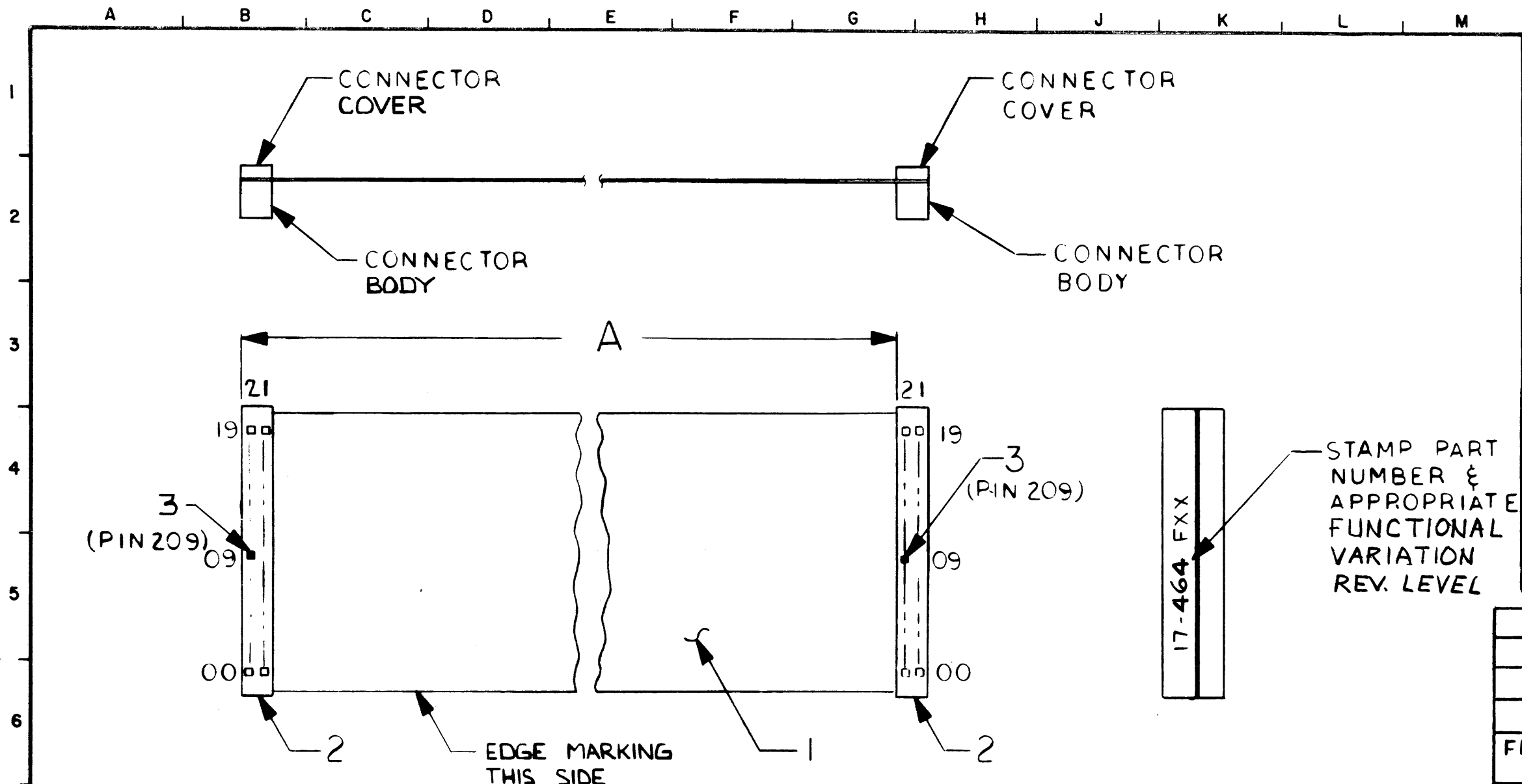
UNLESS OTHERWISE SPECIFIED			
SCALE: NONE	TOLERANCE:		
DIMENSIONS ARE IN INCHES	.XXX ± .005	.X ± .03	ANGLES ± 1°
NAME	TITLE	DATE	
J TAMUL	D STINE	DES/DFT	8-10-83
		SUPV	
		CHK	
		ENG	
		MGR	
		QC	

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Oceanport, N.J. 07757

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TITLE: SCHEMATIC BASIC CABINET

TASK: 03294
DWG: 09-166R02 C08 3-3



NOTE :
 1. POSITIONS 100, 200, 109, 209, 110, 210, 119 & 219 ARE CONNECTED TO A COMMON BUS.

REVISIONS

PRE PRODUCTION APPROVAL	INIT DATE
DEV <i>[Signature]</i>	DATE <i>11/1/79</i>
PROD <i>[Signature]</i>	DATE <i>3/14/79</i>

RELEASED FOR PRODUCTION
 MFG. ENG. *[Signature]* DATE *11/1/79*

EXTENSIVE CHANGES FOR PREVIOUS REV'S SEE R02 VOIDED COPY IN FILE

IT 92 4324 R 3-19-80 R03

STAMP PART NUMBER & APPROPRIATE FUNCTIONAL VARIATION REV. LEVEL

F04	48.0 ± .25
F03	23.0 ± .25
F02	16.5 ± .25
F01	NOT QUALIFIED
FUNCTIONAL VARIATION	DIMENSION "A"

VARIATION TABLE

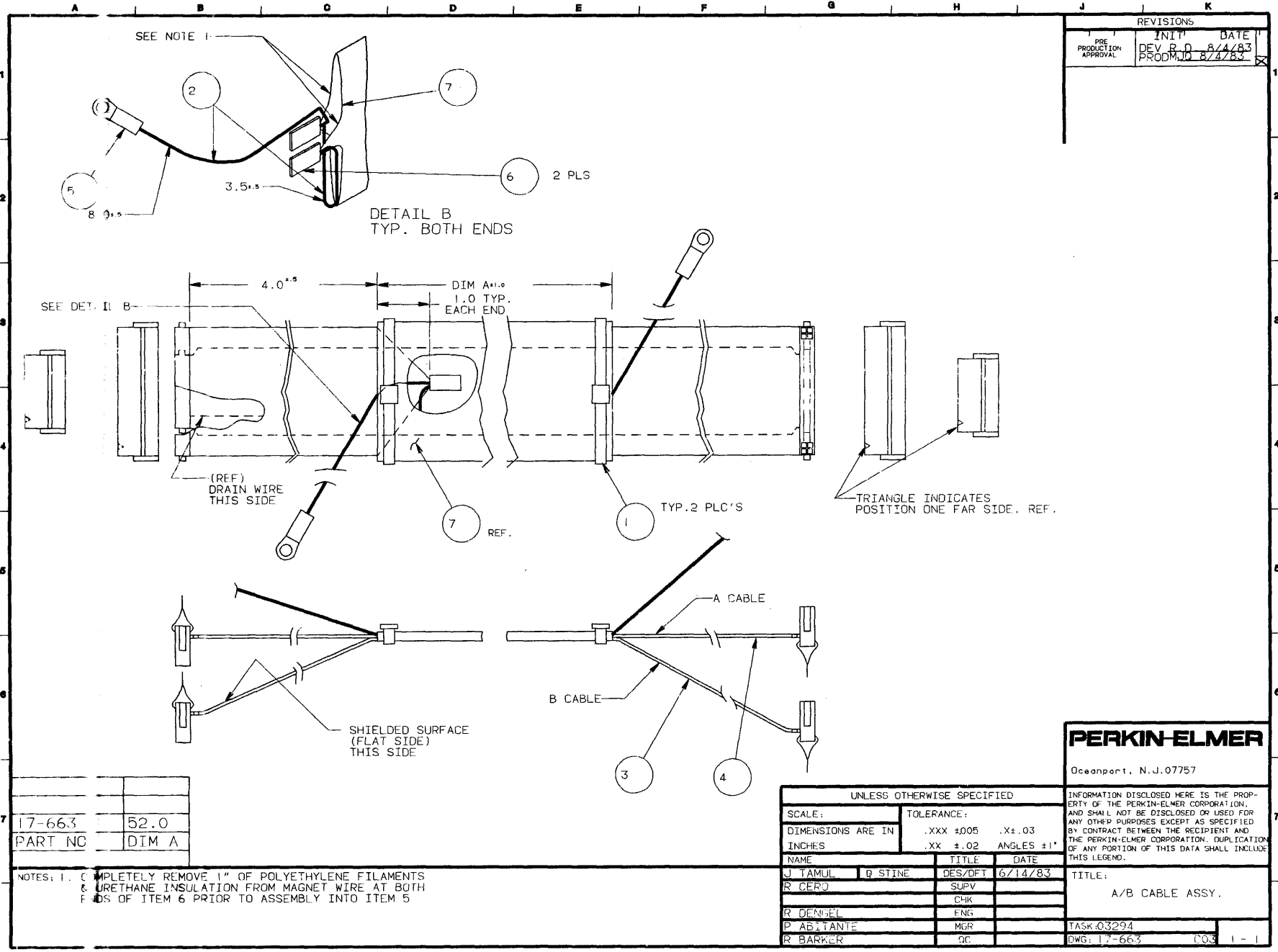
PERKIN-ELMER

Computer Systems Division
 Oceanport, N.J. 07757

UNLESS OTHERWISE SPECIFIED		
SCALE: NONE	TOLERANCE:	
DIMENSIONS ARE IN INCHES	.XXX ± .005	.X ± .03
	.XX ± .02	ANGLES ± 1°
NAME	TITLE	DATE
C. HOLT	DES / DFT	3- 8 -79
R. CERO	SUPV	
	CHK	8-28-79
G. WELLY	ENG	8-28-79
P. ABITANTE	MGR	8-28-79
R. BARKER	QC	8-28-79

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TITLE	SHT
TRANSMISSION CABLE (BERG)	1 - 1
TASK 03913	
DWG 17-464 R03 803	



REVISIONS	
INITIALS	DATE
PRE PRODUCTION APPROVAL	DEV R.D. 8/4/83 PROD.M.D. 8/4/83

17-663	52.0
PART NO	DIM A

NOTES: 1. COMPLETELY REMOVE 1" OF POLYETHYLENE FILAMENTS & URETHANE INSULATION FROM MAGNET WIRE AT BOTH ENDS OF ITEM 6 PRIOR TO ASSEMBLY INTO ITEM 5

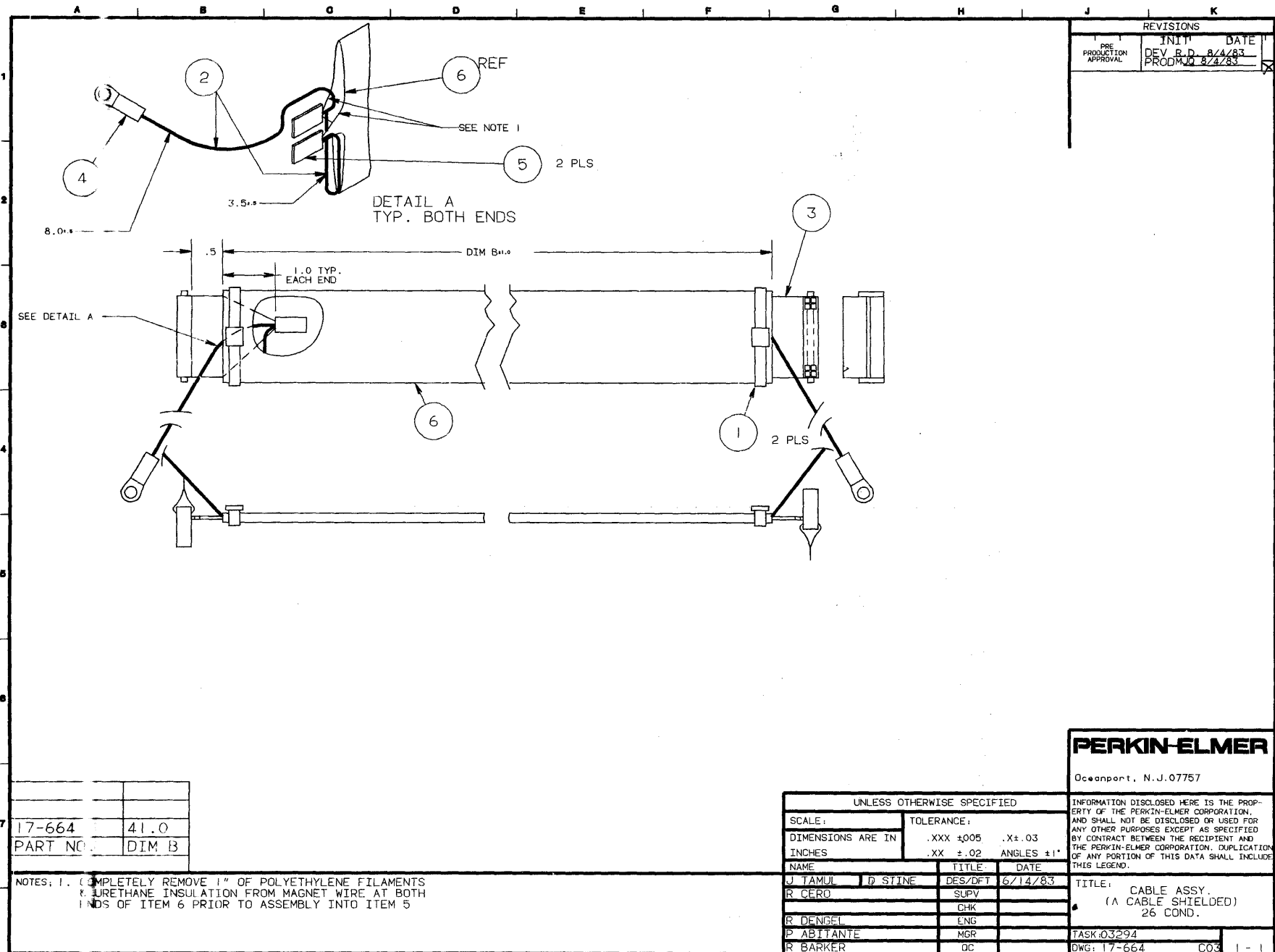
UNLESS OTHERWISE SPECIFIED			
SCALE:	TOLERANCE:		
DIMENSIONS ARE IN INCHES	.XXX ±.005	.X ±.03	ANGLES ±1'
NAME	TITLE	DATE	
J TAMUL	Q STINE	DES/DFT 6/14/83	
R CERJ		SUPV	
		CHK	
R DENIGEL		ENG	
P ABITANTE		MGR	
R BARKER		QC	

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TITLE:
A/B CABLE ASSY.

