

3301



3301

3301 REALCOM PROCESSOR LOGIC

CHALMERS

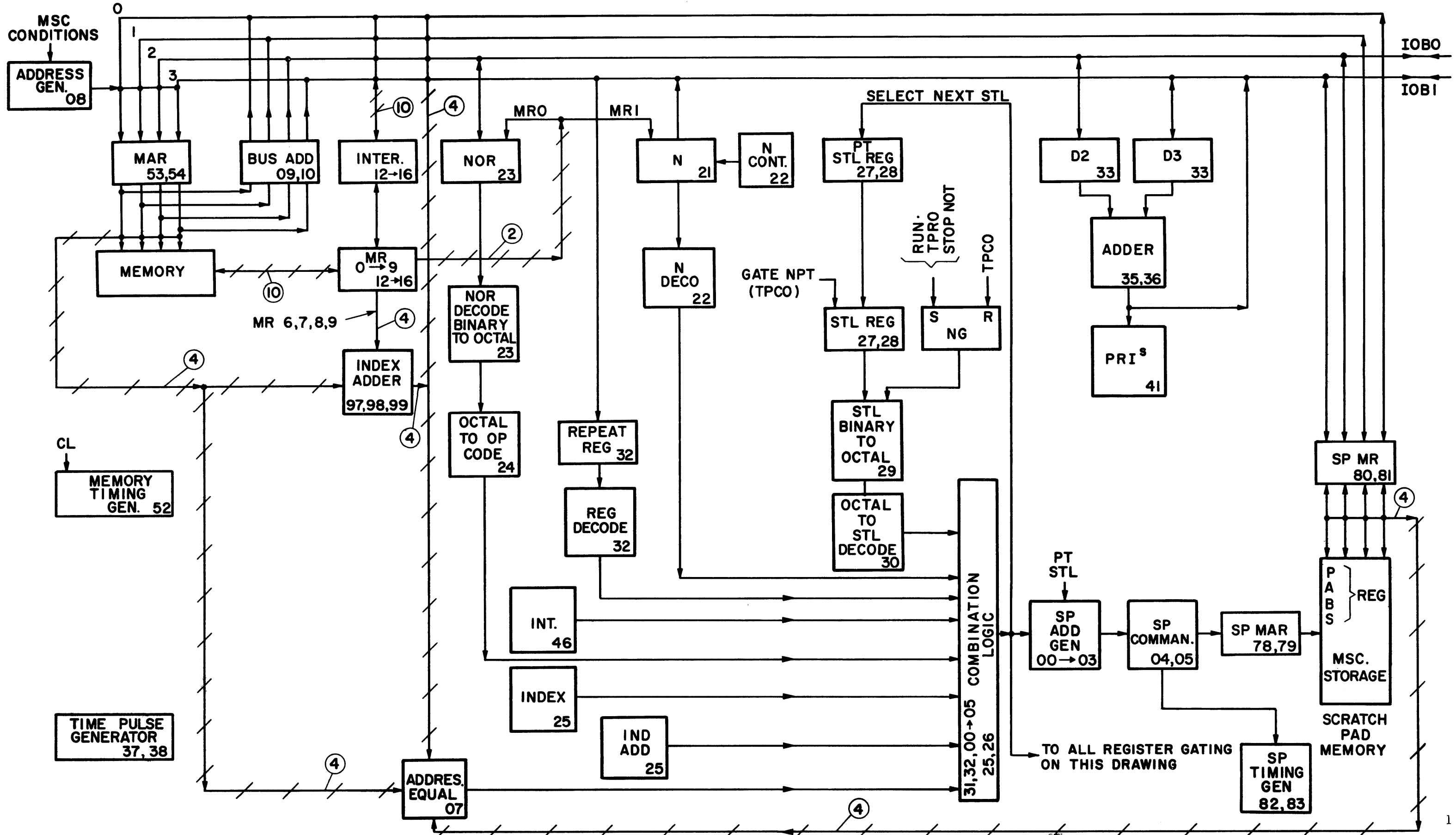
MARCH, 1966

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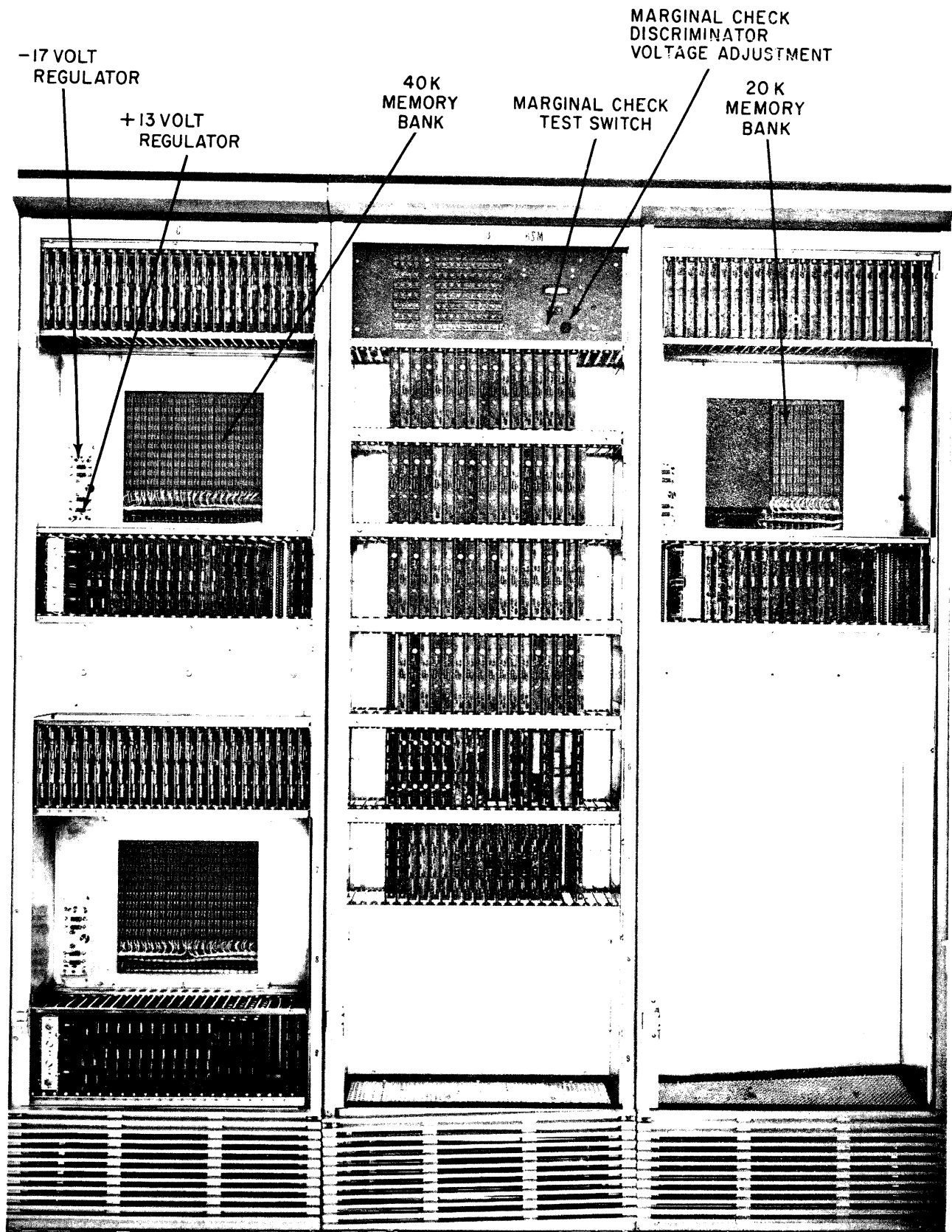
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3301 TRAINING BLOCK DIAGRAM



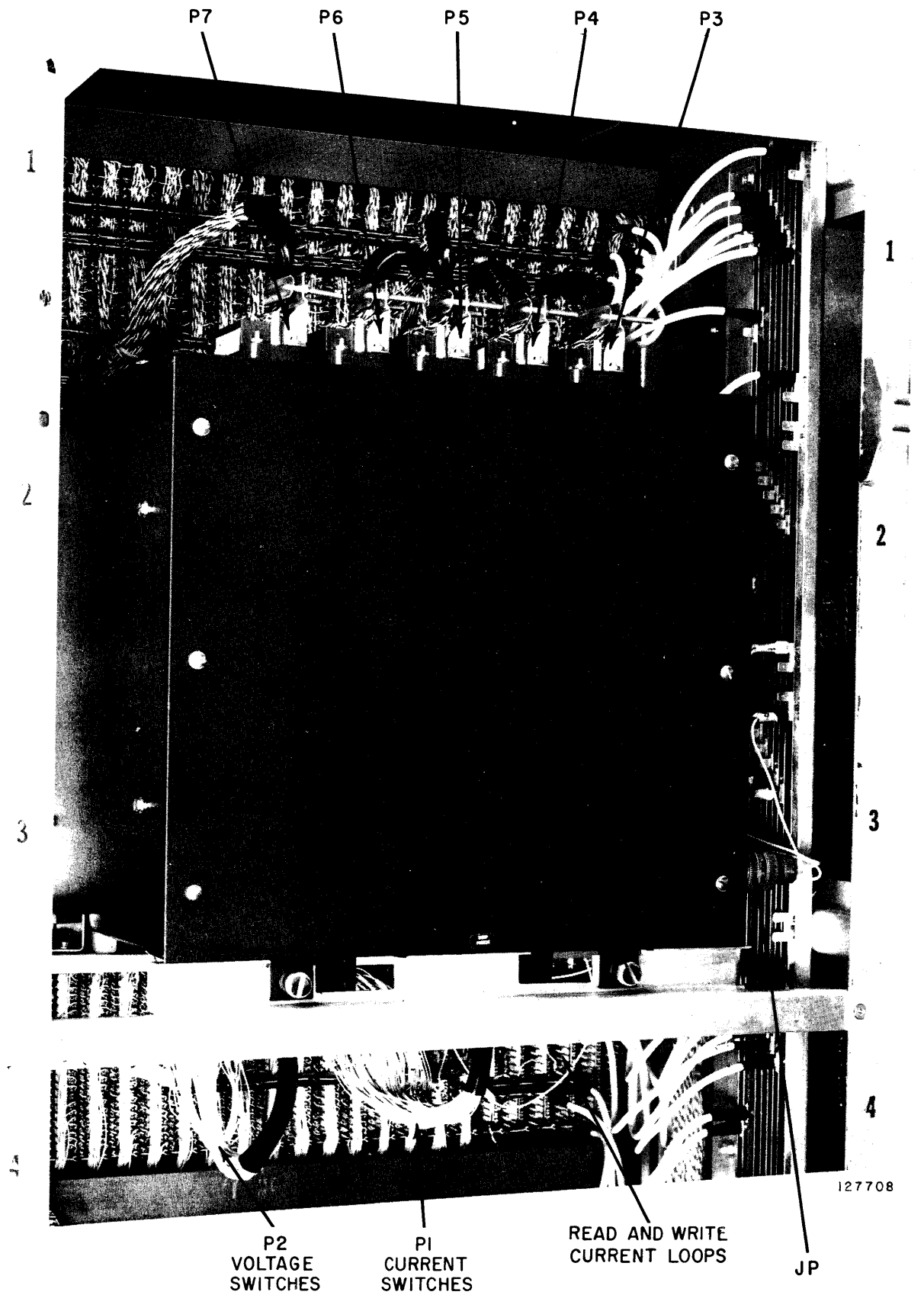
HIGH SPEED MEMORY

HIGH SPEED MEMORY



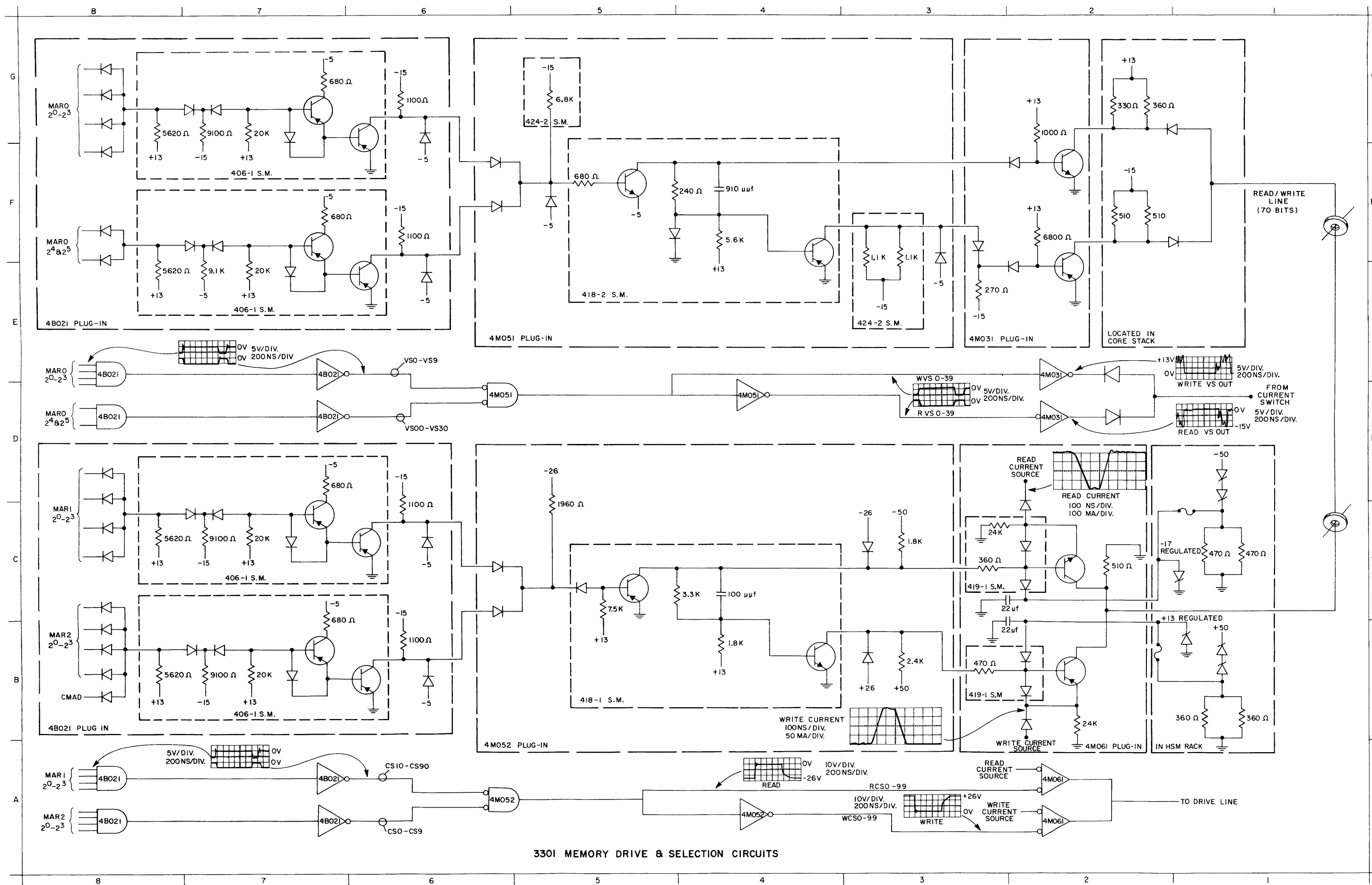
HSM Rack Plug-In View

127986



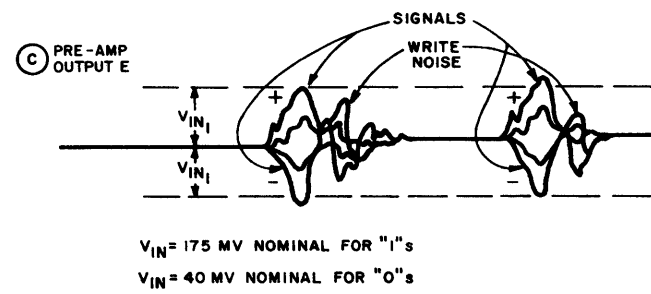
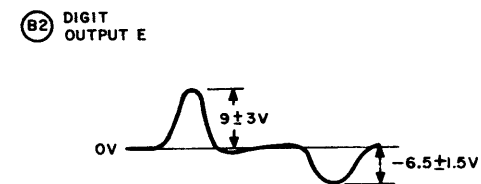
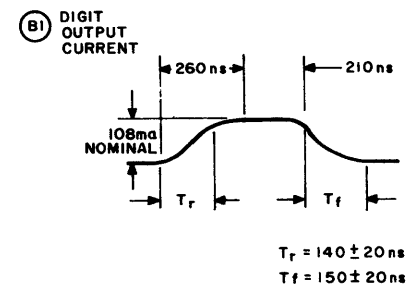
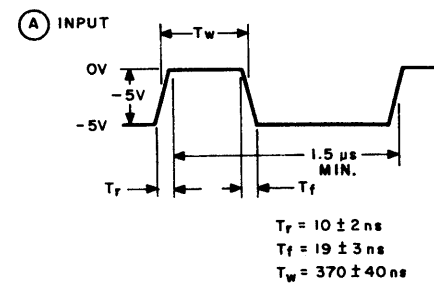
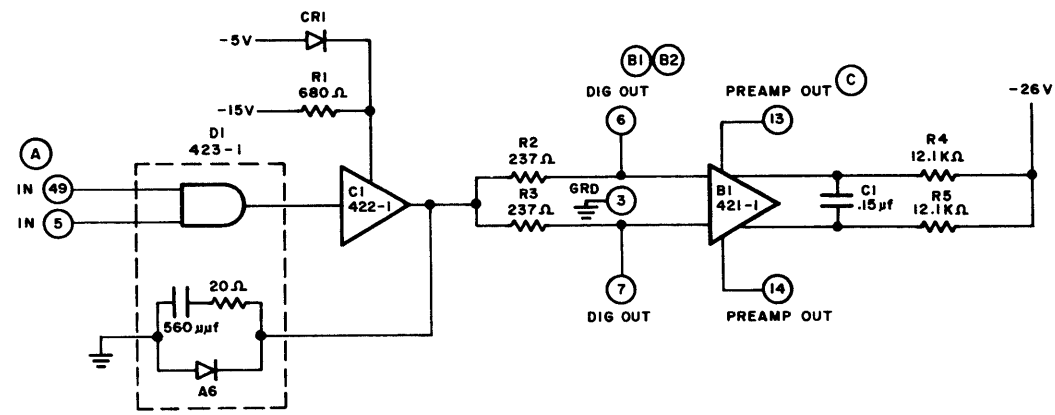
Memory Cable Connections

127708



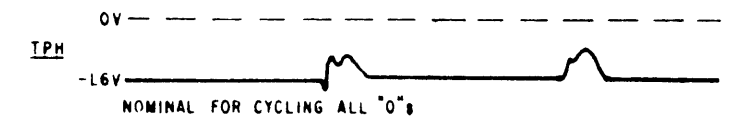
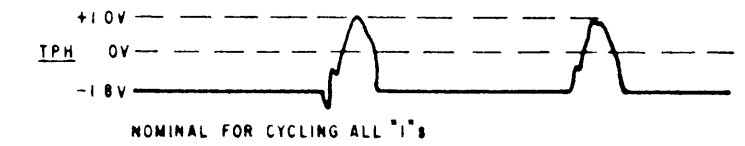
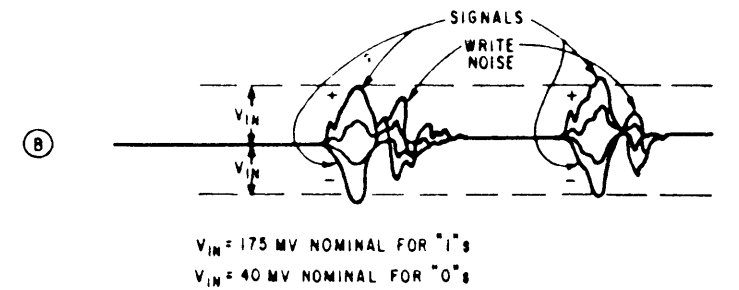
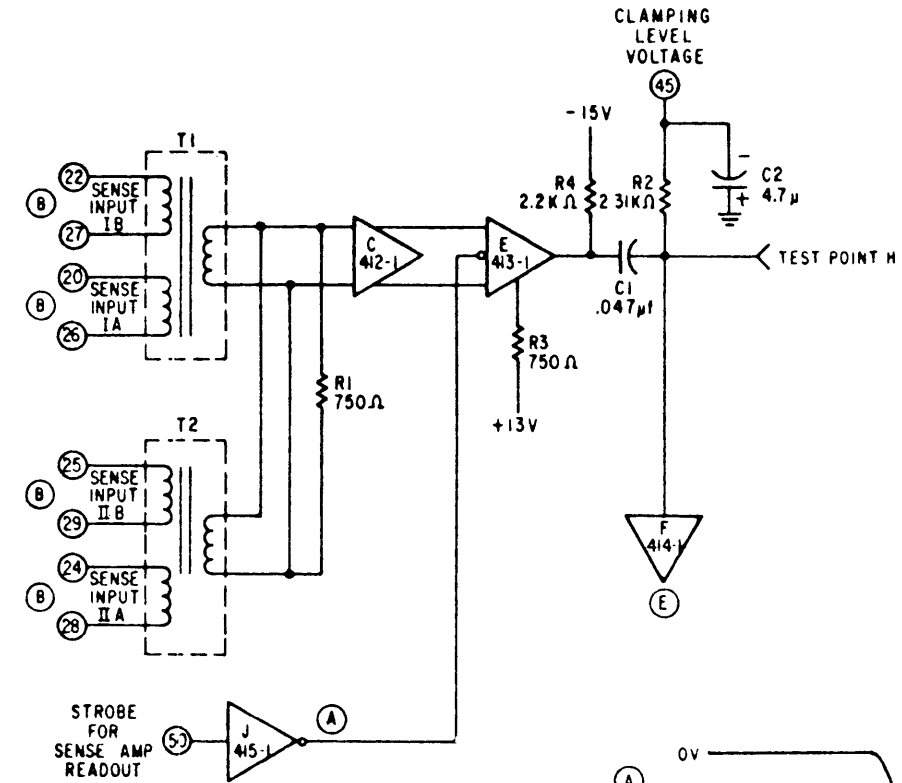
3301 MEMORY DRIVE & SELECTION CIRCUITS

HIGH SPEED MEMORY



Sense Pre-Amp and Digit Waveforms

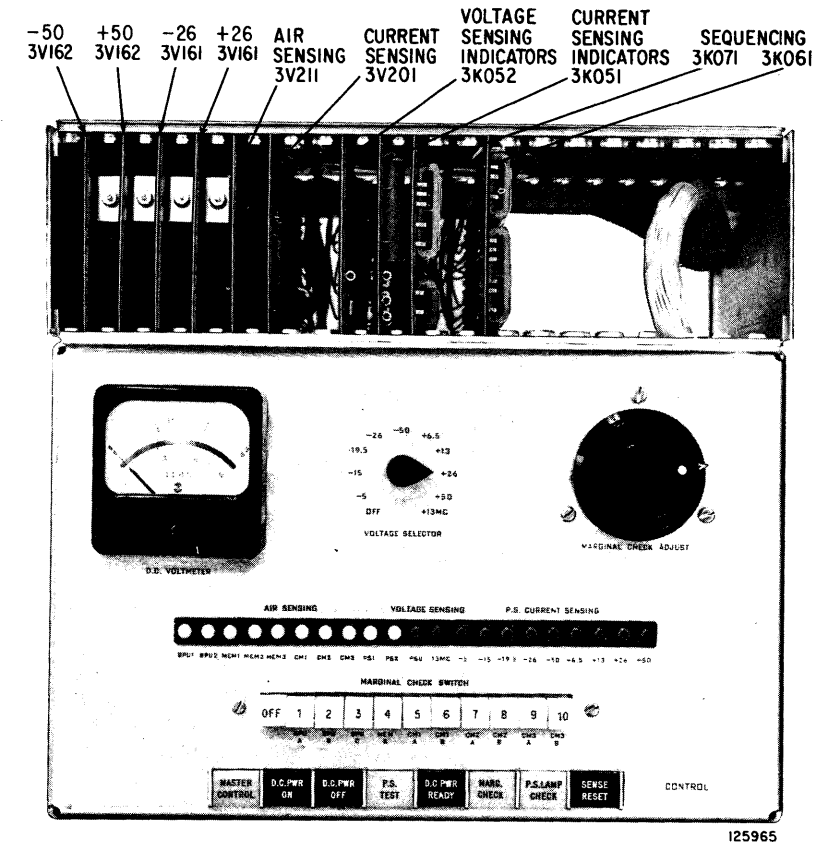
HIGH SPEED MEMORY



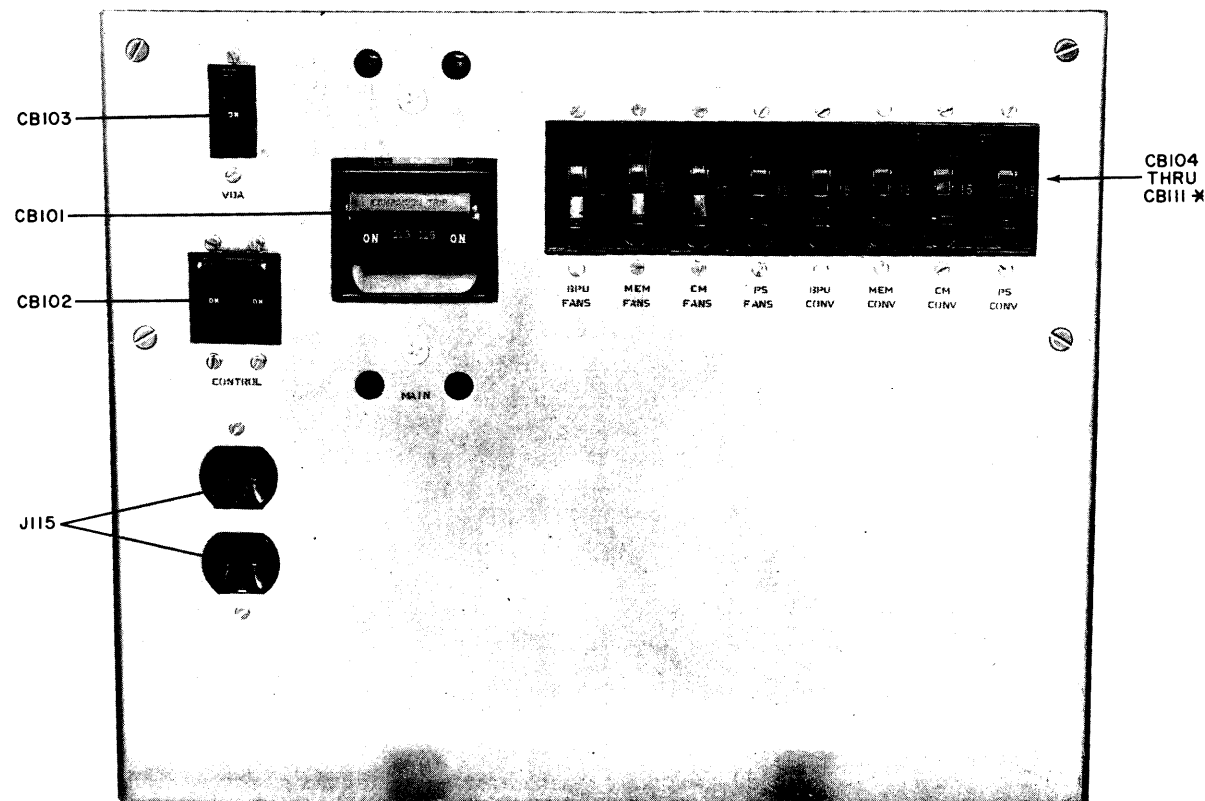
Sense Amplifier and Strobe Waveforms

Table 1-1. 3301 Power Supply Code

MODULE	CODE NUMBER
AC Line Regulator	LR
Capacitor Trays	CT
Inter Rack	1-9
+6.5V Power Supply	11-19
+13V Power Supply	21-29
+26V Power Supply	31-39
+50V Power Supply	41-49
-5V Power Supply	51-59
-15V Power Supply	61-69
-19.5V Power Supply	71-79
-26V Power Supply	81-89
-50V Power Supply	91-99
AC Distribution	101-199
+24V & 18V Control Supply	201-299
Control Assembly	301-399
PS Adjust Assembly	401-499
Load Panel Assembly	501-599
Marginal Check Assembly	601-699
301 Interface Assembly	701-799
DC Distribution Assembly	801-899



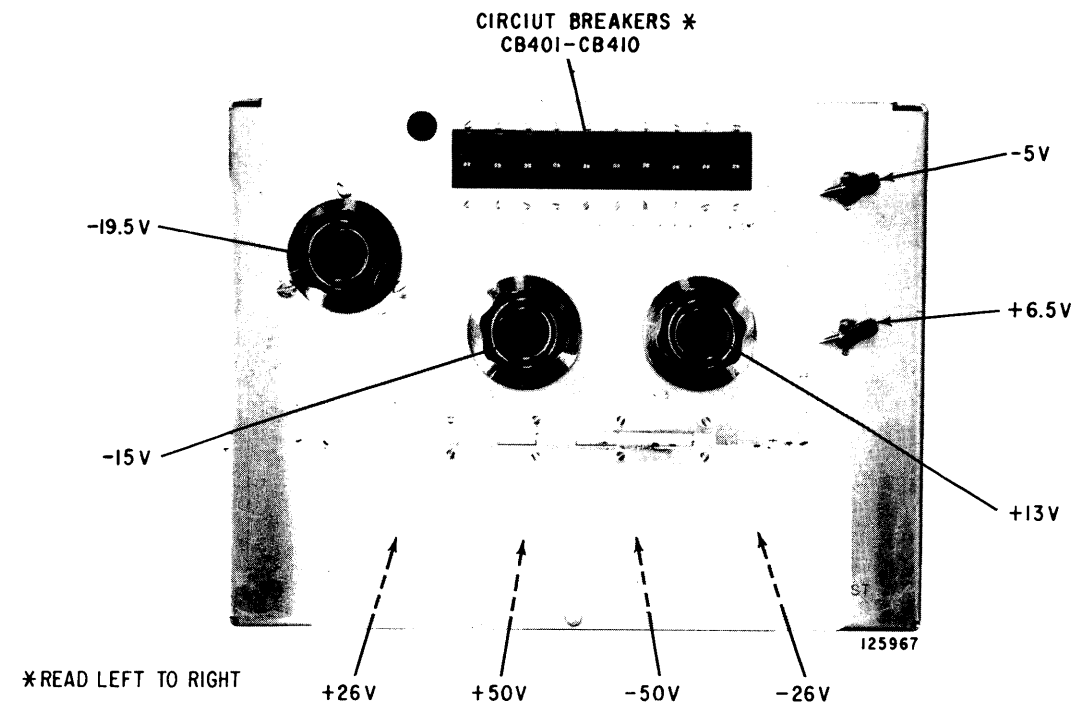
Power Supply Control Panel



* READ LEFT TO RIGHT.

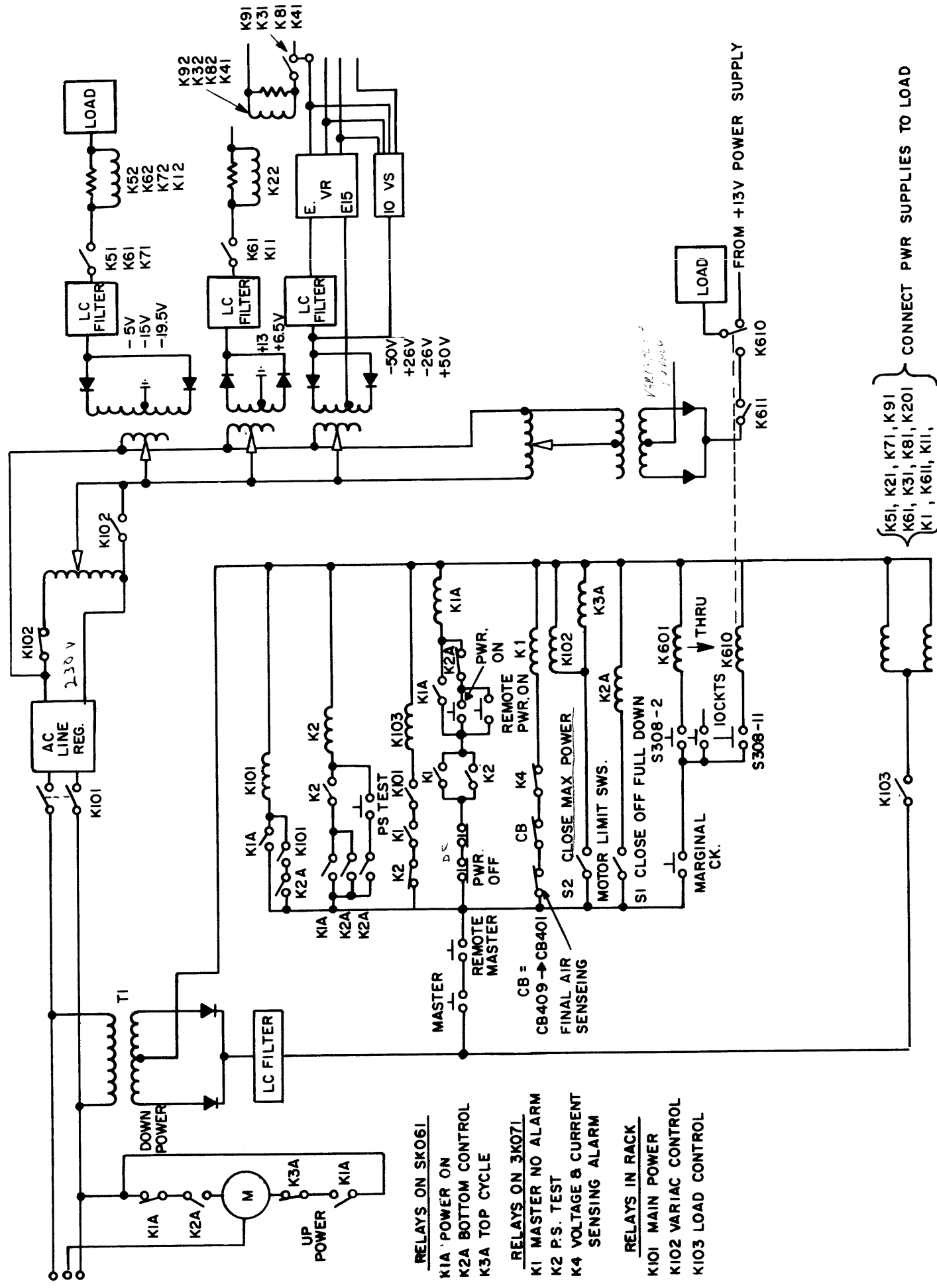
AC Distribution Panel

125973



DC Distribution Panel

125967



RELAYS ON SK061

- K1A POWER ON
- K2A BOTTOM CONTROL
- K3A TOP CYCLE

RELAYS ON 3K071

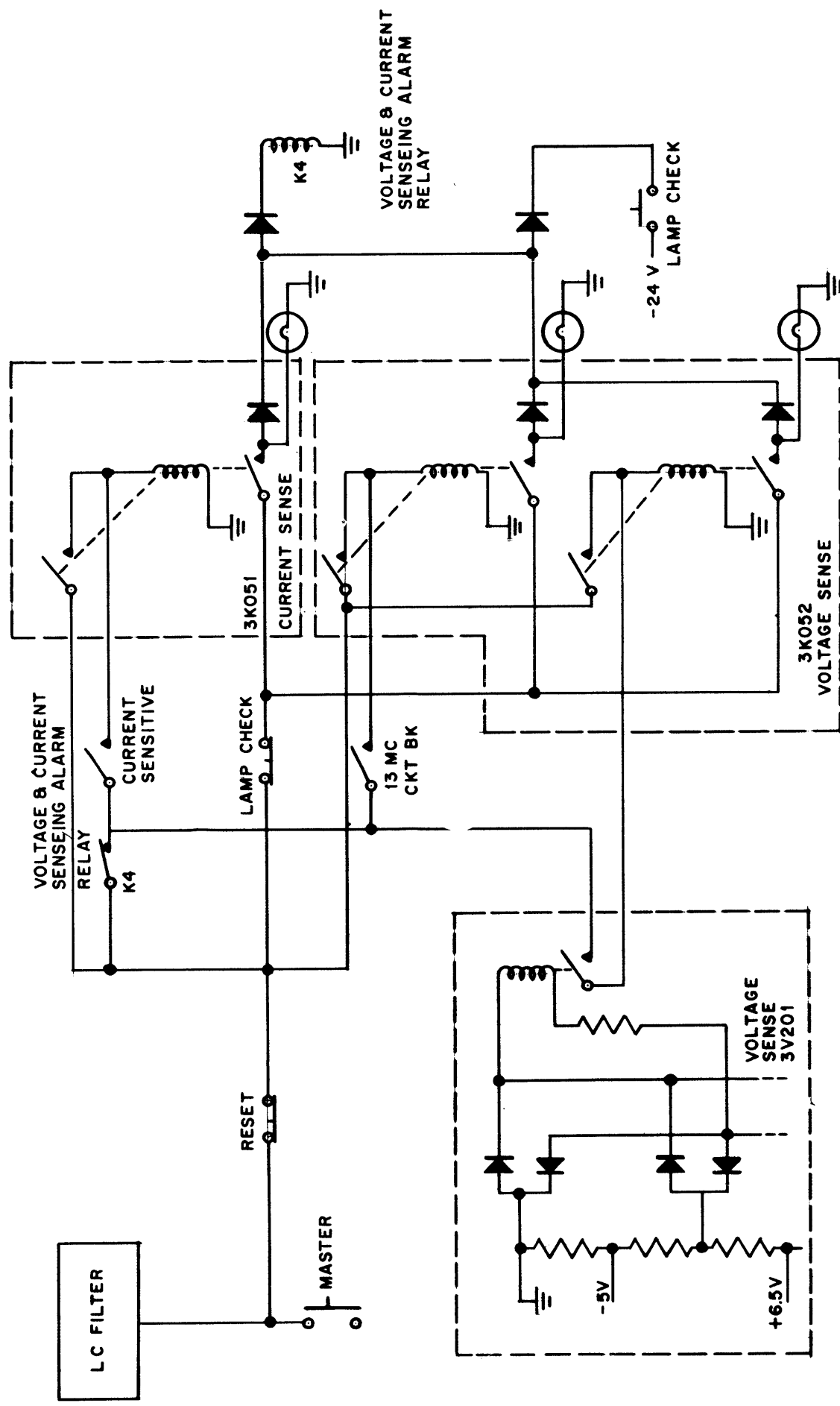
- K1 MASTER NO ALARM
- K2 P.S. TEST
- K4 VOLTAGE & CURRENT SENSING ALARM

RELAYS IN RACK

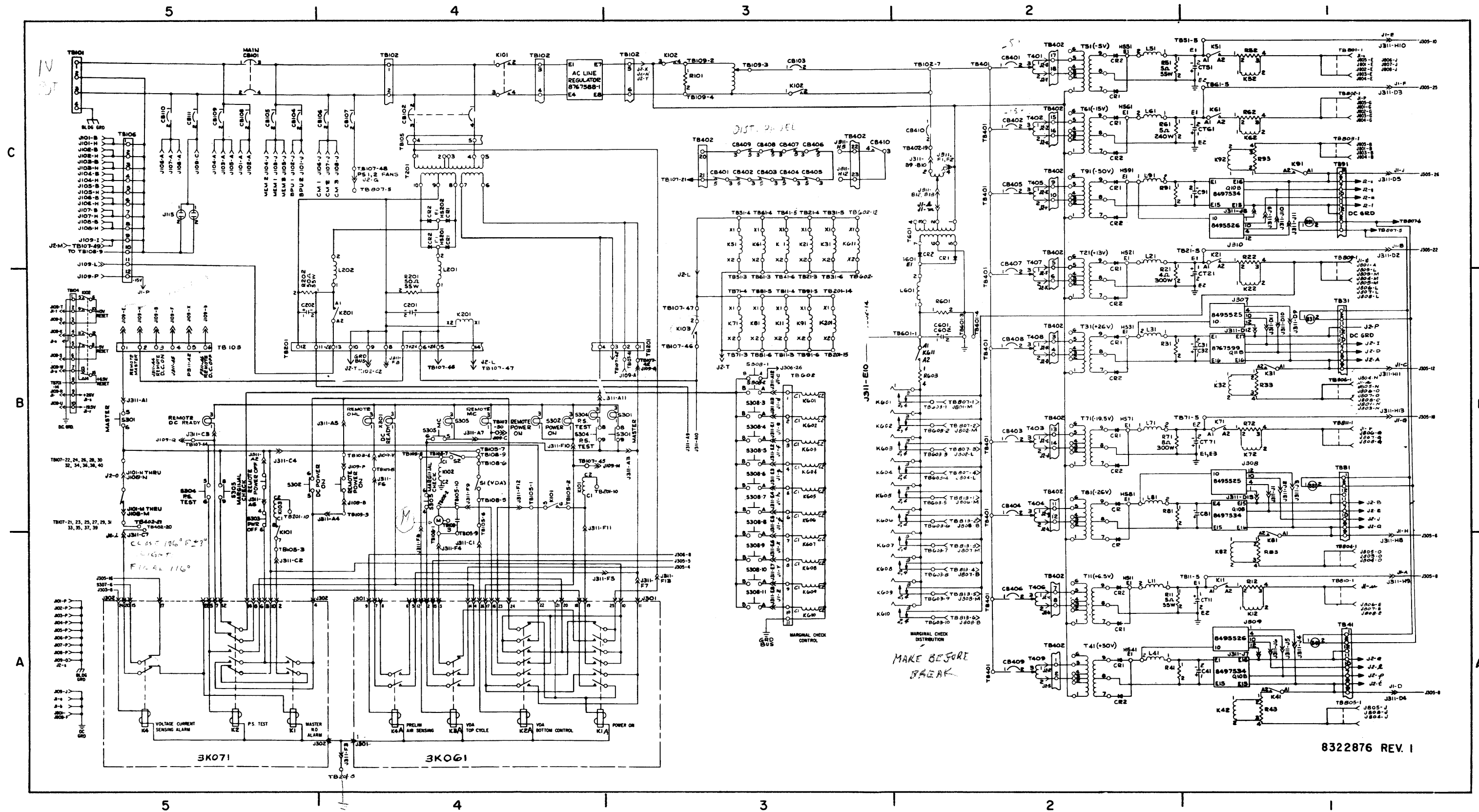
- K101 MAIN POWER
- K102 VARIAC CONTROL
- K103 LOAD CONTROL

{ K51, K21, K71, K91
K61, K31, K81, K201 } CONNECT PWR SUPPLIES TO LOAD
K1, K611, K11,

3301 Power Supply

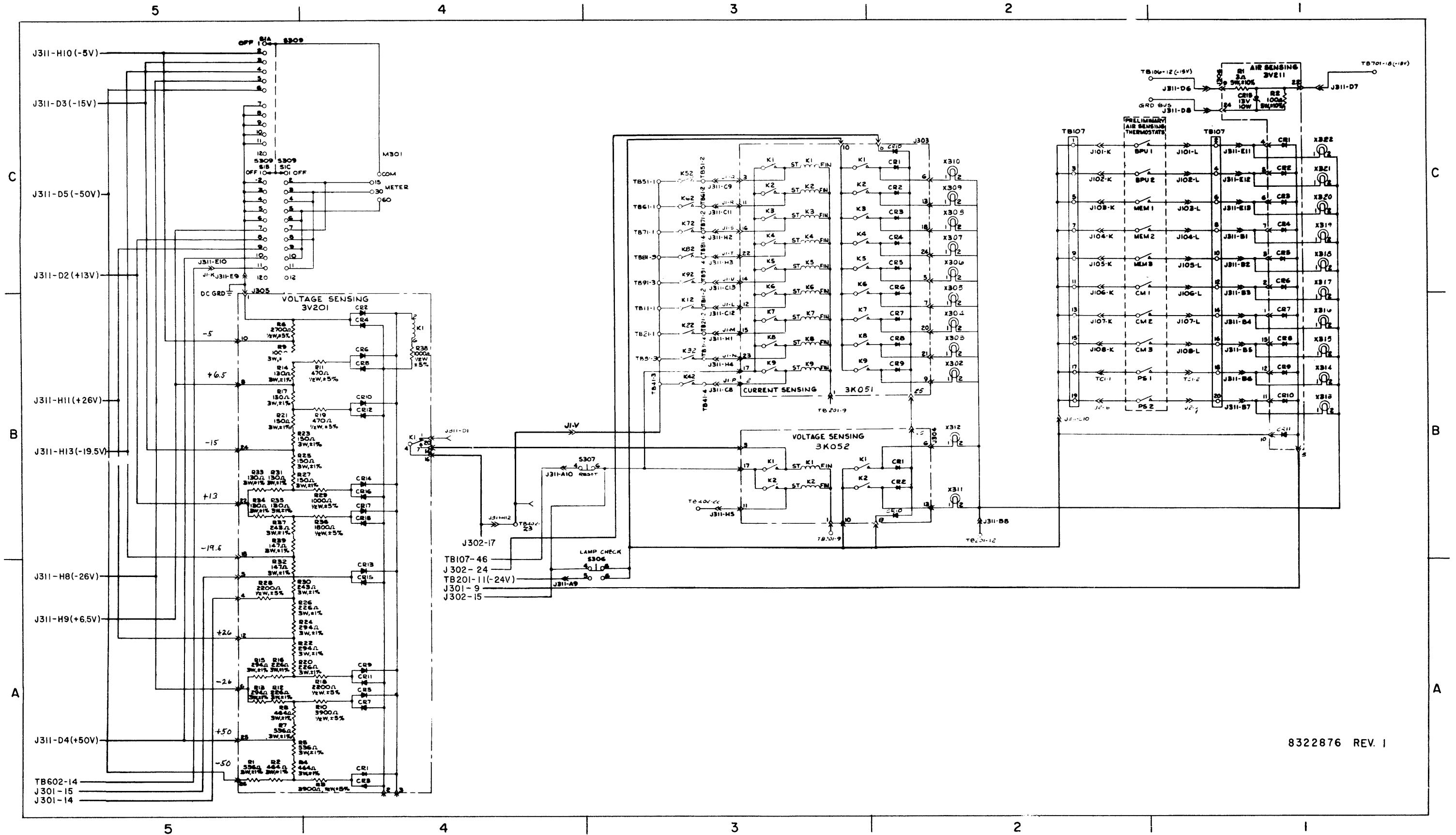


3301 Power Supply Voltage and Current Sensing



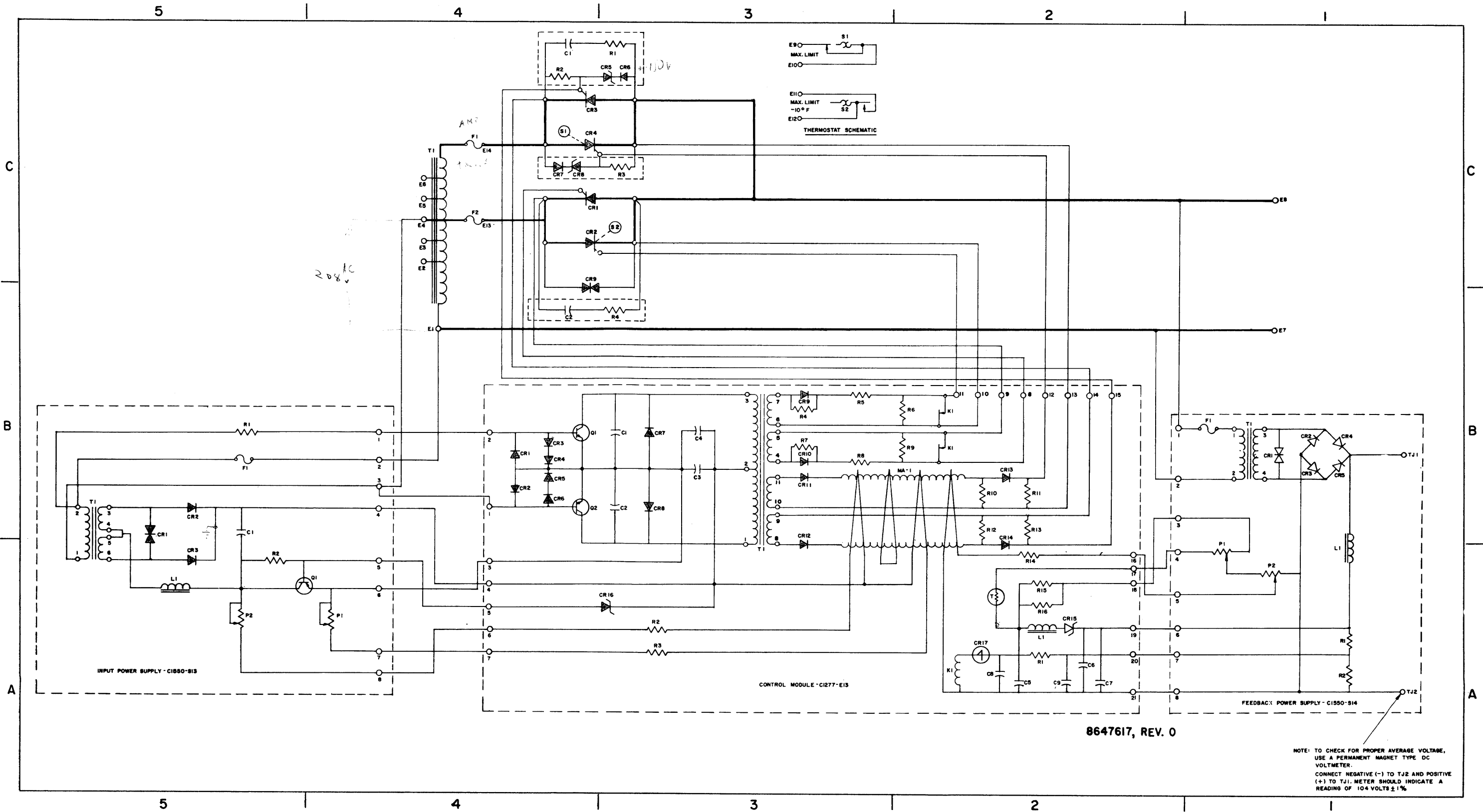
8322876 REV. 1

Power Supply Schematic



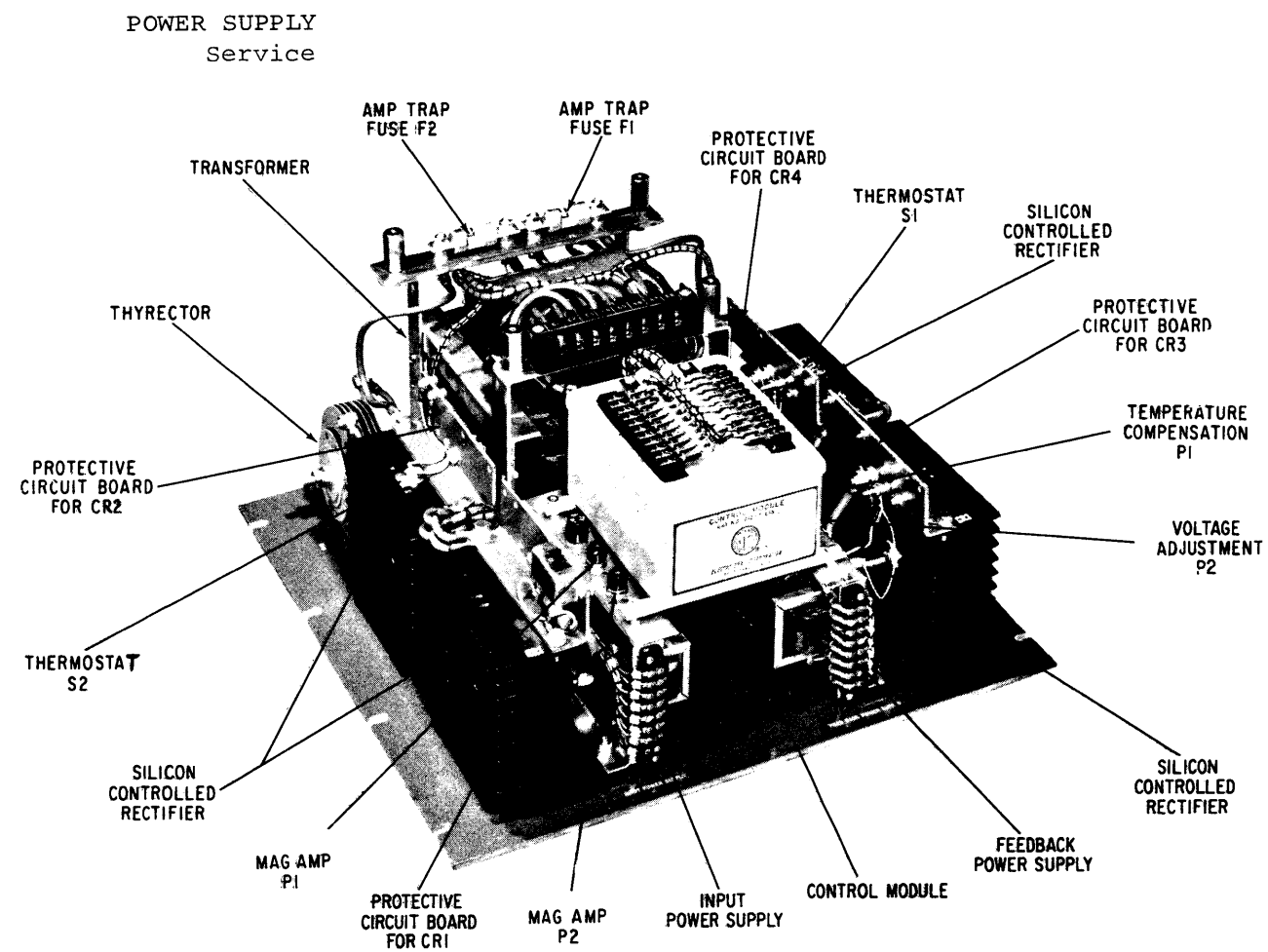
8322876 REV. 1

Power Supply Metering and Sensing Schematic

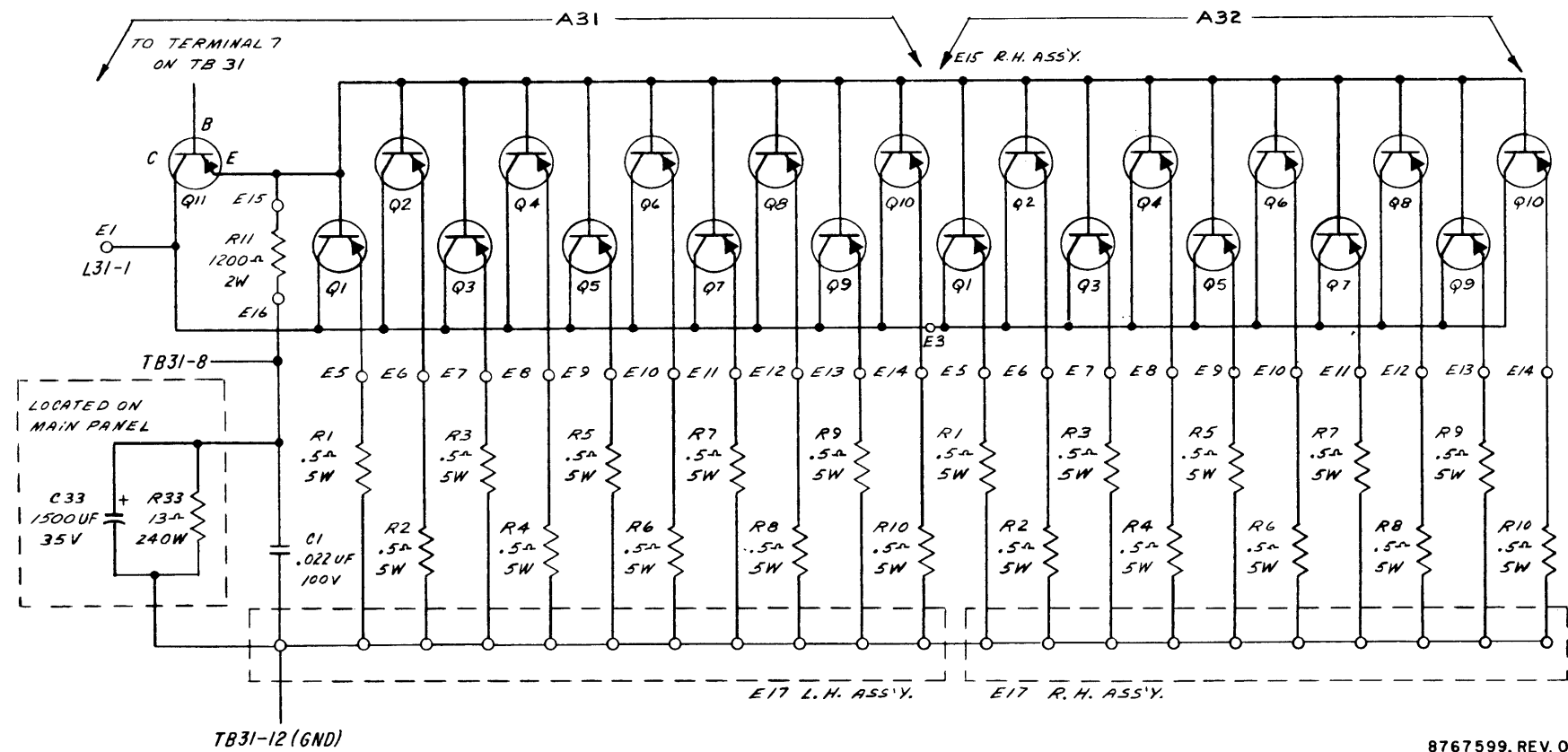


NOTE: TO CHECK FOR PROPER AVERAGE VOLTAGE, USE A PERMANENT MAGNET TYPE DC VOLTMETER. CONNECT NEGATIVE (-) TO TJ2 AND POSITIVE (+) TO TJ1. METER SHOULD INDICATE A READING OF 104 VOLTS ± 1%.

AC Line Regulator Schematic

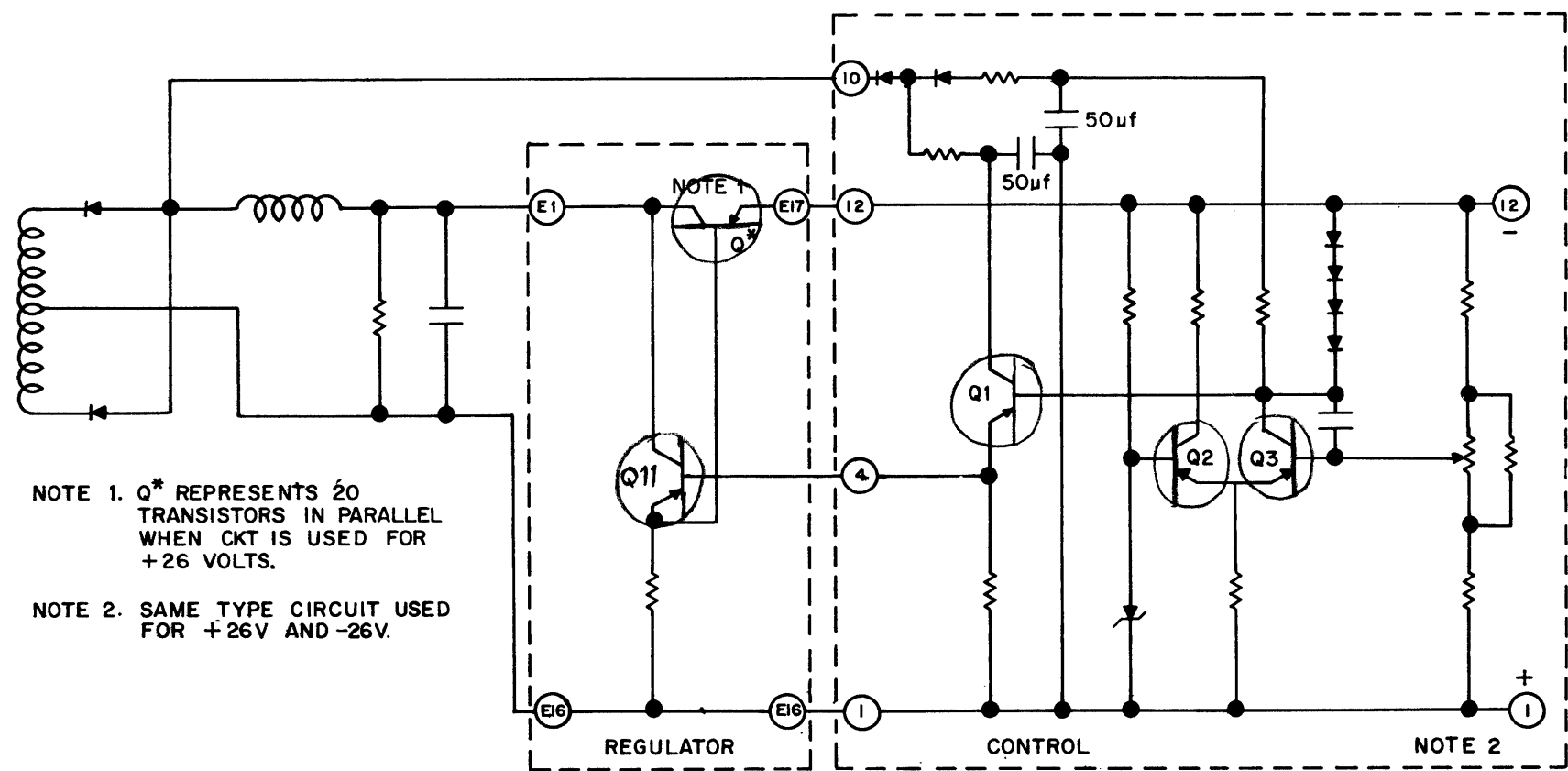


AC Line Regulator Component Layout



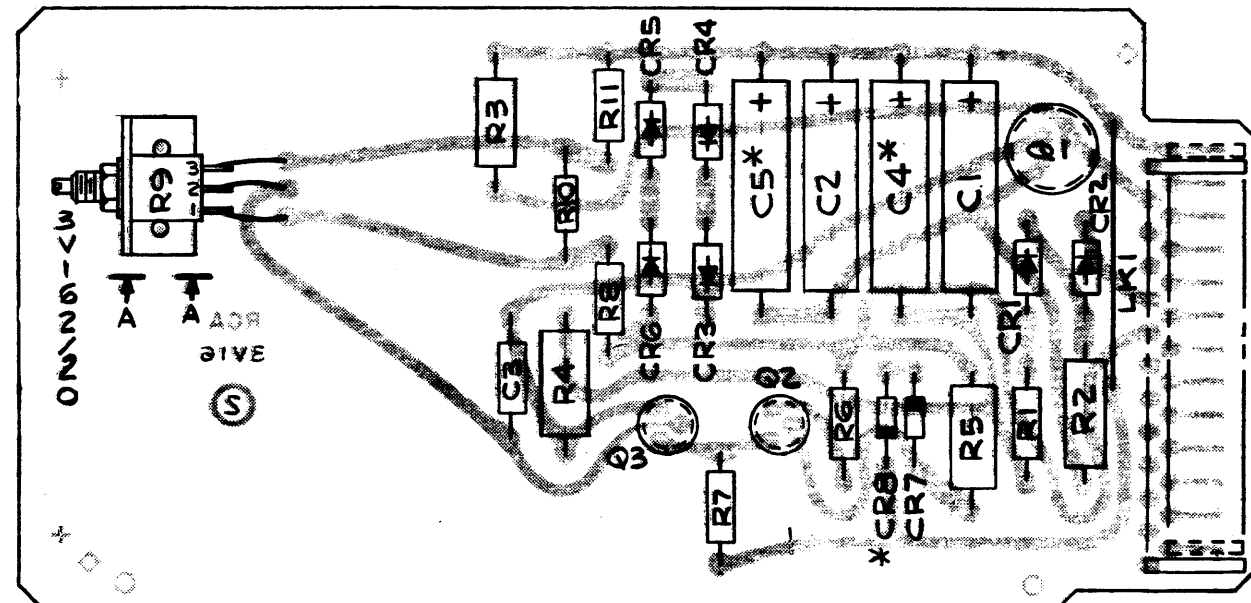
Power Transistor Assembly, +26 Volt Power Supply

8767599, REV. 0

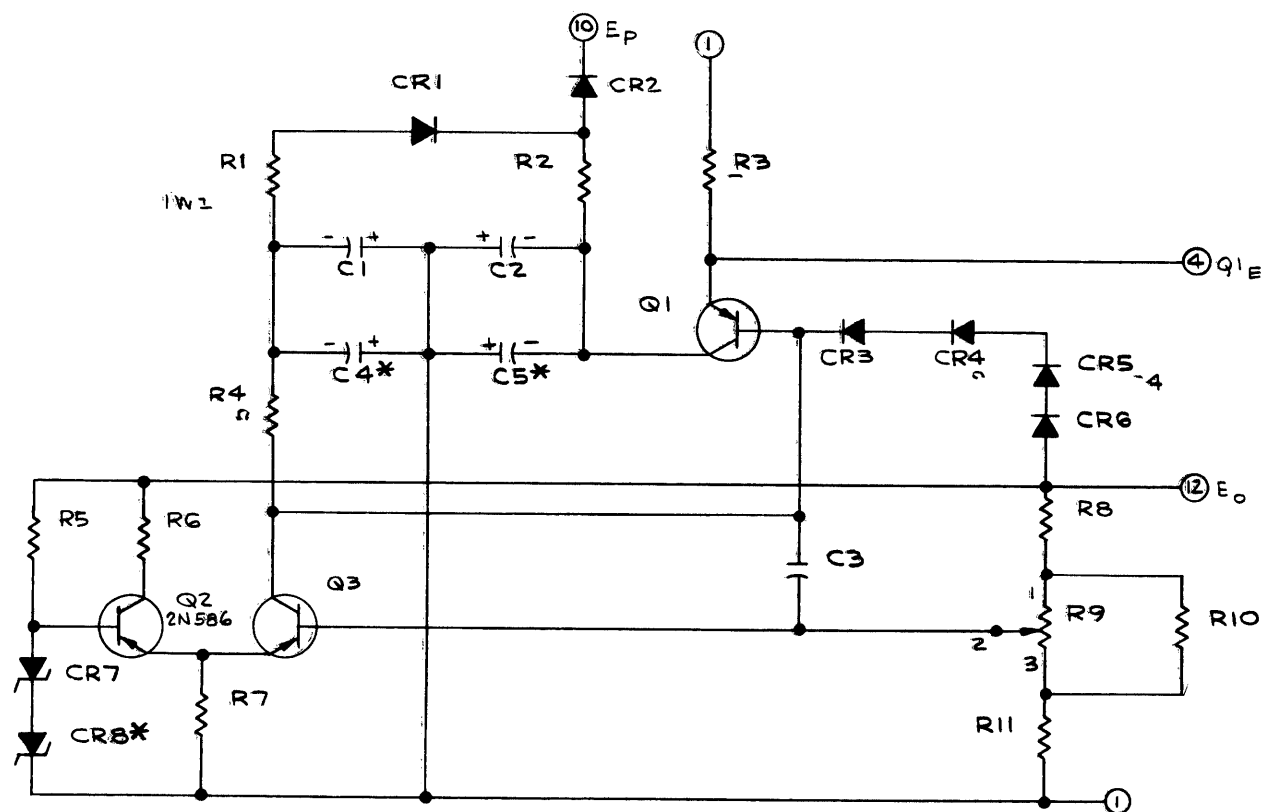


DC Control and Regulator

POWER SUPPLY
Service



8541542, REV. 4

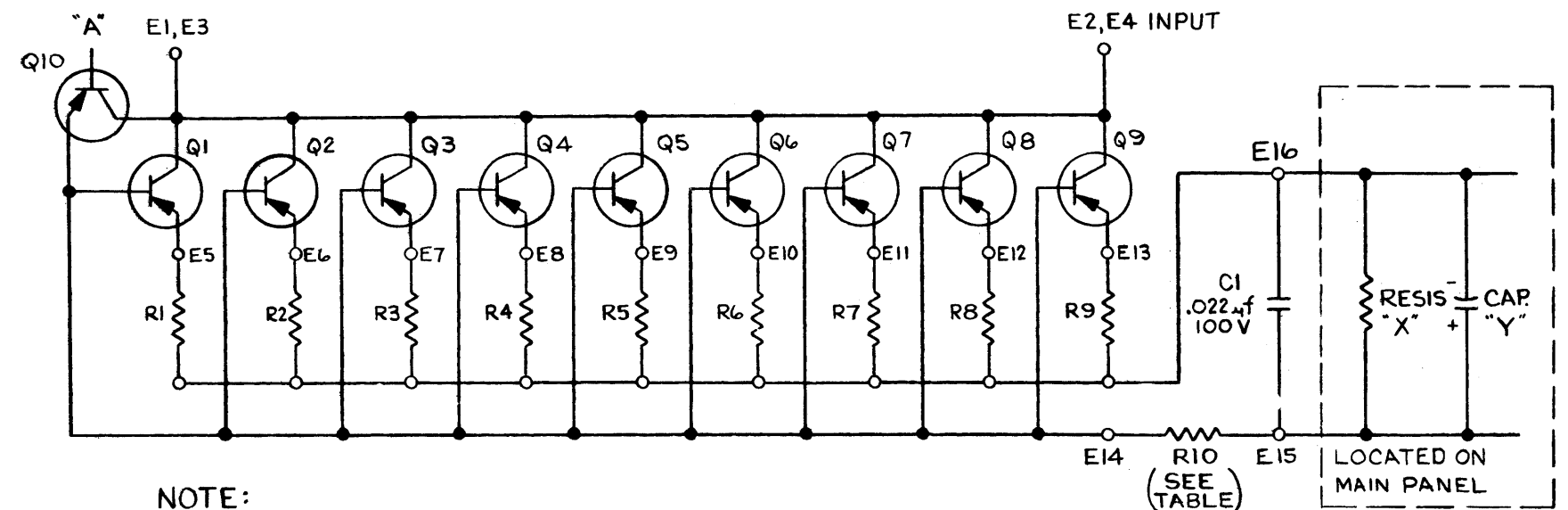


* NOT SUPPLIED ON 3V161

8495526, REV. 0

Control Plug-in 3V161,
2 Component Layout and Schematic

POWER SUPPLY
Service



NOTE:

1. R1 THRU R9 ARE .5 Ω , 5W RESISTORS.

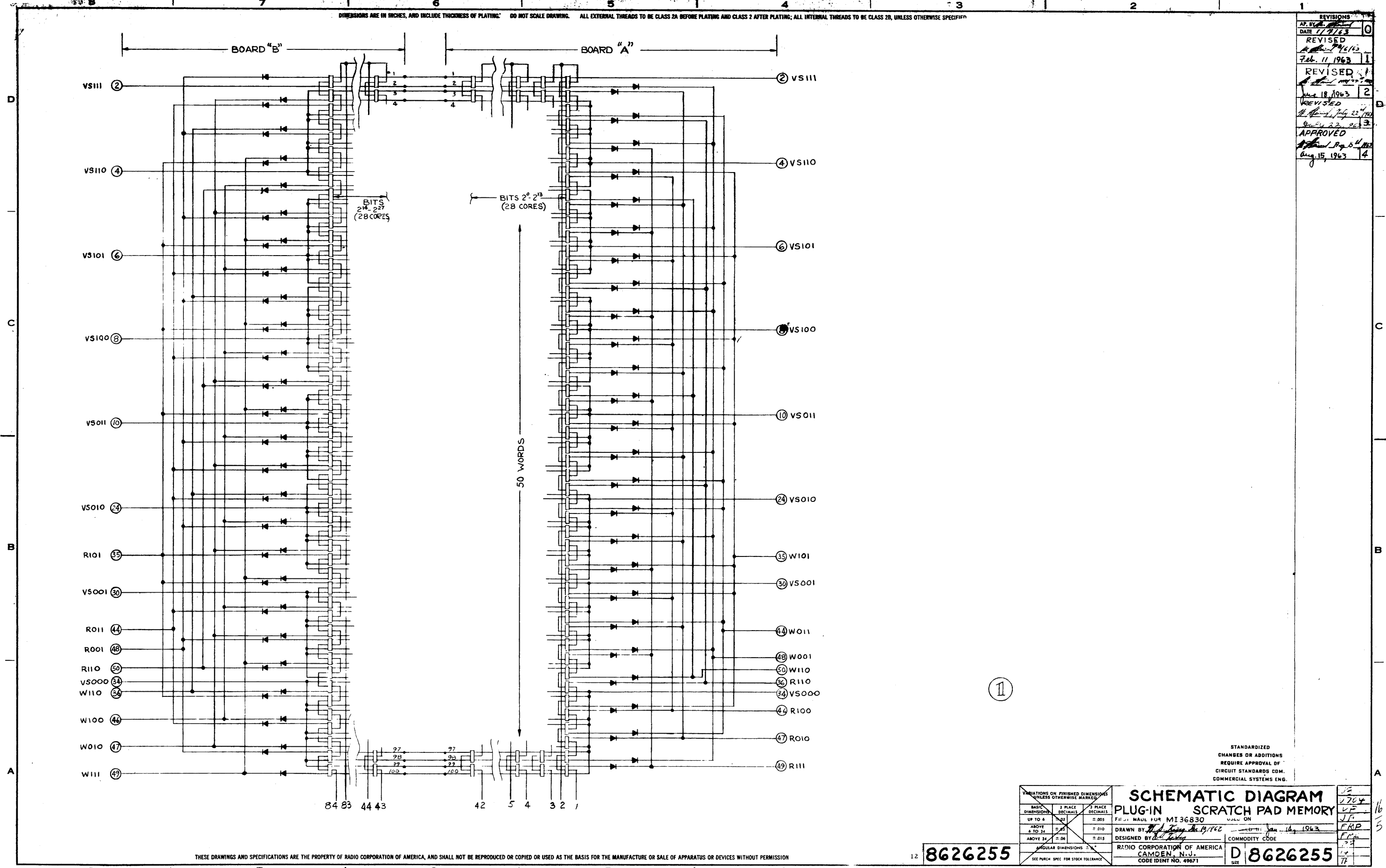
UNIT	RESISTOR "X"	CAPACITOR "Y"	E15	E16	"A"	R10
-26V	R81-13 Ω , 240W	C82-1500 μ f, 35V	GRD BUS	TO K31-A1	TO TB 81-7	1200 Ω , 2W
-50V	R91-25 Ω , 300W	C92-500 μ f, 75V	GRD BUS	TO K91-A1	TO TB 91-7	1600 Ω , 2W
+50V	R41-25 Ω , 300W	C42-500 μ f, 75V	K41-A1	GRD BUS	TO TB 41-7	1600 Ω , 2W

8497534, REV. 1

Power Transistor Assembly,
-50, +50 and -26 Volt Power Supply

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	0
DATE	1/17/63
REVISED	
APPROVED	
DATE	Feb. 11, 1963
REVISED	
APPROVED	
DATE	May 18, 1963
REVISED	
APPROVED	
DATE	July 22, 1963
REVISED	
APPROVED	
DATE	Aug. 15, 1963



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①

STANDARDIZED
CHANGES OR ADDITIONS
REQUIRE APPROVAL OF
CIRCUIT STANDARDS COM.
COMMERCIAL SYSTEMS ENG.

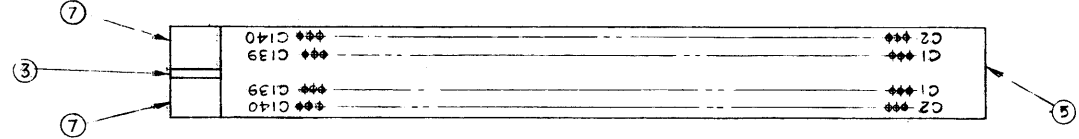
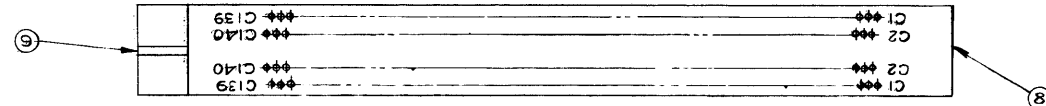
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			SCHEMATIC DIAGRAM PLUG-IN SCRATCH PAD MEMORY FILE NO. MADE FOR MI 36830 DRAWN BY <i>[Signature]</i> DESIGNED BY <i>[Signature]</i> RADIO CORPORATION OF AMERICA CAMDEN, N.J. CODE IDENT NO. 49671	12 16 5 17
BASIC DIMENSIONS	3 PLACE DECIMALS	3 PLACE DECIMALS		
UP TO 6	±.02	±.005		
ABOVE 6 TO 24	±.03	±.010		
ABOVE 24	±.04	±.015	COMMODITY CODE D 8626255	
ANGULAR DIMENSIONS			SEE PURCH SPEC FOR STOCK TOLERANCE	

12 **8626255**

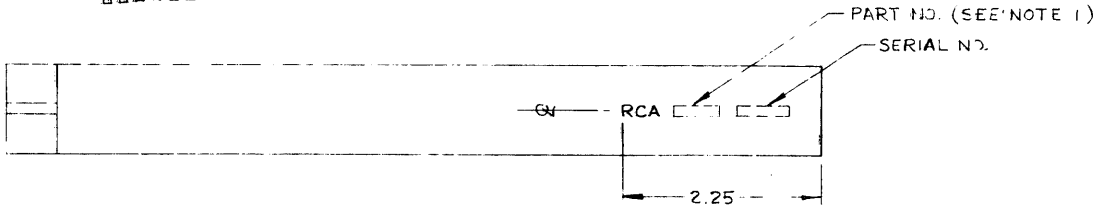
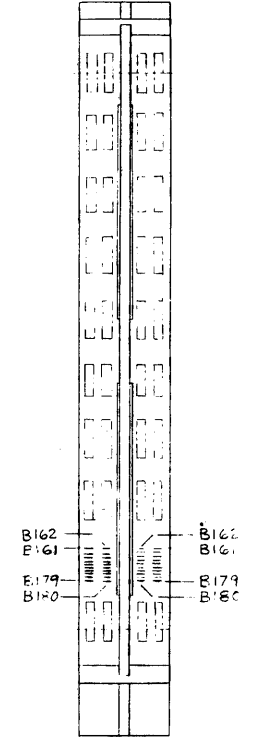
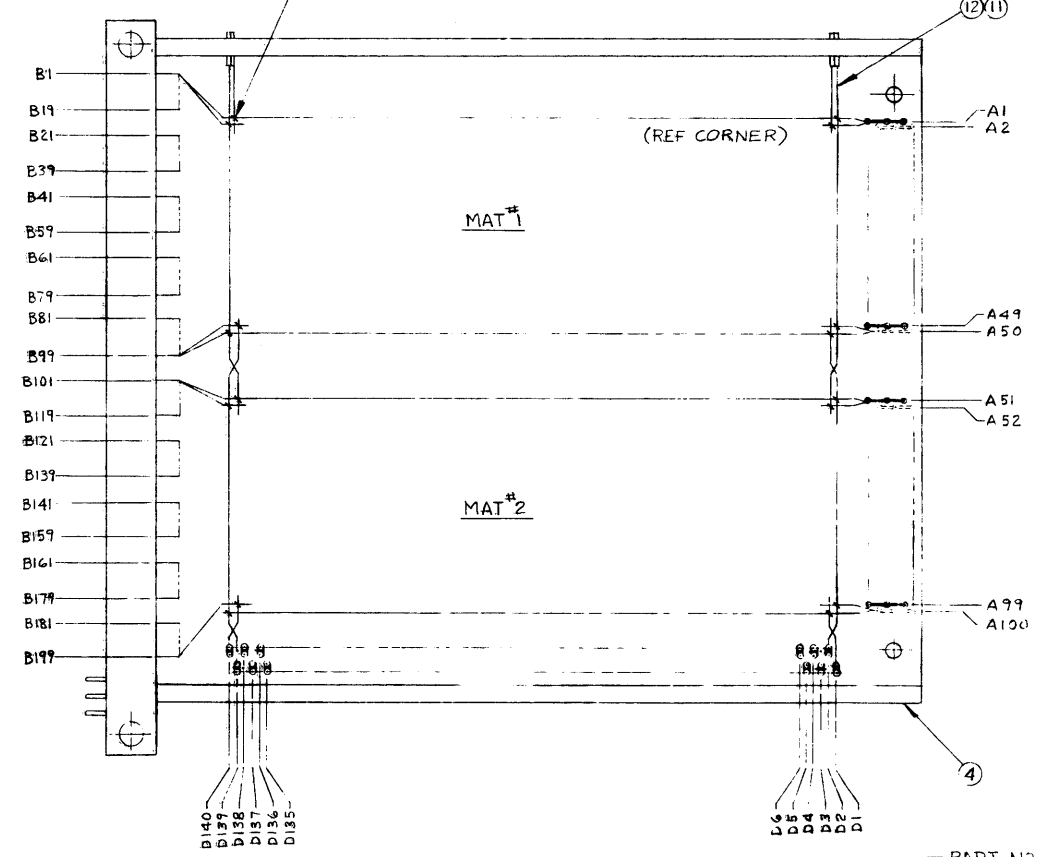
D 8626255

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED



PER LISTED PART OR ENGIN. APPROVED EQUIV. (SEE PURCH. SPEC. 8538057)



GROUP NO.		ITEM OR SYMBOL		REFERENCE		DESCRIPTION
504	503	502	501	DRAWING OR SPECIFICATION	PART OR GROUP	
	X	1		THIS DWG	1	ASSEMBLY
	X	2		THIS DWG	2	ASSEMBLY
		1		8626285	501	MAT SUPPORT ASSY
		1		8538047	1	FRAME SIDE
		1		8745754	501	FRAME SIDE ASSY
		1		1601275	5	EPOXY CEMENT
		2		8626286	1	DIODE MATRIX ASSY
		1		8745754	502	FRAME SIDE ASSY
		1		8626285	502	MAT SUPPORT
		10		497001	63	CORE (30-18)
		1		2010858	1	SOLDER (63/37)
		1		2017278	238	WIRE #38 AGW
	X	X		497032		COATING PROCESS
	X	X		8629808	1	WIRING DIAGRAM
				15		

REVISIONS	
AP. BY	0
DATE	7/23/63
REVISED AND APPROVED	

- NOTES:
- 1-MARK .12 HIGH STD CHARACTERS USING RCA 2016147 (WHT) THEN COVER WITH RCA 1930763 (VARNISH).
 - 2-COAT CORE MAT PER COATING SPEC (ITEM 13) AFTER ELECTRICAL TEST.
 - 3-ITEMS 3, 4, 5, 6, 7, 8 & 9 TO BE CEMENTED IN PLACE USING ADHESIVE (ITEM 6).
 - 4-ALL ELECTRICAL CONNECTIONS TO BE SECURED WITH SOLDER (ITEM 11).

