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	G1	0
	G2	0
	G3	0
	G4	0
	G5	0
	G6	0
	G7	0
	G8	0
	G9	0
	G10	0
	G11	0
	G12	0
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	G24	0
	G25	0
	G26	0
	G27	0
	G28	0
	G29	0
	G30	0
	G31	0
	G32	0
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OPTION INDEX			
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X	STD 2		1B4,APP FIG. 2
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U	STD 2,3		1B4,APP FIG. 3
T	STD 2,3		1B4,APP FIG. 3
S	STD 2	305	1B4,APP FIG. 3
R	STD 2, DA 5	308	1B4,APP FIG. 3
Q	STD 2	308	1B4,APP FIG. 3
P	STD 3	308	1B4,APP FIG. 3
N	STD 3	308	1B4,APP FIG. 3
M	STD 3, DA 6	307	1B4,APP FIG. 4
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K	AVAIL 5		1B4,APP FIG. 5,G1
J	AVAIL 7		1B4,APP FIG. 3
H	AVAIL 8		1B4,APP FIG. 3

DWG NO.	CD	DWG NO.	CD	DWG NO.	CD	DWG NO.	CD
1	1	2A	2A	3AC	SAC		
4D	1D	5B	5B	6M	6M		
7M	7M						
DWG NO. <th>CD</th> <th>DATE</th> <th>DWG NO.</th> <th>CD</th> <th>DATE</th> <th>DWG NO.</th> <th>CD</th>	CD	DATE	DWG NO.	CD	DATE	DWG NO.	CD
8B	8B	04-22-94					
9M	9M	3-17-95					

SUPPORTING INFORMATION	
CATEGORY	NO
EQUIPMENT DESIGN REQUIREMENTS	

SHEET INDEX NOTES

1. ONLY THE LATEST ISSUE, OR ISSUES IF CONCURRENT, ARE SHOWN IN THE INDEX.
2. FOR REISSUES, A CHANGED OR NEW SHEET IS ASSIGNED THE SAME ISSUE NUMBER AS SHEET 1.
3. THE ISSUE NUMBER OF SHEET 1 IS RECOGNIZED AS THE ISSUE NUMBER OF THE WHOLE DRAWING.

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BT13

5ESS[®] SWITCHING EQUIPMENT

RESISTOR PANEL
CIRCUIT

DWG SIZE	ISSUE
C2	9M

AT&T SD-5D044-01 SHEET A1
39 PARTED BY USA

FS 1 RESISTOR PANEL

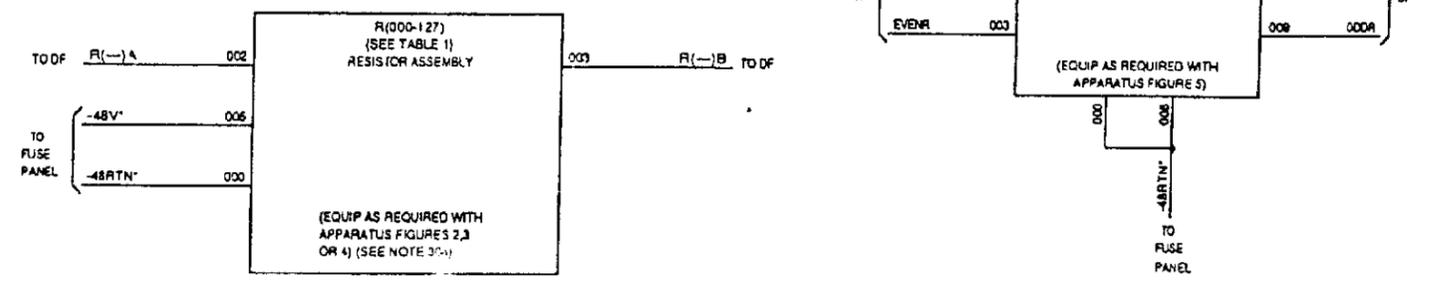


TABLE 1

CONN. TERM. NO.	RESISTOR ASSEMBLY LEAD DESIG R(-)A 3																																CONN. TERM. NO.	
	HORIZONTAL EQUIPMENT LOCATION (H EQ)																																	
	009	013	018	023	028	033	038	043	053	058	063	068	073	078	083	088	098	103	108	113	118	123	128	133	143	148	153	158	163	168	173	178		
024	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	024
023	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	023
022	003B	007B	011B	015B	019B	023B	027B	031B	036B	039B	043B	047B	051B	055B	059B	063B	067B	071B	075B	079B	083B	087B	091B	095B	099B	103B	107B	111B	115B	119B	123B	127B	022	
021	003A	007A	011A	015A	019A	023A	027A	031A	036A	039A	043A	047A	051A	055A	059A	063A	067A	071A	075A	079A	083A	087A	091A	095A	099A	103A	107A	111A	115A	119A	123A	127A	021	
020	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	020
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016	002B	006B	010B	014B	018B	022B	026B	030B	034B	038B	042B	046B	050B	054B	058B	062B	066B	070B	074B	078B	082B	086B	090B	094B	098B	102B	106B	110B	114B	118B	122B	126B	016	
015	002A	006A	010A	014A	018A	022A	026A	030A	034A	038A	042A	046A	050A	054A	058A	062A	066A	070A	074A	078A	082A	086A	090A	094A	098A	102A	106A	110A	114A	118A	122A	126A	015	
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009	001B	005B	009B	013B	017B	021B	025B	029B	033B	037B	041B	045B	049B	053B	057B	061B	065B	069B	073B	077B	081B	085B	089B	093B	097B	101B	105B	109B	113B	117B	121B	125B	009	
008	001A	005A	009A	013A	017A	021A	025A	029A	033A	037A	041A	045A	049A	053A	057A	061A	065A	069A	073A	077A	081A	085A	089A	093A	097A	101A	105A	109A	113A	117A	121A	125A	008	
007	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	007
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004	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	004
003	000B	004B	008B	012B	016B	020B	024B	028B	032B	036B	040B	044B	048B	052B	056B	060B	064B	068B	072B	076B	080B	084B	088B	092B	096B	100B	104B	108B	112B	116B	120B	124B	003	
002	000A	004A	008A	012A	016A	020A	024A	028A	032A	036A	040A	044A	048A	052A	056A	060A	064A	068A	072A	076A	080A	084A	088A	092A	096A	100A	104A	108A	112A	116A	120A	124A	002	
001	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	001
000	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	000
	POWER PLANE -48V3 LUG 02-017-080								POWER PLANE -48V1 LUG 02-062-080								POWER PLANE -48V2 LUG 02-107-080								POWER PLANE -48V3 LUG 02-152-080									
	GRD PLANE -48RTN0 LUG 02-012-083								GRD PLANE -48RTN1 LUG 02-067-080								GRD PLANE -48RTN2 LUG 02-102-080								GRD PLANE -48RTN3 LUG 02-147-080									

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RESISTOR PANEL	
DWG SIZE C2	ISSUE 88
AT&T	SD-50044-01
	SHEET B1

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APP FIG. 1

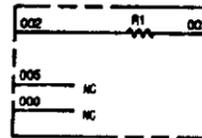
RESISTOR PANEL (UNEQUIPPED)

DESIG	LOC	CODE
	1F4	ED-50048-30, G1

APP FIG. 2

COMPONENT ASSEMBLY
CURRENT LIMITING RESISTOR NETWORK
PRINTED WIRING BOARD

DESIG	LOC	CODE
R(000-127)	1B4	882HK E/W



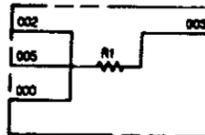
OPT	DESIG	RESISTOR	VALUE	ASSEMBLY
Z	R1	KS-20288 L8C	798	ED-50048-30, G1
Y	R1	KS-20288 L8C	402	ED-50048-30, G8
X	R1	KS-20288 L8C	100	ED-50048-30, G8
W	R1	*	*	ED-50048-30, G8

* OFFICE ENGINEERED
X, Y, Z ARE RATED "DA" PER ISSUE 9M
SEE NOTE 303.

APP FIG. 3

COMPONENT ASSEMBLY
AUXILIARY CURRENT LIMITING RESISTOR NETWORK
PRINTED WIRING BOARD

DESIG	LOC	CODE
R(000-127)	1B4	882HJ E/W



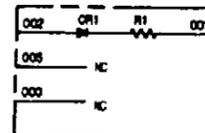
OPT	DESIG	RESISTOR	VALUE	ASSEMBLY
V	R1	KS-20288 L8C	798	ED-50084-30, G1
U	R1	KS-20288 L8C	402	ED-50084-30, G2
T	R1	KS-20288 L8C	100	ED-50084-30, G2
S	R1	KS-20288 L8C	3110	ED-50084-30, G4
R	R1	KS-20288 L8C	8490	ED-50084-30, G8
Q	R1	KS-20288 L8C	1100	ED-50084-30, G8
P	R1	KS-20288 L8C	10	ED-50084-30, G7
N	R1	*	*	ED-50084-30, G8
L	R1	KS-20288 L8C	3160	ED-50084-30, G8
J	R1	KS-20288 L8C	4320	ED-50084-30, G10
H	R1	KS-20288 L8C	3850	ED-50084-30, G11

* OFFICE ENGINEERED

(DA) APP FIG. 4

COMPONENT ASSEMBLY
MTB TERMINATION NETWORK
PRINTED WIRING BOARD

DESIG	LOC	CODE
R(000-127)	1B4	882HL E/W



OPT	DESIG	RESISTOR	VALUE	DIODE	ASSEMBLY
M	R1	KS-20288 L8C	402		ED-50197-30, G1
N	CR1			533K	ED-50197-30, G1

APP FIG. 5

CIRCUIT PACK
GROUND REFERENCE CIRCUIT

DESIG	LOC	CODE
R(000-128)	1B8	KC382

(EVEN ONLY)

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RESISTOR PANEL	DWG SIZE	ISSUE
	C2	9M
AT&T	SD-50044-01	SHEET C1

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0 1 2 3 4 5 6 7 8 9

A
B
C
D
E
F
G
H

A
B
C
D
E
F
G
H

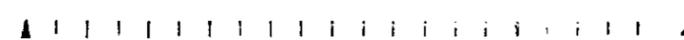
CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
<u>BATTERY SYMBOL</u>		<u>VOLTAGE RANGE</u>	

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RESISTOR PANEL		
DWG SIZE	ISSUE	
C2	8B	
AT&T	SD-50044-01	SHEET 01

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INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS, AND VALUES PRECEDED BY THE SYMBOL + (PLUS) OR - (MINUS) ARE IN VOLTS.

FEATURE OR OPTION	PROVIDE		
	APP FIG	APP OR WIR	QUANTITY
CURRENT LIMITING RESISTOR NETWORK (982 HK)	2	Z	
	2	Y	
	2	X	
	2	W	
AUXILIARY CURRENT LIMITING NETWORK (982 HL)		V	
		U	
		T	
	CURRENT LIMITING RESISTANCE	3	
	USED WITH RSM	3	4 PER SMA12 CIRCUIT PACK
	USED FOR BOARD TO BOARD TEST	3	L J G
	USED FOR RSM ALARM STATUS PANEL	3	P
OFFICE ENGINEERED	3	H	
PAIR QAM TEST CONTROLLER (PGTC)	3	H	
(982 HL) MTB TERMINATION NETWORK	4	M	
(KC882) GROUND REFERENCE CIRCUIT	5	K	1 PER 30 LINE

(DA)

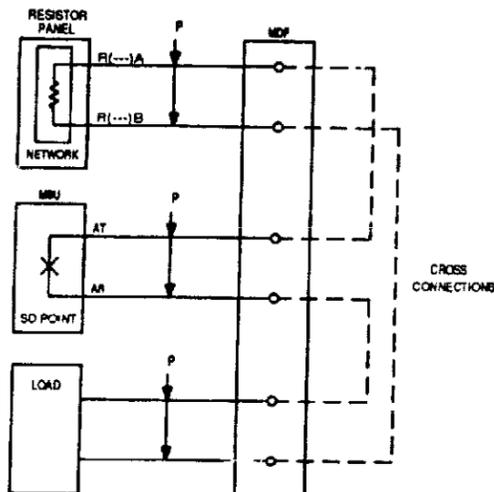
INFORMATION NOTES (CONT):

RECORD OF FIGURES, WIRING AND APPARATUS CHANGES						
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT		
				STD	AMM	MD
2A	B	VORU OR T	305	B		
2A	ROR D	VORU OR T	308	ROR D		
3AC	N	VORU OR T	307	N		
3AC	P	VORU OR T	308	P		
3AC	WORN	VORU OR T	309	WORN		
				AVAIL	DA	
5B	LK	NONE		LK	R	
8M		APP FIG 4, M			APP FIG 4, M	
7M	J	L		J	L	
8B	H	NONE		H		
8M	X,Y,Z	NONE	308	W	X,Y,Z	

INFORMATION NOTES (CONT):

304. A RESISTOR NETWORK OR COMBINATION OF RESISTOR NETWORKS CROSS CONNECTED AT THE MDF SHALL LIMIT THE CURRENT FLOW THROUGH ITS ASSOCIATED SD POINT CLOSURE TO A MAXIMUM OF 50MA. THE RESISTOR NETWORK SHALL FURNISH BATTERY (-48 VOLTS) AND GROUND (-48RTN) WHEN REQUIRED IN ADDITION TO THE CURRENT LIMITING RESISTOR. THE -48 SELECTED SHOULD BE FROM THE SAME POWER BUS (0 OR 1) AS THE MSUMMSU POINT SELECTED WHERE PRACTICAL. WHEN SELECTING THE RESISTOR NETWORK THERE IS A 50 OHM RESISTOR ON THE SIGNAL DISTRIBUTE PACK WHICH IS IN SERIES WITH THE SD POINT CONTACT AND MUST BE TAKEN INTO CONSIDERATION.

305. THE RESISTOR PANEL WILL BE CONNECTED TO THE MDF BY 128 Pairs, ONE FOR EACH RESISTOR NETWORK, WHEN IT IS INSTALLED IN A NO SESS OFFICE. CONNECTION TO OTHER UNITS WILL BE ACCOMPLISHED BY CROSS CONNECTIONS AT THE MDF. A TYPICAL CONNECTION BETWEEN A RESISTOR NETWORK ON THE RESISTOR PANEL, AND SD POINT IN THE MSU, AND AN EXTERNAL LOAD IS SHOWN BELOW:



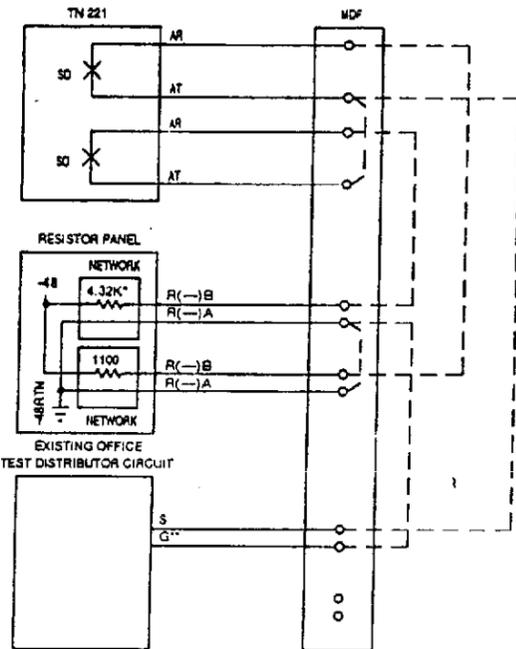
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RESISTOR PANEL		DWG SIZE	ISSUE
		C2	9M
AT&T	SD-5D044-01	SHEET D2	

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INFORMATION NOTES (CONT):

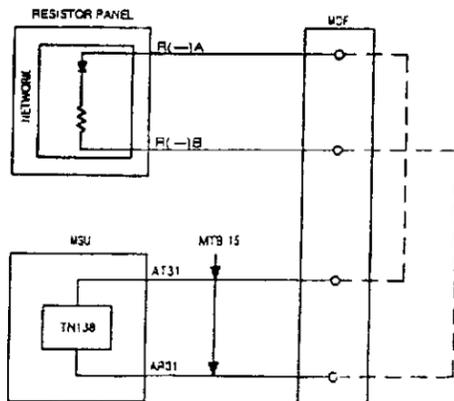
306. BOARD TO BOARD TESTING REQUIRES THAT THE SD POINTS AND RESISTOR NETWORKS BE CONNECTED TO THE TEST DISTRIBUTOR CIRCUIT, IN THE EXISTING OFFICE, AS SHOWN BELOW BY THE CROSS CONNECTIONS ON THE MDF.



* RESISTOR VALUES GIVEN ARE FOR CO-LOCATED OFFICES. REFER TO 505-105-200 FOR ADJUSTMENT PROCEDURES.

