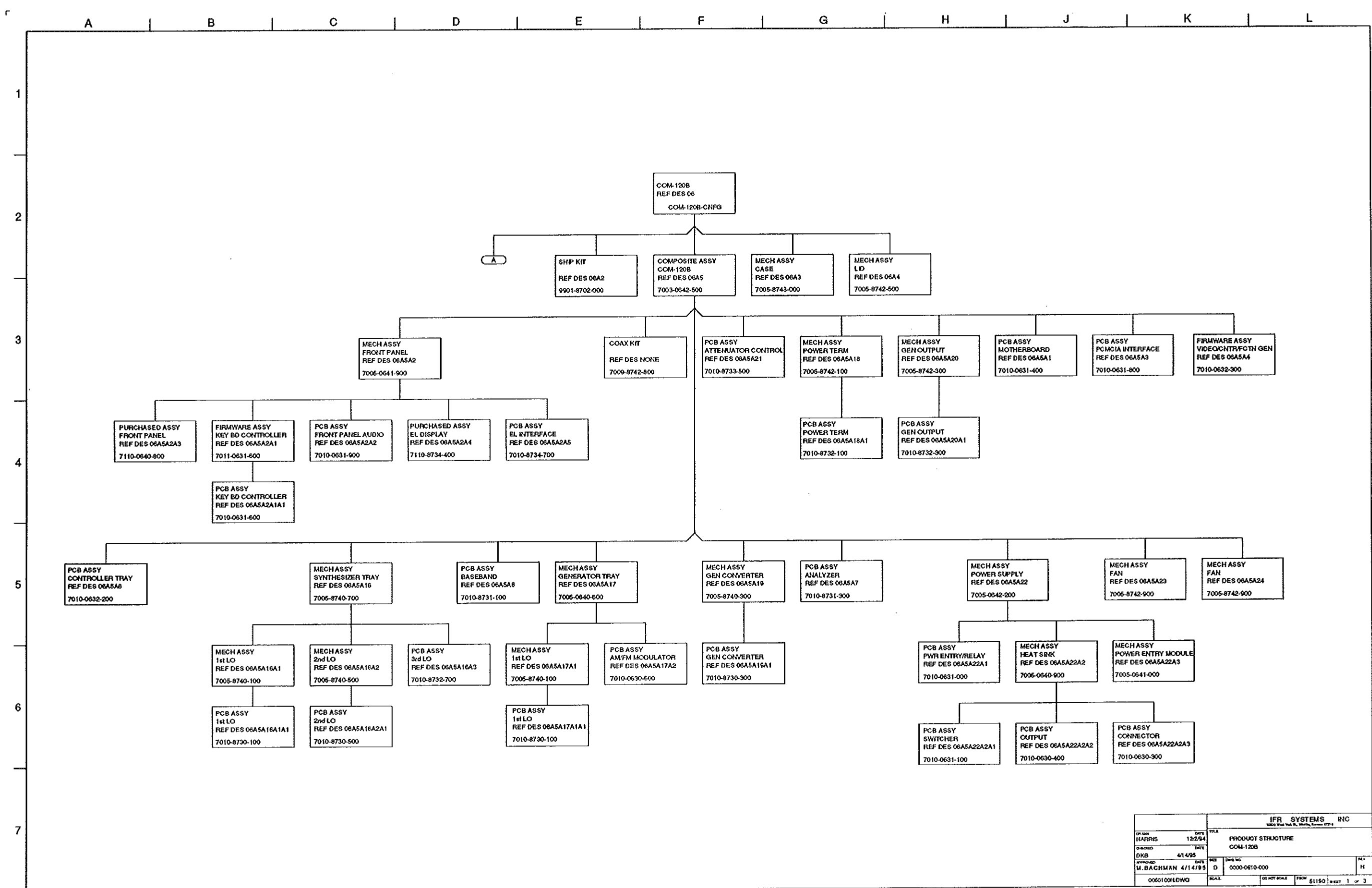


COM-120B
COMPOSITE ASSEMBLY (REV. B)

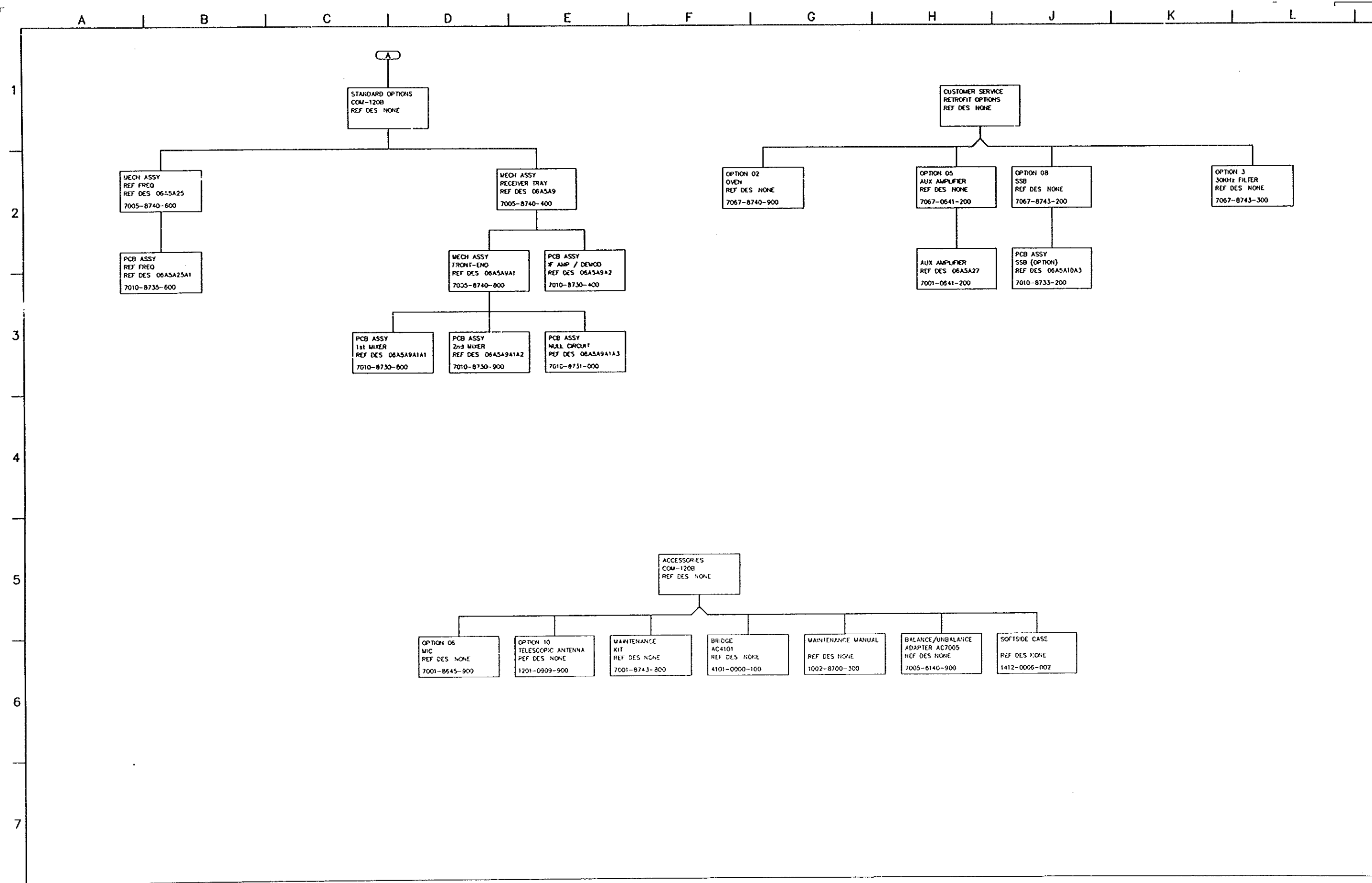
BILL OF MATERIAL
LISTED BY REF. DESIGNATOR.
PRINT DATE 09/25/96

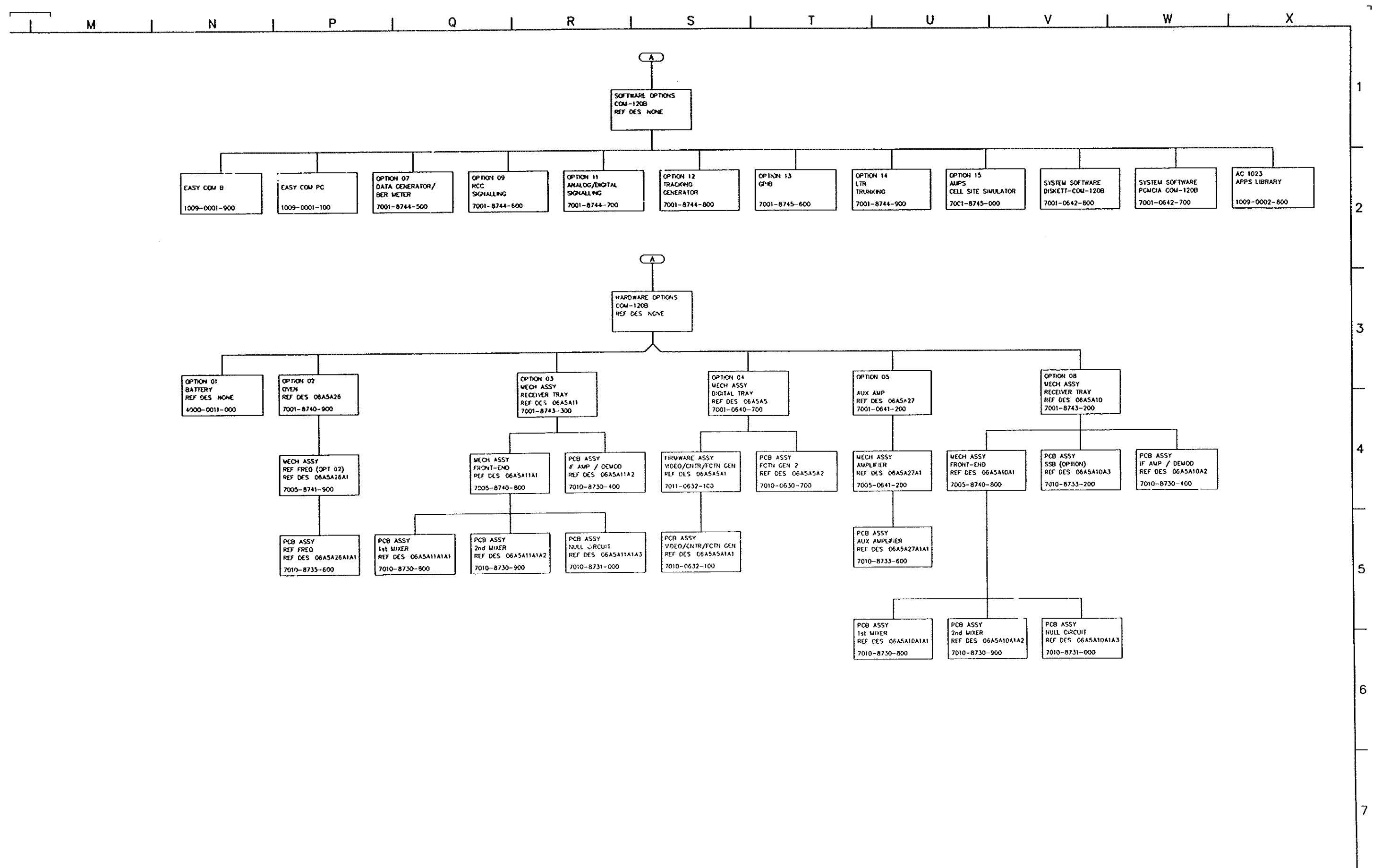
REF.DES.	QTY	PART NO.	DESCRIPTION	REV.
	1.00	7009-8742-600	WIRE KIT COM-120A	A
	1.00	7009-8742-800	COAX KIT COM-120A	B2
*01	1.00	6500-8780-000	MINOR ASSY, CHASSIS COM-120A	D
*02	9.00	6004-6005-400	TY-RAP, 4.0 LG	
*03	2.00	4503-8752-600	RETAINER, SPEAKER	D
*05	47.00	2803-0250-006	SCREW, 4-40 X 1/4 PPHM	
*06	4.00	2803-0188-003	SCREW, 4-40 X 3/16 PFHM	
*07	18.00	2803-0125-006	SCREW, 4-40 X 1/8 PPHM	
*08	1.00	1400-8762-100	BRACKET, SCREEN	D
*09	1.00	1405-8758-400	PANEL, REAR COM-120A	E1
*10	1.00	1414-8758-700	COVER, BATTERY	E
*11	1.00	2602-8766-000	SCREEN, REAR PANEL	D
13	14.00	4104-8700-004	CARD GUIDES, PLASTIC CSM-120A	A
*14	1.00	2850-8757-200	NUT, N CONN SPACER T/R PORT	D
*18	2.00	2845-8765-800	FINGERSTOCK, 3.70" BATTERY	A
*19	2.00	2845-8765-900	FINGERSTOCK, 2.85" BATTERY	A
*20	1.00	1400-8758-100	BRACKET, FAN DUCT	D
*21	1.00	6500-8781-700	MINOR ASSY, BATTERY BOX	A1
*22	8.00	2803-1188-006	SCREW, 4-40 X 1 3/16 PPHMS	A
*25	1.00	2400-8764-300	OVERLAY, POWER SUPPLY	B3
*26	1.00	2400-8764-400	OVERLAY, REAR PANEL	A2
*27	1.00	2800-8764-500	SPACER, N CONNECTOR	D
*28	6.00	2803-0188-006	SCREW, 4-40 X 3/16 PPHM	A
*30	1.00	2400-0000-005	INTERNAL OPTIONS TAG	A
*32	1.00	2400-8766-300	LABEL, BATTERY FUSE	A3
A01	1.00	7005-8742-400	MECH ASSY, FRONT PANEL	E1
A03	1.00	7010-8733-500	PCB ASSY, ATTENUATOR CONTROL	B1
A04	1.00	7005-8742-100	MECH ASSY, POWER TERM	F
A05	1.00	7005-8742-300	MECH ASSY, GENERATOR OUTPUT	D4
A06	1.00	7010-8730-000	PCB ASSY, MOTHERBOARD	C1
A08	1.00	7005-8740-700	MECH ASSY, SYNTHESIZER TRAY	G
A09	1.00	7010-8731-100	PCB ASSY, BASE BAND	E3
A10	1.00	7005-8740-200	MECH ASSY, GENERATOR TRAY	C1
A11	1.00	7005-8740-300	MECH ASSY, CONVERTER	D5
A12	1.00	7010-8731-300	PCB ASSY, ANALYZER	K
A13	1.00	7005-8740-400	MECH ASSY, RECEIVER TRAY	D
A14	1.00	7011-8731-800	FIRMWARE ASSY, VIDEO/CNTR/FUNC GEN	D3
A15	1.00	7110-8742-700	POWER SUPPLY, COM-120A	
A16	1.00	7005-8740-600	MECH ASSY, REF FREQ	F
A17	1.00	7005-8741-600	MECH ASSY, CONTROLLER TRAY	D
A30/A31	2.00	7005-8742-900	MECH ASSY, FAN	A2
AT1	1.00	2901-8700-110	ATTEN, PRG 110dB 10dB STEP RLY	B
AT1GL1	1.00	2850-0000-055	GROUND LUG 2 T-251	
J0	1.00	2200-0410-100	CONN, ADAPT, F BNC/F SMASTR BHD*	A1
LS01/LS02	2.00	5950-0000-004	SPEAKER, MYLAR 2.25 DIA *	A
W01	1.00	6042-8780-800	COAX SR .141 F N ST-M SMA ST	A1

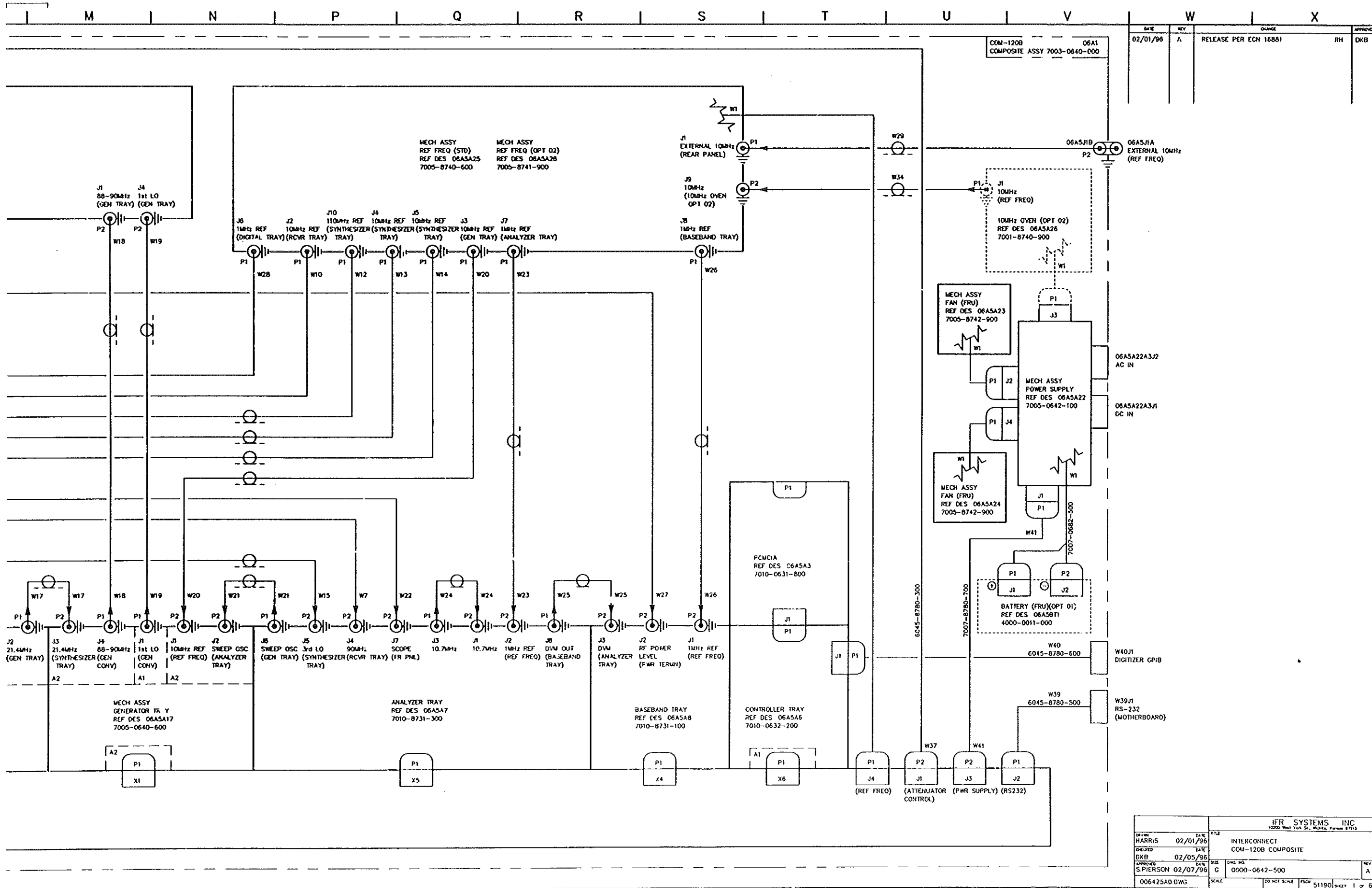
REF.DES.	QTY	PART NO.	DESCRIPTION	REV.
W30	1.00	6042-8781-100	COAX SR .086 M SMA ST-M SMA RA	A1
W31	1.00	6042-8781-000	COAX SR .086 M SMA ST-M SMA ST	A1
W32	1.00	6042-8780-900	COAX SR .086 M SMA RA-M SMA RA	A1
W37	1.00	6045-8780-300	RBN CA ASSY, MOTHERBD-ATTEN	A2
W38	1.00	6045-8780-400	RBN CA ASSY, MOTHERBD-FT PNL	A1
W39	1.00	6045-8780-500	RBN CA ASSY, MOTHERBD-RS232	A3
W41	1.00	7007-8780-700	W HARN ASSY, MOTHBD-PWR SUPPLY	A1
W43	1.00	7007-8783-900	WIRE HARNESS, COMPOSITE SPEAKER	A1
W46	2.00	6008-1000-011	WIRE, HOOK, TFE, 26GA, 7S, WHT/BLK	



IFR SYSTEMS, INC.			
3000 West 10th St., Suite 100, Lincoln, NE 68502			
DESIGNED BY HARRIS	DATE 12/2/94	TITLE PRODUCT STRUCTURE COM-120B	
DRAWN BY DKB	DATE 4/14/95	REV D	DATE 0000-0610-000
APPROVED BY M. BACHMAN	DATE 4/14/95	REV D	DATE 0000-0610-000
005010HLDWG	SCALE	DO NOT SCALE	FROM 51150

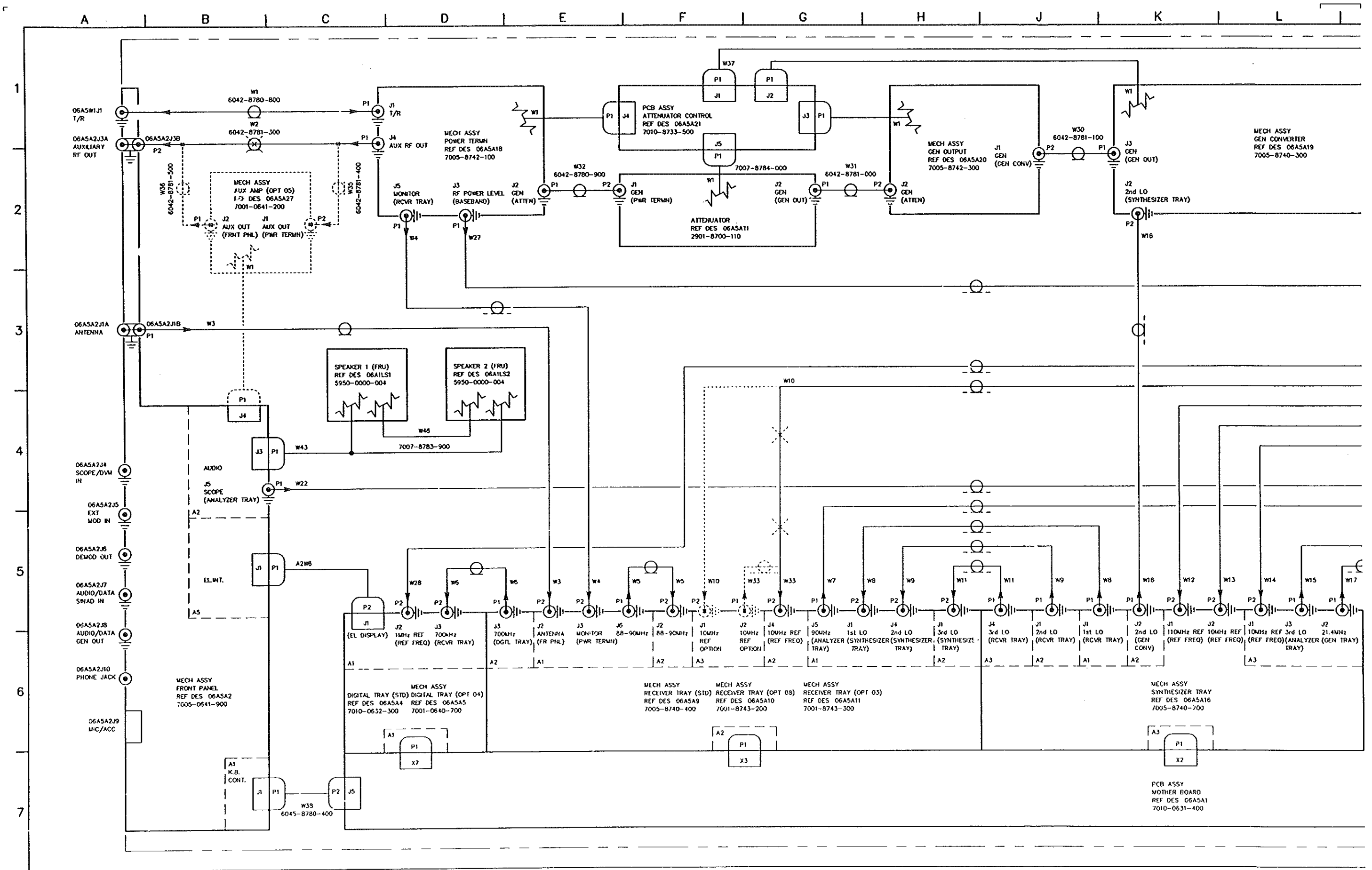




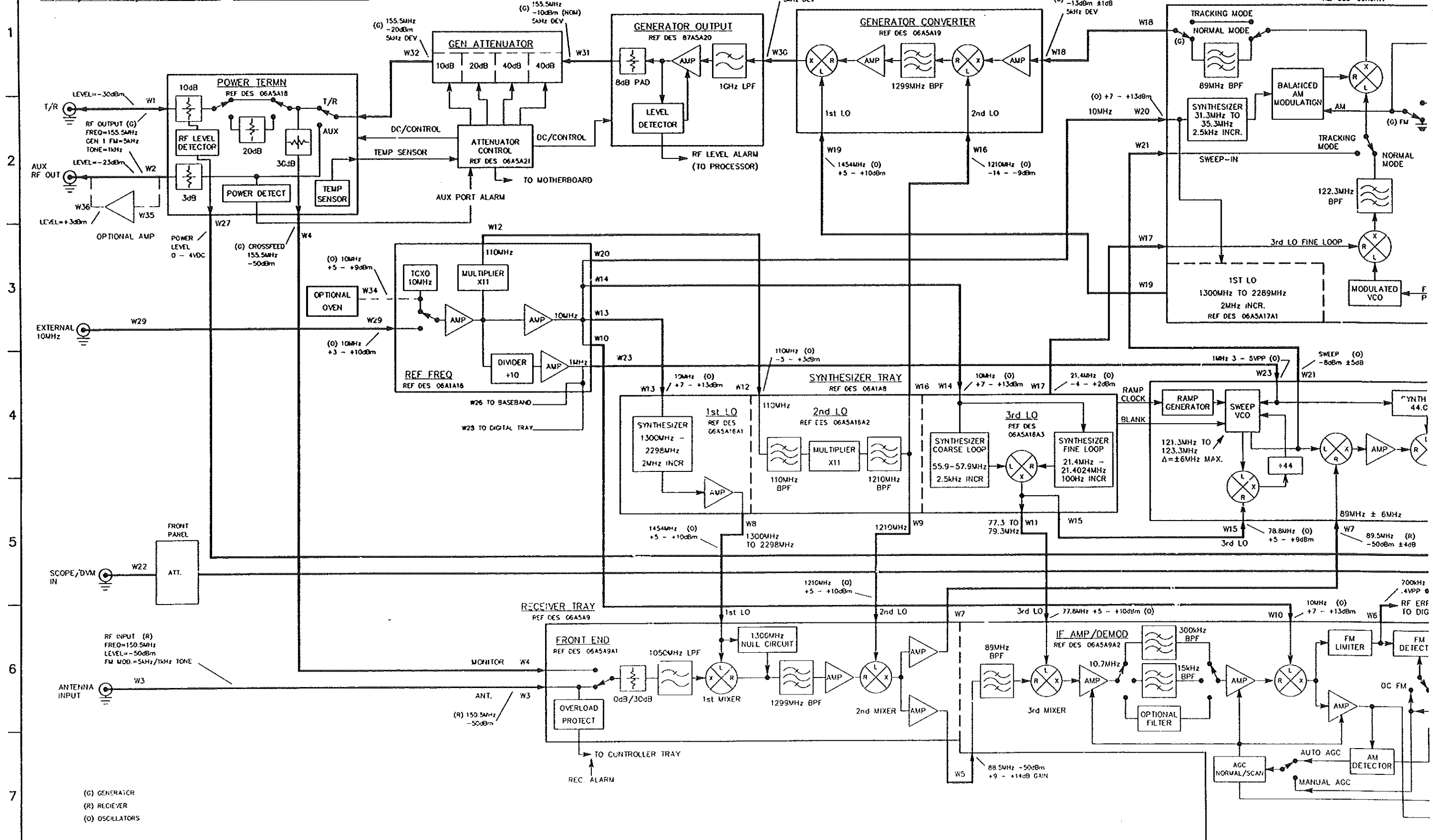


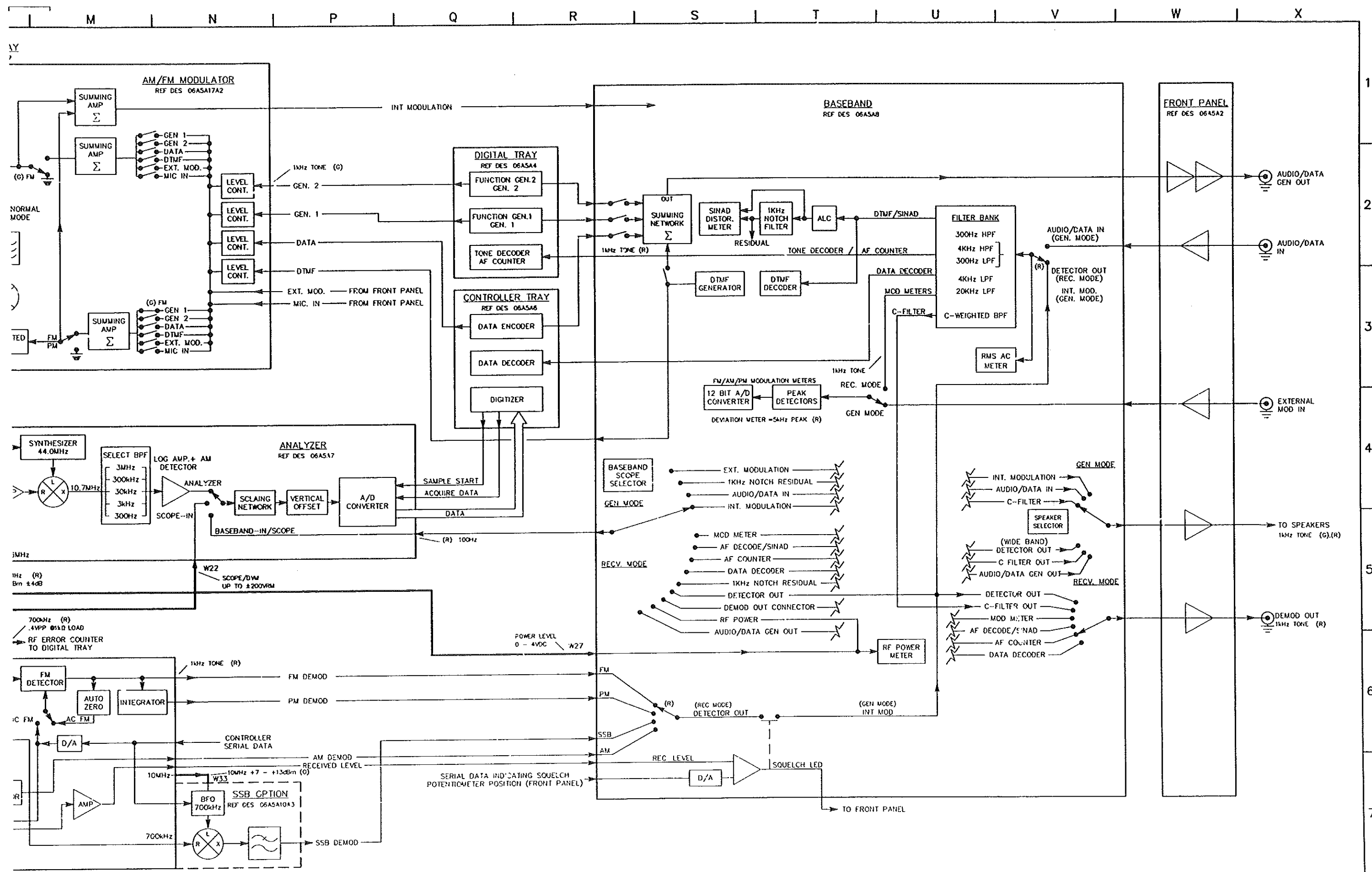
DATE	REV	CHANGE	APPROVED
02/01/96	A	RELEASE PER ECH 16881	RH

IFR SYSTEMS, INC.			
10000 West York St., Wichita, Kansas 67215			
DESIGNED	DATE	BY	INTERCONNECT
HARRIS	02/01/96		COM-120B COMPOSITE
CHECKED	DATE	BY	
DKB	02/05/96		
APPROVED	DATE	BY	
S. PIERSON	02/07/96		
006425A0 DWG	SCALE	DO NOT SCALE	51190



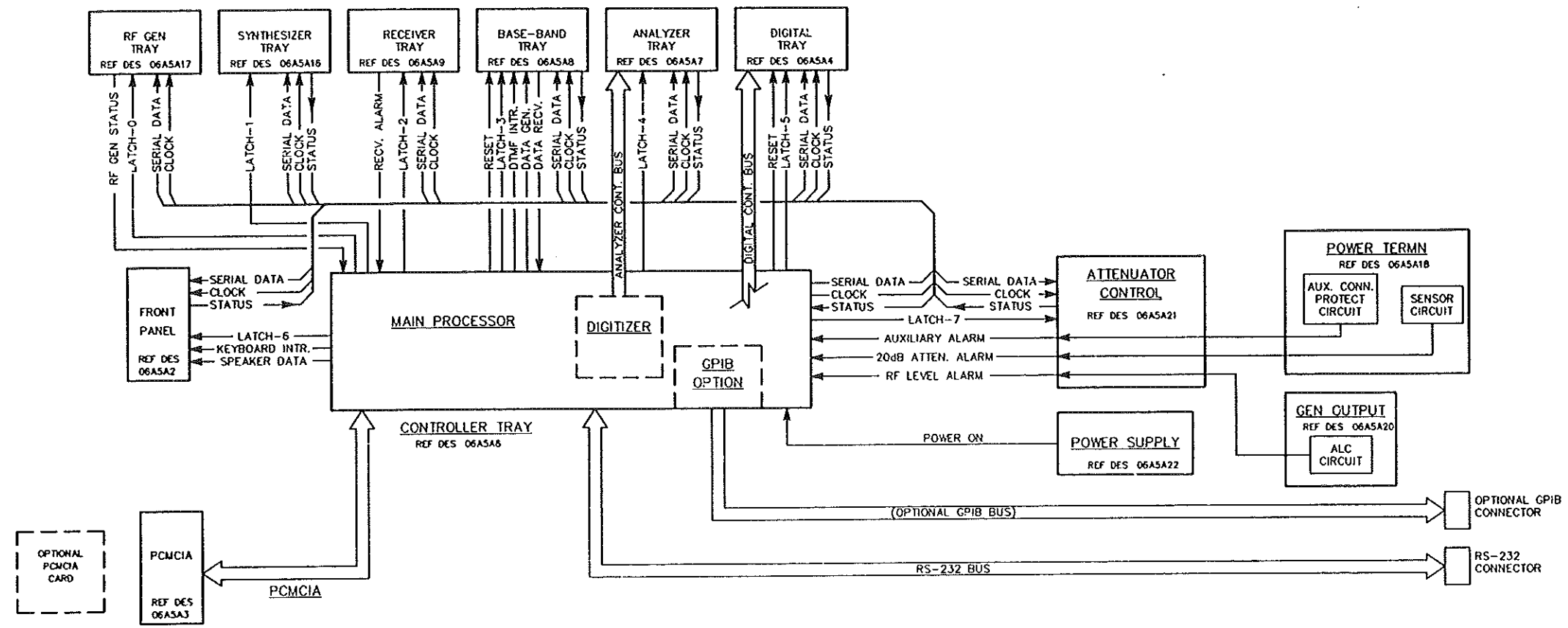
GEN./RECV./ANALYZER BLOCK DIAGRAM



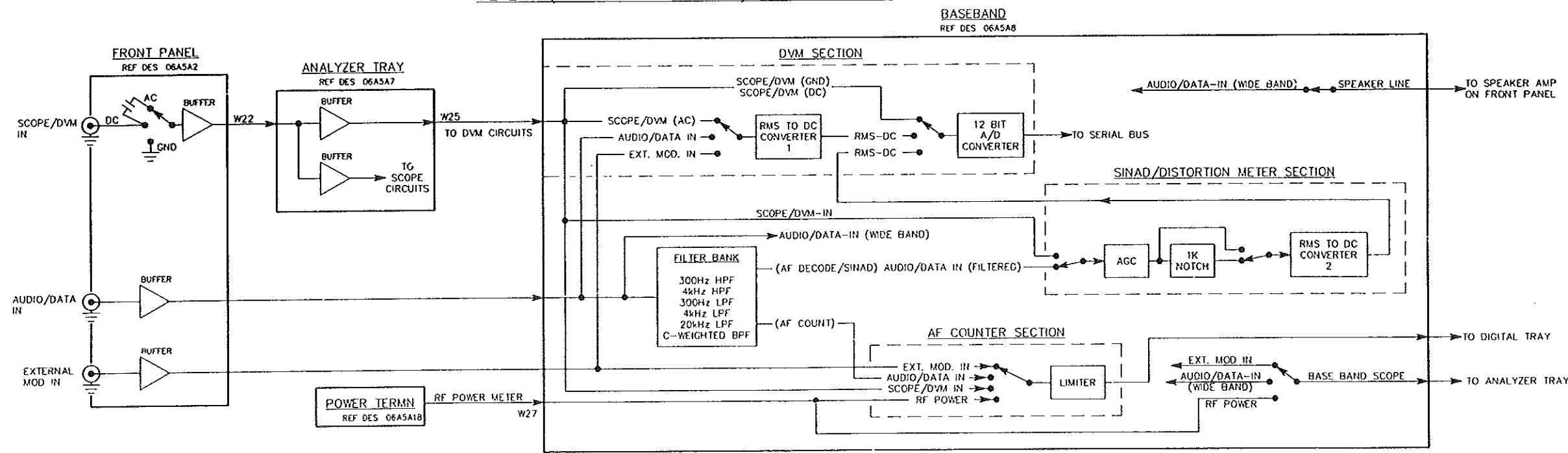


A B C D E F G H J K L

CONTROL BLOCK DIAGRAM

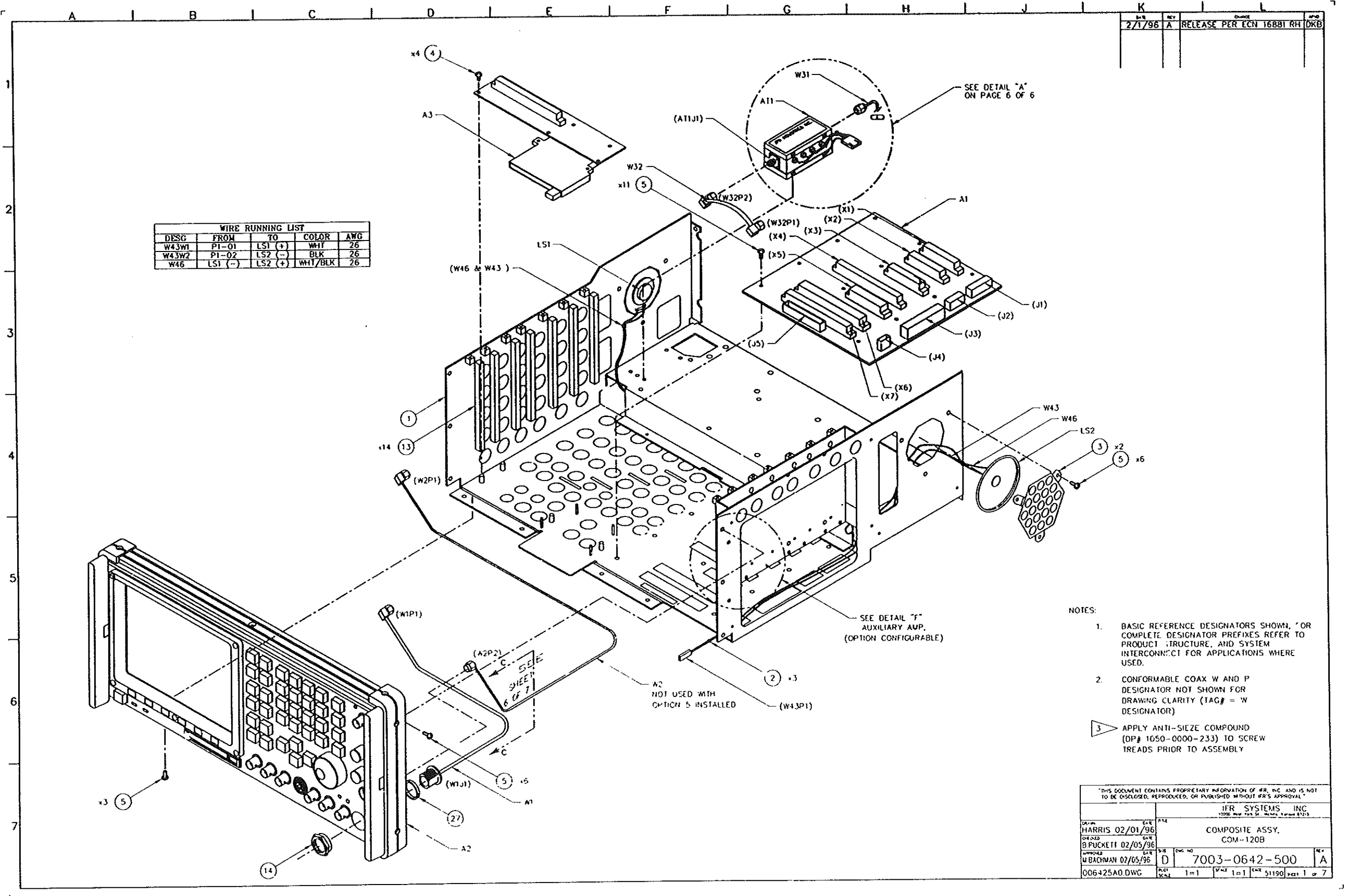


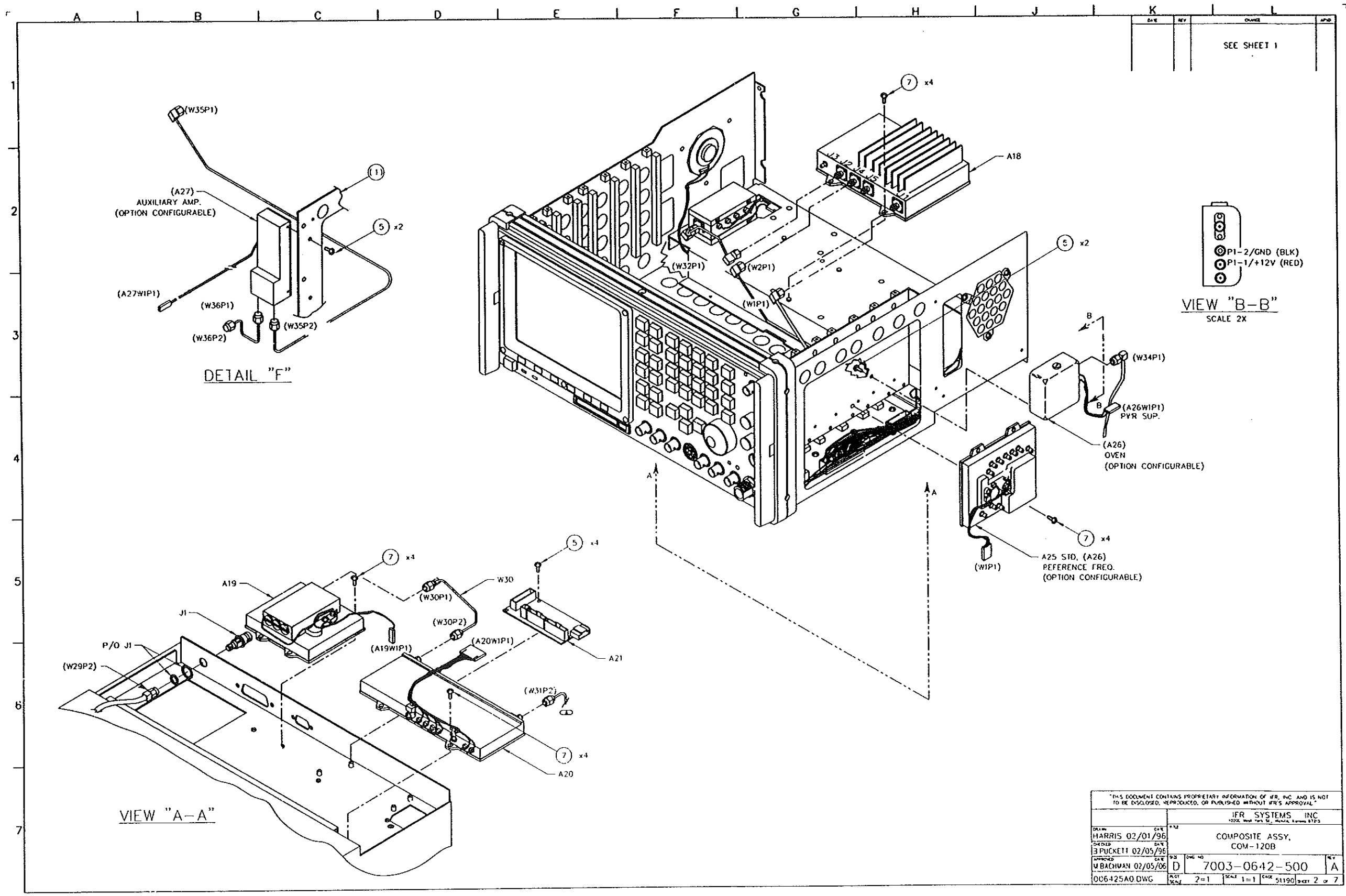
METERS (INDEPENDENT METERS) BLOCK DIAGRAM

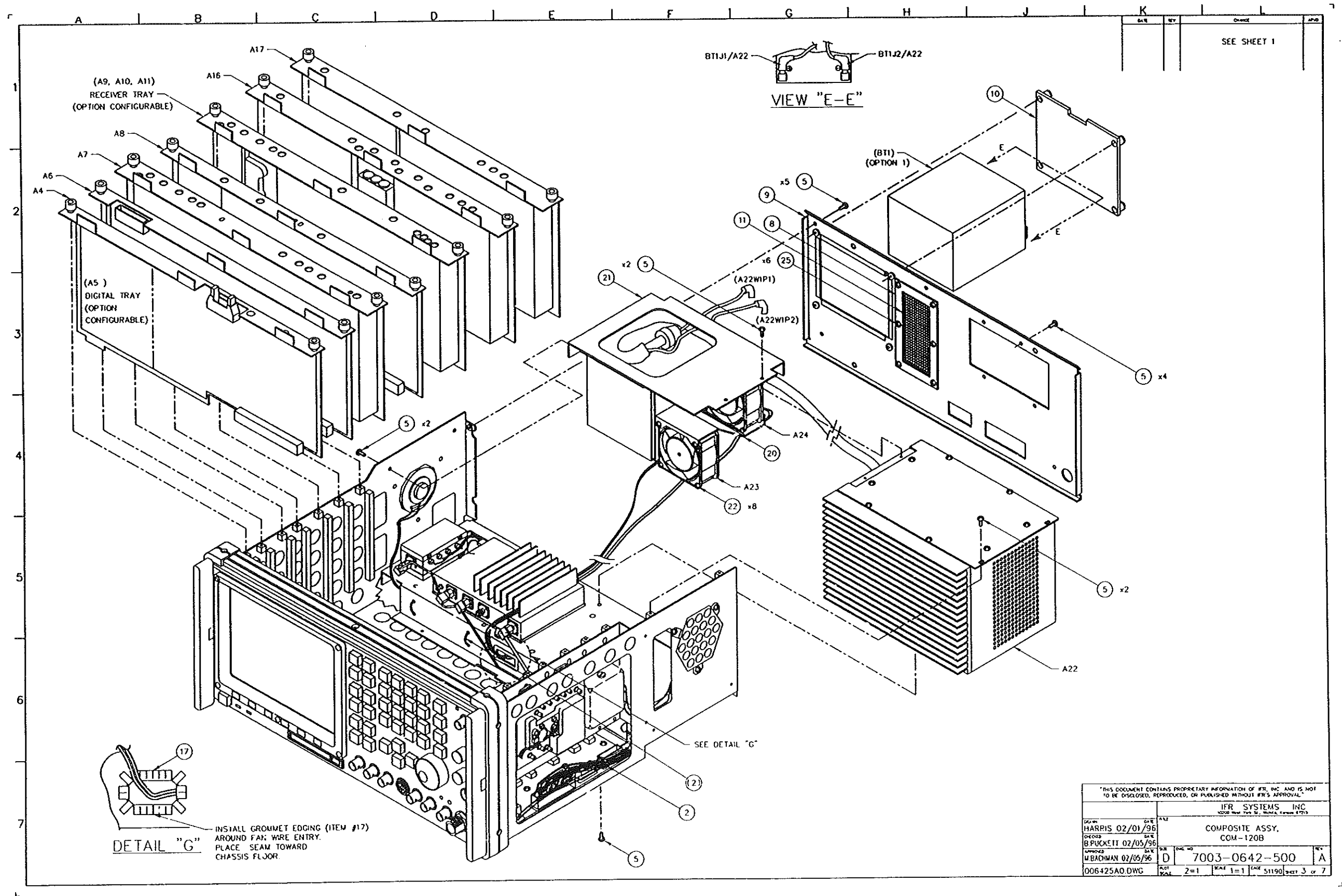


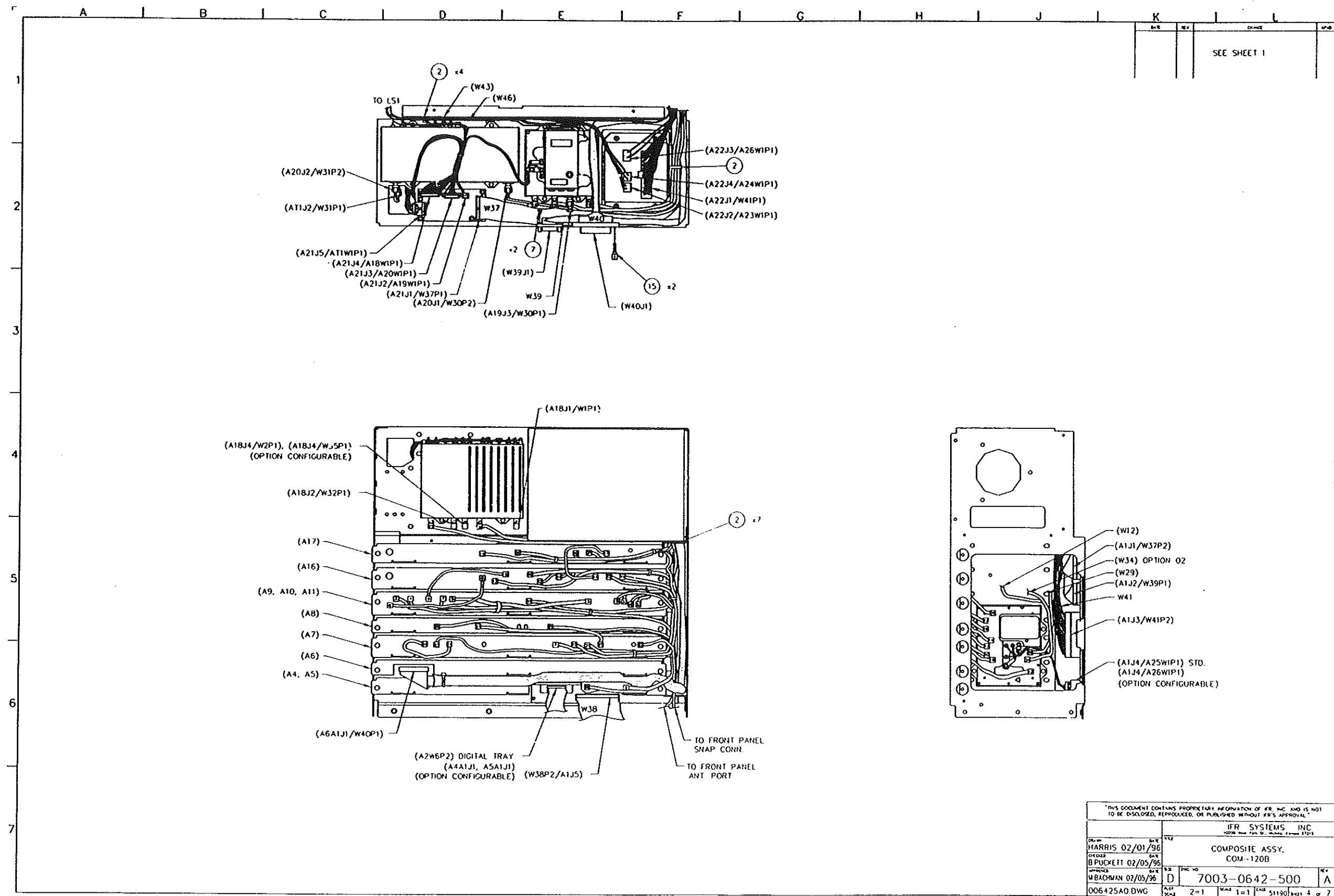
DATE	BY	OFFICE	APPROVED
2/1/96	A	RELEASE PER ECN 16881 RH	DKB

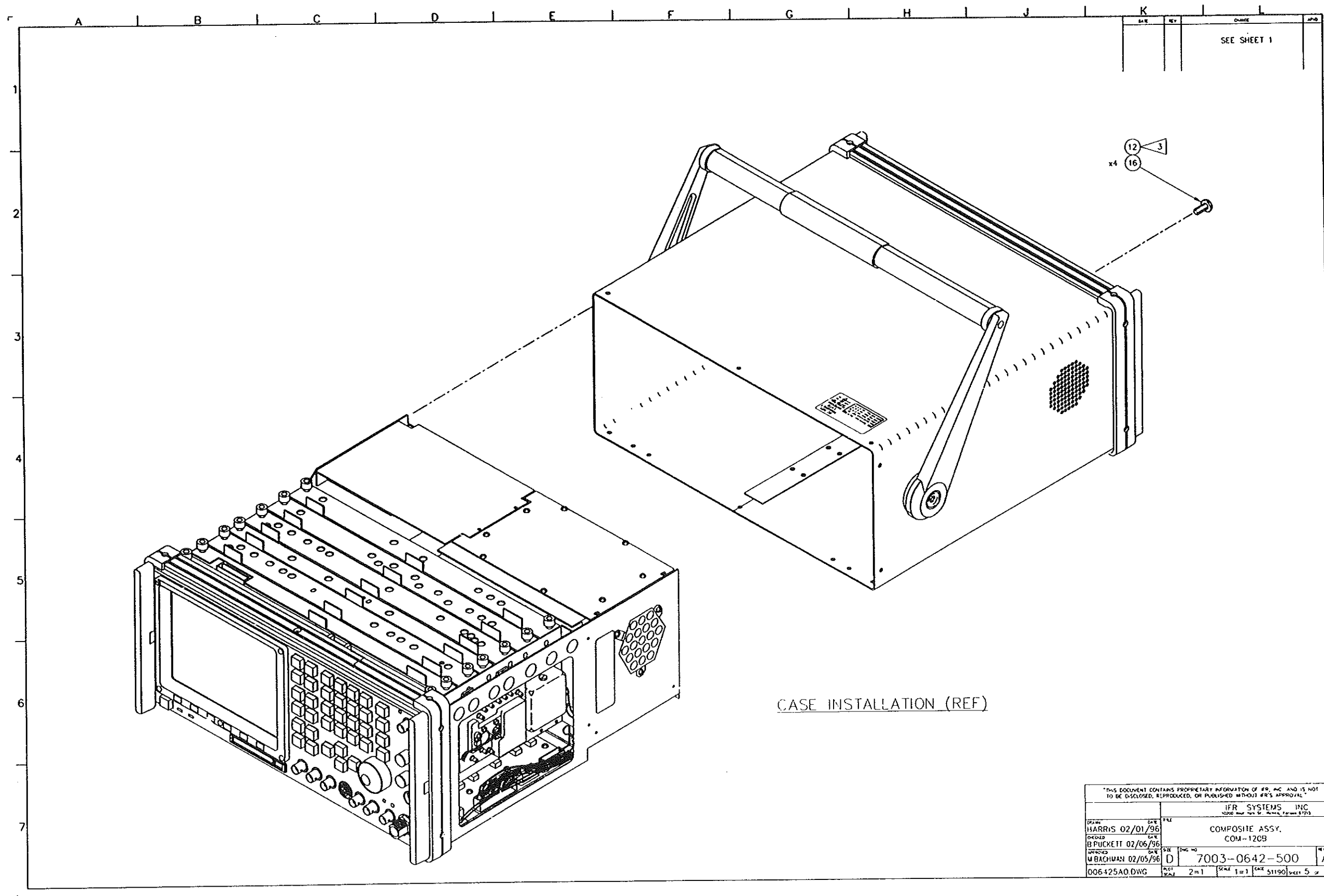
WIRE RUNNING LIST				
DESG	FROM	TO	COLOR	AWG
W43W1	P1-01	LS1 (+)	WH1	26
W43W2	P1-02	LS2 (-)	BLK	26
W46	LS1 (-)	LS2 (+)	WH1/BLK	26









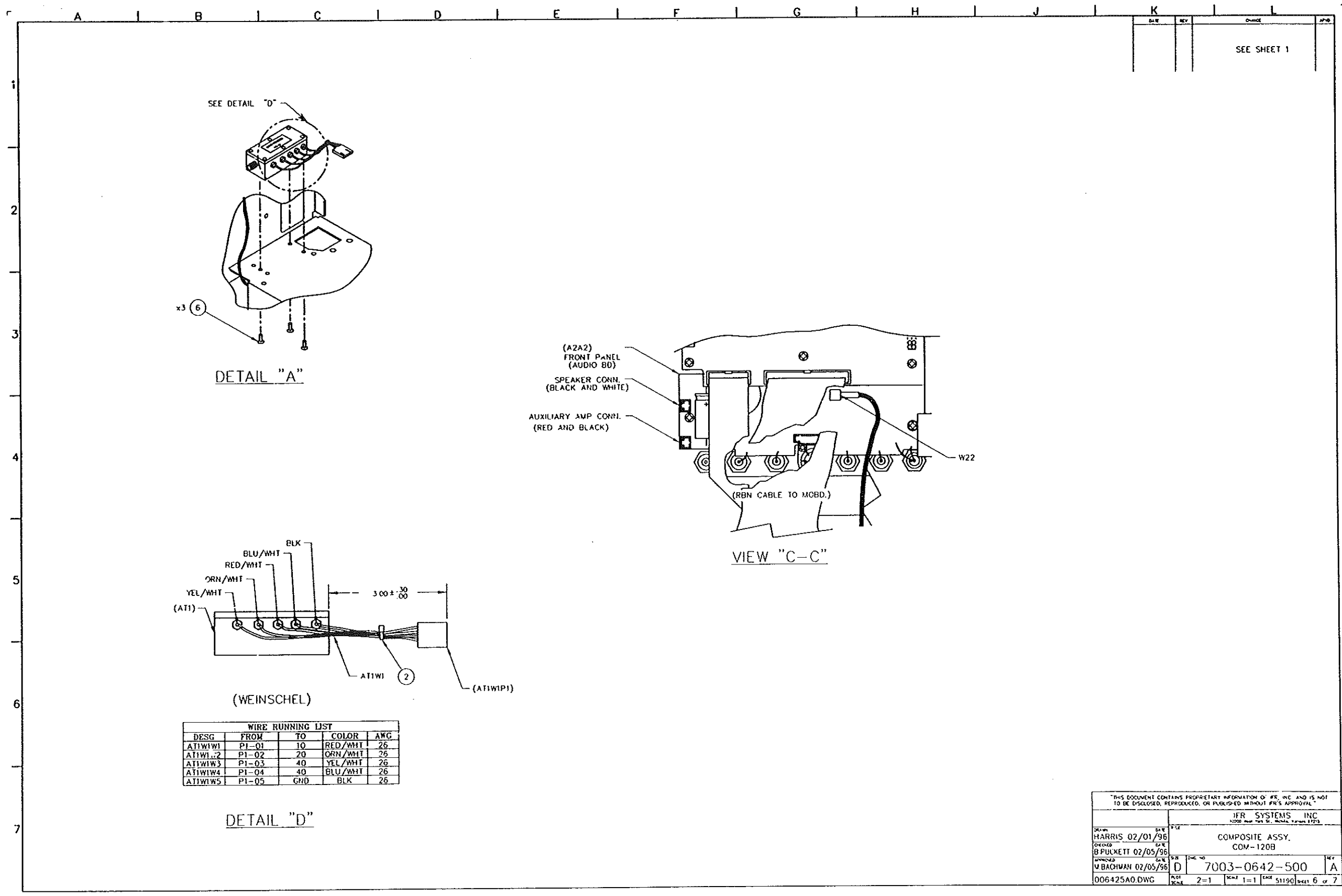


DATE	REV	CHANGE	APPROV

SEE SHEET 1

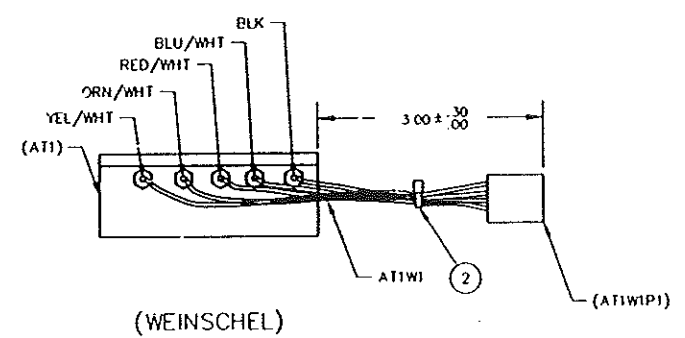
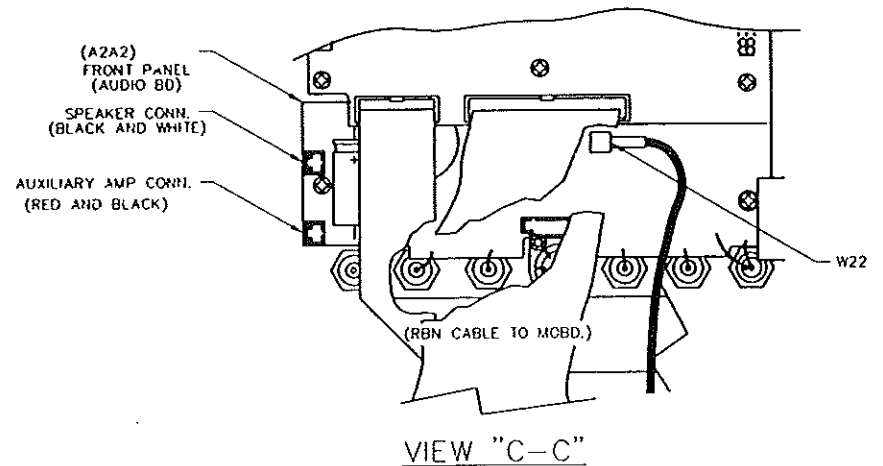
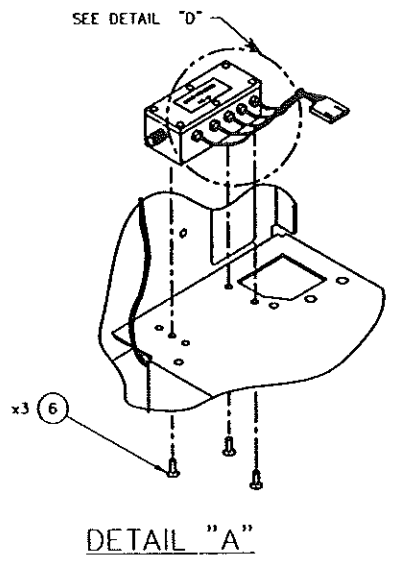
CASE INSTALLATION (REF)