102

3301
7/23/63

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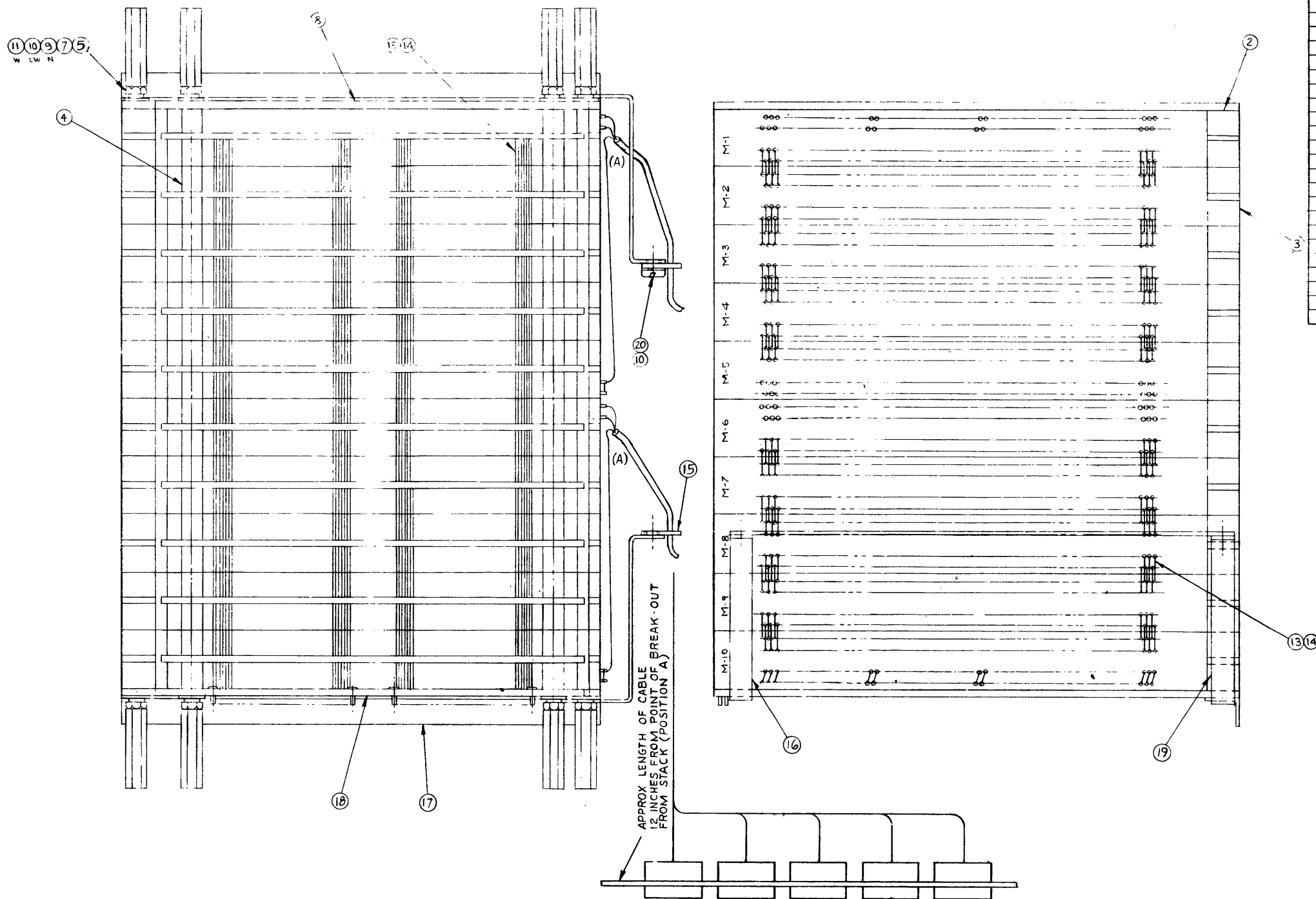
8401500

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		MEMORY PLANE ASSY		JB
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS		VF
UP TO 4	± .02	± .005	FIRST MADE FOR MI 36827	PF
ABOVE 4 TO 24	± .03	± .010	USED ON 8629813	146
ABOVE 24	± .06	± .015	DRAWN BY <i>John Doe</i> Dec 13, 1962	JH
			DESIGNED BY	FLP
			RADIO CORPORATION OF AMERICA CAMDEN, N.J.	RL
			COMMODITY CODE	
			SEE PURCH. SPEC FOR STOCK TOLERANCE	
			ANGULAR DIMENSIONS ± 1/2°	
			RADIO CORPORATION OF AMERICA CAMDEN, N.J.	
			CODE IDENT NO. 49671	

13 **8629811** **D 8629811**

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.



GROUP NO.		REFERENCE		DESCRIPTION
504	502	501	501	
QUANTITY	ITEM OR SYMBOL	DRAWING OR SPECIFICATION	PART OR GROUP	
X	1	THIS DWG	1	ASSEMBLY
	2	8629811	501	PLANE ASSY
	3	8629811	502	PLANE ASSY
40	4	8538065	5	SPACER
	5	8538066	1	STUD
	6	8545970		3301 MEMORY STACK WIRING SCHEDULE(40K)
	7	8541717	2	SPACER, HEX
	8	8486774	1	COVER-SIDE
	9	57435	105	NUT HEX (#8-32)
12	10	93620	109	WASHER, LOCK (#8)
12	11	82278	105	WASHER, FLAT (#8)
X	12	8626288	1	WIRE ROUTING DIAG
1	13	2010105	26	WIRE-COPPER, TINNED #26
SET	14	2010104	363	SOLDER
2	15	8491774	1	CABLING BAR
2	16	8545958	2	CABLING BAR MTG. BRACKET
2	17	8545959	1	BRACKET
1	18	8765270	501	TERMINAL PLATE ASSY
2	19	8545958	1	CABLING BAR MTG BRACKET
4	20	990108	803	SCREW #8(164)-32 X .187 LG
SET	21	8545949	1	WIRE TWISTED TRIPLEX, APPROX 150 FT
SET	22	990941	4	WIRE YELLOW #26 APPROX 200FT
X	23	8536678		ENGR WIRING GUIDE SHT
X	24	8536677		3301 INSTRUCTIONS FOR WIRING
5	25	8626270	2	CONNECTOR (104 PIN)
42	26	8626270	201	MALE CONTACTS
1	27	8765263	501	CONNECTOR PLATE ASSY
20	28	497314	1	TAPER TABS
1	29	8531254	5	WIRE FLAT

REVISIONS	
AP. BY	DATE
10 June 1963	0
REVISED	
14 March 63	1
REVISED AND APPROVED	
10 June 63	2

NOTES:
 1-FOR LOCATIONS OF ITEMS 28 & 29 SEE DWG NO. 8626288 I.
 2-ITEM 21 MAY BE SHIELDED.

STACK ASSY

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED

BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 4	±.02	±.005
ABOVE 4 TO 24	±.03	±.010
ABOVE 24	±.04	±.015

ANGULAR DIMENSIONS ± 15°
 SEE PURCH. SPEC. FOR STACK TOLERANCE

FIRST MADE FOR M136827 USED ON 8538070
 DRAWN BY *A. J. ...* CHECKED BY *M. ...*
 DESIGNED BY *M. ...* COMMODITY CODE

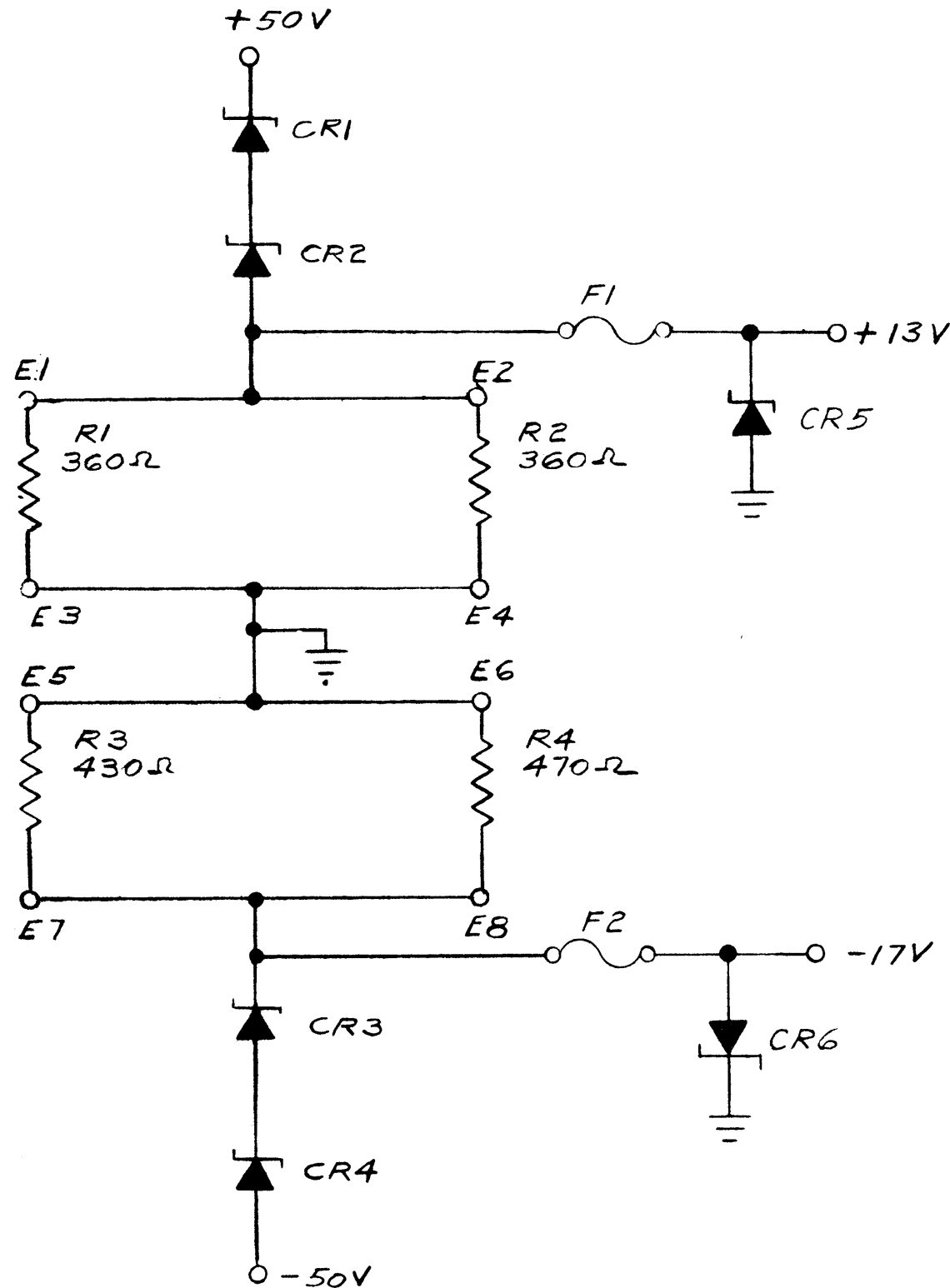
RADIO CORPORATION OF AMERICA
 CAMDEN, N. J.
 CODE IDENT NO. 49671

8401500
8629813
D 8629813

103
3301
Jan 27/63

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REVISIONS :	
AP. BY <i>J. Tullai</i>	0
DATE <i>July 19, 1963</i>	
<i>F1 & F2, CR5 & CR6 ADDED. J1 DELETED WAS LOC BETWEEN CR2 & +13V. J2 DELETED WAS LOC BETWEEN CR3 & -17V. ECM JB</i>	
<i>J. Tullai</i> MAY 20, 1964	
<i>May 27, 1964</i>	1

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18 **8491779**

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	± .02	± .005
ABOVE 6 TO 24	± .03	± .010
ABOVE 24	± .06	± .015
ANGULAR DIMENSIONS ± 1/2 DEG.		
SEE PURCH. SPEC. FOR STOCK TOLERANCE		

SCHEMATIC DIAGRAM

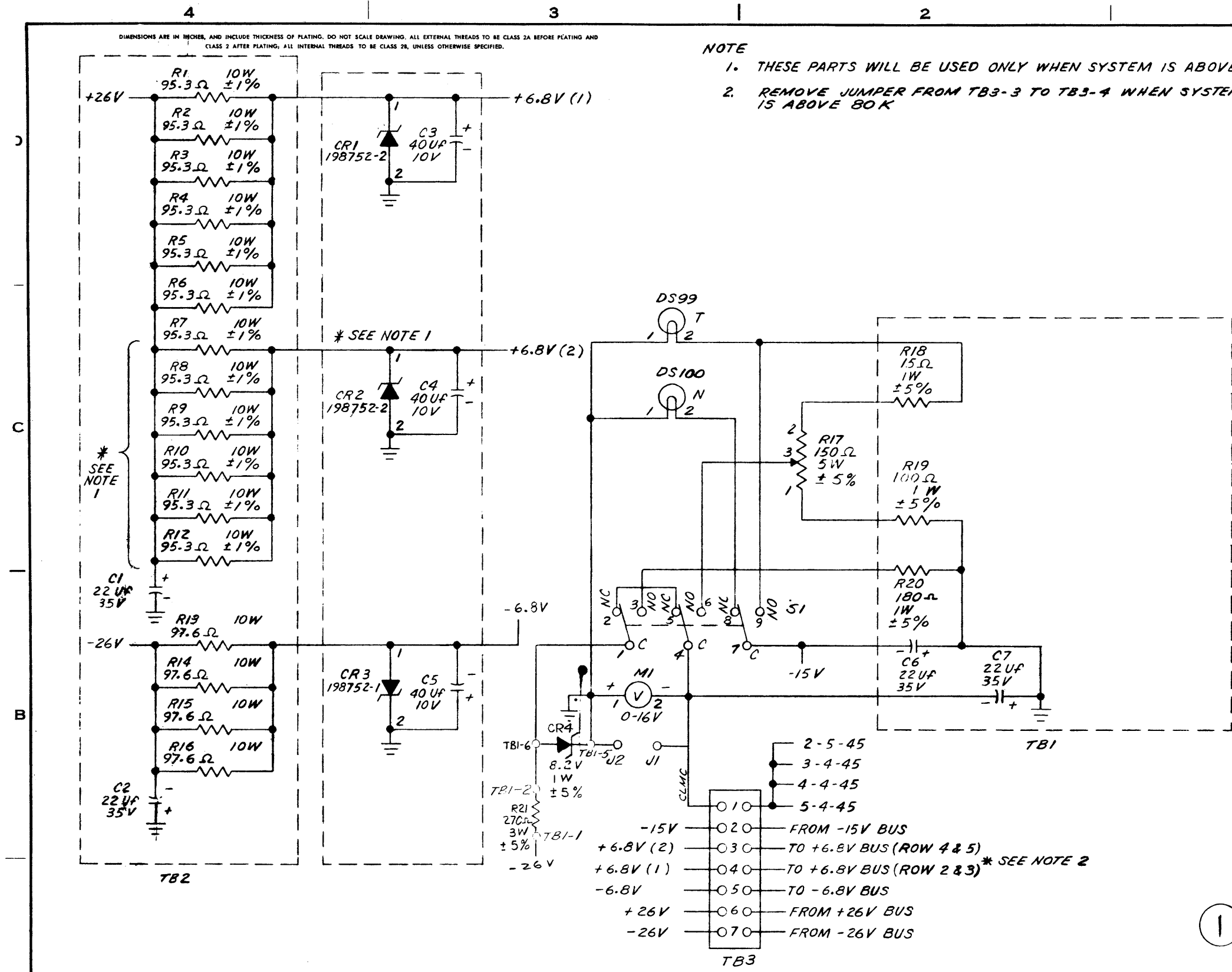
VOLTAGE REGULATOR

FIRST MADE FOR <i>3301</i>	USED ON	J8
DRAWN BY <i>A. R. ... July 17, 1963</i>	CHECKED BY <i>July 23, 1963</i>	V704
DESIGNED BY	COMMODITY CODE	VF
RADIO CORPORATION OF AMERICA		JF
		FRP
		FRL
		PF
		146
SIZE B	8491779	
SHEET	CONT'D ON SH	
CODE IDENT NO. 49671		

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

NOTE

1. THESE PARTS WILL BE USED ONLY WHEN SYSTEM IS ABOVE 80K.
2. REMOVE JUMPER FROM TB3-3 TO TB3-4 WHEN SYSTEM IS ABOVE 80K



REVISIONS	
AP. BY <i>DK Daulton</i>	0
DATE <i>July 17, 1963</i>	
TERMINAL DESIGNATIONS ADDED AT CR1, CR2, CR3, DS99, DS100, R17, R18, R19, R20, TB1, TB2, TB3 DESIGNATIONS ADDED. DS99 WAS DS-1. DS100 WAS DS-2. NOTE 2 ADDED. SUB TITLE WAS AUX BOARDS IN SERVICE PANELS. ECN-JB	
<i>Oct 7, 1963</i>	1
AT TB1, 190002-1 R21, R22 & R23 CR4, CR5 & TEST POINTS DELETED ZONE 3/B AT LOC MI, J1 & J2 ADDED ECN-JB	
<i>Dec 19, 1963</i>	2
AT CR1 & CR2 198752-2 WAS 198752-1. AT CR3 198752-1 WAS 198752-2. AT R20 180Ω WAS 10K. ECN-JB	
<i>May 5, 1964</i>	3
ON S1, 1, 2 & 3 REV. 5 & 6 REV. 8 & 9 REVERSED. ADDED CR4 & R21. ECN-V704	
<i>9-7-65</i>	4
FC: <i>26/10/5-9-65</i>	

8765262

- 2-5-45
- 3-4-45
- 4-4-45
- 5-4-45
- 15V — 020 — FROM -15V BUS
- +6.8V (2) — 030 — TO +6.8V BUS (ROW 4 & 5)
- +6.8V (1) — 040 — TO +6.8V BUS (ROW 2 & 3) * SEE NOTE 2
- 6.8V — 050 — TO -6.8V BUS
- +26V — 060 — FROM +26V BUS
- 26V — 070 — FROM -26V BUS

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	±.02	±.005
ABOVE 6 TO 24	±.03	±.010
ABOVE 24	±.04	±.015
ANGULAR DIMENSIONS ± 1/2°		
SEE PURCH. SPEC. FOR STOCK TOLERANCE		

SCHMATIC DIAGRAM
6.8V SUPPLIES FOR SENSE AMPS

FIRST MADE FOR M1 36824 USED ON 8541826

DRAWN BY *DK Daulton July 19, 1963* CHECKED BY *July 17, 1963*

DESIGNED BY _____ COMMODITY CODE _____

RADIO CORPORATION OF AMERICA

SIZE **8765262**

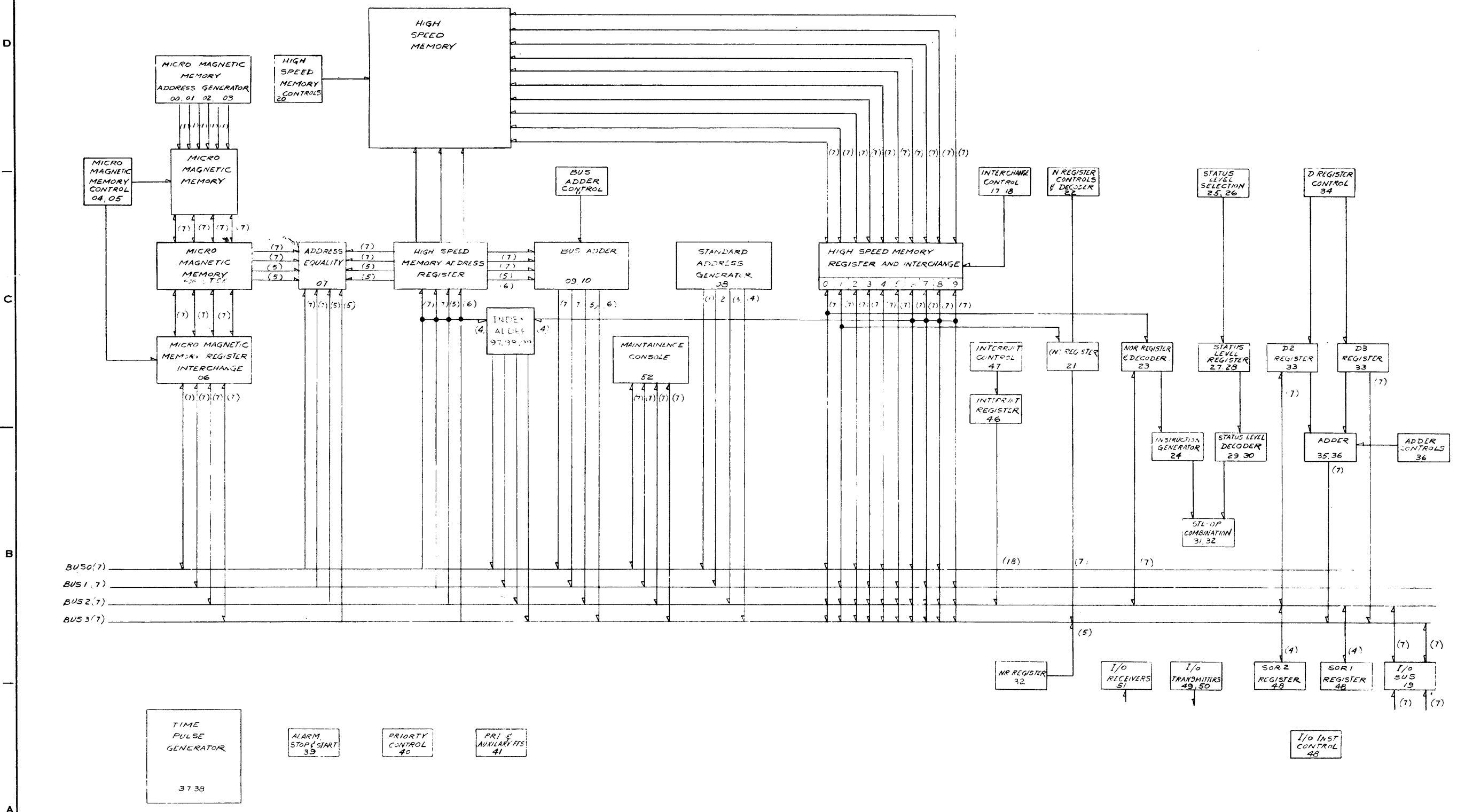
CODE IDENT NO. 49671

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LOGIC PRINTS

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2P UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	0
DATE	
REVISOR'S RESPONSIBILITY	
APPROVED	
DATE	12/19/63



TIME PULSE GENERATOR 37 38
 ALARM STOP/START 39
 PRIORITY CONTROL 40
 PRI & AUXILIARY TIS 41

AMT - INT-2
 INST FLOW
 FF 42 43 44 45

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 4	± .01	± .005
ABOVE 4 TO 24	± .01	± .010
ABOVE 24	± .02	± .015
ANGULAR DIMENSIONS	± .01	
SEE MACH SPEC FOR STOCK TOLERANCE		

BLOCK DIAGRAM

FIRST MADE FOR: _____ USED ON: _____

DRAWN BY: *William C. [Signature]* CHECKED BY: _____

DESIGNED BY: _____ COMMODITY CODE: _____

RADIO CORPORATION OF AMERICA

CODE IDENT NO. 49671

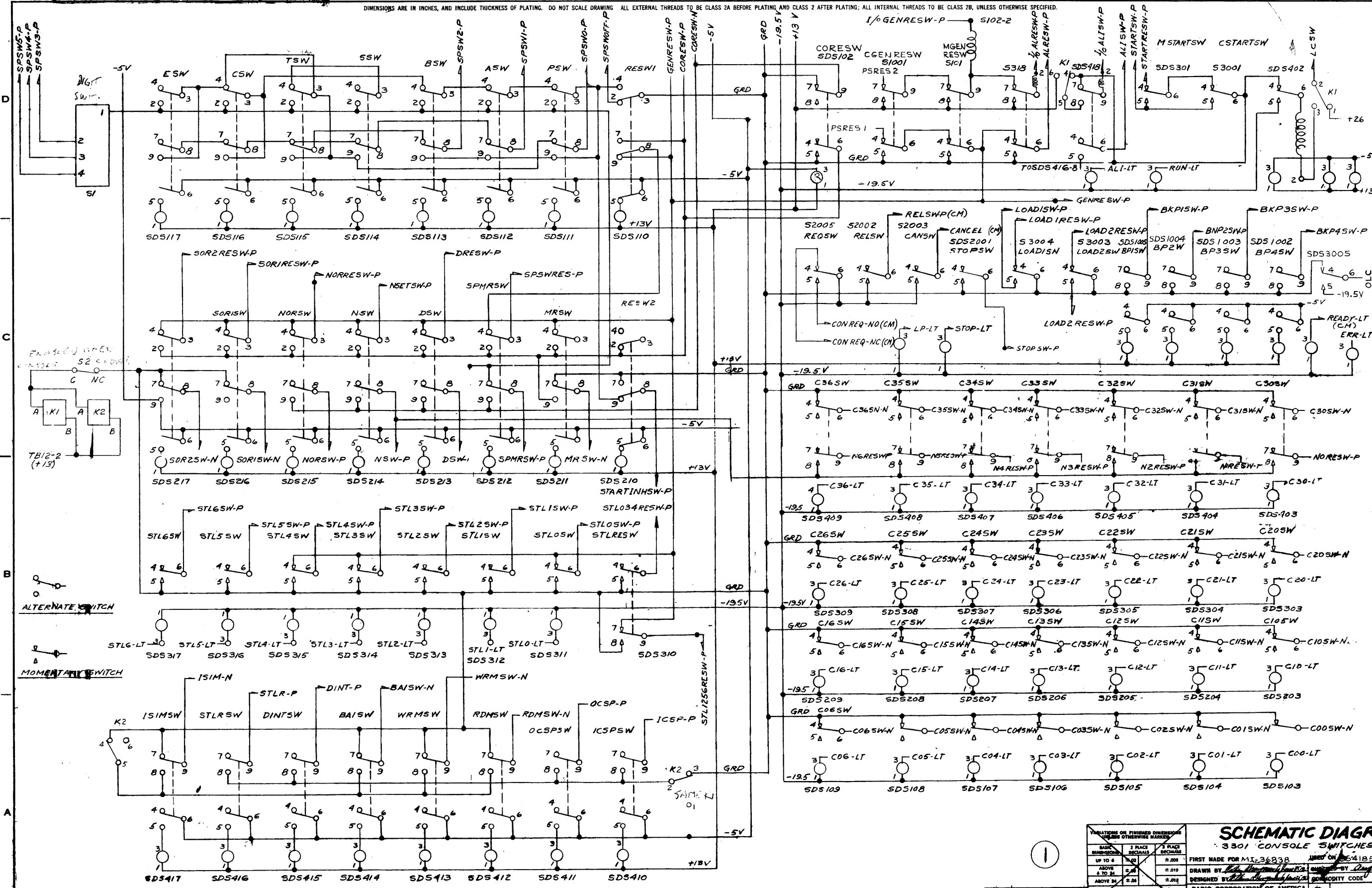
8627672

D 8627672

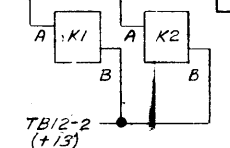
DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

CLASS 2A WKS
CONSULE
C-020

REVISIONS	
AP. BY	DATE
REVISED & APPROVED	
By	12/19/63
GENERAL REV.	ECN-V704 A.D.
ECN-V704 A.D.	31065
31065	3-9-65
CHANGED DELINEATION PER ECN	ECN V704 WKS
John D. Lingo	31065
31065	31065



ENABLED WHEN
S2 CLOSURE



ALTERNATE SWITCH

MOMENTARY SWITCH

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RADIO CORPORATION OF AMERICA, AND SHALL NOT BE REPRODUCED OR COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

3627669

SCHEMATIC DIAGRAM 3301 CONSOLE SWITCHES		JB PF
FIRST MADE FOR MI-36838 DRAWN BY: [Signature] DESIGNED BY: [Signature]	FIRST MADE FOR MI-36838 DRAWN BY: [Signature] DESIGNED BY: [Signature]	FRL JF
RADIO CORPORATION OF AMERICA CODE IDENT. NO. 49471	3627669	3301

8

7

6

5

4

3

2

1

TOP MAT

BOTTOM MAT

REFERENCE CORNER

REFERENCE CORNER

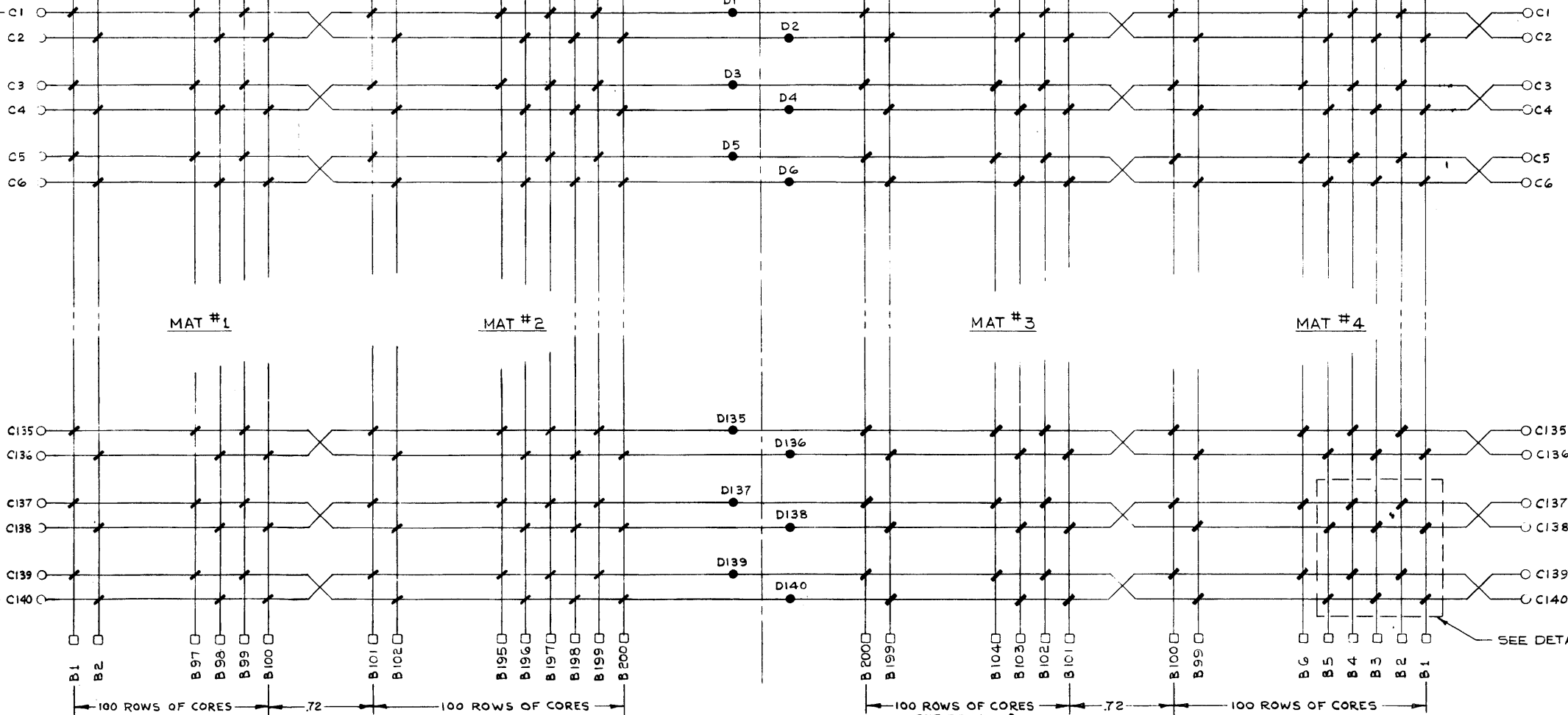
140 ROWS OF CORES
SEE DETAIL "A"

MAT #1

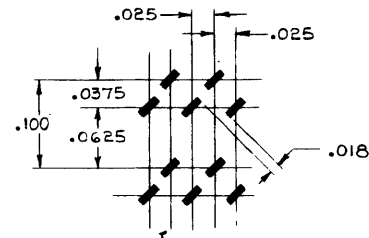
MAT #2

MAT #3

MAT #4



- - INDICATES PAD ON SIDE SHOWN.
- - INDICATES PAD ON OPPOSITE SIDE SHOWN.
- - INDICATES FEED THRU PADS.
- - INDICATES TERMINALS ON FRAME SIDE.
- - INDICATES TERMINALS ON CONNECTOR.



TYPICAL CORE PATTERN LAYOUT
DETAIL "A"

REVISIONS	
AP. BY	0
DATE	1 Feb 1963
REVISED	
APPROVED	1
DATE	21 Feb 1963
REVISED	
APPROVED	2
DATE	14 March 63
REVISED	
APPROVED	13
DATE	July 23, 1963

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8629808

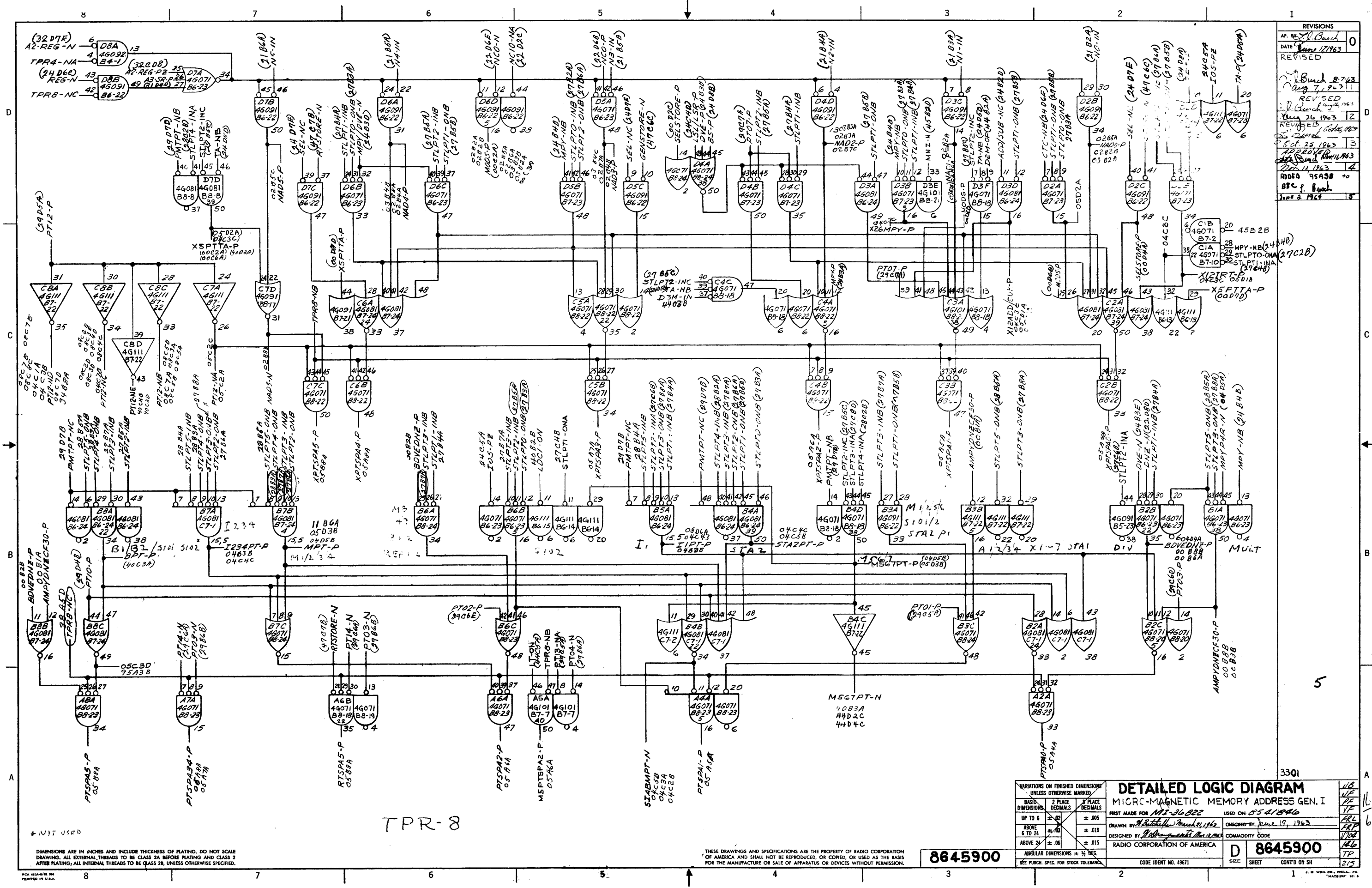
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	± .02	± .005
ABOVE 6 TO 24	± .03	± .010
ABOVE 24	± .06	± .015
ANGULAR DIMENSIONS ± 1/2 DEG.		
SEE PURCH. SPEC. FOR STOCK TOLERANCE		

WIRING DIAGRAM	
MEMORY PLANE	
FIRST MADE FOR M136827	USED ON 8629811
DRAWN BY: P. Paul Dec 18, 1962	ENGINEERED BY: 4 Feb 1963
DESIGNED BY:	COMMODITY CODE:
RADIO CORPORATION OF AMERICA CAMDEN, N. J.	
SIZE	D 8629808
SHEET	CONT'D ON SH

3301
JWB
PF
VE
JF
FR
FR
FR

4

1
2
3
4
5
6
7
8



VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	± .02	± .005
6 TO 24	± .03	± .010
ABOVE 24	± .06	± .015
ANGULAR DIMENSIONS ± 1/2 DEG.		
SEE PURCH. SPEC. FOR STOCK TOLERANCE		

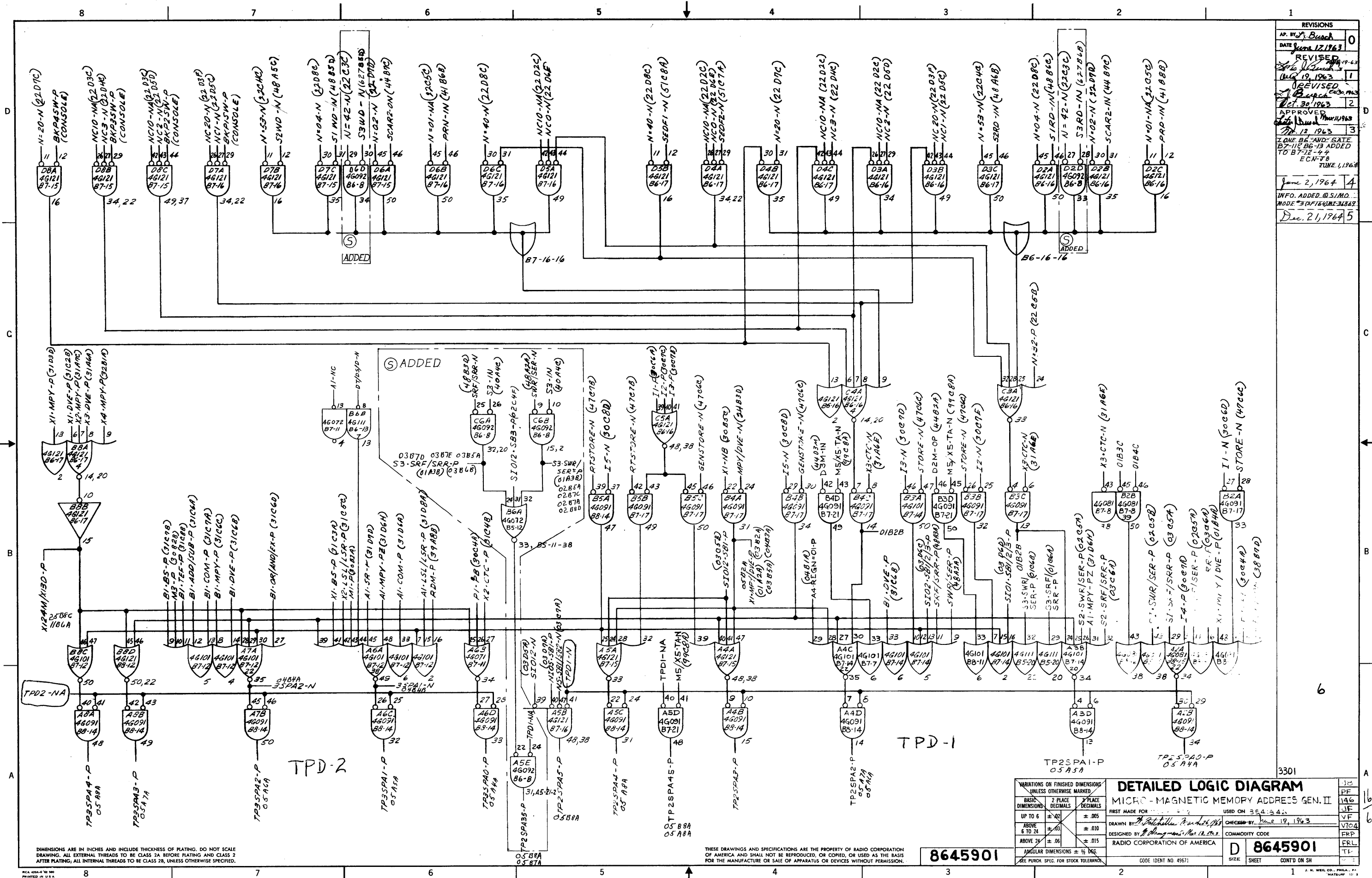
DETAILED LOGIC DIAGRAM		3301	
MICR-MAGNETIC MEMORY ADDRESS GEN. I			
FIRST MADE FOR MI-36-882		USED ON 85-41-846	
DRAWN BY: <i>[Signature]</i>		CHECKED BY: <i>[Signature]</i>	
DESIGNED BY: <i>[Signature]</i>		COMMUNITY CODE	
RADIO CORPORATION OF AMERICA		8645900	
D		8645900	
SIZE		SHEET	
CONT'D ON SH		2/5	

REVISIONS	
NO.	DATE
0	1/17/63
1	2/7/63
2	3/26/63
3	5/25/63
4	7/12/63
5	8/27/63

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8645900



REVISIONS	
AP. BY: <i>B. Busch</i>	0
DATE: <i>June 17, 1963</i>	
REVISED BY: <i>B. Busch</i>	1
DATE: <i>July 19, 1963</i>	
REVISED BY: <i>B. Busch</i>	2
DATE: <i>Oct. 30, 1963</i>	
REVISED BY: <i>B. Busch</i>	3
DATE: <i>Dec. 12, 1963</i>	
REVISED BY: <i>B. Busch</i>	4
DATE: <i>June 2, 1964</i>	
REVISED BY: <i>B. Busch</i>	5
DATE: <i>Dec. 21, 1964</i>	

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	4 PLACE DECIMALS
UP TO 6	± .02	± .005	± .001
ABOVE 6 TO 24	± .03	± .010	± .002
ABOVE 24	± .06	± .015	± .003
ANGULAR DIMENSIONS	± 1/16 DEG		
SEE PURCH. SPEC. FOR STOCK TOLERANCE.			

DETAILED LOGIC DIAGRAM

MICRO-MAGNETIC MEMORY ADDRESS GEN. II

FIRST MADE FOR: *Raytheon Co.* USED ON: *354342*

DRAWN BY: *B. Busch* CHECKED BY: *June 19, 1963*

DESIGNED BY: *B. Busch* COMMODITY CODE

RADIO CORPORATION OF AMERICA

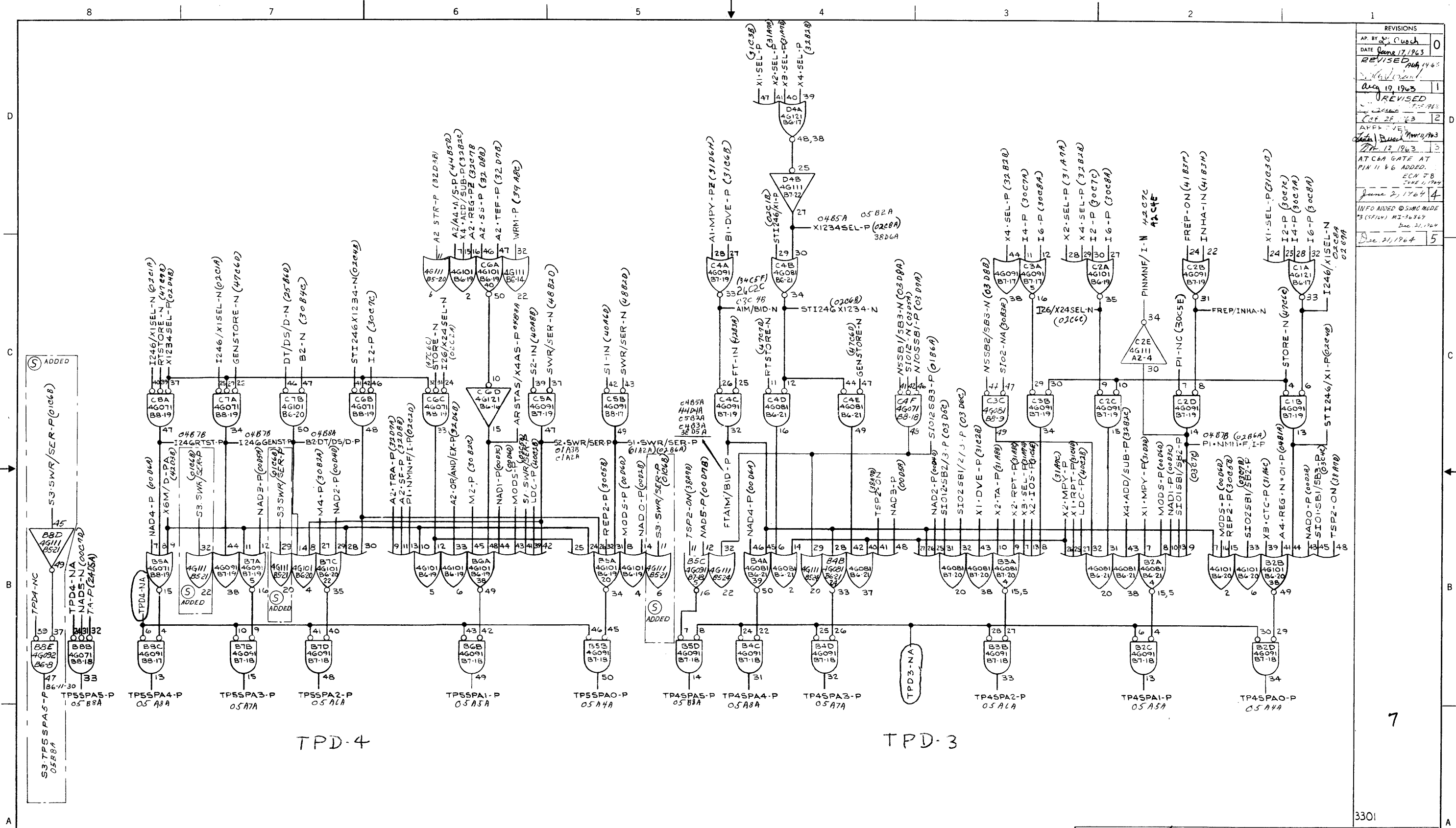
D 8645901

SIZE: SHEET CONT'D ON SH

8645901

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DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.



REVISIONS	
AP. BY: C. C. Cooch	0
DATE: June 17, 1963	
REVISED: Aug 14, 1963	
REVISED: Aug 19, 1963	1
REVISED: Oct 28, 1963	2
REVISED: Dec 12, 1963	3
REVISED: June 2, 1964	4
REVISED: Dec 21, 1964	5

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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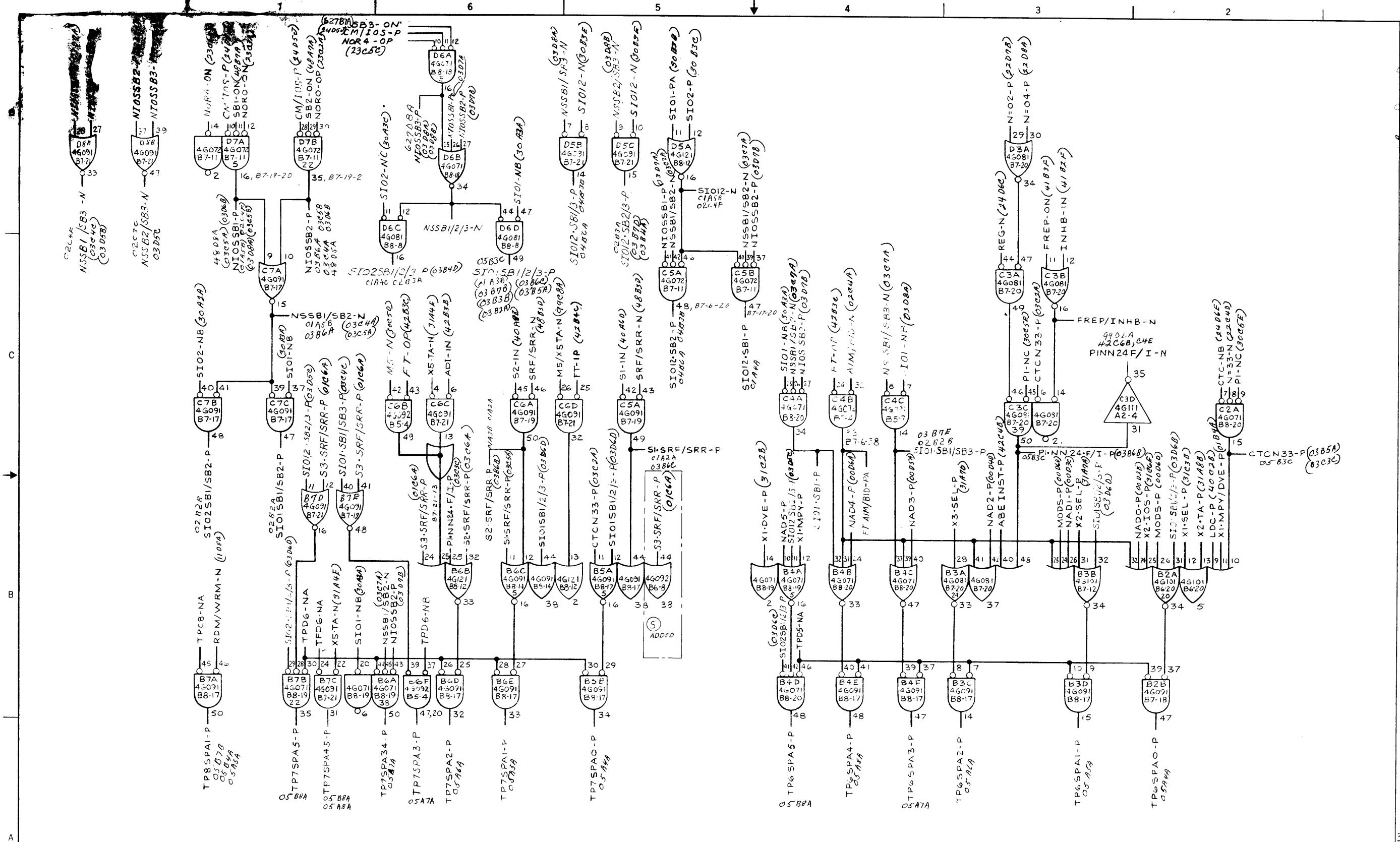
8645902

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	± .02	± .005
ABOVE 6 TO 24	± .03	± .010
ABOVE 24	± .06	± .015
ANGULAR DIMENSIONS ± 1/2 DEG		
SEE PURCH. SPEC. FOR STOCK TOLERANCES		

DETAILED LOGIC DIAGRAM	
MICRO-MAGNETIC MEMORY ADDRESS GEN. III	
FIRST MADE FOR: M-3622	USED ON: 854942
DRAWN BY: <i>[Signature]</i>	CHECKED BY: <i>[Signature]</i>
DESIGNED BY: <i>[Signature]</i>	DATE: 12, 1963
RADIO CORPORATION OF AMERICA	
COMMUNITY CODE	
D 8645902	
SIZE: SHEET	CONT'D ON SH. 215
CODE IDENT NO. 49671	

3301

7



REVISIONS	
AP. BY: <i>W. J. Smith</i>	0
DATE: <i>June 17, 1963</i>	
REVISION: <i>REVISED</i>	
REVISION: <i>REVISED</i>	1
REVISION: <i>REVISED</i>	2
REVISION: <i>REVISED</i>	3
REVISION: <i>REVISED</i>	4
REVISION: <i>REVISED</i>	5

D7A, D7B, C5A, EC5B:
 46072 WAS 46071.
 DESIGNATIONS
 ADDED AT D7A-16,
 D7B-35, C5A-48 &
 C5B-47
 ECM JB
 June 9, 1964
 INFO. ADDED @ 5110:
 MODE *3 (3716) M-36869
 Dec. 21, 1964

8

3301

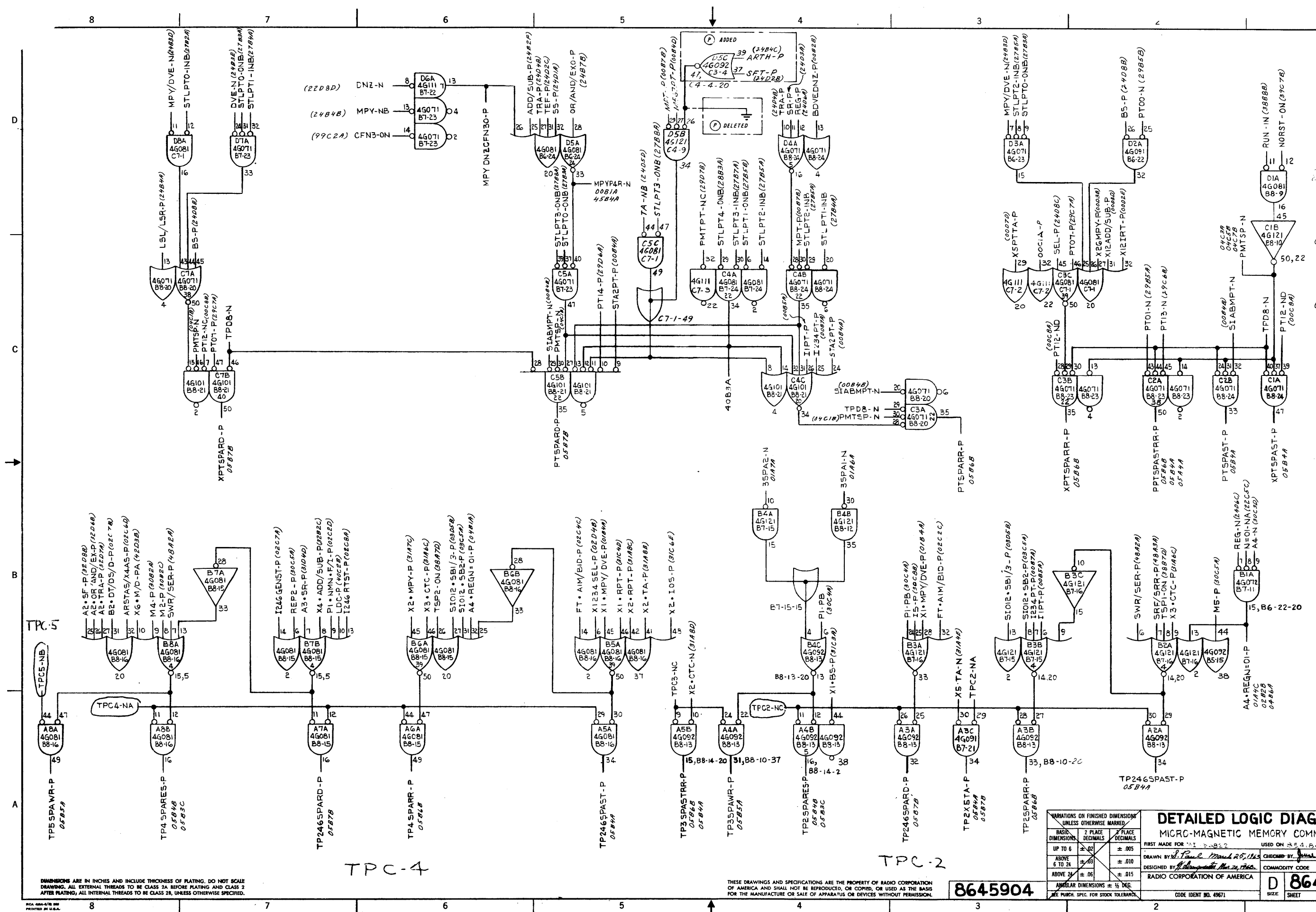
DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8645903

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED:			
BASIC DIMENSIONS	2 PLACE DECIMALS	2 PLACE DECIMALS	2 PLACE DECIMALS
UP TO 6	± .01	± .005	
ABOVE 6 TO 24	± .01	± .010	
ABOVE 24	± .06	± .015	
ANGULAR DIMENSIONS = 15 DEG			
SEE PURCH SPEC FOR STOCK TOLERANCES			

DETAILED LOGIC DIAGRAM	
MICRO-MAGNETIC MEMORY ADDRESS GEN. IV	
FIRST MADE FOR: <i>100-100000</i>	USED ON: <i>100-100000</i>
DRAWN BY: <i>C. J. Smith</i>	CHECKED BY: <i>W. J. Smith</i>
DESIGNED BY: <i>W. J. Smith</i>	DATE: <i>June 17, 1963</i>
RADIO CORPORATION OF AMERICA	COMMODITY CODE
D	8645903
SIZE	SHEET
	CONT'D ON SH



REVISIONS	
AP. BY: J. P. Bunch	0
DATE: June 17, 1963	
REVISED: C. L. Bunch	
June 28, 1963	1
REVISED: C. L. Bunch	
June 28, 1963	2
REVISED: C. L. Bunch	
June 28, 1963	3
REVISED: C. L. Bunch	
June 28, 1963	4
APPROVED: J. P. Bunch	
June 12, 1963	5
DSB ADDED: ECN JB	
June 3, 1964	6
AT LOC DIA 46072	
WAS 46071, 2A,	
3C, 4A, 43, 43A,	
44B, 45B, 45B,	
46092 WAS 46091.	
LOC 25C ADDED.	
ECN JB	
June 3, 1964	7
REV. GET RELEASED	
SIMULTANEOUSLY	
ADD INFO FOR 3304	
June 21, 1964	8

LOGIC ELEMENT INDEX		
B6-21	B7-11	B8-9
B6-22	B7-12	B8-10
B7-24	B7-13	B8-11
	B7-21	B8-12
	B7-22	B8-13
	B7-23	B8-14
	B7-24	B8-15
		B8-16
		B8-17
		B8-18
		B8-19
		B8-20
		B8-21
		B8-22
		B8-23
		B8-24
C3-4	CT-1	
C4-8	CT-2	
	CT-3	

DETAILED LOGIC DIAGRAM
MICRO-MAGNETIC MEMORY COMMANDS I

FIRST MADE FOR NI 33042 USED ON 33044

DRAWN BY: J. P. Bunch, March 20, 1963 CHECKED BY: J. P. Bunch, June 19, 1963

DESIGNED BY: J. P. Bunch, Mar 24, 1963 COMMUNITY CODE

RADIO CORPORATION OF AMERICA

AMERICAN DIMENSIONS ARE 1/16" DEC.

SEE PURCH. SPEC. FOR STOCK TOLERANCE.

SIZE: D SHEET: 8645904

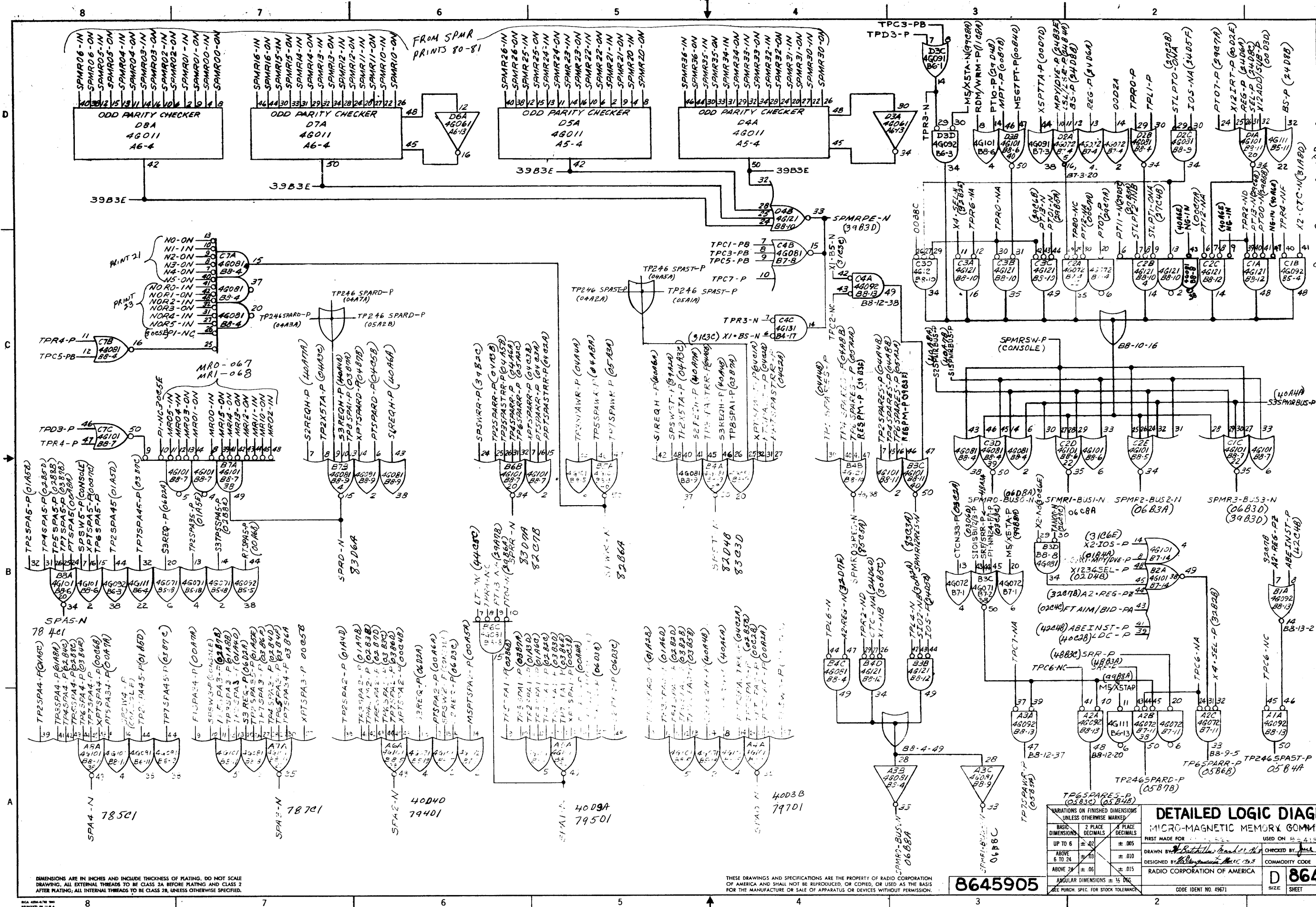
CODE IDENT NO. 49671

CONT'D ON SH

8645904

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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REVISIONS		
DATE	17 JUN 63	0
REVISION	REVISED	1
REVISED	REVISED	2
REVISED	REVISED	3
REVISED & APPROVED:	REVISED	4
REVISED	REVISED	5
REVISED	REVISED	6
REVISED	REVISED	7
REVISED	REVISED	8
REVISED	REVISED	9
REVISED	REVISED	10
REVISED	REVISED	11
REVISED	REVISED	12

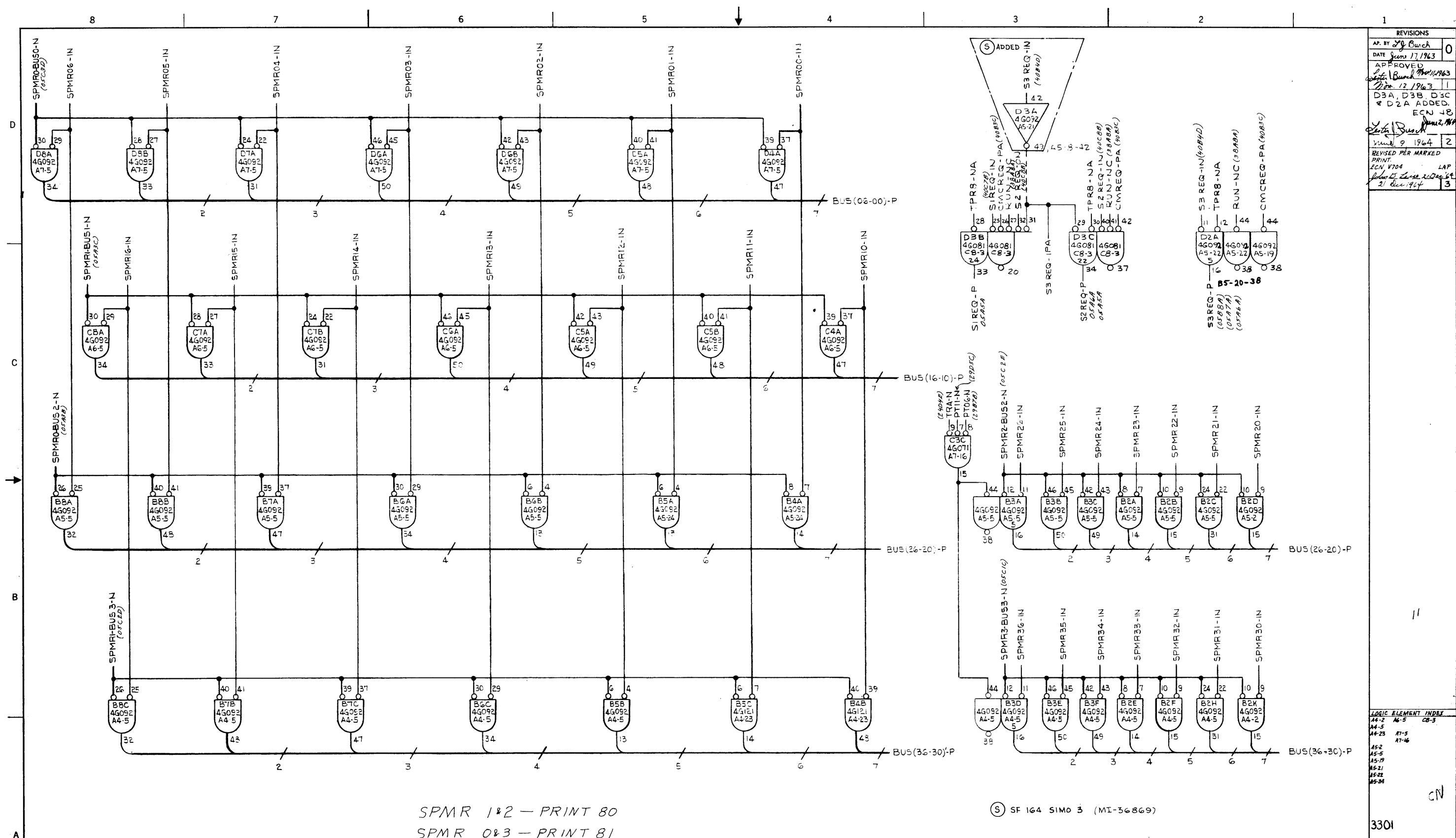
LOGIC ELEMENT INDEX	
AS-4	87-1
BS-4	87-2
CS-4	87-3
DS-4	87-4
ES-4	87-5
FS-4	87-6
GS-4	87-7
HS-4	87-8
IS-4	87-9
JS-4	87-10
KS-4	87-11
LS-4	87-12
MS-4	87-13
NS-4	87-14
OS-4	87-15
PS-4	87-16
QS-4	87-17
RS-4	87-18
TS-4	87-19
US-4	87-20
VS-4	87-21
WS-4	87-22
XS-4	87-23
YS-4	87-24
ZS-4	87-25

DETAILED LOGIC DIAGRAM		
MICRO-MAGNETIC MEMORY COMMANDS II		
FIRST MADE FOR: [Blank] USED ON: 8541240		
DRAWN BY: [Blank] CHECKED BY: [Blank] DATE: 19 JUN 63		
DESIGNED BY: [Blank] COMMUNITY CODE: [Blank]		
RADIO CORPORATION OF AMERICA		
8645905		
CODE IDENT NO: 49671		
SIZE: SHEET CONT'D ON SH		

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8645905



SPMR 1 & 2 - PRINT 80
 SPMR 0 & 3 - PRINT 81

⑤ SF 164 SIMO 3 (MI-36869)

REVISIONS	
AP. BY <i>S. G. Burch</i>	0
DATE <i>June 17, 1963</i>	
APPROVED	
<i>S. G. Burch</i>	
<i>June 12, 1963</i>	1
D3A, D3B, D3C & D2A ADDED. ECN 48	
<i>S. G. Burch</i>	
<i>June 9, 1964</i>	2
REVISED PER MARKED PRINT	
ECN 1704	
<i>S. G. Burch</i>	
<i>21 Dec 1964</i>	3

LOGIC ELEMENT INDEX	
A4-2	A4-5
A4-5	A7-5
A4-23	A7-16
A5-2	
A5-5	
A5-19	
A5-21	
A5-22	
A5-34	

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

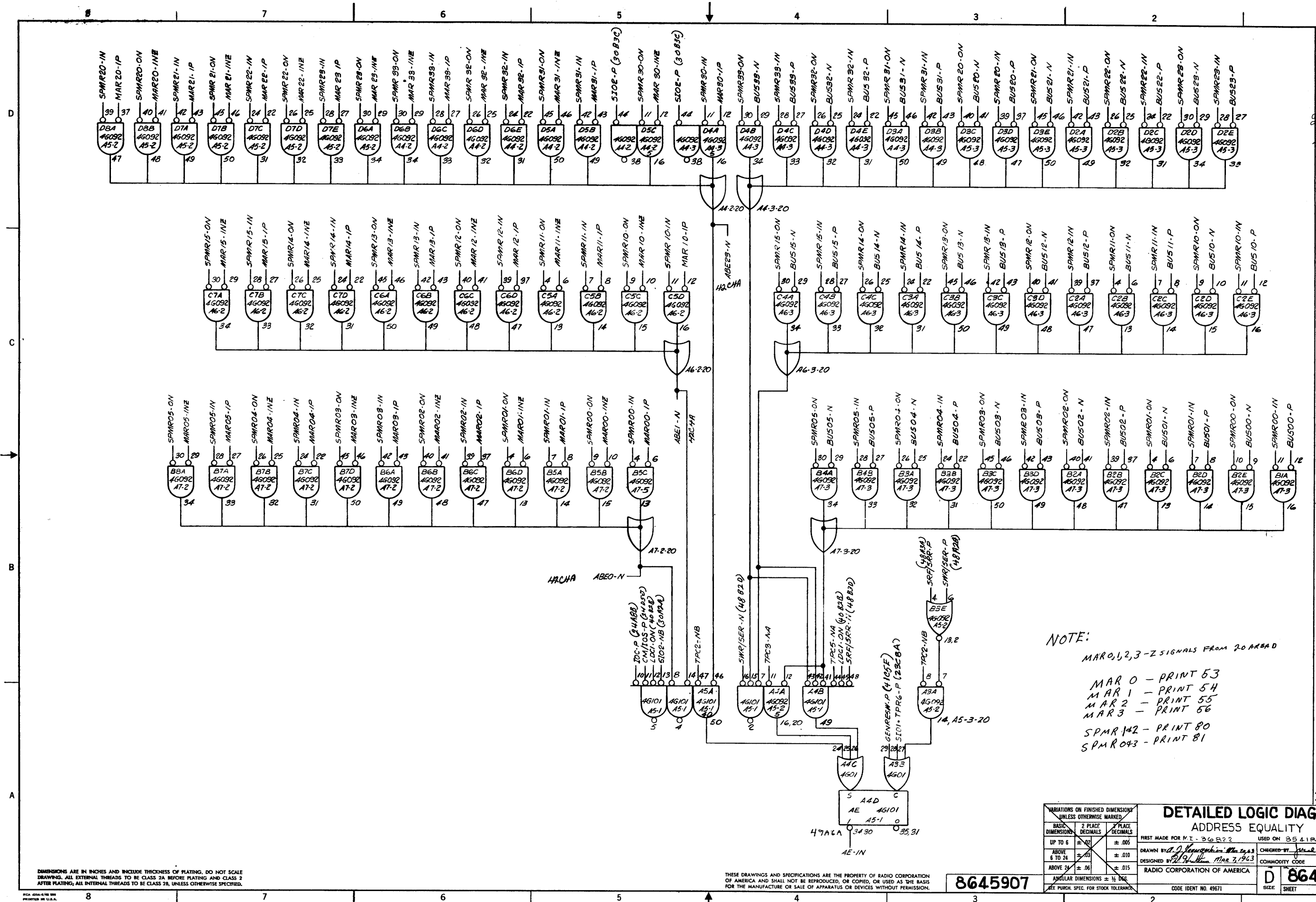
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RADIO CORPORATION OF AMERICA AND SHALL NOT BE REPRODUCED, OR COPIED, OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION.

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		DETAILED LOGIC DIAGRAM		PF
BASIC DIMENSIONS	2 PLACE DECIMALS	2 PLACE DECIMALS	2 PLACE DECIMALS	J8
UP TO 6	± .01	± .005	± .005	JF
ABOVE 6 TO 24	± .015	± .01	± .01	FR
ABOVE 24	± .02	± .015	± .015	
		ANGULAR DIMENSIONS ± 1/2 DEG.		
		SEE PURCH. SPEC. FOR STOCK TOLERANCES.		
FIRST MADE FOR MI-36869			USED ON B54184	
DRAWN BY <i>S. G. Burch</i> <i>March 22, 1963</i>		CHECKED BY <i>June 19, 1963</i>		
DESIGNED BY <i>S. G. Burch</i> <i>March 22, 1963</i>		COMMODITY CODE		
RADIO CORPORATION OF AMERICA				
8645906			D 8645906	
CODE IDENT NO. 49671			SHEET	CONT'D ON SH

8645906

3301

CV



REVISIONS	
AP. BY	J. J. Beach
DATE	June 17, 1963
REVISED	0
Lester C. Bunch	
DESIGNED	10/19/63
APPROVED	10/26/63
DATE	Oct 26, 1963
APPROVED	10/26/63
DATE	Nov 12, 1963
APPROVED	11/12/63
DATE	11/12/63
APPROVED	11/12/63

NOTE:
 MAR0,1,2,3-Z SIGNALS FROM 20 AREA
 MAR 0 - PRINT 53
 MAR 1 - PRINT 54
 MAR 2 - PRINT 55
 MAR 3 - PRINT 56
 SPMR 142 - PRINT 80
 SPMR 043 - PRINT 81

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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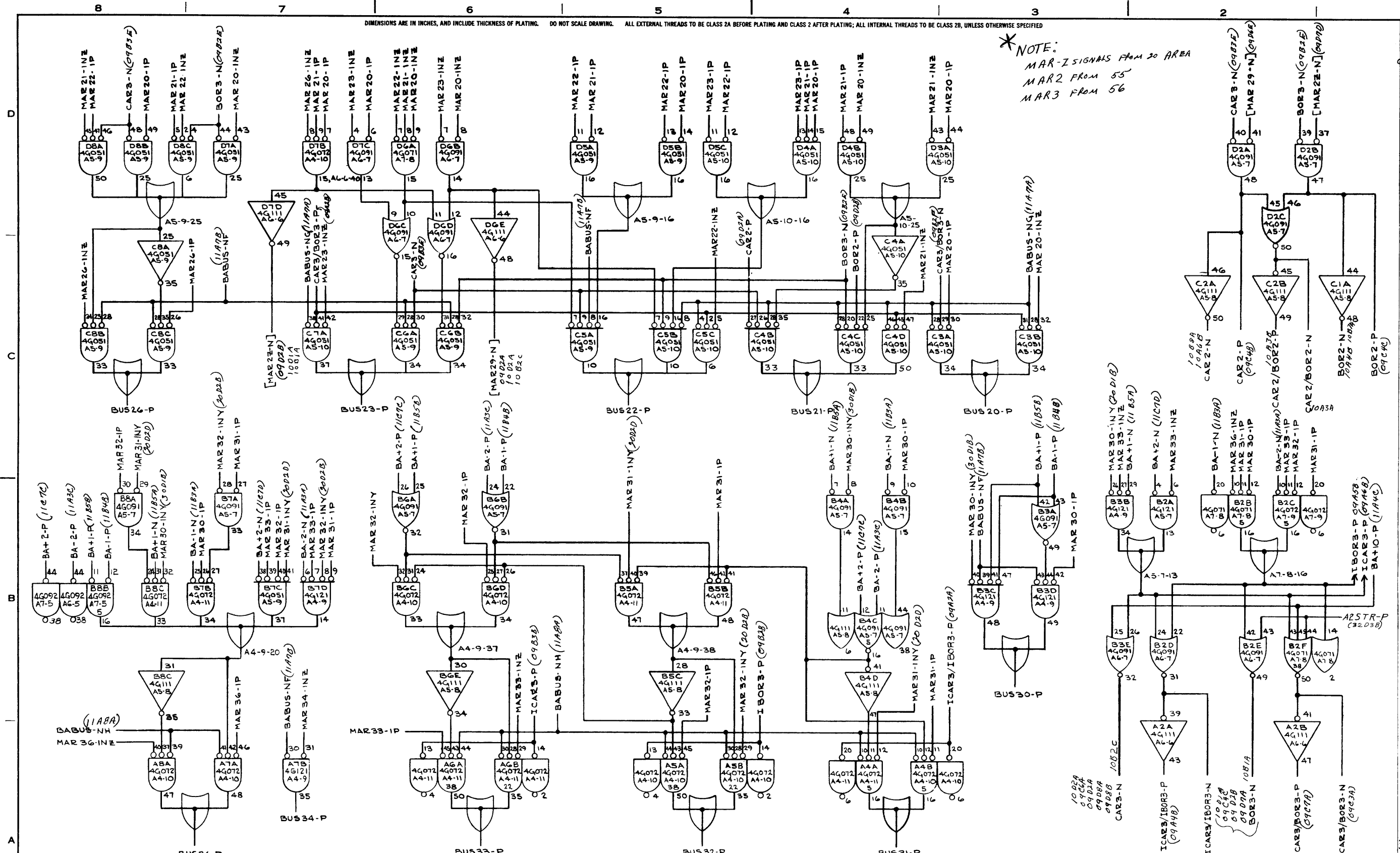
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			DETAILED LOGIC DIAGRAM	
BASIC DIMENSIONS	± PLACE DECIMALS	± PLACE DECIMALS	ADDRESS EQUALITY	
UP TO 6	± .02	± .005	FIRST MADE FOR M.I. 36022	USED ON 8541R46
ABOVE 6 TO 24	± .015	± .010	DRAWN BY J. J. Beach	CHECKED BY Lester C. Bunch
ABOVE 24	± .06	± .015	DESIGNED BY J. J. Beach	DATE: Mar 3, 1963
ANGULAR DIMENSIONS ± 1/2 DEG			RADIO CORPORATION OF AMERICA	
SEE PURCH. SPEC. FOR STOCK TOLERANCES			CODE IDENT NO. 49671	SIZE: D

8645907

3301

12

J.S.
P.F.
146
J.F.
V.F.
V.T.G.
E.P.L.
T.P.
Z.L.S.



