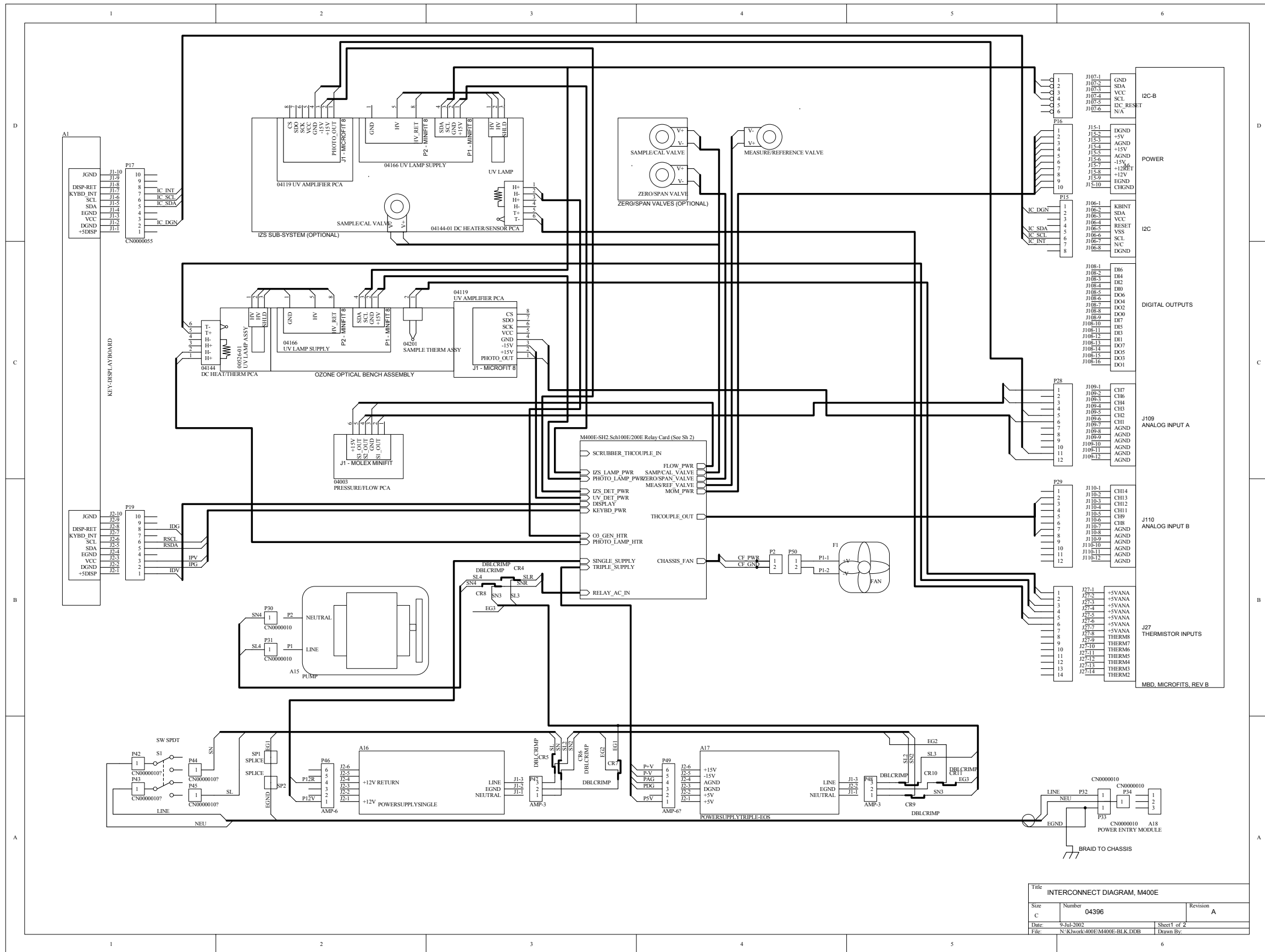
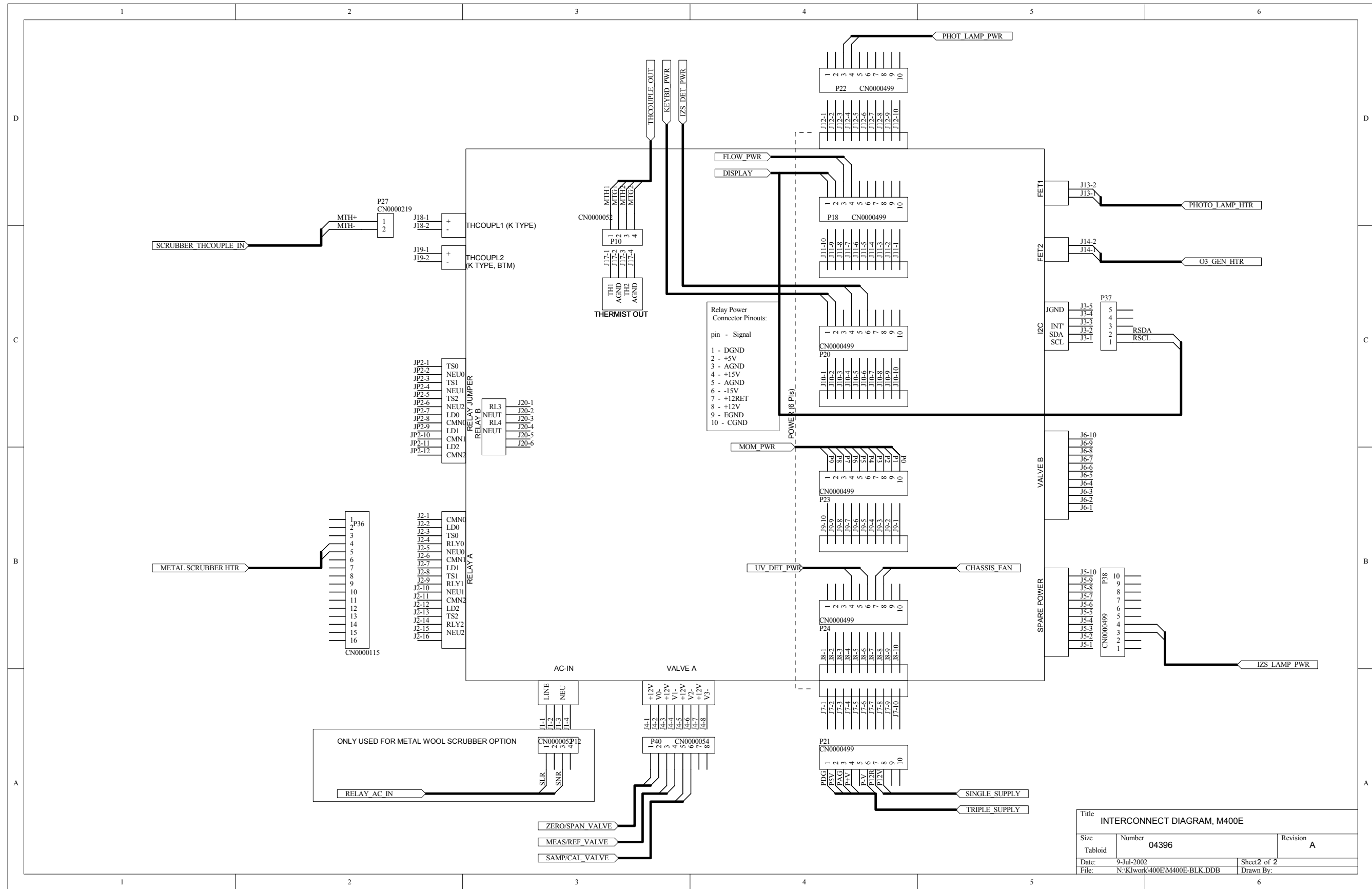


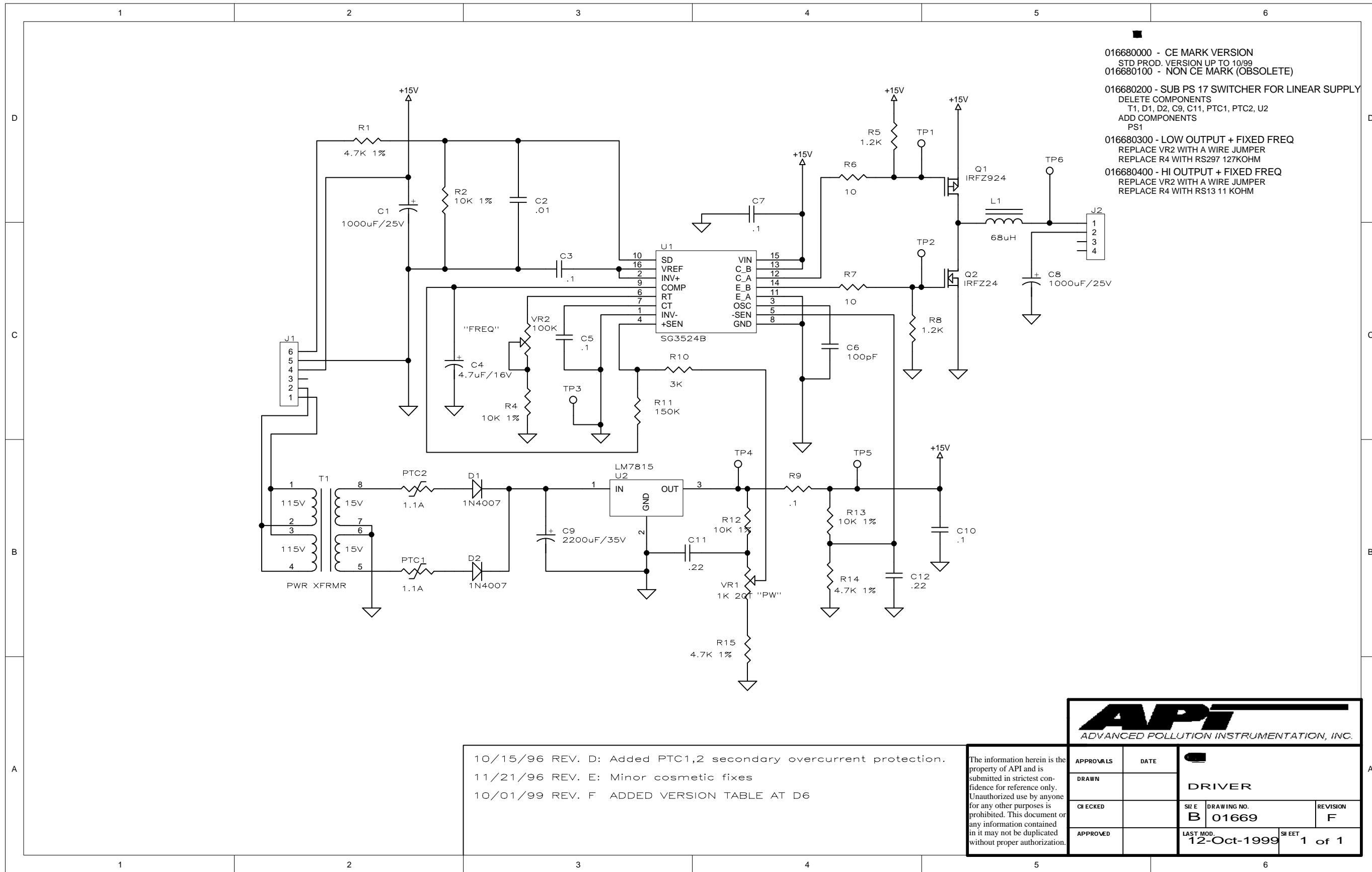
04504 REV A, M200E INTERCONNECT DIAGRAM, 03-FEB-03



Title		
INTERCONNECT DIAGRAM, M400E		
Size	Number	Revision
C	04396	A
Date	9-Jul-2002	Sheet 1 of 2
File	N:\kwork\400E\M400E-RLK.DDB	Drawn By



Title		
INTERCONNECT DIAGRAM, M400E		
Size	Number	Revision
Tabloid	04396	A
Date:	9-Jul-2002	Sheet 2 of 2
File:	N:\Kwork\400E\M400E-BLK.DDB	Drawn By:



016680000 - CE MARK VERSION
 STD PROD. VERSION UP TO 10/99
 016680100 - NON CE MARK (OBSOLETE)

016680200 - SUB PS 17 SWITCHER FOR LINEAR SUPPLY
 DELETE COMPONENTS
 T1, D1, D2, C9, C11, PTC1, PTC2, U2
 ADD COMPONENTS
 PS1

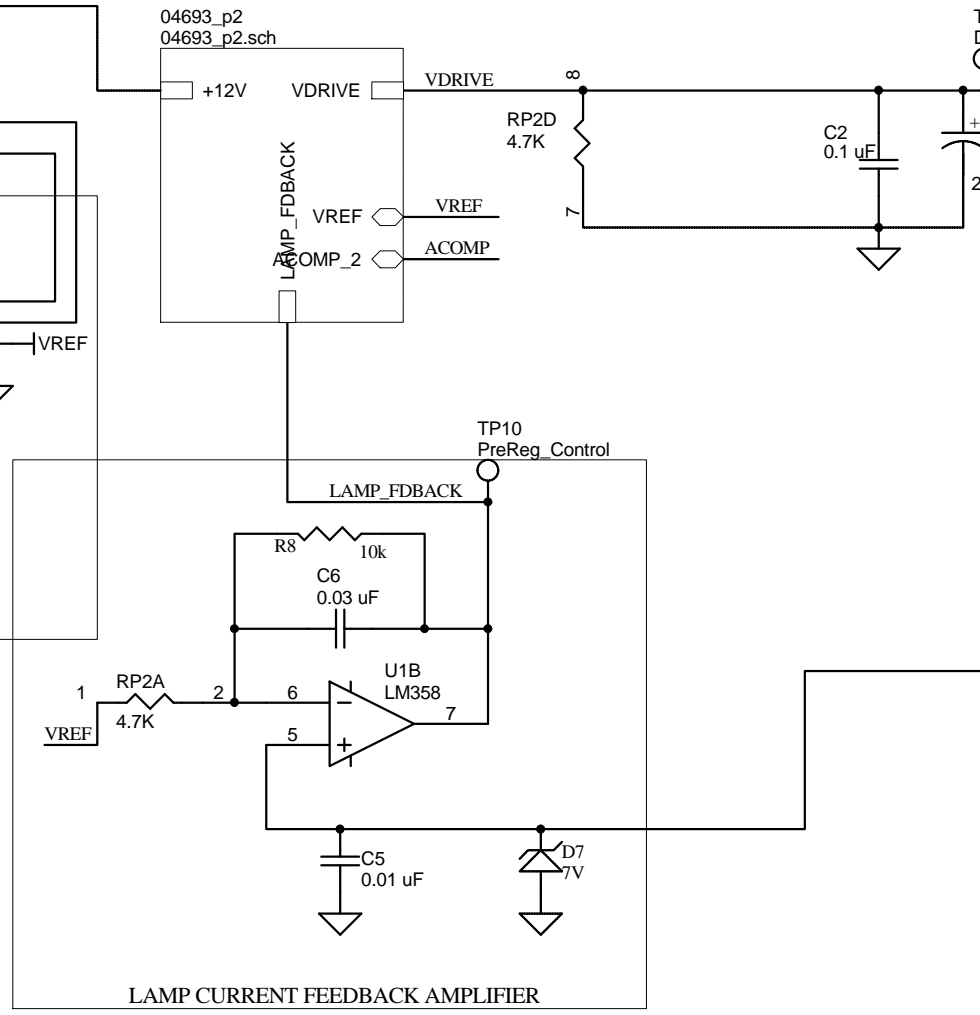
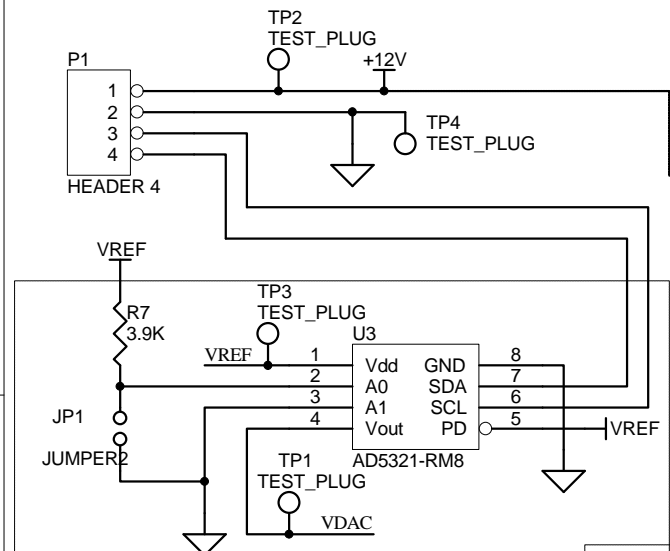
016680300 - LOW OUTPUT + FIXED FREQ
 REPLACE VR2 WITH A WIRE JUMPER
 REPLACE R4 WITH RS297 127KOHM