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF IFR, INC. AND IS NOT TO BE DISCLOSED, REPRODUCED, OR PUBLISHED WITHOUT IFR'S APPROVAL.							
DRAWN HARRIS 02/01/96				IFR SYSTEMS, INC. 1000 West 10th St., Suite 100, Fort Worth, TX 76102			
CHECKED B. PUCKETT 02/06/96				COMPOSITE ASSY. COM-120B			
APPROVED M. BACHMAN 02/05/96				SIZE D	DWG NO. 7003-0642-500	REV. A	
006425A0.DWG		SCALE 2=1	SCALE 1=1	CAGE 51190	SHEET 5 OF 7		



REV	DATE	BY	CHKD

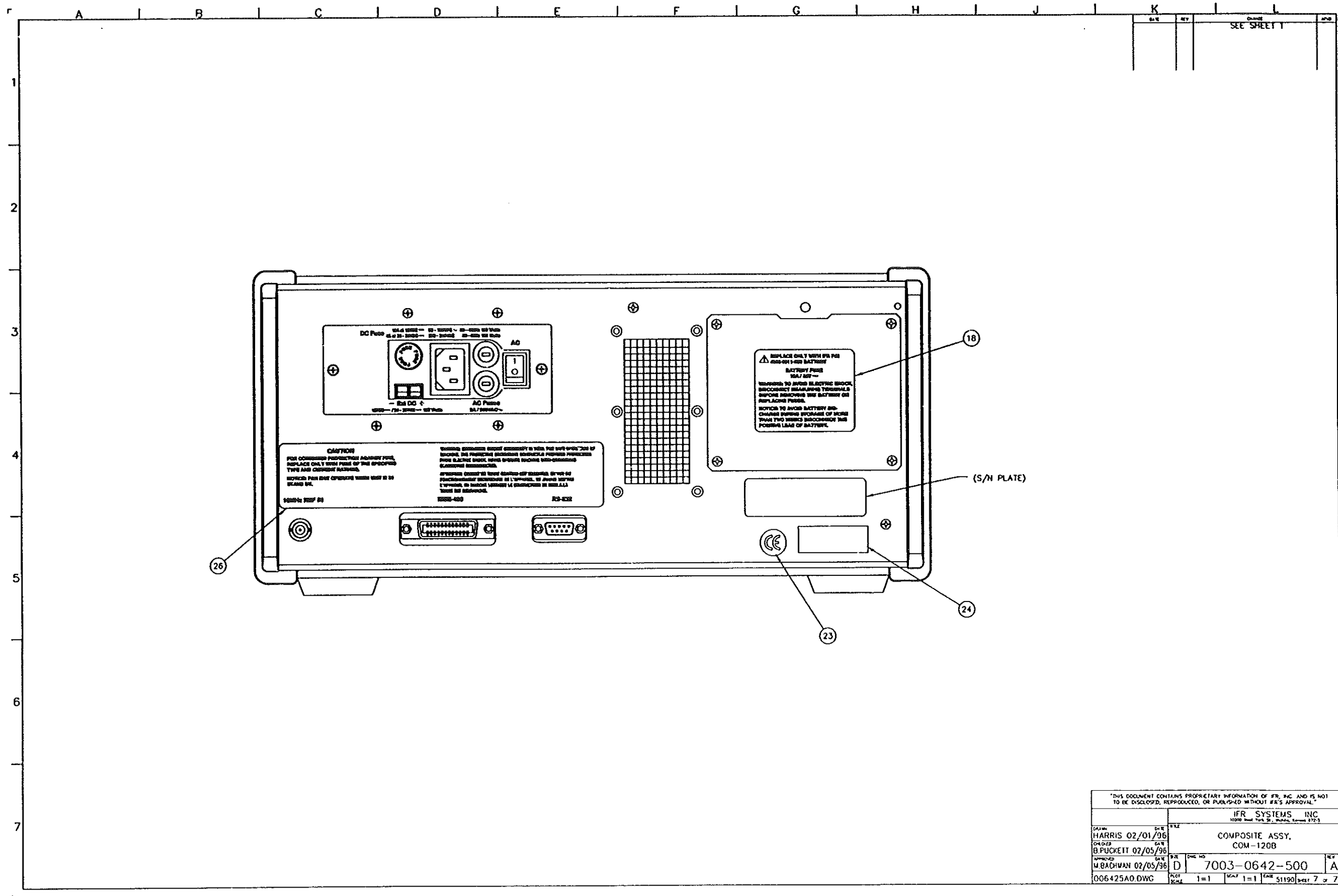
SEE SHEET 1



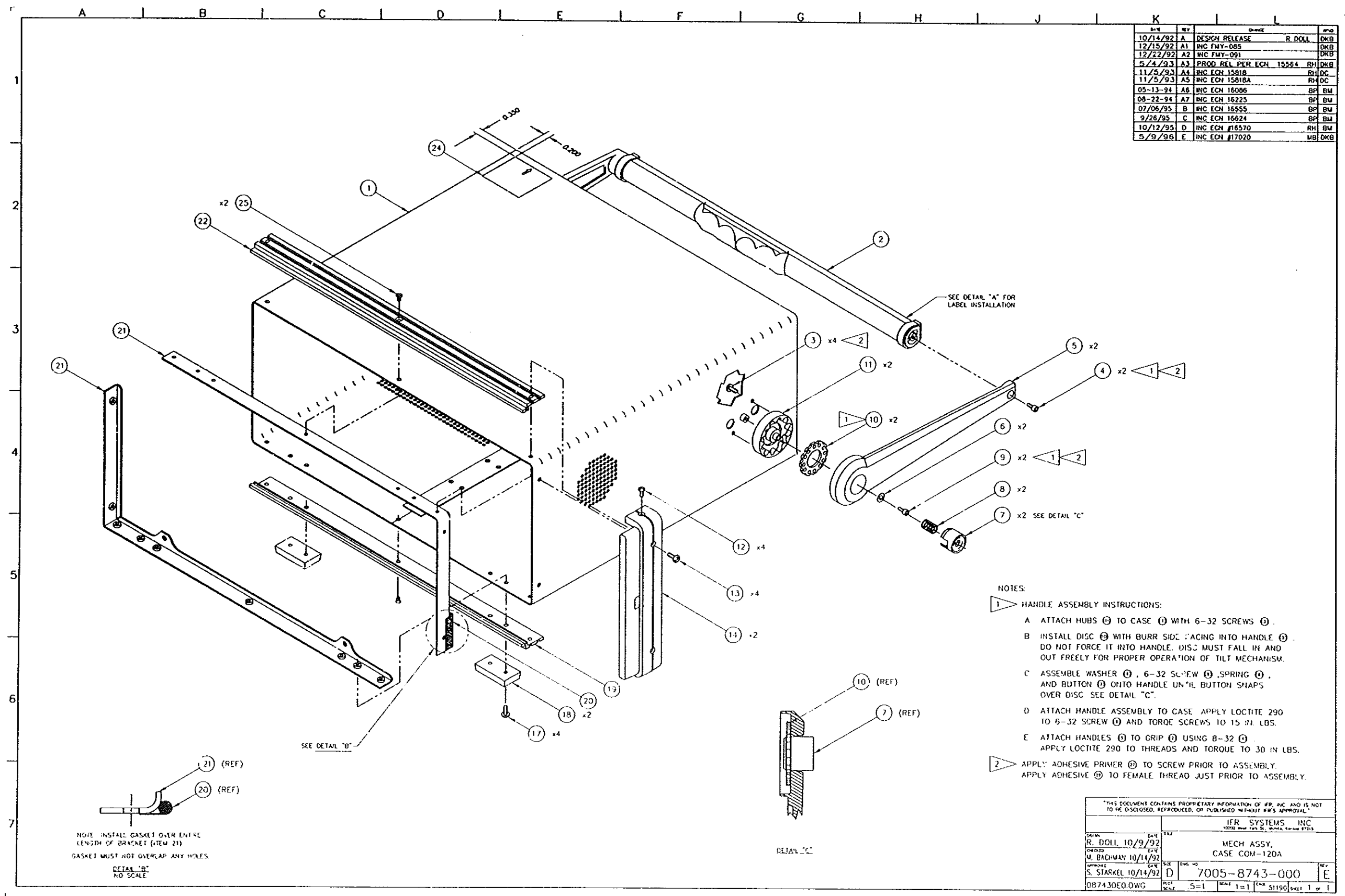
WIRE RUNNING LIST				
DESIG	FROM	TO	COLOR	AWG
AT1WI1	P1-01	10	RED/WHI	26
AT1WI2	P1-02	20	ORN/WHI	26
AT1WI3	P1-03	40	YEL/WHI	26
AT1WI4	P1-04	40	BLU/WHI	26
AT1WI5	P1-05	GND	BLK	26

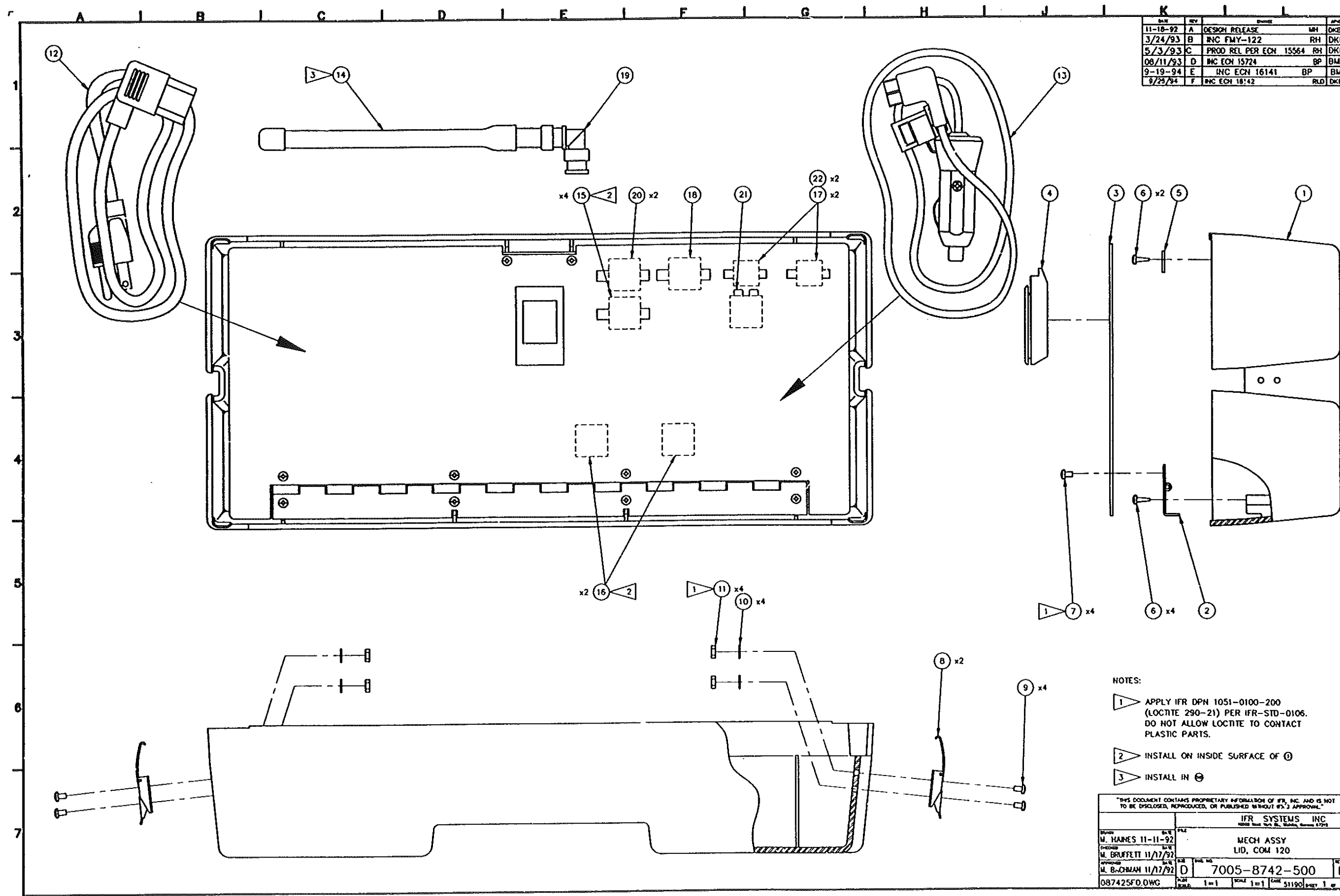
DETAIL "D"

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF IFR, INC. AND IS NOT TO BE DISCLOSED, REPRODUCED, OR PUBLISHED WITHOUT IFR'S APPROVAL.			
IFR SYSTEMS, INC. 1000 West York St., Milpitas, CA 95035			
DATE HARRIS 02/01/96	DATE 02/05/96	COMPOSITE ASSY. COM-120B	
DATE B. PULWETT 02/05/96	DATE 02/05/96	7003-0642-500	
DATE W. BACHMAN 02/05/96	DATE 02/05/96	A	
006425A0.DWG	2=1	1=1	SHEET 6 OF 7



THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF IFR, INC. AND IS NOT TO BE DISCLOSED, REPRODUCED, OR PUBLISHED WITHOUT IFR'S APPROVAL.			
IFR SYSTEMS, INC. 10000 Road Park Dr., Raleigh, North Carolina 27613			
DATE HARRIS 02/01/96	FILE	COMPOSITE ASSY. COM-1208	
ORDER B. PUCKETT 02/05/96	DATE		
APPROVED M. BACHMAN 02/05/96	DATE	7003-0642-500	REV A
006425A0.DWG	PLT SCALE	1=1	SCALE 1=1 51190 REV 7 of 7

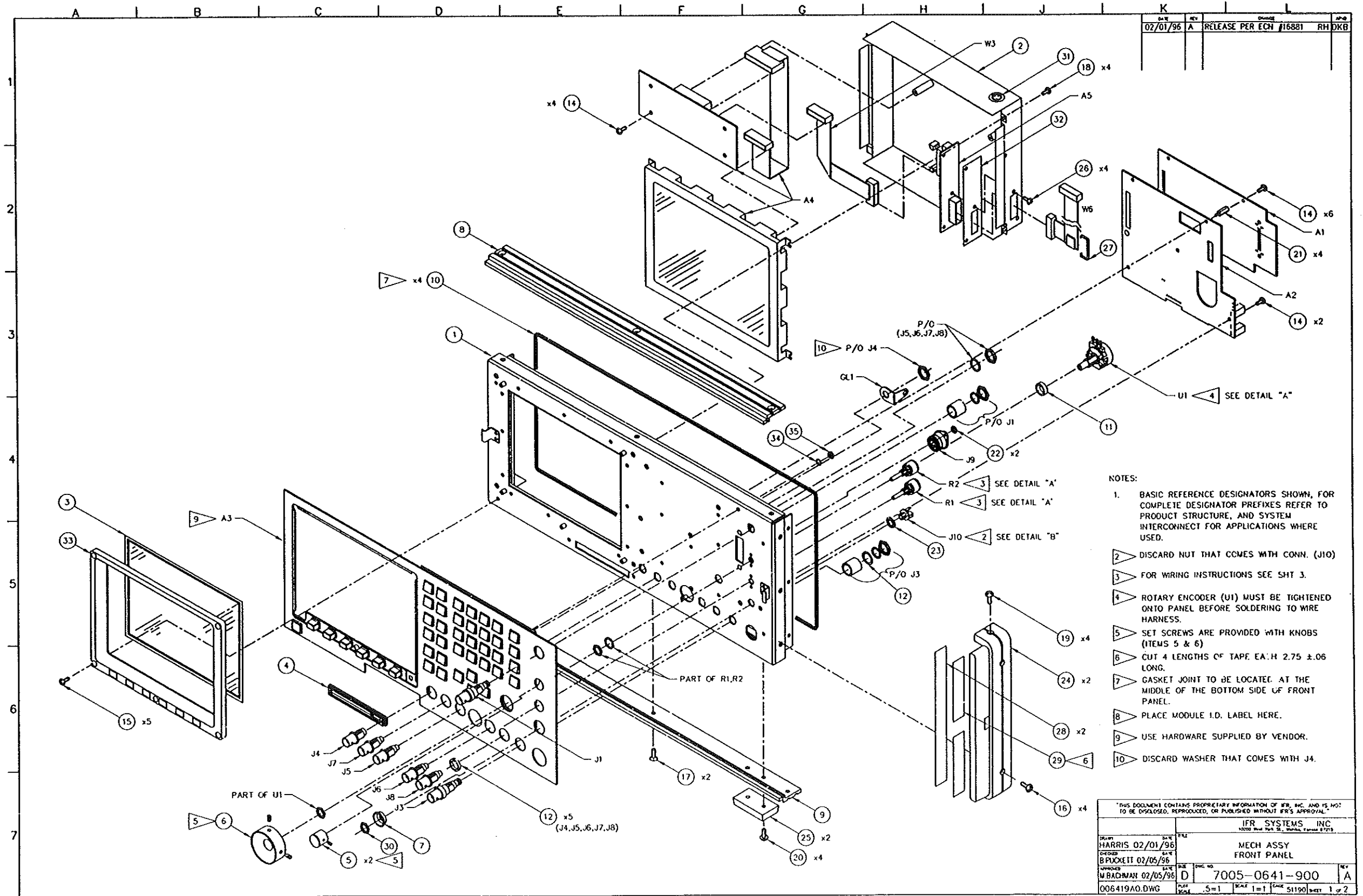




REV	DATE	BY	CHKD	APPD
11-18-92	A	DESIGN RELEASE	RM	DKB
3/24/93	B	INC FMY-122	RH	DKB
5/3/93	C	PROD REL PER ECH 15564	RH	DKB
08/11/93	D	INC ECH 15724	BP	BM
9-19-94	E	INC ECH 16141	BP	BM
9/25/94	F	INC ECH 18142	RLO	DKB

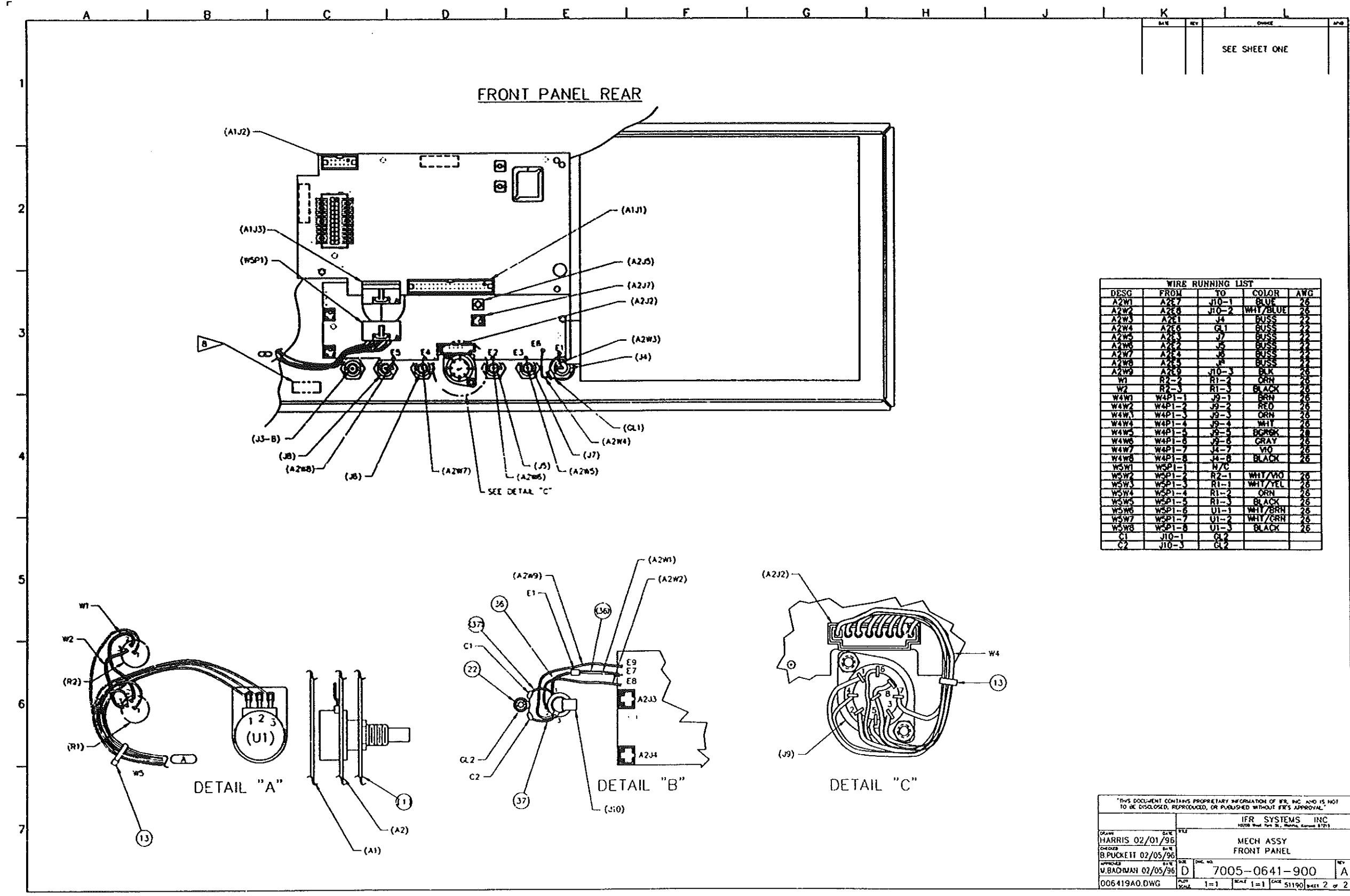
- NOTES:
- 1 APPLY IFR DPN 1051-0100-200 (LOCTITE 290-21) PER IFR-STD-0106. DO NOT ALLOW LOCTITE TO CONTACT PLASTIC PARTS.
 - 2 INSTALL ON INSIDE SURFACE OF 1
 - 3 INSTALL IN 1

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF IFR, INC. AND IS NOT TO BE DISCLOSED, REPRODUCED, OR PUBLISHED WITHOUT IFR'S APPROVAL.			
IFR SYSTEMS, INC. 10500 West 10th St., Suite 100, Denver, CO 80231			
W. HAINES 11-11-92 CHECKED M. BRUFFETT 11/17/92 APPROVED M. BACHMAN 11/17/92		MECH ASSY LID, COM 120 7005-8742-500 1 of 1	
087425F0.DWG		REV F	



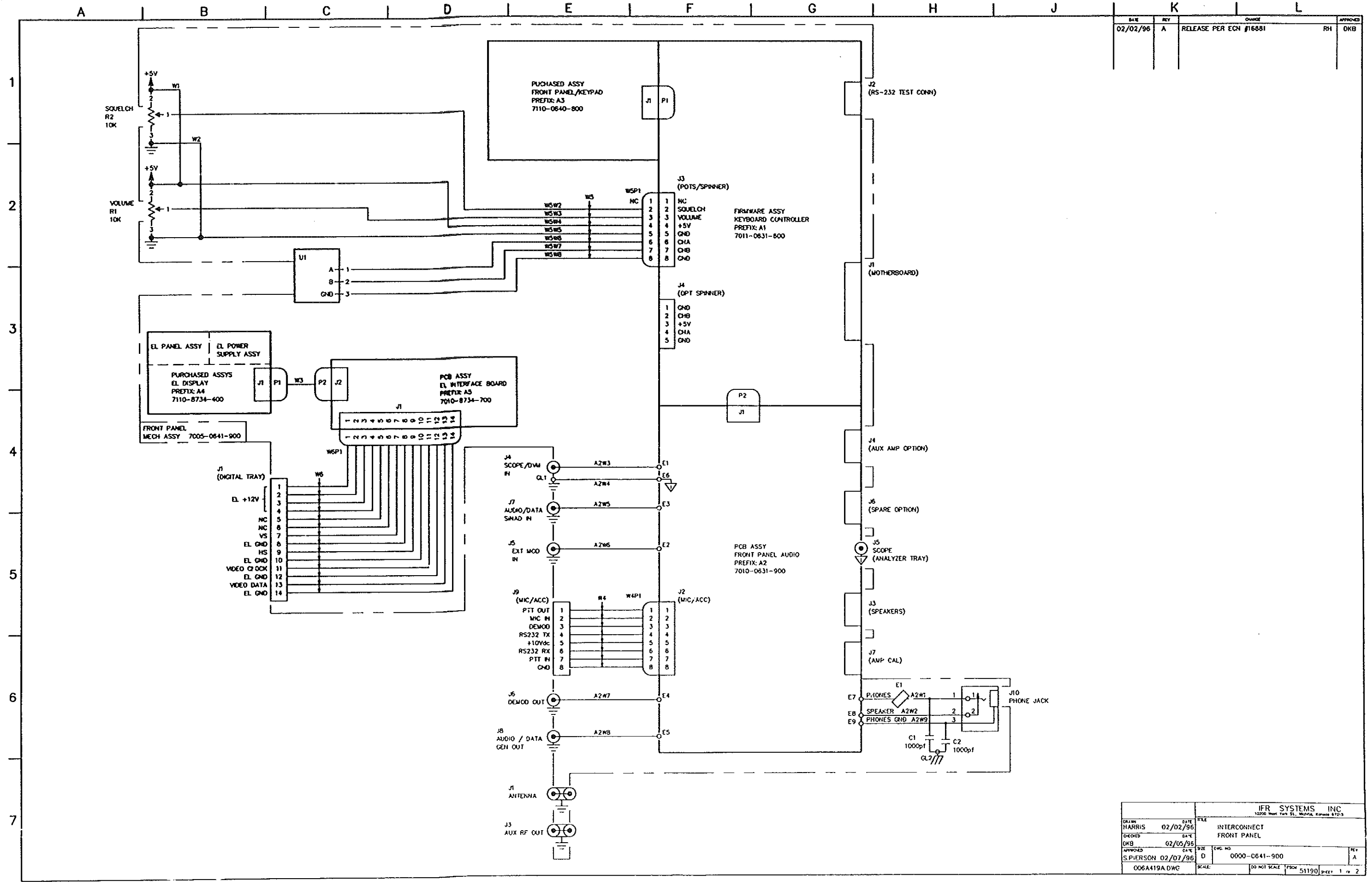
- NOTES:
1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 2. DISCARD NUT THAT COMES WITH CONN. (J10)
 3. FOR WIRING INSTRUCTIONS SEE SHT 3.
 4. ROTARY ENCODER (U1) MUST BE TIGHTENED ONTO PANEL BEFORE SOLDERING TO WIRE HARNESS.
 5. SET SCREWS ARE PROVIDED WITH KNOBS (ITEMS 5 & 6)
 6. CUT 4 LENGTHS OF TAPE EACH 2.75 ±.06 LONG.
 7. GASKET JOINT TO BE LOCATED AT THE MIDDLE OF THE BOTTOM SIDE OF FRONT PANEL.
 8. PLACE MODULE I.D. LABEL HERE.
 9. USE HARDWARE SUPPLIED BY VENDOR.
 10. DISCARD WASHER THAT COMES WITH J4.

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF IFR, INC. AND IS NOT TO BE DISCLOSED, REPRODUCED, OR PUBLISHED WITHOUT IFR'S APPROVAL.			
IFR SYSTEMS INC.		MECH ASSY FRONT PANEL	
DESIGNED BY HARRIS 02/01/96	DATE	REV	REV
DRAWN BY BUCKETT 02/05/96	DATE	REV	REV
APPROVED BY WADSWORTH 02/05/96	DATE	REV	REV
006419A0.DWG	SCALE 1:1	SHEET 1 OF 2	51190



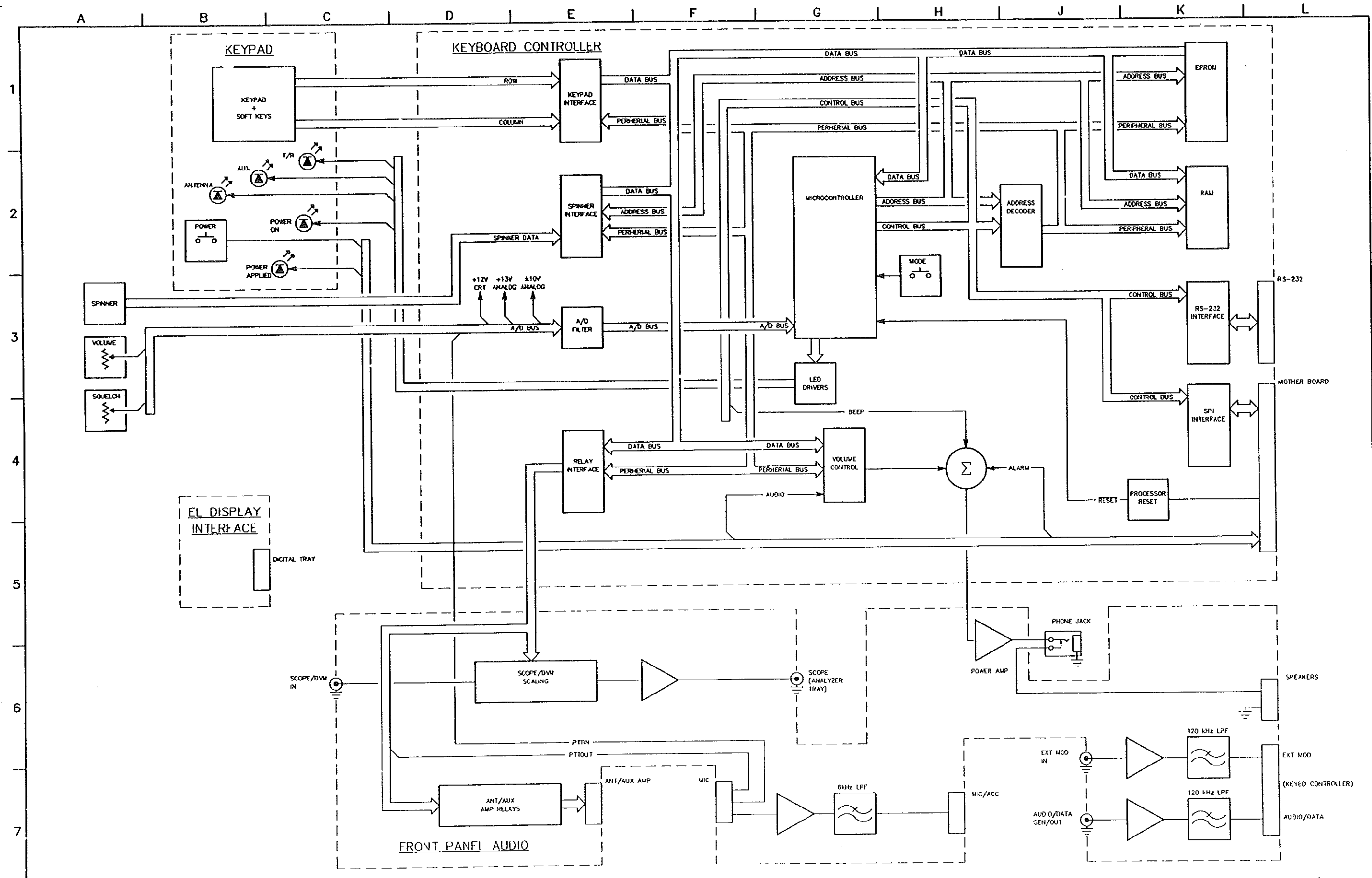
WIRE RUNNING LIST				
DESC	FROM	TO	COLOR	AWG
A2W1	A2E7	J10-1	BLUE	26
A2W2	A2E6	J10-2	WHI/BLUE	26
A2W3	A2E1	J4	BUSS	22
A2W4	A2E6	CL1	BUSS	22
A2W5	A2E3	J7	BUSS	22
A2W6	A2E2	J5	BUSS	22
A2W7	A2E4	J6	BUSS	22
A2W8	A2E5	J8	BUSS	22
A2W9	A2E9	J10-3	BLK	26
W1	R2-2	R1-2	ORN	26
W2	R2-3	R1-3	BLACK	26
W4W1	W4P1-1	J3-1	BRN	26
W4W2	W4P1-2	J3-2	RED	26
W4W3	W4P1-3	J3-3	ORN	26
W4W4	W4P1-4	J3-4	WHI	26
W4W5	W4P1-5	J3-5	BRN	26
W4W6	W4P1-6	J3-6	GRAY	26
W4W7	W4P1-7	J4-7	VIO	26
W4W8	W4P1-8	J4-8	BLACK	26
W5W1	W5P1-1	H/C		
W5W2	W5P1-2	R2-1	WHI/AD	26
W5W3	W5P1-3	R1-1	WHI/YEL	26
W5W4	W5P1-4	R1-2	ORN	26
W5W5	W5P1-5	R1-3	BLACK	26
W5W6	W5P1-6	U1-1	WHI/BRN	26
W5W7	W5P1-7	U1-2	WHI/GRN	26
W5W8	W5P1-8	U1-3	BLACK	26
C1	J10-1	CL2		
C2	J10-3	CL2		

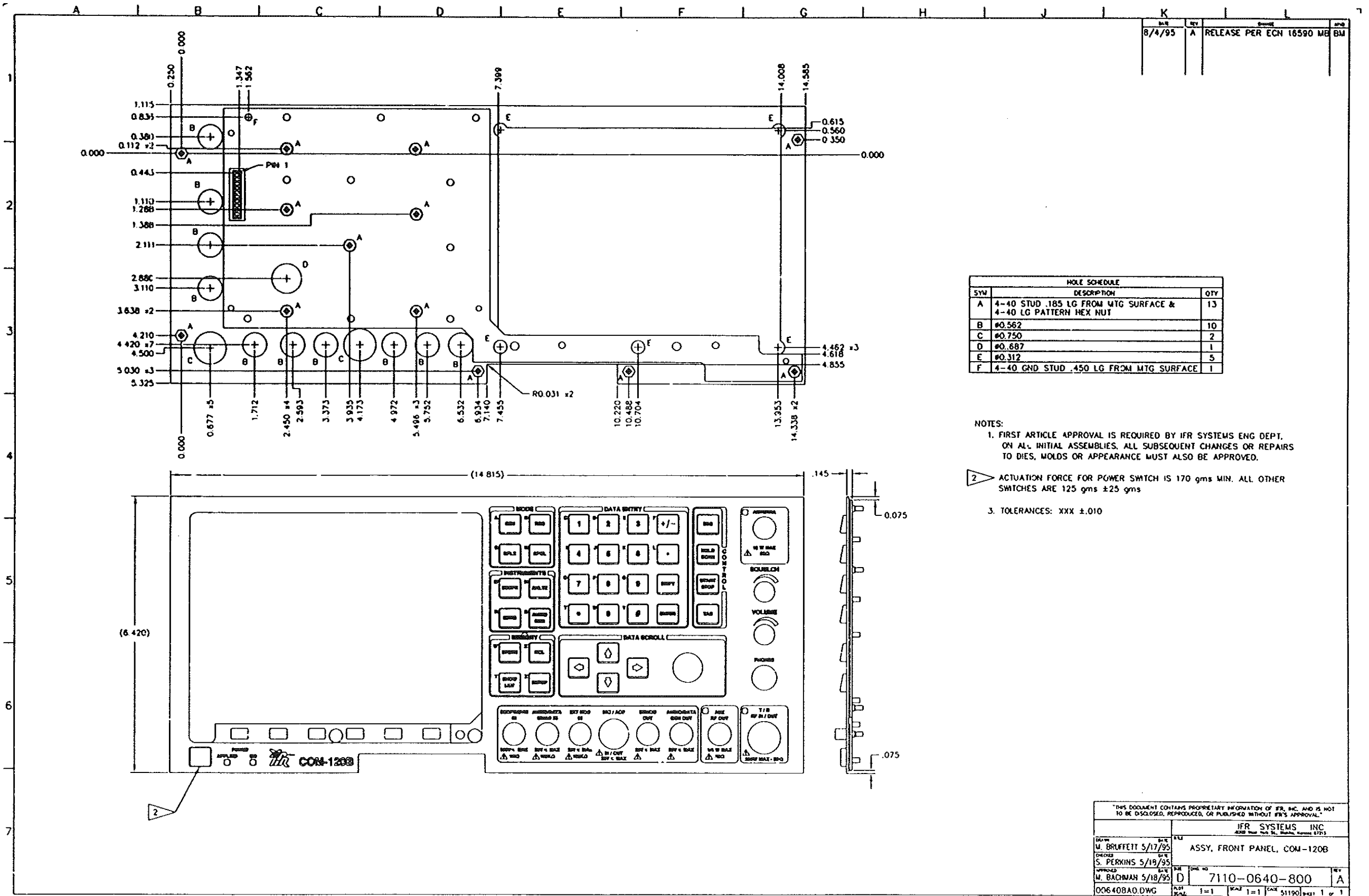
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF IFR, INC. AND IS NOT TO BE DISCLOSED, REPRODUCED, OR PUBLISHED WITHOUT IFR'S APPROVAL.				
IFR SYSTEMS, INC. 1000 West 1st St., Aurora, Kansas 67013				
DATE HARRIS 02/01/96	FILE	MECH ASSY FRONT PANEL		
CHECKED B. PUCKETT 02/05/96				
APPROVED M. BADMAN 02/05/96	SIZE D	QTY 1	PRICE 7005-0641-900	REV A
006419A0.DWG	PLT 1=1	REF 1=1	CAGE 51190	SHEET 2 OF 2

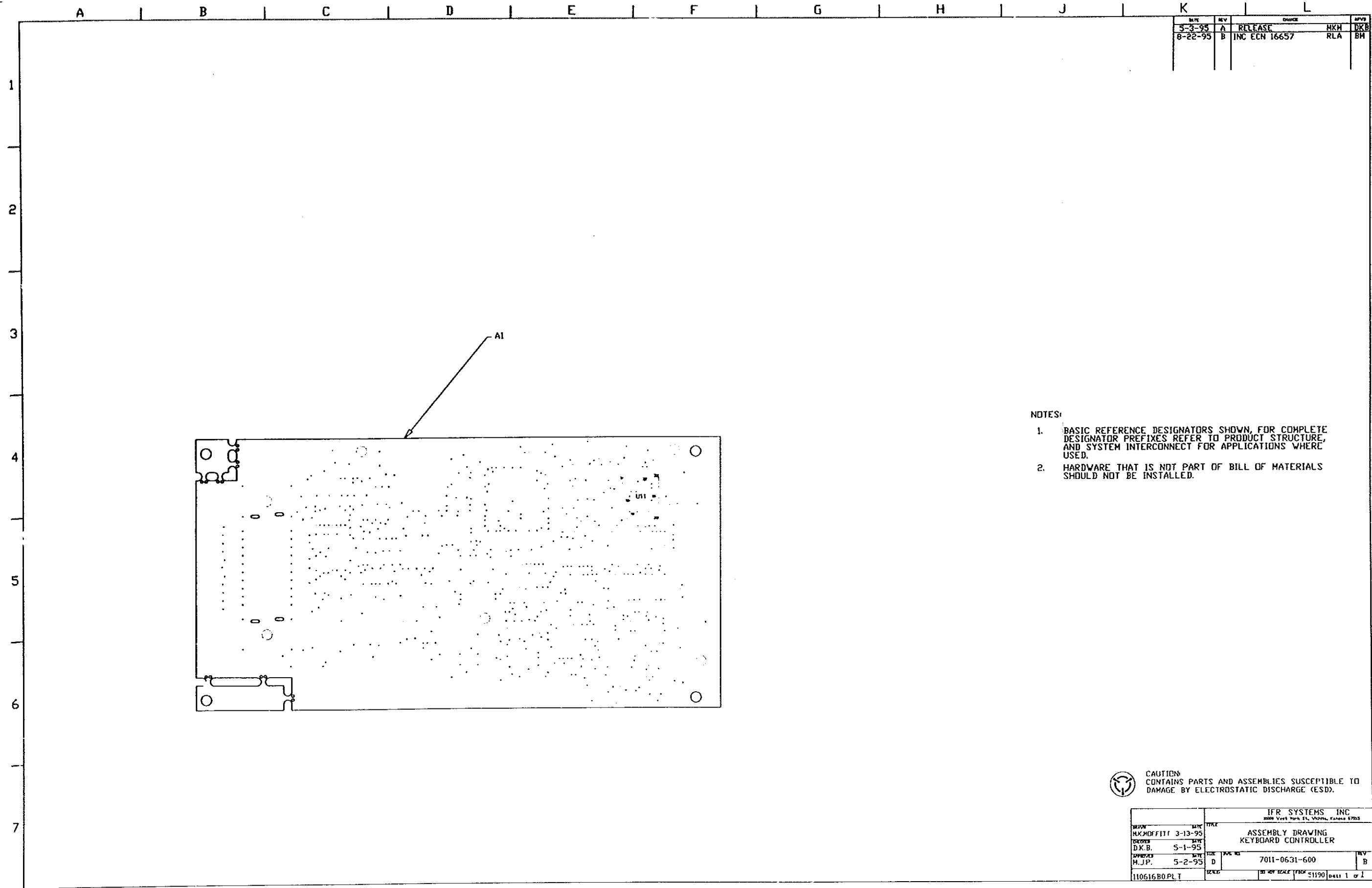


DATE	REV	CHANGE	APPROVED
02/02/96	A	RELEASE PER ECN #16881	RH OKB

IFR SYSTEMS, INC.			
12700 West Park St., Houston, Texas 77033			
DRN	DATE	FILE	REV
HARRIS	02/02/96	INTERCONNECT	
DESIGN	DATE	FRONT PANEL	
OKB	02/05/96		
APPROVED	DATE	CWG NO	REV
S. PIERSON	02/07/96	0000-0641-900	A
006A419A.DWG	SCALE	DO NOT SCALE FROM 51190	1 of 2

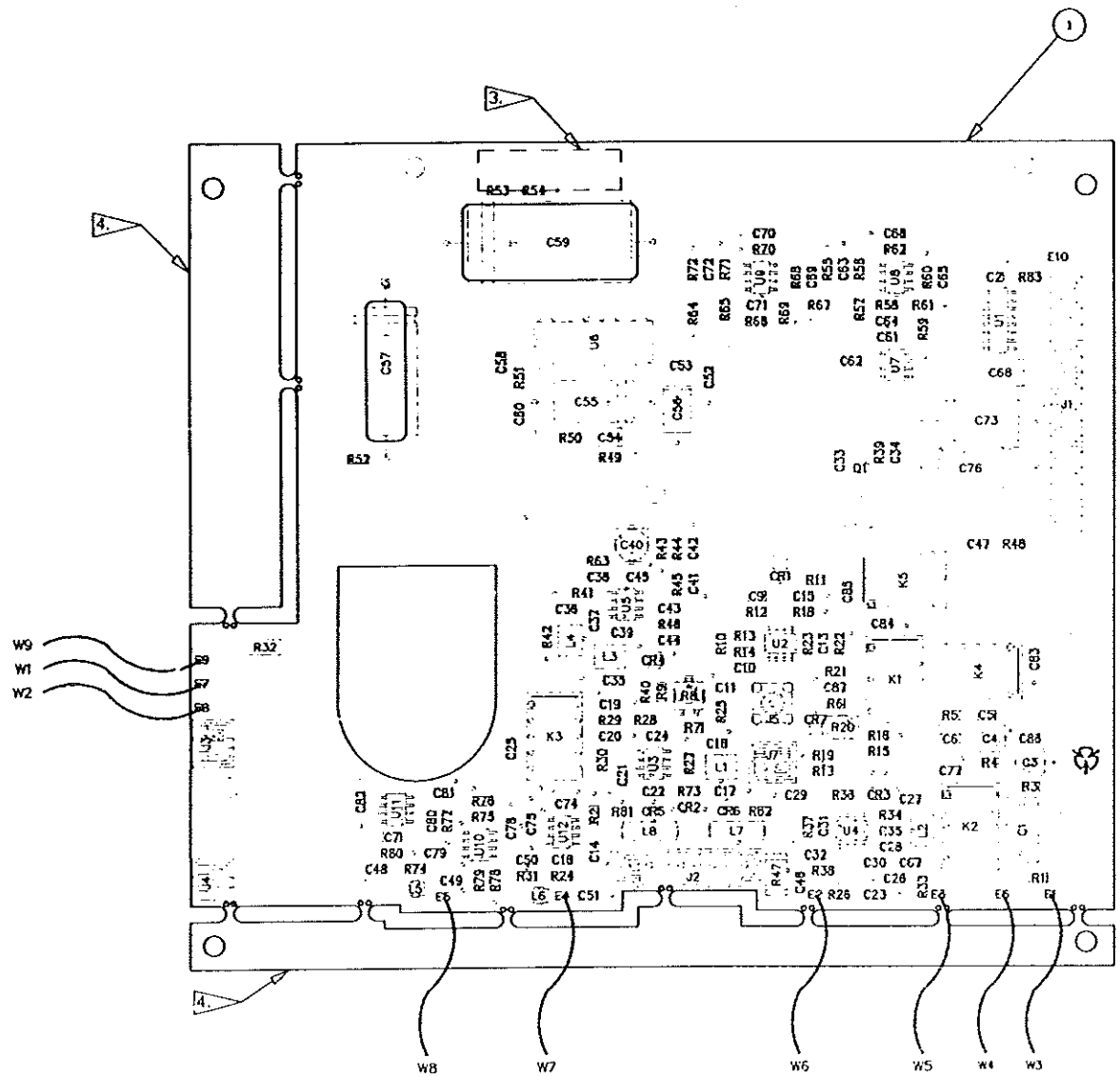






CAUTION
CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO
DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).

DATE	REV	CHANGE	APPROV
9-29-95	A	RELEASE PER ECH 16654 MKM	DKB



- NOTES:
1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 2. HARDWARE THAT IS NOT PART OF BILL OF MATERIALS SHOULD NOT BE INSTALLED.
 3. AFFIX MODULE IDENT LABEL HERE.
 4. TO BE REMOVED PRIOR TO MECH. ASSY.

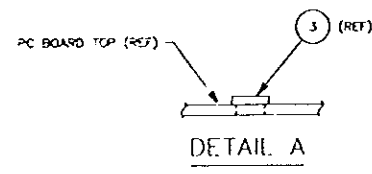
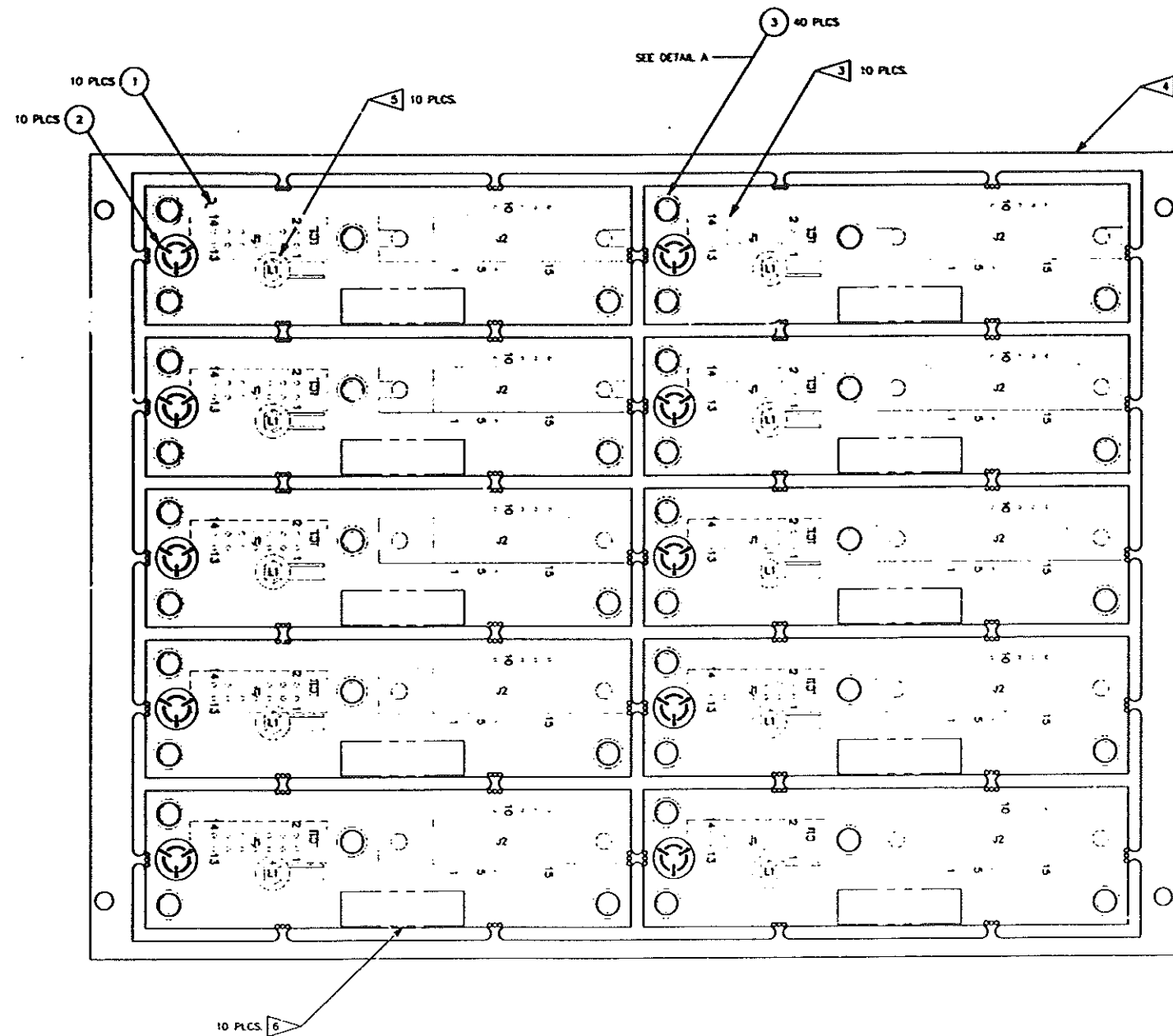
CAUTION: CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).

IFR SYSTEMS, INC.			
3000 West Park Dr., Suite 400, Dallas, TX 75243			
ASSEMBLY DRAWING			
AUDIO BOARD			
DATE	REV	DATE	REV
6-27-95		9-29-95	
D.K.B.		S.PIERSON	
100619A0PLT		7010-0631-900	A
SCALE: N.T.S.		SHEET 1 OF 1	

TOP VIEW

A B C D E F G H J K L

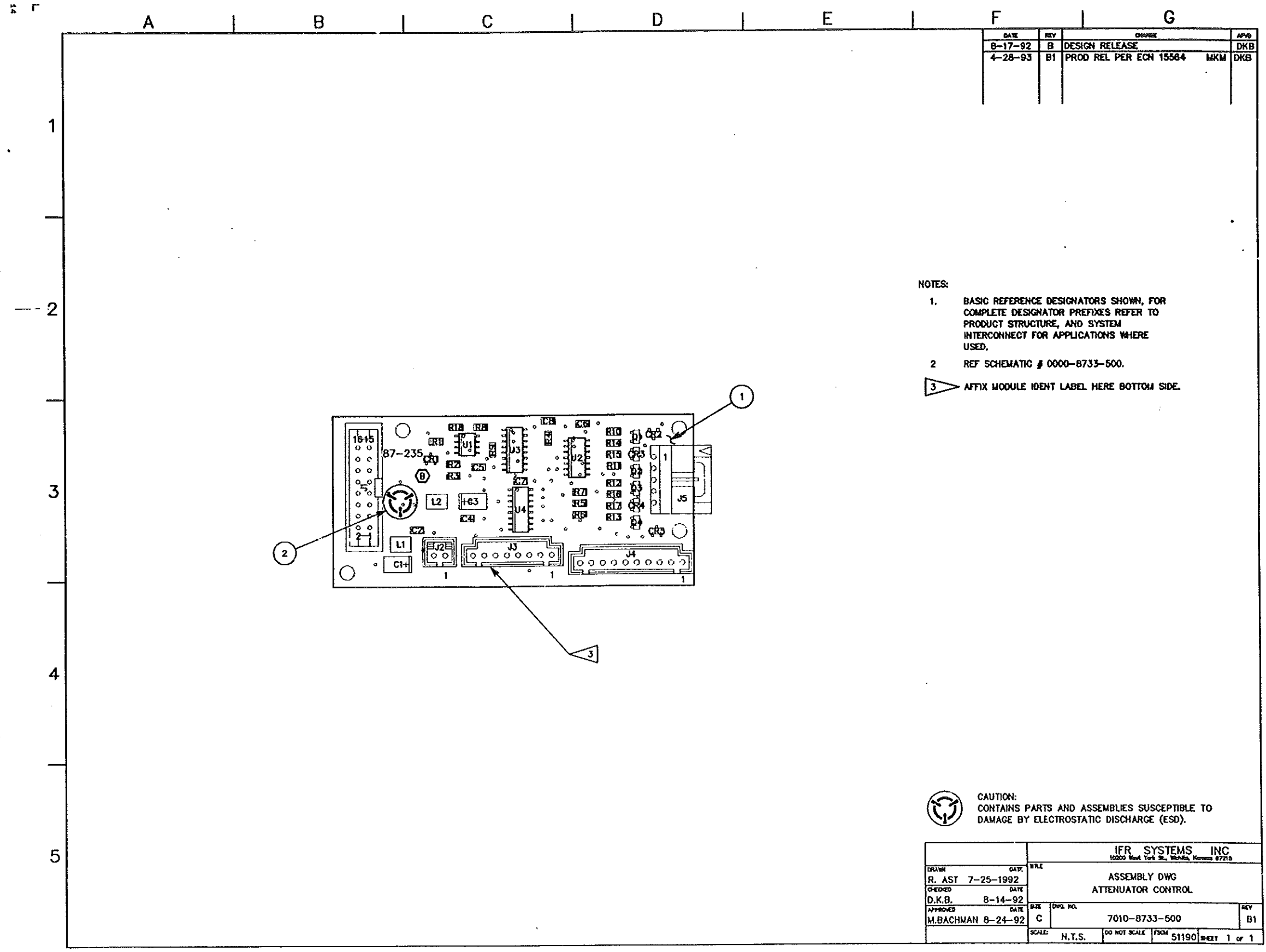
DATE	REV	DESCRIPTION	APPROVED
8-14-92	A	DESIGN RELEASE	UKB
4-29-93	A1	PROD REL PER ECH 15514	UKB DKB



- NOTES:
1. BASIC REFERENCE DESIGNATORS SHOWN FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 2. REF SCHEMATIC # 0000-8734-700.
 3. TO BE INSTALLED ON BOTTOM SIDE ONLY.
 4. TO BE REMOVED PRIOR TO MECH. ASSY.
 5. SECURE TO PC BO WITH PERMABOND (1050-0000-275).
 6. AFFIX MODULE IDENT LABEL HERE.

CAUTION:
CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO
DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).

IFR SYSTEMS, INC.			
10700 South Van Nuys Blvd., Van Nuys, CA 91411			
DATE	REV	FILE	
R. AST 4-30-92		ASSEMBLY DWG	
DATE	REV	FILE	
D.K.B. 8-14-92		EL DISPLAY INTERFACE	
DATE	REV	FILE	
APPROVED	DATE	FILE	
S. PERSON 8-14-92		7010-8734-700	A1
SCALE	N.T.S.	DO NOT SCALE FROM	51130



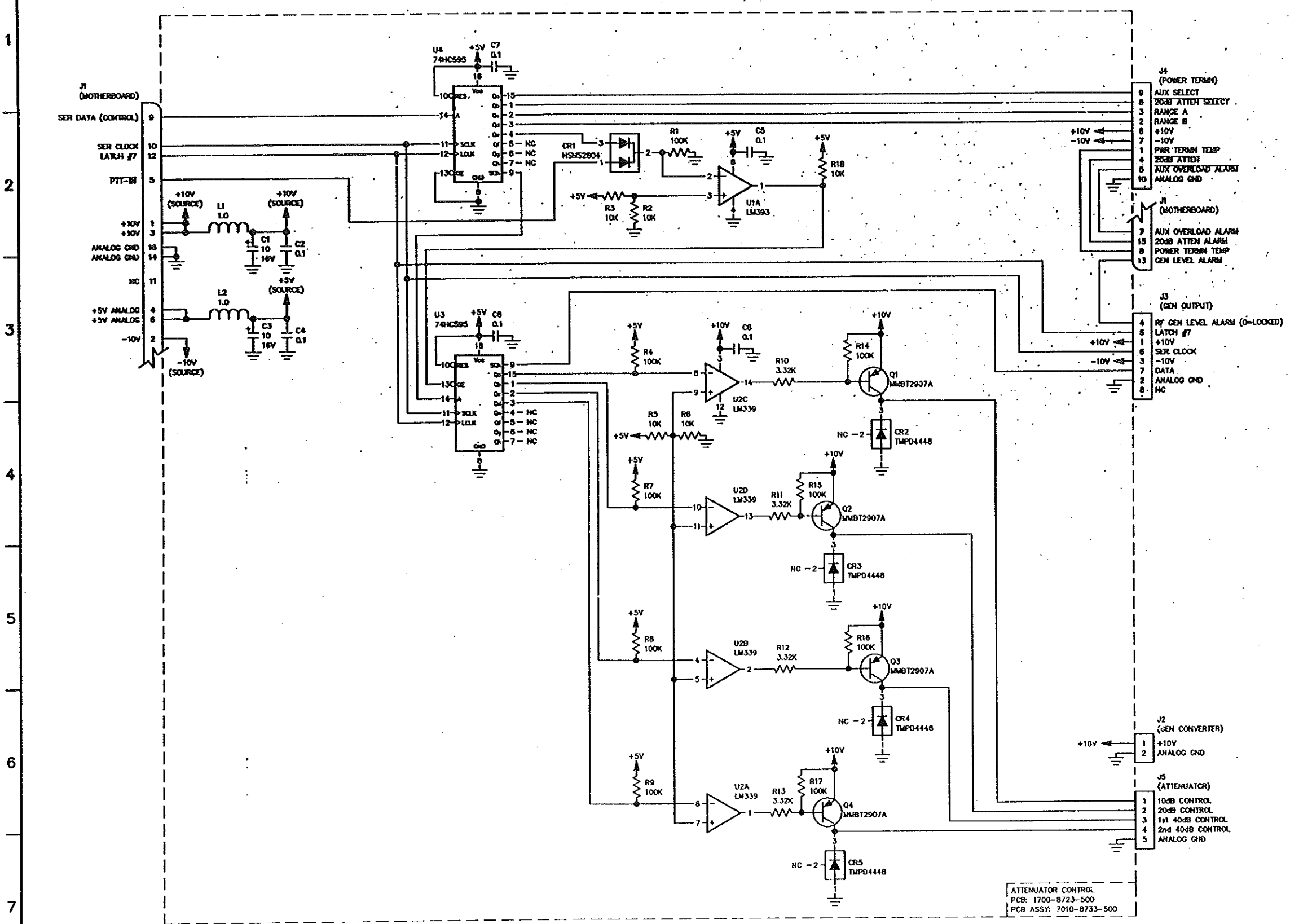
DATE	REV	CHANGE	APPROVED
8-17-92	B	DESIGN RELEASE	DKB
4-28-93	B1	PROD REL PER ECH 15564 MKM	DKB

- NOTES:
1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 2. REF SCHEMATIC # 0000-8733-500.
 3. AFFIX MODULE IDENT LABEL HERE BOTTOM SIDE.

