

MASTER DRAWING LIST

MAINTENANCE MANUALS		UNIT VARIATIONS													
		KMB-E													
NO.	TITLE														
KMB-E	MEM EXT & TIME SHARE CONTROL	x													

USED ON OPTIONS														
PDP8-E														
PDP 8/M														

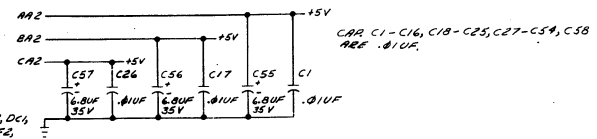
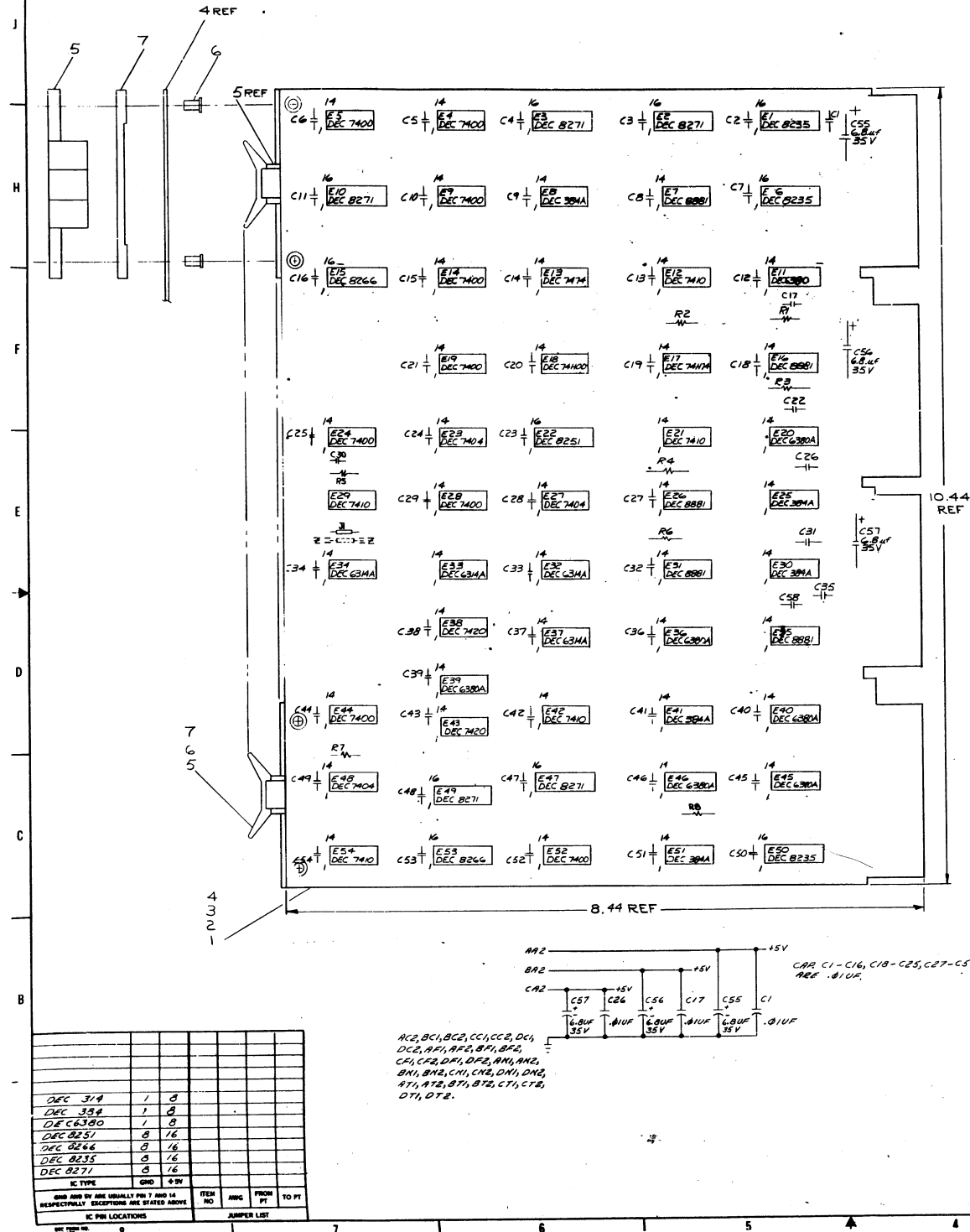
REVISIONS		APP'D.	<table border="1" style="font-size: small;"> <tr><td style="text-align: center;">R.M.</td></tr> <tr><td style="text-align: center;">R.M.</td></tr> <tr><td style="text-align: center;">A.V.</td></tr> <tr><td style="text-align: center;"><i>chgs</i></td></tr> <tr><td style="text-align: center;"><i>J.C.</i></td></tr> </table>				R.M.	R.M.	A.V.	<i>chgs</i>	<i>J.C.</i>	DRN.	DATE	digital EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small>			
		R.M.															
R.M.																	
A.V.																	
<i>chgs</i>																	
<i>J.C.</i>																	
CHG. NO.	DATE	CHK'D.	DATE	TITLE													
A	3/23/71	00001	KMBE-2	6/71	K. GULICK	19/71	MEM EXT & TIME SHARE CONTROL <table border="1" style="font-size: x-small;"> <tr><th>SIZE</th><th>CODE</th><th>NUMBER</th><th>REV.</th></tr> <tr><td style="text-align: center;">A</td><td style="text-align: center;">ML</td><td style="text-align: center;">KMB-E</td><td style="text-align: center;">E</td></tr> </table>			SIZE	CODE	NUMBER	REV.	A	ML	KMB-E	E
SIZE	CODE	NUMBER	REV.														
A	ML	KMB-E	E														
B	7/71	MISC-86	KMBE-3	7/71	K. GULICK	19/71											
C	7/71	BE-55			R. MADDEN	3/3/71											
D	1/72				R. VOGELSANG	3/3/71											
E					L. SAYLOR	3/3/71											
						FIRST USED ON											
						A-ML-PDP8/E-Ø											
						SCALE NONE											
						SHEET 1 OF 2		DIST.									

