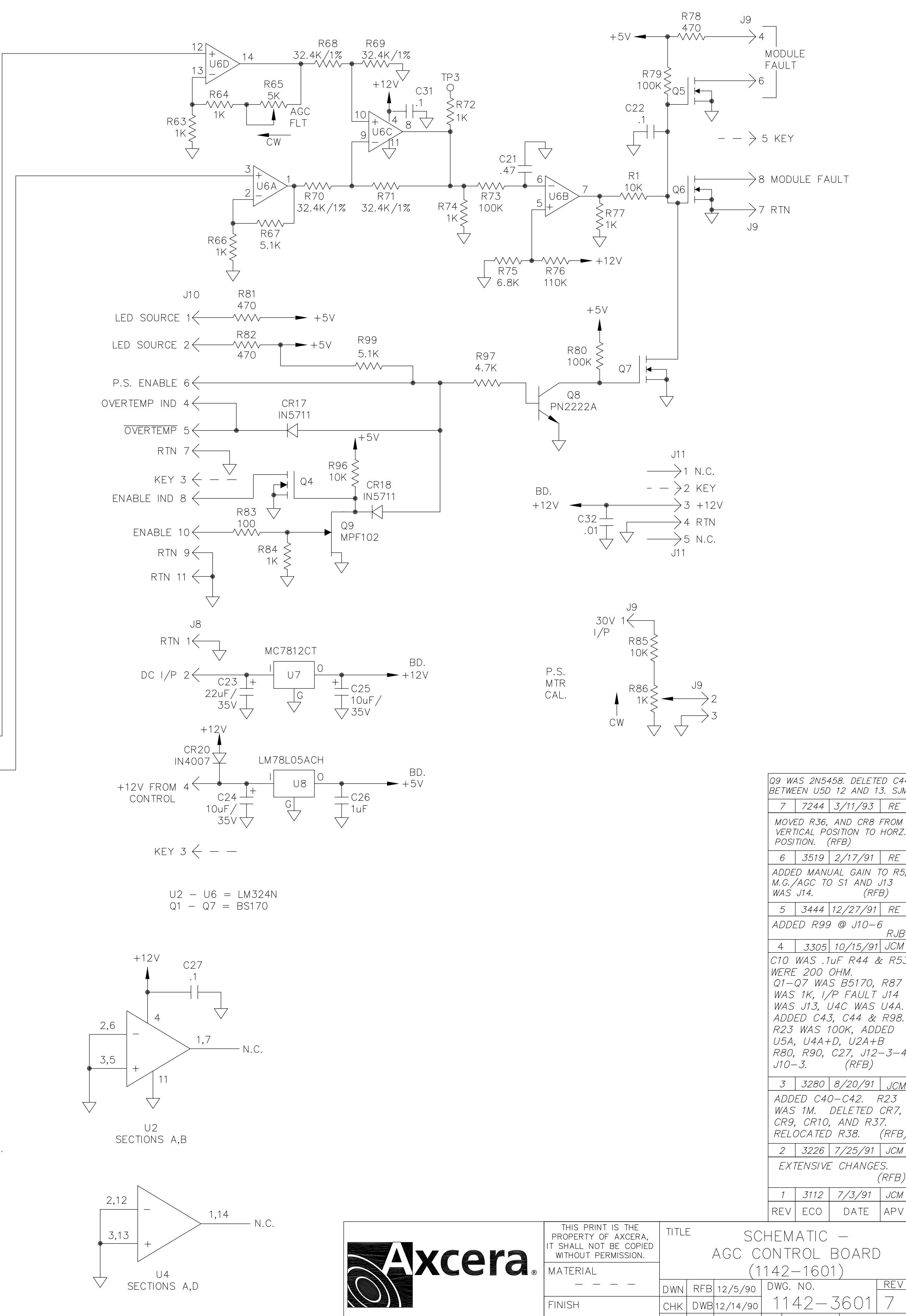
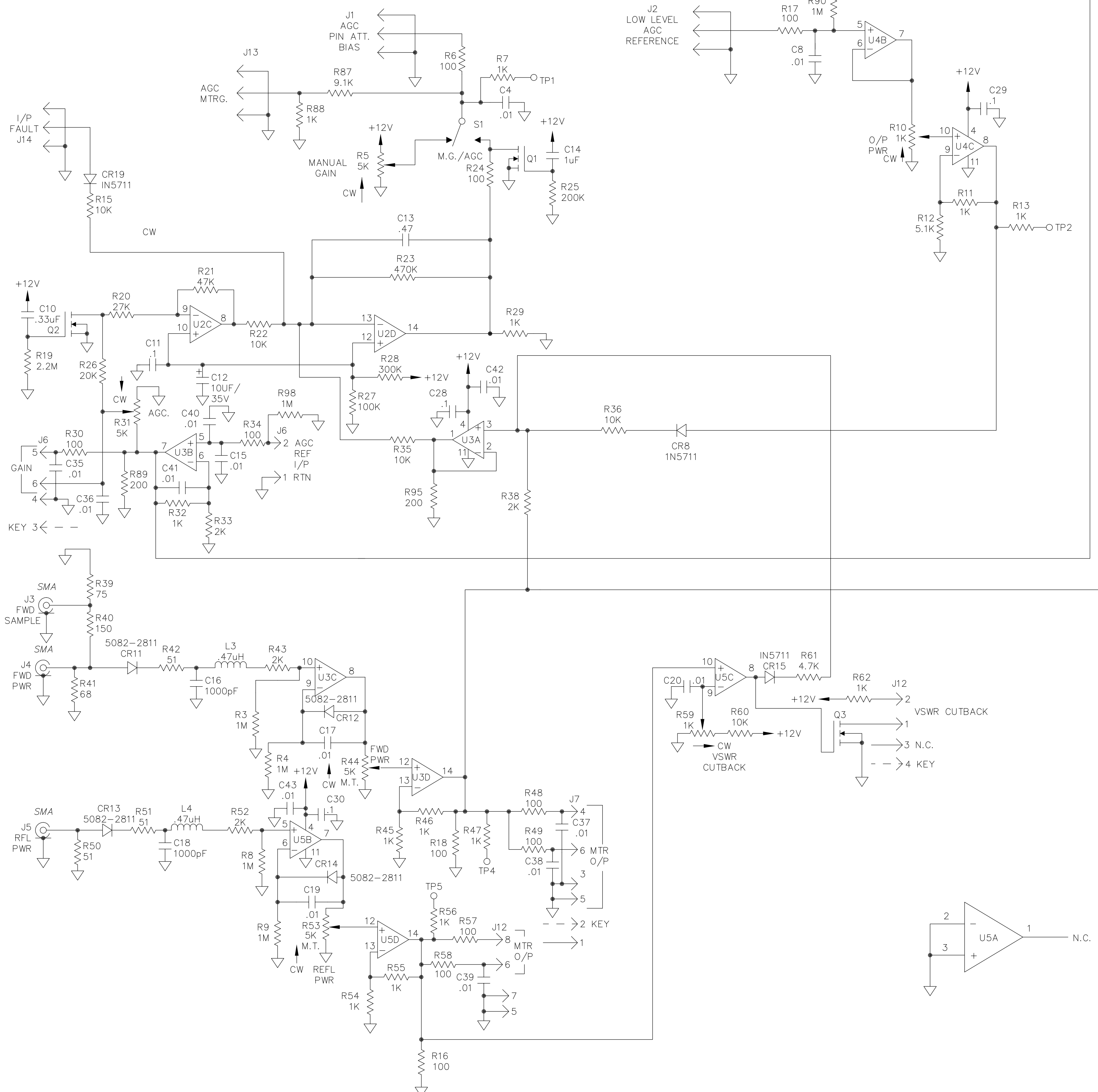




09	WAS 2N5458. DELETED C44 BETWEEN U5D 12 AND 13. SJM
7	7244 3/11/93 RE
MOVED R36, AND CR8 FROM VERTICAL POSITION TO HORZ. POSITION. (RFB)	
6	3519 2/17/91 RE
ADDED MANUAL GAIN TO R5, M.G./AGC TO S1 AND J13 WAS J14. (RFB)	
5	3444 12/27/91 RE
ADDED R99 @ J10-6 RJB	
4	3305 10/15/91 JCM
C10 WAS .1uF R44 & R53 WERE 200 OHM. Q1-Q7 WAS B5170, R87 WAS 1K, I/P FAULT J14 WAS J13, U4C WAS U4A. ADDED C43, C44 & R98. R23 WAS 100K, ADDED U5A, U4A+D, U2A+B, R80, R90, C27, J12-3-4, J10-3. (RFB)	
ADDED C40-C42. R23 WAS 1M. DELETED CR7, CR9, CR10, AND R37. RELOCATED R38. (RFB)	
2	3226 7/25/91 JCM
EXTENSIVE CHANGES. (RFB)	
1	3112 7/3/91 JCM
REV	ECO DATE APV



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MATERIAL
FINISH

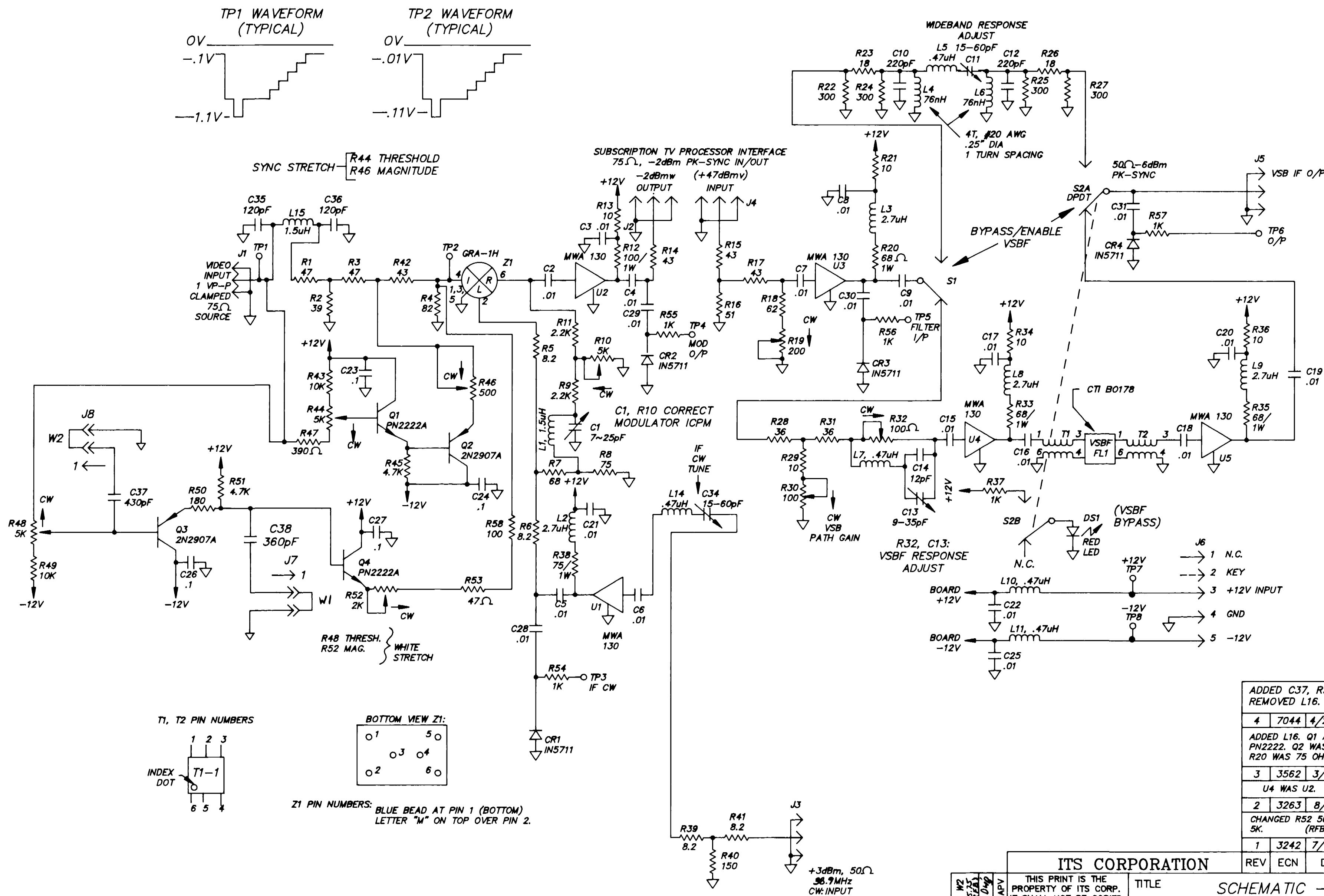
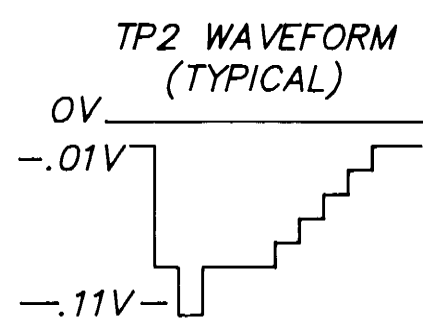
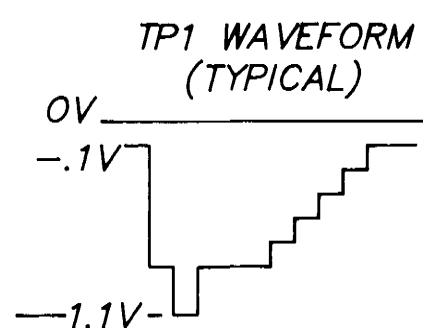
TITLE
SCHEMATIC -
AGC CONTROL BOARD
(1142-1601)

