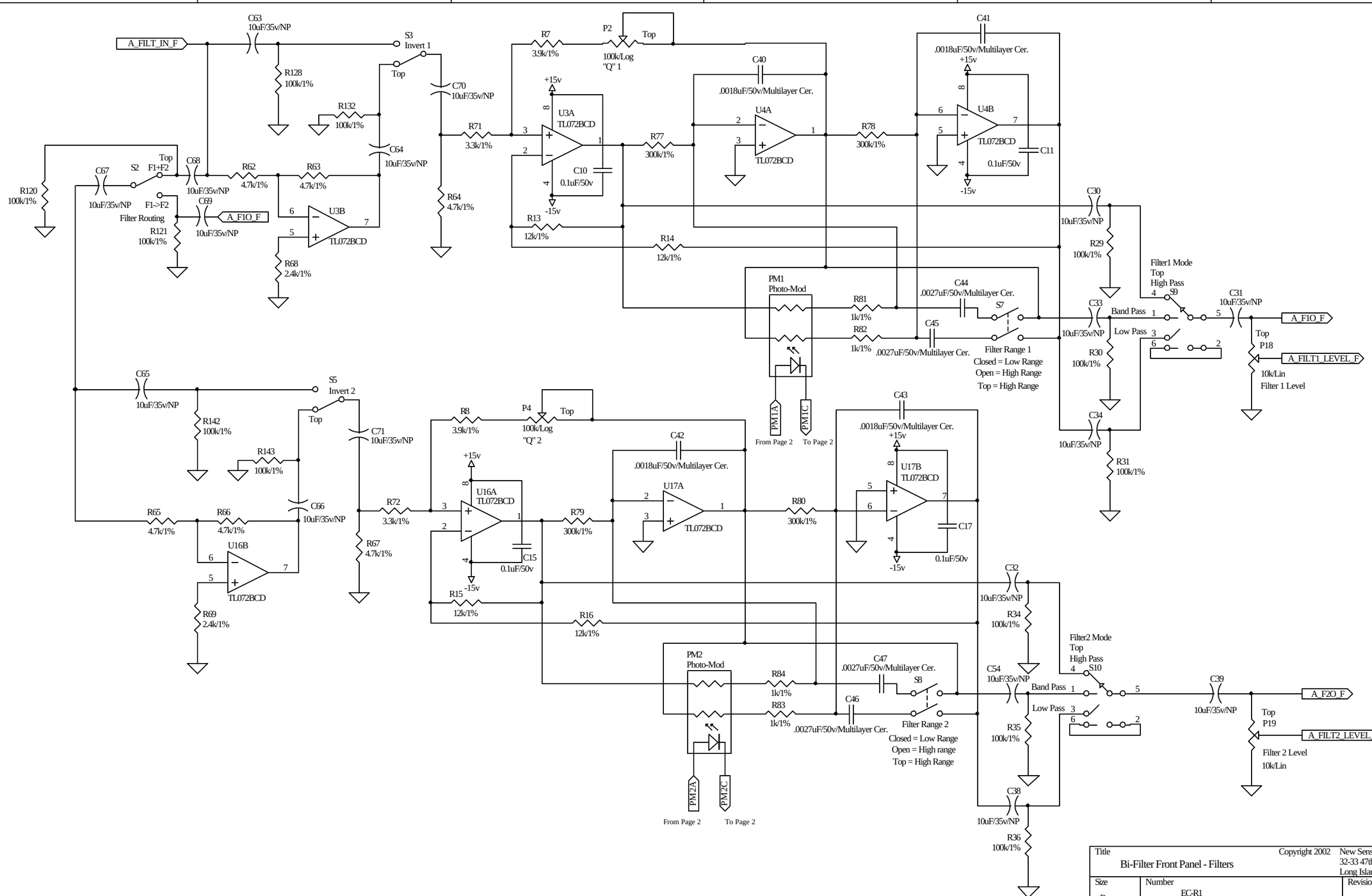