PRINT SET						REV. NO. OF LET. SHEETS	TITLE	OPTION NO.	
KMB-E									DWG. NO.
x						E-CS-M837-Ø-1	# 3	MEM EXT & TIME SHARE CONTROL	
-						A-PL-KMB-E-Ø	REF 1	MEM EXT & TIME SHARE CONTROL (PL)	
-						A-SP-7665140-0-0	3	KMBE ACCEPTANCE PROCEDURE	
-						A-SP-KMB-E-1	4	MEMORY EXTENSION TEST PROCEDURE	
-						A-SP-KMB-E-2	2	MEMORY EXTENSION SPECIFICATIONS	
-						LIBKIT-8E-KMBE	REF	PROGRAM LIBRARY KIT	

TITLE MEM EXT & TIME SHARE CONTROL						SHEET 2 OF 2	SIZE CODE A ML	NUMBER KMB-E	REV E
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REVISIONS TO THIS DRAWING SHALL BE MADE BY THE DRAWING ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.

NOTES:
UNLESS OTHERWISE NOTED:
CAPACITORS ARE .01 μ F 100V 20%
RESISTORS ARE 1K 1/4W 5%



KC2, BC1, BC2, CC1, CC2, DC1, DC2, AF1, AF2, BF1, BF2, CF1, CF2, DF1, DF2, AH1, AH2, BH1, BH2, CH1, CH2, DH1, DH2, DT1, DT2, BT1, BT2, CT1, CT2, DT1, DT2.

IC TYPE	QTY	REV	FROM PT	TO PT
DEC 314	1	B		
DEC 384	1	B		
DEC 6380	1	B		
DEC 8251	8	16		
DEC 8266	8	16		
DEC 8235	8	16		
DEC 8271	8	16		

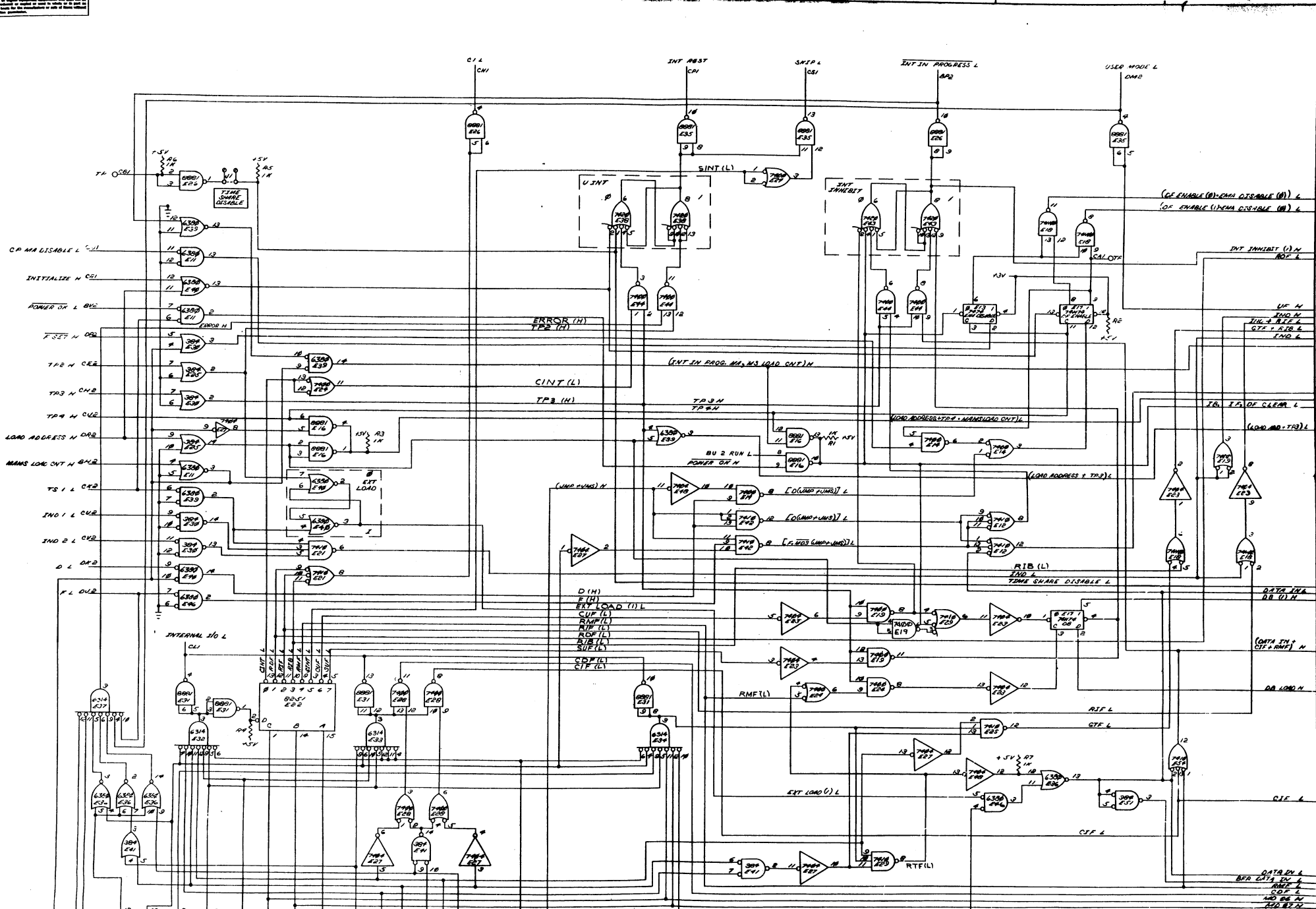
QTY AND REV ARE USUALLY FOR 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.