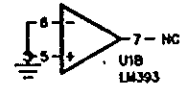
CAUTION:
CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO
DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).

IFR SYSTEMS, INC. 10200 West York St., Wichita, Kansas 67215			
DRAWN R. AST	DATE 7-25-1992	TITLE ASSEMBLY DWG ATTENUATOR CONTROL	
CHECKED D.K.B.	DATE 8-14-92	SIZE C	DWG. NO. 7010-8733-500
APPROVED M.BACHMAN	DATE 8-24-92	SCALE N.T.S.	REV B1
		DO NOT SCALE FROM	51190 SHEET 1 of 1

DATE	REV	DESCRIPTION	BY
8-17-92	B	DESIGN RELEASE	DKB
4-21-93	B1	PROD. REL. PER ECH #15564	JLM DKB



- NOTES:
(UNLESS OTHERWISE SPECIFIED)
1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 2. ALL RESISTORS ARE 1%, 1/8W.
 3. ALL RESISTANCE IS EXPRESSED IN OHMS. ALL CAPACITANCE IS EXPRESSED IN MICROFARADS. ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.
 4. HIGHEST REFERENCE DESIGNATIONS. C8, CR5, L2, Q4, R18, U4, J5.
 5. REFERENCE DESIGNATIONS NOT USED, NONE.
 6. FOR INTERCONNECT/BLOCK DIAGRAM SEE APPLICATIONS WHERE USED.
 7. IC FUNCTIONS NOT USED:

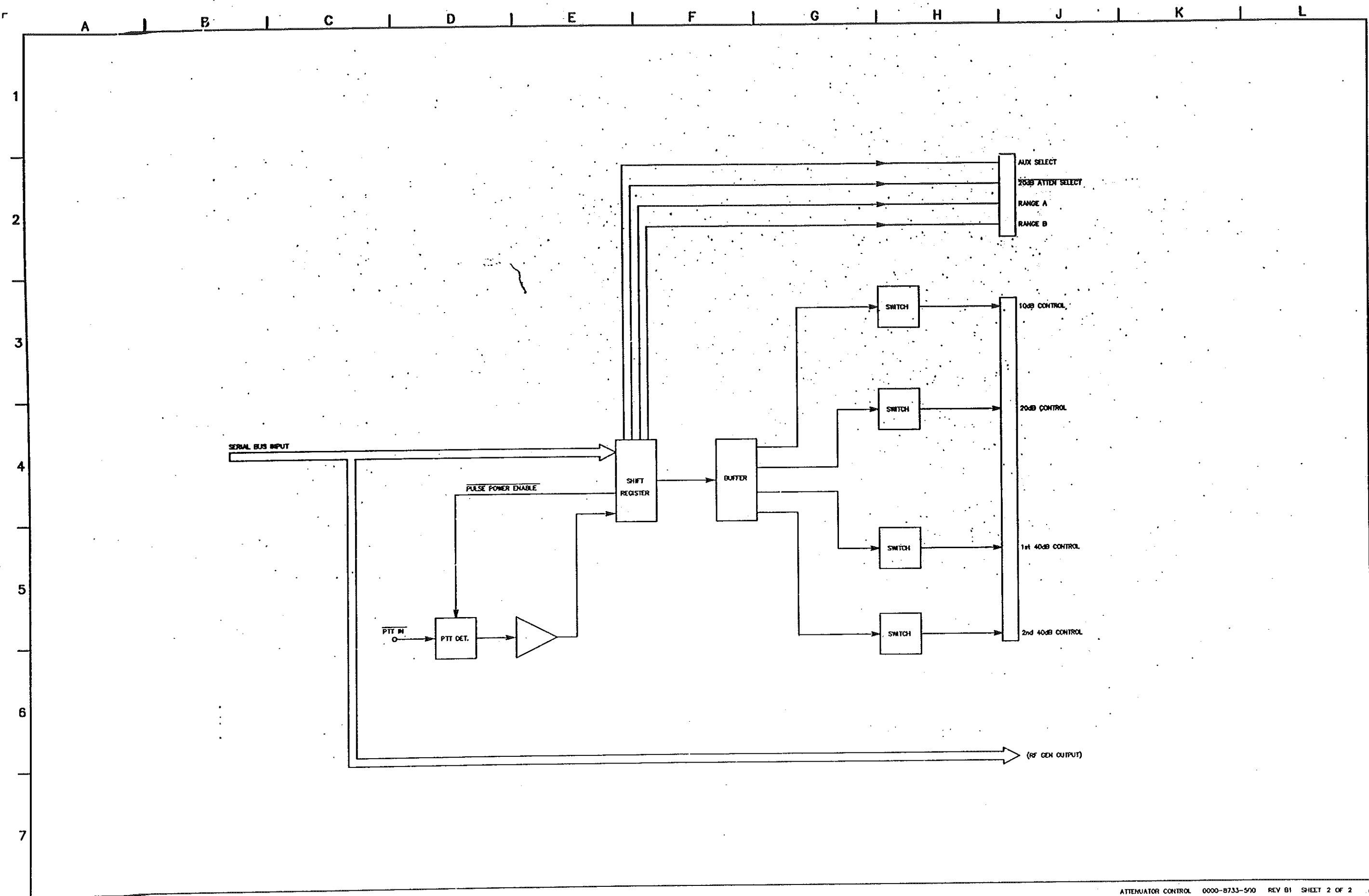


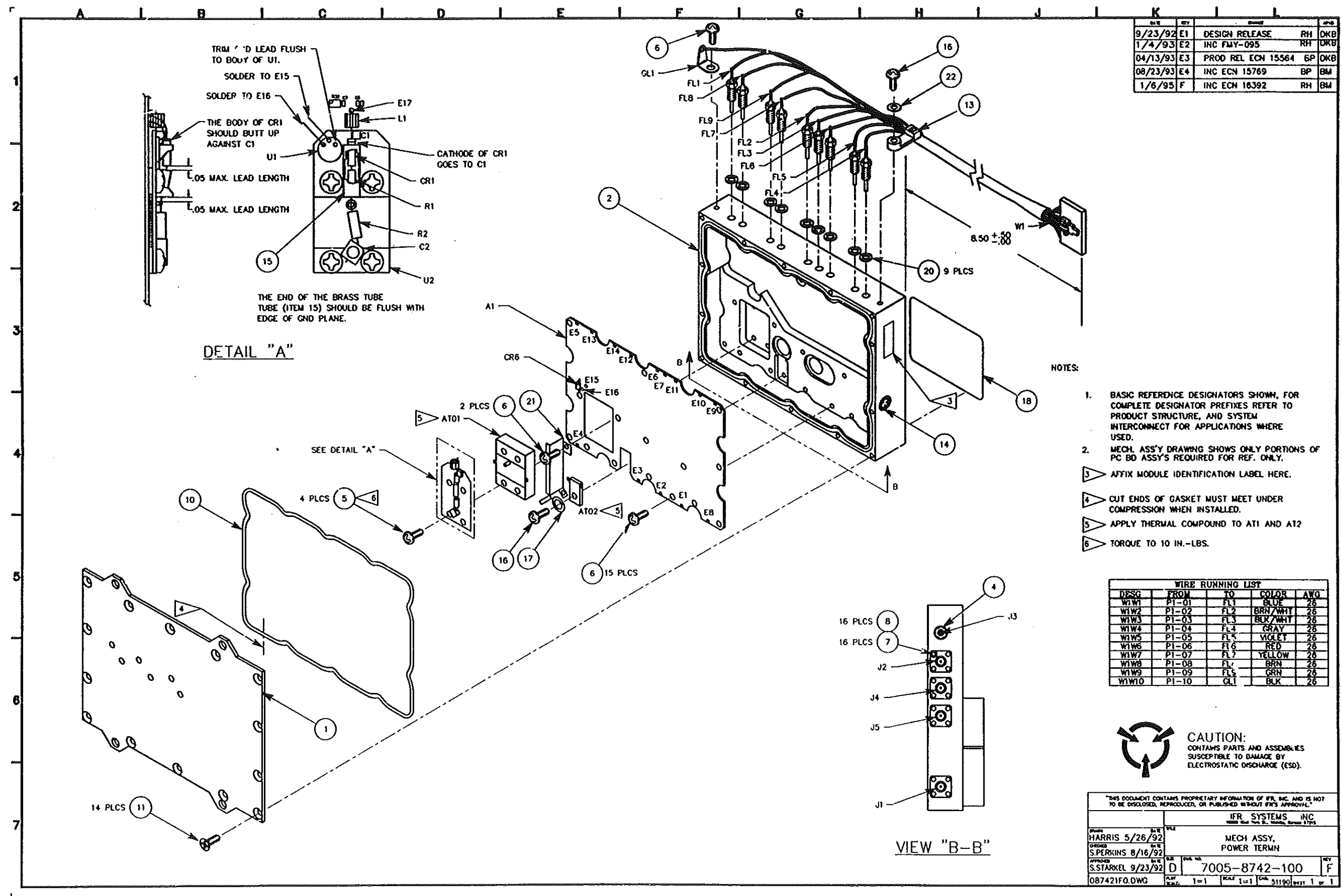
* - INDICATES PRINTED TRANSMISSION LINES OF OTHER THAN 50 OHMS IMPEDANCE WHICH CONSTITUTE CIRCUIT ELEMENTS. 50 OHM TRANSMISSION LINES ARE NOT SHOWN.



CAUTION:
CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).

IFR SYSTEMS, INC.			
DATE	REV	FILE	REV
7.0 TRAN	12/6/91	SCHEMATIC	1
DESIGN	6/11/91	ATTENUATOR CONTROL	
DESIGNED BY	8/17/92	DATE	REV
D. BROOKS	8/17/92	0	B1
APPROVED	8/17/92	0000-8733-500	
S. PIERSON	8/17/92		
SCALE		DO NOT SCALE	FROM 51190
PAGE		1 of 2	





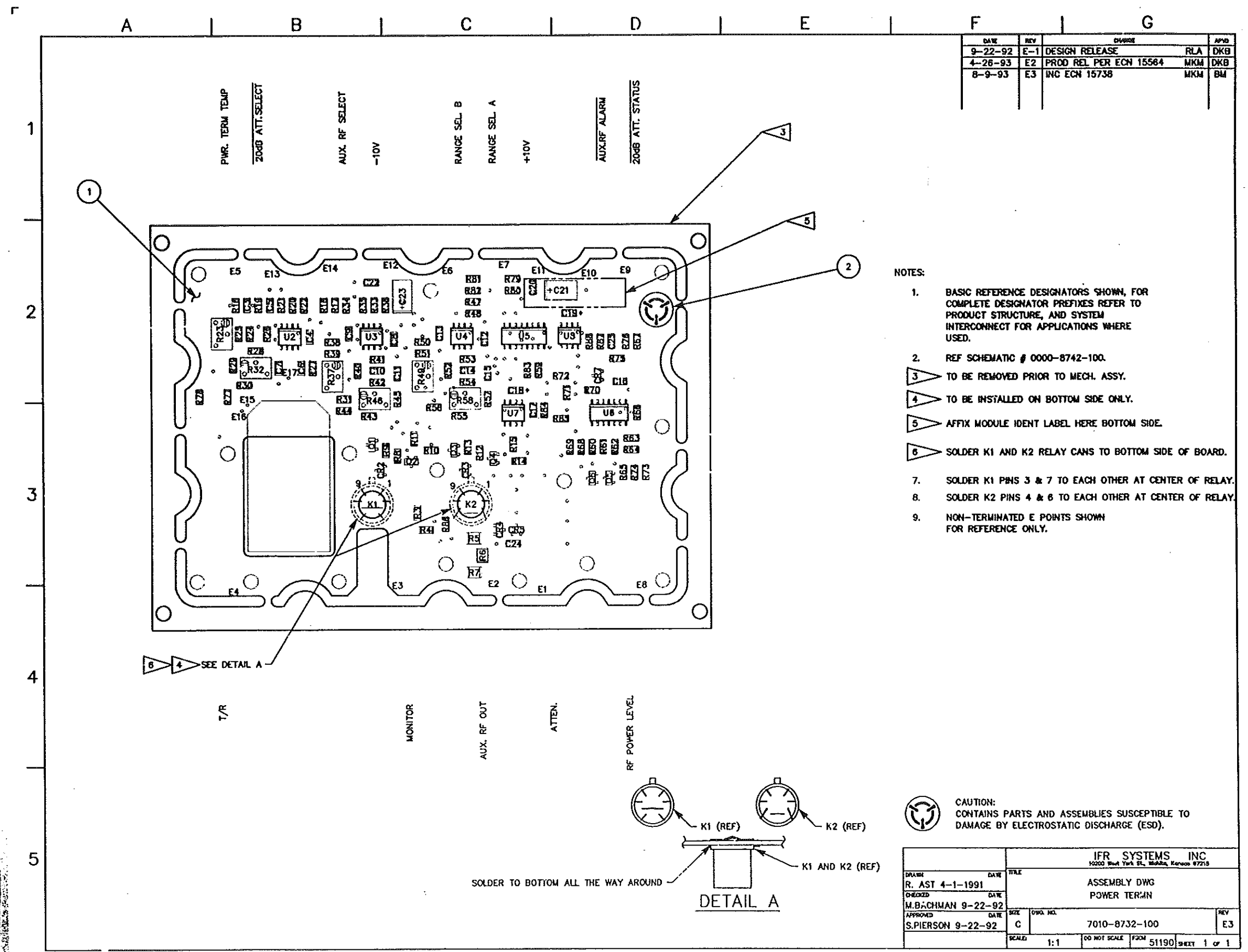
REV	DATE	DESCRIPTION	BY	CHKD
9/23/92	E1	DESIGN RELEASE	RH	DKB
1/4/93	E2	INC FMV-095	RH	DKB
04/13/93	E3	PROD REL ECH 15564	GP	OKB
08/23/93	E4	INC ECH 15769	GP	BM
1/6/95	F	INC ECH 16392	RH	BM

- NOTES:
1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 2. MECH. ASSY DRAWING SHOWS ONLY PORTIONS OF PCB ASSY'S REQUIRED FOR REF. ONLY.
 3. AFFIX MODULE IDENTIFICATION LABEL HERE.
 4. CUT ENDS OF GASKET MUST MEET UNDER COMPRESSION WHEN INSTALLED.
 5. APPLY THERMAL COMPOUND TO AT1 AND AT2
 6. TORQUE TO 10 IN.-LBS.

WIRE RUNNING LIST				
DESC	FROM	TO	COLOR	AWG
W1W1	P1-01	FL1	BLUE	26
W1W2	P1-02	FL2	BRN/WHY	26
W1W3	P1-03	FL3	BLK/WHY	26
W1W4	P1-04	FL4	GRAY	26
W1W5	P1-05	FL5	VIOLET	26
W1W6	P1-06	FL6	RED	26
W1W7	P1-07	FL7	YELLOW	26
W1W8	P1-08	FL8	BRN	26
W1W9	P1-09	FL9	GRN	26
W1W10	P1-10	GL1	BLK	26

 **CAUTION:**
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD).

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF IFR, INC. AND IS NOT TO BE DISCLOSED, REPRODUCED, OR PUBLISHED WITHOUT IFR'S APPROVAL.			
IFR SYSTEMS INC			
DATE	FILE	REV	
HARRIS 5/26/92		MECH ASSY, POWER TERM	
DESIGNED S. PERKINS 8/16/92			
APPROVED S. STARKEL 9/23/92	DATE	FILE NO.	REV
087421F0.DWG	1=1	7005-8742-100	F
SCALE	1=1	CAD	5/11/90



DATE	REV	CHANGES	APPROVED
9-22-92	E-1	DESIGN RELEASE	RLA DKB
4-26-93	E2	PROD REL PER ECN 15584	MKM DKB
8-9-93	E3	INC ECN 15738	MKM BM

IFR SYSTEMS, INC. 10200 Shawnee Road, Shawnee, Kansas 66218			
DRAWN R. AST 4-1-1991		TITLE ASSEMBLY DWG POWER TERM	
CHECKED M. BACHMAN 9-22-92	DATE 9-22-92	SIZE C	DWG. NO. 7010-8732-100
APPROVED S. PIERSON 9-22-92	DATE 9-22-92	SCALE 1:1	REV E3
DO NOT SCALE		FROM 51190 SHEET 1 OF 1	

										W		X	
DATE		REV		CHANGE		APPROVED							
9-23-92		E		DESIGN RELEASE		J.L.M.		DKB					
DATE		REV		CHANGE		APPROVED							
4-22-93		E1		PROD. REL. PER ECH #15564		J.L.M.		DKB					
8-10-93		E2		INC. ECH #15738		J.L.M.		BM					

- NOTES:
(UNLESS OTHERWISE SPECIFIED)
- 1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 - 2. ALL RESISTORS ARE 1%, 1/BW.
 - 3. ALL RESISTANCE IS EXPRESSED IN OHMS. ALL CAPACITANCE IS EXPRESSED IN MICROFARADS. ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.
 - 4. HIGHEST REFERENCE DESIGNATIONS:
7005-8742-100 FL9, J5, P4, AT2, C2, CR8, CL1, L1, P1, R2, U1,
7010-8732-100 C25, CR7, E14, K2, L1, Q6, R88, U8,
 - 5. REFERENCE DESIGNATIONS NOT USED:
7005-8742-100 CR2-CR5,
7010-8732-100 R1, R2, C1, C2, CR1, U1.
 - 6. FOR INTERCONNECT/BLOCK DIAGRAM SEE APPLICATIONS WHERE USED.

- 7. R2 IS A S.A.T. NOMINAL VALUE IS 75. SELECT VALUES 68, 82.
- 8. CR1 AND CR6 ARE PAIRED HAVE TO BE REPLACED AS A PAIRED SET
- 9. INSTALLED AT MECH LEVEL.

10. IC FUNCTIONS NOT USED: NONE

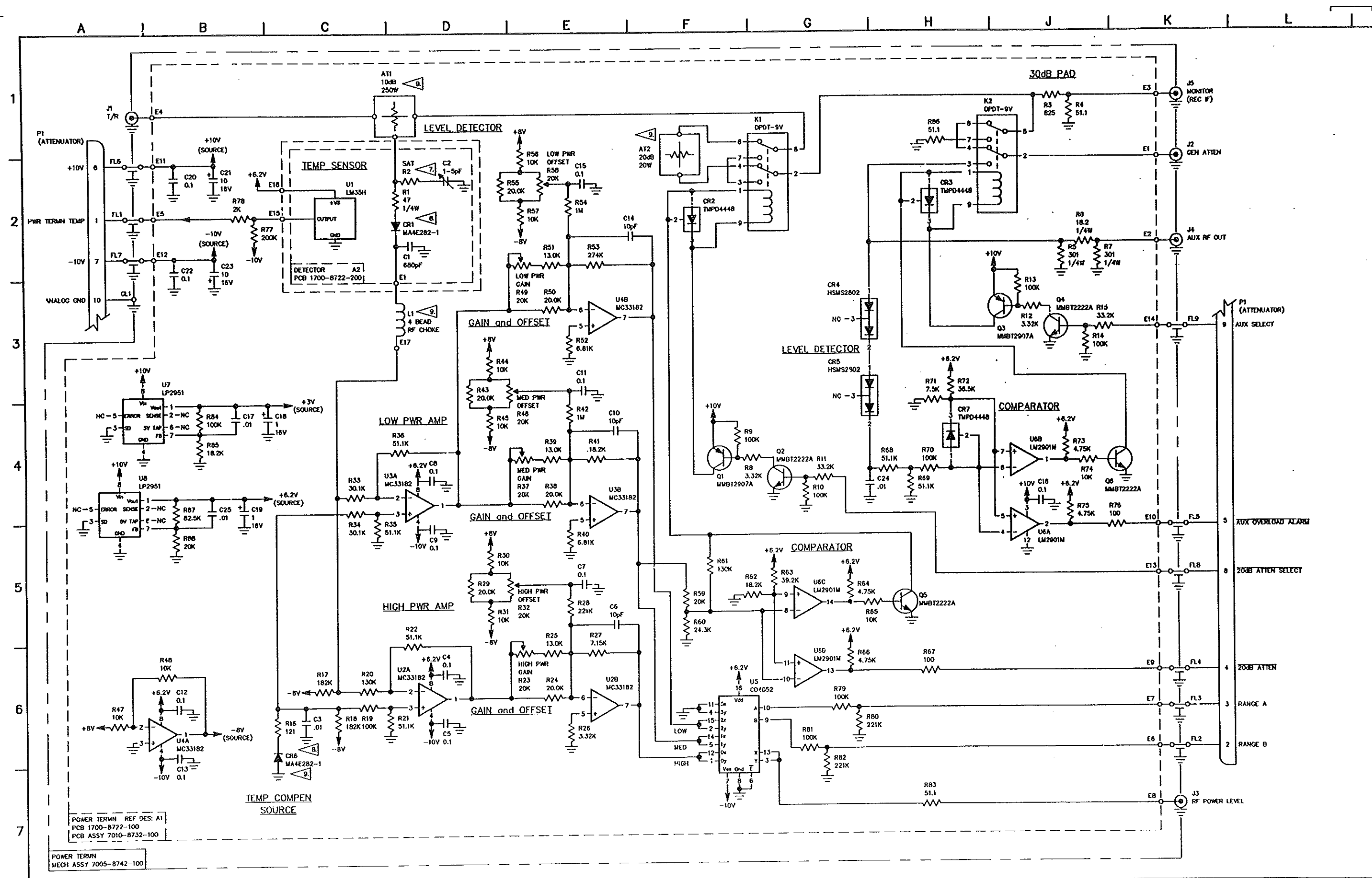
* - INDICATES PRINTED TRANSMISSION LINES OF OTHER THAN 50 OHMS IMPEDANCE WHICH CONSTITUTE CIRCUIT ELEMENTS. 50 OHM TRANSMISSION LINES ARE NOT SHOWN.

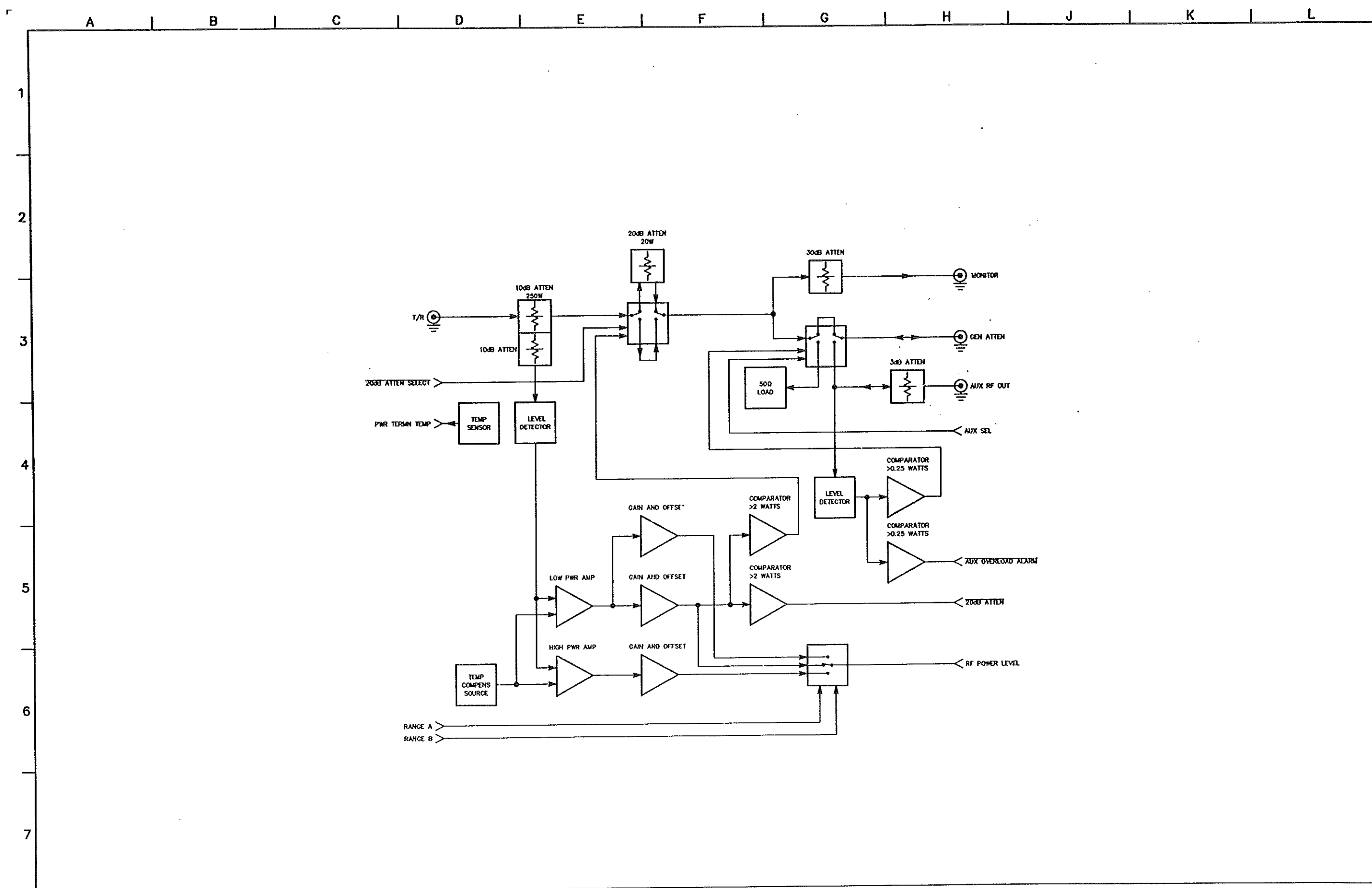


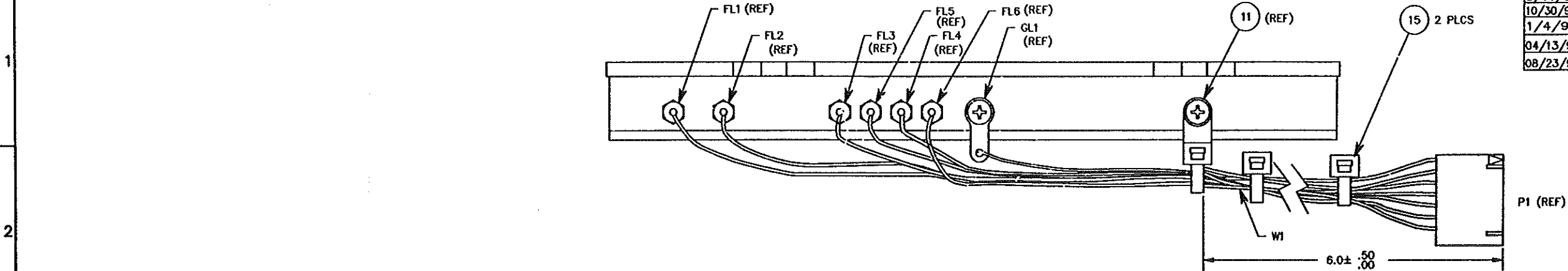
CAUTION:

CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).

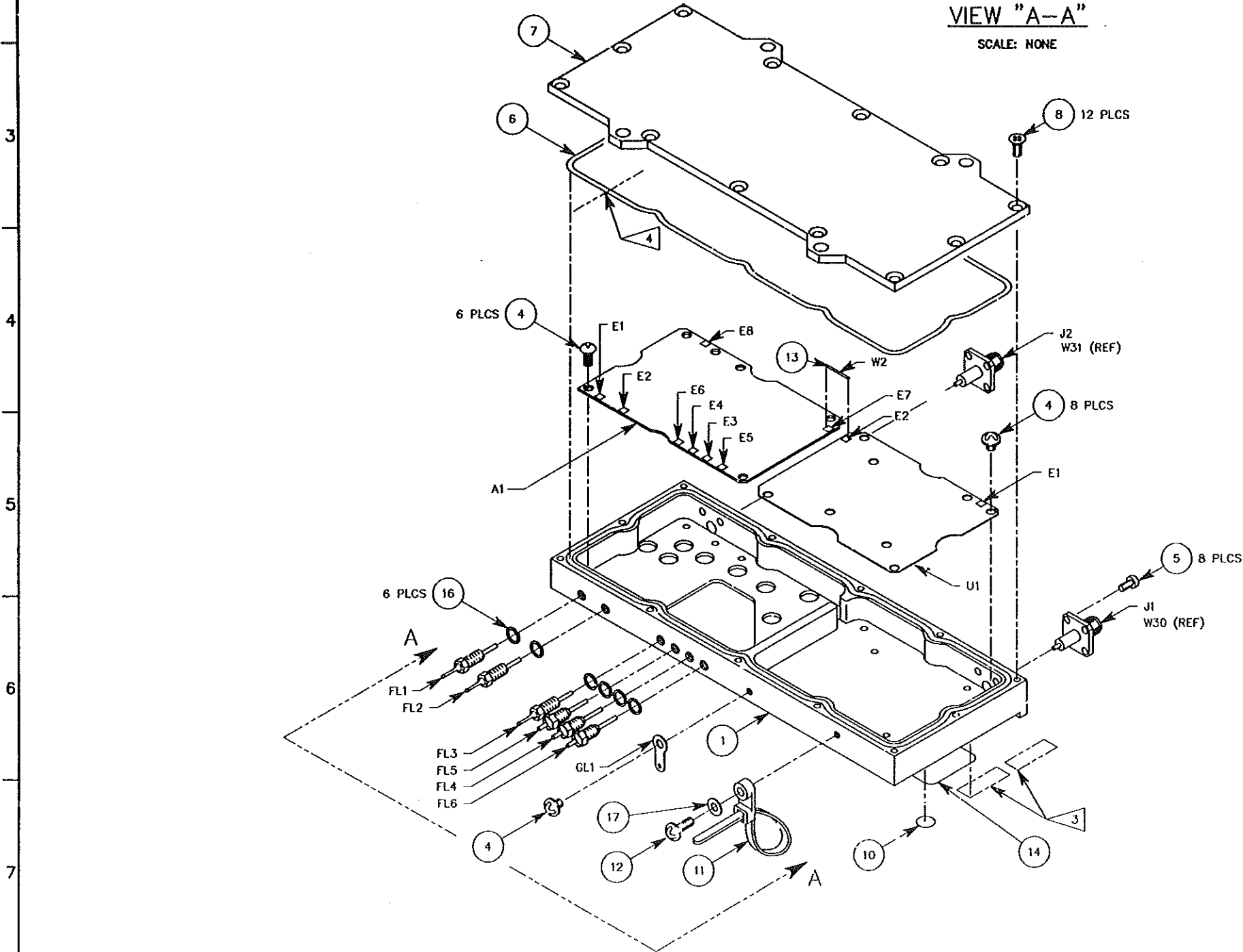
IFR SYSTEMS, INC.			
10000 West York Rd., Kansas, Kansas 67219			
DATE	FILE	CIRCUIT SCHEMATIC POWER TERMIN	
J. MILLER 7-15-92			
DESIGN	DATE		
DER B. 9-22-92			
APPROVED	DATE	REV	
S. PIERSON 9-22-92		E2	
SCALE		DO NOT SCALE	FROM 51190
		PAGE 1 OF 3	







VIEW "A-A"
SCALE: NONE



- NOTES:
- BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 - MECH. ASS'Y DRAWING SHOWS ONLY PORTIONS OF PC BD ASS'YS REQUIRED FOR REF. ONLY.
 - AFFIX MODULE IDENTIFICATION LABELS HERE.
 - CUT ENDS OF GASKET MUST MEET UNDER COMPRESSION WHEN INSTALLED.

WIRE RUNNING LIST				
WIRING	FROM	TO	COLOR	AWG
W1W1	P1-1	FL1	RED	26
W1W2	P1-2	GND1	BLACK	26
W1W3	P1-3	FL2	YELLOW	26
W1W4	P1-4	FL3	WHI/RED	26
W1W5	P1-5	FL4	WHI/GRN	26
W1W6	P1-6	FL5	WHI/BLUE	26
W1W7	P1-7	FL6	GRAY	26
W2	TE7	ASE2	BUS	26



CAUTION:
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD).

IFR SYSTEMS, INC.				
DATE	8/8/92	FILE	MECH ASSY, GENERATOR OUTPUT	
DESIGNED	O.BROKSCHWIDT 8/14/92	DATE	7005-8742-300	
APPROVED	S.STARKEL 8/14/92	DATE	D4	
087423D4.DWG	SCALE 1=1	SCALE 1=1	CAGE 51182	SHEET 1 of 1

113

A B C D E F G

DATE	REV	CHANGE	APPROVED
8-14-92	D	DESIGN RELEASE	RLA DKB
4-27-93	D1	PROD REL PER ECN 15564	MKM DKB
4-14-94	D2	INC ECN 15988	RLA BM

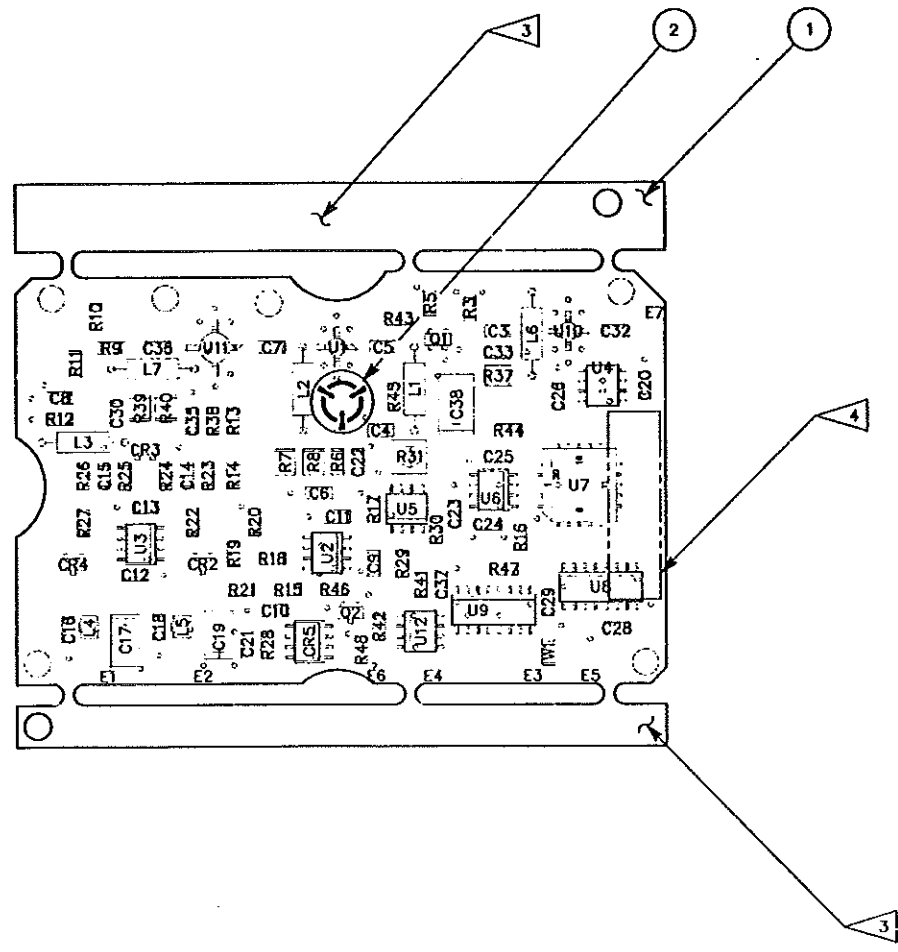
1

2

3

4

5



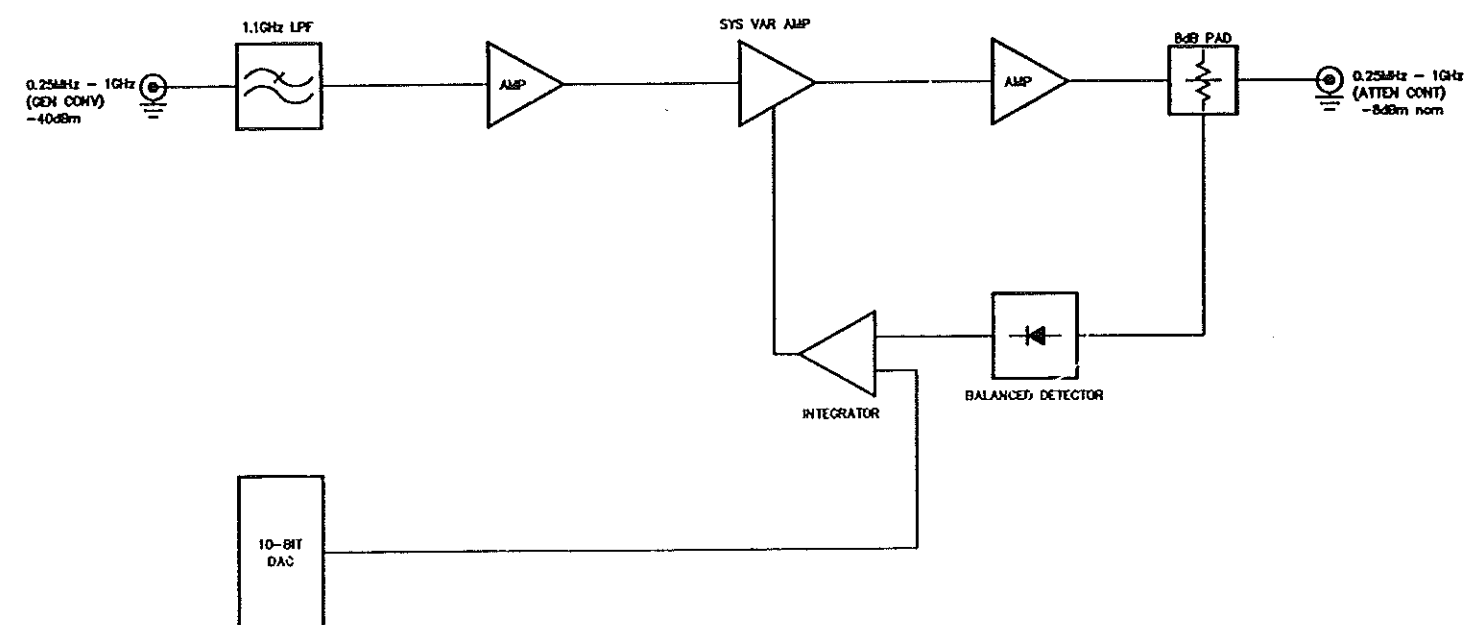
NOTES:

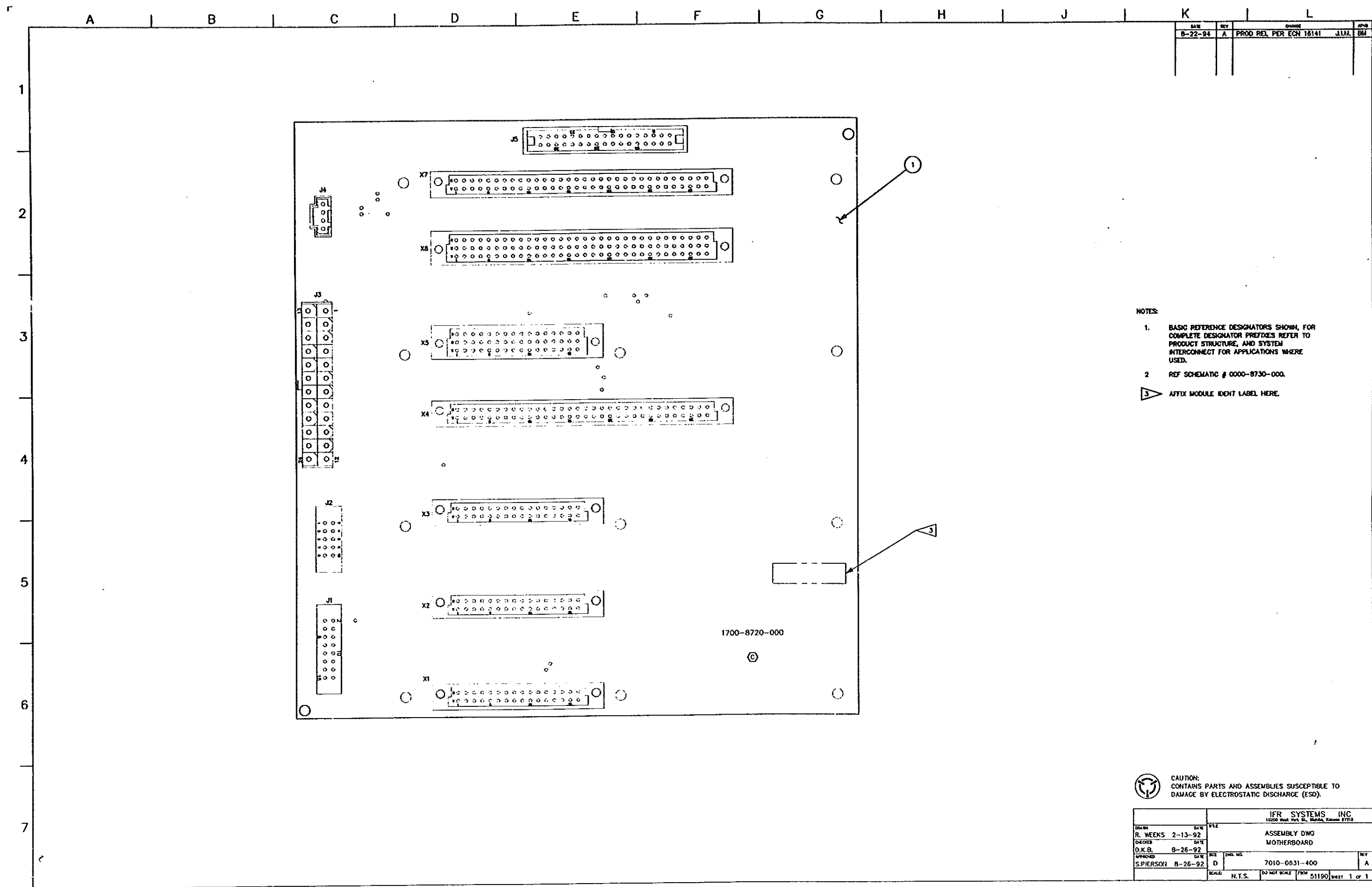
1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
2. REF SCHEMATIC # 0000-8742-300.
3. TO BE REMOVED PRIOR TO MECH. ASSY.
4. AFFIX MODULE IDENT LABEL HERE. TO BE INSTALLED ON BOTTOM SIDE ONLY.



CAUTION:
CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO
DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).

DRAWN C.J. WEBB 5/23/91				IFR SYSTEMS INC 10200 West York St., Wichita, Kansas 67219			
CHECKED S. STARKEL 6/4/91				ASSY DRAWING GENERATOR OUTPUT BOARD			
APPROVED B.LANCRIDGE 6/4/91				SIZE C	DWG NO. 7010-8732-300	REV D2	
108723D2.PLT				SCALE 1:1	DO NOT SCALE	FROM 51190	SHEET 1 of 1



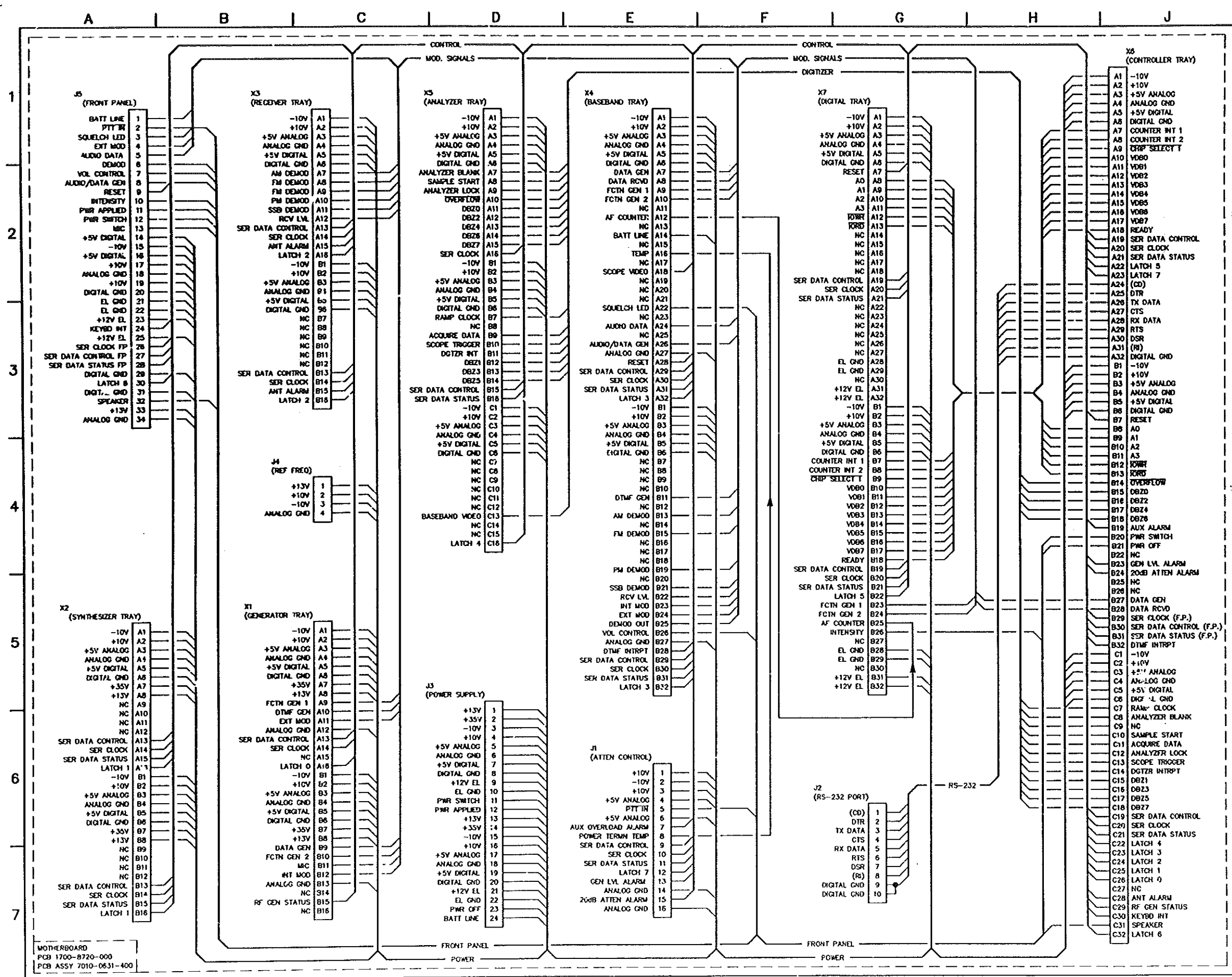


DATE	REV	CHANGE	APP
8-22-94	A	PROD REL PER ECH 16141	JLL/BM

- NOTES:
1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 2. REF SCHEMATIC # 0000-8730-000.
 3. AFFIX MODULE IDENT LABEL HERE.

CAUTION:
CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO
DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).

IFR SYSTEMS, INC.			
10200 West Hwy 54, Omaha, Kansas 68113			
DRAWN R. WEEKS	DATE 2-13-92	FILE	ASSEMBLY DWG
CHECKED D.K.B.	DATE 8-26-92	FILE	MOTHERBOARD
APPROVED S. PIERSON	DATE 8-26-92	REV D	7010-0531-400
SCALE N.T.S.		SHEET 1 OF 1	



DATE	REV	CHANGE	APPROVED
8-28-92	C	DESIGN RELEASE	J.L.M.
10-2-92	C1	INC REF #JMY-016	J.L.M.
5-11-93	C2	PROD. REL. PER ECH #15544	J.L.M.
12-4-94	D	INC ECH 16141A	SP

- NOTES:
(UNLESS OTHERWISE SPECIFIED)
1. BASIC REFERENCE DESIGNATORS SHOWN FOR COMPLETE DESIGNATION PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 2. ALL RESISTORS ARE K, M, X M.
 3. ALL RESISTANCE IS EXPRESSED IN OHMS. ALL CAPACITANCE IS EXPRESSED IN MICROFARADS. ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.
 4. HIGHEST REFERENCE DESIGNATIONS, J12.
 5. REFERENCE DESIGNATIONS NOT USED. NONE
 6. FOR INTERCONNECT/BLOCK DIAGRAM SEE APPLICATIONS WHERE USED.
 7. IC FUNCTIONS NOT USED: NONE
- INDICATES PRINTED TRANSMISSION LINES OF OTHER THAN 50 OHMS IMPEDANCE WHICH CONSTITUTE CIRCUIT ELEMENTS. 50 OHM TRANSMISSION LINES ARE NOT SHOWN.

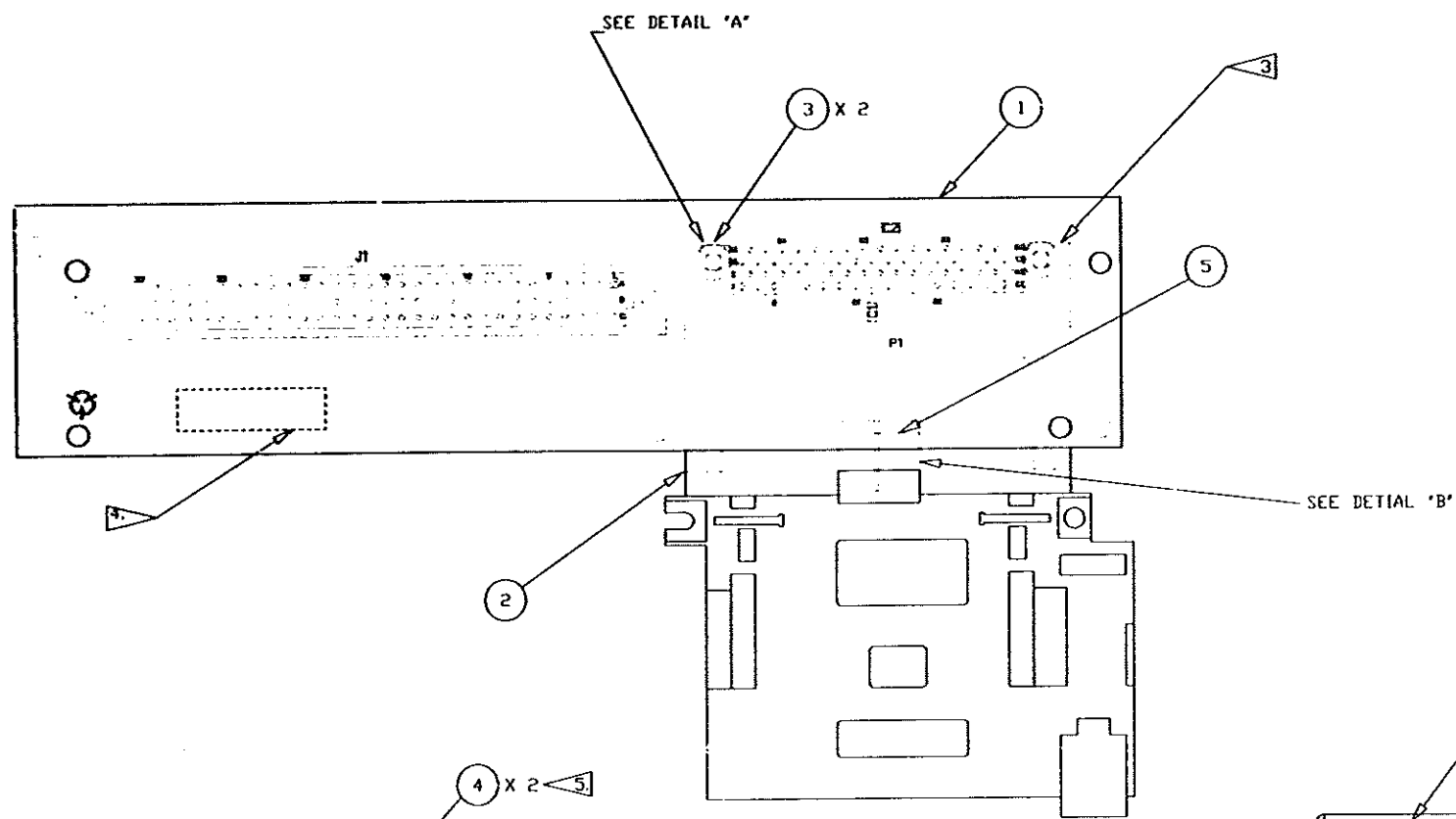


CAUTION:
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD).

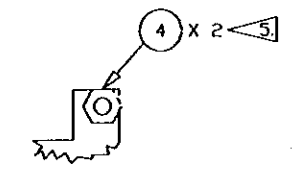
IFR SYSTEMS, INC.			
1200 West Park Rd. Suite 1773			
Circuit Schematic			
Motherboard			
DATE	REV	DATE	REV
3-20-91	1	8-28-92	1
DESIGNED BY	DATE	DESIGNED BY	DATE
E. SHIMONI	8-28-92	M. BACHMAN	8-28-92
APPROVED BY	DATE	APPROVED BY	DATE
087B300C.DWG		SCALE	NO NOT SCALE
		51150	1 of 1

A B C D E F G H J K L

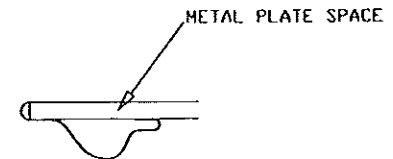
DATE	REV	CHANGE	APPROV
9-5-95	A	RELEASE PER ECH #16626 JLM	DKB



- NOTES:
1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 2. HARDWARE THAT IS NOT PART OF BILL OF MATERIALS SHOULD NOT BE INSTALLED.
 3. INSTALL ON BOTTOM SIDE.
 4. AFFIX MODULE IDENT LABEL HERE.
 5. BEFORE INSTALLING NUTS (ITEM 4), REMOVE AND DISCARD METRIC NUTS WHICH ARE SUPPLIED WITH CONN (P1).



DETAIL "A"
BOTTOM VIEW



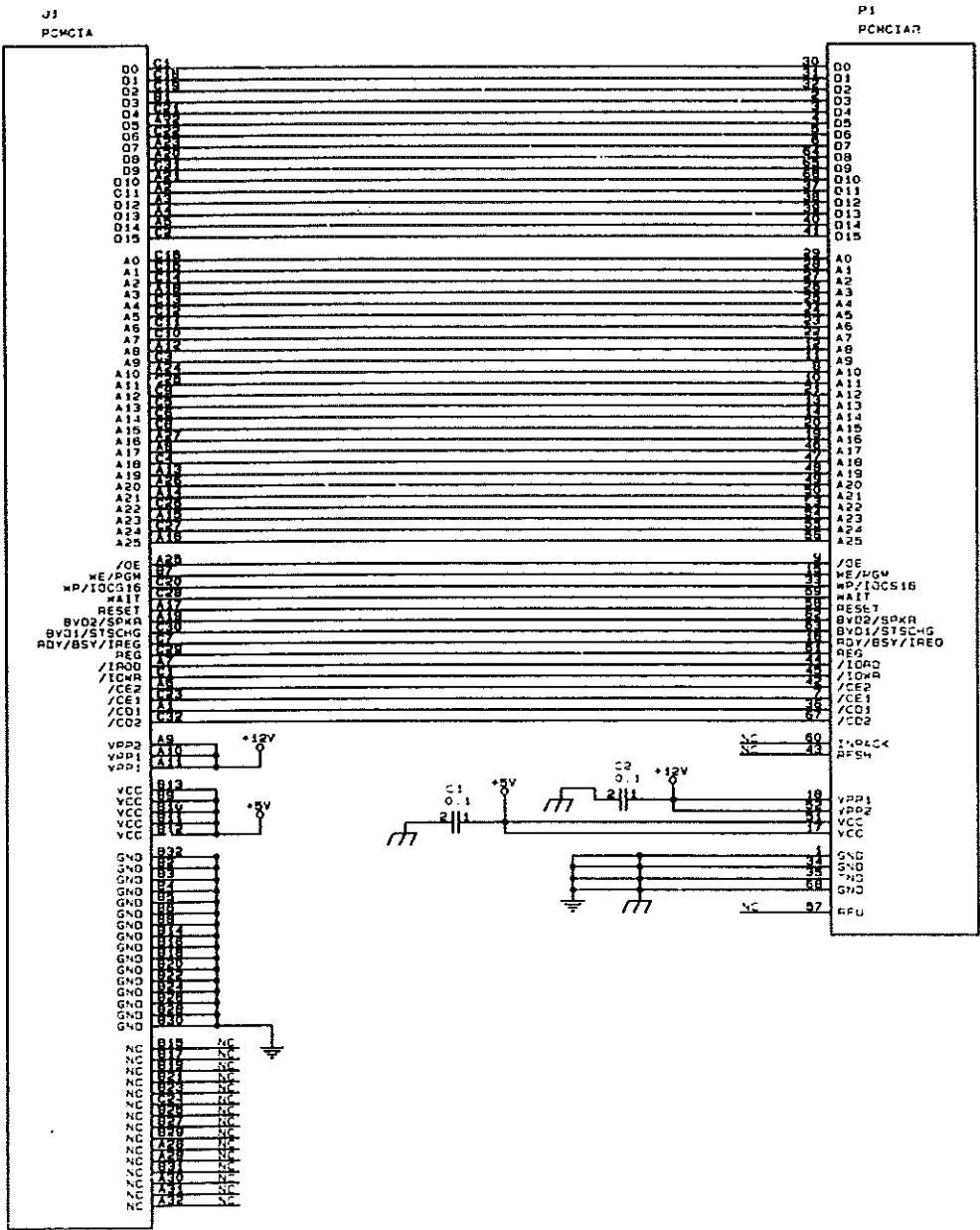
DETAIL "B"
SIDE VIEW

TOP VIEW

CAUTION
CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO
DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).