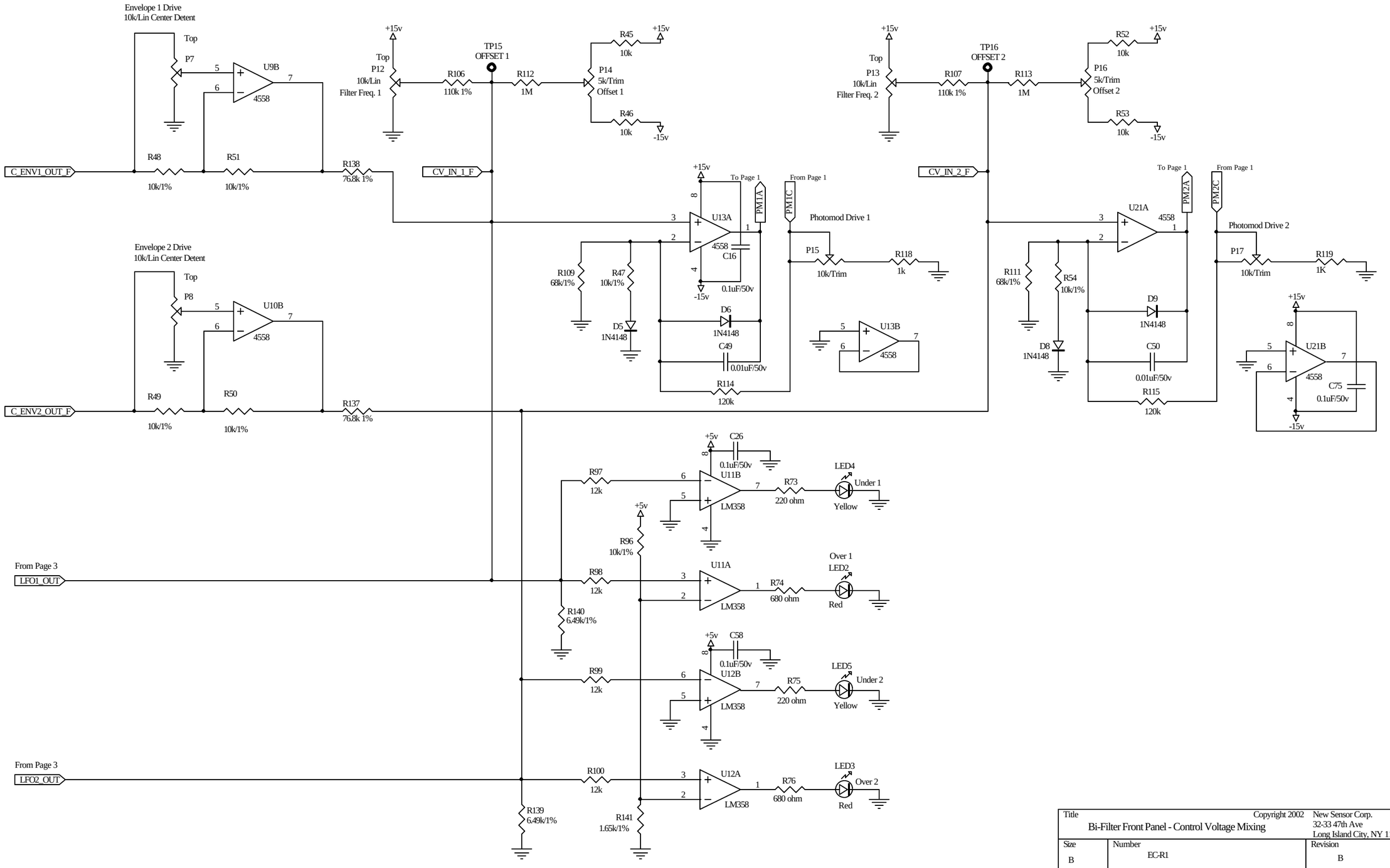
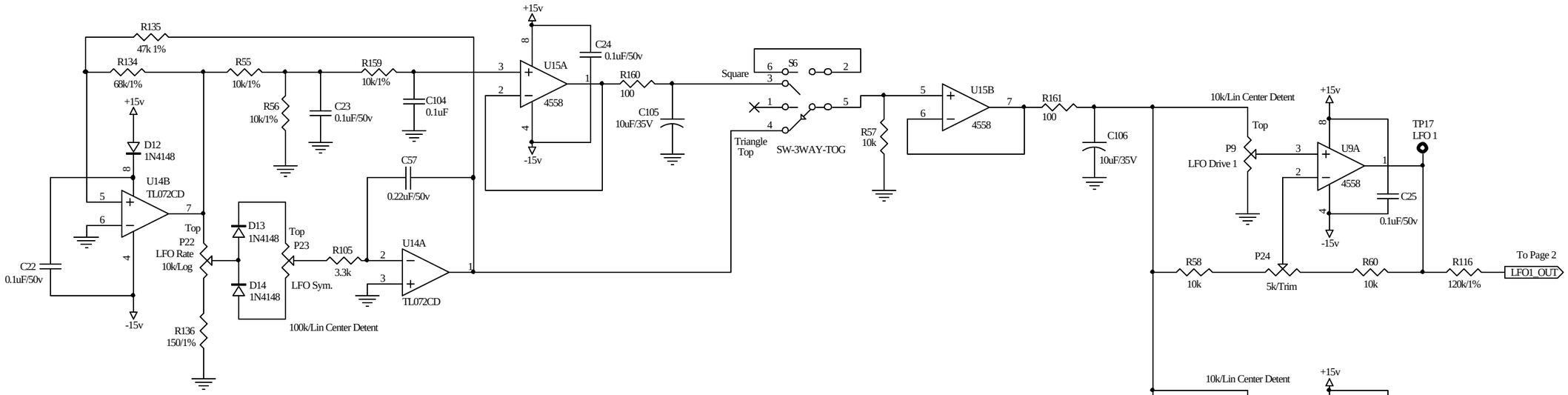
