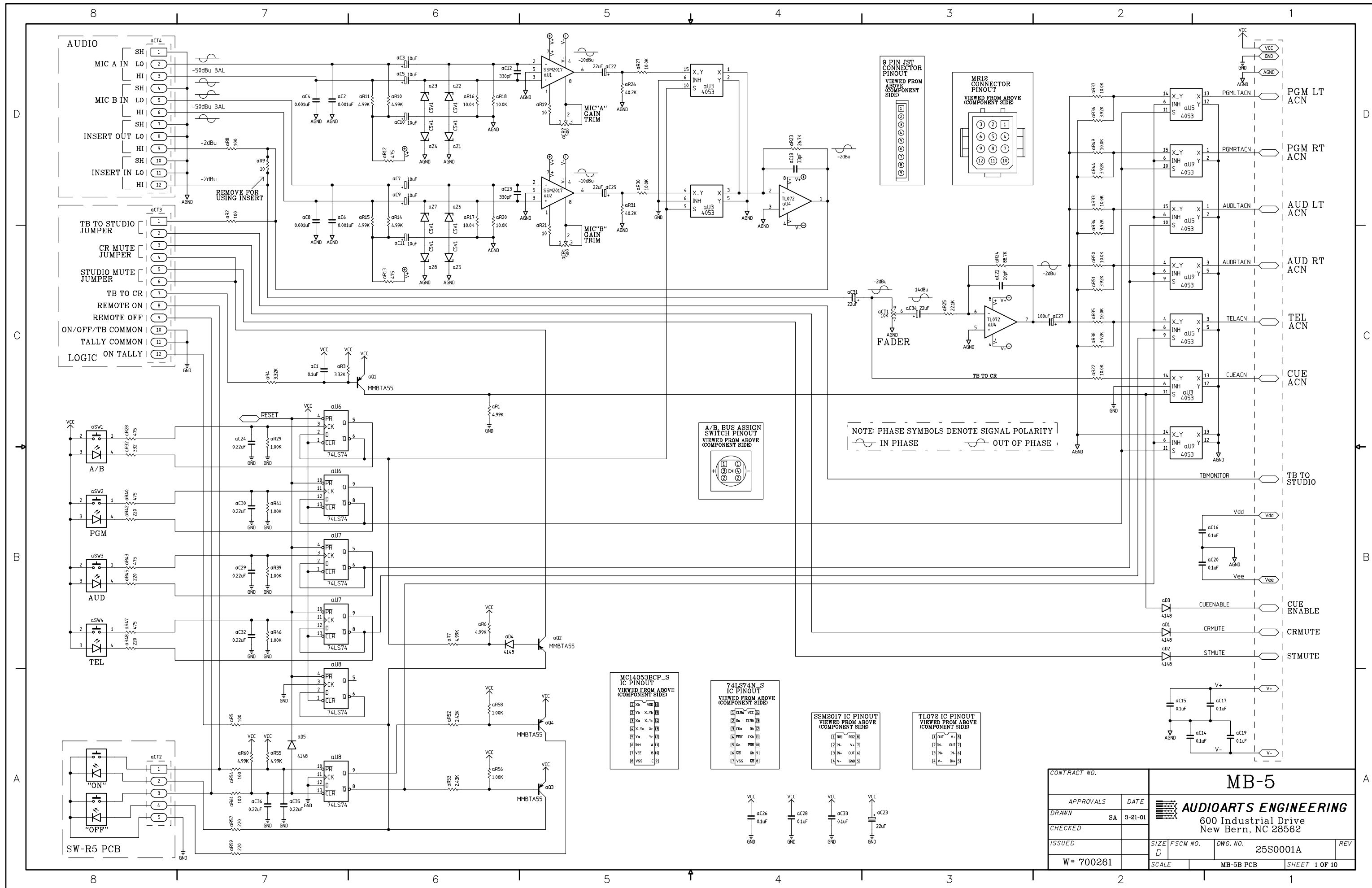
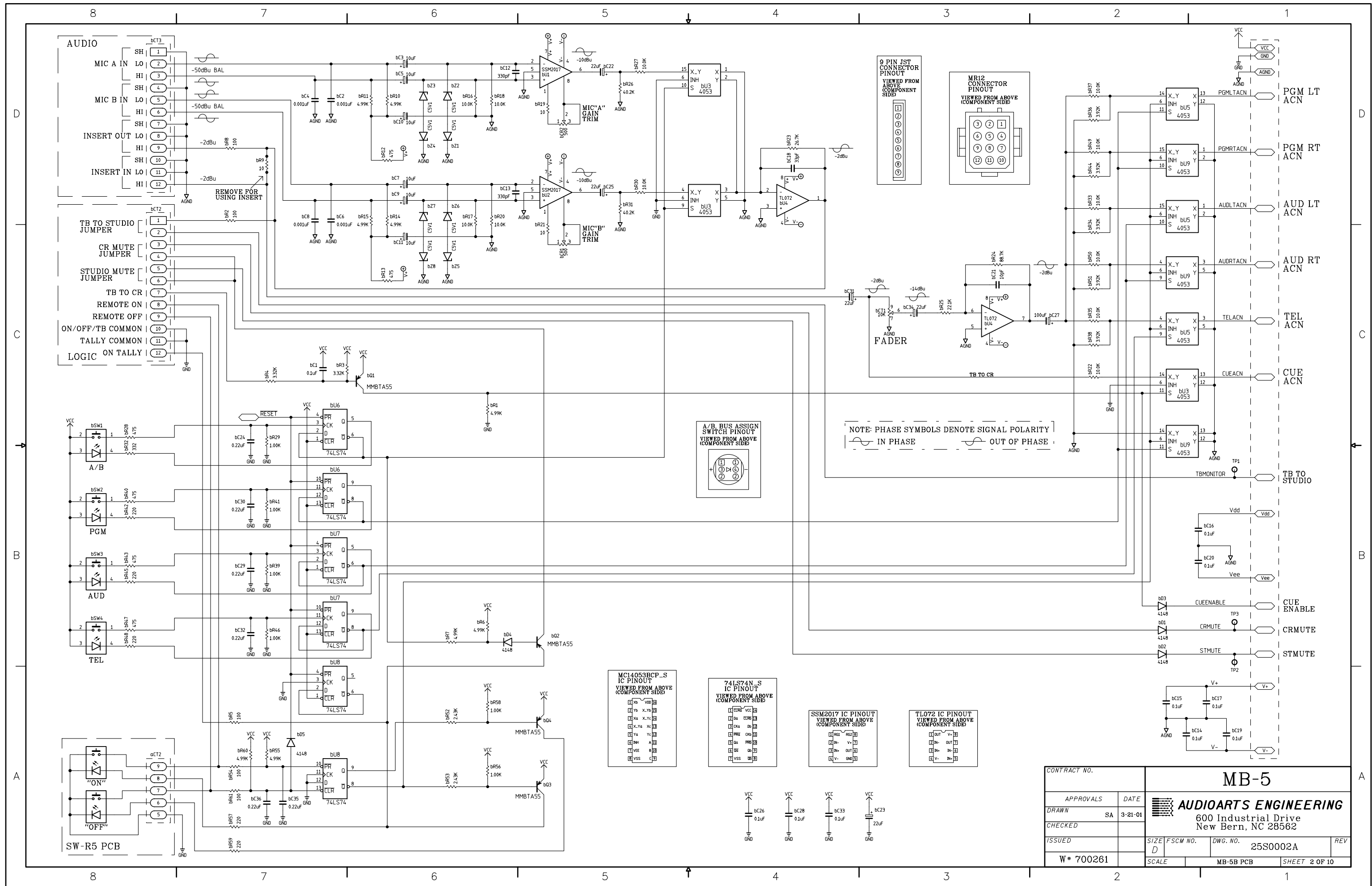

