

JOHANNUS

SCHEMATTC DIAGRAMS

S W E E L I N C K I I I

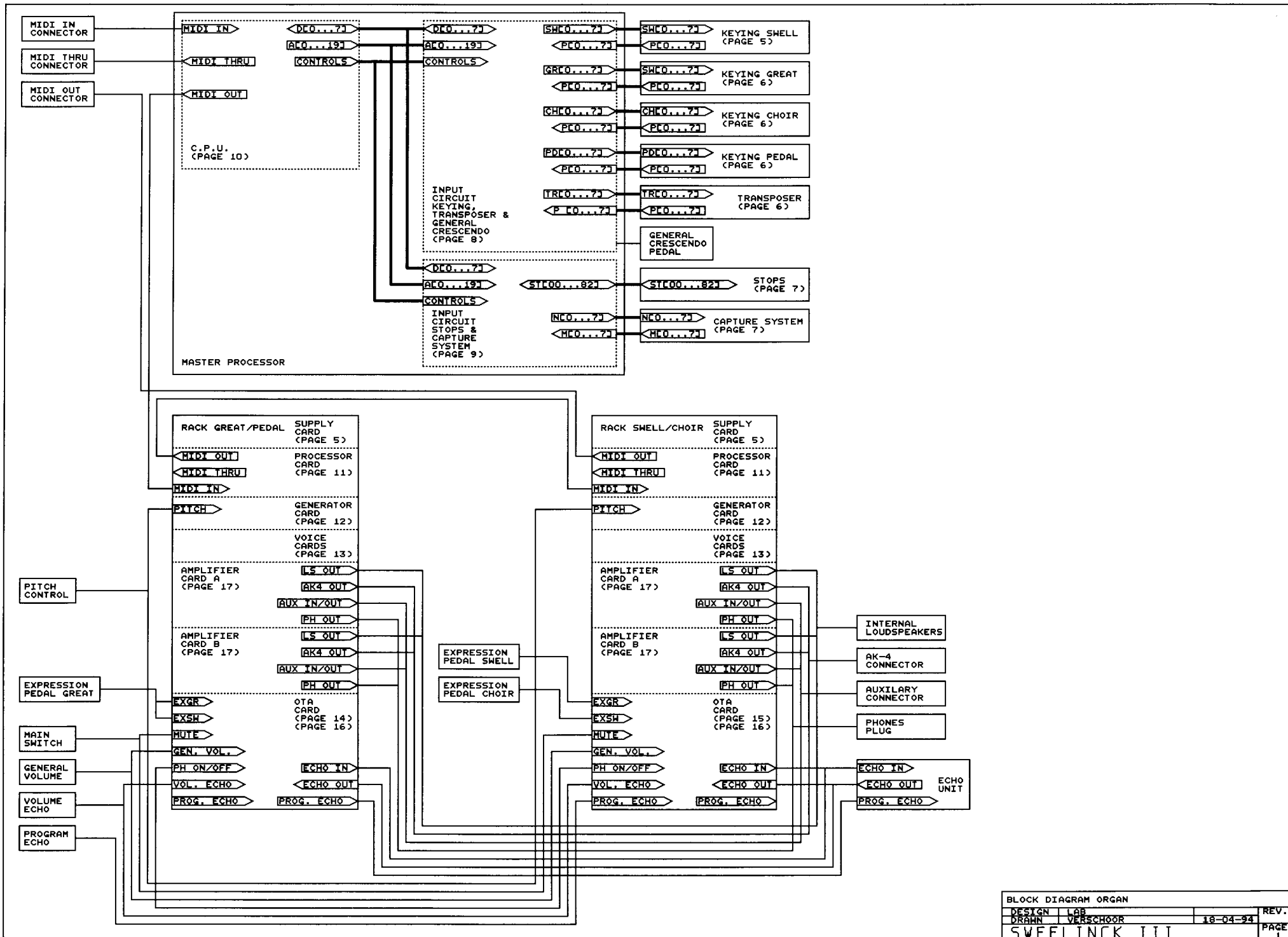