016680400 - HI OUTPUT + FIXED FREQ
 REPLACE VR2 WITH A WIRE JUMPER
 REPLACE R4 WITH RS13 11 KOHM

10/15/96 REV. D: Added PTC1,2 secondary overcurrent protection.
 11/21/96 REV. E: Minor cosmetic fixes
 10/01/99 REV. F ADDED VERSION TABLE AT D6

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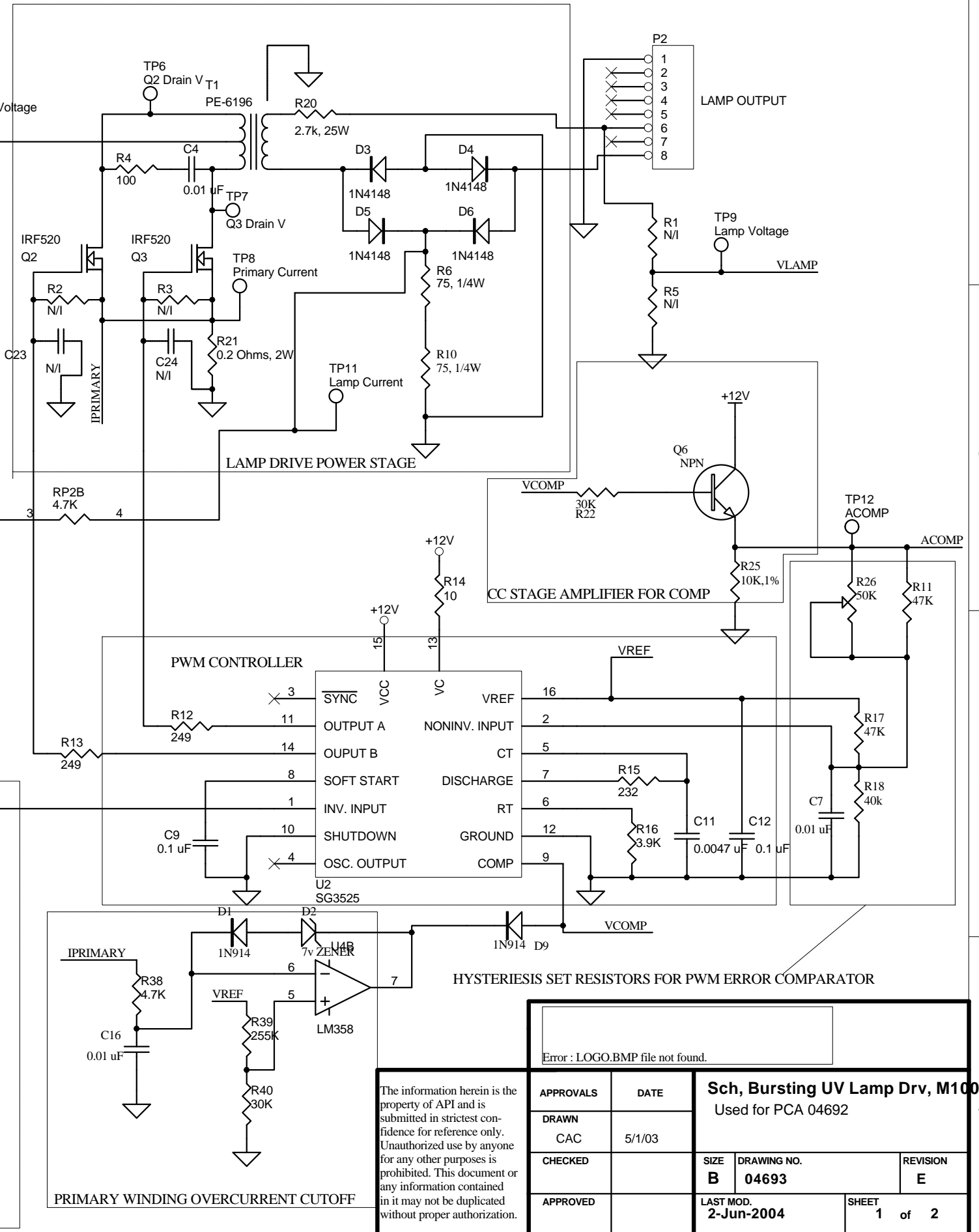
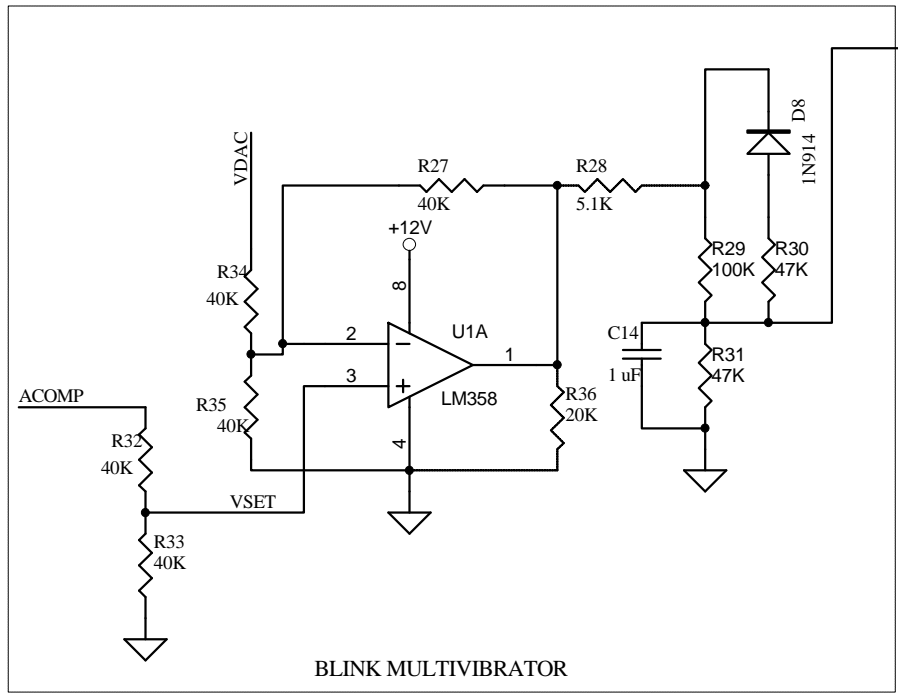
API ADVANCED POLLUTION INSTRUMENTATION, INC.			
APPROVALS	DATE	DRIVER	
DRAWN			
CHECKED		SIZE B	DRAWING NO. 01669
APPROVED		REVISION F	LAST MOD. 12-Oct-1999
		SHEET 1 of 1	



DAC I2C ADDRESS				
A0	A1	WRITE ADDRESS	READ ADDRESS	ASSY NUMBER
0	0	18	19	TBD
0	1	1A	1B	TBD
1	0	1C	1D	TBD
1	1	1E	1F	TBD

Applies to PCAs: 04540 -01 and -02

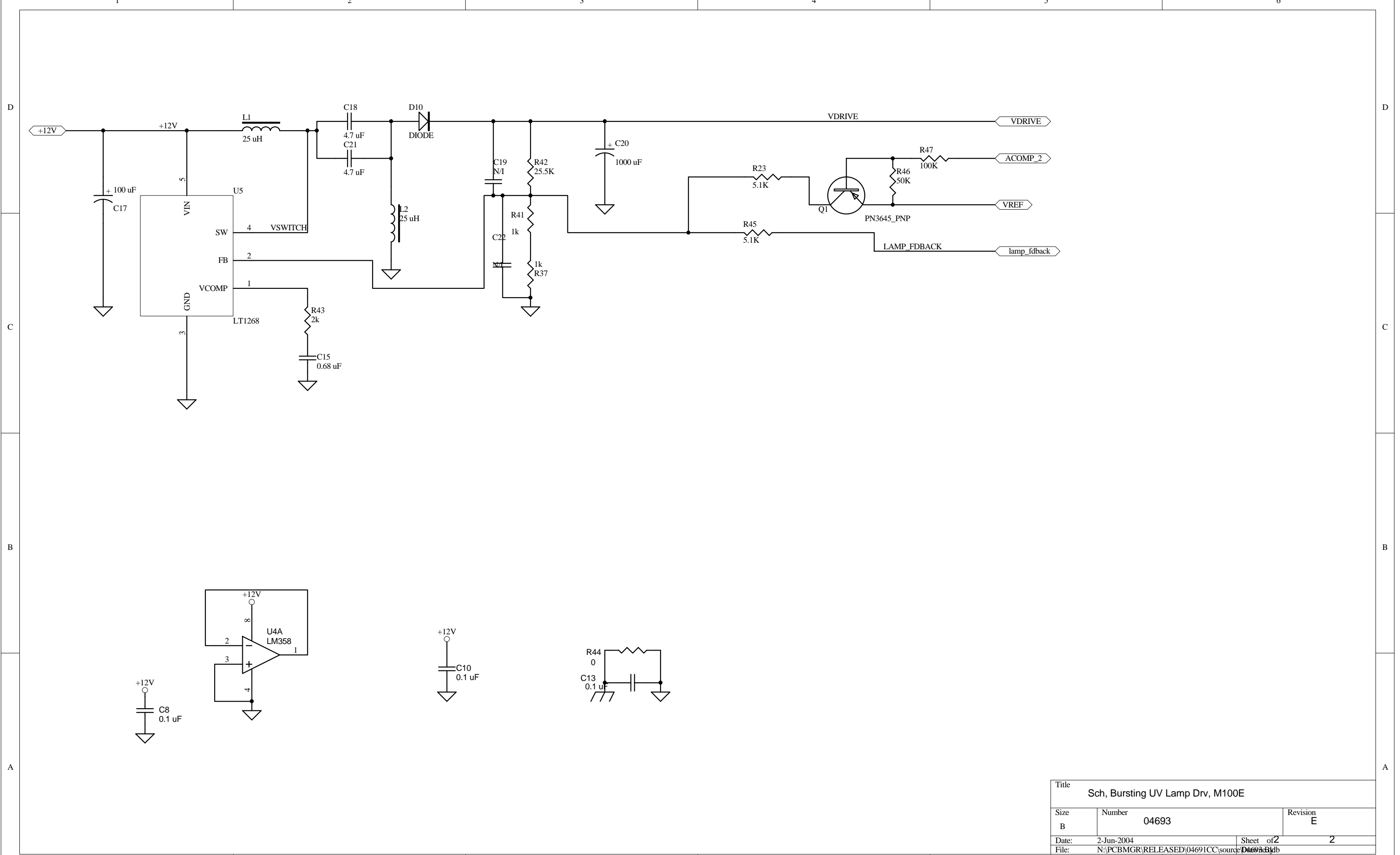
REV.	DATE	CHANGE DESCRIPTION	INITIAL
A	5/1/03	CREATED	CAC
B	6/1/03	Changed layout on 1st switvher stage	CAC
C	9/3/03	Changed R15 value	CAC
C1	11/18/03	Changed R43 & C15 values	CAC



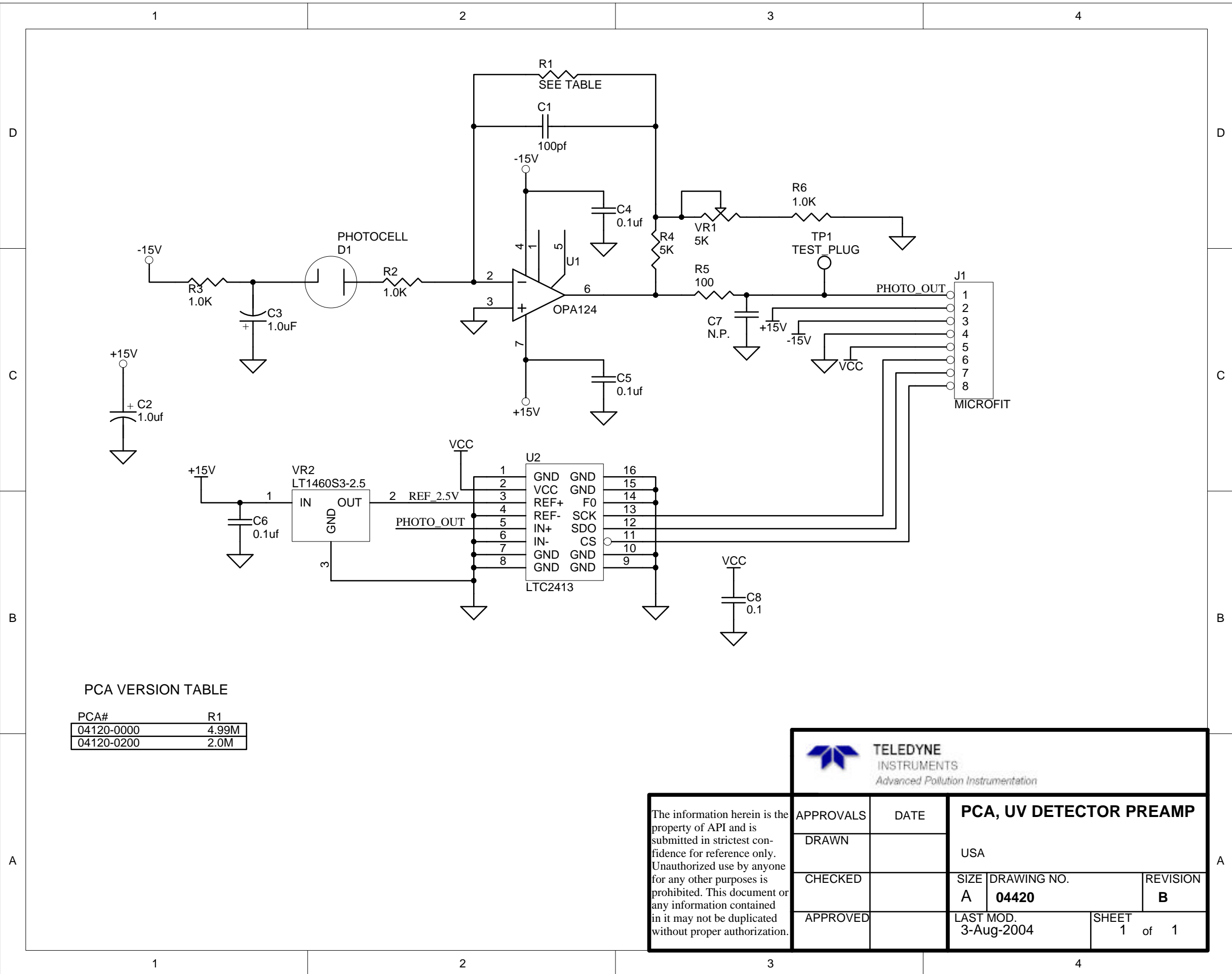
Error : LOGO.BMP file not found.