REVISIONS	
AP. BY: [Signature]	0
DATE: 12/12/63	
APPROVED: [Signature]	
DATE: 12/12/63	
AT B2E & B2F	
ABSTRA-P ADDED	
ECN 78	
June 1964	12

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			
BASIC DIMENSIONS	3 PLACE DECIMALS	3 PLACE DECIMALS	
UP TO 4	±.005	±.010	
4 TO 16	±.010	±.015	
ABOVE 16	±.015	±.020	
ANGULAR DIMENSIONS	±.010		
SEE PURCH SPEC FOR STOCK TOLERANCE			

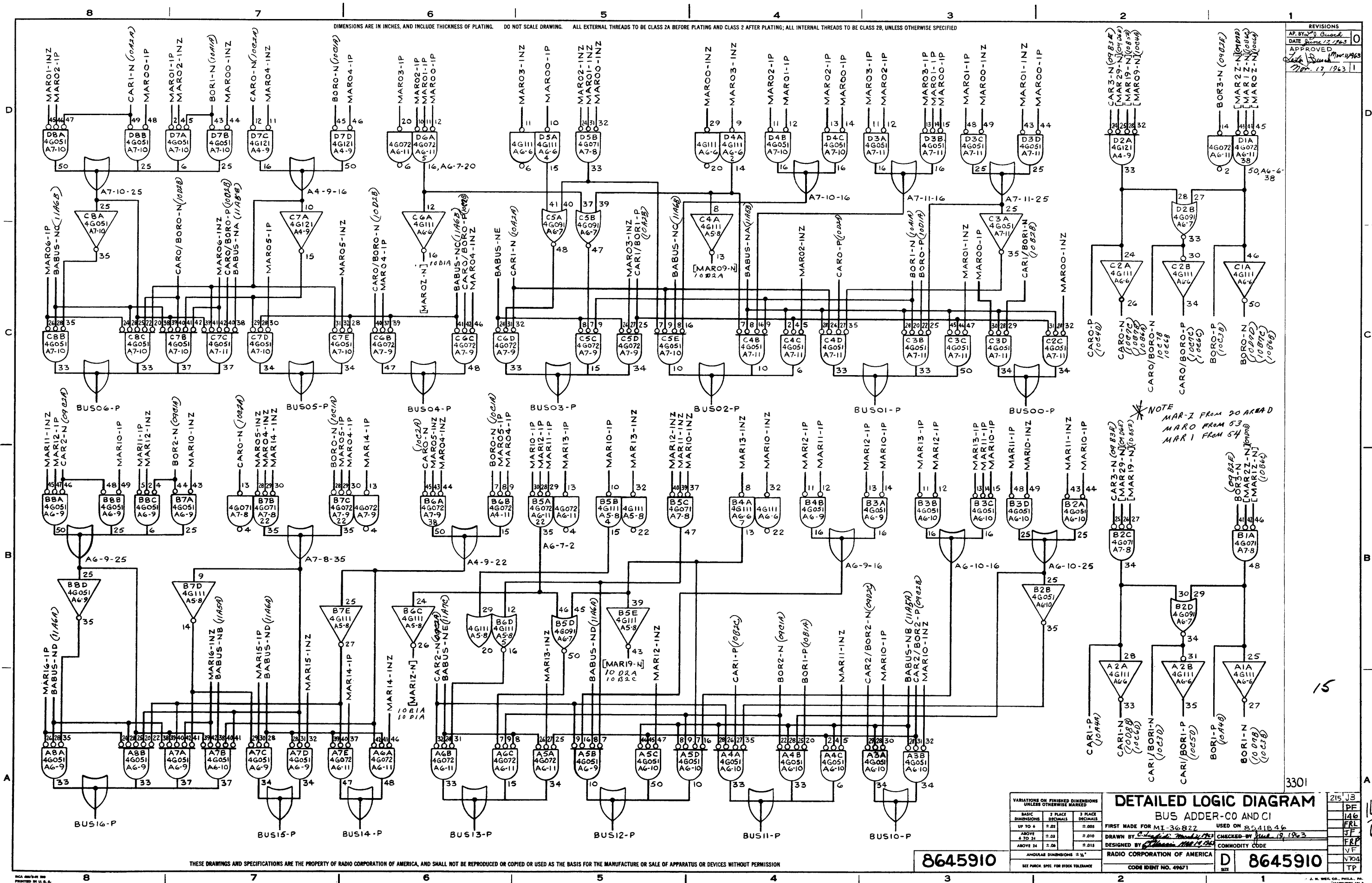
DETAILED LOGIC DIAGRAM	
BUS ADDER-C2 AND C3	
FIRST MADE FOR: N1-36822	USED IN: 8541846
DRAWN BY: [Signature]	CHECKED BY: [Signature]
DESIGNED BY: [Signature]	COMMODITY CODE:
RADIO CORPORATION OF AMERICA	
CODE IDENT NO. 49671	SITE 8645909

8645909

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3301

14



DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED

REVISIONS	
AP. 8/27/53	0
DATE: June 17, 1963	
APPROVED: [Signature]	
DESIGNED BY: [Signature]	
DATE: 12/19/63	

NOTE
 MAR-2 FROM 20 AREA D
 MARO FROM 53
 MAR-1 FROM 54

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 4"	±.02	±.005
ABOVE 4 TO 16"	±.03	±.010
ABOVE 16 TO 36"	±.04	±.015
ANGULAR DIMENSIONS ± 15°		
SEE PURCH. SPEC. FOR STOCK TOLERANCE		

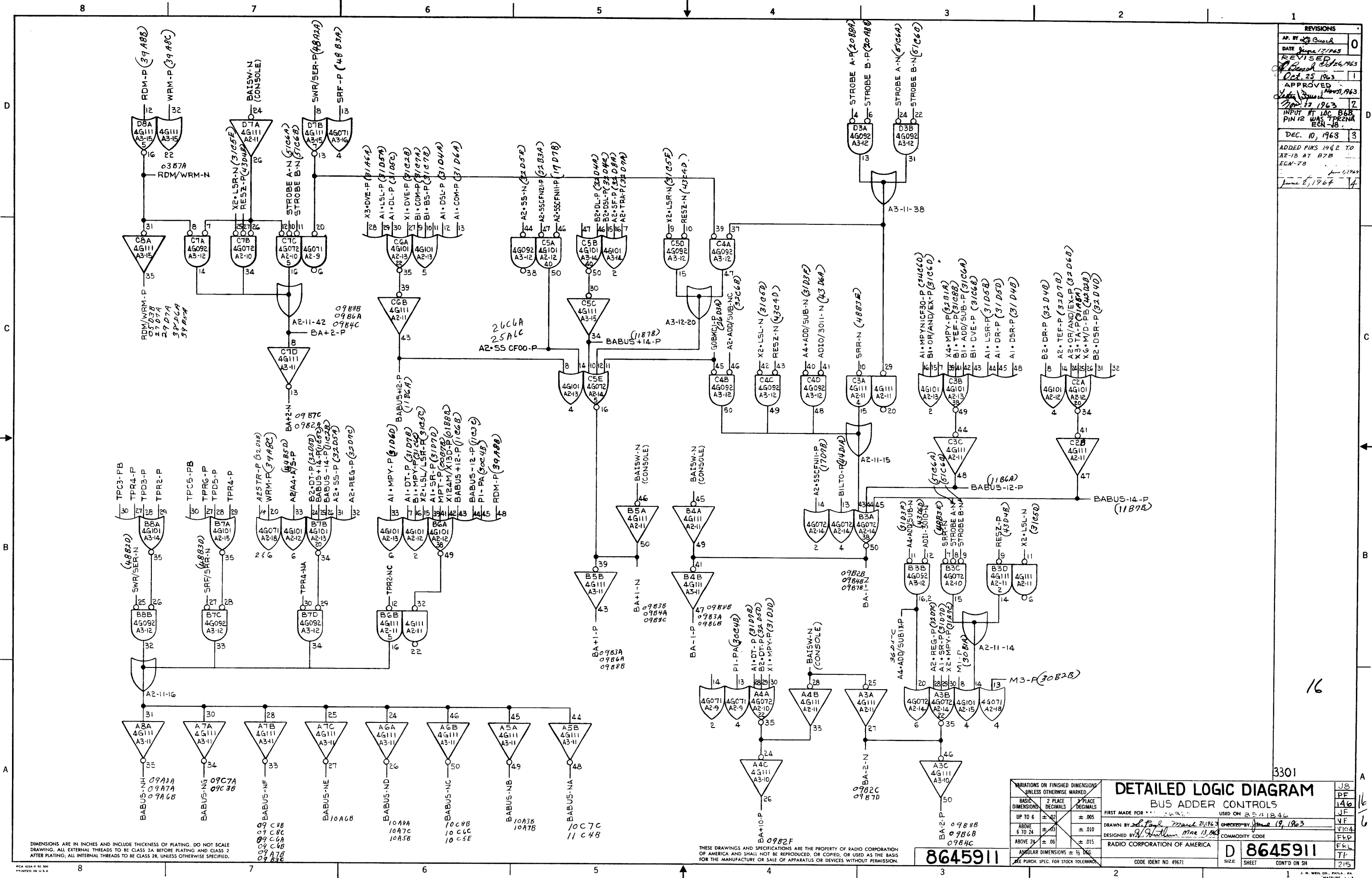
DETAILED LOGIC DIAGRAM		215 JE
BUS ADDER-CO AND CI		146
FIRST MADE FOR MI-36B22	USED ON 8041846	FRL
DESIGNED BY: [Signature]	CHECKED BY: [Signature]	JF
DESIGNED BY: [Signature]	COMMODITY CODE	FRP
RADIO CORPORATION OF AMERICA		V.F.
CODE IDENT NO. 49671	SIZE	V104
		TP

8645910

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15

3301



REVISIONS		
AP. BY	J. J. Busch	0
DATE	June 17, 1963	
REVISED		
APPROVED	Oct 25, 1963	1
APPROVED	Nov 19, 1963	2
APPROVED	Jan 22, 1964	3
APPROVED	June 8, 1964	4

INPUT AT LOC B6B
PIN 12 WAS TPRNA
EON-V8

DEC. 10, 1963

ADDED PINS 1942 TO
A2-18 AT B7B
EON-V8

June 8, 1964

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED

BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	± .02	± .005
ABOVE 6 TO 24	± .03	± .010
ABOVE 24	± .06	± .015

ANGULAR DIMENSIONS ± 1/2 DEG
SEE PURCH. SPEC. FOR STOCK TOLERANCE.

DETAILED LOGIC DIAGRAM
BUS ADDER CONTROLS

FIRST MADE FOR ... USED ON 2541B46

DRAWN BY *John F. ...* 2/19/63 CHECKED BY *James ...* 9/19/63
DESIGNED BY *William ...* Mar 13, 1963 COMMODITY CODE

RADIO CORPORATION OF AMERICA

8645911

SIZE **D** SHEET **215** CONF'D ON SH

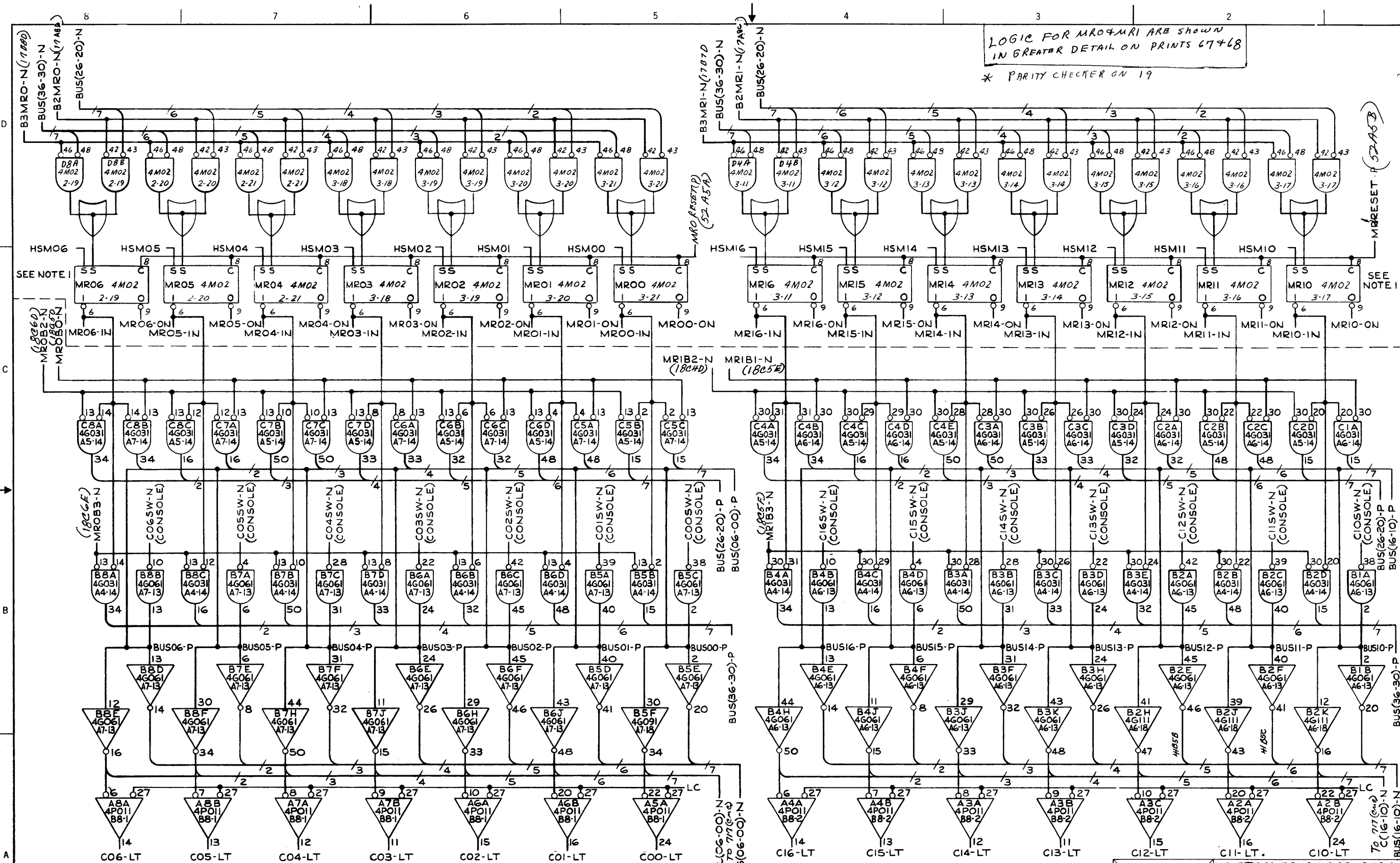
DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8645911

LOGIC FOR MRO&MRI ARE SHOWN
IN GREATER DETAIL ON PRINTS 67+68
* PARITY CHECKER ON 19

REVISIONS	
AP. BY	Busch
DATE	June 17, 1963
APPROVED	W. Busch
	Mar 11, 1963
	Mar 12, 1963
	0
	1



NOTE 1
1. MEMORY REGISTER AND INPUT INTERCHANGE LOGIC IS LOCATED IN THE HIGH SPEED MEMORY SIDE; FOR DETAILS SEE DWGS 8645967 + 8645968

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8645912

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	4 PLACE DECIMALS
UP TO 6	± .02	± .005	± .001
ABOVE 6 TO 24	± .03	± .010	± .005
ABOVE 24	± .06	± .015	± .010
ANGULAR DIMENSIONS	± 15 DEG		
ARE PURCH SPEC. FOR STOCK TOLERANCE.			

DETAILED LOGIC DIAGRAM
MEMORY REGISTER & INTERCHANGE LOGIC

FIRST MADE FOR MI 36812 USED ON 85413-16

DRAWN BY W. Busch, April 17, 1963 CHECKED BY J. Busch, June 19, 1963

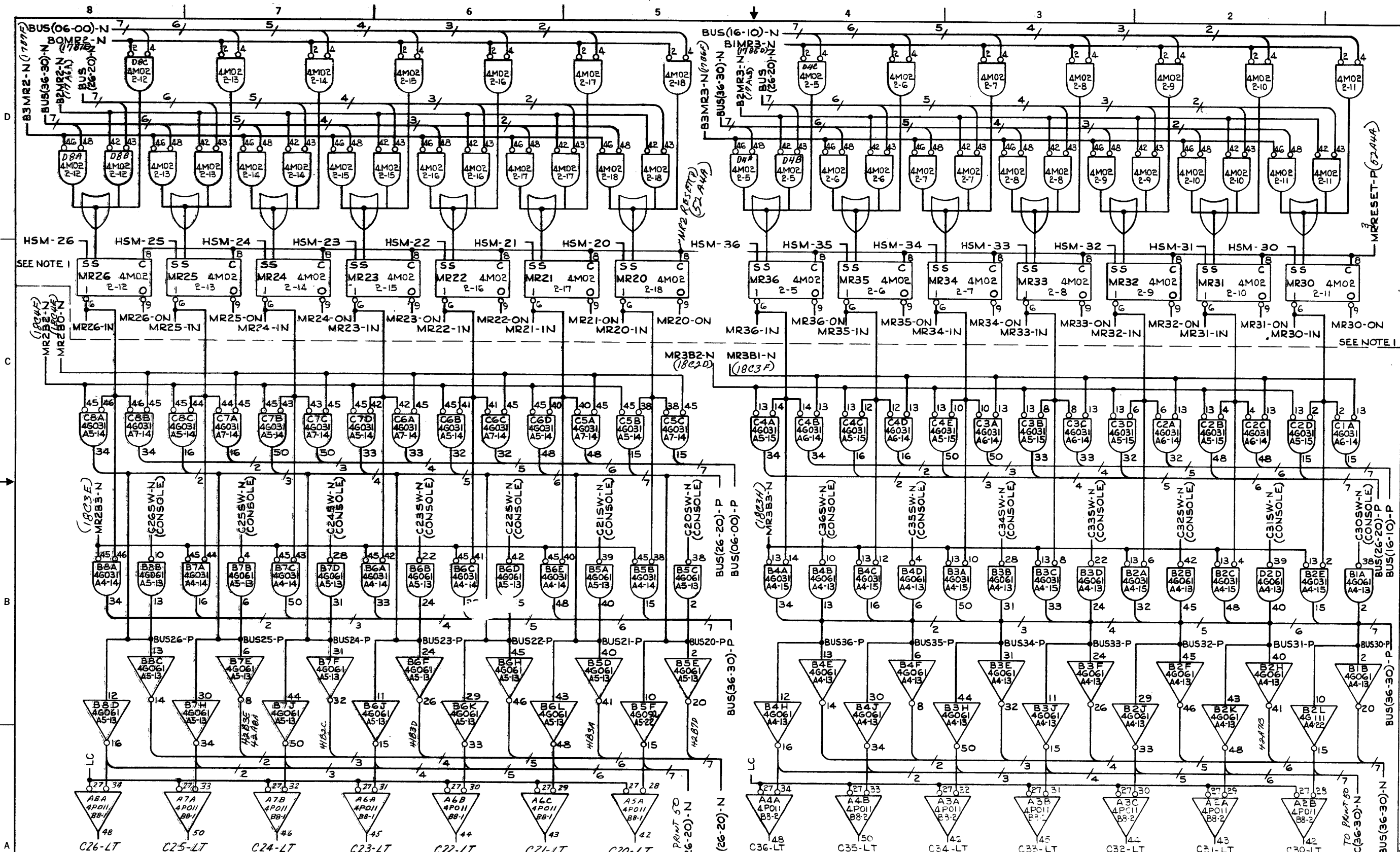
DESIGNED BY W. Busch, Mar. 29, 1963

RADIO CORPORATION OF AMERICA
CAMDEN PLANT

COMMODITY CODE

SIZE SHEET CONT'D ON SH

18
PF
146
FRL
16
17
17
3301



REVISIONS	
No. 8645913	0
DATE June 17, 1963	
APPROVED	
DESIGNED BY	
CHKD BY	
DATE 12, 1963	1
BSF WAs 96191	
25/FEB 65	2

NOTE
 1. MEMORY REGISTER AND INPUT INTERCHANGE LOGIC IS LOCATED IN THE HIGH SPEED MEMORY SIDE; FOR DETAILS SEE DWGS 8645969 & 8645970

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8645913

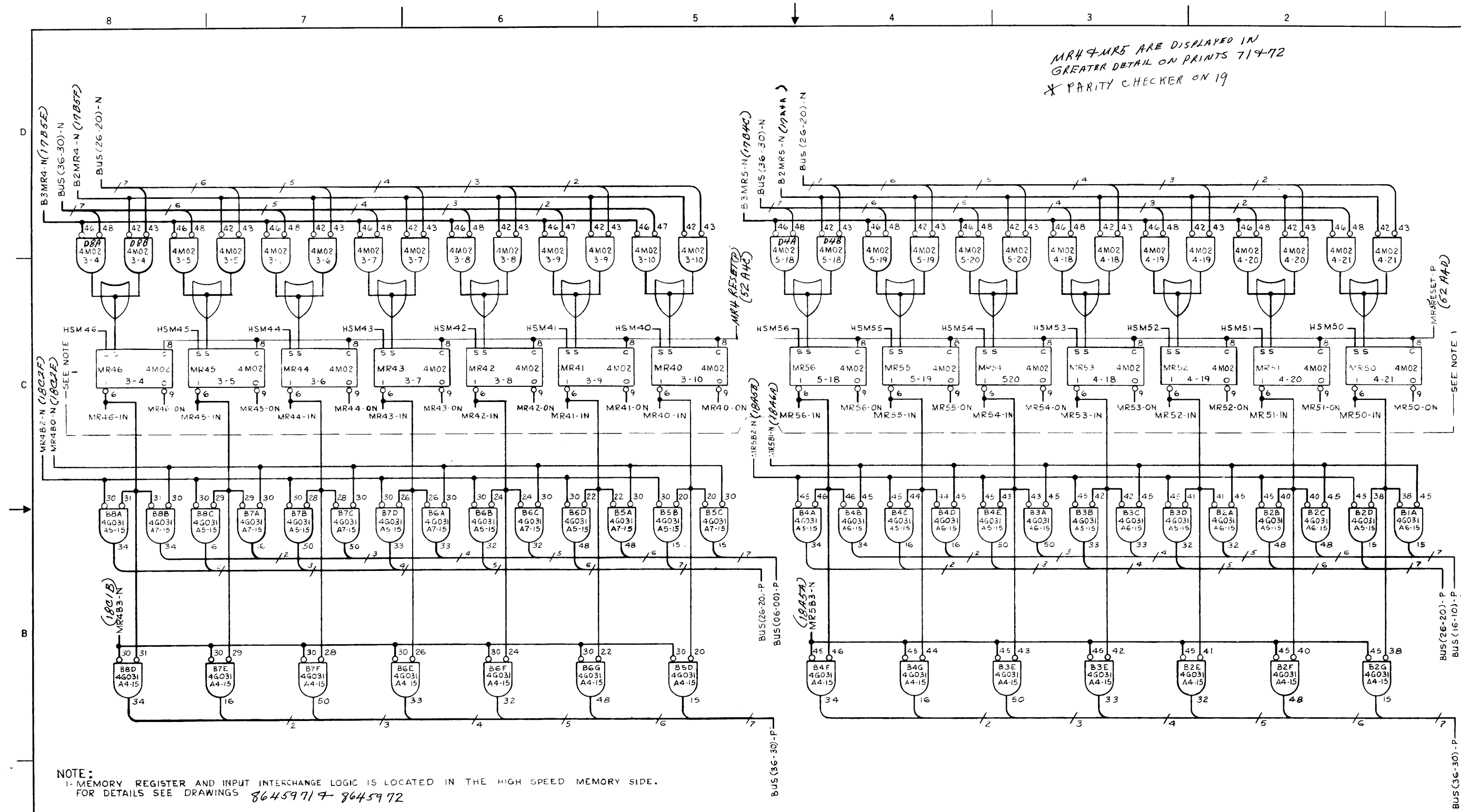
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	± .01	± .005
ABOVE 6 TO 24	± .02	± .010
ABOVE 24	± .06	± .015
ANGULAR DIMENSIONS ± 1/2 DEG		
SEE PURCH SPEC FOR STOCK TOLERANCE		

DETAILED LOGIC DIAGRAM	
MEMORY REGISTER AND INTERCHANGE - C2 AND C3	
FIRST MADE FOR	USED ON P. 1 2 3 4
DRAWN BY	ENGINEERED BY
DESIGNED BY	COMMODITY CODE
RADIO CORPORATION OF AMERICA	
SIZE	SHEET
COND ON SH	

3301
 18
 J8 PF 146 EP 16 VFP VV TP V704 TP 715

MR4 & MR5 ARE DISPLAYED IN
GREATER DETAIL ON PRINTS 71 & 72
* PARITY CHECKER ON 19

REVISIONS	
AP. BY: J. Busch	0
DATE: June 17, 1963	
APPROVED:	
John Busch	1
7/12/1963	



NOTE:
1- MEMORY REGISTER AND INPUT INTERCHANGE LOGIC IS LOCATED IN THE HIGH SPEED MEMORY SIDE.
FOR DETAILS SEE DRAWINGS 8645971 & 8645972

19

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING, ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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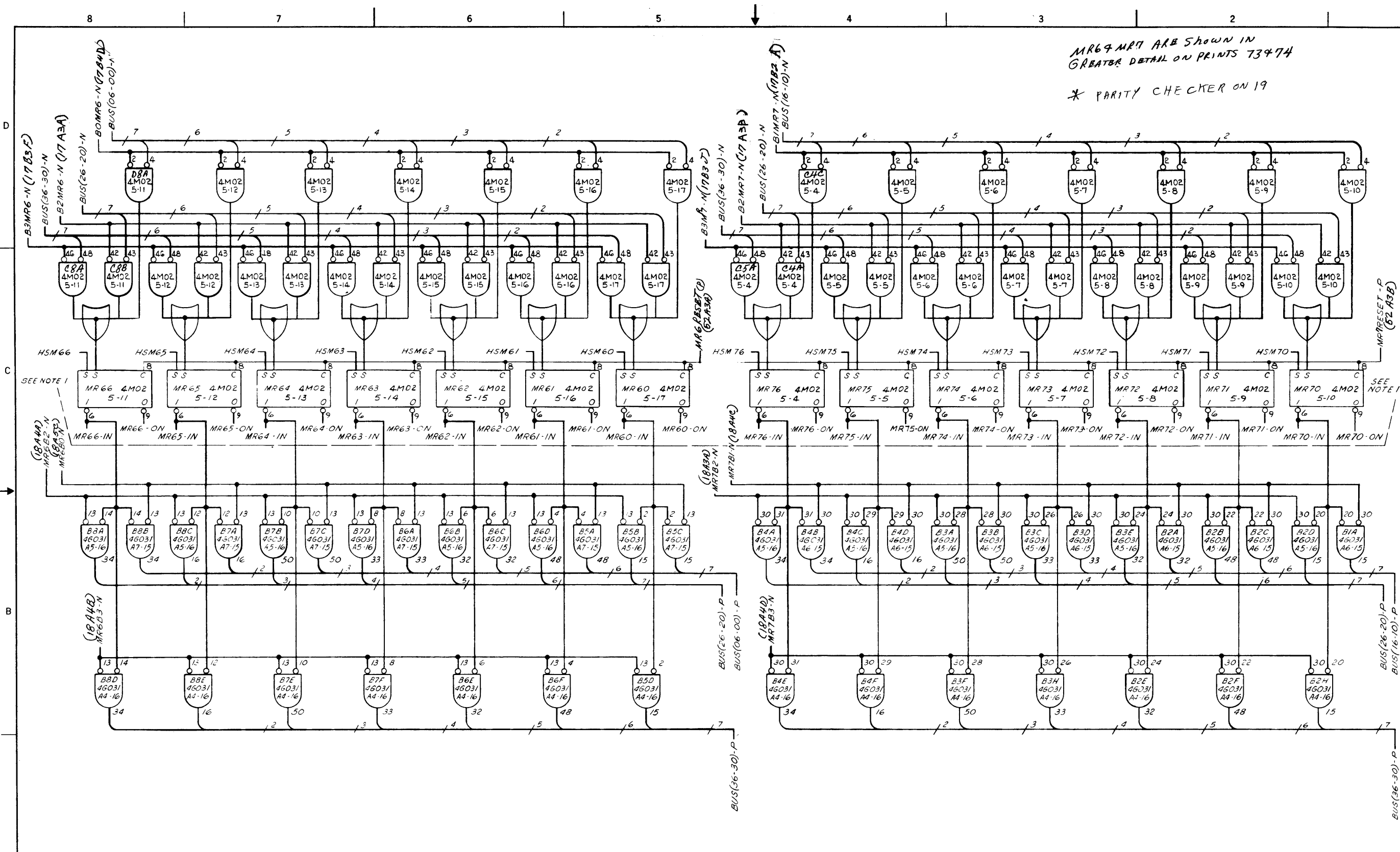
8645914

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		DETAILS LOGIC DIAGRAM	
BASIC DIMENSIONS	± .005	MEMORY REGISTER AND INTERCHANGE	
UP TO 6	± .005	FIRST MADE FOR M.I. 30622	
6 TO 24	± .010	USED ON 8541846	
ABOVE 24	± .015	DRAWN BY: J. Busch	
ANGULAR DIMENSIONS	± .005	DESIGNED BY: J. Busch	
SEE PURCH. SPEC. FOR STOCK TOLERANCES		CHECKED BY: J. Busch	
		RADIO CORPORATION OF AMERICA	
		COMMODITY CODE	
		CODE IDENT NO. 49671	
		SIZE: 8645914	
		SHEET: 16	
		CONT'D ON SH.	

3301

MR64 MR7 ARE SHOWN IN
GREATER DETAIL ON PRINTS 73474
* PARITY CHECKER ON 19

REVISIONS	
AP. BY	0
DATE	June 17, 1963
APPROVED	1
DATE	Mar 4, 1963
APPROVED	1
DATE	Nov. 17, 1963



NOTE 1. MEMORY REGISTER AND INPUT INTERCHANGE LOGIC IS LOCATED IN THE HIGH SPEED MEMORY SIDE FOR DETAILS SEE DWG'S 8645973 + 8645974

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B UNLESS OTHERWISE SPECIFIED.

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8645915

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	4 PLACE DECIMALS
UP TO 6	± .02	± .005	± .001
ABOVE 6 TO 24	± .03	± .010	± .005
ABOVE 24	± .06	± .015	± .010
ANGULAR DIMENSIONS ± 15 DEG			
SEE PURCH SPEC FOR STOCK TOLERANCE			

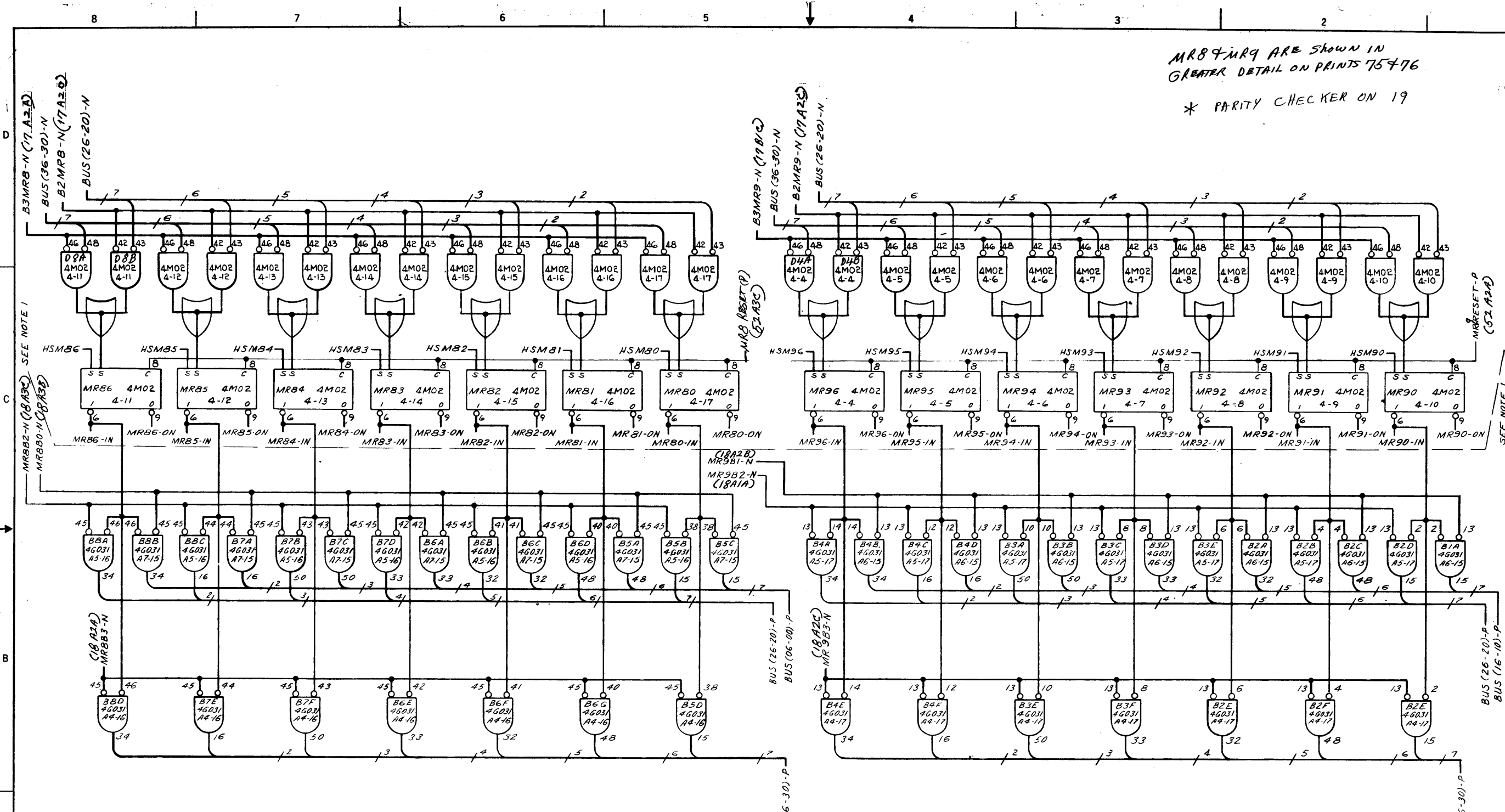
DETAILED LOGIC DIAGRAM	
MEMORY REGISTER AND INTERCHANGE - C6 & C7	J8
FIRST MADE FOR 17-51-222	146
USED ON 8541846	FRL
DRAWN BY <i>E. Stern</i> PER. 19, 1963	IF
DESIGNED BY <i>W. H. H. 29/1963</i>	VF
RADIO CORPORATION OF AMERICA	V704
COMMODITY CODE	TF
CODE IDENT NO 49671	3

20

3301

MR8 & MR9 ARE SHOWN IN
GREATER DETAIL ON PRINTS 75476
* PARITY CHECKER ON 19

REVISIONS	
NO. 02	0
DATE	Jan 11, 1963
APPROVED	[Signature]
DESIGNED BY	Jan 12, 1963



NOTE:
MEMORY REGISTER AND INPUT INTERCHANGE LOGIC IS
LOCATED IN THE HIGH SPEED MEMORY SIDE, FOR
DETAILS SEE DRAWINGS 8645975 & 8645976.

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE
DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2
AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION.

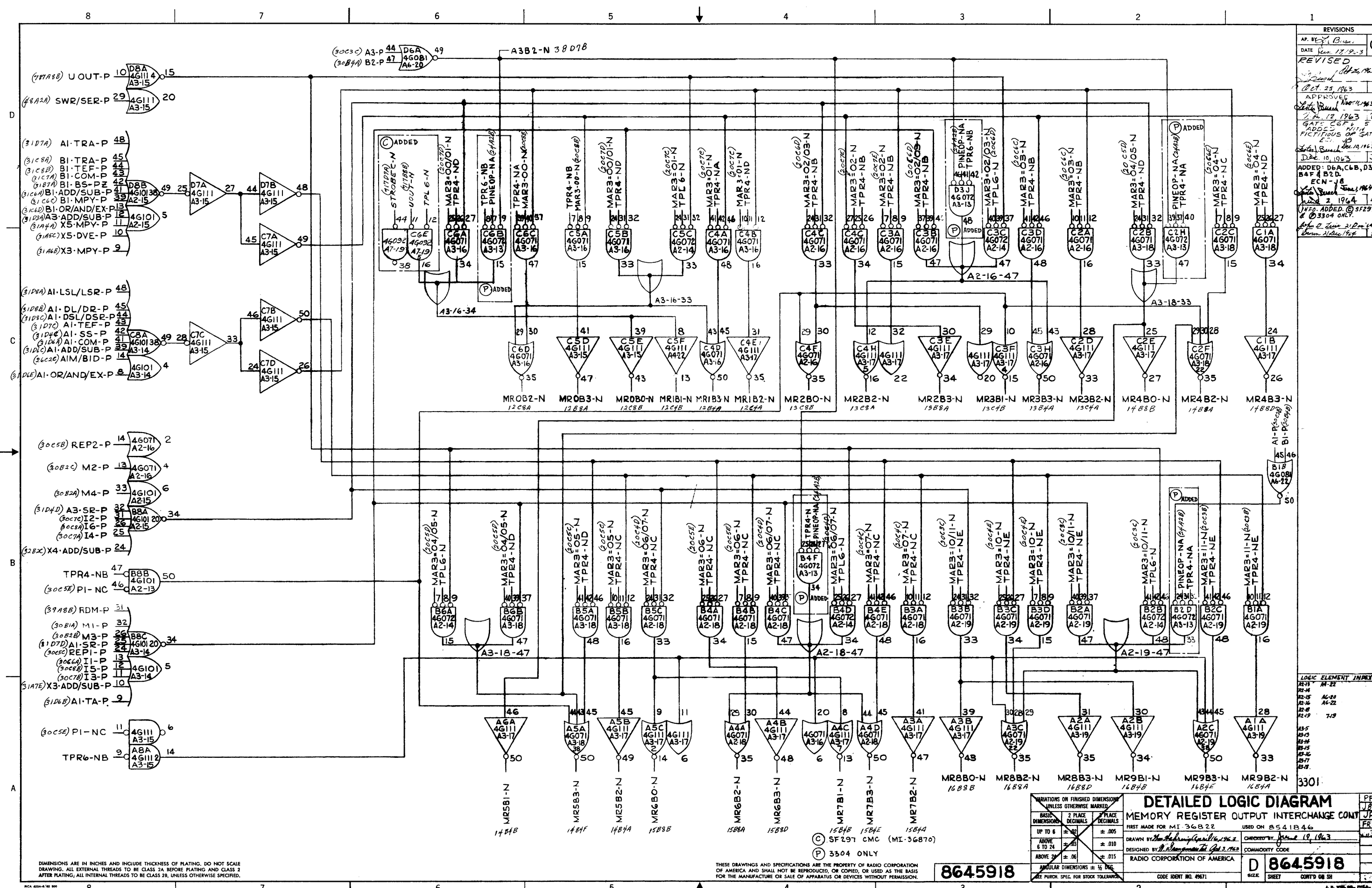
8645916

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED.			
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	4 PLACE DECIMALS
UP TO 6	± .02	± .005	± .001
ABOVE 6 TO 24	± .03	± .010	± .002
ABOVE 24	± .06	± .015	± .003
ANGULAR DIMENSIONS ± .15 DEG			
SEE PURCH. SPEC FOR STOCK TOLERANCES.			

DETAILED LOGIC DIAGRAM	
MEMORY REGISTER AND INTERCHANGE C8 & C9	
FIRST MADE FOR MI-34822	USED ON 8541846
DRAWN BY: [Signature]	CHECKED BY: [Signature]
DESIGNED BY: [Signature]	COMMUNITY CODE
RADIO CORPORATION OF AMERICA	
SIZE	8645916
SHEET	CONT'D ON SH

3301

21



REVISIONS	
AP. BY	0
DATE	Jan 17, 1963
REVISED	
APPROVED	1
DATE	Oct 23, 1963
APPROVED	2
DATE	Dec 12, 1963
APPROVED	3
DATE	Dec 10, 1963
APPROVED	4
DATE	Jan 2, 1964
APPROVED	5
DATE	Jan 21, 1964

ADDED: D6A, C6B, D3J, B4F & B2D.
ECN - JB
ADDED: C5F297 & C3304 ONLY.

LOGIC ELEMENT INDEX	
MR23	MR22
MR24	MR20
MR25	MR22
MR26	MR22
MR27	MR22
MR28	MR22
MR29	MR22
MR30	MR22
MR31	MR22
MR32	MR22
MR33	MR22
MR34	MR22
MR35	MR22
MR36	MR22
MR37	MR22
MR38	MR22
MR39	MR22
MR40	MR22
MR41	MR22
MR42	MR22
MR43	MR22
MR44	MR22
MR45	MR22
MR46	MR22
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MR48	MR22
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MR59	MR22
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MR61	MR22
MR62	MR22
MR63	MR22
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MR88	MR22
MR89	MR22
MR90	MR22
MR91	MR22
MR92	MR22
MR93	MR22
MR94	MR22
MR95	MR22
MR96	MR22
MR97	MR22
MR98	MR22
MR99	MR22
MR100	MR22

DETAILED LOGIC DIAGRAM
MEMORY REGISTER OUTPUT INTERCHANGE CONT.

FIRST MADE FOR MI 36822 USED ON B541846

DRAWN BY: *[Signature]* CHECKED BY: *[Signature]* (19, 1963)

DESIGNED BY: *[Signature]* COMMUNITY CODE

RADIO CORPORATION OF AMERICA

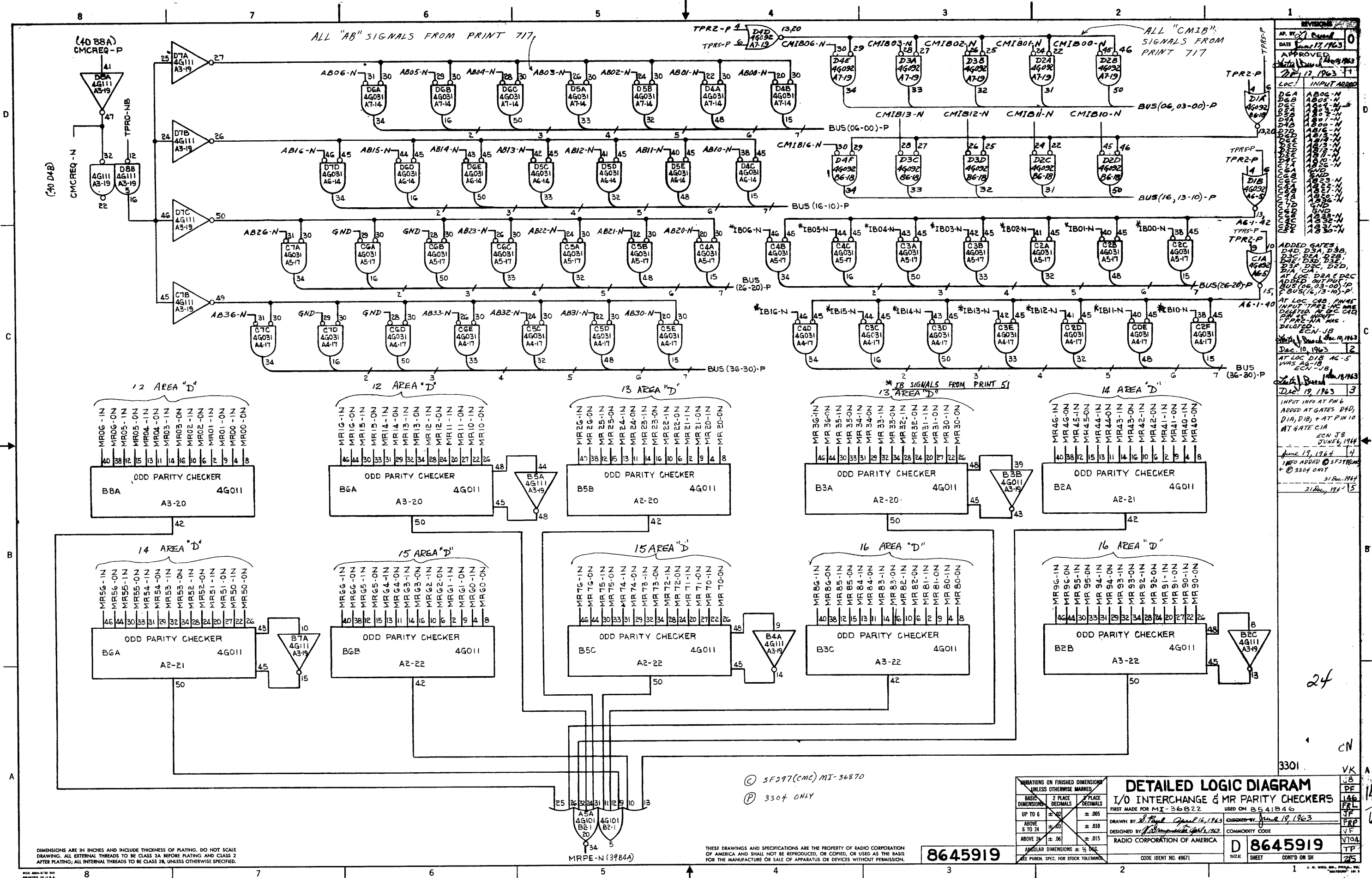
SIZE: **D** SHEET: **8645918** CONT'D ON 31

CODE IDENT NO. 49671

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A, BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8645918



REVISIONS	
NO.	DESCRIPTION
0	APPROVED DATE June 17, 1963
1	APPROVED DATE June 17, 1963
2	APPROVED DATE Dec 10, 1963
3	APPROVED DATE June 19, 1963
4	APPROVED DATE June 17, 1964
5	APPROVED DATE 21 Dec 1964

LOC.	INPUT	ADDED
DCA	AB06-N	
DCB	AB05-N	
DCD	AB04-N	
DCD	AB03-N	
DCD	AB02-N	
DCD	AB01-N	
DCD	AB00-N	
DCD	AB16-N	
DCD	AB15-N	
DCD	AB14-N	
DCD	AB13-N	
DCD	AB12-N	
DCD	AB11-N	
DCD	AB10-N	
DCD	AB26-N	
DCD	AB25-N	
DCD	AB24-N	
DCD	AB23-N	
DCD	AB22-N	
DCD	AB21-N	
DCD	AB20-N	
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DCD	IB11-N	
DCD	IB10-N	
DCD	IB09-N	
DCD	IB08-N	
DCD	IB07-N	
DCD	IB06-N	

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED	
BASIC DIMENSIONS	2 PLACE DECIMALS
UP TO 6	± .005
ABOVE 6 TO 24	± .010
ABOVE 24	± .015
ANGULAR DIMENSIONS ± 1/2 DEG.	
SEE PURCH. SPEC. FOR STOCK TOLERANCES.	

DETAILED LOGIC DIAGRAM	
I/O INTERCHANGE & MR PARITY CHECKERS	
FIRST MADE FOR MI-36822	USED ON 8541846
DRAWN BY <i>[Signature]</i> April 16, 1963	CHECKED BY <i>[Signature]</i> June 19, 1963
DESIGNED BY <i>[Signature]</i> April 16, 1963	COMMUNITY CODE
RADIO CORPORATION OF AMERICA	D 8645919
SIZE SHEET	CONT'D ON SH

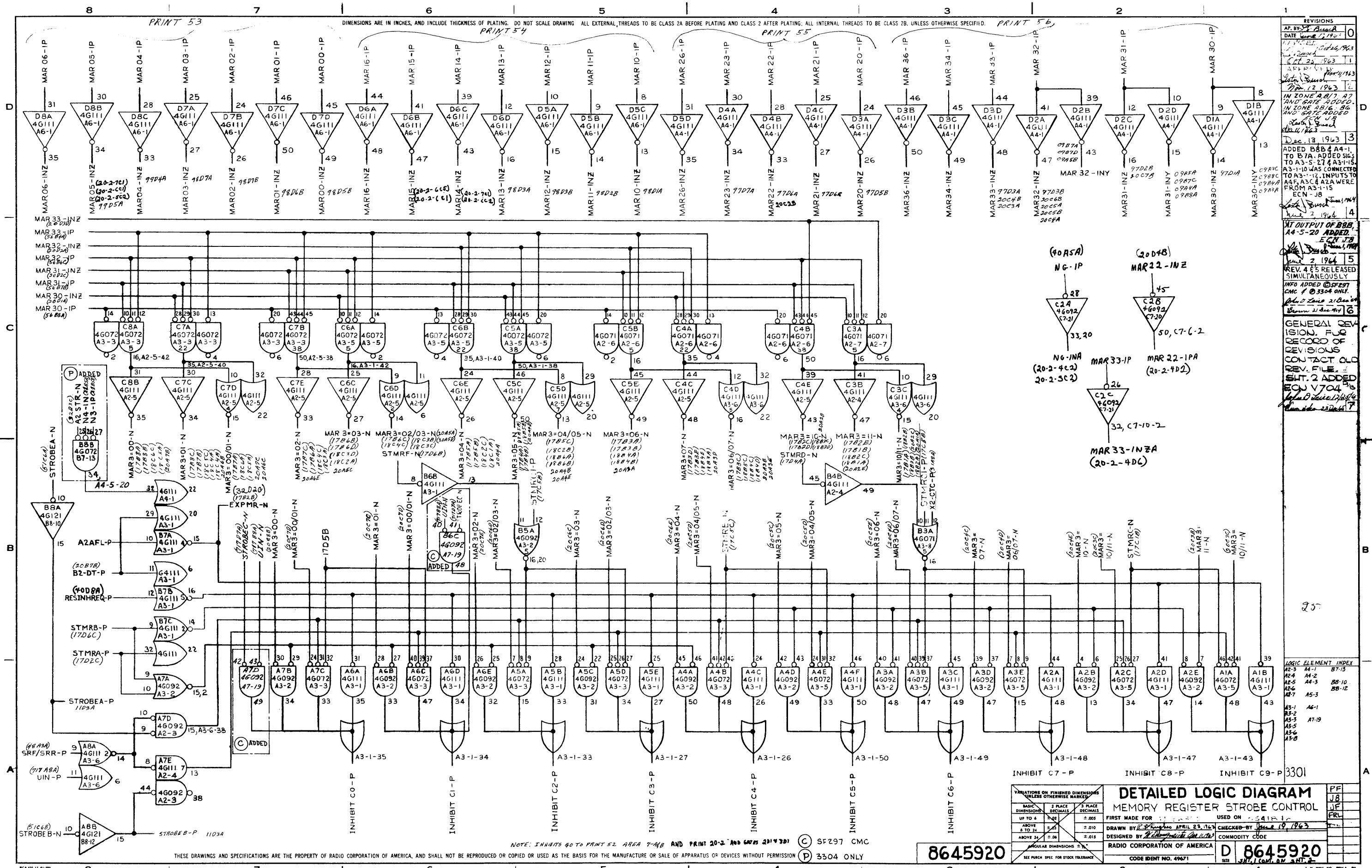
DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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 (P) 3304 ONLY

8645919

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3301
 VK
 JB
 DF
 IAG
 FRP
 VFOA
 TP
 25



REVISIONS	
AP. BY: [Signature]	0
DATE: 1/19/61	
1. IN ZONE A/B 7 A7 AND GATE ADDED.	1
2. IN ZONE B/B 16 AND GATE ADDED.	2
3. IN ZONE A/B 7 A7 AND GATE ADDED.	3
4. IN ZONE A/B 7 A7 AND GATE ADDED.	4
5. REV. 4'S RELEASED SIMULTANEOUSLY.	5
6. INFO ADDED @ SF297 CMC 1 @ 3304 ONLY.	6

GENERAL REVISION. FOR RECORD OF CONTACT. OLD REV. FILE. SMT. 2 ADDED. ECU V704.

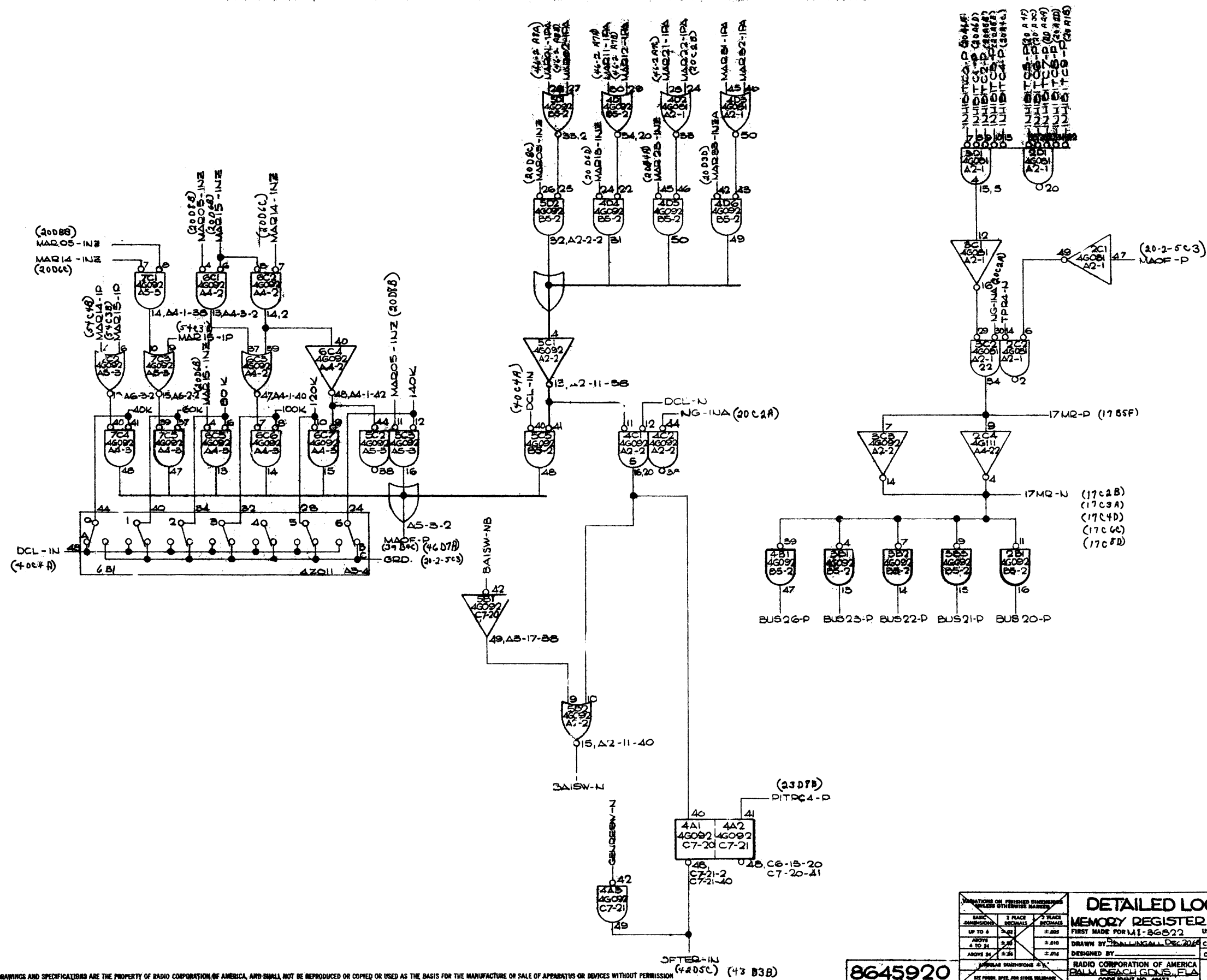
LOGIC ELEMENT INDEX		
A2-3	44-1	B7-15
A2-4	A4-2	B8-10
A2-5	A4-3	B8-12
A2-6	A4-4	
A2-7	A4-5	
A2-8	A4-6	
A2-9	A4-7	
A2-10	A4-8	
A2-11	A4-9	
A2-12	A4-10	
A2-13	A4-11	
A2-14	A4-12	
A2-15	A4-13	
A2-16	A4-14	
A2-17	A4-15	
A2-18	A4-16	
A2-19	A4-17	
A2-20	A4-18	
A2-21	A4-19	
A2-22	A4-20	
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A2-24	A4-22	
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A2-93	A4-91	
A2-94	A4-92	
A2-95	A4-93	
A2-96	A4-94	
A2-97	A4-95	
A2-98	A4-96	
A2-99	A4-97	
A2-100	A4-98	

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		DETAILED LOGIC DIAGRAM MEMORY REGISTER STROBE CONTROL		PF
BASIC DIMENSIONS	± .005	3 PLACE DECIMALS	± .005	JF
UP TO 4	± .01	2 PLACE DECIMALS	± .010	FR
5 TO 24	± .015	1 PLACE DECIMALS	± .015	
25 TO 48	± .02	NO DECIMALS	± .020	
49 TO 96	± .025		± .025	
97 TO 144	± .03		± .030	
145 TO 192	± .04		± .040	
193 TO 240	± .05		± .050	
241 TO 288	± .06		± .060	
289 TO 336	± .08		± .080	
337 TO 384	± .10		± .100	
385 TO 432	± .12		± .120	
433 TO 480	± .15		± .150	
481 TO 528	± .18		± .180	
529 TO 576	± .20		± .200	
577 TO 624	± .25		± .250	
625 TO 672	± .30		± .300	
673 TO 720	± .35		± .350	
721 TO 768	± .40		± .400	
769 TO 816	± .45		± .450	
817 TO 864	± .50		± .500	
865 TO 912	± .55		± .550	
913 TO 960	± .60		± .600	
961 TO 1008	± .65		± .650	
1009 TO 1056	± .70		± .700	
1057 TO 1104	± .75		± .750	
1105 TO 1152	± .80		± .800	
1153 TO 1200	± .85		± .850	
1201 TO 1248	± .90		± .900	
1249 TO 1296	± .95		± .950	
1297 TO 1344	± 1.00		± 1.000	

FIRST MADE FOR [] USED ON []
 DRAWN BY [] APRIL 23, 1963 CHECKED BY []
 DESIGNED BY []
 RADIO CORPORATION OF AMERICA
 CODE IDENT NO. 49671
8645920
 SEE PURCH SPEC FOR STOCK TOLERANCE

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
NO.	DATE
7	12/27/64



8645920

DETAILS ON FINISHED DRAWINGS		DETAILS ON UNFINISHED DRAWINGS	
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	4 PLACE DECIMALS
UP TO 4	±.00	±.005	±.002
4 TO 16	±.01	±.010	±.005
16 TO 32	±.02	±.020	±.010
32 TO 64	±.03	±.030	±.015
64 TO 128	±.04	±.040	±.020
128 TO 256	±.05	±.050	±.025
256 TO 512	±.06	±.060	±.030
512 TO 1024	±.07	±.070	±.035
1024 TO 2048	±.08	±.080	±.040
2048 TO 4096	±.09	±.090	±.045
4096 TO 8192	±.10	±.100	±.050
8192 TO 16384	±.12	±.120	±.060
16384 TO 32768	±.15	±.150	±.075
32768 TO 65536	±.20	±.200	±.090
65536 TO 131072	±.25	±.250	±.110
131072 TO 262144	±.30	±.300	±.130
262144 TO 524288	±.35	±.350	±.150
524288 TO 1048576	±.40	±.400	±.170
1048576 TO 2097152	±.45	±.450	±.190
2097152 TO 4194304	±.50	±.500	±.210
4194304 TO 8388608	±.55	±.550	±.230
8388608 TO 16777216	±.60	±.600	±.250
16777216 TO 33554432	±.65	±.650	±.270
33554432 TO 67108864	±.70	±.700	±.290
67108864 TO 134217728	±.75	±.750	±.310
134217728 TO 268435456	±.80	±.800	±.330
268435456 TO 536870912	±.85	±.850	±.350
536870912 TO 1073741824	±.90	±.900	±.370
1073741824 TO 2147483648	±.95	±.950	±.390
2147483648 TO 4294967296	±.100	±.1000	±.410

DETAILED LOGIC DIAGRAM
MEMORY REGISTER STROBE CONTROL

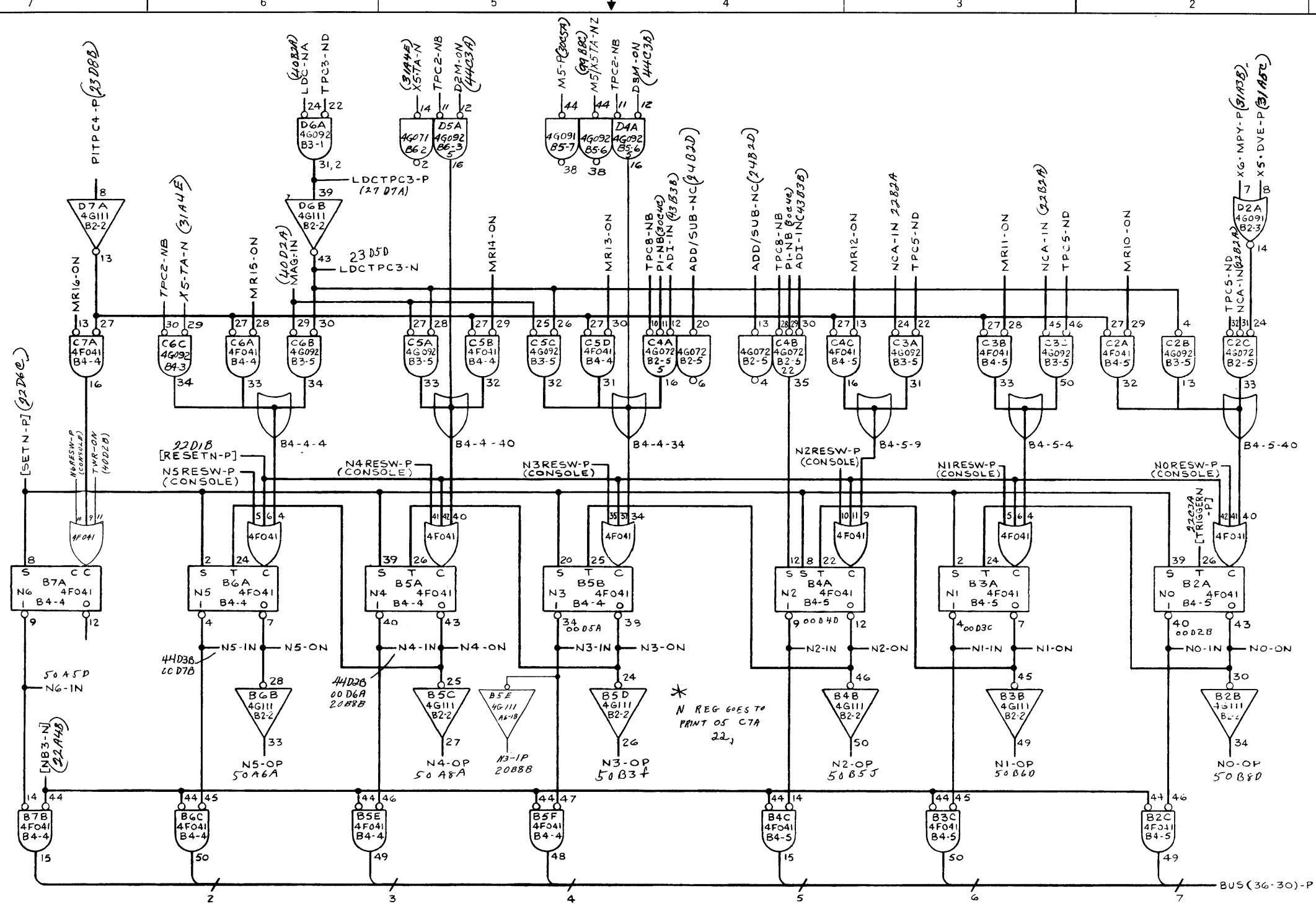
FIRST MADE FOR MIL-26822 USED ON 8541846
 DRAWN BY: HALLINGALL DEC 20 1964 CHECKED BY:
 DESIGNED BY: COMMODITY CODE
 RADIO CORPORATION OF AMERICA
 PALM BEACH GUNS, FLA
 CODE IDENT NO. 49471

DF
 JB
 UP
 FRL

8645920
 SH-2 CONTR. ON FILE

LOGIC ELEMENT INDEX		
A2-1	A4-1	B5-2
A2-2	A4-2	B7-13
A2-3	A4-3	
A2-4		B8-10
A2-5		B8-12
A2-6	AS-3	
A2-7		
AS-1	A6-1	
A3-2		
A3-3	A7-19	
A3-5		C7-21
A3-6		
A3-8		

NOTE: MRI SIGNALS
FROM PRINT 12 ARBAC



REVISIONS	
AP. BY: <i>C. Buech</i>	0
DATE: <i>June 17, 1963</i>	
REVISION: <i>15E</i>	1
DATE: <i>Aug 19, 1963</i>	
REVISION: <i>15F</i>	2
DATE: <i>Oct 25, 1963</i>	
REVISION: <i>15G</i>	3
DATE: <i>Nov 11, 1963</i>	
REVISION: <i>15H</i>	4
DATE: <i>June 2, 1964</i>	
REVISION: <i>15I</i>	5
DATE: <i>June 11, 1964</i>	
REVISION: <i>15J</i>	6
DATE: <i>June 11, 1964</i>	
REVISION: <i>15K</i>	7
DATE: <i>June 11, 1964</i>	

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			
BASIC DIMENSIONS	2 PLACE DECIMALS	2 PLACE DECIMALS	2 PLACE DECIMALS
UP TO 6	± .02	± .005	± .005
ABOVE 6 TO 24	± .03	± .010	± .010
ABOVE 24	± .06	± .015	± .015
ANGULAR DIMENSIONS	± 1/2 DEG		
SEE PURCH. SPEC. FOR STOCK TOLERANCES			

DETAILED LOGIC DIAGRAM	
"N" REGISTER	
FIRST MADE FOR <i>ITT 30000</i>	USED ON <i>30000</i>
DRAWN BY: <i>C. Buech</i>	CHECKED BY: <i>June 19, 1963</i>
DESIGNED BY: <i>2/17/63</i>	DATE: <i>Mar 25, 1963</i>
RADIO CORPORATION OF AMERICA	COMMODITY CODE
8645921	D 8645921
SIZE: SHEET	CONT'D ON SH 215

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8645921

3301

26

8 7 6 5 4 3 2 1

D

C

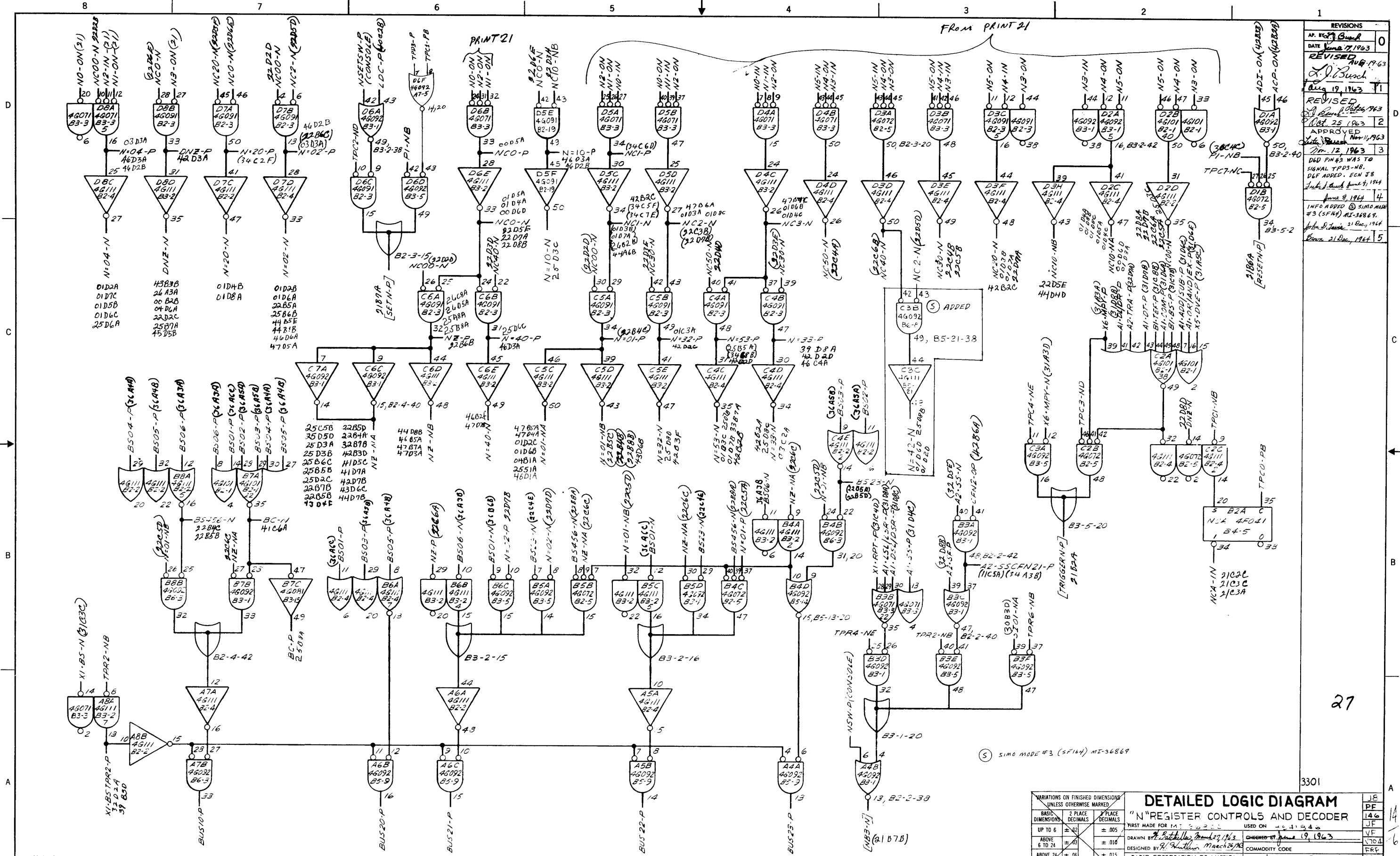
B

A

8 7 6 5 4 3 2 1

J= PF 146 JF 1704 FR 215 TP 215

J. M. WELLS CO., PHILA., PA. "MAYFLOR" 101-3



REVISIONS	
AP. NO. 1	0
DATE	June 17, 1963
REVISED	Aug 19, 1963
DESIGNED BY	R. J. Smith
APPROVED	Nov 11, 1963
DATE	Nov 11, 1963
DESIGNED BY	R. J. Smith
APPROVED	Jan 12, 1964
DATE	Jan 12, 1964
DESIGNED BY	R. J. Smith
APPROVED	June 9, 1964
DATE	June 9, 1964
DESIGNED BY	R. J. Smith
APPROVED	June 21, 1964
DATE	June 21, 1964

DDO PIN 43 WAS TO SIGNAL TPRS-NB. DLF ADDED. EGN 38. J. Smith, June 4, 1964. INFO ADDED @ SIMO MODE #3 (SF164) MI-36869. J. Smith, June 21, 1964.

27

3301

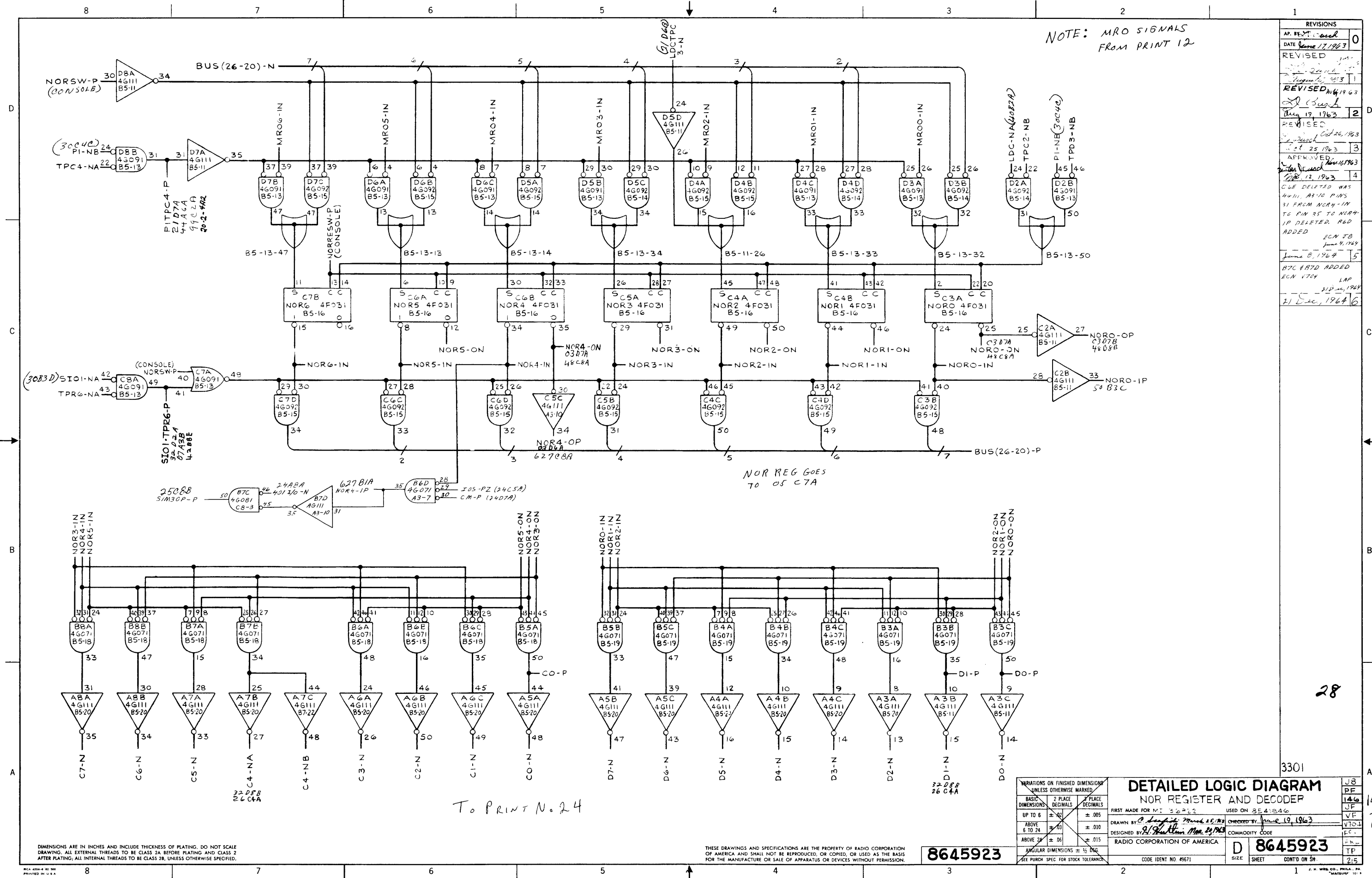
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			
BASIC DIMENSION	2 PLACE DECIMALS	3 PLACE DECIMALS	4 PLACE DECIMALS
UP TO 6	± .02	± .005	± .001
ABOVE 6 TO 24	± .03	± .010	± .002
ABOVE 24	± .06	± .015	± .003

DETAILED LOGIC DIAGRAM	
"N" REGISTER CONTROLS AND DECODER	
FIRST MADE FOR	MI-36869
USED ON	41-151-13A-23 (D80)
DESIGNED BY	R. J. Smith, March 27, 1963
CHECKED BY	June 19, 1963
DESIGNED BY	R. J. Smith, March 27, 1963
COMMUNITY CODE	
RADIO CORPORATION OF AMERICA	
SIZE	D
SHEET	8645922
CODE (IDENT NO. 4967)	
CONT'D ON SH	

8645922

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NOTE: MRO SIGNALS FROM PRINT 12

REVISIONS	
AP. BY <i>mech</i>	0
DATE <i>June 17, 1963</i>	
REVISED	
<i>Aug 19, 1963</i>	1
<i>Nov 19, 1963</i>	2
<i>Jan 25, 1964</i>	3
<i>Mar 12, 1963</i>	4
<i>June 5, 1964</i>	5
<i>July 1, 1964</i>	6

NOR REG GOES TO OS C7A

28

3301

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

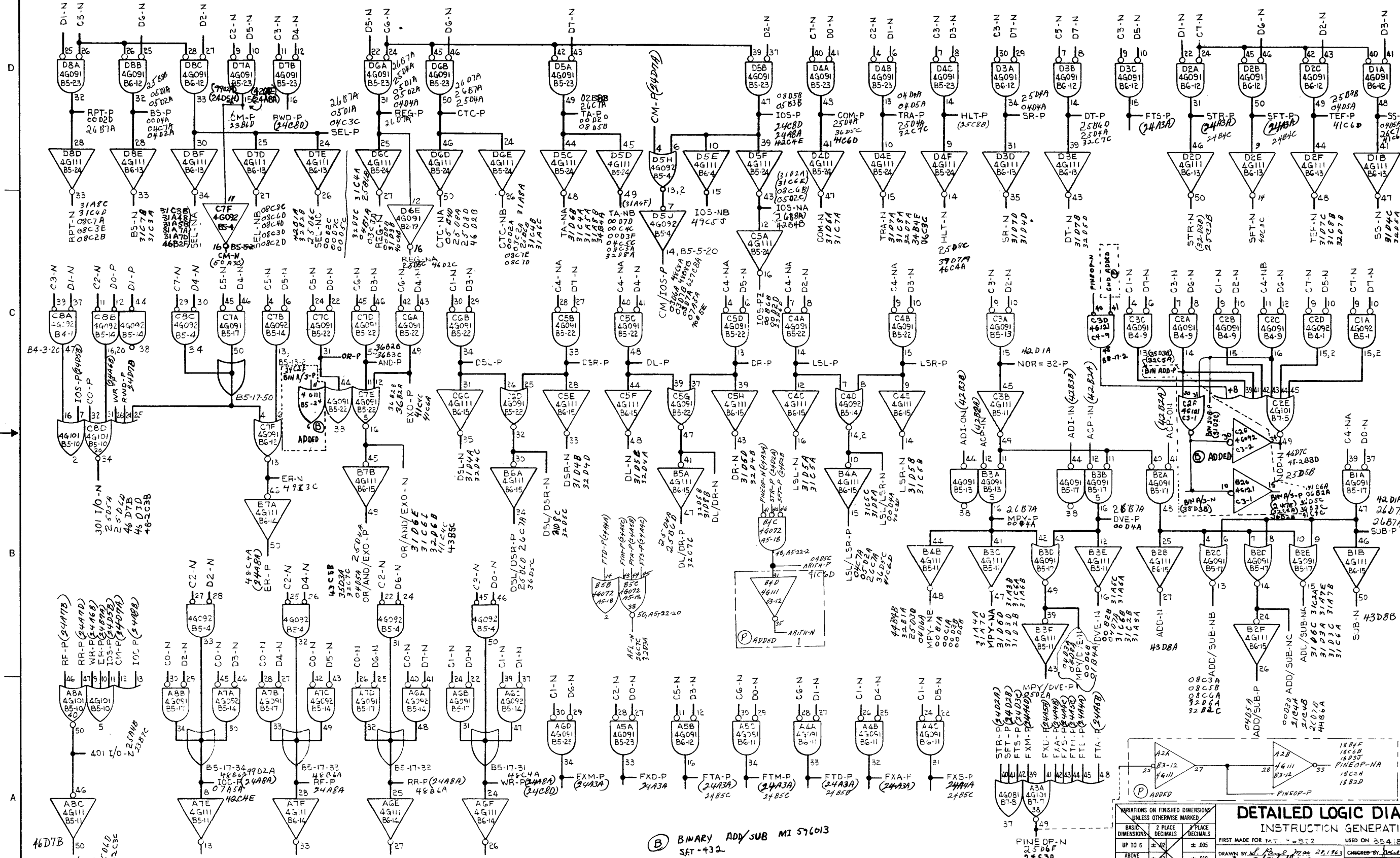
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8645923

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	4 PLACE DECIMALS
UP TO 6	± .02	± .005	
6 TO 24	± .03	± .010	
ABOVE 24	± .06	± .015	
ANGULAR DIMENSIONS ± 1/2 DEG			
SEE PURCH SPEC FOR STOCK TOLERANCE.			