IC PIN LOCATIONS	JUMPER LIST

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	REV
7	E1, E20, E36, E39, E40, E45, E46	IC DEC 6380	909971	25
8	E1, E20	RESISTOR 1K 1/4W 5%	300363	28
83	C1-C54, C58	CAPACITOR .01MFD DISC	1001670	23
3	C55, C56, C57	CAPACITOR 6.8UF 35V 10%	1005306	22
9	E2, E3, E4, E5, E19, E20, E21, E22	IC DEC 7400	1905575	21
5	E17, E18, E19, E20, E21, E22	IC DEC 8081	1909705	20
5	E23, E24, E25, E26, E27	IC DEC 8231	1909675	19
3	E1, E2, E3	IC DEC 8235	1909935	18
2	E15, E16	IC DEC 8266	1909934	17
1	E17	IC DEC 8251	1909574	16
1	E18	IC DEC 74174	1909667	15
1	E19	IC DEC 7414	1905549	14
2	E39, E40	IC DEC 7400	1905571	13
2	E41, E42, E43, E44, E45	IC DEC 7410	1905576	12
3	E23, E24, E25	IC DEC 7404	1909606	11
1	E18	IC DEC 7400	1909056	10
5	E15, E16, E17, E18	IC DEC 3084	1909436	9
4	E23, E24, E25	IC DEC 6314	1909922	8
4		SPACER (CABLE CLAMP)	1202704	7
6		EYELET G54-11 STIMPSON	9006750	6
4		HANDLE FLIP CHIP MOUNTING	1000337-06	5
1		RICHED CIRCUIT BOARD	8003255	4
REF		MODULE HISTORY LIST	BMM-837-2-3	3
REF		ASSY/DRILLING HOLE LAYOUT	DAM-837-2-3	2
REF		XY COORDINATE HOLE LOC.	K-CO-837-2-4	1

ETCH BOARD REV	PANEL LIST	EQUIPMENT CORPORATION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

A-MIL-KM8-E
SCALE 2:1
ECSM837-0-1
REV D



MNEMONIC	OCTAL
CINT	G204
RIF	G214
RIF	G224
RIF	G234
RIF	G244
RIF	G254
RIF	G264
RIF	G274
RIF	G284
RIF	G294
RIF	G304
RIF	G314
RIF	G324
RIF	G334
RIF	G344
RIF	G354
RIF	G364
RIF	G374
RIF	G384
RIF	G394
RIF	G404
RIF	G414
RIF	G424
RIF	G434
RIF	G444
RIF	G454
RIF	G464
RIF	G474
RIF	G484
RIF	G494
RIF	G504
RIF	G514
RIF	G524
RIF	G534
RIF	G544
RIF	G554
RIF	G564
RIF	G574
RIF	G584
RIF	G594
RIF	G604
RIF	G614
RIF	G624
RIF	G634
RIF	G644
RIF	G654
RIF	G664
RIF	G674
RIF	G684
RIF	G694
RIF	G704
RIF	G714
RIF	G724
RIF	G734
RIF	G744
RIF	G754
RIF	G764
RIF	G774
RIF	G784
RIF	G794
RIF	G804
RIF	G814
RIF	G824
RIF	G834
RIF	G844
RIF	G854
RIF	G864
RIF	G874
RIF	G884
RIF	G894
RIF	G904
RIF	G914
RIF	G924
RIF	G934
RIF	G944
RIF	G954
RIF	G964
RIF	G974
RIF	G984
RIF	G994

MNEMONIC	OCTAL
GTF	G004
GTF	G005

UNLESS OTHERWISE SPECIFIED

RESISTORS IN OHMS

CAPACITORS IN P.F.