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APPROVALS	DATE	Sch, Bursting UV Lamp Drv, M100E		
Used for PCA 04692		SIZE	DRAWING NO.	REVISION
DRAWN	5/1/03	B	04693	E
CHECKED		LAST MOD.	2-Jun-2004	SHEET 1 of 2
APPROVED				



Title		
Sch, Bursting UV Lamp Drv, M100E		
Size	Number	Revision
B	04693	E
Date:	2-Jun-2004	Sheet of 2
File:	N:\PCBMGR\RELEASED\04691CC\source\04691db	

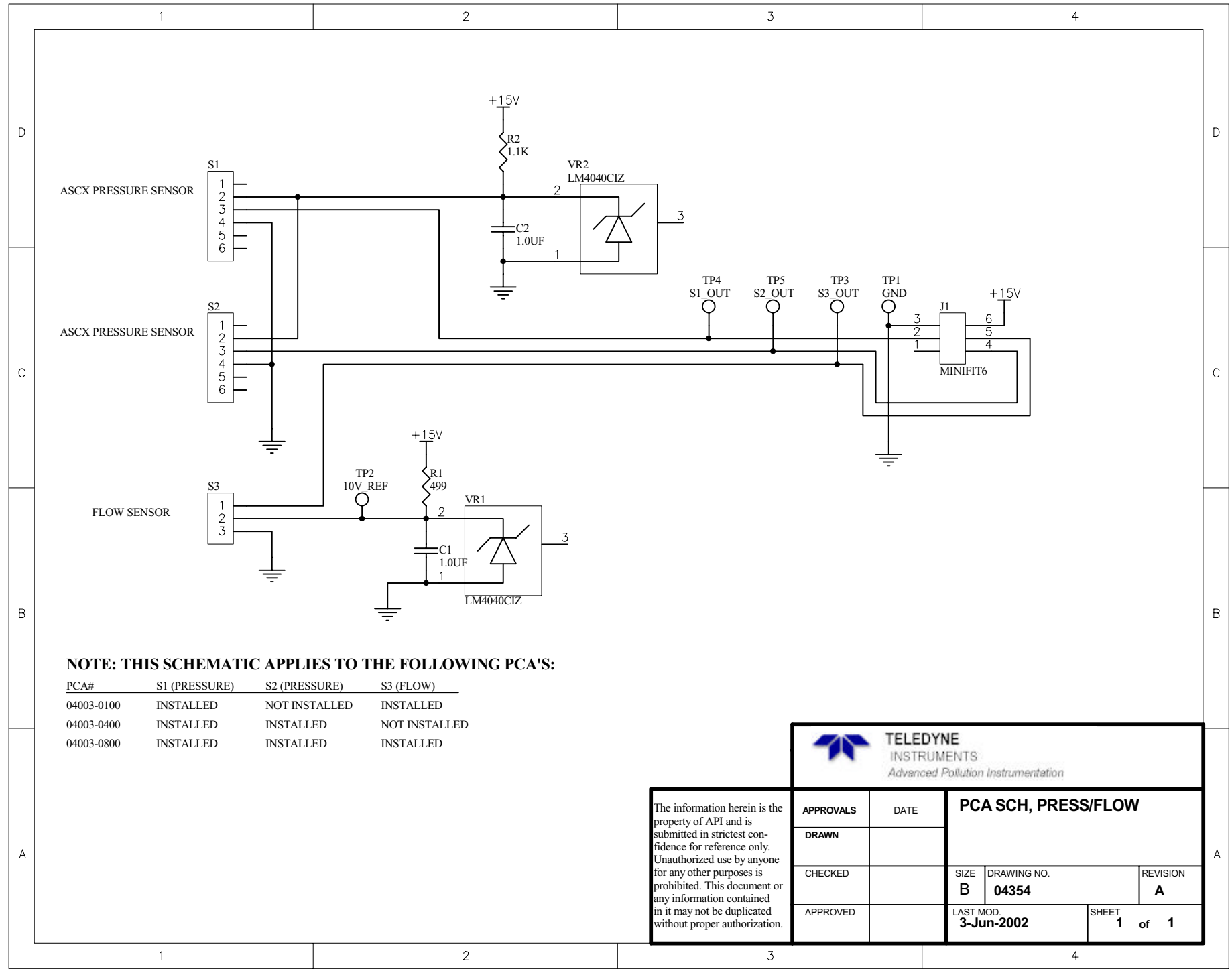



PCA VERSION TABLE

PCA#	R1
04120-0000	4.99M
04120-0200	2.0M



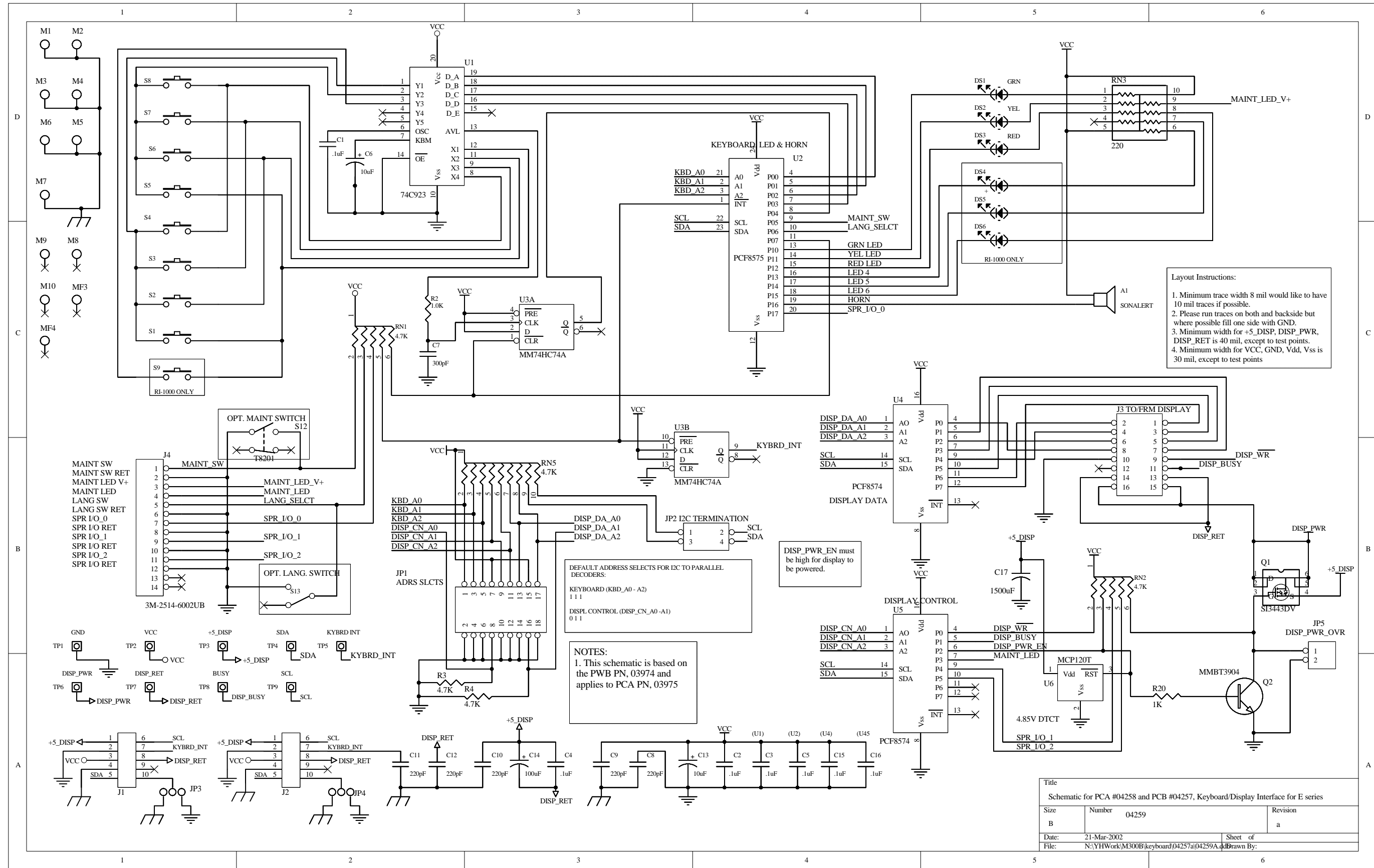
<p>The information herein is the property of API and is submitted in strictest confidence for reference only. Unauthorized use by anyone for any other purposes is prohibited. This document or any information contained in it may not be duplicated without proper authorization.</p>	APPROVALS	DATE	PCA, UV DETECTOR PREAMP		
	DRAWN		USA		
	CHECKED		SIZE A	DRAWING NO. 04420	REVISION B
	APPROVED		LAST MOD. 3-Aug-2004		SHEET 1 of 1



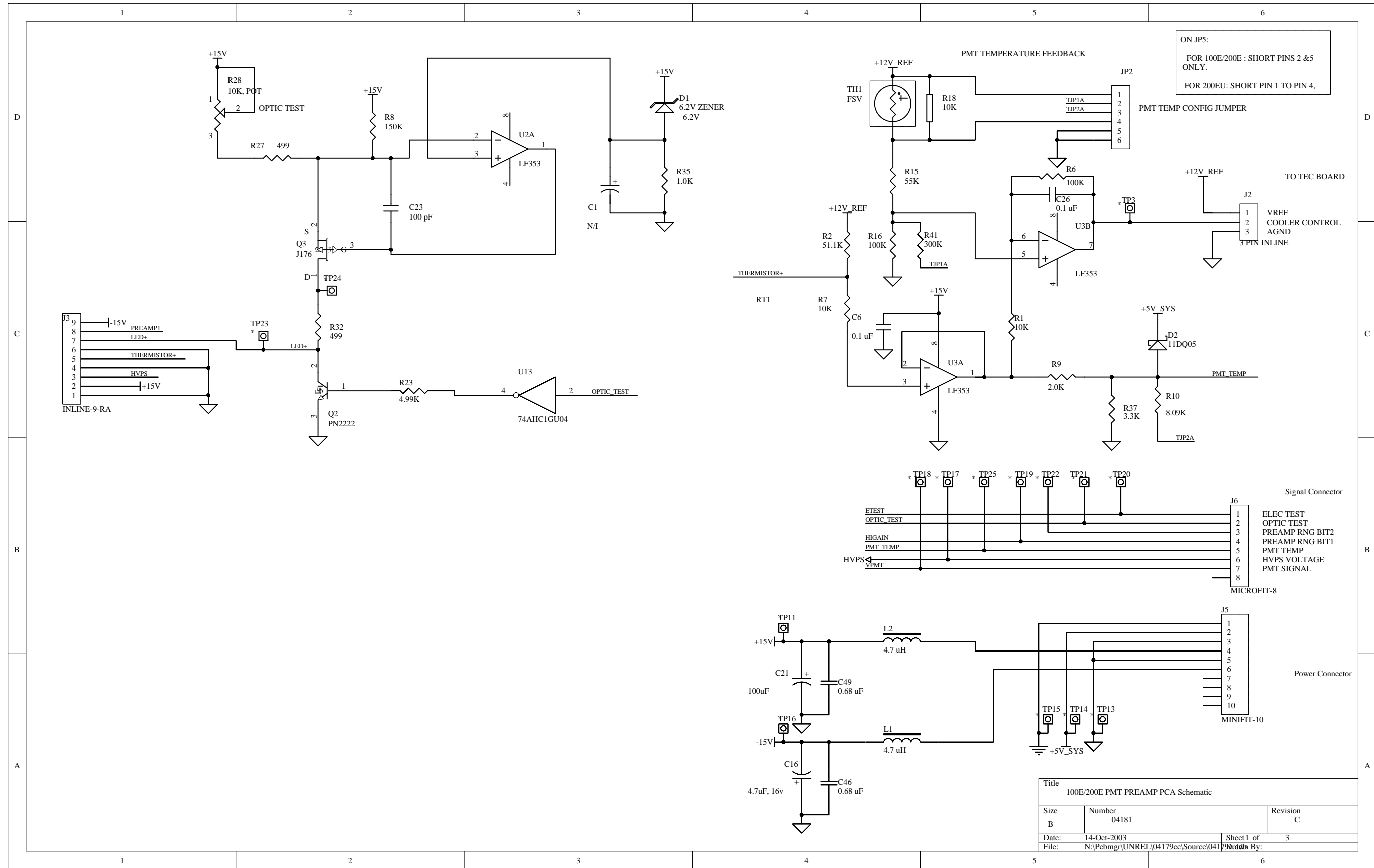
 **TELEDYNE**
INSTRUMENTS
Advanced Pollution Instrumentation