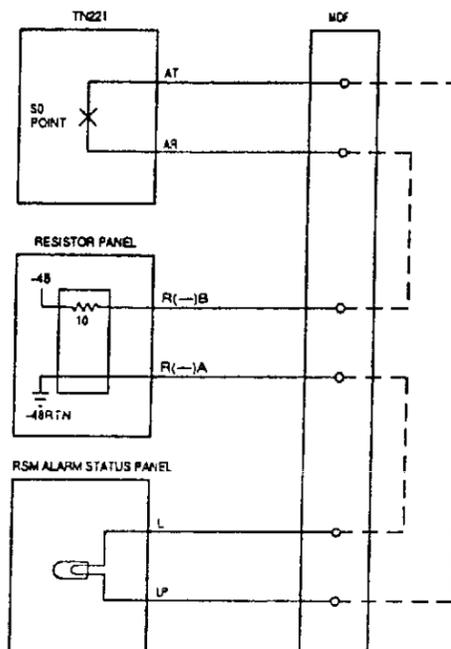
** IF GROUNDED INTERNALLY, DO NOT CONNECT THROUGH MDF.

(DA) 307. THE DIODE RESISTOR NETWORK PROVIDES A TERMINATION WHICH MUST BE USED TO TEST THE PROTOCOL CIRCUIT. ONE MUST BE PROVIDED FOR EVERY METALLIC ACCESS PACK ON MTB 15.



INFORMATION NOTES (CONT):

308. A RESISTOR NETWORK TO FURNISH BATTERY (-48) AND GROUND (-48RTN) FOR THE RSM ALARM STATUS PANEL.

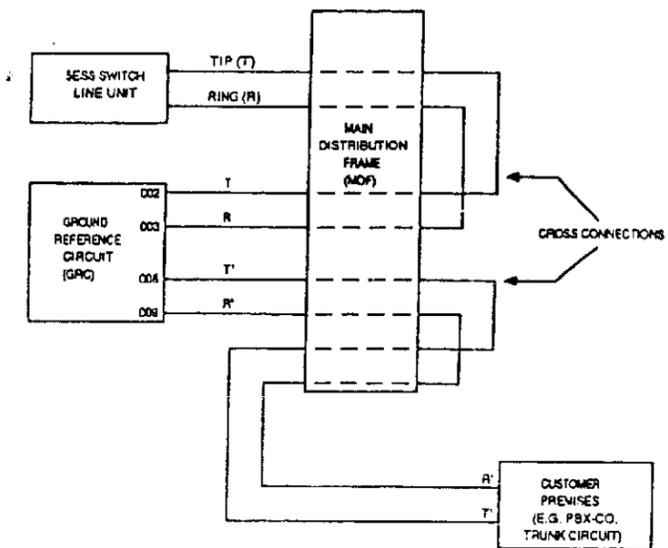


309. WHEN OFFICE ENGINEERING A CURRENT LIMITING OR AUXILIARY CURRENT LIMITING NETWORK ED-50065-30, G4 OPTION W OR ED-50064-30, G8 OPTION N THE RESISTANCE VALUE WILL BE DETERMINED BY THE TEST BEING PERFORMED AND LOCAL OFFICE REQUIREMENTS. RESISTORS ARE TO BE OBTAINED FROM LOCAL SUPPLIER. AT&T RECOMMENDS A 3 WATT 1% RESISTOR. THE CIRCUIT SHOULD LIMIT THE CURRENT TO 50MA MAXIMUM.

INFORMATION NOTES (CONT):

310. THE GROUND REFERENCE CIRCUIT BLOCK DIAGRAM.

A 942KC CONNECTOR ASSEMBLY SHOULD BE PROVIDED FOR EACH DIRECTLY INWARD DIALED (DID) LINE THAT ENTERS THE SSSTM SWITCH FROM AN INCOMPATIBLE PBX. IT CAN BE ORDERED PER J5D005AA-1, L3.



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RESISTOR PANEL

DWG SIZE
C2

ISSUE
8B

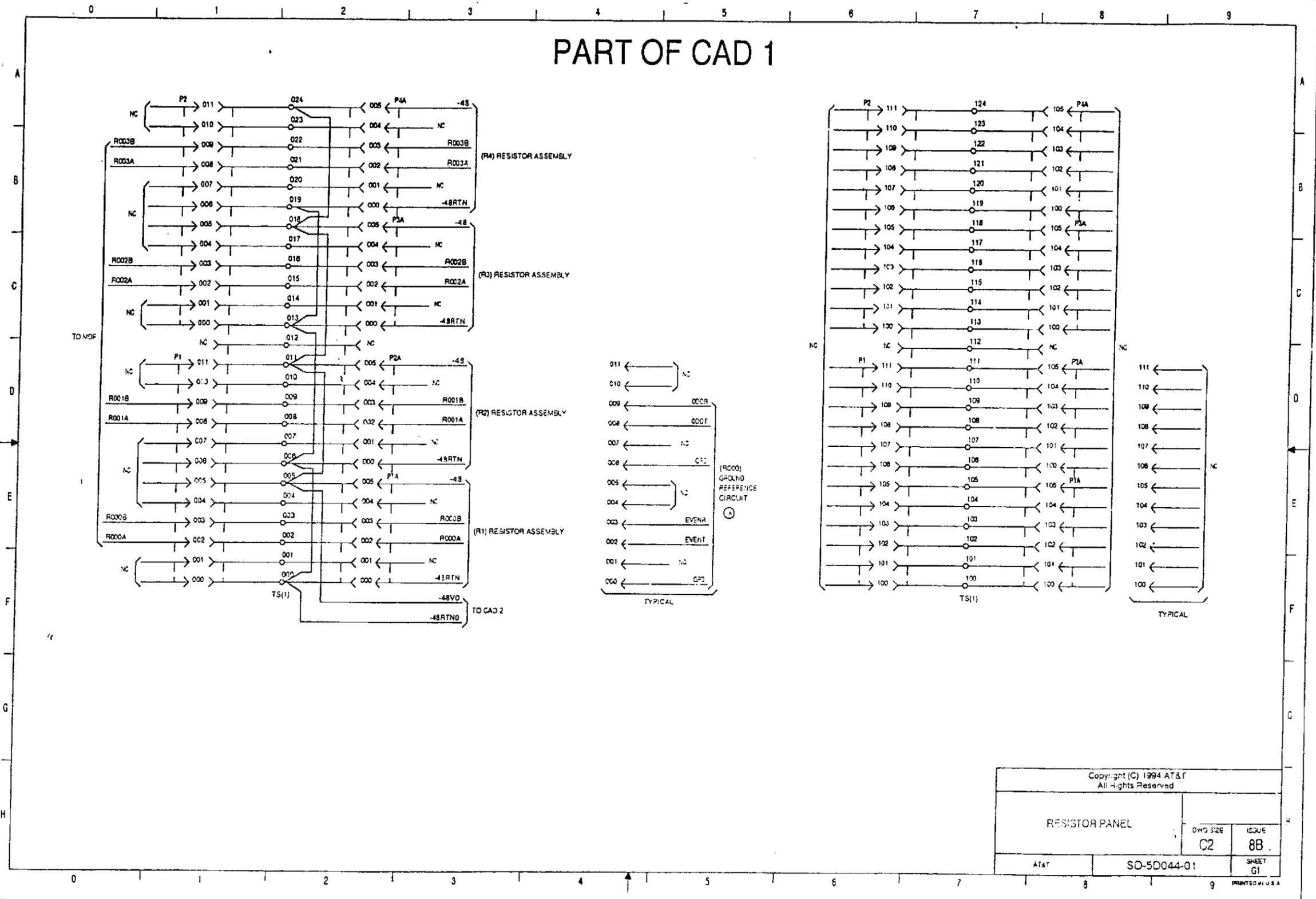
AT&T

SD-50044-01

SHEET
D3

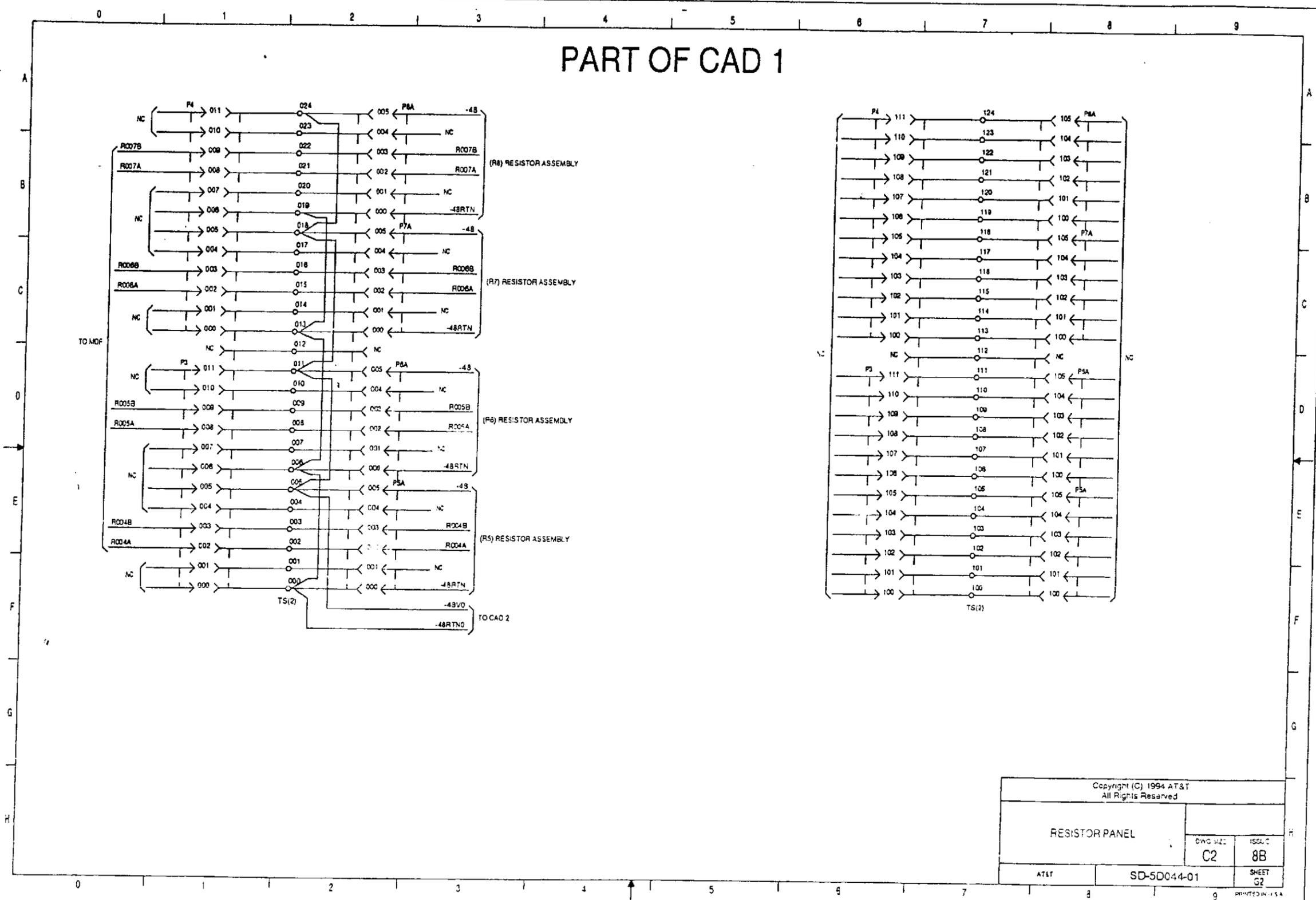
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PART OF CAD 1



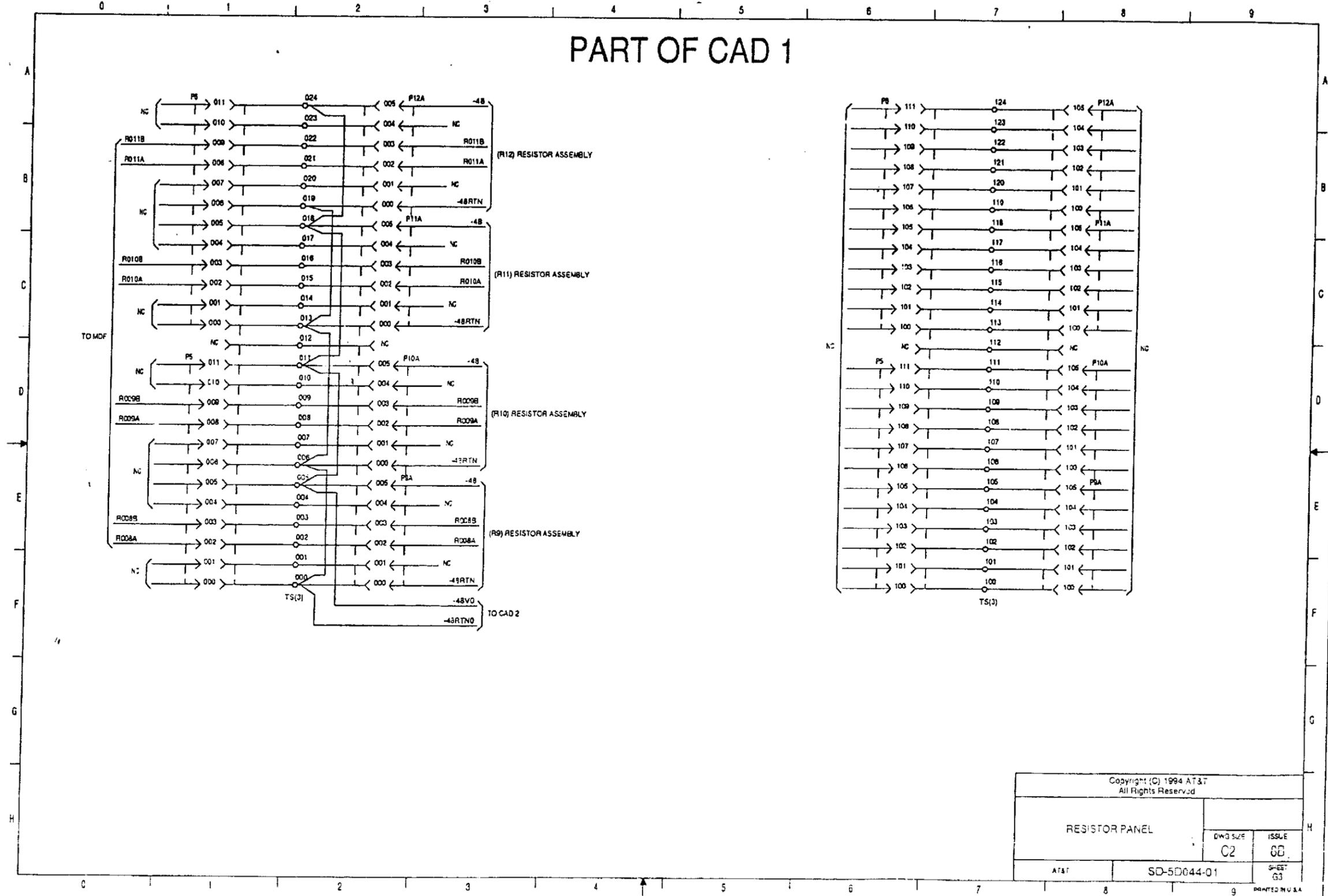
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		ISSUE 88
AT&T	SO-5D044-01	SHEET G1
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PART OF CAD 1