Technical Documents

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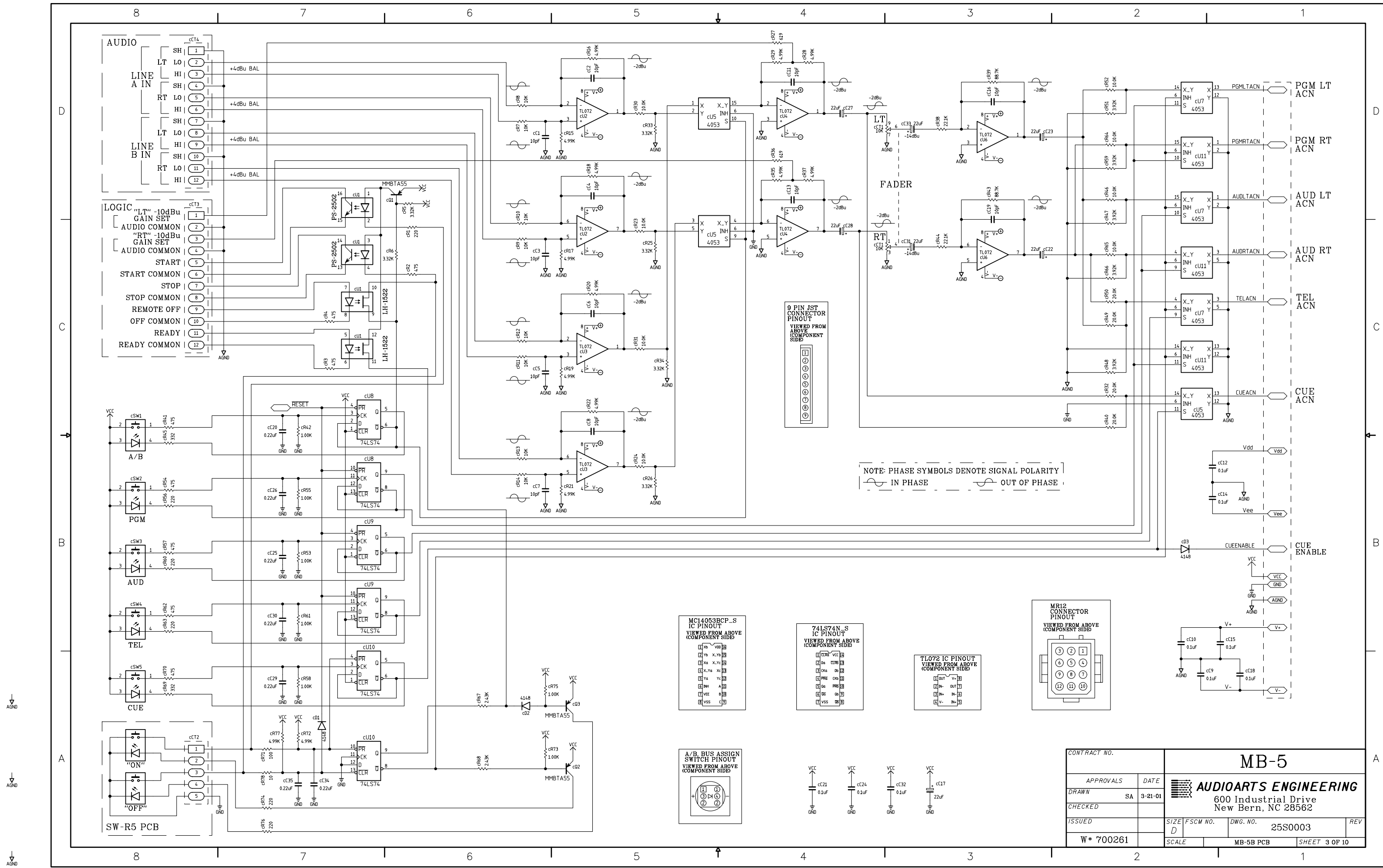