ALTERATIONS RESERVED

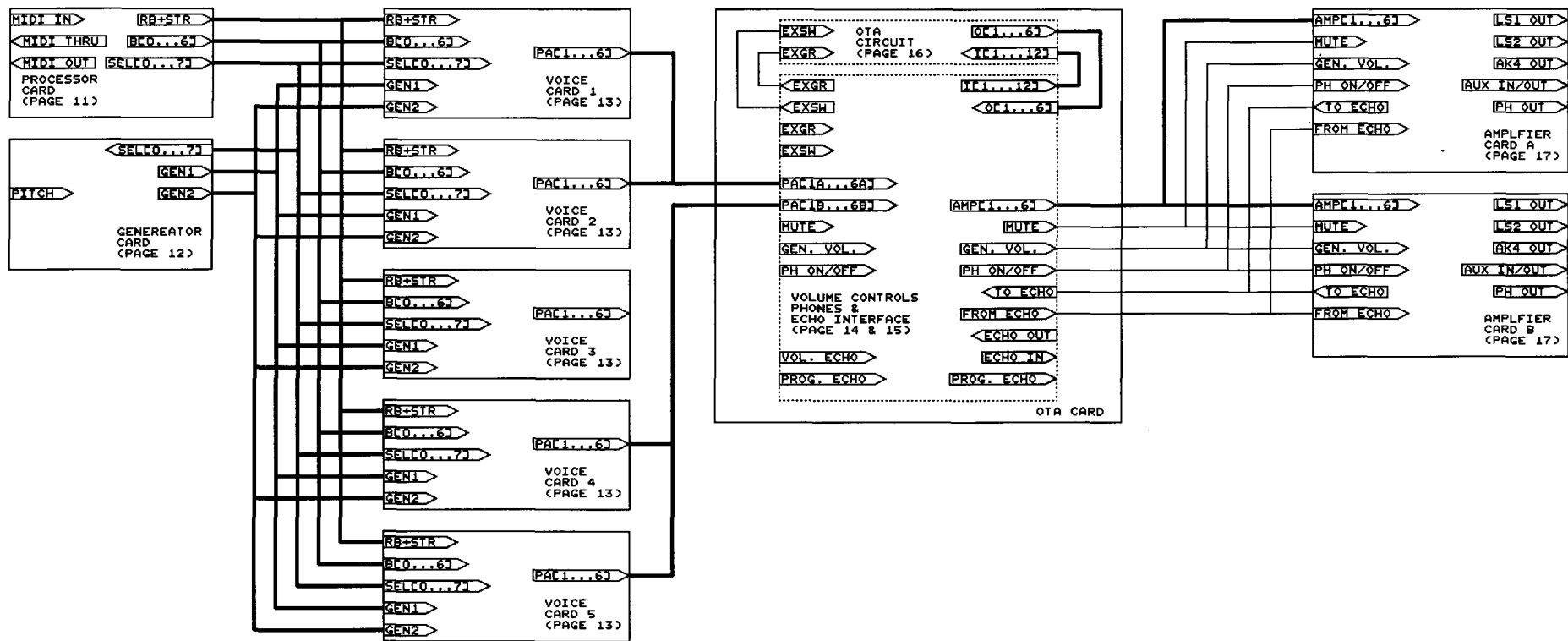
JOHANNUS Orgelbouw b.v.