DETAILED LOGIC DIAGRAM	
NOR REGISTER AND DECODER	
FIRST MADE FOR MI 3622	USED ON 3541246
DRAWN BY <i>C. Long</i> March 15, 1963	CHECKED BY <i>June 19, 1963</i>
DESIGNED BY <i>R. Sullivan</i> March 29, 1963	COMMODITY CODE
RADIO CORPORATION OF AMERICA	CODE IDENT NO 49671
SIZE	SHEET
D	8645923
CONTO ON 5H.	CONT'D ON 5H.

NOTE: ALL C & D SIGNALS FROM PRINT 23



REVISIONS	
AP. BY: <i>[Signature]</i>	0
DATE: June 17, 1963	
REVISED	
<i>[Signature]</i>	1
REVISED	
<i>[Signature]</i>	2
REVISED	
<i>[Signature]</i>	3
REVISED & APPROVED	
<i>[Signature]</i>	4
IN ZONE C/D, 6/7 C75 AMP ADDED, AT D6E AMP PIN #16 ADDED, ECN J8	5
DEC 13, 1963	
ADD. D2E, A41, A5D, A5E, A5F, A4D, A41F, A4F DELETED, B5D, B5C, B4C, B4D, A2A, A2B ADDED, ECN J8	6
JUNE 2, 1964	
LOC D2E ADDED AT ZONE A/2. PINOP-P ADDED. ECN J8	7
JUNE 2, 1964	
REV. 677 RELEASED SIMULTANEOUSLY. INFO ADDED P 3304 ONLY. JULY 2, 1964. 2189, 1944 JUNE 21, 1964. 1241	8
ADDED C3D ECN V704	
JUNE 1, 1965	9
ADDED B2C, C2F C2G & 4611 AT C7E ADDED NOTE	10
JUNE 1, 1965	

29

DETAILED LOGIC DIAGRAM
INSTRUCTION GENERATION

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		FIRST MADE FOR MI-30822		USED ON 3541846	
BASIC DIMENSIONS	2 PLACE DECIMALS	2 PLACE DECIMALS	± .005	2 PLACE DECIMALS	± .010
UP TO 6"	± .02	6 TO 24"	± .03	24 TO 48"	± .05
ANGULAR DIMENSIONS	± 1/2 DEG	SEE PURCH. SPEC. FOR STOCK TOLERANCE			

DESIGNED BY: *[Signature]* DATE: 21, 1963
DRAWN BY: *[Signature]* DATE: 19, 1963
CHECKED BY: *[Signature]* DATE: 19, 1963
DESIGNED BY: *[Signature]* DATE: 21, 1963
RADIO CORPORATION OF AMERICA

COMMUNITY CODE: **8645924**

CODE IDENT NO 45671

SIZE: SHEET CONT'D ON SH

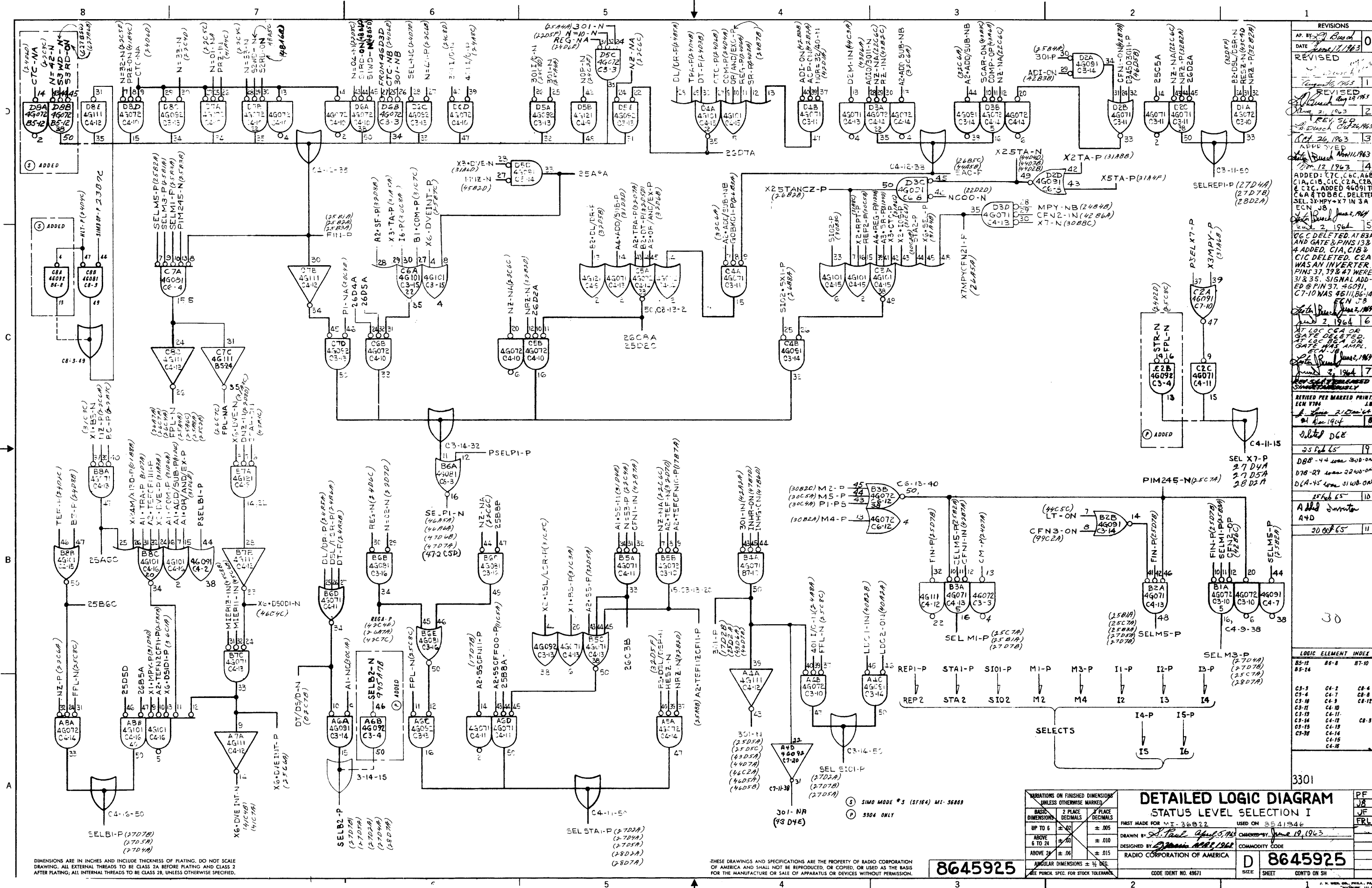
(B) BINARY ADD/SUB MI 576013
SFT-432

(P) 3304 ONLY

8645924

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REVISIONS	
AP. BY: [Signature]	0
DATE: 1/17/63	REVISED
[Signature]	1
[Signature]	2
[Signature]	3
[Signature]	4
[Signature]	5
[Signature]	6
[Signature]	7
[Signature]	8

ADDED: CTC, C6C, A6B, C1A, C1B, C1C, C2A, C2B, C2C. C5C, C5D, C5E, C5F, C5G, C5H, C5I, C5J, C5K, C5L, C5M, C5N, C5O, C5P, C5Q, C5R, C5S, C5T, C5U, C5V, C5W, C5X, C5Y, C5Z. C6A, C6B, C6C, C6D, C6E, C6F, C6G, C6H, C6I, C6J, C6K, C6L, C6M, C6N, C6O, C6P, C6Q, C6R, C6S, C6T, C6U, C6V, C6W, C6X, C6Y, C6Z. C7A, C7B, C7C, C7D, C7E, C7F, C7G, C7H, C7I, C7J, C7K, C7L, C7M, C7N, C7O, C7P, C7Q, C7R, C7S, C7T, C7U, C7V, C7W, C7X, C7Y, C7Z. C8A, C8B, C8C, C8D, C8E, C8F, C8G, C8H, C8I, C8J, C8K, C8L, C8M, C8N, C8O, C8P, C8Q, C8R, C8S, C8T, C8U, C8V, C8W, C8X, C8Y, C8Z. C9A, C9B, C9C, C9D, C9E, C9F, C9G, C9H, C9I, C9J, C9K, C9L, C9M, C9N, C9O, C9P, C9Q, C9R, C9S, C9T, C9U, C9V, C9W, C9X, C9Y, C9Z. C10A, C10B, C10C, C10D, C10E, C10F, C10G, C10H, C10I, C10J, C10K, C10L, C10M, C10N, C10O, C10P, C10Q, C10R, C10S, C10T, C10U, C10V, C10W, C10X, C10Y, C10Z. 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C17A, C17B, C17C, C17D, C17E, C17F, C17G, C17H, C17I, C17J, C17K, C17L, C17M, C17N, C17O, C17P, C17Q, C17R, C17S, C17T, C17U, C17V, C17W, C17X, C17Y, C17Z. C18A, C18B, C18C, C18D, C18E, C18F, C18G, C18H, C18I, C18J, C18K, C18L, C18M, C18N, C18O, C18P, C18Q, C18R, C18S, C18T, C18U, C18V, C18W, C18X, C18Y, C18Z. C19A, C19B, C19C, C19D, C19E, C19F, C19G, C19H, C19I, C19J, C19K, C19L, C19M, C19N, C19O, C19P, C19Q, C19R, C19S, C19T, C19U, C19V, C19W, C19X, C19Y, C19Z. C20A, C20B, C20C, C20D, C20E, C20F, C20G, C20H, C20I, C20J, C20K, C20L, C20M, C20N, C20O, C20P, C20Q, C20R, C20S, C20T, C20U, C20V, C20W, C20X, C20Y, C20Z. C21A, C21B, C21C, C21D, C21E, C21F, C21G, C21H, C21I, C21J, C21K, C21L, C21M, C21N, C21O, C21P, C21Q, C21R, C21S, C21T, C21U, C21V, C21W, C21X, C21Y, C21Z. C22A, C22B, C22C, C22D, C22E, C22F, C22G, C22H, C22I, C22J, C22K, C22L, C22M, C22N, C22O, C22P, C22Q, C22R, C22S, C22T, C22U, C22V, C22W, C22X, C22Y, C22Z. C23A, C23B, C23C, C23D, C23E, C23F, C23G, C23H, C23I, C23J, C23K, C23L, C23M, C23N, C23O, C23P, C23Q, C23R, C23S, C23T, C23U, C23V, C23W, C23X, C23Y, C23Z. C24A, C24B, C24C, C24D, C24E, C24F, C24G, C24H, C24I, C24J, C24K, C24L, C24M, C24N, C24O, C24P, C24Q, C24R, C24S, C24T, C24U, C24V, C24W, C24X, C24Y, C24Z. C25A, C25B, C25C, C25D, C25E, C25F, C25G, C25H, C25I, C25J, C25K, C25L, C25M, C25N, C25O, C25P, C25Q, C25R, C25S, C25T, C25U, C25V, C25W, C25X, C25Y, C25Z. C26A, C26B, C26C, C26D, C26E, C26F, C26G, C26H, C26I, C26J, C26K, C26L, C26M, C26N, C26O, C26P, C26Q, C26R, C26S, C26T, C26U, C26V, C26W, C26X, C26Y, C26Z. C27A, C27B, C27C, C27D, C27E, C27F, C27G, C27H, C27I, C27J, C27K, C27L, C27M, C27N, C27O, C27P, C27Q, C27R, C27S, C27T, C27U, C27V, C27W, C27X, C27Y, C27Z. C28A, C28B, C28C, C28D, C28E, C28F, C28G, C28H, C28I, C28J, C28K, C28L, C28M, C28N, C28O, C28P, C28Q, C28R, C28S, C28T, C28U, C28V, C28W, C28X, C28Y, C28Z. C29A, C29B, C29C, C29D, C29E, C29F, C29G, C29H, C29I, C29J, C29K, C29L, C29M, C29N, C29O, C29P, C29Q, C29R, C29S, C29T, C29U, C29V, C29W, C29X, C29Y, C29Z. C30A, C30B, C30C, C30D, C30E, C30F, C30G, C30H, C30I, C30J, C30K, C30L, C30M, C30N, C30O, C30P, C30Q, C30R, C30S, C30T, C30U, C30V, C30W, C30X, C30Y, C30Z. C31A, C31B, C31C, C31D, C31E, C31F, C31G, C31H, C31I, C31J, C31K, C31L, C31M, C31N, C31O, C31P, C31Q, C31R, C31S, C31T, C31U, C31V, C31W, C31X, C31Y, C31Z. C32A, C32B, C32C, C32D, C32E, C32F, C32G, C32H, C32I, C32J, C32K, C32L, C32M, C32N, C32O, C32P, C32Q, C32R, C32S, C32T, C32U, C32V, C32W, C32X, C32Y, C32Z. C33A, C33B, C33C, C33D, C33E, C33F, C33G, C33H, C33I, C33J, C33K, C33L, C33M, C33N, C33O, C33P, C33Q, C33R, C33S, C33T, C33U, C33V, C33W, C33X, C33Y, C33Z. C34A, C34B, C34C, C34D, C34E, C34F, C34G, C34H, C34I, C34J, C34K, C34L, C34M, C34N, C34O, C34P, C34Q, C34R, C34S, C34T, C34U, C34V, C34W, C34X, C34Y, C34Z. C35A, C35B, C35C, C35D, C35E, C35F, C35G, C35H, C35I, C35J, C35K, C35L, C35M, C35N, C35O, C35P, C35Q, C35R, C35S, C35T, C35U, C35V, C35W, C35X, C35Y, C35Z. C36A, C36B, C36C, C36D, C36E, C36F, C36G, C36H, C36I, C36J, C36K, C36L, C36M, C36N, C36O, C36P, C36Q, C36R, C36S, C36T, C36U, C36V, C36W, C36X, C36Y, C36Z. C37A, C37B, C37C, C37D, C37E, C37F, C37G, C37H, C37I, C37J, C37K, C37L, C37M, C37N, C37O, C37P, C37Q, C37R, C37S, C37T, C37U, C37V, C37W, C37X, C37Y, C37Z. C38A, C38B, C38C, C38D, C38E, C38F, C38G, C38H, C38I, C38J, C38K, C38L, C38M, C38N, C38O, C38P, C38Q, C38R, C38S, C38T, C38U, C38V, C38W, C38X, C38Y, C38Z. C39A, C39B, C39C, C39D, C39E, C39F, C39G, C39H, C39I, C39J, C39K, C39L, C39M, C39N, C39O, C39P, C39Q, C39R, C39S, C39T, C39U, C39V, C39W, C39X, C39Y, C39Z. C40A, C40B, C40C, C40D, C40E, C40F, C40G, C40H, C40I, C40J, C40K, C40L, C40M, C40N, C40O, C40P, C40Q, C40R, C40S, C40T, C40U, C40V, C40W, C40X, C40Y, C40Z. C41A, C41B, C41C, C41D, C41E, C41F, C41G, C41H, C41I, C41J, C41K, C41L, C41M, C41N, C41O, C41P, C41Q, C41R, C41S, C41T, C41U, C41V, C41W, C41X, C41Y, C41Z. C42A, C42B, C42C, C42D, C42E, C42F, C42G, C42H, C42I, C42J, C42K, C42L, C42M, C42N, C42O, C42P, C42Q, C42R, C42S, C42T, C42U, C42V, C42W, C42X, C42Y, C42Z. C43A, C43B, C43C, C43D, C43E, C43F, C43G, C43H, C43I, C43J, C43K, C43L, C43M, C43N, C43O, C43P, C43Q, C43R, C43S, C43T, C43U, C43V, C43W, C43X, C43Y, C43Z. C44A, C44B, C44C, C44D, C44E, C44F, C44G, C44H, C44I, C44J, C44K, C44L, C44M, C44N, C44O, C44P, C44Q, C44R, C44S, C44T, C44U, C44V, C44W, C44X, C44Y, C44Z. C45A, C45B, C45C, C45D, C45E, C45F, C45G, C45H, C45I, C45J, C45K, C45L, C45M, C45N, C45O, C45P, C45Q, C45R, C45S, C45T, C45U, C45V, C45W, C45X, C45Y, C45Z. C46A, C46B, C46C, C46D, C46E, C46F, C46G, C46H, C46I, C46J, C46K, C46L, C46M, C46N, C46O, C46P, C46Q, C46R, C46S, C46T, C46U, C46V, C46W, C46X, C46Y, C46Z. C47A, C47B, C47C, C47D, C47E, C47F, C47G, C47H, C47I, C47J, C47K, C47L, C47M, C47N, C47O, C47P, C47Q, C47R, C47S, C47T, C47U, C47V, C47W, C47X, C47Y, C47Z. C48A, C48B, C48C, C48D, C48E, C48F, C48G, C48H, C48I, C48J, C48K, C48L, C48M, C48N, C48O, C48P, C48Q, C48R, C48S, C48T, C48U, C48V, C48W, C48X, C48Y, C48Z. C49A, C49B, C49C, C49D, C49E, C49F, C49G, C49H, C49I, C49J, C49K, C49L, C49M, C49N, C49O, C49P, C49Q, C49R, C49S, C49T, C49U, C49V, C49W, C49X, C49Y, C49Z. C50A, C50B, C50C, C50D, C50E, C50F, C50G, C50H, C50I, C50J, C50K, C50L, C50M, C50N, C50O, C50P, C50Q, C50R, C50S, C50T, C50U, C50V, C50W, C50X, C50Y, C50Z.

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8645925

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED	
BASIC DIMENSIONS	2 PLACE DECIMALS
UP TO 6	± .02
6 TO 24	± .01
ABOVE 24	± .06

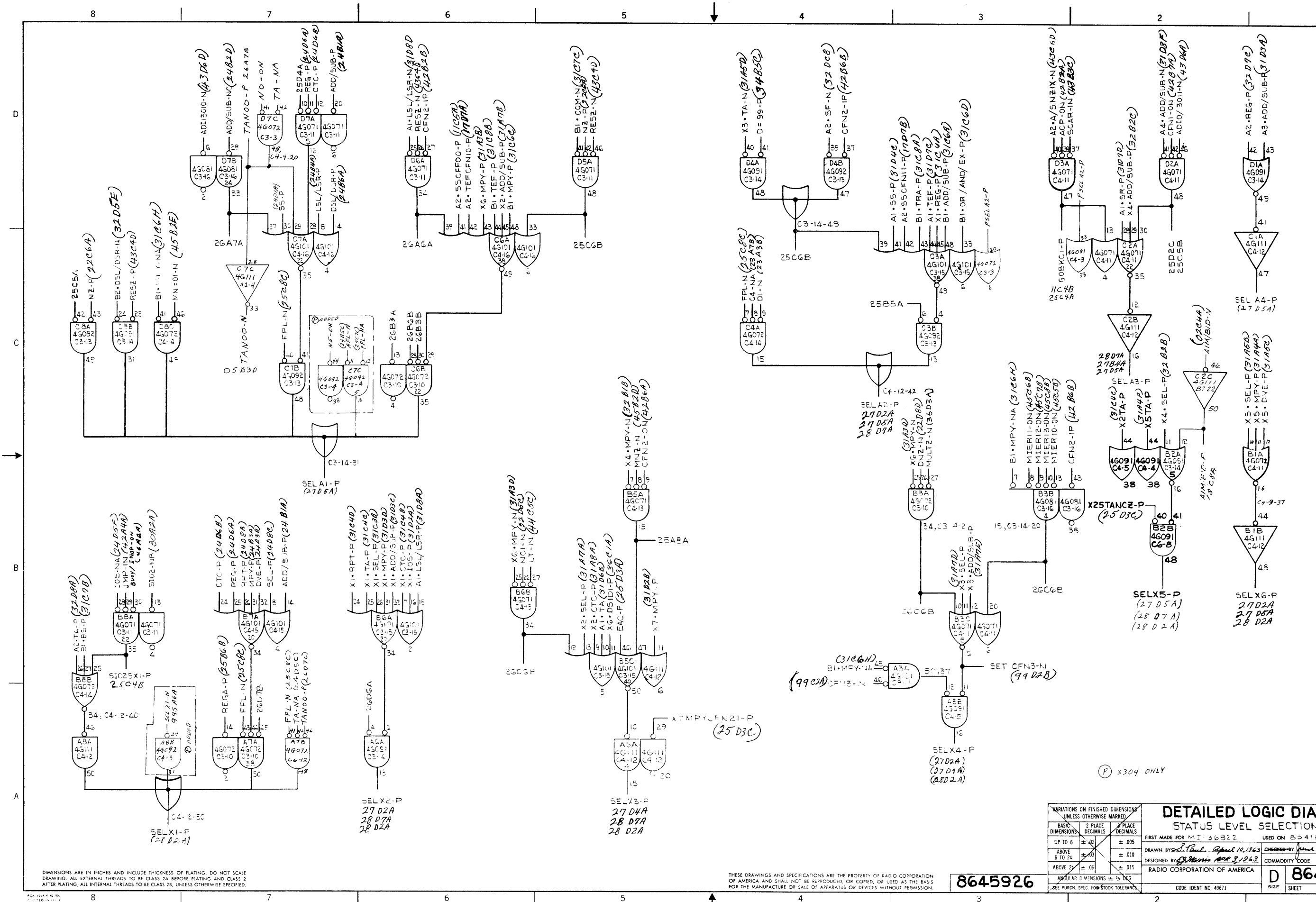
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED	
2 PLACE DECIMALS	3 PLACE DECIMALS
± .02	± .005
± .01	± .010
± .06	± .015

ANGULAR DIMENSIONS ± 1/2 DEG. SEE PUNCH SPEC. FOR STOCK TOLERANCES.

PF	J8	JF	FRL
DETAILED LOGIC DIAGRAM			
STATUS LEVEL SELECTION I			
FIRST MADE FOR WT-36822		USED ON 3541346	
DRAWN BY: [Signature]		CHECKED BY: [Signature]	
DESIGNED BY: [Signature]		COMMODITY CODE	
RADIO CORPORATION OF AMERICA		D 8645925	
CODE IDENT NO. 49671		SIZE SHEET CONT'D ON SH	

LOGIC ELEMENT INDEX		
B5-12	B6-8	B7-10
B5-14		
C3-3	C4-2	C8-4
C3-4	C4-7	C8-8
C3-10	C4-9	C8-12
C3-11	C4-10	
C3-14	C4-11	
C3-15	C4-12	
C3-16	C4-13	
C3-17	C4-14	
C3-18	C4-15	
C3-19	C4-16	
C3-20	C4-17	
	C4-18	
	C4-19	
	C4-20	

3301



REVISIONS		
AP. BY	<i>S. Paul</i>	0
DATE	<i>June 17, 1963</i>	
REVISED		
AP. BY	<i>S. Paul</i>	1
DATE	<i>Aug 19, 1963</i>	
REVISED		
AP. BY	<i>S. Paul</i>	2
DATE	<i>Aug 19, 1963</i>	
REVISED		
AP. BY	<i>S. Paul</i>	3
DATE	<i>Nov 12, 1963</i>	
REVISED		
AP. BY	<i>S. Paul</i>	4
DATE	<i>Dec 13, 1963</i>	
REVISED		
AP. BY	<i>S. Paul</i>	5
DATE	<i>June 2, 1964</i>	
REVISED		
AP. BY	<i>S. Paul</i>	6
DATE	<i>June 2, 1964</i>	
REVISED		
AP. BY	<i>S. Paul</i>	7
DATE	<i>June 2, 1964</i>	
REVISED		
AP. BY	<i>S. Paul</i>	8
DATE	<i>10-27-64</i>	
REVISED		

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8645926

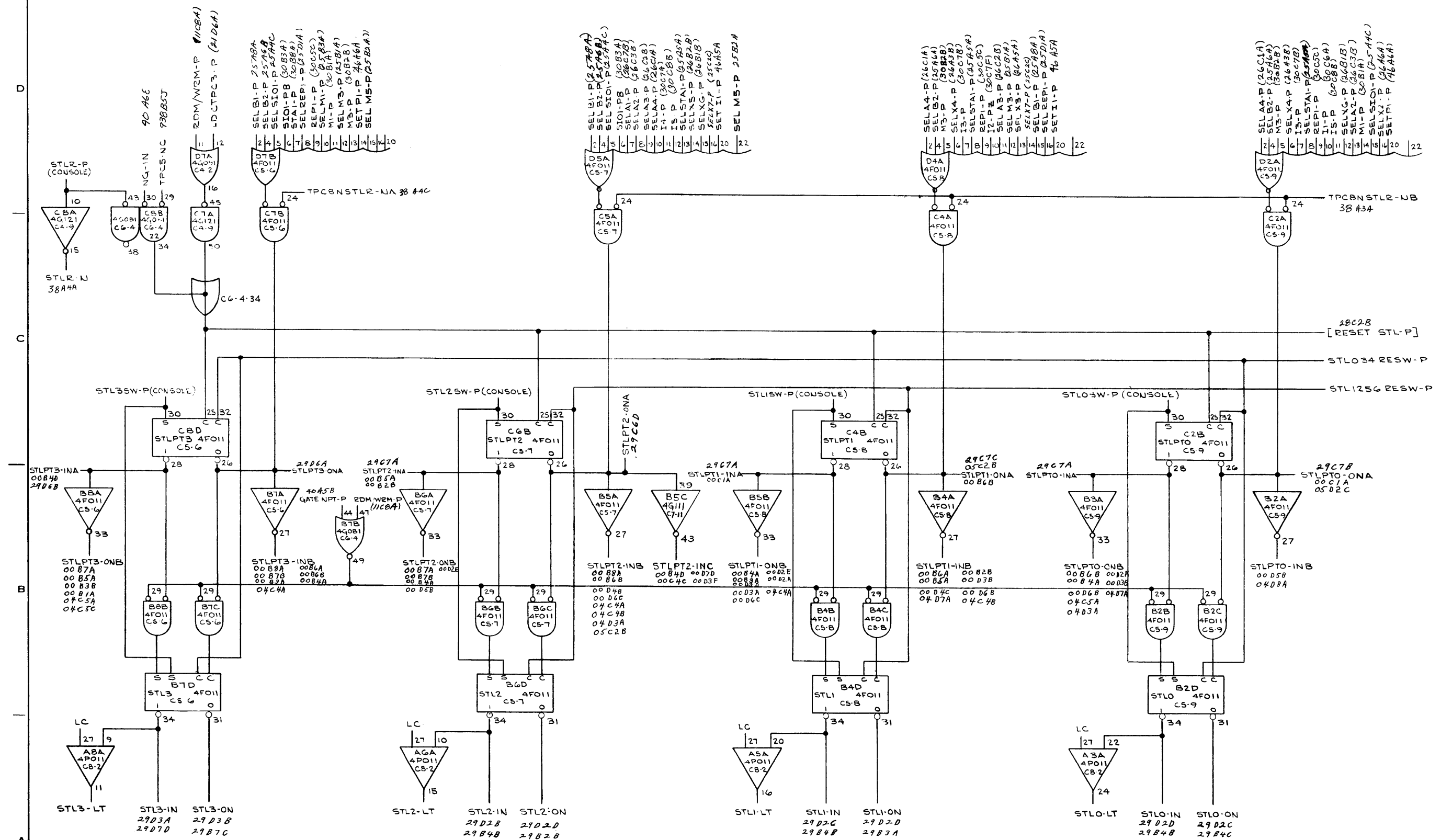
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED:		DETAILED LOGIC DIAGRAM STATUS LEVEL SELECTION II FIRST MADE FOR M.I. 36822 USED ON 2541246 DRAWN BY <i>S. Paul</i> , April 10, 1963 CHECKED BY <i>June 18, 1963</i> DESIGNED BY <i>S. Paul</i> , Nov 3, 1963 COMMODITY CODE RADIO CORPORATION OF AMERICA CODE IDENT NO. 49671	UP TO 6 ± .01 ABOVE 6 TO 24 ± .010 ABOVE 24 ± .015
BASIC DIMENSIONS	2 PLACE DECIMALS		2 PLACE DECIMALS 2 PLACE DECIMALS 2 PLACE DECIMALS
ANGULAR DIMENSIONS ± ½ DEG.			SIZE D SHEET 8645926 CONT'D ON SH
SEE PURCH. SPEC. FOR STOCK TOLERANCES.			3301

31

3301

(P) 3304 ONLY

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.



REVISIONS

AP. BY	0
DATE	11/17/63
REVISED	11/17/63
APPROVED	1
DATE	12/12/63
REVISED	2
APPROVED	3
DATE	1/2/64
REVISED	4
APPROVED	5

ATDSA SELXP WAS
 13 MPT-P, AT04A
 SELXP WAS X3A-M-P
 ECN 78
 JUNE 1, 1964

AT LOC D, C/6 OR
 GATE D6A & AND GATE
 C6A DELETED.
 ECN 78
 JUNE 1, 1964

REV. 394 RELEASED
 SIMULTANEOUSLY.

32

3301

215	JF
146	PF
146	FLC
146	JF
146	JF
146	VF
146	TP

DETAILED LOGIC DIAGRAM
STATUS LEVEL REGISTER I

FIRST MADE FOR MI-36822 USED ON 8541846

DRAWN BY: [Signature] CHECKED BY: [Signature] DATE: 12/19/63

DESIGNED BY: [Signature] COMMUNITY CODE

RADIO CORPORATION OF AMERICA

CODE IDENT NO. 49671

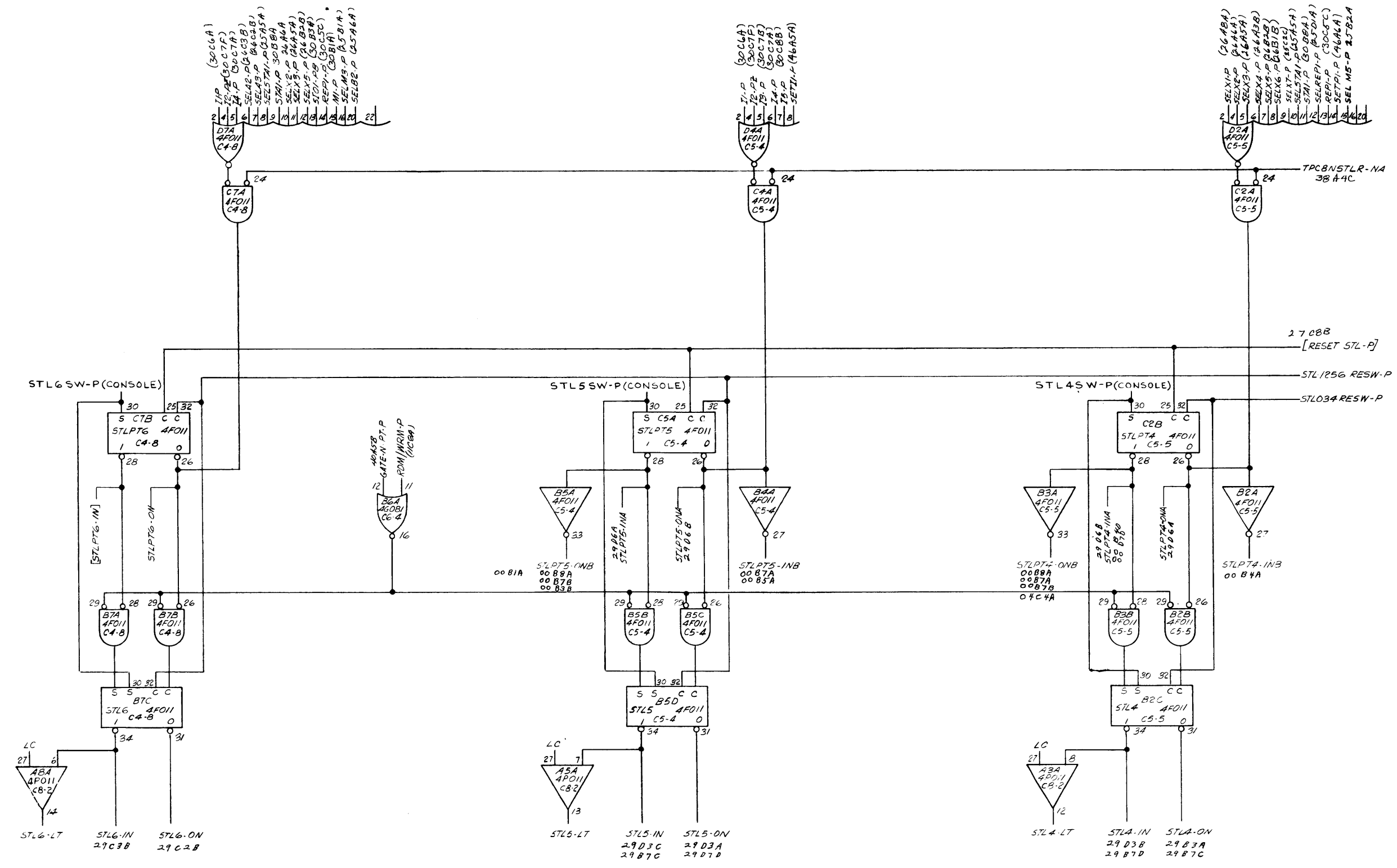
SIZE: **D 8645927**

8645927

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DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED

REVISIONS	
AP. BY: <i>[Signature]</i>	0
DATE: <i>June 17, 1963</i>	
REVISED	
BY: <i>[Signature]</i>	1
DATE: <i>Aug 19, 1963</i>	
APPROVED	
BY: <i>[Signature]</i>	2
DATE: <i>Nov 12, 1963</i>	
AT D2A SELX-P WAS X3 MPL-P	
ECN-78	
DATE: <i>June 2, 1964</i>	3
AT ZONE C, D/G OR GATE D6A & AND GATE C&A DELETED.	
ECN-78	
DATE: <i>June 3, 1964</i>	4
REV. 344 REVISED SIMULTANEOUSLY.	



VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED	
BASIC DIMENSIONS	2 PLACE DECIMALS
UP TO 4	± .005
ABOVE 4 TO 24	± .010
ABOVE 24	± .015
REGULAR DIMENSIONS	± .005
SEE PURCH SPEC FOR STOCK TOLERANCE	

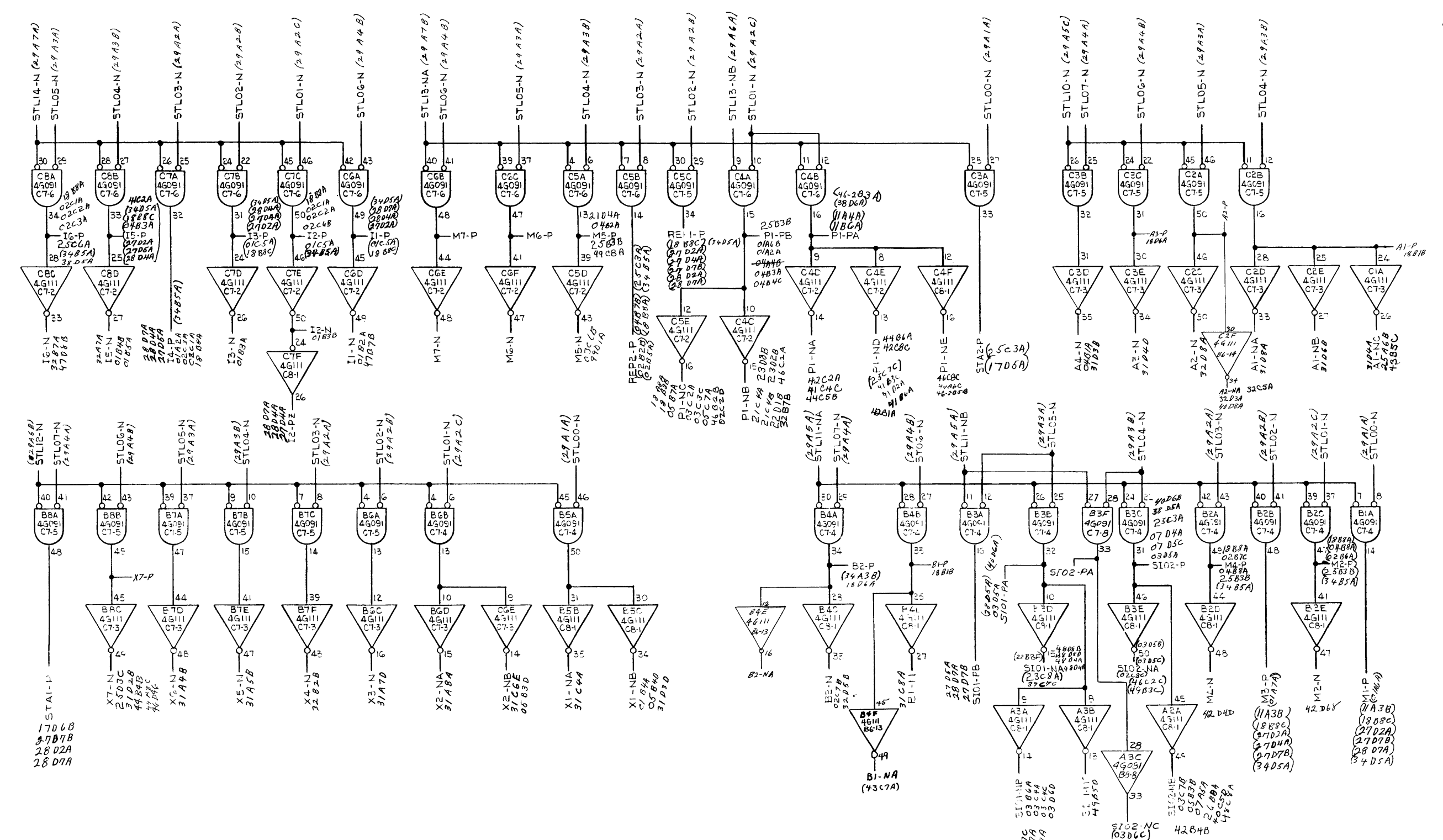
DETAILED LOGIC DIAGRAM	
STATUS LEVEL REGISTER II	
FIRST MADE FOR M1-36822	USED ON 8541846
DRAWN BY <i>[Signature]</i>	CHECKED BY <i>[Signature]</i>
DESIGNED BY <i>[Signature]</i>	COMMODITY CODE
RADIO CORPORATION OF AMERICA	
CODE IDENT NO. 49671	SIZE

8645928

8645928

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED

REVISIONS	
AP. BY	0
DATE	11/11/63
REV. 550	1
REV. 550	2
REV. 550	3
REV. 550	4



APPROVED.
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REVISIONS	
AP. BY	0
DATE	11/11/63
REV. 550	1
REV. 550	2
REV. 550	3
REV. 550	4

DIMENSIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED	
BASIC DIMENSIONS	2 PLACE DECIMALS
UP TO 4	0.01
ABOVE 4 TO 24	0.02
ABOVE 24	0.05
REGULAR DIMENSIONS	3 PLACE DECIMALS
UP TO 4	0.001
ABOVE 4 TO 24	0.002
ABOVE 24	0.005

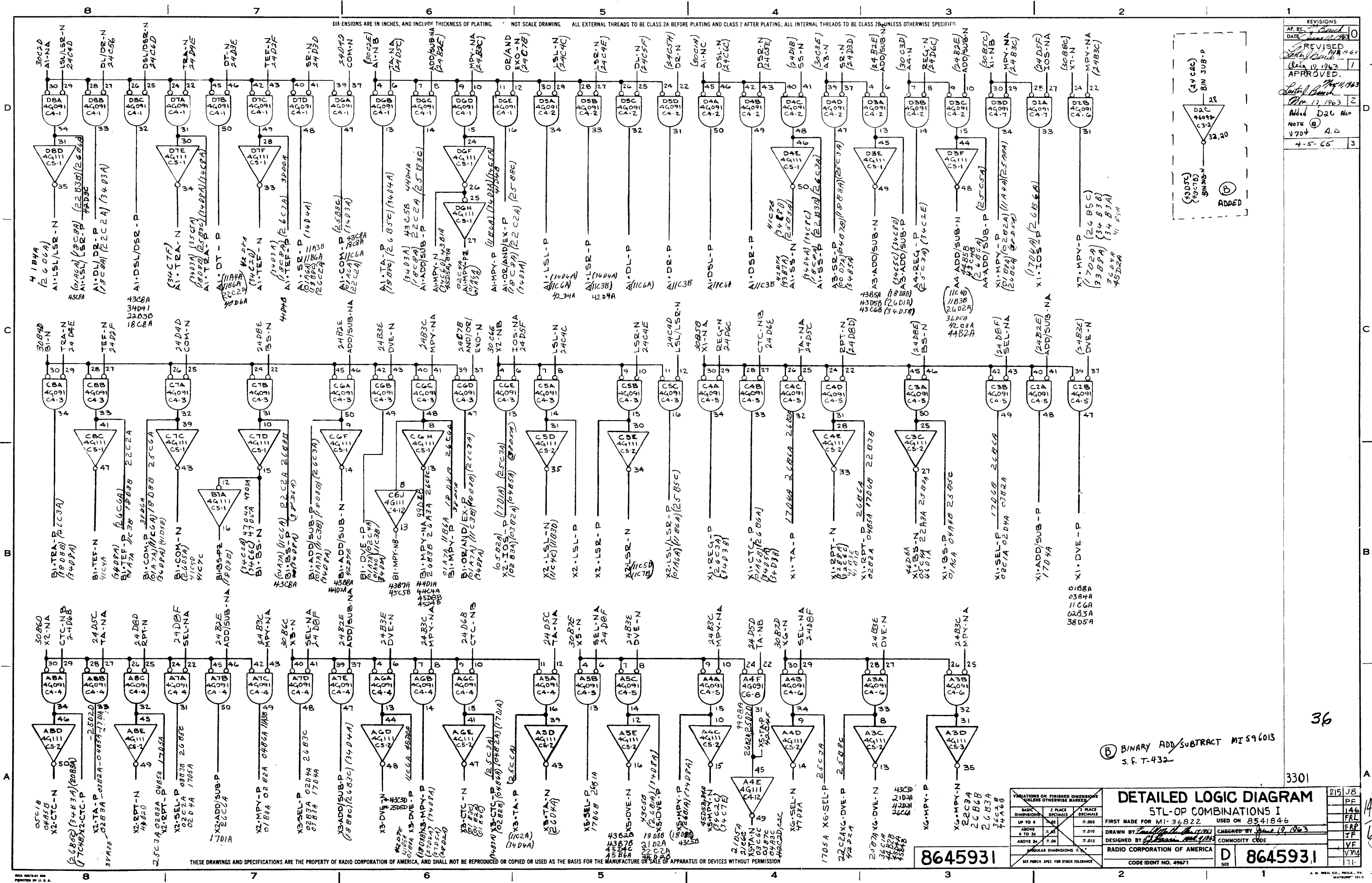
DETAILED LOGIC DIAGRAM
 STATUS LEVEL GENERATION

FIRST MADE FOR M.I. 5. 822 USED ON 85+1846
 DRAWN BY [Signature] CHECKED BY [Signature]
 DESIGNED BY [Signature] COMMUNITY CODE

RADIO CORPORATION OF AMERICA
 CODE ID: NT NO. 49671

8645930

8645930



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ⓑ BINARY ADD/SUBTRACT MI 596013
S.F.T-432

DIMENSIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE SPECIFIED		
BASIC DIMENSION	FRAC. DECIMALS	PLAC. DECIMALS
UP TO 4"	±.005	
4 TO 16"	±.010	
16 TO 30"	±.015	
30 TO 48"	±.020	
48 TO 72"	±.025	
72 TO 96"	±.030	
96 TO 120"	±.035	
120 TO 144"	±.040	
144 TO 168"	±.045	
168 TO 192"	±.050	
192 TO 216"	±.055	
216 TO 240"	±.060	
240 TO 264"	±.065	
264 TO 288"	±.070	
288 TO 312"	±.075	
312 TO 336"	±.080	
336 TO 360"	±.085	
360 TO 384"	±.090	
384 TO 408"	±.095	
408 TO 432"	±.100	
432 TO 456"	±.105	
456 TO 480"	±.110	
480 TO 504"	±.115	
504 TO 528"	±.120	
528 TO 552"	±.125	
552 TO 576"	±.130	
576 TO 600"	±.135	
600 TO 624"	±.140	
624 TO 648"	±.145	
648 TO 672"	±.150	
672 TO 696"	±.155	
696 TO 720"	±.160	
720 TO 744"	±.165	
744 TO 768"	±.170	
768 TO 792"	±.175	
792 TO 816"	±.180	
816 TO 840"	±.185	
840 TO 864"	±.190	
864 TO 888"	±.195	
888 TO 912"	±.200	
912 TO 936"	±.205	
936 TO 960"	±.210	
960 TO 984"	±.215	
984 TO 1008"	±.220	
1008 TO 1032"	±.225	
1032 TO 1056"	±.230	
1056 TO 1080"	±.235	
1080 TO 1104"	±.240	
1104 TO 1128"	±.245	
1128 TO 1152"	±.250	
1152 TO 1176"	±.255	
1176 TO 1200"	±.260	
1200 TO 1224"	±.265	
1224 TO 1248"	±.270	
1248 TO 1272"	±.275	
1272 TO 1296"	±.280	
1296 TO 1320"	±.285	
1320 TO 1344"	±.290	
1344 TO 1368"	±.295	
1368 TO 1392"	±.300	
1392 TO 1416"	±.305	
1416 TO 1440"	±.310	
1440 TO 1464"	±.315	
1464 TO 1488"	±.320	
1488 TO 1512"	±.325	
1512 TO 1536"	±.330	
1536 TO 1560"	±.335	
1560 TO 1584"	±.340	
1584 TO 1608"	±.345	
1608 TO 1632"	±.350	
1632 TO 1656"	±.355	
1656 TO 1680"	±.360	
1680 TO 1704"	±.365	
1704 TO 1728"	±.370	
1728 TO 1752"	±.375	
1752 TO 1776"	±.380	
1776 TO 1800"	±.385	
1800 TO 1824"	±.390	
1824 TO 1848"	±.395	
1848 TO 1872"	±.400	
1872 TO 1896"	±.405	
1896 TO 1920"	±.410	
1920 TO 1944"	±.415	
1944 TO 1968"	±.420	
1968 TO 1992"	±.425	
1992 TO 2016"	±.430	
2016 TO 2040"	±.435	
2040 TO 2064"	±.440	
2064 TO 2088"	±.445	
2088 TO 2112"	±.450	
2112 TO 2136"	±.455	
2136 TO 2160"	±.460	
2160 TO 2184"	±.465	
2184 TO 2208"	±.470	
2208 TO 2232"	±.475	
2232 TO 2256"	±.480	
2256 TO 2280"	±.485	
2280 TO 2304"	±.490	
2304 TO 2328"	±.495	
2328 TO 2352"	±.500	
2352 TO 2376"	±.505	
2376 TO 2400"	±.510	
2400 TO 2424"	±.515	
2424 TO 2448"	±.520	
2448 TO 2472"	±.525	
2472 TO 2496"	±.530	
2496 TO 2520"	±.535	
2520 TO 2544"	±.540	
2544 TO 2568"	±.545	
2568 TO 2592"	±.550	
2592 TO 2616"	±.555	
2616 TO 2640"	±.560	
2640 TO 2664"	±.565	
2664 TO 2688"	±.570	
2688 TO 2712"	±.575	
2712 TO 2736"	±.580	
2736 TO 2760"	±.585	
2760 TO 2784"	±.590	
2784 TO 2808"	±.595	
2808 TO 2832"	±.600	
2832 TO 2856"	±.605	
2856 TO 2880"	±.610	
2880 TO 2904"	±.615	
2904 TO 2928"	±.620	
2928 TO 2952"	±.625	
2952 TO 2976"	±.630	
2976 TO 3000"	±.635	
3000 TO 3024"	±.640	
3024 TO 3048"	±.645	
3048 TO 3072"	±.650	
3072 TO 3096"	±.655	
3096 TO 3120"	±.660	
3120 TO 3144"	±.665	
3144 TO 3168"	±.670	
3168 TO 3192"	±.675	
3192 TO 3216"	±.680	
3216 TO 3240"	±.685	
3240 TO 3264"	±.690	
3264 TO 3288"	±.695	
3288 TO 3312"	±.700	
3312 TO 3336"	±.705	
3336 TO 3360"	±.710	
3360 TO 3384"	±.715	
3384 TO 3408"	±.720	
3408 TO 3432"	±.725	
3432 TO 3456"	±.730	
3456 TO 3480"	±.735	
3480 TO 3504"	±.740	
3504 TO 3528"	±.745	
3528 TO 3552"	±.750	
3552 TO 3576"	±.755	
3576 TO 3600"	±.760	
3600 TO 3624"	±.765	
3624 TO 3648"	±.770	
3648 TO 3672"	±.775	
3672 TO 3696"	±.780	
3696 TO 3720"	±.785	
3720 TO 3744"	±.790	
3744 TO 3768"	±.795	
3768 TO 3792"	±.800	
3792 TO 3816"	±.805	
3816 TO 3840"	±.810	
3840 TO 3864"	±.815	
3864 TO 3888"	±.820	
3888 TO 3912"	±.825	
3912 TO 3936"	±.830	
3936 TO 3960"	±.835	
3960 TO 3984"	±.840	
3984 TO 4008"	±.845	
4008 TO 4032"	±.850	
4032 TO 4056"	±.855	
4056 TO 4080"	±.860	
4080 TO 4104"	±.865	
4104 TO 4128"	±.870	
4128 TO 4152"	±.875	
4152 TO 4176"	±.880	
4176 TO 4200"	±.885	
4200 TO 4224"	±.890	
4224 TO 4248"	±.895	
4248 TO 4272"	±.900	
4272 TO 4296"	±.905	
4296 TO 4320"	±.910	
4320 TO 4344"	±.915	
4344 TO 4368"	±.920	
4368 TO 4392"	±.925	
4392 TO 4416"	±.930	
4416 TO 4440"	±.935	
4440 TO 4464"	±.940	
4464 TO 4488"	±.945	
4488 TO 4512"	±.950	
4512 TO 4536"	±.955	
4536 TO 4560"	±.960	
4560 TO 4584"	±.965	
4584 TO 4608"	±.970	
4608 TO 4632"	±.975	
4632 TO 4656"	±.980	
4656 TO 4680"	±.985	
4680 TO 4704"	±.990	
4704 TO 4728"	±.995	
4728 TO 4752"	±.1.000	

8645931

DETAILED LOGIC DIAGRAM
STL-OP COMBINATIONS I
FIRST MADE FOR MI-36822 USED ON 8541646
DRAWN BY [Signature] CHECKED BY [Signature]
DESIGNED BY [Signature] COMMODITY CODE
RADIO CORPORATION OF AMERICA
CODE IDENT NO. 49671

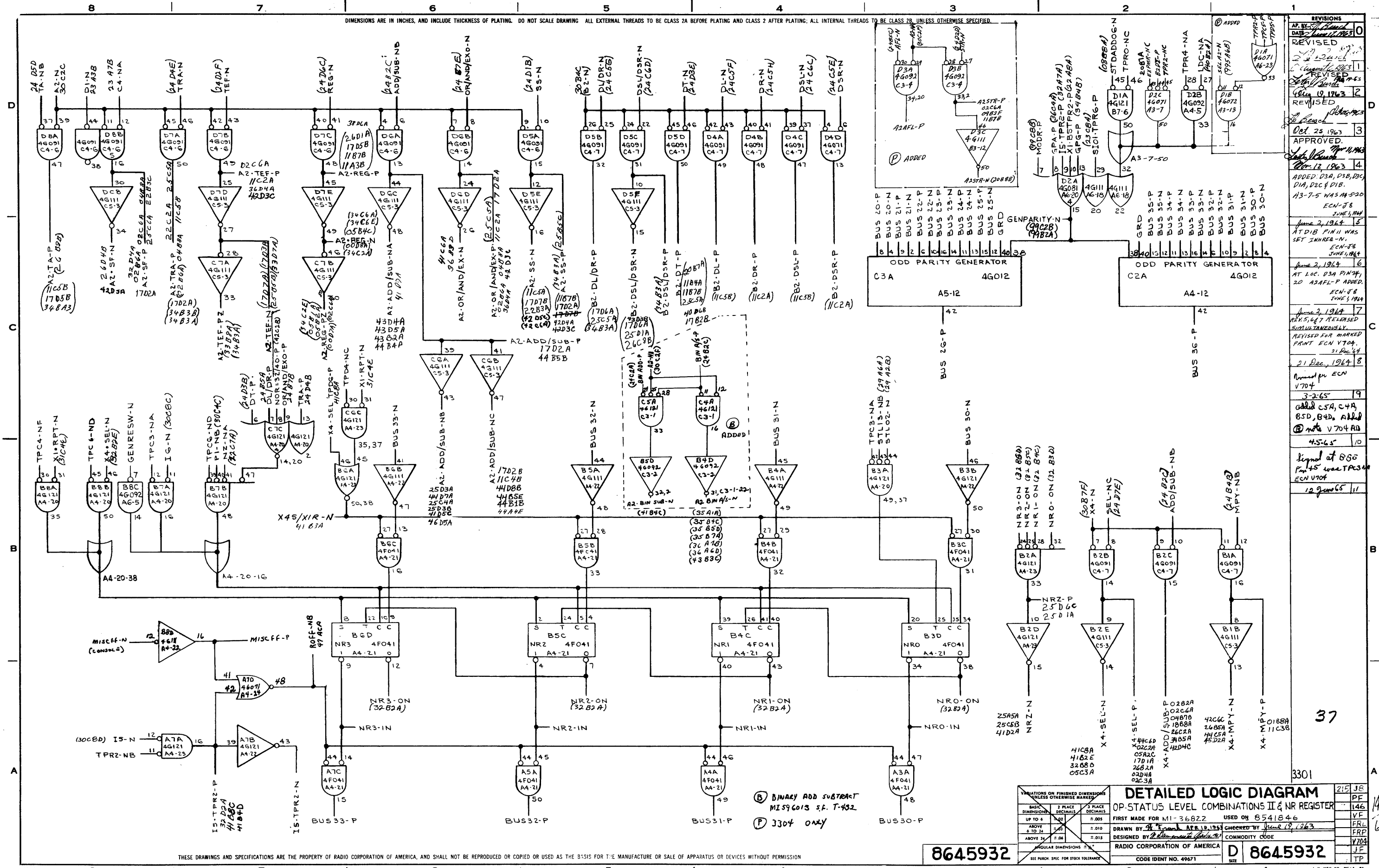
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AP. BY [Signature]	0
DATE [Date]	
REVISED [Signature]	1
APPROVED [Signature]	
DATE [Date]	2
ADDED [Signature]	
NOTE [Signature]	3
DATE [Date]	

36

3301

215	J8
146	PE
146	FRL
146	FAP
146	TF
146	VF
146	WMA
146	TL

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B UNLESS OTHERWISE SPECIFIED.



REVISIONS	
NO.	DESCRIPTION
0	AP. BY: [Signature] DATE: [Date]
1	REVISED
2	REVISED
3	APPROVED
4	APPROVED
5	APPROVED
6	APPROVED
7	APPROVED
8	APPROVED
9	APPROVED
10	APPROVED

37

3301

⑤ BINARY ADD SUBTRACT MIS96013 S.P. T-432
⑥ J304 ONLY

DETAILED LOGIC DIAGRAM
OP-STATUS LEVEL COMBINATIONS II & NR REGISTER

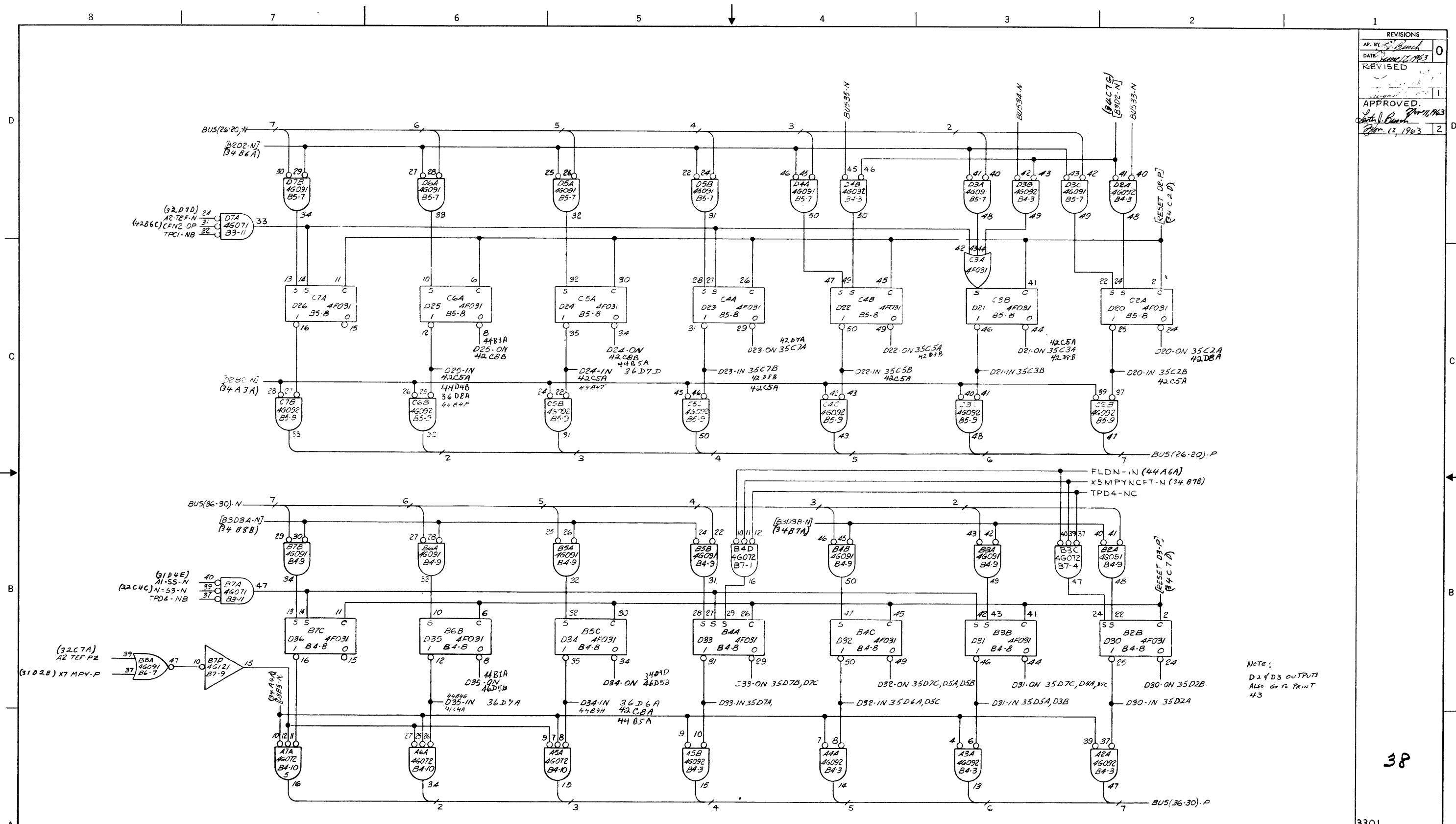
FIRST MADE FOR M1-36822 USED ON 8541846
DRAWN BY [Signature] APR 19, 1965 CHECKED BY [Signature] APR 19, 1965
DESIGNED BY [Signature] APR 19, 1965

RADIO CORPORATION OF AMERICA
CODE IDENT NO. 49671
SIZE **D 8645932**

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8645932

REVISIONS	
AP. BY	0
DATE	11/11/63
REVISION	
APPROVED	
DATE	11/11/63
BY	



NOTE:
D2 & D3 OUTPUTS
Also Go To PRINT
43

38

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		2 PLACE DECIMALS		3 PLACE DECIMALS	
BASIC DIMENSIONS	± .005	± .005	± .005	± .005	± .005
UP TO 6	± .005	± .005	± .005	± .005	± .005
6 TO 24	± .005	± .005	± .005	± .005	± .005
ABOVE 24	± .005	± .005	± .005	± .005	± .005
ANGULAR DIMENSIONS	± .005	± .005	± .005	± .005	± .005
SEE PURCH. SPEC. FOR STOCK TOLERANCES					

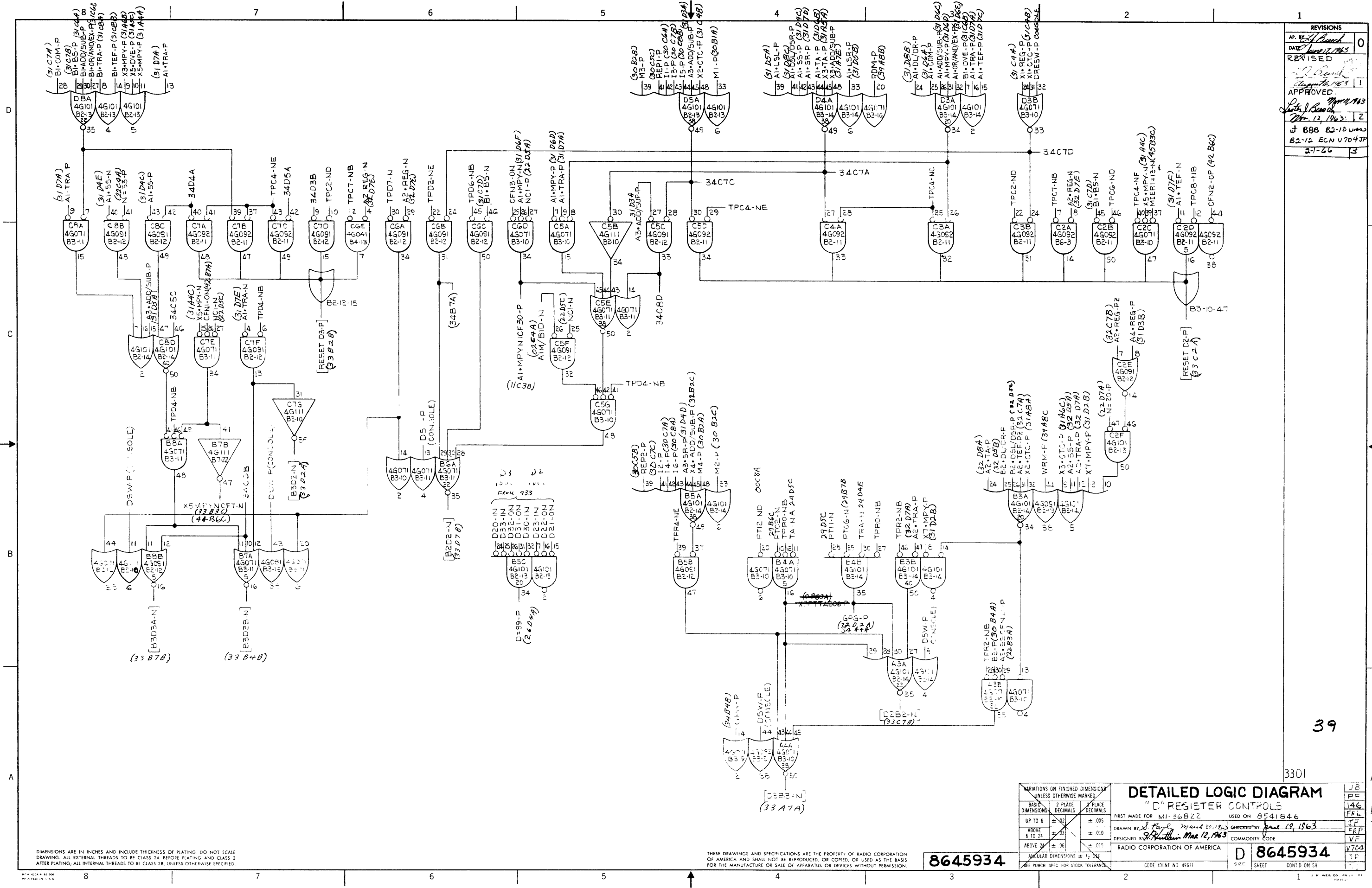
DETAILED LOGIC DIAGRAM		J8
"D" REGISTER		PF
FIRST MADE FOR MI-36822	USED ON 8541846	FRL
DRAWN BY [Signature]	CHECKED BY [Signature]	JF
DESIGNED BY [Signature]	COMMODITY CODE	VF
RADIO CORPORATION OF AMERICA		FRP
D 8645933		V704
SIZE SHEET	CONT'D ON SH	TP
CODE IDENT NO. 49671		215

8645933

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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3301



DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING, AND CLASS 2 AFTER PLATING, ALL INTERNAL THREADS TO BE CLASS 7B, UNLESS OTHERWISE SPECIFIED.

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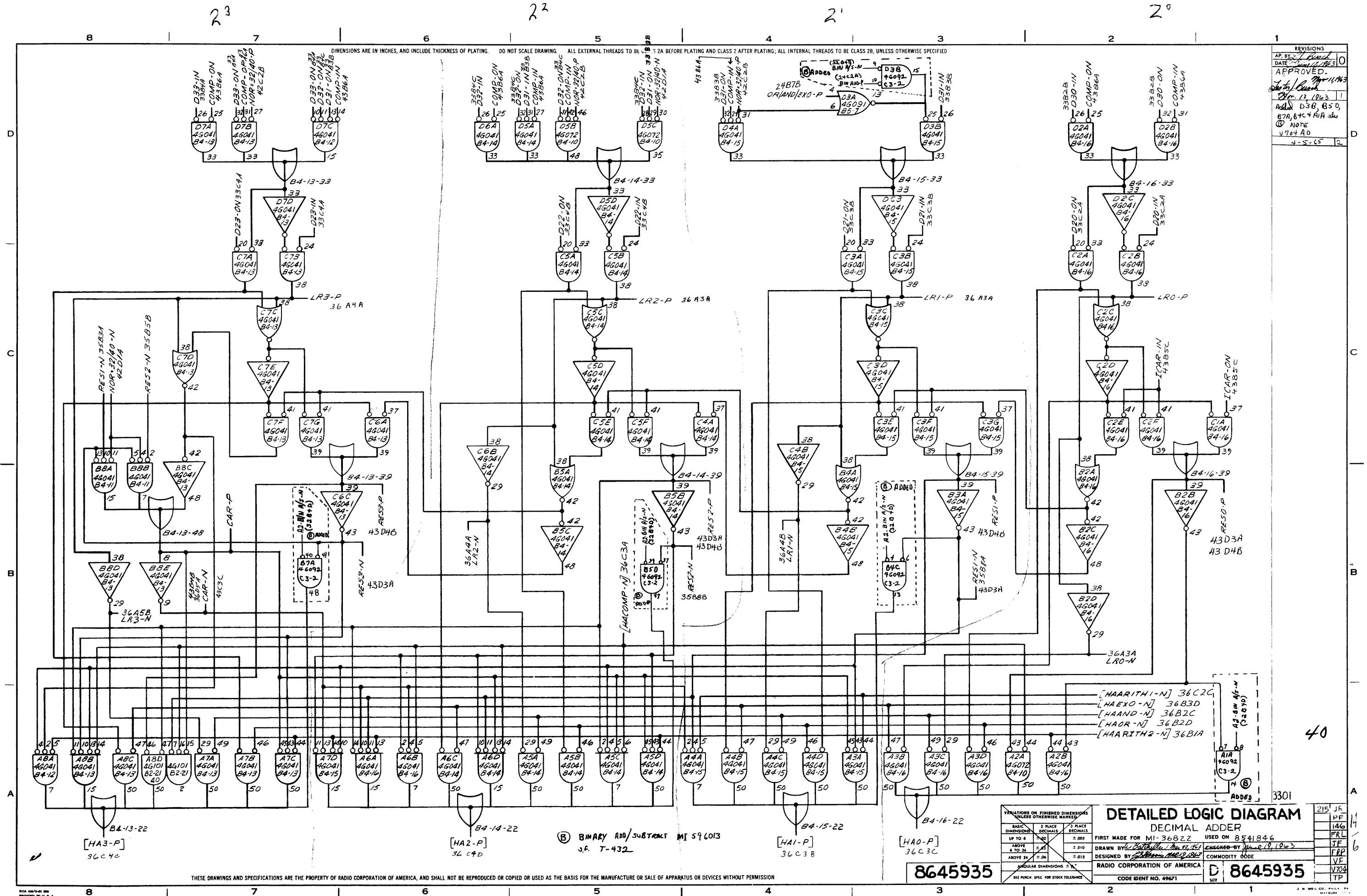
8645934

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED:		7 PLACE DECIMALS		7 PLACE DECIMALS	
BASIC DIMENSIONS	± .005	UP TO 6	± .010	UP TO 6	± .010
ABOVE 6 TO 24	± .015	ABOVE 24	± .020	ABOVE 24	± .030
ANGULAR DIMENSIONS	± 1/2 DEG	SEE PURCH SPEC FOR STOCK TOLERANCE			
FIRST MADE FOR MI-36822		USED ON 8541846		COMMODITY CODE	
DRAWN BY <i>J. Paul</i> March 20, 1963		CHECKED BY <i>June</i> June 19, 1963		RADIO CORPORATION OF AMERICA	
DESIGNED BY <i>W. M. Sullivan</i> Mar 12, 1963				D 8645934	
				SIZE SHEET CONT'D ON SH	

REVISIONS		
AP. BY	<i>J. Paul</i>	0
DATE	June 17, 1963	
REVISED		
APPROVED	<i>J. Paul</i>	1
DATE	Mar. 12, 1963	2
	888 B2-10 (w/3)	
	82-12 ECN 07047P	
	21-66	3

39

3301



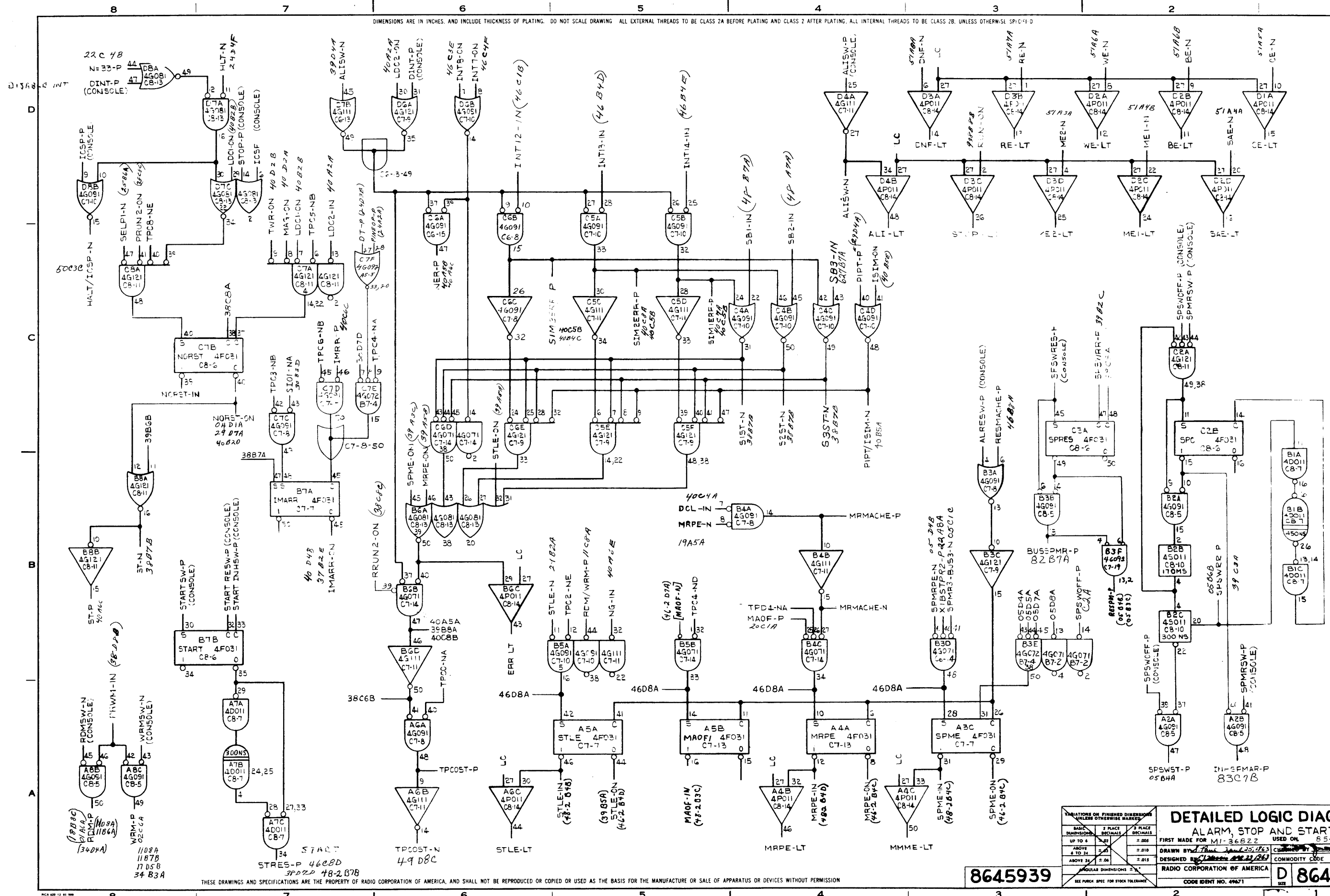
REVISIONS	
AP. BY: [Signature]	DATE: 11/11/53
APPROVED: [Signature]	
Drawn: [Signature]	
Added: D3B, B5D, B7A, B4C, 4 AIA also	
NOTE: V704 AD	
4-5-65	2

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	3 PLACE DECIMALS	5 PLACE DECIMALS
UP TO & ABOVE 4.10 24	± .01	± .005
ABOVE 24	± .015	± .01

DETAILED LOGIC DIAGRAM		DECIMAL ADDER	
FIRST MADE FOR M1-36822		USED ON 8541846	
DRAWN BY: [Signature]	DESIGNED BY: [Signature]	CHECKED BY: [Signature]	DATE: 11/19/53
RADIO CORPORATION OF AMERICA		COMMODITY CODE	
8645935		D 8645935	
SEE PURCH. SPEC. FOR STOCK TOLERANCE		CODE IDENT NO. 49671	

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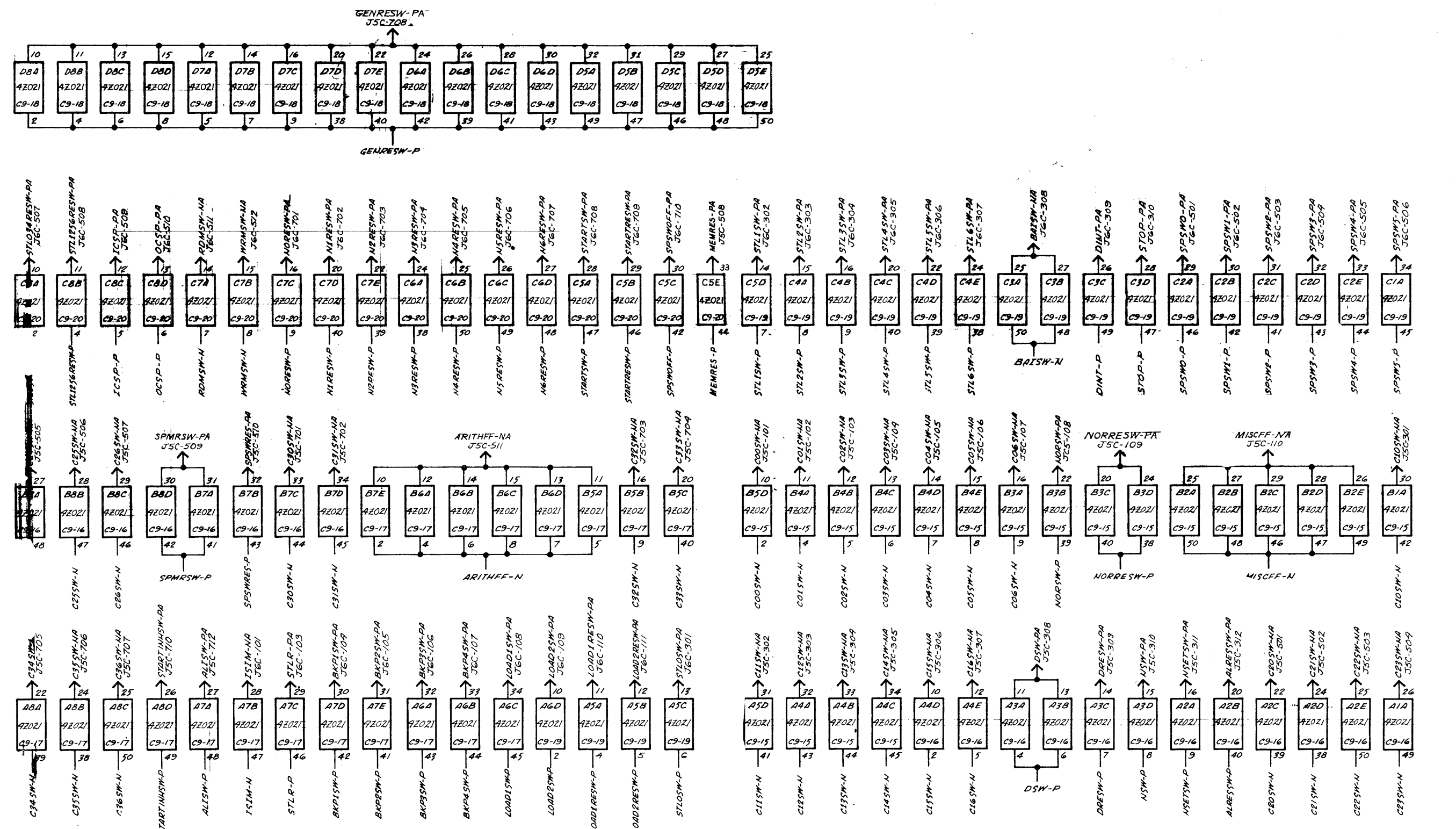
REVISIONS	
AP. BY	0
DATE	10/28/63
REVISED	1
REVISED	2
REVISED	3
REVISED	4
REVISED	5
APPROVED	6

VARIATIONS OF FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		215	J8
BASIC DIMENSIONS	2 PLACE DECIMALS	± .005	DF
UP TO 4	3 PLACE DECIMALS	± .001	146
4 TO 24	4 PLACE DECIMALS	± .0005	V704
ABOVE 24	5 PLACE DECIMALS	± .0002	1E
ANGULAR DIMENSIONS ± 1°		± 0.015	FR
SEE PAR. SPEC FOR STOCK TOLERANCE			FR
FIRST MADE FOR M1-36822		USED ON	5341846
DRAWN BY [Signature]		CHECKED BY [Signature]	
DESIGNED BY [Signature]		COMMODITY CODE	
RADIO CORPORATION OF AMERICA		D 8645939	
CODE IDENT NO. 69671			

8645939

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REVISIONS	
AP. BY	0
DATE	6-15-65
819	



DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8645939

TOLERANCES ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	± .02	± .005
ABOVE 6 TO 24	± .03	± .010
ABOVE 24	± .06	± .015
ANGULAR DIMENSIONS ± 1/2 DEG.		
SEE PURCH. SPEC. FOR STOCK TOLERANCE		

DETAILED LOGIC DIAGRAM
ALARM, STOP AND START

FIRST MADE FOR MI-36822 USED ON B541846

DRAWN BY *ALL* 12/18/65 CHECKED BY _____

DESIGNED BY _____ COMMODITY CODE 0000

RADIO CORPORATION OF AMERICA
PALM BEACH, FLA.