DWN RFB 12/5/90
CHK DWB 12/14/90
REL DWB 12/14/90

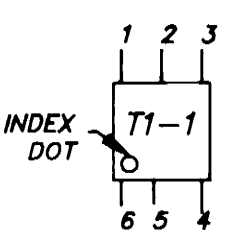
DWG. NO.
1142-3601

REV
7

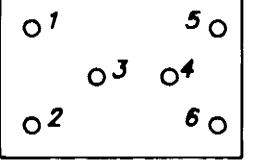
SCALE - - SHEET 1 OF 1



T1, T2 PIN NUMBERS



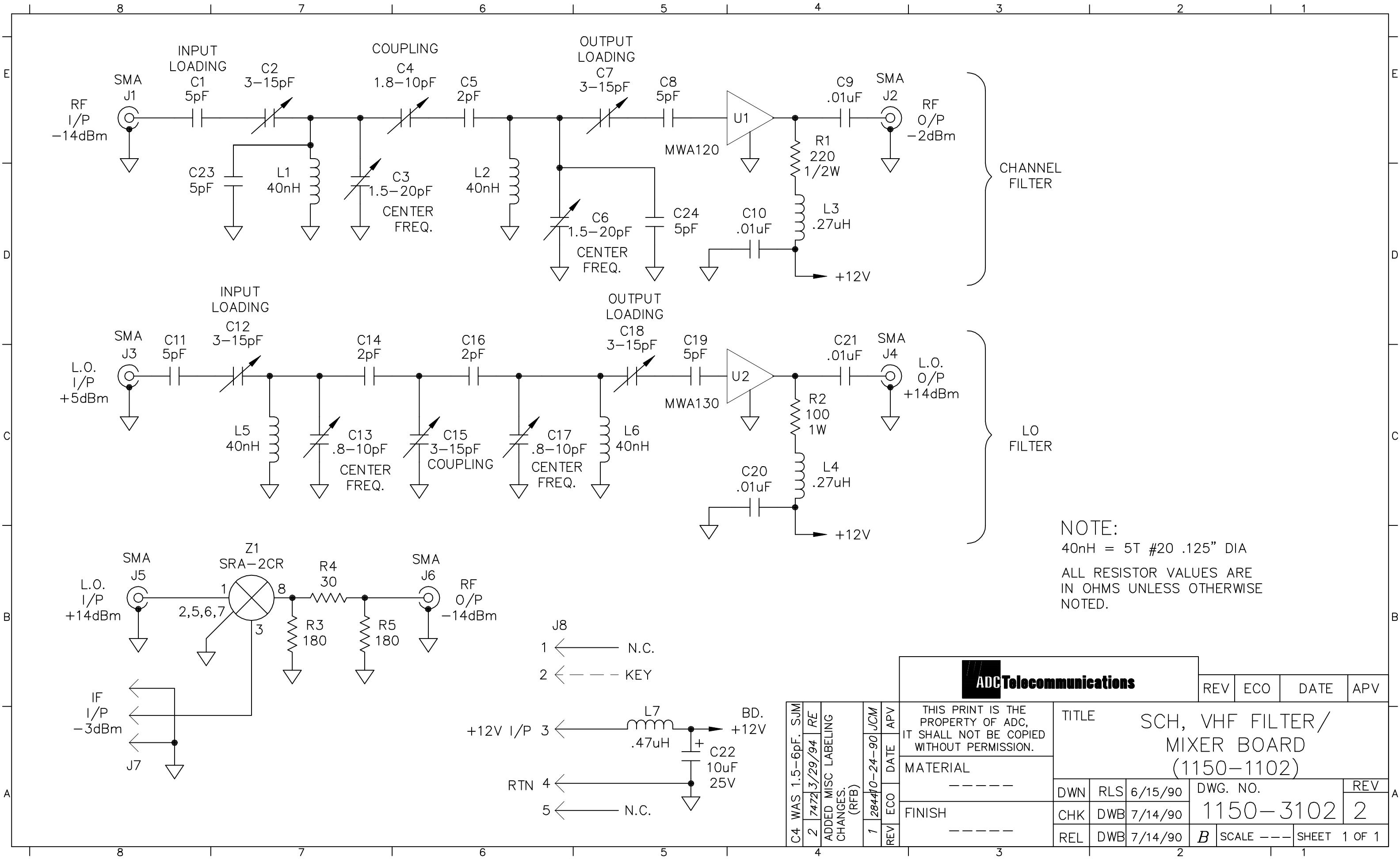
BOTTOM VIEW Z1:



Z1 PIN NUMBERS: BLUE BEAD AT PIN 1 (BOTTOM)
LETTER "M" ON TOP OVER PIN 2.

ADDED C37, R58 AND REMOVED L16. (RFB)				
4	7044	4/29/92	JRA	
ADDED L16. Q1 AND Q4 WAS PN2222. Q2 WAS 2N2907. R20 WAS 75 OHM. (RFB)				
3	3562	3/5/92	RE	
U4 WAS U2. (SUM)				
2	3263	8/7/91	JCM	
CHANGED R52 500 TO R52 5K. (RFB)				
1	3242	7/31/91	KF	
REV	ECN	DATE	APV	

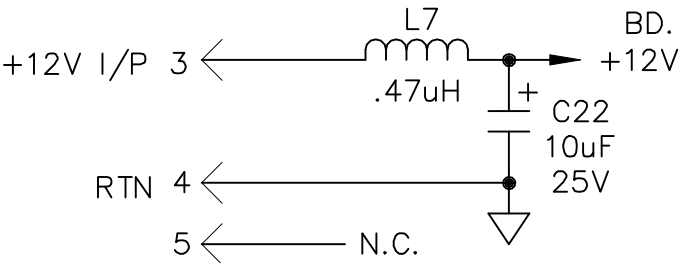
ITS CORPORATION				
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				
MATERIAL				
FINISH				
TITLE				
SCHEMATIC - VISUAL MODULATOR BD. PAL B/G (1142-1201)				
DWG. NO. 1142-3201				
REV				
5	7145	9/16/92	DW	
4	7145	9/16/92	DW	
3	7145	9/16/92	DW	
2	7145	9/16/92	DW	
1	7145	9/16/92	DW	
REV	ECN	DATE	APV	



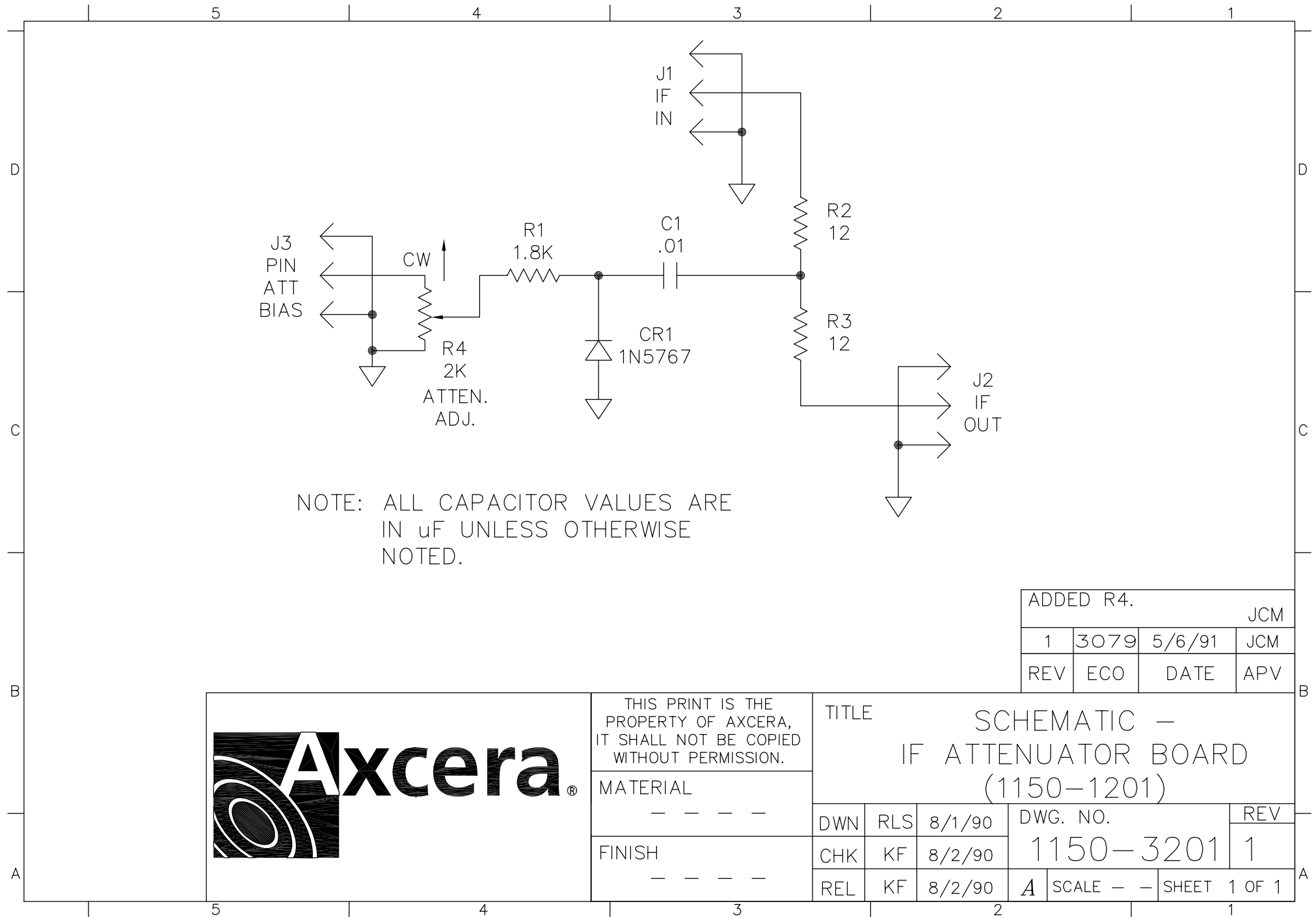
NOTE:
40nH = 5T #20 .125" DIA
ALL RESISTOR VALUES ARE
IN OHMS UNLESS OTHERWISE
NOTED.

ADC Telecommunications			REV	ECO	DATE	APV
THIS PRINT IS THE PROPERTY OF ADC, IT SHALL NOT BE COPIED WITHOUT PERMISSION.			TITLE SCH, VHF FILTER/ MIXER BOARD (1150-1102)			
MATERIAL -----			DWN	RLS	6/15/90	DWG. NO.
FINISH -----			CHK	DWB	7/14/90	1150-3102
			REL	DWB	7/14/90	B SCALE --- SHEET 1 OF 1

C4 WAS 1.5-6pF. SUM	2	7472	3/29/94	RE
ADDED MISC LABELING CHANGES. (RFB)	1	2844	10-24-90	JCM
REV	ECO	DATE	APV	



- J8
1 ← N.C.
2 ← --- KEY



ADDED R4.				JCM
1	3079	5/6/91	JCM	
REV	ECO	DATE	APV	



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PROPERTY OF AXCERA,
IT SHALL NOT BE COPIED
WITHOUT PERMISSION.