MB-5 Mother Board (Line Input Section "a")
Schematic - Sheet 1 of 10



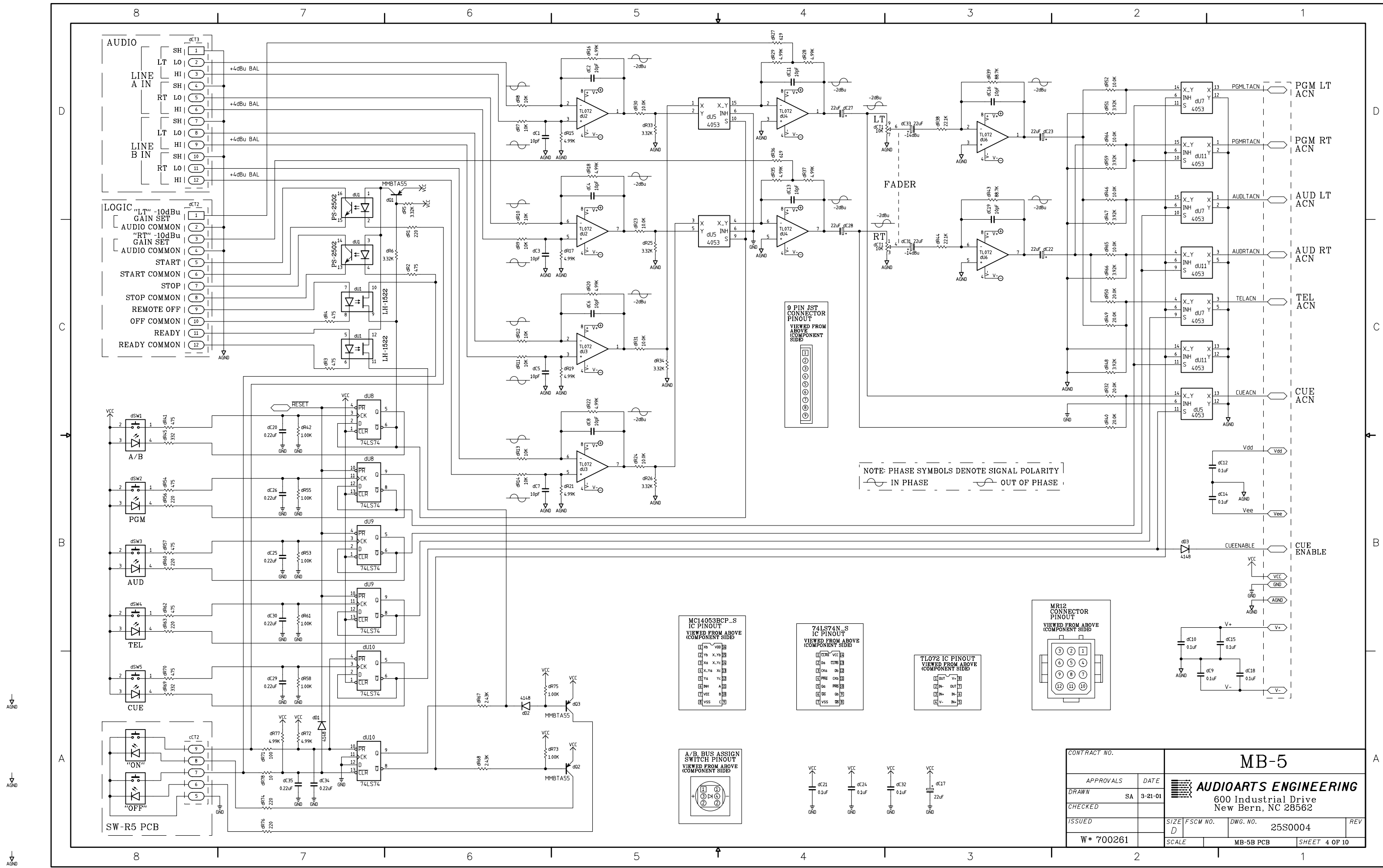
MB-5 Mother Board (Line Input Section "b")
Schematic - Sheet 2 of 10

CONTRACT NO.		MB-5	
APPROVALS	DATE	 AUDIOARTS ENGINEERING 600 Industrial Drive New Bern, NC 28562	
DRAWN	SA 3-21-01		
CHECKED		SIZE	FSCM NO.
ISSUED		D	DWG. NO. 25S0002A
W# 700261		SCALE	MB-5B PCB
			SHEET 2 OF 10