WIRE GAUGE

WIRE SIZE

WIRE COLOR

WIRE LENGTH

WIRE TYPE

WIRE WEIGHT

WIRE AREA

WIRE PERIMETER

WIRE VOLUME

WIRE MASS

WIRE INDUCTANCE

WIRE CAPACITANCE

WIRE RESISTANCE

WIRE CONDUCTANCE

WIRE PERMEABILITY

WIRE PERMITTIVITY

WIRE DENSITY

WIRE TENSILE STRENGTH

WIRE ELONGATION

WIRE HARDNESS

WIRE TEMPERATURE COEFFICIENT

WIRE THERMAL EXPANSION

WIRE THERMAL SHRINKAGE

WIRE THERMAL STABILITY

WIRE THERMAL CYCLING

WIRE THERMAL SENSITIVITY

WIRE THERMAL LAG

WIRE THERMAL INERTIA

WIRE THERMAL CAPACITY

WIRE THERMAL CONDUCTIVITY

WIRE THERMAL RESISTANCE

WIRE THERMAL ISOLATION

WIRE THERMAL PROTECTION

WIRE THERMAL MONITORING

WIRE THERMAL CONTROL

WIRE THERMAL REGULATION

WIRE THERMAL STABILIZATION

WIRE THERMAL COMPENSATION

WIRE THERMAL ADJUSTMENT

WIRE THERMAL OPTIMIZATION

WIRE THERMAL ENHANCEMENT

WIRE THERMAL IMPROVEMENT

WIRE THERMAL MAINTENANCE

WIRE THERMAL REPAIR

WIRE THERMAL REPLACEMENT

WIRE THERMAL REMOVAL

WIRE THERMAL DISPOSAL

WIRE THERMAL RECYCLING

WIRE THERMAL REUSE

WIRE THERMAL REPAIR

WIRE THERMAL REPLACEMENT

WIRE THERMAL REMOVAL

WIRE THERMAL DISPOSAL

WIRE THERMAL RECYCLING

WIRE THERMAL REUSE

DATE

REV

BY

CHECKED

APPROVED

DESIGNED

DRAWN

TESTED

INSPECTED

MANUFACTURED

ASSEMBLED

SHIPPED

RECEIVED

QUANTITY

UNIT PRICE

TOTAL PRICE

TAXES

TERMS

SHIPPING

PACKAGING

WARRANTY

SALES

SUPPORT

TRAINING

DOCUMENTATION

LOGISTICS

COMPLIANCE

REGULATIONS

STANDARDS

CONTRACTS

AGREEMENTS

ORDERS

INVOICES

STATEMENTS

REPORTS

ANALYSES

TESTS

MEASUREMENTS

CALIBRATIONS

MAINTENANCE

REPAIRS

REPLACEMENTS

REMOVALS

DISPOSALS

RECYCLING

REUSE

DESCRIPTION

PART NO.

QTY

UNIT

PRICE

TOTAL

TAXES

TERMS

SHIPPING

PACKAGING

WARRANTY

SALES

SUPPORT

TRAINING

DOCUMENTATION

LOGISTICS

COMPLIANCE

REGULATIONS

STANDARDS

CONTRACTS

AGREEMENTS

ORDERS

INVOICES

STATEMENTS

REPORTS

ANALYSES

TESTS

MEASUREMENTS

CALIBRATIONS

MAINTENANCE

REPAIRS

REPLACEMENTS

REMOVALS

DISPOSALS

RECYCLING

REUSE

MEM. EXT.

TIME SHARE CONT.

DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]

10-1-1
 MEM. EXT. TIME SHARE CONT.

MASTER DRAWING LIST

MAINTENANCE MANUALS		UNIT VARIATIONS																		
NO.	TITLE	KMB-E																		
KMB-E	MEM EXT & TIME SHARE CONTROL	X																		