MATERIAL

— — — —

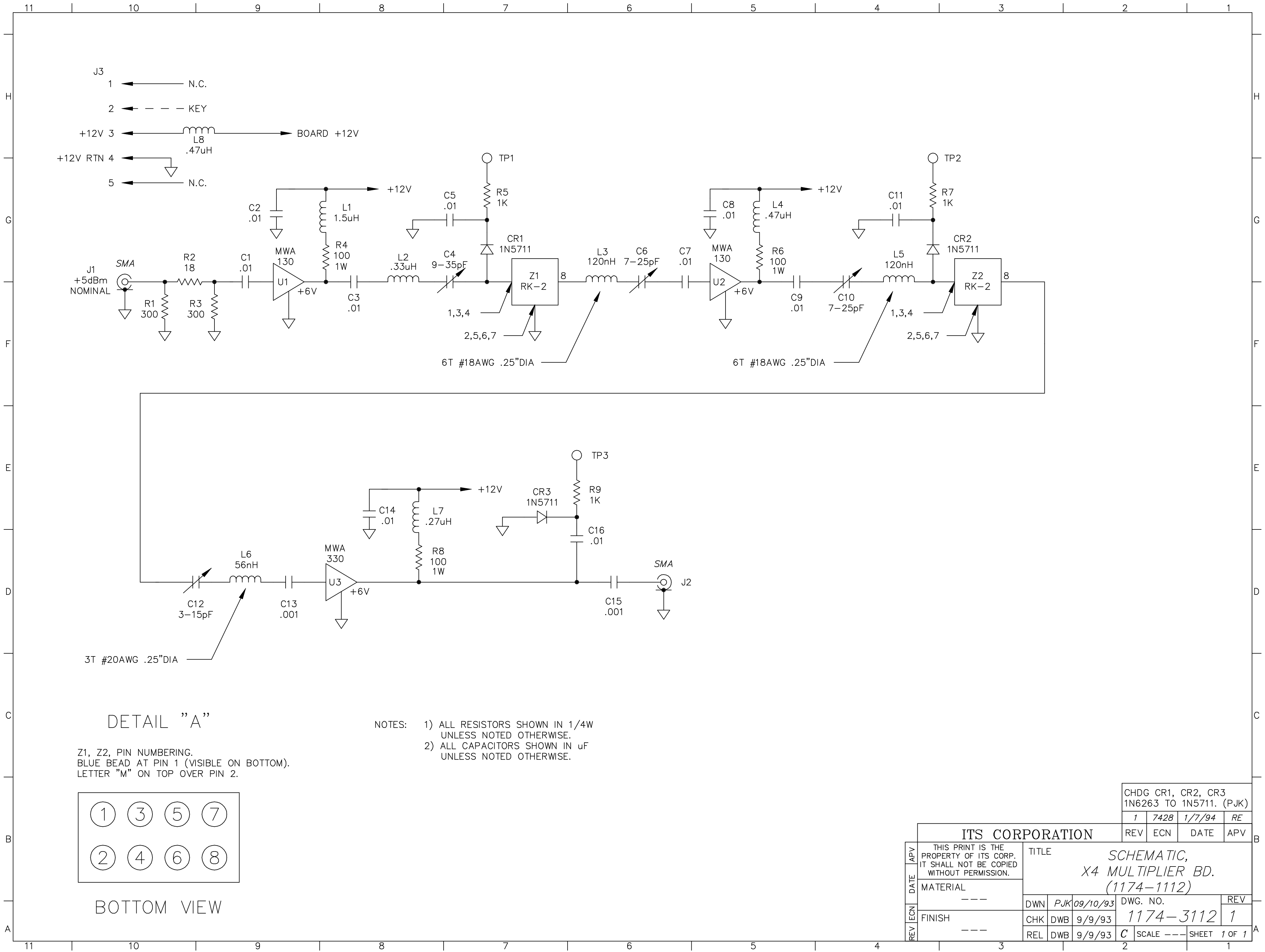
FINISH

— — — —

TITLE

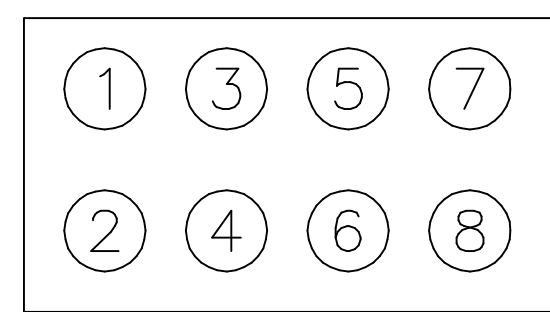
SCHEMATIC —
IF ATTENUATOR BOARD
(1150-1201)

DWN	RLS	8/1/90	DWG. NO.		REV
CHK	KF	8/2/90	1150-3201		1
REL	KF	8/2/90	A	SCALE —	SHEET 1 OF 1



DETAIL "A"

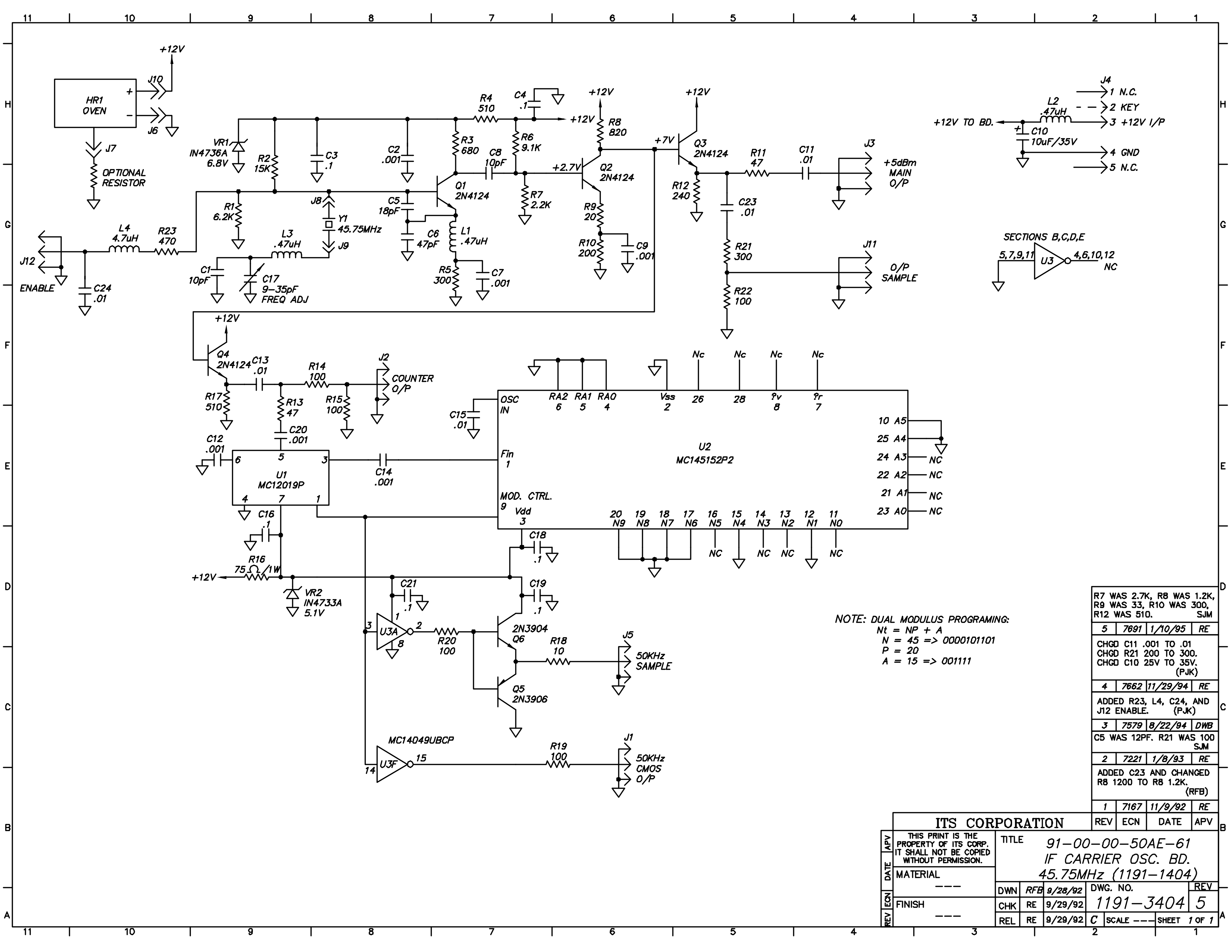
Z1, Z2, PIN NUMBERING.
BLUE BEAD AT PIN 1 (VISIBLE ON BOTTOM).
LETTER "M" ON TOP OVER PIN 2.



BOTTOM VIEW

- NOTES:
- 1) ALL RESISTORS SHOWN IN 1/4W UNLESS NOTED OTHERWISE.
 - 2) ALL CAPACITORS SHOWN IN uF UNLESS NOTED OTHERWISE.

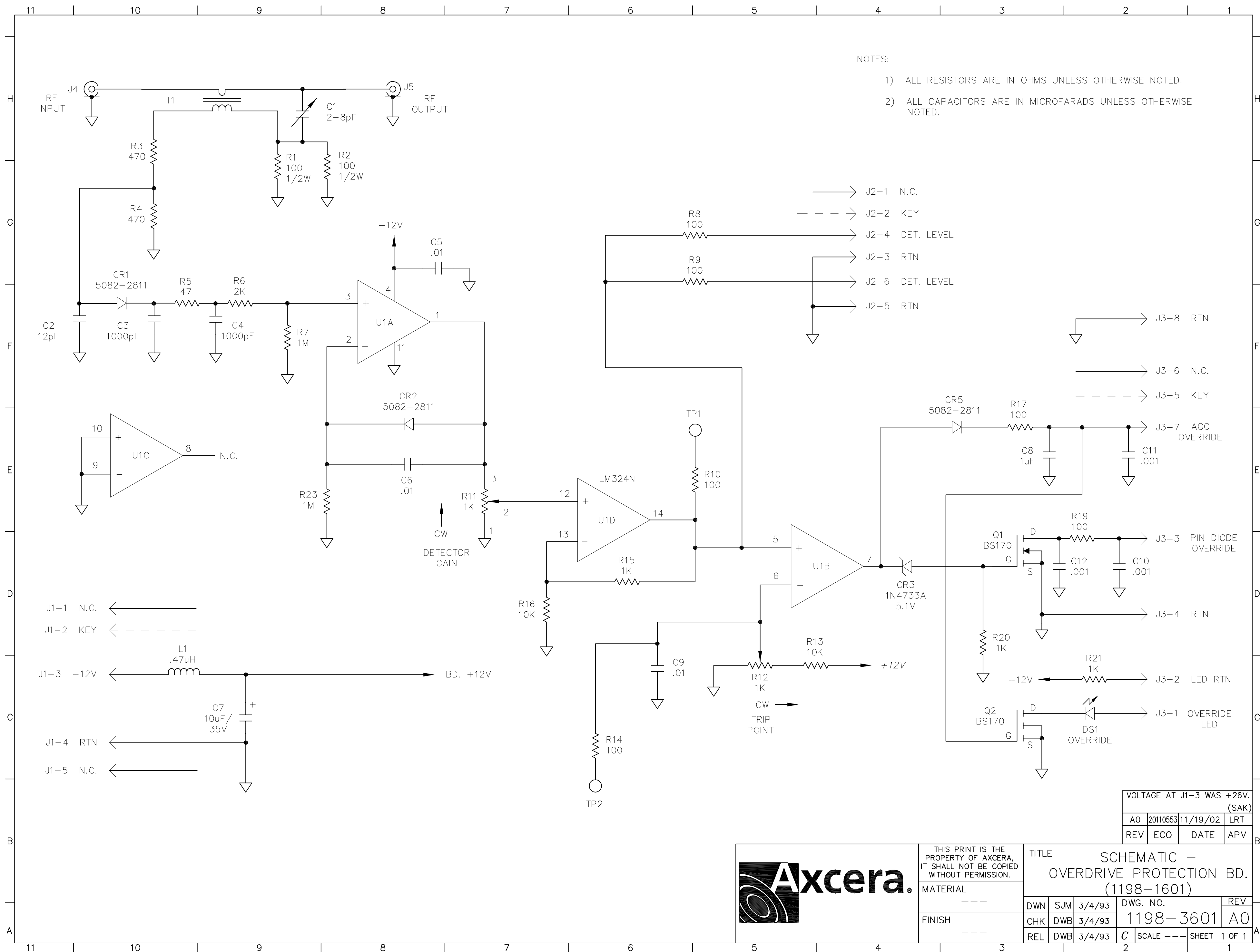
CHDG CR1, CR2, CR3 1N6263 TO 1N5711. (PJK)			
1	7428	1/7/94	RE
REV	ECN	DATE	APV
ITS CORPORATION			
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.		TITLE SCHEMATIC, X4 MULTIPLIER BD. (1174-1112)	
APV	MATERIAL ---		REV
DATE	DWN	PJK 09/10/93	DWG. NO.
ECN	CHK	DWB 9/9/93	1174-3112
REV	REL	DWB 9/9/93	1
SCALE ---		SHEET 1 OF 1	



NOTE: DUAL MODULUS PROGRAMMING:
Nt = NP + A
N = 45 => 0000101101
P = 20
A = 15 => 001111

R7 WAS 2.7K, R8 WAS 1.2K, R9 WAS 33, R10 WAS 300, R12 WAS 510. SJM			
5	7691	1/10/95	RE
CHGD C11 .001 TO .01 CHGD R21 200 TO 300. CHGD C10 25V TO 35V. (PJK)			
4	7662	11/29/94	RE
ADDED R23, L4, C24, AND J12 ENABLE. (PJK)			
3	7579	8/22/94	DWB
C5 WAS 12PF. R21 WAS 100 SJM			
2	7221	1/8/93	RE
ADDED C23 AND CHANGED R8 1200 TO R8 1.2K. (RFB)			
1	7167	11/9/92	RE

ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE 91-00-00-50AE-61 IF CARRIER OSC. BD. 45.75MHz (1191-1404)			
				MATERIAL ---			
FINISH ---				DWN	RFB	9/28/92	DWG. NO.
				CHK	RE	9/29/92	1191-3404
REL				REL	RE	9/29/92	C
				SCALE --- SHEET 1 OF 1			



- NOTES:
- 1) ALL RESISTORS ARE IN OHMS UNLESS OTHERWISE NOTED.
 - 2) ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE NOTED.