TASK: Q3294
DWG: 17-663 C03 1-1



17-664	41.0
PART NO.	DIM B

NOTES: 1. COMPLETELY REMOVE 1" OF POLYETHYLENE FILAMENTS & URETHANE INSULATION FROM MAGNET WIRE AT BOTH ENDS OF ITEM 6 PRIOR TO ASSEMBLY INTO ITEM 5

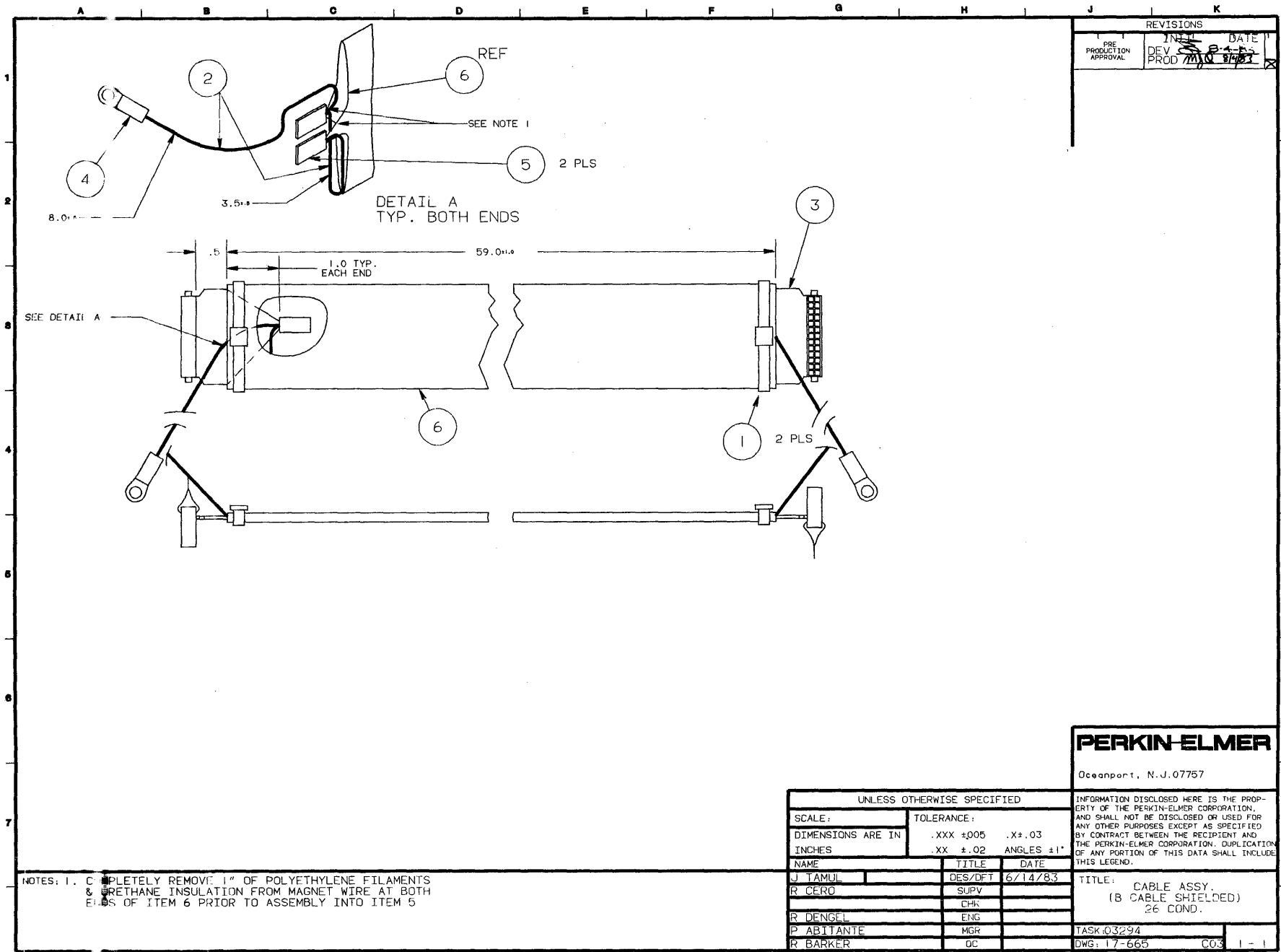
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UNLESS OTHERWISE SPECIFIED			
SCALE:		TOLERANCE:	
DIMENSIONS ARE IN		.XXX ±.005	.X ±.03
INCHES		.XX ±.02	ANGLES ±1°
NAME	TITLE	DATE	
J TAMUL	D STINE	6/14/83	
R CERO	SUPV		
	CHK		
R DENGEL	ENG		
P ABITANTE	MGR		
R BARKER	DC		

TITLE: CABLE ASSY. (A CABLE SHIELDED) 26 COND.

TASK: 03294
DWG: 17-664 CO3 1-1



REVISIONS		
PRE PRODUCTION APPROVAL	INCH	DATE
DEV	8-1-83	
PROD	7/10/83	

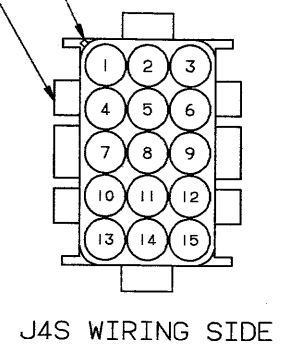
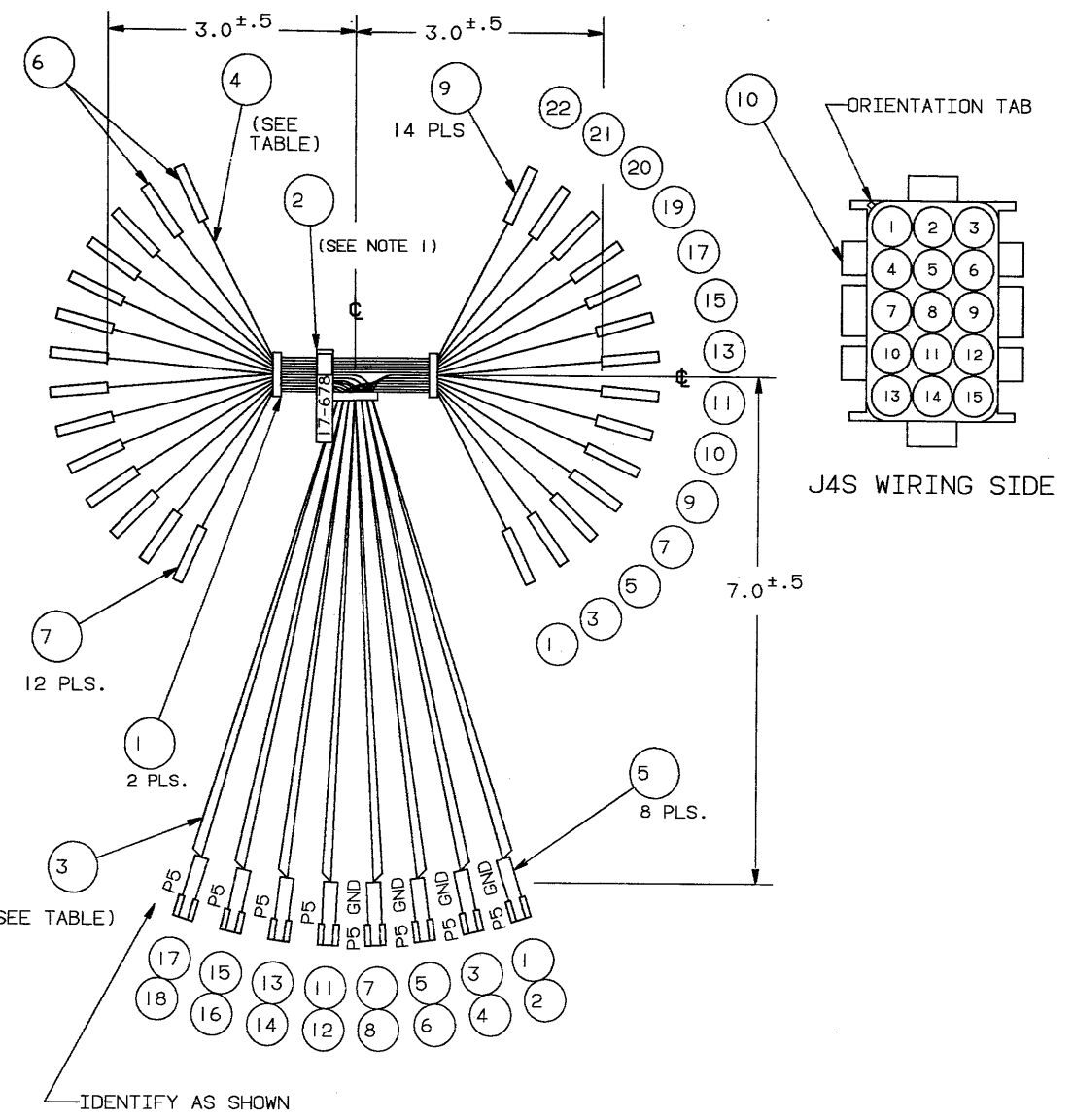
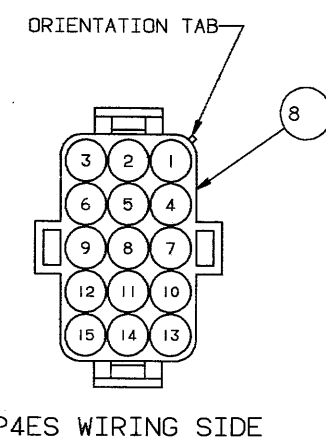
NOTES: 1. COMPLETELY REMOVE 1" OF POLYETHYLENE FILAMENTS & FRESHANE INSULATION FROM MAGNET WIRE AT BOTH ENDS OF ITEM 6 PRIOR TO ASSEMBLY INTO ITEM 5

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Oceanport, N.J. 07757

UNLESS OTHERWISE SPECIFIED			
SCALE:	TOLERANCE:		
DIMENSIONS ARE IN INCHES	.XXX ±.005	.X ±.03	
	.XX ±.02	ANGLES ±1°	
NAME	TITLE	DATE	
J TAMUL	DES/DFT	6/14/83	
R CERO	SUPV		
	CHK		
R DENGEL	ENG		
P ABITANTE	MGR		
R BARKER	QC		
TASK: 03294			TITLE: CABLE ASSY. (B CABLE SHIELDED) 26 COND.
DWG: 17-665			C.03 1 - 1

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A B C D E F G H J K L M N R S



REVISIONS		
PRE PRODUCTION APPROVAL	INIT DEV. <i>MLG</i>	DATE 9-30-83
	PROD. <i>MLG</i>	DATE 9/30/83

22	P5 GND SNS	24		6.5	J4S-09	P4ES-09	
21	P5 SNS	24		6.5	J4S-07	P4ES-07	
20	P5			6.5	J4S-15	P4ES-15	
19	P5			6.5	J4S-11	P4ES-11	
18	P5			10.5	P5	P4ES-13	
17	P5			10.5	J4S-13	P5	
16	P5			10.5	P5	P4ES-12	
15	P5			10.5	J4S-12	P5	
14	P5			10.5	P5	P4ES-14	
13	P5			10.5	J4S-14	P5	
12	P5			10.5	P5	P4ES-10	
11	P5			10.5	J4S-10	P5	
10	P5 GND			6.5	J4S-06	P4ES-06	
9	P5 GND			6.5	J4S-05	P4ES-05	
8	P5 GND			10.5	P5 GND	P4ES-04	
7	P5 GND			10.5	J4S-04	P5 GND	
6	P5 GND			10.5	P5 GND	P4ES-03	
5	P5 GND			10.5	J4S-03	P5 GND	
4	P5 GND			10.5	P5 GND	P4ES-02	
3	P5 GND			10.5	J4S-02	P5 GND	
2	P5 GND			10.5	P5 GND	P4ES-01	
1	P5 GND	14	WHT	10.5	J4S-01	P5 GND	.16
WIRE NO.	SIGNAL	GA.	COLOR	LENGTH REF.	FROM STRIP	TO STRIP	

WIRING TABLE

NOTES: 1. IDENTIFY WITH APPROPRIATE PART NO. AND REV. LEVEL.

UNLESS OTHERWISE SPECIFIED		
SCALE:	TOLERANCE:	
	MILLIMETERS	INCH
DIMENSIONS ARE	.XX±.13	.XXX±.005
IN INCHES	X±.5	.XX±.02
	X±.8	.X±.03
NAME	TITLE	DATE
J TAMLEVICIUS	DES/DFT	8/23/83
R CERO	SUPV	
	CHK	
R DENGEL	ENG	
P ABITANTE	MGR	
R BARKER	QC	

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TITLE: CABLE ASSEMBLY
I/O POWER
INTERFACE CABLE

TASK: 03294

DWG: 17-678

D03

1 - 1

A B C D E F G H J K L M N R S

A B C D E F G H J K

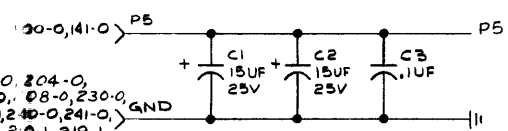
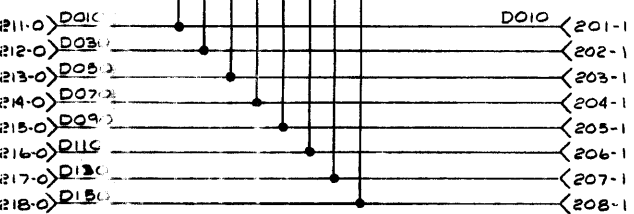
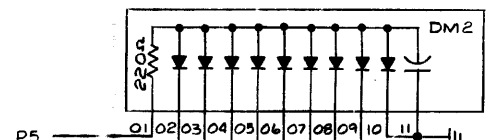
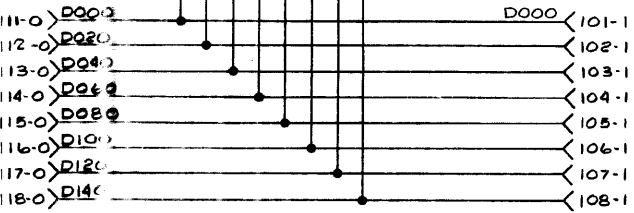
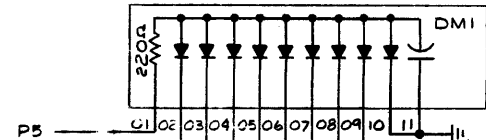
REVISIONS

RELEASED FOR PRODUCTION

ENG. *D. L. H.* DATE *3-24-82*

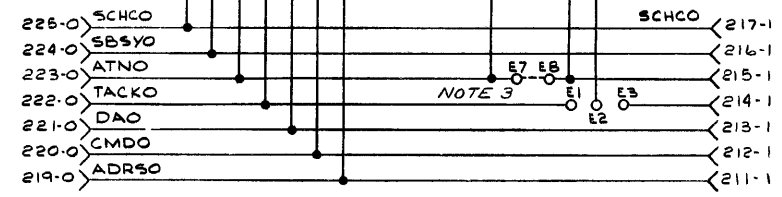
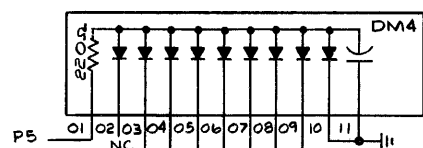
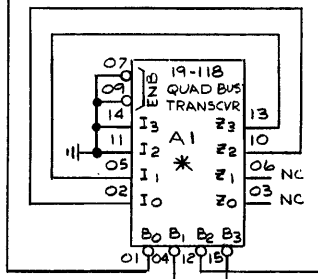
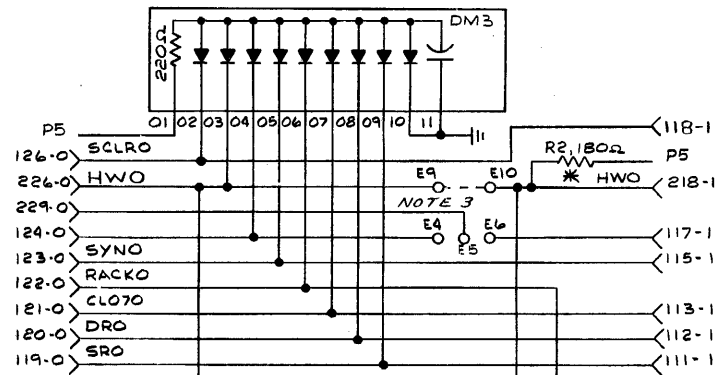
AREA A7 ADDED PINS
127-0, 134-0, 204-0, 208-0
5230-0 TO GND.

KR 187 5111 P 6-18-82 RO1 X



- 127-0, 134-0, 204-0,
- 101-0, 140-0, 08-0, 230-0,
- 200-0, 201-0, 240-0, 241-0,
- 200-1, 209-1, 210-1, 219-1,
- 100-1, 109-1, 110-1, 119-1

NOTES
 1. DIODE MODULES ARE 23-062 FO1
 2. * DENOTES COMPONENTS USED ON FO2 ONLY.
 3. STRAPPING FOR FO1 ONLY



BOARDS BUILT TO THIS SCHEMATIC MUST BE AT LEAST THE FOLLOWING REVISION LEVEL.