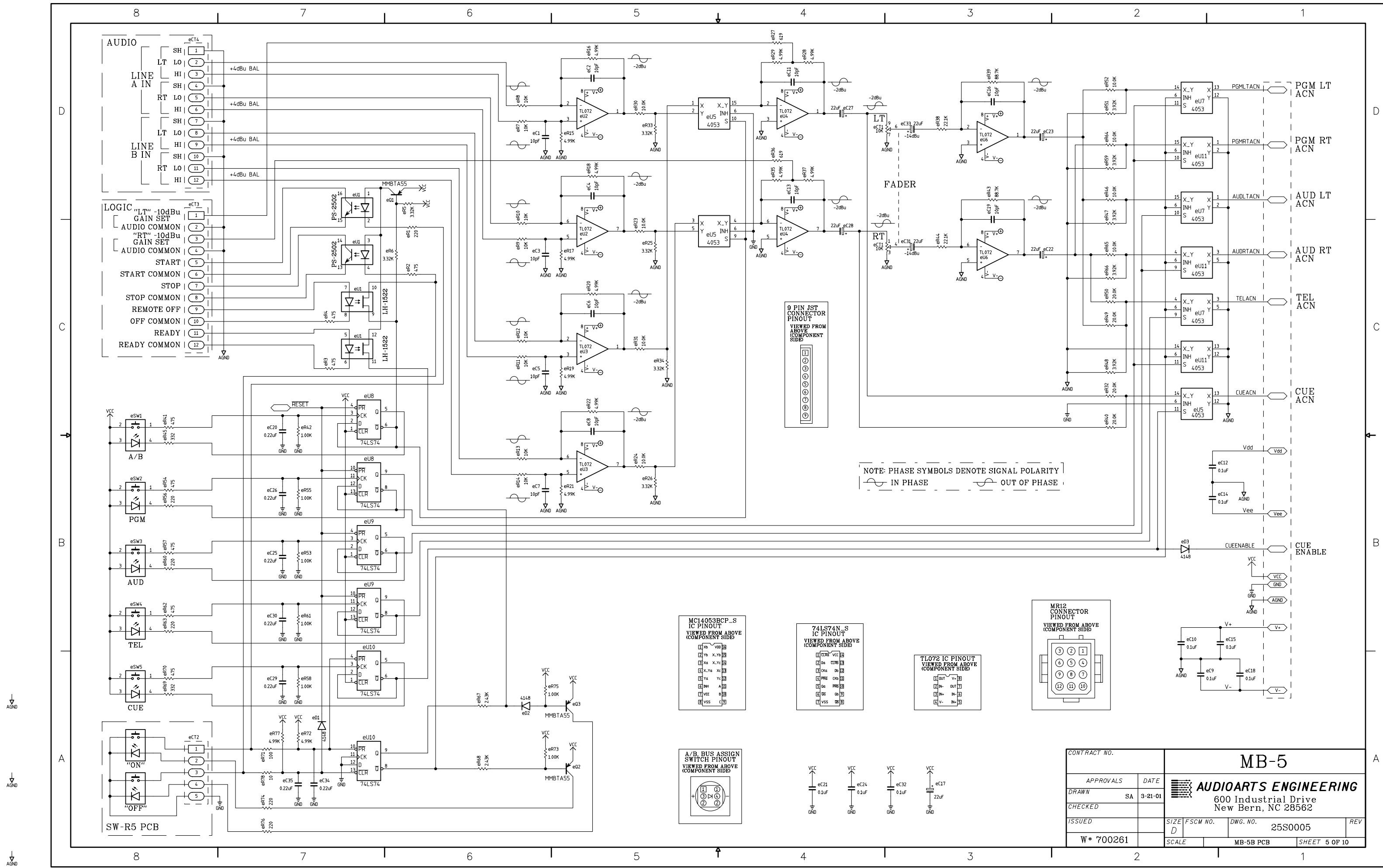


MB-5 Mother Board (Line Input Section "c")
Schematic - Sheet 3 of 10

CONTRACT NO.		MB-5	
APPROVALS	DATE	 AUDIOARTS ENGINEERING 600 Industrial Drive New Bern, NC 28562	
DRAWN	SA 3-21-01		
CHECKED		SIZE	FSCM NO.
ISSUED		D	DWG. NO. 25S0003
W# 700261		SCALE	MB-5B PCB
		SHEET 3 OF 10	