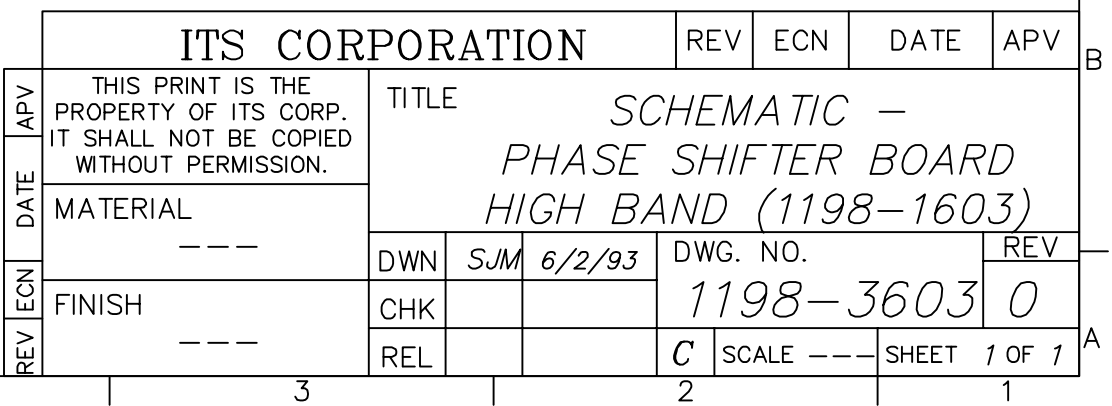
- > J2-1 N.C.
- - - -> J2-2 KEY
- > J2-4 DET. LEVEL
- > J2-3 RTN
- > J2-6 DET. LEVEL
- > J2-5 RTN

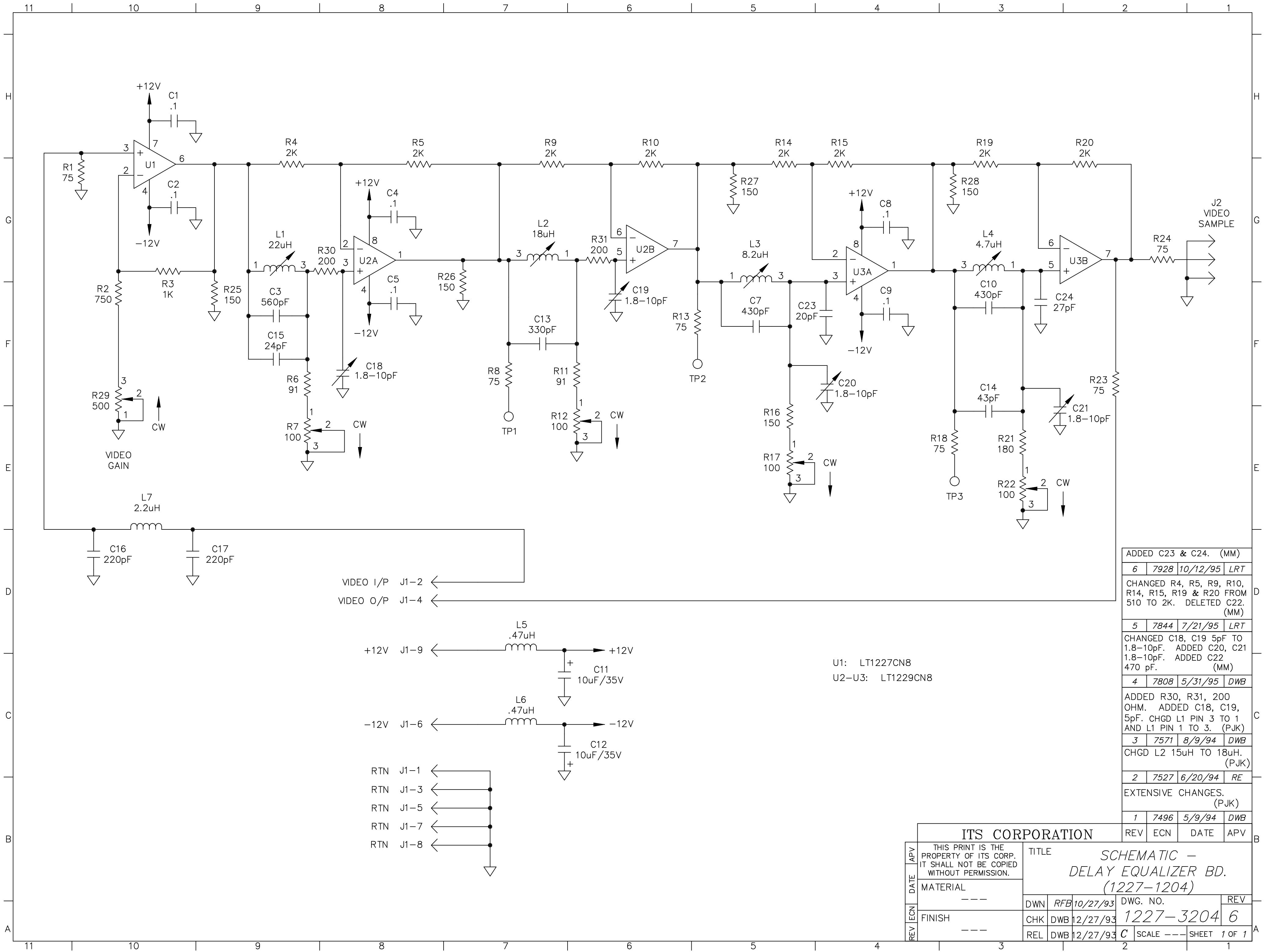
- > J3-8 RTN
- > J3-6 N.C.
- - - -> J3-5 KEY

- < J1-1 N.C.
- - - -< J1-2 KEY
- < J1-3 +12V
- < J1-4 RTN
- < J1-5 N.C.

VOLTAGE AT J1-3 WAS +26V. (SAK)			
AO	20110553	11/19/02	LRT
REV	ECO	DATE	APV

	THIS PRINT IS THE PROPERTY OF AXCERA, IT SHALL NOT BE COPIED WITHOUT PERMISSION.		TITLE SCHEMATIC – OVERDRIVE PROTECTION BD. (1198-1601)					
	MATERIAL ---		DWN	SJM	3/4/93	DWG. NO. 1198-3601		REV A0
	FINISH ---		CHK	DWB	3/4/93	C		SCALE ---
			REL	DWB	3/4/93	SHEET 1 OF 1		

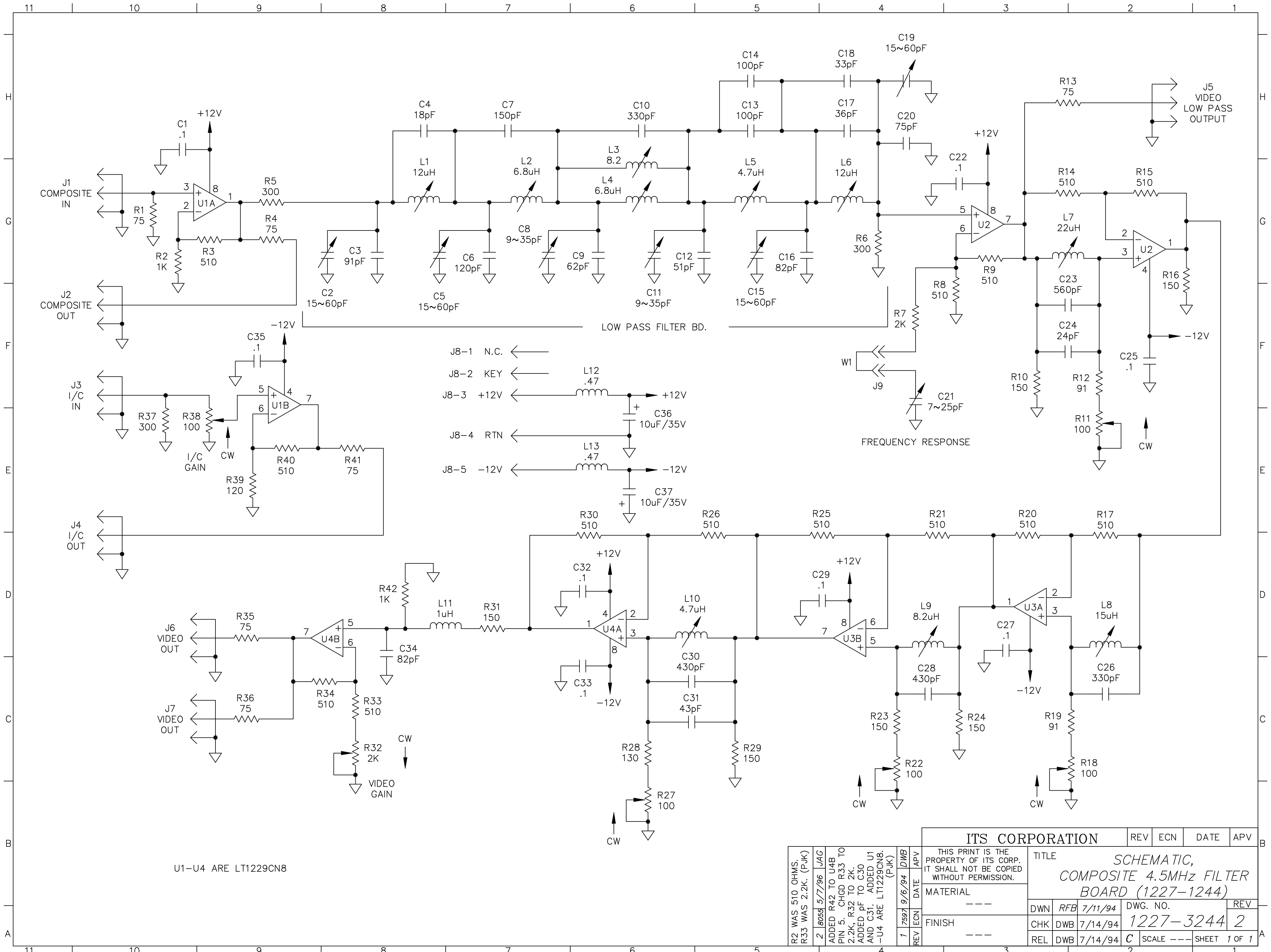




ADDED C23 & C24. (MM)			
6	7928	10/12/95	LRT
CHANGED R4, R5, R9, R10, R14, R15, R19 & R20 FROM 510 TO 2K. DELETED C22. (MM)			
5	7844	7/21/95	LRT
CHANGED C18, C19 5pF TO 1.8-10pF. ADDED C20, C21 1.8-10pF. ADDED C22 470 pF. (MM)			
4	7808	5/31/95	DWB
ADDED R30, R31, 200 OHM. ADDED C18, C19, 5pF. CHGD L1 PIN 3 TO 1 AND L1 PIN 1 TO 3. (PJK)			
3	7571	8/9/94	DWB
CHGD L2 15uH TO 18uH. (PJK)			
2	7527	6/20/94	RE
EXTENSIVE CHANGES. (PJK)			
1	7496	5/9/94	DWB

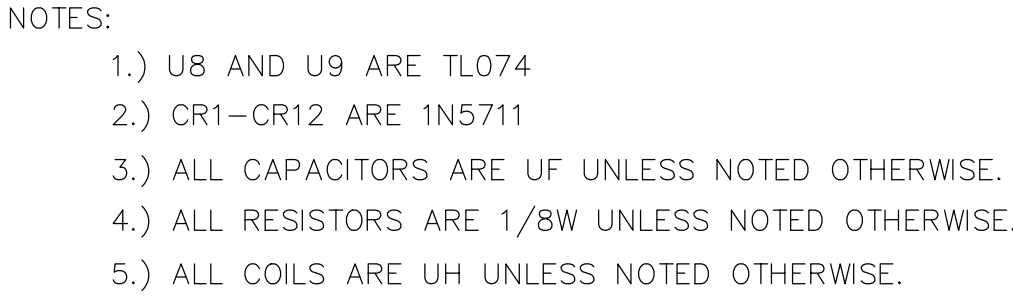
U1: LT1227CN8
U2-U3: LT1229CN8

ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE SCHEMATIC - DELAY EQUALIZER BD. (1227-1204)			
MATERIAL ---				DWN	RFB	10/27/93	REV
FINISH ---				CHK	DWB	12/27/93	1227-3204
				REL	DWB	12/27/93	6
				DWG. NO.		SHEET 1 OF 1	



U1-U4 ARE LT1229CN8

R2 WAS 510 OHMS. R33 WAS 2.2K. (PJK)				ITS CORPORATION				REV	ECN	DATE	APV	
2	8055	5/7/96	JAG	ADDED R42 TO U4B PIN 5. CHGD R33 TO 2.2K, R32 TO 2K. ADDED pF TO C30 AND C31. ADDED U1 -U4 ARE LT1229CN8. (PJK)				TITLE <i>SCHEMATIC, COMPOSITE 4.5MHz FILTER BOARD (1227-1244)</i>				
1	7597	9/6/94	DWB	THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				MATERIAL ---				
REV	ECN	DATE	APV	FINISH ---				DWN	RFB	7/11/94	DWG. NO.	REV
								CHK	DWB	7/14/94	1227-3244	2
								REL	DWB	7/14/94	C	SCALE --- SHEET 1 OF 1