IFR SYSTEMS INC			
1328 West York St., Wichita, Kansas 67203			
DESIGN	DATE	TITLE	REV
J. MILLER	6-27-95	ASSEMBLY DRAWING	
CREATED	DATE	PENCIA INTERFACE	
DKB	9-5-95		
APPROVED	DATE	SIZE	DATE
STAN P.	9-5-95	D	7010-0631-800
100618A0.PLT	SCALE	N.T.S.	NO NET SCALE
		PSN	51190
		SHEET 1 of 1	

DATE	REV	CHANGE	APPROVED
9-5-95	A	RELEASE PER ECN #18626 J.I.M.	DBK

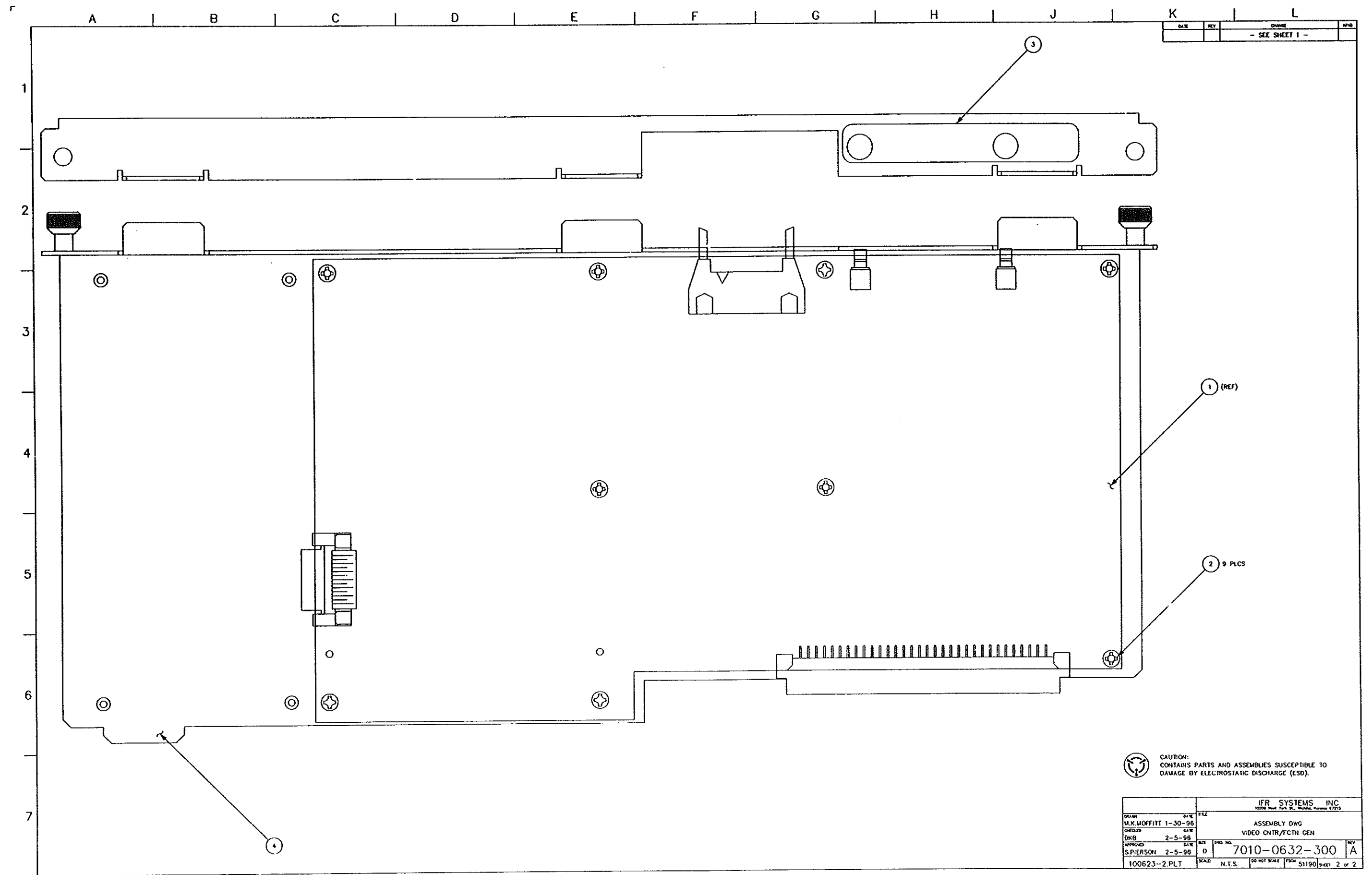


- NOTES:
(UNLESS OTHERWISE SPECIFIED):
1. BASIC REFERENCE DESIGNATORS SHOWN. FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 2. ALL RESISTORS ARE 5%, 1/4W.
 3. ALL RESISTANCE IS EXPRESSED IN OHMS. ALL CAPACITANCE IS EXPRESSED IN MICROFARADS. ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.
 4. HIGHEST REFERENCE DESIGNATIONS: J1, P1, C2.
 5. REFERENCE DESIGNATIONS NOT USED: NONE
 6. FOR INTERCONNECT/BLOCK DIAGRAM SEE APPLICATIONS WHERE USED.
 7. IC FUNCTIONS NOT USED: NONE
- INDICATES PRINTED TRANSMISSION LINES OF OTHER THAN 50 OHMS IMPEDANCE WHICH CONSTITUTE CIRCUIT ELEMENTS. 50 OHM TRANSMISSION LINES ARE NOT SHOWN.



CAUTION:
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD).

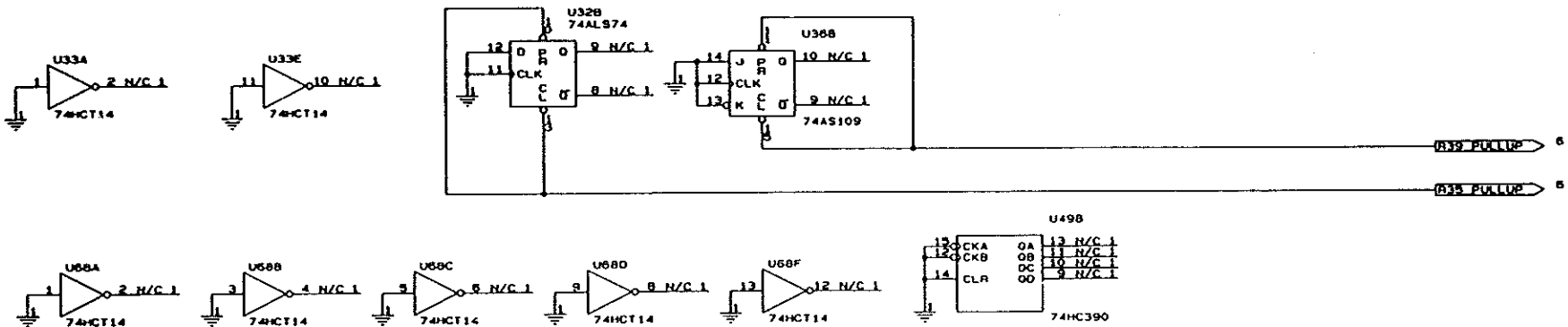
FILE: PCMCIA1A.SCH		FOR SYSTEMS INC. 10200 W. YORK ST.	
DESIGN J. MILLER	4-3-95	TITLE SCHEMATIC: PCMCIA INTERFACE	REV A
CHECKED CXB	9-5-95	SIZE DOCUMENT NUMBER 10	DATE 9-5-95
APPROVED S. PIERSON	9-5-95	DATE 9-5-95	BY J. M.



DATE	REV	CHANGE	APPROVED
4-18-95	A	RELEASE PER ECN #18881 J.I.M.	DKB

NOTES:
(UNLESS OTHERWISE SPECIFIED)

- BASIC REFERENCE DESIGNATORS SHOWN FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
- ALL RESISTORS ARE 1%, 1/8W.
- ALL RESISTANCE IS EXPRESSED IN OHMS.
ALL CAPACITANCE IS EXPRESSED IN MICROFARADS.
ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.
- HIGHEST REFERENCE DESIGNATIONS:
U70 C110 CR3 R90 P1 J4 63 TB3 E3 L1 PH1 S1 TP7
- REFERENCE DESIGNATIONS NOT USED:
C30, C46, C47, C48, C51, C52, C53, C54, C55, U23, U24, U25, U26, U27, U28, U29, U30, U7, CR4
R3, R4, R5, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R30
REFERENCE DESIGNATIONS NOT INSTALLED:
E1-E3, TB1-TB3, TP1-TP7, U37, U38
- FOR INTERCONNECT/BLOCK DIAGRAM SEE APPLICATIONS WHERE USED.
- IC FUNCTIONS NOT USED:



6- INDICATES PRINTED TRANSMISSION LINES OF OTHER THAN 50 OHM IMPEDANCE WHICH CONSTITUTE CIRCUIT ELEMENTS. 50 OHM TRANSMISSION LINES ARE NOT SHOWN.



CAUTION:
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD).



INSTALL W1 WHEN USING THS55165 FOR U6 DEVICE AND W2 NOT INSTALLED
INSTALL W2 WHEN USING THS55160 FOR U6 DEVICE AND W1 NOT INSTALLED



E1-E3, TB1, TB3, TP1-TP7 FOR FUTURE ENGINEERING TEST ONLY

SCHEMATICS

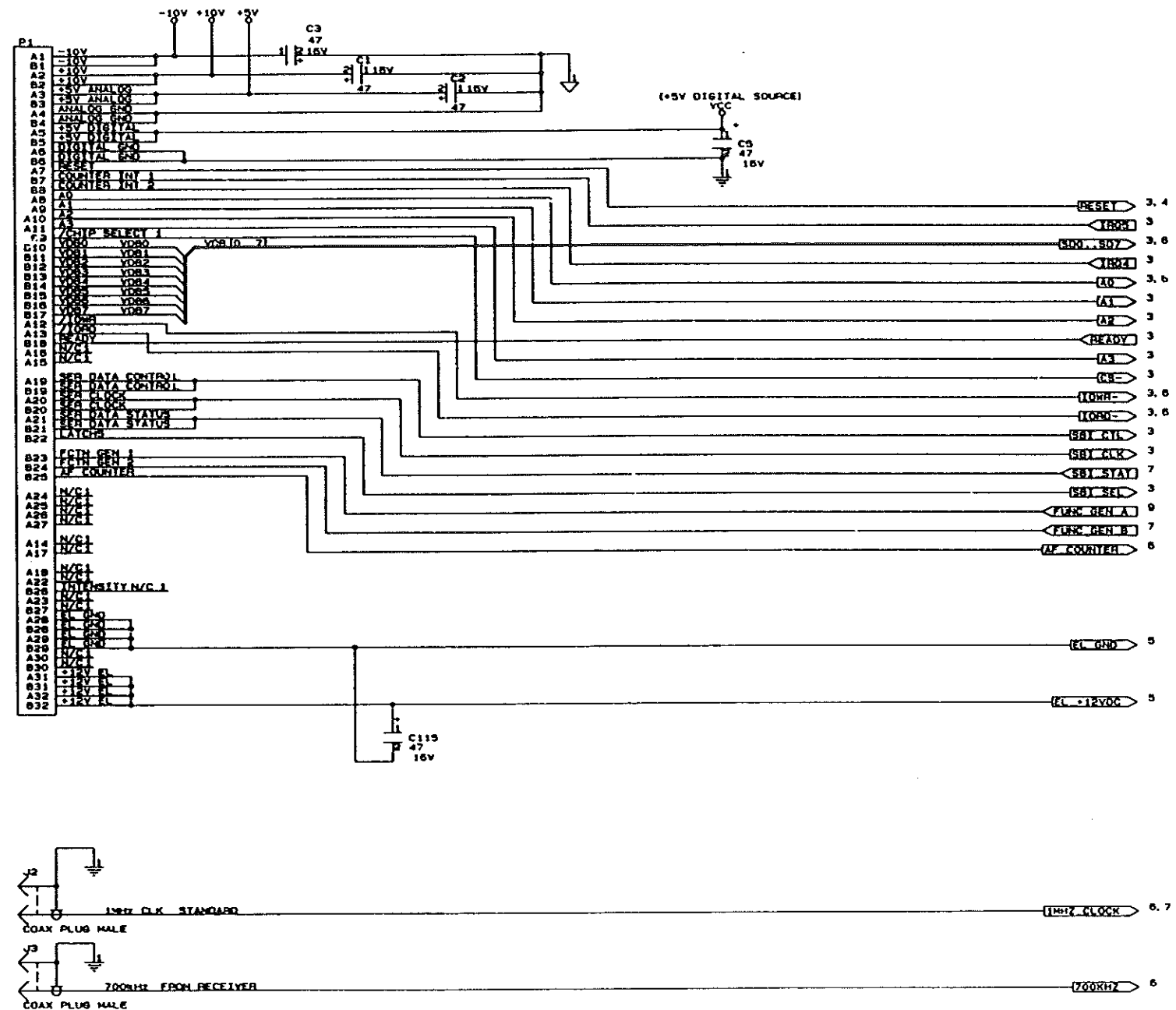
006F323A.SCH

BLOCK DIAGRAM

006A323A.SCH

FILE NAME: 006E323A.SCH

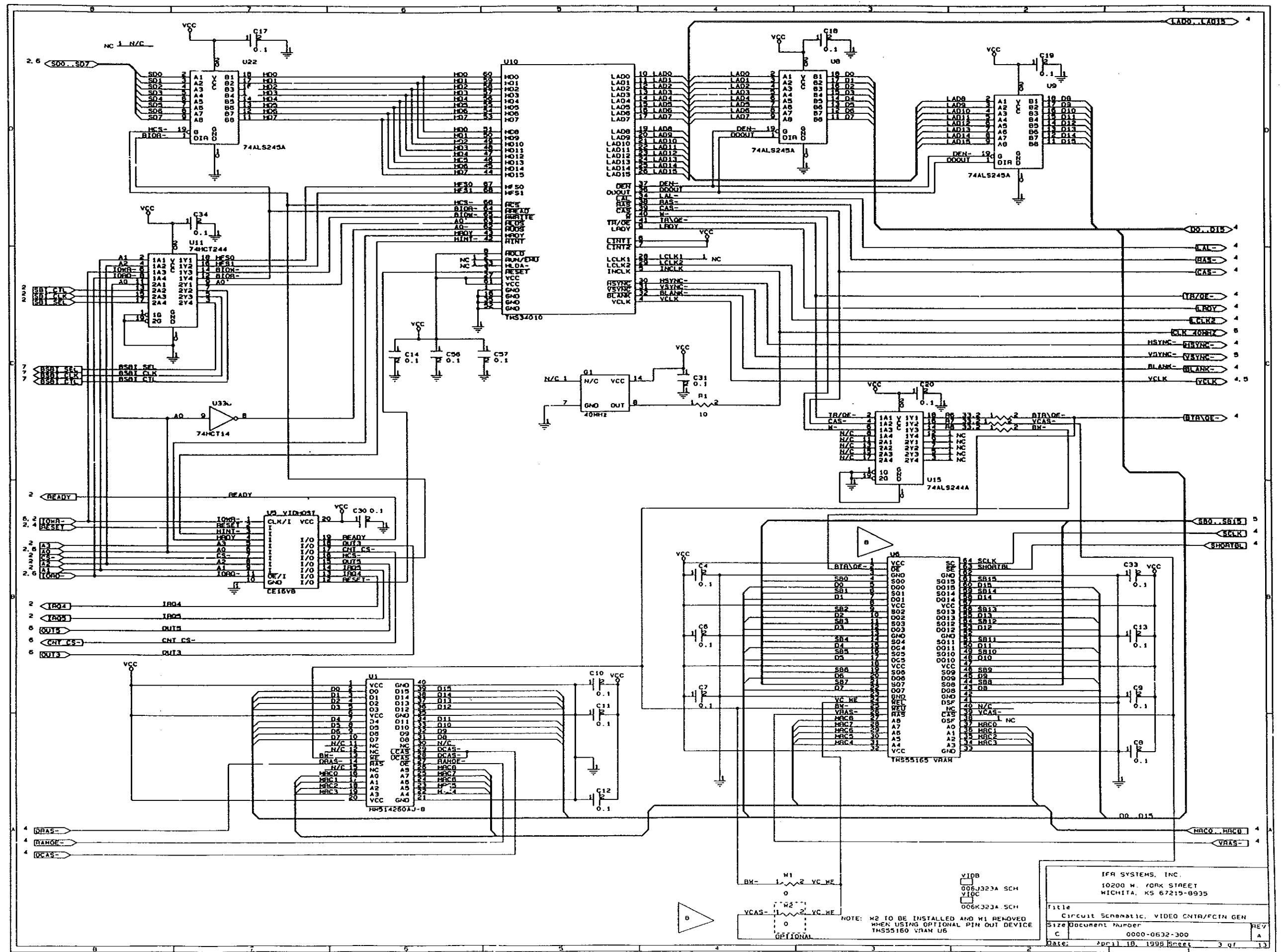
DRAWN D. COX		10-25-94		IFR SYSTEMS, INC. 10200 W YORK STREET WICHITA, KS 67215-8935	
CHECKED DKB		04-06-95		Title Circuit Schematic, VIDEO CNTR/FCFN GEN	
APPROVED STAN PIERSON		04-27-95		Size Document Number C 0000-0632-300	
				Date April 18, 1995	
				REV A	
				1 of 13	

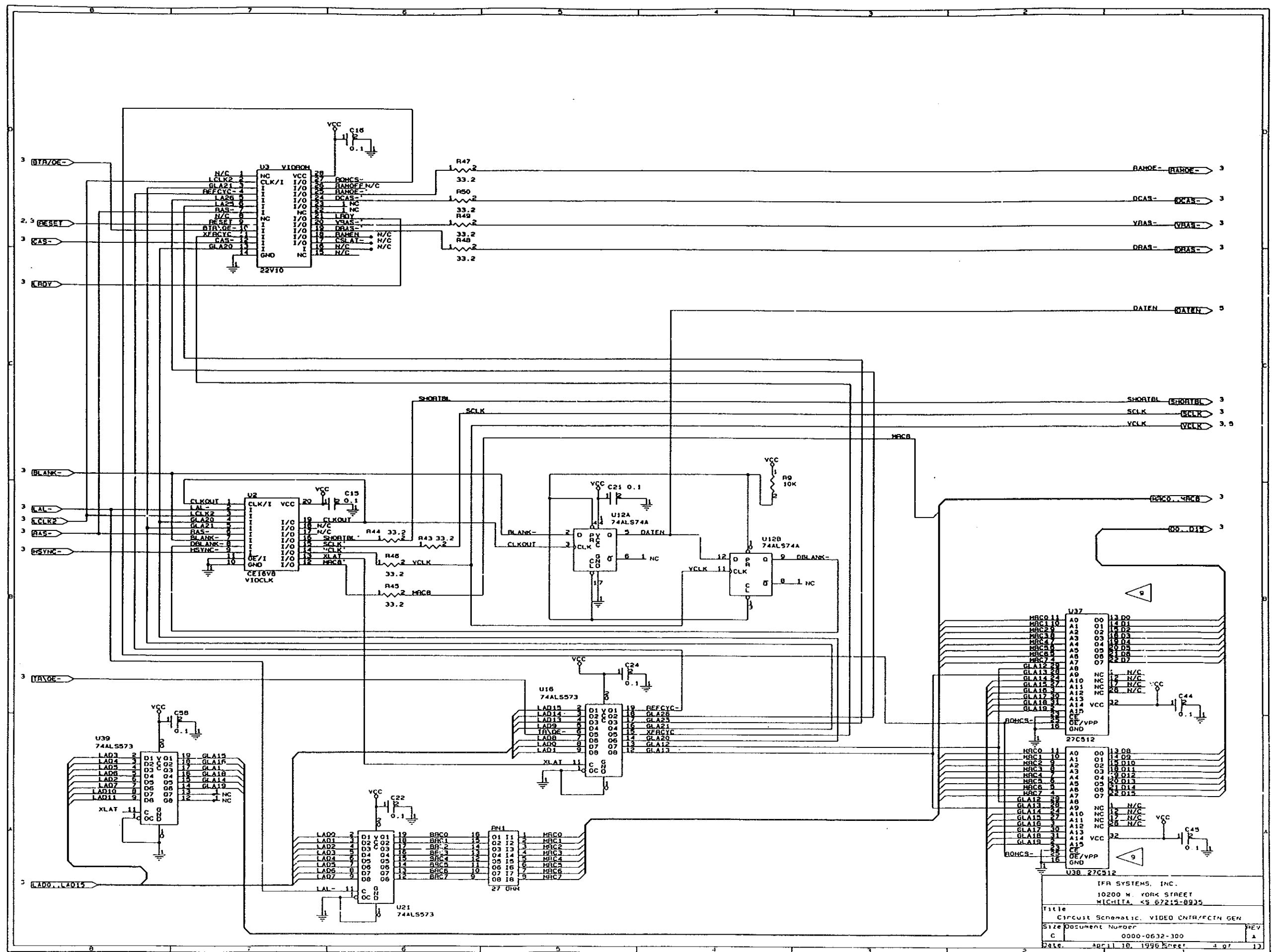


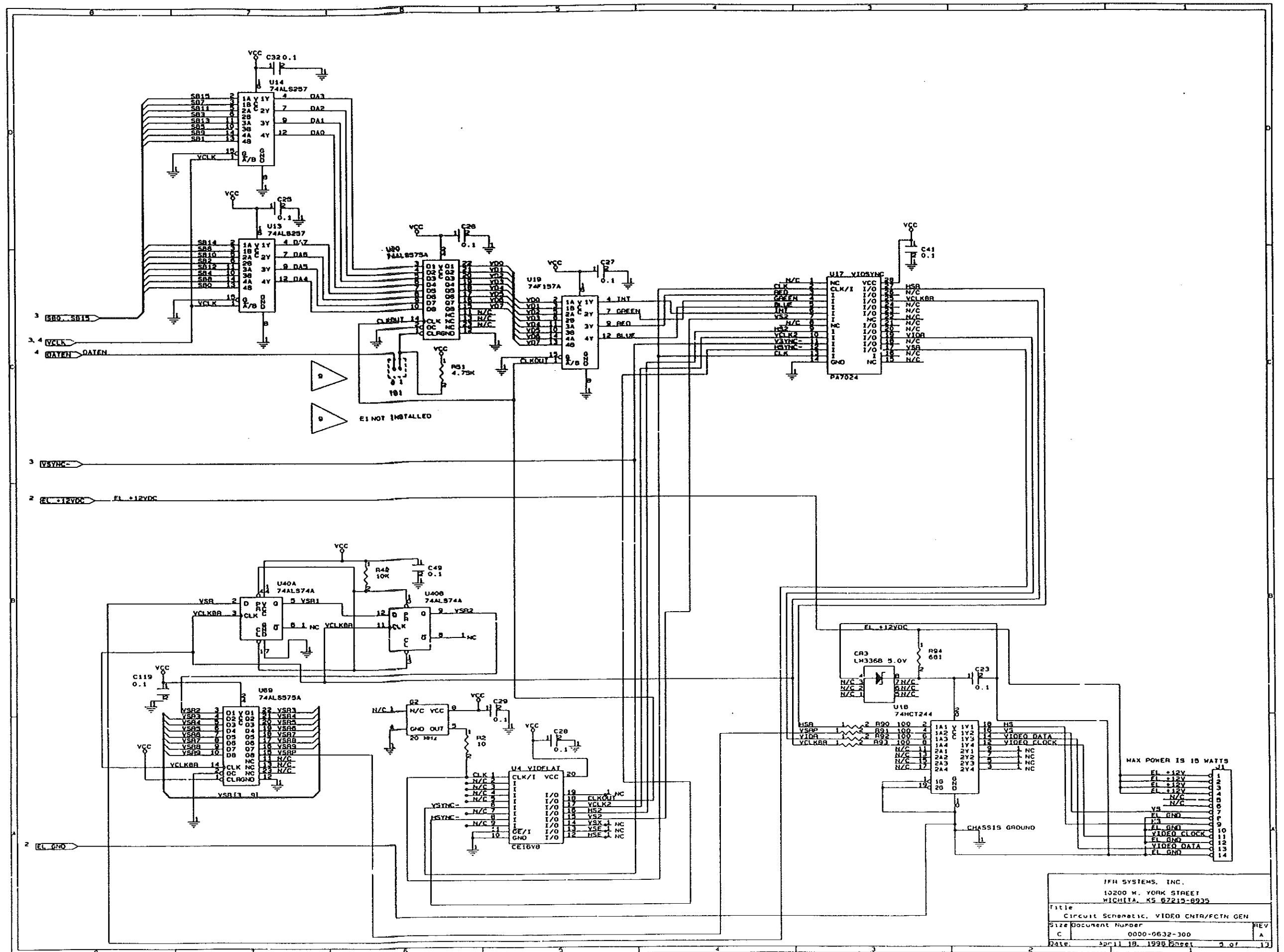
VIDEO PROCESSOR
0060323A.SCH
COUNTER SECTION
006H323A.SCH
FUNCTION GENERATOR
006I323A.SCH

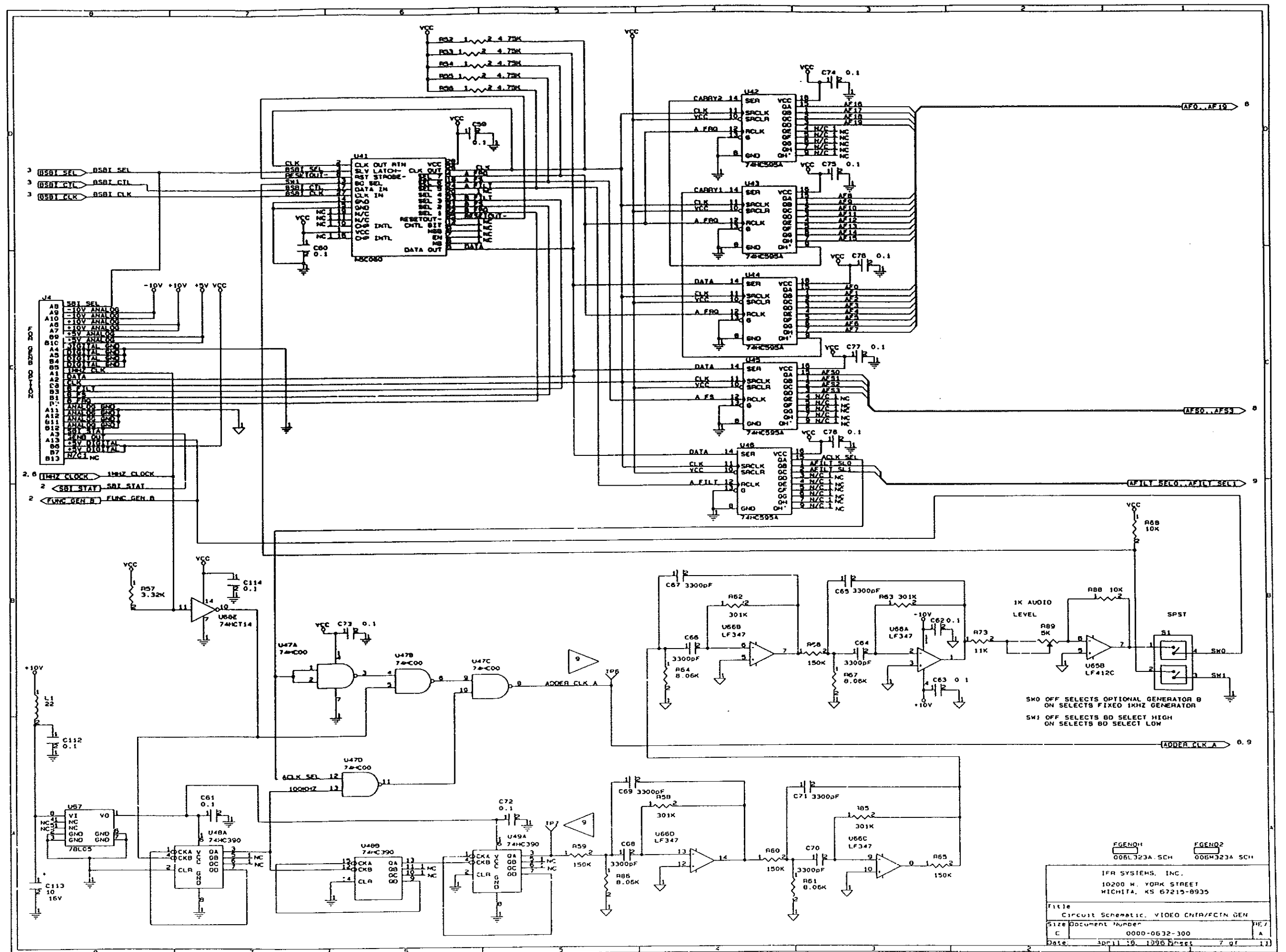
IFR SYSTEMS, INC.
10200 W. YORK STREET
WICHITA, KS 67215-0935

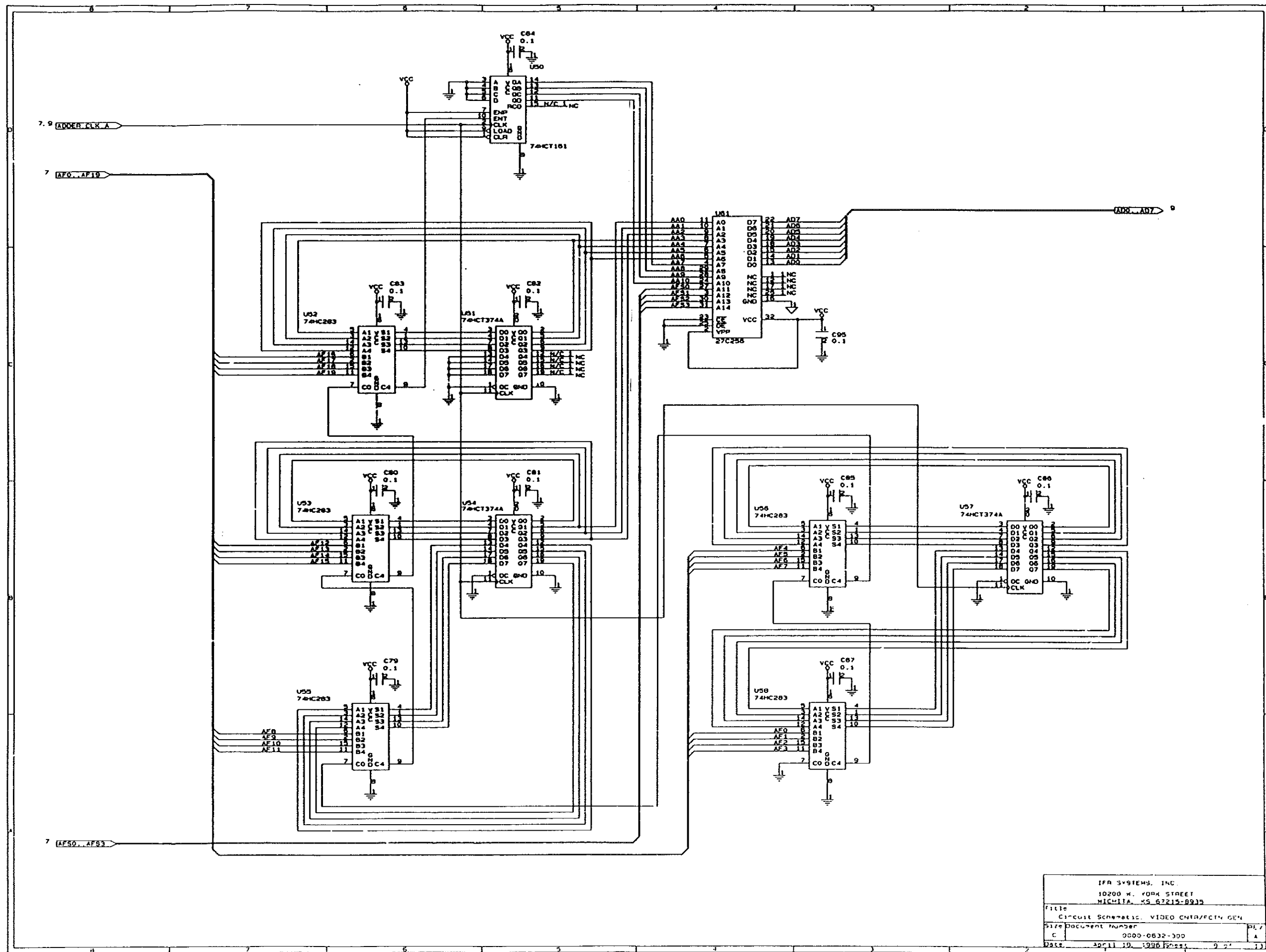
Title
Circuit Schematic, VIDEO CNTR/FCTN GEN
Size Document Number
C 0000-0632-300 REV
Date: April 18, 1995 Sheet 2 of 13







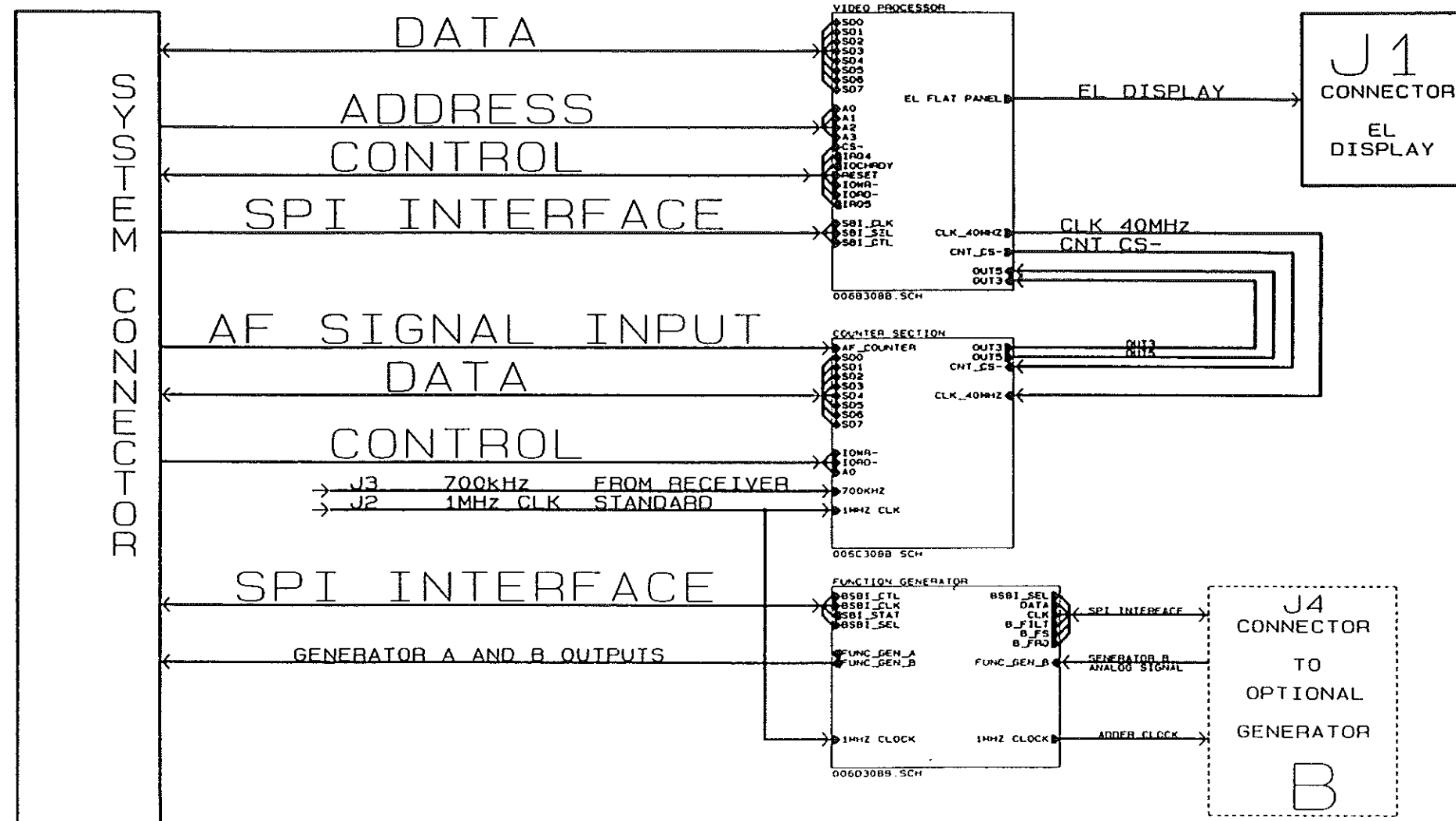




IFR SYSTEMS, INC.
 10200 W. YORK STREET
 WICHITA, KS 67215-8915

File: C:\CIRCUIT\SCHEMATIC\VIDEO CONTRAST GEN
 Size: 1000000
 Date: 10/11/90 10:29:56

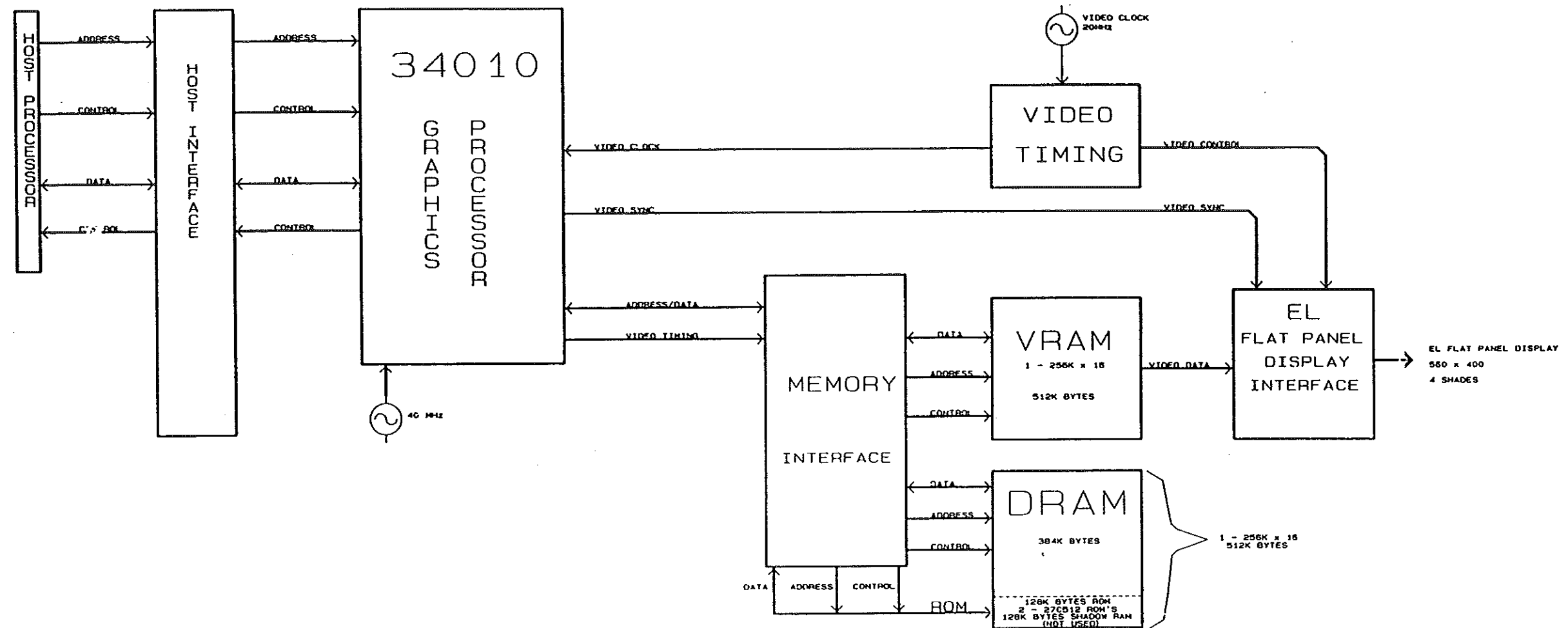
DIGITAL TRAY BLOCK DIAGRAM



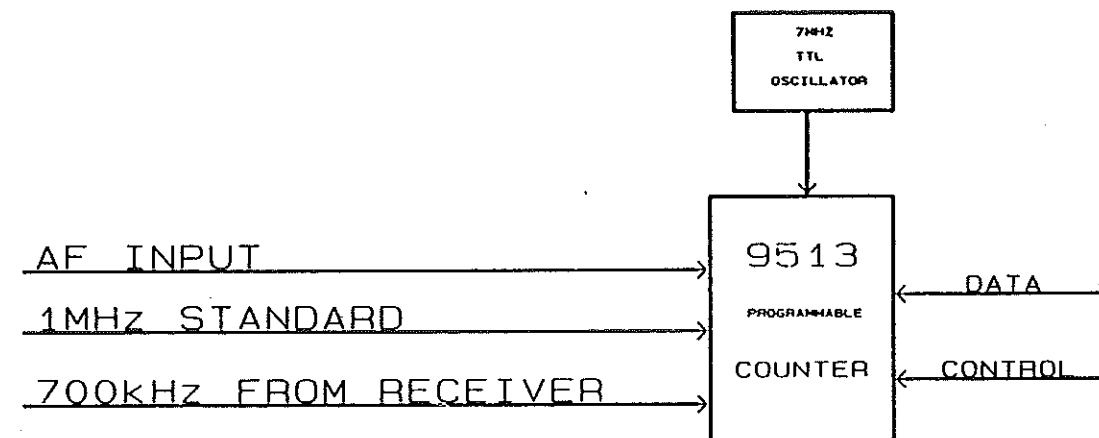
IPR SYSTEMS, INC.
10200 W. YORK STREET
WICHITA, KS 67215-8935

Title		Circuit Schematic, VIDEO CNTR/FCN GEN	
Size		Document Number	
C	0000-0632-300	REV	A
Date: Apr 11, 1996		Sheet 10 of 13	

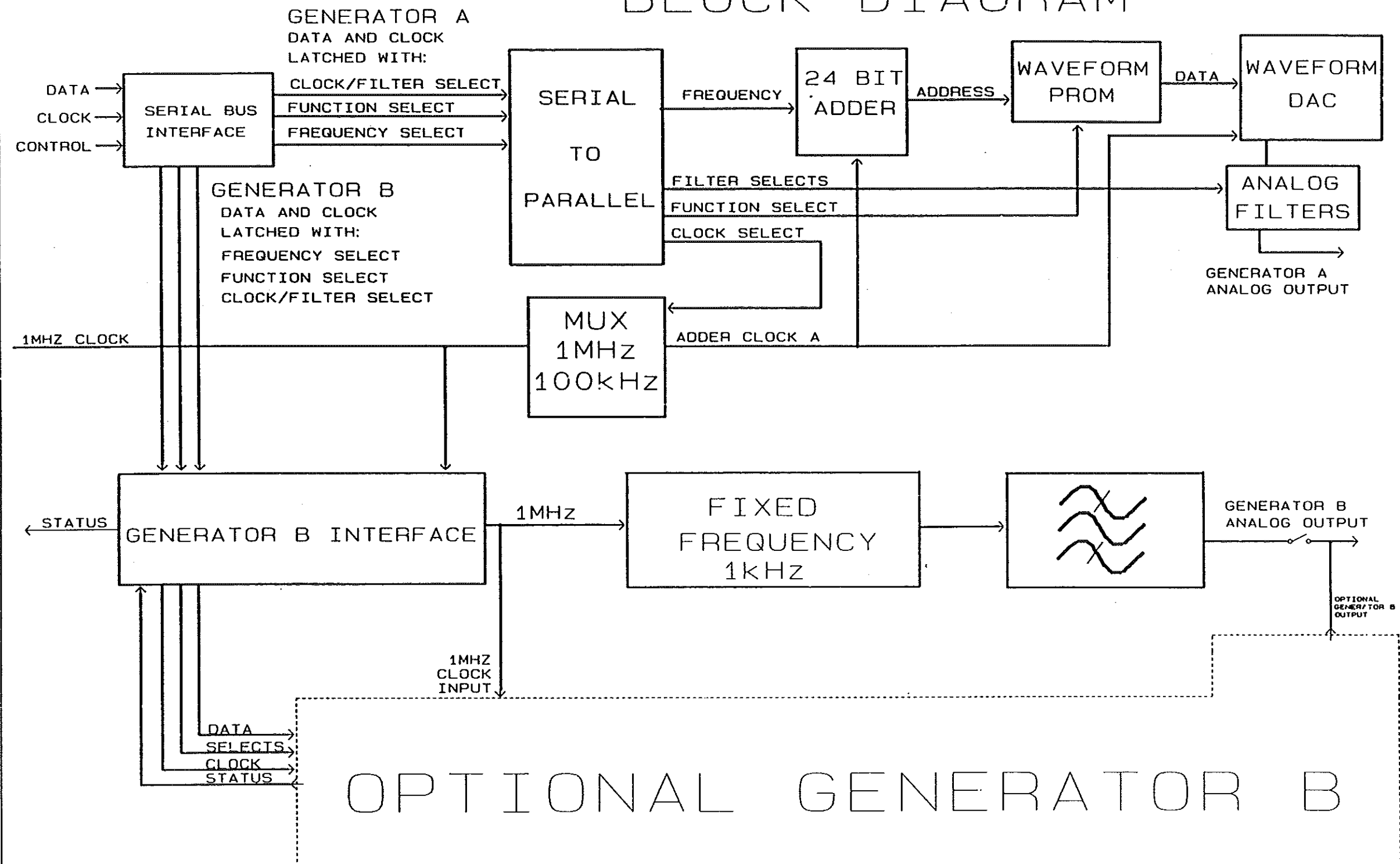
VIDEO SECTION BLOCK DIAGRAM



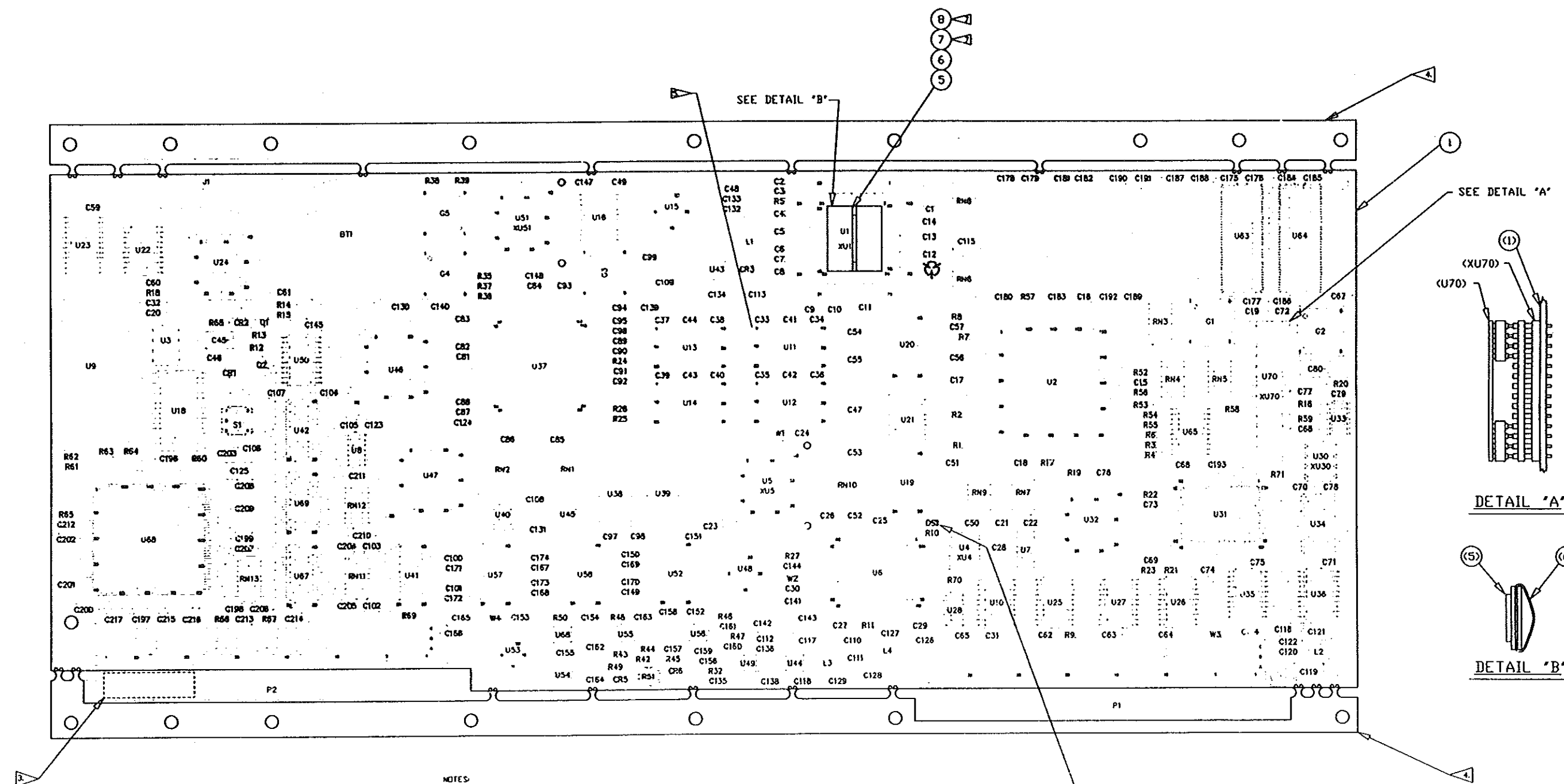
COUNTER SECTION BLOCK DIAGRAM



FUNCTION GENERATOR BLOCK DIAGRAM



DATE	REV	DESCRIPTION	BY	CHK
4-17-95	A	RELEASE PFR ECH 16881	RLA	DKB
8-14-95	B	DMC ECH # 17096	JJA	DC

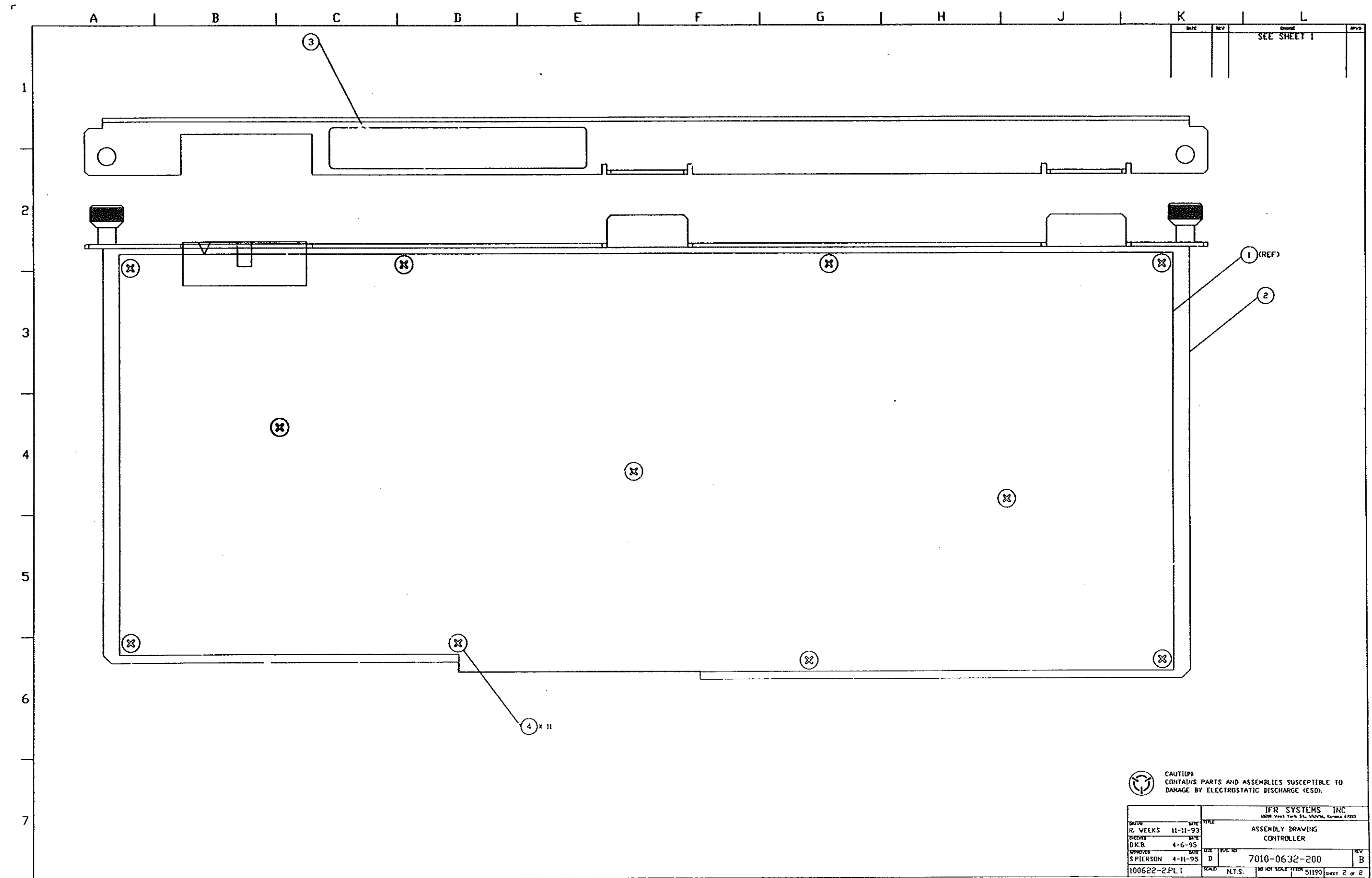


- NOTES:
1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 2. HARDWARE THAT IS NOT PART OF BILL OF MATERIALS SHOULD NOT BE INSTALLED.
- ▲ AFFIX MODULE IDENT LABEL HERE.
 ▲ TO BE REMOVED PRIOR TO MECH ASSEMBLY.
 ▲ PROGRAMMED PART.
 ▲ DSI DIRECTION IS MARKED WRONG ON PC BOARD.
- ▲ APPLY ADHESIVE (ITEM 1) TO HEATSINK (ITEM 5) AND ACCELERATOR (ITEM 8) TO PROCESSOR (U1). ORIENT FINGERSTOCK (ITEM 6) ON HEATSINK AS SHOWN.

TOP VIEW

CAUTION: CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).

JFR SYSTEMS INC. 1000 West York St., Victoria, Canada V7Y 1Z3	
DATE 11-11-93	BY R. VECKS
DATE 4-6-95	BY DKB
DATE 4-11-95	BY SPIERSON
DATE 4-11-95	BY 100622B0.PLT
TITLE ASSEMBLY DRAWING CONTROLLER	
DATE 4-11-95	BY 7010-0632-200
DATE 4-11-95	BY 100622B0.PLT
DATE 4-11-95	BY 100622B0.PLT



CAUTION: CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).	
IFR SYSTEMS INC 1800 West Park St., Wichita, Kansas 67215	
DESIGN R. WEEKS DATE 11-11-93	TITLE ASSEMBLY DRAWING CONTROLLER
DRAWN DKB DATE 4-6-95	REV D 7010-0632-200
APPROVED S. PIERSON DATE 4-11-95	REV B
100622-2.PLT	SCALE N.T.S.

DATE	REV	CHANGE	APPROVED
4-18-98	A	Release Per ECH 15881 J.T.M.	OKB

NOTES:
(UNLESS OTHERWISE SPECIFIED)

1. BASIC REFERENCE DESIGNATORS SHOWN. FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
2. ALL RESISTORS ARE 1K, 1/8W.
3. ALL RESISTANCE IS EXPRESSED IN OHMS.
ALL CAPACITANCE IS EXPRESSED IN MICROFARADS.
ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.
4. HIGHEST REFERENCE DESIGNATIONS:
U70 C217 CR8 R71 P2 J2 G5 D51 RN13 91 BT1 Q2 L4 M4 TP52
5. REFERENCE DESIGNATIONS NOT USED: U17 U29 C58 C146 C194 C195 C137 R28 R29 R30 R31 R33 R34 R40 R41 CR4
6. FOR INTERCONNECT/BLOCK DIAGRAM SEE APPLICATIONS WHERE USED.

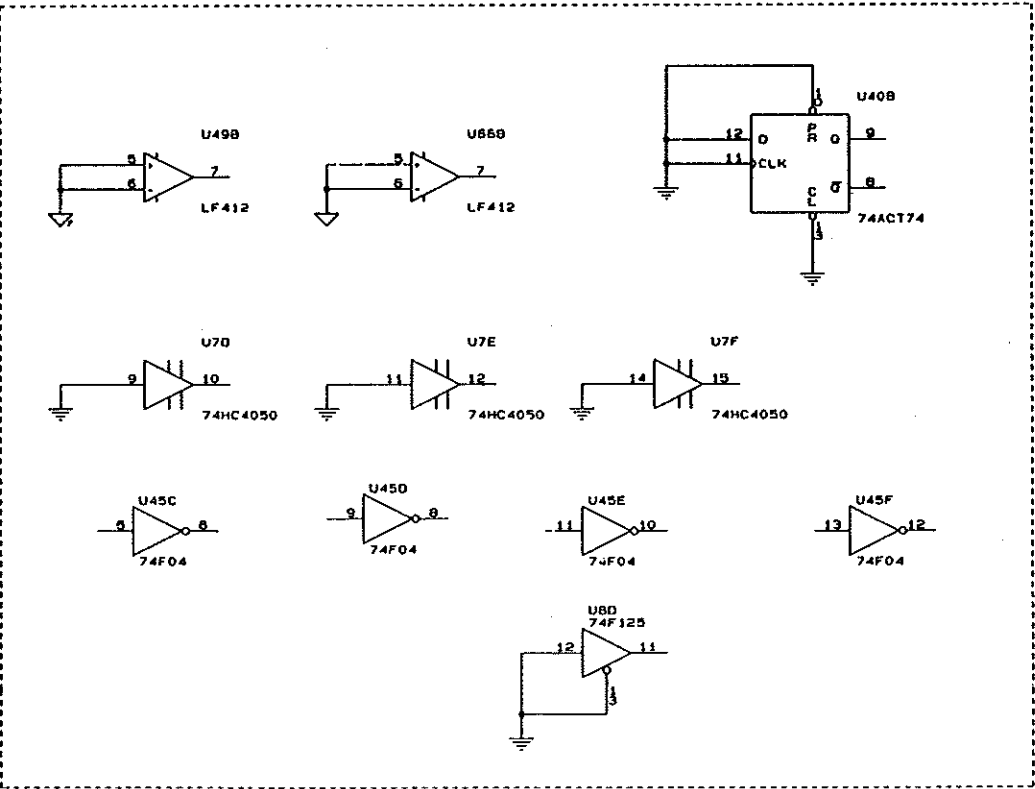
COMPONENT NOT INSTALLED
J2 U59 U60 U61 U62 TP1-TP52



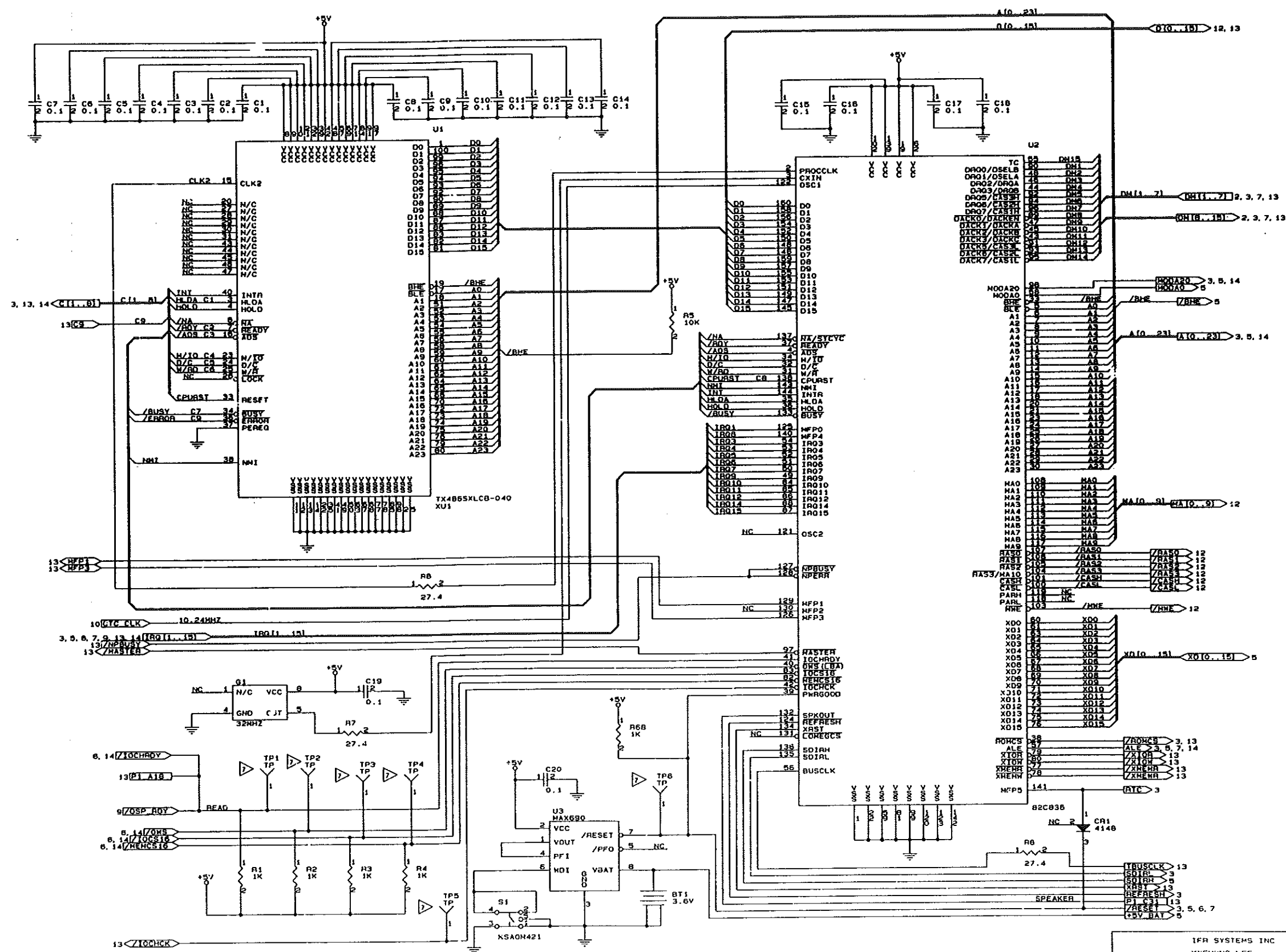
CAUTION:

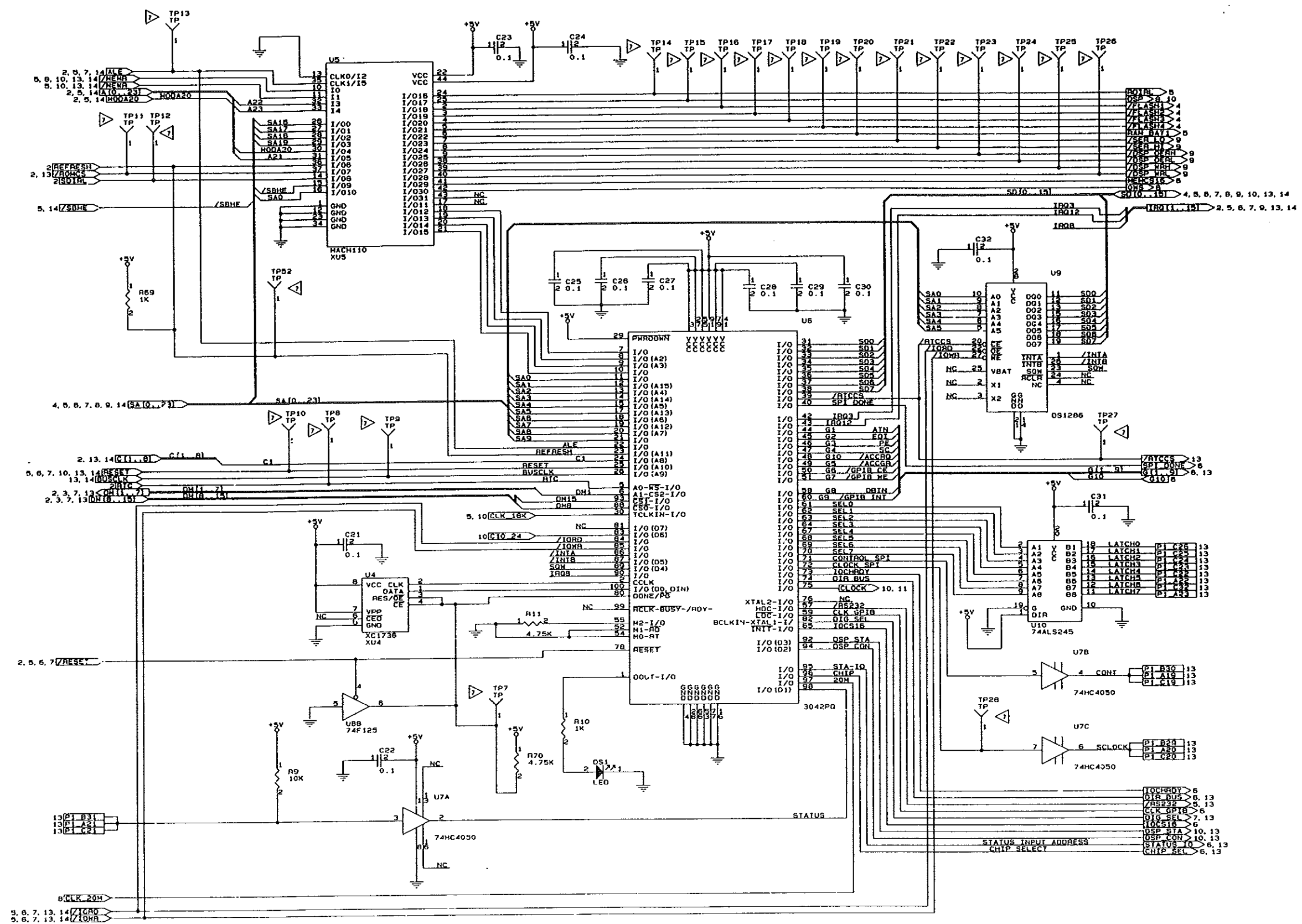
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD).