35-812	FO2	MO1	RO1
35-813	FO1	MO1	RO1
PART NO	FLTN	MFG	REV
VARIATION			

USED IN MANUAL: 47-022

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UNLESS OTHERWISE SPECIFIED

SCALE: —	TOLERANCE:
DIMENSIONS ARE IN INCHES	.XXX ± .003 .X ± .03 .XX ± .02 ANGLES ± 1°

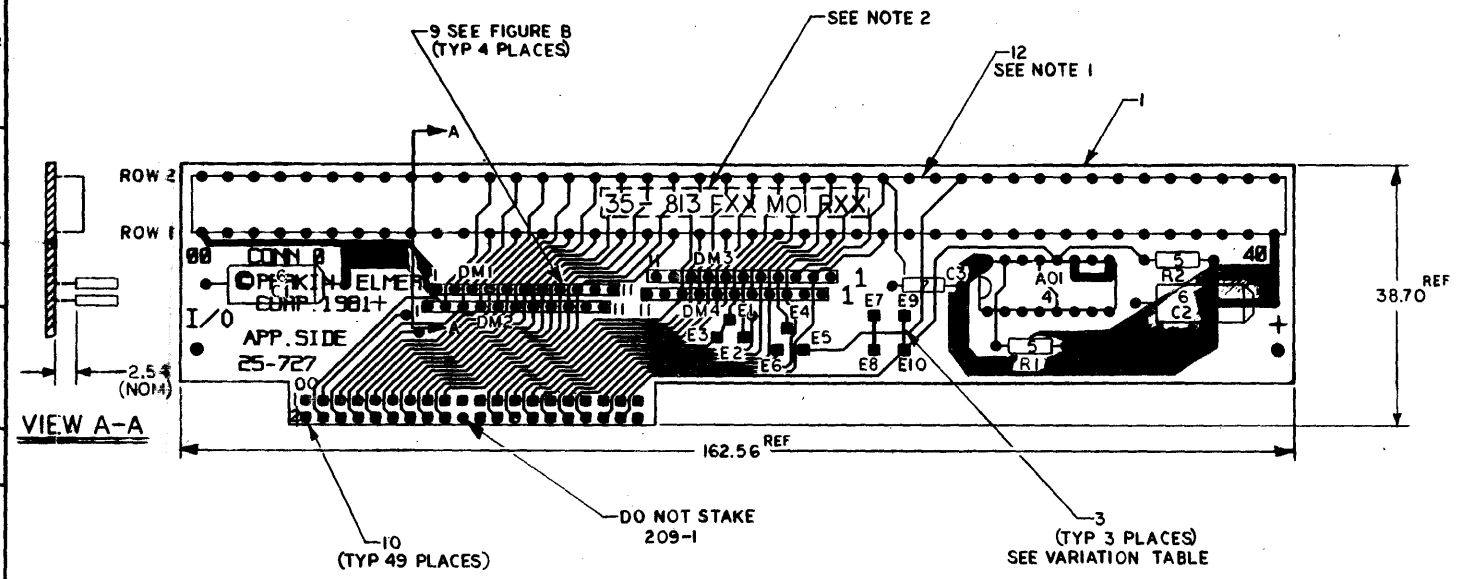
STRAPPING TABLE

NAME	TITLE	DATE
B. GRAY	DES / DFT	3-24-82
R. LERO	SUPV	3-24-82
	CHK	
M. MANGIONE	ENG	3-24-82
P. OBRDA	MGR	3-24-82
R. BARKER	QC	3-24-82

TITLE SCHEMATIC		
I/O TERM BOARD		
TASK 03179	SHT	
DWG 35-813 MC1RO1 COB	1	-1

MILLIMETER	INCHES
38.70	1.52
162.56	6.40
2.54	0.10

REVISIONS	
RELEASED FOR PRODUCTION	
MFG. ENG. <i>MJ</i>	DATE 3/24/82
REVISE TO REFLECT ROI COPPER, RELOCATED C3	
KR <i>8/11/11</i>	R 6-18-82/ROV



VIEW A-A

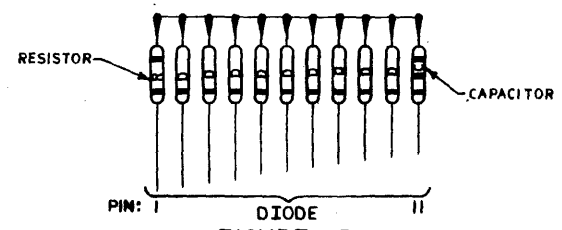


FIGURE B

FO2	AS SHOWN, STRAP E1-E3 ONLY
FO1	AS SHOWN LESS ITEMS 4&5, STRAP E7-E8, E9-E10 ONLY

VARIATION TABLE

NOTES: 1. BEND PINS CLOSEST TO EDGE OF BOARD INWARD PRIOR TO SOLDERING
2. FOR BOARD IDENTIFICATION SEE SSP 002-0D

TOLERANCE IN MILLIMETERS	
X	± .8
.X	± .5
.XX	± .13

UNLESS OTHERWISE SPECIFIED		
SCALE: 2/1	TOLERANCE IN INCHES	
DIMENSIONS ARE IN MILLIMETERS	.XXX ± .005	.X ± .03
	.XX ± .02	ANGLES ± 1°

NAME	TITLE	DATE
B. GRAY	DES / DFT	3-24-82
R. CERO	SUPV	3-24-82
	CHK	
M. MANGIONE	ENG	3-24-82
P. OBRDA	MGR	3-24-82
R. BARKER	QC	3-24-82

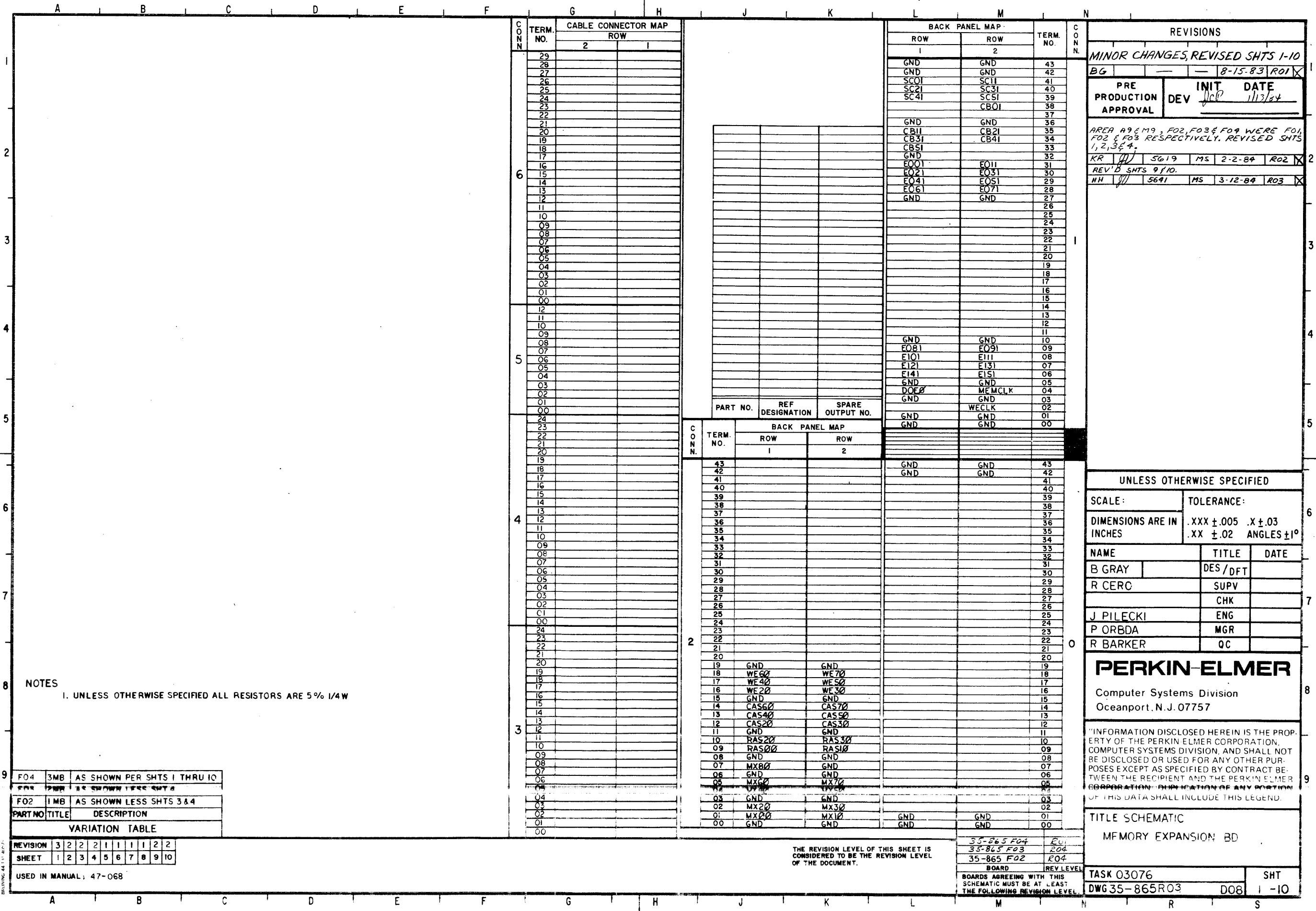
METRIC

USED IN MANUAL: 47-022

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TITLE	ASSEMBLY PRINTED CIRCUIT BOARD I/O TERM. BOARD	SMT	1-1
TASK	03179		
DWG	35-813 MOI/PCO3		



NOTES
 1. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE 5% 1/4W

F04	3MB	AS SHOWN PER SHTS 1 THRU 10
F02	1MB	AS SHOWN LESS SHTS 3 & 4
PART NO	TITLE	DESCRIPTION
VARIATION TABLE		

REVISION	3	2	2	2	1	1	1	1	2	2
SHEET	1	2	3	4	5	6	7	8	9	10

USED IN MANUAL: 47-068

C O N N.	TERM. NO.	CABLE CONNECTOR MAP		C O N N.	TERM. NO.	BACK PANEL MAP	
		ROW 2	ROW 1			ROW 1	ROW 2
6	29						
	28						
	27						
	26						
	25						
	24						
	23						
	22						
	21						
	20						
	19						
	18						
	17						
	16						
	15						
	14						
	13						
	12						
	11						
	10						
	09						
	08						
	07						
	06						
	05						
	04						
	03						
	02						
	01						
	00						
	24						
	23						
	22						
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	01						
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	31						
	30						
	29						
	28						
	27						
	26						
	25						
	24						
	23						
	22						
	21						
	20						
	19	GND	GND				
	18	WE60	WE70				
	17	WE40	WE50				
	16	WE20	WE30				
	15	GND	GND				
	14	CAS60	CAS70				
	13	CAS40	CAS50				
	12	CAS20	CAS30				
	11	GND	GND				
	10	RAS20	RAS30				
	09	RAS00	RAS10				
	08	GND	GND				
	07	MX80	GND				
	06	GND	GND				
	05	MX60	MX70				
	04	GND	GND				
	03	MX20	MX30				
	02	MX00	MX10				
	01	GND	GND				
	00	GND	GND				

REVISIONS			
MINOR CHANGES, REVISED SHTS 1-10			
BG		8-15-83	R01
PRE PRODUCTION APPROVAL	INIT DEV	DATE	11/3/84
AREA A9 & M9, F02, F03 & F04 WERE F01, F02 & F03 RESPECTIVELY. REVISED SHTS 1, 2, 3 & 4.			
KR	5619	MS	2-2-84 R02
REV'D SHTS 9/10.			
NH	5691	MS	3-12-84 R03

UNLESS OTHERWISE SPECIFIED		
SCALE:	TOLERANCE:	
DIMENSIONS ARE IN INCHES	.XXX ± .005	.X ± .03
	.XX ± .02	ANGLES ± 1°
NAME	TITLE	DATE
B GRAY	DES/DFT	
R CERC	SUPV	
	CHK	
J PILECKI	ENG	
P ORBDA	MGR	
R BARKER	QC	

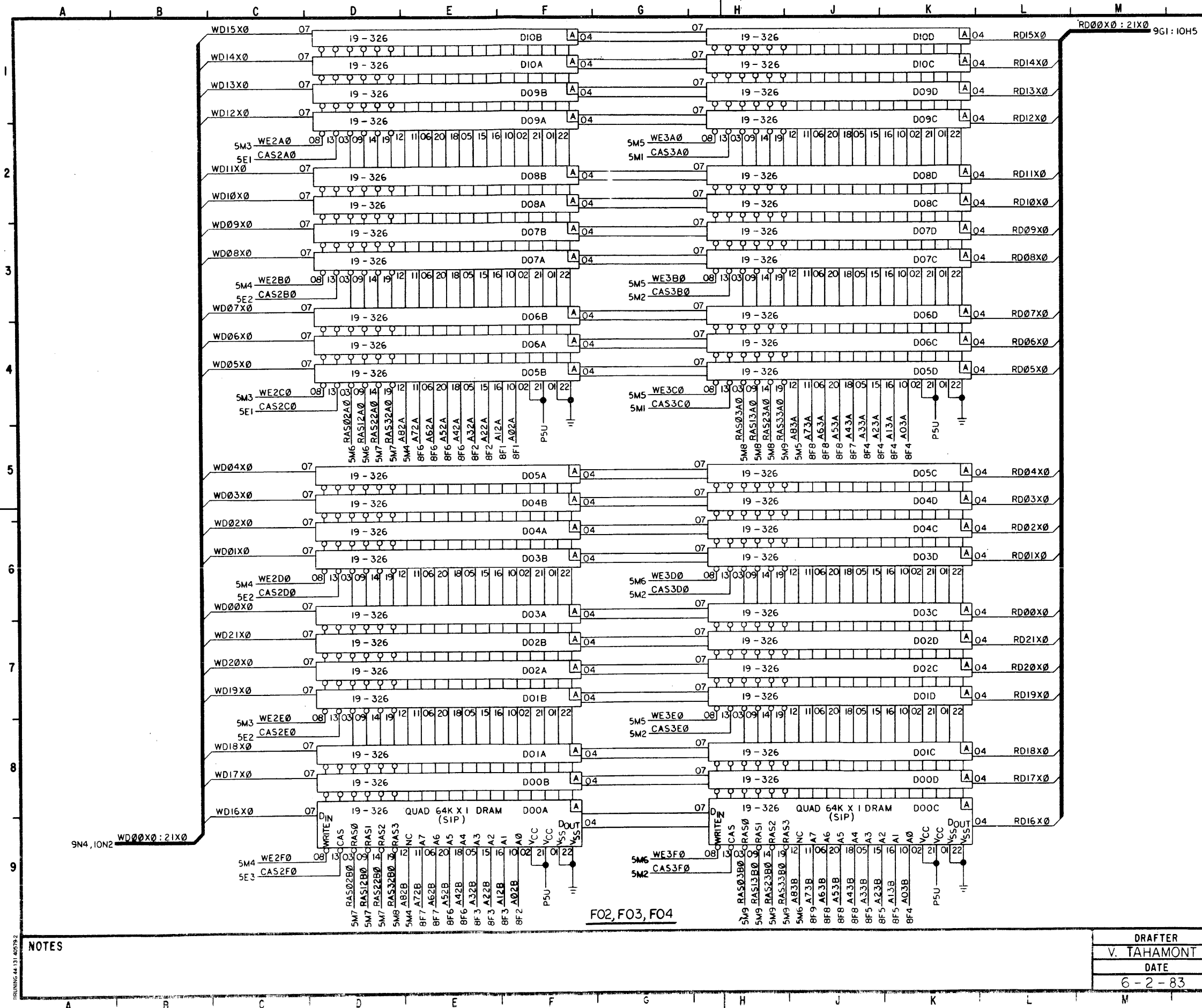
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TITLE SCHEMATIC		
MEMORY EXPANSION: BD		
TASK 03076	SHT	
DWG 35-865R03	D08	1-10

THE REVISION LEVEL OF THIS SHEET IS CONSIDERED TO BE THE REVISION LEVEL OF THE DOCUMENT.

35-865 F04	R01
35-865 F03	R04
35-865 F02	R04
BOARD	REV LEVEL
BOARDS AGREEING WITH THIS SCHEMATIC MUST BE AT LEAST THE FOLLOWING REVISION LEVEL.	



REVISIONS			
MINOR CHANGES			
BG	---	8-15-83	R01
AREA G9, "F02, F03, F04" WAS "F01, F02, F03".			
KR	JJ	5/6/79	M. 2-2-87 R02

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TITLE SCHEMATIC
 MEMORY ARRAY
 MEMORY EXPANSION BD.