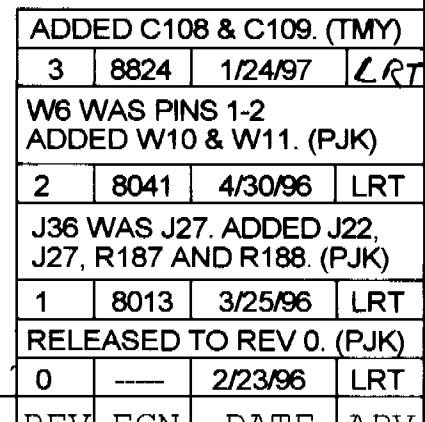


CHANGED R1, R10, R18, R26, R38, R41 AND R44 FROM 100 TO 120. (MM)			
5	8028	4/5/96	LRT
REV	ECO	DATE	APV

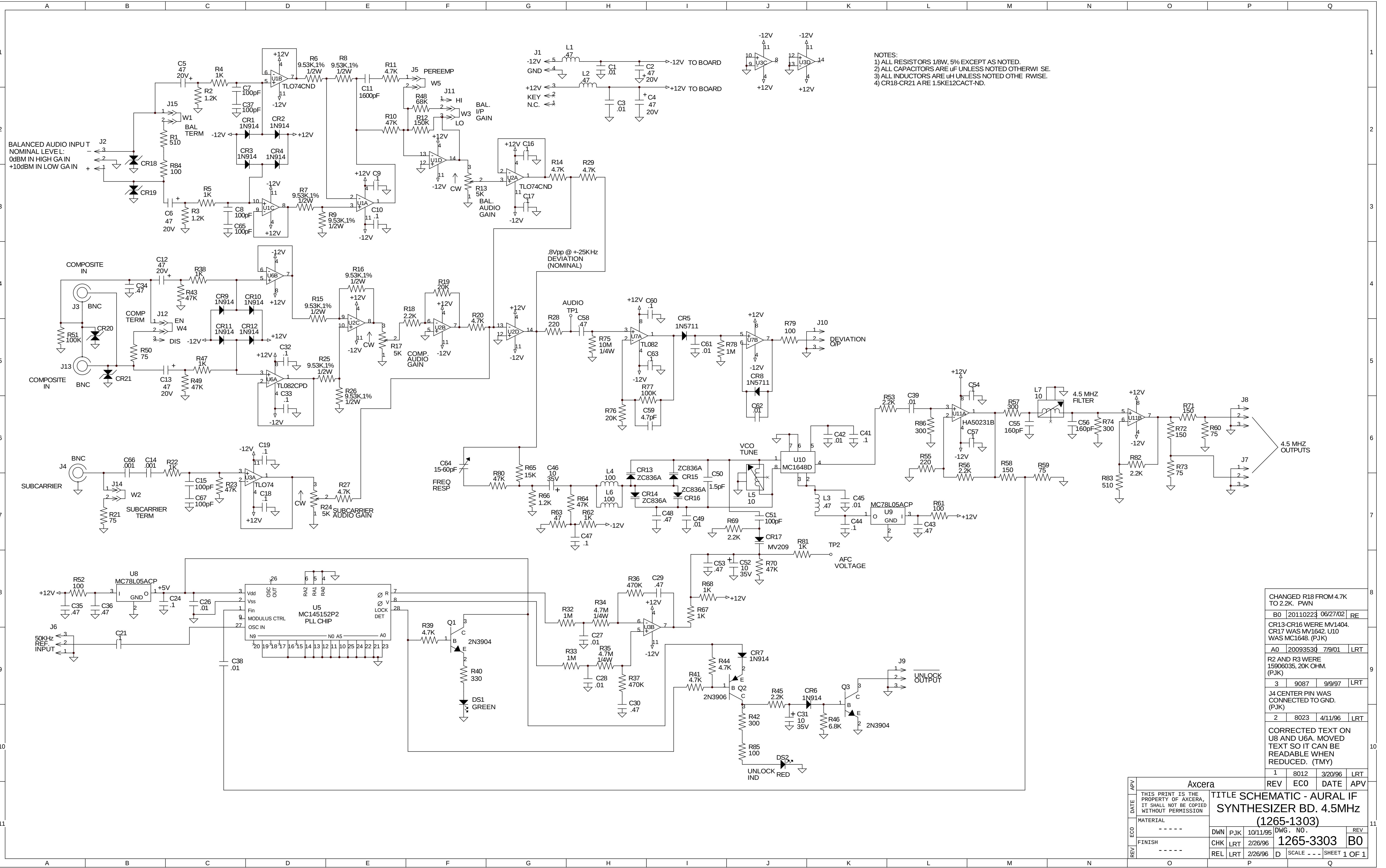
TITLE	SCHEMATIC - IF PHASE CORRECTOR BD. (1227-1250)		
-------	--	--	--

DWN	RFB	10/4/94	DWG. NO.		REV
CHK	DWB	10/31/94	1227-3250		A0
REL	DWB	10/31/94	D	SCALE - -	SHEET 1 OF 1





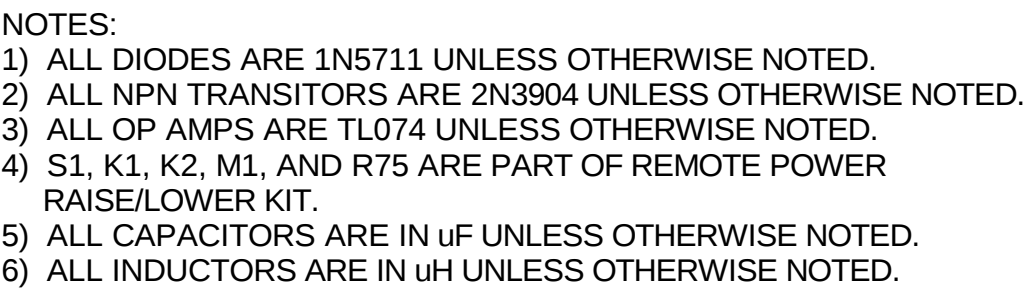
ITS CORPORATION										REV		ECN		DATE		APV								
REV	DATE	MATERIAL	DWN	PJK	11/1/95	DWG. NO.	REV	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
REV	DATE	FINISH	CHK	LRT	2/23/96	1265-3302	3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
REV	DATE	REL	LRT	2/23/96	D	SCALE	SHEET	1 OF 1	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

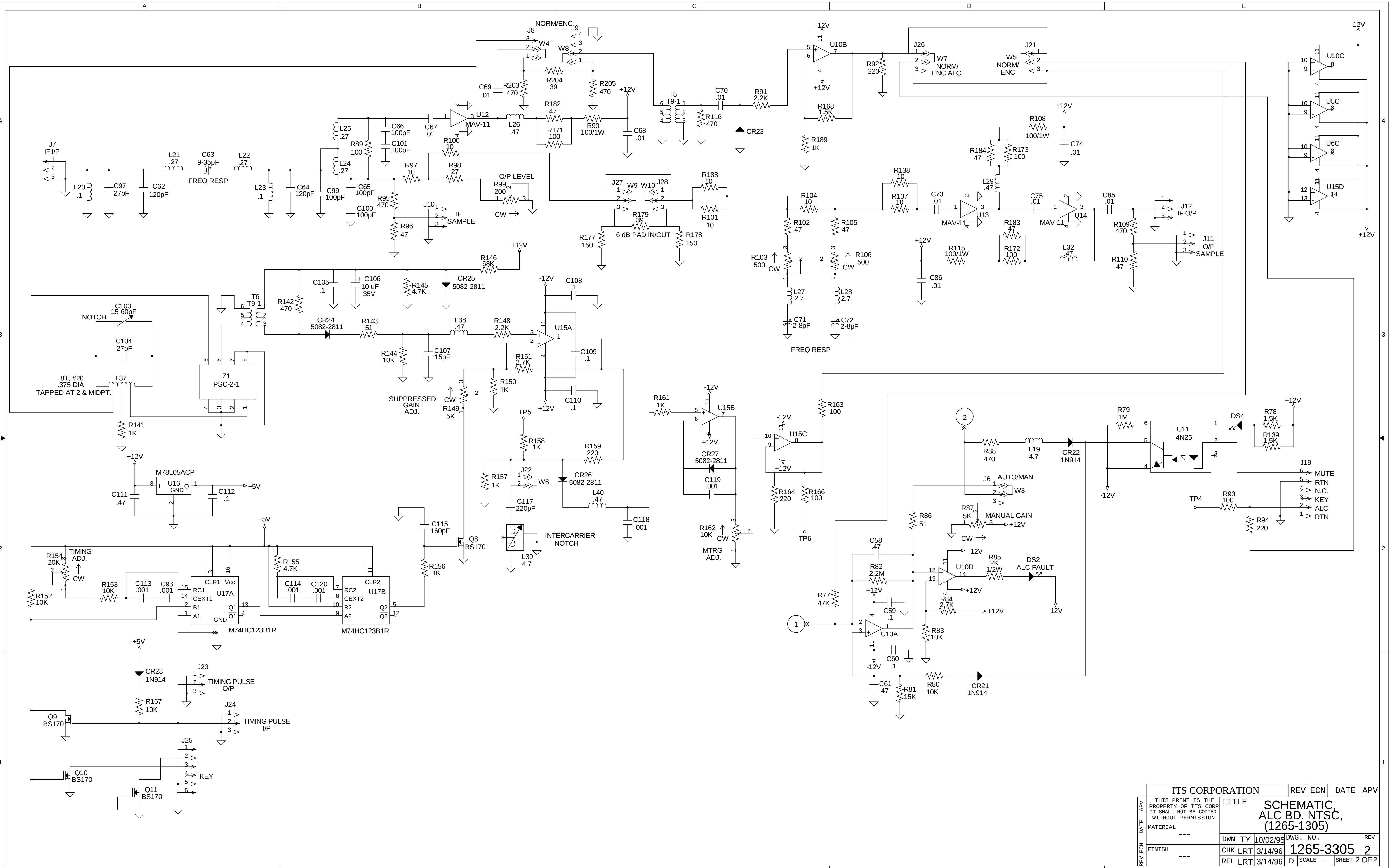


NOTES:
1) ALL RESISTORS 1/8W, 5% EXCEPT AS NOTED.
2) ALL CAPACITORS ARE uF UNLESS NOTED OTHERWISE.
3) ALL INDUCTORS ARE uH UNLESS NOTED OTHERWISE.
4) CR18-CR21 ARE 1.5KE12CACT-ND.

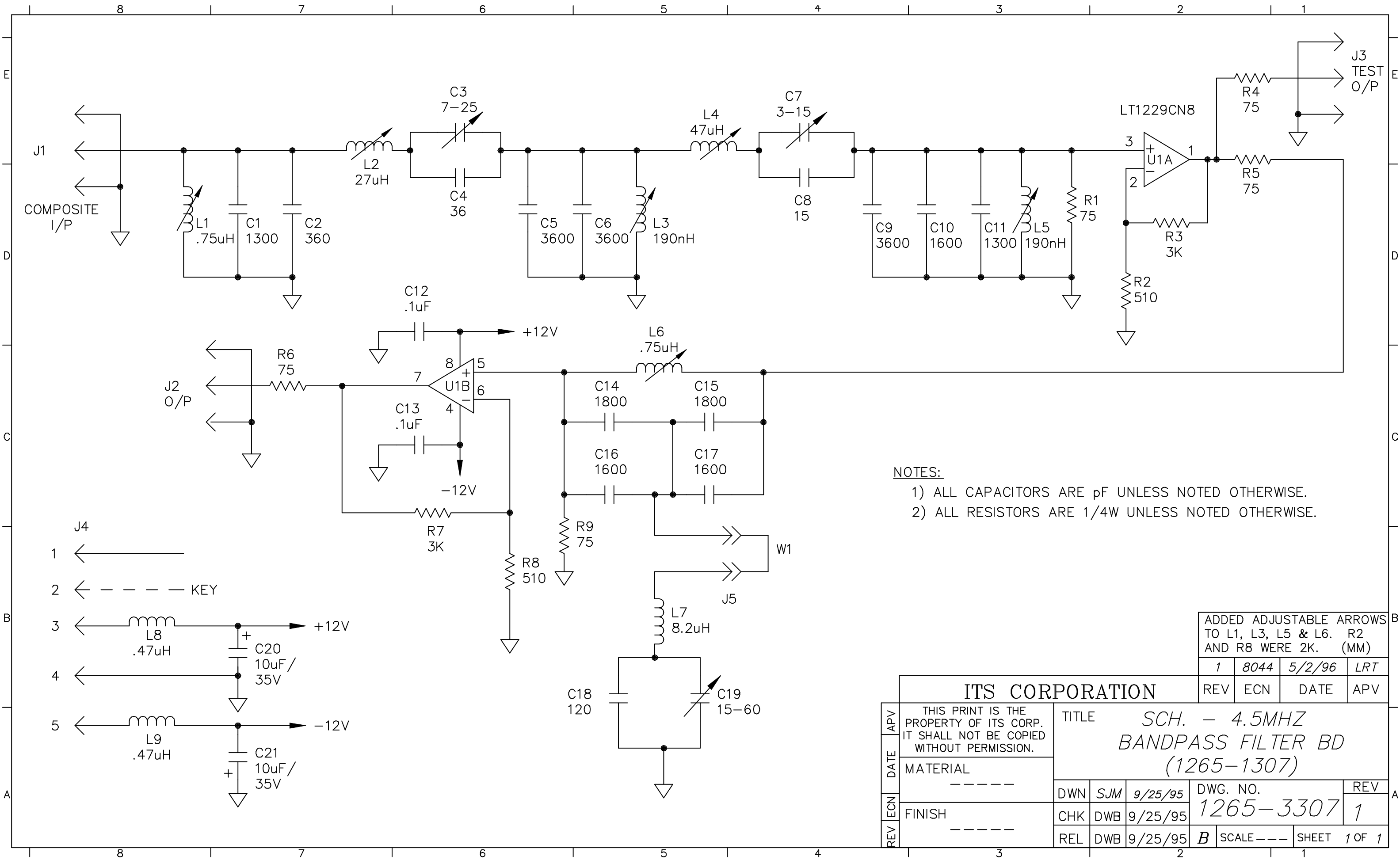
CHANGED R18 FROM 4.7K TO 2.2K. PWN			
B0	20110223	06/27/02	RE
CR13-CR16 WERE MV1404. CR17 WAS MV1642. U10 WAS MC1648. (PJK)			
A0	20093530	7/9/01	LRT
R2 AND R3 WERE 15906035, 20K OHM. (PJK)			
3	9087	9/9/97	LRT
J4 CENTER PIN WAS CONNECTED TO GND. (PJK)			
2	8023	4/11/96	LRT
CORRECTED TEXT ON U8 AND U6A. MOVED TEXT SO IT CAN BE READABLE WHEN REDUCED. (TMY)			