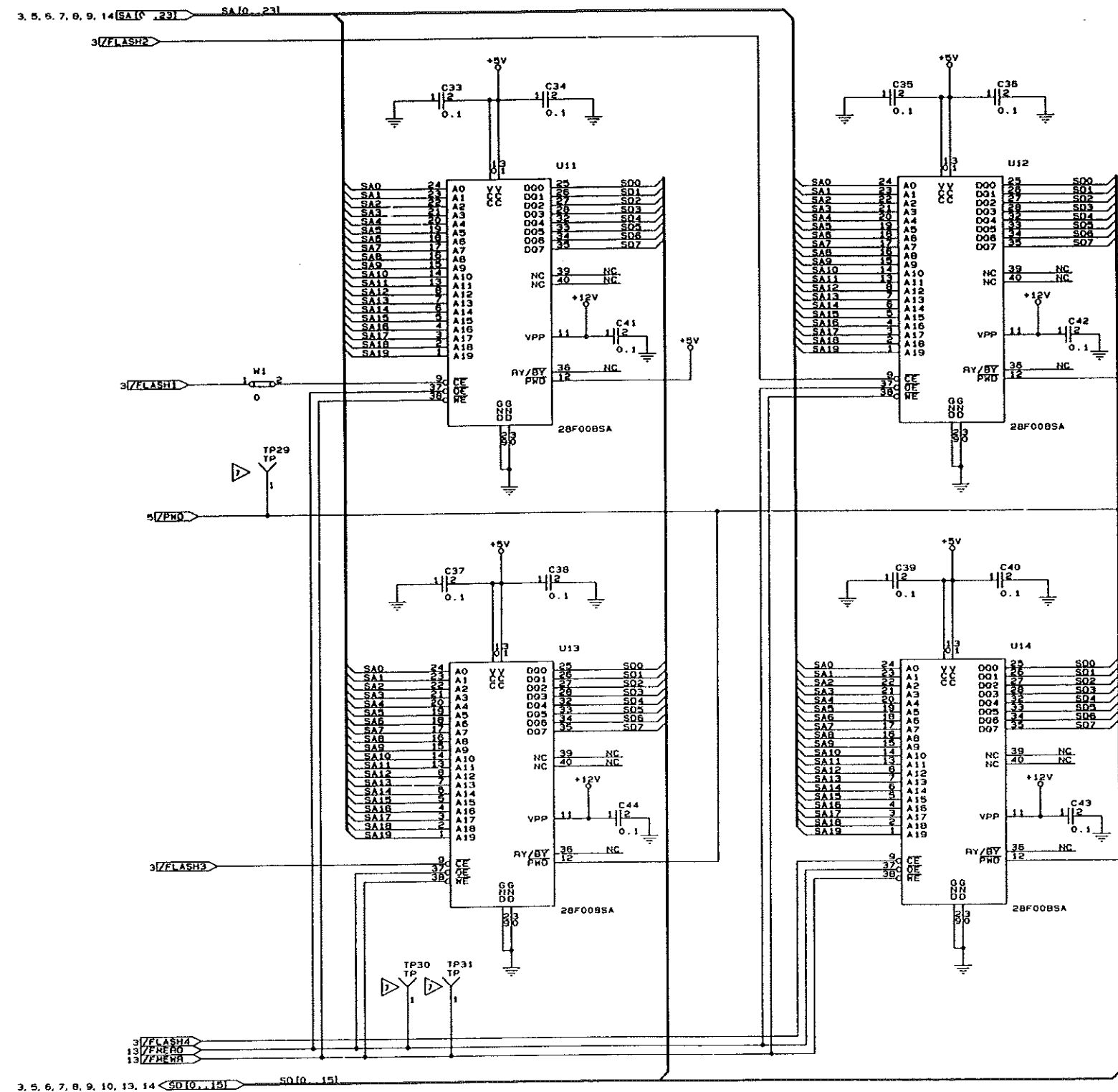
IC FUNCTIONS NOT USED:

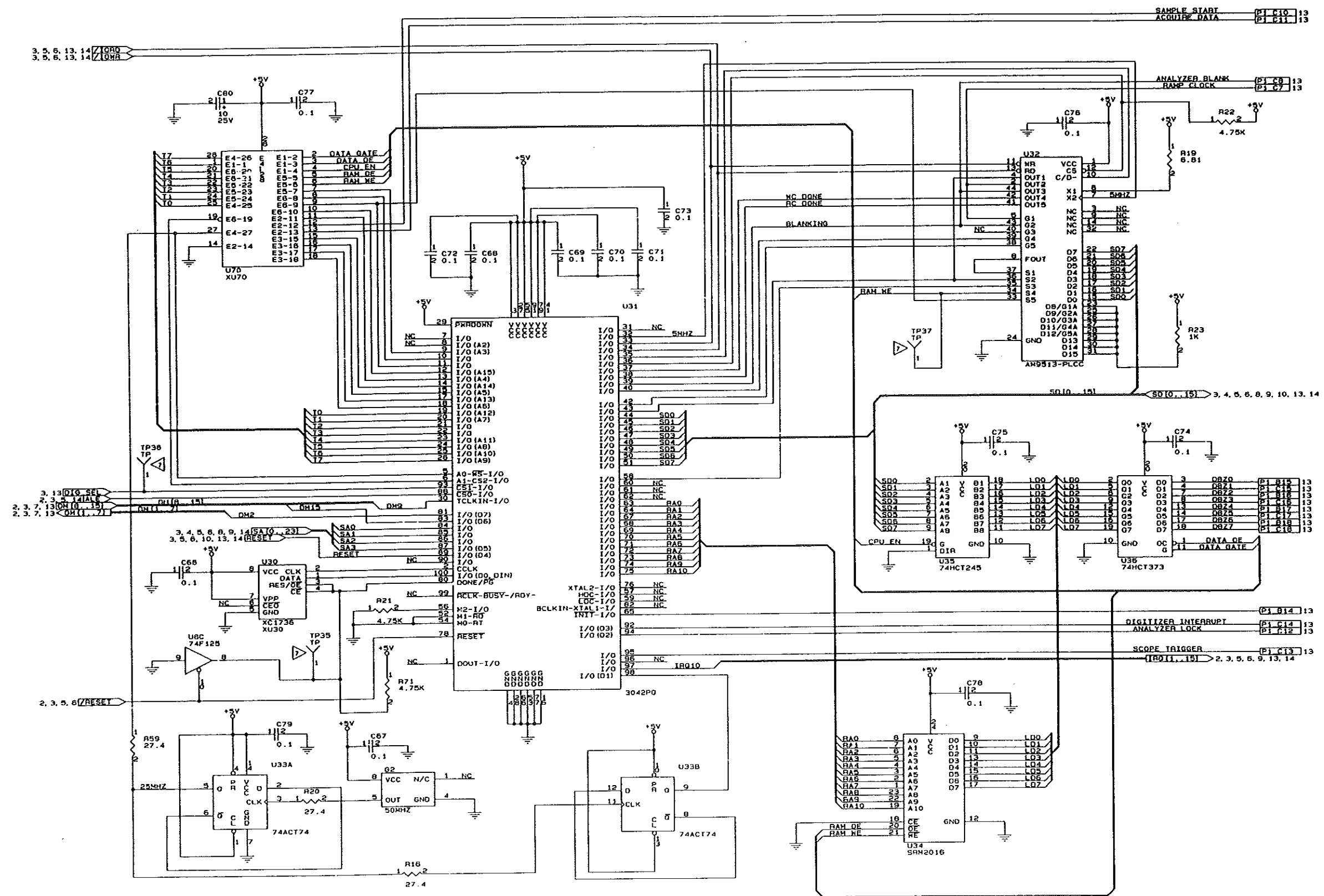


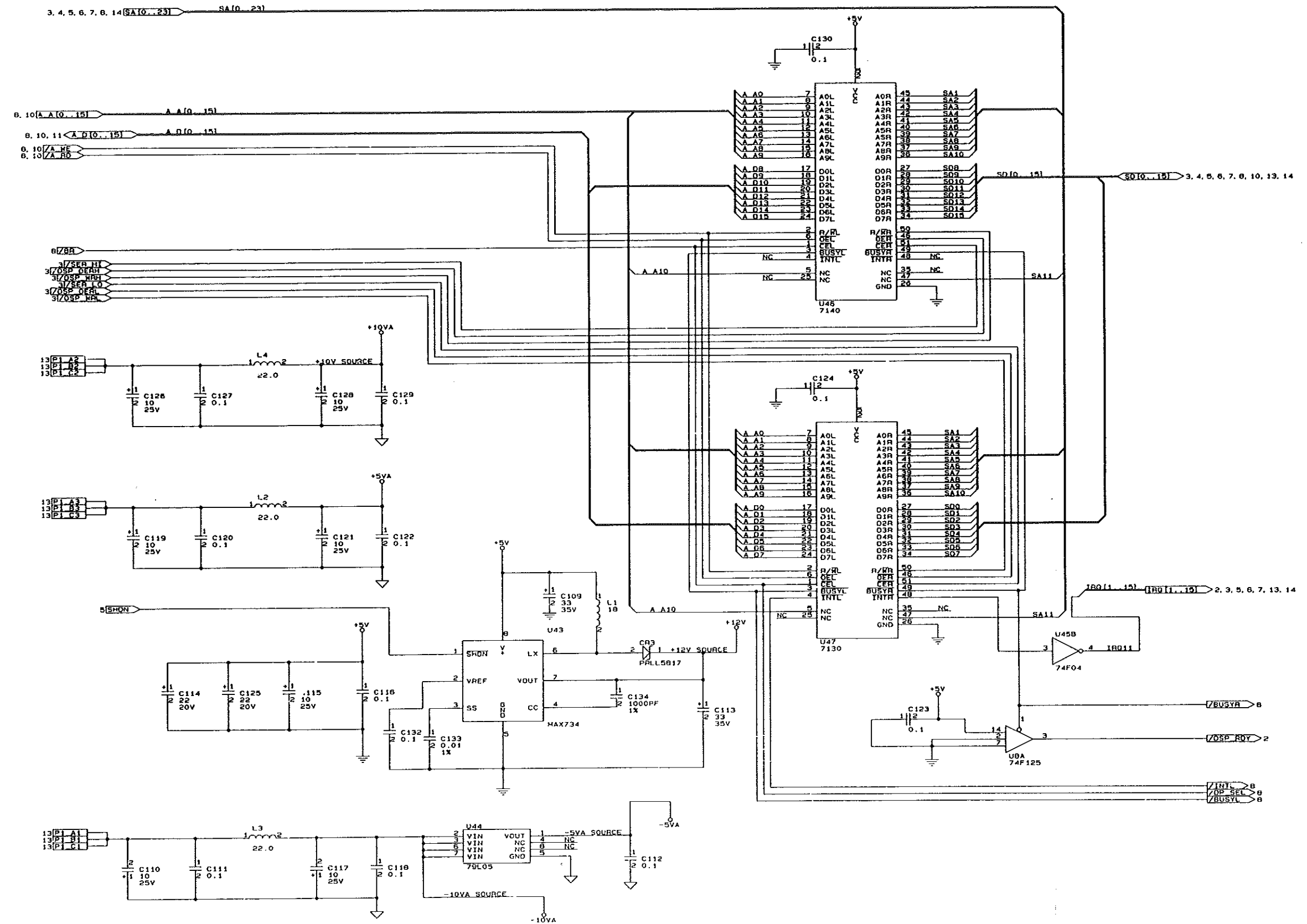
Drawn	Date	IFR SYSTEMS, INC.
Kyezhung Lee	4/12/95	DESIGNED BY KYEZHUNG LEE
Checked	Date	Title
OKB	4/27/95	CIRCUIT SCHEMATIC, CONTROLLER
Approved	Date	Size Document Number
Stan Peterson	4/27/95	C 0000-0832-200
Date	April 18, 1998	Sheet 1 of 1



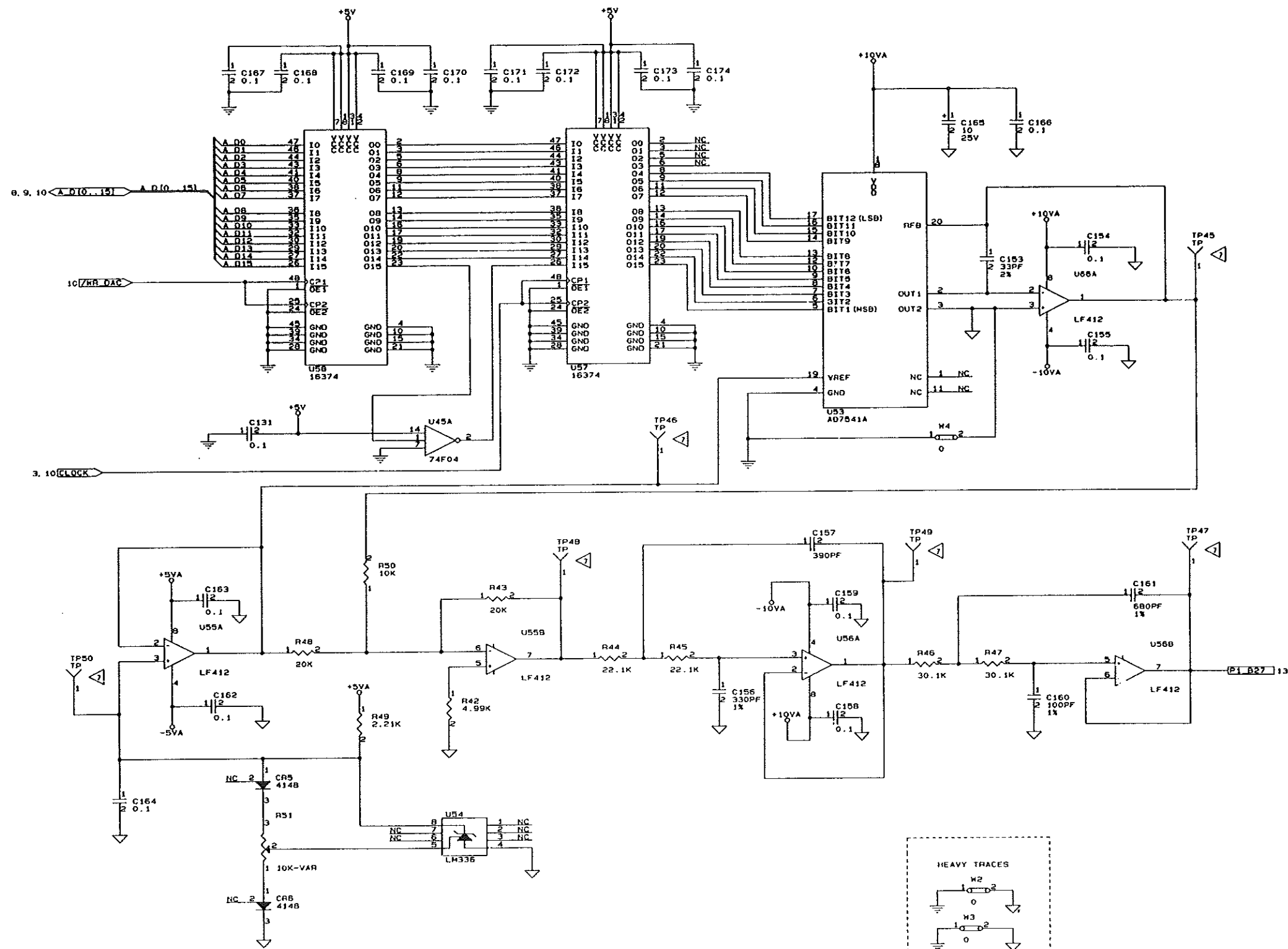




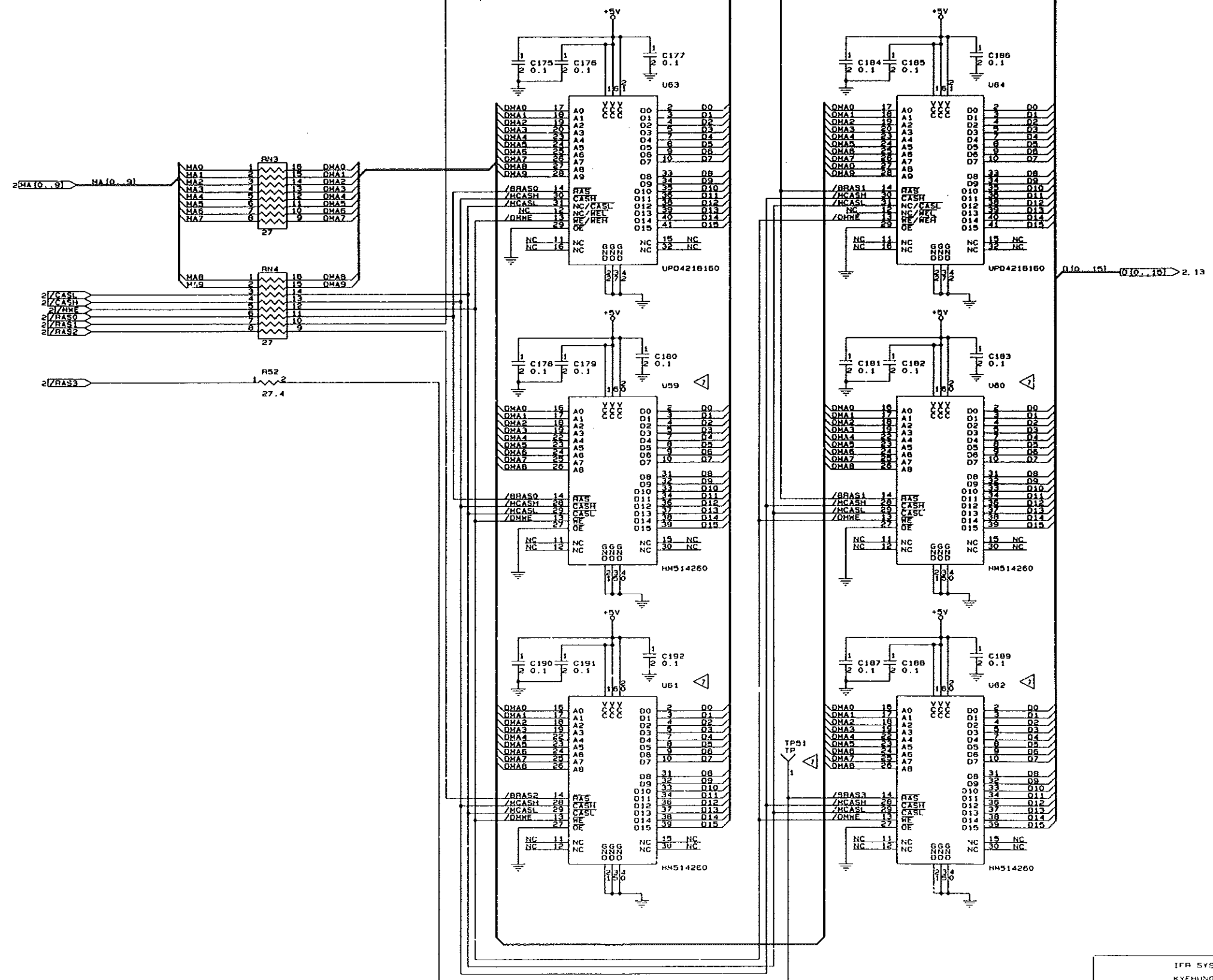




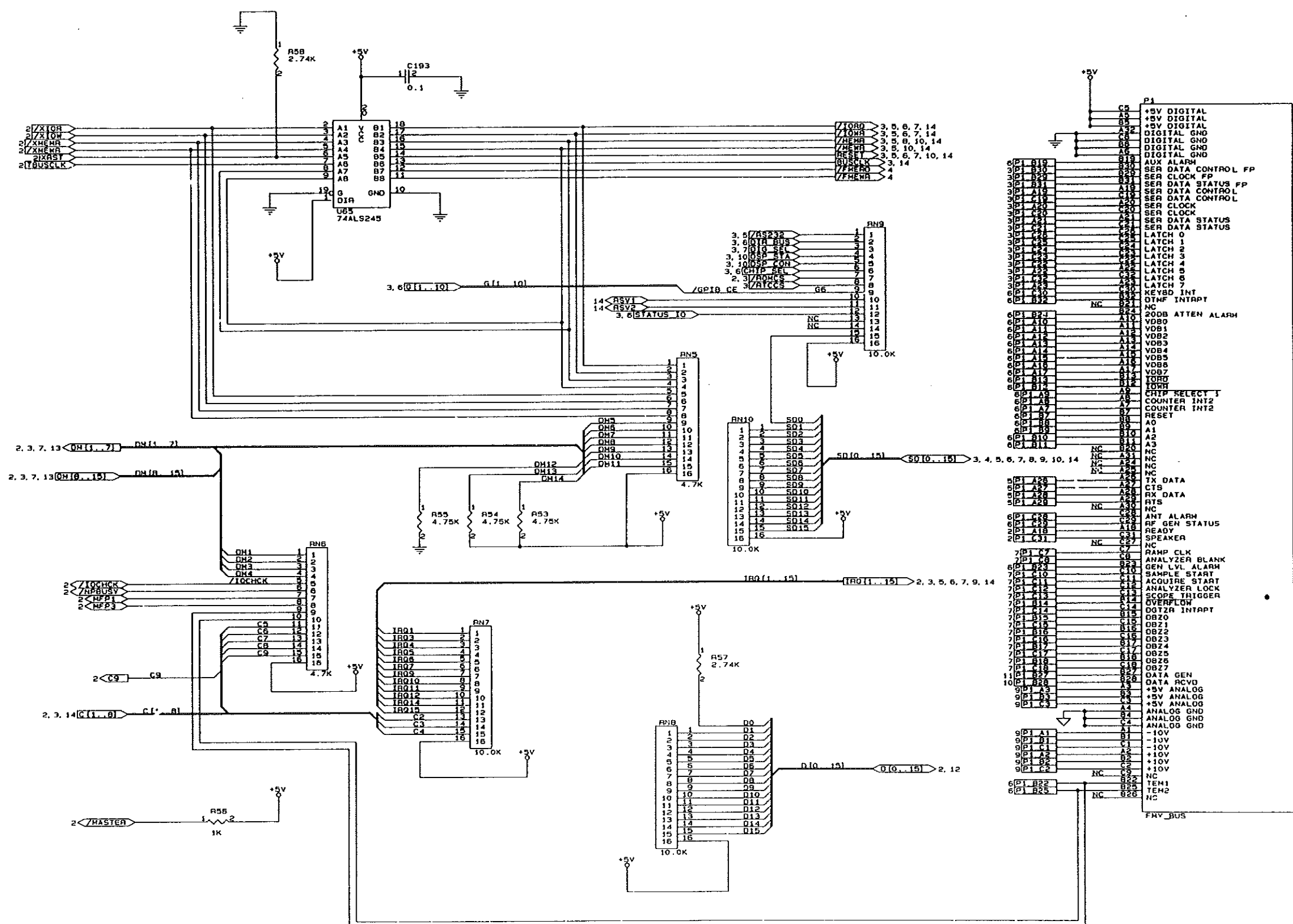
IFR SYSTEMS INC.			
Title			
CIRCUIT SCHEMATIC, CONTROLLER			
Size Document Number			
C 0000-0632-200			
Date			
April 10, 1998 Sheet			
9 of 14			



LFR SYSTEMS, INC.			
Title			
CIRCUIT SCHEMATIC, CONTROLLER			
Size	Document Number	REV	
C	0000-0632-200	A	
Date	April 10, 1995	Sheet	11 of 13

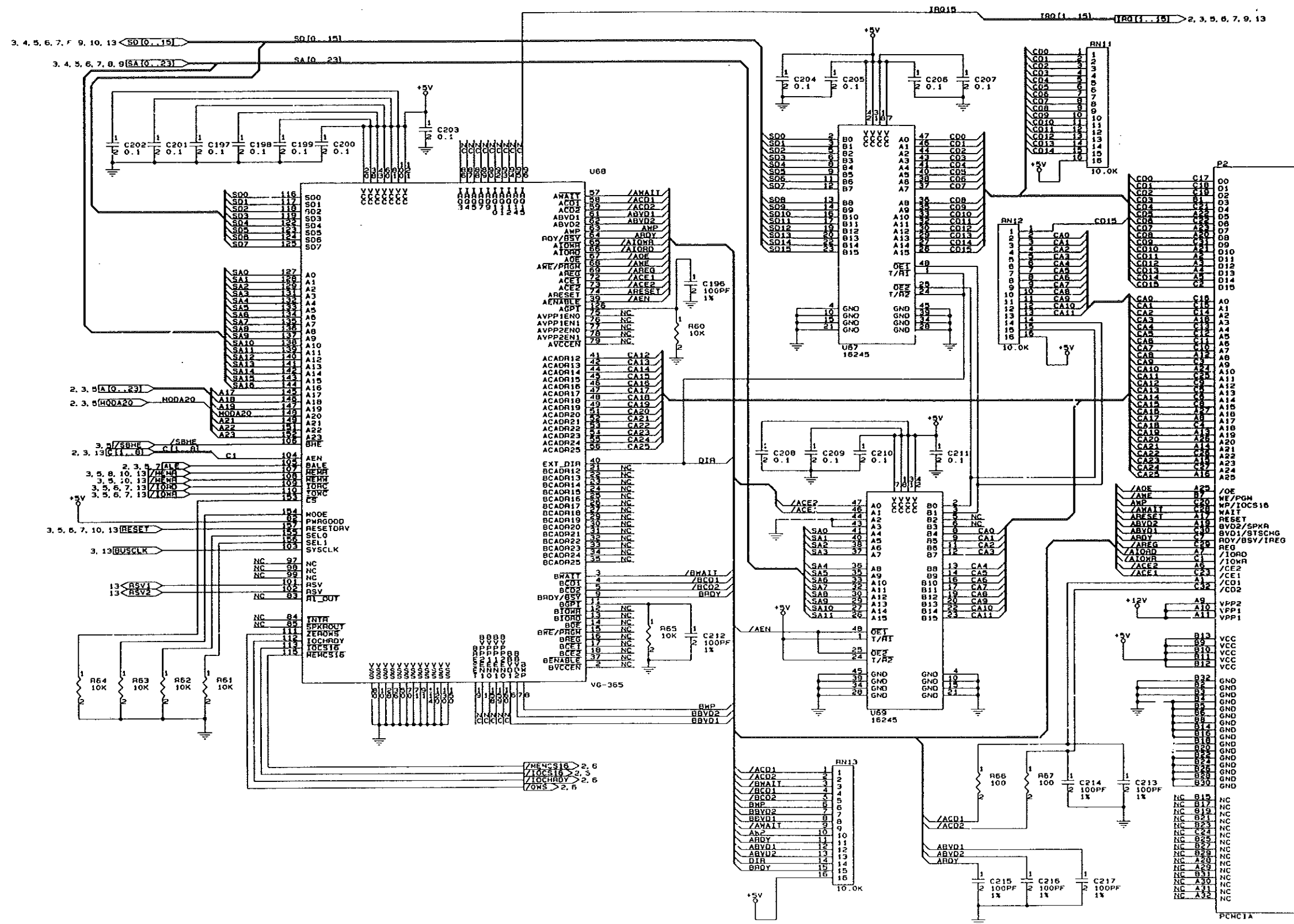


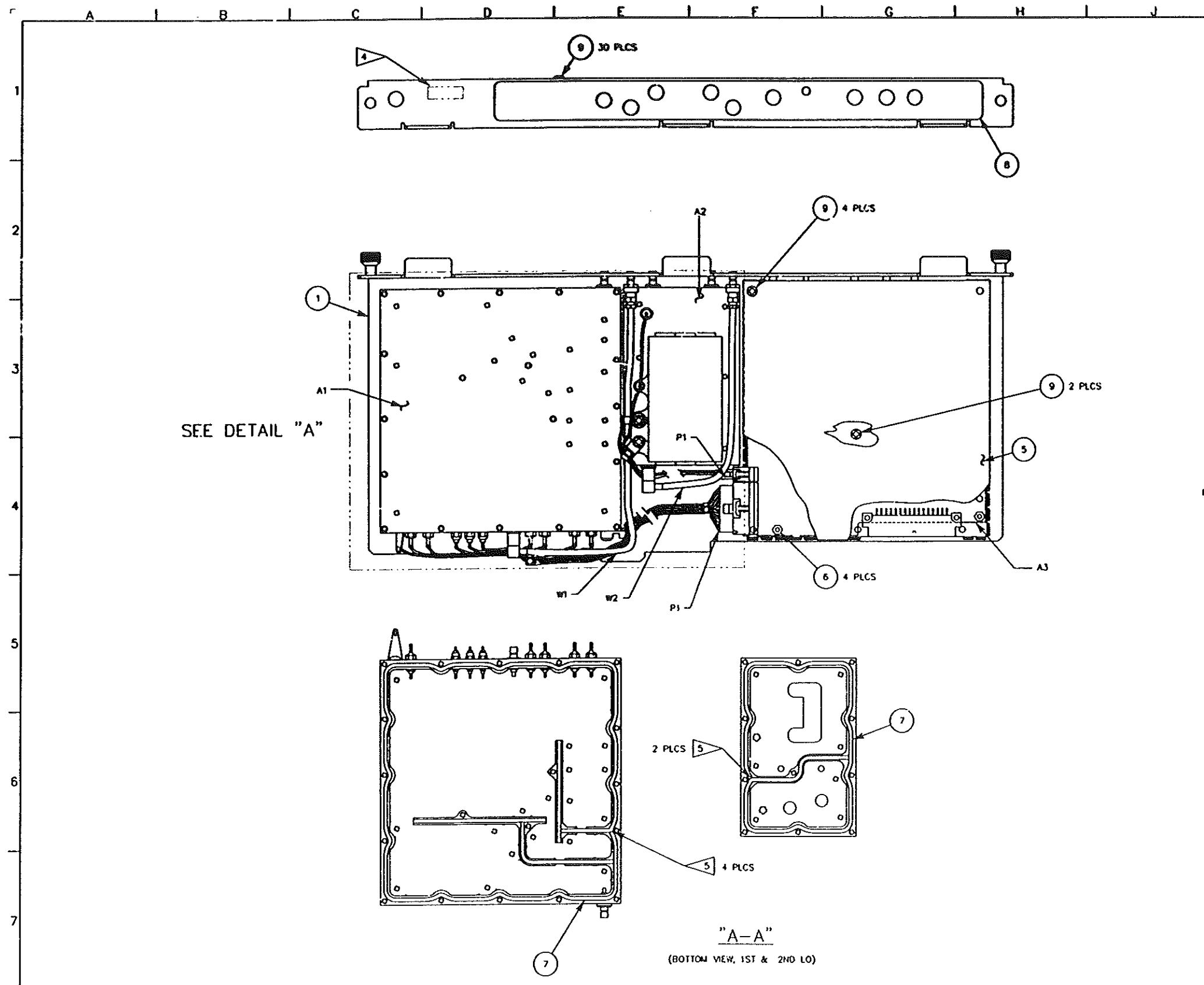
IFR SYSTEMS, INC.		
KYEUNG LEE		
Title		
CIRCUIT SCHEMATIC, CONTROLLER		
Size	Document Number	REV
C	0000-0632-200	A
Date	April 15, 1995	Sheet 12 of 13



FHY_BUF SCH

IFR SYSTEMS INC	
KESHUNG LEE	
Title CIRCUIT SCHEMATIC, CONTROLLER	
Size Document Number	REV
7 3090-0632-200	A
Date April 10, 1995	Sheet 13 of 13



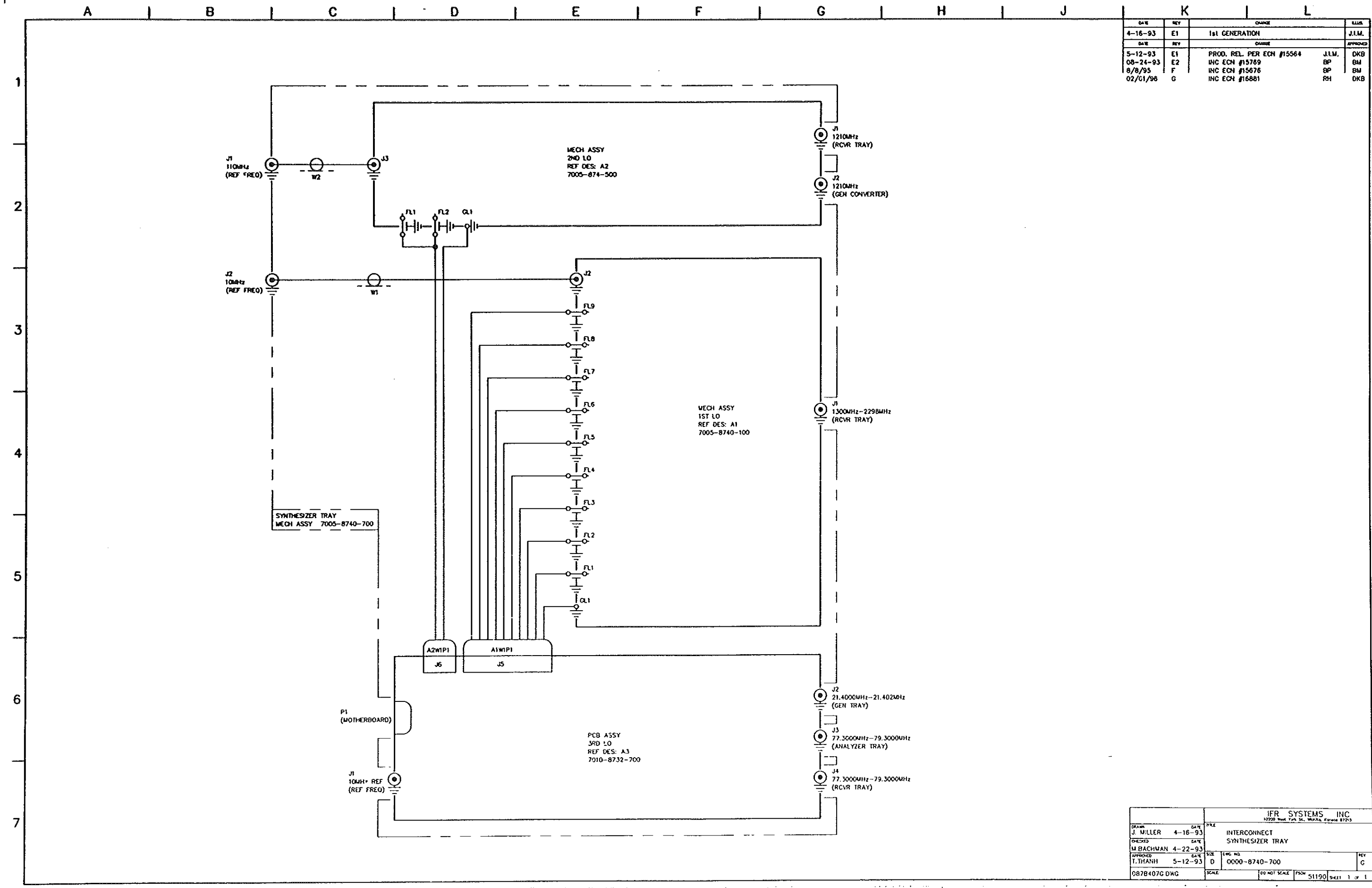


DATE	REV	DESCRIPTION	APP
8/17/92	E	DESIGN RELEASE RH	DKB
4/6/93	E1	PROD REL ECH 15564 RH	DKB
8/8/95	F	INC ECH 15676 BP	BM
02/01/98	G	INC ECH #16881 RH	DKB

NOTES:

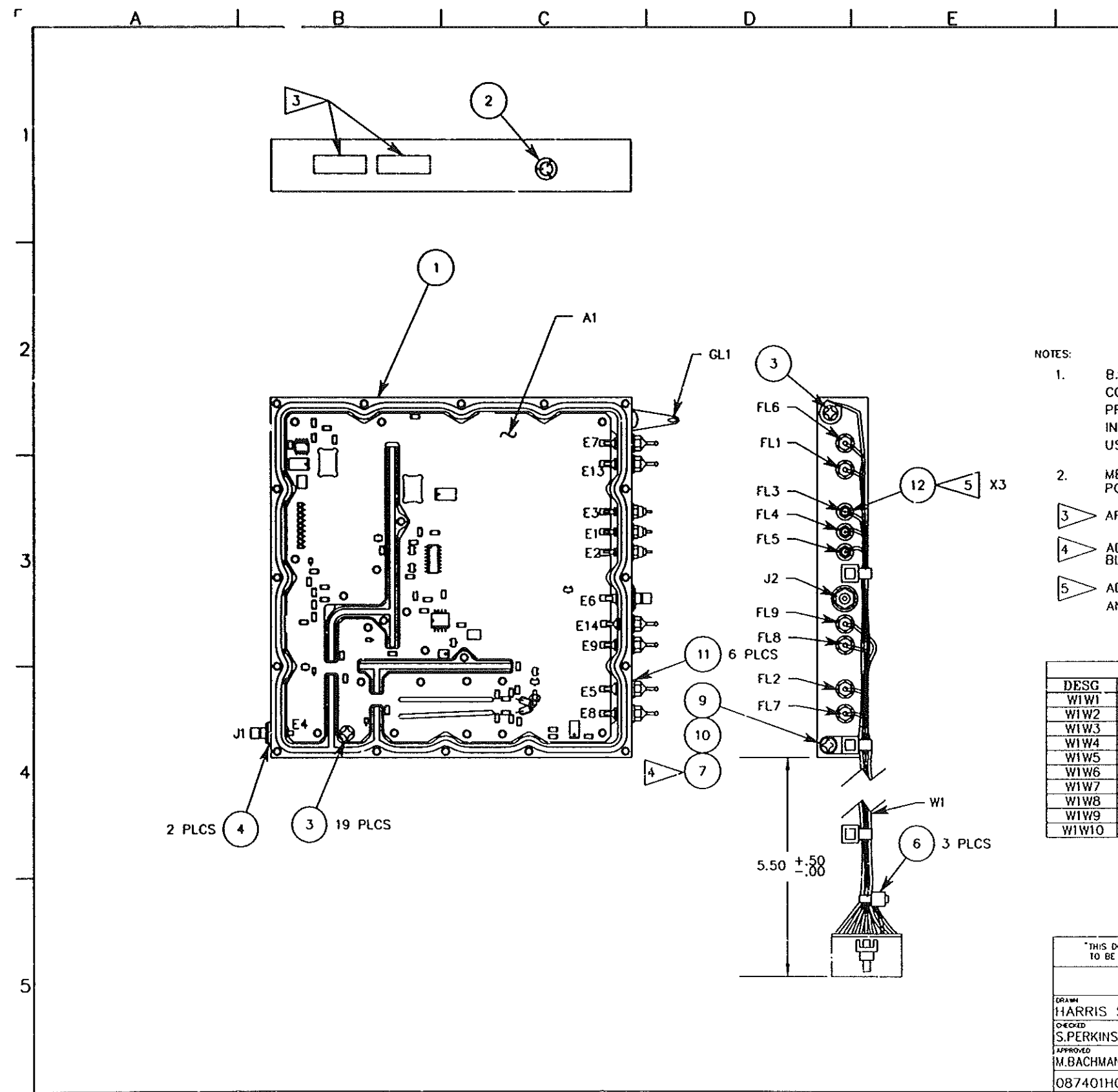
1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
2. REF. INTERCONNECT #0000-8740-700.
3. MECH. ASSY DRAWING SHOWS ONLY PORTIONS OF PC BD ASSY'S REQUIRED FOR REF ONLY.
4. AFFIX MODULE IDENTIFICATION LABEL HERE.
5. CUT ENDS OF GASKET MUST MEET UNDER COMPRESSION WHEN INSTALLED.

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF IFR, INC. AND IS NOT TO BE DISCLOSED, REPRODUCED, OR PUBLISHED WITHOUT IFR'S APPROVAL.			
IFR SYSTEMS, INC. 10000 West 10th St., Suite 200, Overland Park, KS 66213			
DATE HARRIS 7/17/92	REV D	TITLE MECH ASSY, SYNTHESIZER TRAY	
DATE D. BROOKS/SDH/01 8/14/92	REV D	QTY 1	QTY 1
DATE M. BACHMAN 8/14/92	REV D	7005-8740-700	
087407C0.0WG	1=1	1=1	1=1



DATE	REV	CHANGE	INITIAL
4-16-93	E1	1st GENERATION	J.L.M.
DATE	REV	CHANGE	APPROVED
5-12-93	E1	PROD. REL. PER ECH #15564	J.L.M.
08-24-93	E2	INC ECH #15789	BP
8/8/95	F	INC ECH #15676	BP
02/01/96	G	INC ECH #16881	RH

JFR SYSTEMS INC			
10220 West Van St., Van Nuys, CA 91411			
DESIGN	DATE	FILE	
J. MILLER	4-16-93	INTERCONNECT	
CHECKED	DATE	SYNTHESIZER TRAY	
M.BACHUAN	4-22-93		
APPROVED	DATE	SER. NO.	REV
T. THANH	5-12-93	0000-8740-700	G
087B407C DWG		SCALE	SHEET 1 OF 1



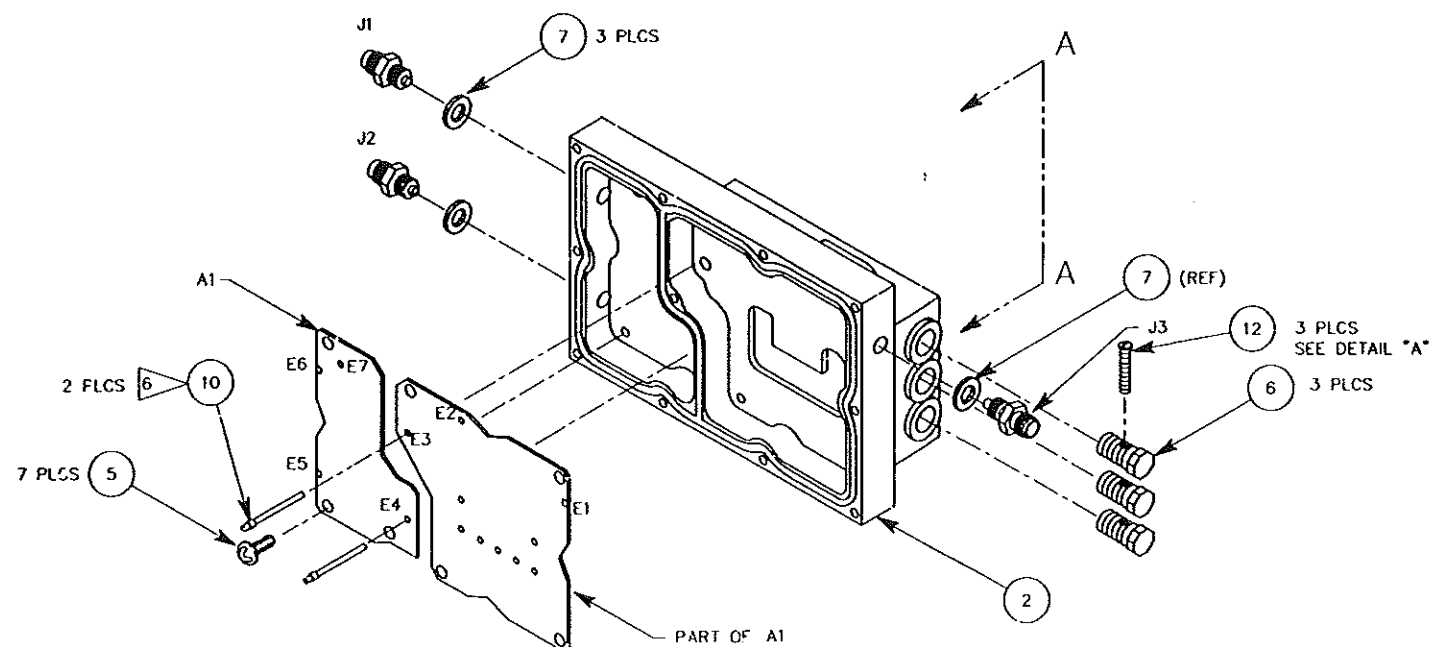
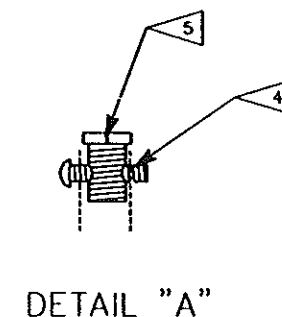
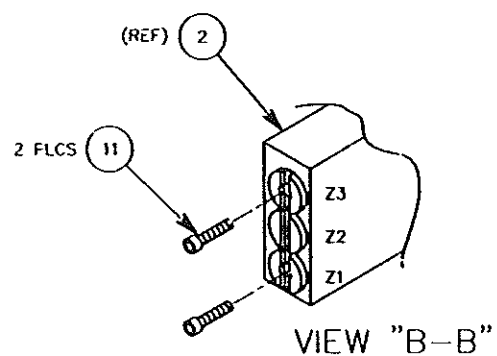
DATE	REV	CHANGE	BY	APP'D
9/22/92	F	DESIGN RELEASE	RH	DKB
10/26/92	F1	INC FMY-047	RH	DKB
12/14/92	F2	INC FMY-084	RH	DKB
1/28/93	G	INC FMY-073	RH	DKB
04/13/93	G1	PROD. REL. PER ECN 15564	BP	DKB
08/23/93	G2	INC ECN 15769	BP	BM
04/04/95	H	INC ECN 16477	RH	BM

- NOTES:
- BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 - MECH. ASS'Y DRAWING SHOWS ONLY PORTIONS OF PC BD ASSY'S REQUIRED FOR REF. ONLY.
 - ▲ AFFIX MODULE IDENTIFICATION LABELS HERE.
 - ▲ ADD WASHER ITEM #7 BETWEEN TYRAP AND BLOCK ITEM #10.
 - ▲ ADD WASHER (12) BETWEEN FL3, FL4, FL5 AND BLOCK (1) TORQUE @ 32 IN/OZ.

WIRE RUNNING LIST				
DESG	FROM	TO	COLOR	AWG
WIW1	P1-01	FL6	RED	26
WIW2	P1-02	FL7	YELLOW	26
WIW3	P1-03	FL8	VIOLET	26
WIW4	P1-04	FL1	BLUE	26
WIW5	P1-05	FL4	VIO/WHT	26
WIW6	P1-06	FL5	BRN/WHT	26
WIW7	P1-07	FL3	RED/WHT	26
WIW8	P1-08	FL2	GRN/WHT	26
WIW9	P1-09	FL9	ORN	26
WIW10	P1-10	GL1	BLK	26

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF IFR, INC. AND IS NOT TO BE DISCLOSED, REPRODUCED, OR PUBLISHED WITHOUT IFR'S APPROVAL.				
IFR SYSTEMS, INC. 10200 West York St., Wichita, Kansas 67215				
DRAWN HARRIS 5/18/92	DATE	TITLE MECH ASSY, 1ST LO		
CHECKED S.PERKINS 8/18/92	DATE			
APPROVED M.BACHMAN 9/22/92	DATE	SIZE C	DWG. NO. 7005-8740-100	REV H
087401H0.DWG	PLOT SCALE: 1=1	SCALE 1=1	CAGE 51190	SHEET 1 of 1

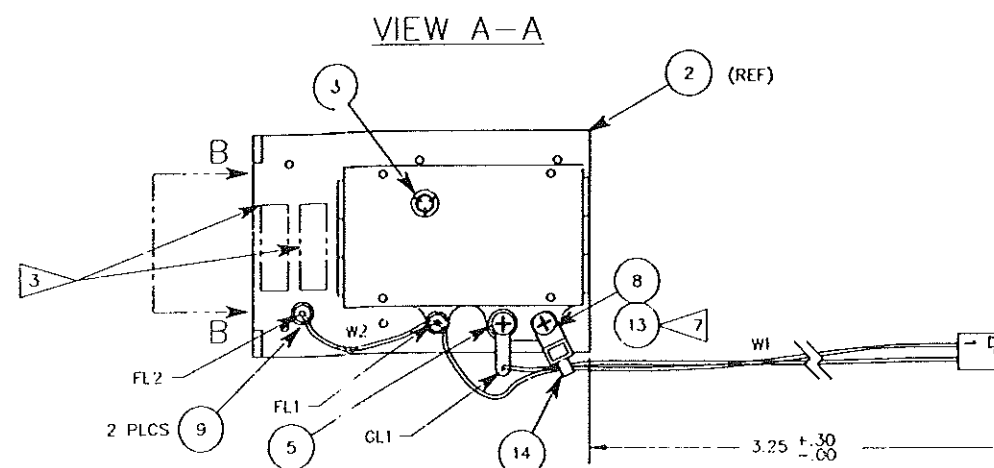
DATE	REV	DESCRIPTION	BY	CHKD
8/17/92	F	DESIGN RELEASE	RH	DKB
10/26/92	F1	INC FMY-048	RH	DKB
1/4/93	F2	INC FMY-095	RH	DKB
04/07/93	F3	PROD REL PER ECH 15564	BP	DKB
08/23/93	F4	PRODUCT EQUAL TO F5		
11/17/93	F5	INC ECH 15769 & 15769A	BP	BM



NOTES:

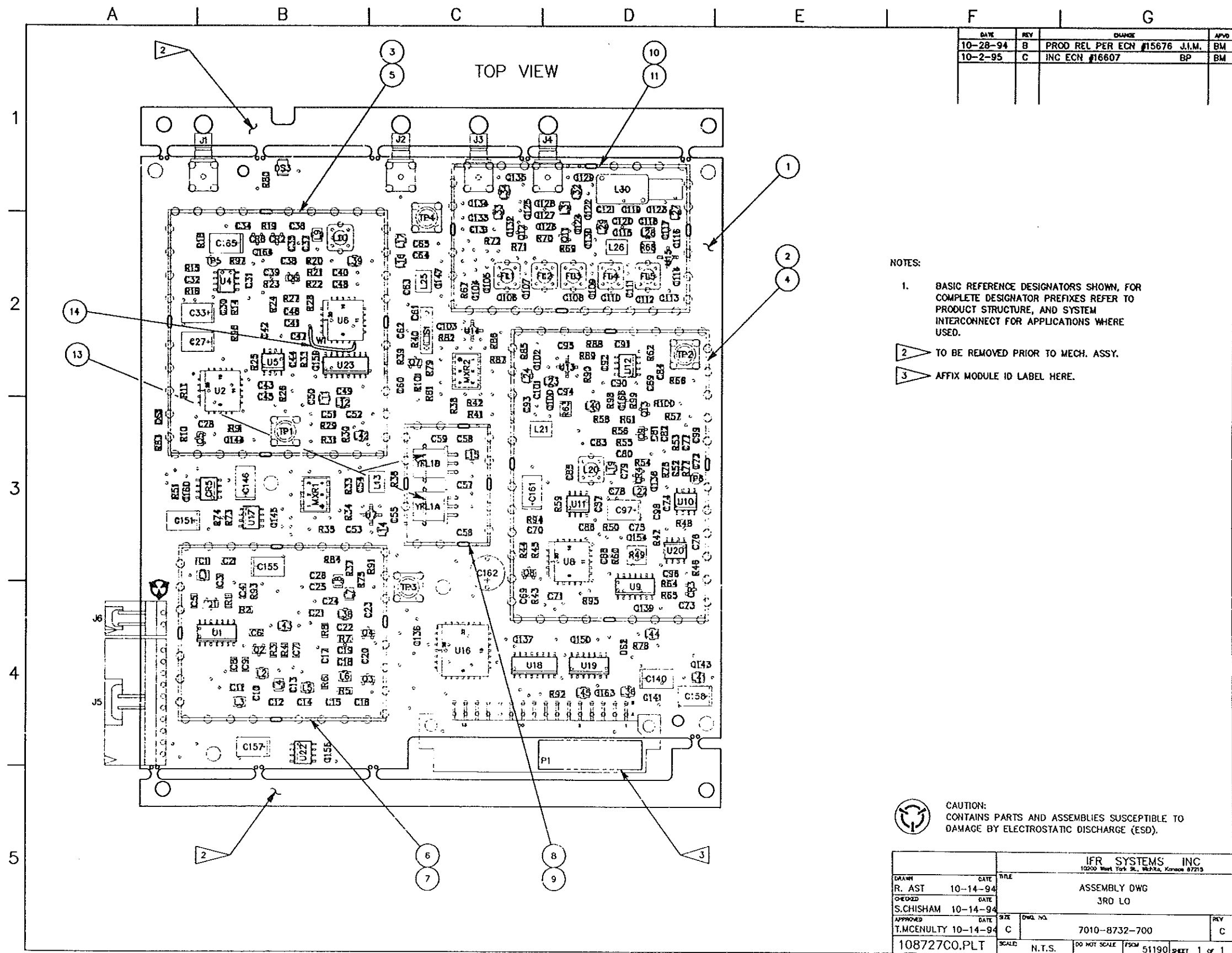
- BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
- MECH. ASS'Y DRAWING SHOWS ONLY PORTIONS OF PC BD ASS'YS REQUIRED FOR REF. ONLY.
- AFFIX MODULE IDENTIFICATION LABELS HERE.
- THREAD NYLON SCREW INTO SLUG UNTIL THREADS ARE EXTENDING PAST SLUG ABOUT EQUAL DISTANCE, CUT OFF BOTH ENDS OF SCREW FLUSH TO SLUG THREADS.
- SCREW ITEM 6 INTO BLOCK HALF THE LENGTH OF THREADED AREA ONLY.
- PINS ARE TO BE FULLY INSERTED INTO TUNING POLE. CUT OFF EXCESS PIN.
- ADD WASHER ITEM #13 BETWEEN ITEM #8 AND ITEM #14

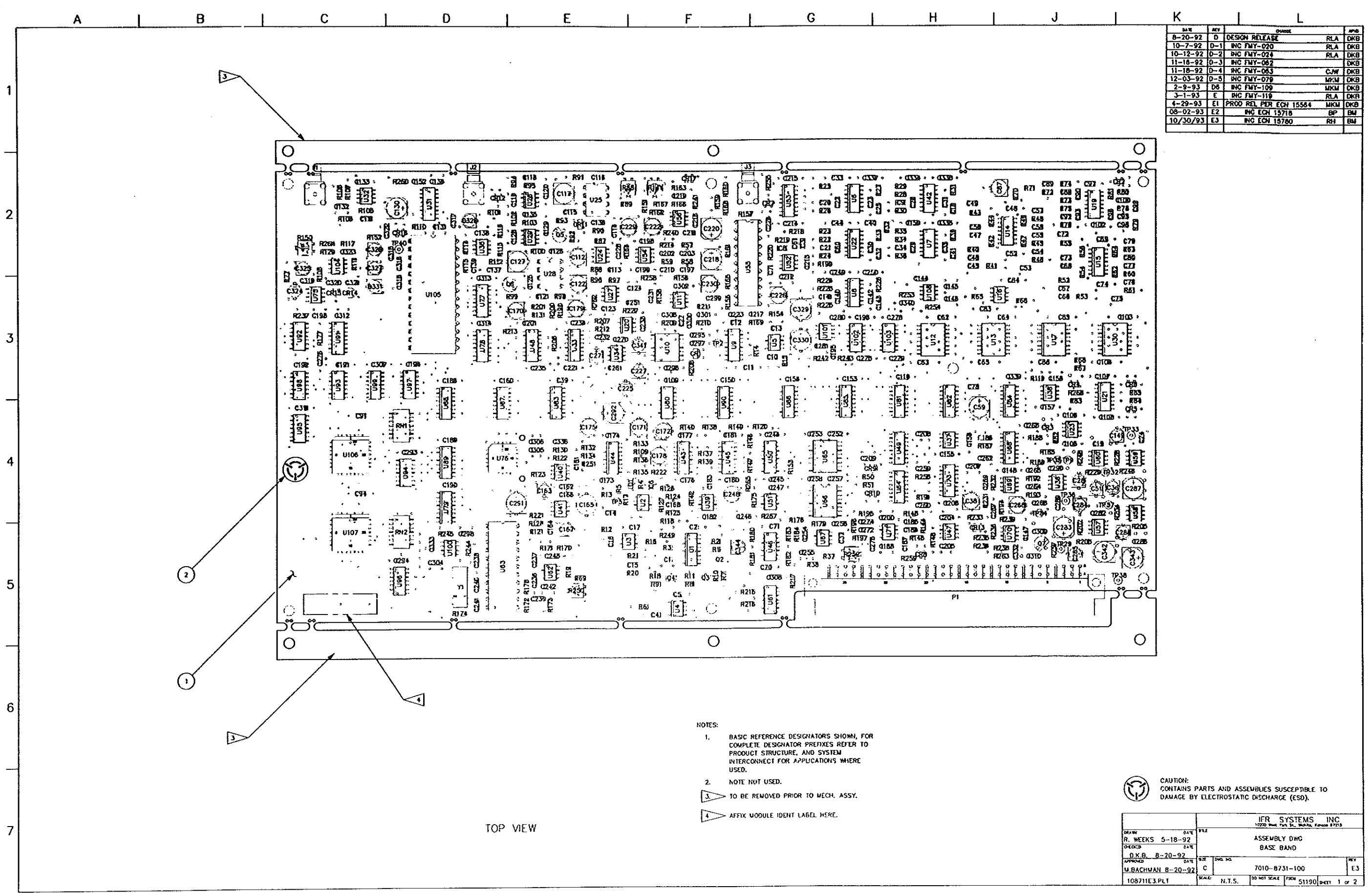
WIRE RUNNING LIST				
DESC	FROM	TO	COLOR	AWG
WIW1	P1-01	FL1	RED	26
WIW2	P1-02	GL1	BLACK	26
W2	FL1	FL2	RED	26



CAUTION:
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD).