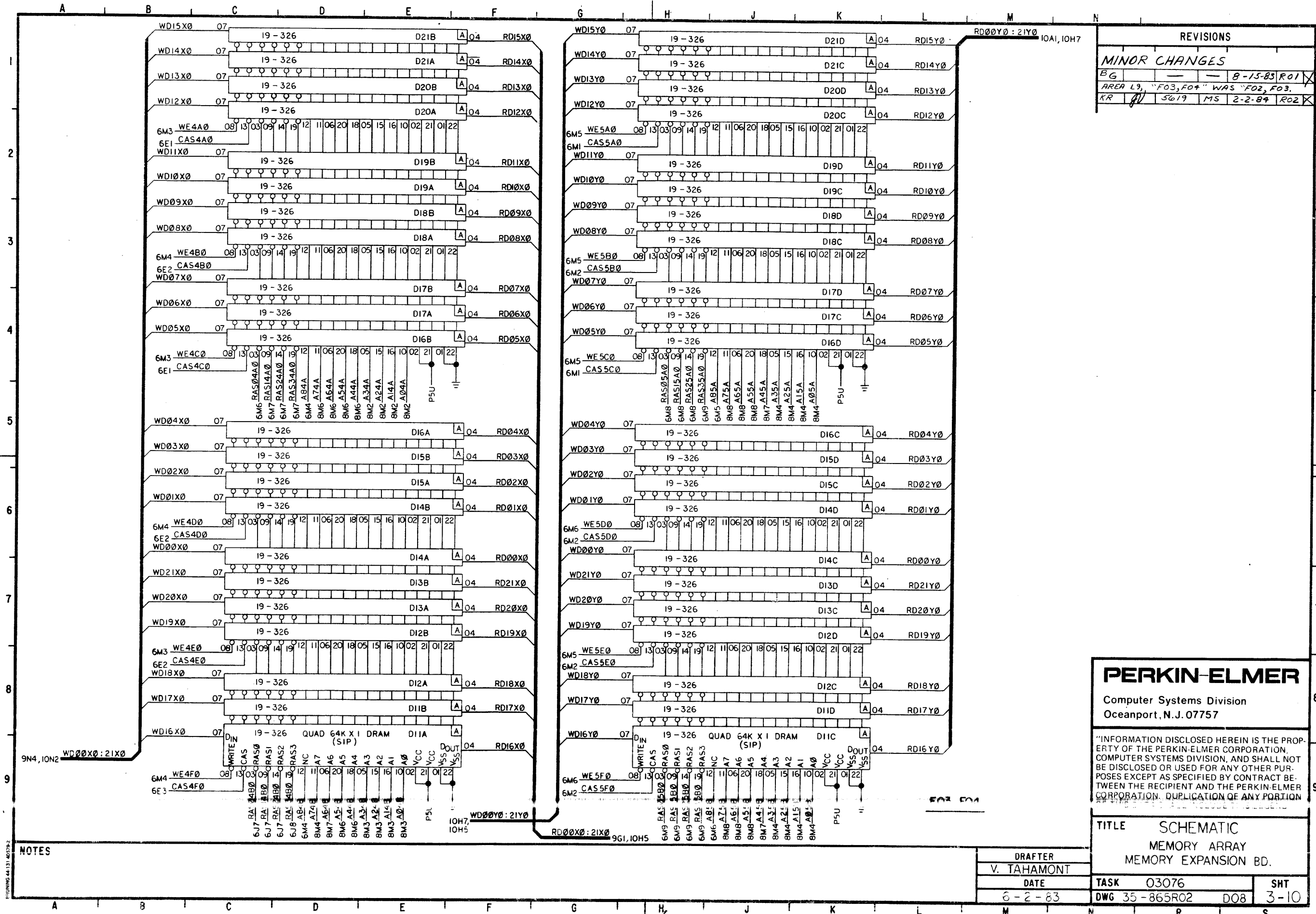
DRAFTER
 V. TAHAMONT
 DATE
 6-2-83

TASK 03076
 DWG 35-865R02 D08
 SHT 2-10

NOTES

F02, F03, F04

TRAINING 44 131 40792



REVISIONS			
MINOR CHANGES			
BG	—	—	8-15-83 R01
AREA L9, "F03, F04" WAS "F02, F03."			
KR	8/1	3619	MS 2-2-84 R02

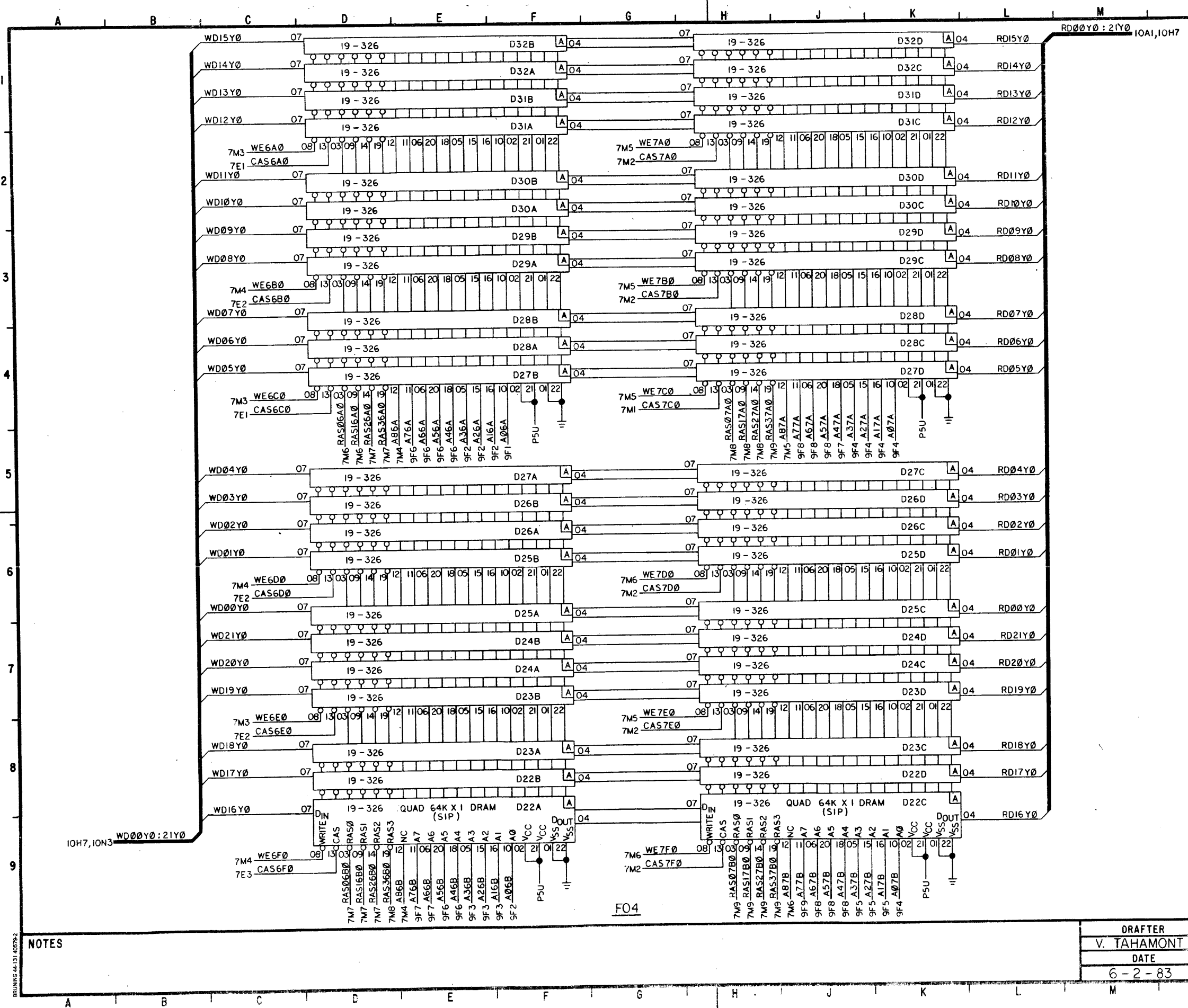
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TITLE		SCHEMATIC	
		MEMORY ARRAY	
		MEMORY EXPANSION BD.	
DRAFTER	V. TAHAMONT	TASK	O3076
DATE	6-2-83	DWG	35-865R02
		SHT	3-10

NOTES

DRAWING 44-131-40792-2



REVISIONS			
MINOR CHANGES			
BG	—	8-15-83	R01
AREA G9, "F04" WAS "F03".			
KR	(1)	5619 M	2-2-84 R02

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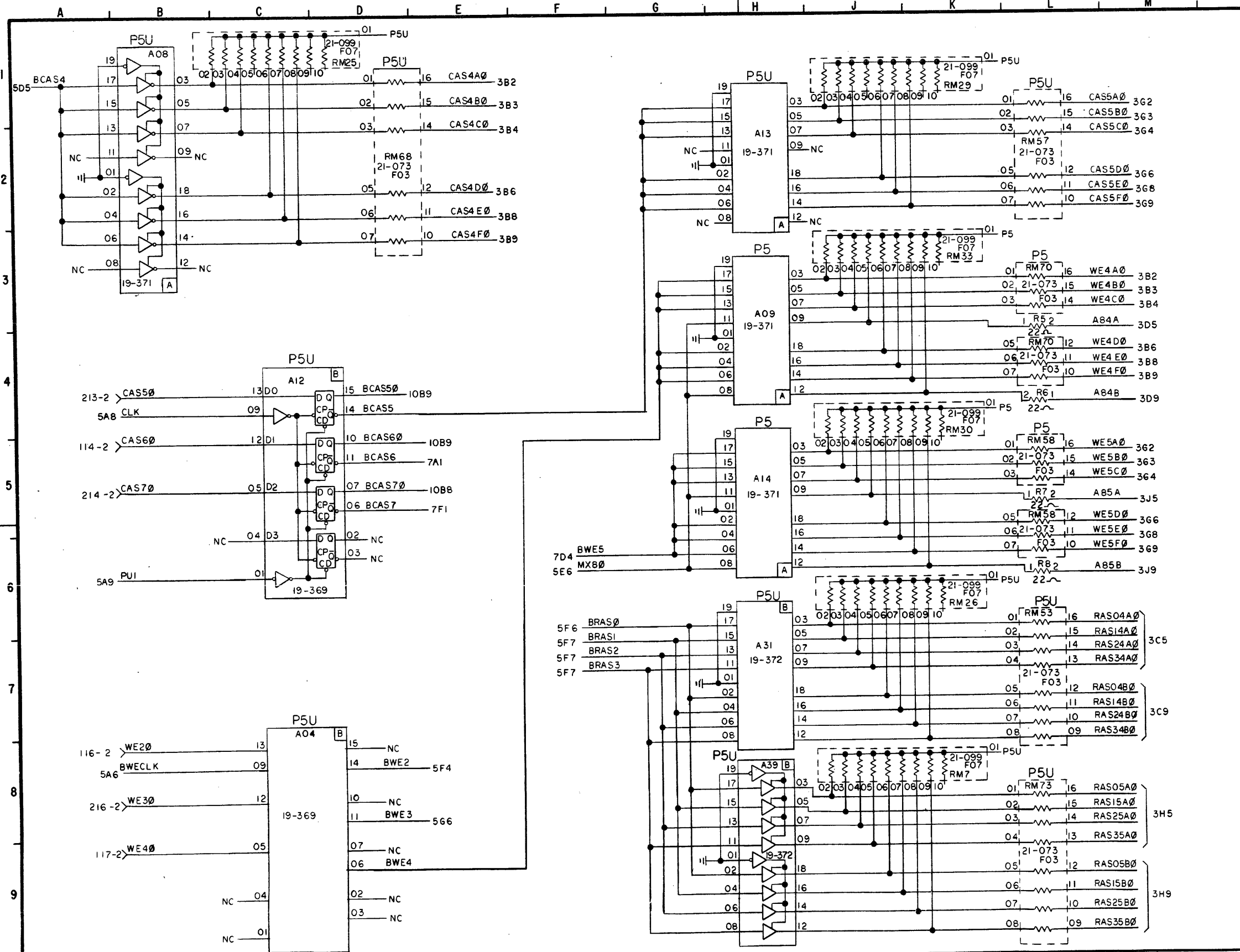
TITLE		SCHEMATIC	
		MEMORY ARRAY	
		MEMORY EXPANSION BD.	
DRAFTER	V. TAHAMONT	TASK	03076
DATE	6-2-83	DWG	35-865R02
		D08	SHT 4-10

NOTES

F04

BRUNING 44131 A05792

REVISIONS			
MINOR CHANGES			
B6		8-15-83	R01



NOTES

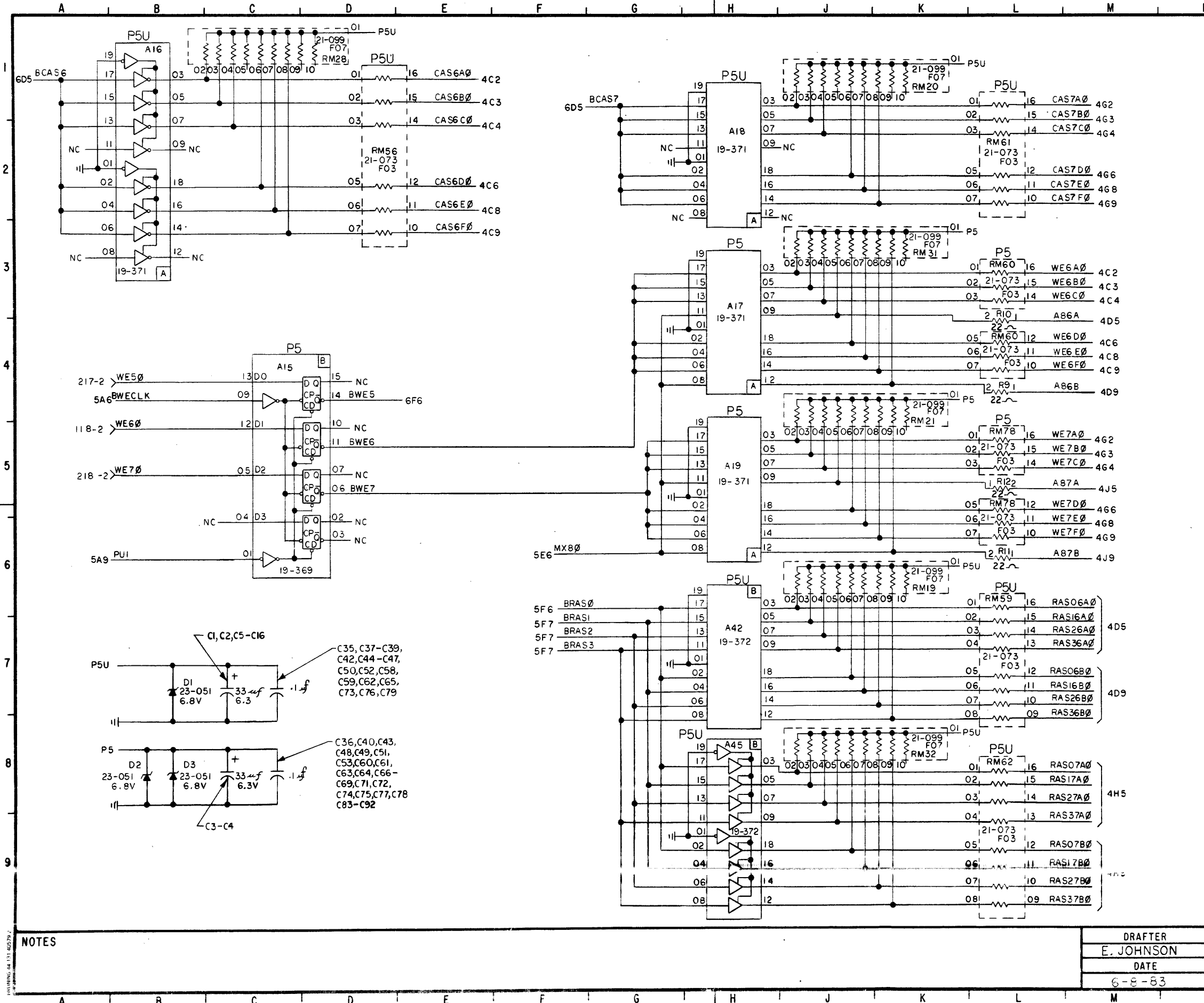
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 Oceanport, N.J. 07757

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TITLE
 MEMORY BUFFER
 MEMORY EXPANSION BD