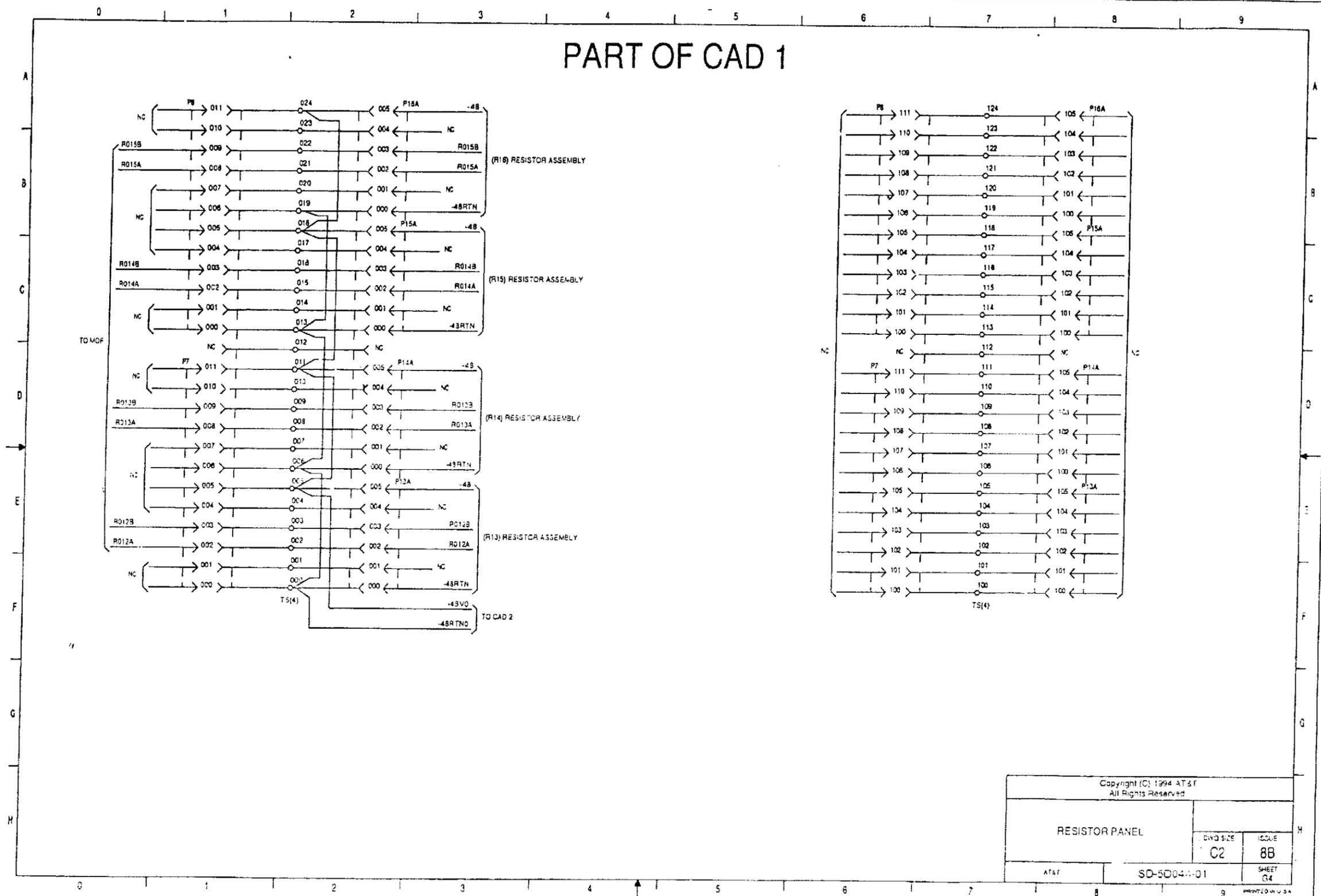


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AT&T	SD-50044-01	SHEET 32
		PRINTED IN USA

PART OF CAD 1

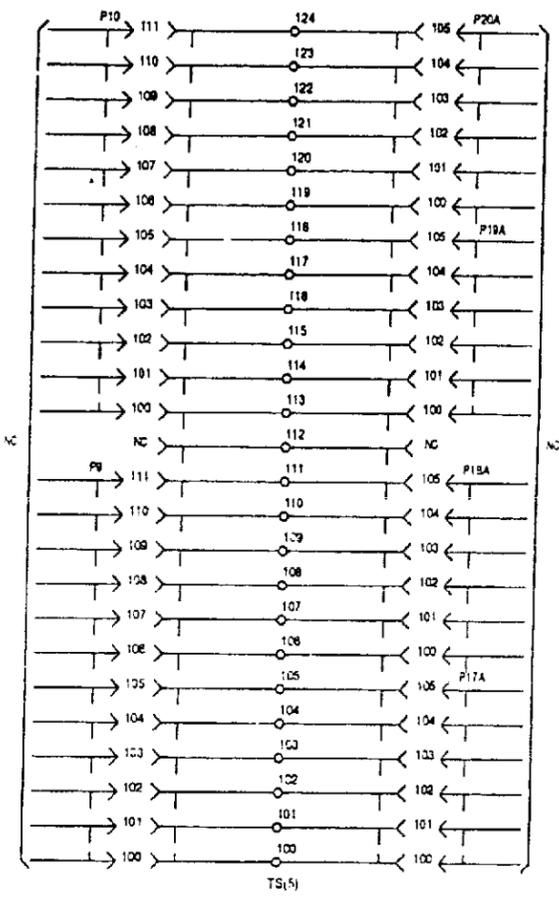
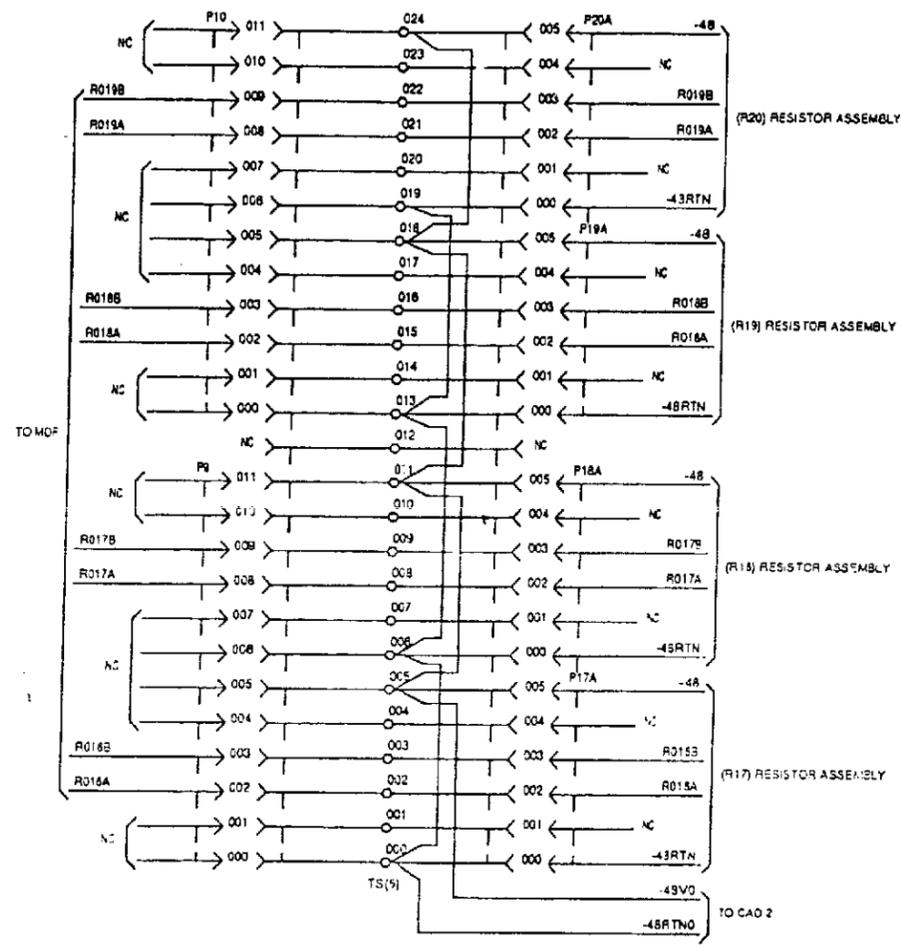


PART OF CAD 1



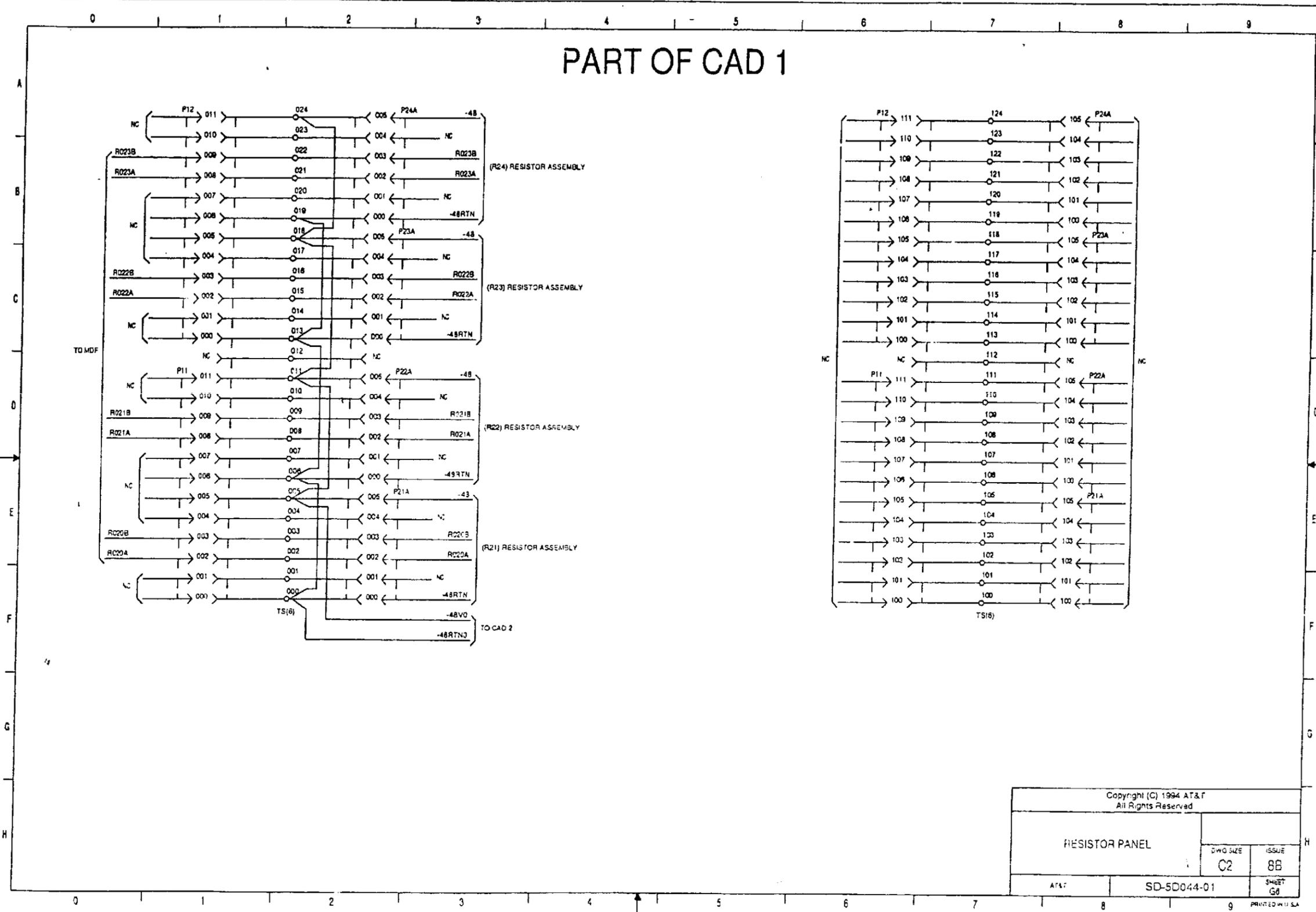
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AT&T	SD-SD04-01	SHEET G4
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PART OF CAD 1



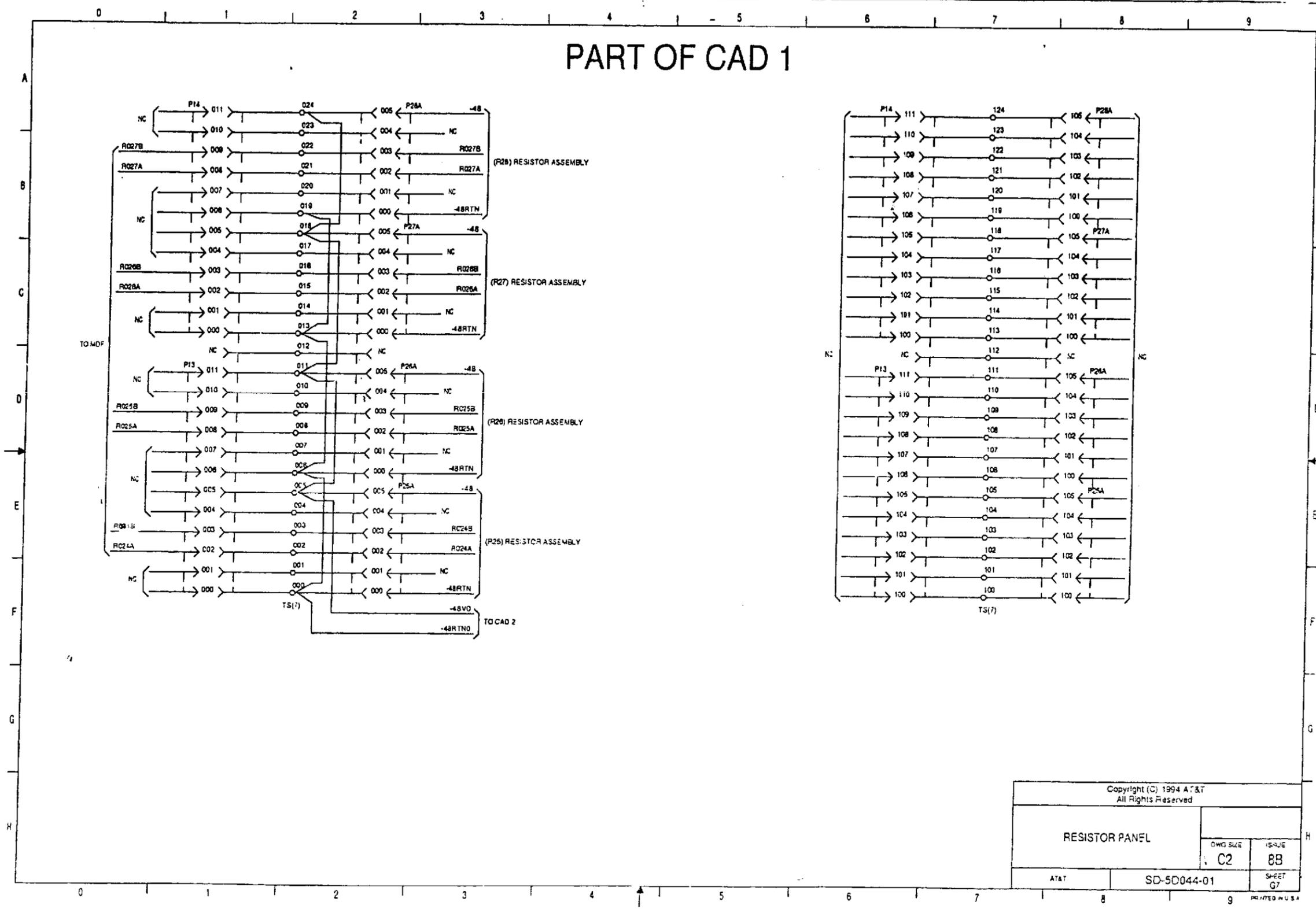
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DWG SIZE C2	SHEET G3	
AT&T	SD-5D044-01	

PART OF CAD 1



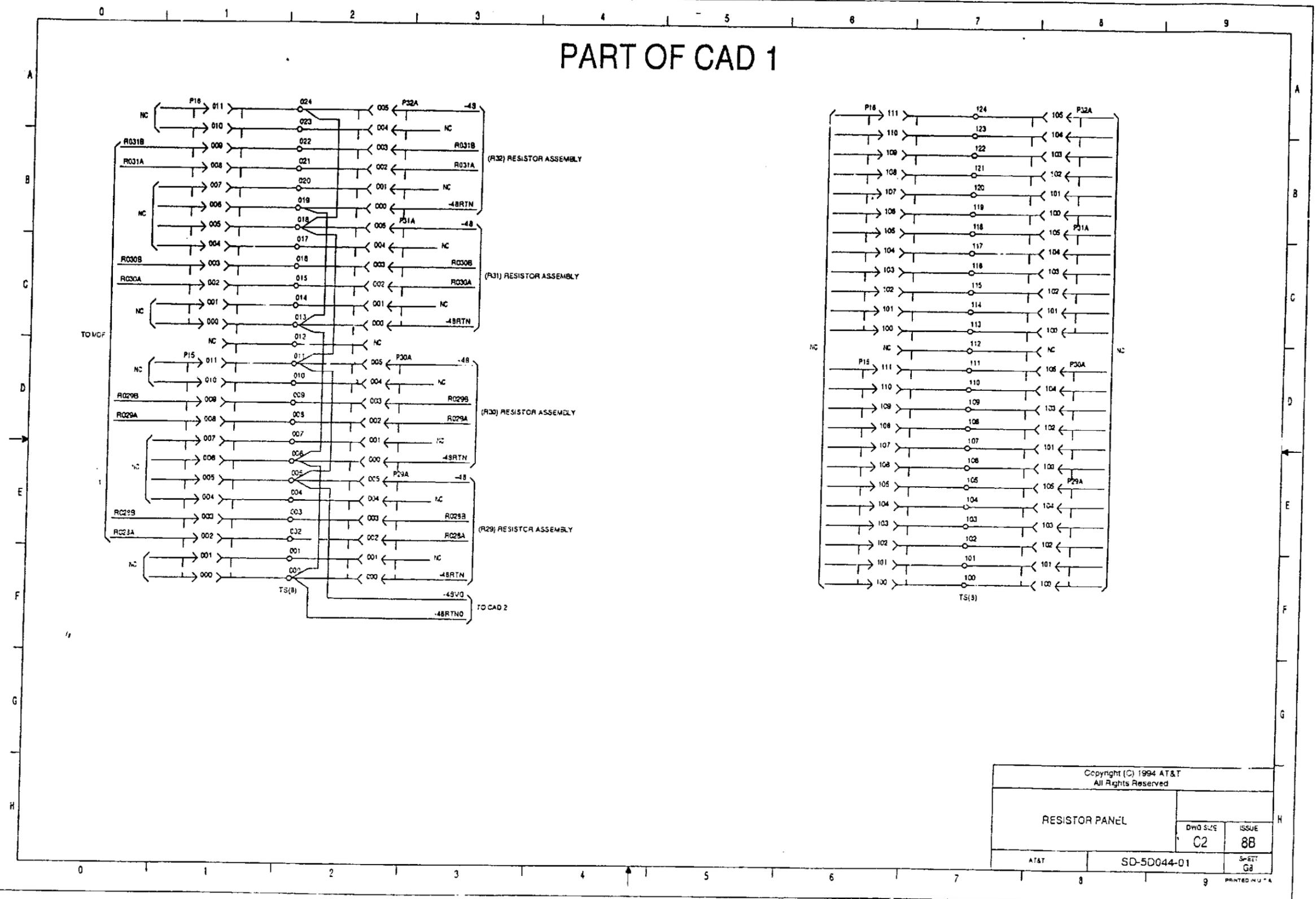
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AT&T	SD-5D044-01	SHEET Gd
PRINTED IN U.S.A.		