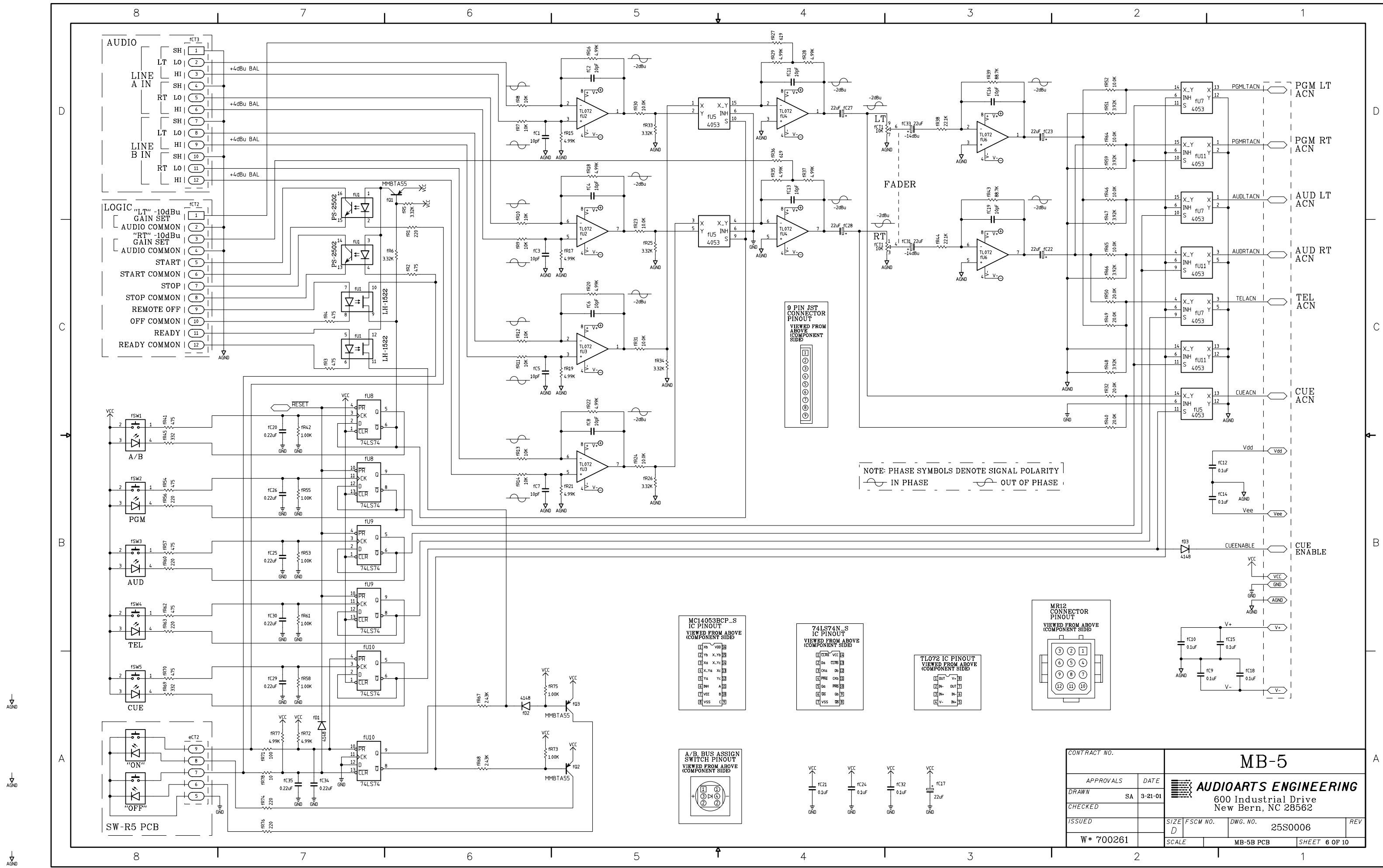


MB-5 Mother Board (Line Input Section "d")
Schematic - Sheet 4 of 10



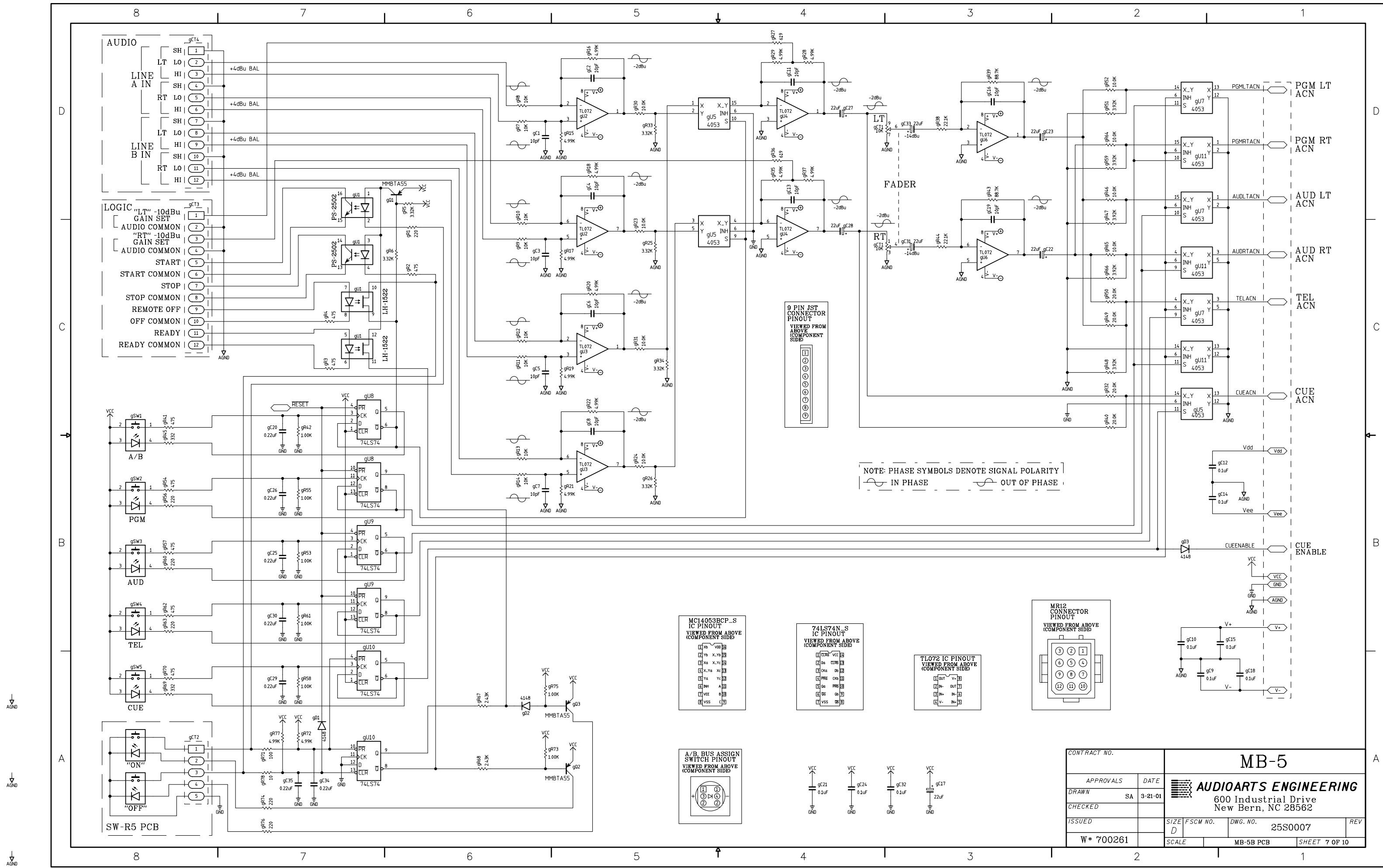
MB-5 Mother Board (Line Input Section "e")
Schematic - Sheet 5 of 10

CONTRACT NO.		MB-5	
APPROVALS	DATE	 AUDIOARTS ENGINEERING 600 Industrial Drive New Bern, NC 28562	
DRAWN	SA 3-21-01		
CHECKED		SIZE	FSCM NO.
ISSUED		D	DWG. NO. 25S0005
W# 700261		SCALE	MB-5B PCB
			SHEET 5 OF 10