ANGULAR DIMENSIONS ± 1/2 DEG. CODE IDENT NO. 49671

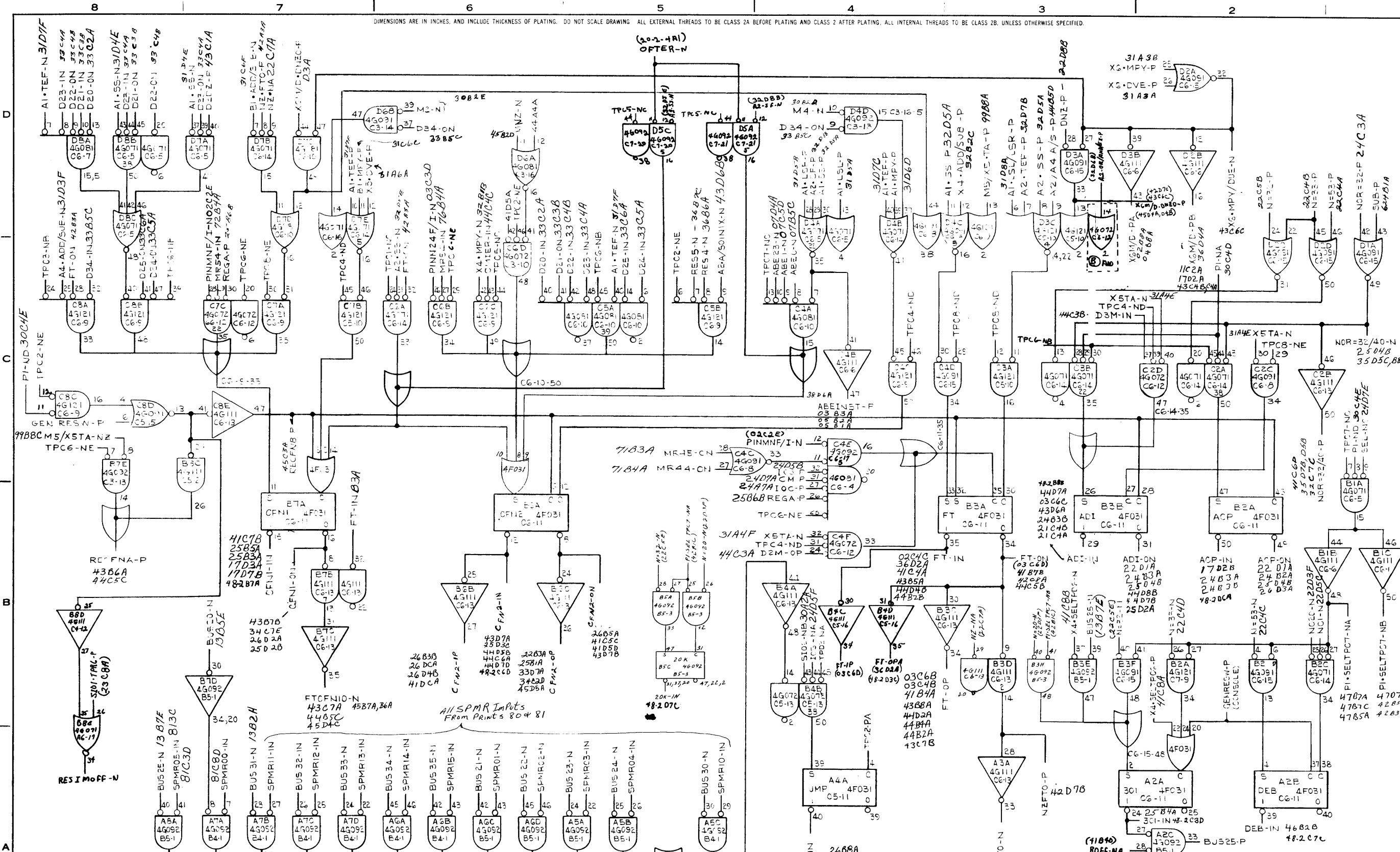
SIZE **D** SHEET 2 CONT'D ON SH. FINAL

3301

LOGIC ELEMENT INDEX

- C-9-15
- C-9-16
- C-9-17
- C-9-18
- C-9-19
- C-9-20

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.



REVISIONS	
NO.	DESCRIPTION
0	AP BY: [Signature] DATE: 11/17/63 REVISED
1	By: [Signature] DATE: Aug 7, 1963 REVISED
2	By: [Signature] DATE: Aug 22, 1963 REVISED
3	By: [Signature] DATE: [Signature] REVISED
4	By: [Signature] DATE: [Signature] REVISED
5	By: [Signature] DATE: [Signature] REVISED
6	By: [Signature] DATE: [Signature] REVISED
7	By: [Signature] DATE: [Signature] REVISED
8	By: [Signature] DATE: [Signature] REVISED
9	By: [Signature] DATE: [Signature] REVISED
10	By: [Signature] DATE: [Signature] REVISED
11	By: [Signature] DATE: [Signature] REVISED
12	By: [Signature] DATE: [Signature] REVISED
13	By: [Signature] DATE: [Signature] REVISED

Revised Per Marked Print

21 DEC 64 16

Added B80 & B8E C68-29 & TPC6-4K ECN V704 GP 3-2-65 17

add B4 & B4D A26-28 WAS IS-TPR2-NA ECN 704 GP 3-2-65 18

add C6-12 AT ZONE D3 also NOTE Added 4-5-65 19

B8E-26 WAS 5201-TPR6-N Added Sig on PIN 34. EVCN V704 RN 6 MAY 65 10

Removed DECAL Added D5A D6C ECN 704 CAM 17 DEC 65 11

C8C pin 11 & 12 pin 12 & 11 pin 12 & 11 ECN 704 NL 11 Jan 66 12

Zone 4C - C4E C6-17 upon A6-5 opening about 46081 4/4/68 ECN-V704 FEE 1/5-66 13

8645942

DETAILED LOGIC DIAGRAM

INSTRUCTION FLOW CONTROL FLIP-FLOPS

FIRST MADE FOR MI-36822 USED ON 8501826

DESIGNED BY [Signature] CHECKED BY [Signature] DATE: [Signature]

RADIO CORPORATION OF AMERICA

CODE IDENT NO. 49671

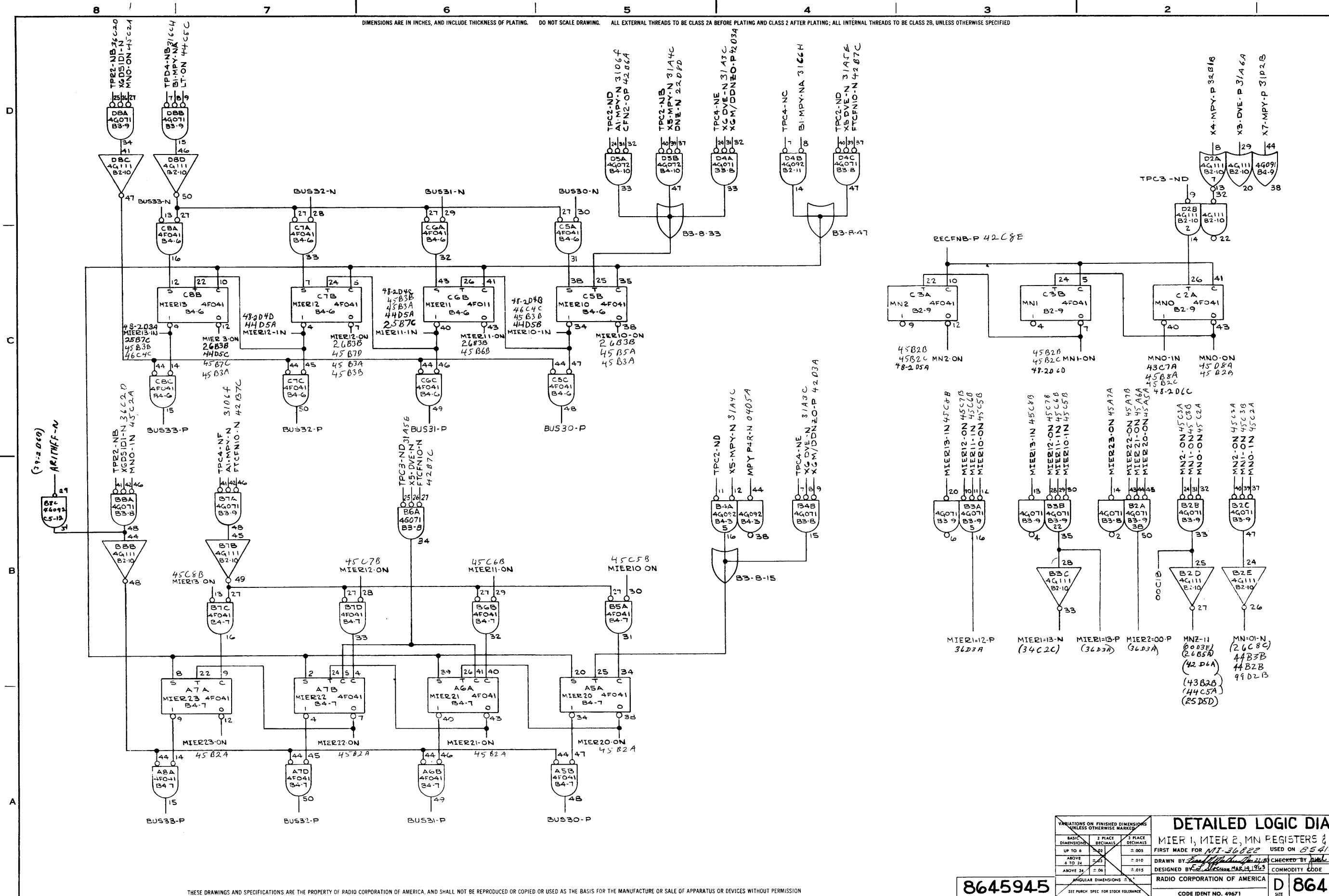
SIZE **D 8645942**

(B) BINARY ADD/SUBTRACT
MISYCOIS SA T-432

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REVISIONS	
AP. BY	0
DATE	
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REVISED	1
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REVISED	3
REVISED	4
REVISED	5
REVISED	6



REVISIONS	
AP. BY	0
DATE	
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REVISED	2
REVISED	3
REVISED	4
REVISED	5
REVISED	6

9 JUN 64

add B8C

ECN V704 RD

3-2-65

50

3301

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 4	± .02	± .005
ABOVE 4 TO 24	± .03	± .010
ABOVE 24	± .06	± .015
ANGULAR DIMENSIONS = ± .1°		
SEE PURCH. SPEC. FOR STOCK TOLERANCE		

DETAILED LOGIC DIAGRAM

MIER 1, MIER 2, MN REGISTERS & CONTROLS

FIRST MADE FOR MI-36822 USED ON 8541826

DESIGNED BY *[Signature]* CHECKED BY *[Signature]* 19 1963

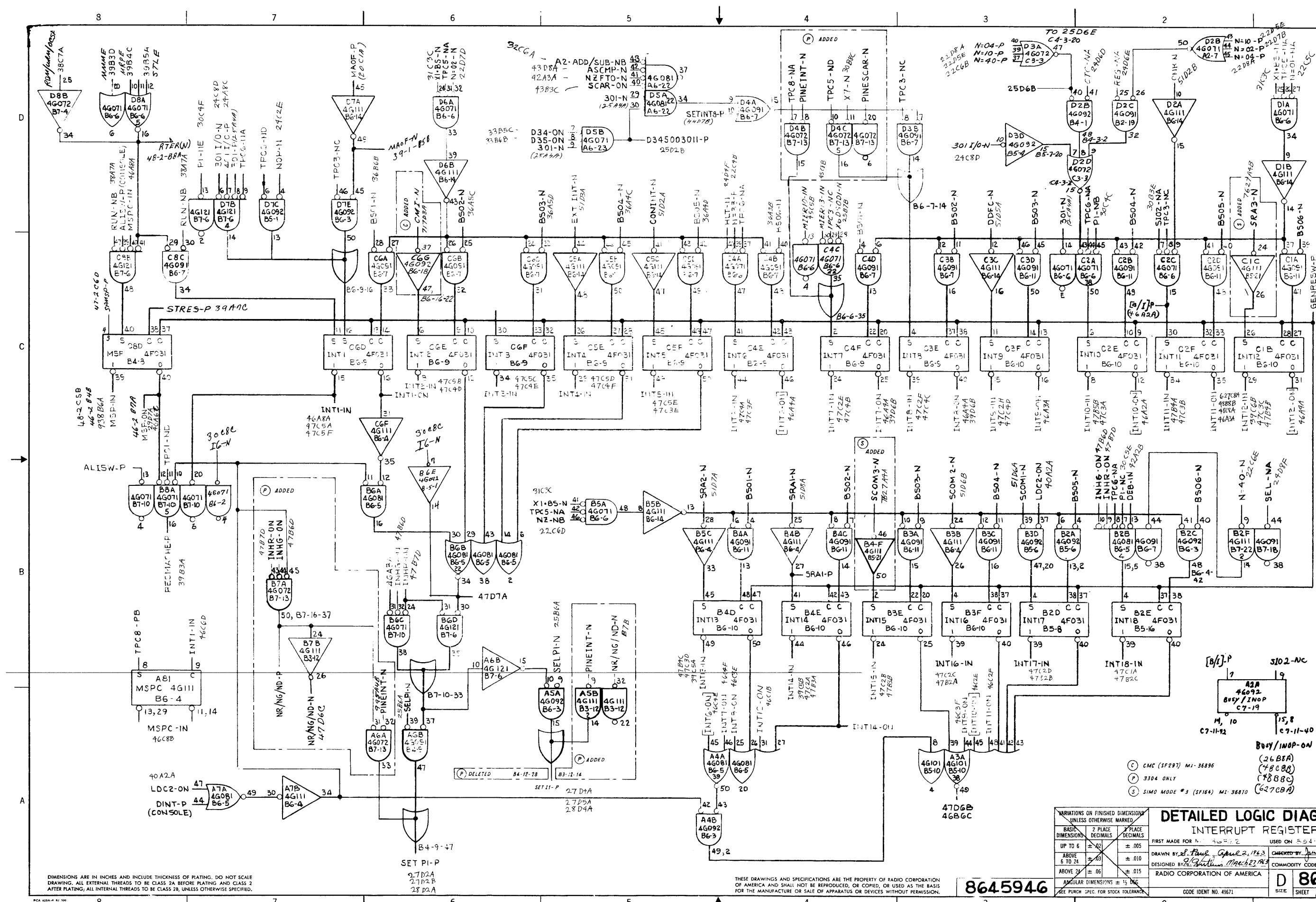
RADIO CORPORATION OF AMERICA

COMMODITY CODE

8645945

CODE IDENT NO. 49671

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REVISIONS	
DATE	0
REVISED	1
REVISED	2
REVISED	3
REVISED	4
REVISED	5
REVISED	6
REVISED	7
REVISED	8
REVISED	9
REVISED	10
REVISED	11
REVISED	12

3-2-65	10
3-2-65	11
added output C2C added A2A	12
7 oct 65	

LOGIC ELEMENT INDEX	
46-11	46-22
46-23	
46-1	46-2
46-3	46-4
46-5	46-6
46-7	46-8
46-9	46-10
46-11	46-12
46-13	46-14
46-15	46-16
46-17	46-18
46-19	46-20
46-21	46-22

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8645946

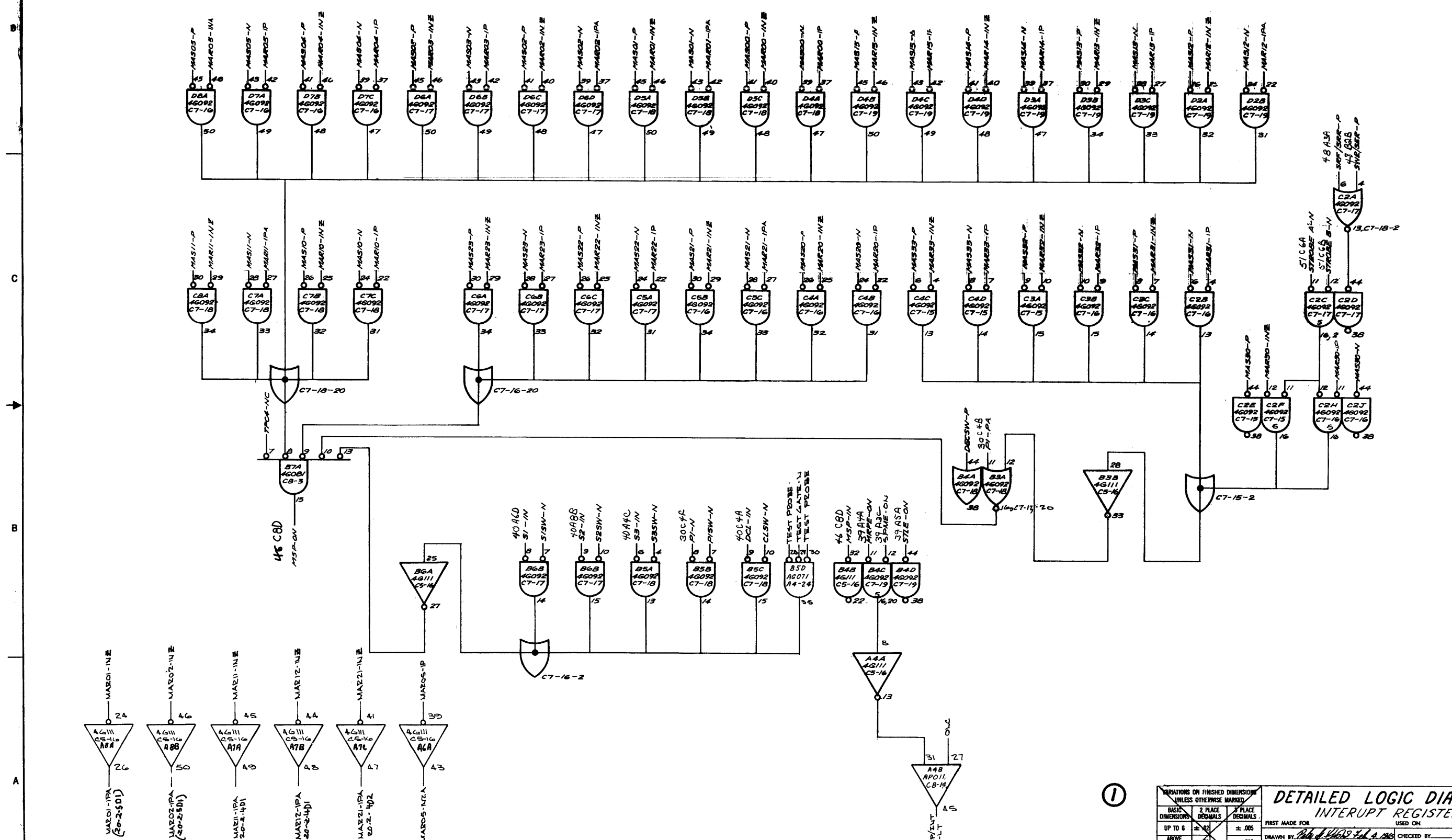
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED	
BASIC DIMENSIONS	2 PLACE DECIMALS
UP TO 6	± .02
6 TO 24	± .03
ABOVE 24	± .06
ANGULAR DIMENSIONS ± 1/2 DEG	
SEE PURCH SPEC. FOR STOCK TOLERANCES	

DETAILED LOGIC DIAGRAM	
INTERRUPT REGISTER	
FIRST MADE FOR N. 30922	USED ON 55442
DRAWN BY R. P. ...	CHECKED BY J. ...
DESIGNED BY R. ...	COMMUNITY CODE
RADIO CORPORATION OF AMERICA	
SIZE	SHEET 1 CONT'D ON SH 2

3301

SWITCH SIGNALS FROM "MAINT BOX"
 MAR -INZ SIGNALS ARE FROM PRINT 30

REVISIONS	
AP. BY	John D. Luce
DATE	March 2, 1965
ALL MARX-INZ SIGNALS WERE MARX-IN E CNV704 N.L.	
John D. Luce 11/1/66	
F.H. Berg 11/1/66	
	13



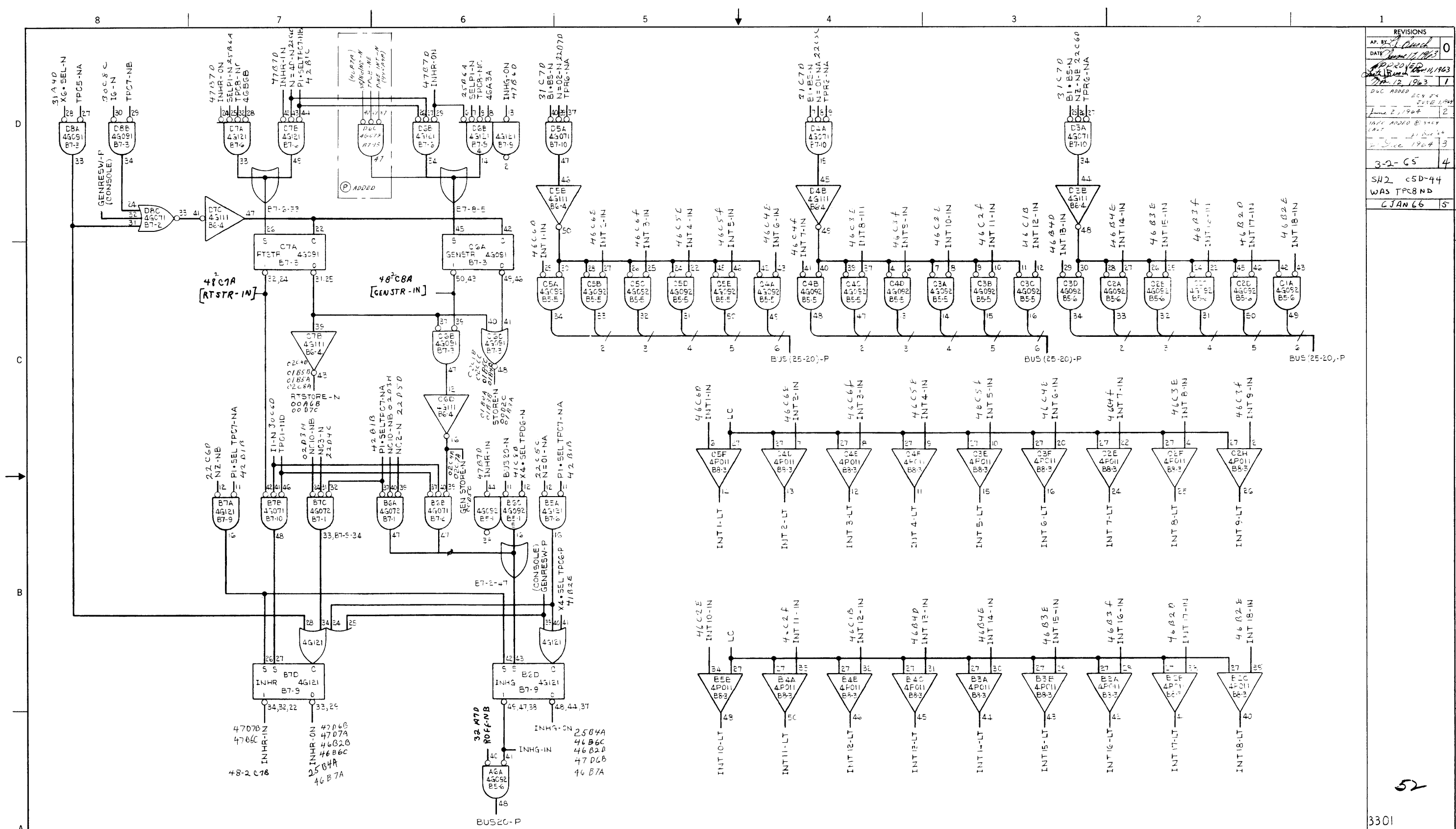
LOGIC ELEMENT INDEX	
4G111	A4-24
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4G113	
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4G115	
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4G118	
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4G198	
4G199	
4G200	

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8645946

DETAILED LOGIC DIAGRAM INTERUPT REGISTER																											
<table border="1"> <tr> <th colspan="2">VARIATIONS ON FINISHED DIMENSION UNLESS OTHERWISE MARKED</th> </tr> <tr> <th>BASIC DIMENSIONS</th> <th>2 PLACE DECIMALS</th> </tr> <tr> <td>UP TO 6</td> <td>± .005</td> </tr> <tr> <td>ABOVE 6 TO 24</td> <td>± .010</td> </tr> <tr> <td>ABOVE 24</td> <td>± .015</td> </tr> </table>	VARIATIONS ON FINISHED DIMENSION UNLESS OTHERWISE MARKED		BASIC DIMENSIONS	2 PLACE DECIMALS	UP TO 6	± .005	ABOVE 6 TO 24	± .010	ABOVE 24	± .015	<table border="1"> <tr> <th colspan="2">2 PLACE DECIMALS</th> </tr> <tr> <td>± .005</td> <td>± .010</td> </tr> <tr> <td>± .015</td> <td>± .020</td> </tr> </table>	2 PLACE DECIMALS		± .005	± .010	± .015	± .020	<table border="1"> <tr> <th colspan="2">MILITARY DIMENSIONS ± 1/2 DEG</th> </tr> <tr> <td>± .005</td> <td>± .010</td> </tr> <tr> <td>± .015</td> <td>± .020</td> </tr> </table>	MILITARY DIMENSIONS ± 1/2 DEG		± .005	± .010	± .015	± .020	<table border="1"> <tr> <th colspan="2">SEE PUNCH SPEC. FOR STOCK TOLERANCES</th> </tr> </table>	SEE PUNCH SPEC. FOR STOCK TOLERANCES	
VARIATIONS ON FINISHED DIMENSION UNLESS OTHERWISE MARKED																											
BASIC DIMENSIONS	2 PLACE DECIMALS																										
UP TO 6	± .005																										
ABOVE 6 TO 24	± .010																										
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2 PLACE DECIMALS																											
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MILITARY DIMENSIONS ± 1/2 DEG																											
± .005	± .010																										
± .015	± .020																										
SEE PUNCH SPEC. FOR STOCK TOLERANCES																											
FIRST MADE FOR		USED ON																									
DRAWN BY: <i>John D. Luce</i>		CHECKED BY:																									
DESIGNED BY: <i>John D. Luce</i>		COMMODITY CODE																									
RADIO CORPORATION OF AMERICA PALM BEACH PLANT		D 8645946																									
CODE IDENT NO. 49671		SIZE SHEET 2 CONT'D ON SH. F140L																									



REVISIONS	
AP. BY: <i>J. Quack</i>	0
DATE: <i>June 11, 1963</i>	
<i>ADD TO 1963</i>	
<i>DATE: 12, 1963</i>	1
<i>DATE: 12, 1964</i>	2
<i>DATE: 12, 1964</i>	3
3-2-65	4
SH2 cSD-44 WAS TPC8 ND	
1 JAN 66	5

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A, BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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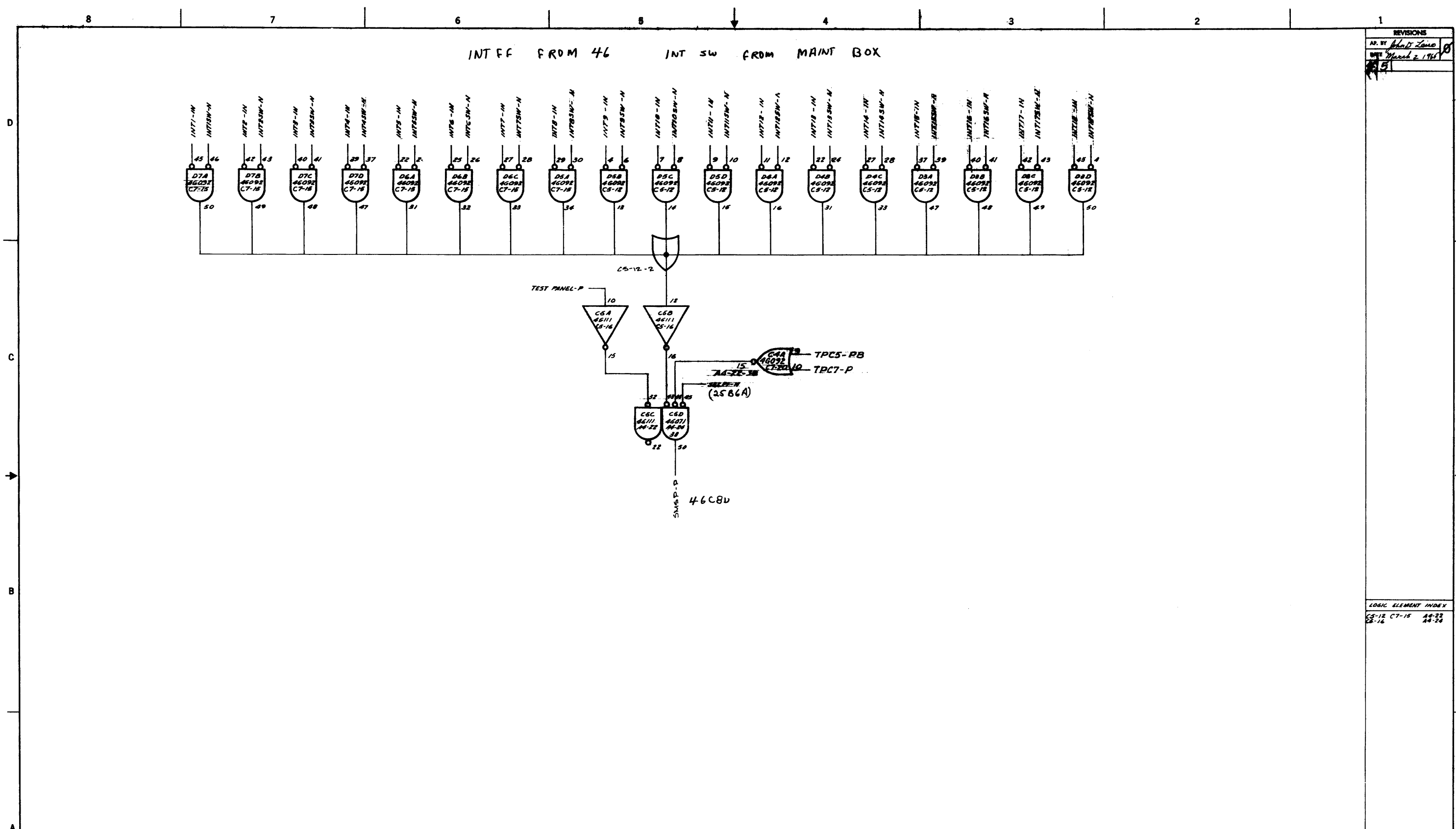
8645947

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	4 PLACE DECIMALS
UP TO 6	± .02	± .005	
ABOVE 6 TO 24	± .01	± .010	
ABOVE 24	± .06	± .015	
ANGULAR DIMENSIONS ± 1° D&G			
SEE PURCH SPEC FOR STOCK TOLERANCE.			

DETAILED LOGIC DIAGRAM		<i>48</i>
INTERRUPT CONTROL		<i>16</i>
FIRST MADE FOR <i>NI-30822</i>	USED ON <i>8541846</i>	<i>16</i>
DRAWN BY <i>S. Paul April 3, 1963</i>	CHECKED BY <i>June 19, 1963</i>	<i>16</i>
DESIGNED BY <i>William March 29, 1963</i>	COMMODITY CODE	<i>1708</i>
RADIO CORPORATION OF AMERICA		<i>146</i>
D 8645947		<i>7</i>
CODE IDENT NO. 45671		
SHEET 1	CONTD ON SH 2	

3301

52



REVISIONS	
AP. BY	<i>John D. Zano</i>
DATE	March 2, 1961
REV.	5

LOGIC ELEMENT INDEX	
C5-12	C7-15 44-22
C5-12	C5-12 44-22

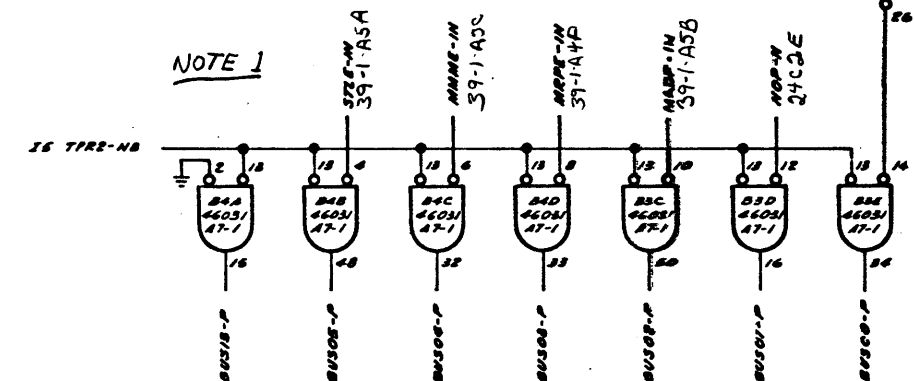
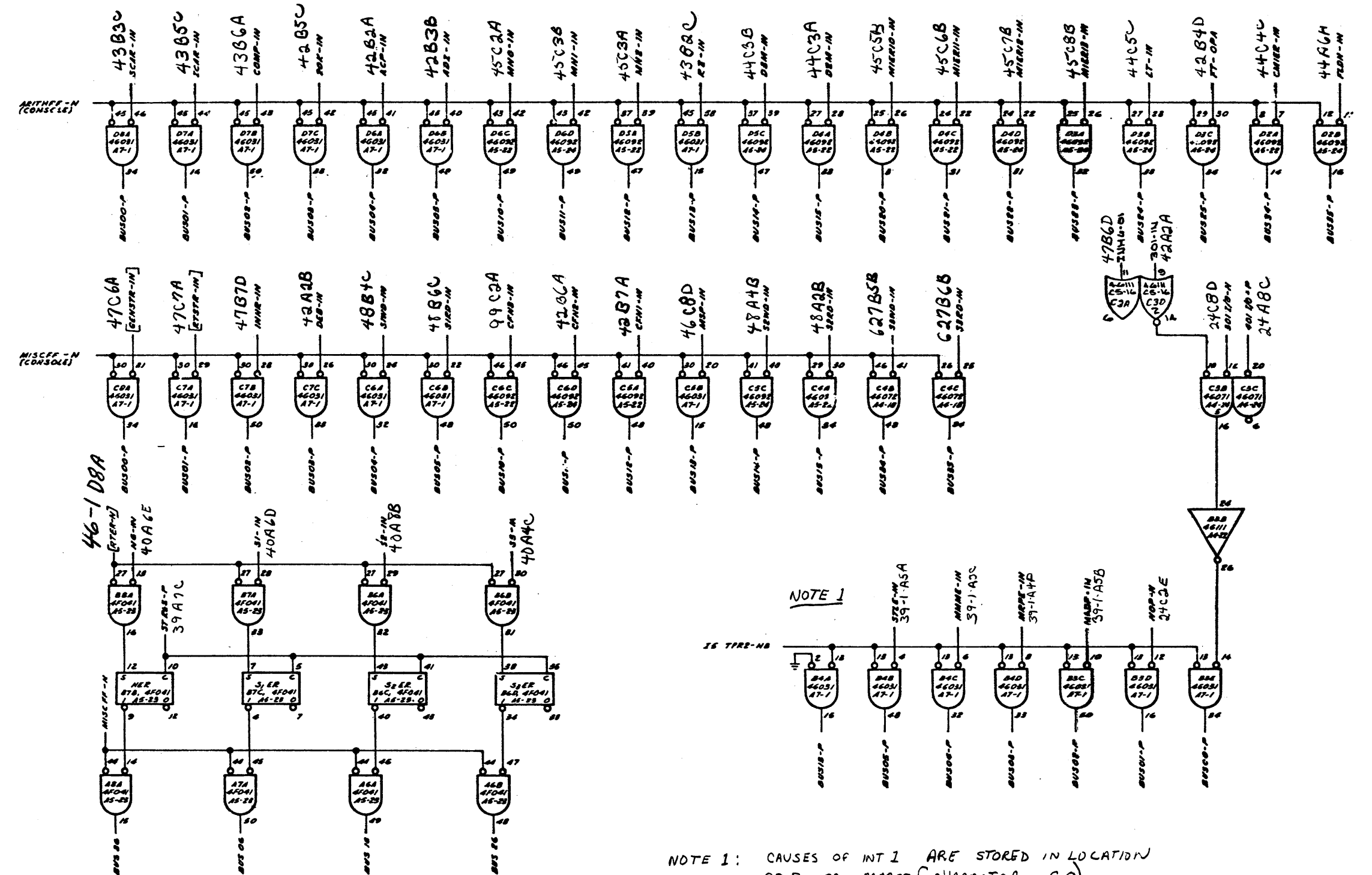
DIMENSIONS IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL INTERNAL THREADS TO BE CLASS 2A, BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8645947

TOLERANCES ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			DETAILED LOGIC DIAGRAM INTERRUPT CONTROL	
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	FIRST MADE FOR	USED ON
UP TO 6	± .02	± .005	DRAWN BY <i>John D. Zano</i>	CHECKED BY
ABOVE 6 TO 24	± .01	± .010	DESIGNED BY <i>John D. Zano</i>	COMMODITY CODE
ABOVE 24	± .06	± .015	RADIO CORPORATION OF AMERICA PALM BEACH PLANT	D 8645947
ANGULAR DIMENSIONS ± 1/2 DEG	SEE PURCH. SPEC. FOR STOCK TOLERANCES		CODE IDENT NO. 49671	SIZE SHEET 2 CONT'D ON SH. 171102

REVISIONS	
AP. BY John D. Lavin	0
DATE March 2, 1965	
67	



NOTE 1: CAUSES OF INT 1 ARE STORED IN LOCATION C1R OF MMM (CHARACTER CO). IF INT 1 OCCURS DURING I1 TO I5 OF A GENERAL INT, CAUSES WILL BE STORED IN C1R.

LOGIC ELEMENT INDEX			
4-22	5-22	7-1	CT-15
4-24	5-23	CT-16	
	5-24	CS-16	

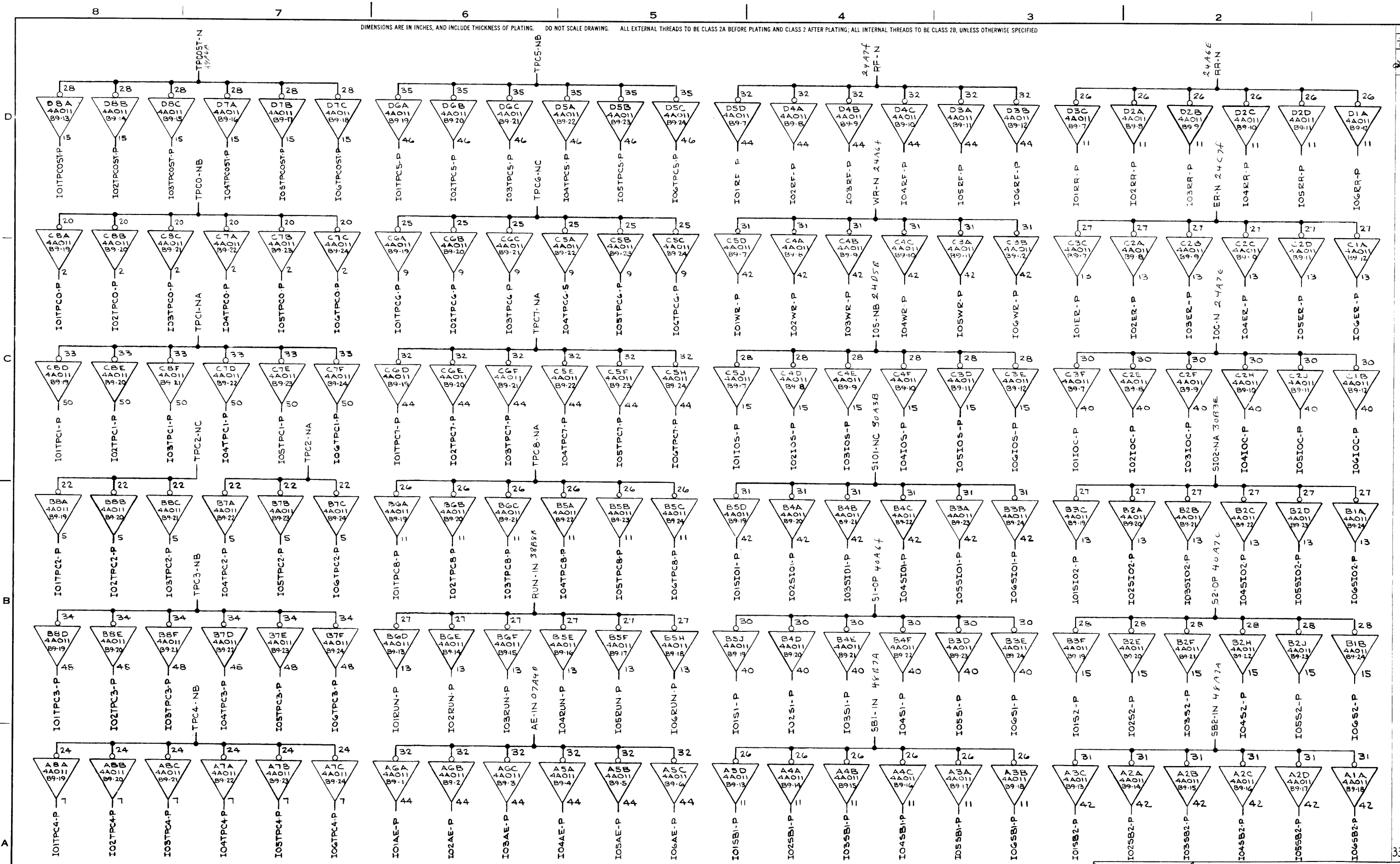
DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2A, UNLESS OTHERWISE SPECIFIED.

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8645948

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	± .02	± .005
ABOVE 6 TO 24	± .03	± .010
ABOVE 24	± .06	± .015
ANGULAR DIMENSIONS ± 1/4 DEG.		
SEE PURCH SPEC. FOR STOCK TOLERANCE		

DETAILED LOGIC DIAGRAM I/O INSTRUCTION CONTROL	
FIRST MADE FOR	USED ON
DRAWN BY <i>Ray P. 262, 1965</i>	CHECKED BY
DESIGNED BY <i>Ray P. 262, 1965</i>	COMMODITY CODE
RADIO CORPORATION OF AMERICA PALM BEACH PLANT	
D	8645948
SIZE SHEET 2	CURT'D OR BY FINAL
CODE IDENT NO. 49671	



REVISIONS
 AP. BY: [Signature]
 DATE: 11/16/51
 APPROVED: [Signature]
 DATE: Nov 11 1953
 12, 1963

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RADIO CORPORATION OF AMERICA, AND SHALL NOT BE REPRODUCED OR COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

VARIANCES ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED

BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 4	± .02	± .005
ABOVE 4 TO 24	± .03	± .010
ABOVE 24 TO 48	± .04	± .015
REGULAR DIMENSIONS > 24"		
SEE PURCH. SPEC. FOR STOCK TOLERANCE		

DETAILED LOGIC DIAGRAM
I/O TRANSMITTERS I
 FIRST MADE FOR MI-36002 USED ON 8541846
 DRAWN BY [Signature] CHECKED BY [Signature]
 DESIGNED BY [Signature] 11/16/51 COMMODITY CODE
 RADIO CORPORATION OF AMERICA
 CODE IDENT NO. 49671

8645949

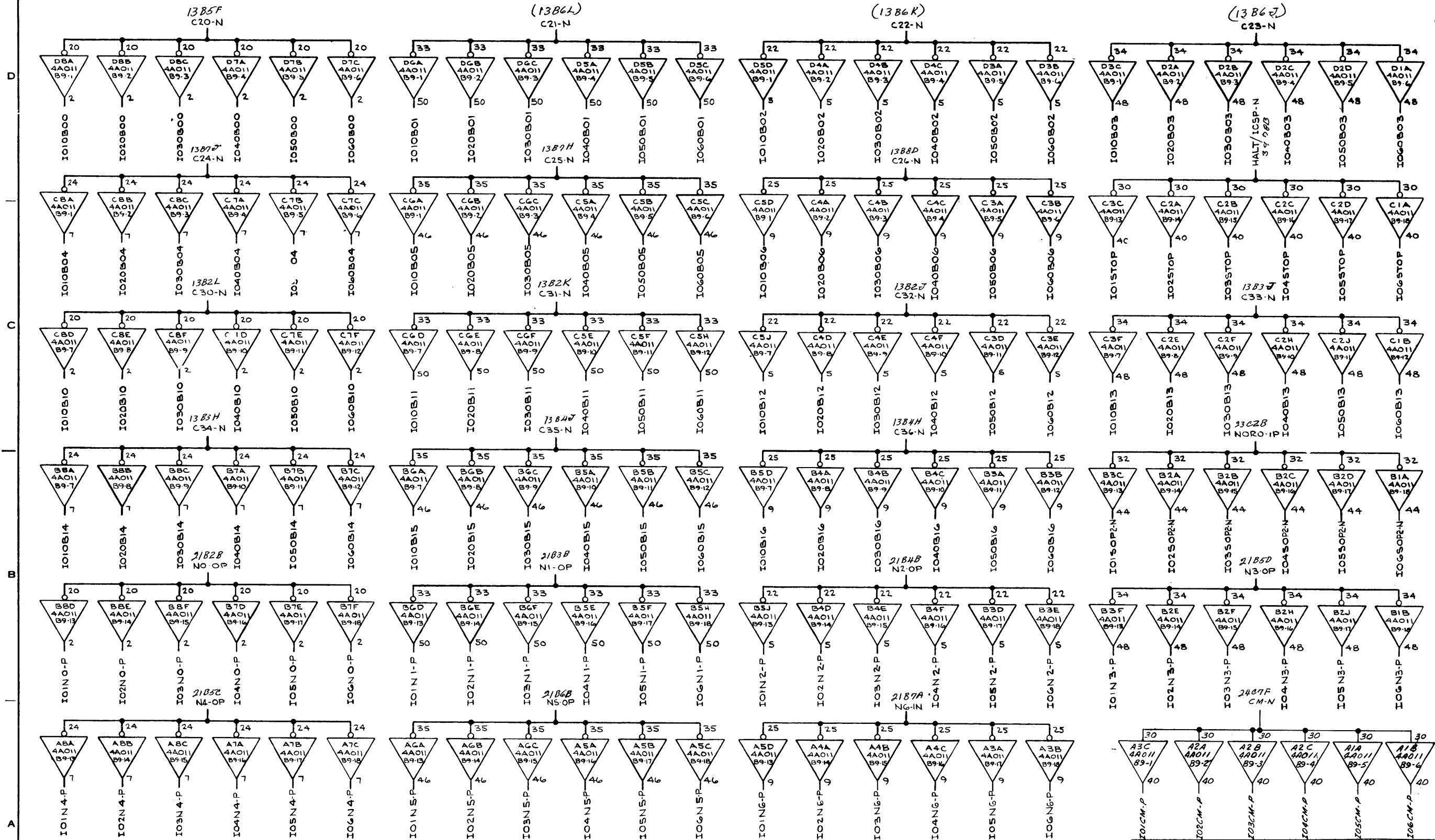
8645949

3301

54

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED

REVISIONS	
AP. BY: J. J. Bland	DATE: 11/17/63
BY: J. J. Bland	DATE: 11/17/63
BY: J. J. Bland	DATE: 11/17/63
BY: J. J. Bland	DATE: 11/17/63



VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSION	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 4	±.005	±.002
ABOVE 4 TO 24	±.010	±.005
ABOVE 24	±.015	±.010
ANGULAR DIMENSIONS 2"		

DETAILED LOGIC DIAGRAM
I/O TRANSMITTERS II

FIRST MADE FOR **MI-36822** USED ON **554K2AB**

DRAWN BY **J. J. Bland** CHECKED BY **J. J. Bland** DATE: 11/17/63

DESIGNED BY **J. J. Bland** COMMODITY CODE

RADIO CORPORATION OF AMERICA

CODE IDENT NO. 49671

8645950

8645950

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RADIO CORPORATION OF AMERICA, AND SHALL NOT BE REPRODUCED OR COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

8

7

6

5

4

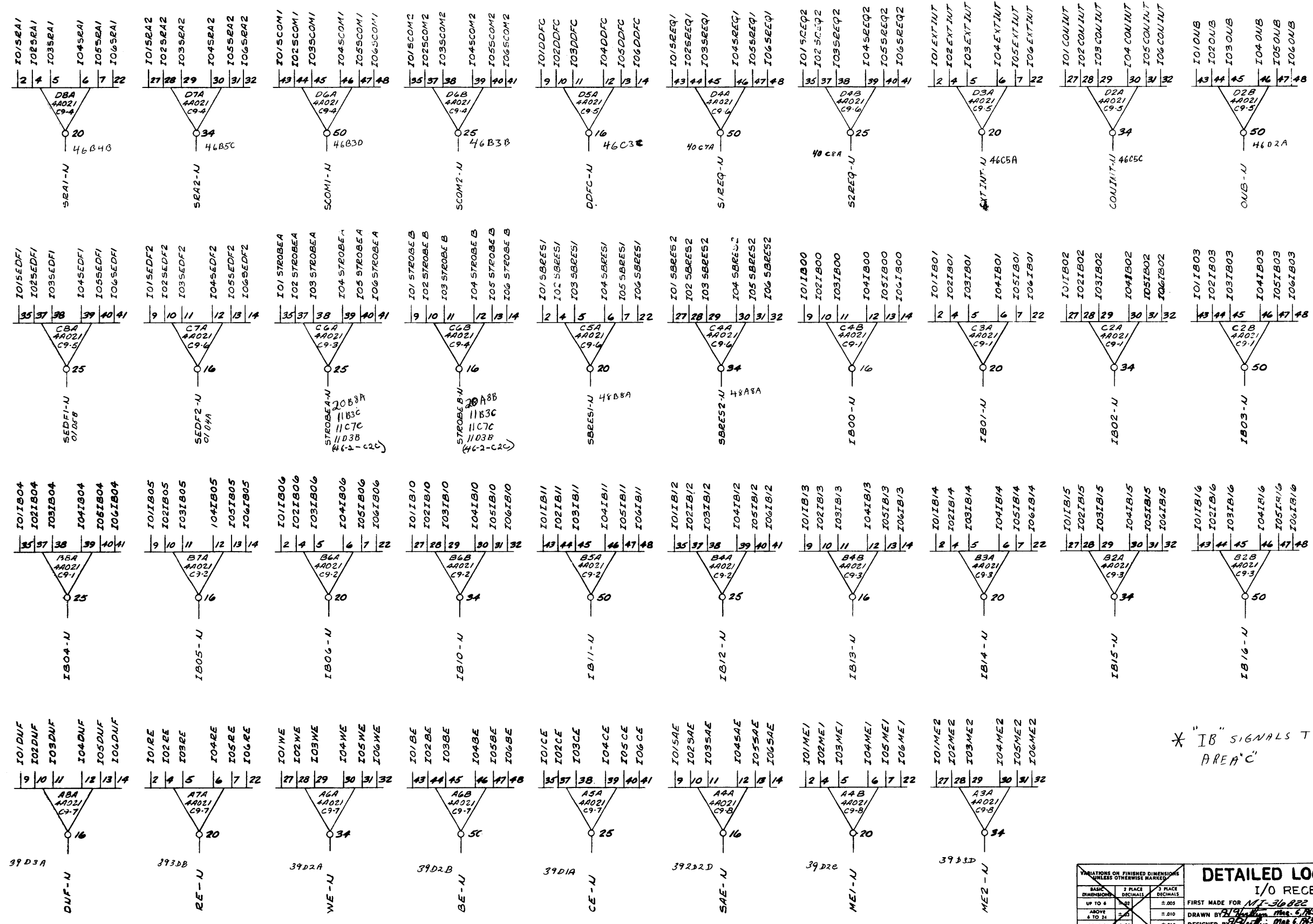
3

2

1

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED

REVISIONS	
AP. BY	J. B. Wood
DATE	Mar 17, 1963
APPROVED	<i>[Signature]</i>
DATE	Mar 12, 1963



* "IB" SIGNALS TO PRINT 19 AREA "C"

56

3301

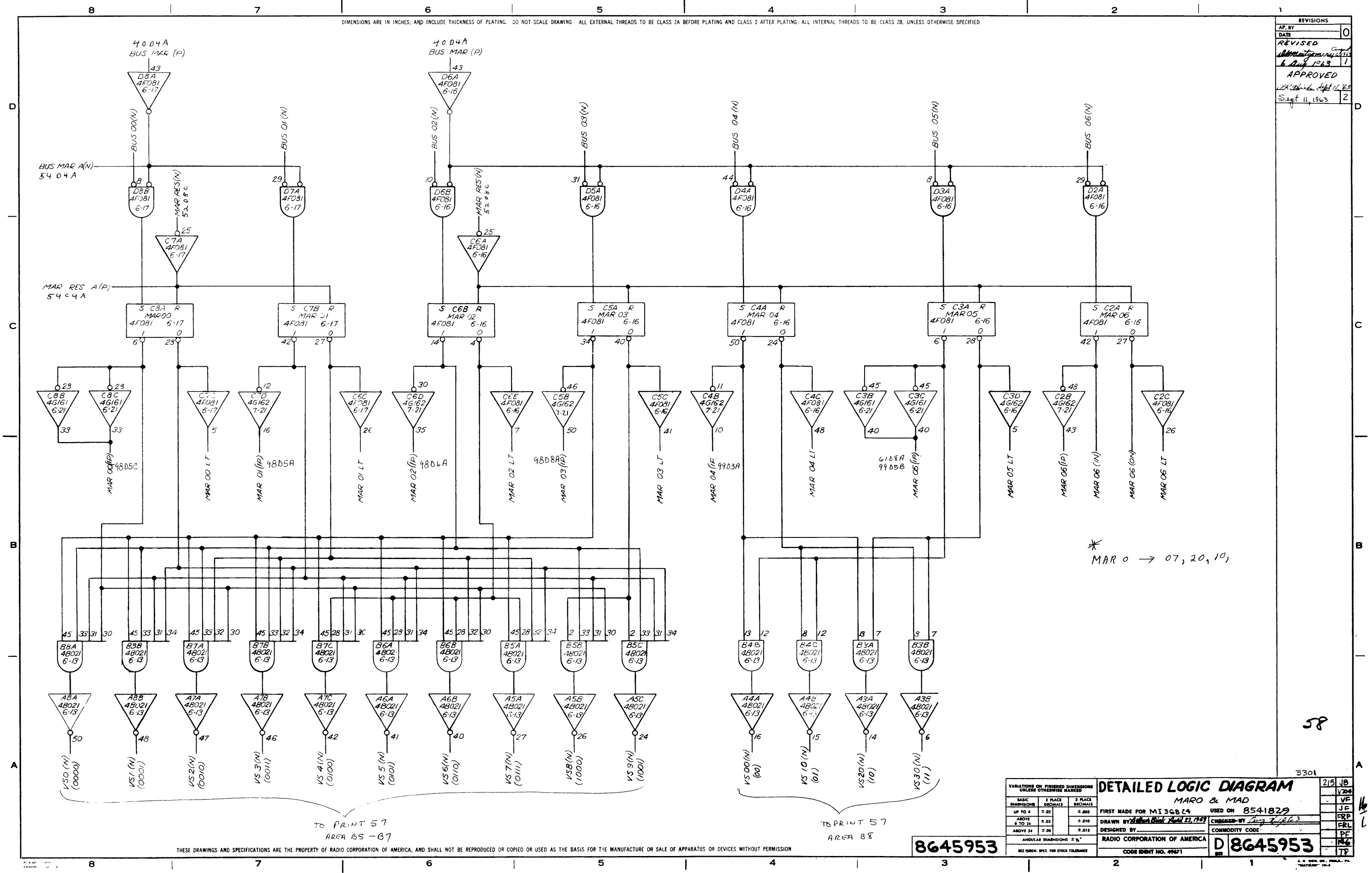
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RADIO CORPORATION OF AMERICA, AND SHALL NOT BE REPRODUCED OR COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

8645951

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	
UP TO 4	±.001	±.005	
ABOVE 4 TO 24	±.010	±.015	
ABOVE 24 TO 48	±.015	±.020	
REGULAR DIMENSIONS	±.005	±.010	
SEE PURCH SPEC FOR STOCK TOLERANCE			
DETAILED LOGIC DIAGRAM			
I/O RECEIVERS			
FIRST MADE FOR	MT-316822	USED ON	8541846
DRAWN BY	J. B. Wood	CHECKED BY	Mar 19, 1963
DESIGNED BY	J. B. Wood	COMMODITY CODE	
RADIO CORPORATION OF AMERICA		D	8645951
CODE IDENT NO. 49671		SIZE	

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	DATE
REVISOR	6 Aug 1963
APPROVED	Sept 11, 1963
2X 12-1-63	Sept 11, 1963



TO PRINT 57
AREA 85-87

TO PRINT 57
AREA 88

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RADIO CORPORATION OF AMERICA, AND SHALL NOT BE REPRODUCED OR COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

8645953

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			DETAILED LOGIC DIAGRAM	
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	MARO & MAD	
UP TO 4	±.02	±.005	FIRST MADE FOR MI 30824	USED ON 8541829
ABOVE 4 TO 24	±.03	±.010	DRAWN BY [Signature]	CHECKED BY [Signature]
ABOVE 24	±.04	±.015	DESIGNED BY	COMMODITY CODE
ANGULAR DIMENSIONS ± 1/4°			RADIO CORPORATION OF AMERICA	
SEE PURCH. SPEC. FOR STOCK TOLERANCE			CODE IDENT NO. 49471	

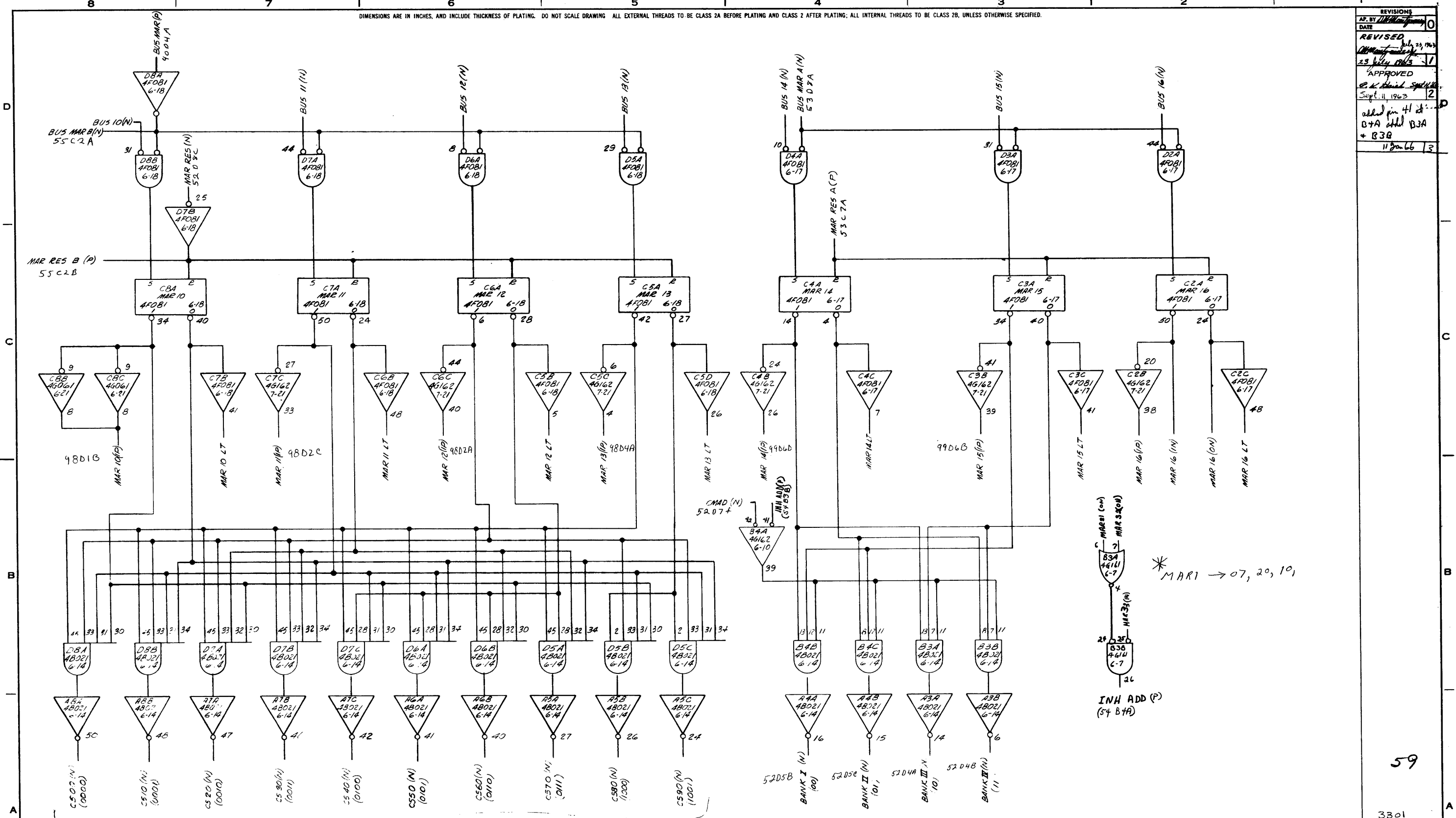
215 JB
V204
VE
JE
FRP
FRL
PF
TP

3301

58

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	0
DATE	
REVISED	1
APPROVED	2
added pin 41 & B+A add B3A + B3B	
11 Jan 66	3



* MAR 1 → 07, 20, 10

INH ADD (P)
(54 B7A)

TO PRINT 57
HECA D-8

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8645954

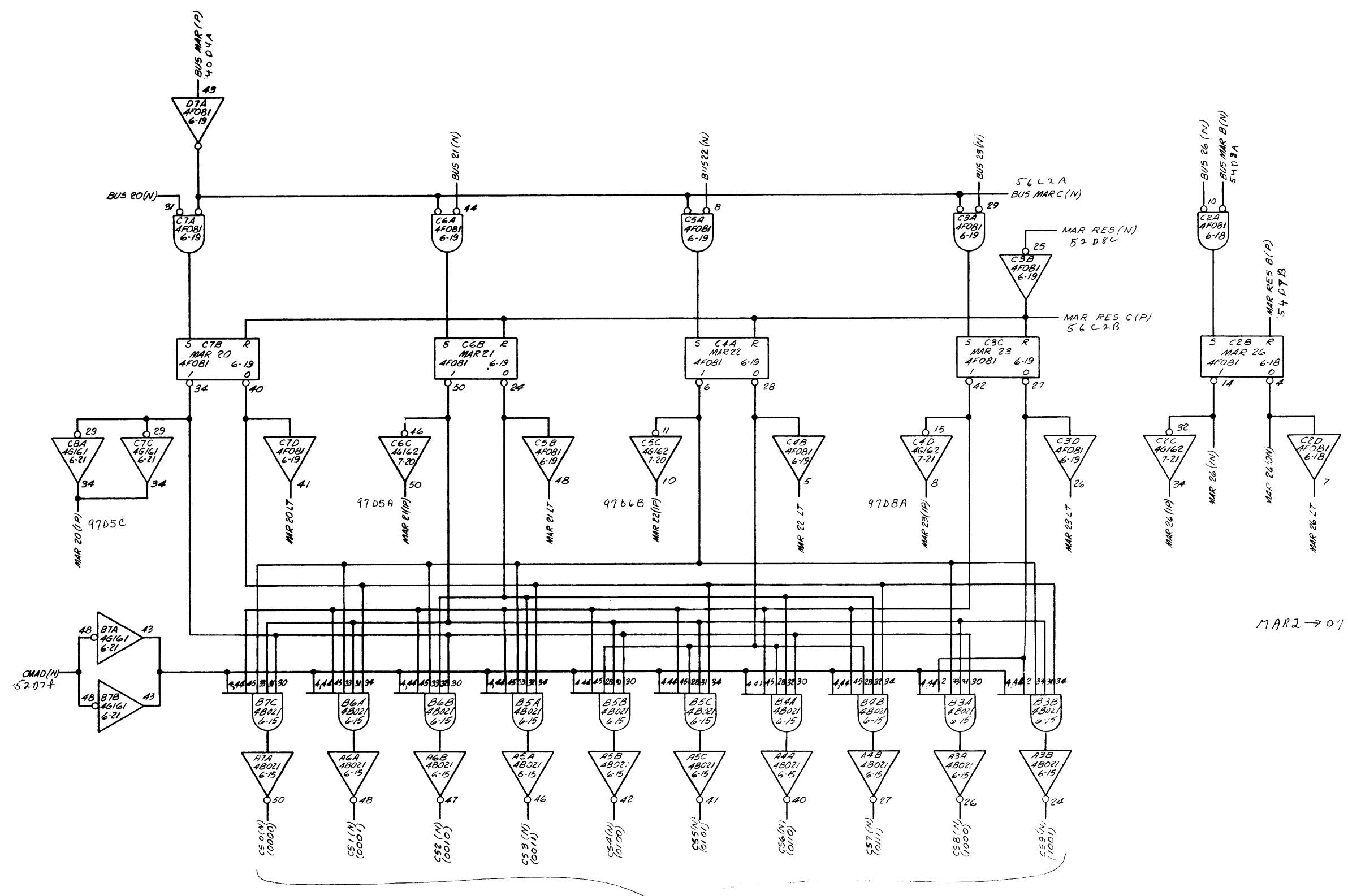
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			DETAILED LOGIC DIAGRAM	
BASIC DIMENSIONS	3 PLACE DECIMALS	PLACE CIMALS	MAR 1 & MAD	
UP TO 4	± .02	± .005	FIRST MADE FOR MI 36824	USED ON 8541829
ABOVE 4 TO 24	± .03	± .010	DRAWN BY	CHECKED BY
ABOVE 24	± .06	± .015	DESIGNED BY H. HEITZMAN	COMMODITY CODE
ANGULAR DIMENSIONS ± 1/2°			RADIO CORPORATION OF AMERICA	
SEE PURCH SPEC FOR STOCK TOLERANCE			CODE IDENT NO. 49471	

59

3301

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
DATE	BY
10	AP. BY [Signature]
1	REVISOR [Signature]
1	APPROVED [Signature]
2	APPROVED [Signature]



MAR 2 → 07, 20, 09

100 CURRENT SWITCHES

10 PRINT S7
AREA "D5-D8"

60

3301

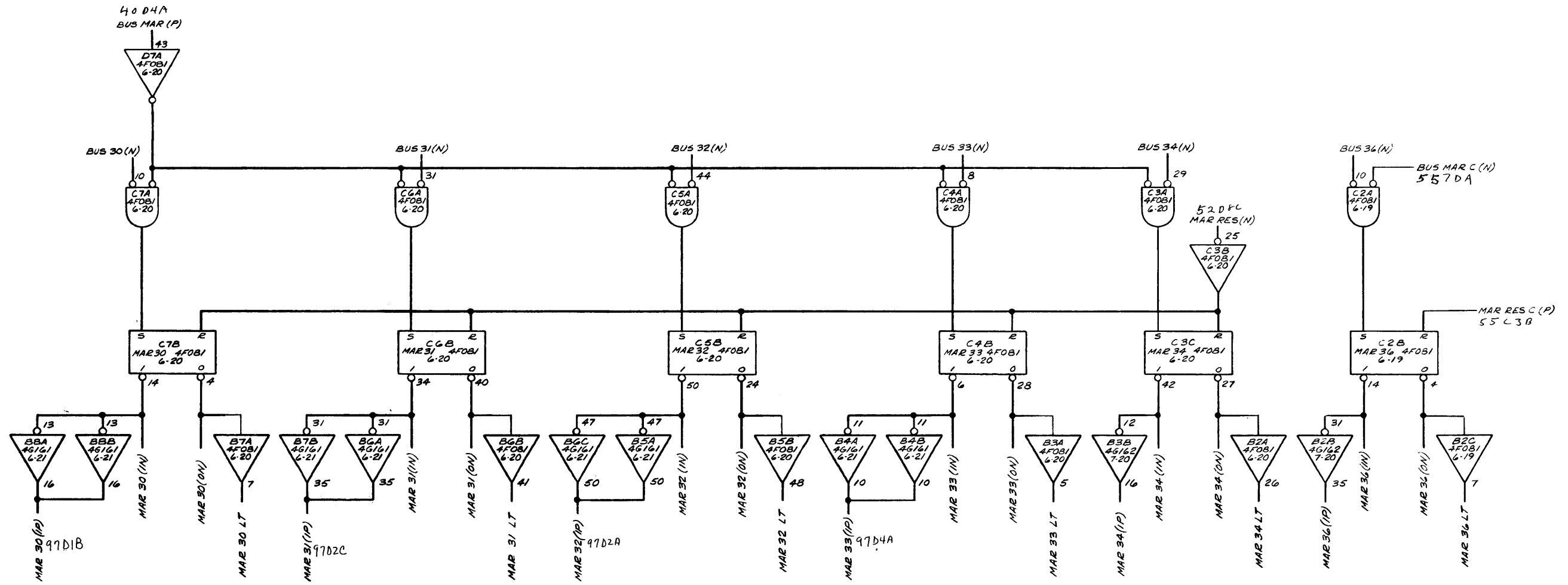
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			DETAILED LOGIC DIAGRAM	
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	FIRST MADE FOR MI 36224	USED ON 8541823
UP TO 4	± .02	± .005	DRAWN BY [Signature]	CHECKED BY [Signature]
6 TO 24	± .03	± .010	DESIGNED BY [Signature]	COMMODITY CODE
ABOVE 24	± .06	± .015	RADIO CORPORATION OF AMERICA	
ANGULAR DIMENSIONS ± 1/2°			D 8645955	
SEE PURCH SPEC FOR STOCK TOLERANCE			CODE IDENT NO. 49471	

8645955

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DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	F. Sullivan
DATE	SEP 23, 1963
	0



MAR 3 -> 07; 20, 09;

61

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	3 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 4	±.02	±.005
ABOVE 4 TO 24	±.03	±.010
ABOVE 24	±.04	±.015
ANGULAR DIMENSIONS ± 1/2°		
SEE PARTIAL SPEC. FOR STOCK TOLERANCE		

DETAILED LOGIC DIAGRAM		2/5
MAR 3 & MAD		140
FIRST MADE FOR M1 36824 USED ON		PF
DESIGNED BY	CHECKED BY	16
DESIGNED BY: [Signature]	CHECKED BY: [Signature]	16
RADIO CORPORATION OF AMERICA		16
COMMODITY CODE		16
CODE IDENT NO. 49671		16

8645956

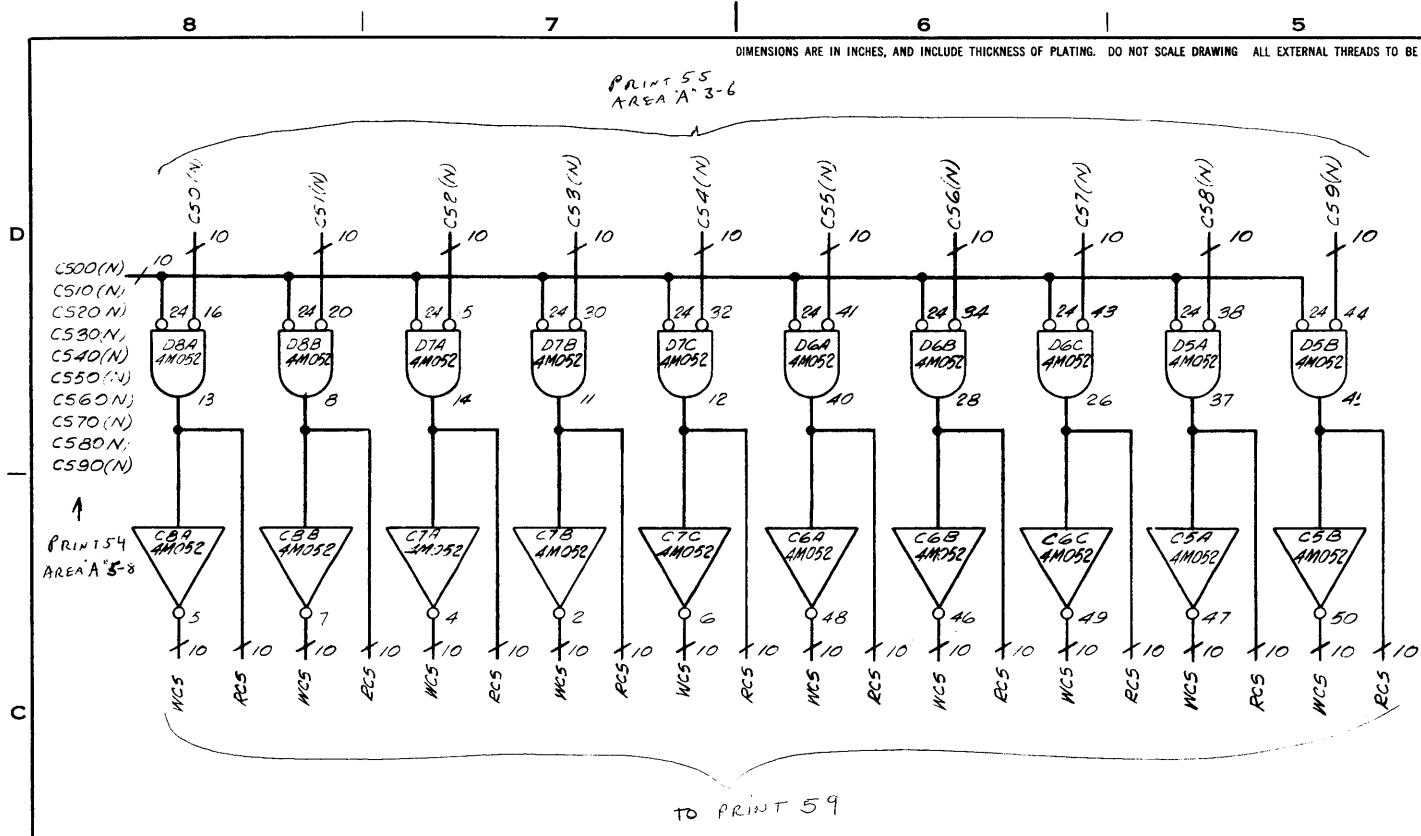
8645956

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J. H. WELLS CO., PHILA., PA. "MILITARY" FILE

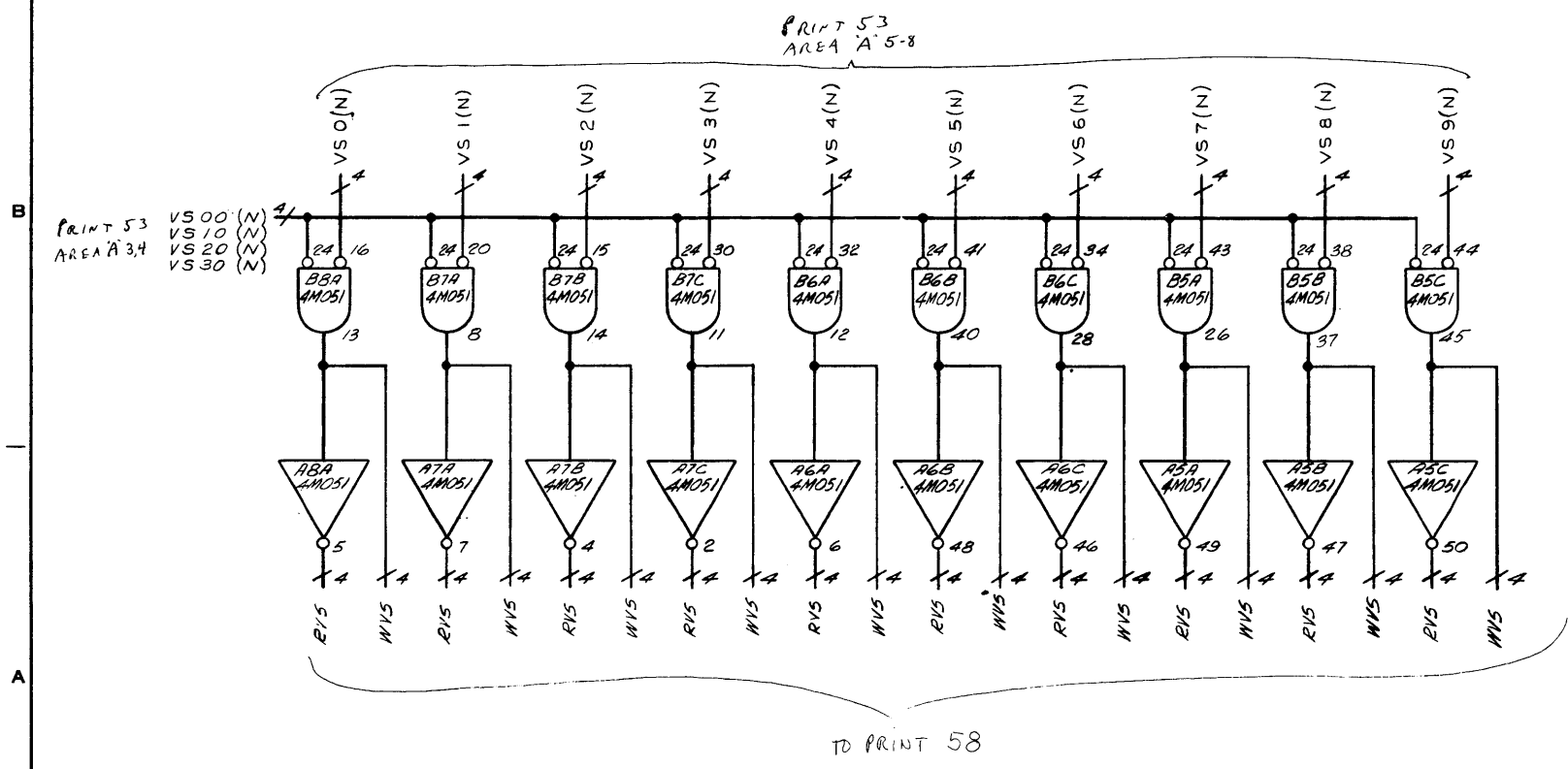
DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	DATE
0	
1	5 Sept. 16, 1963



	WCS00	WCS10	WCS20	WCS30	WCS40	WCS50	WCS60	WCS70	WCS80	WCS90
0	7-15-5	7-14-5	7-13-5	7-12-5	7-11-5	7-10-5	7-9-5	7-8-5	7-7-5	7-6-5
1	7-15-7	7-14-7	7-13-7	7-12-7	7-11-7	7-10-7	7-9-7	7-8-7	7-7-7	7-6-7
2	7-15-4	7-14-4	7-13-4	7-12-4	7-11-4	7-10-4	7-9-4	7-8-4	7-7-4	7-6-4
3	7-15-2	7-14-2	7-13-2	7-12-2	7-11-2	7-10-2	7-9-2	7-8-2	7-7-2	7-6-2
4	7-15-6	7-14-6	7-13-6	7-12-6	7-11-6	7-10-6	7-9-6	7-8-6	7-7-6	7-6-6
5	7-15-48	7-14-48	7-13-48	7-12-48	7-11-48	7-10-48	7-9-48	7-8-48	7-7-48	7-6-48
6	7-15-46	7-14-46	7-13-46	7-12-46	7-11-46	7-10-46	7-9-46	7-8-46	7-7-46	7-6-46
7	7-15-49	7-14-49	7-13-49	7-12-49	7-11-49	7-10-49	7-9-49	7-8-49	7-7-49	7-6-49
8	7-15-47	7-14-47	7-13-47	7-12-47	7-11-47	7-10-47	7-9-47	7-8-47	7-7-47	7-6-47
9	7-15-50	7-14-50	7-13-50	7-12-50	7-11-50	7-10-50	7-9-50	7-8-50	7-7-50	7-6-50

	RCS00	RCS10	RCS20	RCS30	RCS40	RCS50	RCS60	RCS70	RCS80	RCS90
0	7-15-13	7-14-13	7-13-13	7-12-13	7-11-13	7-10-13	7-9-13	7-8-13	7-7-13	7-6-13
1	7-15-8	7-14-8	7-13-8	7-12-8	7-11-8	7-10-8	7-9-8	7-8-8	7-7-8	7-6-8
2	7-15-14	7-14-14	7-13-14	7-12-14	7-11-14	7-10-14	7-9-14	7-8-14	7-7-14	7-6-14
3	7-15-11	7-14-11	7-13-11	7-12-11	7-11-11	7-10-11	7-9-11	7-8-11	7-7-11	7-6-11
4	7-15-12	7-14-12	7-13-12	7-12-12	7-11-12	7-10-12	7-9-12	7-8-12	7-7-12	7-6-12
5	7-15-40	7-14-40	7-13-40	7-12-40	7-11-40	7-10-40	7-9-40	7-8-40	7-7-40	7-6-40
6	7-15-28	7-14-28	7-13-28	7-12-28	7-11-28	7-10-28	7-9-28	7-8-28	7-7-28	7-6-28
7	7-15-26	7-14-26	7-13-26	7-12-26	7-11-26	7-10-26	7-9-26	7-8-26	7-7-26	7-6-26
8	7-15-37	7-14-37	7-13-37	7-12-37	7-11-37	7-10-37	7-9-37	7-8-37	7-7-37	7-6-37
9	7-15-45	7-14-45	7-13-45	7-12-45	7-11-45	7-10-45	7-9-45	7-8-45	7-7-45	7-6-45