DRAFTER E. JOHNSON	TASK 03076	SHT
DATE 6-8-83	DWG 35-865 R01	D08 6-10

BRUNING 44-131 40579-2



REVISIONS			
MINOR CHANGES			
BG	—	—	8-15-83 R01 X

NOTES

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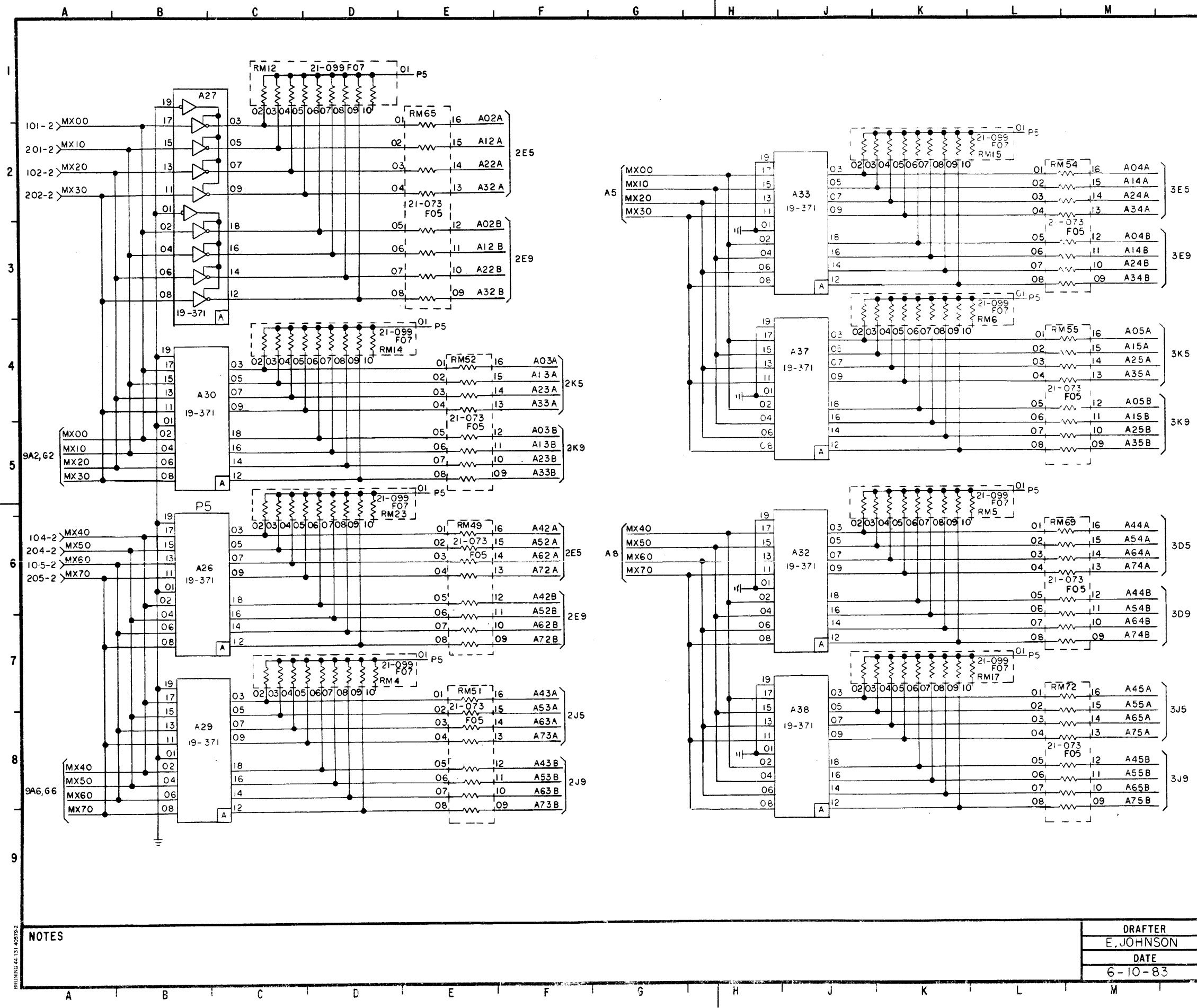
"INFORMATION DISCLOSED HEREIN IS THE PROPERTY OF THE PERKIN-ELMER CORPORATION, COMPUTER SYSTEMS DIVISION, AND SHALL NOT BE DISCLOSED OR USED FOR ANY OTHER PURPOSES EXCEPT AS SPECIFIED BY CONTRACT BETWEEN THE RECIPIENT AND THE PERKIN-ELMER CORPORATION. PUBLICATION OF ANY PORTION OF THIS DATA SHALL INCLUDE THIS LEGEND.

TITLE
 MEMORY BUFFER
 MEMORY EXPANSION BD

DRAFTER E. JOHNSON	TASK 03076	SHT
DATE 6-8-83	DWG 35-865R01	D08 7-10

DRAWING 44 131 40279-2

REVISIONS			
MINOR CHANGES			
BG		8-15-83	ROI



NOTES

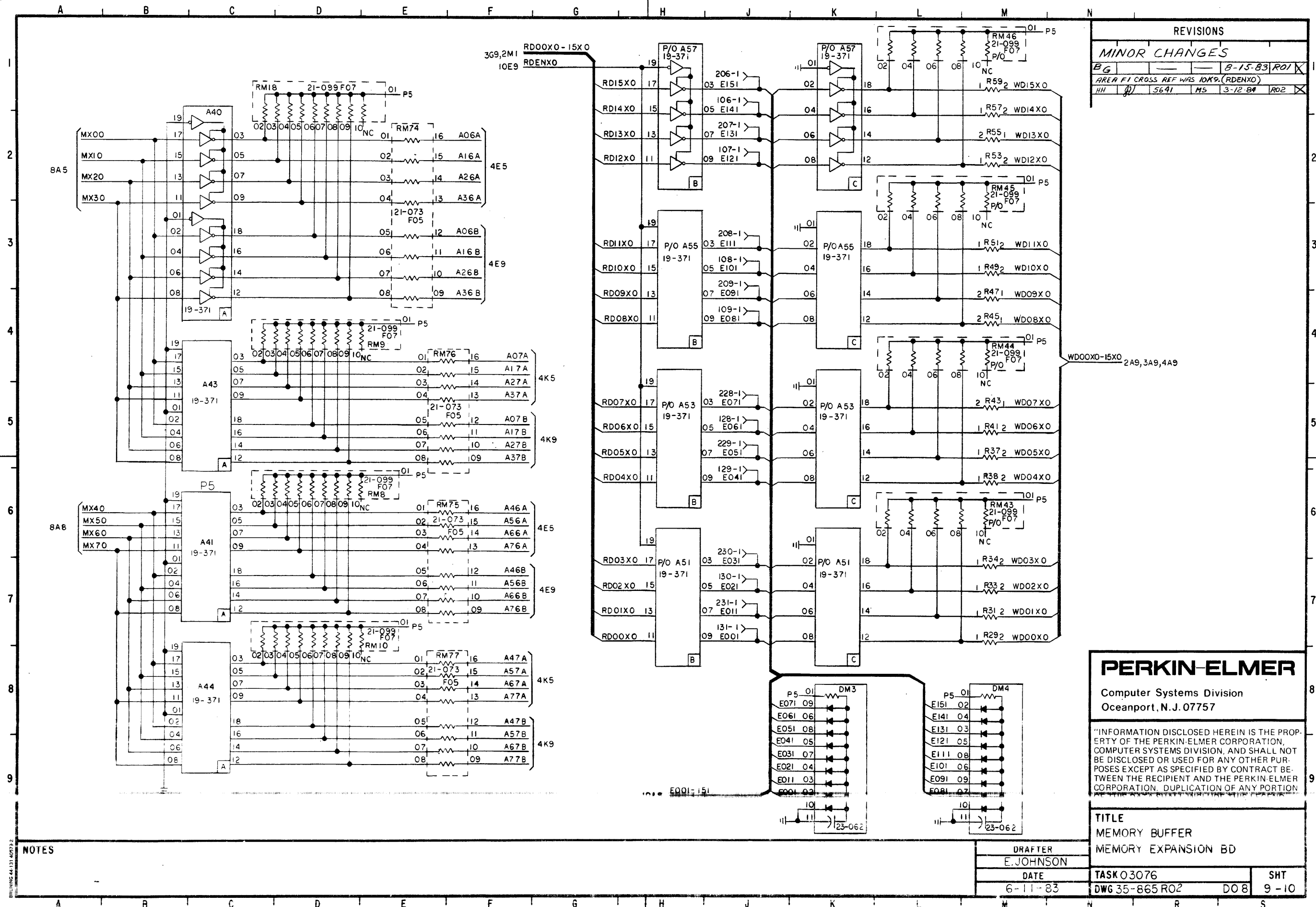
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TITLE
 MEMORY BUFFER
 MEMORY EXPANSION BD

DRAFTER E. JOHNSON	TASK 03076	SHT
DATE 6-10-83	DWG 35-865 ROI	8-10

REVISED 44 131 40579-2



REVISIONS				
MINOR CHANGES				
BG			8-15-83	RO1
AREA F1 CROSS REF WAS 10K9.(RDEXO)				
HH	01	5641	MS 3-12-84	RO2

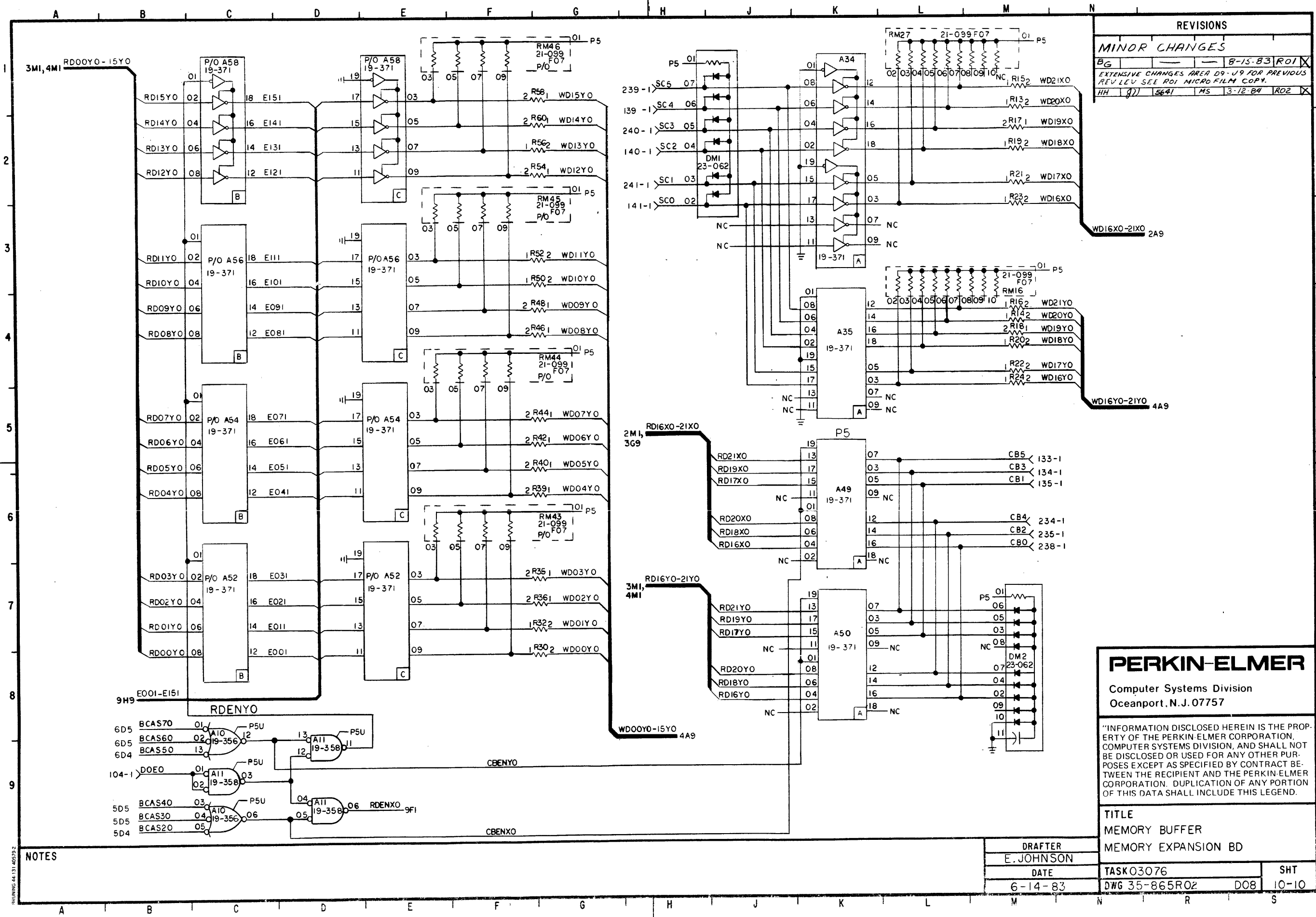
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TITLE		MEMORY BUFFER	
MEMORY EXPANSION BD			
DRAFTER	E. JOHNSON	TASK	O3076
DATE	6-11-83	DWG	35-865 R02
		DO B	SHT 9-10

NOTES

BRUNING 44-131 40732



REVISIONS			
MINOR CHANGES			
BG		8-15-83	RO1
EXTENSIVE CHANGES AREA D9-J9 FOR PREVIOUS REV. LVL SEE RO1 MICRO FILM COPY.			
HH	87	5641	MS 3-12-84 RO2

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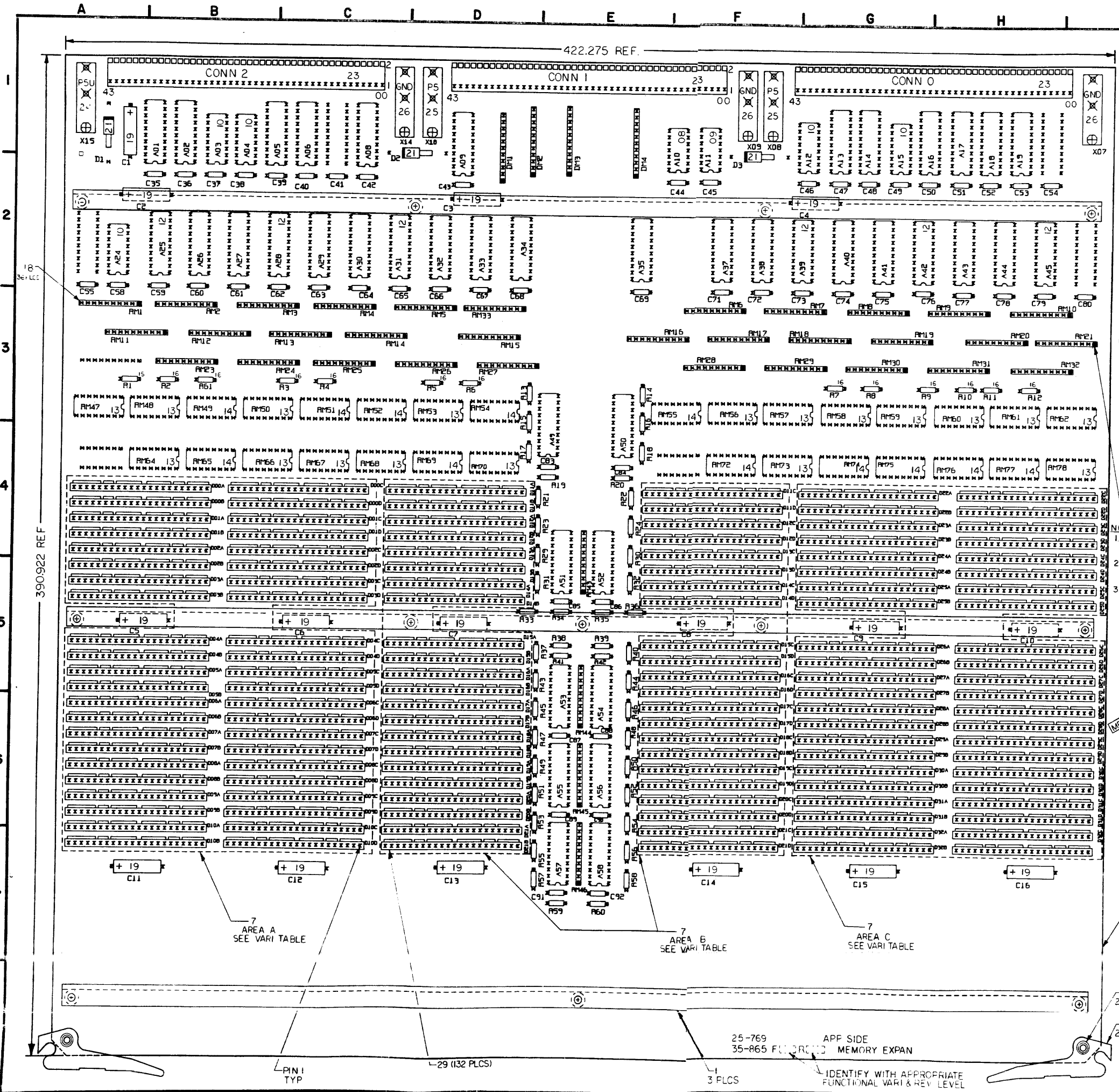
"INFORMATION DISCLOSED HEREIN IS THE PROPERTY OF THE PERKIN-ELMER CORPORATION, COMPUTER SYSTEMS DIVISION, AND SHALL NOT BE DISCLOSED OR USED FOR ANY OTHER PURPOSES EXCEPT AS SPECIFIED BY CONTRACT BETWEEN THE RECIPIENT AND THE PERKIN-ELMER CORPORATION. DUPLICATION OF ANY PORTION OF THIS DATA SHALL INCLUDE THIS LEGEND.