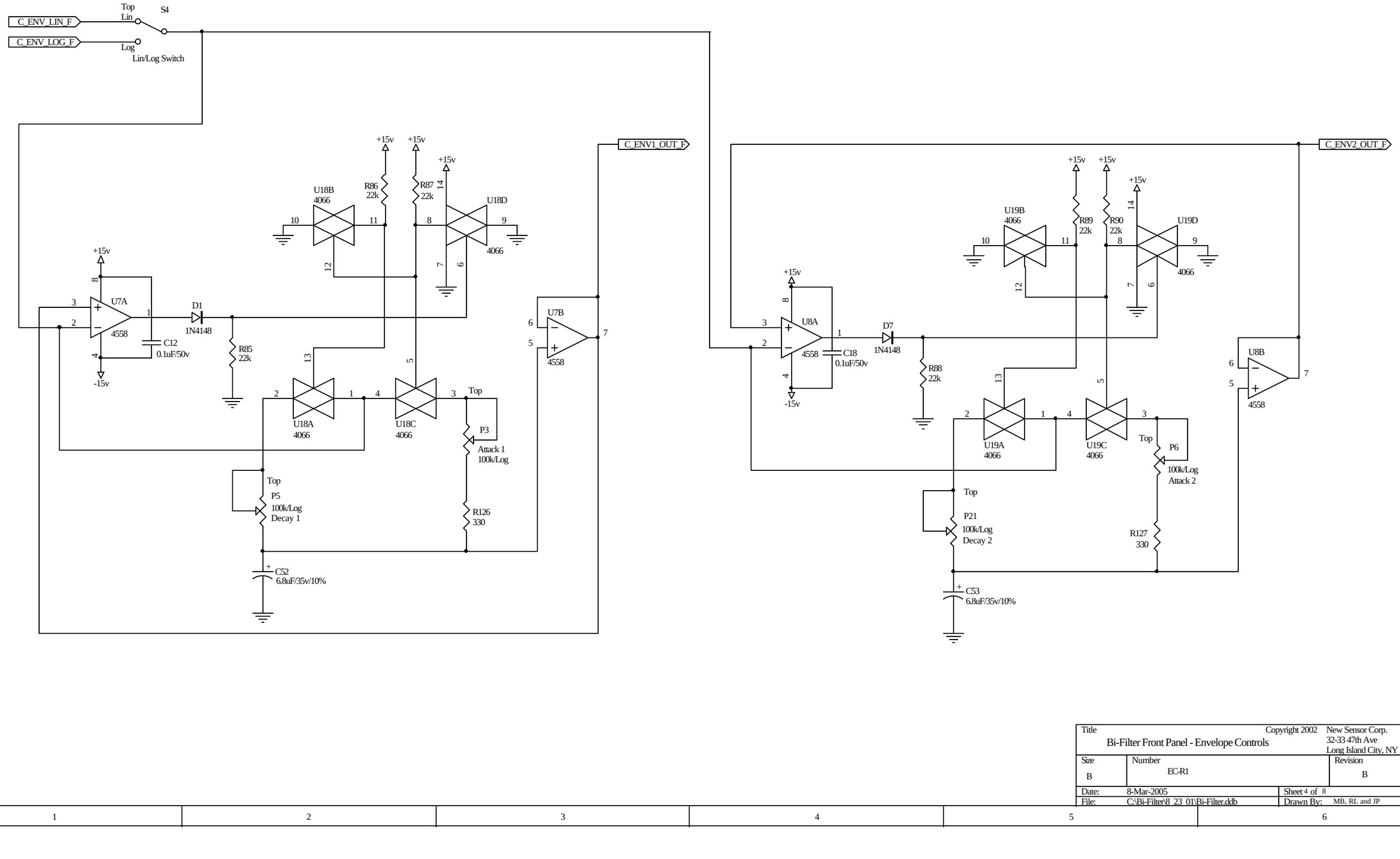