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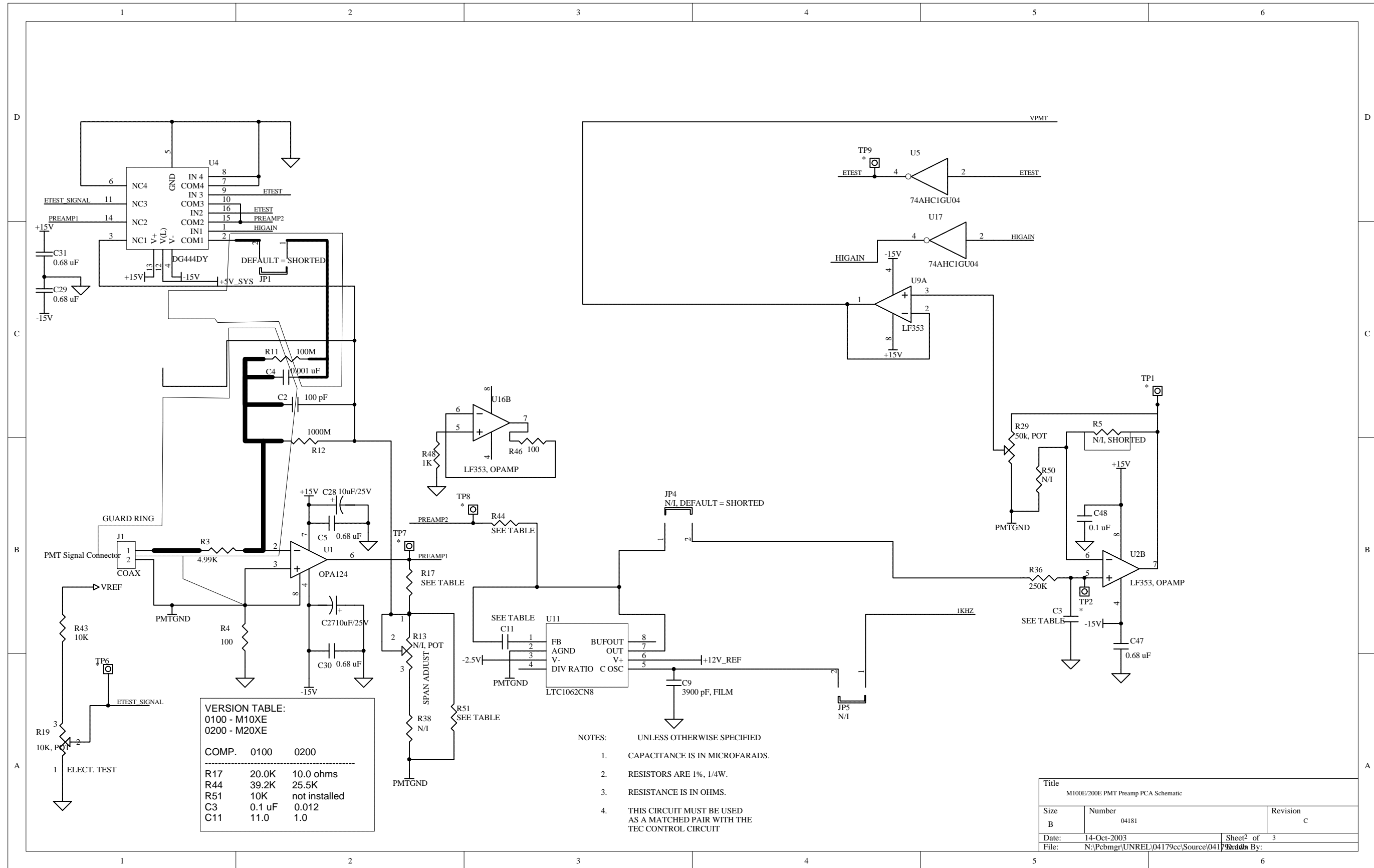
APPROVALS	DATE	PCA SCH, PRESS/FLOW	
DRAWN		SIZE	DRAWING NO.
CHECKED		B	04354
APPROVED		REVISION	A
		LAST MOD.	SHEET
		3-Jun-2002	1 of 1



Title		
Schematic for PCA #04258 and PCB #04257, Keyboard/Display Interface for E series		
Size	Number	Revision
B	04259	a
Date:	21-Mar-2002	Sheet of
File:	N:\YHWork\M300B\keyboard\04257a\04259A.d	Drawn By:



Title		
100E/200E PMT PREAMP PCA Schematic		
Size	Number	Revision
B	04181	C
Date:	14-Oct-2003	Sheet 1 of 3
File:	N:\Pcbmgr\UNREL\04179cc\Source\04179cc.dwg By: [Name]	

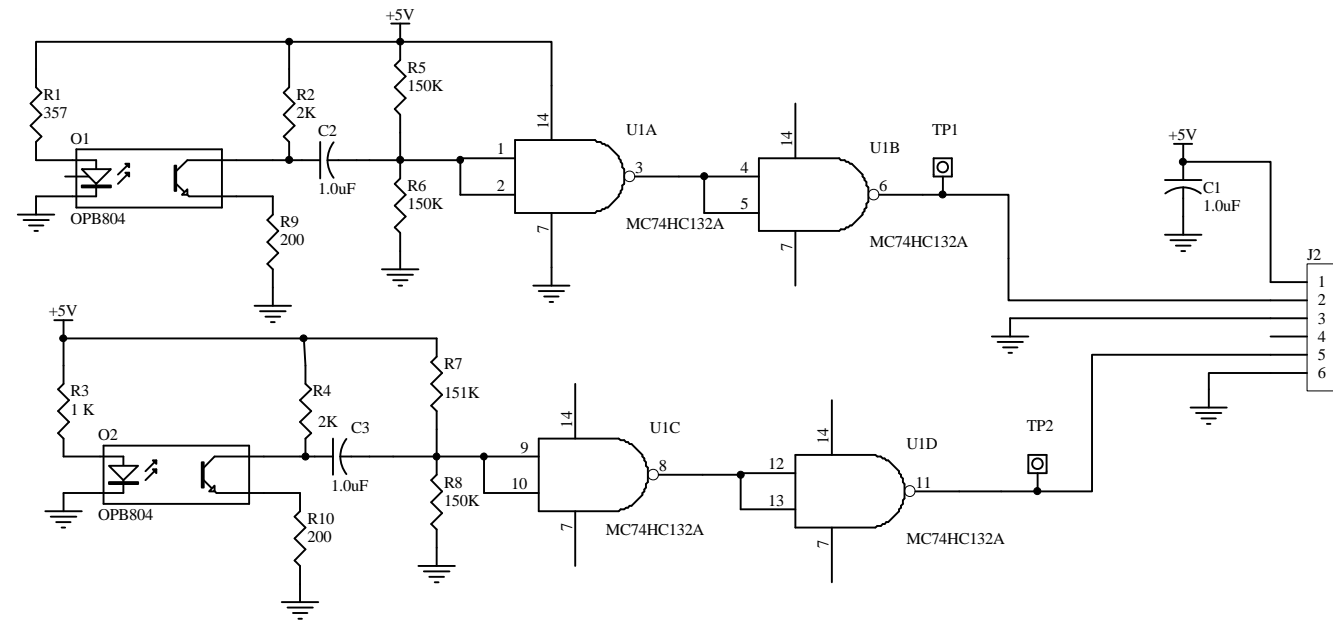


VERSION TABLE:
 0100 - M10XE
 0200 - M20XE

COMP.	0100	0200
R17	20.0K	10.0 ohms
R44	39.2K	25.5K
R51	10K	not installed
C3	0.1 uF	0.012
C11	11.0	1.0

- NOTES: UNLESS OTHERWISE SPECIFIED
- CAPACITANCE IS IN MICROFARADS.
 - RESISTORS ARE 1%, 1/4W.
 - RESISTANCE IS IN OHMS.
 - THIS CIRCUIT MUST BE USED AS A MATCHED PAIR WITH THE TEC CONTROL CIRCUIT

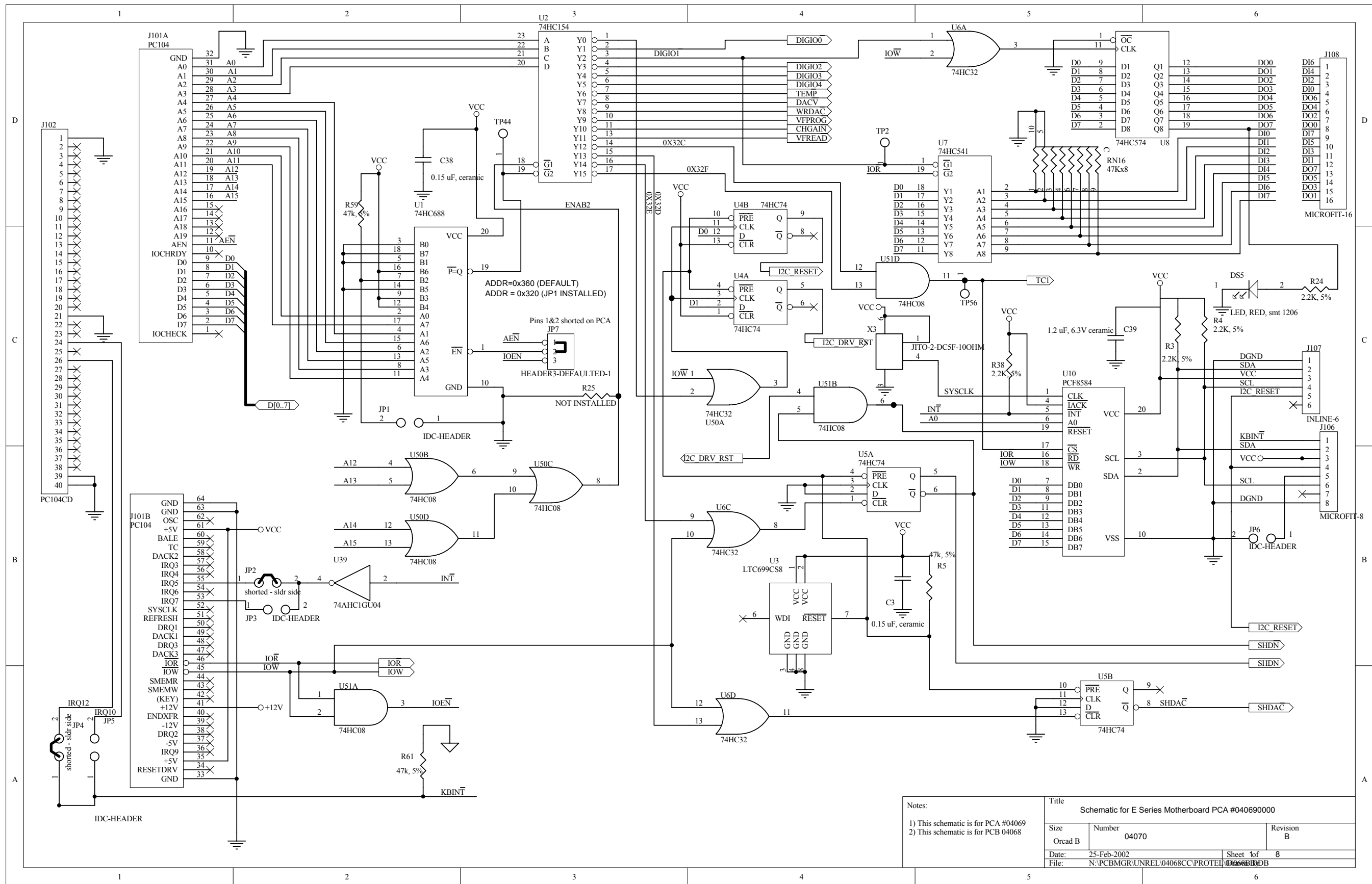
Title M100E/200E PMT Preamp PCA Schematic		
Size B	Number 04181	Revision C
Date: 14-Oct-2003	Sheet 2 of 3	Drawn By: N:\Pcbmgr\UNREL\04179cc\Source\04179cc.dwg