PART OF CAD 1



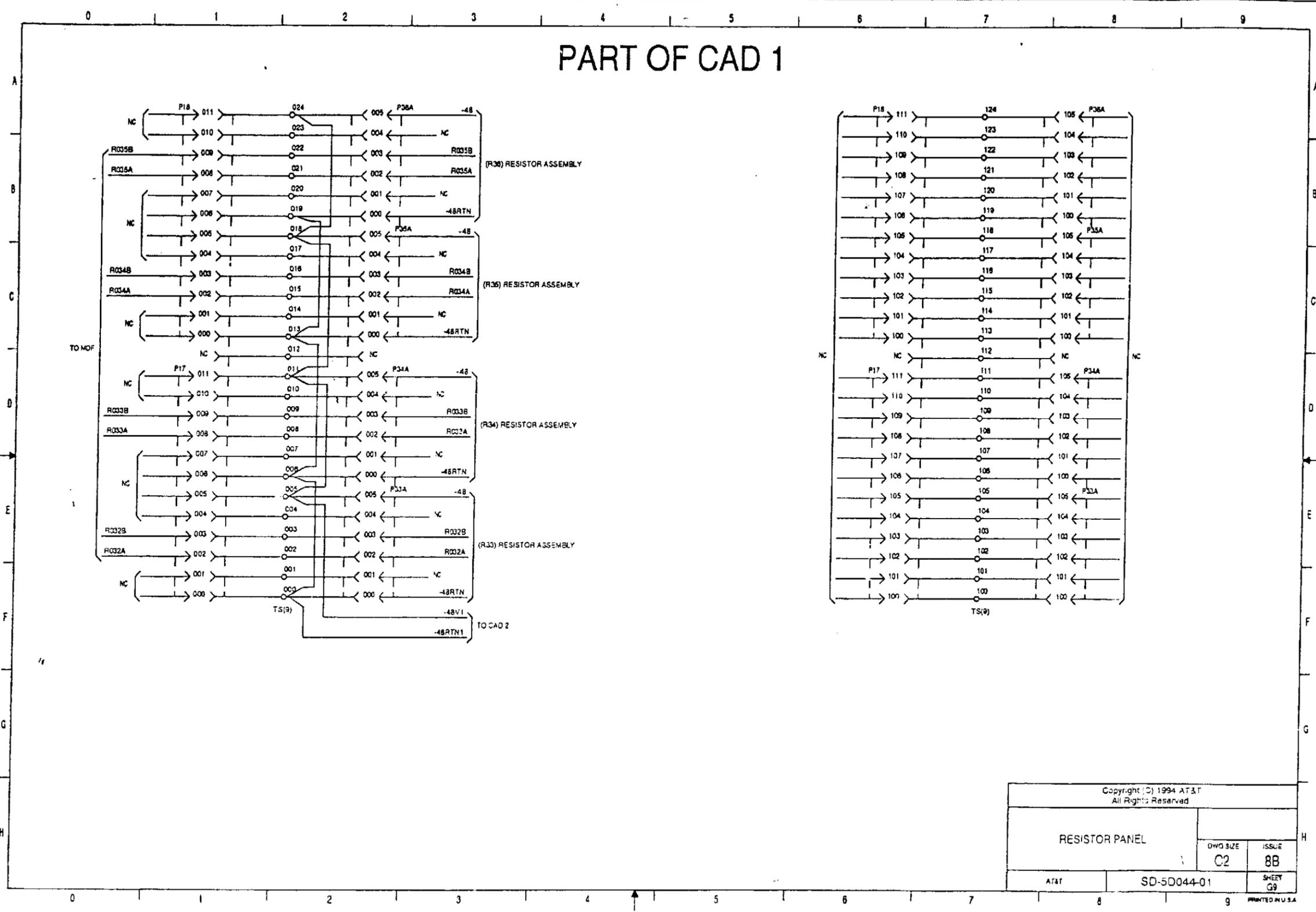
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		ISSUE 88
AT&T	SD-5D044-01	SHEET G7
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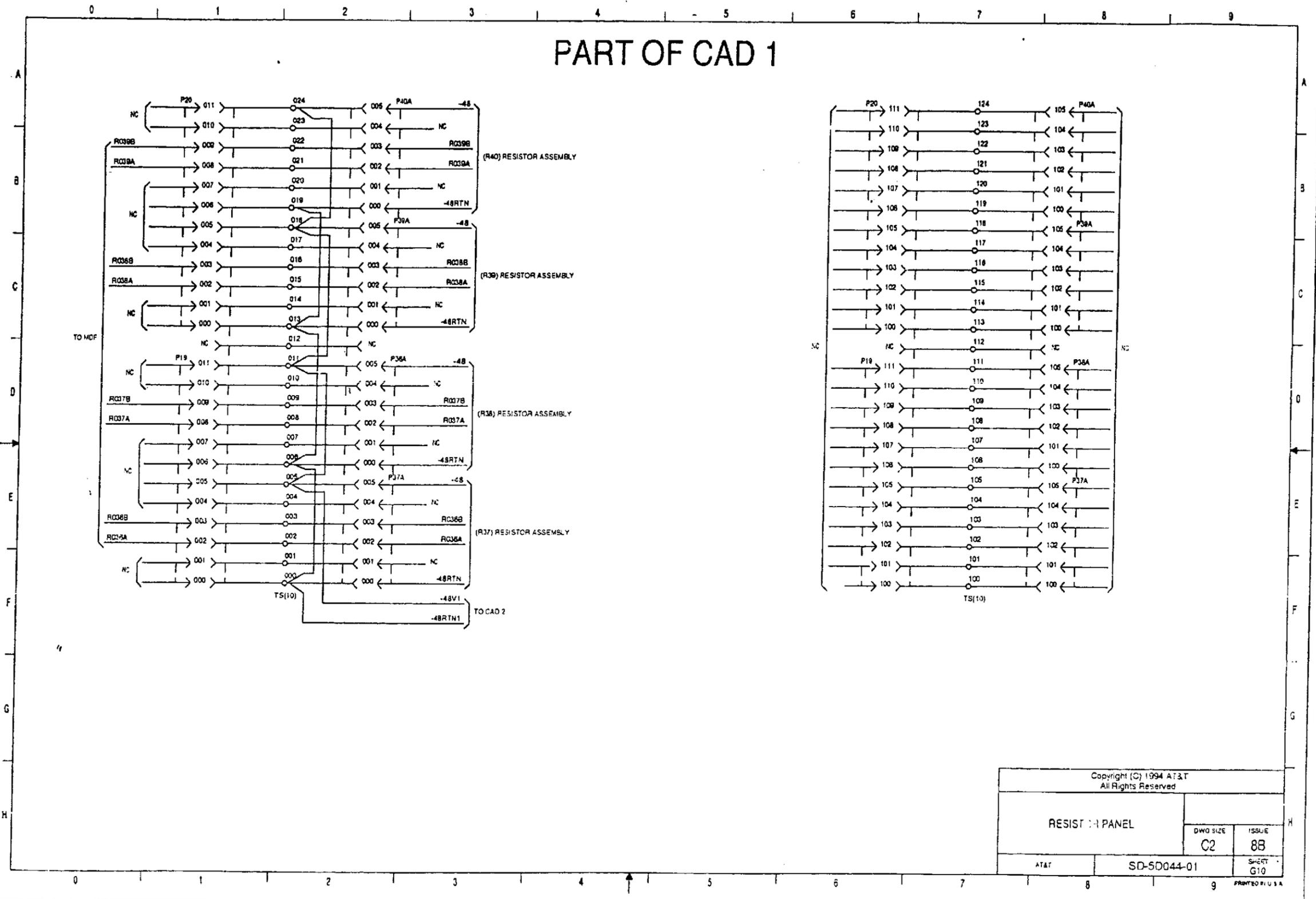
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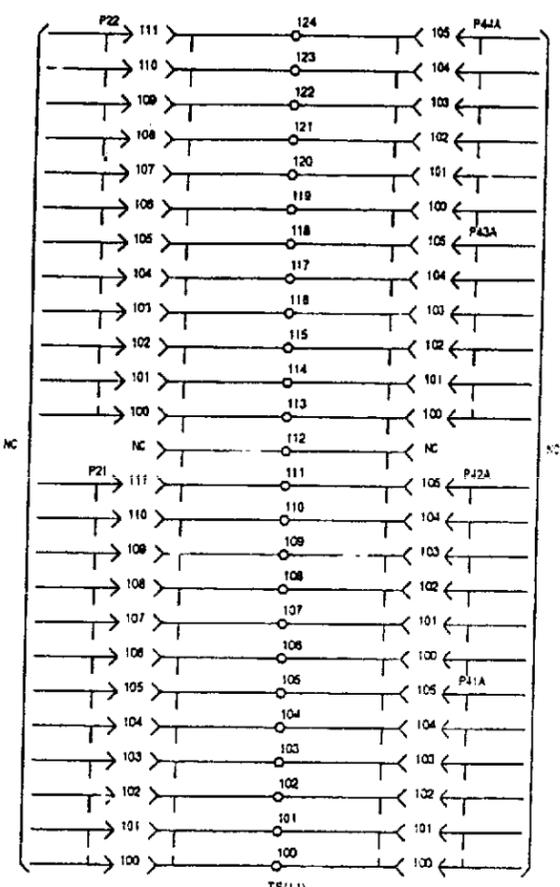
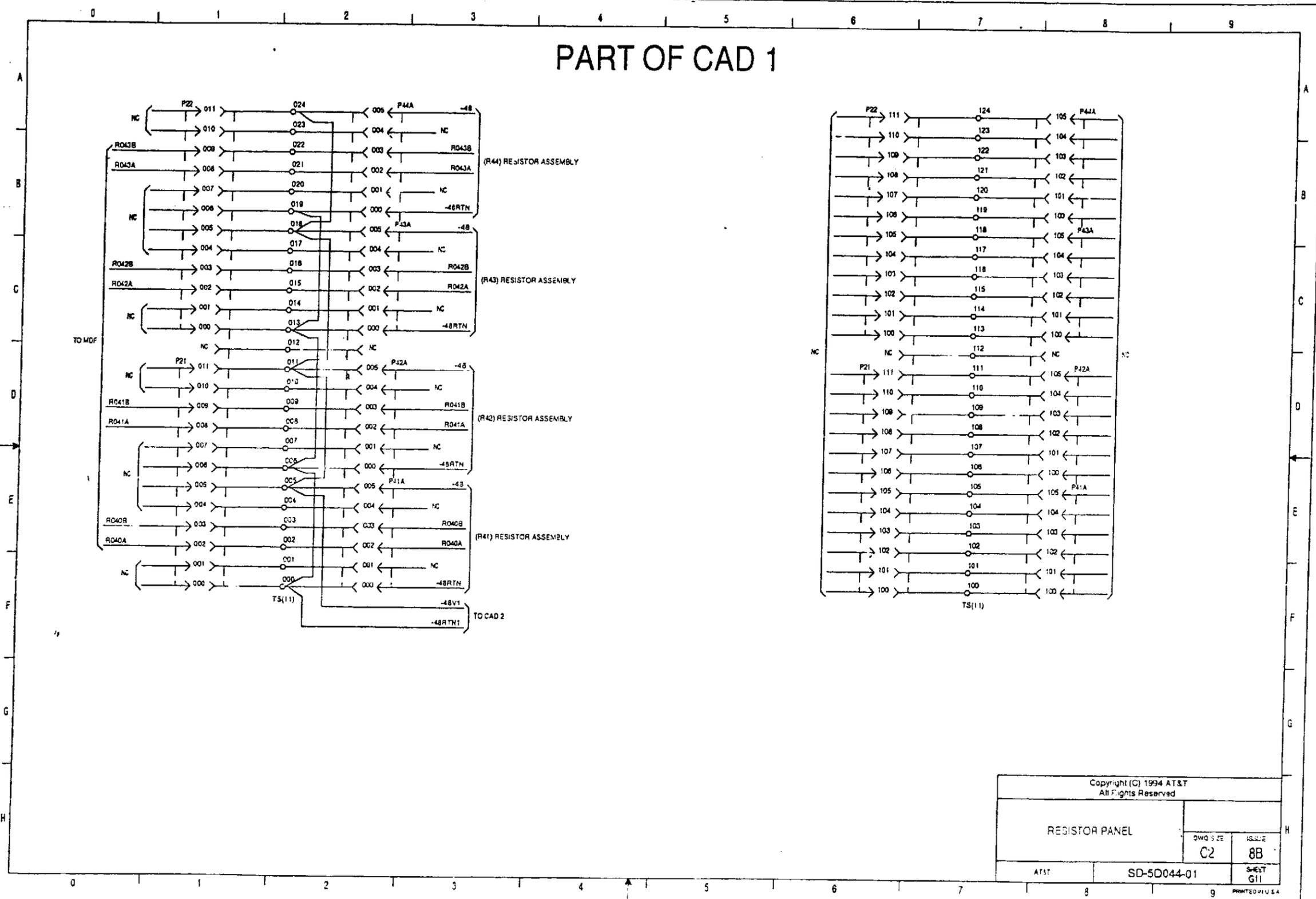
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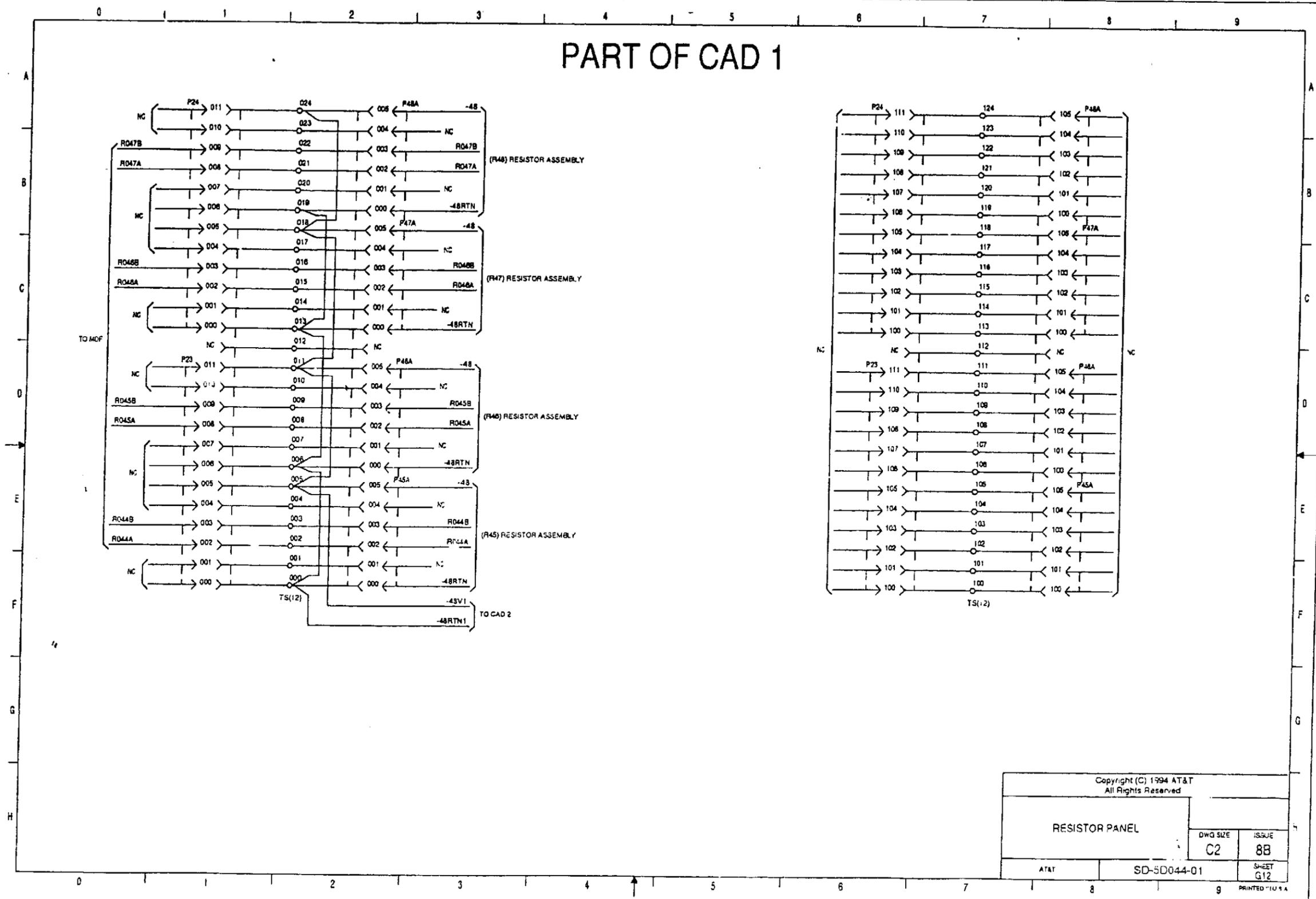
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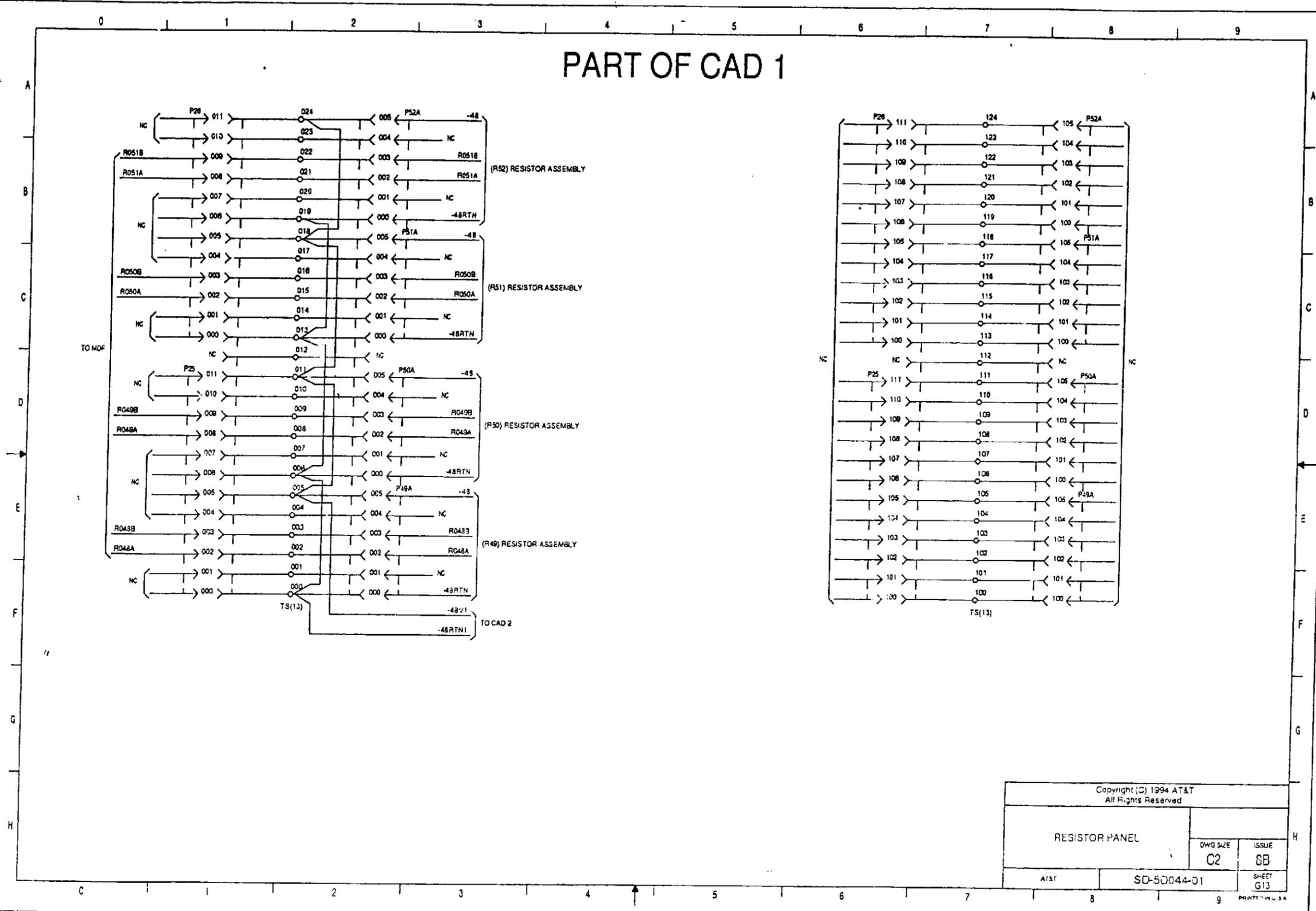
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RESISTOR PANEL