	WVS00	WVS10	WVS20	WVS30
0	7-19-13	7-18-13	7-17-13	7-16-13
1	7-19-8	7-18-8	7-17-8	7-16-8
2	7-19-14	7-18-14	7-17-14	7-16-14
3	7-19-11	7-18-11	7-17-11	7-16-11
4	7-19-12	7-18-12	7-17-12	7-16-12
5	7-19-40	7-18-40	7-17-40	7-16-40
6	7-19-28	7-18-28	7-17-28	7-16-28
7	7-19-26	7-18-26	7-17-26	7-16-26
8	7-19-37	7-18-37	7-17-37	7-16-37
9	7-19-45	7-18-45	7-17-45	7-16-45

	RV500	RV510	RV520	RV530
0	7-19-5	7-18-5	7-17-5	7-16-5
1	7-19-7	7-18-7	7-17-7	7-16-7
2	7-19-4	7-18-4	7-17-4	7-16-4
3	7-19-2	7-18-2	7-17-2	7-16-2
4	7-19-6	7-18-6	7-17-6	7-16-6
5	7-19-48	7-18-48	7-17-48	7-16-48
6	7-19-46	7-18-46	7-17-46	7-16-46
7	7-19-49	7-18-49	7-17-49	7-16-49
8	7-19-47	7-18-47	7-17-47	7-16-47
9	7-19-50	7-18-50	7-17-50	7-16-50

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8645957

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE SPECIFIED		DETAILED LOGIC DIAGRAM		275 JB
BASIC DIMENSIONS	±.005	3 PLACES	±.005	J/F
UP TO 4	±.01	4 PLACES	±.005	FRA
4 TO 24	±.02	5 PLACES	±.010	FRP
ABOVE 24	±.03	6 PLACES	±.015	VP
ANGULAR DIMENSIONS ±.1°		DRAWN BY: <i>[Signature]</i>		DATE: 5 Sept. 16, 1963
SEE FIGURE, SPEC. FOR STOCK VALUES		DESIGNED BY: <i>[Signature]</i>		COMMODITY CODE
RADIO CORPORATION OF AMERICA		8645957		8645957

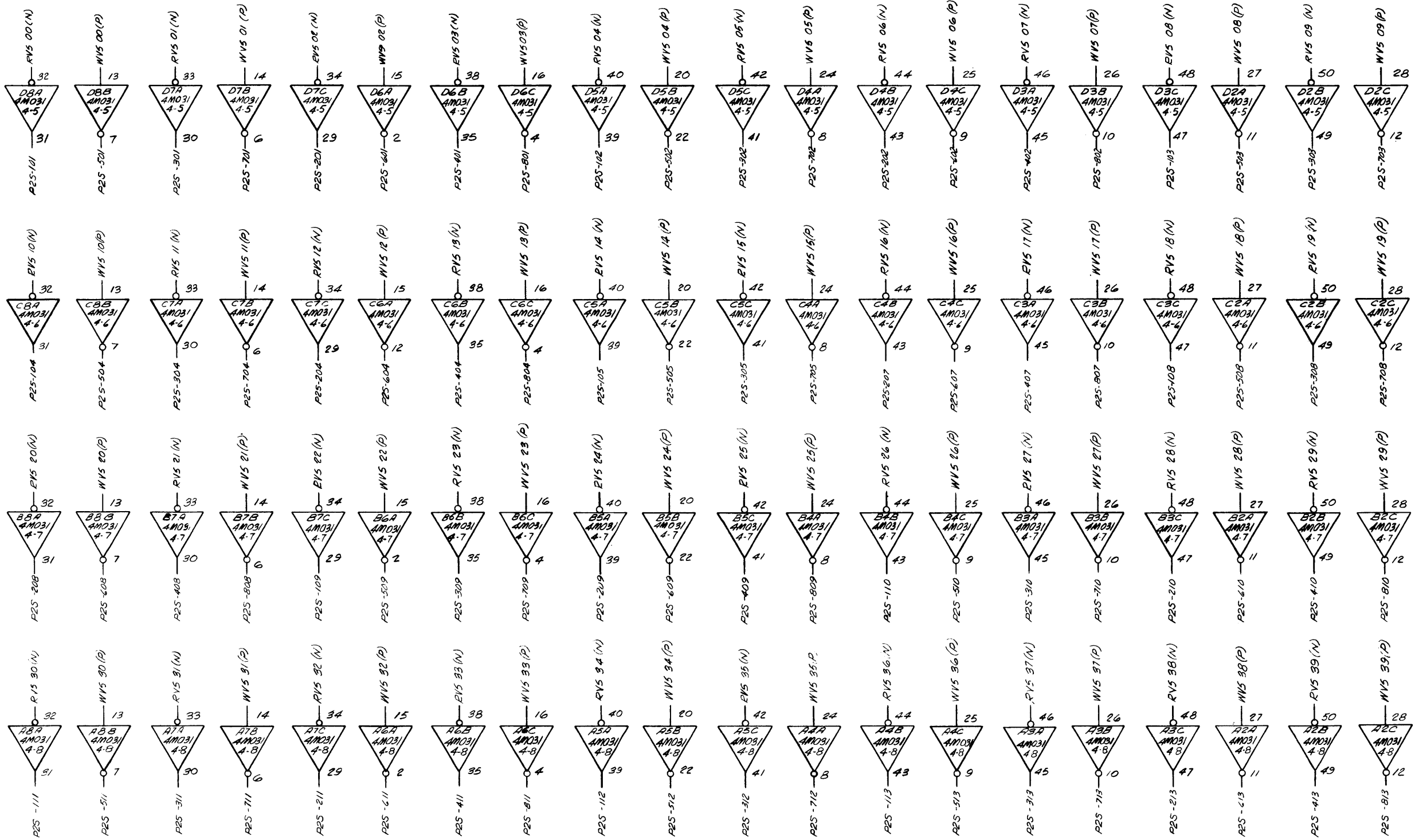
3301

62

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

ALL INPUTS ARE FROM PRINT 57

REVISED
AP. 27 1963
DATE: 07.23.1963



63

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			3301	
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	3301	
UP TO 4	±.25	±.003	215 JB	
ABOVE 4 TO 24	±.25	±.010	46	
ABOVE 24	±.25	±.015	16	
ANGULAR DIMENSIONS ± 1/2°			16	
SEE PURCH. SPEC. FOR STOCK TOLERANCE			16	
DETAILED LOGIC DIAGRAM READ & WRITE VOLTAGE SWITCHES			FIRST MADE FOR _____ USED ON _____	
			CHECKED BY <i>23.1963</i> DESIGNED BY _____ COMMODITY CODE _____	
RADIO CORPORATION OF AMERICA CAMDEN, N.J. CODE IDENT. NO. 49671			D 8645958 822	

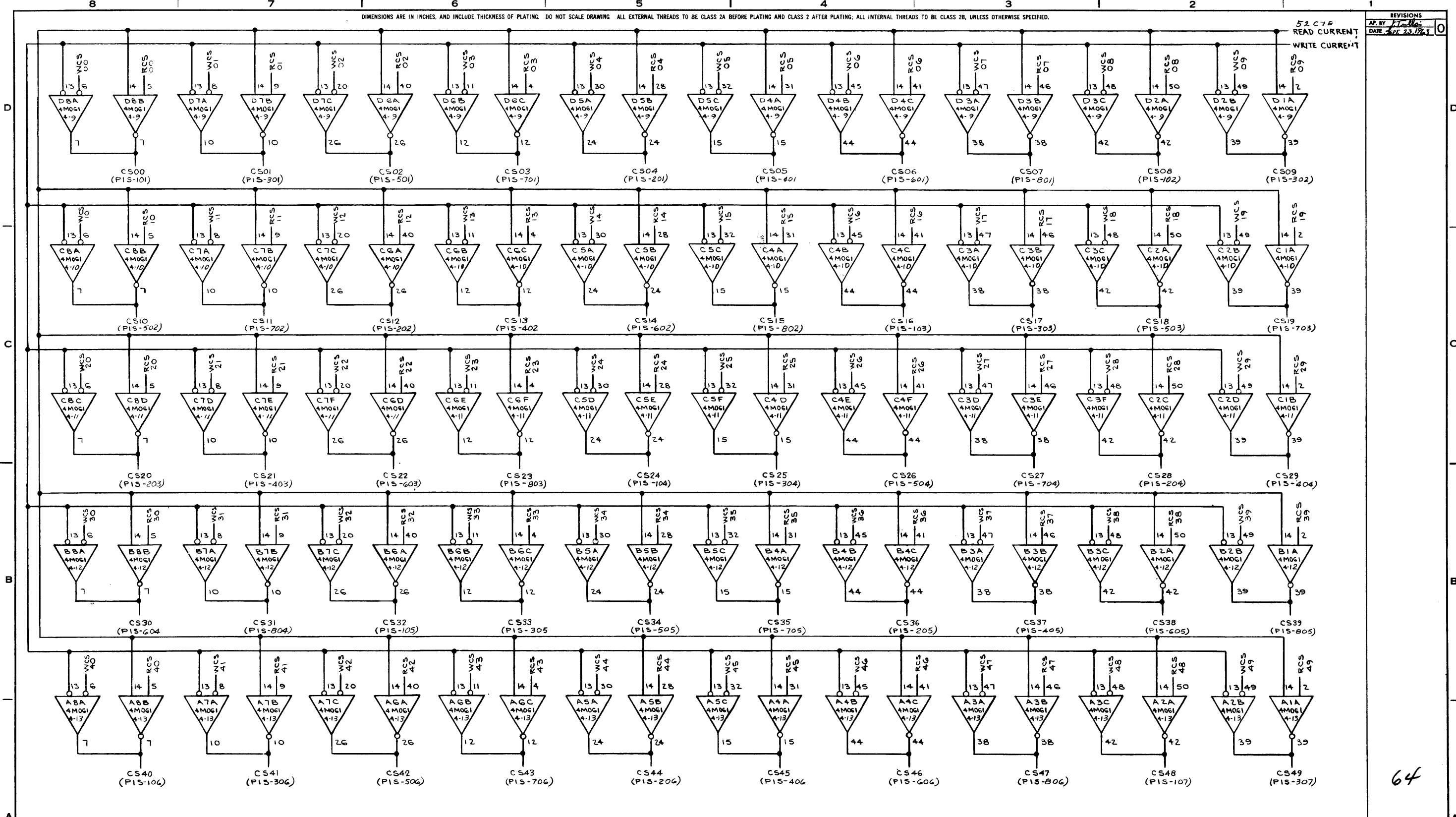
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8645958

16-6

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	DATE
1	APR 23 1963



ALL INPUTS NOT KEYPED ARE FROM PRINT 57

64

VARIATIONS ON PREFERRED DIMENSIONS UNLESS OTHERWISE INDICATED		3301	
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	
UP TO 6	±.02	±.006	
ABOVE 6 TO 24	±.03	±.010	
ABOVE 24	±.04	±.015	
ANGULAR DIMENSIONS ±1°		RADIO CORPORATION OF AMERICA	
SEE PARTS SPEC. FOR SPACE TOLERANCES		CODE IDENT. NO. 49671	

3301

DETAILED LOGIC DIAGRAM

READ WRITE CURRENT SWITCHES

FIRST MADE FOR MI-36824 USED ON

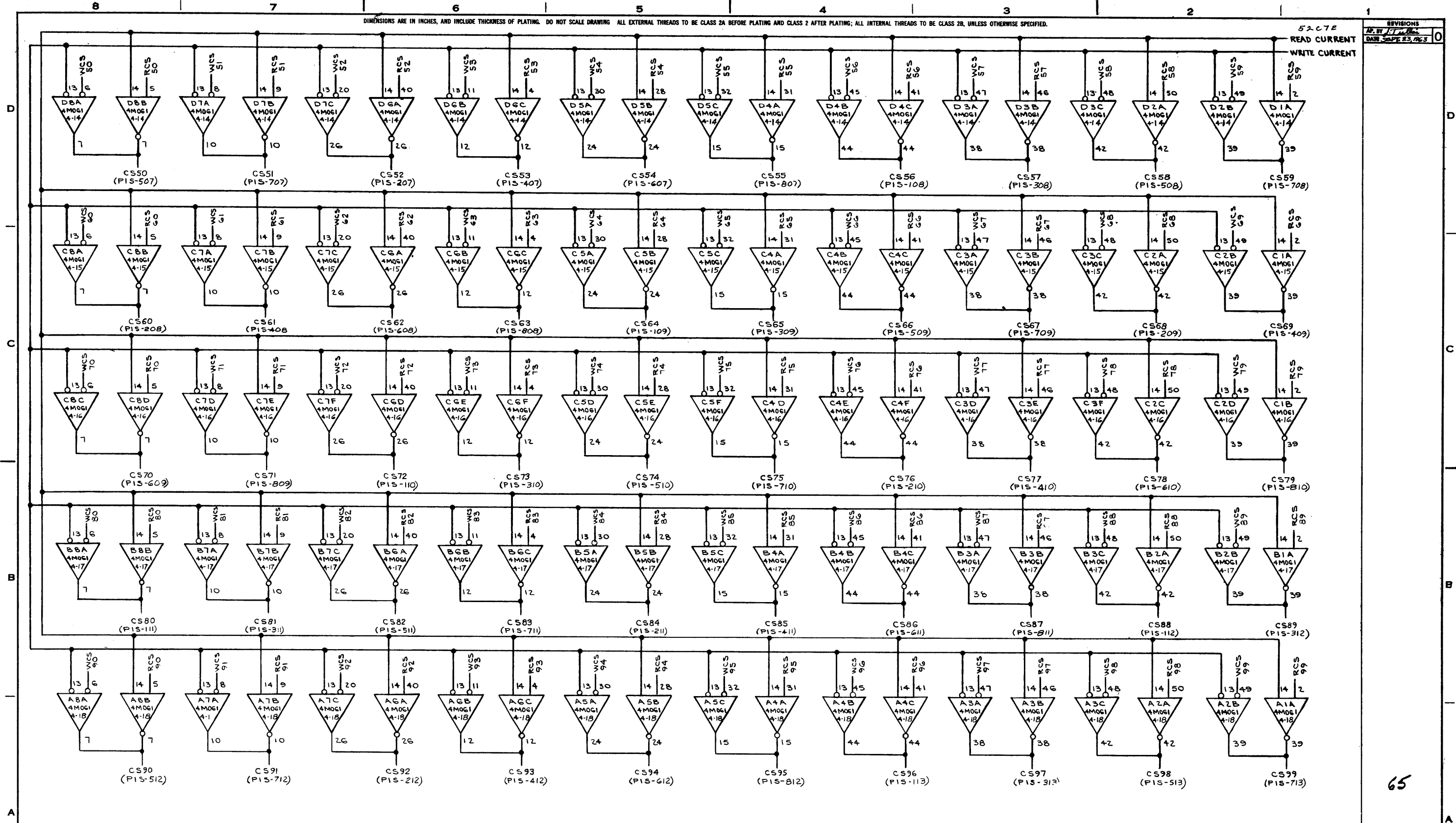
DRAWN BY: [Signature] AP. BY: [Signature] CHECKED BY: [Signature]

DESIGNED BY: [Signature] COMMODITY CODE

8645959

D 8645959

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REVISIONS	
AP. 11 1963	0
DAW. 5/23/63	

ALL INPUTS NOT KEYED
ARE FROM PRINT 57

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8645960

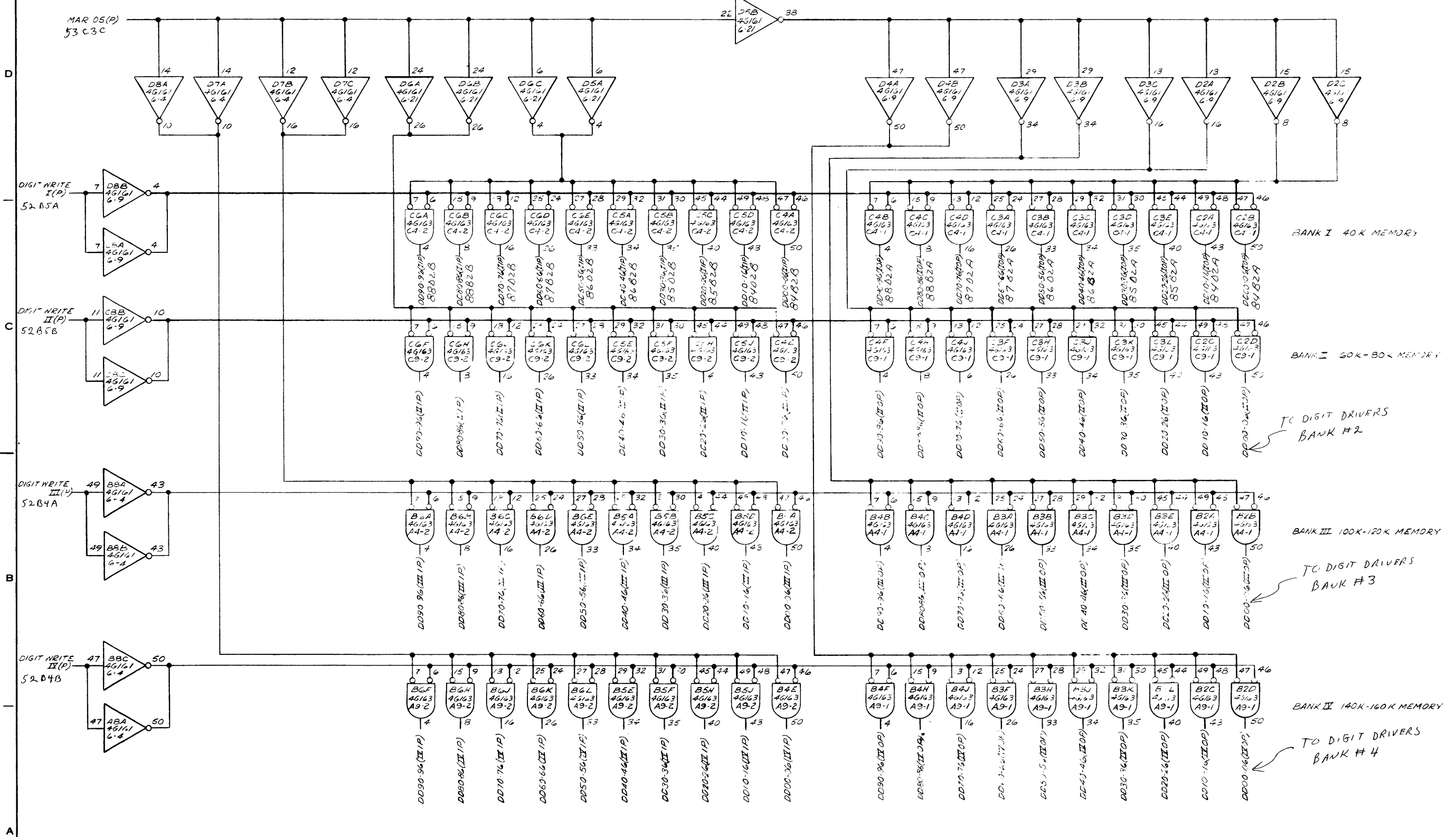
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		3301	
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	
UP TO 6	±.02	±.005	
6 TO 24	±.03	±.010	
ABOVE 24	±.04	±.015	
ANGULAR DIMENSIONS ± 1/2°		SEE PUNCH SPEC. FOR STOCK TOLERANCE	
DETAILED LOGIC DIAGRAM READ WRITE CURRENT SWITCHES		FIRST MADE FOR M1-36824	USED ON
		DRAWN BY: <i>W. J. ...</i> AP. 15 1963	CHECKED BY: <i>... 23/1/63</i>
DESIGNED BY: <i>...</i>		COMMODITY CODE	
RADIO CORPORATION OF AMERICA		D 8645960	
CODE IDENT. NO. 49671		REV.	

65

3301

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	0
DATE	SEPT. 24, 1963
4G163 GATES WERE	
4G162.	
J. Fuller ECN-15	
Nov. 11, 1963	
Nov. 11, 1963	



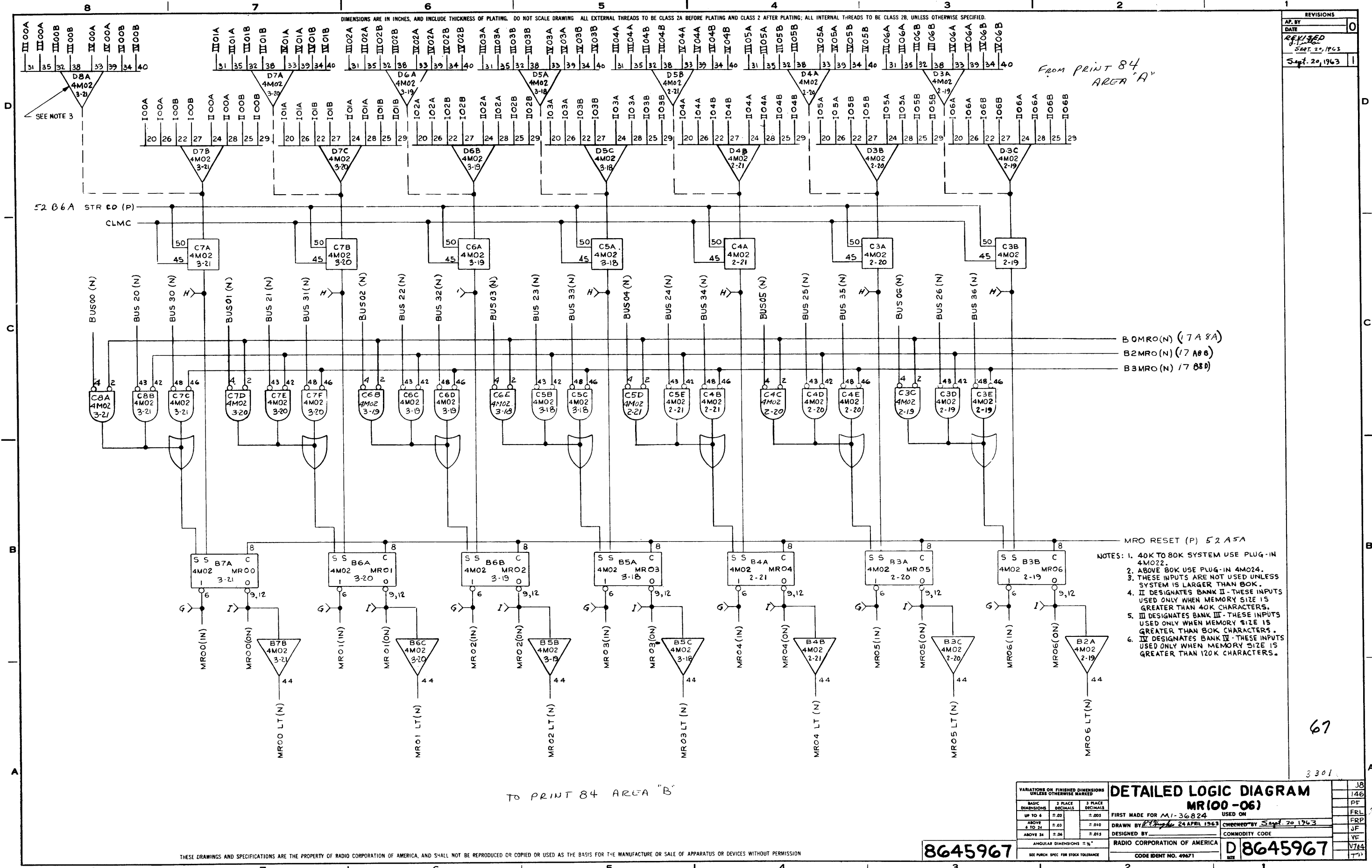
66

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		3 PLACE DECIMALS		1 PLACE DECIMALS	
BASIC DIMENSIONS	±.02	±.005	±.005	±.005	±.005
UP TO 4	±.02	±.010	±.010	±.010	±.010
ABOVE 4 TO 24	±.03	±.015	±.015	±.015	±.015
ABOVE 24	±.04	±.020	±.020	±.020	±.020

DETAILED LOGIC DIAGRAM		213	58
3301 DIGIT DRIVER SELECTION		146	FF
FIRST MADE FOR MI 36824		1764	JF
DRAWN BY <i>[Signature]</i>		FR	FE
DESIGNED BY <i>[Signature]</i>		FE	FE
CHECKED BY <i>[Signature]</i>		FE	FE
RADIO CORPORATION OF AMERICA		FE	FE
COMMODITY CODE		FE	FE
D 8645961		FE	FE
CODE IDENT NO. 49671		FE	FE
SIZE		FE	FE

8645961

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REVISIONS	
AP. BY	0
DATE	
REVISED	
SEPT. 20, 1963	
Sept. 20, 1963	

B0MRO(N) (7A 8A)
 B2MRO(N) (17A 8B)
 B3MRO(N) (17B 8D)

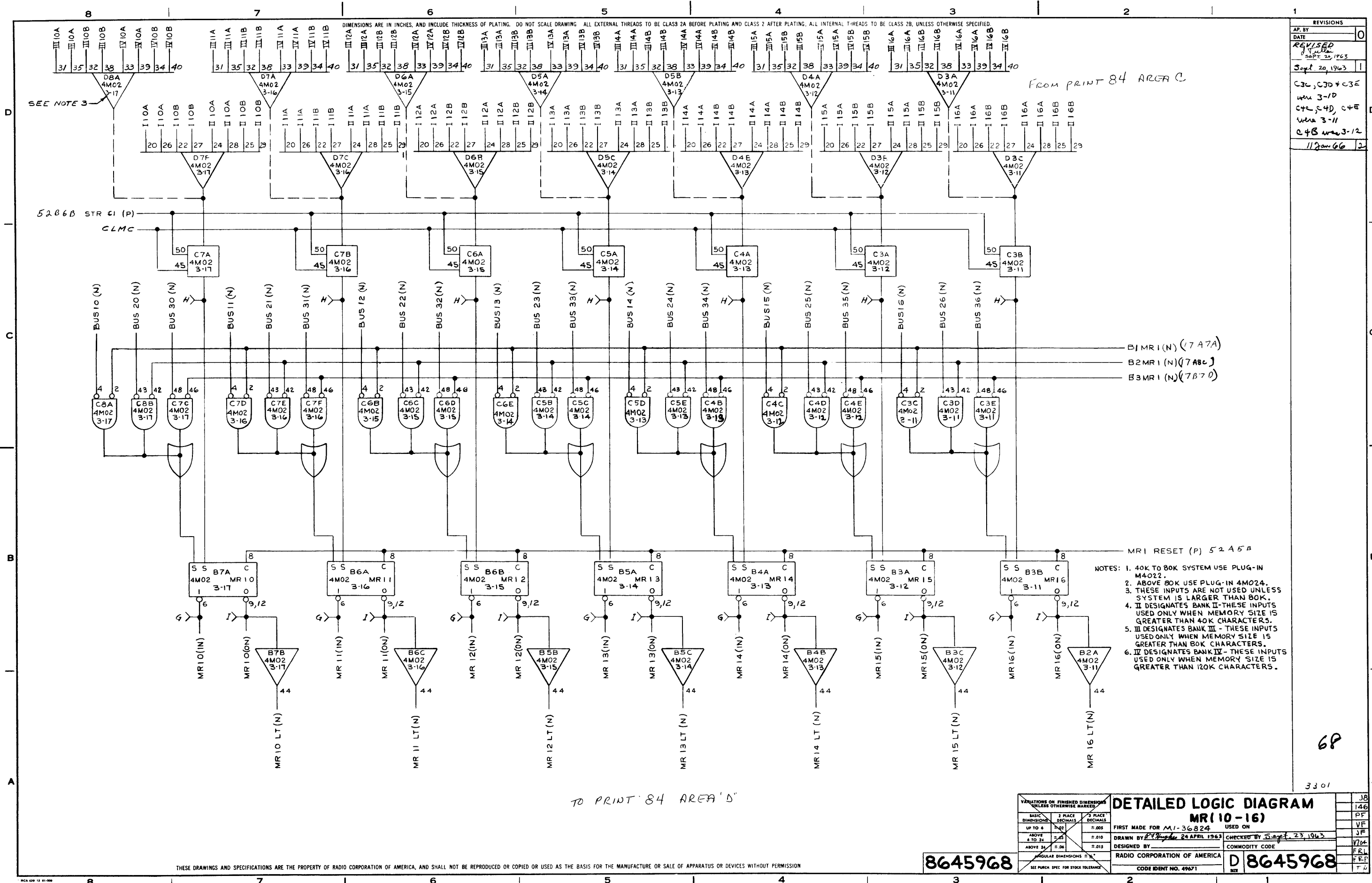
- MRO RESET (P) 52A5A
- NOTES: 1. 40K TO 80K SYSTEM USE PLUG-IN 4M02.
 2. ABOVE 80K USE PLUG-IN 4M024.
 3. THESE INPUTS ARE NOT USED UNLESS SYSTEM IS LARGER THAN 80K.
 4. II DESIGNATES BANK II - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 40K CHARACTERS.
 5. III DESIGNATES BANK III - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 80K CHARACTERS.
 6. IV DESIGNATES BANK IV - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 120K CHARACTERS.

67

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			DETAILED LOGIC DIAGRAM	
BASIC DIMENSIONS	3 PLACE DECIMALS	3 PLACE DECIMALS	MR100-06	
UP TO 4	±.02	±.003	FIRST MADE FOR M1-36824	USED ON
ABOVE 4 TO 24	±.03	±.010	DRAWN BY R. J. Hughes	CHECKED BY Sept. 20, 1963
ABOVE 24	±.04	±.015	DESIGNED BY	COMMODITY CODE
ANGULAR DIMENSIONS = 1/16"			RADIO CORPORATION OF AMERICA	
SEE PURCH SPEC FOR STOCK TOLERANCE			D 8645967	

8645967

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REVISIONS	
AP. BY	0
DATE	
REVISED	
Sept. 29, 1963	1
C3C, C3D + C3E	
WIR 3-10	
C4C, C4D, C4E	
WIR 3-11	
C4B WIR 3-12	
11 Jan 66	2

FROM PRINT 84 AREA C

- NOTES:
1. 40K to 80K SYSTEM USE PLUG-IN M4022.
 2. ABOVE BOX USE PLUG-IN 4M024.
 3. THESE INPUTS ARE NOT USED UNLESS SYSTEM IS LARGER THAN 80K.
 4. II DESIGNATES BANK II - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 40K CHARACTERS.
 5. III DESIGNATES BANK III - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 80K CHARACTERS.
 6. IV DESIGNATES BANK IV - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 120K CHARACTERS.

TO PRINT 84 AREA 'D'

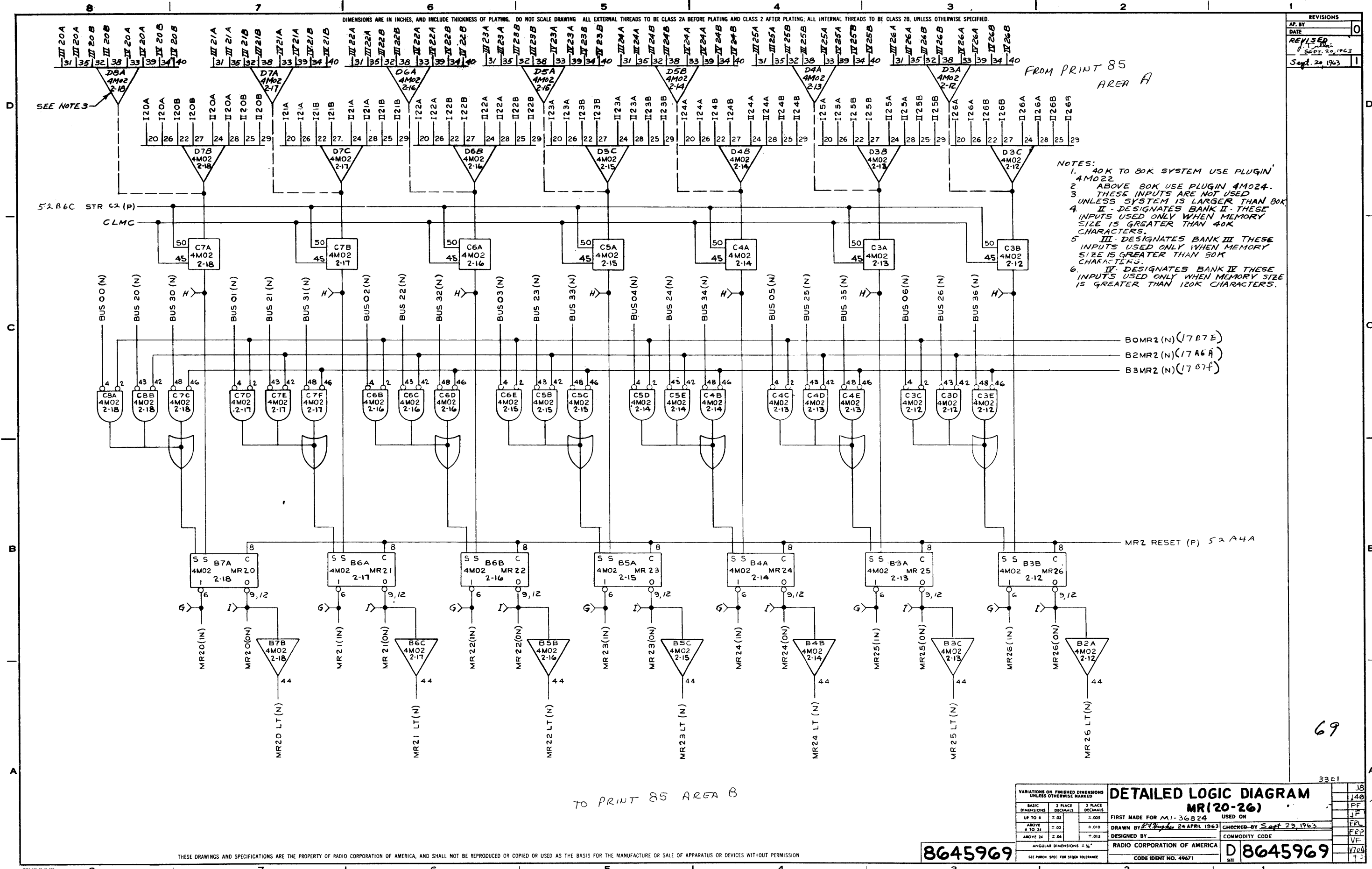
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			
BASIC DIMENSIONS	3 PLACE DECIMALS	3 PLACE DECIMALS	
UP TO 4"	±.005	±.005	
ABOVE 4" & TO 24"	±.010	±.010	
ABOVE 24"	±.015	±.015	
ANGULAR DIMENSIONS ±.1°			
SEE PURCH SPEC FOR STOCK TOLERANCE			

DETAILED LOGIC DIAGRAM	
MR(10-16)	
FIRST MADE FOR M1-36824	USED ON
DRAWN BY <i>[Signature]</i> 24 APRIL 1963	CHECKED BY <i>[Signature]</i> 23, 1963
DESIGNED BY	COMMODITY CODE
RADIO CORPORATION OF AMERICA	
CODE IDENT NO. 49671	

8645968

6P

3301



DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

FROM PRINT 85
AREA A

- NOTES:
1. 40K TO 80K SYSTEM USE PLUG-IN 4M022
 2. ABOVE 80K USE PLUG-IN 4M024.
 3. THESE INPUTS ARE NOT USED UNLESS SYSTEM IS LARGER THAN 80K.
 4. II - DESIGNATES BANK II - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 40K CHARACTERS.
 5. III - DESIGNATES BANK III - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 80K CHARACTERS.
 6. IV - DESIGNATES BANK IV - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 120K CHARACTERS.

REVISIONS	
AP. BY	0
DATE	
REVISED	
BY	
DATE	Sept. 20, 1963
REVISED	1
BY	
DATE	

B0MR2(N)(17B7E)
B2MR2(N)(17A6A)
B3MR2(N)(17B7f)

MR2 RESET (P) 52A4A

TO PRINT 85 AREA B

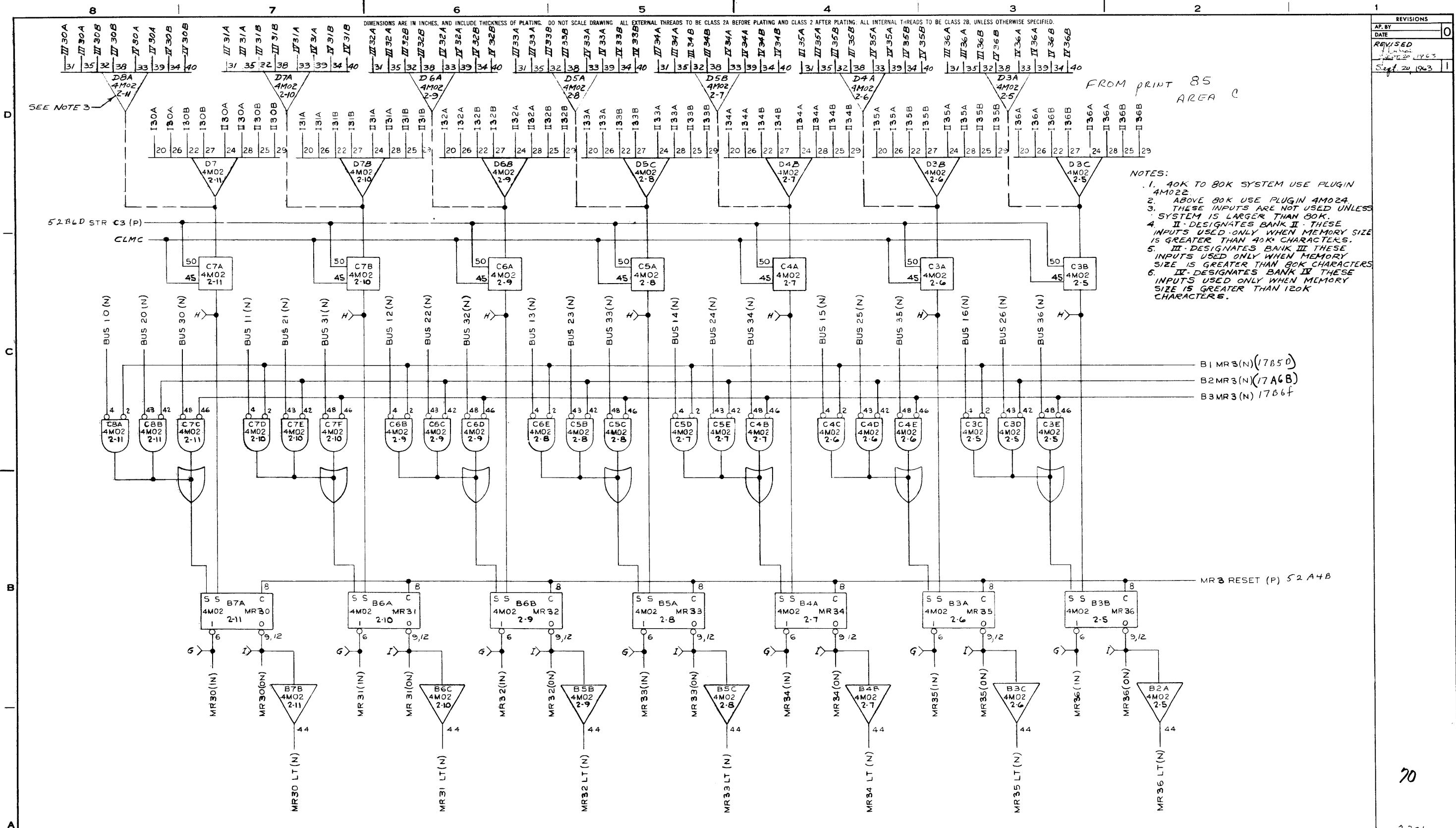
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		3 PLACE DECIMALS		COMMODITY CODE	
BASIC DIMENSIONS	± .01	UP TO 4	± .005	8645969	D
ABOVE 4 TO 24	± .01	ABOVE 24	± .015	8645969	T-1
ANGULAR DIMENSIONS	± 1/16"	SEE PURCH. SPEC. FOR STOCK TOLERANCE			

DETAILED LOGIC DIAGRAM
MR(20-26)

FIRST MADE FOR M1-36824 USED ON
DRAWN BY R. J. Hughes 24 APRIL 1963 CHECKED BY Sept 23, 1963

DESIGNED BY RADIO CORPORATION OF AMERICA
CODE IDENT NO. 49671

8645969



DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

SEE NOTE 3

FROM PRINT 85 AREA C

- NOTES:
1. 40K TO 80K SYSTEM USE PLUG IN 4M022.
 2. ABOVE 80K USE PLUG IN 4M024.
 3. THESE INPUTS ARE NOT USED UNLESS SYSTEM IS LARGER THAN 80K.
 4. II - DESIGNATES BANK II. THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 40K CHARACTERS.
 5. III - DESIGNATES BANK III. THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 80K CHARACTERS.
 6. IV - DESIGNATES BANK IV. THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 120K CHARACTERS.

B1 MR3(N) (17B5D)
 B2 MR3(N) (17A6B)
 B3 MR3(N) 17B6f

MR3 RESET (P) 52A4B

TO PRINT 85 AREA D

REVISIONS	
AP. BY	0
DATE	
REVISED	
BY	
DATE	
Sept. 20 1963	1

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			DETAILED LOGIC DIAGRAM	
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	MR(30-36)	
UP TO 6	±.02	±.005	FIRST MADE FOR M1-36824	USED ON
6 TO 24	±.03	±.010	DRAWN BY <i>R. P. Hughes</i> 24 APRIL 1963	CHECKED BY <i>Sept. 20, 1963</i>
ABOVE 24	±.06	±.015	DESIGNED BY	COMMODITY CODE
ANGULAR DIMENSIONS = 1/16"			RADIO CORPORATION OF AMERICA	
SEE PUNCH SPEC. FOR STOCK TOLERANCE			CODE IDENT NO. 49671	

8645970

D 8645970

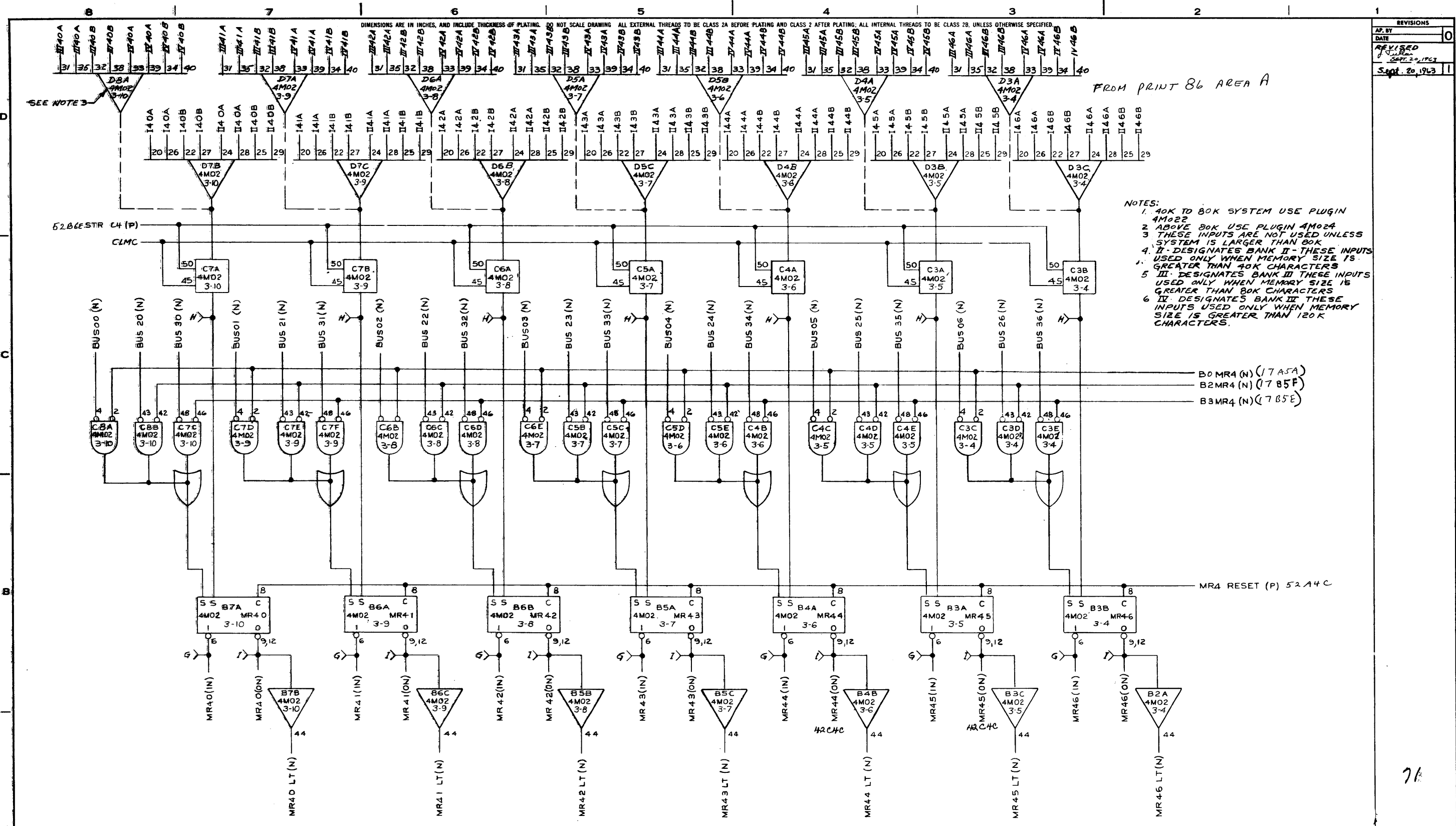
70

3301

REVISIONS	
AP. BY	0
DATE	
REVISED	
BY	
DATE	Sept. 20, 1963
REVISION	1

FROM PRINT 86 AREA A

- NOTES:
1. 40K TO 80K SYSTEM USE PLUG IN 4M022
 2. ABOVE 80K USE PLUG IN 4M024
 3. THESE INPUTS ARE NOT USED UNLESS SYSTEM IS LARGER THAN 80K
 4. II - DESIGNATES BANK II - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 40K CHARACTERS
 5. III - DESIGNATES BANK III THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 80K CHARACTERS
 6. IX - DESIGNATES BANK IX THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 120K CHARACTERS.



TO PRINT 86 AREA B

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8645971

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			DETAILED LOGIC DIAGRAM	
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	MR(40-46)	
UP TO 4	±.02	±.005	FIRST MADE FOR M1-36824 USED ON	
ABOVE 4	±.03	±.010	DRAWN BY <i>P. J. Hughes</i> 24 APRIL 1963 CHECKED BY <i>Sept. 23, 1963</i>	
ABOVE 24	±.04	±.015	DESIGNED BY	COMMODITY CODE
ANGULAR DIMENSIONS ± 1/16"			RADIO CORPORATION OF AMERICA	
SEE PURCH SPEC FOR STOCK TOLERANCE			CODE IDENT NO. 49671	D 8645971

76

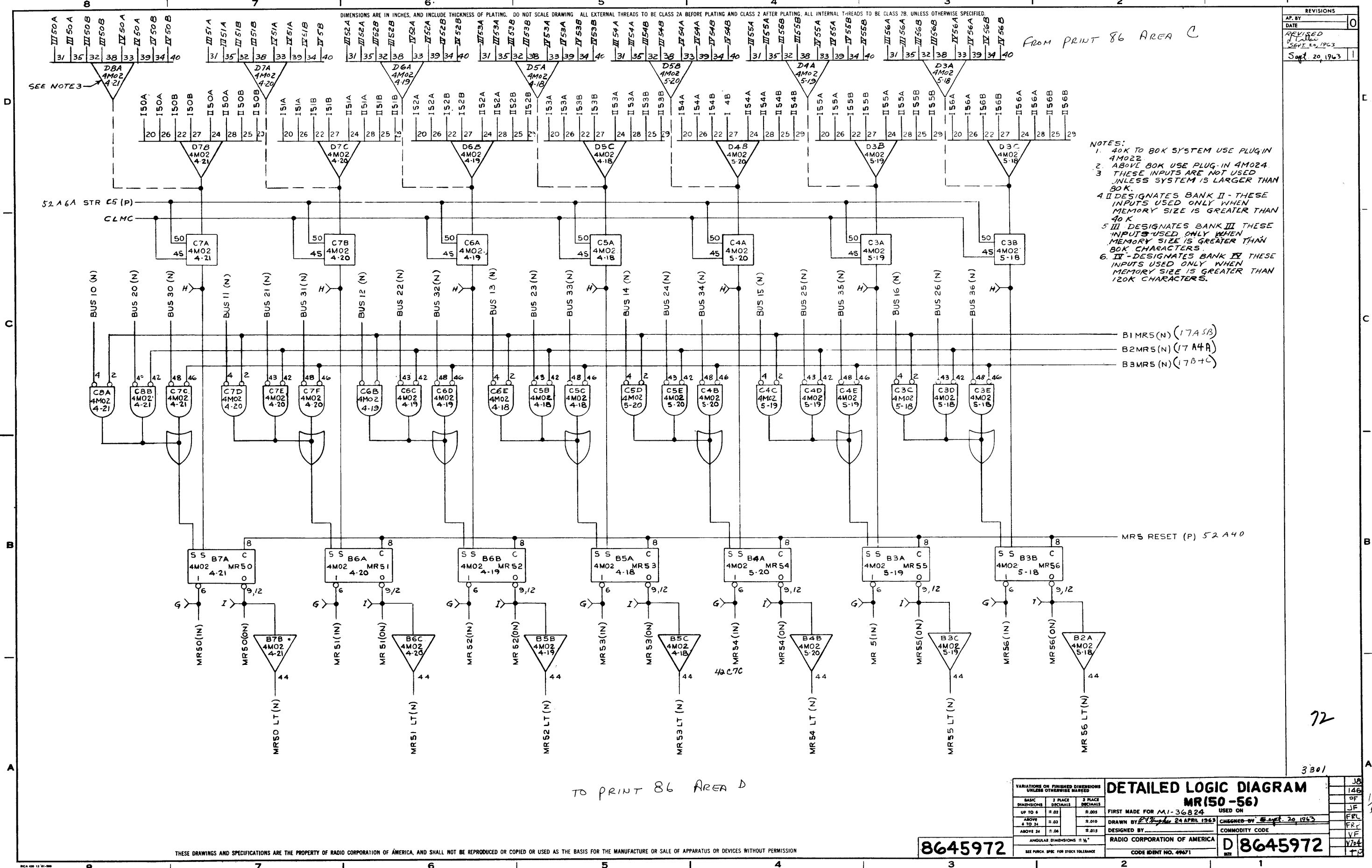
JB
146
PF
JF
ERL
FRP
VF
V704
TF

REVISIONS	
AP. BY	0
DATE	
REVISED	
BY	
DATE	Sept 20, 1963

FROM PRINT 86 AREA C

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

- NOTES:
- 40K TO 80K SYSTEM USE PLUG-IN 4M022
 - ABOVE 80K USE PLUG-IN 4M024
 - THESE INPUTS ARE NOT USED UNLESS SYSTEM IS LARGER THAN 80K.
 - II DESIGNATES BANK II - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 40K
 - III DESIGNATES BANK III THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 80K CHARACTERS
 - IV - DESIGNATES BANK IV THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 120K CHARACTERS.



B1MRS(N) (17A5B)
 B2MRS(N) (17A4A)
 B3MRS(N) (17B+C)

TO PRINT 86 AREA D

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE NOTED			DETAILED LOGIC DIAGRAM	
BASIC DIMENSIONS	3 PLACE DECIMALS	3 PLACE DECIMALS	MR50-56	
UP TO 4	±.03	±.015	FIRST MADE FOR MJ-36824	USED ON
ABOVE 4 TO 24	±.03	±.015	DRAWN BY <i>[Signature]</i> 24 APRIL 1963	CHECKED BY <i>[Signature]</i> 20 1963
ABOVE 24	±.04	±.015	DESIGNED BY	COMMODITY CODE
ANGULAR DIMENSIONS ± 1/2°			RADIO CORPORATION OF AMERICA	
SEE PURCH. SPEC. FOR STOCK TOLERANCE			CODE IDENT NO. 49471	

8645972

D 8645972

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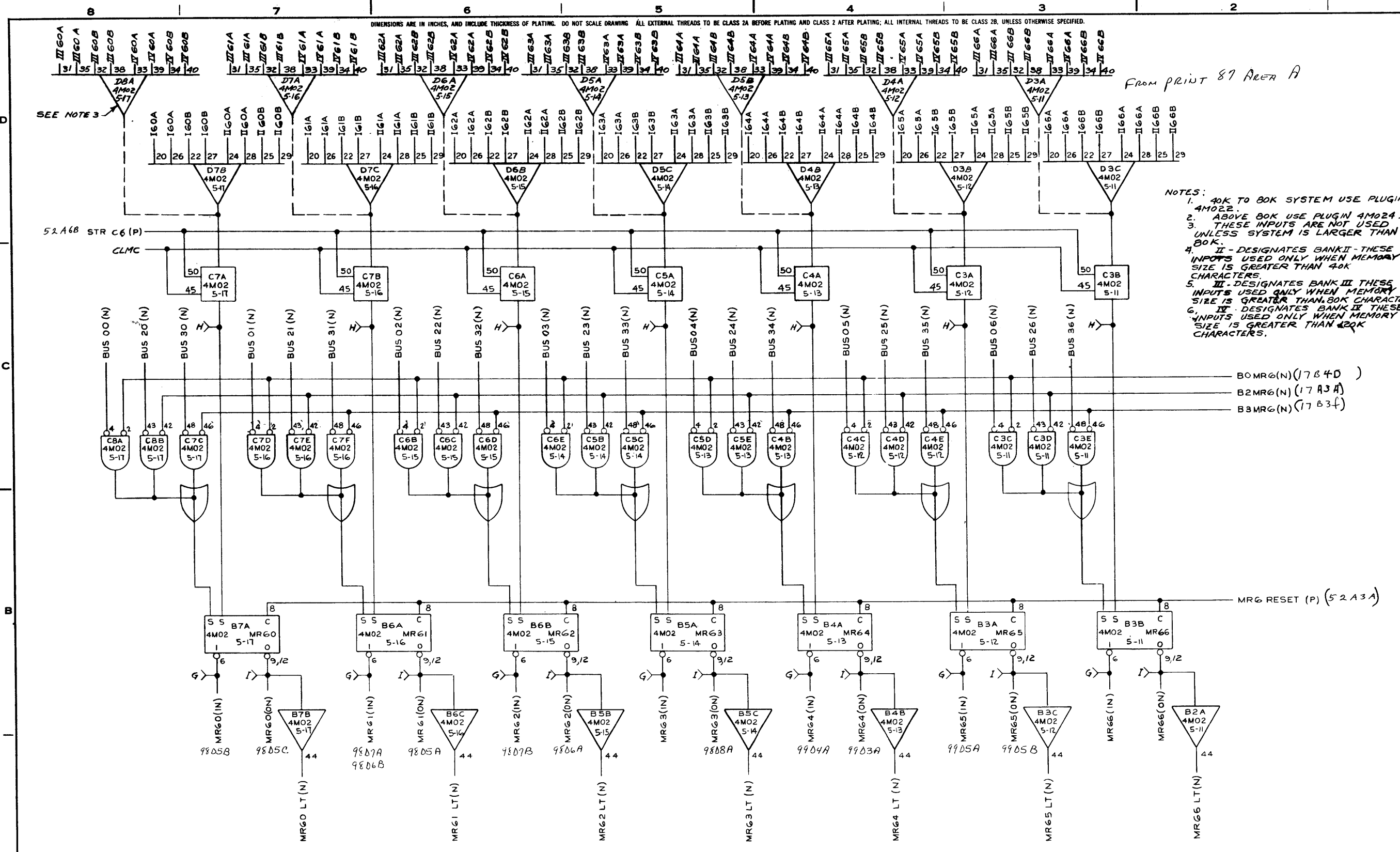
72

3301

REVISIONS	
AP. BY	0
DATE	
REVISED	
SEP 20, 1963	
5481.20.1963	1

From print 87 AREA A

- NOTES:
1. 40K TO 80K SYSTEM USE PLUG-IN 4M02.
 2. ABOVE 80K USE PLUG-IN 4M02A.
 3. THESE INPUTS ARE NOT USED UNLESS SYSTEM IS LARGER THAN 80K.
 4. II - DESIGNATES BANK II - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 40K CHARACTERS.
 5. III - DESIGNATES BANK III - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 80K CHARACTERS.
 6. IV - DESIGNATES BANK IV - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 120K CHARACTERS.

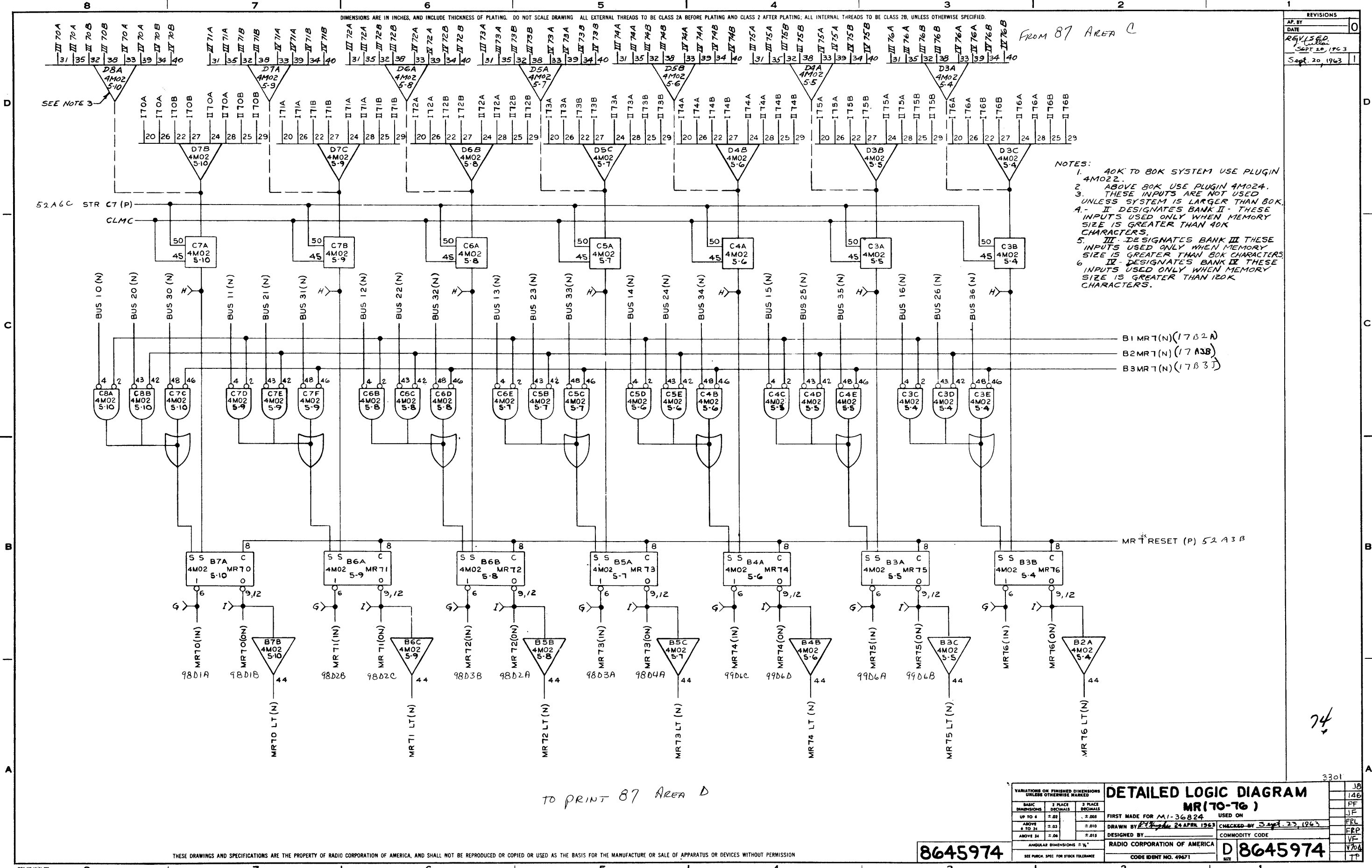


B0MRG(N) (17B4D)
 B2MRG(N) (17A3A)
 B3MRG(N) (17B3f)

MRG RESET (P) (52A3A)

TO PRINT 87 AREA B

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			DETAILED LOGIC DIAGRAM	
BASIC DIMENSIONS	3 PLACE DECIMALS	3 PLACE DECIMALS	MR(60-66) FIRST MADE FOR M1-36824 USED ON DRAWN BY <i>P. Hughes</i> 24 APRIL 1963 CHECKED BY <i>Sept 20, 1963</i> DESIGNED BY _____ COMMODITY CODE _____ RADIO CORPORATION OF AMERICA ANGULAR DIMENSIONS ± 1/2° SEE PART SPEC FOR STOCK TOLERANCE CODE IDENT NO. 49671	
UP TO 4	±.01	±.005		
ABOVE 4 TO 24	±.03	±.010		
ABOVE 24	±.04	±.015		
8645973			8645973 SIZE	



DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

FROM 87 AREA C

REVISIONS	
AP. BY	0
DATE	
REVISED	
BY	
DATE	Sept. 20, 1963

- NOTES:
1. 40K TO 80K SYSTEM USE PLUGIN 4M02Z.
 2. ABOVE 80K USE PLUGIN 4M02A.
 3. THESE INPUTS ARE NOT USED UNLESS SYSTEM IS LARGER THAN 80K.
 4. II DESIGNATES BANK II - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 40K CHARACTERS.
 5. III DESIGNATES BANK III - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 80K CHARACTERS.
 6. IV DESIGNATES BANK IV - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 120K CHARACTERS.

TO PRINT 87 AREA D

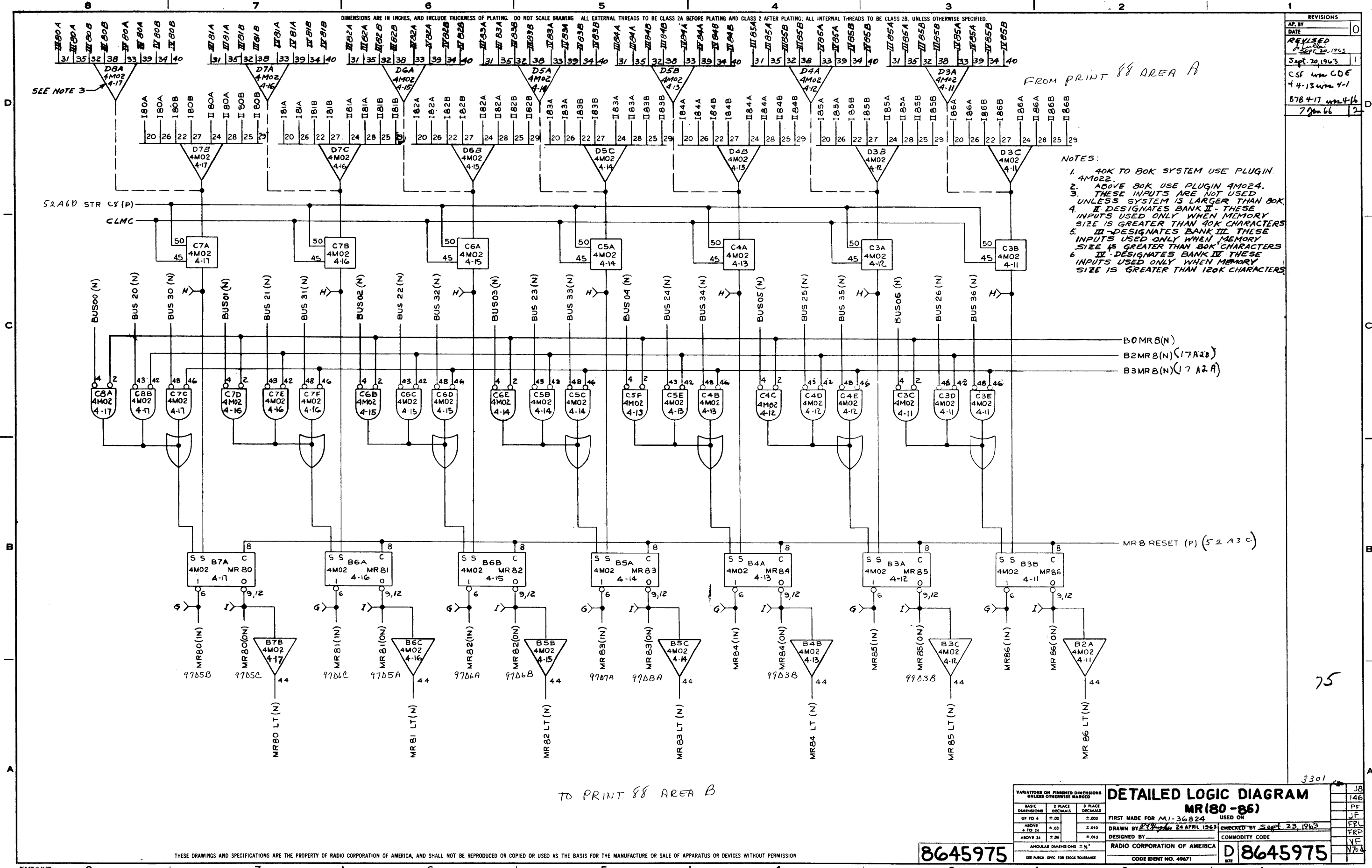
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED				DETAILED LOGIC DIAGRAM	
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS		MR(70-76)	
UP TO 4	±.02	±.003	FIRST MADE FOR M1-36824	USED ON	
ABOVE 4 TO 24	±.03	±.010	DRAWN BY <i>[Signature]</i> 24 APRIL 1963	CHECKED BY <i>[Signature]</i> 23, 1963	
ABOVE 24	±.04	±.015	DESIGNED BY	COMMODITY CODE	
ANGULAR DIMENSIONS ± 1/2°			RADIO CORPORATION OF AMERICA		D 8645974
SEE PURCH. SPEC. FOR STOCK TOLERANCE			CODE IDENT NO. 49671		

8645974

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74

J8
146
PF
JF
FPL
FRP
VF
V704
TP



FROM PRINT 88 AREA A

- NOTES:
1. 40K TO 80K SYSTEM USE PLUG IN 4M022.
 2. ABOVE 80K USE PLUG IN 4M024.
 3. THESE INPUTS ARE NOT USED.
 4. I DESIGNATES BANK I - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 40K CHARACTERS.
 5. II DESIGNATES BANK II - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 80K CHARACTERS.
 6. III DESIGNATES BANK III - THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 120K CHARACTERS.

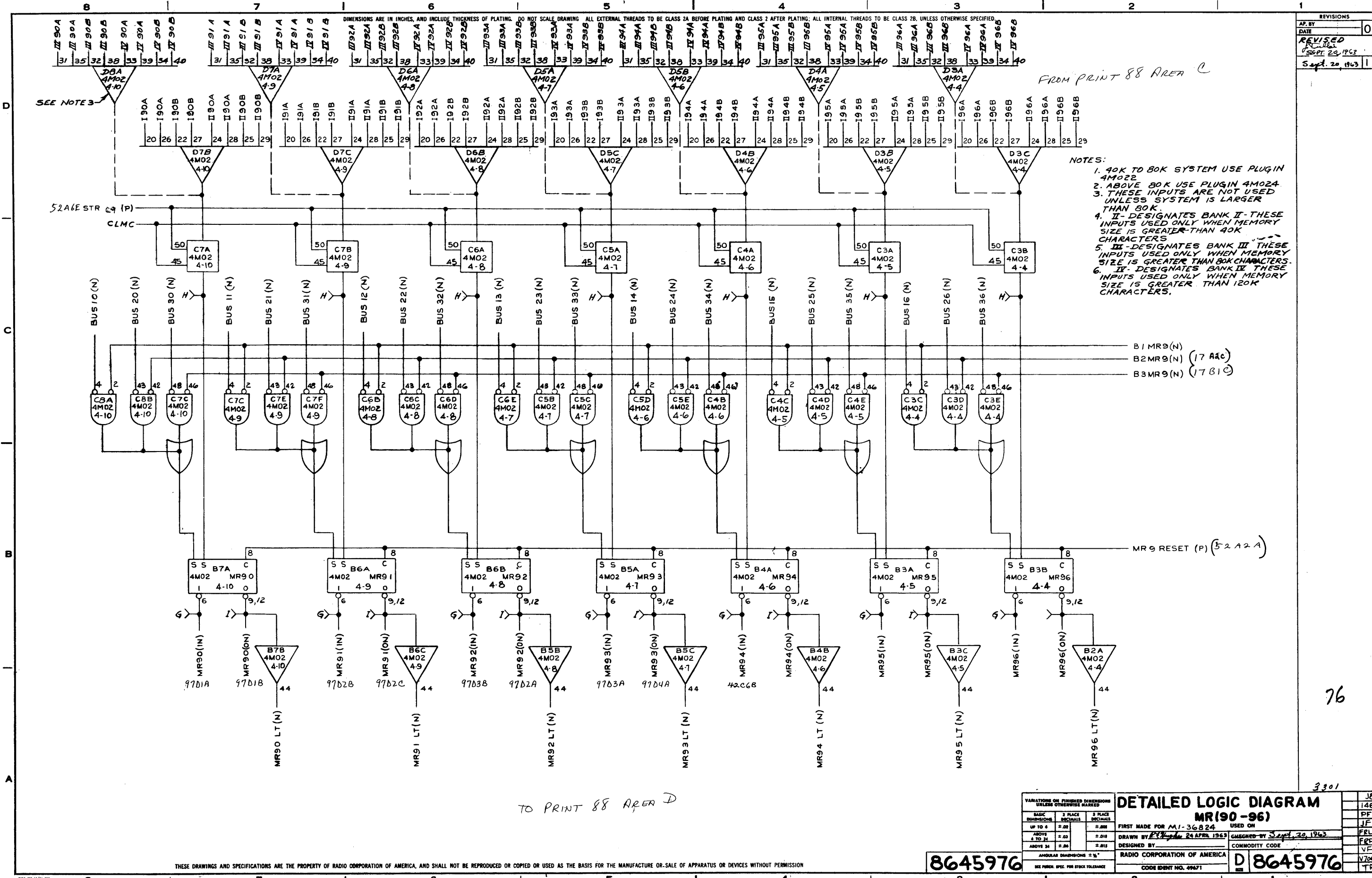
REVISIONS	
AP. BY	0
DATE	
REVISED	
Sept 20, 1963	1
CSF Wm CDE	
4-13 Wm Y-1	
87B 4-17 Wm Y-1b	
7 Jan 66	2

TO PRINT 88 AREA B

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			DETAILED LOGIC DIAGRAM MR(80-86) FIRST MADE FOR M1-36824 USED ON DRAWN BY <i>PPH</i> 24 APRIL 1963 CHECKED BY <i>Sept 23, 1963</i> DESIGNED BY _____ COMMODITY CODE _____
BASIC DIMENSIONS	3 PLACE DECIMALS	3 PLACE DECIMALS	
UP TO 4	±.01	±.005	
ABOVE 4 TO 24	±.02	±.010	
ABOVE 24	±.04	±.015	
ANGULAR DIMENSIONS ± 1/2°			
SEE PURCH. SPEC FOR STOCK TOLERANCE			
RADIO CORPORATION OF AMERICA			CODE IDENT NO. 49671 8645975

75

3301



REVISIONS

AP. BY	0
DATE	REVISION
	REVISED
	0 SEPT. 20, 1963
	Sept. 20, 1963

FROM PRINT 88 AREA C

- NOTES:
1. 40K TO 80K SYSTEM USE PLUG IN 4M022
 2. ABOVE 80K USE PLUG IN 4M024
 3. THESE INPUTS ARE NOT USED UNLESS SYSTEM IS LARGER THAN 80K.
 4. II- DESIGNATES BANK II- THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 40K CHARACTERS
 5. III- DESIGNATES BANK III THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 80K CHARACTERS.
 6. IV- DESIGNATES BANK IV THESE INPUTS USED ONLY WHEN MEMORY SIZE IS GREATER THAN 120K CHARACTERS.

SEE NOTE 3

B1 MR9(N)
B2 MR9(N) (17 A4c)
B3 MR9(N) (17 B1c)

MR9 RESET (P) (52 A2A)

TO PRINT 88 AREA D

76

3301

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED				DETAILED LOGIC DIAGRAM		J8
				MR(90-96)		146
				FIRST MADE FOR M1-36824		PF
				USED ON		JF
				DRAWN BY <i>R. Hughes</i> 24 APRIL 1963		FRL
				CHECKED BY <i>Sept. 20, 1963</i>		VF
				DESIGNED BY		VF
				RADIO CORPORATION OF AMERICA		V704
				COMMODITY CODE		TP
				CODE IDENT NO. 49471		
				D 8645976		

8645976

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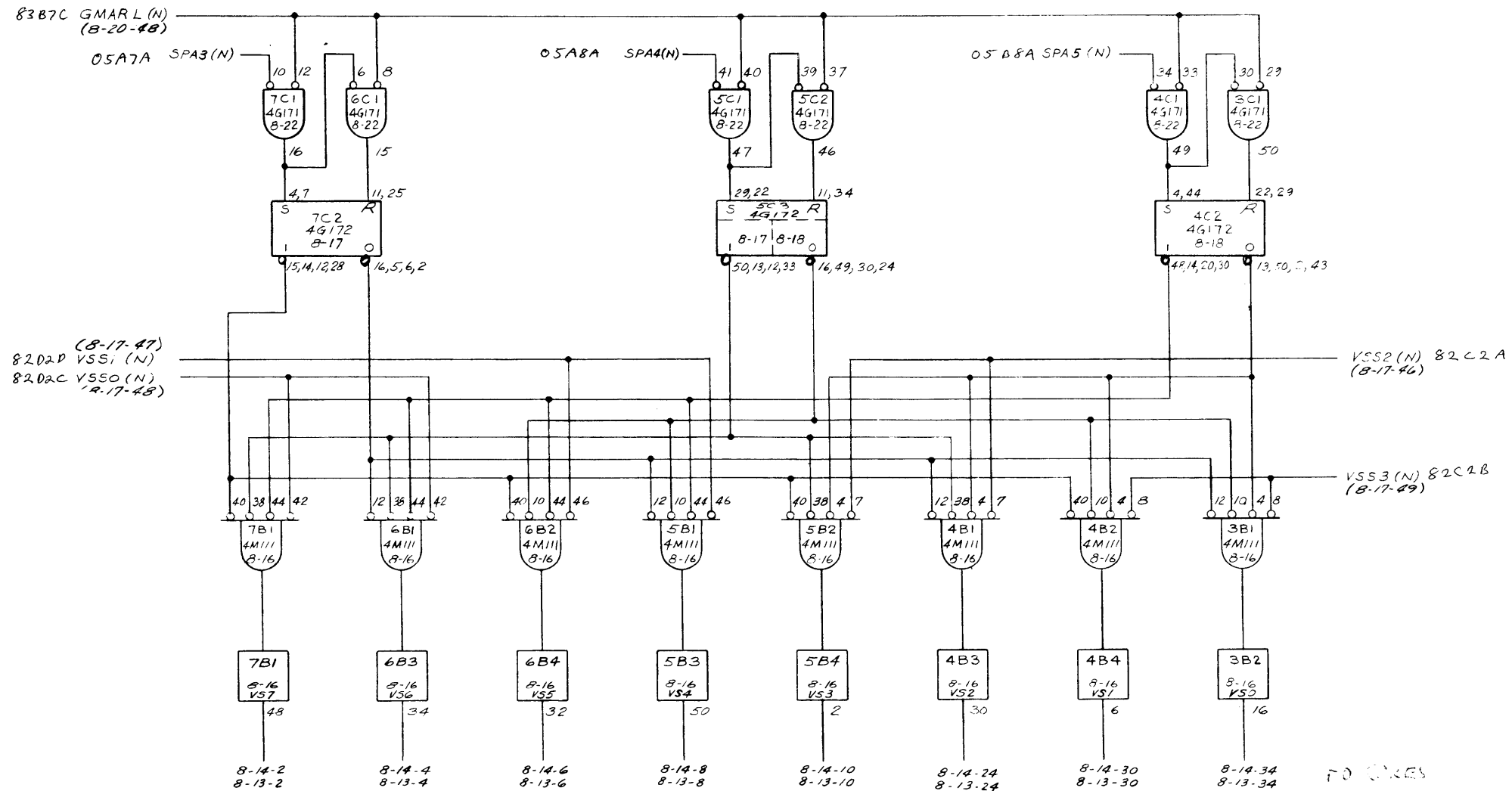
3

2

1

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	DATE
REVISED	July 22, 1963
APPROVED	July 22, 1963
APPROVED	Sept. 16, 1963



77

STANDARDIZED CHANGES OR ADDITIONS REQUIRE APPROVAL OF CIRCUIT STANDARDS COM. COMMERCIAL SYSTEMS ENG.

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			DETAILED LOGIC DIAGRAM SPM-MAR & VSW'S FIRST MADE FOR 3521 USED ON DRAWN BY <i>L. Cassidy</i> Jan 8, 1963 CHECKED BY <i>July 22, 1963</i> DESIGNED BY RADIO CORPORATION OF AMERICA CAMDEN, N.J. CODE IDENT NO. 49671	TR	JB
BASIC DIMENSIONS	2 PLACE DECIMAL	3 PLACE DECIMAL		✓	✓
UP TO 4	±.01	±.005		✓	✓
ABOVE 4 TO 24	±.01	±.015		✓	✓
ABOVE 24	±.06	±.015		✓	✓
ANGULAR DIMENSIONS ±.1°			✓	✓	
SEE PURCH SPEC FOR STOCK TOLERANCE			✓	✓	

8645978

D 8645978

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8

7

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4

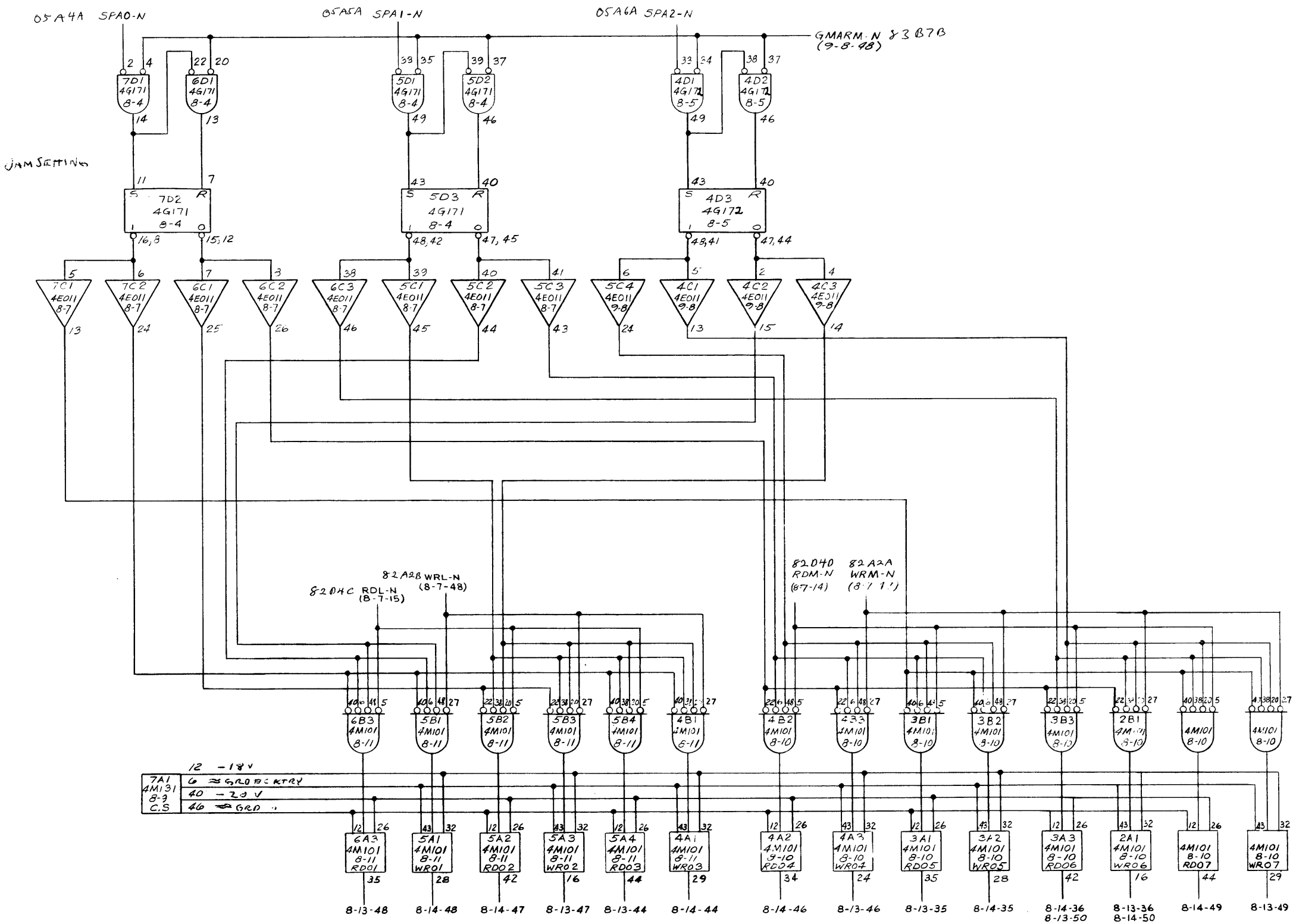
3

2

1

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	DATE
	0
REVISED	12-15-43
APPROVED	July 22, 1943
APPROVED	Sept 16, 1943
4D1, 4D2 and 4D3	new 4-6-47
8 Aug 45	13



12 - 18V
 6 - GND BATTERY
 40 - 23V
 C.S. - GND

STANDARDIZED
 CHANGES OR ADDITIONS
 REQUIRE APPROVAL OF
 CIRCUIT STANDARDS COM.
 COMMERCIAL SYSTEMS ENG.