A_FILT_IN_F
C63 10uF/35v/NP
S3 Invert 1
Top
R128 100k/1%
R132 100k/1%
C70 10uF/35v/NP
C64 10uF/35v/NP
R7 3.9k/1%
P2 Top
100k/Log "Q" 1
R71 3.3k/1%
U3A TL072BCD
C10 0.1uF/50v
R77 300k/1%
C40 .0018uF/50v/Multilayer Cer.
U4A TL072BCD
R78 300k/1%
C41 .0018uF/50v/Multilayer Cer.
U4B TL072BCD
C11 0.1uF/50v
+15v
-15v
R64 4.7k/1%
R120 100k/1%
C67 10uF/35v/NP
S2 F1+F2
F1->F2
Filter Routing
R121 100k/1%
C68 10uF/35v/NP
R62 4.7k/1%
R63 4.7k/1%
C69 10uF/35v/NP
A_F1O_F
U3B TL072BCD
R68 2.4k/1%
R13 12k/1%
R14 12k/1%
C30 10uF/35v/NP
R29 100k/1%
PM1 Photo-Mod
R81 1k/1%
R82 1k/1%
C44 .0027uF/50v/Multilayer Cer.
C45 .0027uF/50v/Multilayer Cer.
S7
Filter Range 1
Closed = Low Range
Open = High Range
Top = High Range
PM1A
PM1C
From Page 2
To Page 2
Filter1 Mode
Top
High Pass
S9
Band Pass
Low Pass
C31 10uF/35v/NP
A_F1O_F
Top
P18
A_FILT1_LEVEL_F
10k/Lin
Filter 1 Level
C33 10uF/35v/NP
R30 100k/1%
C34 10uF/35v/NP
R31 100k/1%
C65 10uF/35v/NP
S5 Invert 2
Top
R142 100k/1%
R143 100k/1%
C71 10uF/35v/NP
C66 10uF/35v/NP
R65 4.7k/1%
R66 4.7k/1%
U16B TL072BCD
R69 2.4k/1%
R72 3.3k/1%
R67 4.7k/1%
R8 3.9k/1%
P4 Top
100k/Log "Q" 2
U16A TL072BCD
C15 0.1uF/50v
R15 12k/1%
R16 12k/1%
R79 300k/1%
C42 .0018uF/50v/Multilayer Cer.
U17A TL072BCD
R80 300k/1%
C43 .0018uF/50v/Multilayer Cer.
U17B TL072BCD
C17 0.1uF/50v
PM2 Photo-Mod
R84 1k/1%
R83 1k/1%
C47 .0027uF/50v/Multilayer Cer.
C46 .0027uF/50v/Multilayer Cer.
S8
Filter Range 2
Closed = Low Range
Open = High range
Top = High Range
PM2A
PM2C
From Page 2
To Page 2
C32 10uF/35v/NP
R34 100k/1%
C54 10uF/35v/NP
R35 100k/1%
C38 10uF/35v/NP
R36 100k/1%
Filter2 Mode
Top
High Pass
S10
Band Pass
Low Pass
C39 10uF/35v/NP
A_F2O_F
Top
P19
A_FILT2_LEVEL_F
Filter 2 Level
10k/Lin
Title
Bi-Filter Front Panel - Filters
Copyright 2002 New Sensor Corp.
32-33 47th Ave
Long Island City, NY 11101
Size B
Number EC-R1
Revision B
Date: 8-Mar-2005
File: C:\Bi-Filter\8_23_01\Bi-Filter.ddb
Sheet 1 of 8
Drawn By: MB, RL and JP