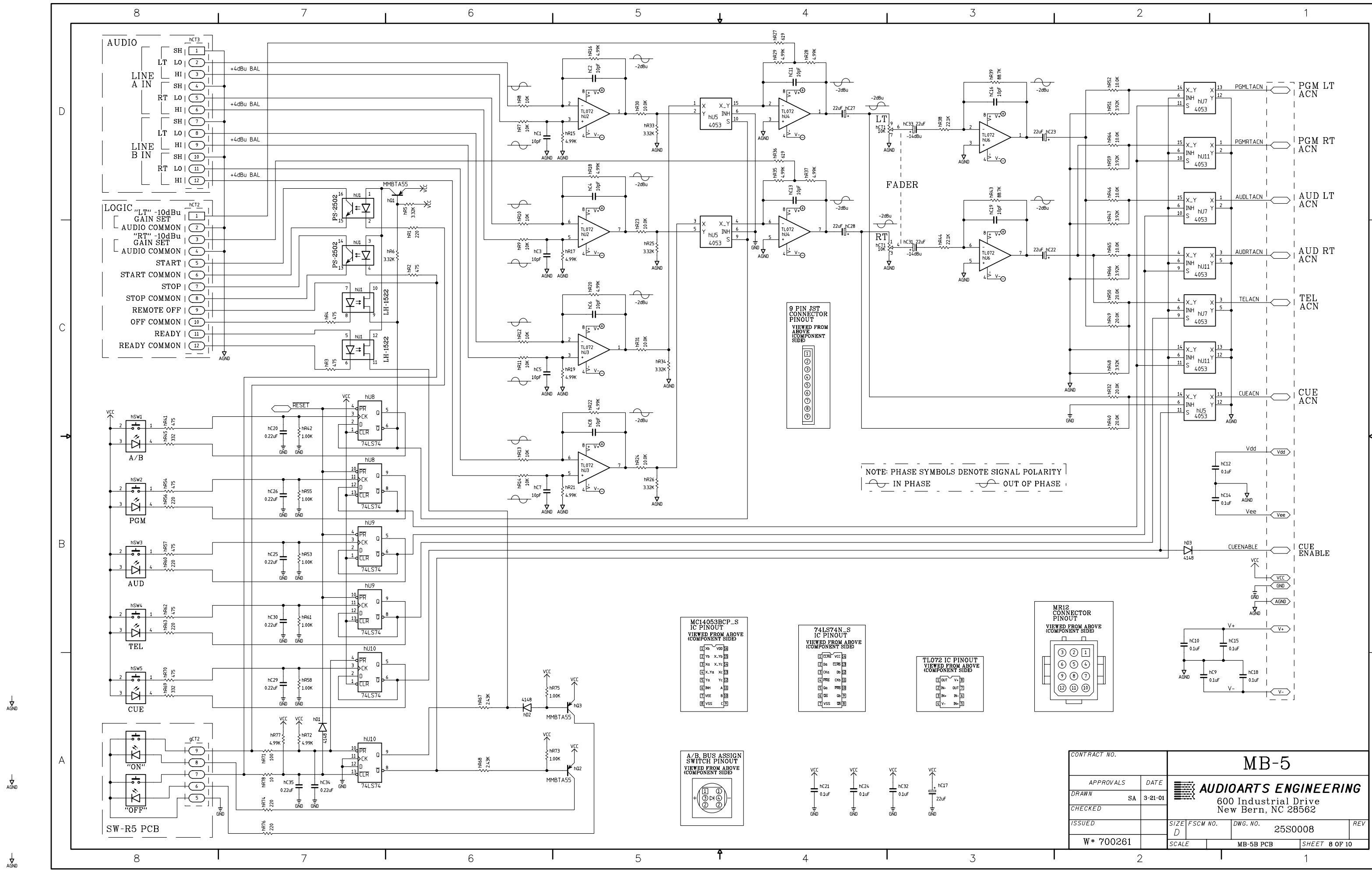


MB-5 Mother Board (Line Input Section "f")
Schematic - Sheet 6 of 10

CONTRACT NO.		MB-5	
APPROVALS	DATE	 AUDIOARTS ENGINEERING 600 Industrial Drive New Bern, NC 28562	
DRAWN	SA 3-21-01		
CHECKED		SIZE	FSCM NO.
ISSUED		D	DWG. NO. 25S0006
W# 700261		SCALE	MB-5B PCB
		SHEET 6 OF 10	