DWG SIZE	ISSUE
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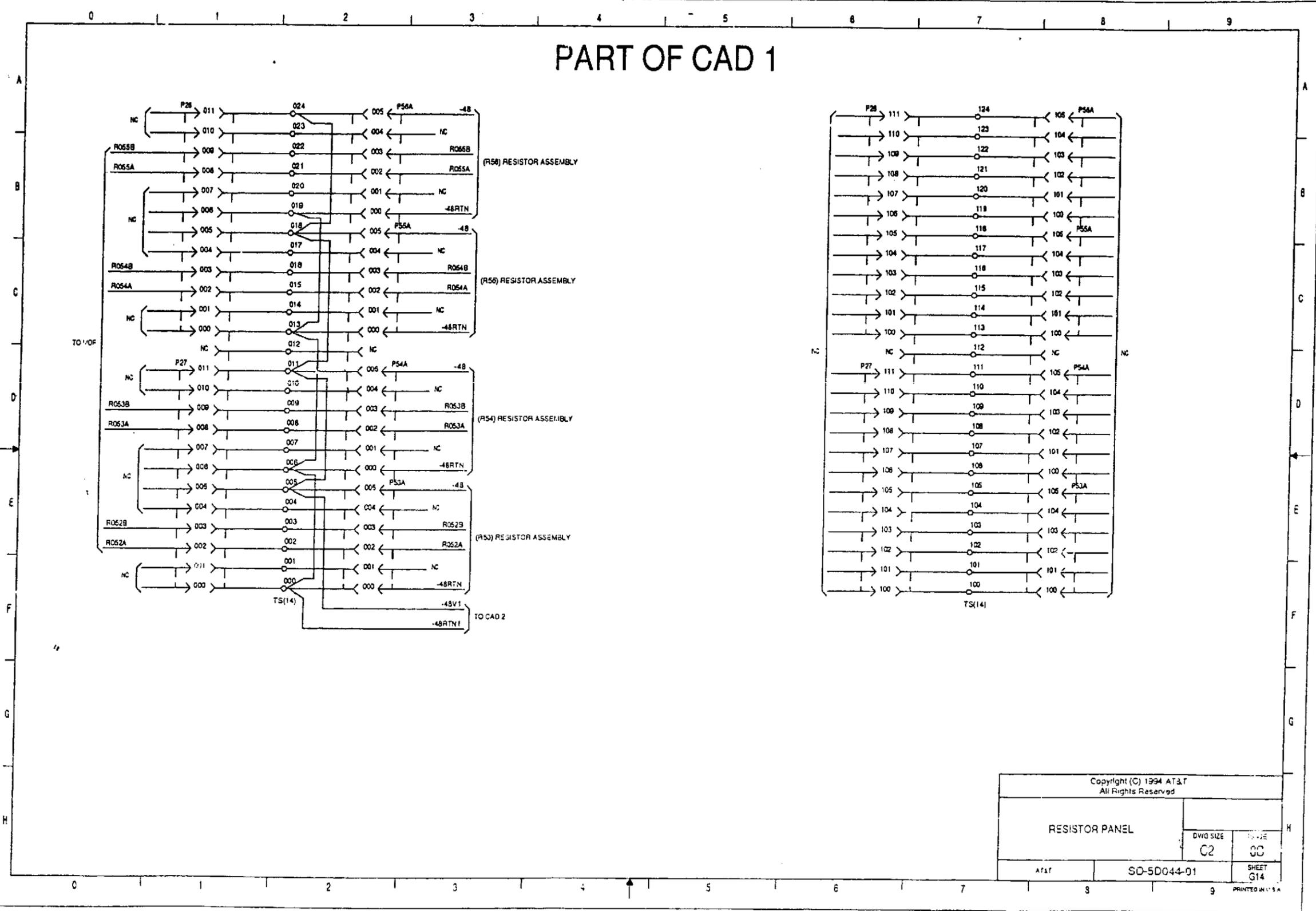
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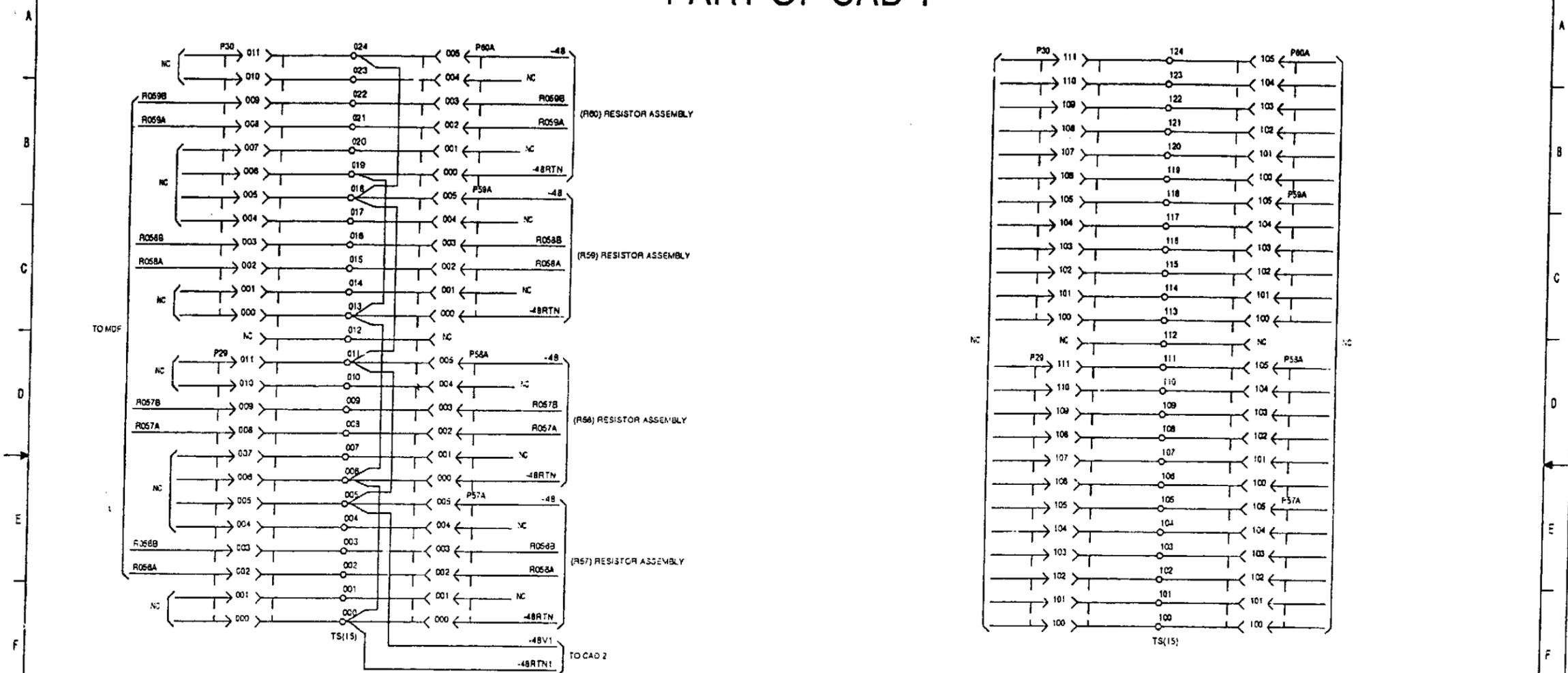
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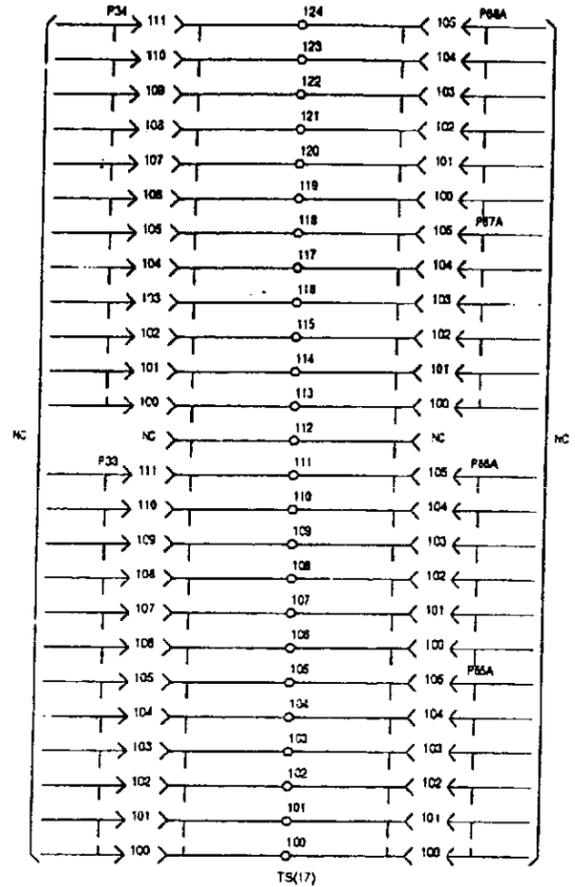
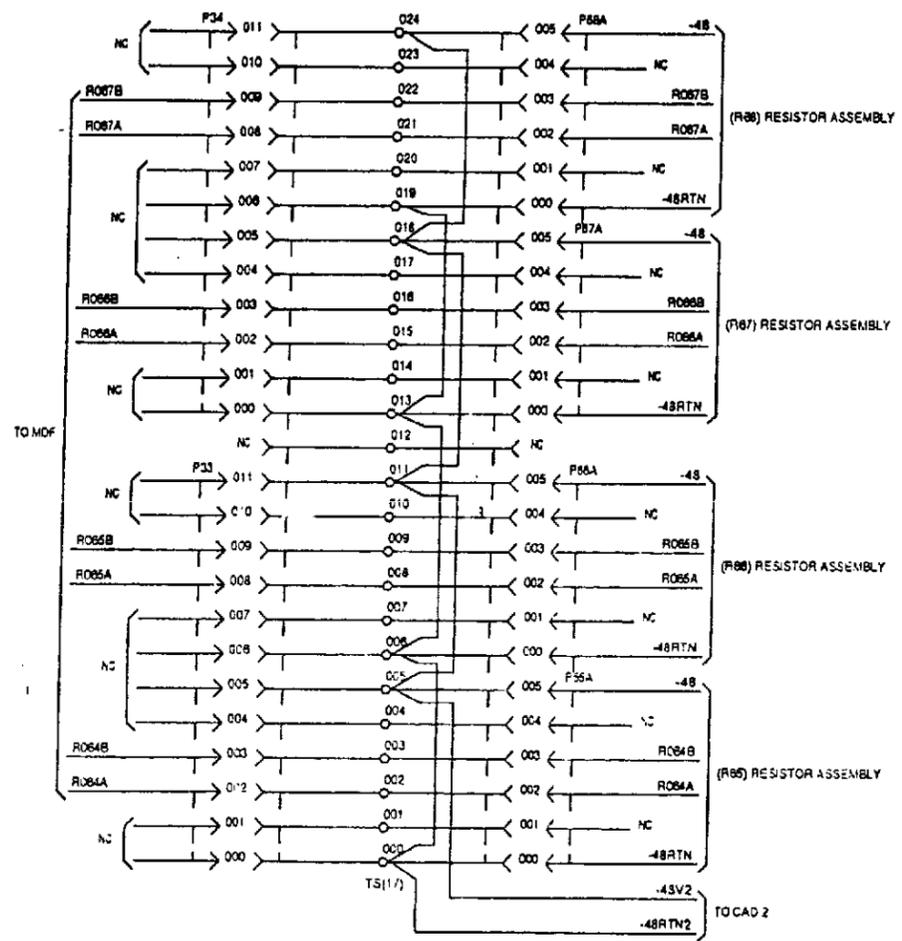
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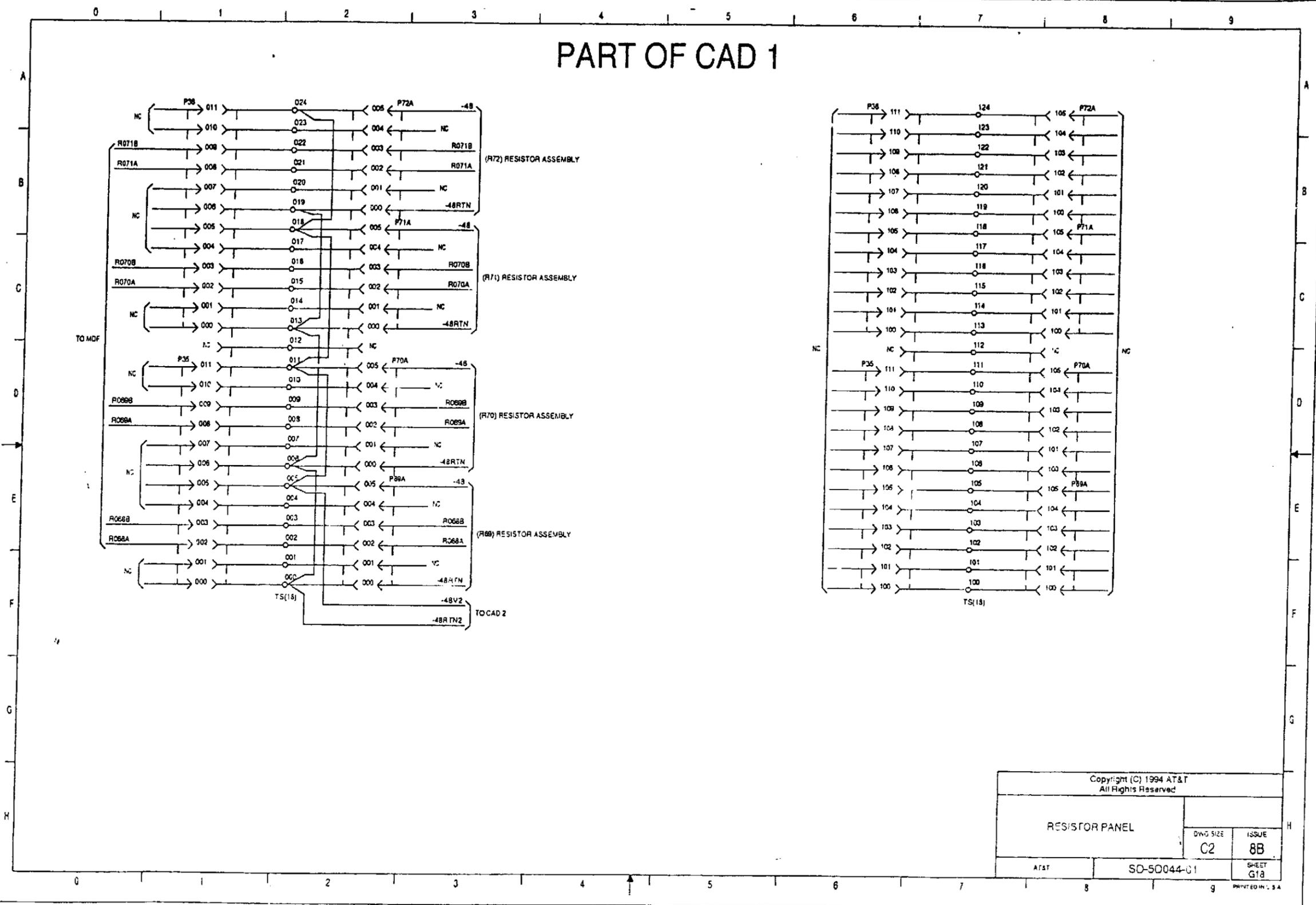