Title	Bi-Filter Front Panel - Control Voltage Mixing	Copyright 2002	New Sensor Corp. 32-33 47th Ave Long Island City, NY 11101
Size: B	Number: EC-R1		Revision: B
Date: 8-Mar-2005		Sheet 2 of 8	
File: C:\Bi-Filter\8_23_01\Bi-Filter.ddb		Drawn By: MB, RL and JP	



Title: Bi-Filter Front Panel - LFO	Copyright 2002	New Sensor Corp. 32-33 47th Ave Long Island City, NY 11101
Size: B	Number: EC-R1	Revision: B
Date: 8-Mar-2005	Sheet 3 of 8	
File: C:\Bi-Filter\8_23_01\Bi-Filter.ddb	Drawn By: MB, RL and JP	



Title: Bi-Filter Front Panel - Envelope Controls	Copyright 2002	New Sensor Corp. 32-33 47th Ave Long Island City, NY 11101
Size: B	Number: EC-R1	Revision: B
Date: 8-Mar-2005		Sheet 4 of 8
File: C:\Bi-Filter\8_23_01\Bi-Filter.ddb		Drawn By: MB, RL and JP

TP19 -15V
TP20 GND
TP21 GNDA
TP22 +5V
TP23 +15V
TP24 -15V
TP25 GND
TP26 GNDA
TP27 +15V

Pins 1 & 3 on CON1 are connected to

on the Back PCB.

CON3
26 HEADER
A_F1O_F
A_BUF_IN_F
A_BOOST_OUT_F
A_ENV_DRIVE_F
CV_IN_1_F
C_ENV1_OUT_F
C_ENV_LOG_F
C_ENV_LIN_F
C_ENVOVER_LED_F

CON4
26 HEADER
A_FILT_IN_F
A_DRY_LEVEL_F
A_FILT2_LEVEL_F
A_FILT1_LEVEL_F
A_F2O_F
C_FXLOOP_LED_F
C_BYP_LED_F
C_FXLOOP_SW_F
C_BYP_SW_F
CV_IN_2_F
C_ENV2_OUT_F

C99 6.8uF/35V
C100 6.8uF/35V
C101 6.8uF/35V
C102 6.8uF/35V
C103 6.8uF/35V
C108 6.8uF/35V

C27 10uF/35v/NP
R11 2k/1%
R10 2k/1%
P1 100k/Log Drive
R12 12k/1%
U20A TL072CD
S1 Boost / Top
A_BOOST_OUT_F
A_ENV_DRIVE_F