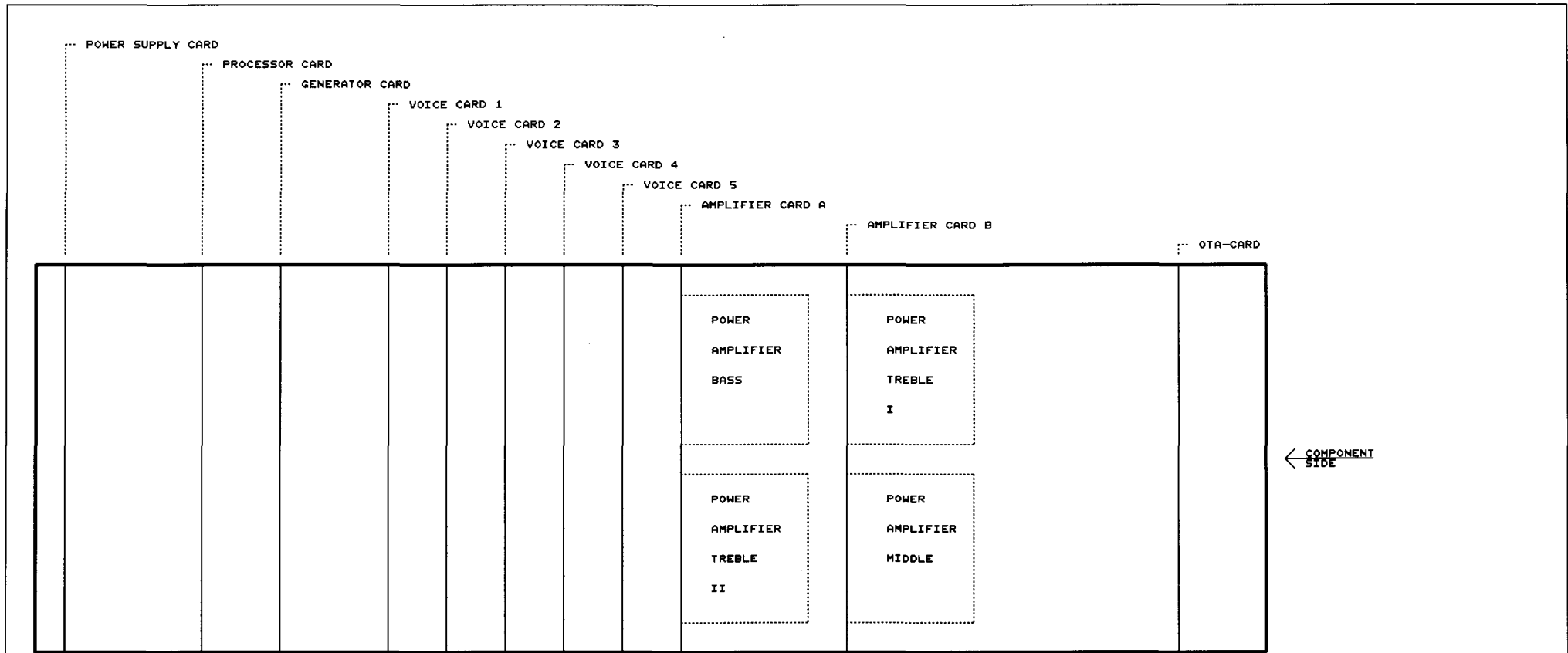
Morsestraat 28 - 6716 AH Ede - Tel. (08380) 37403 - Fax (08380) 22238

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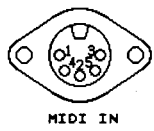
1. BLOCK DIAGRAM ORGAN
2. BLOCK DIAGRAM RACK
3. POSITION DIAGRAM CARDS (TOPVIEW) & EXTERNAL CONNECTIONS (mounted on the rearside of the organ)
4. PINNING BUS CARD CONNECTORS
5. TRANSFORMER CONNECTIONS & POWER SUPPLY
6. SCANNING KEYING & TRANSPOSER
7. STOP-BANK & SWITCH-BANK CAPTURE SYSTEM
8. INPUT CIRCUIT SCANNING KEYING, TRANSPOSER & GENERAL CRESCENDO CIRCUIT (master processor)
9. INPUT CIRCUIT STOPS & CAPTURE SYSTEM (master processor)
10. C.P.U. (master processor)
11. PROCESSOR CARD (2x)
12. GENERATOR CARD (2x)
13. VOICE CARD (10x)
14. VOLUMECONTROLS; HEADPHONES CONNECTIONS & ECHO INTERFACE (ota card pedal/great)
15. VOLUMECONTROLS; HEADPHONES CONNECTIONS & ECHO INTERFACE (ota card choir/swell)
16. EXPRESSION PEDAL CIRCUIT (2x) (ota card)
17. AMPLIFIER CARD (4x)
18. POSITION DIAGRAM ADJUSTMENTS
INTERNAL POTENTIOMETERS