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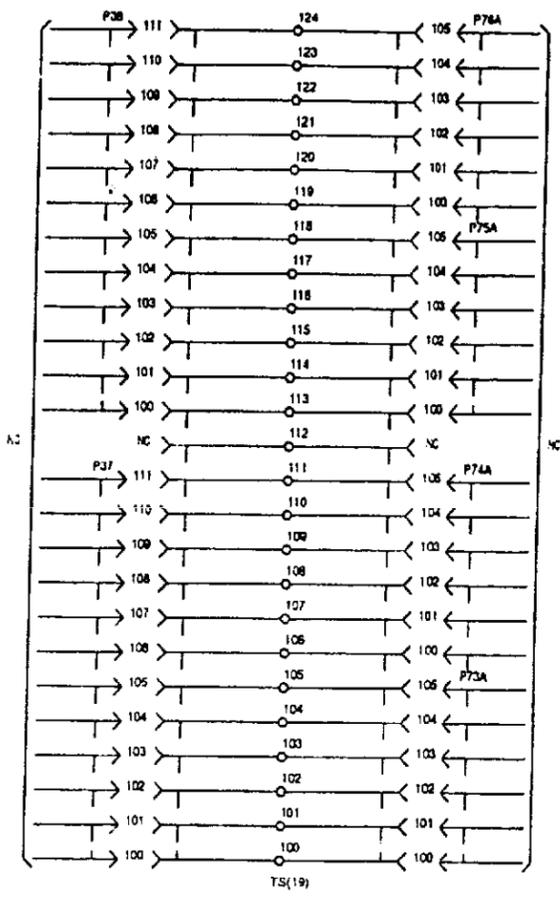
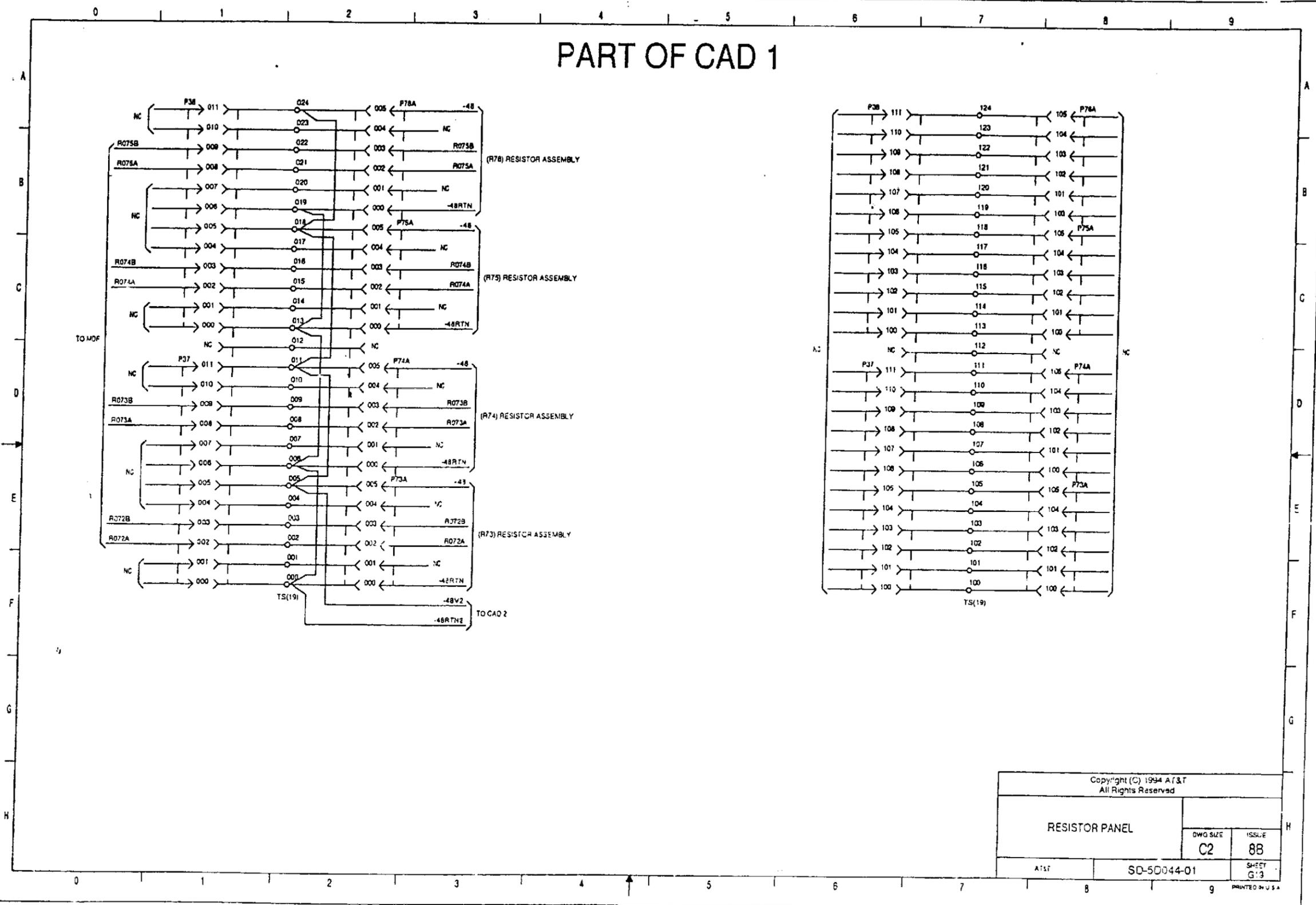
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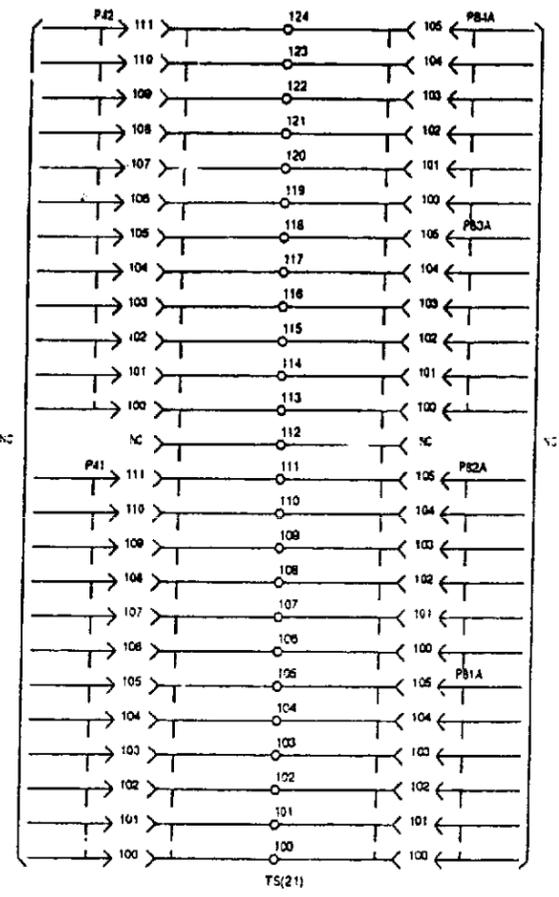
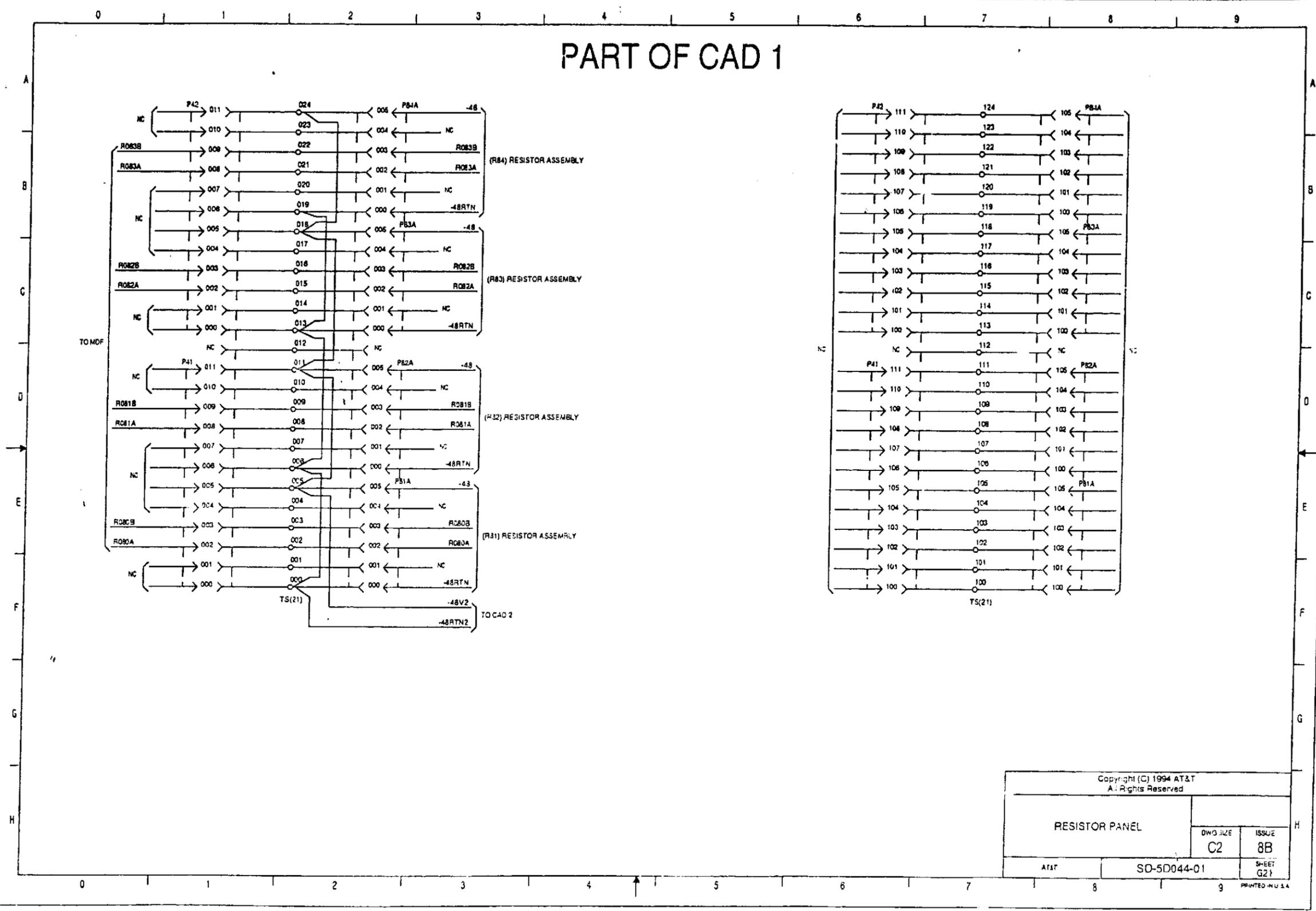
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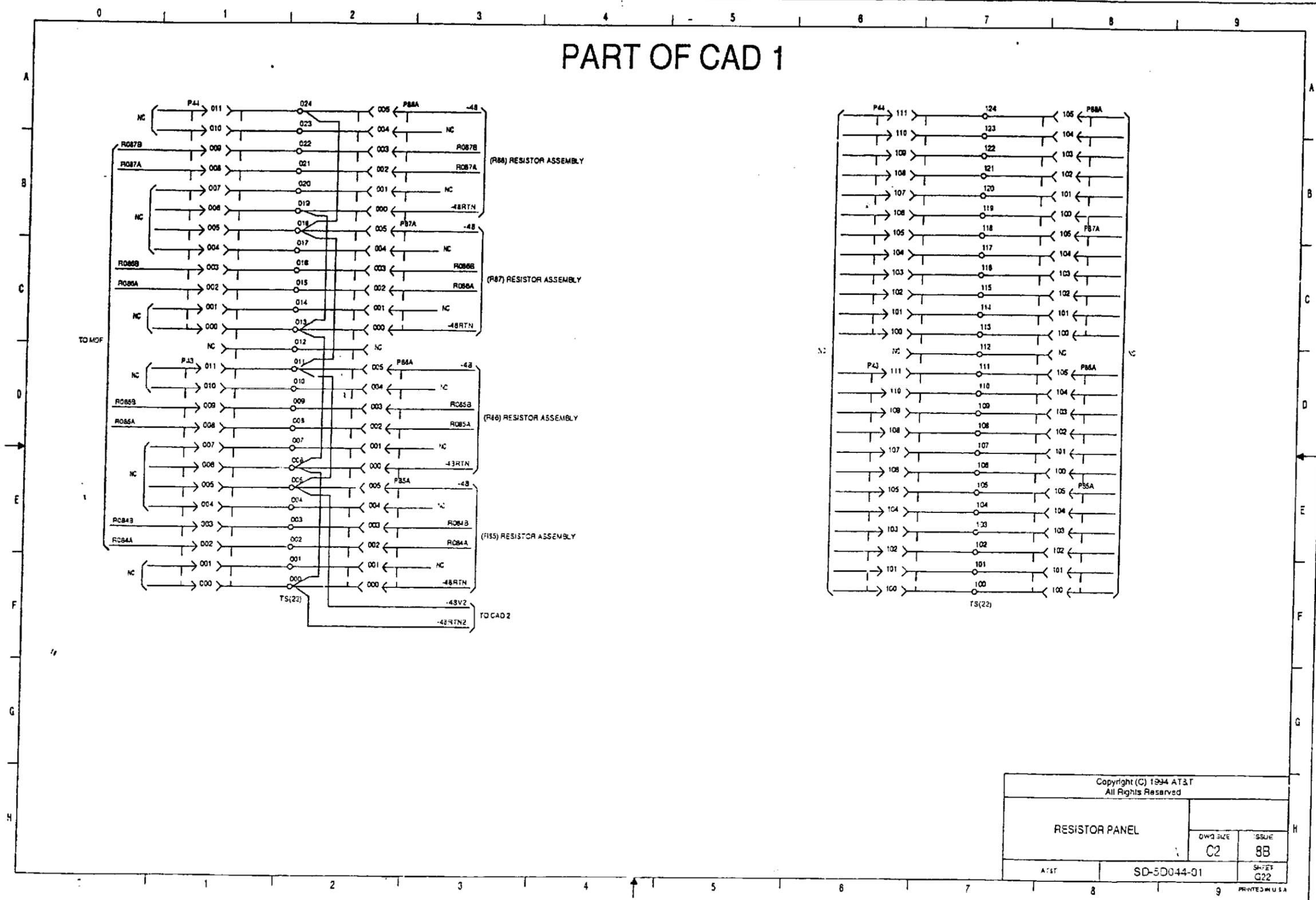
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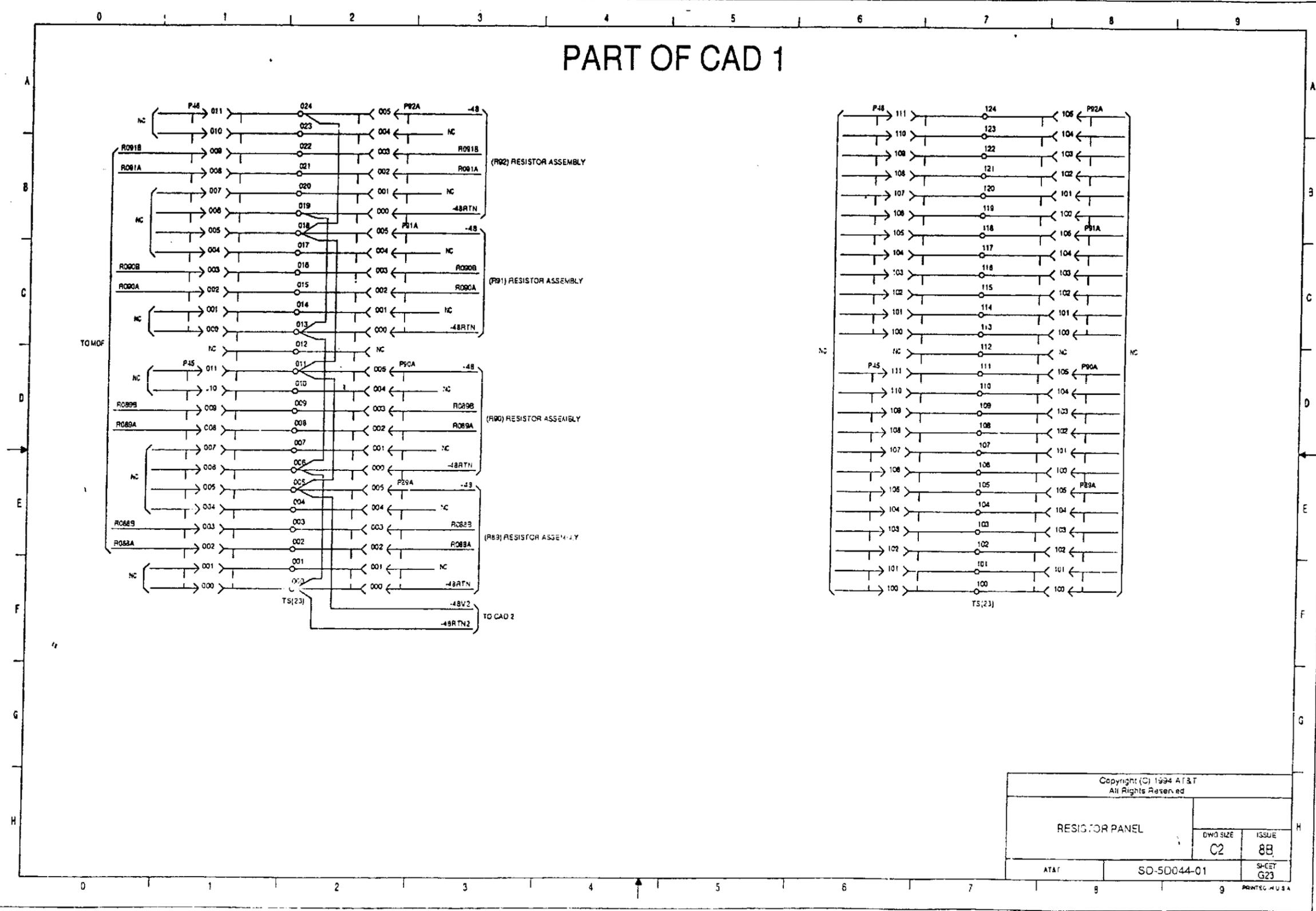