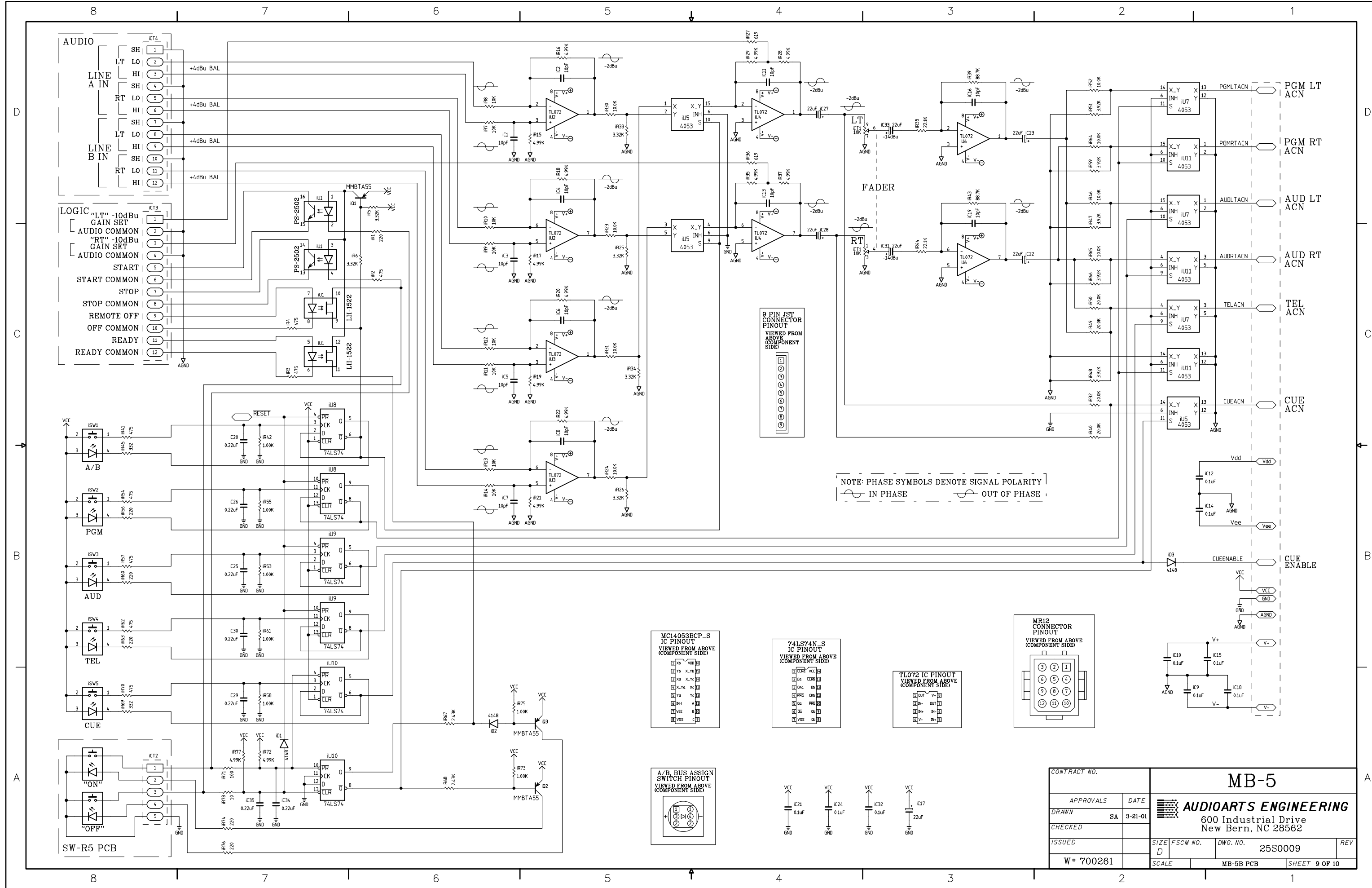


MB-5 Mother Board (Line Input Section "g")
Schematic - Sheet 7 of 10

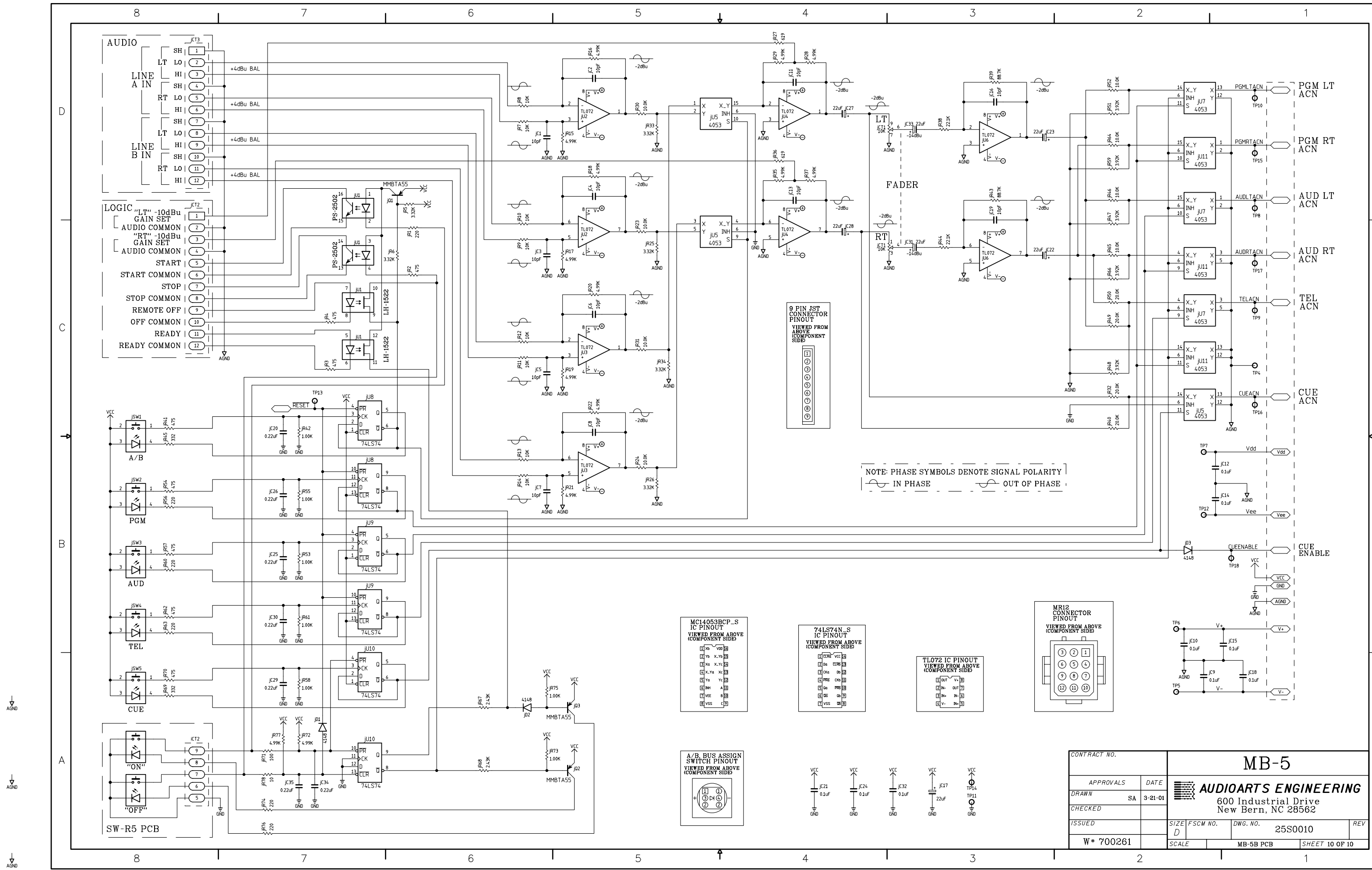


MB-5 Mother Board (Line Input Section "h")
Schematic - Sheet 8 of 10

CONTRACT NO.		MB-5	
APPROVALS	DATE	 AUDIOARTS ENGINEERING 600 Industrial Drive New Bern, NC 28562	
DRAWN	SA 3-21-01		
CHECKED		SIZE	FSCM NO.
ISSUED		D	DWG. NO. 25S0008
W# 700261		SCALE	MB-5B PCB
		SHEET 8 OF 10	