USED ON OPTIONS							
PDP8-E							
PDP 8/M							

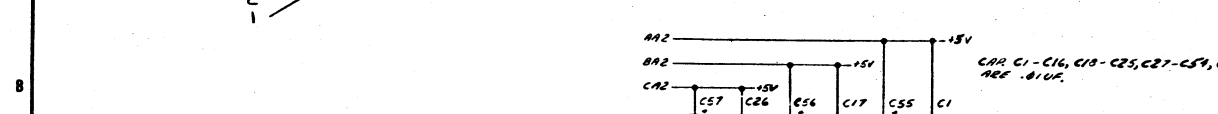
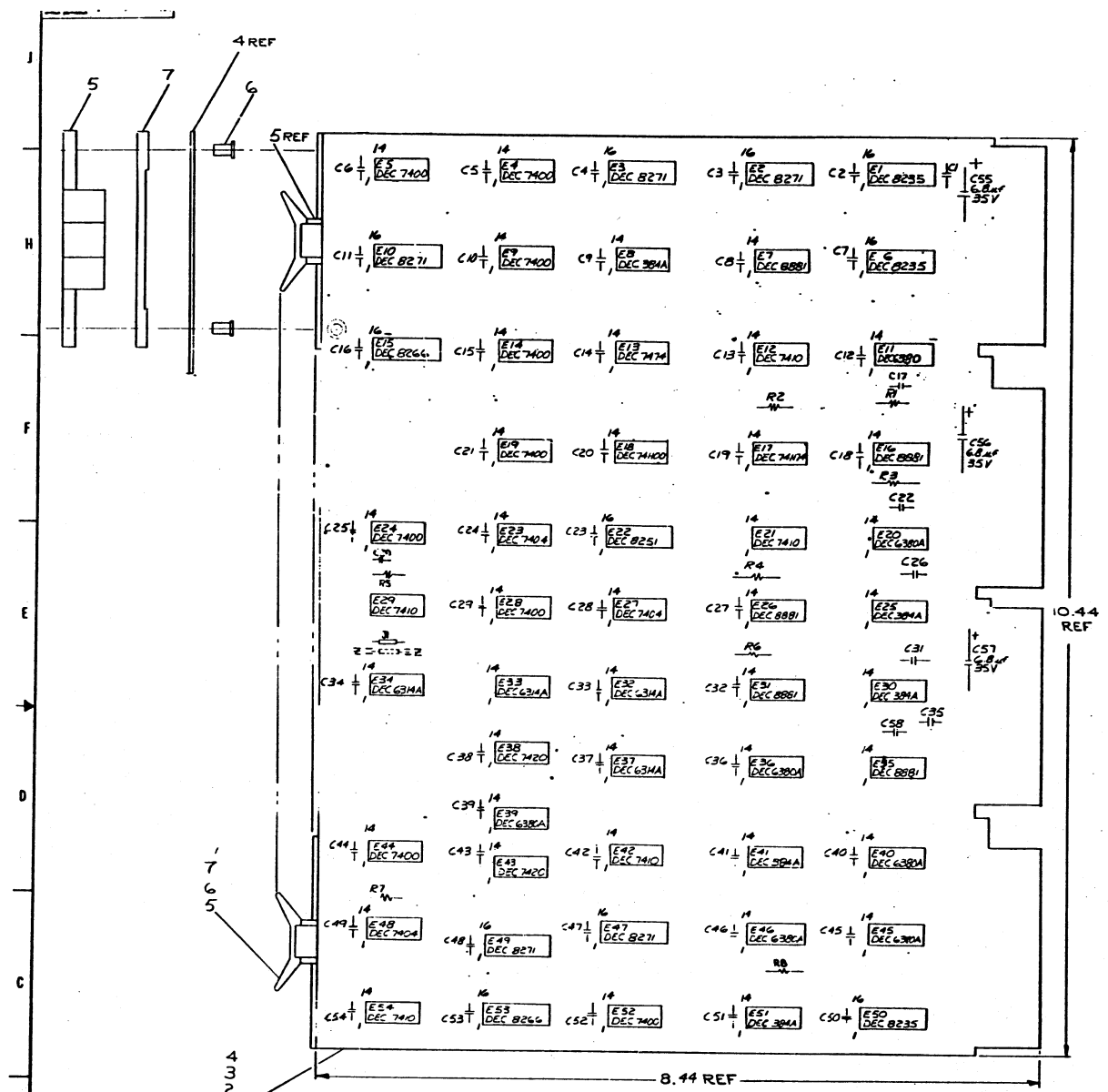
REVISIONS	APP'D.	R.M.	DRN. K. GULICK		DATE 1/19/71				
	CHG. NO.	R.M.	CHK'D. K. GULICK		DATE 1/19/71				
	DATE	A.V.	ENG. R MADDEN		DATE 3/3/71				
	REV.	A.V.	PROJ. ENG. R. VOGELSANG		DATE 3/3/71				
				PROD. L. SAYLOR		DATE 3/3/71	TITLE		
3/23/71 00001 6/71 KMBE-2 7/71 MISC-86 7/71 KMBE-3 1/72 8E-55			FIRST USED ON		MEM EXT & TIME SHARE CONTROL				
A 3/23/71 00001 B 6/71 KMBE-2 C 7/71 MISC-86 D 7/71 KMBE-3 E 1/72 8E-55			A-M-L-PDP8/E-0		SIZE	CODE	NUMBER		REV.
			SCALE NONE		A	ML	KMB-E		E
			SHEET 1 OF 2		DIST.				