P20 10k/Linear Dry Level
A_DRY_LEVEL_F

U20B TL072CD
C37 0.1uF/50v

S11 Effect Bypass Switch
TOP Active / Bypass
C_BYP_SW_F

S12 Effects Loop Active
TOP Active / Bypass
C_FXLOOP_SW_F

C_ENVOVER_LED_F
R104 3.3k
LED1 Red Over Drive

LED7 Green Effect Active
R133 470
C_BYP_LED_F

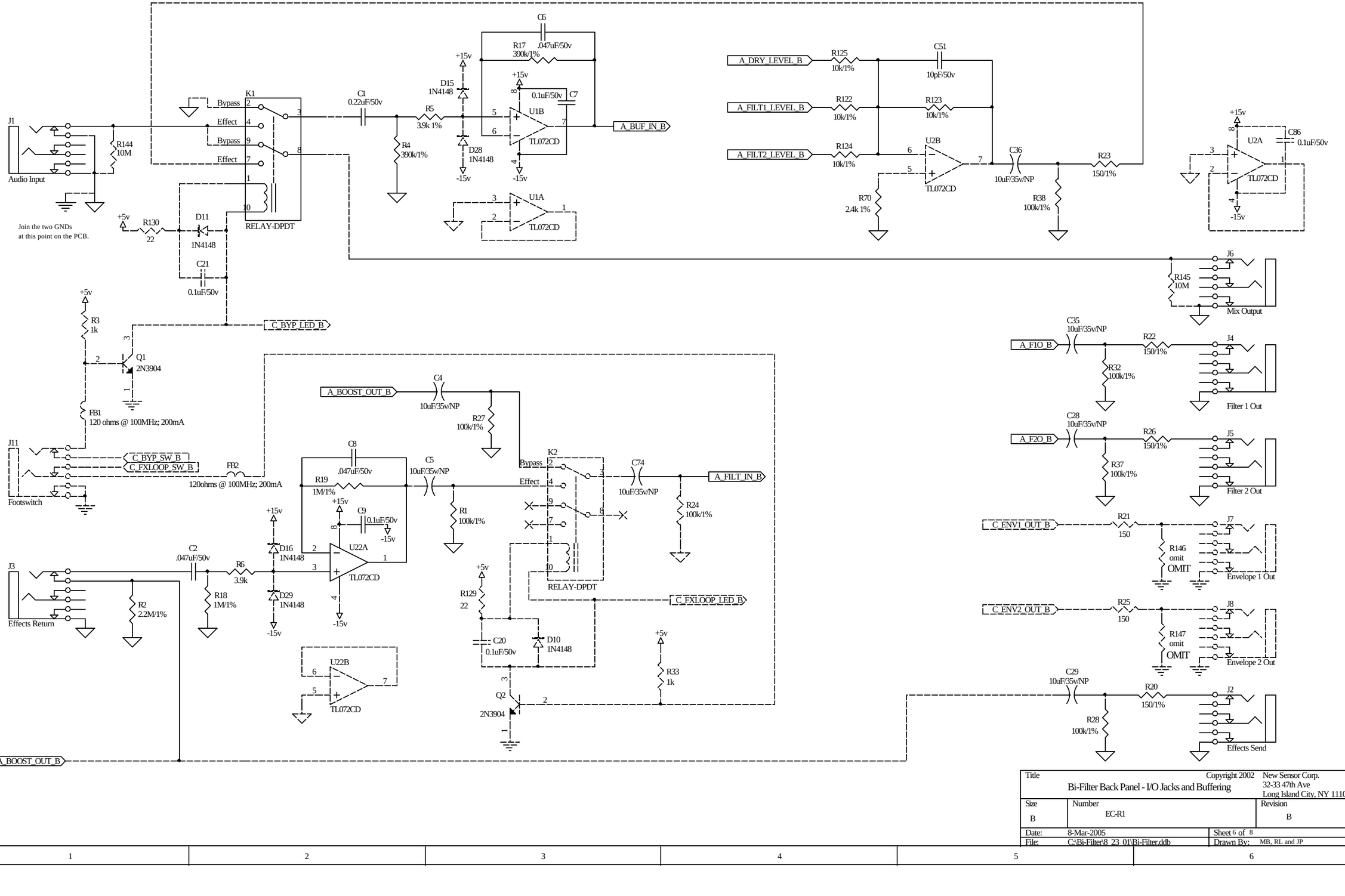
LED6 Green Effects Loop Active
R131 470
C_FXLOOP_LED_F