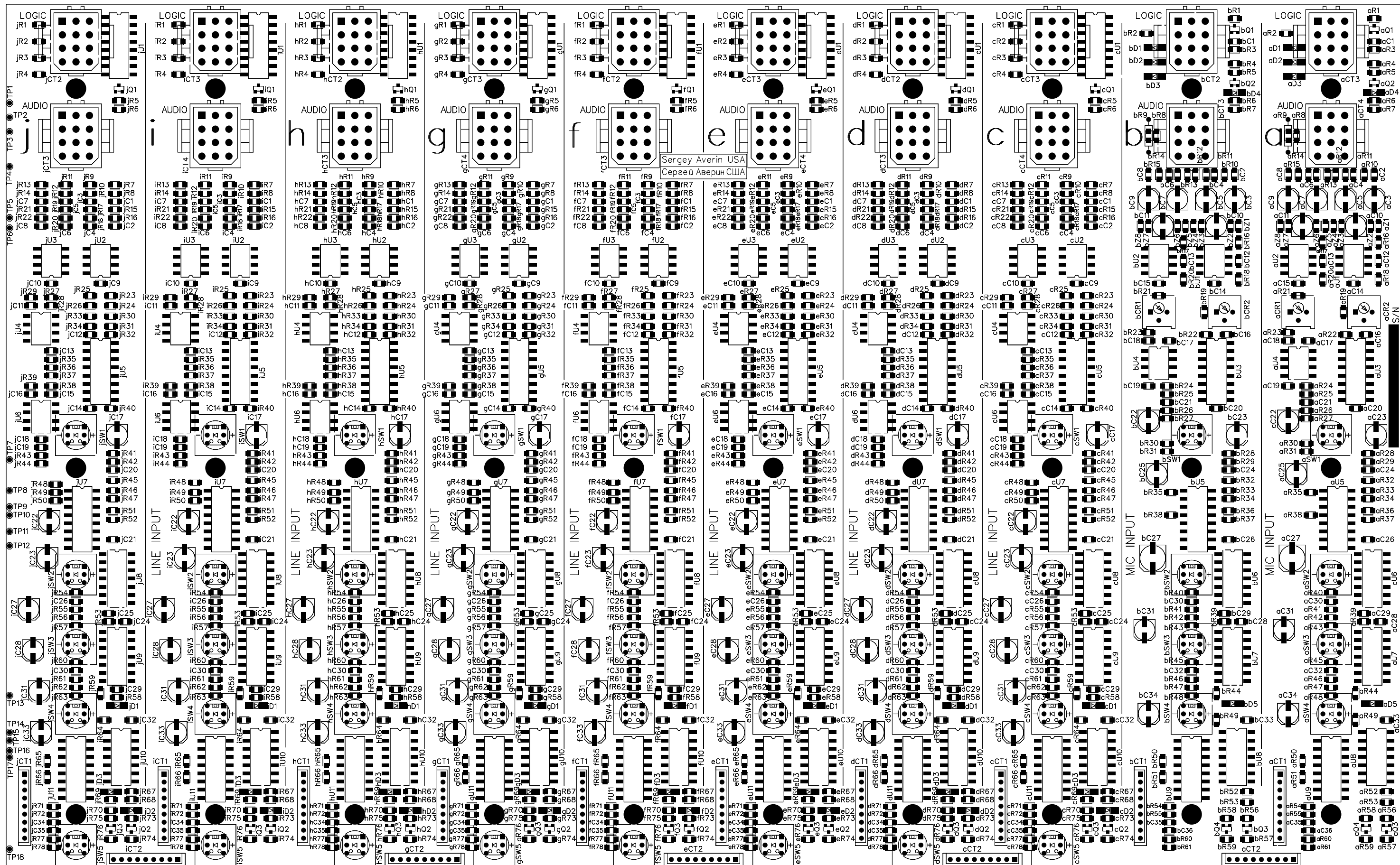


MB-5 Mother Board (Line Input Section "i")
Schematic - Sheet 9 of 10



MB-5 Mother Board (Line Input Section "j")
Schematic - Sheet 10 of 10

CONTRACT NO.		MB-5	
APPROVALS	DATE	 AUDIOARTS ENGINEERING 600 Industrial Drive New Bern, NC 28562	
DRAWN	SA 3-21-01		
CHECKED		SIZE	FSCM NO.
ISSUED		D	DWG. NO. 25S0010
W# 700261		SCALE	MB-5B PCB
		SHEET 10 OF 10	



W#	part name	description	# in each unit
220014	CONN_PC_MT_12_PIN	12 PIN PC MOUNT CONNECTOR	20
245001	SOCKET_SMT_JS8_PIN	8 PIN .3" DIP SMT SOCKET	38
245002	SOCKET_SMT_JS14_PIN	14 PIN .3" DIP SMT SOCKET	30
245003	SOCKET_SMT_JS16_PIN	16 PIN .3" DIP SMT SOCKET	38
250066	HEADER_9_PIN_JST	9 PIN .098" HEADER	15
300046	Q74LS74	74LS74	30
320003	Q2017_IC	2017 MIC PREAMP IC	4
320006	QTL072	TL072 DUAL BIFET OP-AMP	34
340020	QLH1522AB	LH1522AB DUAL FET OPTO COUPLER	8
340021	QPS2502-2	8 PIN DUAL OPTO COUPLER	8
345002	QMMBTA55_SMT	MMBTA55 PNP SMT TRANSISTOR	32
355002	QC5V1_SMT_ZENER_DI	5.1V SMT ZENER DIODE C5V1	16
355003	Q1N4148_SMT_DIODE	1N4148 FAST SWITCHING SMT DIODE	34
380003	Q14053BCP	14053BCP	30
405001	CP10UF_50V_SMT	CAPACITOR, 10 μ F 50V ELECTROLYTIC	12
405002	CP22UF_25V_SMT	CAPACITOR, 22 μ F 25V ELECTROLYTIC	66
405003	CP100UF_25V_SMT	CAPACITOR, 100 μ F 25V	2
415001	CP10P_CER_SMT	CAPACITOR, 10pF 100V CERAMIC SMT	98
415002	CP33P_CER_SMT	CAPACITOR, 33pF 100V CERAMIC SMT	2
415004	CP330P_CER_SMT	CAPACITOR, 330pF 100V CERAMIC	4
415005	CP.001UF_CER_SMT	CAPACITOR, .001 μ F 50V CERAMIC SMT	8
415007	CP.1UF_CER_SMT	CAPACITOR, .1 μ F 50V CERAMIC SMT	92
415009	CP.22UF__CER_SMT	CAPACITOR, .22 μ F 50V CERAMIC SMT	68
435002	RESISTOR_10 Ω _SMT_12	10 OHM 5% .25W MC1206 RESISTOR	14
435007	RESISTOR_100 Ω _SMT_1	100 OHM 5% .25W MC1206 RESISTOR	18
435009	RESISTOR_220 Ω _SMT_1	220 OHM 5% .25W MC1206 RESISTOR	58
435010	RESISTOR_332 Ω _SMT_1	332 OHM 1% .25W MC1206 RESISTOR	18
435011	RESISTOR_475 Ω _SMT_1	475 OHM 1% .25W MC1206 RESISTOR	76
435013	RESISTOR_619 Ω _SMT_1	619 OHM 1% .25W MC1206 RESISTOR	16

W#	part name	description	# in each unit
435015	RESISTOR_1.00K_SMT_	1.00 KOHM 1% .25W MC1206	68
435020	RESISTOR_2.43K_SMT_	2.43 KOHM 1% .25W MC1206	20
435021	RESISTOR_3.32K_SMT_	3.32 KOHM 1% .25W MC1206	52
435022	RESISTOR_3.92K_SMT_	3.92 KOHM 1% .25W MC1206	50
435023	RESISTOR_4.99K_SMT_	4.99 KOHM 1% .25W MC1206	130
435028	RESISTOR_10.0K_SMT_	10.0 KOHM 1% .25W MC1206	152
435034	RESISTOR_20.0K_SMT_	20.0 KOHM 1% .25W MC1206	32
435036	RESISTOR_22.1K_SMT_	22.1 KOHM 1% .25W MC1206	18
435037	RESISTOR_26.7K_SMT_	26.7 KOHM 1% .25W MC1206	2
435039	RESISTOR_40.2K_SMT_	40.2 KOHM 1% .25W MC1206	4
435043	RESISTOR_88.7K_SMT_	88.7 KOHM 1% .25W MC1206	18
500019	POT_TRIM_HOR_500Ω	500Ω TRIM POT	4
510106	SWITCH_R5_RED	SINGLE POLE MOMENTARY SWITCH	18
510107	SWITCH_R5_GRN	SINGLE POLE MOMENTARY SWITCH	30
510111	SWITCH_R5_MOUNT_FR	SINGLE POLE MOMENTARY SW	48
530094	BUTTON_R5_RED	LTM-LTR TYPE SWITCH DIFFUSER RED	10
530095	BUTTON_R5_GRN	LTM-LTR TYPE SWITCH DIFFUSER	30
530096	BUTTON_R5_YLW	LTM-LTR TYPE SWITCH DIFFUSER	8
700261	PCB_MB5	PRINTED CIRCUIT BOARD SMT	1