TITLE
 MEMORY BUFFER
 MEMORY EXPANSION BD

DRAFTER	E. JOHNSON
DATE	6-14-83
TASK	TASK03076
DWG	DWG 35-865R02
SHT	10-10

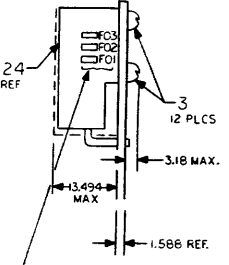
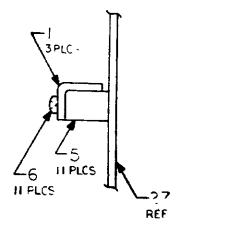
NOTES

16000000-44 (31) 409792



REVISIONS		
PRE PRODUCTION APPROVAL	DEV PROD	INIT DATE
		11/74

1. VARIATION TABLE, F02 (1MB), F03 (2MB), F04 (3MB) WERE 251 (1MB), 252 (2MB), 253 (3MB) RESPECTIVELY.
 2. AREA D REM 29 WAS 29/30 TYP
 3. AREA D REM 29 WAS 29/30 TYP
 4. AREA D REM 29 WAS 29/30 TYP



REF TAB POSITIONS FOR FUNCTIONAL VARIATIONS
 PARTIAL VIEW A-A

FILLED IN PAD INDICATES PIN 1 OF ALL RESISTOR MODULES AND DIODE MODULES

- NOTES
- UNLESS OTHERWISE SPECIFIED ALL IC'S ARE 19-371 (ITEM 11)
 - UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE 33^Ω (ITEM 17)
 - UNLESS OTHERWISE SPECIFIED ALL CAPS ARE 0.1M (ITEM 20)

35-865 F04	3MB	AS SHOWN
35-865 F03	2MB	AS SHOWN LESS ITEM 7 IN AREA C
35-865 F02	1MB	AS SHOWN LESS ITEM 7 IN AREAS B&C

PART NO. TITLE DESCRIPTION VARIATION TABLE

MILLIMETERS	INCHES
1.588	.060
3.18	.125
13.494	.530
390.922	15.405
422.275	16.630

USED IN MANUAL: 47-068

UNLESS OTHERWISE SPECIFIED		
SCALE: 2:1	TOLERANCE:	
DIMENSIONS ARE IN INCHES	.XXX ± .005 .X ± .03 .XX ± .02 ANGLES ± 1°	
NAME	TITLE	DATE
B. GRAY	DES/DFT	12-4-73
R. CERO	SUPV	
J. PILECKI	CHK	
P. OBRDA	MGR	
R. BARKER	QC	

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TITLE ASSEMBLY DRAWING
 MEMORY EXPANSION

TASK 03076	SHT
DWG 35-865 R02	E03 1-1

390922 REF

422.275 REF

18 36 LCC

390922 REF

7

8

7 AREA A SEE VARI TABLE

7 AREA B SEE VARI TABLE

7 AREA C SEE VARI TABLE

25-769 APP SIDE
 35-865 MEMORY EXPAN

IDENTIFY WITH APPROPRIATE FUNCTIONAL VARI & REV LEVEL

PIN 1 TYP

29 (132 PLCS)

3 PLCS

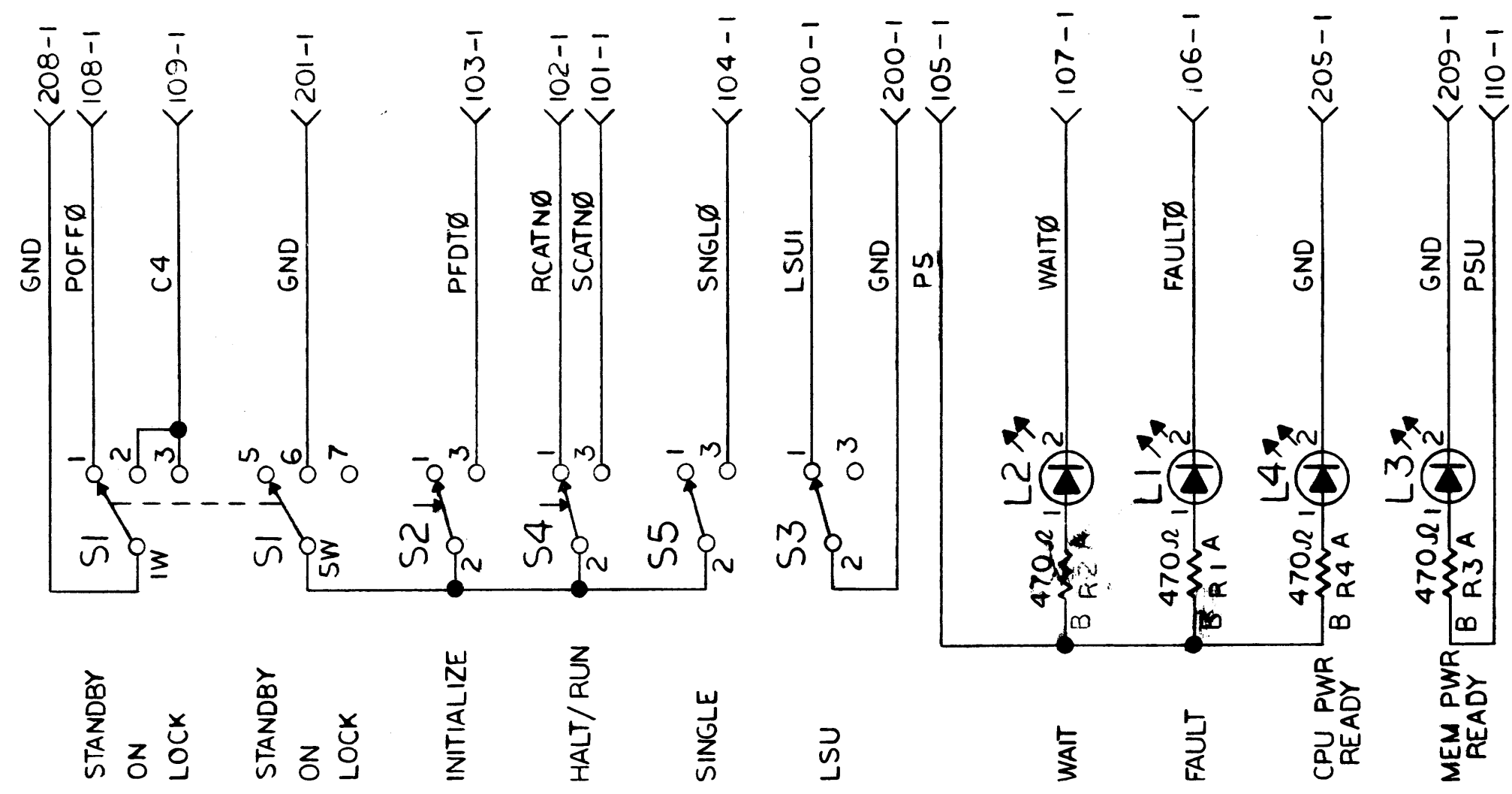
4 2 PLCS

2 PLCS

REVISIONS

PRE PRODUCTION APPROVAL	INIT DATE DEV <i>[Signature]</i> 4-15-81
-------------------------	---

RELEASED FOR PRODUCTION
DEV ENG. *[Signature]* DATE 2-17-81



USED IN MANUAL : 47-022

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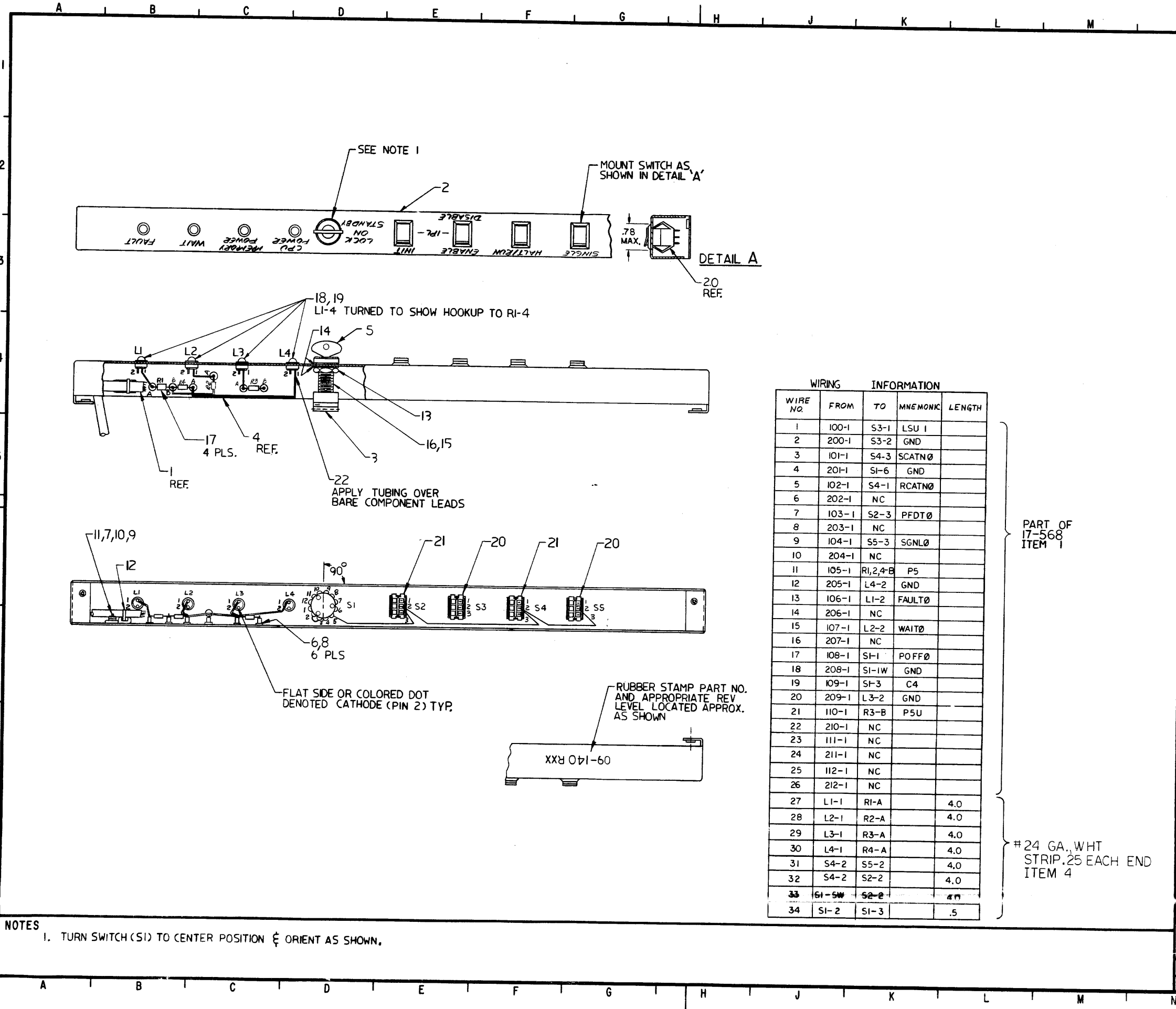
UNLESS OTHERWISE SPECIFIED		
SCALE:	TOLERANCE:	
DIMENSIONS ARE IN INCHES	.XXX ± .005 .X ± .03 .XX ± .02 ANGLES ± 1°	
NAME	TITLE	DATE
J. TAMUL	DES / DFT	1-21-81
R. CERD	SUPV	9-15-81
	CHK	
D. FOGGIA	ENG	9-15-81
P. ABITANTE	MGR	9-15-81
R. BARKER	QC	9-15-81

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TITLE	SCHEMATIC CONTROL PANEL	
TASK	03175	SHT
DWG	09-140	B08
		1-1

NOTES

BRUNING 44-131 405 79



REVISIONS	
PRE PRODUCTION APPROVAL	INIT DATE
DEV	4-15-81
PROD	4/15/81
REVISED AREAS C4 & C7	
OWN	J.P.L. 4816 R 8-25-81 R01
RELEASED FOR PRODUCTION	
MFG. ENG.	DATE
J.P.L.	9-15-81
EXTENSIVE CHANGES TO WIRING TABLE, FOR PREVIOUS REV LEVEL SEE ROI MICRO-FILM.	
KR	4881 E 3-26-82 R02

USED IN MANUAL 47-022

UNLESS OTHERWISE SPECIFIED		
SCALE:	TOLERANCE:	
DIMENSIONS ARE IN INCHES	.XXX ± .005	.X ± .03
	.XX ± .02	ANGLES ± 1°
NAME	TITLE	DATE
J. TAMUL	DES/DFT	1-6-81
R. CERO	SUPV	9-15-81
	CHK	
D. FOGGIA	ENG	9-15-81
P. ABITANTE	MGR	9-15-81
R. BARKER	QC	9-15-81

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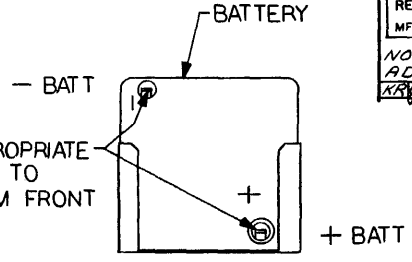
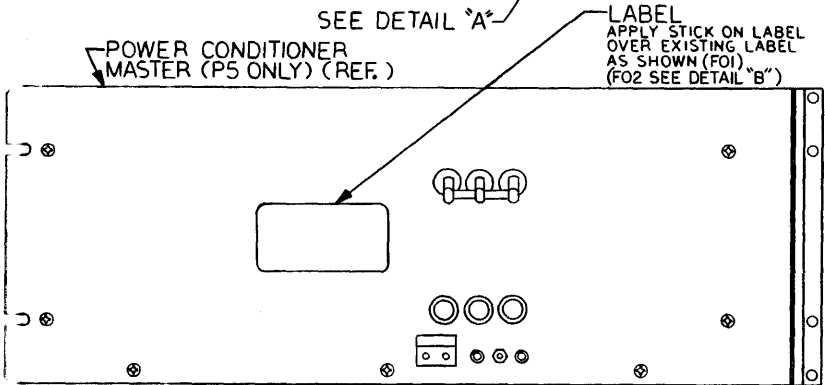
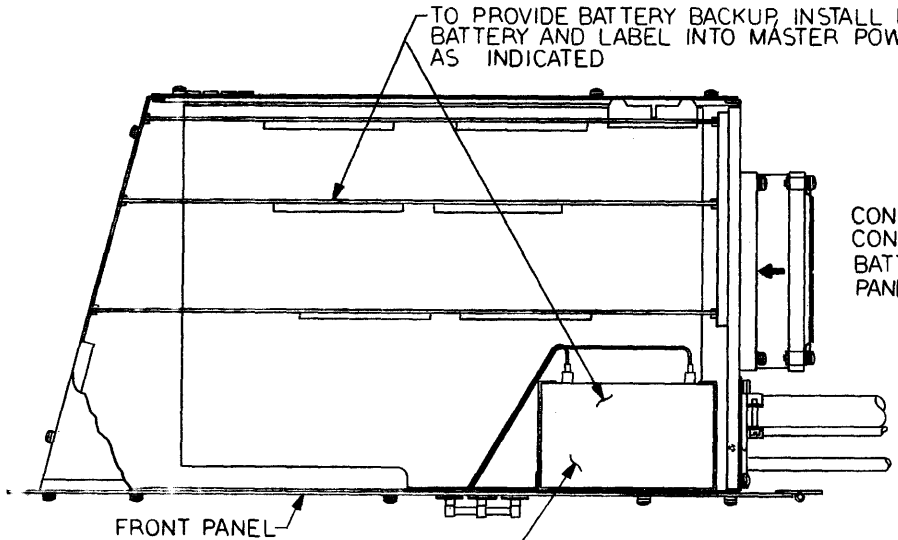
TITLE	
ASSEMBLY - CONTROL PANEL CABINET	
TASK 03175	SHT
DWG 09-140 R02 D03	1-1

NOTES

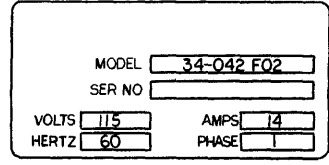
1. TURN SWITCH (S1) TO CENTER POSITION & ORIENT AS SHOWN.