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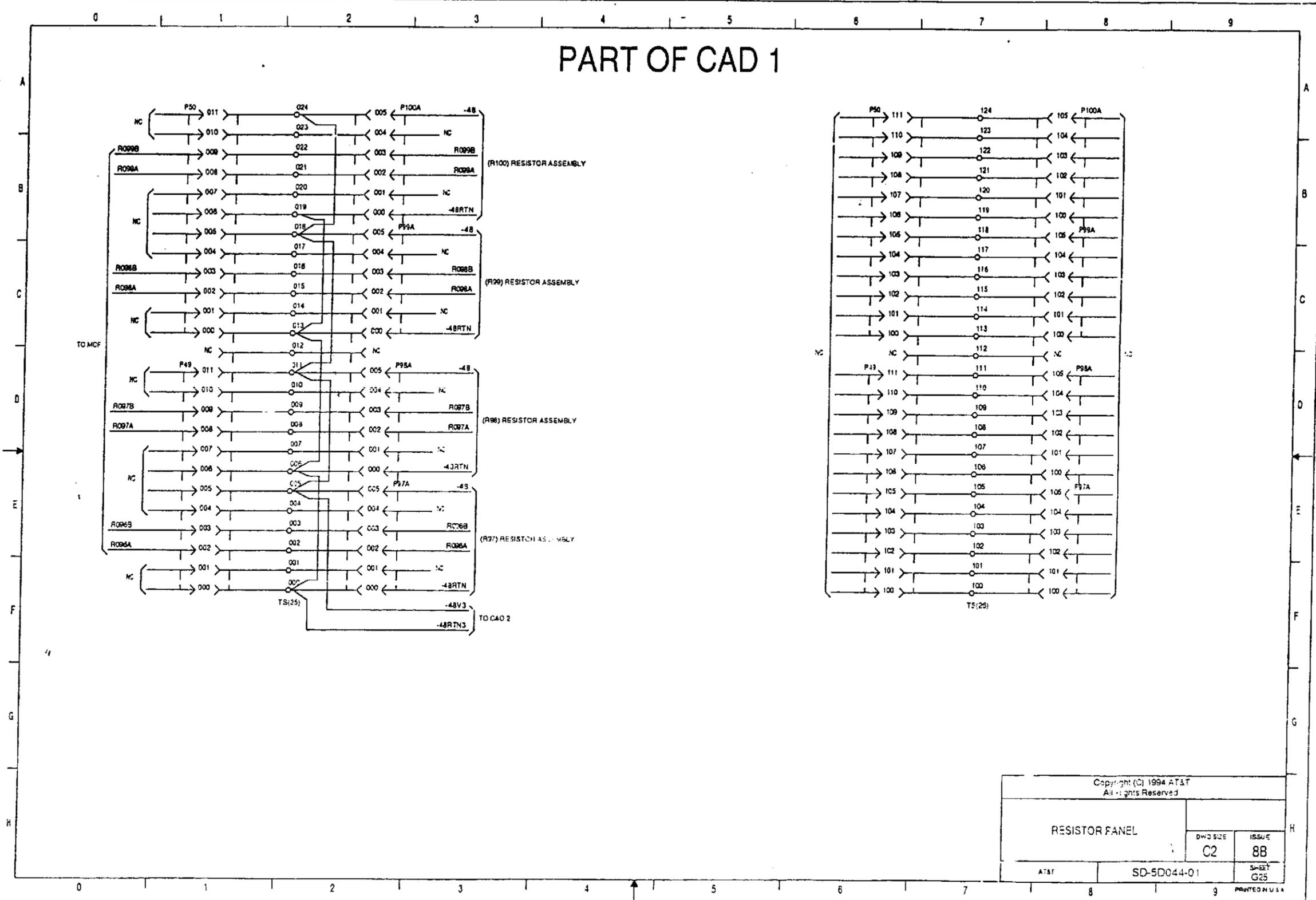
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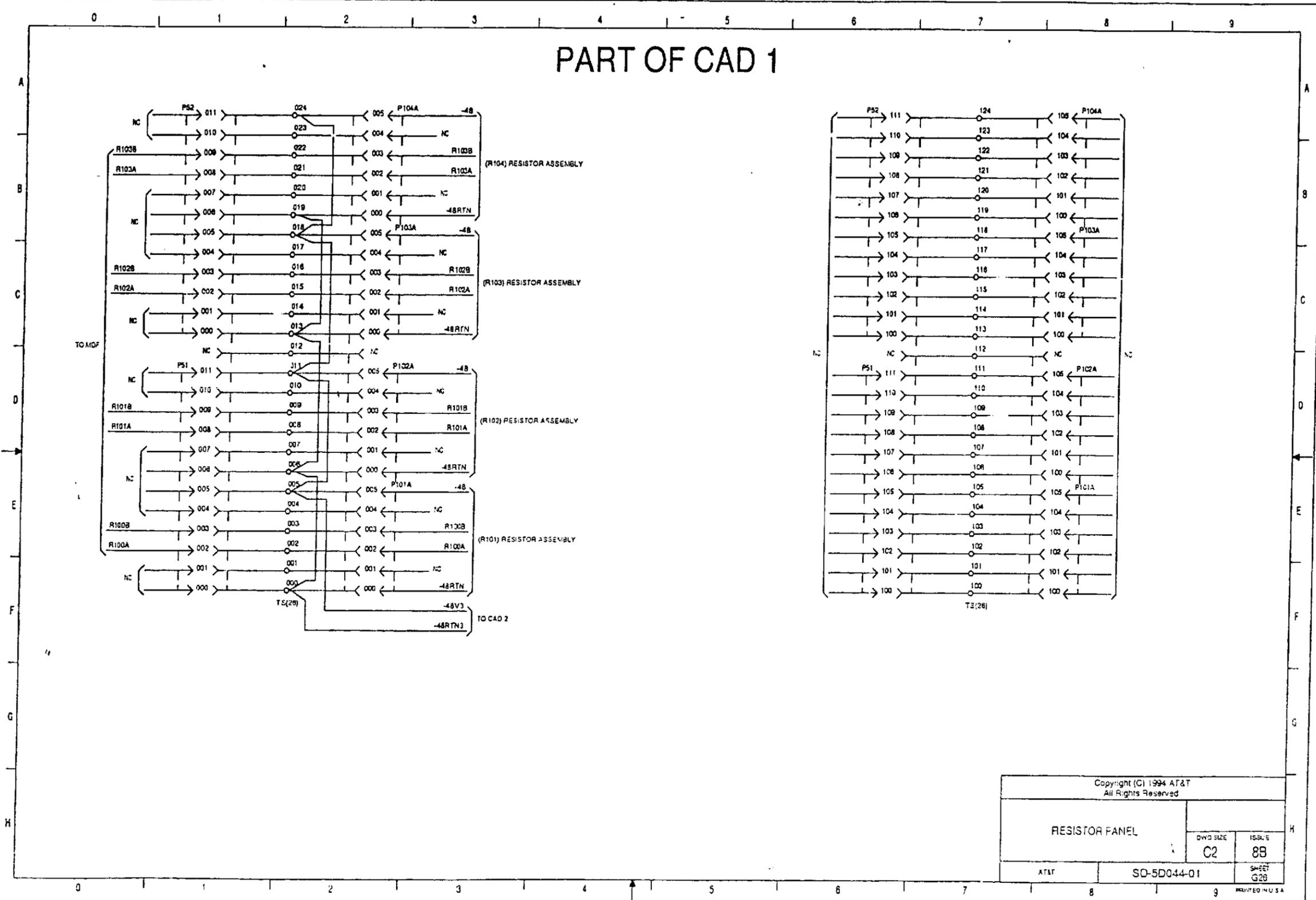
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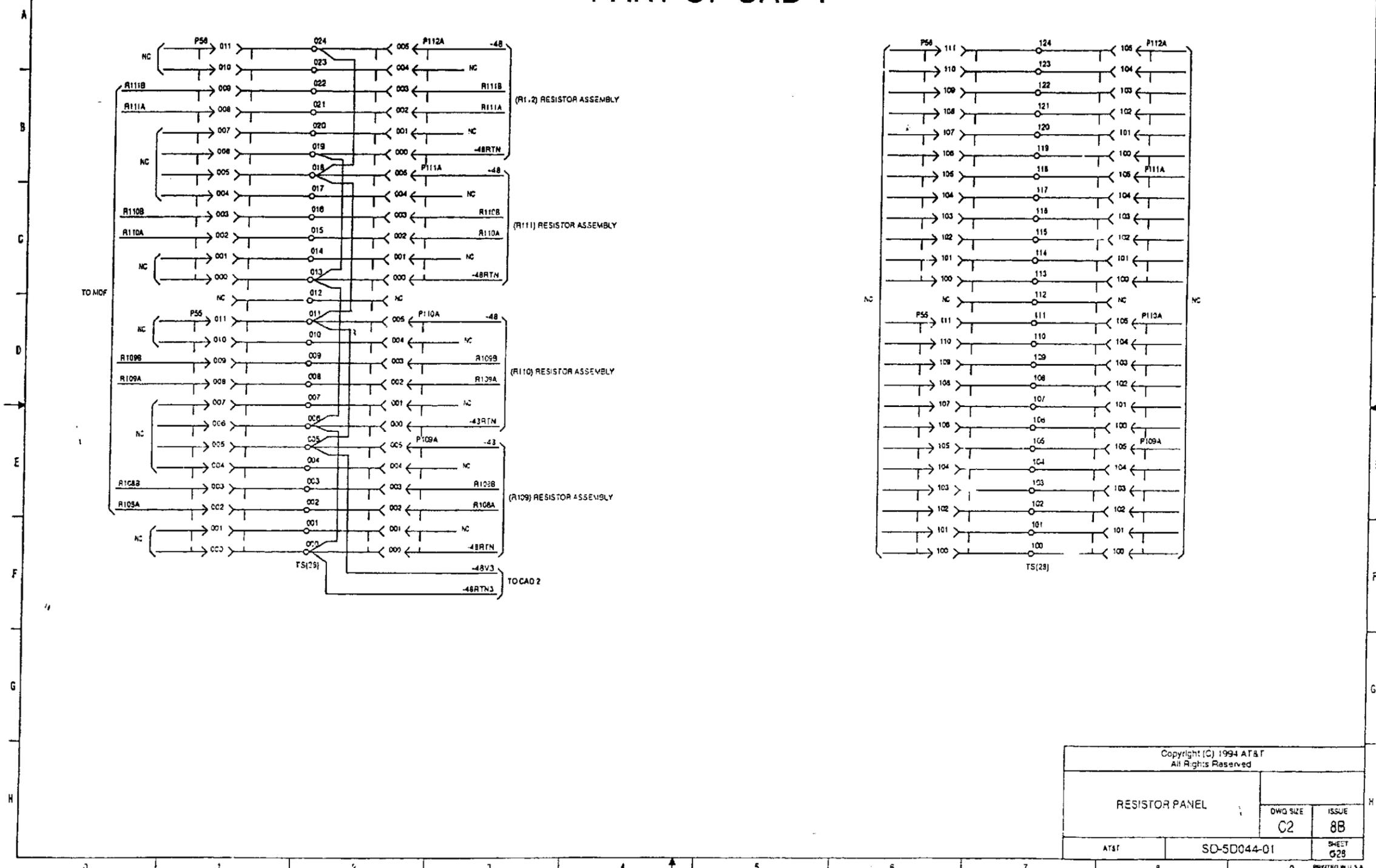
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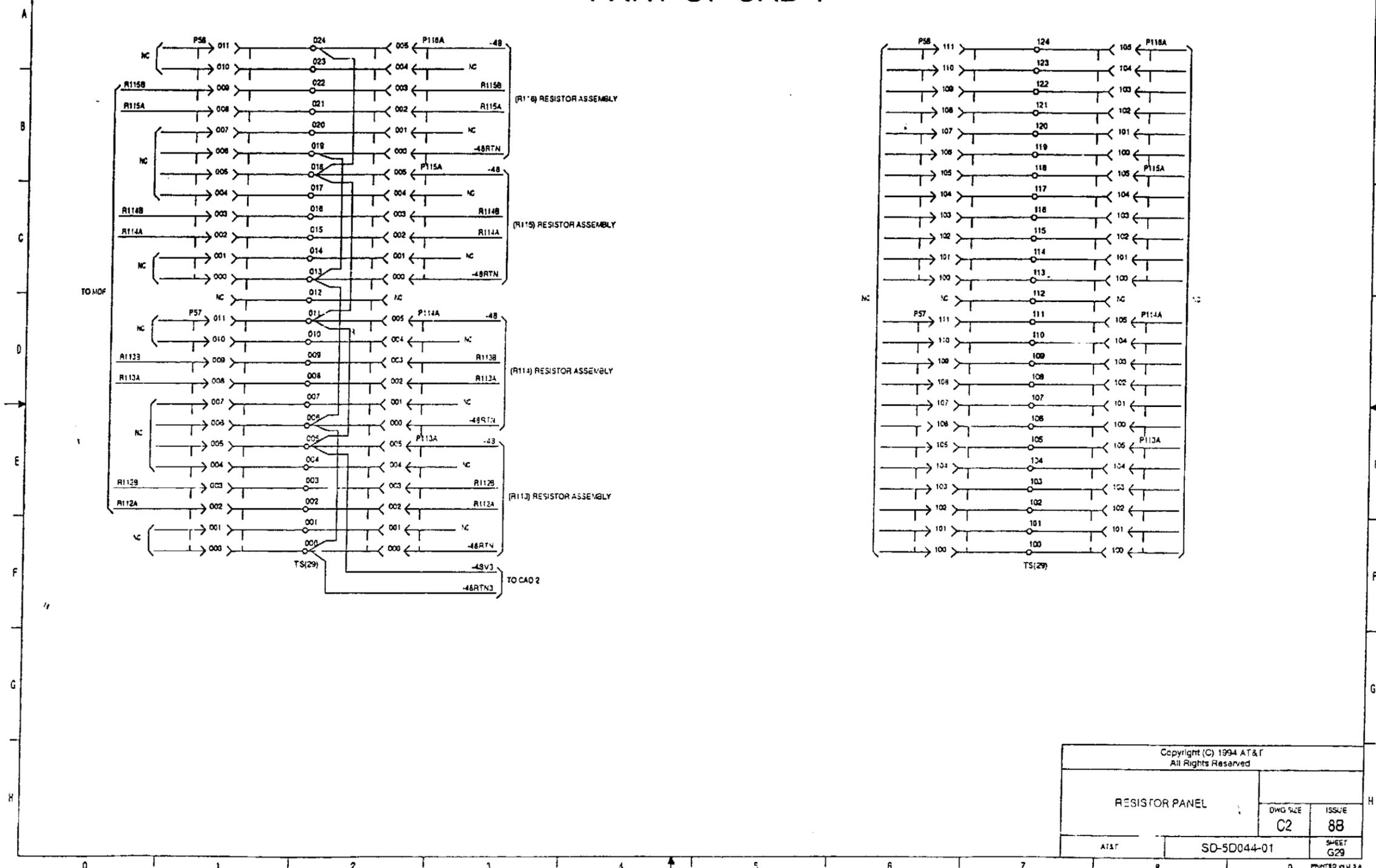
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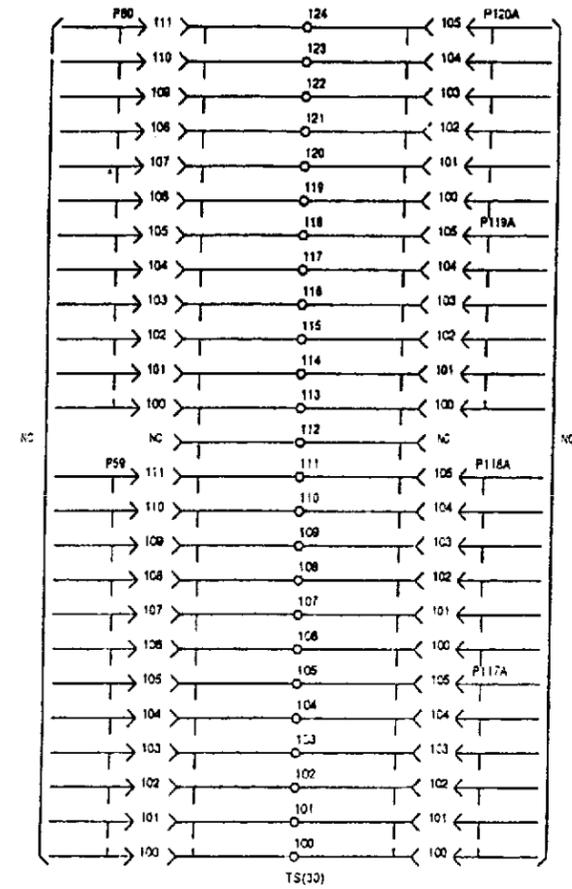
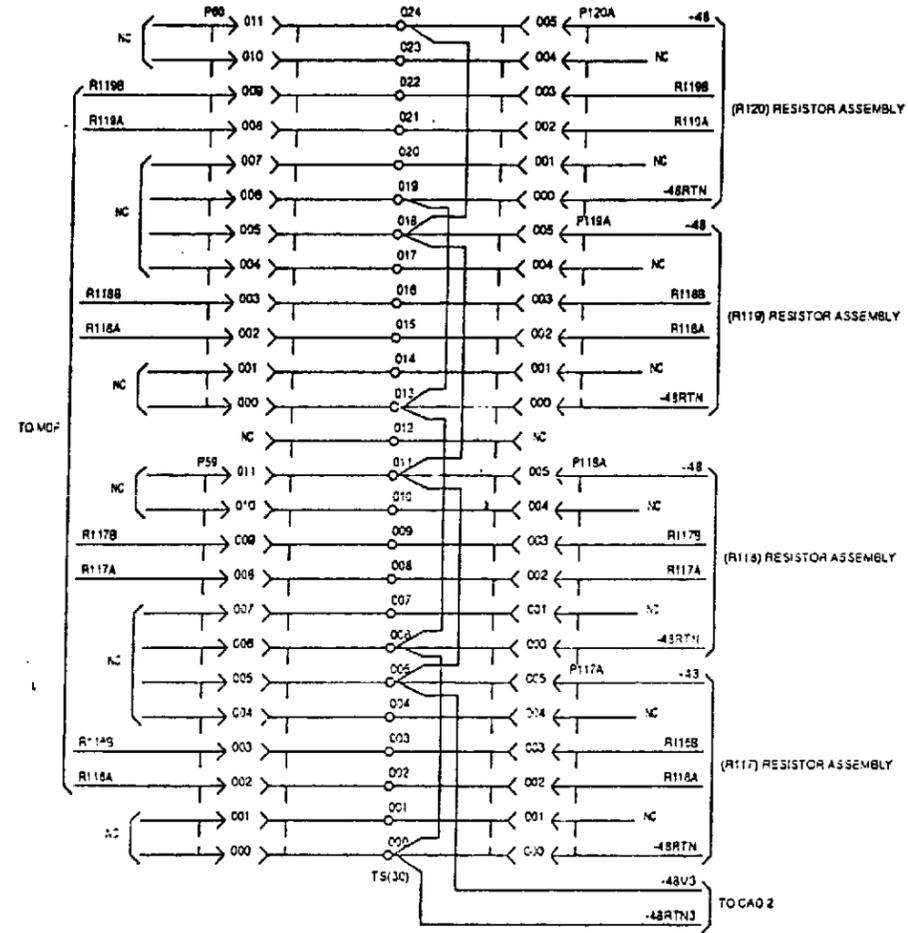