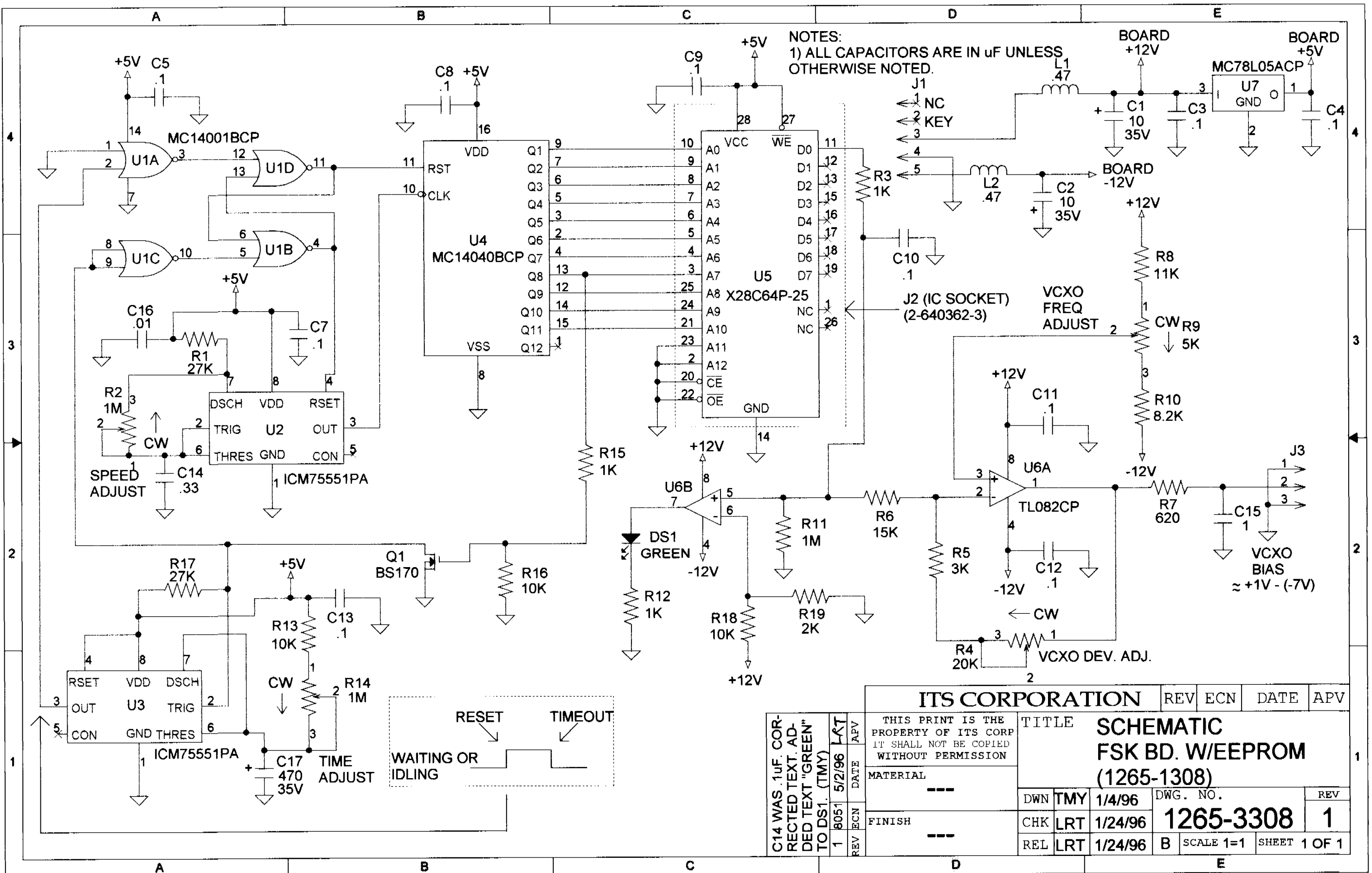
APV	Axcera			REV	ECO	DATE	APV
DATE	THIS PRINT IS THE PROPERTY OF AXCERA, IT SHALL NOT BE COPIED WITHOUT PERMISSION			TITLE SCHEMATIC - AURAL IF SYNTHESIZER BD. 4.5MHZ (1265-1303)			
ECO	MATERIAL			DWN	PJK	10/11/95	DWG. NO.
REV	FINISH			CHK	LRT	2/26/96	1265-3303
				REL	LRT	2/26/96	D
				SCALE	---	SHEET	1 OF 1

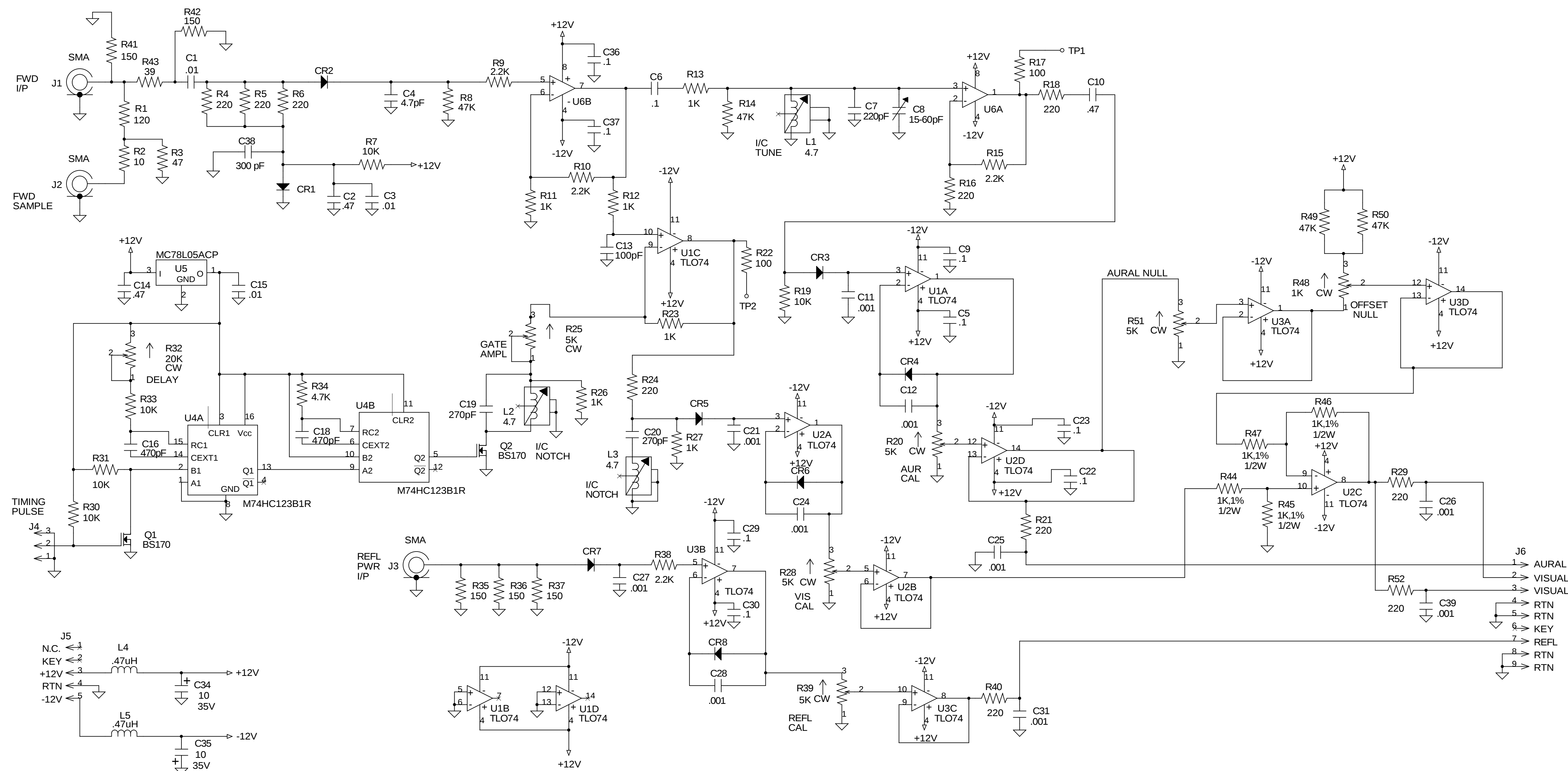




ITS CORPORATION				REV	ECN	DATE	APV
APV	THIS PRINT IS THE PROPERTY OF ITS CORP IT SHALL NOT BE COPIED WITHOUT PERMISSION			TITLE			
DATE	MATERIAL			SCHEMATIC, ALC BD. NTSC, (1265-1305)			
REV	ECN	FINISH	---	DWN	TY	10/02/95	DWG. NO.
---	---	---	---	CHK	LRT	3/14/96	1265-3305
---	---	---	---	REL	LRT	3/14/96	2
				D	SCALE	---	SHEET 2 OF 2





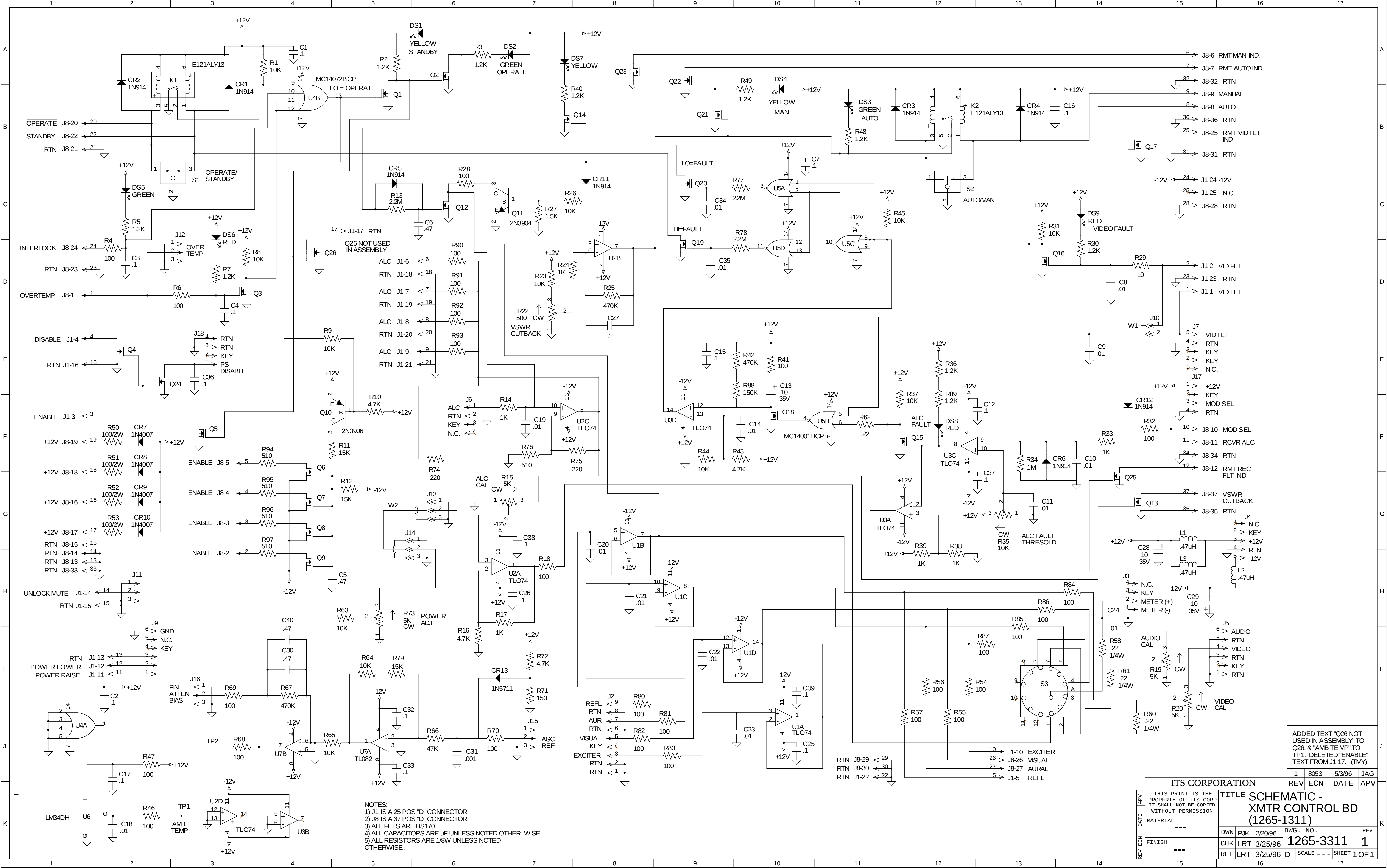


NOTES:

- 1) ALL RESISTORS ARE 1/8 WATT UNLESS NOTED OTHERWISE.
- 2) ALL CAPACITORS ARE μ F UNLESS NOTED OTHERWISE.
- 3) ALL INDUCTORS ARE μ H UNLESS NOTED OTHERWISE.
- 4) ALL DIODES ARE 5082-2811 UNLESS NOTED OTHERWISE.
- 5) ALL TRANSISTORS ARE BS170 UNLESS NOTED OTHERWISE.
- 6) U6 IS HA50231B OR LT12 29C58.