DRAWING 44-131-40279

A B C D E F G H J K



DETAIL "A"
INSTALL BATTERY AS SHOWN



DETAIL "B"
(FO2 ONLY)

REVISIONS		
PRE PRODUCTION APPROVAL	DEV DATE	DATE
RELEASED FOR PRODUCTION	PROD DATE	DATE
MFG. ENG.		DATE
NOTE 1, ADDED "(3210)"		
ADDED NOTE 2 & DETAIL "B"		
KRYD J339R 5-17-83 ROJ		

47-042
USED IN MANUAL 47-020

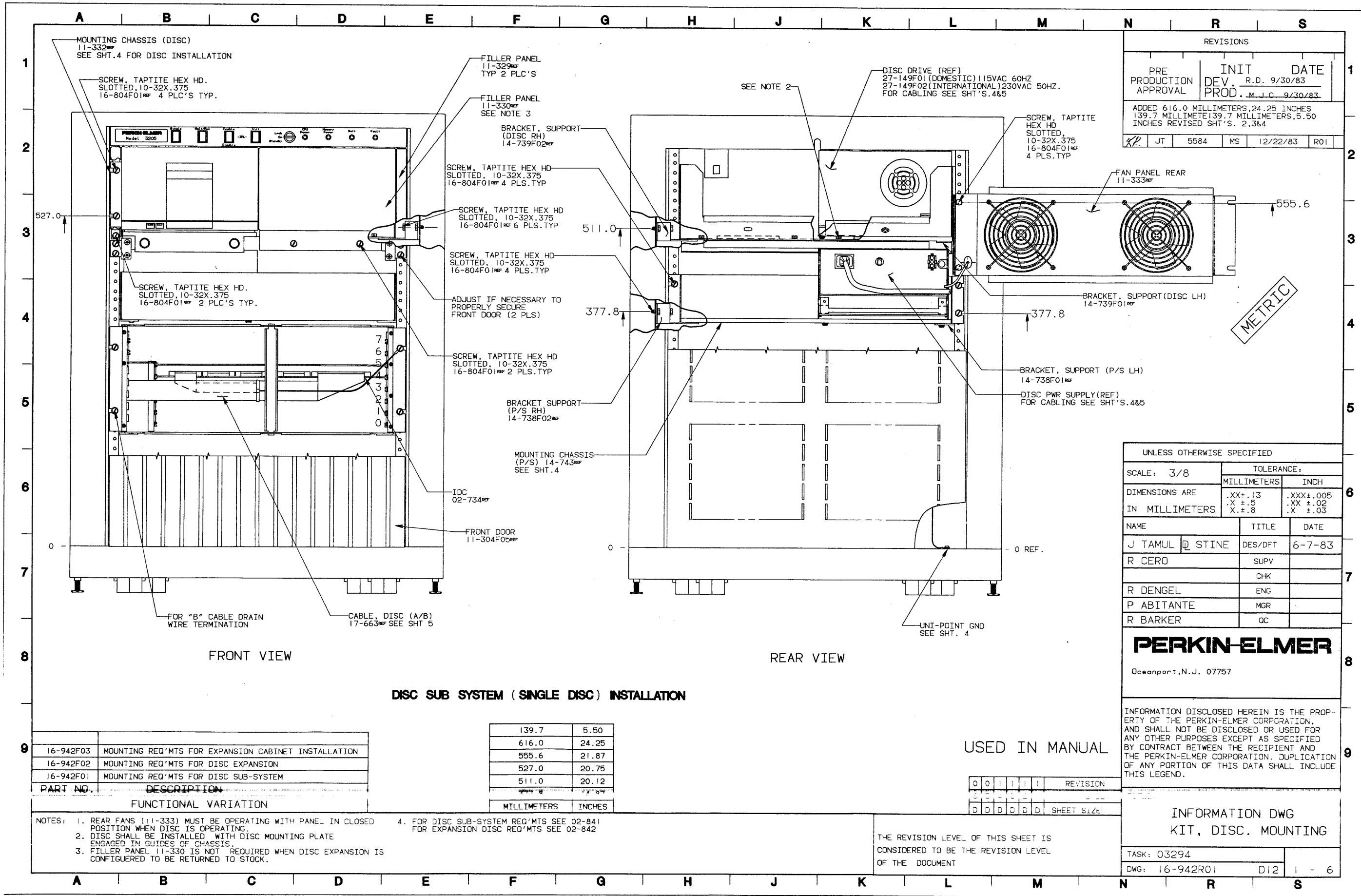
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UNLESS OTHERWISE SPECIFIED			
SCALE: 1/2	TOLERANCE:		
DIMENSIONS ARE IN INCHES	.XXX ± .005	.X ± .03	ANGLES ± 1°
	.XX ± .02		
NAME	TITLE	DATE	
J TAMUL	DES / DFT	10-21-81	
R CERO	SUPV	8-17-82	
	CHK		
R DENGEL	ENG	8-17-82	
P ABITANTE	MGR	8-17-82	
R BARKER	QC	8-17-82	

TITLE	
INFORMATION DWG. PSU EXPANSION	
TASK 03131	SHT 1-1
DWG 02-745 MOIROIC12	

- NOTES**
1. FOR MEMORY MODULE INFO SEE CPU CHASSIS DWG. 02-783D12 AND 02-784D12 (3210).
 2. FOR MEMORY MODULE INFO SEE CPU CHASSIS DWG. 02-839D12 (3205).



REVISIONS			
PRE PRODUCTION APPROVAL	INIT DEV. PROD.	DATE	
	R.D.	9/30/83	
	M.J.O.	9/30/83	
ADDED 616.0 MILLIMETERS, 24.25 INCHES 139.7 MILLIMETER, 5.50 INCHES REVISED SHT'S. 2, 3&4			
K.P.	JT	5584 MS	12/22/83 R01

UNLESS OTHERWISE SPECIFIED		
SCALE:	TOLERANCE:	
3/8	MILLIMETERS	INCH
DIMENSIONS ARE	.XX±.13	.XXX±.005
IN MILLIMETERS	.X ±.5	.XX ±.02
	X ±.8	.X ±.03
NAME	TITLE	DATE
J TAMUL @ STINE	DES/DFT	6-7-83
R CERO	SUPV	
	CHK	
R DENGEL	ENG	
P ABITANTE	MGR	
R BARKER	QC	

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PART NO.	DESCRIPTION
16-942F03	MOUNTING REQ'MTS FOR EXPANSION CABINET INSTALLATION
16-942F02	MOUNTING REQ'MTS FOR DISC EXPANSION
16-942F01	MOUNTING REQ'MTS FOR DISC SUB-SYSTEM

139.7	5.50
616.0	24.25
555.6	21.87
527.0	20.75
511.0	20.12
MILLIMETERS	INCHES

NOTES: 1. REAR FANS (11-333) MUST BE OPERATING WITH PANEL IN CLOSED POSITION WHEN DISC IS OPERATING.
2. DISC SHALL BE INSTALLED WITH DISC MOUNTING PLATE ENGAGED IN GUIDES OF CHASSIS.
3. FILLER PANEL 11-330 IS NOT REQUIRED WHEN DISC EXPANSION IS CONFIGURED TO BE RETURNED TO STOCK.

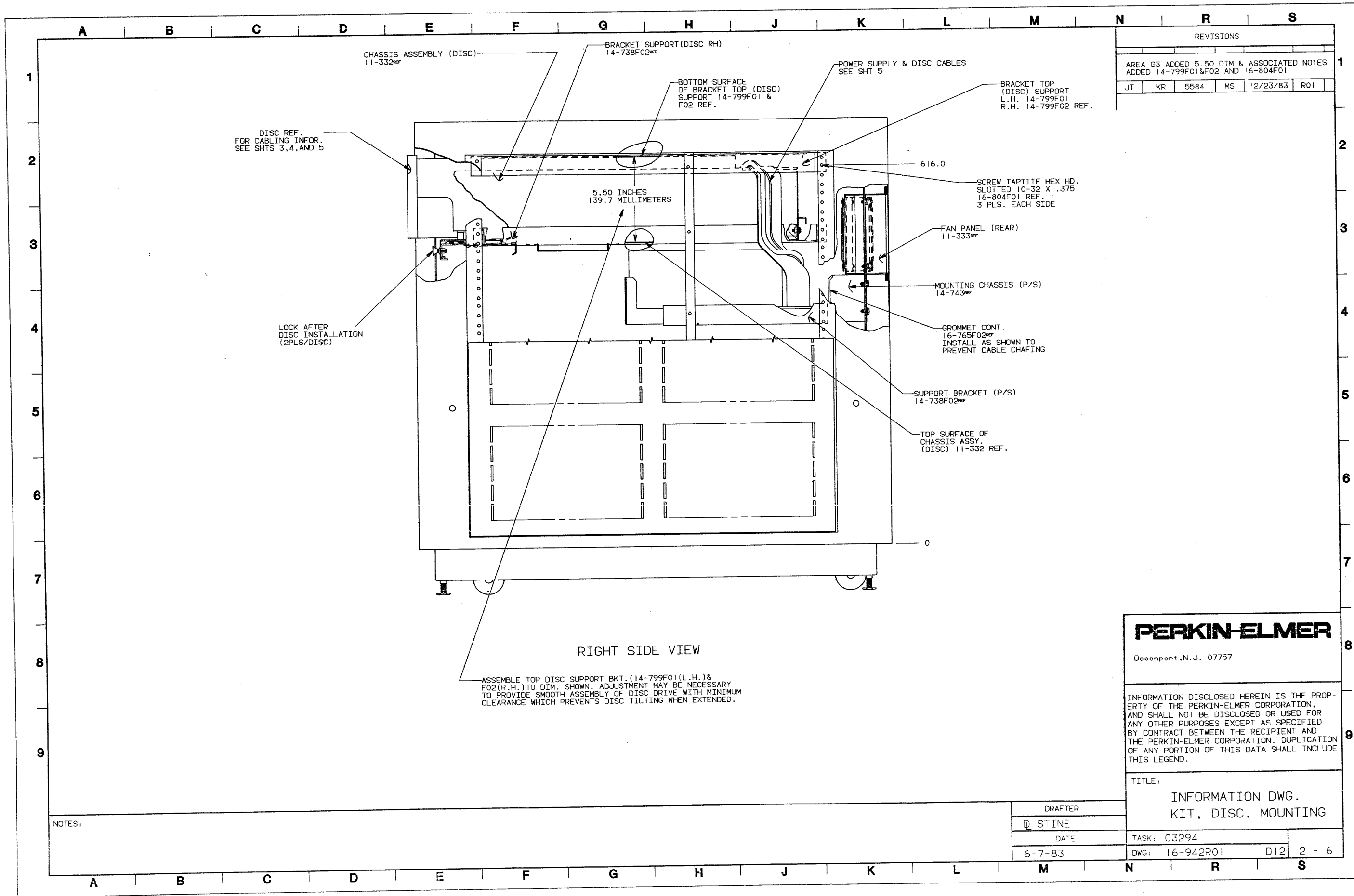
4. FOR DISC SUB-SYSTEM REQ'MTS SEE 02-841 FOR EXPANSION DISC REQ'MTS SEE 02-842

THE REVISION LEVEL OF THIS SHEET IS CONSIDERED TO BE THE REVISION LEVEL OF THE DOCUMENT

USED IN MANUAL

REVISION
0 0 1 1 1 1
0 0 0 0 0 0

INFORMATION DWG
KIT, DISC. MOUNTING
TASK: 03294
DWG: 16-942R01 D12 1 - 6



REVISIONS					
AREA G3 ADDED 5.50 DIM & ASSOCIATED NOTES ADDED 14-799F01&F02 AND 16-804F01					
JT	KR	5584	MS	12/23/83	R01

ASSEMBLE TOP DISC SUPPORT BKT. (14-799F01 (L.H.) & F02 (R.H.)) TO DIM. SHOWN. ADJUSTMENT MAY BE NECESSARY TO PROVIDE SMOOTH ASSEMBLY OF DISC DRIVE WITH MINIMUM CLEARANCE WHICH PREVENTS DISC TILTING WHEN EXTENDED.

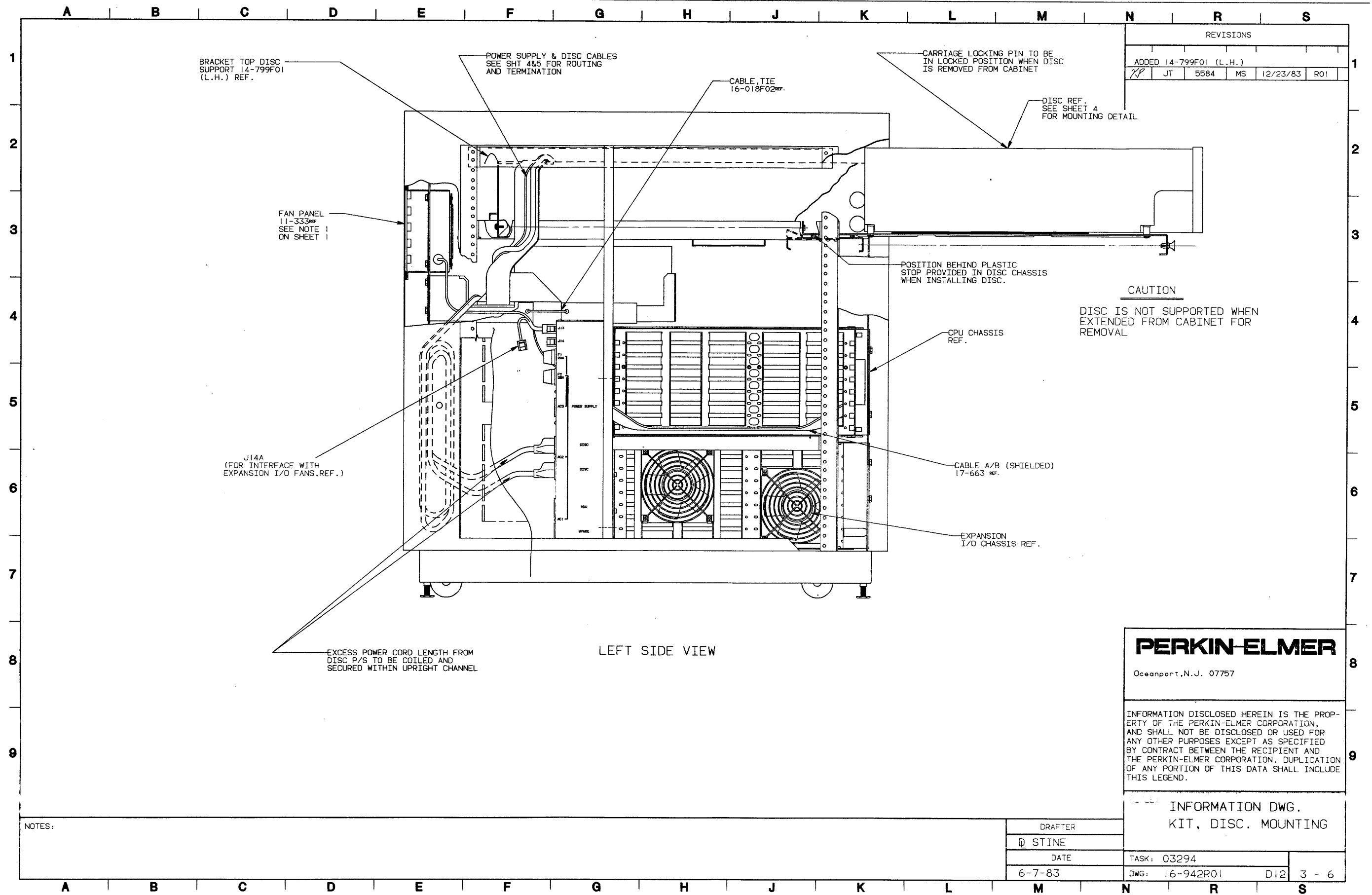
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TITLE:
INFORMATION DWG.
KIT, DISC. MOUNTING

NOTES:

DRAFTER	D STINE		
DATE	6-7-83	TASK: 03294	DWG: 16-942R01
		D12	2 - 6



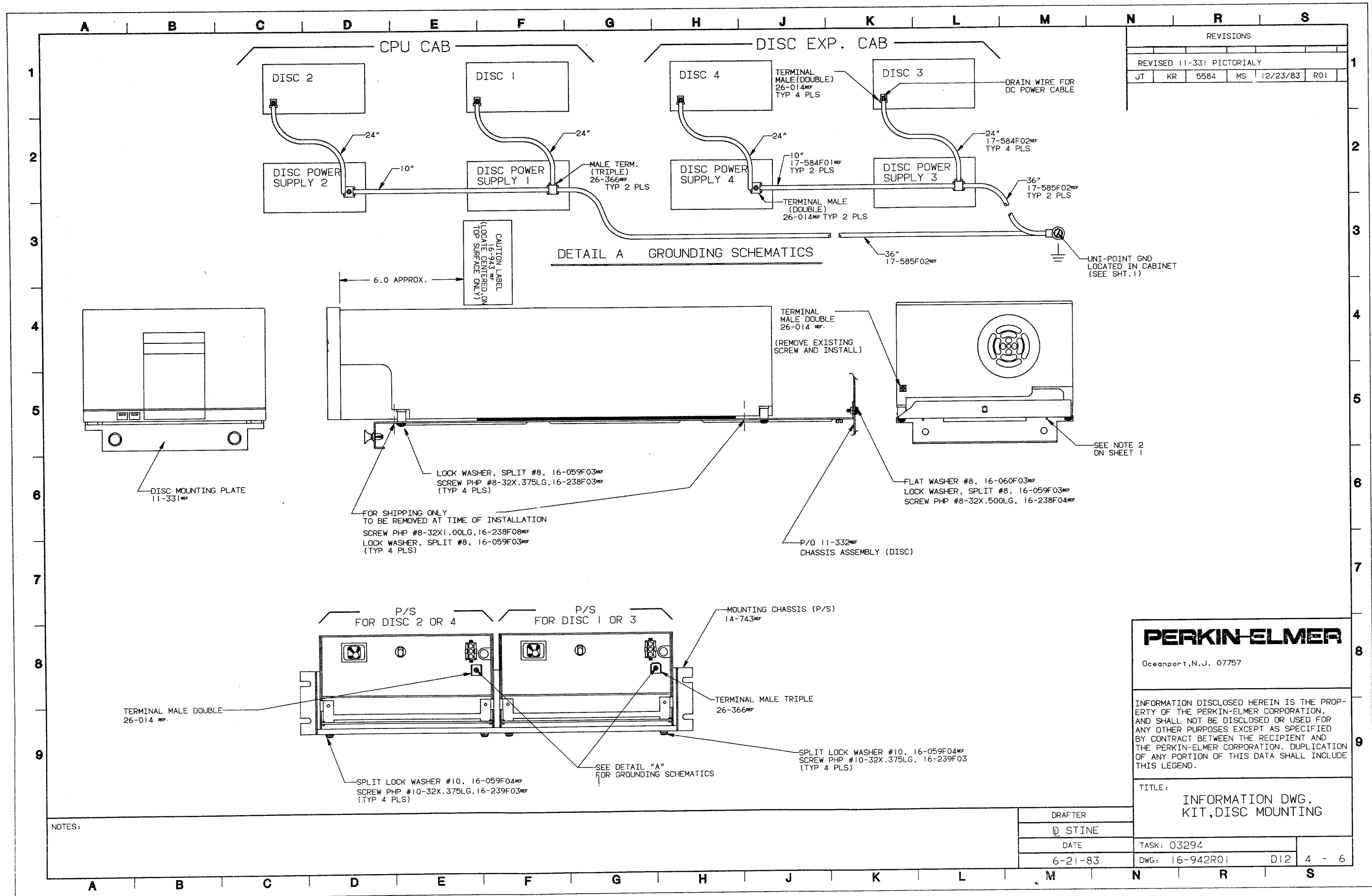
REVISIONS					
ADDED 14-799F01 (L.H.)					
J.P.	JT	5584	MS	12/23/83	RO1

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INFORMATION DWG.	
KIT, DISC. MOUNTING	
DRAFTER D STINE	TASK: 03294
DATE 6-7-83	DWG: 16-942R01 D12 3 - 6

NOTES:



NOTES:

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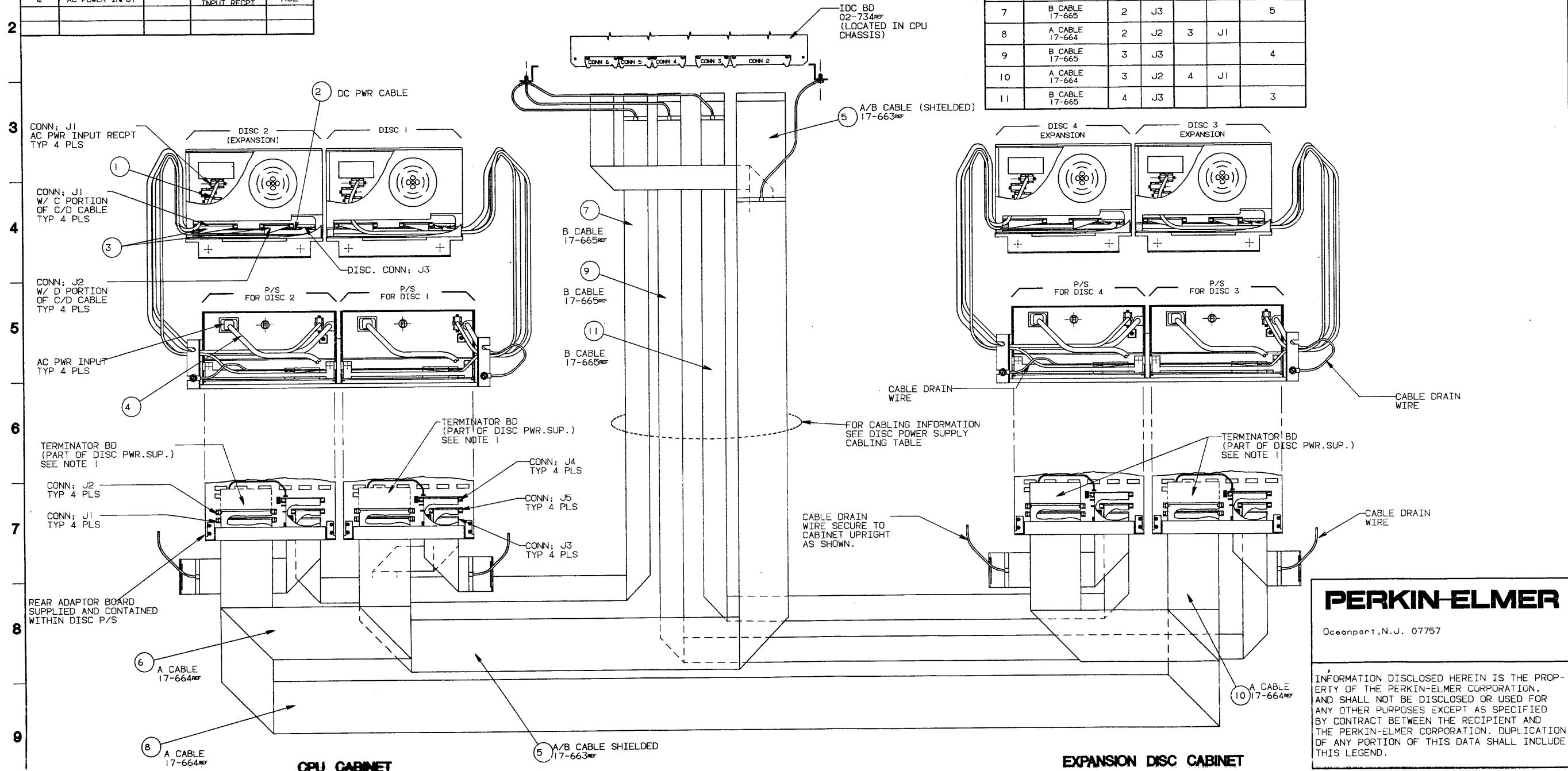
TITLE:
**INFORMATION DWG.
 KIT, DISC MOUNTING**

DRAFTER	D STINE		
DATE	6-21-83	TASK: 03294	DWG: 16-942R01
			D12 4 - 6

DISC TO DISC POWER SUPPLY CABLING (TYP)				
CABLE NO	CABLE DESCRIPTION	FROM: DISC	TO: DISC POWER/SUPPLY	TO: CAB AC PANEL
1	AC POWER (BLACK)	J1	J1	
2	DC POWER (GRAY)	J3	INTERNALLY CONNECTED	
3	17-672 (C) C/D CABLE SHIELDED (D)	J1	J4	
		J2	J5	
4	AC POWER INPUT		AC POWER INPUT RECPT	AC2

DISC POWER SUPPLY CABLING					
CABLE NO	CABLE DESCRIPTION	FROM: DISC POWER SUPPLY		TO: DISC POWER SUPPLY	
		P/S NO	CONN NO	P/S NO	CONN NO
5	A/B CABLE (A) (SHIELDED) (B)	1	J1		2
		1	J3		6
6	A CABLE 17-664	1	J2	2	J1
7	B CABLE 17-665	2	J3		5
8	A CABLE 17-664	2	J2	3	J1
9	B CABLE 17-665	3	J3		4
10	A CABLE 17-664	3	J2	4	J1
11	B CABLE 17-665	4	J3		3

REVISIONS	
1	
2	
3	
4	
5	
6	
7	
8	
9	



NOTES: 1. CONFIGURATION DEPENDENT CONNECTION (J2) FOR 'A' CABLE, OR TERMINATOR BD (LAST DISC IN SYSTEM)

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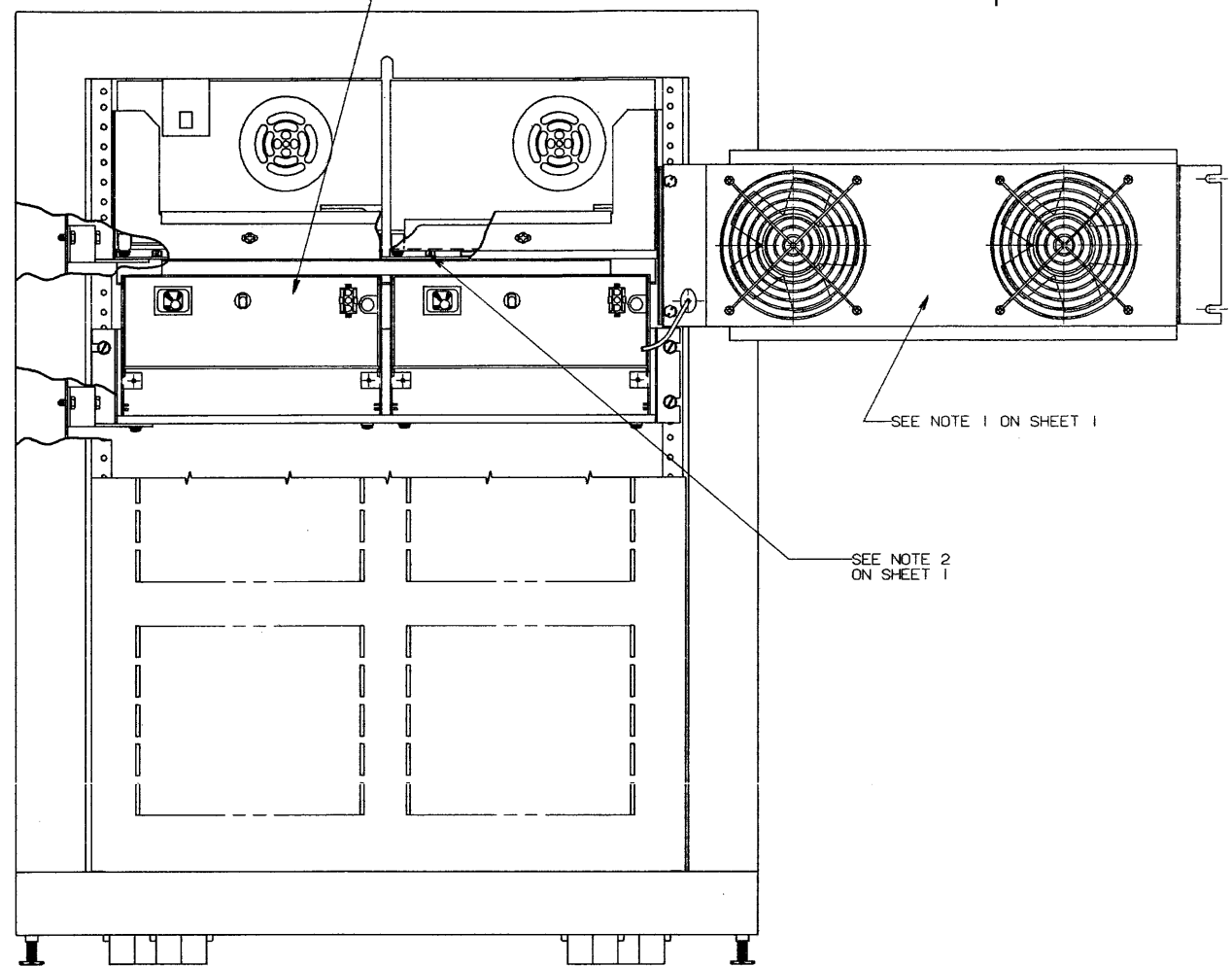
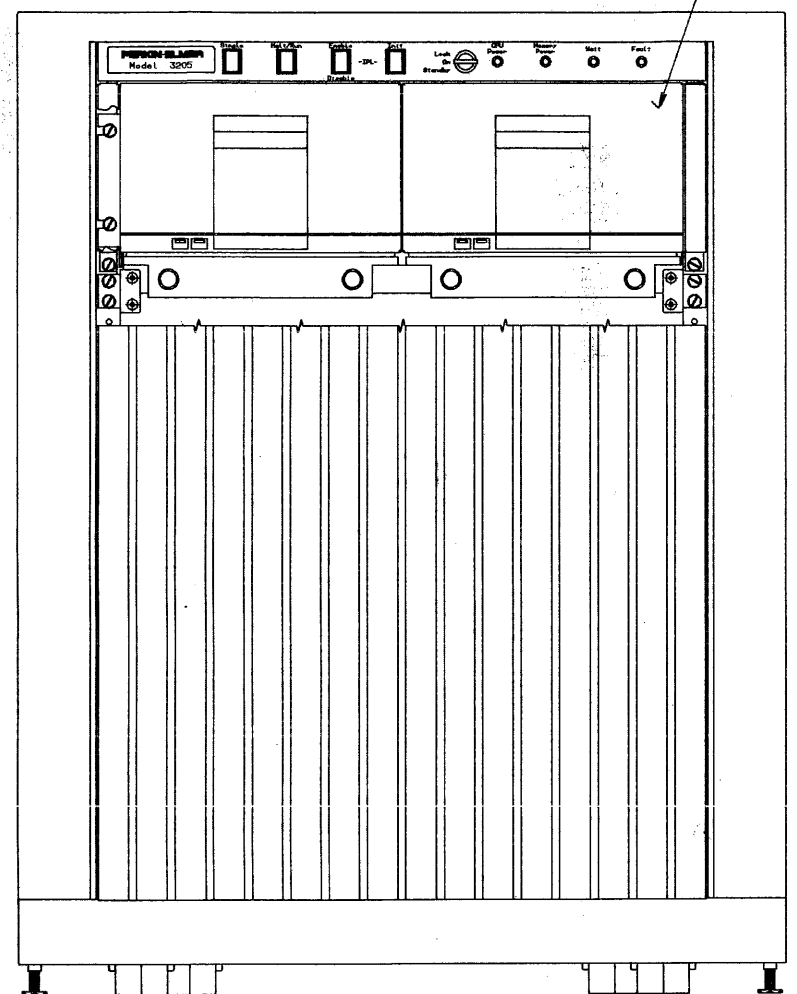
TITLE: INFORMATION DWG KIT, DISC MOUNTING	
DRAFTER D. STINE	TASK: 03294
DATE 7/1/83	DWG: 16-942 D12 5 - 6

A B C D E F G H J K L M N R S

REVISIONS

EXP DISC (REF)
 27-149F01 (DOMESTIC) 115VAC, 60HZ
 27-149F02 (INTERNATIONAL) 230VAC, 50HZ

DISC PWR SUPPLY EXP. (REF)



RECOMMENDED LOCATION OF
 DISC EXPANSION CABINET.

FRONT VIEW

REAR VIEW

EXPANSION DISC (DUAL DISC) INSTALLATION

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TITLE: INFORMATION DWG
 KIT, DISC. MOUNTING

NOTES:

DRAFTER	
D. STINE	
DATE	TASK: 03294
6-7-83	DWG: 16-942 D12 6 - 6

A B C D E F G H J K L M N R S