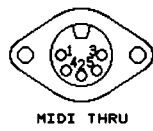




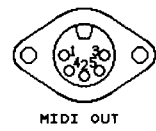
- 1. NOT CONNECTED
- 2. NOT CONNECTED
- 3. NOT CONNECTED
- 4. +5V MIDI IN
- 5. MIDI IN



- 1. NOT CONNECTED
- 2. NOT CONNECTED
- 3. NOT CONNECTED
- 4. +5V MIDI THRU
- 5. MIDI THRU

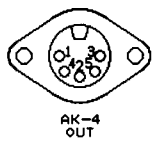


- 1. NOT CONNECTED
- 2. NOT CONNECTED
- 3. NOT CONNECTED
- 4. +5V MIDI OUT
- 5. MIDI OUT

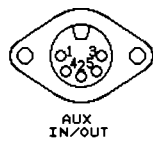


SOLDERING SIDE VIEW

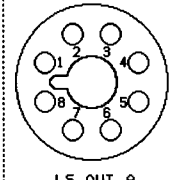
- 1. AK-4 OUT CHANNEL A
- 2. GROUND
- 3. NOT CONNECTED
- 4. AK-4 OUT CHANNEL B
- 5. NOT CONNECTED



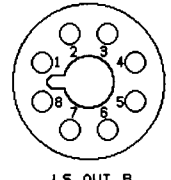
- 1. AUX OUT CHANNEL A
- 2. GROUND
- 3. AUX IN CHANNEL A
- 4. AUX OUT CHANNEL B
- 5. AUX IN CHANNEL B



- 1. - BASS GREAT/PEDAL AMPLIFIER
- 2. + BASS GREAT/PEDAL AMPLIFIER
- 3. - MIDDLE GREAT/PEDAL AMPLIFIER
- 4. + MIDDLE GREAT/PEDAL AMPLIFIER
- 5. - TREBLE I PEDAL/GREAT AMPLIFIER
- 6. + TREBLE I PEDAL/GREAT AMPLIFIER
- 7. - TREBLE II GREAT/PEDAL AMPLIFIER
- 8. + TREBLE II GREAT/PEDAL AMPLIFIER