DRA 131

PRINT SET				REV. LET.	NO. OF SHEETS	TITLE	OPTION NO.		
KMB-E									
X				#	3	MEM EXT & TIME SHARE CONTROL			
-				REF	1	MEM EXT & TIME SHARE CONTROL (PL)			
-					3	KMBE ACCEPTANCE PROCEDURE			
-					4	MEMORY EXTENSION TEST PROCEDURE			
-					2	MEMORY EXTENSION SPECIFICATIONS			
-				REF		PROGRAM LIBRARY KIT			
TITLE						SIZE	CODE	NUMBER	REV.
MEM EXT & TIME SHARE CONTROL					2 of 2	A	ML	KMB-E	E

DRA 132

NOTES:
 1 UNLESS OTHERWISE NOTED:
 CAPACITORS ARE .01UF 100V 20%
 RESISTORS ARE 1K 1/4W 5%



IC TYPE	QTY	QTY	QTY
DEC 314	1	8	
DEC 388	1	8	
DEC 6380	1	8	
DEC 6251	8	16	
DEC 2266	8	16	
DEC 8235	8	16	
DEC 8271	8	16	

AC2, BC1, BC2, CC1, CC2, DC1,
 DC2, AF1, AF2, BF1, BF2,
 CF1, CF2, DF1, DF2, AN1, AN2,
 BN1, BN2, CN1, CN2, DN1, DN2,
 AT1, AT2, BT1, BT2, CT1, CT2,
 DT1, DT2.

QTY	REF DESIGNATION	DESCRIPTION	PART NO	QTY
7	E11, E20, E36, E38, E40, E45, E46	IC DEC 6380	1909971	25
8	E7, E8	255 STAR IR 1/4W 35V	1300745	24
85	C1-C8, C28	CAPACITOR 0.1UF 35V 20%	1001682	24
3	C25, C26, C27	CAPACITOR 0.01UF 35V 10%	1005306	24
9	E1, E4, E9, E14, E19, E24, E25, E26, E27, E28, E29, E30, E31, E32, E33, E34, E35, E37, E38, E39, E41, E42, E43, E44, E47, E48, E49, E50, E51, E52, E53, E54, E55, E56, E57, E58, E59, E60, E61, E62, E63, E64, E65, E66, E67, E68, E69, E70, E71, E72, E73, E74, E75, E76, E77, E78, E79, E80, E81, E82, E83, E84, E85, E86, E87, E88, E89, E90, E91, E92, E93, E94, E95, E96, E97, E98, E99, E100	IC DEC 7400	1905575	21
5	E10, E11, E12, E13, E15, E16, E17, E18, E20, E21, E22, E23, E24, E25, E26, E27, E28, E29, E30, E31, E32, E33, E34, E35, E36, E37, E38, E39, E40, E41, E42, E43, E44, E45, E46, E47, E48, E49, E50, E51, E52, E53, E54, E55, E56, E57, E58, E59, E60, E61, E62, E63, E64, E65, E66, E67, E68, E69, E70, E71, E72, E73, E74, E75, E76, E77, E78, E79, E80, E81, E82, E83, E84, E85, E86, E87, E88, E89, E90, E91, E92, E93, E94, E95, E96, E97, E98, E99, E100	IC DEC 8235	1909935	10
3	E1, E2, E3	IC DEC 8235	1909935	10
1	E4	IC DEC 8235	1909935	10
1	E7	IC DEC 7410	1906607	15
1	E13	IC DEC 7474	1905547	14
2	E38, E43	IC DEC 7400	1905575	14
4	E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20, E21, E22, E23, E24, E25, E26, E27, E28, E29, E30, E31, E32, E33, E34, E35, E36, E37, E38, E39, E40, E41, E42, E43, E44, E45, E46, E47, E48, E49, E50, E51, E52, E53, E54, E55, E56, E57, E58, E59, E60, E61, E62, E63, E64, E65, E66, E67, E68, E69, E70, E71, E72, E73, E74, E75, E76, E77, E78, E79, E80, E81, E82, E83, E84, E85, E86, E87, E88, E89, E90, E91, E92, E93, E94, E95, E96, E97, E98, E99, E100	IC DEC 7410	1905574	14
3	E23, E27, E44	IC DEC 7400	1905575	11
1	E10	IC DEC 7400	1905575	10
5	E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20, E21, E22, E23, E24, E25, E26, E27, E28, E29, E30, E31, E32, E33, E34, E35, E36, E37, E38, E39, E40, E41, E42, E43, E44, E45, E46, E47, E48, E49, E50, E51, E52, E53, E54, E55, E56, E57, E58, E59, E60, E61, E62, E63, E64, E65, E66, E67, E68, E69, E70, E71, E72, E73, E74, E75, E76, E77, E78, E79, E80, E81, E82, E83, E84, E85, E86, E87, E88, E89, E90, E91, E92, E93, E94, E95, E96, E97, E98, E99, E100	IC DEC 304A	1909726	8
4	E32, E37, E38	IC DEC 6380	1909722	8
4		SPACER/CABLE CLAMP	102704	8
8		SOLET 254-11 STIMPSUM	9004750	4
4		HANDLE FLIP CHIP ARGENTIN	9008357-06	4
1		ETCHED CIRCUIT BOARD	SC09255	4
REF		MODULE HISTORY LIST	2MM48344	3
REF		ASSY/DRILLING HOLE LAYOUT	2MM4837-03	2
REF		XY COORDINATE HOLE LOC	2MM4837-04	1