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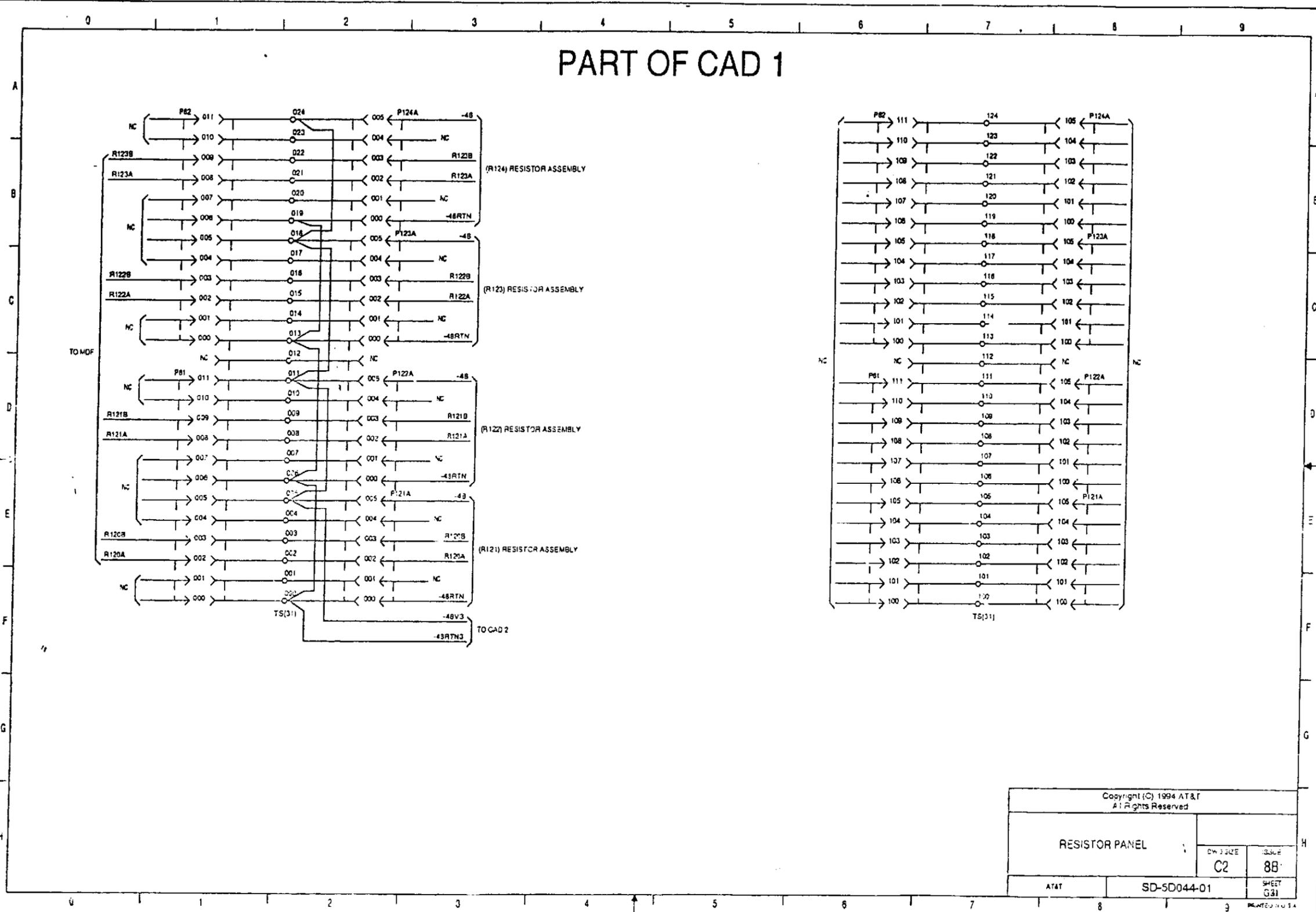
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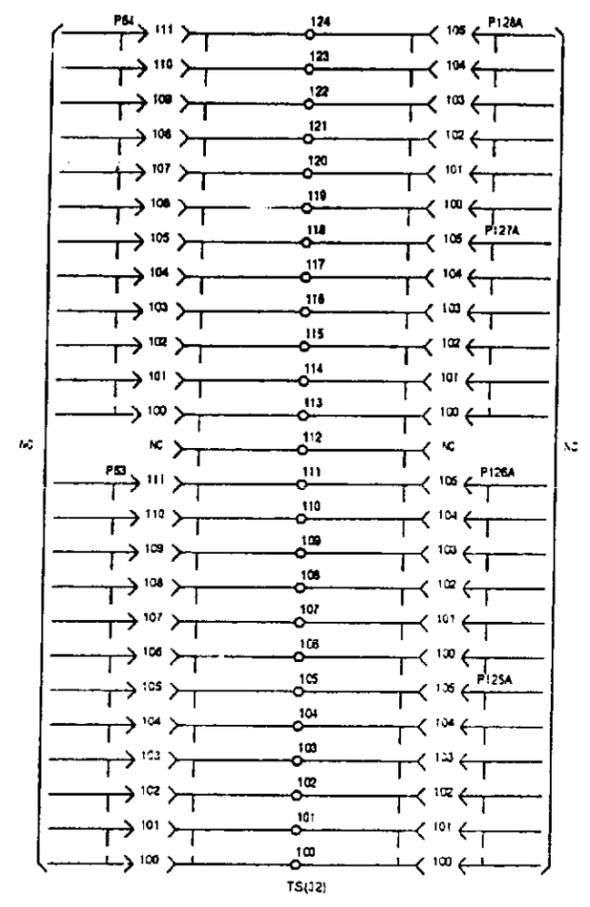
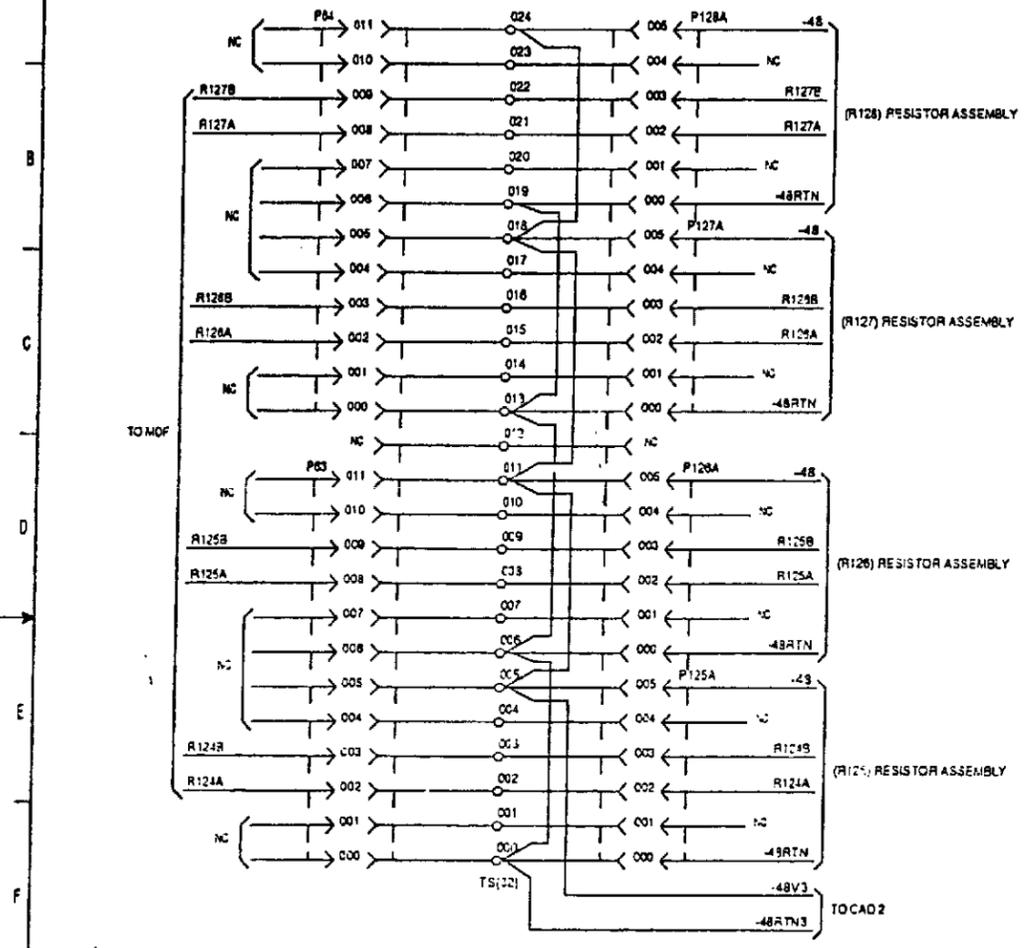
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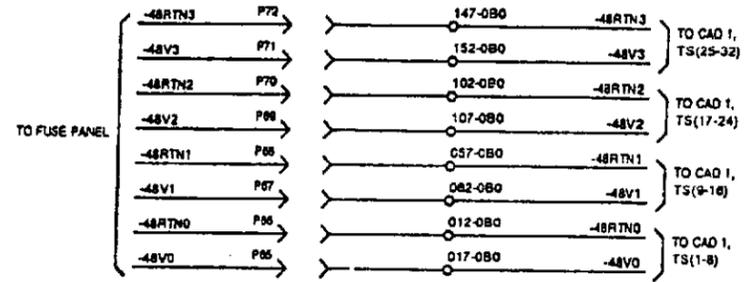
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CAD 2



TO FUSE PANEL

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