ADDED R52 AND C39. (PJK)			
A0	20092325	5/31/01	LRT
R8 WAS 4.7K. (TMY)			
5	8470	9/30/96	LRT
R7 WAS 100K. (PJK)			
4	8408	9/9/96	JAG
ADDED R41 - R51, C38, R138 WAS 10K, R19 WAS 2.2K, R7 WAS 10K. CHGD U1A TO U6B. CHGD U1D TO U1A. ADDED CIRCUIT TO U2B & U2D. ENLARGED TO "D" SIZE DWG. (TMY)			
3	8052	7/16/96	JAG
C7 WAS 160P. J6 WAS A 7 PIN CONNECTOR. (PJK)			
2	8026	4/2/96	LRT
ADDED U6, C36, C37. ADDED NOTE #6. U5 WAS M78L05A(CN. L5 WAS CONNECTED TO J5-1. U6A WAS U1A. 1A WAS U1B. U2D WAS U2A. U2A WAS U2B. U2B WAS U3D. (PJK)			

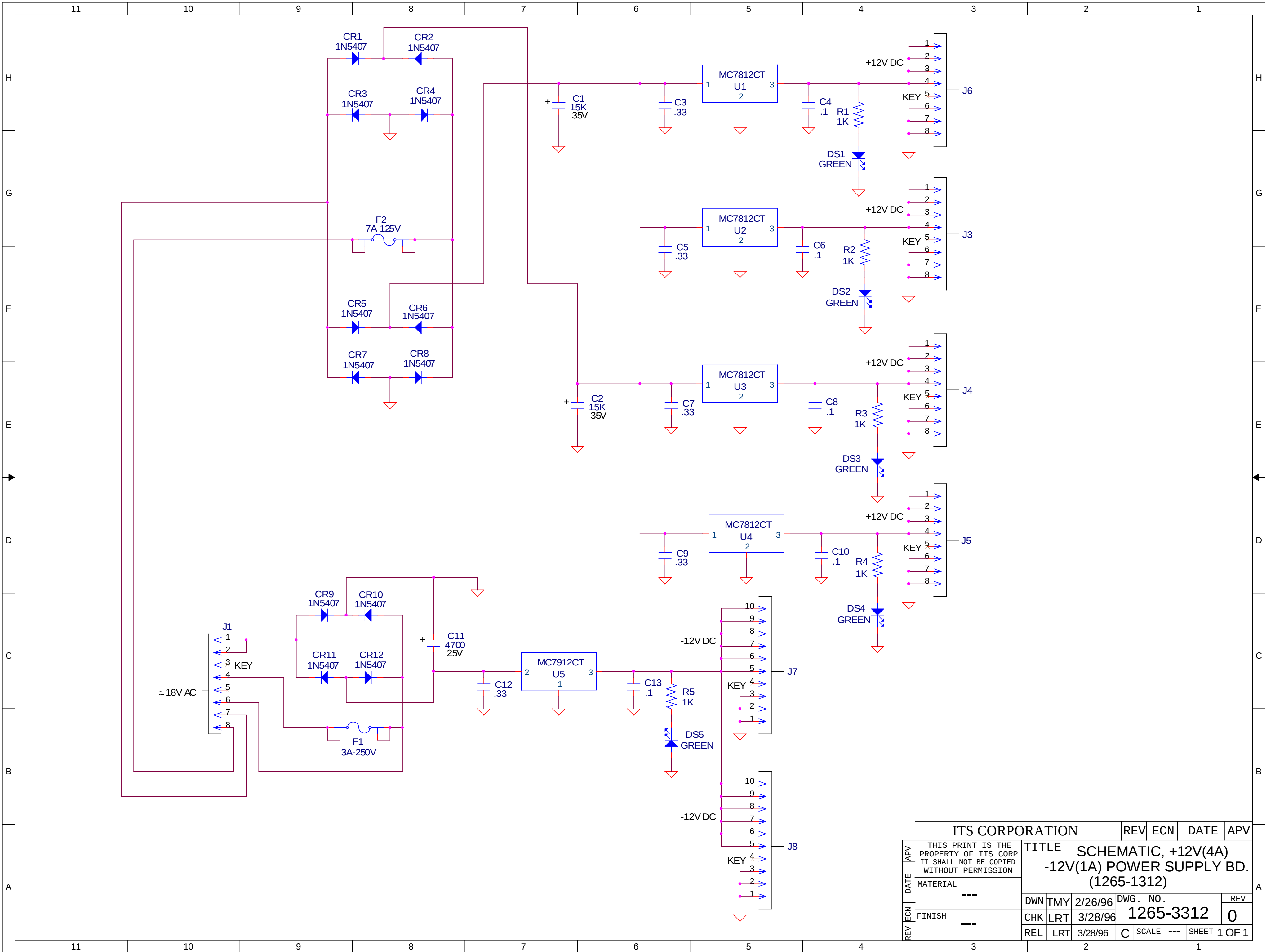
APV	ADC Telecommunications				REV	ECO	DATE	APV
DATE	THIS PRINT IS THE PROPERTY OF ADC. IT SHALL NOT BE COPIED WITHOUT PERMISSION				TITLE 91-00-00-50AC-61			
MATERIAL					SCH., VIS/AURAL MTRNG BD (1265-1309)			
ECO	-----	DWN	PJK	12/21/95	DWG. NO.		REV	
FINISH	-----	CHK	DWB	1/3/96	1265-3309		AO	
REV	-----	REL	DWB	1/3/96	D	SCALE ---	SHEET 1 OF 1	



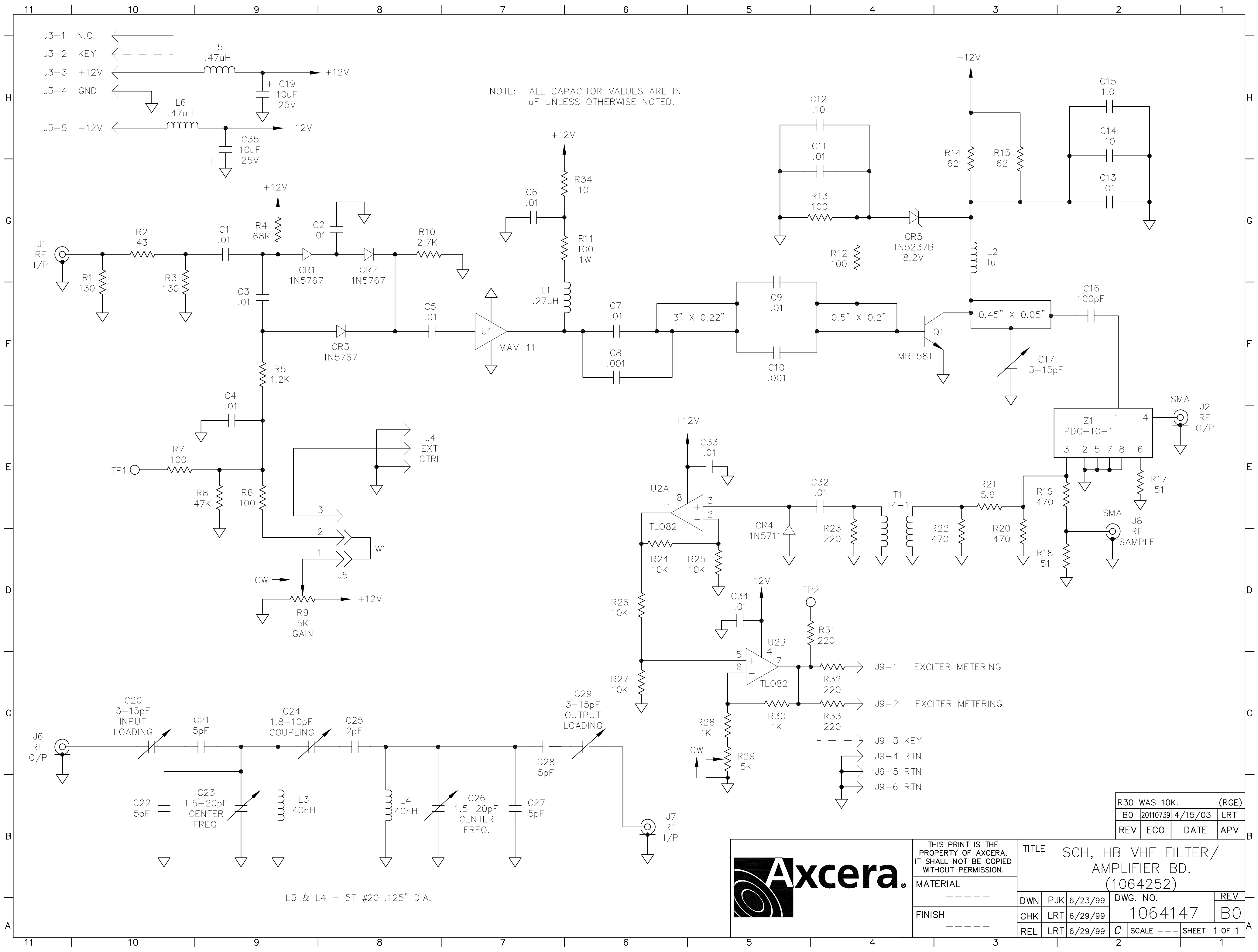
NOTES:
1) J1 IS A 25 POS "D" CONNECTOR.
2) J8 IS A 37 POS "D" CONNECTOR.
3) ALL FETS ARE BS170.
4) ALL CAPACITORS ARE uF UNLESS NOTED OTHER WISE.
5) ALL RESISTORS ARE 1/8W UNLESS NOTED OTHERWISE.

ADDED TEXT "Q26 NOT USED IN ASSEMBLY" TO Q26, & "AMB TEMP" TO TP1. DELETED "ENABLE" TEXT FROM J1-17. (TMY)

ITS CORPORATION			
REV	1	ECN	8053
DATE	5/3/96	DATE	JAG
APV		APV	
TITLE SCHEMATIC - XMTR CONTROL BD (1265-1311)			
DWN	PJK	2/20/96	DWG. NO.
CHK	LRT	3/25/96	1265-3311
REL	LRT	3/25/96	1
SCALE - - - SHEET 1 OF 1			



ITS CORPORATION				REV	ECN	DATE	APV
REV	DATE	THIS PRINT IS THE PROPERTY OF ITS CORP IT SHALL NOT BE COPIED WITHOUT PERMISSION				TITLE	
	APV	MATERIAL				SCHEMATIC, +12V(4A) -12V(1A) POWER SUPPLY BD. (1265-1312)	
	ECN	FINISH				DWG. NO.	
		DWN	TMY	2/26/96	DWG. NO.		REV
		CHK	LRT	3/28/96	1265-3312		0
		REL	LRT	3/28/96	C	SCALE ---	SHEET 1 OF 1



NOTE: ALL CAPACITOR VALUES ARE IN uF UNLESS OTHERWISE NOTED.

L3 & L4 = 5T #20 .125" DIA.



THIS PRINT IS THE PROPERTY OF AXCERA. IT SHALL NOT BE COPIED WITHOUT PERMISSION.