ETCH BOARD REV: C

MEM EXT & TIME SHARE CONTROL

DEC NO: E1A NO: DEC NO: E1A NO: A ML-KMB-E

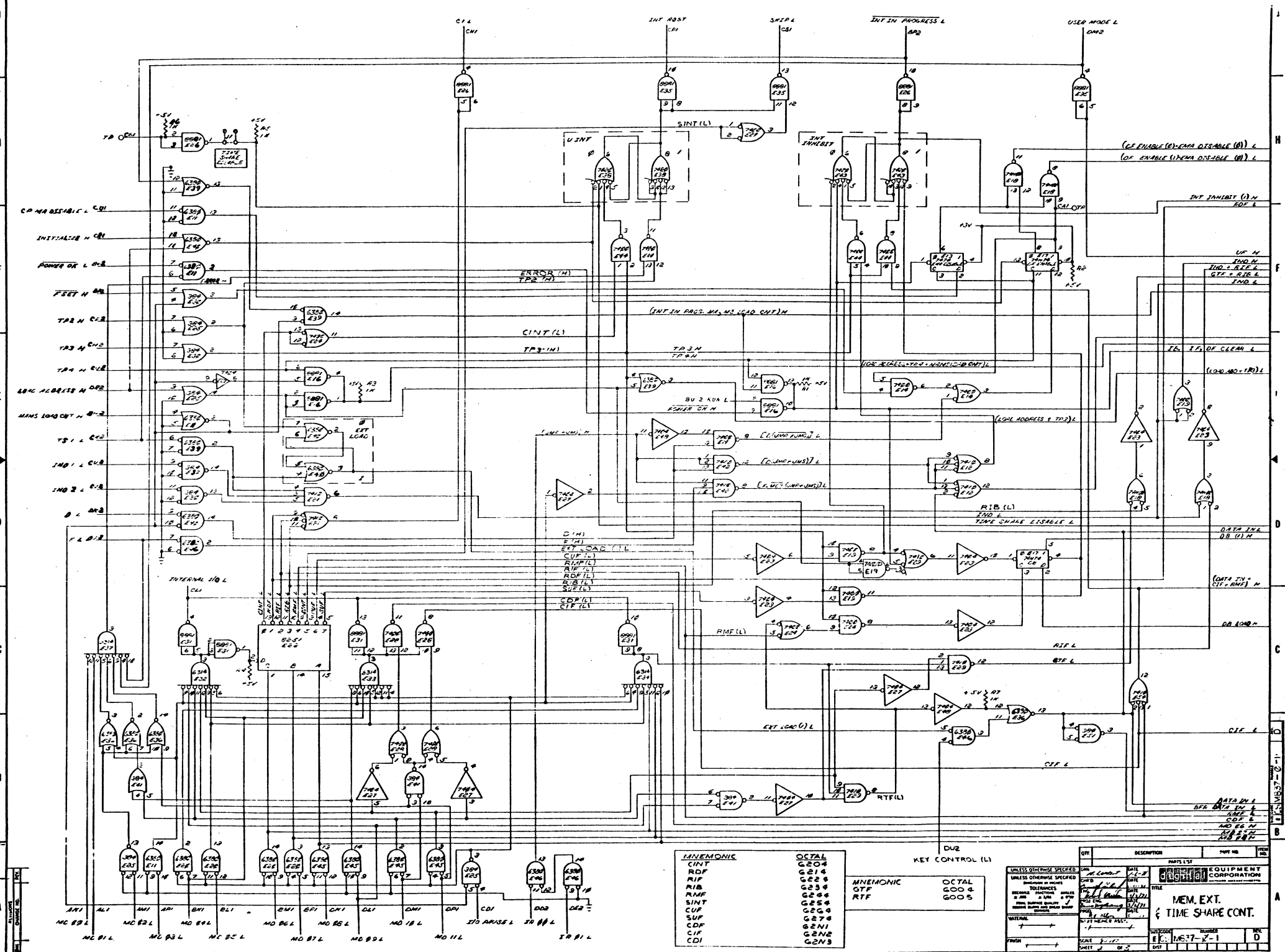
SEMICONDUCTOR COMPENSATION CHART

DATE: 2-71

REV: 1-0-3

REV: 1-0-3

For timing and distribution, refer to the appropriate timing diagram. This circuit is designed to operate from a 5V supply. The power supply is connected to the +5V pin of the ICs. The ground is connected to the GND pin of the ICs.



MNEMONIC	OCTAL
CINT	G204
RDF	G214
RIF	G224
RMB	G234
RMF	G244
SINT	G254
CUF	G264
SUP	G274
CDF	G284
CIP	G294
CDI	G304

MNEMONIC	OCTAL
GTF	G004
RTF	G005

KEY CONTROL (L)

QTY.	DESCRIPTION	PART NO.	REV.
	UNLESS OTHERWISE SPECIFIED		
	TOLERANCES		
	RESISTORS		
	CAPACITORS		
	WELDED		
	FINISH		

MEM. EXT. TIME SHARE CONT.