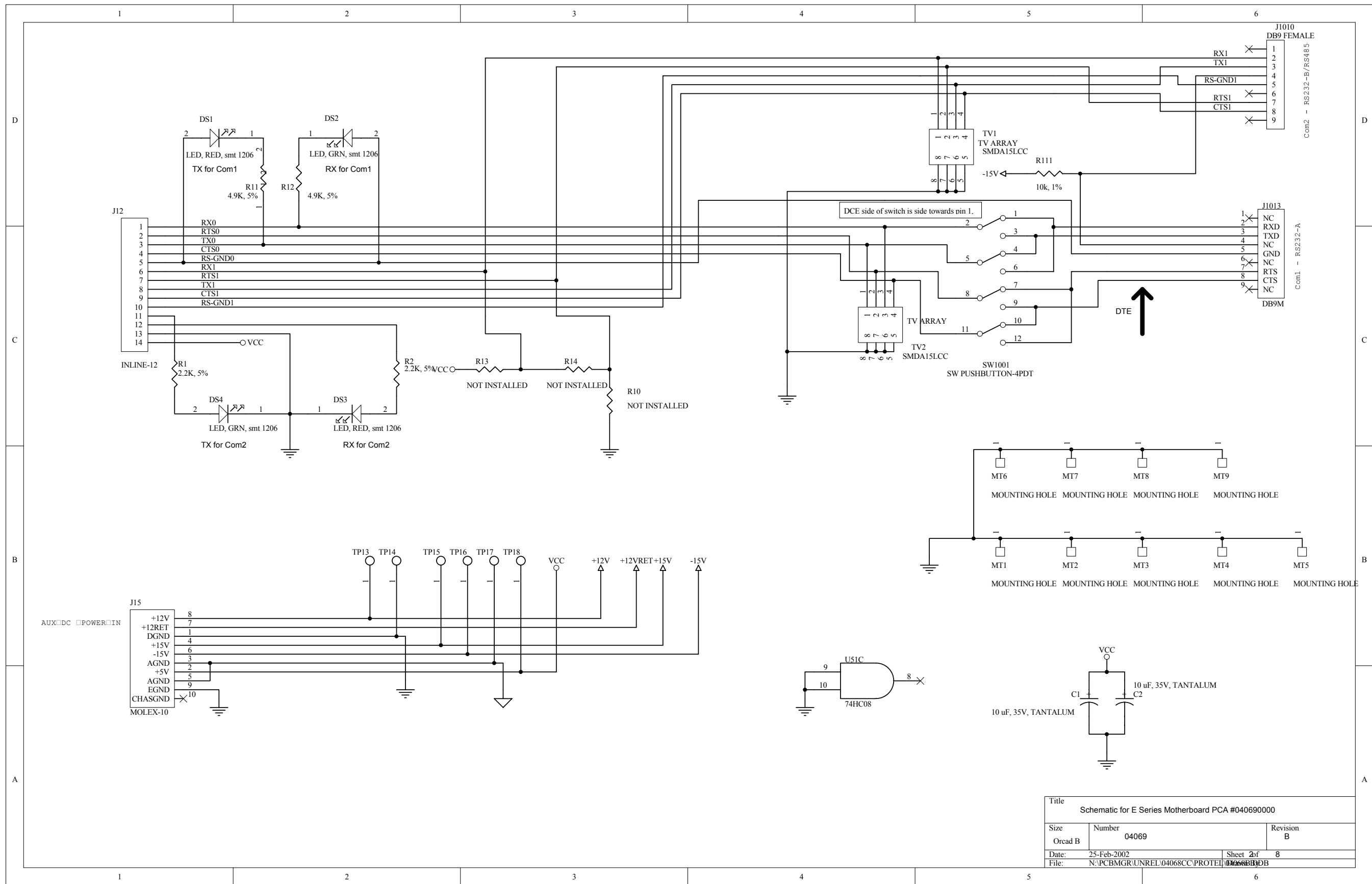


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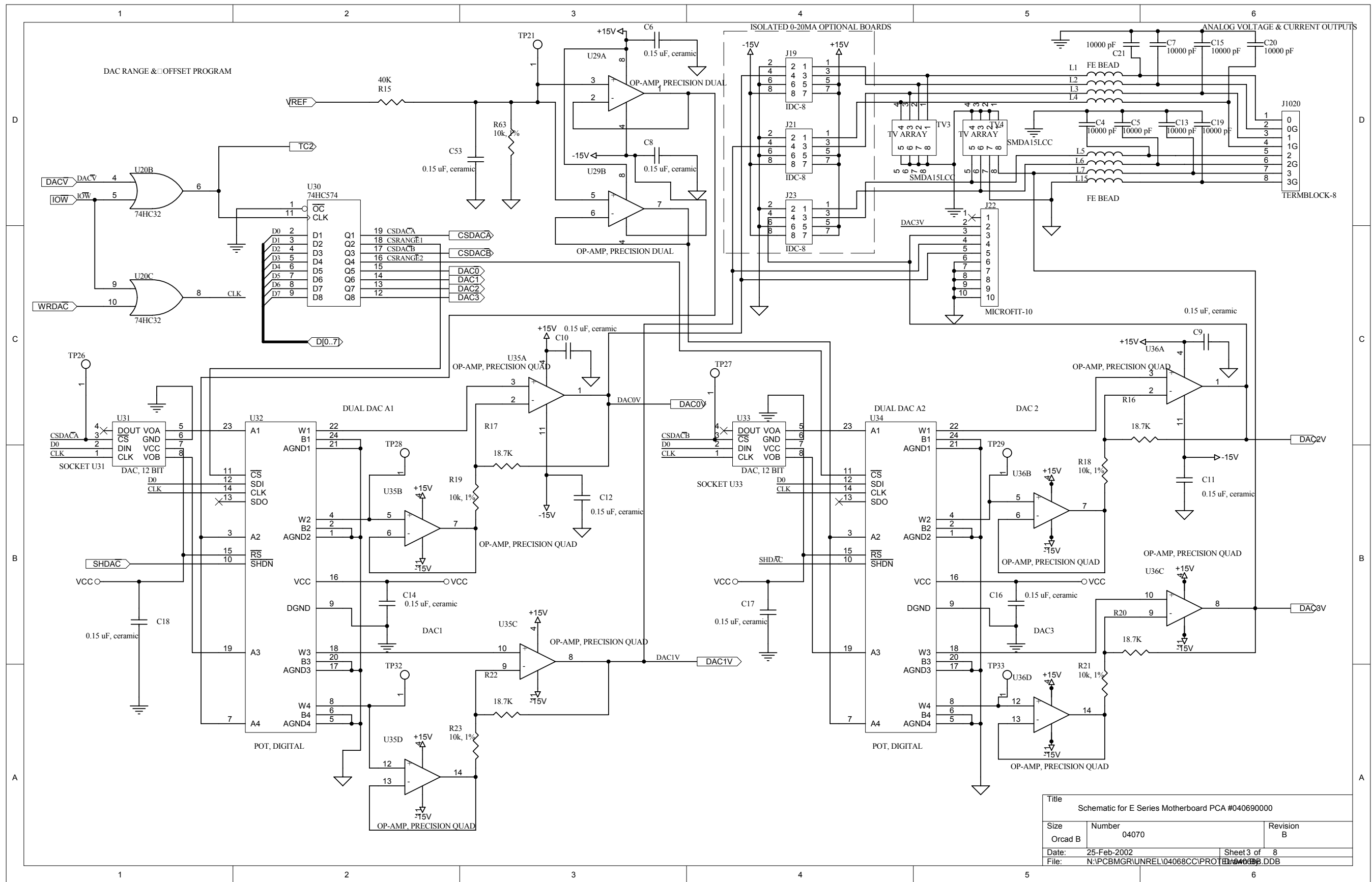
APPROVALS		DATE		4/30/01	
DRAWN		CHECKED		APPROVED	
CAC					
SIZE	DRAWING NO.	REVISION			
B	04089	A			
LAST MOD.			SHEET		
2-Apr-2002			1 of 1		

Schematics for PWB 04087 and PCA 04088 OPTO-INTERRUPTER

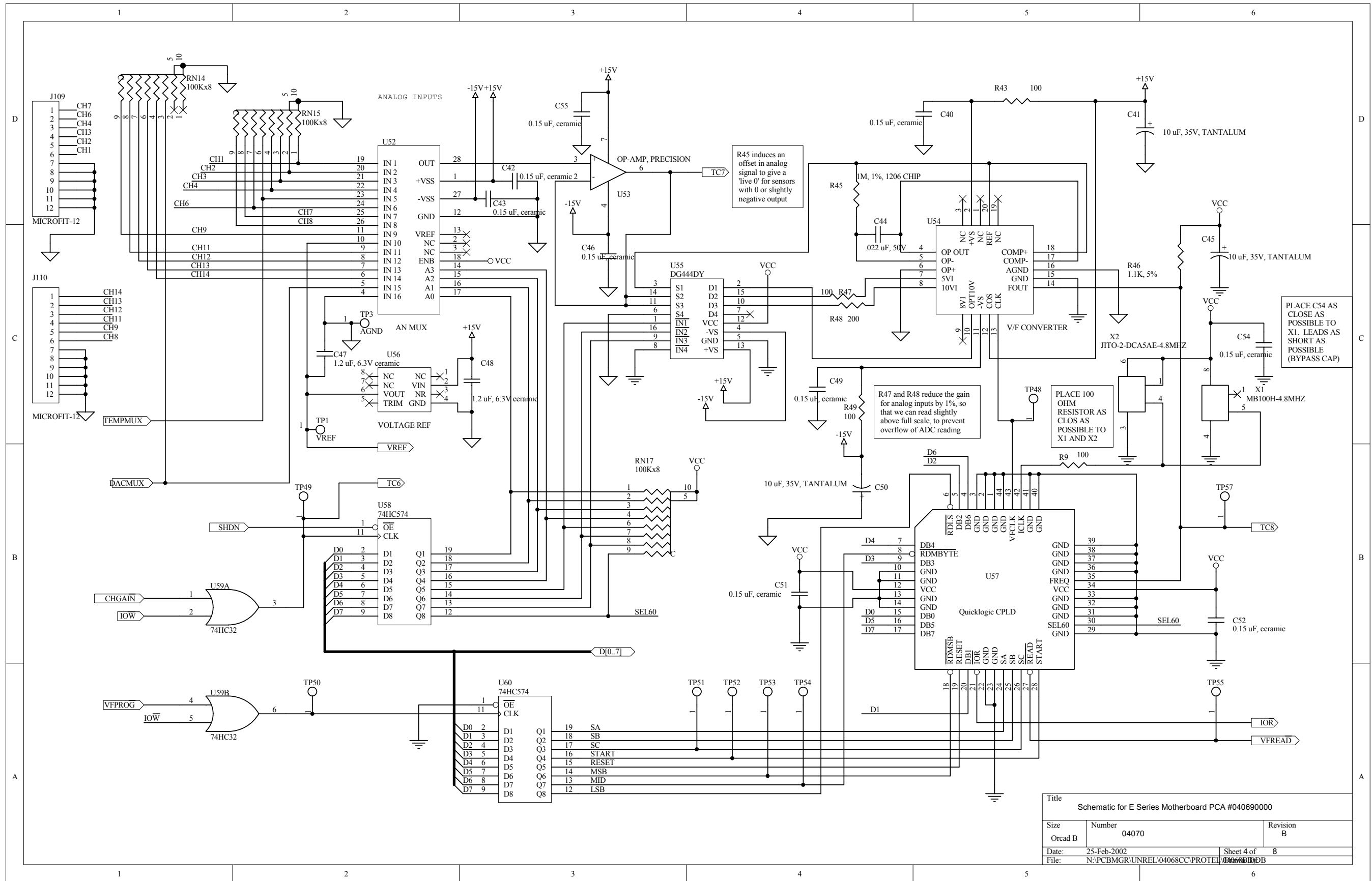




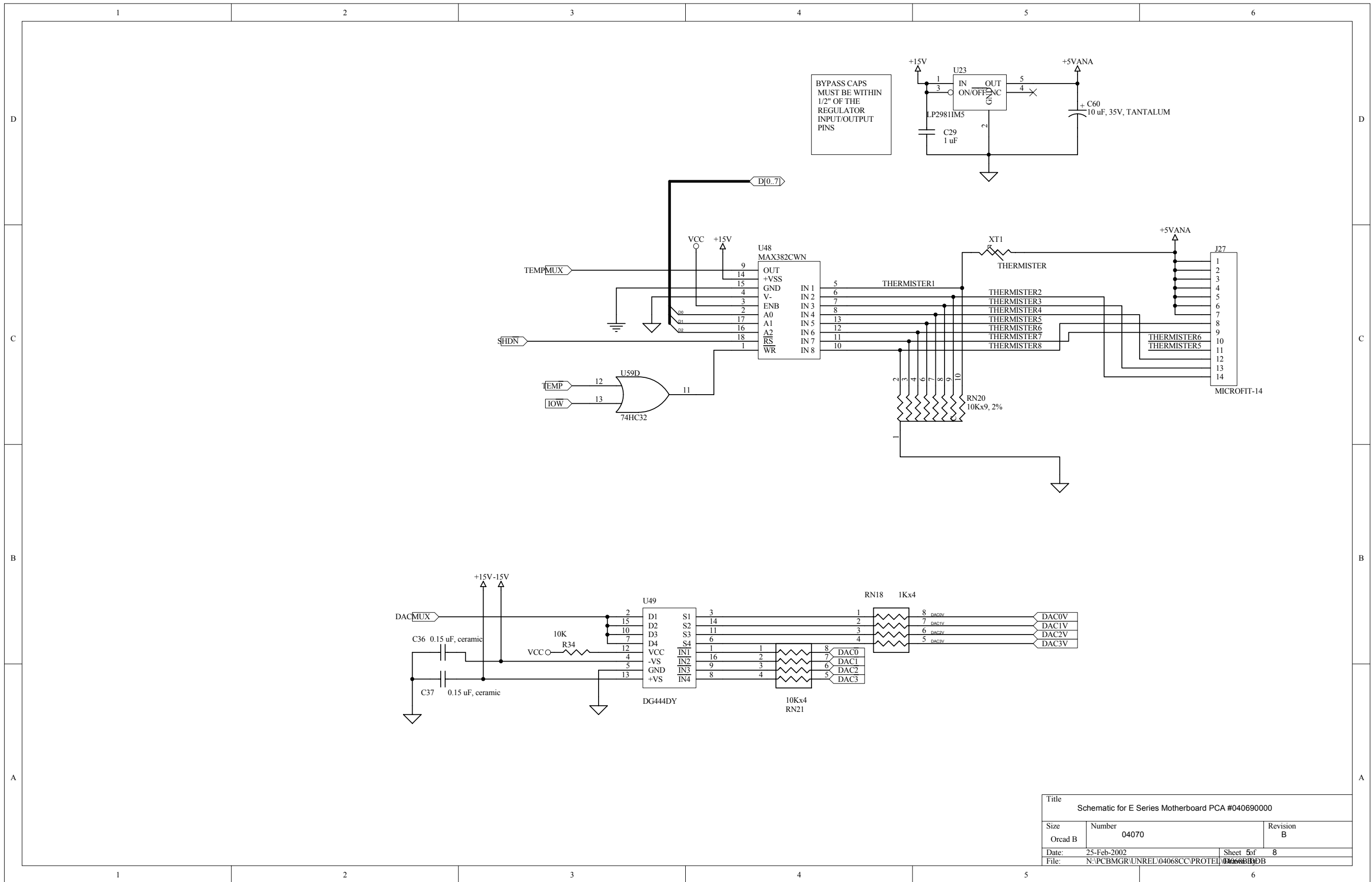
Title		
Schematic for E Series Motherboard PCA #040690000		
Size	Number	Revision
Oread B	04069	B
Date:	25-Feb-2002	Sheet 2 of 8
File:	N:\PCBMGR\UNREL\04068CC\PROTEL\04069.DDB	



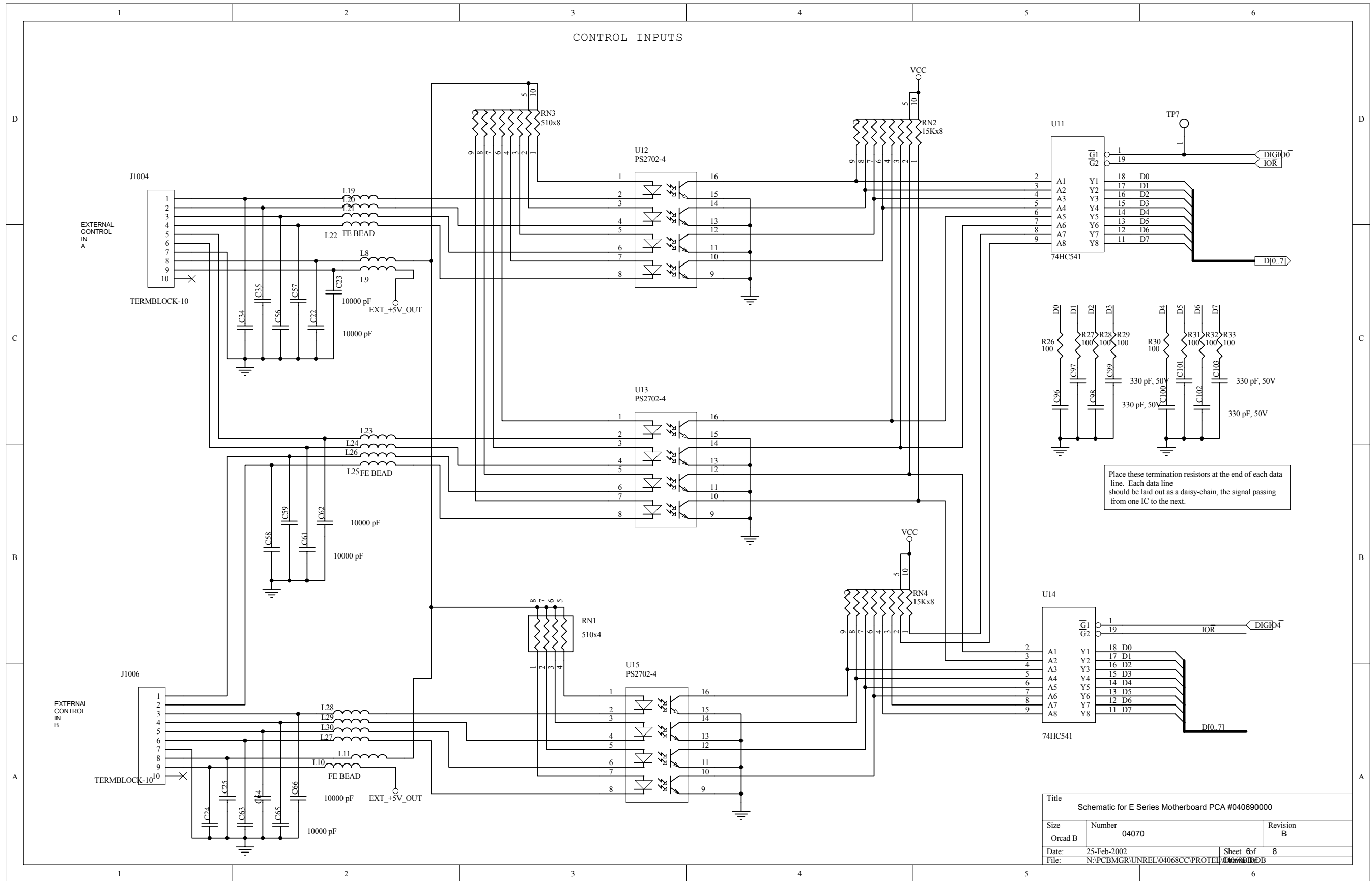
Title		
Schematic for E Series Motherboard PCA #040690000		
Size	Number	Revision
Orcad B	04070	B
Date:	25-Feb-2002	Sheet 3 of 8
File:	N:\PCBMGR\UNREL\04068CC\PROT\04068CC.DDB	