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			DETAILED LOGIC DIAGRAM SPM-MAR 6 DRIVERS FIRST MADE FOR 3301 DRAWN BY <i>W. DeLoach</i> DESIGNED BY <i>W. DeLoach</i> RADIO CORPORATION OF AMERICA CAMDEN, N. J. CODE IDENT NO. 49671	2/5	08
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS		✓	✓
UP TO 6	±.01	±.005		✓	✓
ABOVE 6 TO 24	±.02	±.010		✓	✓
ABOVE 24	±.04	±.015	✓	✓	
ANGULAR DIMENSIONS	±.01"		✓	✓	
SEE PURCH. SPEC. FOR STOCK TOLERANCE			✓	✓	

8645979

D 8645979

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8

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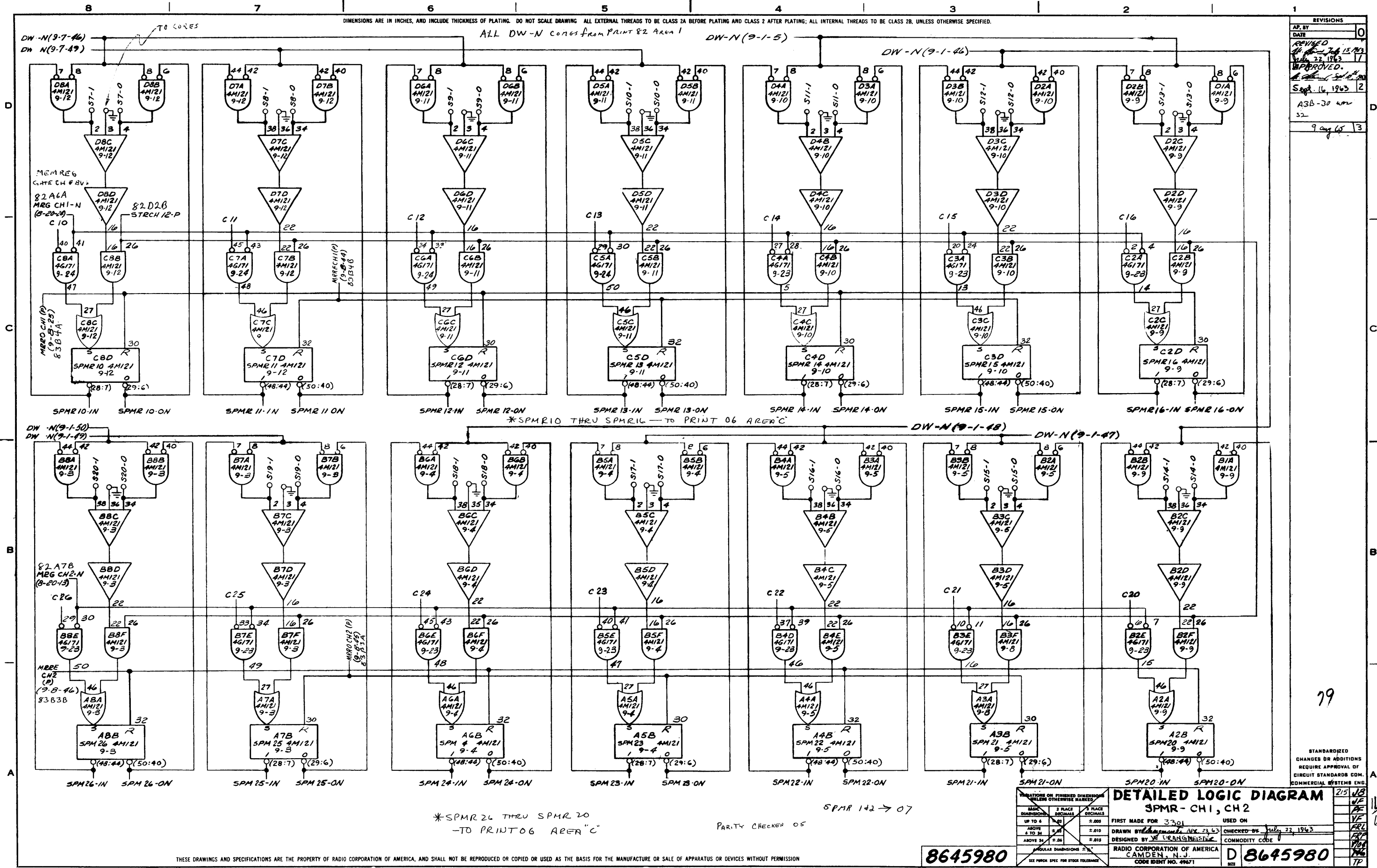
1

78

READ I = 390 mA WRITE I = 240 mA DIGIT WRITE = 63 mA

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

ALL DW-N CORES FROM PRINT 82 AREA 1



REVISIONS	
AP. BY	DATE
0	
1	7-15-63
2	7-22-63
3	8-16-63
4	9-1-63

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			
MARK DIMENSIONS	3 PLACE DECIMALS	2 PLACE DECIMALS	1 PLACE DECIMALS
UP TO 4"	±.005	±.010	±.015
ABOVE 4 TO 16"	±.005	±.010	±.015
ABOVE 16 TO 36"	±.005	±.010	±.015
ABOVE 36 TO 48"	±.005	±.010	±.015
ABOVE 48 TO 72"	±.005	±.010	±.015
ABOVE 72 TO 96"	±.005	±.010	±.015
ABOVE 96 TO 120"	±.005	±.010	±.015
ABOVE 120 TO 144"	±.005	±.010	±.015
ABOVE 144 TO 168"	±.005	±.010	±.015
ABOVE 168 TO 192"	±.005	±.010	±.015
ABOVE 192 TO 216"	±.005	±.010	±.015
ABOVE 216 TO 240"	±.005	±.010	±.015
ABOVE 240 TO 264"	±.005	±.010	±.015
ABOVE 264 TO 288"	±.005	±.010	±.015
ABOVE 288 TO 312"	±.005	±.010	±.015
ABOVE 312 TO 336"	±.005	±.010	±.015
ABOVE 336 TO 360"	±.005	±.010	±.015
ABOVE 360 TO 384"	±.005	±.010	±.015
ABOVE 384 TO 408"	±.005	±.010	±.015
ABOVE 408 TO 432"	±.005	±.010	±.015
ABOVE 432 TO 456"	±.005	±.010	±.015
ABOVE 456 TO 480"	±.005	±.010	±.015
ABOVE 480 TO 504"	±.005	±.010	±.015
ABOVE 504 TO 528"	±.005	±.010	±.015
ABOVE 528 TO 552"	±.005	±.010	±.015
ABOVE 552 TO 576"	±.005	±.010	±.015
ABOVE 576 TO 600"	±.005	±.010	±.015
ABOVE 600 TO 624"	±.005	±.010	±.015
ABOVE 624 TO 648"	±.005	±.010	±.015
ABOVE 648 TO 672"	±.005	±.010	±.015
ABOVE 672 TO 696"	±.005	±.010	±.015
ABOVE 696 TO 720"	±.005	±.010	±.015
ABOVE 720 TO 744"	±.005	±.010	±.015
ABOVE 744 TO 768"	±.005	±.010	±.015
ABOVE 768 TO 792"	±.005	±.010	±.015
ABOVE 792 TO 816"	±.005	±.010	±.015
ABOVE 816 TO 840"	±.005	±.010	±.015
ABOVE 840 TO 864"	±.005	±.010	±.015
ABOVE 864 TO 888"	±.005	±.010	±.015
ABOVE 888 TO 912"	±.005	±.010	±.015
ABOVE 912 TO 936"	±.005	±.010	±.015
ABOVE 936 TO 960"	±.005	±.010	±.015
ABOVE 960 TO 984"	±.005	±.010	±.015
ABOVE 984 TO 1008"	±.005	±.010	±.015

DETAILED LOGIC DIAGRAM
SPMR-CH1, CH2

FIRST MADE FOR 3301
DRAWN BY [Signature] APR 23 63
DESIGNED BY [Signature]
RADIO CORPORATION OF AMERICA
CAMDEN, N.J.
CODE IDENT. NO. 49671

CHECKED BY [Signature] 7-22-63
COMMODITY CODE
D 8645980

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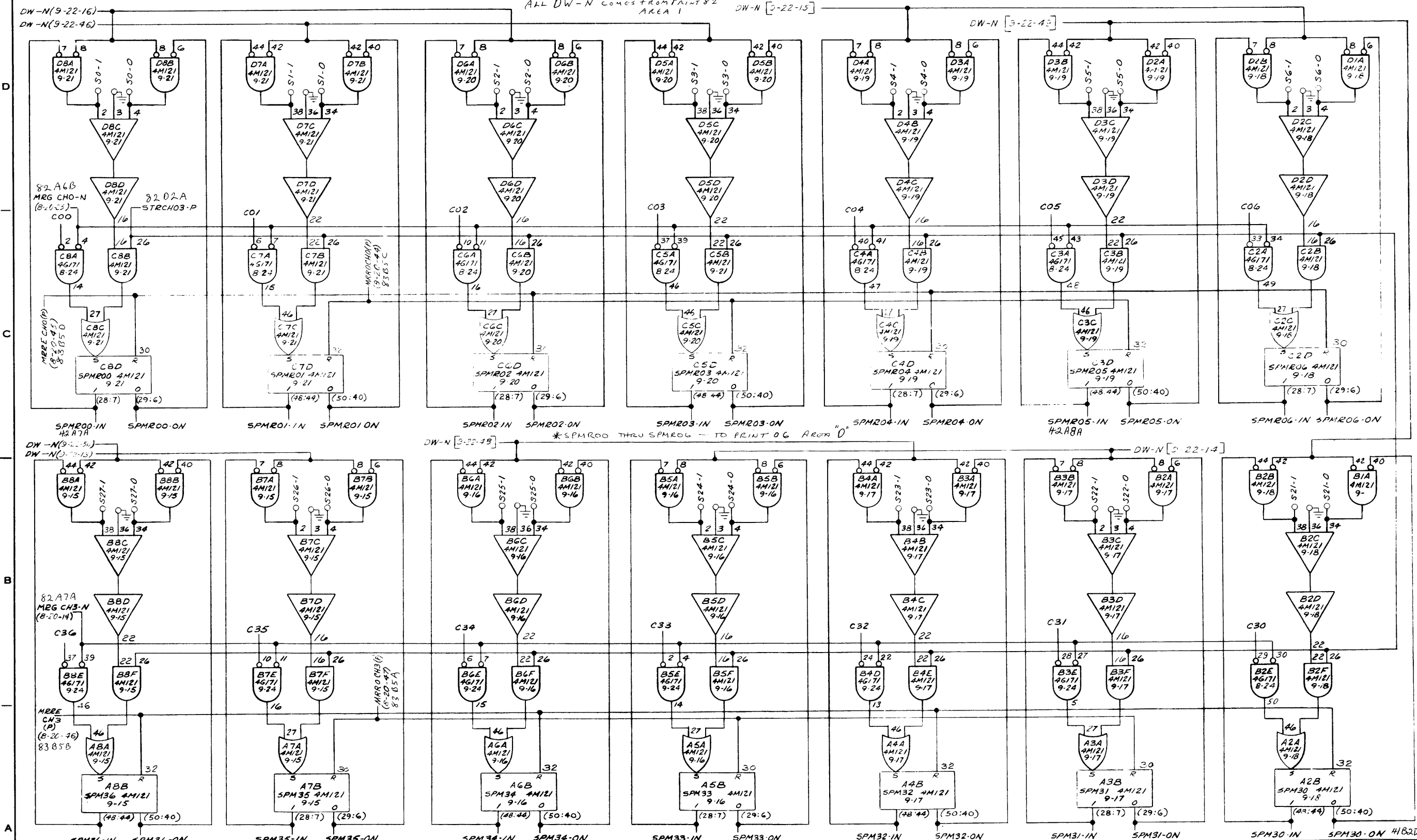
8645980

79

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

ALL DW-N COMES FROM PAINT 82 AREA 1 DW-N [5-22-15] DW-N [5-22-43]

REVISED
 DATE
 REVISED
 DATE
 APPROVED
 DATE
 Case 88 signal
 MRG CH3-N
 (8-20-14) use
 MRG CH5-N (8-20-13)
 9 Aug 65



80

STANDARDIZED
 CHANGES OR ADDITIONS
 REQUIRE APPROVAL OF
 CIRCUIT STANDARDS ENG.
 COMMERCIAL SYSTEMS ENG.

DETAILED LOGIC DIAGRAM
 SPMR - CHO, CH3

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED:		2/15	1/8
BASIC DIMENSIONS	3 PLACE DECIMALS	2 PLACE DECIMALS	1 PLACE DECIMALS
UP TO 4	±.01	±.005	±.002
4 TO 24	±.01	±.010	±.005
ABOVE 24	±.01	±.015	±.010
ANGULAR DIMENSIONS ±.1°			
SEE PURCH. SPEC. FOR STOCK TOLERANCE			

FIRST MADE FOR S301
 DRAWN BY [Signature] APR 23 63
 DESIGNED BY [Signature]
 USED ON
 CHECKED BY [Signature] JULY 23 1963
 COMMODITY CODE

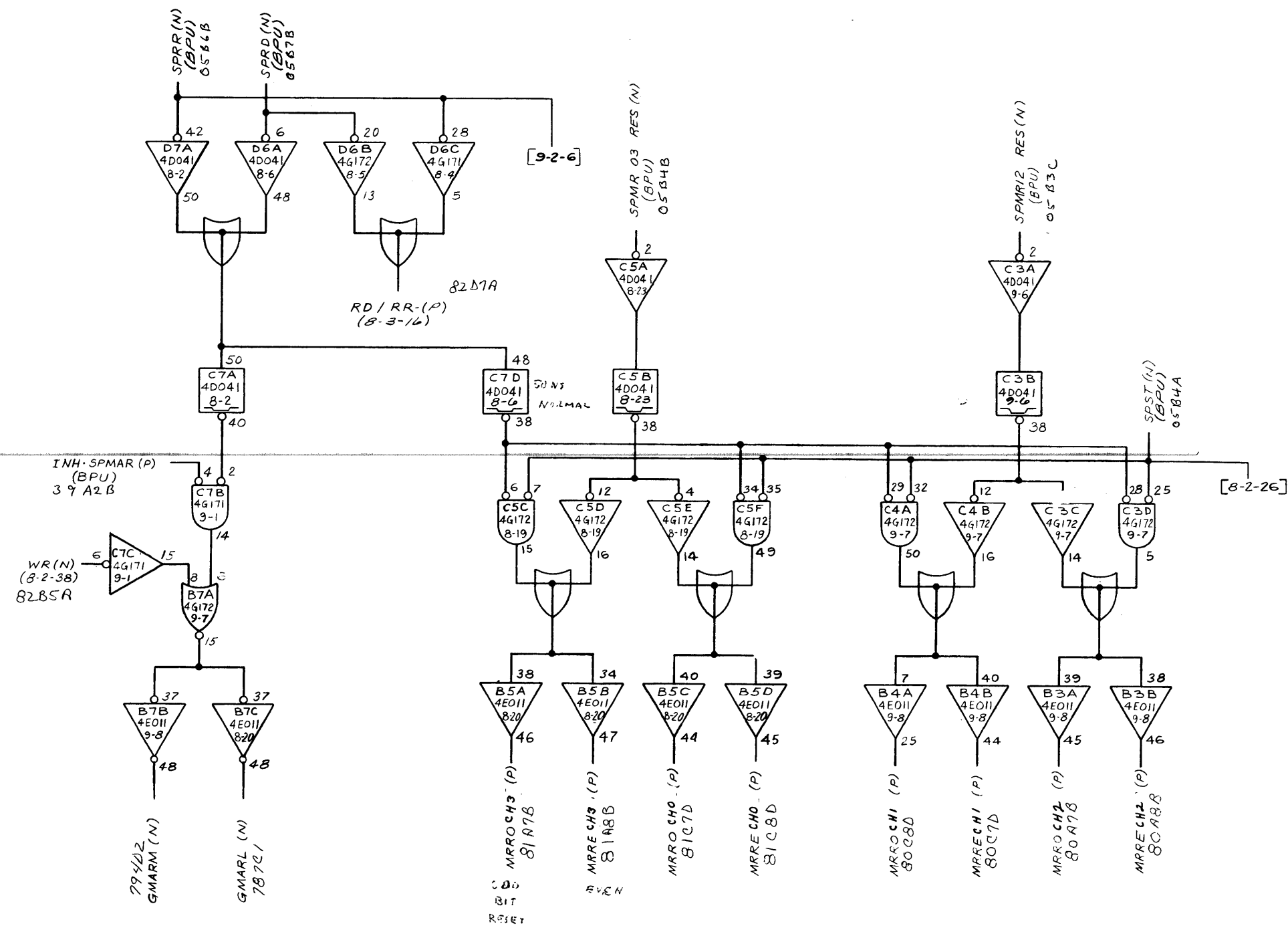
RADIO CORPORATION OF AMERICA
 CAMDEN, N.J.
 CODE IDENT NO. 49671

8645981

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DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	DATE
REVISIONED	0
APPROVED	1
APPROVED	2
APPROVED	3



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STANDARDIZED
CHANGES OR ADDITIONS
REQUIRE APPROVAL OF
CIRCUIT STANDARDS COM.
COMMERCIAL SYSTEMS ENG.

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	TRACE DECIMALS
UP TO 4"	±.02	±.005
4 TO 24"	±.01	±.010
ABOVE 24"	±.06	±.015

8645983

DETAILED LOGIC DIAGRAM
SPM COMMAND LOGIC II

FIRST MADE FOR 3321 USED ON
DRAWN BY 07/01/63 500124/88 CHECKED BY July 22, 1963
DESIGNED BY 07/01/63 500124/88

RADIO CORPORATION OF AMERICA
CAMDEN, N. J.
CODE IDENT NO. 49671

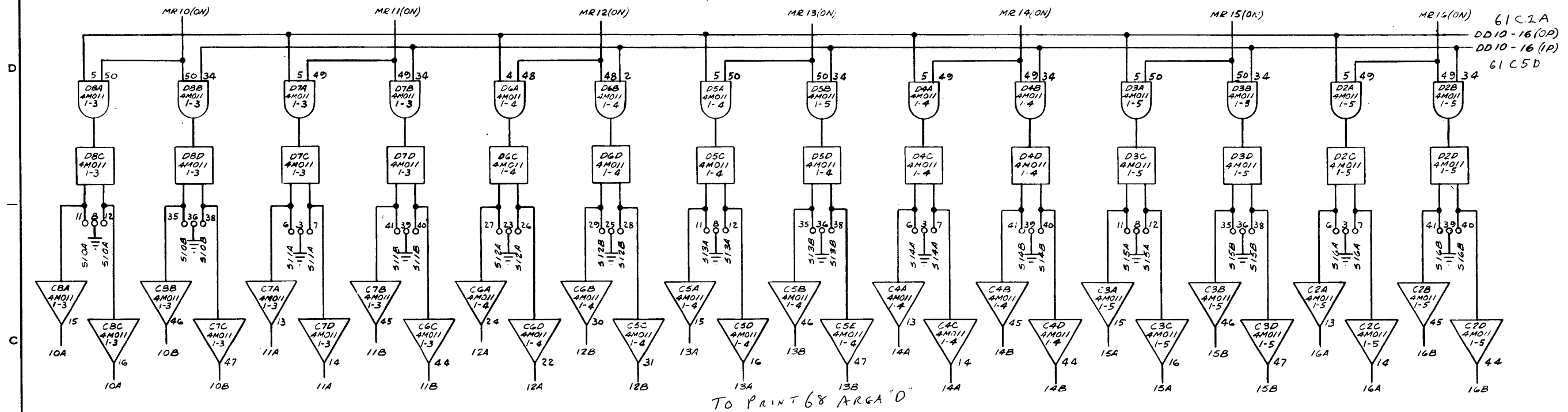
SIZE **D 8645983**

82

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

from PRINT No 68 AREA "B"

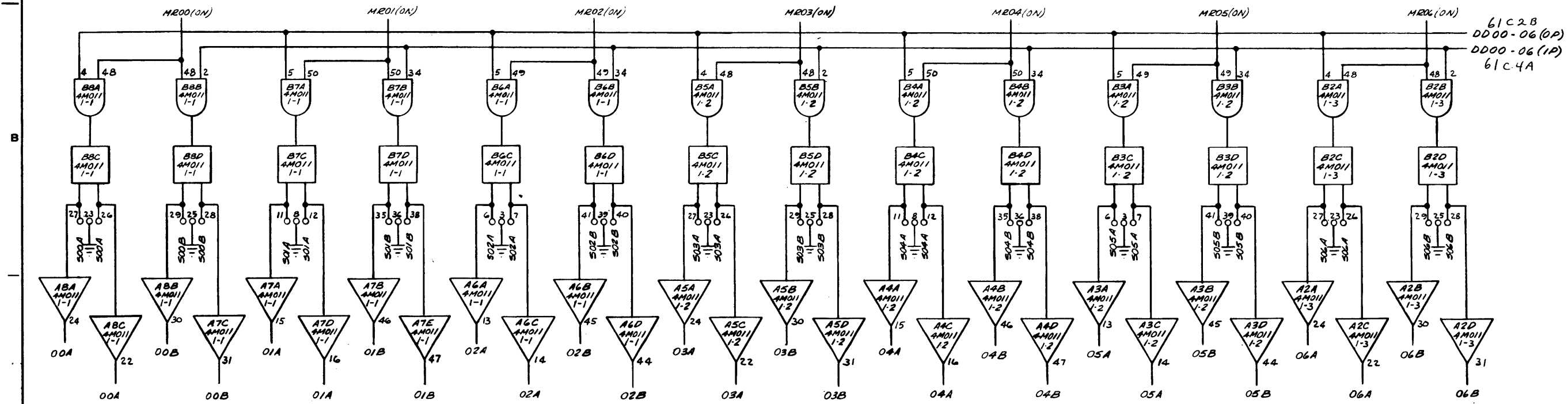
REVISIONS	
AP. BY	DR. [Signature]
DATE	Sept 11, 1963



61C2A
DD10-16(OP)
DD10-16(IP)
61C5D

TO PRINT 68 AREA "D"

from PRINT No 67 AREA "B"



61C2B
DD00-06(OP)
DD00-06(IP)
61C4A

PRINT No. 67 AREA "D"

83

3301

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8645984

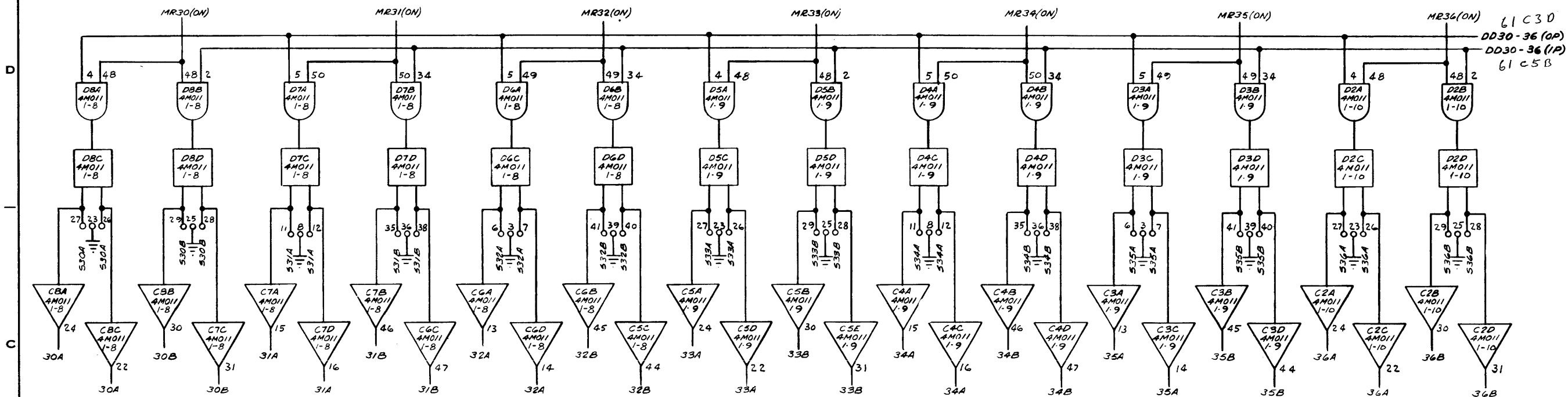
VARIATIONS ON FORMER DRAWINGS UNLESS OTHERWISE SHOWN			
BASIC DIMENSIONS	3 PLACE DECIMALS	3 PLACE DECIMALS	
UP TO 4	±.005	±.005	
ABOVE 4 TO 24	±.010	±.010	
ABOVE 24	±.015	±.015	
ANGULAR DIMENSIONS ± 15°			
SEE FIGURE SPEC. FOR OTHER TOLERANCES			
DETAILED LOGIC DIAGRAM		21518	
SENSE PREAMP AND DIGIT DRIVER CO. C1		N704	
FIRST MADE FOR M136824		USED ON 8541829	
DRAWN BY: [Signature]		CHECKED BY: [Signature]	
DESIGNED BY: [Signature]		COMMODITY CODE	
RADIO CORPORATION OF AMERICA		D 8645984	
CODE IDENT NO. 49671			

8645984

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

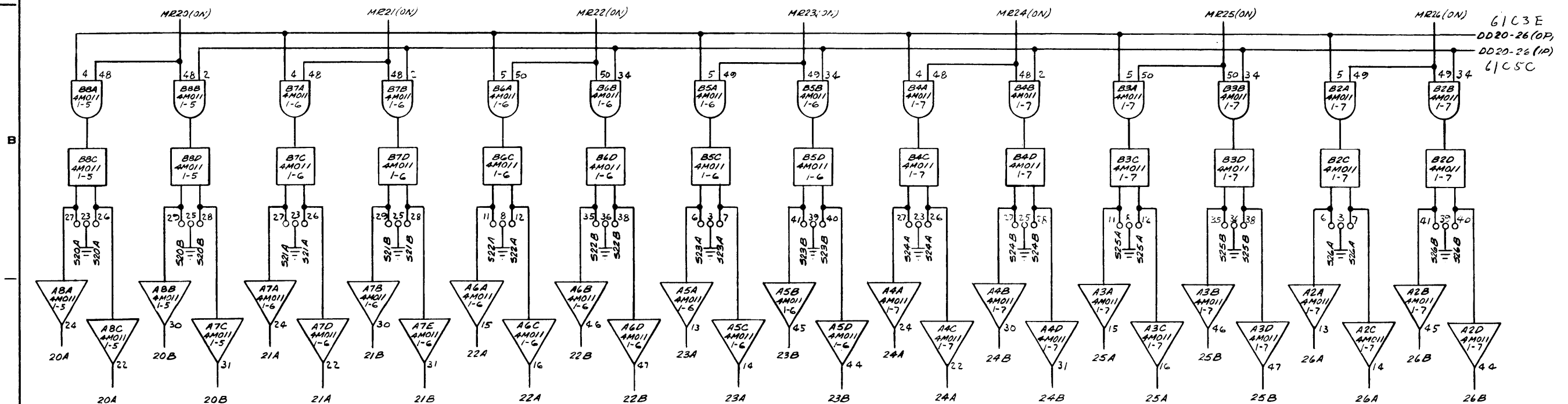
FROM PRINT NO 70 AREA "B"

REVISIONS	
AP. BY	DATE
APPROVED	1 Aug 1964
Checked	Sept 11, 1963



TO PRINT NO 70 AREA "D"

FROM PRINT NO 69 AREA "B"



TO PRINT 69 AREA "D"

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 4	±.02	±.005
ABOVE 4 TO 24	±.03	±.010
ABOVE 24	±.04	±.015
ANGULAR DIMENSIONS ± 1/2°		
SEE PURCH SPEC FOR STOCK TOLERANCE		

DETAILED LOGIC DIAGRAM

SENSE PREAMP AND DIGIT DRIVER C2 & C3

FIRST MADE FOR MI-36824 USED ON 8541829

DRAWN BY [Signature] CHECKED BY [Signature]

DESIGNED BY [Signature] RADIO CORPORATION OF AMERICA

COMMODITY CODE

8645985

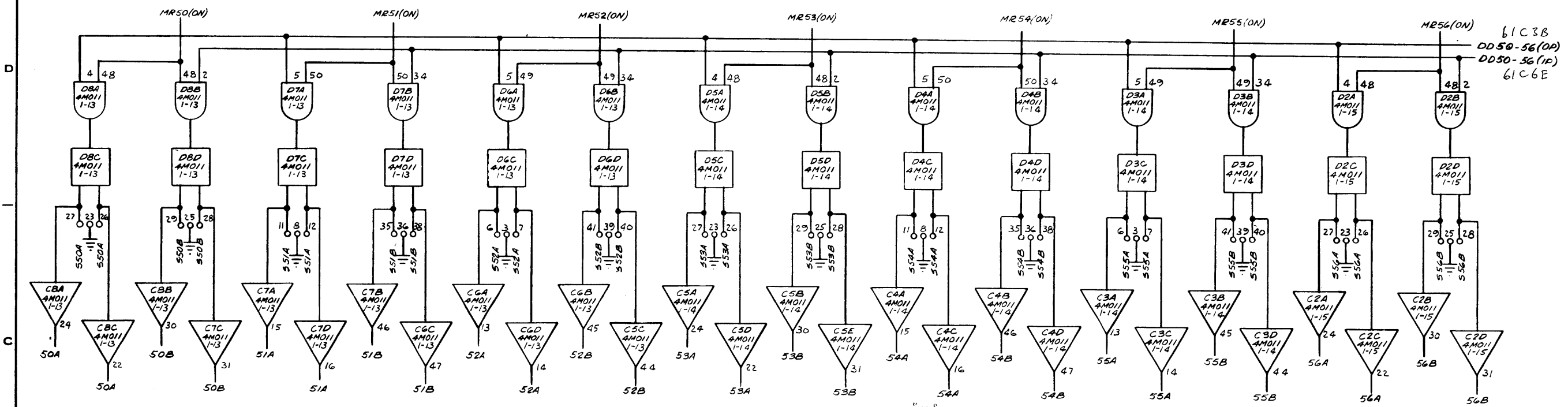
D 8645985

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DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

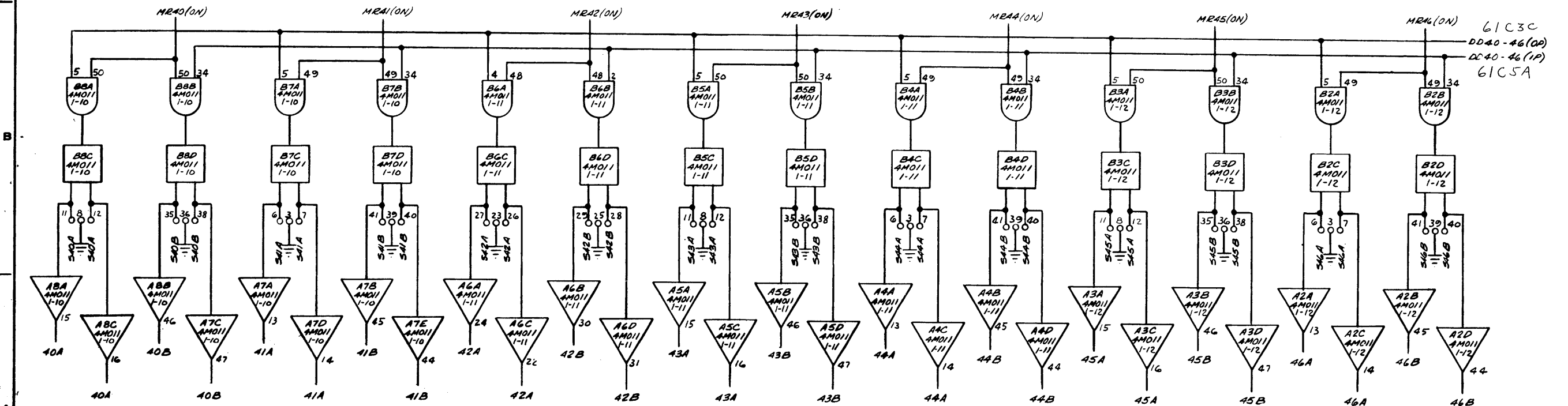
FROM PRINT No 72 AREA "B"

REVISIONS	
AP. BY	J.T. J.
DATE	SEP 16 1963
	0



TO PRINT 72 AREA "D"

FROM PRINT No 71 AREA "B"



TO PRINT No 71 AREA "D"

85

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VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			DETAILED LOGIC DIAGRAM		215 JB
BASIC DIMENSIONS	1 PLACE	3 PLACE	SENSE PREAMP AND DIGIT DRIVER C4 & C5		146
UP TO 6	±.02	±.01	FIRST NAME FOR M.I. 36874	USED ON	PF
ABOVE 6 TO 24	±.03	±.02	DRAWN BY: J. J. J.	CHECKED BY: J. J. J.	V704
ABOVE 24	±.04	±.03	DESIGNED BY: J. J. J.	COMMODITY CODE	JF
ANGULAR DIMENSIONS ± 1/2°			RADIO CORPORATION OF AMERICA		F8L
SEE PARTIAL SPEC. FOR DIM. TOLERANCES			D 8645986		F8D
			CROSS REF. NO. 48671		F8E

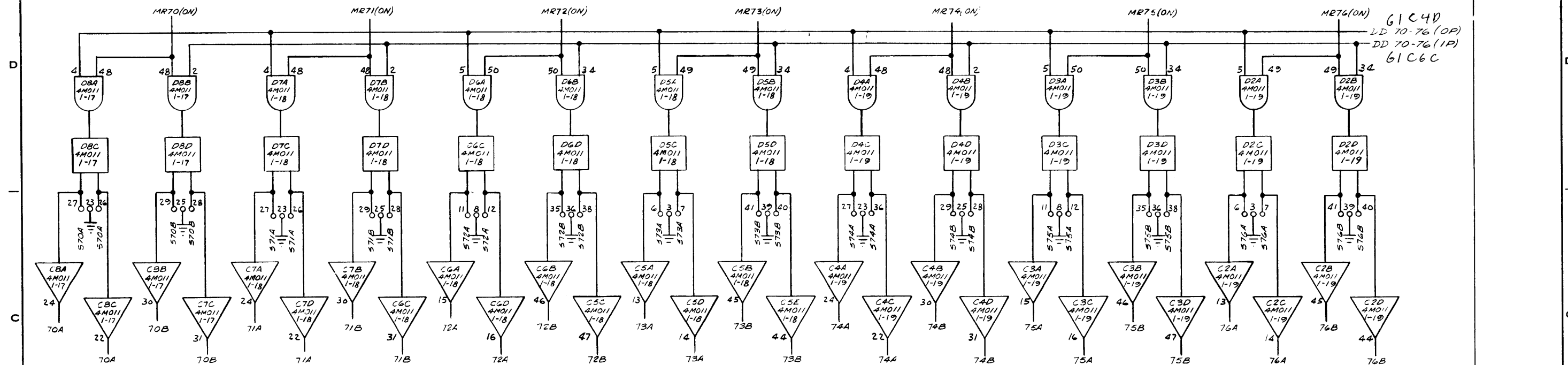
8645986

8645986

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

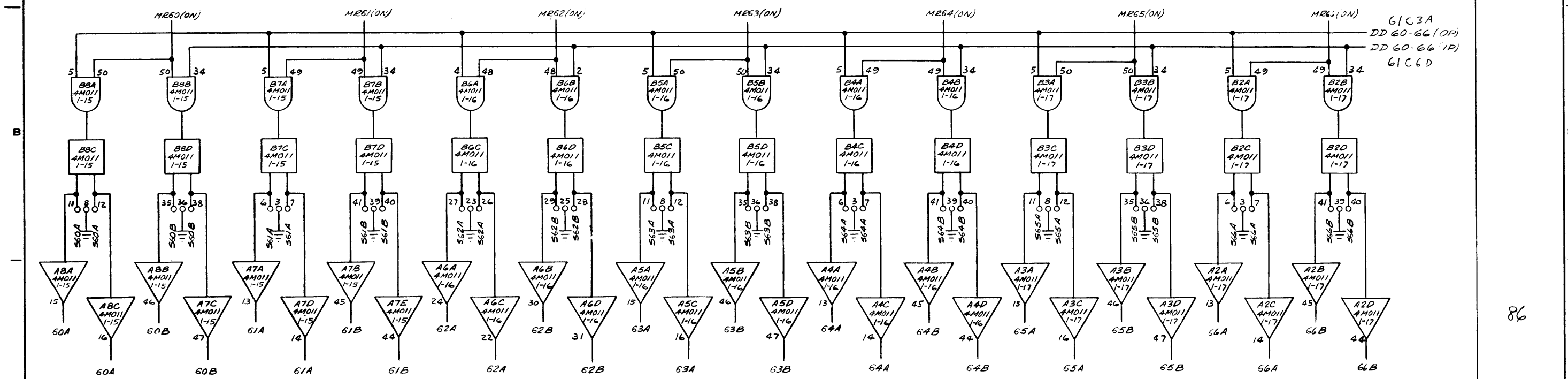
from PRINT 74 AREA 'B'

REVISIONS	
AP. BY	1/16/63
DATE	16 1963



T. PRINT 74 AREA 'D'

from PRINT 73 AREA 'B'



T. PRINT 73 AREA 'D'

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 4	±.02	±.005
ABOVE 4 TO 24	±.03	±.010
ABOVE 24	±.04	±.015
ANGULAR DIMENSIONS ±.1°		
SEE PURCH SPEC FOR STOCK TOLERANCE		

DETAILED LOGIC DIAGRAM

SENSE PRE AMP AND DIGIT DRIVER CG4C7

FIRST MADE FOR MI-36874 USED ON
DRAWN BY *W. J. ...* CHECKED BY *...* 16 1963

DESIGNED BY *...* RADIO CORPORATION OF AMERICA
COMMODITY CODE **D 8645987**

8645987

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86

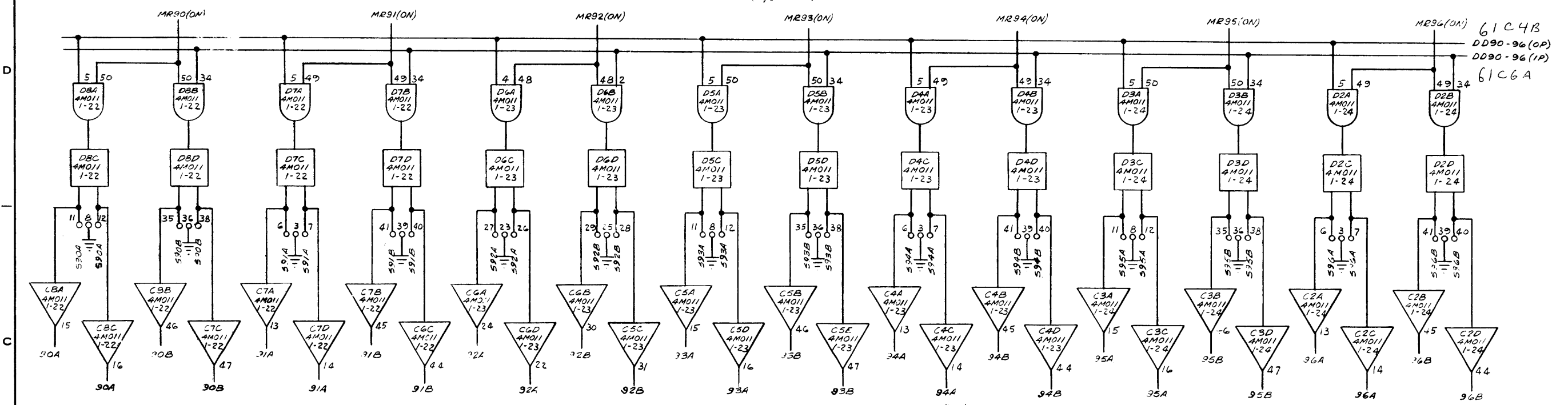
3301

16/6

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	DATE
	11/11/63

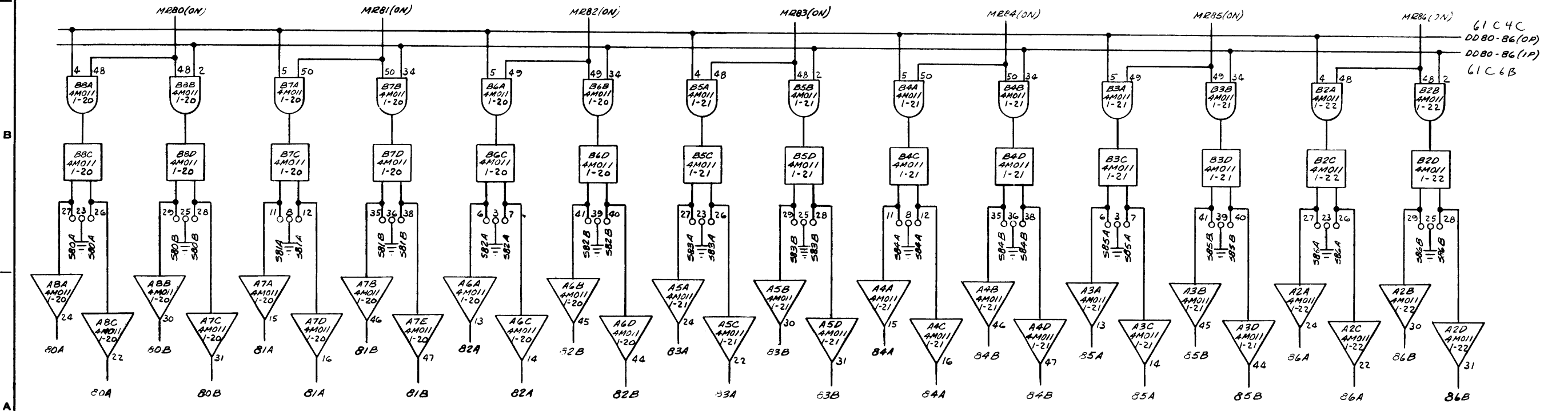
from PRINT 76 AREA "B"



61C4B
DD90-96(OP)
DD90-96(IP)
61C6A

To PRINT 76 AREA "D"

from PRINT No. 75 AREA "B"



61C4C
DD80-86(OP)
DD80-86(IP)
61C6B

To PRINT No. 75 AREA "D"

87

3301

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8645988

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	3 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 4	±.01	±.005
ABOVE 4 TO 24	±.02	±.010
ABOVE 24	±.04	±.015

ENGRG LOGIC DIAGRAM

SENSE PREAMP AND DIGIT DRIVER C8 & C9

FIRST MADE FOR MI 36824 USED ON 8541829

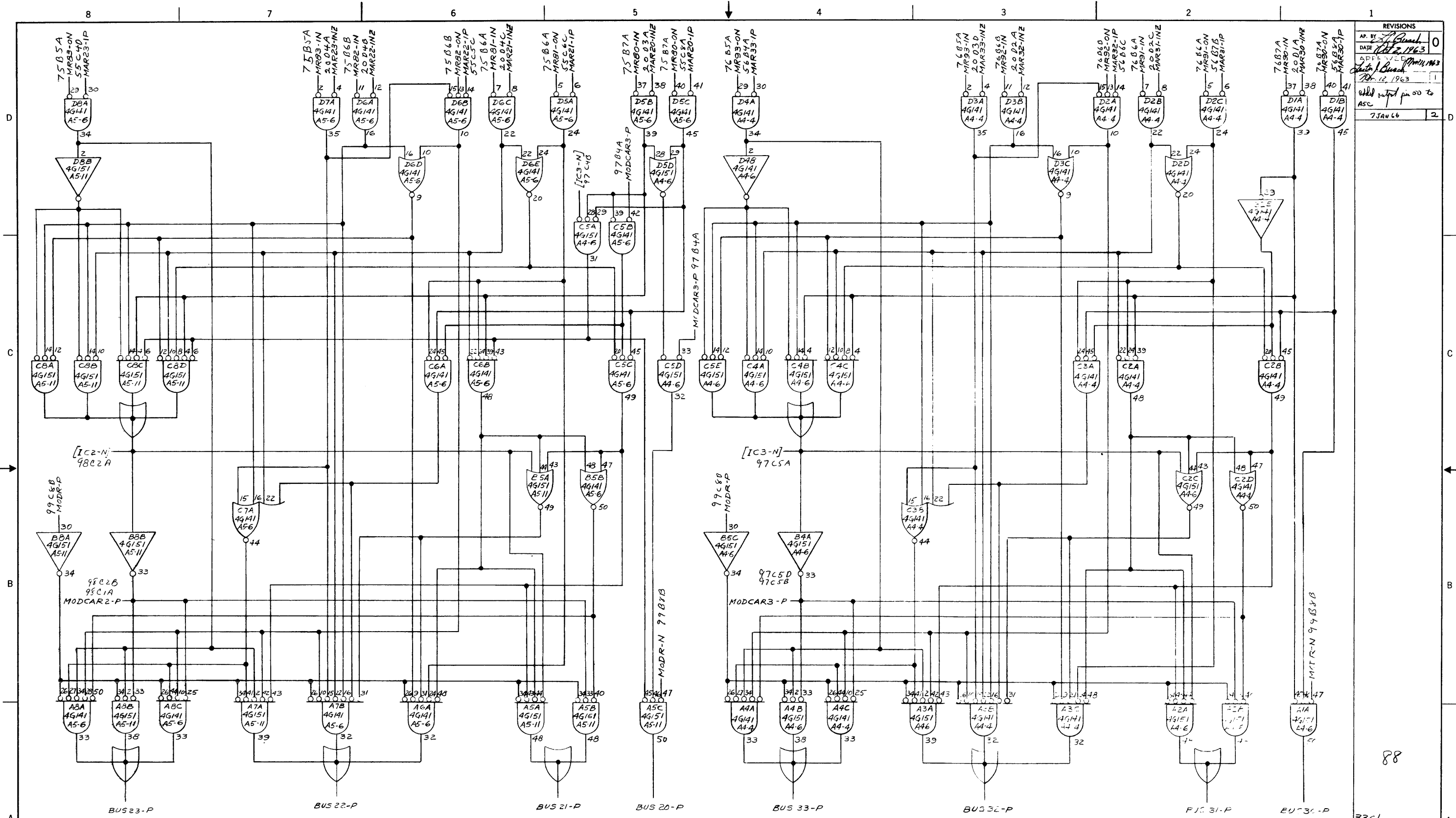
DESIGNED BY: *Milovan Anzures* CHECKED BY: *11/11/63*

RADIO CORPORATION OF AMERICA

COMMODITY CODE: **D 8645988**

CODE IDENT NO. 49671

8645988



REVISIONS	
AP. BY	0
DATE	10/2/1963
APPR. BY	J. H. WEIL
DATE	10/11/1963
add output pin 50 to ASC	
DATE	7 JAN 66

88

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8645997

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED:		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	± .02	± .005
ABOVE 6 TO 24	± .03	± .010
ABOVE 24	± .06	± .015

DETAILED LOGIC DIAGRAM
INDEX ADDER C2 AND C3

FIRST MADE FOR: _____ USED ON: _____

DRAWN BY: *John A. ...* CHECKED BY: *Oct 5, 1963*

DESIGNED BY: *...* COMMODITY CODE: _____

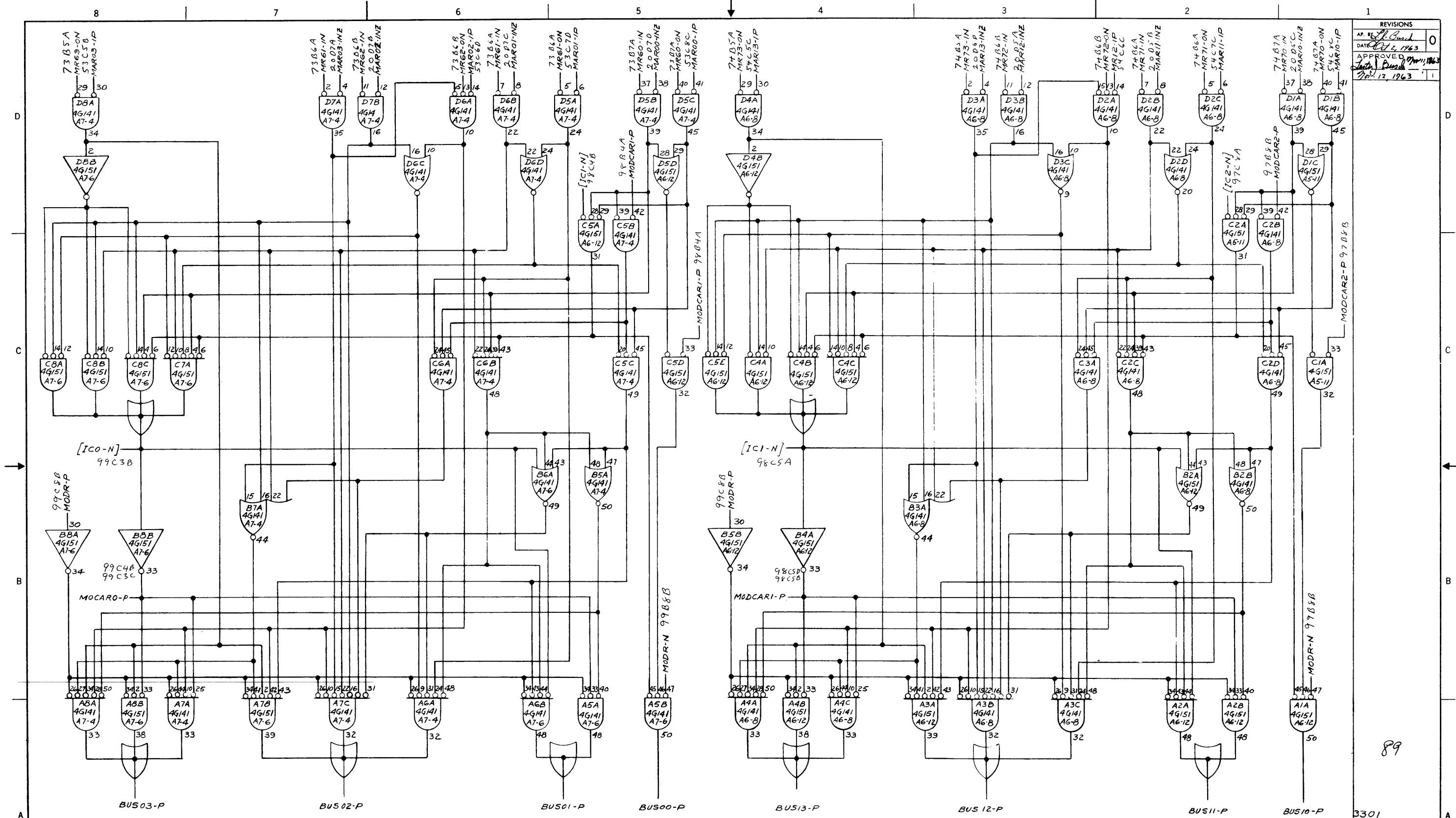
RADIO CORPORATION OF AMERICA

ANGULAR DIMENSIONS ± 1/2 DEG.
SITE PURCH. SPEC. FOR STOCK TOLERANCE.

CODE IDENT NO. 49671

D 8645997

SIZE SHEET CONT'D ON SH



REVISIONS	
AP. BY	0
DATE	Oct 5, 1963
APPROVED	
DATE	Nov 12, 1963

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			
BASIC DIMENSIONS	2 PLACE DECIMALS	2 PLACE DECIMALS	2 PLACE DECIMALS
UP TO 6	± .02	± .005	± .010
ABOVE 6 TO 24	± .03	± .010	± .015
ABOVE 24	± .06	± .015	± .020
ANGULAR DIMENSIONS ± 1/2 DEG			
SEE PURCH SPEC. FOR STOCK TOLERANCE			

DETAILED LOGIC DIAGRAM	
INDEX ADDER CO AND CI	
FIRST MADE FOR M.I. 26B22	USED ON B541846
DRAWN BY <i>Wm. W. ...</i>	CHECKED BY: <i>Oct 5, 1963</i>
DESIGNED BY <i>...</i>	COMMUNITY CODE
RADIO CORPORATION OF AMERICA	
CAMDEN, N.J.	
CODE IDENT NO. 49671	SIZE
8645998	D 8645998
SHEET	CONT'D ON SH
215	

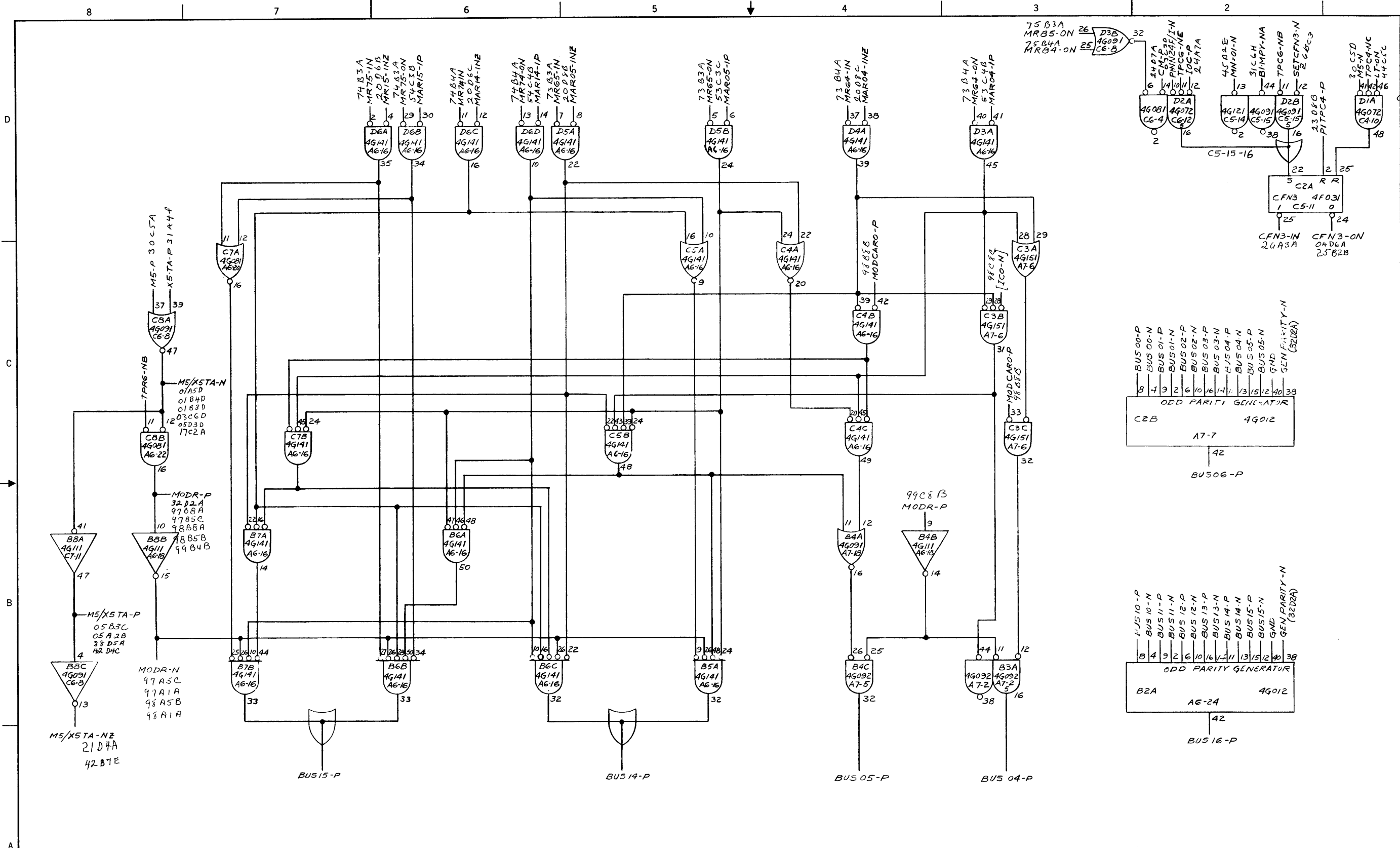
DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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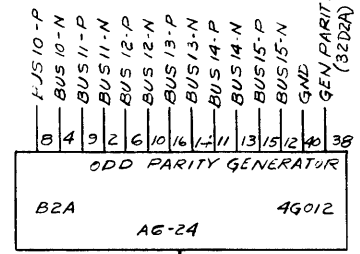
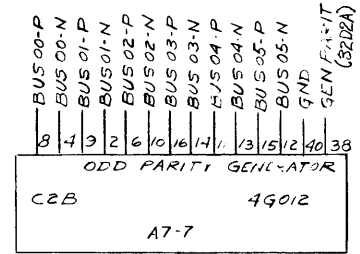
8645998

89

16/6



REVISIONS	
AP. BY: <i>[Signature]</i>	0
DATE: <i>Oct 28, 1963</i>	1
REVISION: <i>REVISED</i>	2
APPROVED: <i>[Signature]</i>	3
DATE: <i>Nov 12, 1963</i>	4
REVISION: <i>ZONE D2, C6-12-16 & C5-15-16 WAS CONN. TO C5-11-20 & 20 RESP</i>	5
DATE: <i>Apr 1, 1964</i>	6
REVISION: <i>DIA, INPUT 42 WAS TPC4-MD</i>	7
DATE: <i>21 Dec 64</i>	8
REVISION: <i>D28 and B28 output pins were 32</i>	9
DATE: <i>7 Apr 65</i>	10
REVISION: <i>DC6 MR74-IN was MR7-IN, D5B & C5B were A7-16</i>	11
DATE: <i>7 Apr 66</i>	12



DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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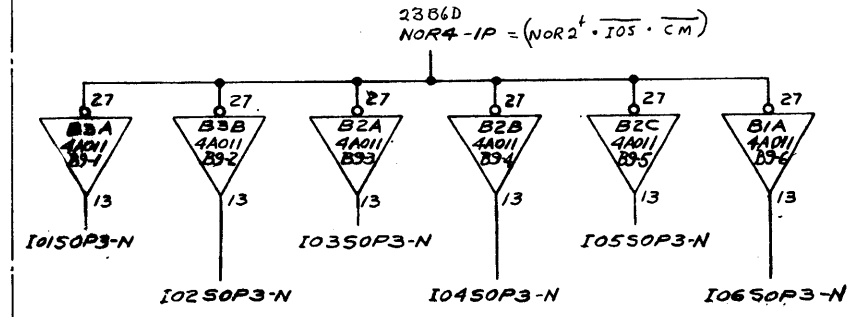
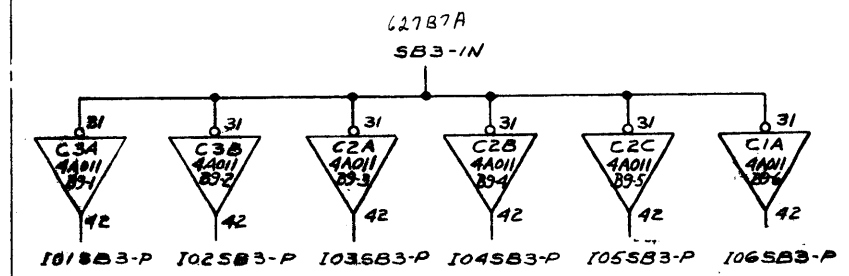
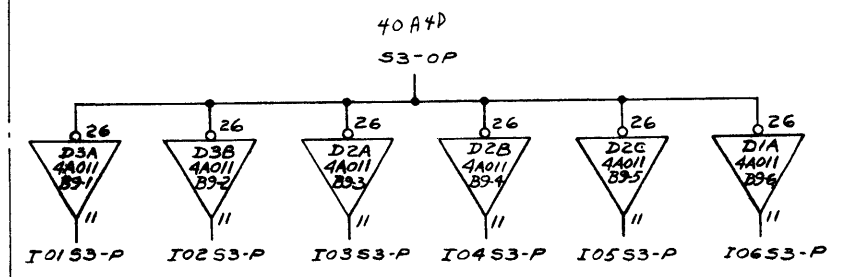
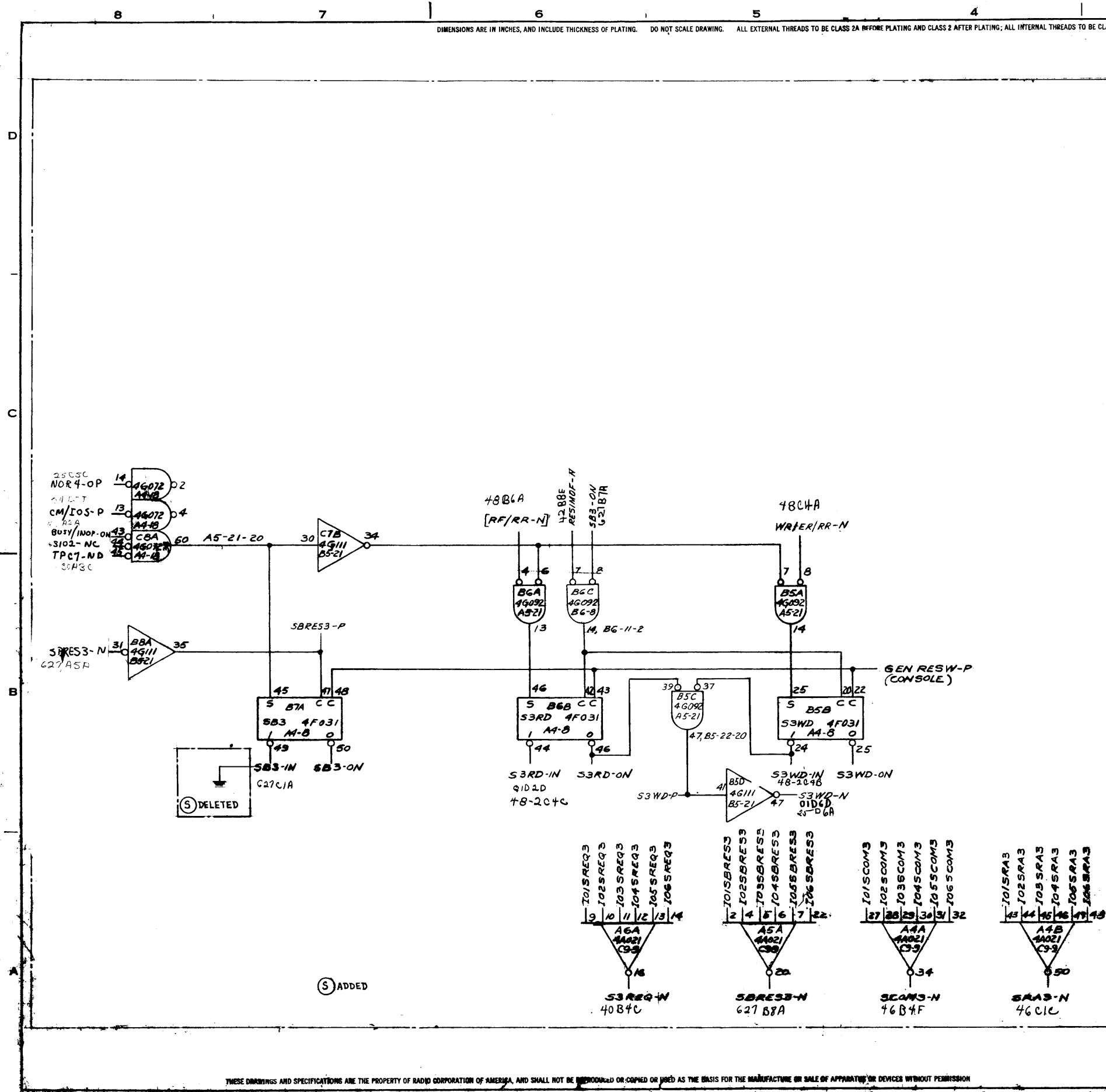
8645999

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED:		DETAILED LOGIC DIAGRAM	
BASIC DIMENSIONS	2 PLACE DECIMALS	INDEX ADDRESS ZONE CHARACTERS	
UP TO 6	± .005	FIRST MADE FOR	USED ON
ABOVE 6 TO 24	± .010	DRAWN BY: <i>[Signature]</i>	CHECKED BY: <i>[Signature]</i>
ABOVE 24	± .015	DESIGNED BY: <i>[Signature]</i>	COMMODITY CODE
ANGULAR DIMENSIONS ± 1/2 DEG.		RADIO CORPORATION OF AMERICA	
SEE PURCH SPEC FOR STOCK TOLERANCES.		CAMDEN, N.J.	
		SIZE: D	SHEET: 8645999
		CONT'D ON SH	

90

3301

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED



REVISIONS	
AP. BY	0
DATE	
APPROVED	
INFO ADDED	
BY	
BY	
DELETED, SIG. DELETED	
ADDED BGC	
ECN V704	
BY	
BY	
DELETED DBA, D7A, D7B, C7A, C7B, C7C, C6C, C5B, C5A, C5C, C4A, C4B, C4A-B WAS 11A-N/RR-N, ADDED B5C+B5D, ECN V704, A.D., ECN V704, I.C. 265, 265, 4	5
ELEMENT COM. PIN 43, SIGNAL NAME WAS INT II-ON, ECN V704, J.S.L., ECN V704, 7 Oct 64	

LOGIC ELEMENT CODE	
4A-B	4A-B
4A-B	4A-B
4A-B	4A-B
4A-B	4A-B
4A-B	4A-B
4A-B	4A-B
4A-B	4A-B
4A-B	4A-B

(S) SIMO MODE #3 (SF164) MI-36849

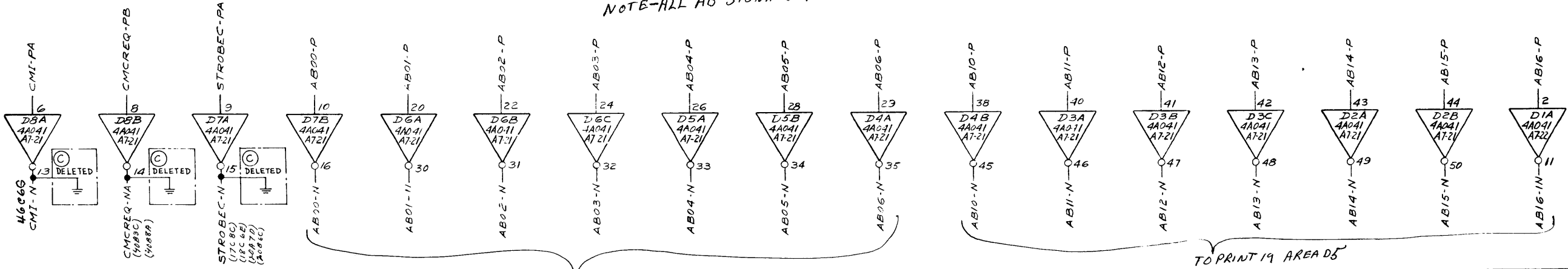
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RADIO CORPORATION OF AMERICA, AND SHALL NOT BE REPRODUCED OR COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

DETAILED LOGIC DIAGRAM				PF
S1M3 INSTRUCTION CONTROL				1A
DESIGNED BY	CHECKED BY	DATE	REVISION	
DESIGNED BY	CHECKED BY	DATE	REVISION	
RADIO CORPORATION OF AMERICA				
COMMUNITY CODE				
PART NUMBER				

6647627

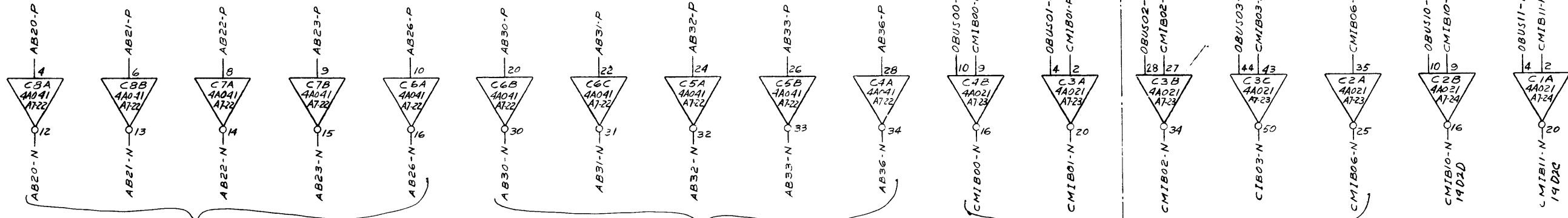
DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED

NOTE-ALL AB SIGNALS FROM CMC TRANSMITTERS



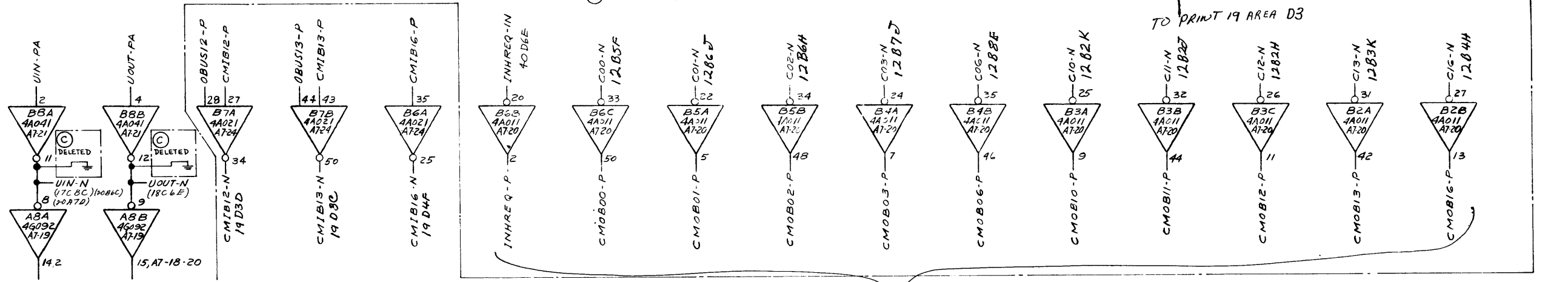
TO PRINT 19 AREA D5

TO PRINT 19 AREA D5



TO PRINT 19 AREA C5

TO PRINT 19 AREA C5



TO CMC REVR

TO CMC REVR

REVISIONS

AP. BY: [Signature]	0
DATE: Dec 11, 1963	
AP. BY: [Signature]	1
DATE: Dec 13, 1963	
AP. BY: [Signature]	2
DATE: Dec 2, 1964	
AP. BY: [Signature]	3
DATE: Dec 21, 1964	

AT C4B ADDED PIN 10
 C3A 4
 C3B 2B
 C3C 4A
 C2B 10
 C7A 4
 B7A 2B
 AT B7B ADDED PIN 14
 ECN 7B
 INFO ADDED SF297 CMC (MI-36870)
 Ben 21 Dec 1964

LOGIC ELEMENT INDEX

A7-19
A7-20
A7-21
A7-22
A7-23
A7-24

DETAILED LOGIC DIAGRAM

CMC TRANSMITTER & RECEIVERS

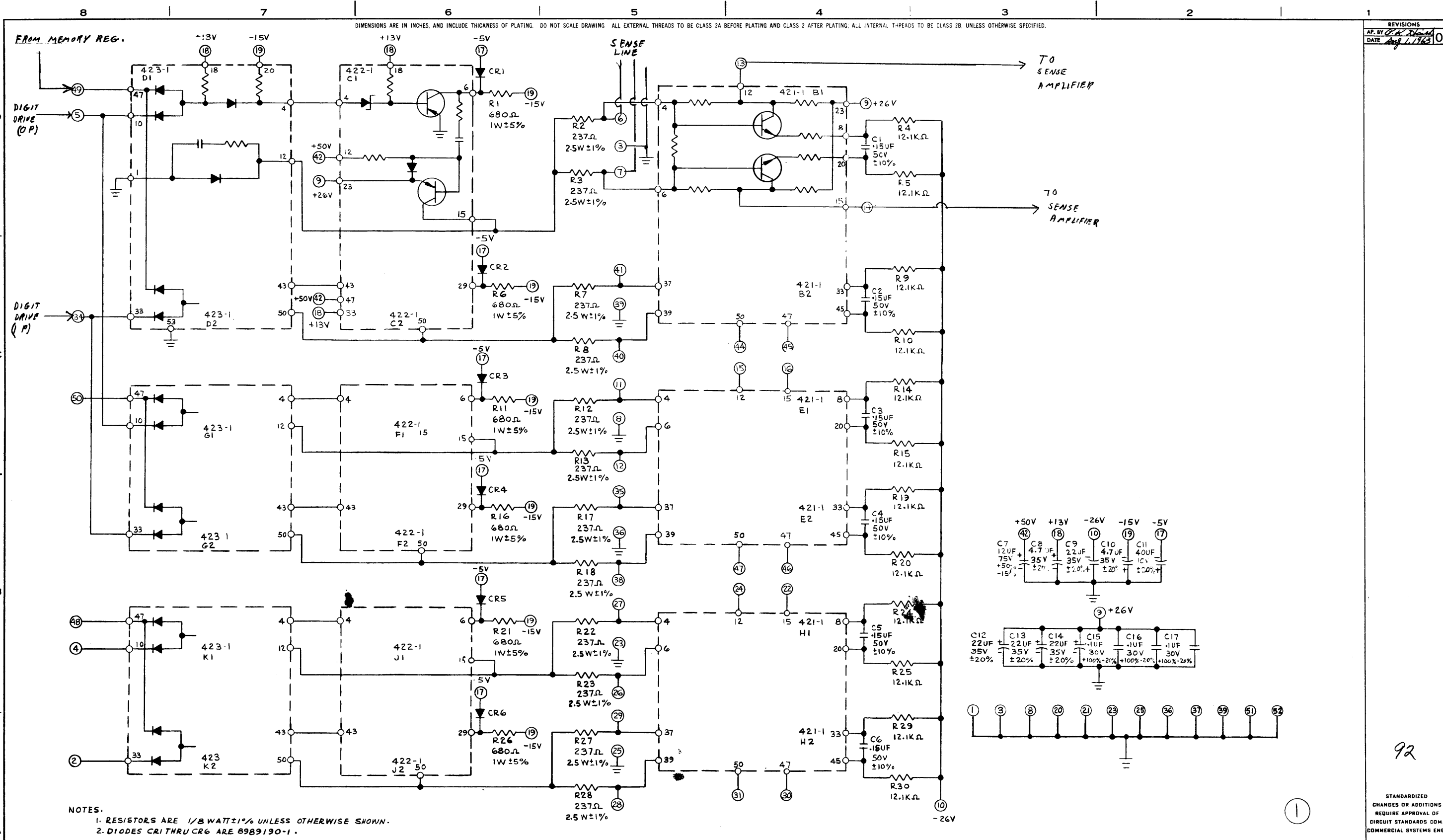
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED	PF
BASE DIMENSIONS	UP TO 6
1 PLACE DECIMALS	±.005
2 PLACE DECIMALS	±.010
3 PLACE DECIMALS	±.015
REGULAR DIMENSIONS	SEE PAR. SPEC. FOR STOCK TOLERANCE
FIRST MADE FOR	USED ON
DRAWN BY [Signature]	CHECKED BY [Signature]
DESIGNED BY [Signature]	DATE: Dec 9, 1964
RADIO CORPORATION OF AMERICA	COMMODITY CODE
8645717	D 8645717
CODE IDENT NO. 49671	SIZE

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8645717

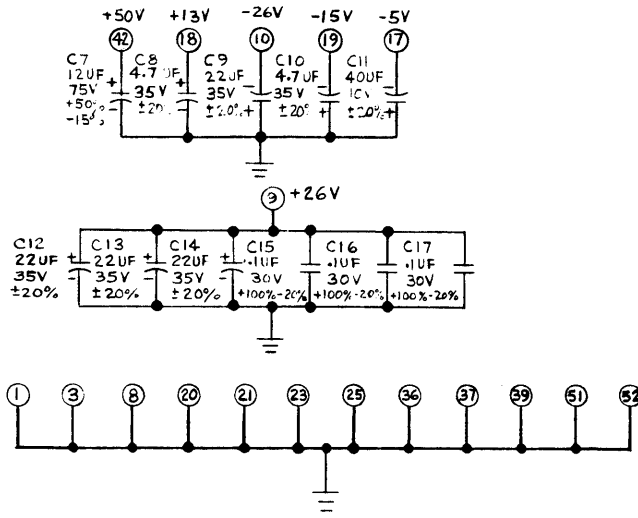
3301

91a



NOTES:
 1. RESISTORS ARE 1/8 WATT ±1% UNLESS OTHERWISE SHOWN.
 2. DIODES CR1 THRU CR6 ARE 9989190-1.

REVISIONS	
AP. BY <i>[Signature]</i>	0
DATE <i>Aug 1, 1963</i>	



STANDARDIZED CHANGES OR ADDITIONS REQUIRE APPROVAL OF CIRCUIT STANDARDS COM. COMMERCIAL SYSTEMS ENG.