IFR SYSTEMS, INC.				
15000 Hunt Tech St., World Center #225				
DATE HARRIS 4/20/92	FILE	MECH ASSY, 2ND LO		
DESIGNED O.BRONSCHMOT 8/17/92	DATE			
APPROVED M.BACHMAN 8/17/92	DATE	DWG NO. 7005-8740-500	REV F5	
087105F5.DWG	PLT	SCALE 1=1	CAGE 51190	SHEET 1 of 1



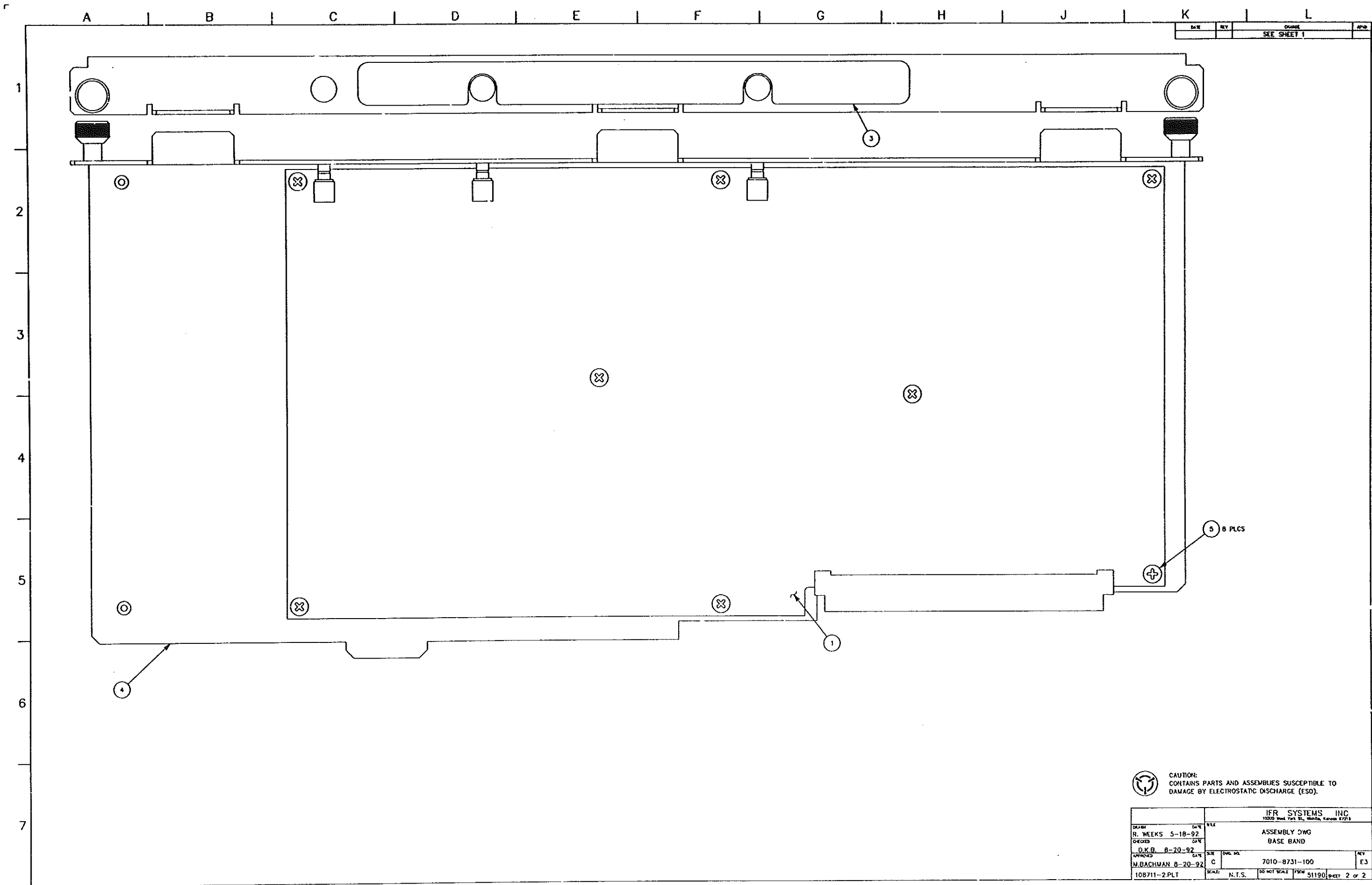


REV	DATE	DESCRIPTION	BY	CHKD
8-20-92	D	DESIGN RELEASE	RLA	DKB
10-7-92	D-1	INC FMY-020	RLA	DKB
10-12-92	D-2	INC FMY-024	RLA	DKB
11-18-92	D-3	INC FMY-062	DKB	
11-18-92	D-4	INC FMY-063	CJM	DKB
12-03-92	D-5	INC FMY-079	WPM	DKB
2-9-93	D6	INC FMY-109	WKM	DKB
3-1-93	E	INC FMY-119	RLA	DKB
4-29-93	E1	PROD REL PER ECH 15564	WKM	DKB
08-02-93	E2	INC ECH 15718	BP	BM
10/30/93	E3	INC ECH 15760	RH	BM

- NOTES:
1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 2. NOTE NOT USED.
 3. TO BE REMOVED PRIOR TO MECH. ASSY.
 4. AFFIX MODULE IDENT LABEL HERE.

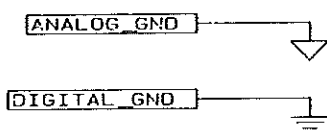
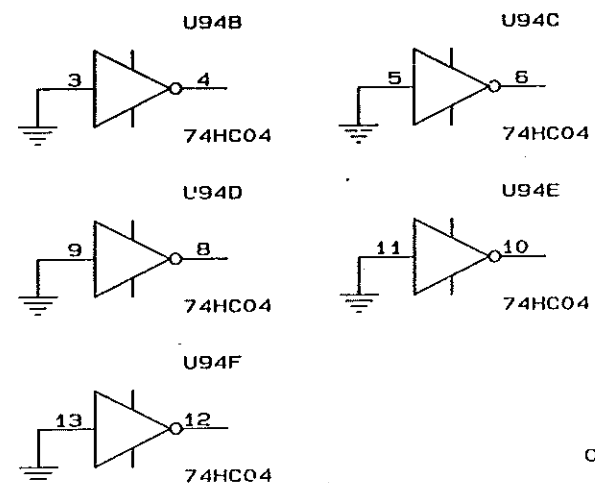
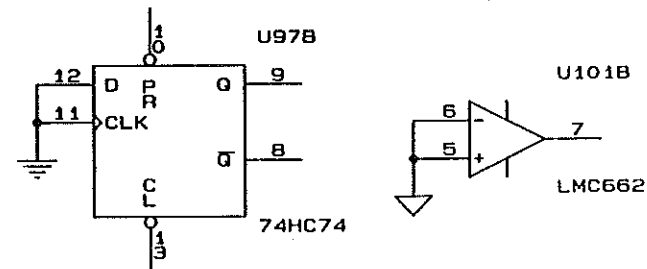
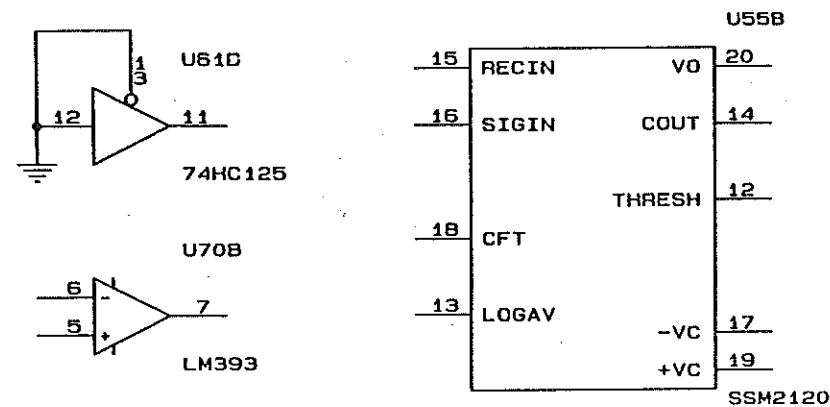
CAUTION:
CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO
DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).

IFR SYSTEMS, INC.			
1000 West Park Dr., Suite 100, Elgin, IL 60120			
DATE	FILE	ASSEMBLY DWG	
R. WEEKS 5-18-92		BASE BAND	
DATE	REV	DWG NO.	REV
D.K.B. 8-20-92	C	7010-8731-100	E3
APPROVED	DATE	SCALE	DO NOT SCALE FROM 51190
M.BACHMAN 8-20-92			
108711E3.PLT			SHEET 1 OF 2



IFR SYSTEMS INC. 10000 West 1st St., Omaha, Nebraska 68131			
DESIGN R. WEEKS 5-18-92	DATE	TITLE ASSEMBLY DWG BASE BAND	
CHECKED D.K.B. 8-20-92	DATE	SIZE C	DWG. NO. 7010-8731-100
APPROVED N.BACHMAN 8-20-92	DATE	SCALE N.T.S.	REV E3
108711-2-PLT	DO NOT SCALE FROM	51190	SHEET 2 OF 2

8. IC FUNCTIONS NOT USED:



OrCAD Note: Only link first 6 files when generating a net list.

LINK
PAL.SCH
AGC.SCH
PK-DET.SCH
BB2.SCH
BB10.SCH
FILTERS.SCH
BLOCK1.SCH
BLOCK2.SCH
BLOCK3.SCH
BITS.SCH

COVER.SCH

DRAWN BY: DON J. BELISLE	DATE: 8-20-92	IFR SYSTEMS, INC. 10200 W. York St. Wichita, KS 67215	
CHECKED BY: DEB BROKSCHMIDT	DATE: 8-20-92	Title Schematic, BASEBAND	
APPROVED BY: STAN PIERSON	DATE: 8-20-92	Size B	Document Number 0000-8731-100
		Date: November 15, 1993	Sheet 1 of 11

DATE	REV	CHANGE	APPROVED
10-7-92	D-1	INC FMY-020	D.K.BROKSCHMIDT
10-12-92	D-2	INC FMY-024	D.K.BROKSCHMIDT
11-16-92	D-3	INC FMY-062	D.K.BROKSCHMIDT
12-3-92	D-4	INC FMY-079	D.K.BROKSCHMIDT
3-24-93	E	INC FMY-119	D.K.BROKSCHMIDT
5-7-93	E-1	PROD REL per ECN15564	D.K.BROKSCHMIDT
8-9-93	E-2	INC ECN 15718	B. McVICAR
11-16-93	E-3	INC ECN 15780	B. McVICAR



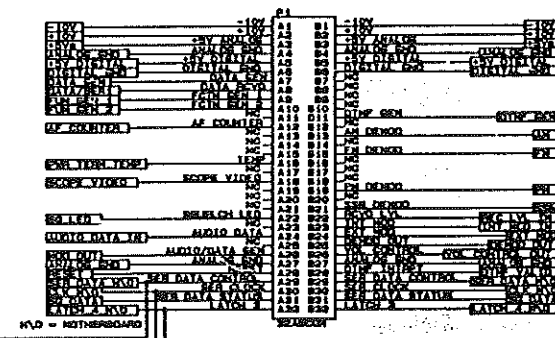
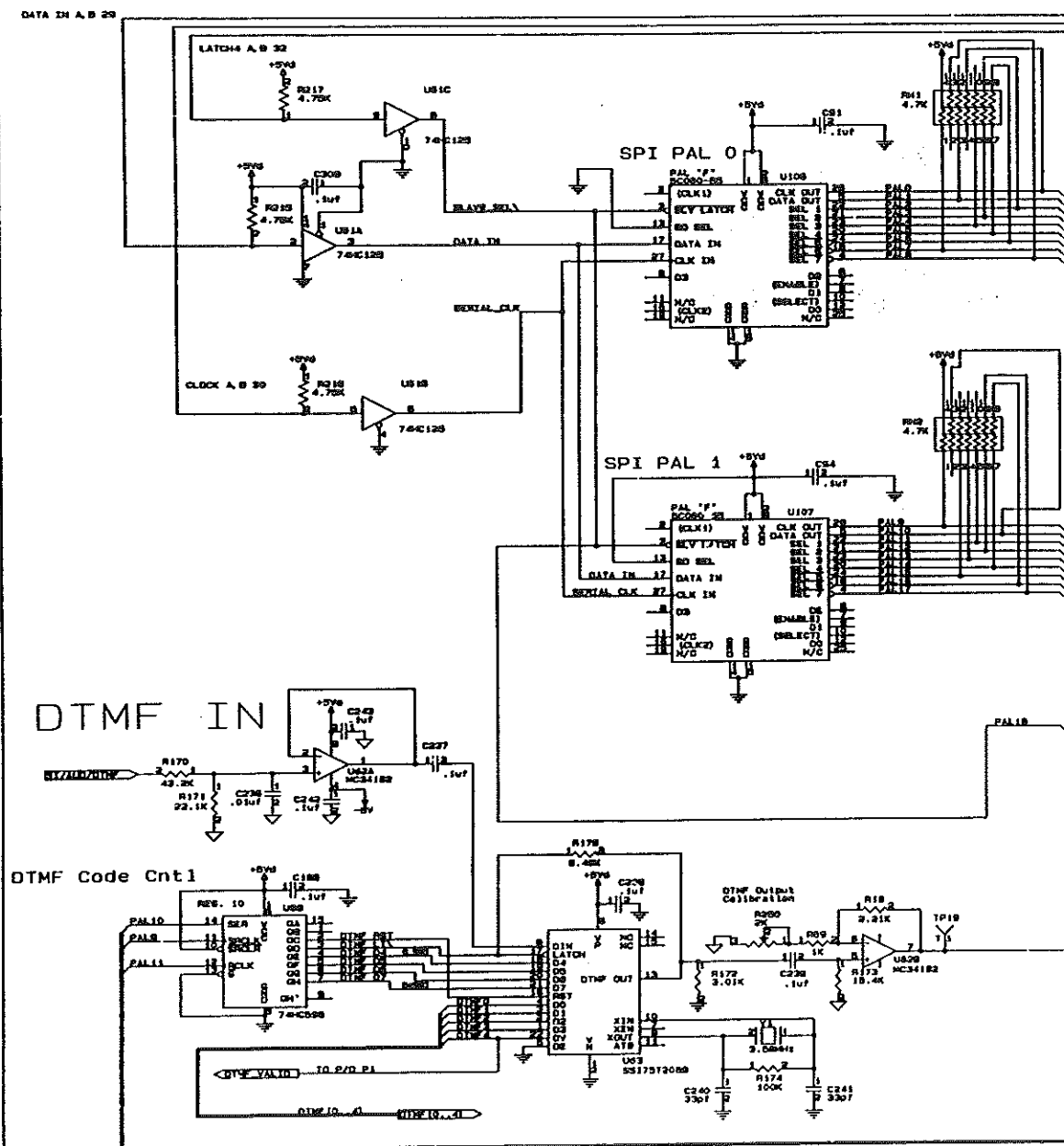
CAUTION:

CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD).

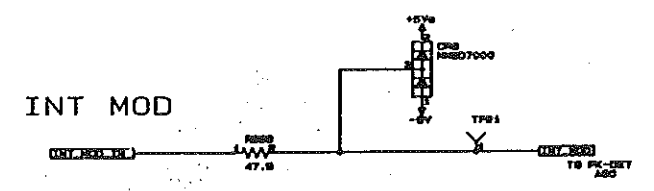
NOTES: (UNLESS OTHERWISE SPECIFIED)

- BASIC REFERENCE DESIGNATORS SHOWN. FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
- ALL RESISTORS ARE 1%, 1/8W.
- ALL RESISTANCE IS EXPRESSED IN OHMS.
ALL CAPACITANCE IS EXPRESSED IN MICROFARADS.
ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.
- HIGHEST REFERENCE DESIGNATIONS:
C344, CR17, J3, P1, Q7, R267, RN2,
TP40, U108, W1, Y1
- REFERENCE DESIGNATIONS NOT USED:
C42, C43, C56, C81, C82, C101, C151, C169, C277,
R198, R230, R247, R261, TP4, U18, U72, U74
- FOR INTERCONNECT/BLOCK DIAGRAM SEE APPLICATIONS WHERE USED.
- U6, U7, U14, U15, U19, U21, U22, U42, & U46
CAN BE MC33184 OR TL064.
U8 CAN BE MC33184 OR TL084.

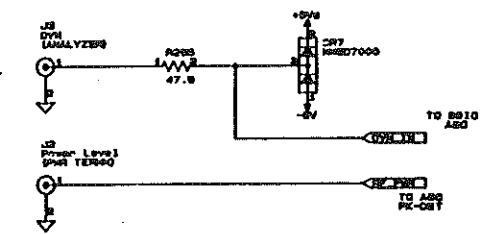
BASEBAND LOGIC #1



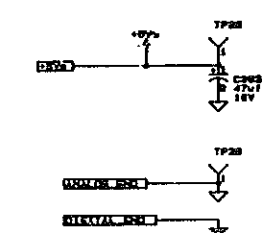
INT MOD



DVM IN FRONT PANEL



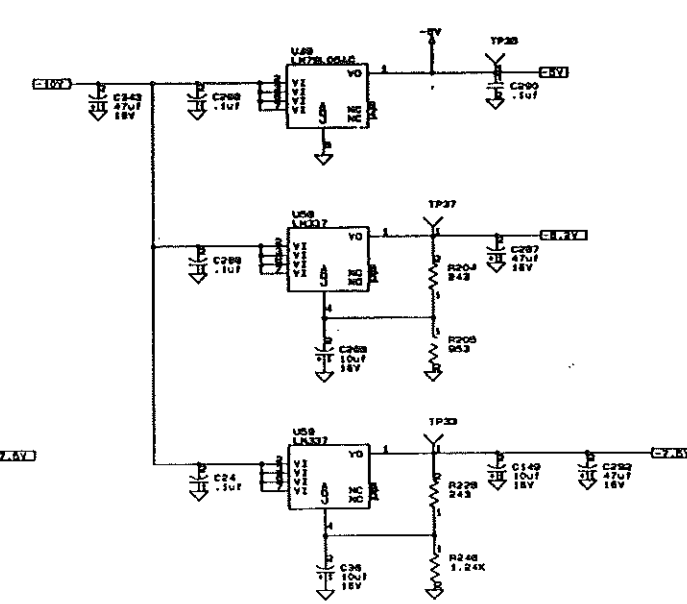
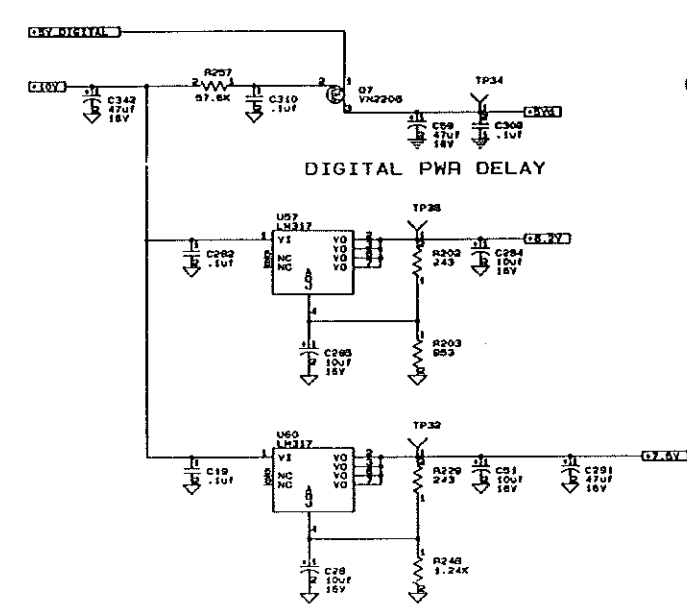
RF PWR IN

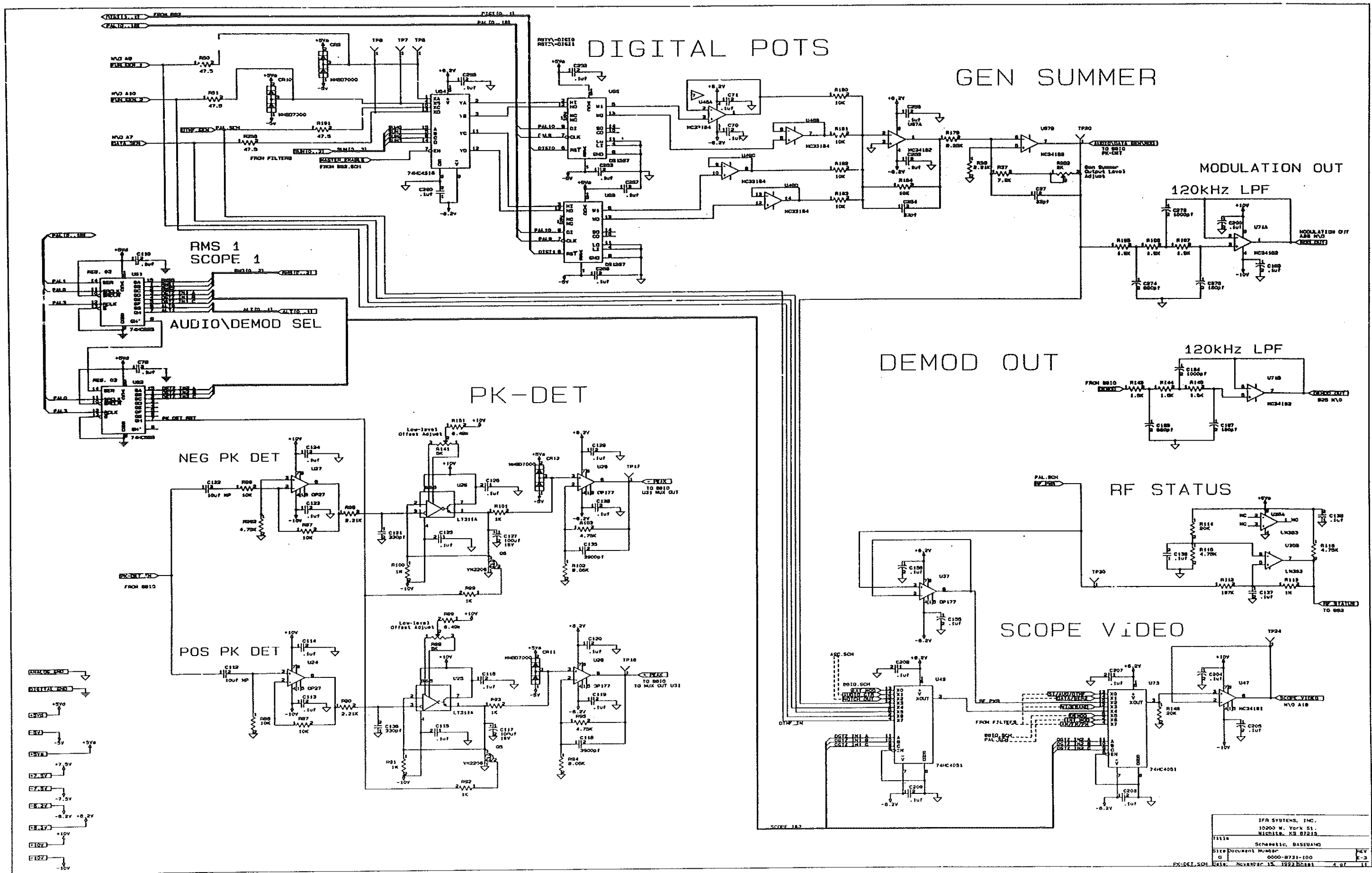


PAL BUS

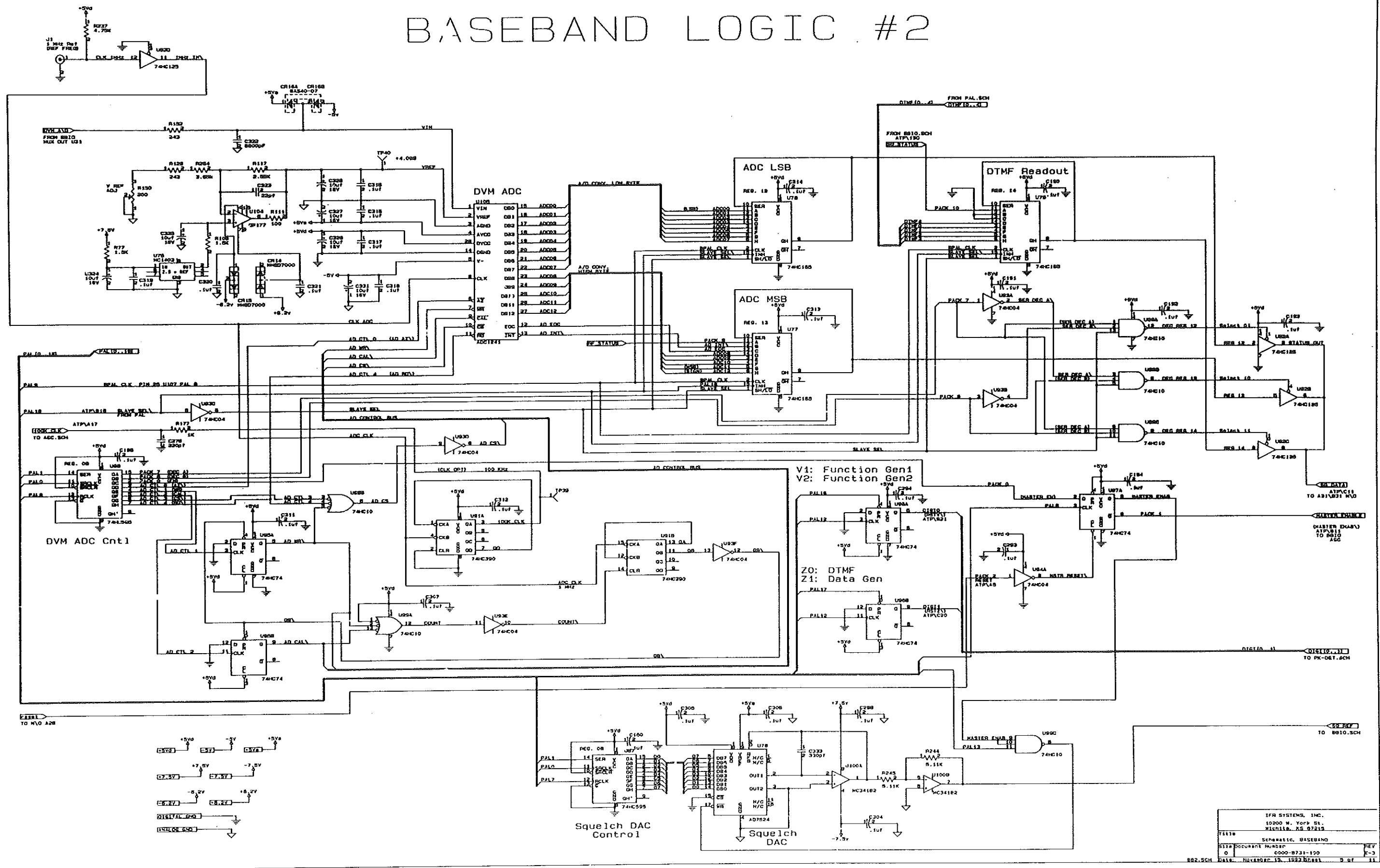
DTMF GEN

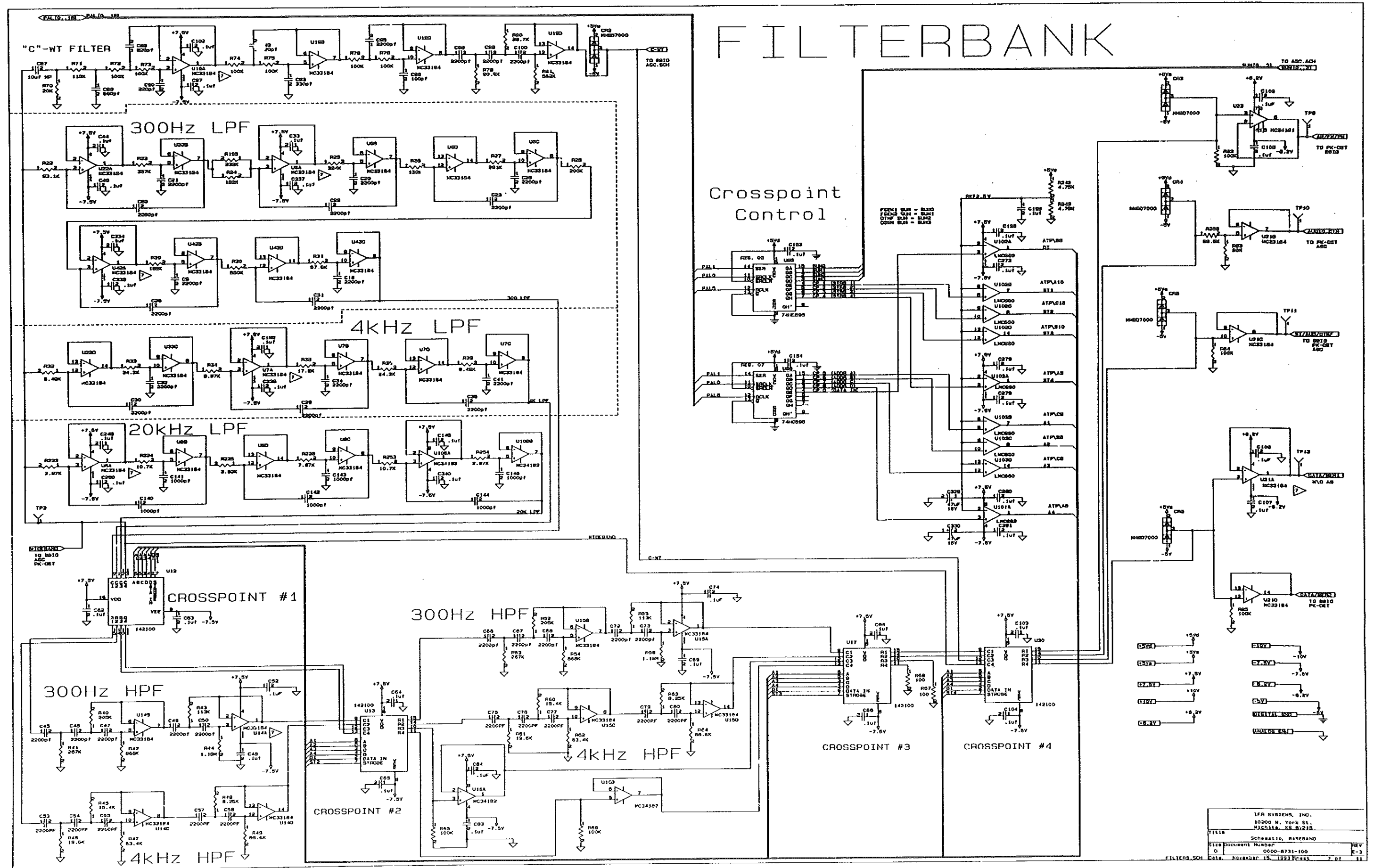
SUB REGULATORS





BASEBAND LOGIC #2

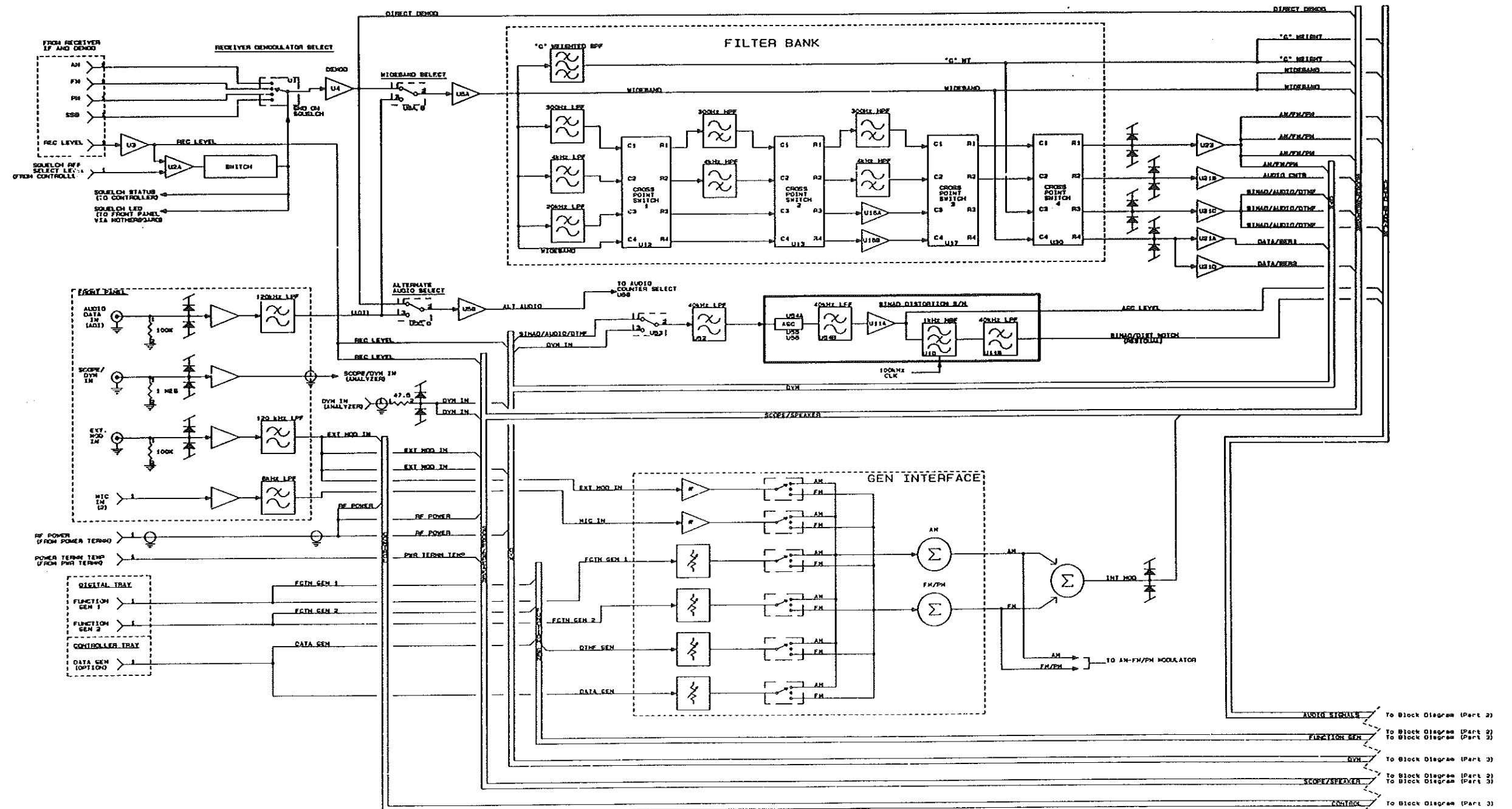




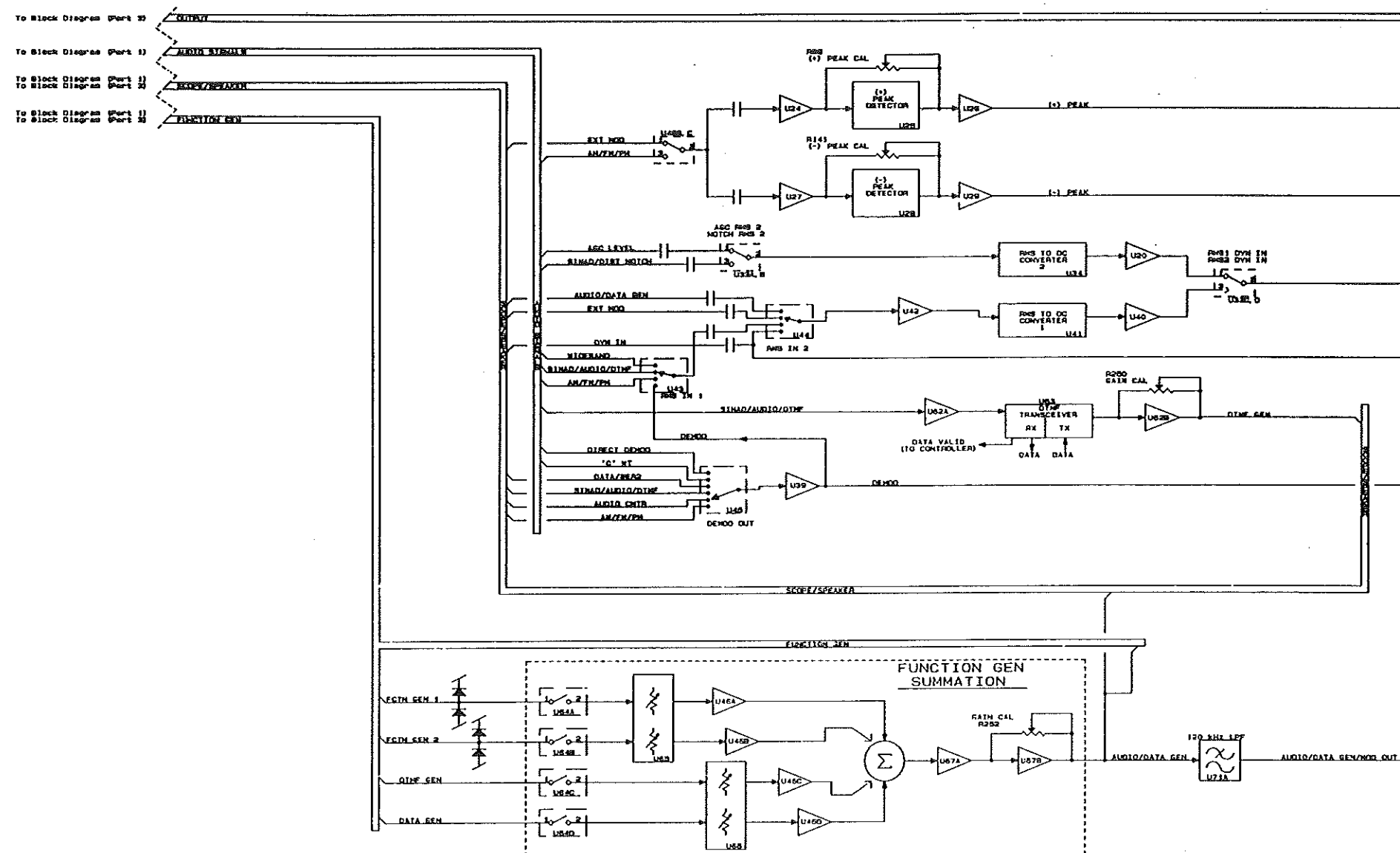
IFR SYSTEMS, INC.
10200 W. York St.
Machita, KS 67218

Title: Schematic, BASEBAND
Rev: 0
Date: November 15, 1993

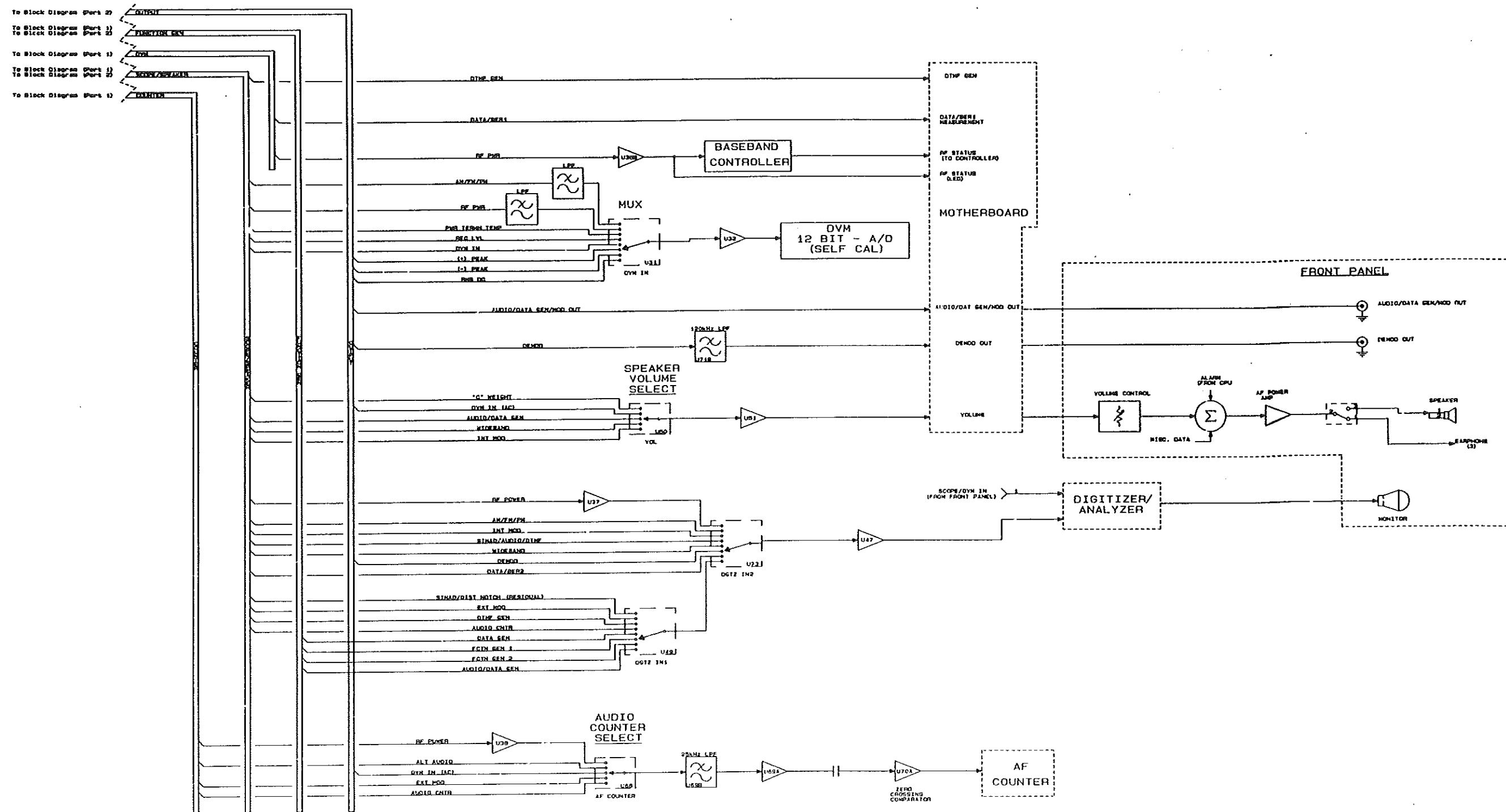
Block Diagram (Part 1)



Block Diagram (Part 2)



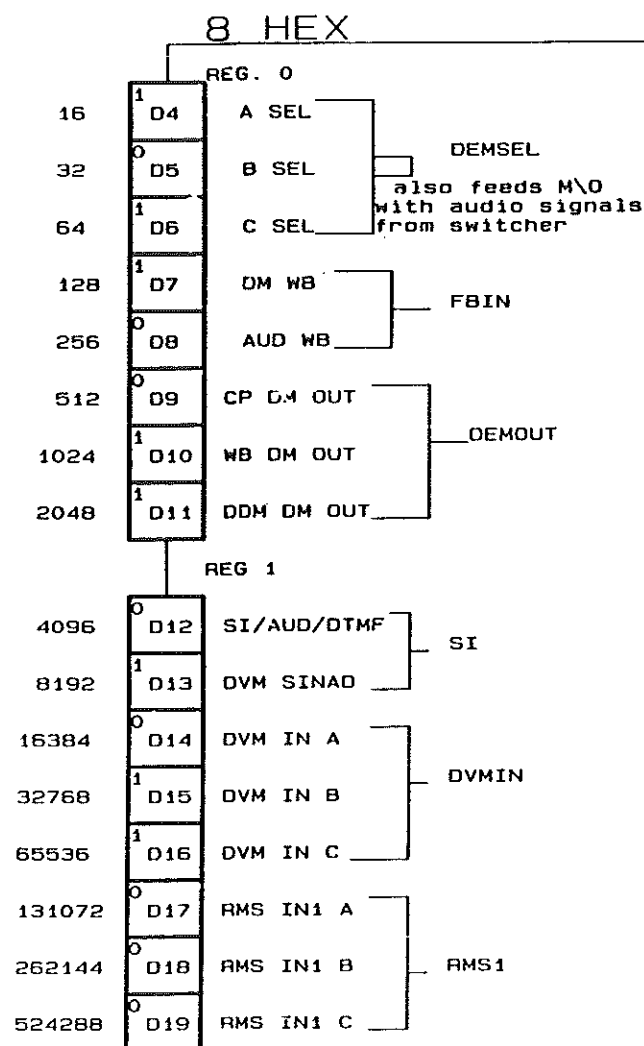
Block Diagram (Part 3)



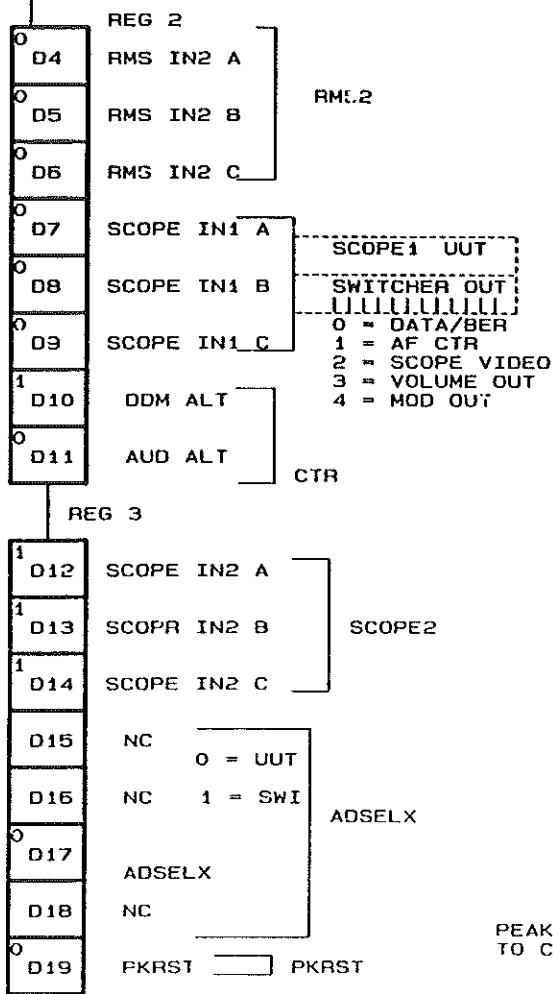
IFM Systems, Inc.
10200 W York St.
Missile, KS 67215
Size Document Number
0000-8731-100
REV
E-3
BLOCK3.SCH Date: NOVEMBER 15, 1993 Sheet 10 of 11



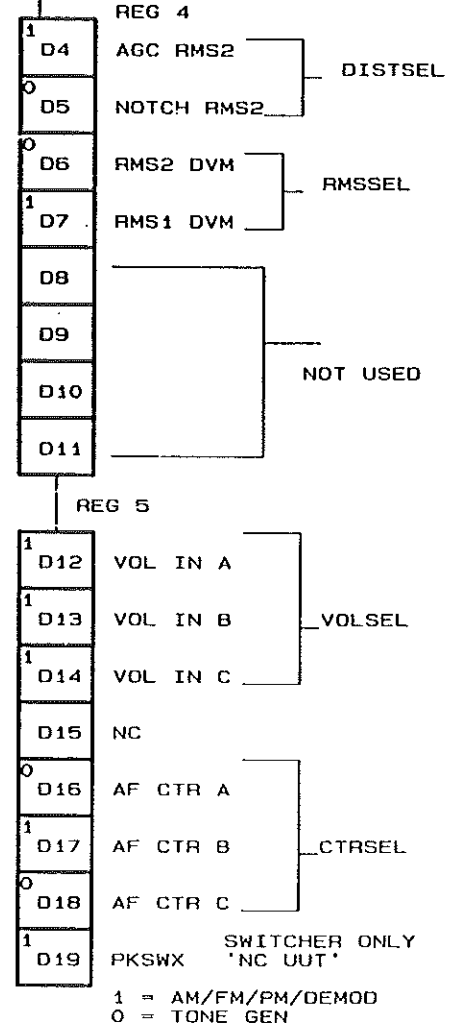
PAL A



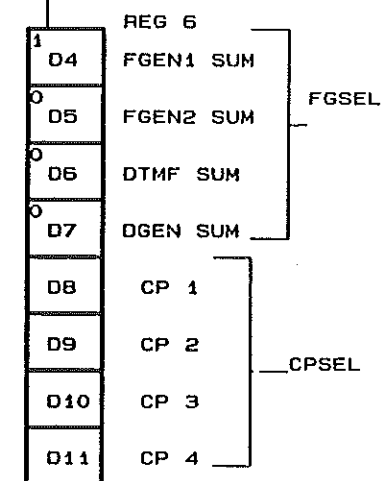
4 HEX



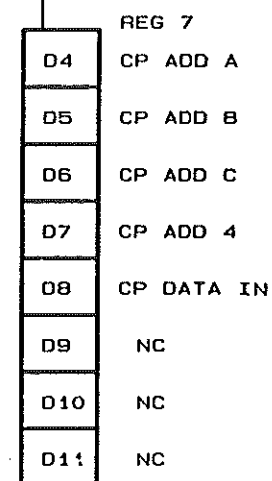
C HEX



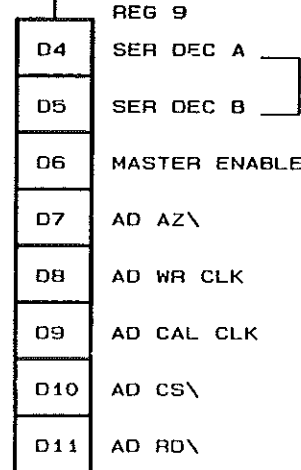
2 HEX



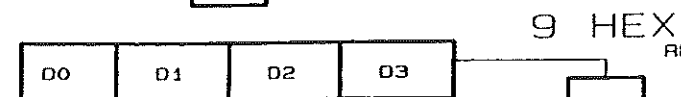
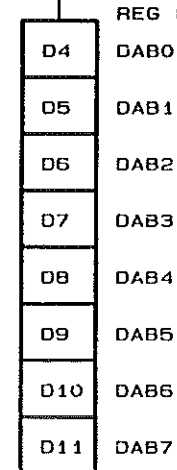
A HEX



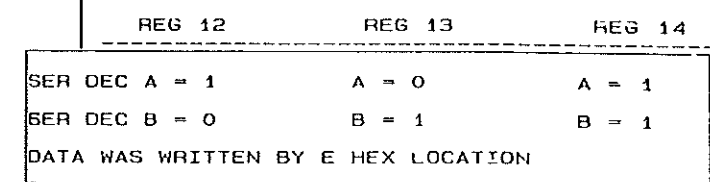
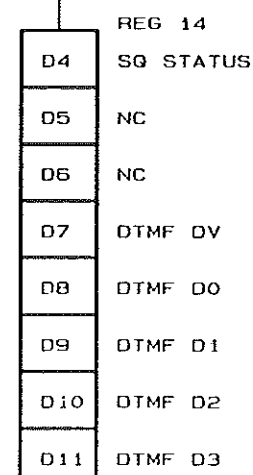
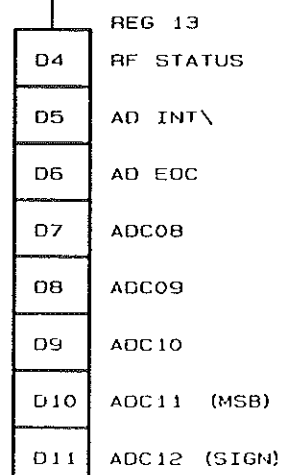
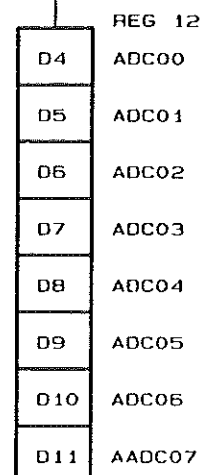
E HEX



6 HEX



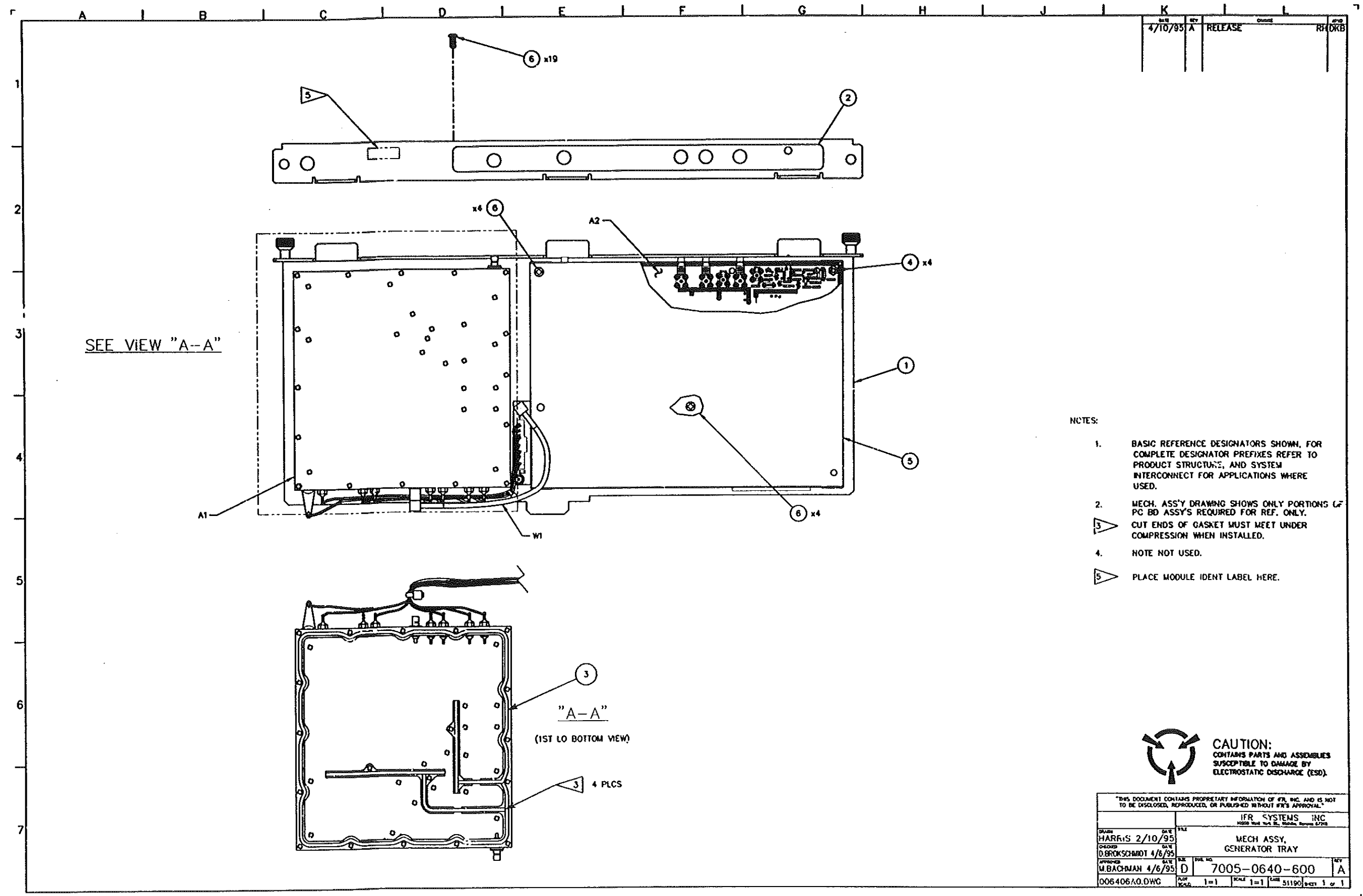
PAL B



IFR SYSTEMS, INC. 10200 W. York St. Wichita, KS 67215		
Title Schematic, BASEBAND		
Size B	Document Number 0000-8731-100	REV E-3
Date: November 15, 1993 Sheet 11 of 11		

1 AND 0 ARE USED FOR DEFAULT TEST ONLY

BITS.SCH

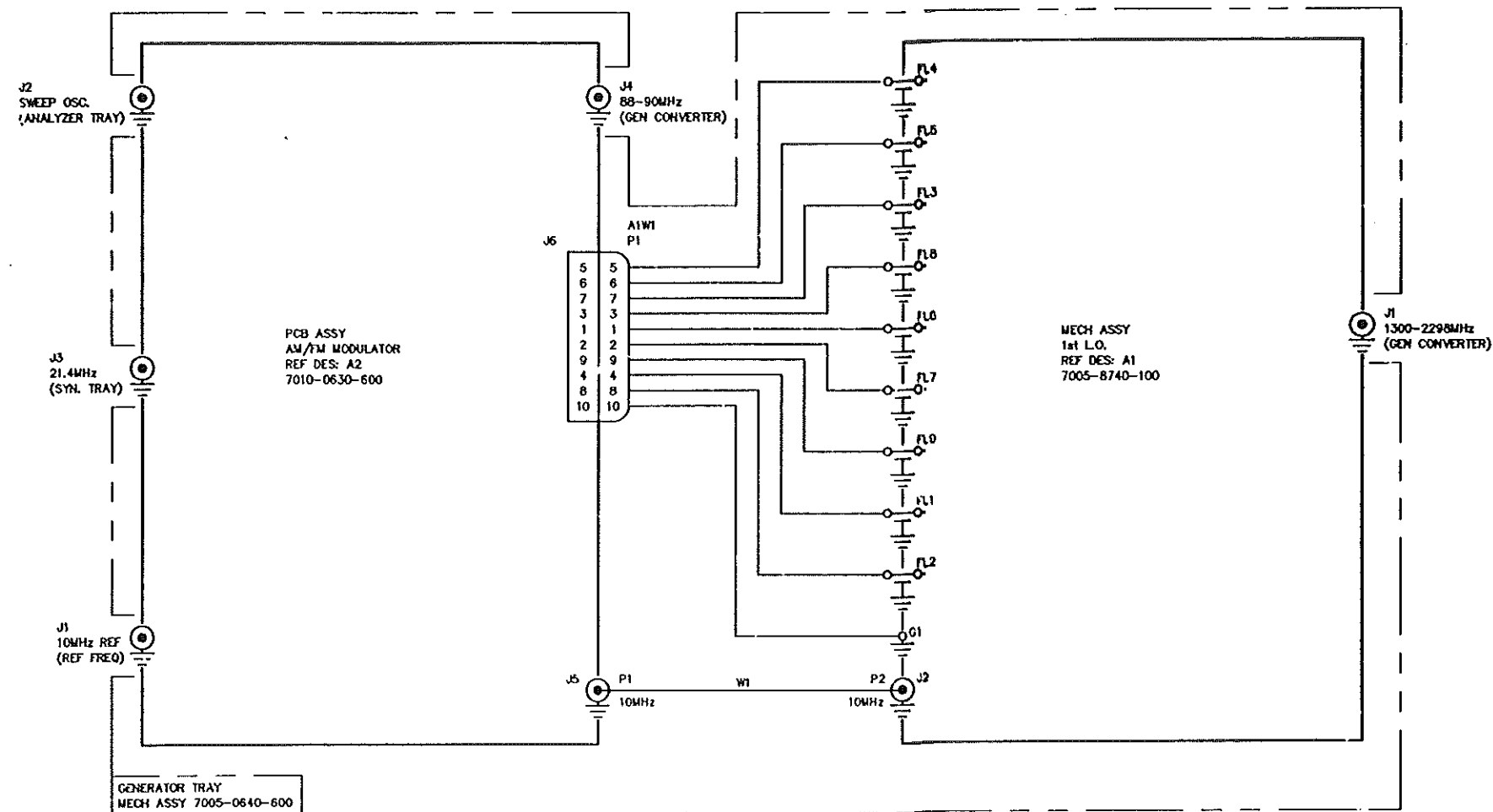


CAUTION:
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD).

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF ITR, INC. AND IS NOT TO BE DISCLOSED, REPRODUCED, OR PUBLISHED WITHOUT ITR'S APPROVAL.