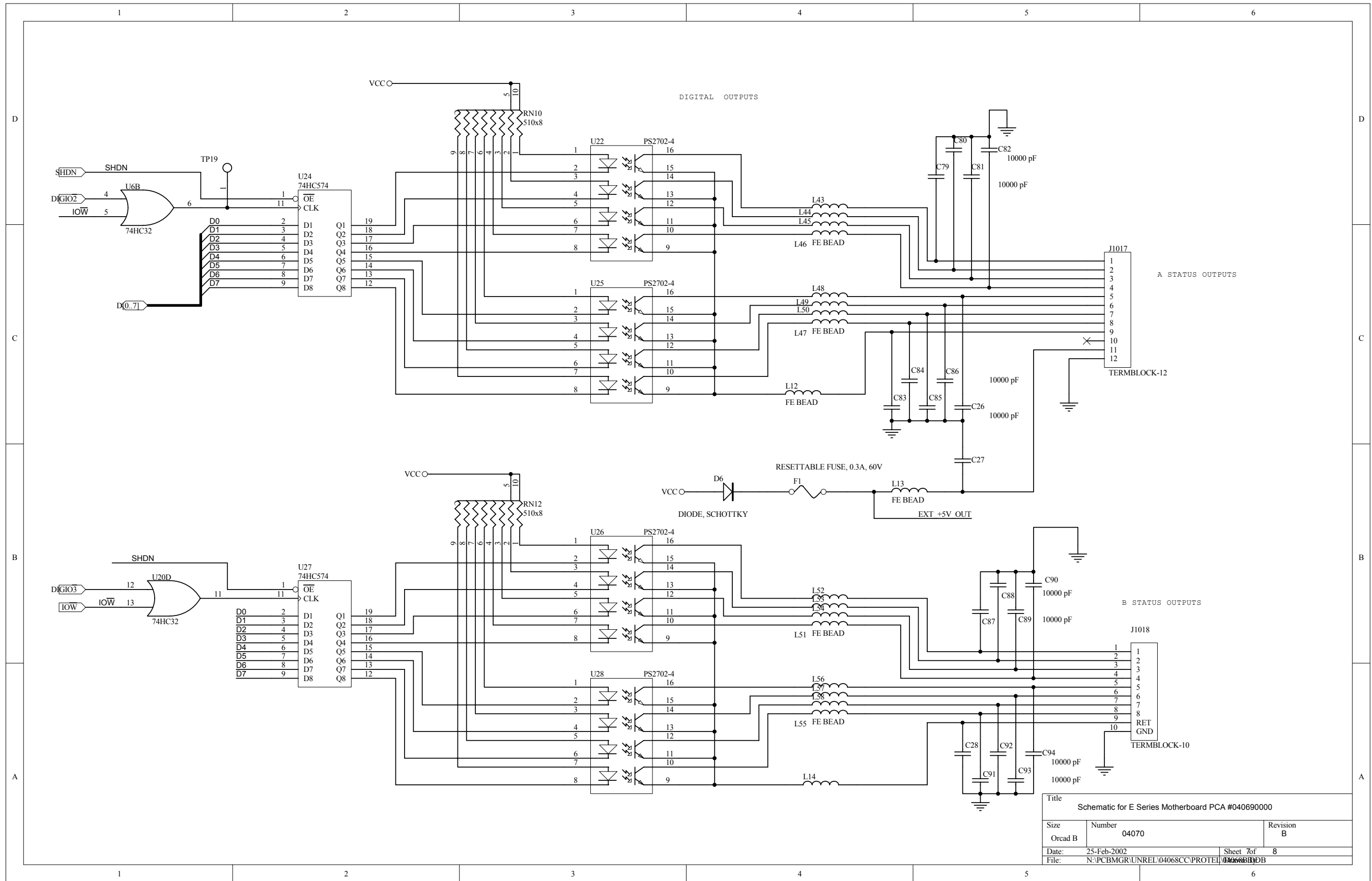


Title		
Schematic for E Series Motherboard PCA #040690000		
Size	Number	Revision
Orad B	04070	B
Date:	25-Feb-2002	Sheet 4 of 8
File:	N:\PCBMGR\UNREL\04068CC\PROTEL\04068CC.DDB	

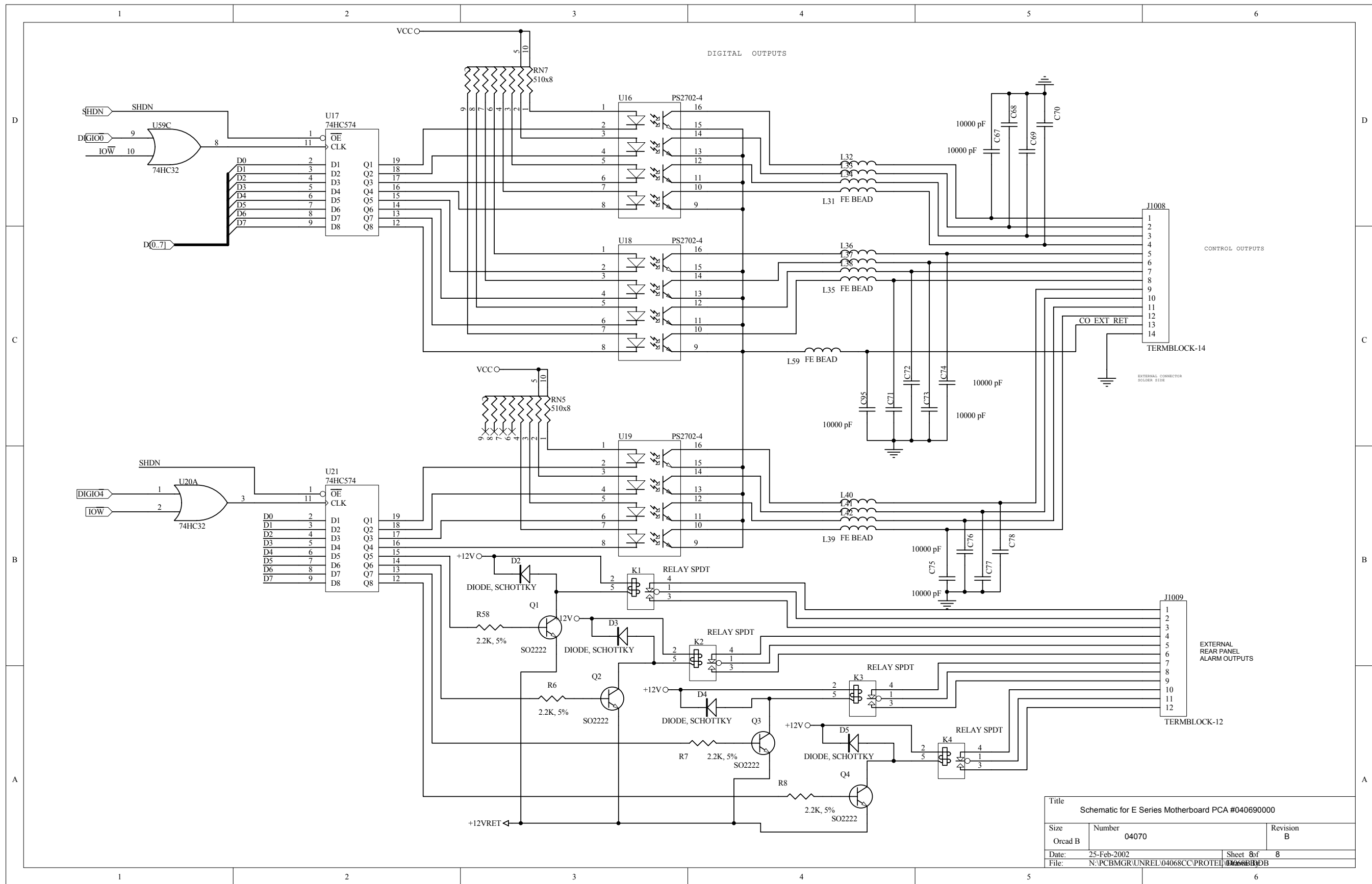


Title		
Schematic for E Series Motherboard PCA #040690000		
Size	Number	Revision
Orcad B	04070	B
Date:	25-Feb-2002	Sheet 5 of 8
File:	N:\PCBMGR\UNREL\04068CC\PROTEL\04068CC.DDB	





Title		
Schematic for E Series Motherboard PCA #040690000		
Size	Number	Revision
Orcad B	04070	B
Date:	25-Feb-2002	Sheet 7 of 8
File:	N:\PCBMGR\UNREL\04068CC\PROTEL\04068CC.DDB	



Title		
Schematic for E Series Motherboard PCA #040690000		
Size	Number	Revision
Orcad B	04070	B
Date:	25-Feb-2002	Sheet 8 of 8
File:	N:\PCBMGR\UNREL\04068CC\PROTEL\04068CC.DDB	

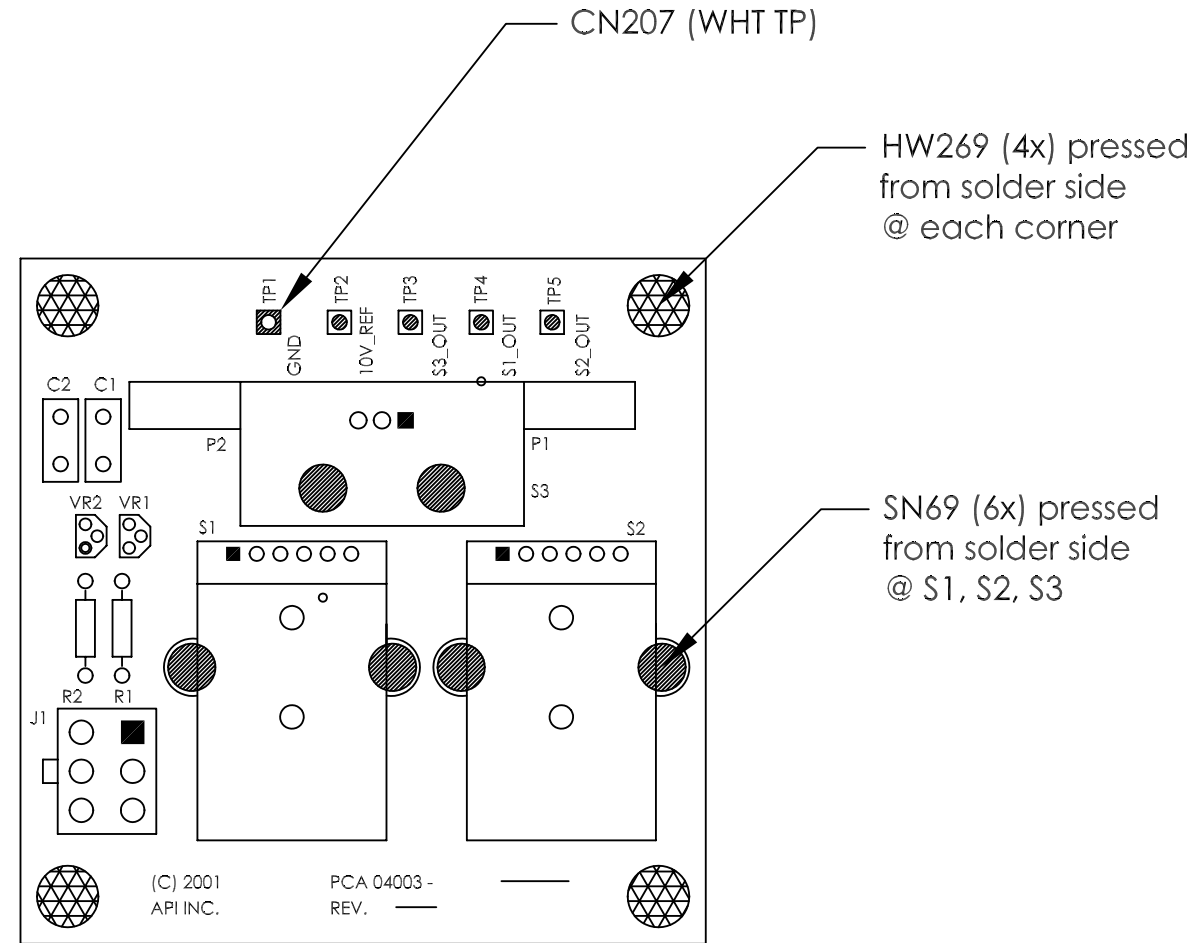
Notes:

1. Install HW269 (#4x0.25" PCB Spacer) at each corner mounting hole on the solder side.
2. Install SN69 (#4-40 PEM nut) at S1, S2 & S3 on the solder side.
3. See Version Table for installation of S1, S2, & S3.
4. Securely fasten FM4 (S3) and SW26 (S1 & S2) to the PCB before soldering. Use #4-40x1/4" screws and star washers for FM4 and use #4-40x5/8" screws and star washers for SW26.
5. Use adjustable soldering station set to 400 C (750 F) when soldering FM4 (S3) & SW26 (S1 & S2).

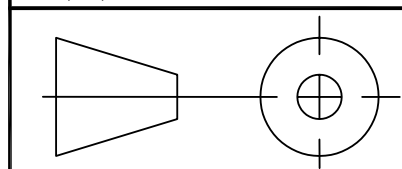
VERSION TABLE

VERSION	S1	S2	S3	USED ON
000V				
0100	1		1	100E, 300E, 300EM, 400E
0400	1	1		
0800	1	1	1	200E

REVISIONS				
REV	DESCRIPTION	DATE	DCN	APPROVED
A	PRODUCTION RELEASE	8/5/02	2259	CB



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THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
TOLERANCES ARE:		
FRACTIONS ± 1/32	DECIMALS ±.03[0.76] ±.010[0.25]	ANGULAR ±0° 30'
DO NOT SCALE DRAWING		