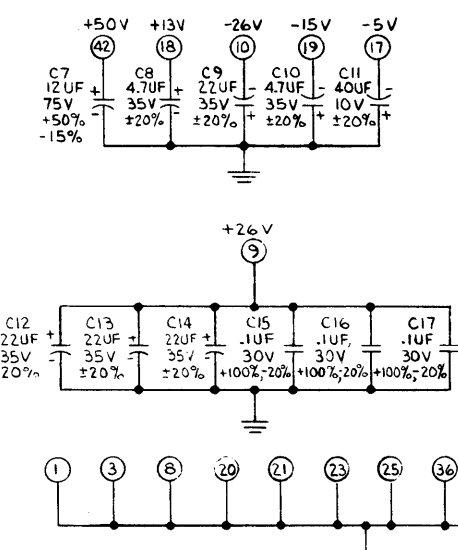
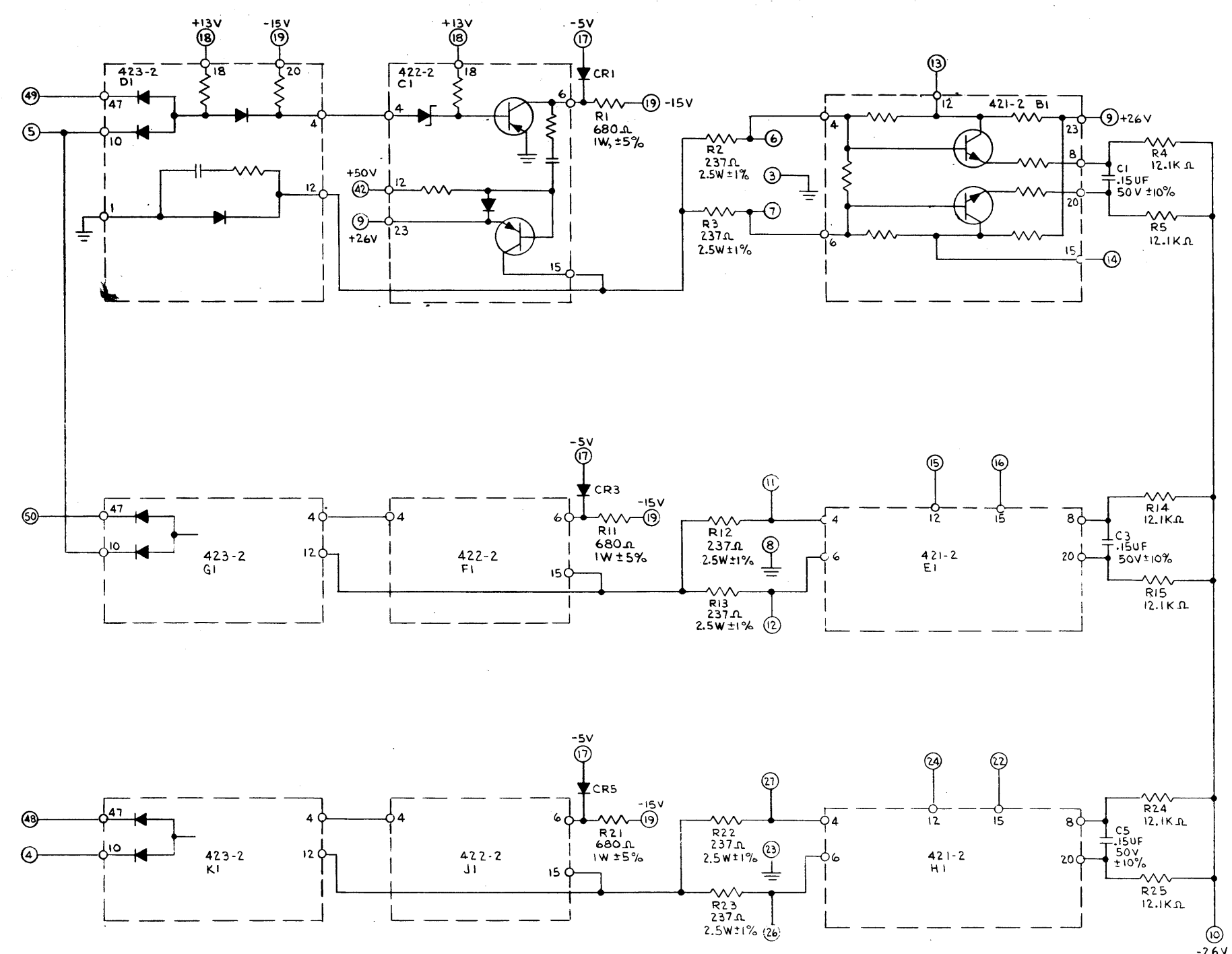
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			SCHEMATIC DIAGRAM		J8
BASIC DIMENSION	2 PLACE DECIMALS	3 PLACE DECIMALS	4MOII PLUG-IN		215
UP TO 6	±.02	±.005	FIRST MADE FOR M136824	USED ON B541504-502	7704
ABOVE 6 TO 24	±.03	±.010	DRAWN BY <i>[Signature]</i> 30, 1963	CHECKED BY <i>[Signature]</i>	JF
ABOVE 24	±.06	±.015	DESIGNED BY <i>[Signature]</i> 20, 1963	COMMODITY CODE	FRU
ANGULAR DIMENSIONS ±.01			RADIO CORPORATION OF AMERICA		PE
SEE PUNCH SPEC FOR STOCK TOLERANCE			D 8627663		146
			CODE IDENT NO. 49671		TP

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20 8627663

92

REVISIONS	
AP. BY	0
DATE	Aug 1, 1963



- NOTES:
1. RESISTORS ARE 1/8 WATT ± 1% UNLESS OTHERWISE SHOWN.
 2. DIODES CR1 THRU CR6 ARE 8989190-1

STANDARDIZED CHANGES OR ADDITIONS REQUIRE APPROVAL OF CIRCUIT STANDARDS COM. COMMERCIAL SYSTEMS ENG.

93

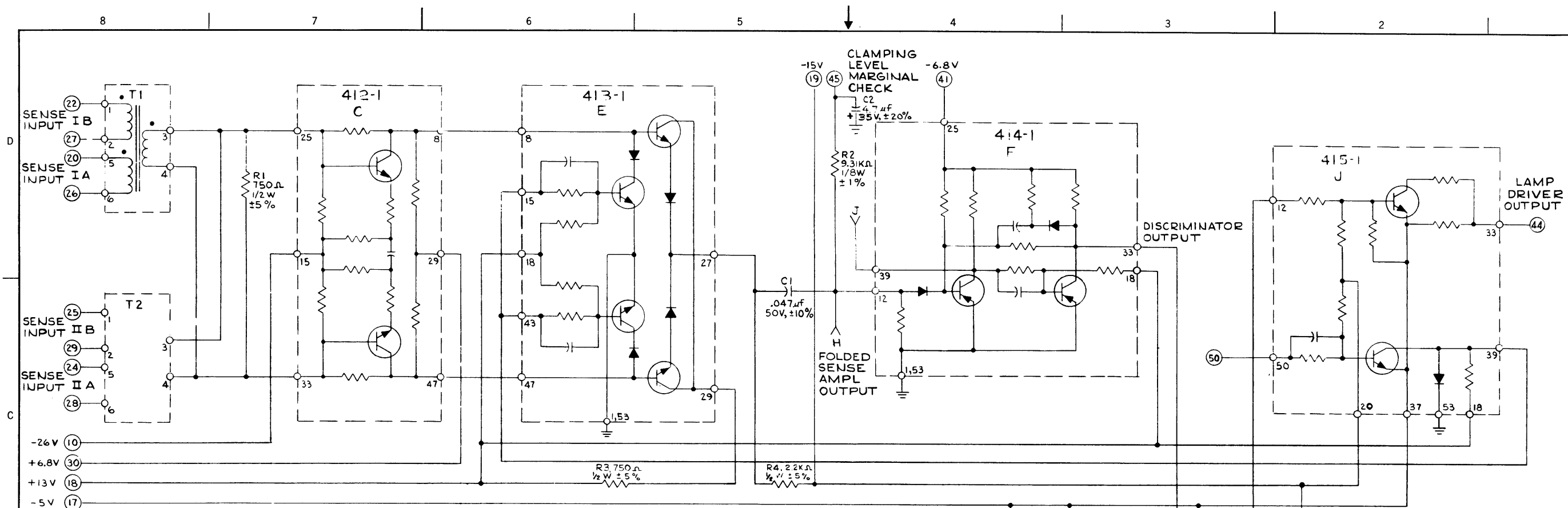
DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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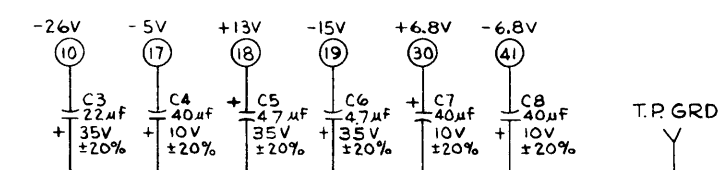
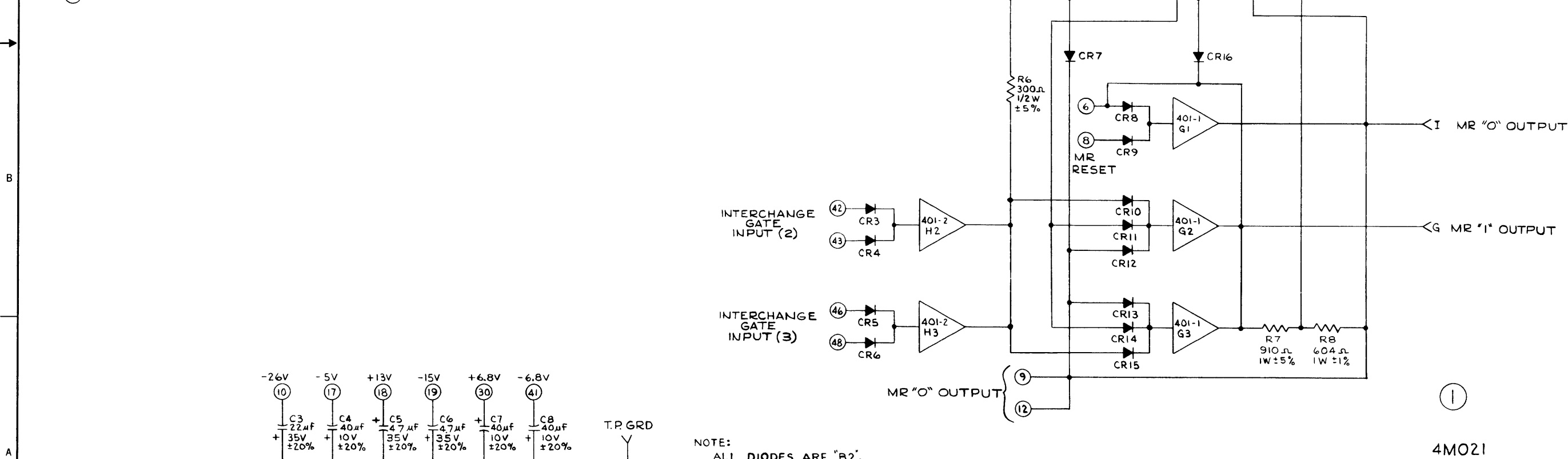
8627691

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			SCHEMATIC DIAGRAM		J8
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	4M012 PLUG-IN		V704
UP TO 6	± .02	± .005	FIRST MADE FOR MI-36824	USED ON 8541504-503	VF
ABOVE 6 TO 24	± .03	± .010	DRAWN BY R. McOmman 22 July 1963	CHECKED BY [Signature]	JF
ABOVE 24	± .06	± .015	DESIGNED BY	COMMODITY CODE	FRP
ANGULAR DIMENSIONS ± 1/2 DEG			RADIO CORPORATION OF AMERICA		DF
SEE PURCH. SPEC. FOR STOCK TOLERANCES			D 8627691		1A6
			SIZE SHEET	CONT'D ON SH	TP
					215

16
6



REVISIONS	
AP. BY	<i>P.A. Hand</i>
DATE	<i>Aug 2, 1963</i>
	0



NOTE:
ALL DIODES ARE "B2".

GRD PINS: 1, 3, 5, 7, 11, 13, 14, 15, 16,
21, 23, 36, 37, 47, 49, 51, 52

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8627694

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			CONNECTION DIAGRAM		4M021	
BASIC DIMENSION	2 PLACE DECIMALS	3 PLACE DECIMALS	FIRST MADE FOR MI-36824	USED ON 8541510-502	JB	146
UP TO 6	± .02	± .005	DRAWN BY R.M. Cannon 25 July 1963	CHECKED BY [Signature]	FRP	V704
ABOVE 6 TO 24	± .03	± .010	DESIGNED BY	COMMODITY CODE	FRL	
ABOVE 24	± .06	± .015	RADIO CORPORATION OF AMERICA		JF	
ANGULAR DIMENSIONS ± 1/2 DEG			CAMDEN N.J.		TP	
SEE PURCH. SPEC. FOR STOCK TOLERANCES			CODE IDENT NO. 49671			215

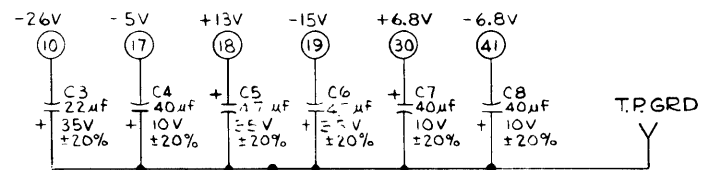
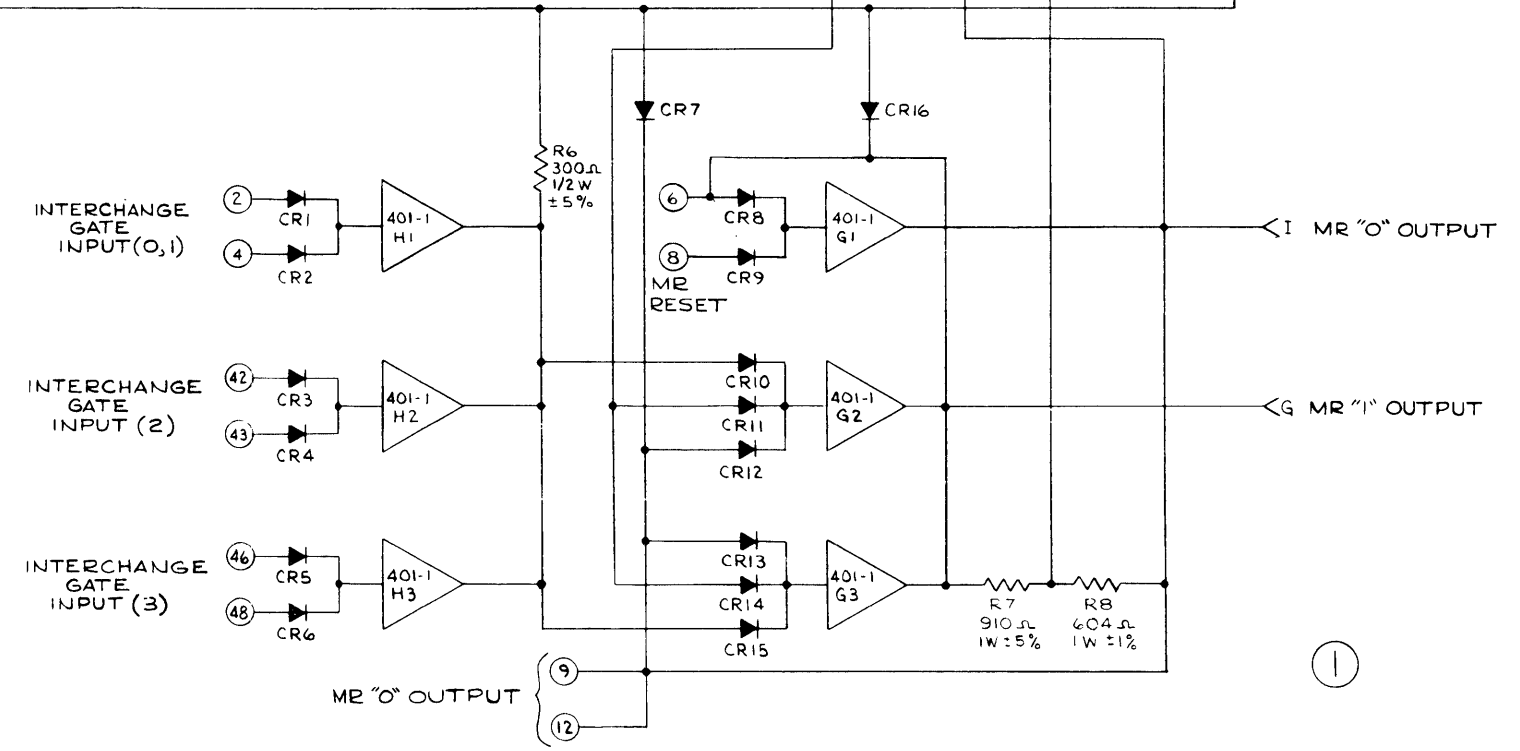
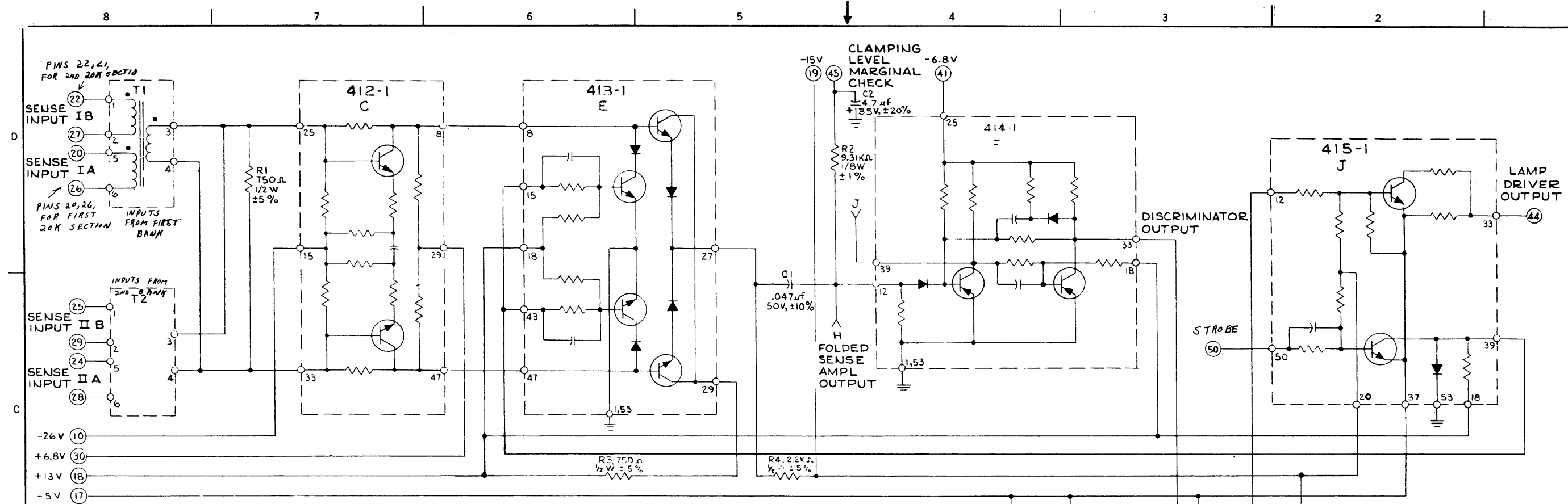
STANDARDIZED CHANGES OR ADDITIONS REQUIRE APPROVAL OF CIRCUIT STANDARDS COM. COMMERCIAL SYSTEMS ENG.

94

4M021

8627694

REVISIONS	
NO. BY	DATE
0	Aug 2, 1963



NOTE: ALL DIODES ARE 'B2'.

GRD PINS: 1, 3, 5, 7, 11, 13, 14, 15, 16, 21, 23, 36, 37, 47, 49, 51, 52

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8627695

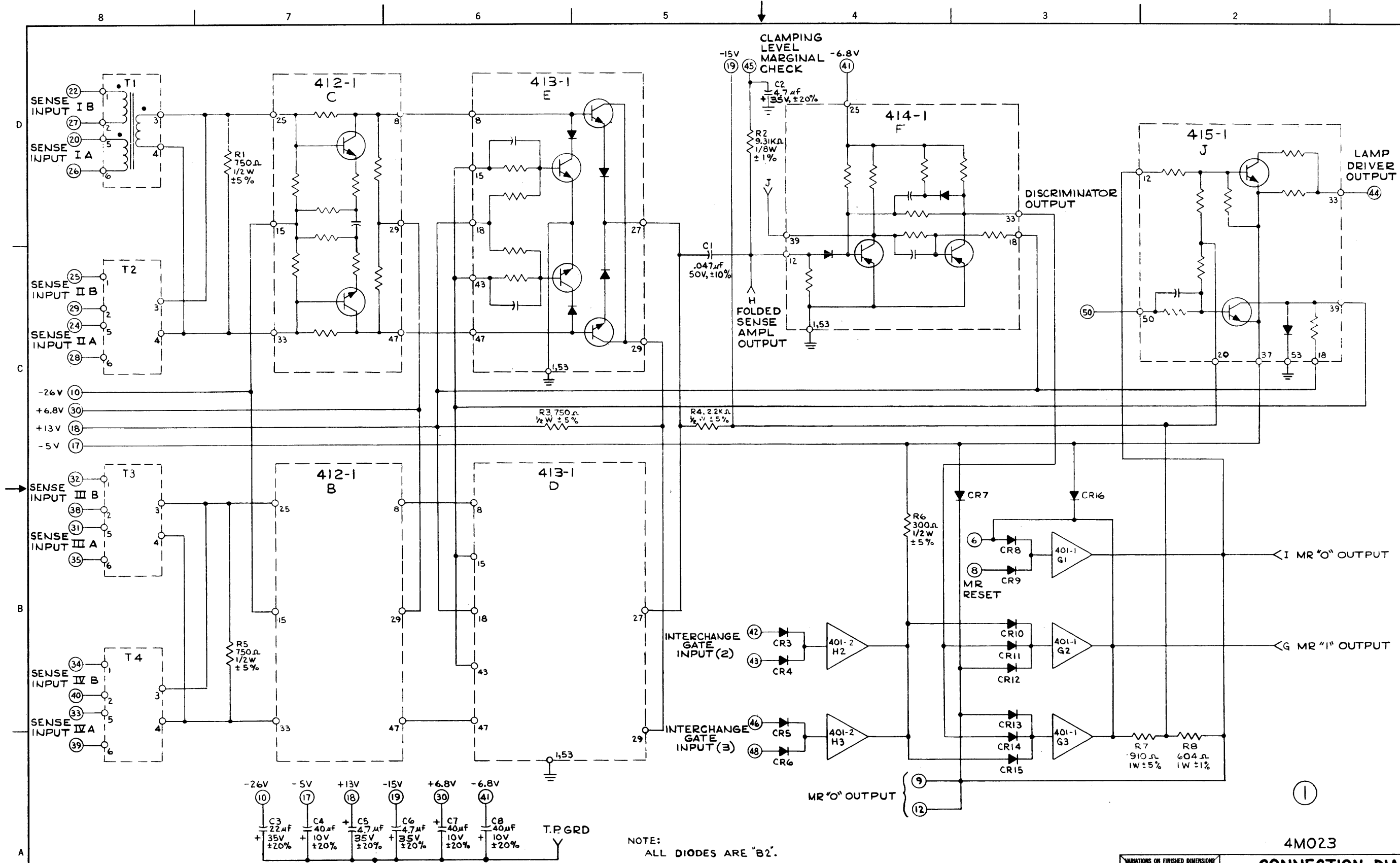
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			J8	
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	PF	142
UP TO 6	± .01	± .005	FRP	V704
ABOVE 6 TO 24	± .01	± .010	FRL	VF
ABOVE 24	± .01	± .015	JF	TP
ANGULAR DIMENSIONS ± 15 DEG			SIZE SHEET	
REF. PURCH. SPEC. FOR STOCK TOLERANCES			CONT'D ON SH.	
FIRST MADE FOR MI-36824			USED ON 8541510-503	
DRAWN BY R.M. Cannon 25 July 1963			CHECKED BY Ling & Feb	
DESIGNED BY			COMMODITY CODE	
RADIO CORPORATION OF AMERICA			D 8627695	
CAMDEN N. J.			CODE IDENT NO. 49671	

95

4M022

CONNECTION DIAGRAM 4M022

REVISIONS	
AP. BY <i>R.M. O'Brien</i>	0
DATE <i>Aug 2, 1963</i>	



GRD PINS: 1, 3, 5, 7, 11, 13, 14, 15, 16, 21, 23, 36, 37, 47, 49, 51, 52

NOTE: ALL DIODES ARE "B2".

STANDARDIZED CHANGES OR ADDITIONS REQUIRE APPROVAL OF COMMERCIAL SYSTEMS ENG.

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8627696

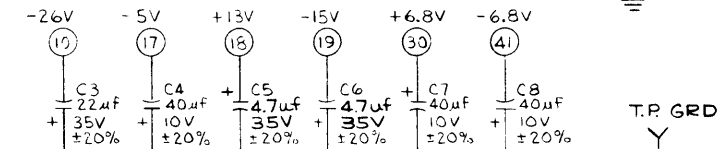
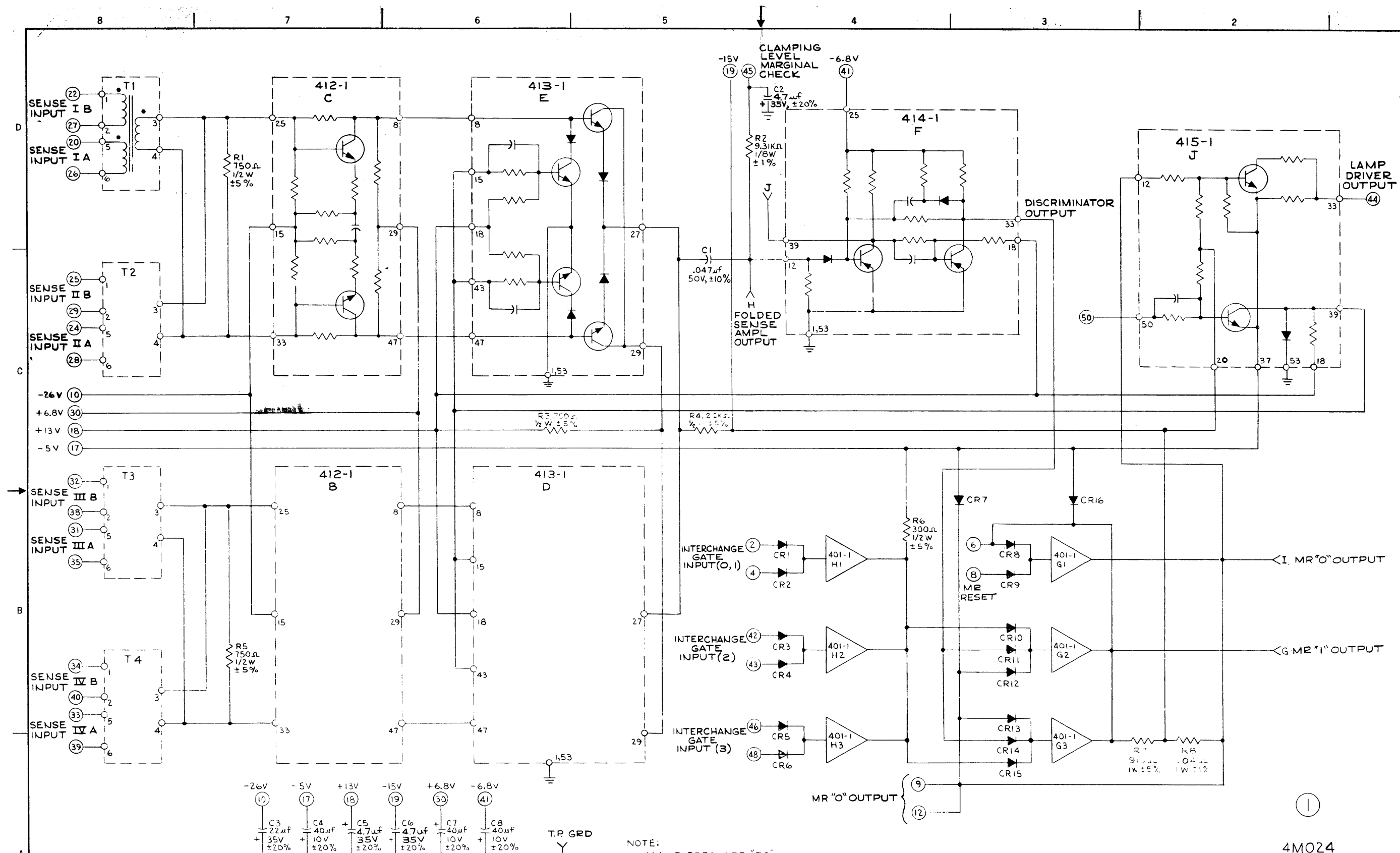
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	± .02	± .005
ABOVE 6 TO 24	± .03	± .010
ABOVE 24	± .06	± .015
ANGULAR DIMENSIONS ± 1/2 DEG		
SEE PURCH. SPEC. FOR STOCK TOLERANCES		

CONNECTION DIAGRAM 4M023	
FIRST MADE FOR MI-36824	USED ON 8541510-504
DRAWN BY <i>R.M. O'Brien</i> 25 July 1963	CHECKED BY <i>Aug 2, 1963</i>
DESIGNED BY	COMMODITY CODE
RADIO CORPORATION OF AMERICA	
CAMDEN N.J.	
CODE IDENT NO. 45671	
SIZE D	SHEET 8627696
CONF'D ON SH	

96

JB	16
DE	16
142	
V794	
FRP	
FEL	
JF	
TP	
215	

REVISIONS	
AP. BY	<i>R.H. DeWitt</i>
DATE	<i>Aug 2, 1963</i>
	0



NOTE: ALL DIODES ARE "B2".

GRD PINS : 1, 3, 5, 7, 11, 13, 14, 15, 16, 21, 23, 36, 37, 47, 49, 51, 52

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8627697

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			FIRST MADE FOR MI-36824		USED ON 8541510-505	
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	± .005	DRAWN BY <i>R.M. Cannon</i>	25 July 1963	CHECKED BY <i>...</i>
UP TO 6	± .02	± .010	DESIGNED BY	RADIO CORPORATION OF AMERICA		
ABOVE 6 TO 24	± .03	± .015	CAMDEN, N.J.			
ABOVE 24	± .06	± .020	CODE IDENT NO 49671			
ANGULAR DIMENSIONS ± 15 DEG			SIZE		SHEET	
SEE PURCH SPEC FOR STOCK TOLERANCE			D 8627697		215	

STANDARDIZED CHANGES OR ADDITIONS REQUIRE APPROVAL OF CIRCUIT STANDARDS COM. COMMERCIAL SYSTEMS ENG.

97

4M024

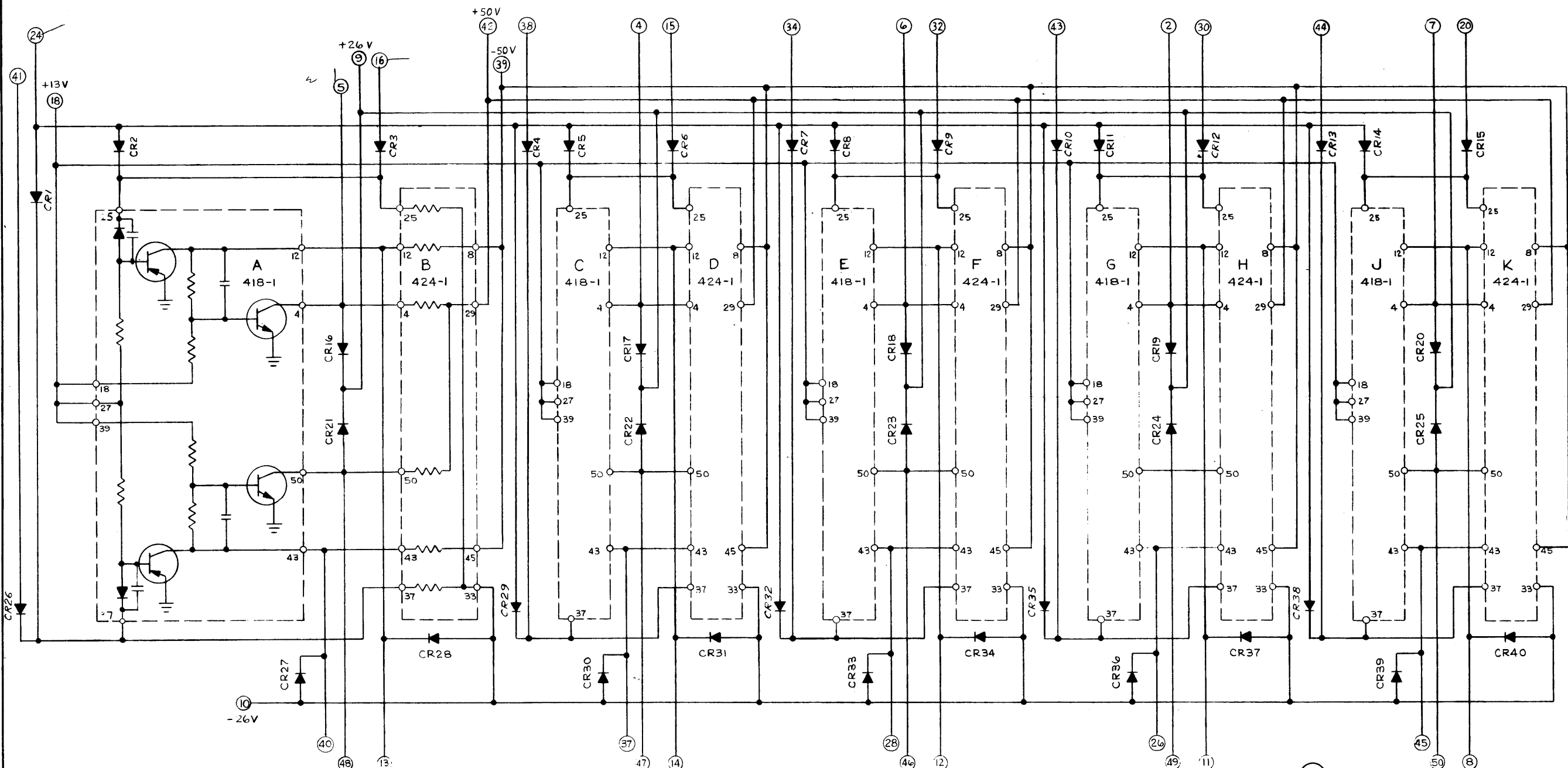
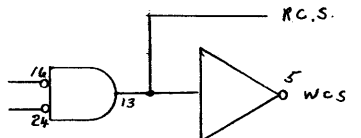
CONNECTION DIAGRAM 4M024

J 8
PF 146
V704
FRP
FRL
JF
TP
215

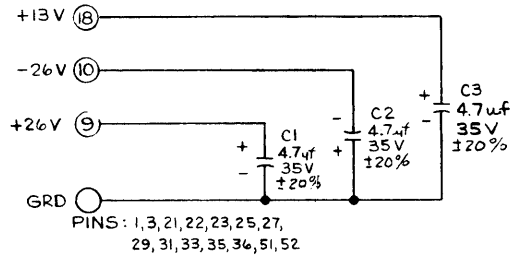
8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS
 AP. BY *[Signature]*
 DATE *July 2, 1962*



NOTES
 1. CIRCUITS 418-1 & 424-1 ARE REPEATED FOUR TIMES ON THIS DRAWING.



98

STANDARDIZED CHANGES OR ADDITIONS REQUIRE APPROVAL OF CIRCUIT STANDARDS COM. COMMERCIAL SYSTEMS ENG.

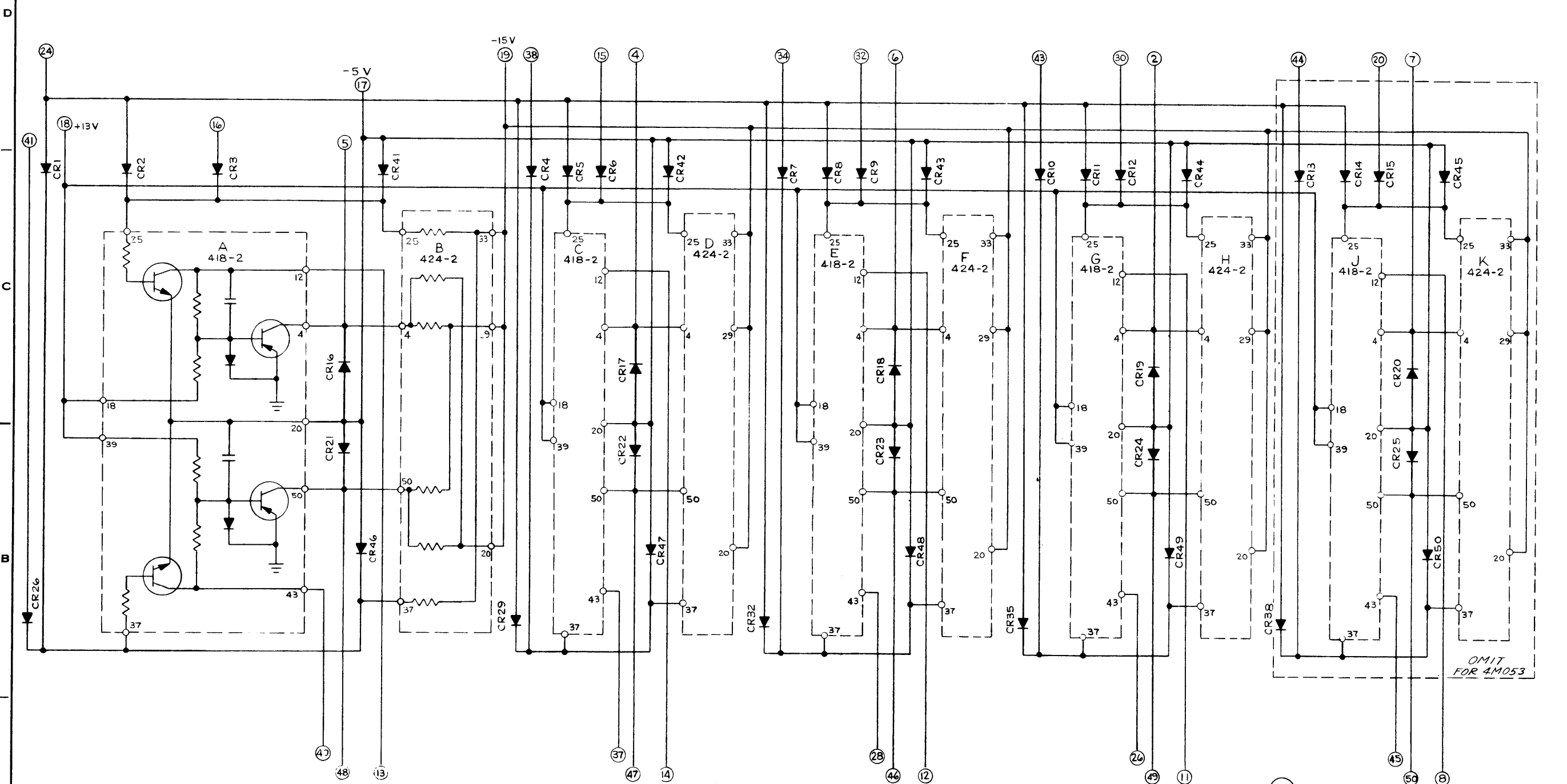
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			SCHEMATIC DIAGRAM	
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	PLUG-IN 4M052	
UP TO 4	±.02	±.005	FIRST MADE FOR M' 36324	USED ON 8541509-503
ABOVE 4 TO 24	±.010	±.015	DRAWN BY <i>[Signature]</i> July 3, 1962	CHECKED BY <i>[Signature]</i> July 2, 1963
ABOVE 25 TO 100	±.015	±.020	DESIGNED BY <i>[Signature]</i> July 3, 1962	COMMODITY CODE
ANGULAR DIMENSIONS	±.015		RADIO CORPORATION OF AMERICA CAMDEN, N.J.	
SEE PURCH SPEC FOR STOCK TOLERANCE			CODE IDENT NO. 49671	

27 8627675

D 8627675

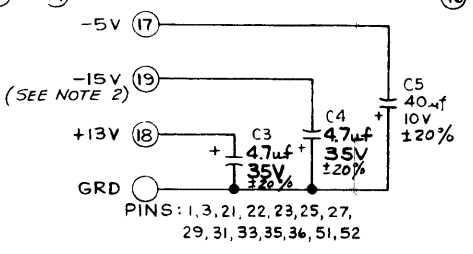
DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY: <i>[Signature]</i>	10
DATE: <i>8/17/62</i>	
ENCLOSURE DENOTING DELETIONS IN 4M053 & NOTE 2 ADDED	
<i>R.L.G. Nov. 27, 1963</i>	
<i>7/27/62 1</i>	



OMIT FOR 4M053

- NOTES
1. CIRCUITS 418-2 & 424-2 ARE REPEATED FOUR TIMES ON THIS DRAWING.
 2. FOR THE USE OF 4M053 APPLY -13 V TO PIN 19.



VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	3 PLACE DECIMALS	2 PLACE DECIMALS
UP TO 4	±.02	±.005
ABOVE 4 TO 24	±.03	±.010
ABOVE 24	±.04	±.015

SCHMATIC DIAGRAM
PLUG-IN 4M051.3

FIRST MADE FOR MI 36824 USED ON 8541509-502

DESIGNED BY *[Signature]* CHECKED BY *[Signature]*

RADIO CORPORATION OF AMERICA
 CAMDEN, N.J.
 CODE IDENT NO. 49671

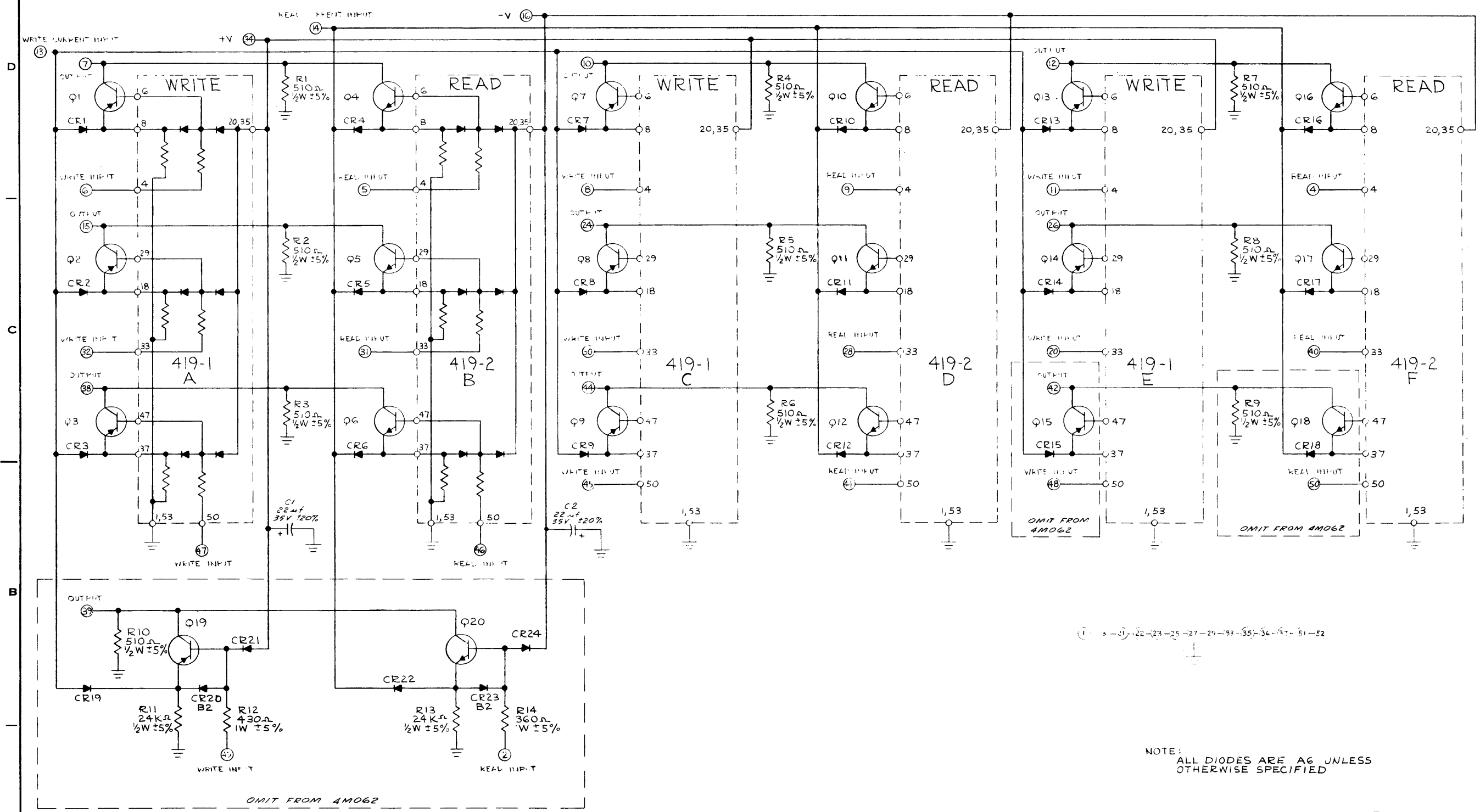
COMMODITY CODE

8627677

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REVISIONS
 AP. BY: *[Signature]*
 DATE: 26 July 1963
 ENCLOSURE DENOTING "OMIT FROM 4M062" 3 PLACES ADDED
 R.R. Co. Nov 27, 1963
 Nov. 27, 1963



(1) 3-22-23-25-27-29-33-35-36-47-51-52

NOTE: ALL DIODES ARE A6 UNLESS OTHERWISE SPECIFIED

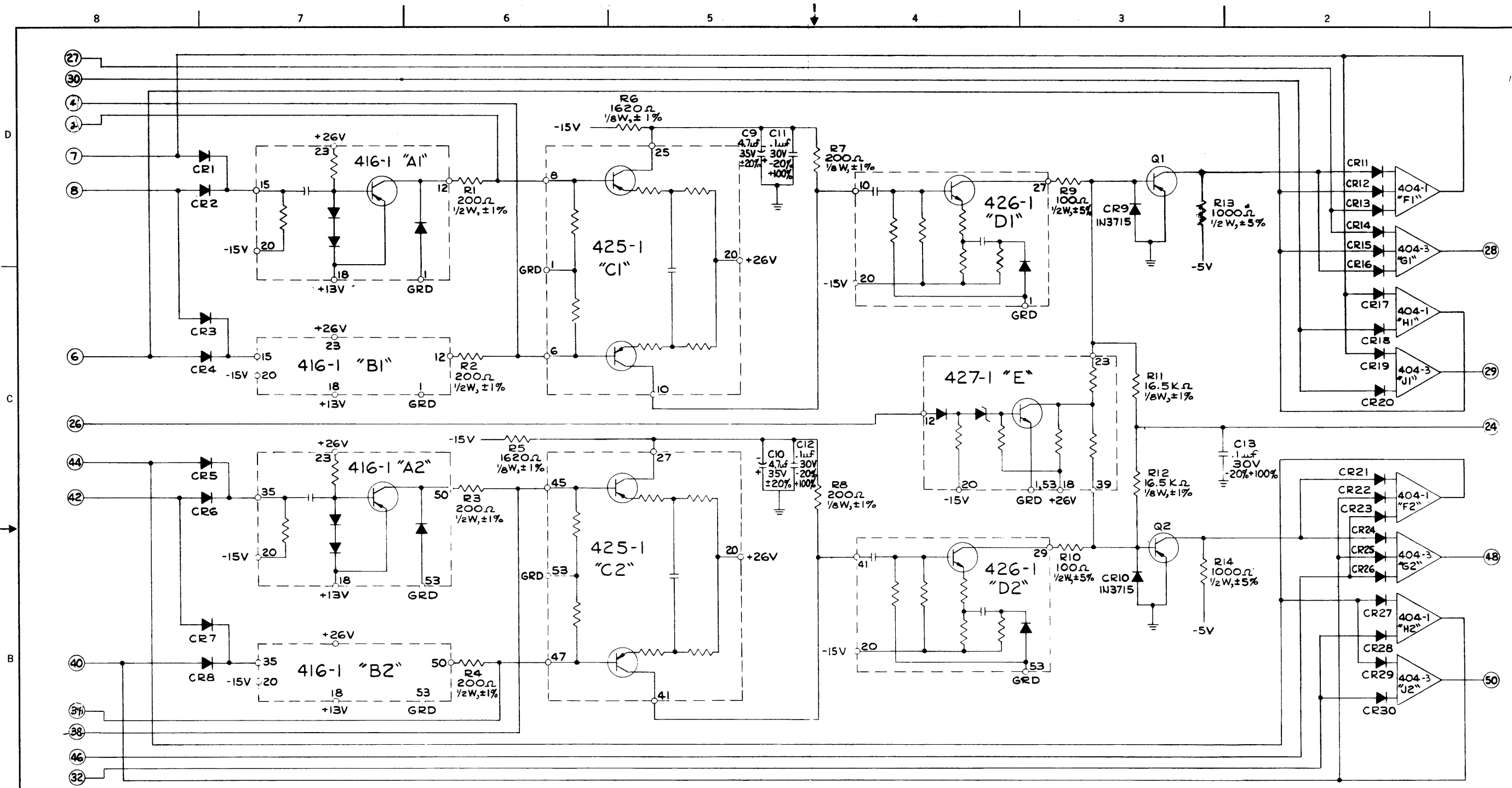
100

STANDARDIZED CHANGES OR ADDITIONS REQUIRE APPROVAL OF CIRCUIT STANDARDS COM. COMMERCIAL SYSTEMS ENG.

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		SCHEMATIC DIAGRAM		J8 2/5
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	4 PLACE DECIMALS	VT-4
UP TO 4	±.02	±.010	±.005	VF
ABOVE 4 TO 24	±.03	±.015	±.008	JF
ABOVE 24	±.06	±.025	±.015	FR1
ANGULAR DIMENSIONS	±.01	SEE PURCH SPEC FOR STOCK TOLERANCE		FR2
FIRST MADE FOR MT 36824		USED ON 854508-502		PF
DRAWN BY <i>[Signature]</i>		CHECKED BY <i>[Signature]</i>		TP
DESIGNED BY <i>[Signature]</i>		COMMODITY CODE		142
RADIO CORPORATION OF AMERICA		CODE IDENT NO. 49671		143
SIZE		D 8627670		144

28 8627670

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REVISIONS	
AP. BY	0
DATE	Aug 15, 1963

STANDARDIZED CHANGES OR ADDITIONS REQUIRE APPROVAL OF CIRCUIT STANDARDS COM. COMMERCIAL SYSTEMS ENG.

NOTE
1. ALL DIODES ARE B2 EXCEPT AS SHOWN.

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		CONNECTION DIAGRAM PLUG-IN 4M121		JOB	
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	FIRST MADE FOR	USED ON	DF
UP TO 6	± .02	± .005		8541536-502	VF
ABOVE 6 TO 24	± .03	± .010	DRAWN BY <i>John H. Helling Aug 14, 1962</i>	CHECKED BY <i>Aug 15, 1963</i>	146
ABOVE 24	± .06	± .015	DESIGNED BY	COMMODITY CODE	FRP
ANGULAR DIMENSIONS ± 15 DEG			RADIO CORPORATION OF AMERICA CAMDEN N. J.		FEL
SEE PURCH SPEC FOR STOCK TOLERANCES					TP

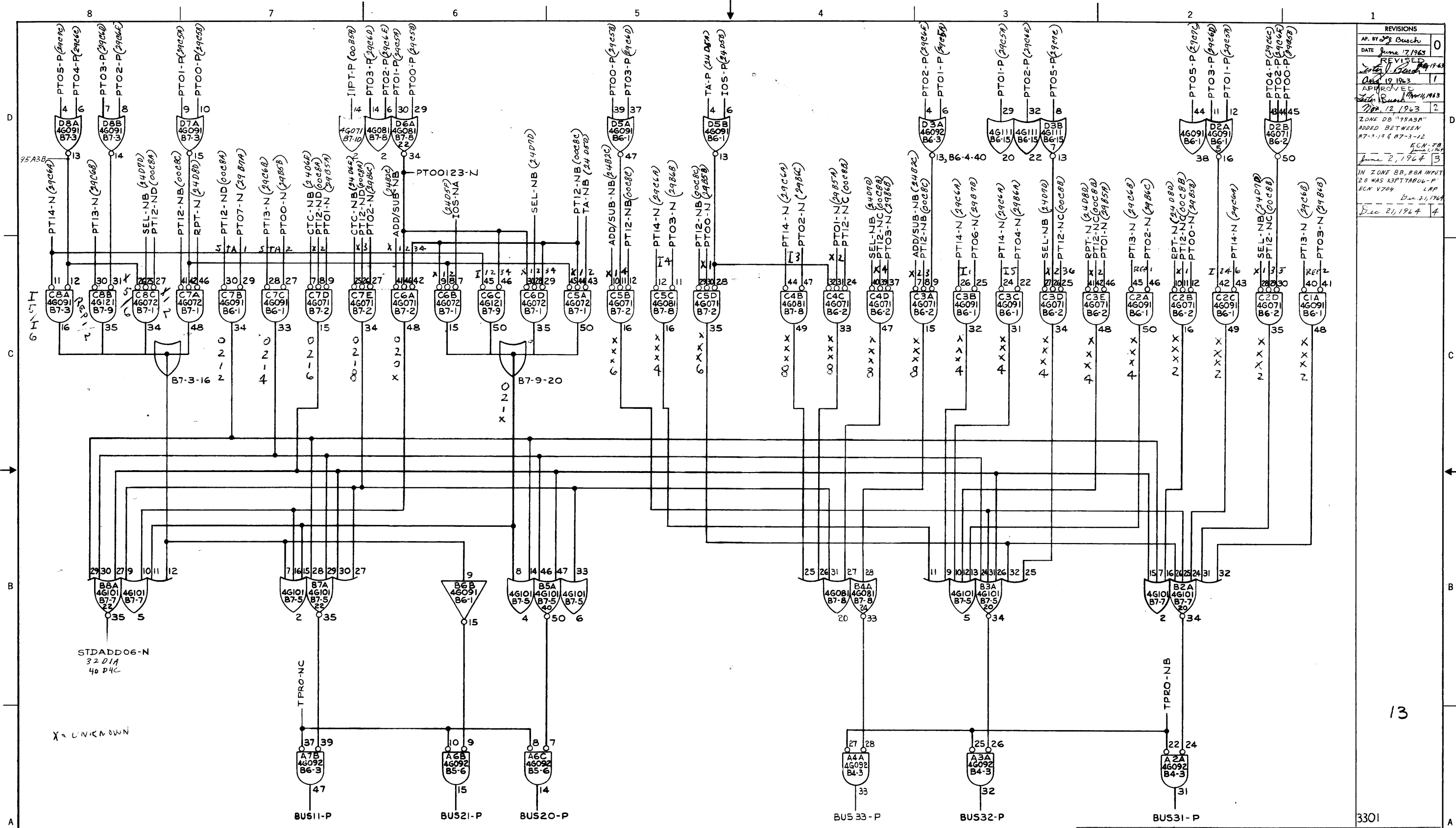
DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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8623523

SIZE: D SHEET / CONTD ON SH

101



REVISIONS	
AP. BY	0
DATE	June 17, 1963
REVISION	1
APPROVED	1
DATE	Nov. 12, 1963
APPROVED	2
DATE	June 2, 1964
APPROVED	3
DATE	Dec 21, 1964
APPROVED	4

ZONE DB "553B"
ADDED BETWEEN
R7-3-19 & R7-3-12

ECN-78
IN ZONE BB, BBA INPUT
28 WAS KEPT TABULAR-P.
ECN V704 LRP
Dec 21, 1964

13

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		DETAILS	
BASIC DIMENSIONS	2 PLACE DECIMALS	PLACE DECIMALS	1/8
UP TO 6	± .02	± .005	PF
ABOVE 6 TO 24	± .03	± .010	1/4
ABOVE 24	± .06	± .015	FRL
ANGULAR DIMENSIONS	± 1/2 DEG		JF
SEE PURCH. SPEC. FOR STOCK TOLERANCE			VF

8645908

DETAILED LOGIC DIAGRAM
STANDARD ADDRESS GENERATOR

FIRST-MADE FOR TAI 26922 USED ON 8541346

DRAWN BY *W. W. ...* CHECKED BY *...* DATE *...*

DESIGNED BY *...* DATE *...*

RADIO CORPORATION OF AMERICA

COMMODITY CODE

SIZE **D** **8645908**

CODE IDENT NO. 49571

SHEET CONT'D ON SH

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

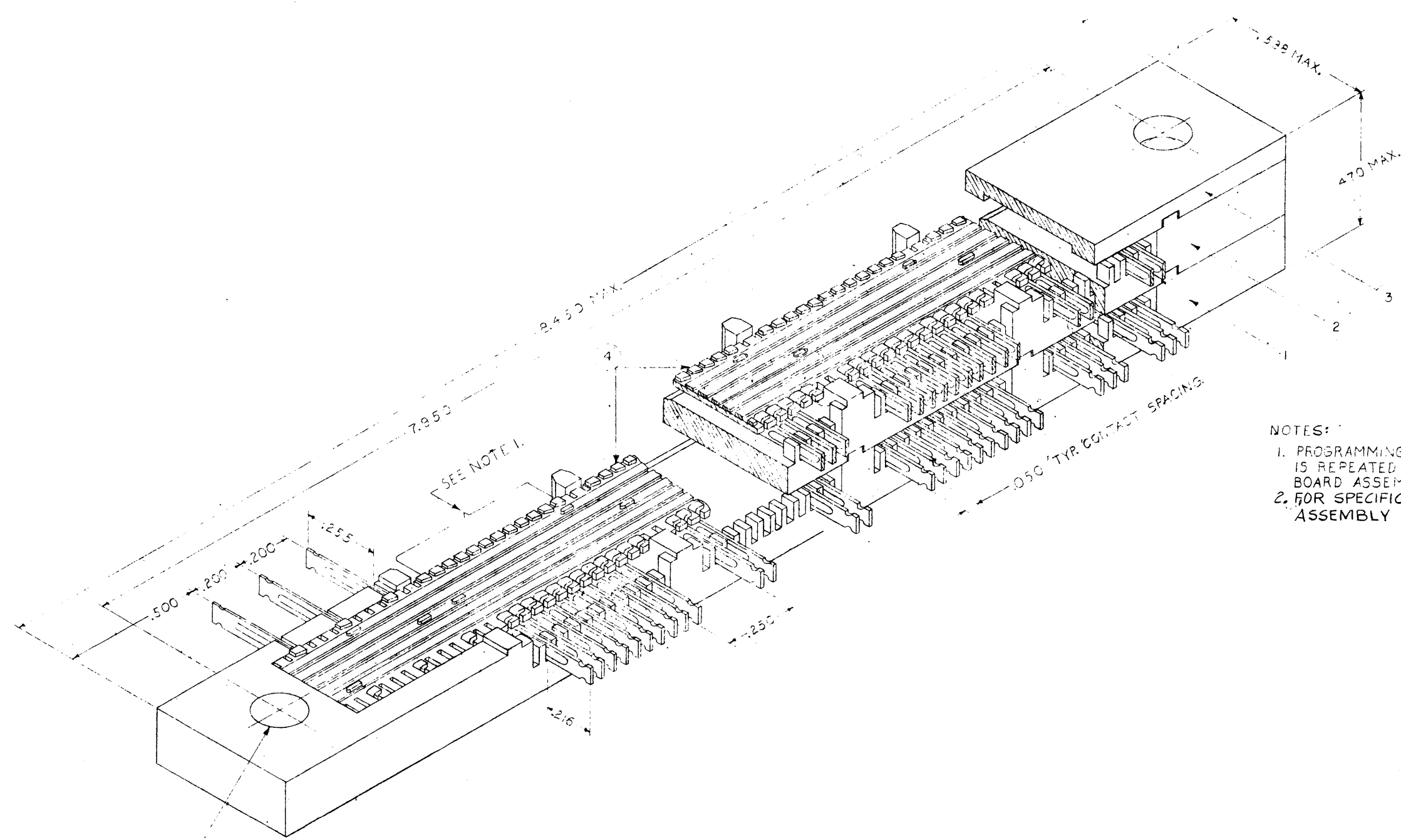
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8645908

3301

USED ON

REVISIONS	
AP BY <i>[Signature]</i>	0
AR MFC 18/11/63	
NOTE 2 ADDED AND APPROVED	
<i>[Signature]</i>	1



NOTES:
 1. PROGRAMMING WITHIN THIS 12 CONTACT AREA IS REPEATED 10 TIMES OVER LENGTH OF RIB BOARD ASSEMBLY.
 2. FOR SPECIFICATION OF DIODE MATRIX ASSEMBLY SEE RCA 8532791

104

3301
[Signature]
RCA DWG 8626286
 PART OF 8629811
 LIST OF RELATED DWGS. M136827
 RCA ISSUE DATE 1-27-63

THIS DRAWING CURRENT AS OF THIS DATE 1-27-63

QTY	SIZE	NUMBER	NAME	REMARKS	ITEM NO.
2		85553-1	ASSEMBLY RIB BOARD	GLASS EPOXY BOARD PHOS. BRT. BOARD PLATED CONTACTS	4
1		85552-1	RIB BOARD HOUSING-TOP	LEXAN-BLUE	3
1		85551-1	RIB BOARD HOUSING-CENTER		2
1		85550-1	RIB BOARD HOUSING-BOTTOM		1

UNLESS OTHERWISE SPECIFIED	REMOVE BURRS, BREAK SHARP EDGES	1/8" MAX
FRAC. ONE	1/32	DECIMALS
ANGLE	0° 30'	000 ± 2 0005
DR. DATE	1-27-63	
CHK		
APP		
REL		
SCALE		
NAME		
LOC		
REV		
NTS		

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DIMENSIONS IN INCHES, DO NOT SCALE PRINT

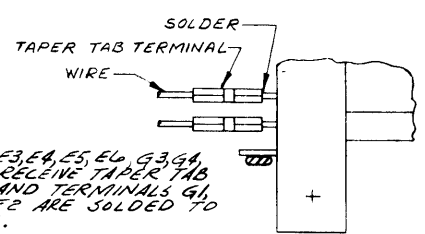
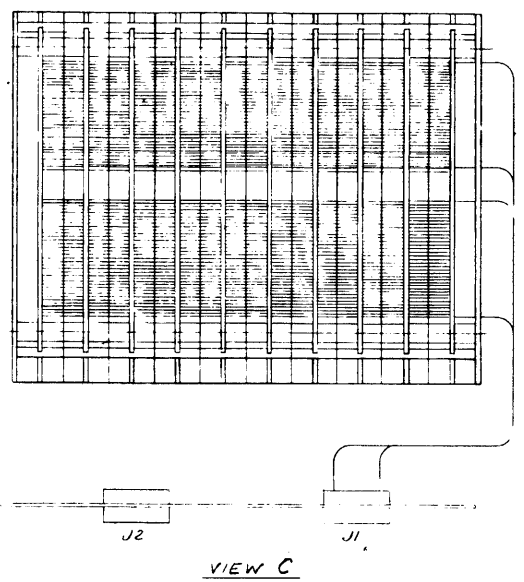
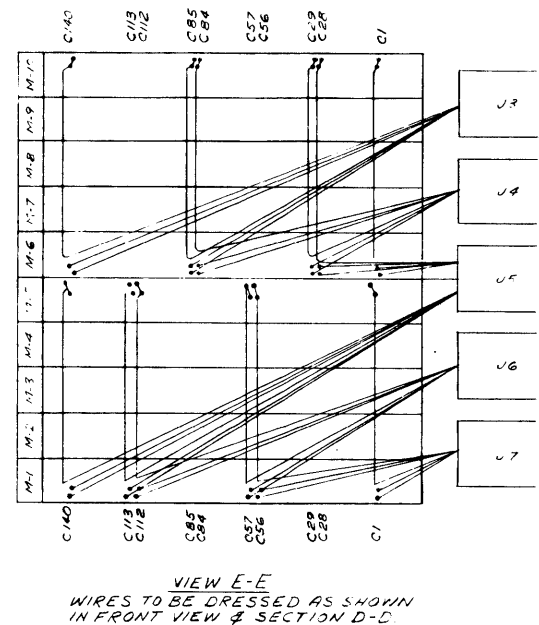
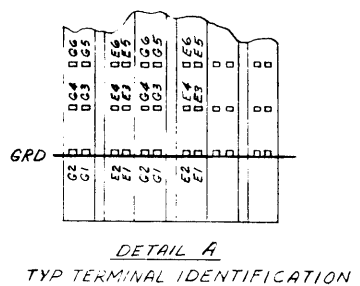
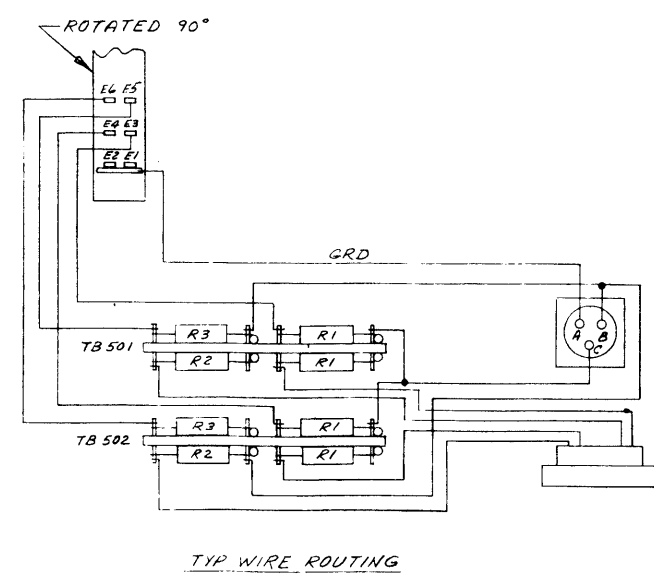
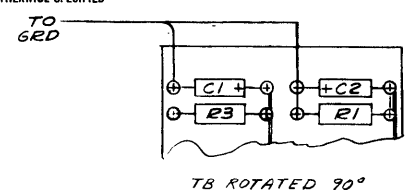
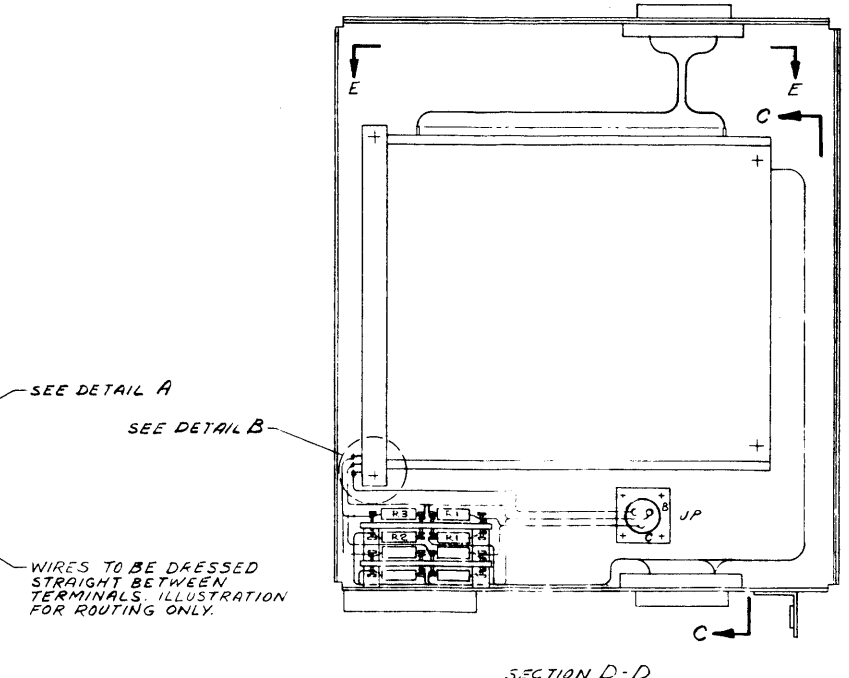
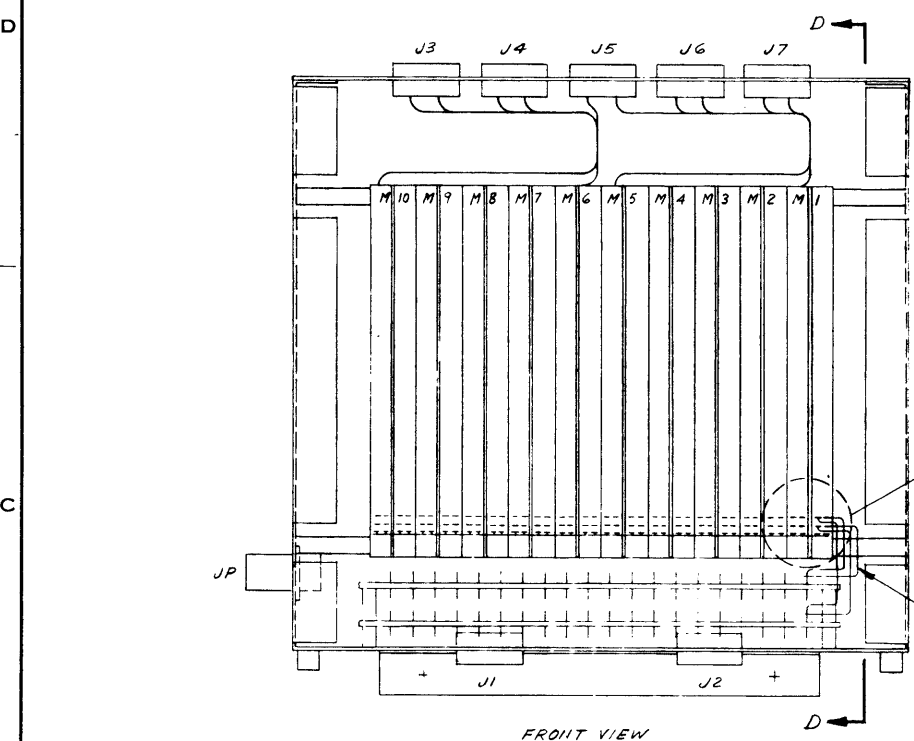
39

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

8626286

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED

REVISIONS	
AP. BY	DATE
REVISED	0
REVISED	1
REVISED AND APPROVED	2



TERMINALS E3, E4, E5, E6, G3, G4, G5 AND G6 RECEIVE TAPER TAB TERMINALS AND TERMINALS G1, G2, E1 AND E2 ARE SOLDERED TO GND BUSS.

WIRING SCHEDULE DWG
WORKMANSHIP STD 1510522

105

3301

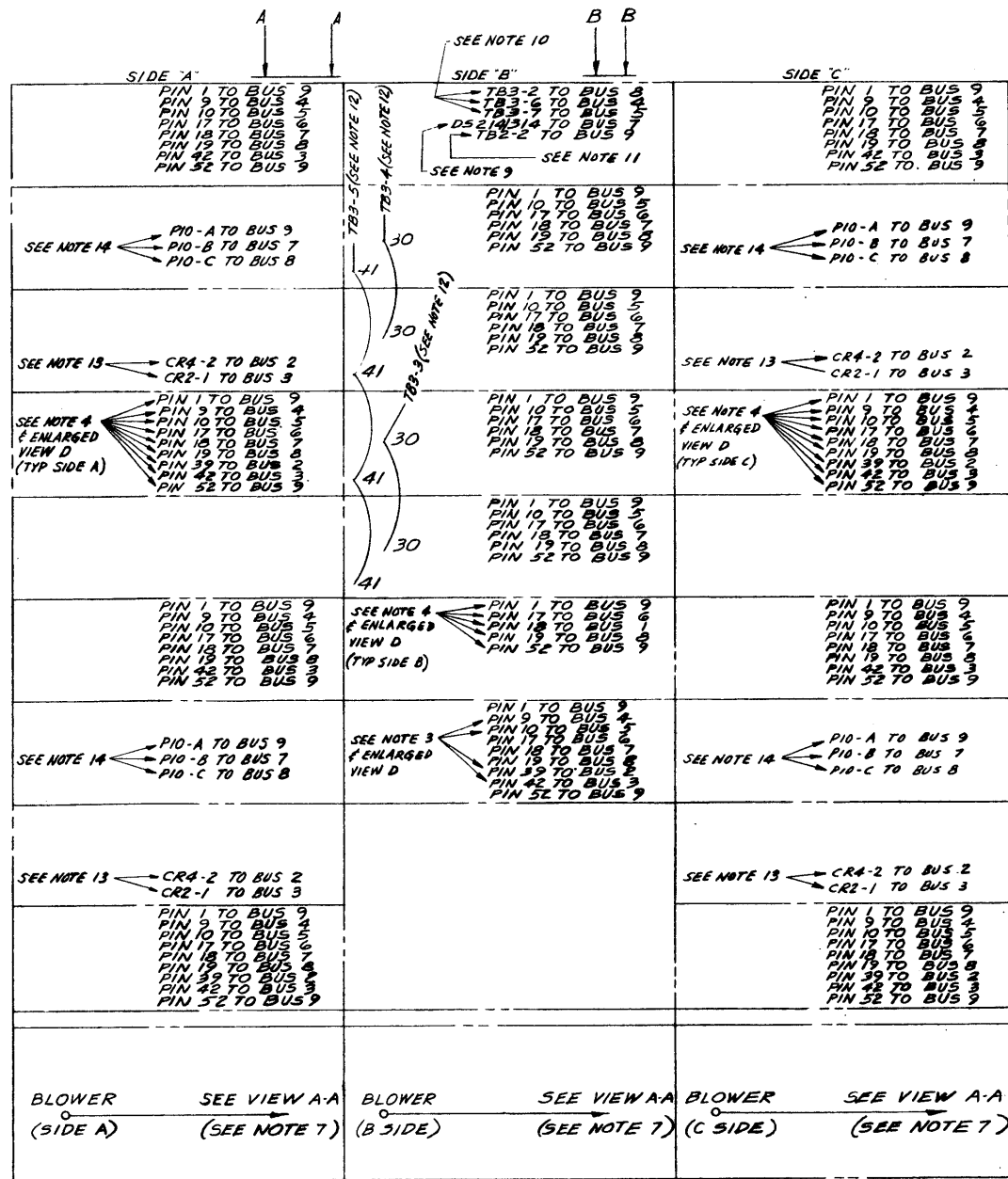
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8626288

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			WIRE ROUTING MEMORY CORE UNIT	
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	FIRST MADE FOR M1 35827	USED
UP TO 4	± .02	± .005	DRAWN BY [Signature]	CHECKED BY [Signature]
ABOVE 4 TO 24	± .01	± .010	DESIGNED BY [Signature]	COMMODITY CODE
ABOVE 24	± .06	± .015	RADIO CORPORATION OF AMERICA CAMDEN, N.J.	D 8626288
ANGULAR DIMENSIONS ± 1/4°			CODE IDENT NO. 49471	SIZE
SEE PURCH SPEC FOR STOCK TOLERANCE				

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED

REVISIONS
AP. BY: [Signature]
DATE: 11/5/63



- BUS 1 +13 MC
- BUS 2 -50
- BUS 3 +50
- BUS 4 +26
- BUS 5 -26
- BUS 6 -5
- BUS 7 +13F
- BUS 8 -15
- BUS 9 GND

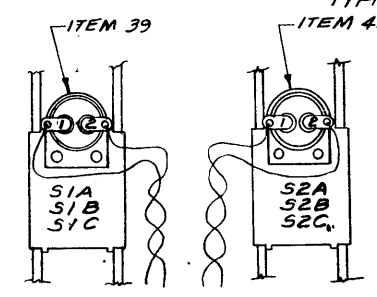
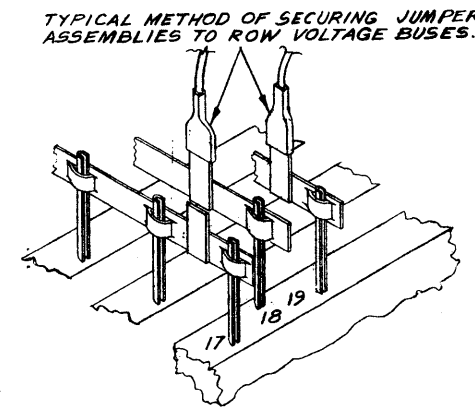
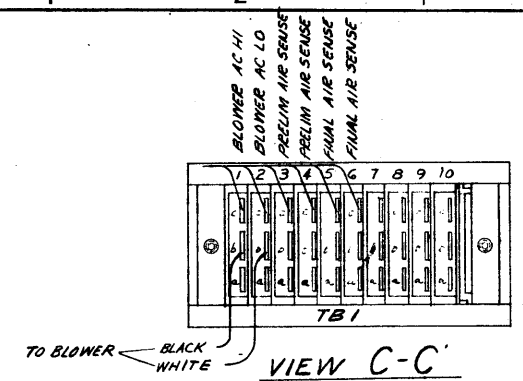
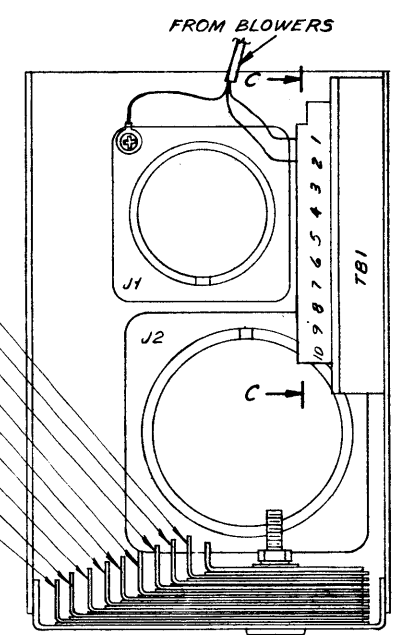


TABLE I (WIRING SAME ON SIDES A, B, C)

WIRE TYPE	TERM	FROM	TERM	TO
TJ	S	S1-1	DR	TBI-3c
TK	S	S1-2	DR	TBI-4c
TJ	S	S2-1	DR	TBI-5c
TK	S	S2-2	DR	TBI-6c

- NOTES
- FOR LIST OF PARTS SEE DWG 8541829-501 THRU 507 INCL.
 - CONNECTIONS SHOWN FOR ROWS 1, 4 & 9 ON SIDE A & ROWS 6 & 9 ON SIDE C ARE TO BE MADE ONLY ON GROUPS WHERE APPLICABLE.
 - CONNECTIONS BETWEEN SIDE B ROW 7 AND -50, +50, +26 & -26 (BUSES 2, 3, 4 & 5 RESP) ARE TO BE MADE USING JUMPER ASSY ITEM 53. SEE ENLARGED VIEW D.
 - ALL OTHER CONNECTIONS BETWEEN PANELS ON SIDES A, B & C AND +13MC, -50, +50 & +26 (BUSES 1, 2, 3 & 4 RESP) ARE TO BE MADE USING JUMPER ASSY, ITEM 51. CONNECTIONS BETWEEN PANELS AND -26, -5, +13, -15 & GRD (BUSES 5, 6, 7, 8 & 9 RESP) ARE TO BE MADE USING JUMPER ASSY, ITEM 52. SEE ENLARGED VIEW D.
 - SOLDER ELECTRICAL CONNECTIONS WHEN NECESSARY WITH ITEM 83. ALL WIRING TO BE IN ACCORDANCE WITH RCA MFG SPEC 1510525.
 - CABLE AND LACE, OR TIE WIRES, WHERE NECESSARY USING LACING TAPE, ITEM 84.
 - ROUTE WIRES FROM BLOWERS AS SHOWN. STRIP OUTER COVERING BACK AS SHOWN IN VIEW A-A. CONNECT GRD WIRE (GRN) AS SHOWN USING TERMINAL, ITEM 104, AND FASTENING UNDER MOUNTING SCREWS OF J1. CONNECT BLACK WIRES TO TBI-1 AND WHITE WIRES TO TBI-2 USING ITEM 85.
 - MAKE CONNECTIONS BETWEEN S1 (ITEM 39) AND TBI AND S2 (ITEM 40) USING ITEMS 103 & 85 (SEE TABLE I). SOLDER AT S1 & S2 END USING ITEM 83. ROUTE WIRES BY SHORTEST PATH IN VERTICAL PANDUIT TO PROPER TBI.
 - SNAP WIRES FROM SIDE B DS 214/314 ONTO +13 (BUS 7). DRESS WIRES CLOSE TO FRAME.
 - MAKE CONNECTIONS BETWEEN TB3 AND +26, -26 & -15 (BUSES 4, 5 & 9) USING ITEMS 101, 105, 107 & 108. HEAT SHRINK INSULATION AFTER ASSY.
 - MAKE CONNECTION BETWEEN TB2 AND GRD (BUS 9) USING ITEMS 101, 107 & 108. SOLDER CONNECTION AT TB2 USING ITEM 83. HEAT SHRINK INSULATION AFTER ASSY.
 - WIRES JUMPING PINS 30 OR 41 OF SIDE B ROWS 2 THRU 5 ARE TO BE MADE UP USING ITEMS 101, 107 & 108. HEAT SHRINK INSULATION BEFORE INSTALLING. CONNECTIONS TO TB3 ARE TO BE MADE USING ITEMS 101 & 105. CRAMPING THE WIRE INTO THE TERMINAL OF THE LAST JUMPER IN THE STRING.
 - SNAP WIRES FROM CR4-2 TO -50 (BUS 2) & CR2-1 TO +50 (BUS 3) WHERE APPLICABLE.
 - MAKE CONNECTIONS BETWEEN P10'S (ITEM 79) AND +13, -15 & GRD (BUSES 7, 8 & 9) USING ITEMS 101, 107 & 108 (SEE TABULATION BELOW) SOLDER AT P10 USING ITEM 83. HEAT SHRINK INSULATION AFTER ASSY. MATE P10'S WITH CONNECTOR JP ON STACKS.

FROM	TO
P10-A	BUS 9
P10-B	BUS 7
P10-C	BUS 8

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED

BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 4"	±.01	±.005
ABOVE 4 TO 24"	±.02	±.010
ABOVE 24"	±.04	±.015

ANGULAR DIMENSIONS ±.5°
SEE PURCH SPEC FOR STOCK TOLERANCE

AC & DC WIRING DIAGRAM

FIRST MADE FOR MI 36824 USED ON 8541829

DESIGNED BY: [Signature] CHECKED BY: [Signature]

COMMODITY CODE

RADIO CORPORATION OF AMERICA
CAMDEN, N.J.

CODE IDENT NO. 49671

3301

215 JB

VF

VF

116

FRL

TF

8626282