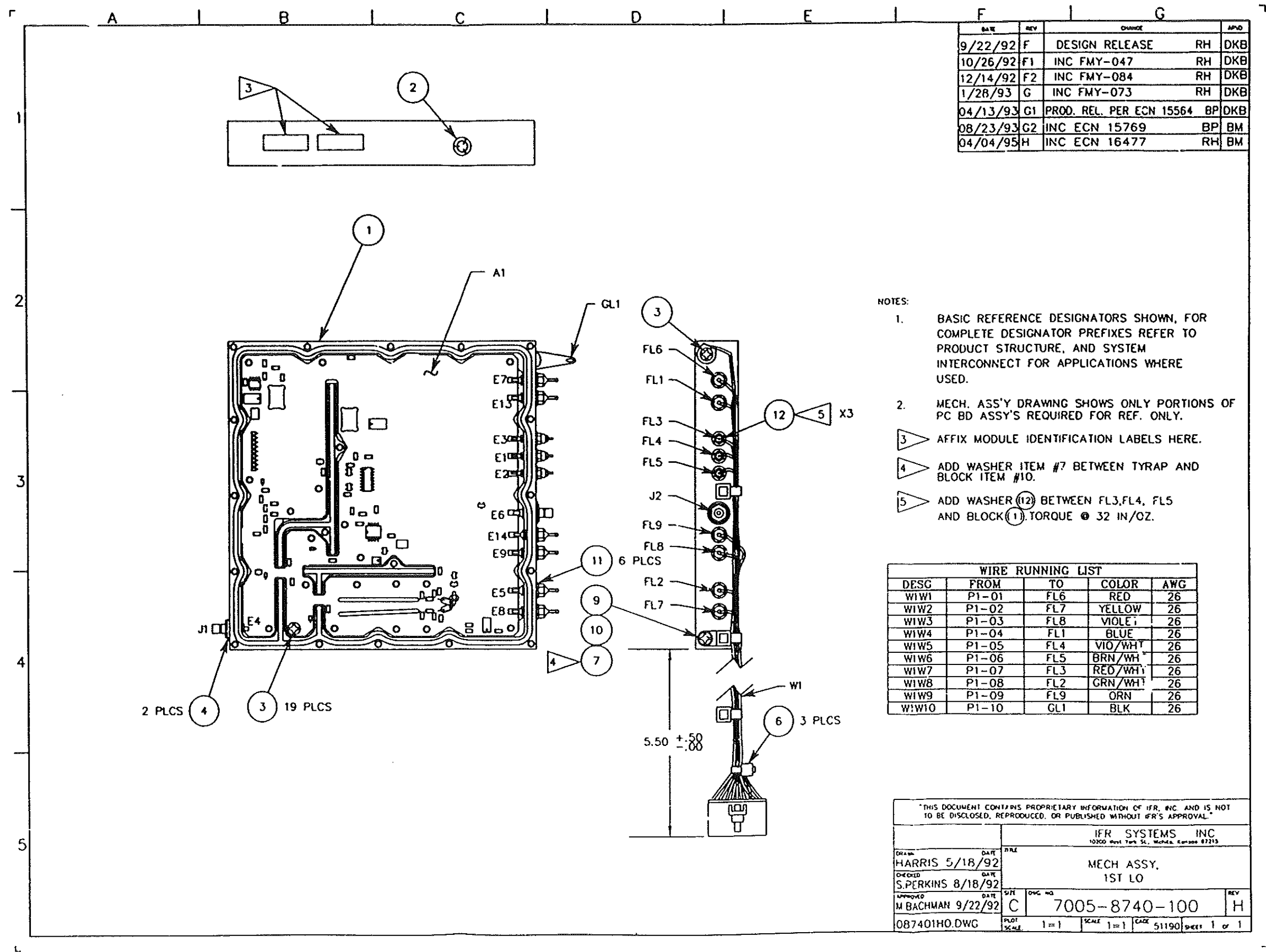
DATE		TIME		IFR SYSTEMS INC	
HARRIS 2/10/95				10229 West York St., Windsor, Ontario E9C 7Y8	
CHECKED DATE		MECH ASSY,			
D. BROKSCHMIDT 4/6/95		GENERATOR TRAY			
APPROVED DATE		S/N		A	
M. BACHMAN 4/6/95		D		7005-0640-600	
006408.0.DWG		PLG		SCALE 1 = 1	
		LUM		51190	
				SHEET 1 of 1	

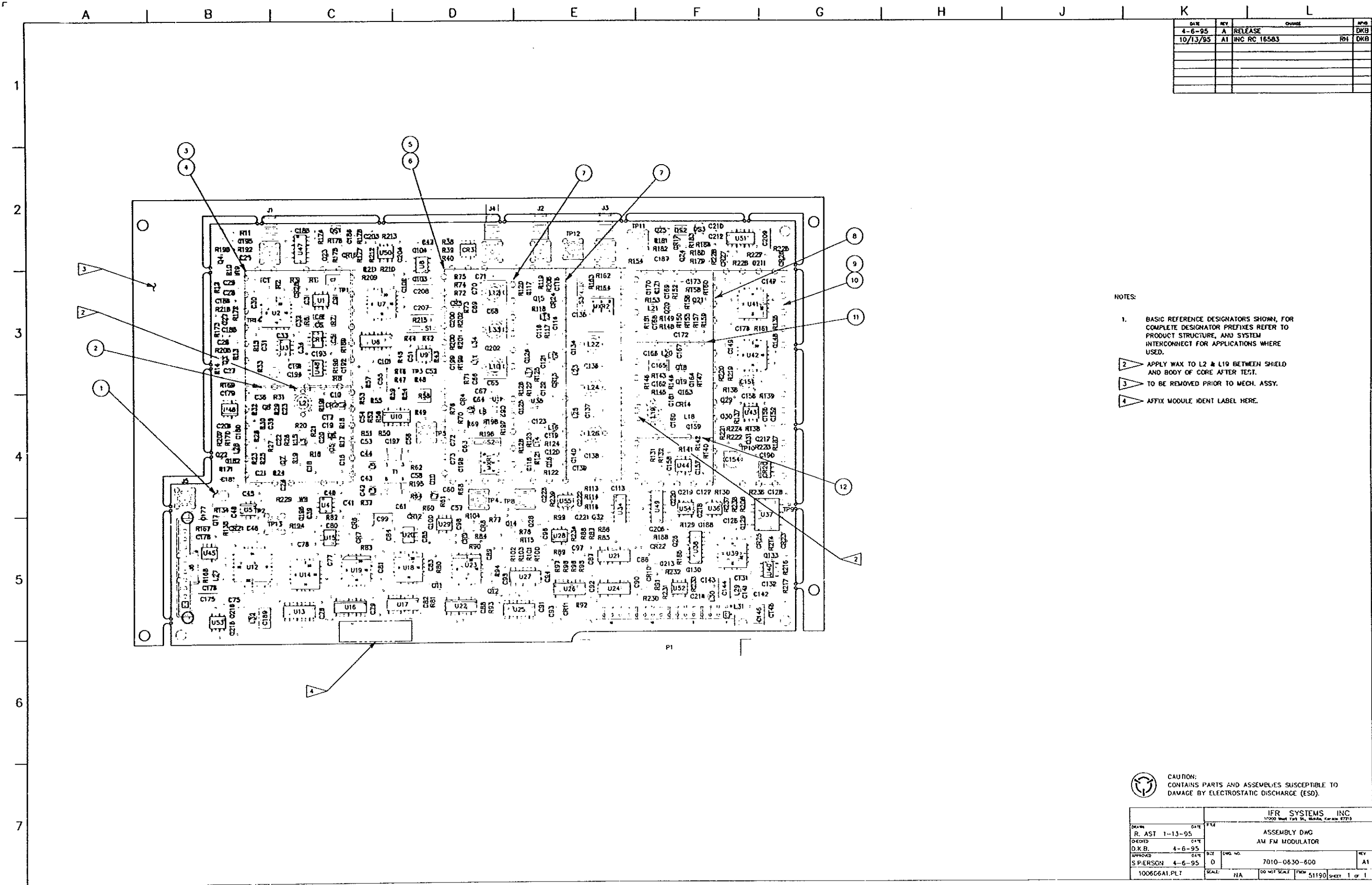
DATE	REV	CHANGE	APPROVED
4/10/95	A	RELEASE	RH DKE



- NOTES:
- BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF IFR, INC. AND IS NOT TO BE DISCLOSED, REPRODUCED, OR PUBLISHED WITHOUT IFR'S APPROVAL.			
IFR SYSTEMS, INC. 1000 West York St., Suite 100, Kansas City, MO 64108			
DATE	BY	CHK	REV
HARRIS 2/10/95			
CHECKED	DATE		
D.BROKSCHMIDT 4/6/95			
APPROVED	DATE	CHK	REV
M.BACHMAN 4/6/95			
006406A0.DWG	PLT	SCALE	PAGE
	1=1	1=1	51190
			REV 1 of 1





DATE	REV	OVERS	APPRO
4-6-95	A	RELEASE	DKB
10/13/95	A1	INC RC 16583	RH DKB

- NOTES:
1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 2. APPLY WAX TO L2 & L19 BETWEEN SHIELD AND BODY OF CORE AFTER TEST.
 3. TO BE REMOVED PRIOR TO MECH. ASSY.
 4. AFFIX MODULE IDENT LABEL HERE.

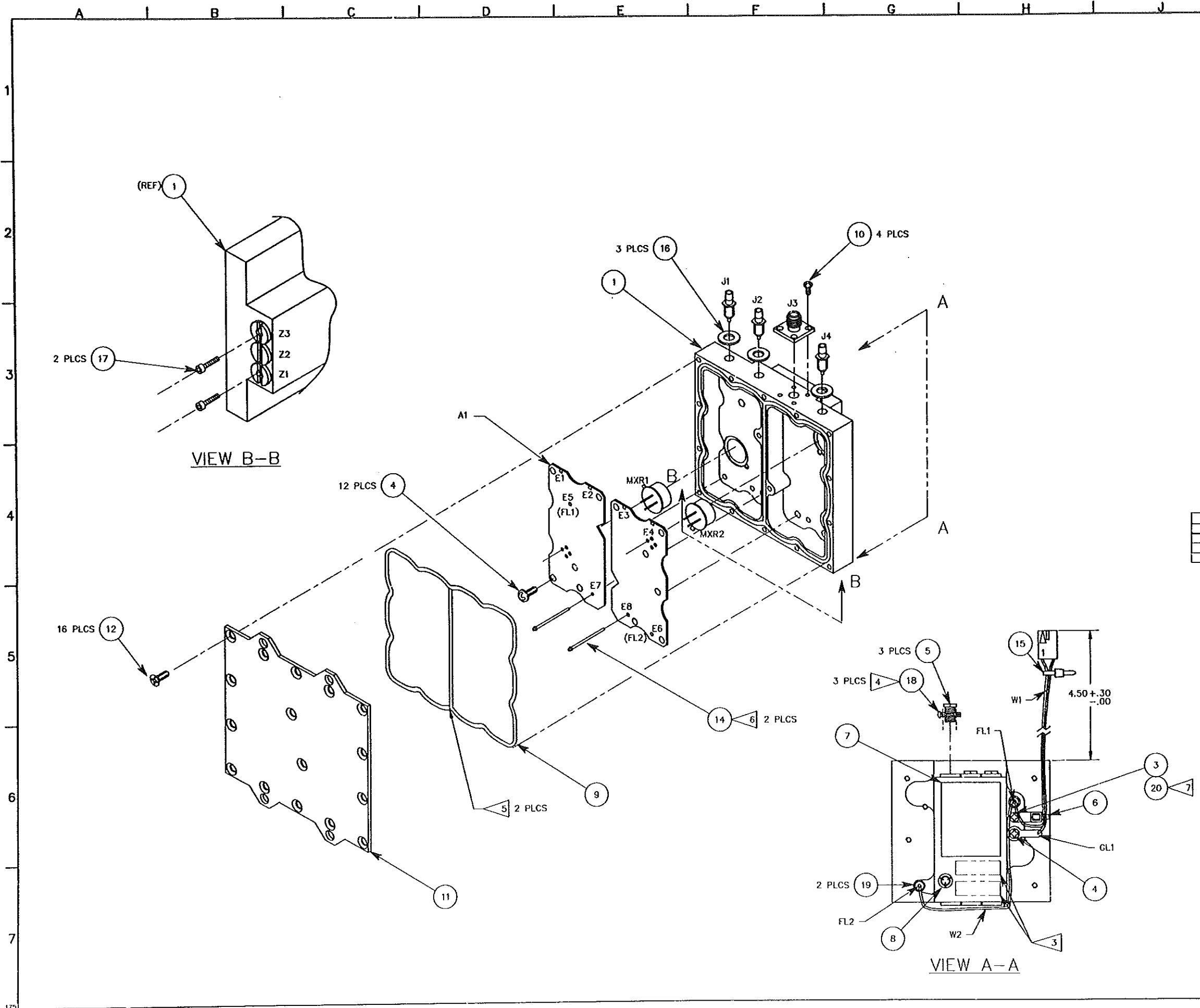
CAUTION:
CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO
DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).

IFR SYSTEMS, INC.			
1000 West 1st St., Brea, CA 92603-0719			
DATE	FILE	ASSEMBLY DWG	
R. AST 1-13-95		AM FM MODULATOR	
DESIGNED	DATE	SIZE	DWG. NO.
D.K.B. 4-6-95		0	7010-0630-600
APPROVED	DATE	REV	
S. PIERSON 4-6-95		A1	
100606A1.PLT	SCALE: N/A	DO NOT SCALE FROM 51190	SHEET 1 OF 1

DATE	REV	CHANGE	BY	APP'D
8/19/92	D	DESIGN RELEASE	RH	DKE
10/30/92	D1	INC FMY-052	RH	DKE
1/4/93	D2	INC FMY-095	RH	DKE
04/06/93	D3	PROD REL ECN 15584 BP	DKE	
08/23/93	D4	PRODUCT EQUAL TO D5		
11/17/93	D5	INC ECN 15769 & 15769A BP	BM	

- NOTES:
1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 2. MECH. ASS'Y DRAWING SHOWS ONLY PORTIONS OF PC BD ASSY'S REQUIRED FOR REF. ONLY.
 3. AFFIX MODULE IDENTIFICATION LABELS HERE.
 4. THREAD NYLON SCREW INTO SLUG UNTIL THREADS ARE EXTENDING PAST SLUG ABOUT EQUAL DISTANCE. CUT OFF BOTH ENDS OF SCREW FLUSH TO SLUG THREADS.
 5. CUT ENDS OF GASKET MUST MEET UNDER COMPRESSION WHEN INSTALLED.
 6. PINS ARE TO BE FULLY INSERTED INTO TUNING POLE. CUT OFF EXCESS PIN AFTER SOLDERING.
 7. ADD WASHER ITEM #20 BETWEEN ITEM #3 AND ITEM #6.

WIRE RUNNING LIST				
DESIG	FROM	TO	COLOR	AWG
WIW1	P1-01	FL1	RED	22
WIW2	P1-02	GL1	BLACK	22
W2	FL2	FL1	RED	22



CAUTION:
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD).

IFR SYSTEMS, INC.				
DATE	4/16/92	FILE	MECH ASSY GEN CONVERTER	
DESIGNED	S. PERKINS	DATE	8/17/92	
APPROVED	M. BACHMAN	DATE	8/20/92	
087403D5.DWG	PLT	SCALE	1=1	SCALE 1=1
		CASE	51190	SCALE 1=1

A B C D E F G

DATE	REV	CHANGE	APPROVED
8-14-92	D1	DESIGN RELEASE	RLA DKB
4-28-93	D2	PROD REL PER ECH 15584	MKM DKB

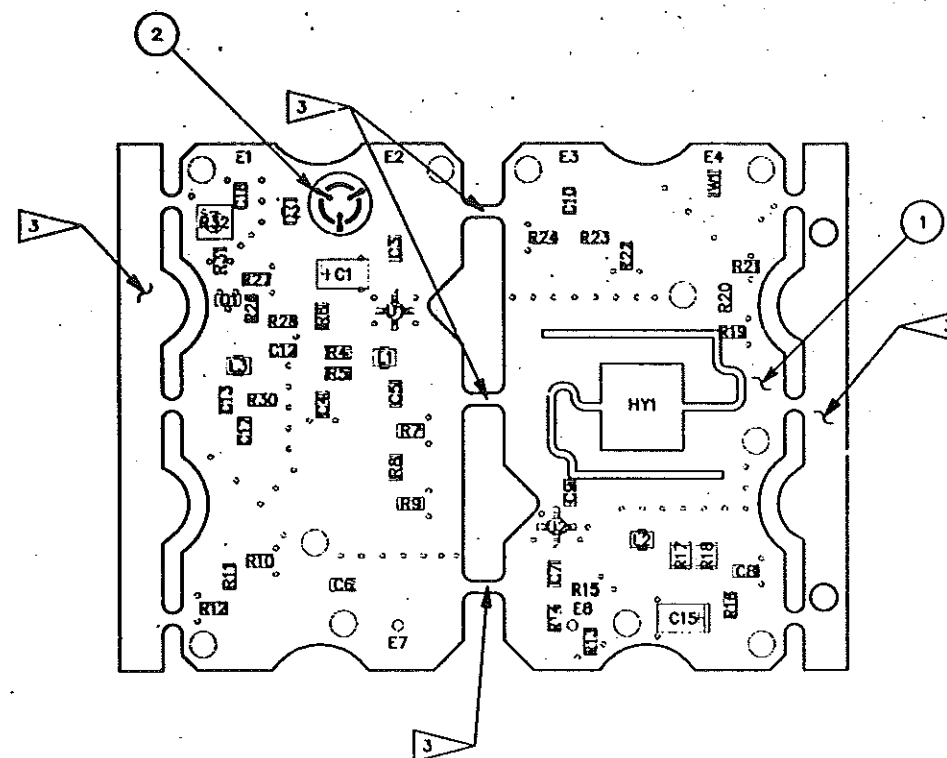
1

2

3

4

5



NOTES:

1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT, STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
2. REF SCHEMATIC # 0000-8740-300.
3. TO BE REMOVED PRIOR TO MECH. ASSY.
4. NON-TERMINATED E POINTS SHOWN FOR REFERENCE ONLY.



CAUTION:
CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO
DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).

DRAWN		DATE		TITLE	
C.J. WEBB		3/9/91		IFR SYSTEMS INC	
CHECKED		DATE		10200 West York St., Shawnee, Kansas 67218	
RICK DO'L		4/10/91		ASSEMBLY DWG	
APPROVED		DATE		GEN CONVERTER	
D.LANGRIDGE		4/10/91		SIZE	REV
				C	D2
				DWG. NO.	
				7010-8730-300	
				SCALE	1:1
				DO NOT SCALE	FROM 51190
				SHEET 1 OF 1	

DATE	REV	CHANGE	APPROVED
8-14-92	0	DESIGN RELEASE	OKB
04-05-93	01	PROD REL per ECN15564	DKB

NOTES:
(UNLESS OTHERWISE SPECIFIED)

- 1. BASIC REFERENCE DESIGNATORS SHOWN. FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
- 2. ALL RESISTORS ARE 1%, 1/8W.
- 3. ALL RESISTANCE IS EXPRESSED IN OHMS. ALL CAPACITANCE IS EXPRESSED IN MICROFARADS. ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.
- 4. HIGHEST REFERENCE DESIGNATIONS:
7010-8730-300
C17 L3 01 R32 U2
7005-8740-300
FL2 GL1 J4 MXR2 P1 23
- 5. REFERENCE DESIGNATIONS NOT USED:
7010-8730-300
C11, C14, R1-3, R25, R29
7005-8740-300
NONE
- 6. FOR INTERCONNECT/BLOCK DIAGRAM SEE APPLICATIONS WHERE USED.
- 7. IC FUNCTIONS NOT USED:
NONE
- *- INDICATES PRINTED TRANSMISSION LINES OF OTHER THAN 50 OHMS IMPEDANCE WHICH CONSTITUTE CIRCUIT ELEMENTS. 50 OHM TRANSMISSION LINES ARE NOT SHOWN.



CAUTION:

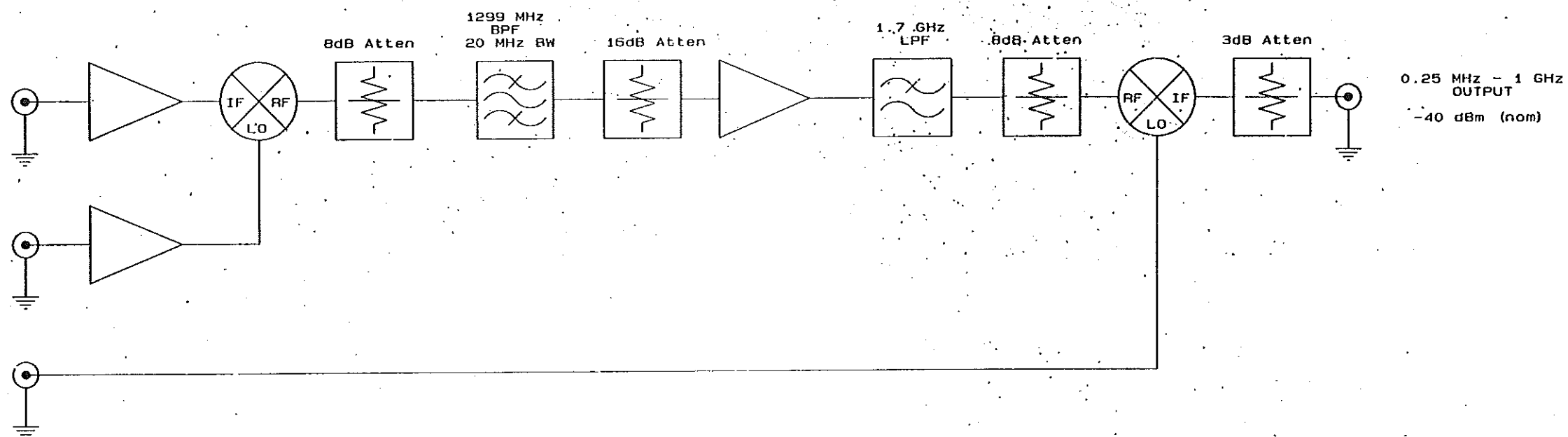
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD).

DRAWN R. LANGRIDGE 5-27-92		IFR SYSTEMS, INC. 10200 W YORK STREET WICHITA, KS 67215-8935	
CHECKED DEB BROKSCHMIDT 8-14-92		Title CIRCUIT SCHEMATIC, GEN CONVERTER	
APPROVED STAN PIERSON 8-14-92		Size B	REV 0-1
		Date: April 29, 1993	Sheet 1 of 3

88-90 MHz
INPUT
(-13 dBm)

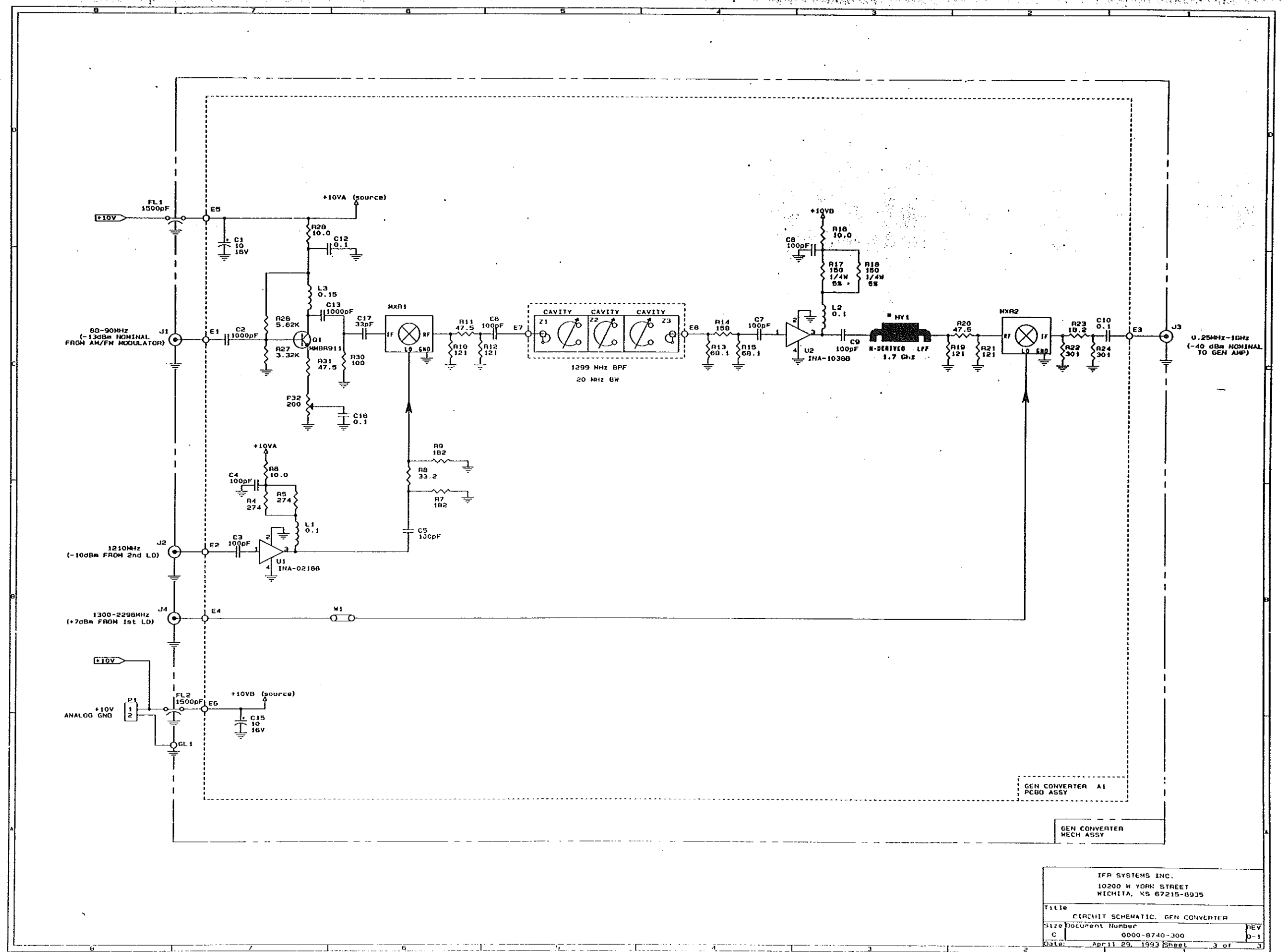
2nd LO IN
(1210 MHz)
(-10 dBm)

1st LO IN
(1.3-2.298 GHz)
(+7 dBm)



IFR SYSTEMS
10200 W YORK STREET
WICHITA, KS 67215-8935

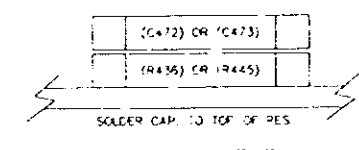
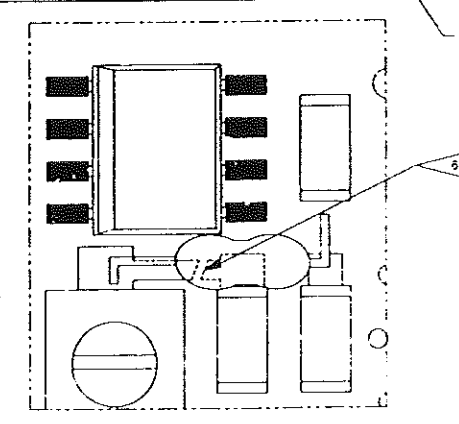
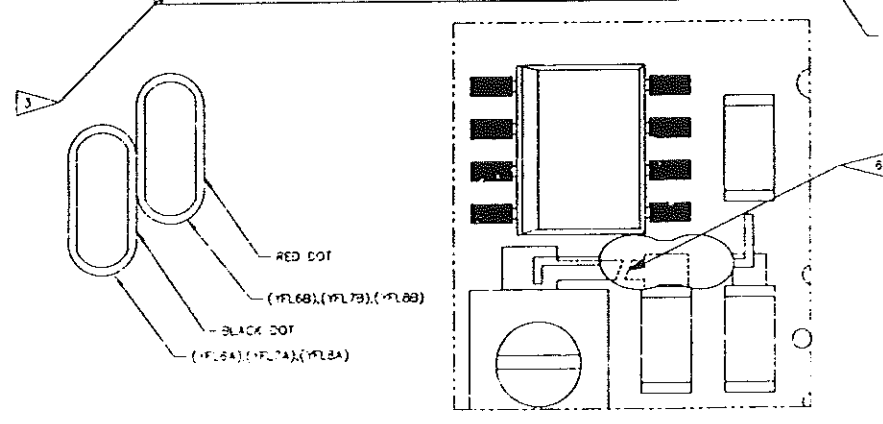
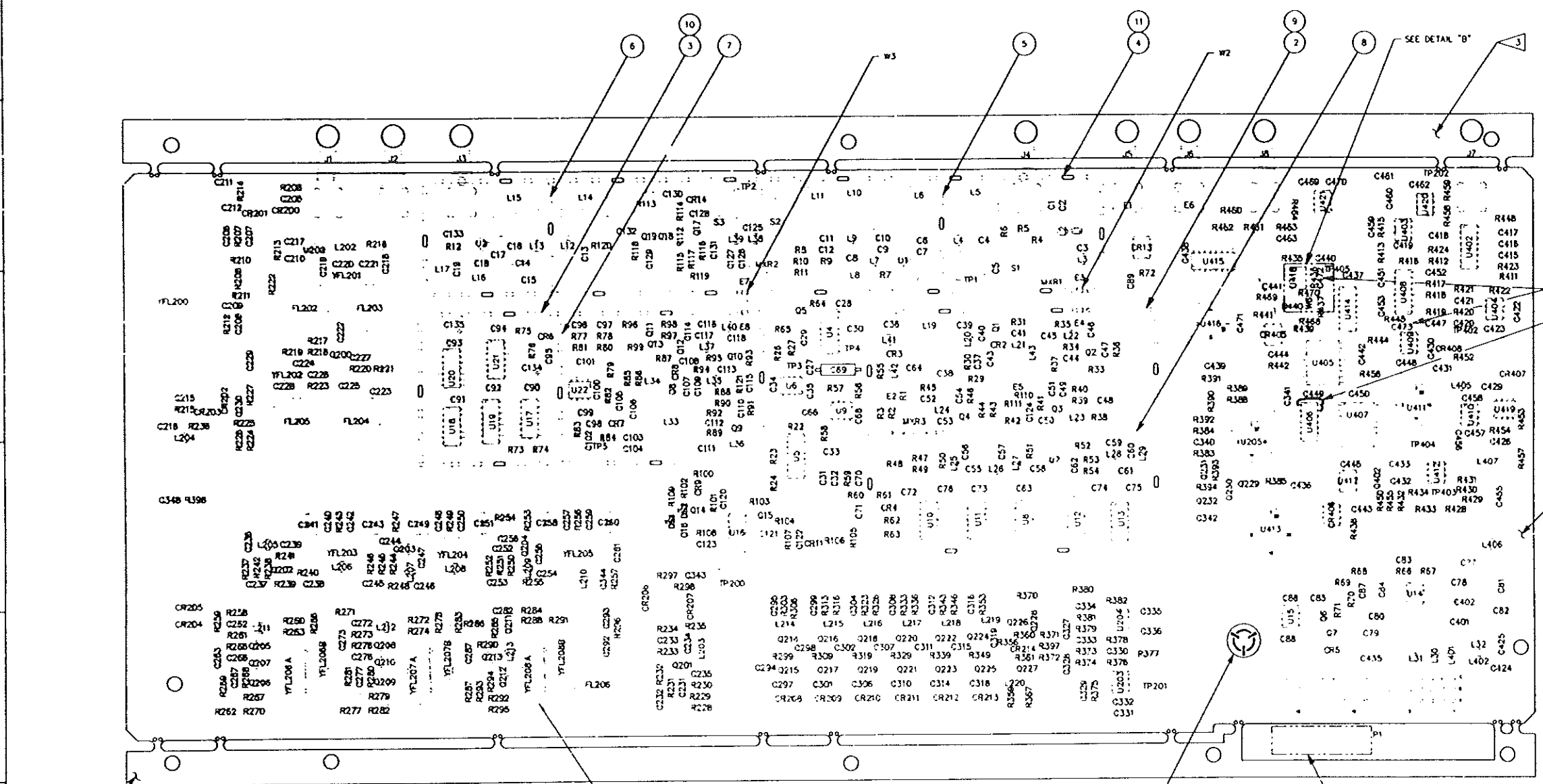
Title		
CIRCUIT SCHEMATIC, GEN CONVERTER		
Size	Document Number	REV
B	0000-8740-300	0-1
Date:	April 29, 1993	Sheet 2 of 3



IFP SYSTEMS INC.
10200 W YORK STREET
WICHITA, KS 67215-8935

Title		CIRCUIT SCHEMATIC, GEN CONVERTER
Size		Document Number
C	0000-8740-300	REV D-1
Date:	April 29, 1993	Sheet 3 of 3

DATE	REV	CHANGE	APP
8-20-92	D	DESIGN RELEASE	DWB
10-6-92	D1	INC FLY-017	DWB
10-19-92	D2	INC FLY-032	DWB
11-18-92	D3	INC FLY-062	DWB
11-18-92	D4	INC FLY-083	DWB
12-1-92	D5	INC FLY-077	DWB
1-13-93	D6	INC FLY-100	DWB
11-23-92	E	INC FLY-068	CJM
5-03-93	E1	PROD REL PER ECH 15564	MMW
8-11-93	E2	INC ECH 15691	RRW
12-8-94	E3	INC RC 18318	MMW
7/14/95	F	INC ECH 18553	BP
8/12/95	G	INC ECH 18599	BP
12/4/95	H	INC ECH 18607	BP
1-10-96	J	INC ECH 18658	RLA
2-28-96	K	INC ECH 18666	MMW

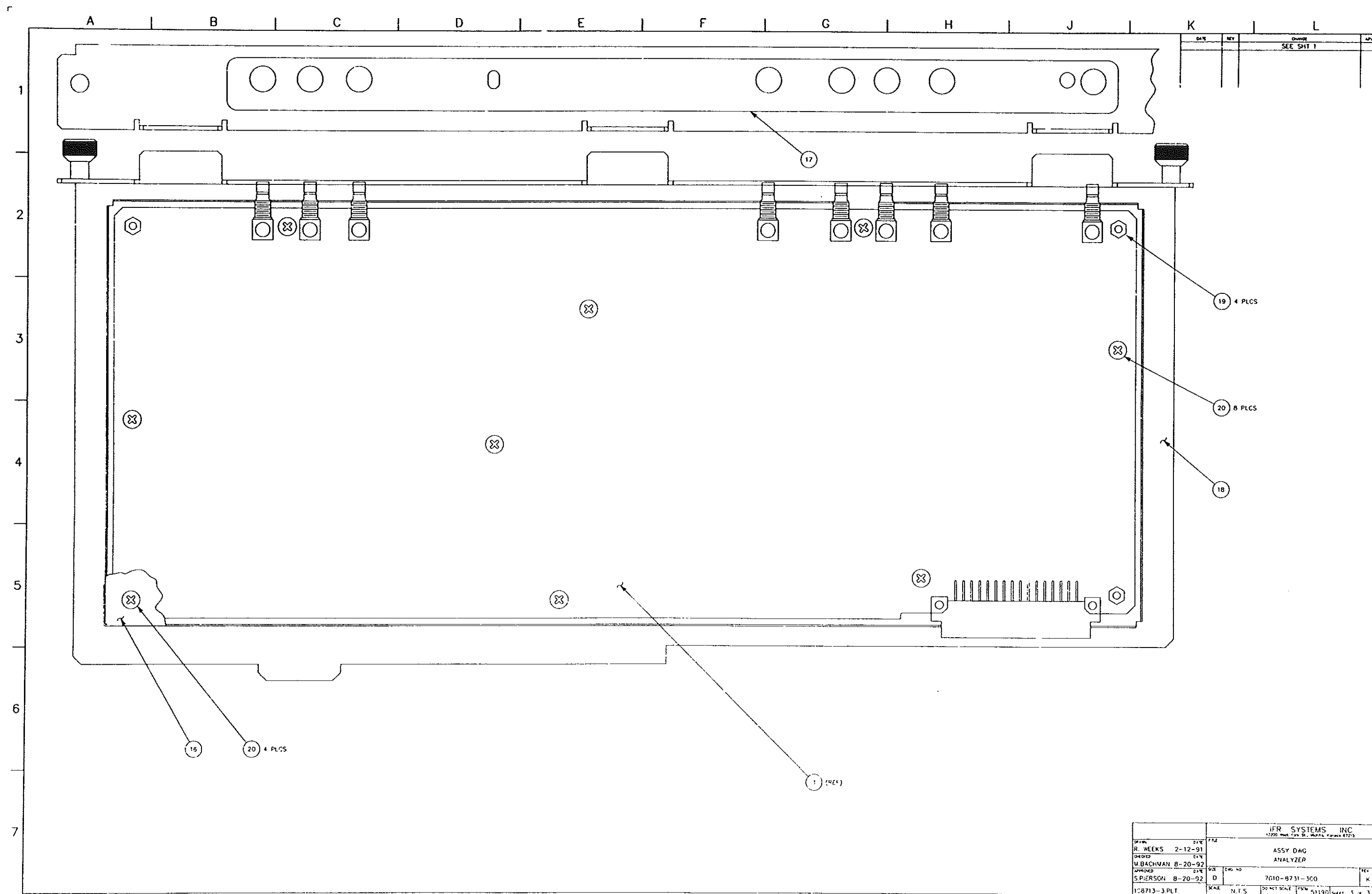


TOP VIEW

- NOTES
1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 2. NOTE NOT USED.
 3. TO BE REMOVED PRIOR TO MECH ASSY.
 4. AFFIX MODULE IDENT LABEL HERE.
 5. VFL206, VFL207 AND VFL208 (2302-0107-15) ARE MATCHED SETS OF TWO'S, THE ORDER AND ORIENTATION ARE IMPORTANT DO NOT BREAK UP SETS.
 6. CUT PATH

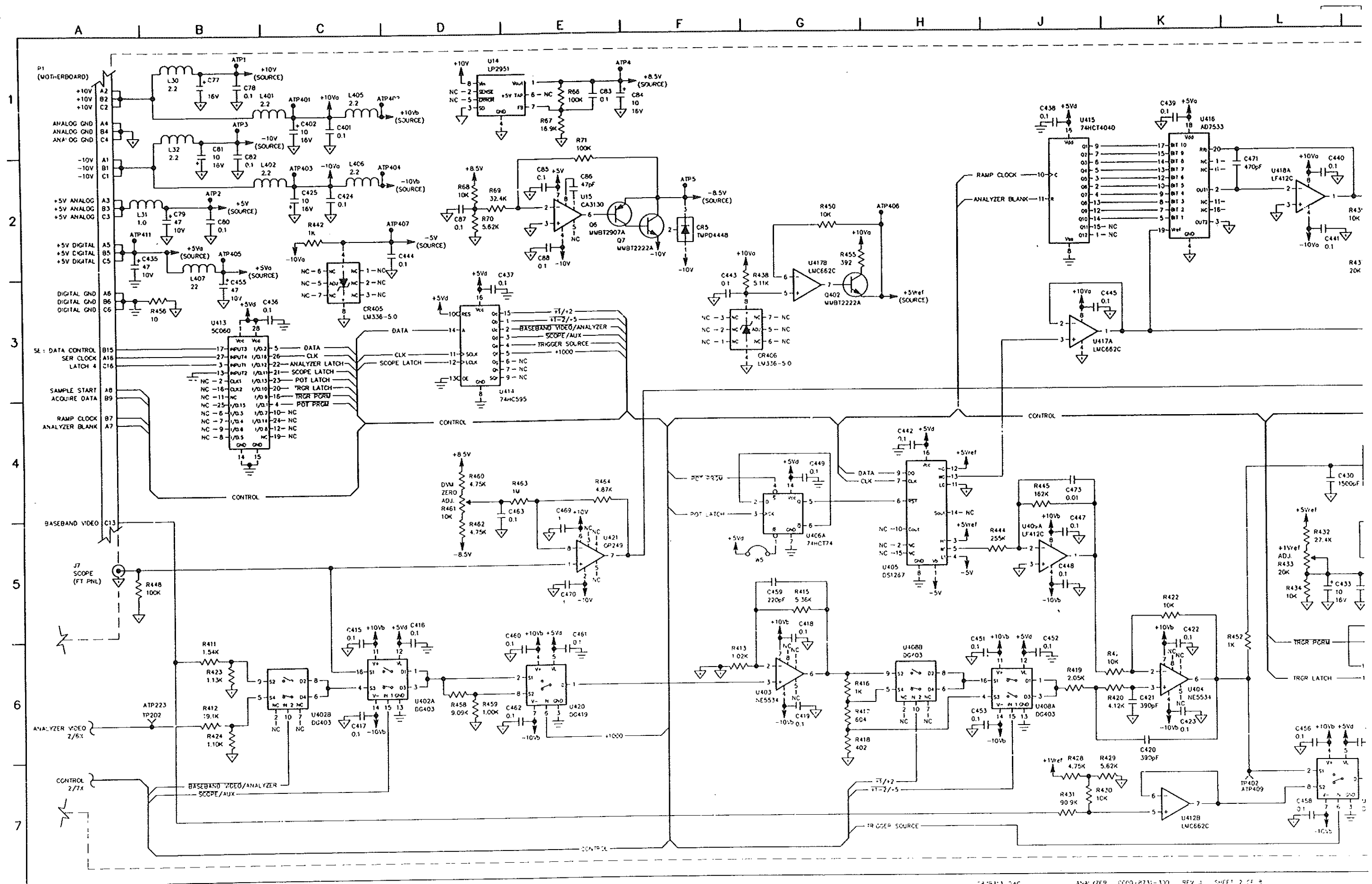
CAUTION:
CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO
DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).

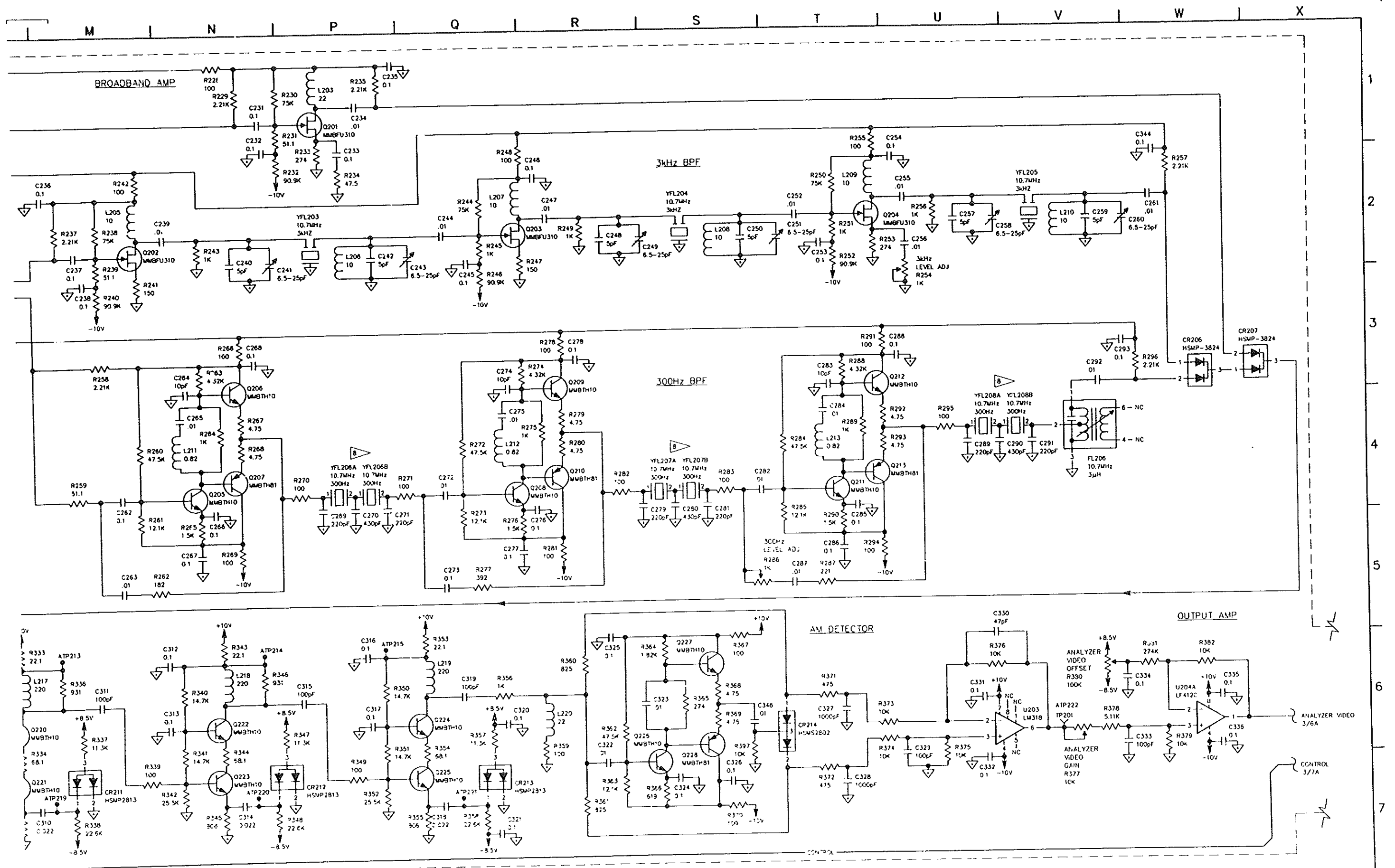
IFR SYSTEMS INC			
12000 Hwy 101, San Diego, CA 92126			
DATE	REV	FILE	APP
2 WEEKS	2-12-91		
DESIGNED	DATE		
U BACHMAN	8-20-92		
APPROVED	DATE		
S PIERSON	8-20-92		
108713KO-PLT	SCALE	N.T.S.	DO NOT SCALE FROM 51190
			SHEET 1 of 3

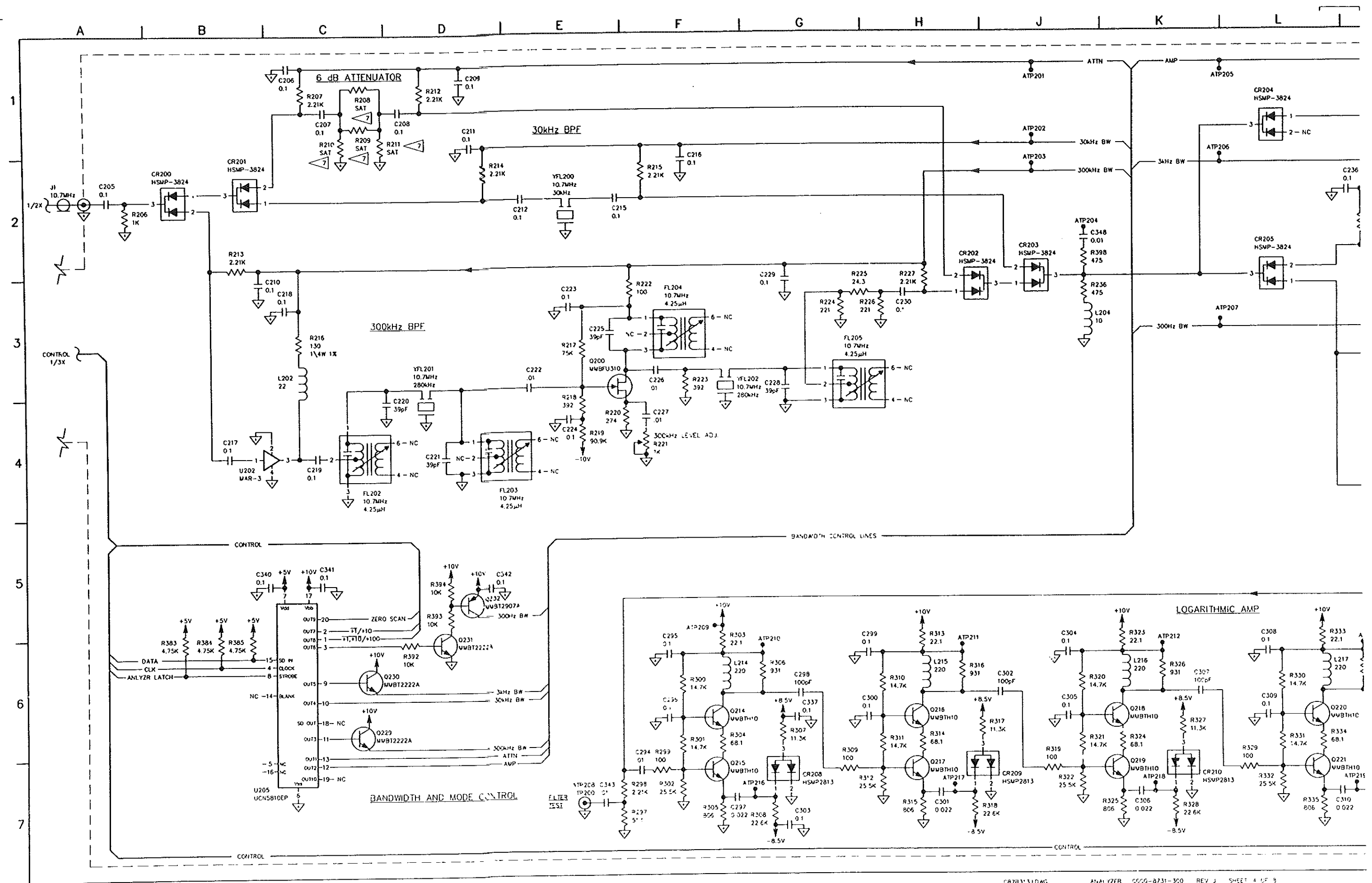


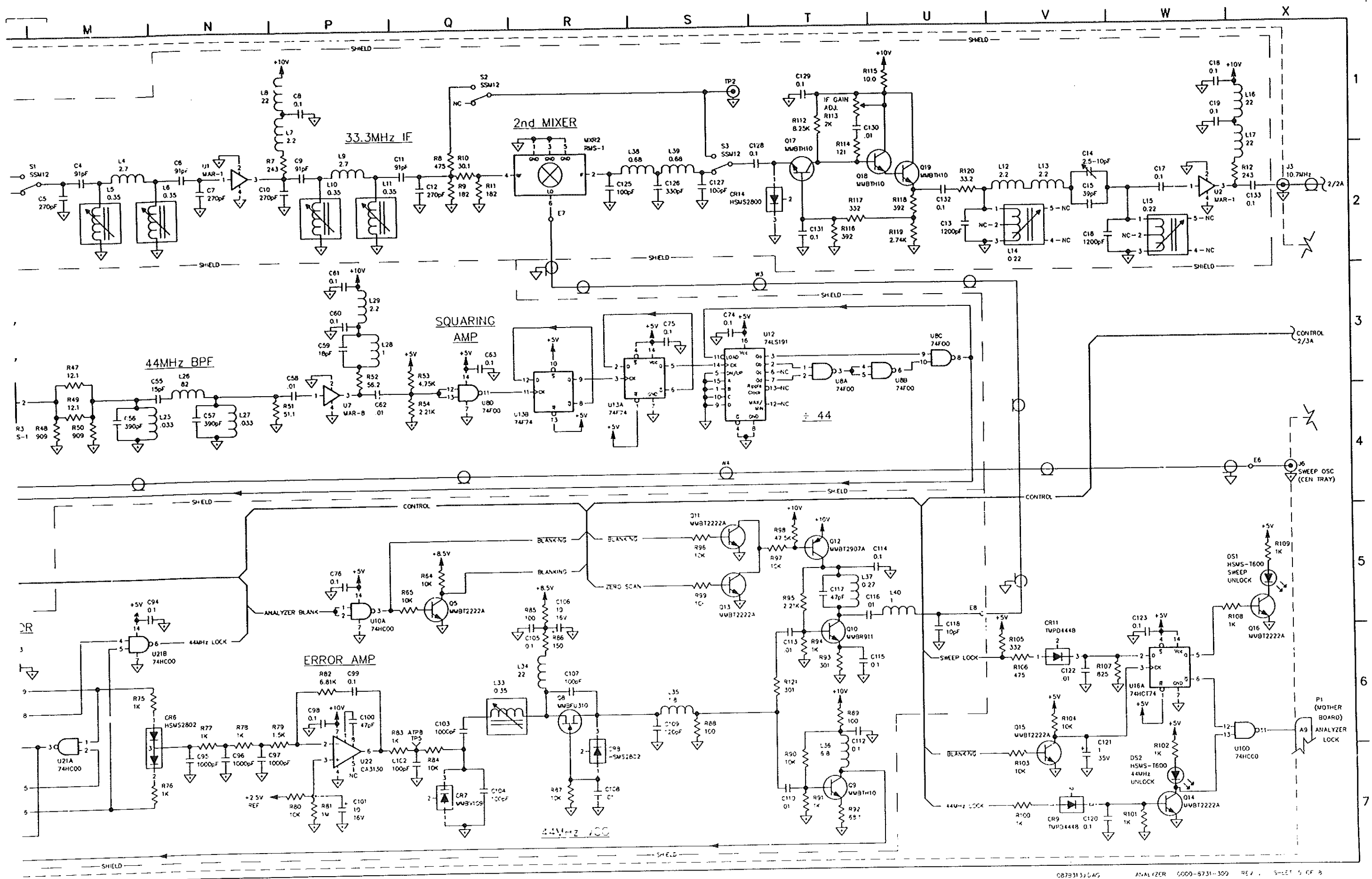
IFR SYSTEMS, INC.			
12000 WALKER, CRYO. ST., MARIETTA, GEORGIA 30067			
ASSY DAG ANALYZER			
DATE	REV	QTY	REV
2-12-91	1	1	1
2-20-92	2	1	2
8-20-92	3	1	3
8-20-92	4	1	4
12-8713-3-PLT	SCALE	N.T.S.	DO NOT SCALE
51130	Scale	5	3

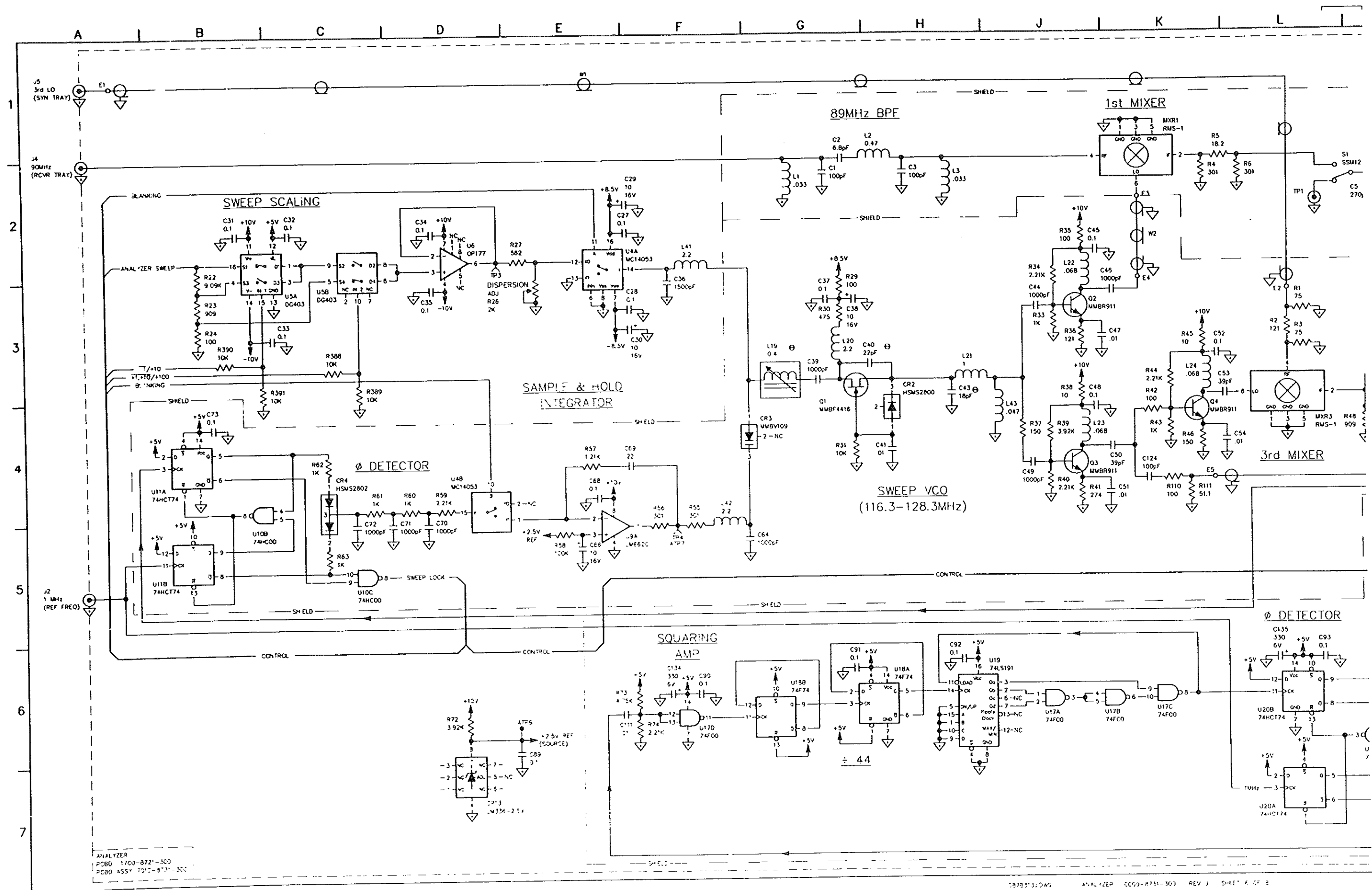
DATE	REV	CHANGE	APPROVED
8/10/95	G	INC ECH 16599	BM
12/4/95	H	INC ECH 16807	BM
2/29/96	J	INC ECH 16866	BM