TREATMENT	NA
-----------	----

FINISH	
--------	--

SIMILAR TO	
------------	--

CONTRACT:	NA
-----------	----

APPROVALS	DATE
-----------	------

DRAWN	RH
-------	----

CHECK	
-------	--

CCB	
-----	--

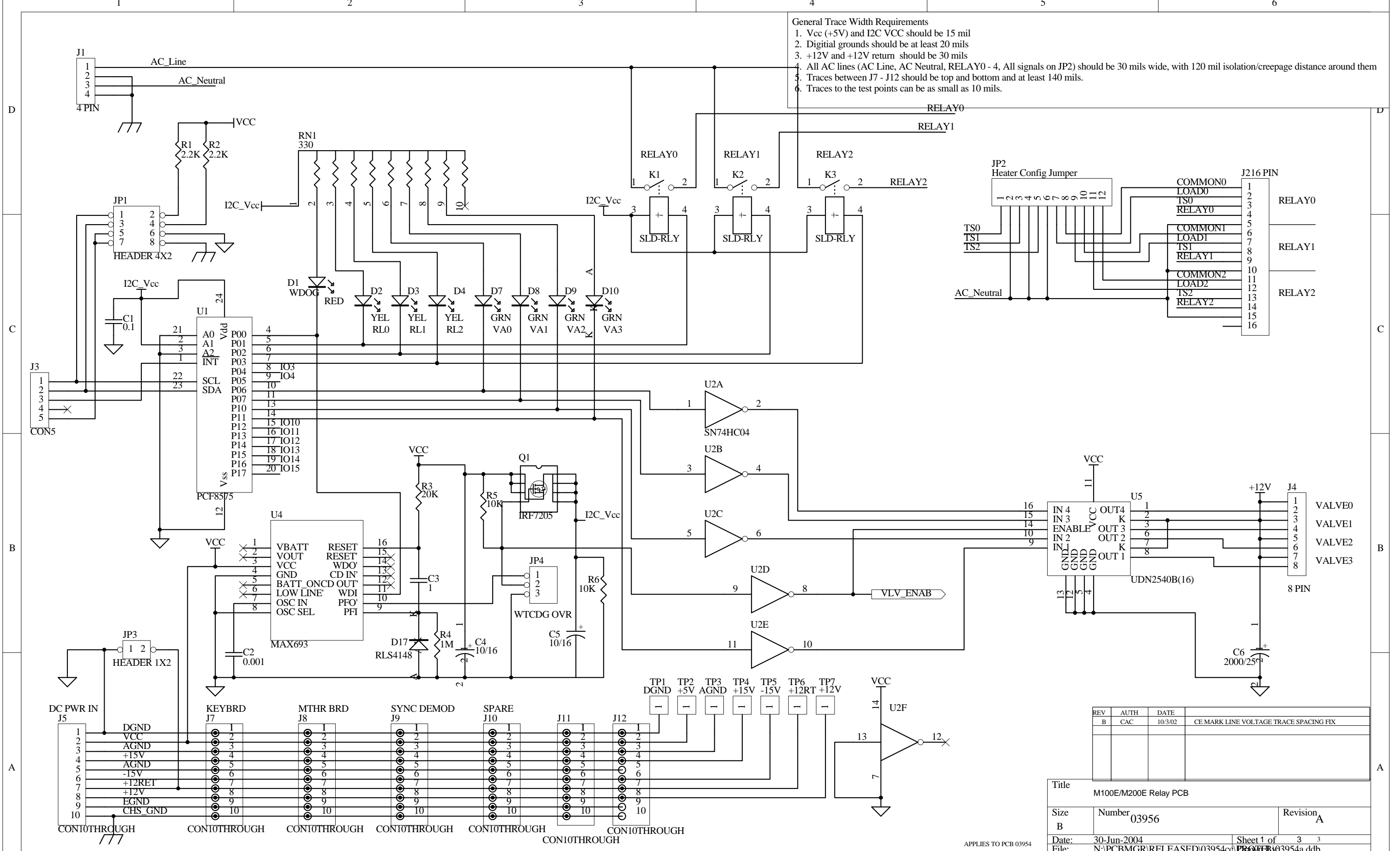
API ADVANCED POLLUTION INSTRUMENTATION, INC. SAN DIEGO, CA	
--	--

TITLE		PCA, PRESSURE/FLOW "E" SERIES	
-------	--	----------------------------------	--

SIZE	CAGE CODE NO.	DWG. NO.	REV
A	1JZF4	04003	A

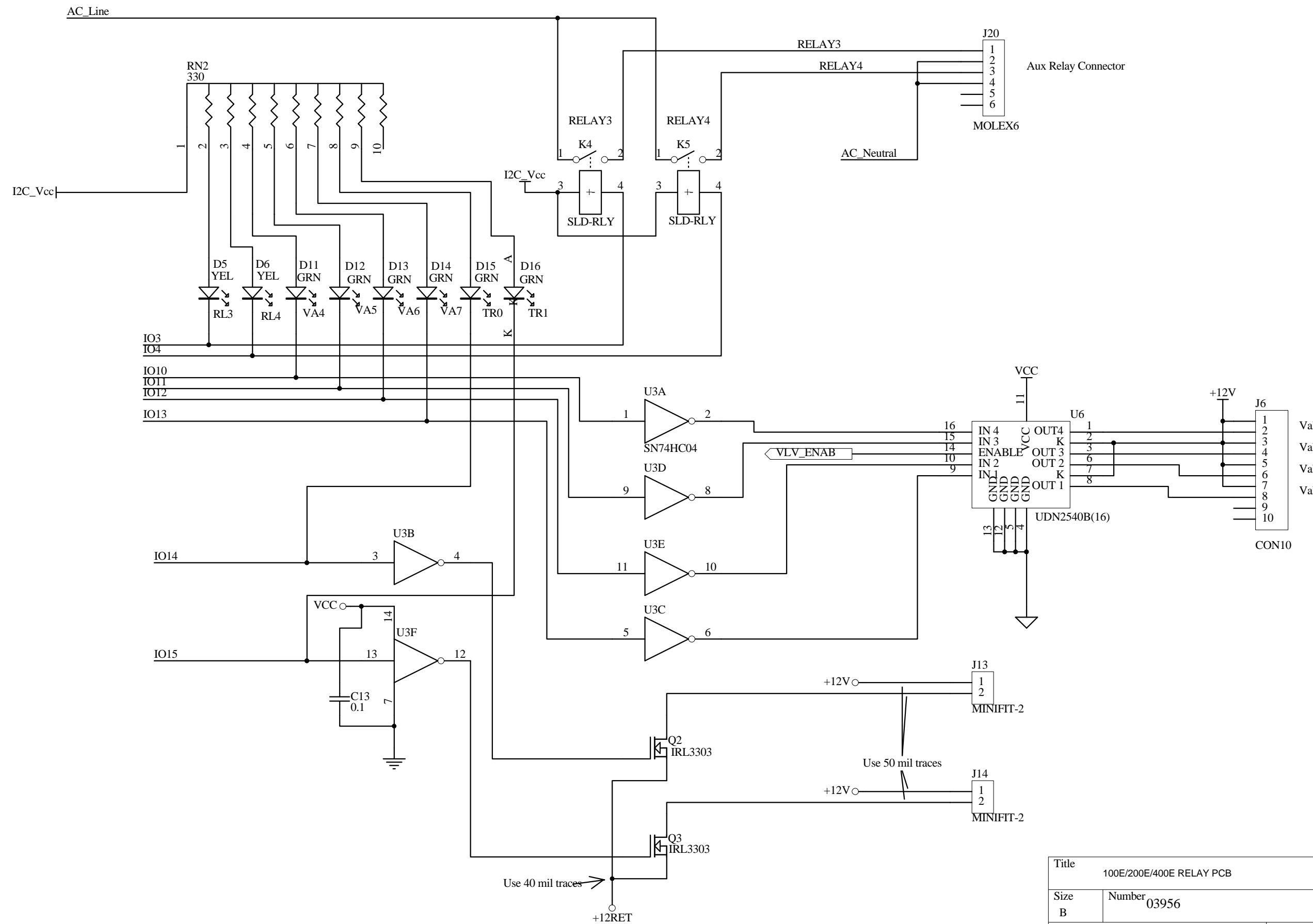
SCALE	FILE	SHEET
1/1	04003	1 OF 1

General Trace Width Requirements
 1. Vcc (+5V) and I2C VCC should be 15 mil
 2. Digital grounds should be at least 20 mils
 3. +12V and +12V return should be 30 mils
 4. All AC lines (AC Line, AC Neutral, RELAY0 - 4, All signals on JP2) should be 30 mils wide, with 120 mil isolation/creepage distance around them
 5. Traces between J7 - J12 should be top and bottom and at least 140 mils.
 6. Traces to the test points can be as small as 10 mils.

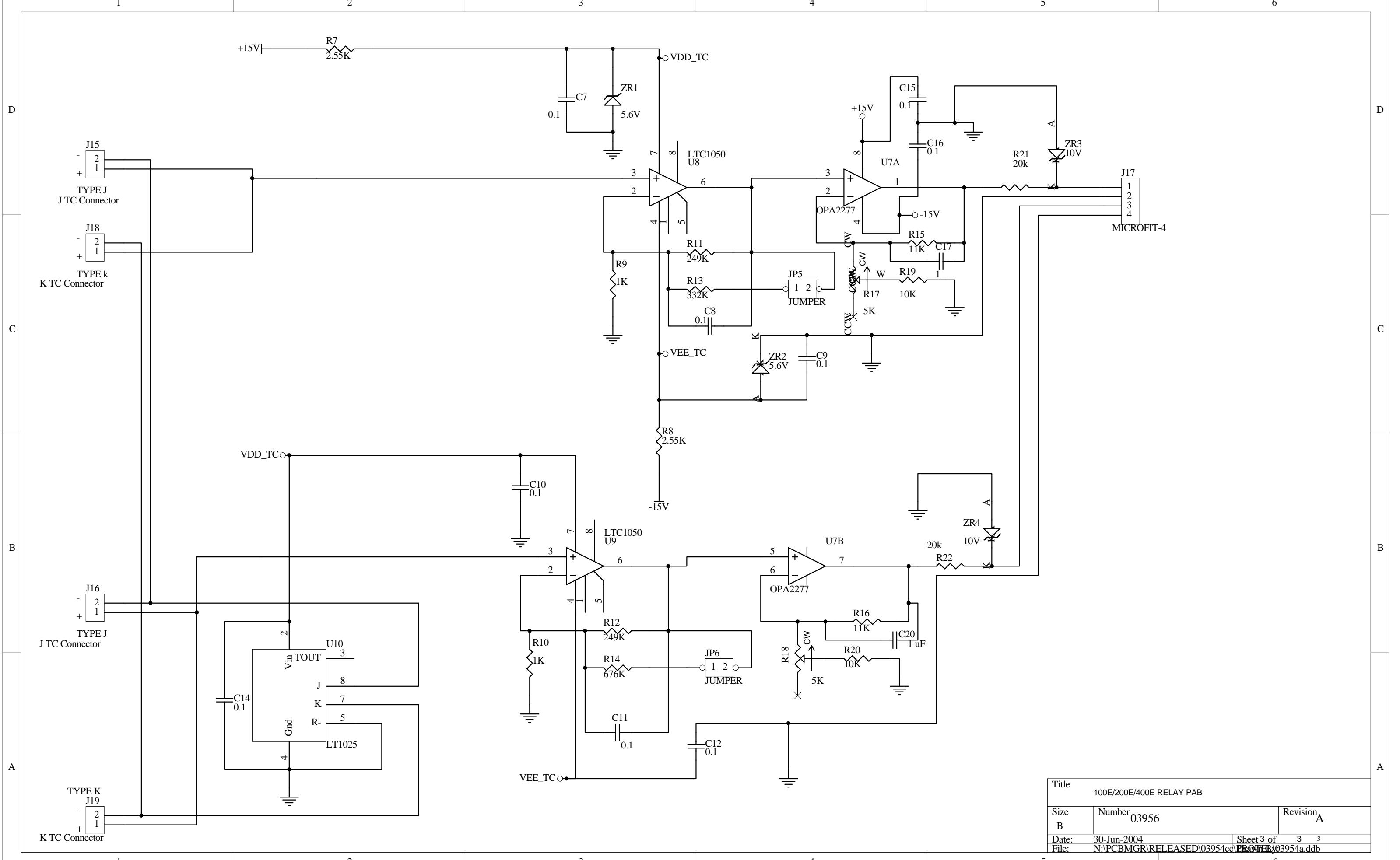


REV	AUTH	DATE	DESCRIPTION
B	CAC	10/3/02	CE MARK LINE VOLTAGE TRACE SPACING FIX


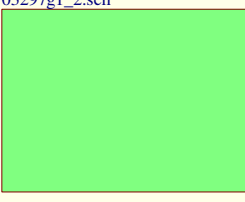
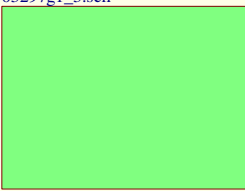
Title: M100E/M200E Relay PCB		
Size: B	Number: 03956	Revision: A
Date: 30-Jun-2004	Sheet 1 of 3	3
File: N:\PCBMGR\RELEASED\03954cd\PCB\03954a.ddb	APPLIES TO PCB 03954	



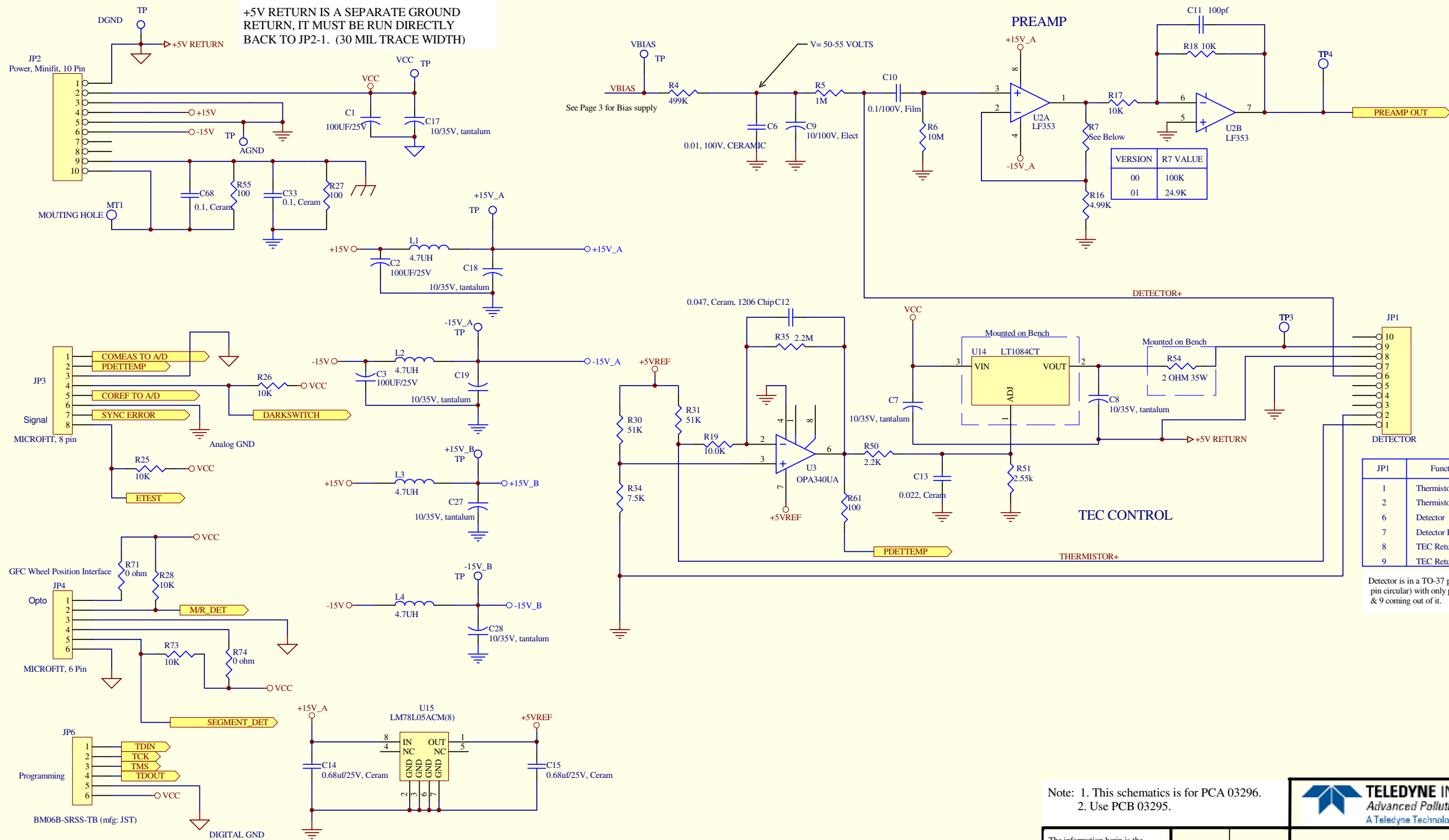
Title		
100E/200E/400E RELAY PCB		
Size	Number	Revision
B	03956	A
Date:	30-Jun-2004	Sheet 2 of 3
File:	N:\PCBMGR\RELEASED\03954cd\PCB\03954a.ddb	