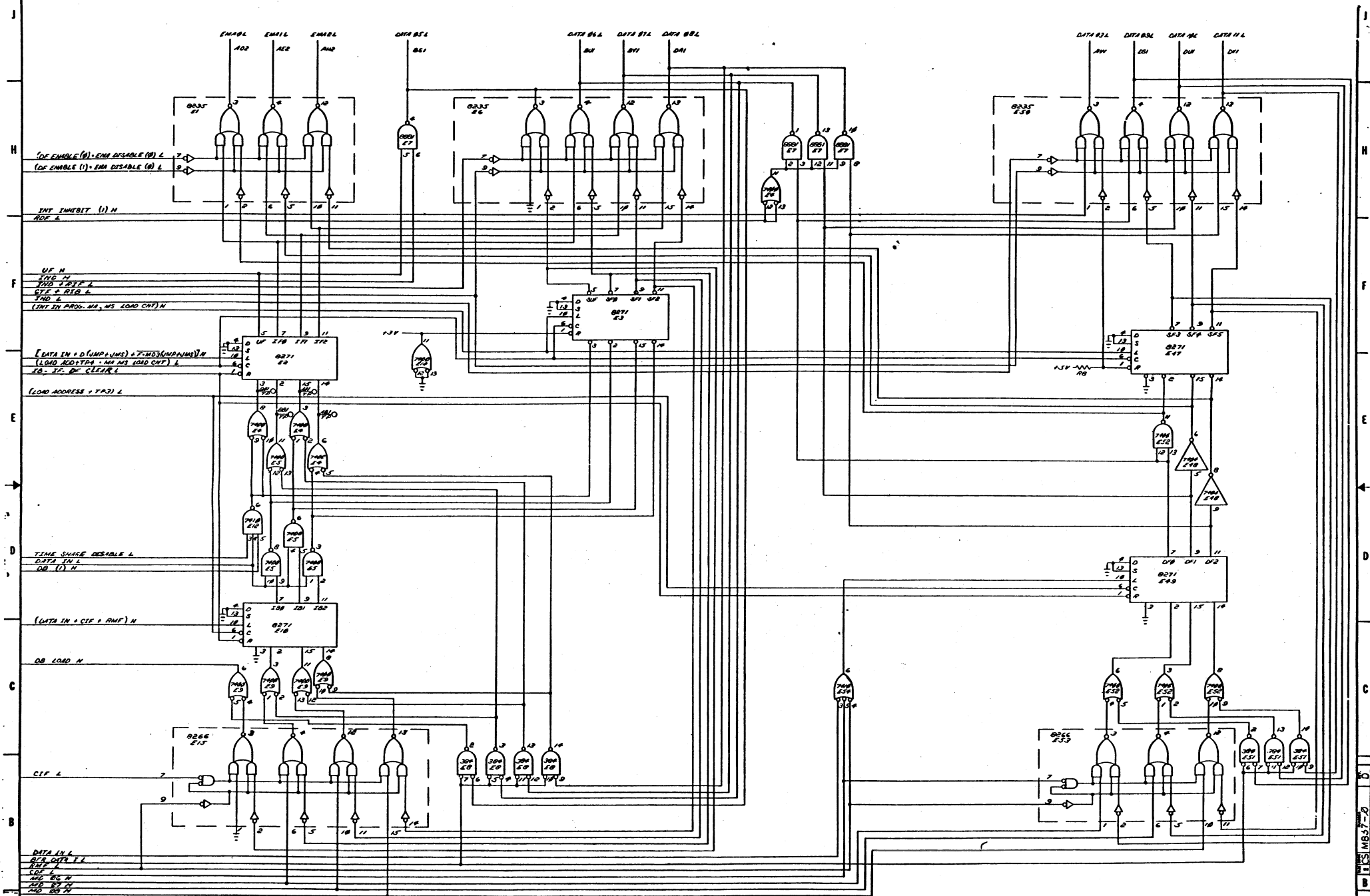
SCALE 1:1

DATE: 11-27-61

DESIGNER: [Signature]

CHECKED: [Signature]

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED
 DIMENSIONS IN PARENTHESES ARE DIMENSIONS OF MATERIALS
 DIMENSIONS OF MATERIALS ARE IN PARENTHESES UNLESS OTHERWISE SPECIFIED
 DIMENSIONS OF MATERIALS ARE IN PARENTHESES UNLESS OTHERWISE SPECIFIED



QTY.	DESCRIPTION	PART NO.	REV.
1	MEM. EXT. & TIME SHARE CONT.		
EQUIPMENT CORPORATION MEM. EXT. & TIME SHARE CONT.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN PARENTHESES ARE DIMENSIONS OF MATERIALS		PART NO. MB37-0 REV. 0	
SCALE	NONE	DATE	10/11/70
DESIGNED BY	ECS	CHECKED BY	...
DRAWN BY	...	APPROVED BY	...
DATE	10/11/70	PROJECT	MEM. EXT. & TIME SHARE CONT.
CHECKED BY	...	DATE	10/11/70
REVISED BY	...	DATE	...
REVISED BY	...	DATE	...