R9 3.9k
LED8 Blue Power

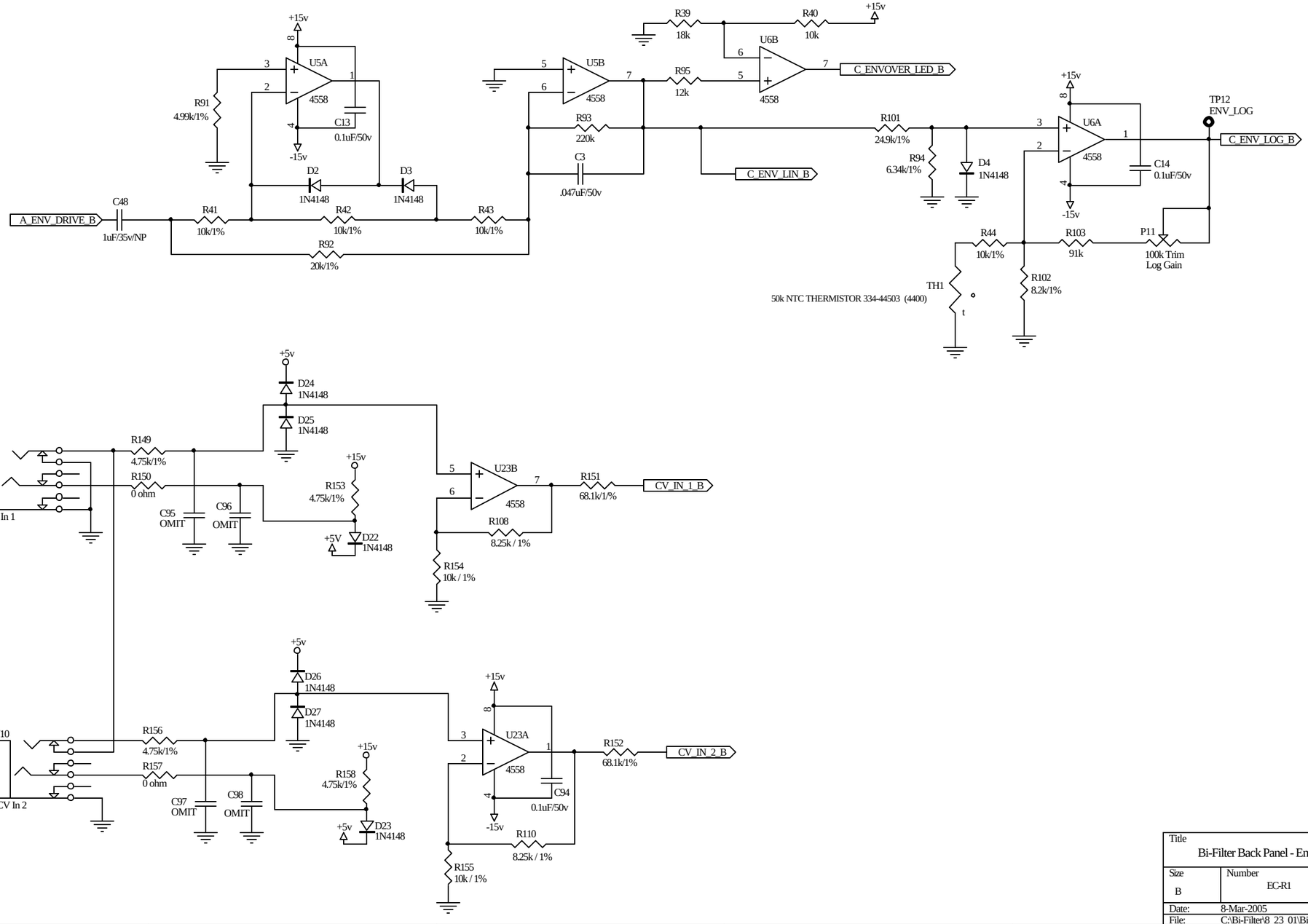
Copyright 2002 New Sensor Corp.

Title: Bi-Filter Front Panel - Interface and Misc. Front Panel Components		
Size: B	Number: EC-R1	Revision: B
Date: 8-Mar-2005	Sheet 5 of 8	
File: C:\Bi-Filter\8_23_01\Bi-Filter.ddb	Drawn By: MB, RL and JP	