Title	100E/200E/400E RELAY PAB	
Size	Number 03956	Revision A
Date:	30-Jun-2004	Sheet 3 of 3
File:	N:\PCBMGR\RELEASED\03954cd\PROJ\03954a.ddb	

	1	2	3	4
D	<p>Sync Demod Page 1 03297g1_1.sch</p> 			D
C	<p>Sync Demod Page 2 03297g1_2.sch</p> 			C
B	<p>Sync Demod Page 3 03297g1_3.sch</p> 			B
A				A
	1	2	3	4

Title		
Size	Number	Revision
Letter		
Date:	12-Aug-2004	Sheet of
File:	H:\3296-Preamp_Sync_Demod-Burned_Ch1.DDB\02\03297g1.DDB	



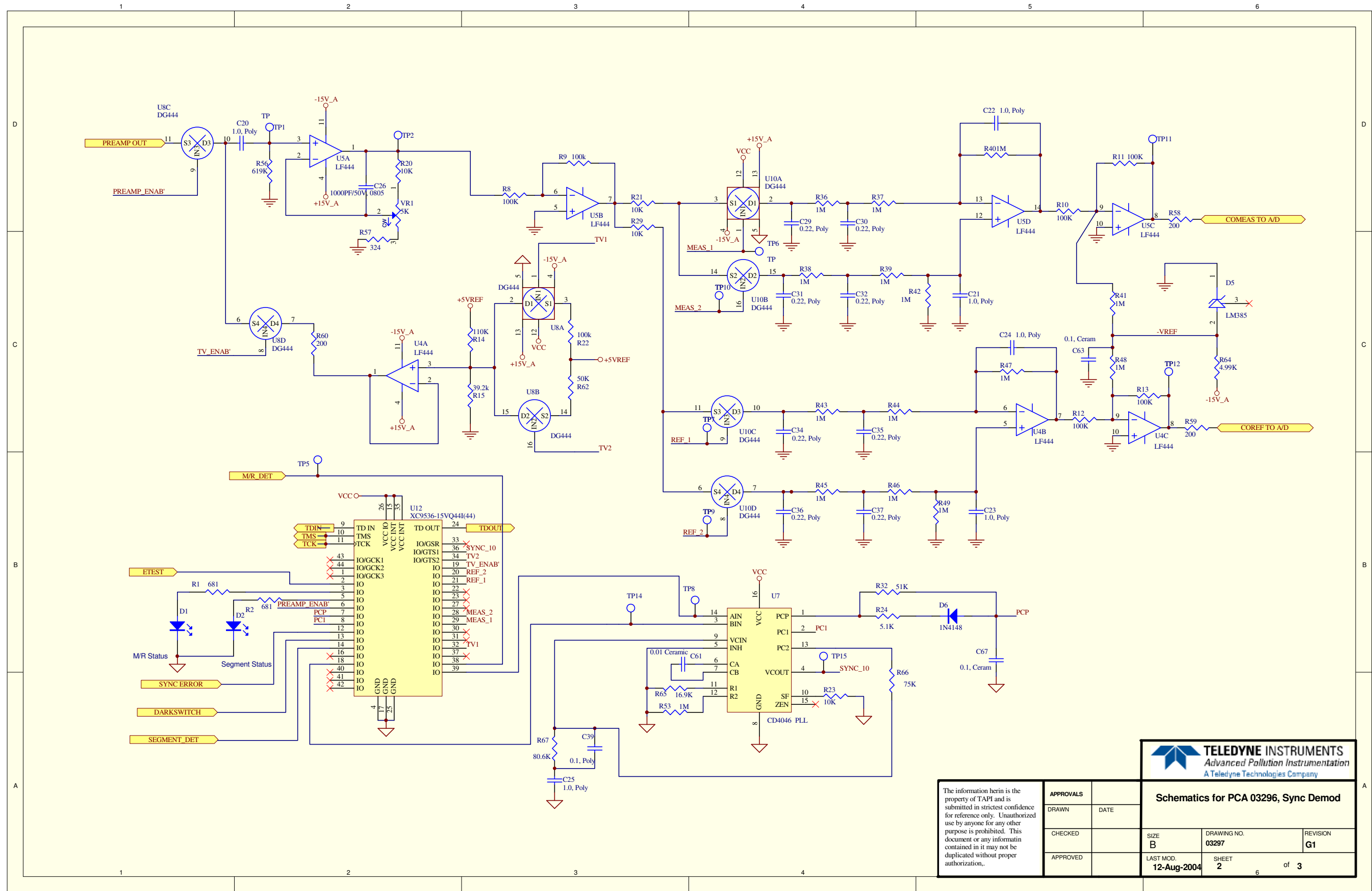
Note: 1. This schematics is for PCA 03296.
2. Use PCB 03295.



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APPROVALS	DATE
DRAWN	
CHECKED	
APPROVED	

Schematics for PCA 03296, Sync Demod		
SIZE B	DRAWING NO. 03297	REVISION G1
LAST MOD. 12-Aug-2004	SHEET 1	of 3



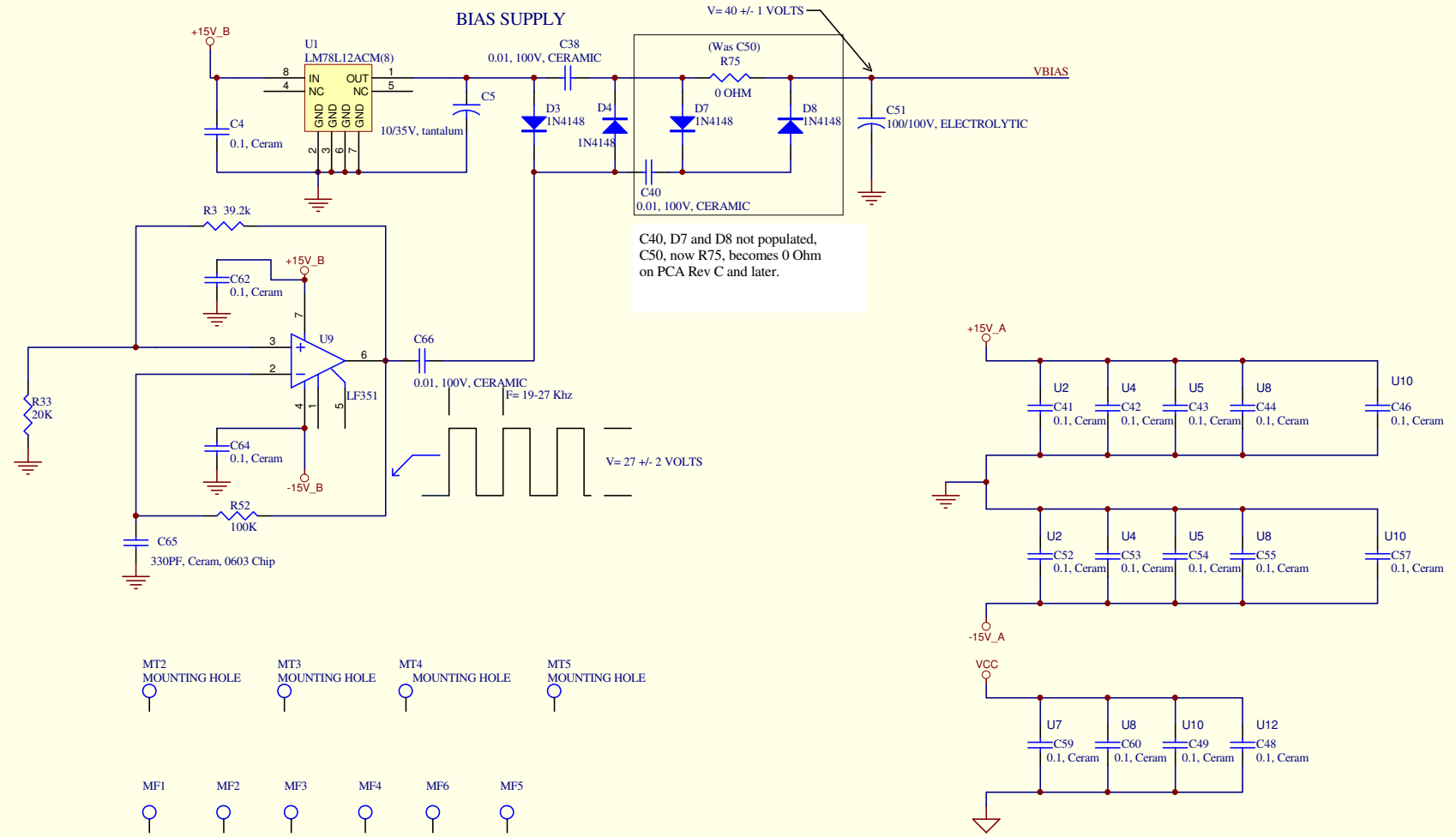
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APPROVALS	
DRAWN	DATE
CHECKED	
APPROVED	

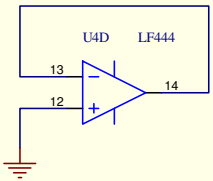
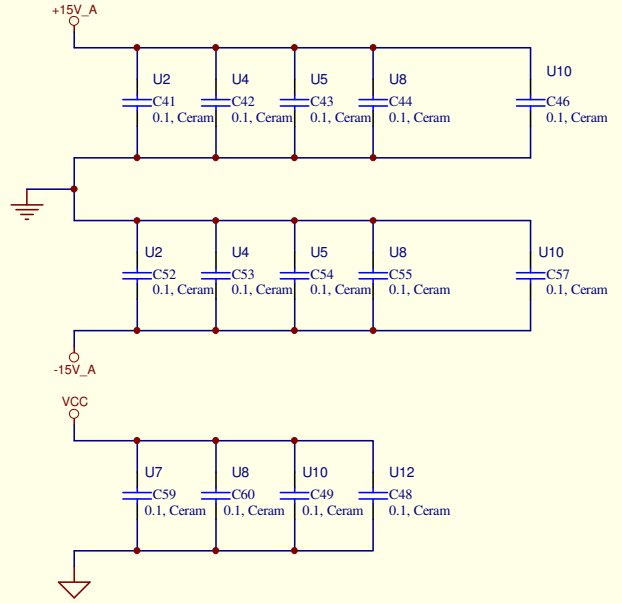
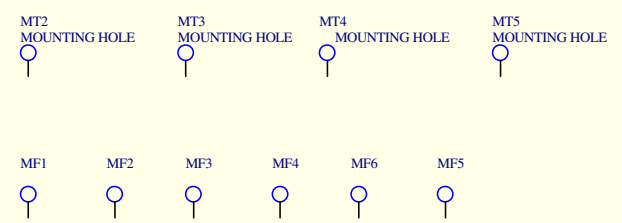
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Advanced Pollution Instrumentation
A Teledyne Technologies Company

Schematics for PCA 03296, Sync Demod

SIZE B	DRAWING NO. 03297	REVISION G1
LAST MOD. 12-Aug-2004	SHEET 2	of 3



C40, D7 and D8 not populated, C50, now R75, becomes 0 Ohm on PCA Rev C and later.



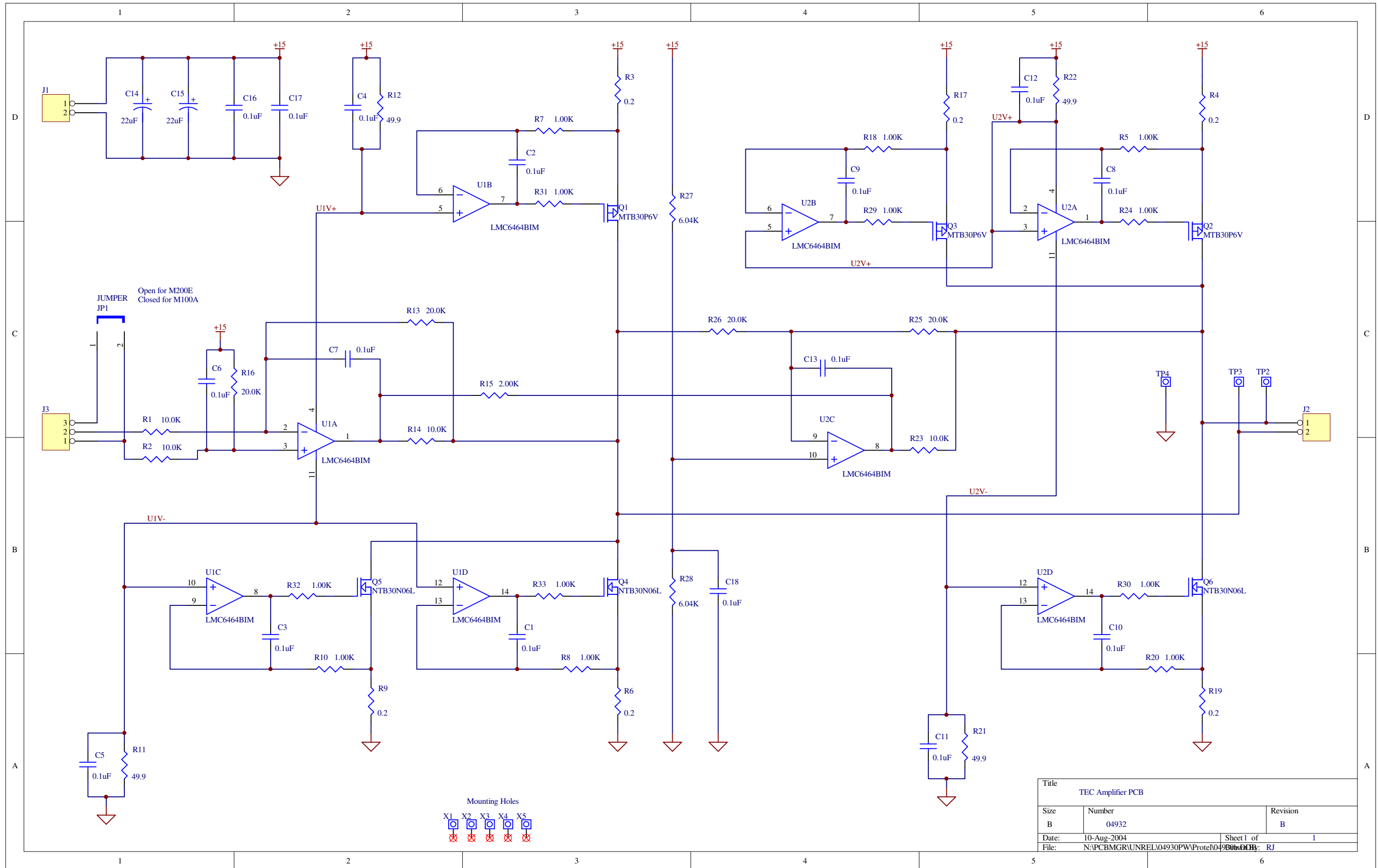
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APPROVALS	
DRAWN	DATE
CHECKED	
APPROVED	

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Advanced Pollution Instrumentation
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Schematics for PCA 03296, Sync Demod

SIZE B	DRAWING NO. 03297	REVISION G1
LAST MOD. 12-Aug-2004	SHEET 3	of 3



Title		
TEC Amplifier PCB		
Size	Number	Revision
B	04932	B
Date:	10-Aug-2004	Sheet 1 of 1
File:	N:\PCBMGR\UNREL\04930PWP\Protel04930.DDB: RJ	