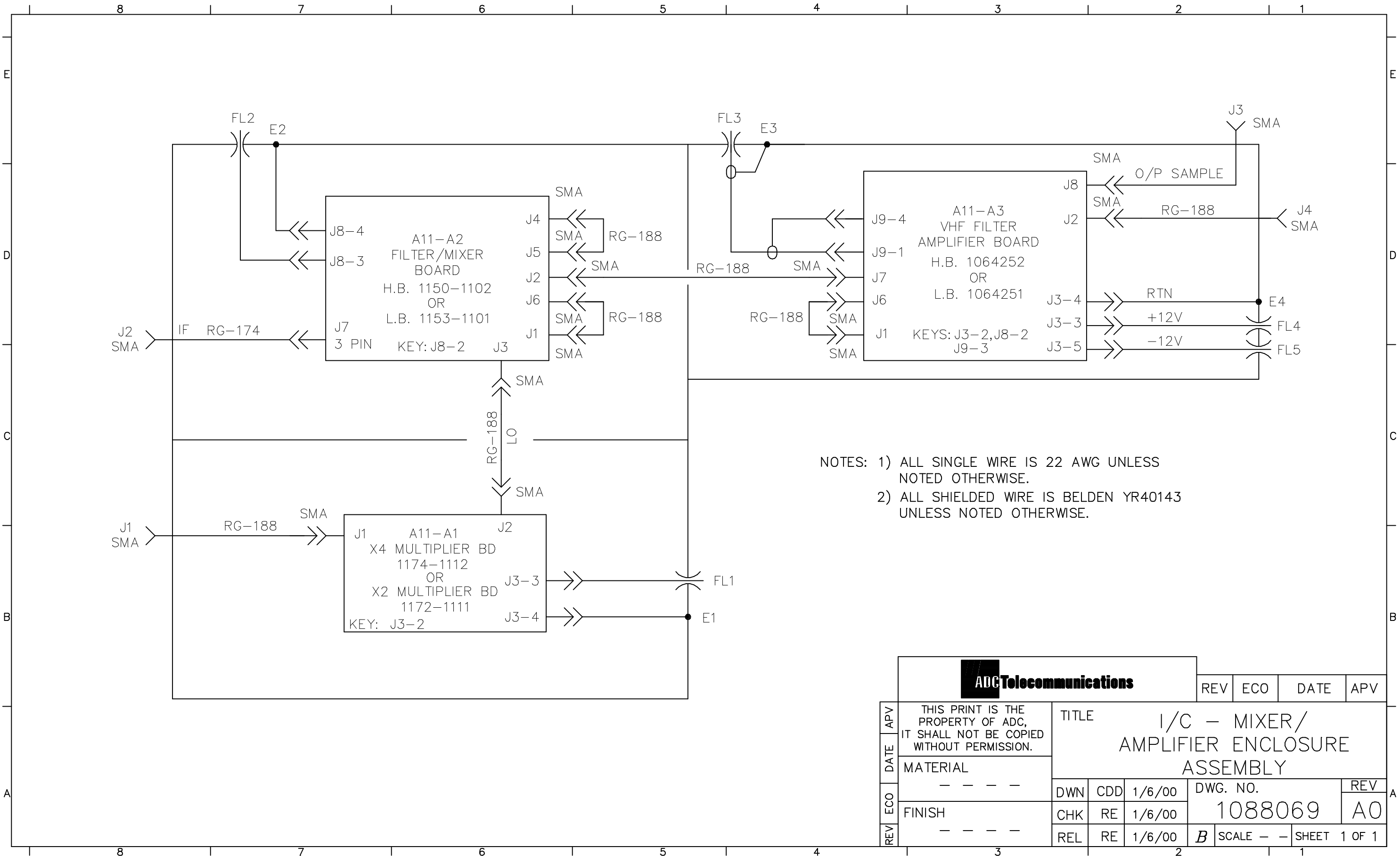
MATERIAL -----
FINISH -----

TITLE

SCH, HB VHF FILTER/
AMPLIFIER BD.
(1064252)

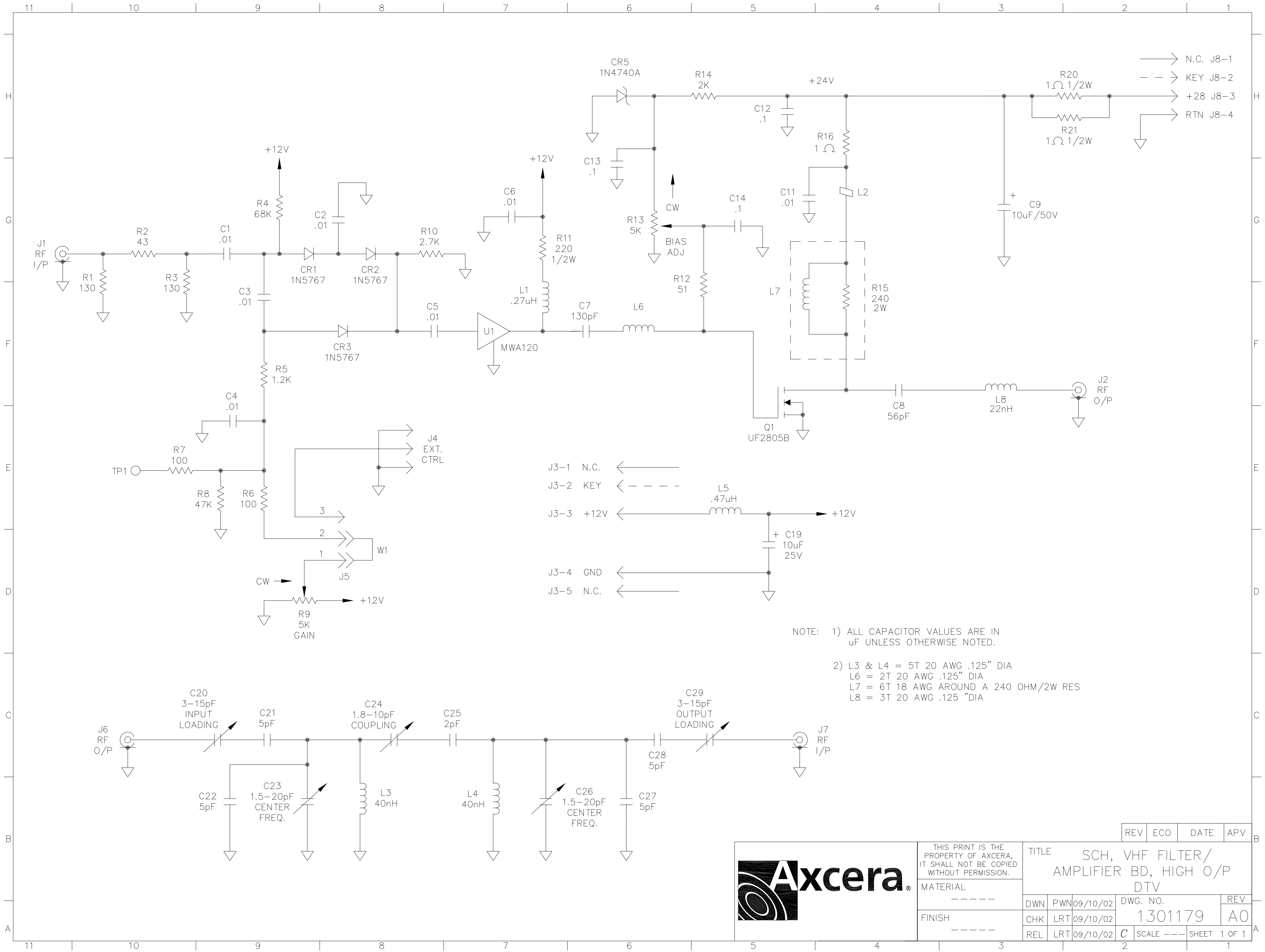
DWN	PJK	6/23/99	DWG. NO.	REV
CHK	LRT	6/29/99	1064147	B0
REL	LRT	6/29/99	C	SCALE --- SHEET 1 OF 1

R30 WAS 10K. (RGE)			
B0	20110739	4/15/03	LRT
REV	ECO	DATE	APV



NOTES: 1) ALL SINGLE WIRE IS 22 AWG UNLESS NOTED OTHERWISE.
2) ALL SHIELDED WIRE IS BELDEN YR40143 UNLESS NOTED OTHERWISE.

APV			DATE			ECO			REV		
THIS PRINT IS THE PROPERTY OF ADC, IT SHALL NOT BE COPIED WITHOUT PERMISSION.			MATERIAL			FINISH			TITLE		
---			---			---			I/C - MIXER/ AMPLIFIER ENCLOSURE ASSEMBLY		
---			---			---			DWN		
---			---			---			CDD		
---			---			---			1/6/00		
---			---			---			DWG. NO.		
---			---			---			1088069		
---			---			---			REV		
---			---			---			A0		
---			---			---			SCALE - -		
---			---			---			SHEET 1 OF 1		



NOTE: 1) ALL CAPACITOR VALUES ARE IN
uF UNLESS OTHERWISE NOTED.

2) L3 & L4 = 5T 20 AWG .125" DIA
L6 = 2T 20 AWG .125" DIA
L7 = 6T 18 AWG AROUND A 240 OHM/2W RES
L8 = 3T 20 AWG .125 "DIA



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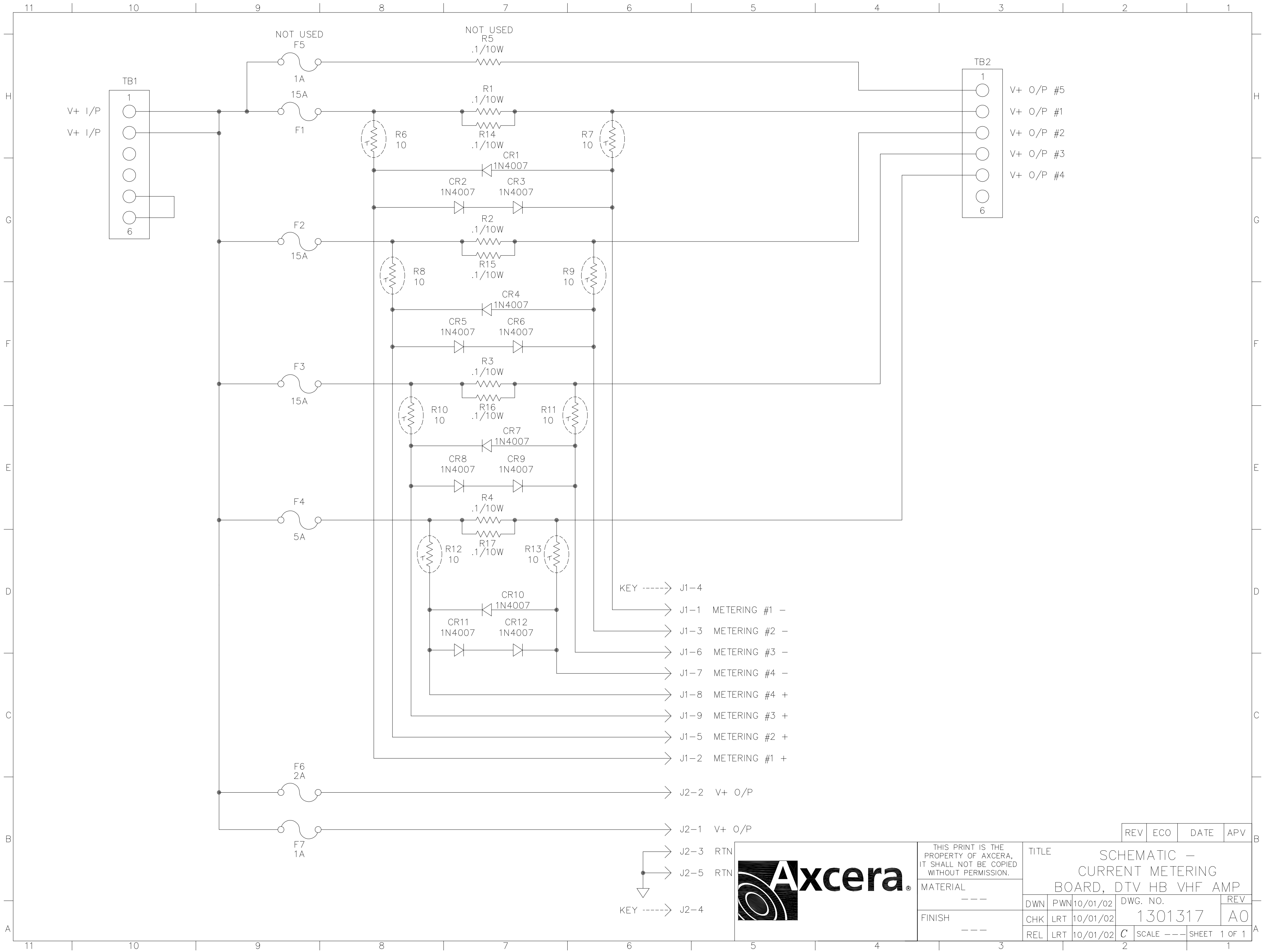
MATERIAL

FINISH

TITLE
SCH, VHF FILTER/
AMPLIFIER BD, HIGH O/P
DTV

DWN	PWN	09/10/02	DWG. NO.	REV
CHK	LRT	09/10/02	1301179	AO
REL	LRT	09/10/02	SCALE ---	SHEET 1 OF 1

REV	ECO	DATE	APV
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MATERIAL ---		DWN	PWN	10/01/02	DWG. NO. 1301317		REV AO
FINISH ---		CHK	LRT	10/01/02	SCALE ---		SHEET 1 OF 1
		REL	LRT	10/01/02	C		