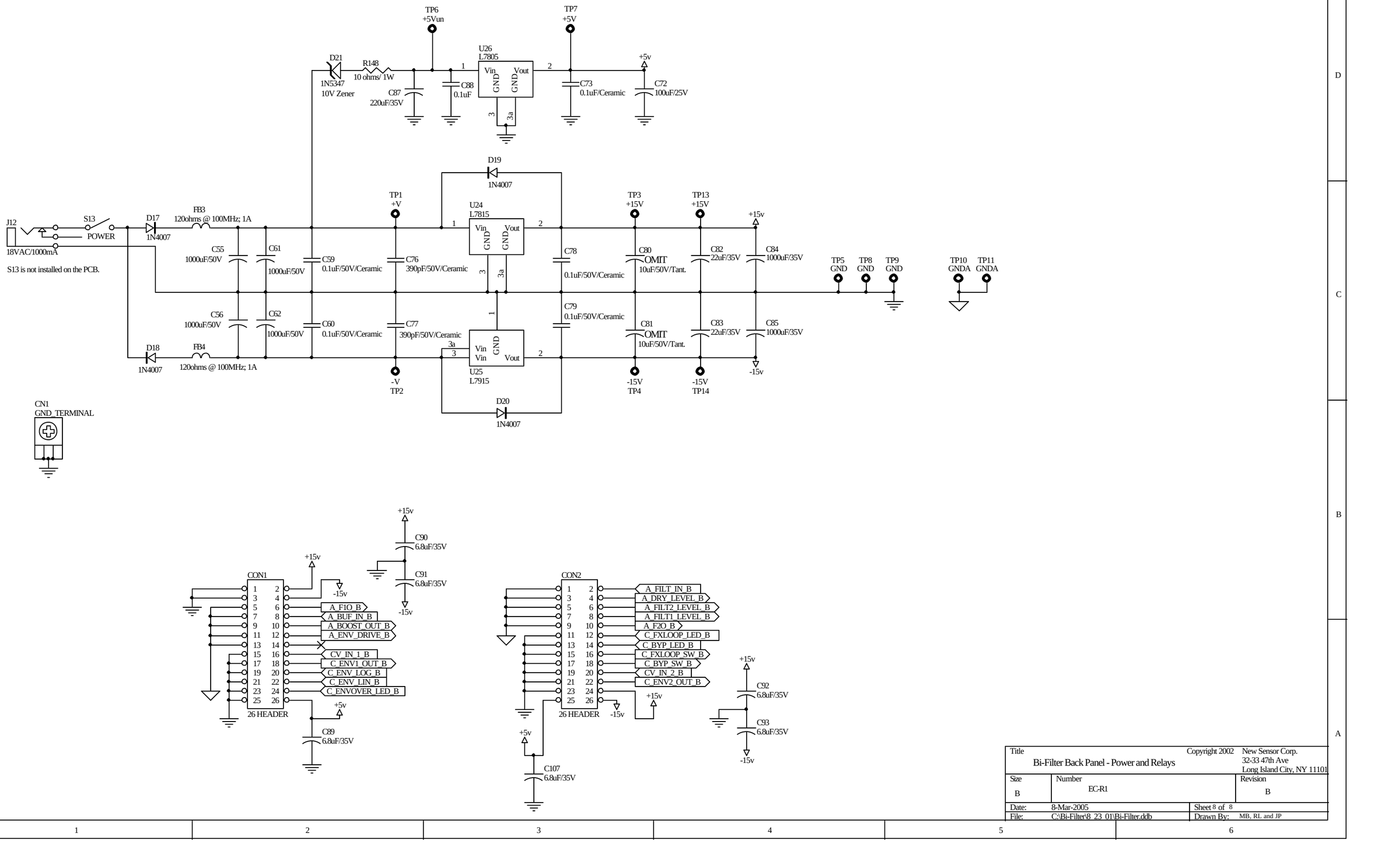
32-33 47th Ave
Long Island City, NY 11101



Title: Bi-Filter Back Panel - I/O Jacks and Buffering	Copyright 2002	New Sensor Corp. 32-33 47th Ave Long Island City, NY 11101
Size: B	Number: EC-R1	Revision: B
Date: 8-Mar-2005	Sheet 6 of 8	
File: C:\Bi-Filter\8_23_01\Bi-Filter.ddb	Drawn By: MB, RL and JP	



Title: Bi-Filter Back Panel - Envelope	Copyright 2002	New Sensor Corp. 32-33 47th Ave Long Island City, NY 11101
Size: B	Number: EC-R1	Revision: B
Date: 8-Mar-2005		Sheet 7 of 8
File: C:\Bi-Filter\8_23_01\Bi-Filter.ddb		Drawn By: MB, RL and JP



Title: Bi-Filter Back Panel - Power and Relays		Copyright 2002	New Sensor Corp. 32-33 47th Ave Long Island City, NY 11101
Size: B	Number: EC-R1		Revision: B
Date: 8-Mar-2005		Sheet 8 of 8	
File: C:\Bi-Filter\8_23_01\Bi-Filter.ddb		Drawn By: MB, RL and JP	