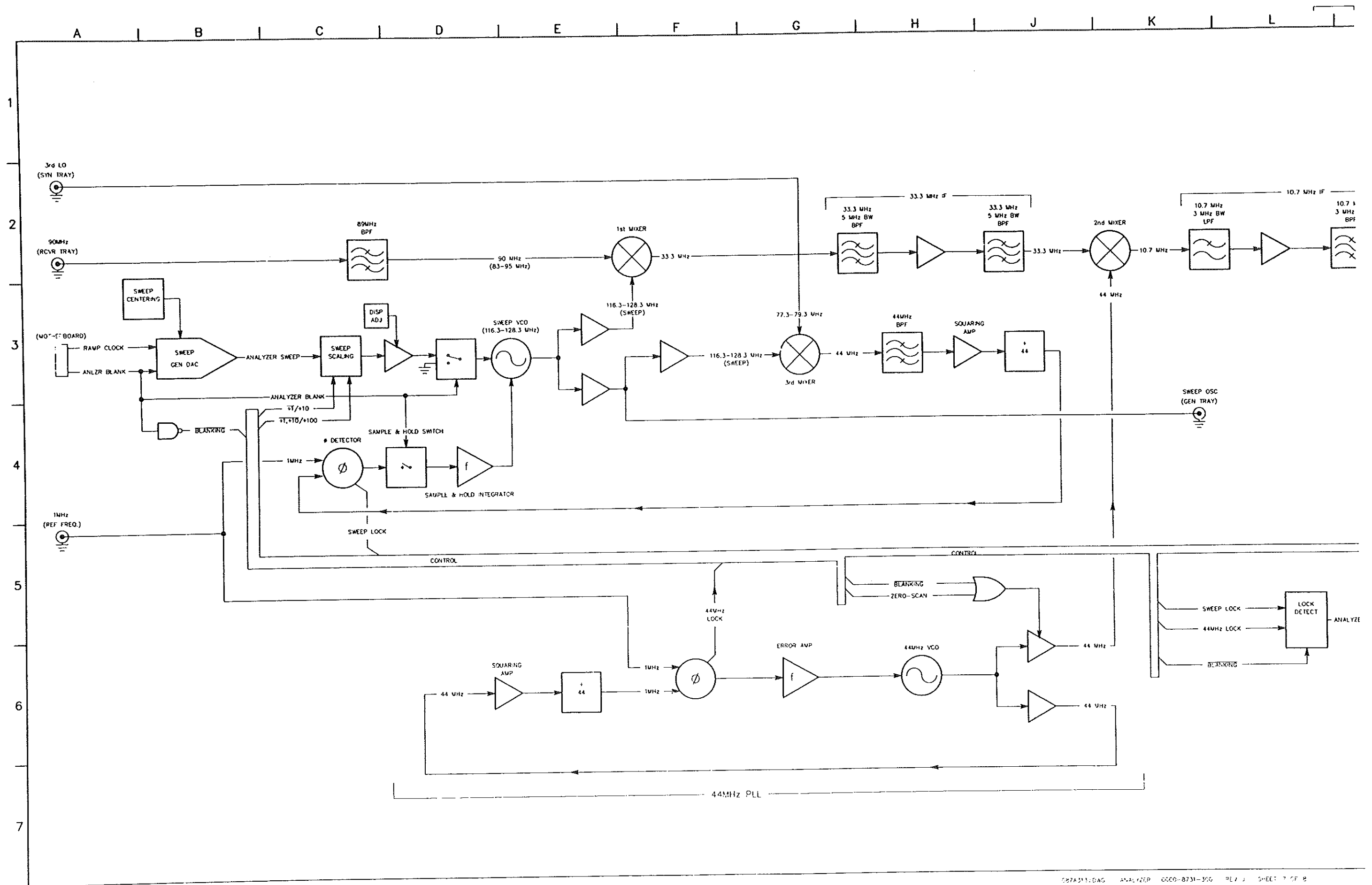


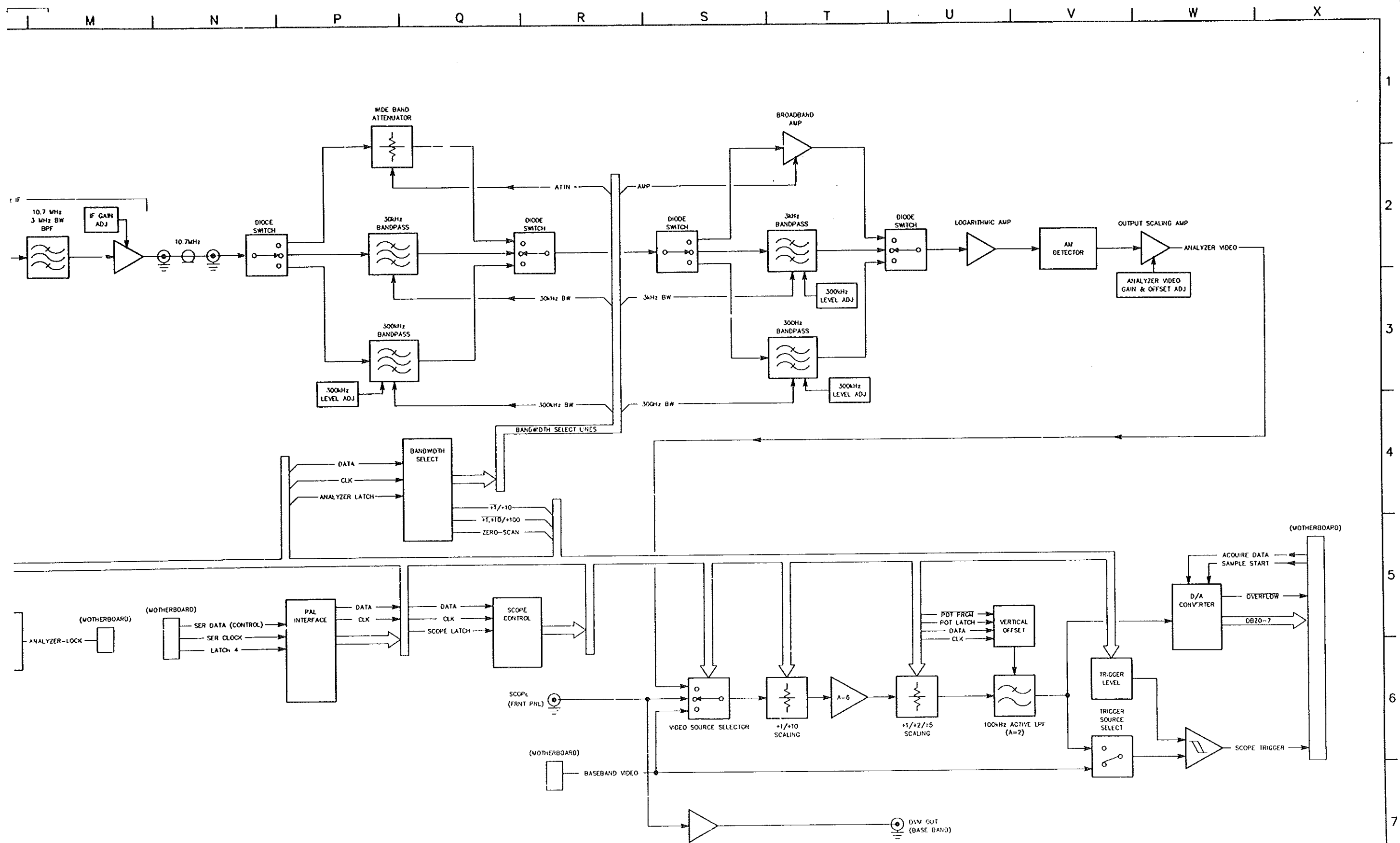


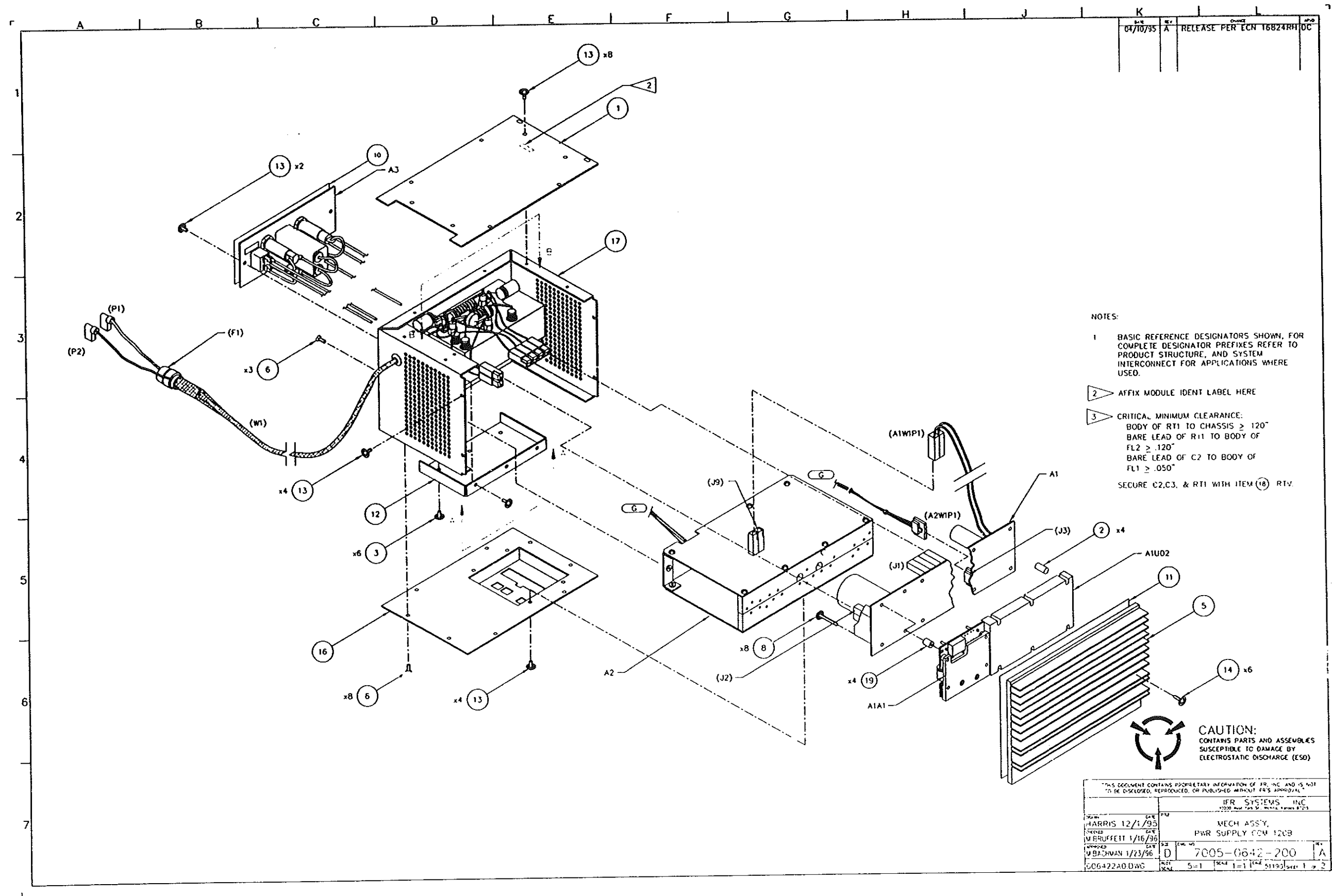


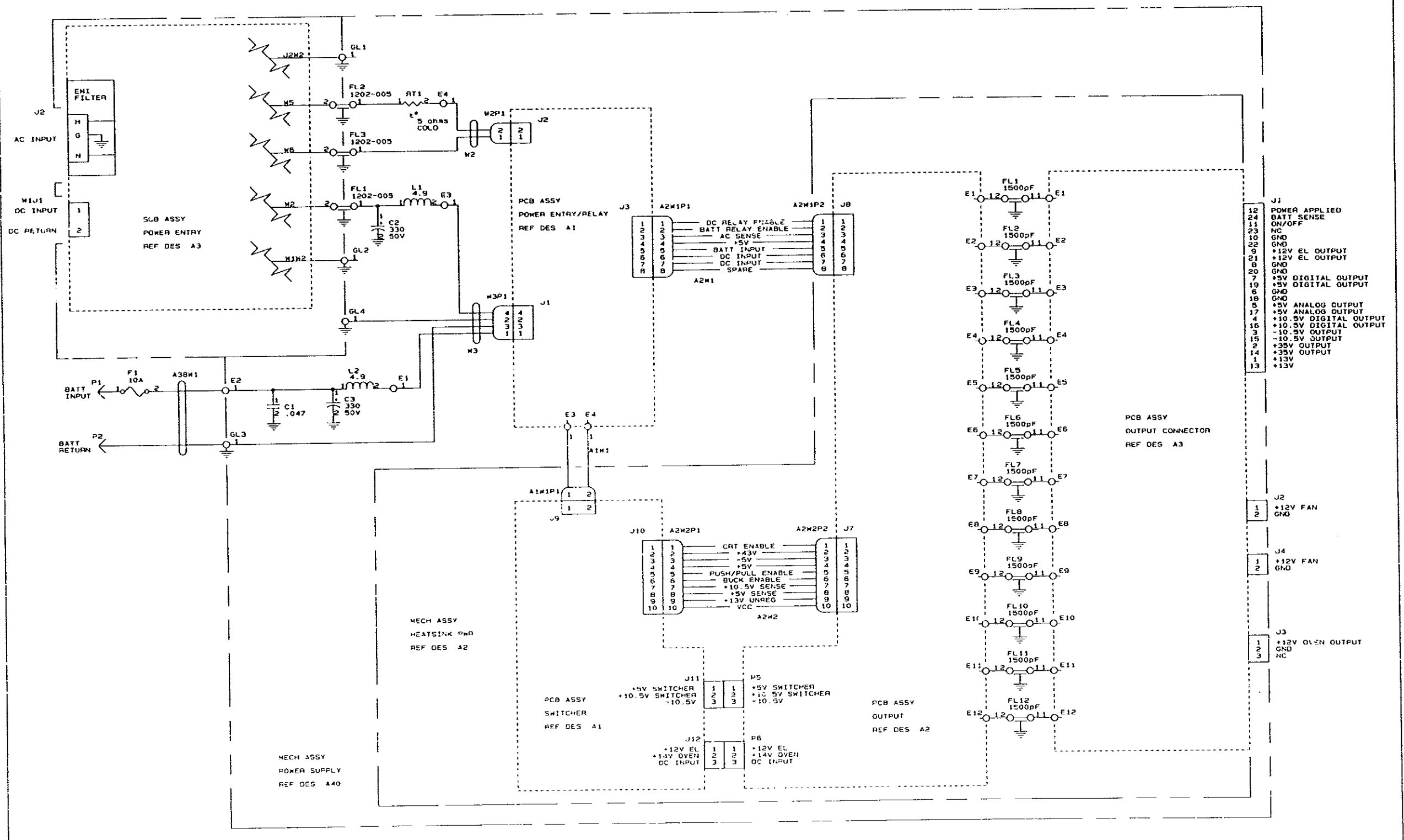












IFR SYSTEMS, INC. 10200 WEST YORK WICHITA, KS 67215 3040 SCH		
Title	INTERCONNECT, POWER SUPPLY, COM-100 B	
Size	Document Number	REV
C	0000-0642-P3	A
Date	April 5, 1992	By

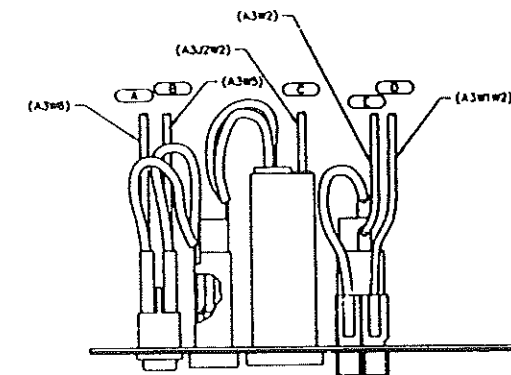
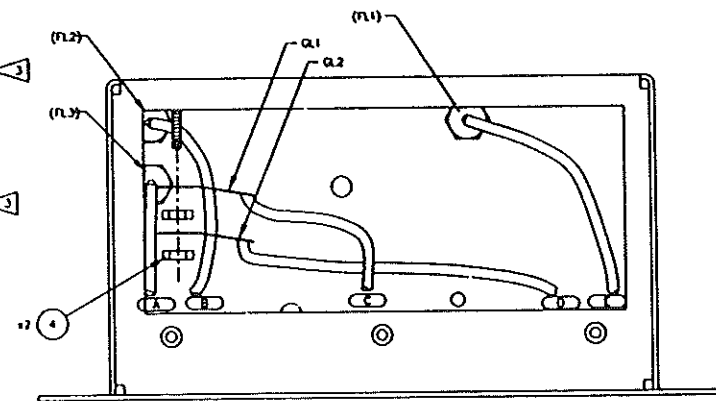
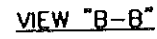
DATE	REV	CHANGE	APPROVED
3-19-96	A	RELEASE PER ECN #16824 J.I.N.	DKB

- NOTES:
(UNLESS OTHERWISE SPECIFIED)
- 1. BASIC REFERENCE DESIGNATORS SHOWN. FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 - 2. ALL RESISTORS ARE 5%, 1/4W.
 - 3. ALL RESISTANCE IS EXPRESSED IN OHMS.
ALL CAPACITANCE IS EXPRESSED IN MICROFARADS.
ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.
 - 4. HIGHEST REFERENCE DESIGNATIONS:
C3 E4 F1 FL3 GL4 L2 W3 R11 A3
 - 5. REFERENCE DESIGNATIONS NOT USED: NONE
 - 6. FOR INTERCONNECT/BLOCK DIAGRAM SEE APPLICATIONS WHERE USED
 - 7. IC FUNCTIONS NOT USED: NONE
 - 8. INDICATES PRINTED TRANSMISSION LINES OF OTHER THAN 50 OHMS IMPEDANCE WHICH CONSTITUTE CIRCUIT ELEMENTS. 50 OHM TRANSMISSION LINES ARE NOT SHOWN.



CAUTION:
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD)

DRAWN J. MILLER		3-7-94	IFR SYSTEMS, INC. 10200 W 104th STREET WICHITA, KS 67215-8415	
CHECKED DKB		4-4-95	Title INTERCONNECT POWER SUPPLY CON-120 B	
APPROVED S. PIERSON		4-6-95	Size C	Sheet 13
			Part 13	Rev A



VIEW "A-A"

TEST	FROM	TO	COLOR	WGT
01	2-100	2-1	RED	1.5
01	2-100	2-2	RED	1.5
01	2-100	2-3	RED	1.5
01	2-100	2-4	RED	1.5
01	2-100	2-5	RED	1.5
01	2-100	2-6	RED	1.5
01	2-100	2-7	RED	1.5
01	2-100	2-8	RED	1.5
01	2-100	2-9	RED	1.5
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01	2-100	2-13	RED	1.5
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01	2-100	2-22	RED	1.5
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01	2-100	2-25	RED	1.5
01	2-100	2-26	RED	1.5
01	2-100	2-27	RED	1.5
01	2-100	2-28	RED	1.5
01	2-100	2-29	RED	1.5
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01	2-100	2-97	RED	1.5
01	2-100	2-98	RED	1.5
01	2-100	2-99	RED	1.5

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE
DATE 08-22-2011 BY 60322 UCBAW/BJS

100-442280-106

100-442280-107

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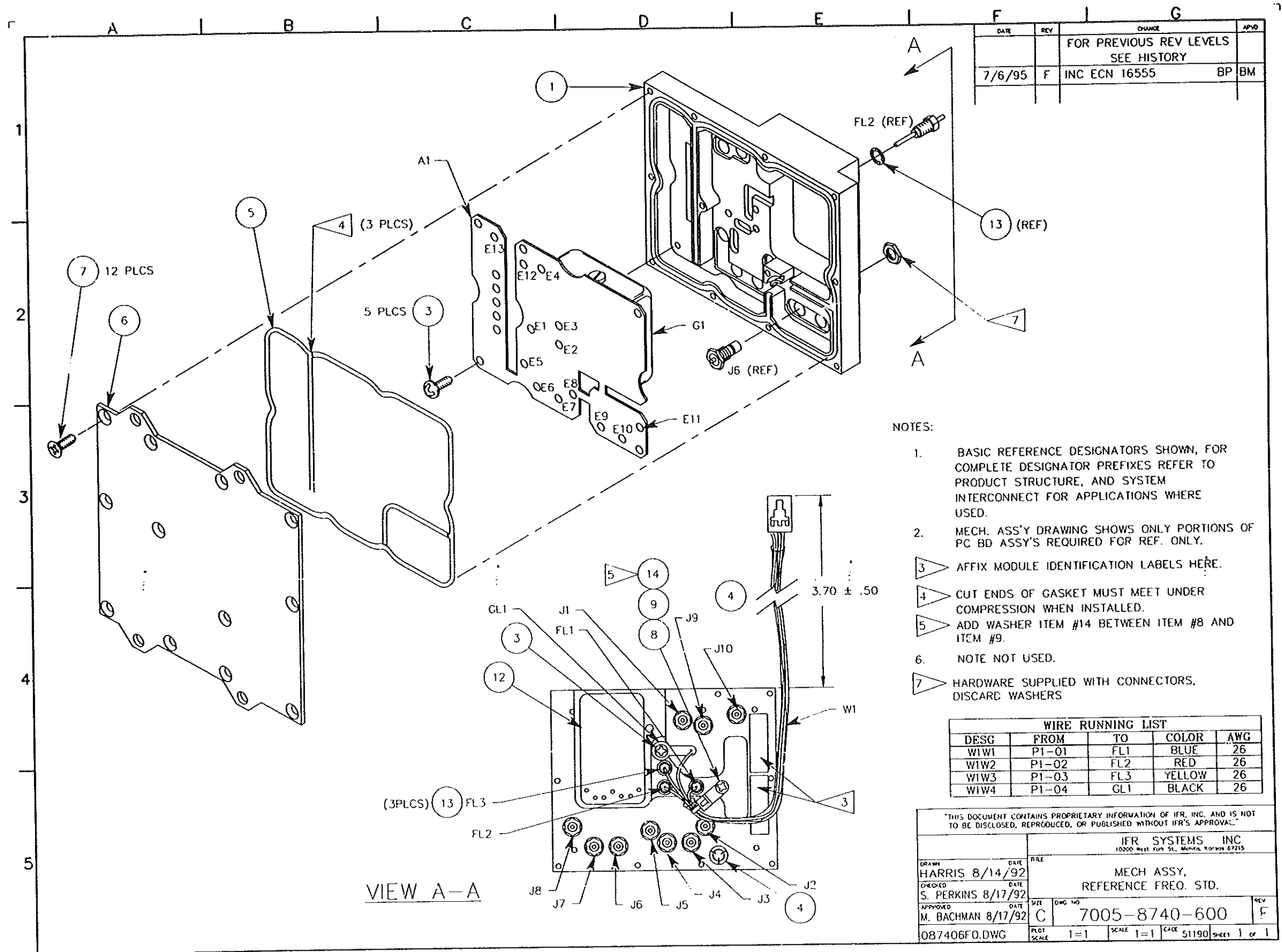
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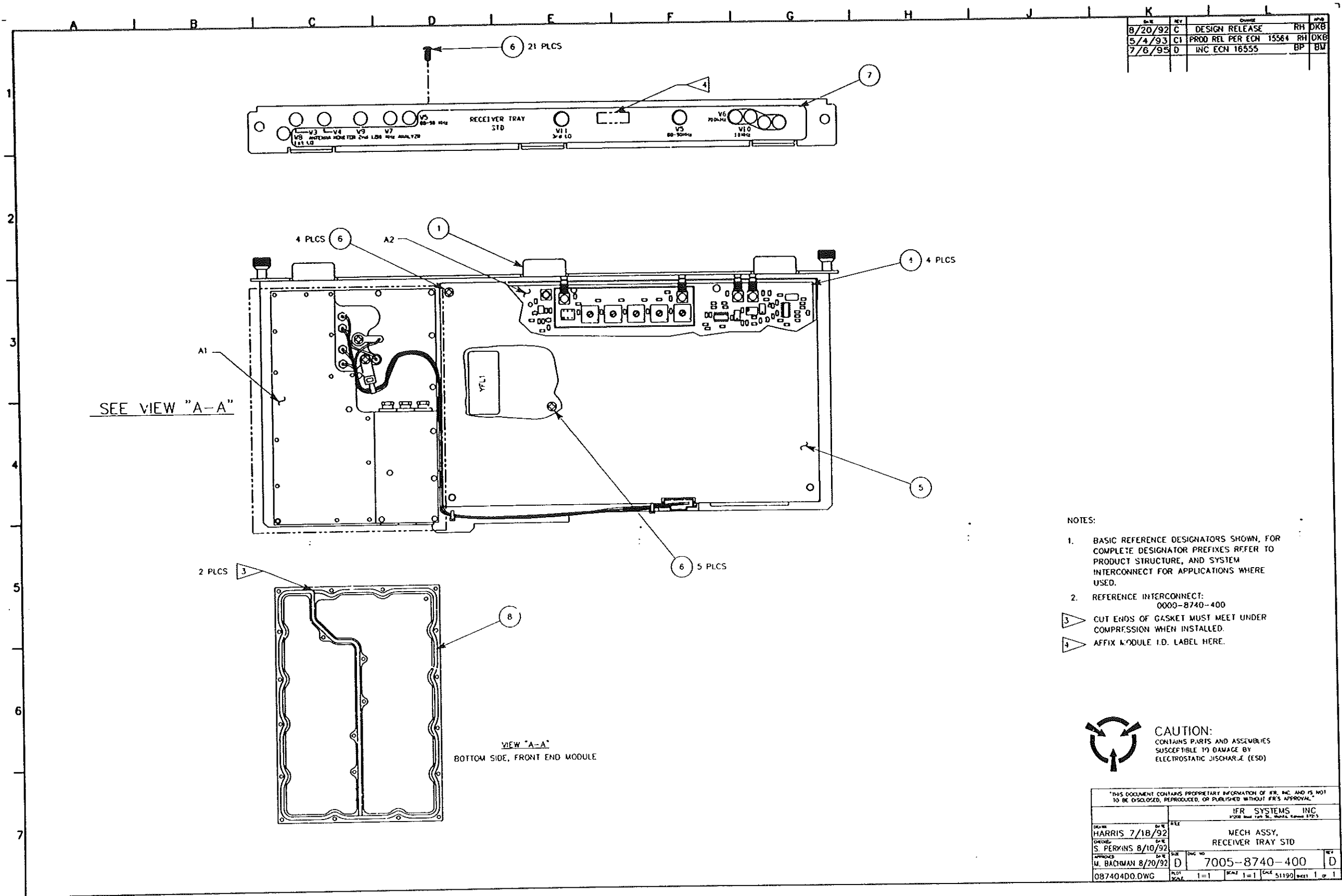
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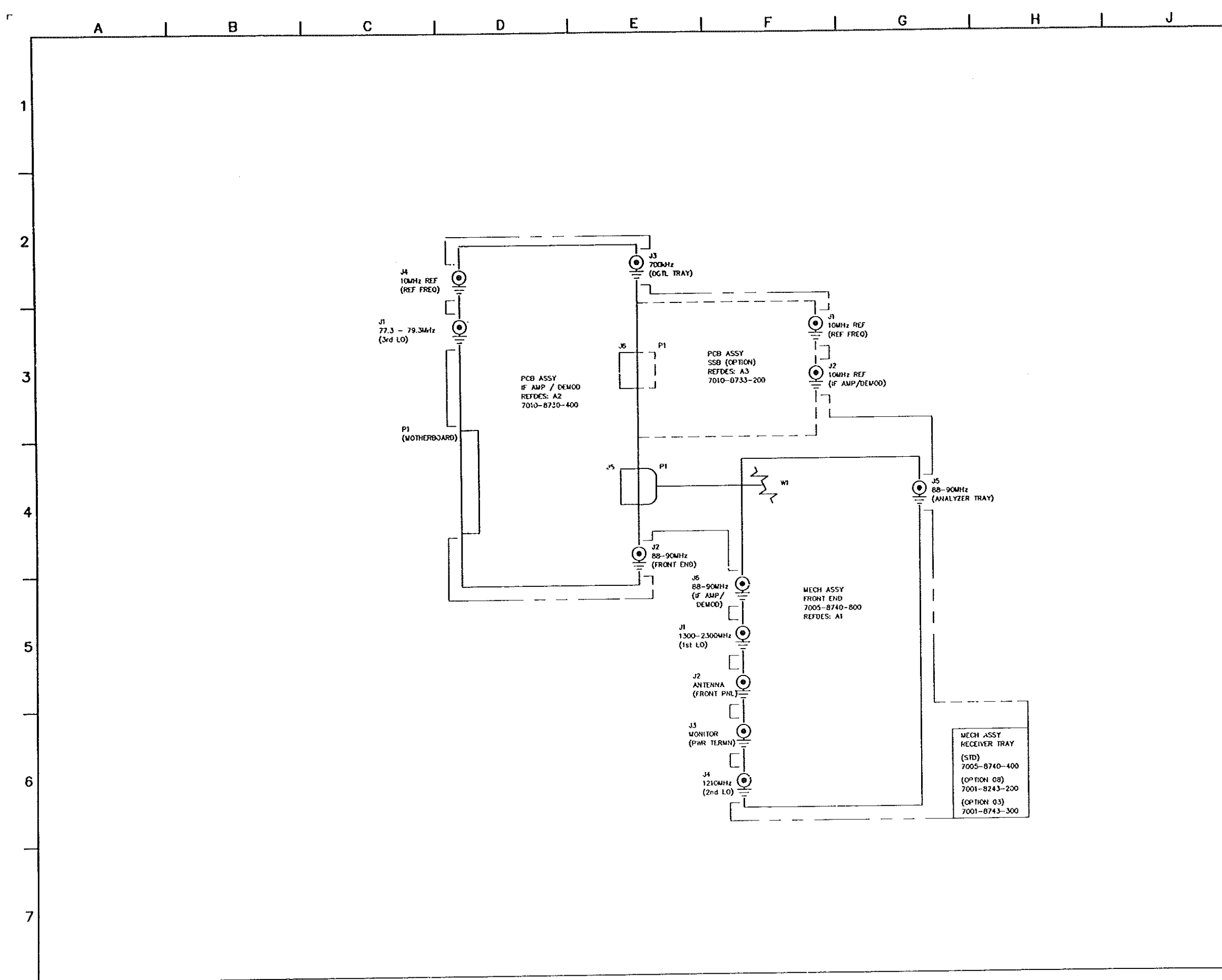
100-442280-318





REV	DATE	DESCRIPTION	BY	CHKD
8/20/92	C	DESIGN RELEASE	RH	DKB
5/4/93	C1	PROD REL PER ECH 15564	RH	DKB
7/6/95	D	INC ECH 16555	BP	BU

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF IFR, INC. AND IS NOT TO BE DISCLOSED, REPRODUCED, OR PUBLISHED WITHOUT IFR'S APPROVAL.					
IFR SYSTEMS, INC. 1700 West 17th St., Suite 100, Fort Collins, CO 80521			MECH ASSY, RECEIVER TRAY STD		
DESIGN HARRIS 7/18/92	DATE	FILE	REV	DATE	FILE
DRAWN S. PERKINS 8/10/92	DATE	FILE	REV	DATE	FILE
APPROVED M. BACHMAN 8/20/92	DATE	FILE	REV	DATE	FILE
08740400.DWG	PLT	1=1	REV	1=1	DATE 5/11/93

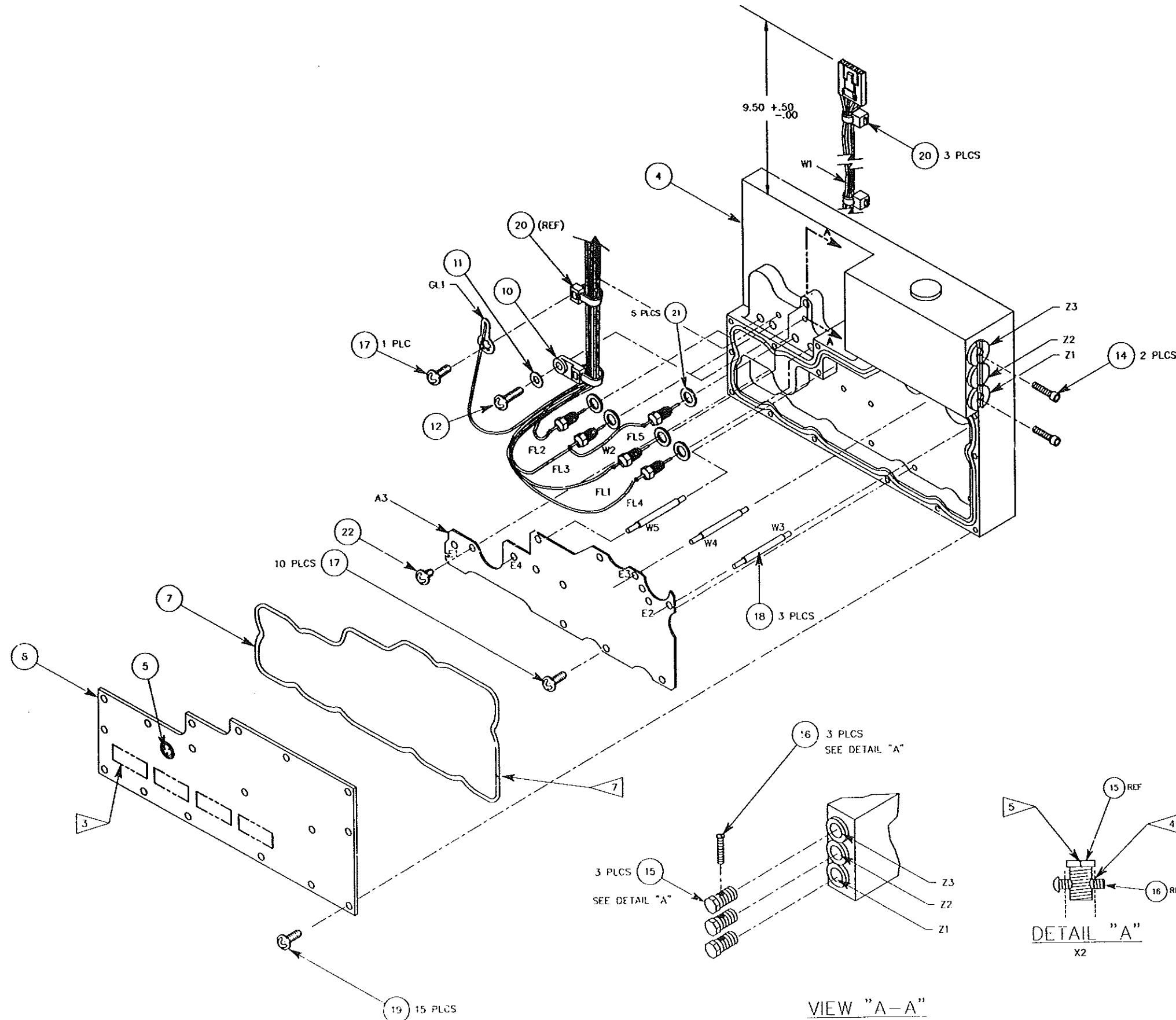


DATE	REV	CHANGE	APPROVED
8-20-92	C	DESIGN RELEASE	JLM
4-29-93	C1	PROD. REL. PER ECH #15564	JLM
08-24-93	C2	INC ECH #15769	BP
07-12-95	D	INC ECH #16555	BP

DATE	REV	CHANGE	APPROVED
8-20-92	C	DESIGN RELEASE	JLM
4-29-93	C1	PROD. REL. PER ECH #15564	JLM
08-24-93	C2	INC ECH #15769	BP
07-12-95	D	INC ECH #16555	BP

DESIGNED BY	DATE	FILE	INTERCONNECT RECEIVER TRAY
J. MILLER	6-23-92		
CHECKED BY	DATE	FILE	
E. SHIMONI	8-20-92		
APPROVED BY	DATE	FILE	
S. PIERSON	8-20-92		
087B4040.DWG	SCALE	DO NOT SCALE FROM	51190 SHEET 1 OF 1

DATE	REV	CHANGE	BY	APP
9/22/92	D1	DESIGN RELEASE	RH	DKB
10/30/92	D2	INC FMY-050		DKB
1/4/93	D3	INC FMY-095	RH	DKB
5/5/93	D4	PROD REL PER ECN 15564	RH	DKB
08/23/93	D5	PRODUCT EQUAL TO D6		
11/17/93	D6	INC ECN 15769 & 15769A	BP	BM



NOTES:

1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
2. MECH. ASSY DRAWING SHOWS ONLY PORTIONS OF FC BD ASSY'S REQUIRED FOR REF. ONLY.
3. AFFIX MODULE IDENTIFICATION LABEL HERE.
4. THREAD NYLON SCREW INTO SLUG UNTIL THREADS ARE EXTENDING PAST SLUG ABOUT EQUAL DISTANCE, CUT OFF BOTH ENDS OF SCREW FLUSH TO SLUG THREADS.
5. SCREW ITEM 6 INTO BLOCK HALF THE LENGTH OF THREADED AREA ONLY.
6. PINS ARE TO BE FULLY INSERTED INTO TUNING POLE. CUT OFF EXCESS AFTER SOLDERED.
7. CUT ENDS OF GASKET MUST MEET UNDER COMPRESSION WHEN INSTALLED.

WIRE RUNNING LIST				
DESG	FROM	TO	COLOR	AWG
WIW1	P1-01	FL4	BLUE	26
WIW2	P1-02	FL2	GRN	26
WIW3	P1-03	FL3	RED	26
WIW4	P1-04	GL1	BLK	26
WIW5	P1-05	FL1	BRN	26
W2	FL3	FL5	RED	26
W3	E2	E7	BUS	26
W4	E3	E8	BUS	26
W5	E4	E10	BUS	26

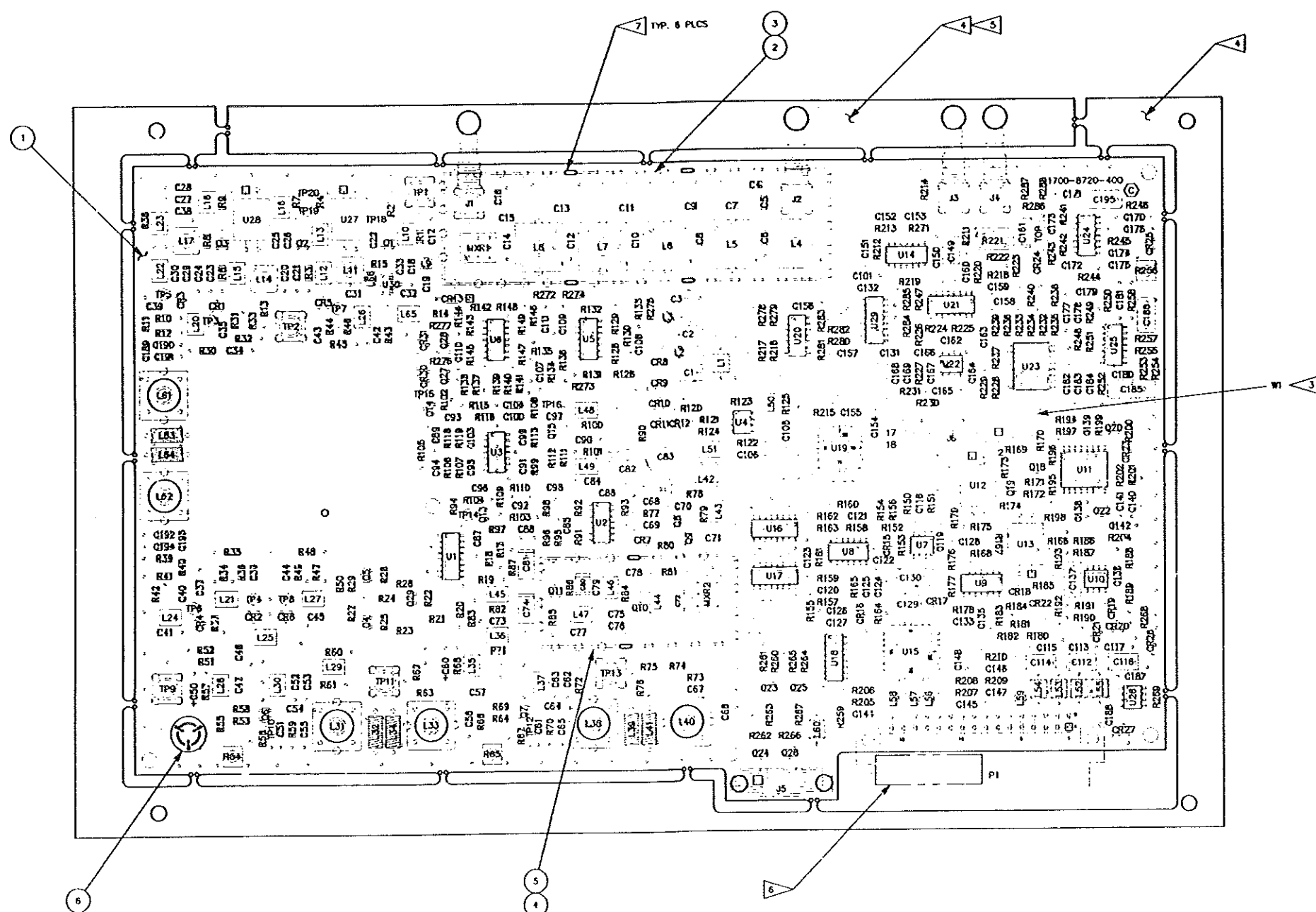


CAUTION:
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD).

VIEW "A-A"

IFR SYSTEMS, INC.			
10000 West Park Dr., Dallas, Texas 75243			
DATE HARRIS 5/12/92	FILE	MECH ASSY, FRONT END BLOCK	
CHANGED S. PERKINS 8/17/92	DATE		
APPROVED M. BACHMAN 9/22/92	DATE		
08740906.DWG	PLT PAGE	1=1	SCALE 1=1
		51190	1 of 2

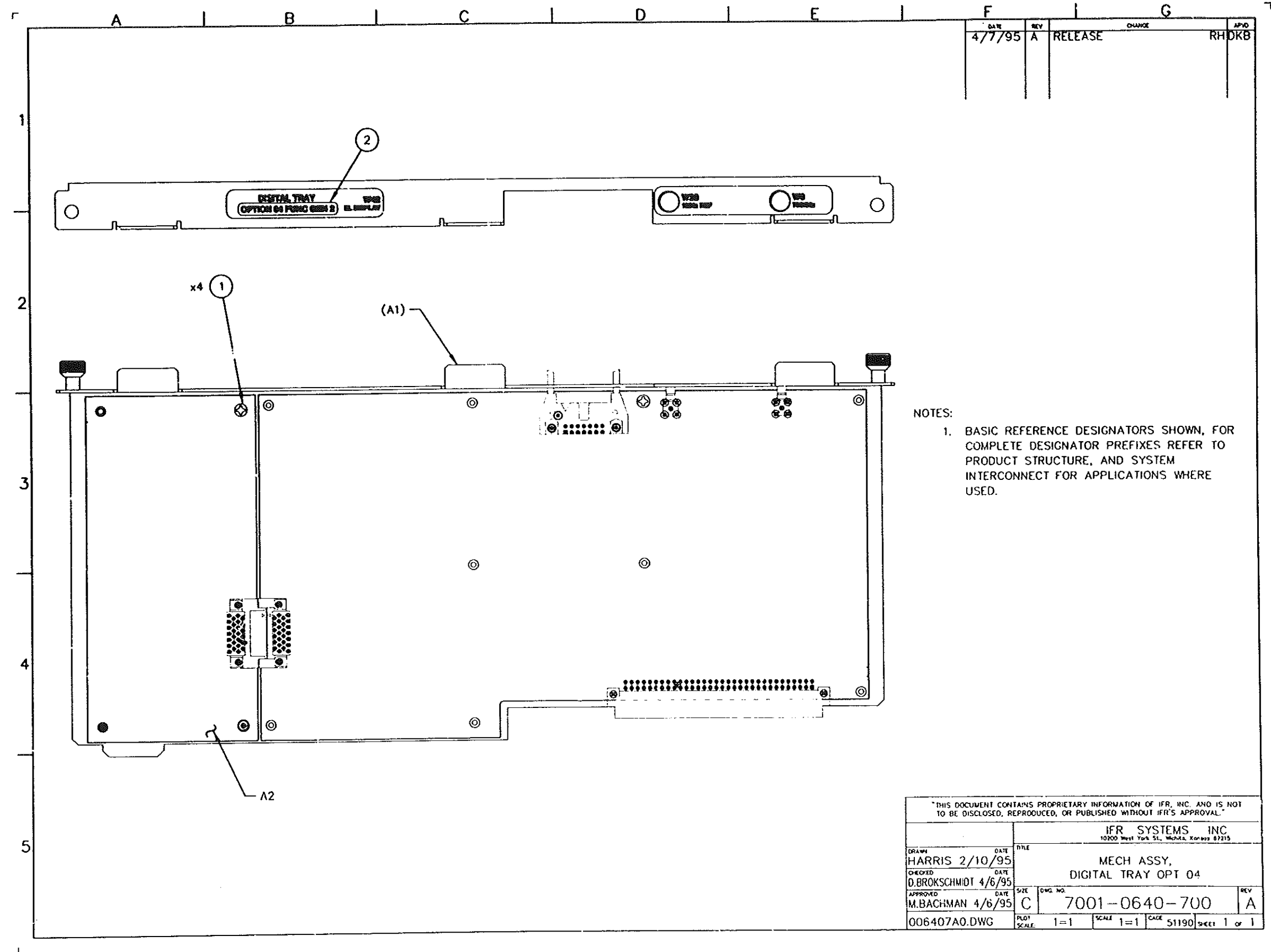
REV	DATE	DESCRIPTION	BY
8-20-92	C1	DESIGN RELEASE	DKB
10-7-92	C2	INC FMY-020	DKB
11-17-92	C3	INC FMY-062	DKB
11-18-92	C4	INC FMY-063	DKB
12-2-92	C5	INC FMY-077	CJM
1-13-93	C6	INC FMY-098	RLA
4-29-93	C7	PROD. REL. PER ECH15564	RRW
10-29-93	C8	INC ECH #15778	JLM
4-22-94	C9	INC ECH #18104	MRM
11-1-94	D	INC ECH #18308	MRM
7/12/95	E	INC ECH #18555	BP
8/10/95	F	INC ECH #18615	BP



- NOTES:
1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 2. NOTE NOT USED
 3. TO BE INSTALLED ON BOTTOM SIDE ONLY.
 4. TO BE REMOVED PRIOR TO MECH. ASSY.
 5. REMOVE AND USE AS JIG FOR INSTALLING J1, J2, J3 AND J4.
 6. AFFIX IDENT LABEL HERE.
 7. ALL TABS ON SHIELDS LOCATED AT THE SLOTS ON THE PCB SHALL BE TWISTED PRIOR TO SOLDER REFLOW.

CAUTION:
CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO
DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).

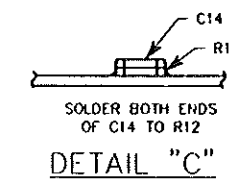
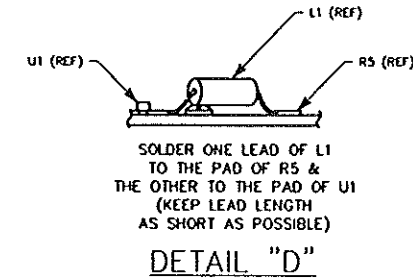
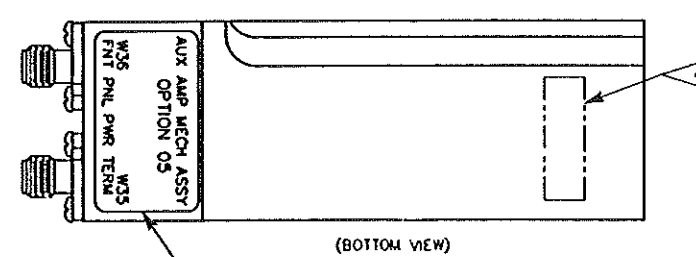
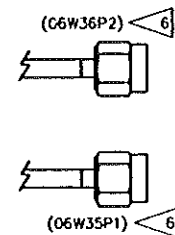
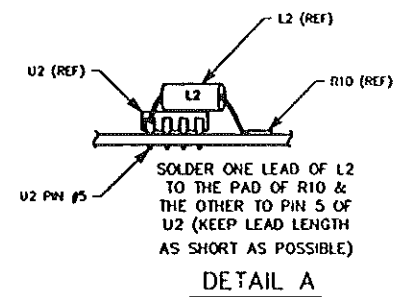
IFR SYSTEMS INC			
10000 West 10th St., Overland Park, KS 66213			
DATE	REV	ASSEMBLY DWG	
R. AST 4-10-92		IF AMP / DEMO	
DESIGNED	DATE	SIZE	BY
M. BACHMAN 8-20-92		D	F
APPROVED	DATE	7010-8730-400	
S. PIERSON 8-20-92			
108704FG-PLT	BY	N.T.S.	51190



NOTES:
 1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF IFR, INC. AND IS NOT TO BE DISCLOSED, REPRODUCED, OR PUBLISHED WITHOUT IFR'S APPROVAL.									
		IFR SYSTEMS INC 10200 West York St., Wichita, Kansas 67215							
DRAWN	DATE	TITLE							
HARRIS	2/10/95	MECH ASSY, DIGITAL TRAY OPT 04							
CHECKED	DATE								
D.BROKSCHMIDT	4/6/95								
APPROVED	DATE	SIZE	DWG NO.					REV	
M.BACHMAN	4/6/95	C	7001-0640-700					A	
006407A0.DWG		PLOT SCALE	1=1	SCALE	1=1	CAGE	51190	SHEET 1 of 1	

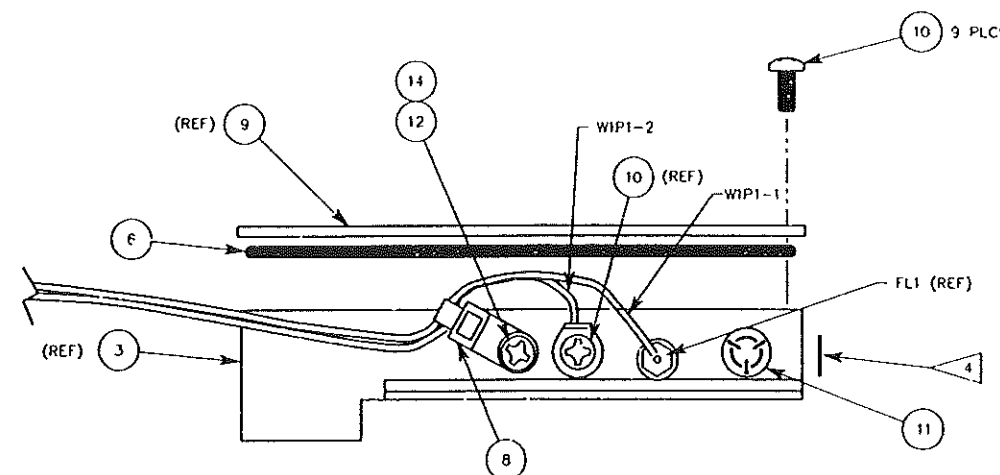
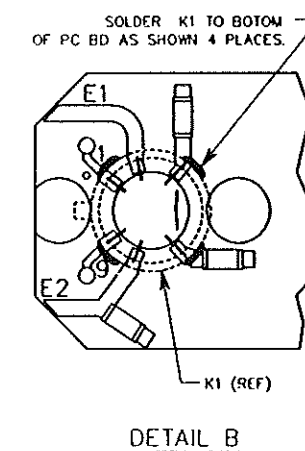
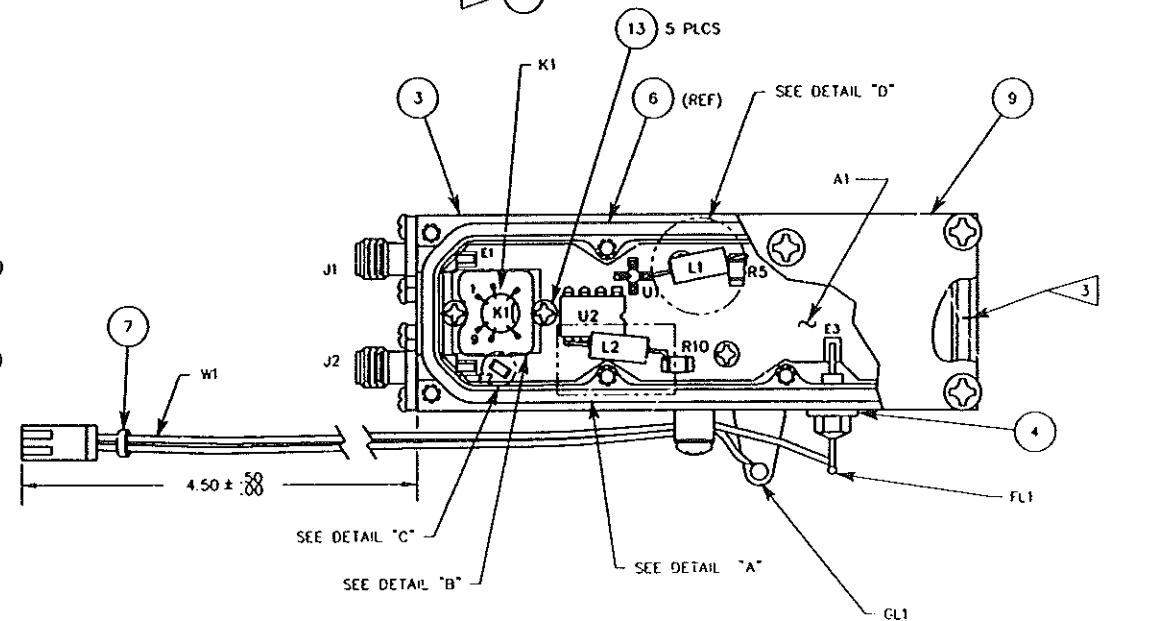
DATE	REV	DESCRIPTION	BY	CHK
5/9/95	A	RELEASE PER ECH 16576 MB	DKB	
02/01/96	A1	INC PER ECH 16881 RM	DKB	
9/16/96	B	INC PER ECH 17135 BP	MB	



NOTES:

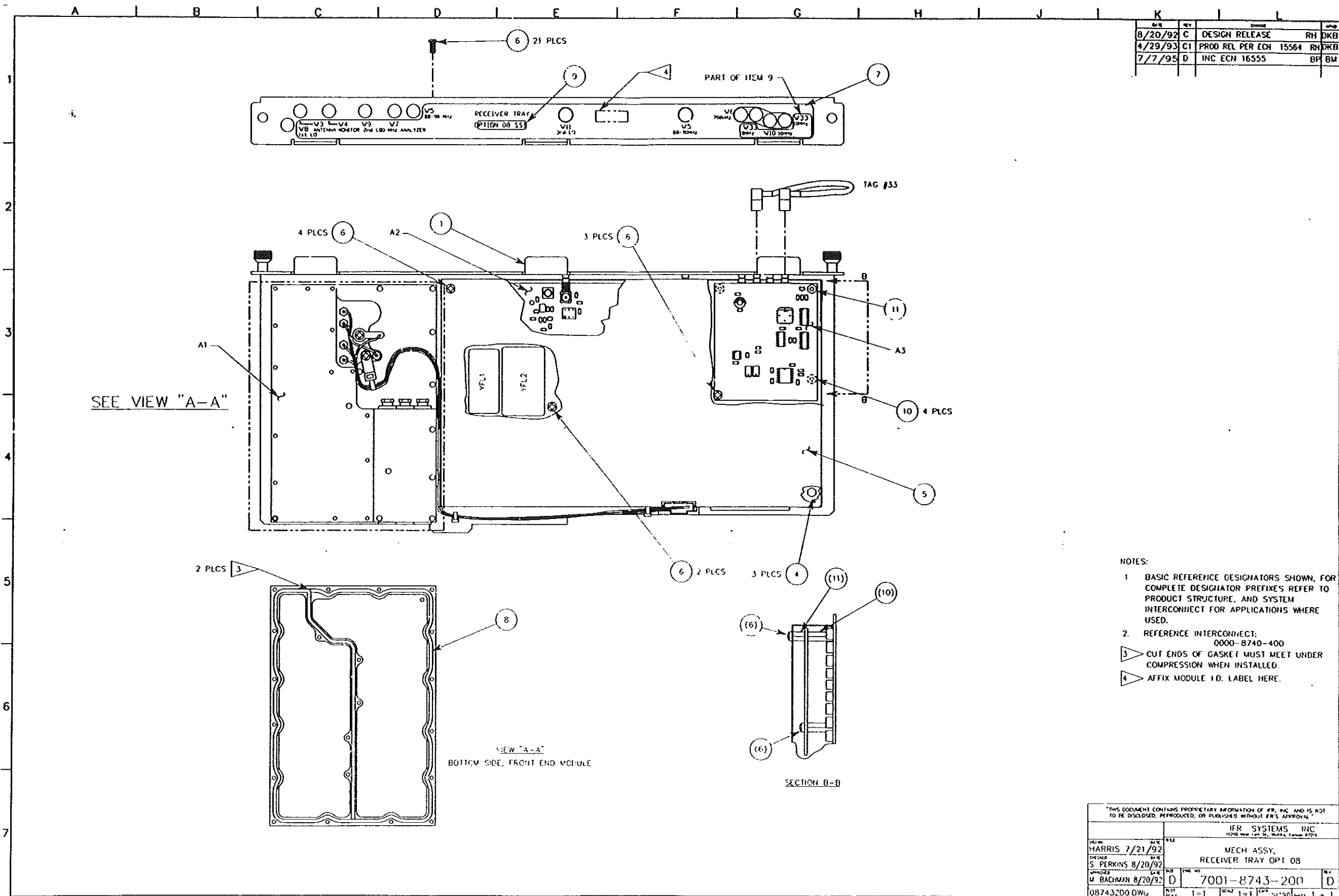
- BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
- MECH ASSY. DRAWING SHOWS ONLY PORTION OF PC BOARD ASSY REQUIRED FOR REF ONLY.
- CUT ENDS OF GASKET MUST MEET UNDER COMPRESSION WHEN INSTALLED.
- AFFIX MODULE IDENTIFICATION LABEL HERE.
- NOMENCLATURE ON LABEL IS ONLY SHOWN FOR PROPER ORIENTATION AND MAY NOT MATCH YOUR LABEL.
- INSTALL AT COMPOSITE LEVEL. (REPLACE 87W2)

WIRE RUNNING LIST				
DESC	FROM	TO	COLOR	AWG
WIW1	P1-01	FL1	RED	22
WIW2	P1-02	CL1	BLK	22



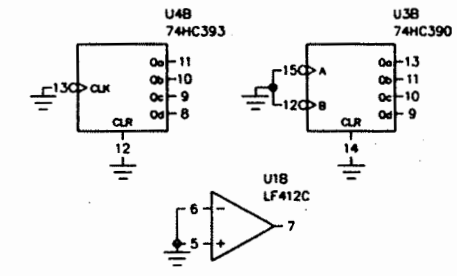
CAUTION:
CONTAINS PARTS AND ASSEMBLIES
SUSCEPTIBLE TO DAMAGE BY
ELECTROSTATIC DISCHARGE (ESD)

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF IFR, INC AND IS NOT TO BE DISCLOSED, REPRODUCED, OR PUBLISHED WITHOUT IFR'S APPROVAL.				
			IFR SYSTEMS, INC 10000 Red Oak Dr., Dallas, Texas 75243	
DATE 5/9/95	BY M BRUFFETT	FILE MECH ASSY, AUXILIARY AMP OPT 05		
DATE 5/11/95	BY R HARRIS			
DATE 5/15/95	BY M BACHMAN	7005-0641-200	REV B	
006412B0.DWG	1 of 1	1 of 1	1 of 1	1 of 1



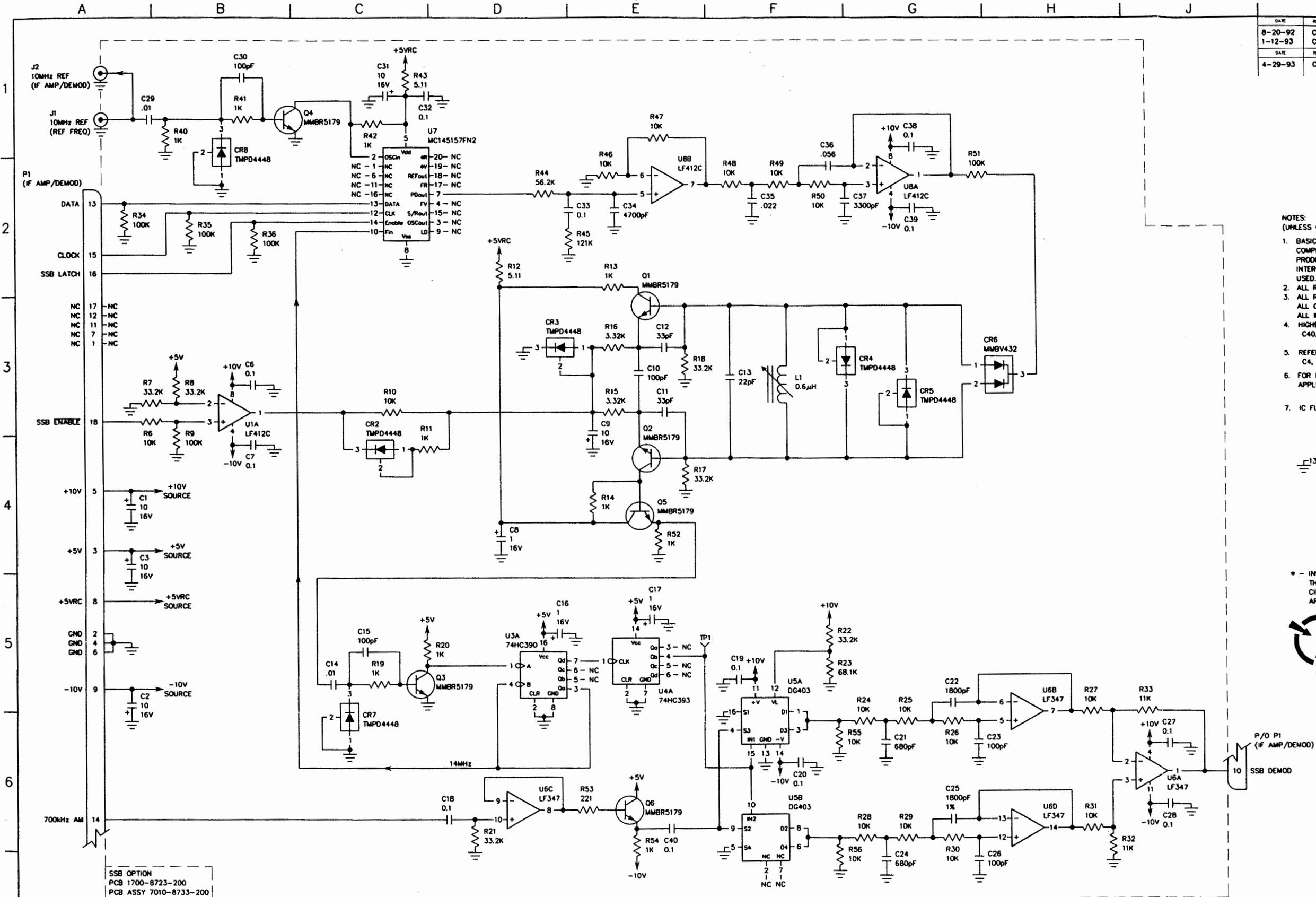
DATE	REV	CHANGE	APPROVED
8-20-92	C	DESIGN RELEASE	J.I.M.
1-12-93	C1	INC REF #JMY-099	J.I.M.
4-29-93	C2	PROD. REL. PER ECH #15564	J.I.M.
			DKB

- NOTES:
(UNLESS OTHERWISE SPECIFIED)
1. BASIC REFERENCE DESIGNATORS SHOWN, FOR COMPLETE DESIGNATOR PREFIXES REFER TO PRODUCT STRUCTURE, AND SYSTEM INTERCONNECT FOR APPLICATIONS WHERE USED.
 2. ALL RESISTORS ARE 1%, 1/8W.
 3. ALL CAPACITANCE IS EXPRESSED IN OHMS. ALL CAPACITANCE IS EXPRESSED IN MICROFARADS. ALL INDUCTANCE IS EXPRESSED IN MICROHENRIES.
 4. HIGHEST REFERENCE DESIGNATIONS. C40, R56, L1, CR8, Q6, U8, TP1, P1, J2.
 5. REFERENCE DESIGNATIONS NOT USED. C4, C5, R1-R5, R37-R39, CR1, U2.
 6. FOR INTERCONNECT/BLOCK DIAGRAM SEE APPLICATIONS WHERE USED.
 7. IC FUNCTIONS NOT USED:



* - INDICATES PRINTED TRANSMISSION LINES OF OTHER THAN 50 OHMS IMPEDANCE WHICH CONSTITUTE CIRCUIT ELEMENTS. 50 OHM TRANSMISSION LINES ARE NOT SHOWN.

CAUTION:
CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).



SSB OPTION
PCB 1700-8723-200
PCB ASSY 7010-8733-200

IFR SYSTEMS, INC.			
10200 West York St., Houston, Texas 77055			
DRAWN J. MILLER	DATE 1-9-92	TITLE CIRCUIT SCHEMATIC SSB OPTION	REV C2
CHECKED DEB B.	DATE 8-20-92	SIZE D	QWC NO. 0000-8733-200
APPROVED S. PIERSON	DATE 8-20-92	SCALE	DO NOT SCALE FROM 51190 SHEET 1 OF 1