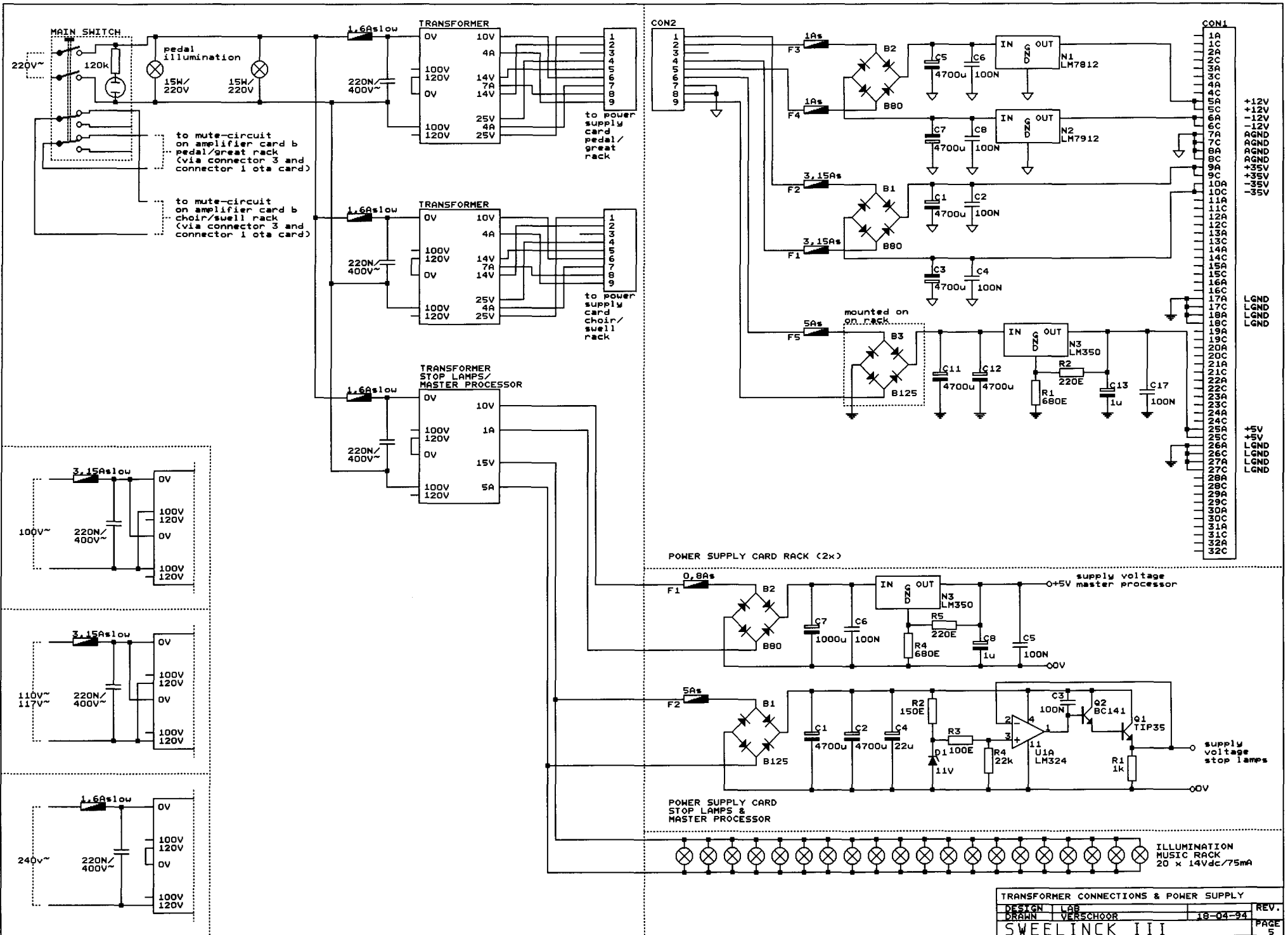


- 1. - BASS SWELL/CHOIR AMPLIFIER
- 2. + BASS SWELL/CHOIR AMPLIFIER
- 3. - MIDDLE SWELL/CHOIR AMPLIFIER
- 4. + MIDDLE SWELL/CHOIR AMPLIFIER
- 5. - TREBLE I SWELL/CHOIR AMPLIFIER
- 6. + TREBLE I SWELL/CHOIR AMPLIFIER
- 7. - TREBLE II SWELL/CHOIR AMPLIFIER
- 8. + TREBLE II SWELL/CHOIR AMPLIFIER

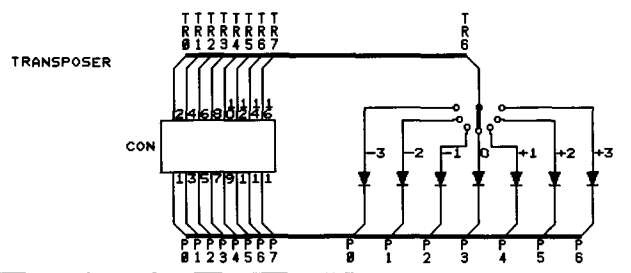
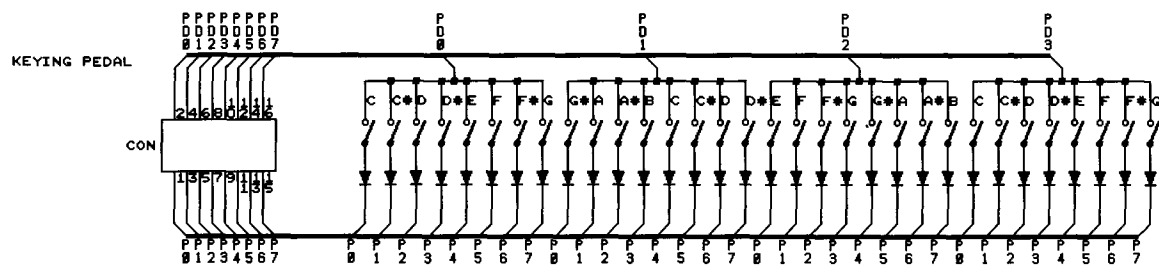
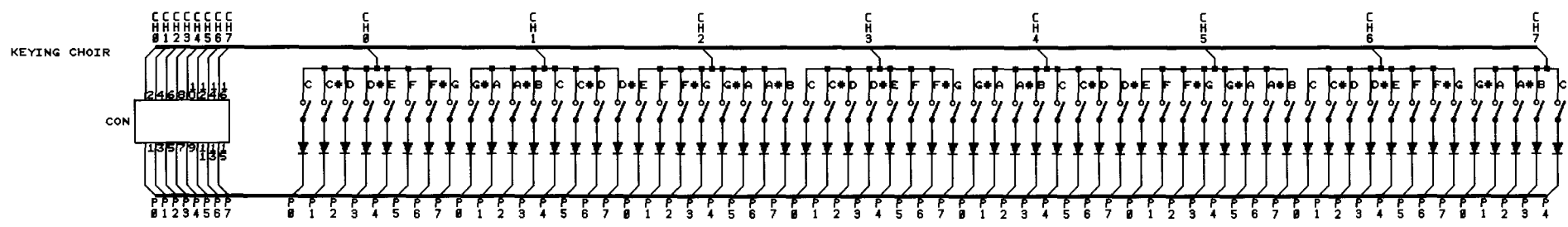
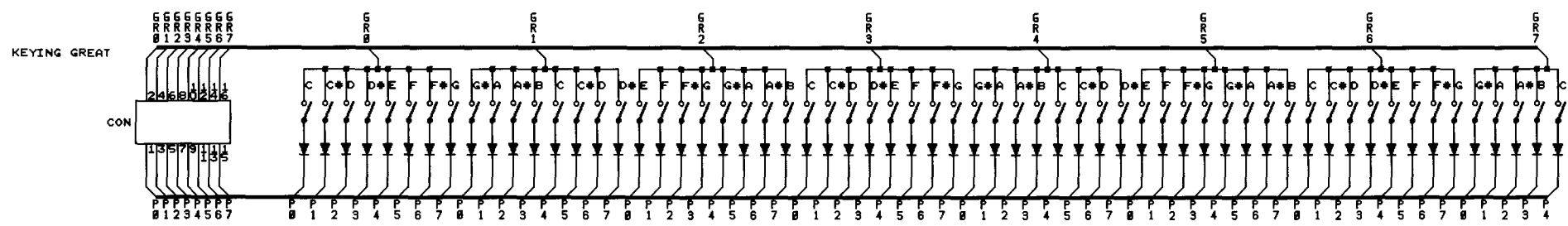
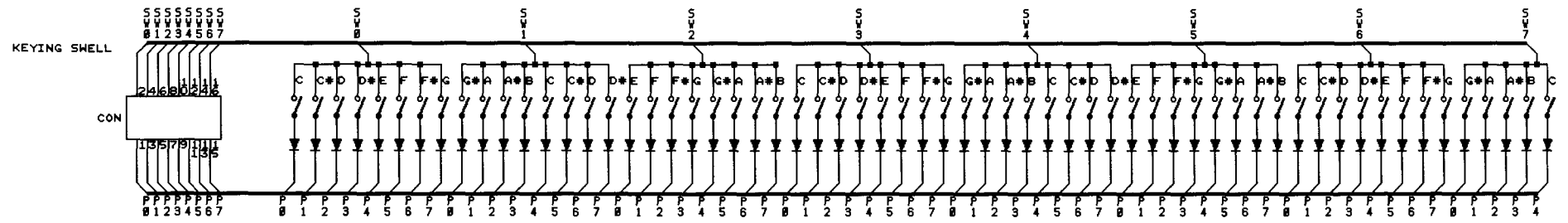


(OPTIONAL)

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1-2</p>	PA1B	015	PA2B		PA3B	020	PA4B		PA5B	030	PA6B		040				+12V	+12V			-12V	-12V			AGND	AGND			AGND	AGND			+35V	+35V			-35V	-35V			010				012				013				014				015				016				017				018				019				020				B6				B4				B2				B0				025				026				027				028				029				030				031				032				032c				<p>CON6-8</p> <table border="0"> <tr><td>PA1A</td><td>015</td><td>PA2A</td><td></td></tr> <tr><td>PA3A</td><td>020</td><td>PA4A</td><td></td></tr> <tr><td>PA5A</td><td>030</td><td>PA6A</td><td></td></tr> <tr><td>040</td><td></td><td>PA7A</td><td></td></tr> <tr><td>+12V</td><td>+12V</td><td></td><td></td></tr> <tr><td>-12V</td><td>-12V</td><td></td><td></td></tr> <tr><td>AGND</td><td>AGND</td><td></td><td></td></tr> <tr><td>AGND</td><td>AGND</td><td></td><td></td></tr> <tr><td>+35V</td><td>+35V</td><td></td><td></td></tr> <tr><td>-35V</td><td>-35V</td><td></td><td></td></tr> <tr><td>010</td><td></td><td></td><td></td></tr> <tr><td>012</td><td></td><td></td><td></td></tr> 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<tr><td>032c</td><td></td><td></td><td></td></tr> </table> <p>VOICE CARD 3-5</p>	PA1A	015	PA2A		PA3A	020	PA4A		PA5A	030	PA6A		040		PA7A		+12V	+12V			-12V	-12V			AGND	AGND			AGND	AGND			+35V	+35V			-35V	-35V			010				012				013				014				015				016				017				018				019				020				B6				B4				B2				B0				025				026				027				028				029				030				031				032				032c				<p>CON9-10</p> <table border="0"> <tr><td>AMP1</td><td>015</td><td>AMP2</td><td></td></tr> <tr><td>AMP3</td><td>020</td><td>AMP4</td><td></td></tr> <tr><td>TO ECHO</td><td>030</td><td>FROM ECHO B</td><td></td></tr> <tr><td>040</td><td></td><td>FROM ECHO A</td><td></td></tr> <tr><td>+12V</td><td>+12V</td><td></td><td></td></tr> <tr><td>-12V</td><td>-12V</td><td></td><td></td></tr> <tr><td>AGND</td><td>AGND</td><td></td><td></td></tr> <tr><td>AGND</td><td>AGND</td><td></td><td></td></tr> <tr><td>+35V</td><td>+35V</td><td></td><td></td></tr> <tr><td>-35V</td><td>-35V</td><td></td><td></td></tr> 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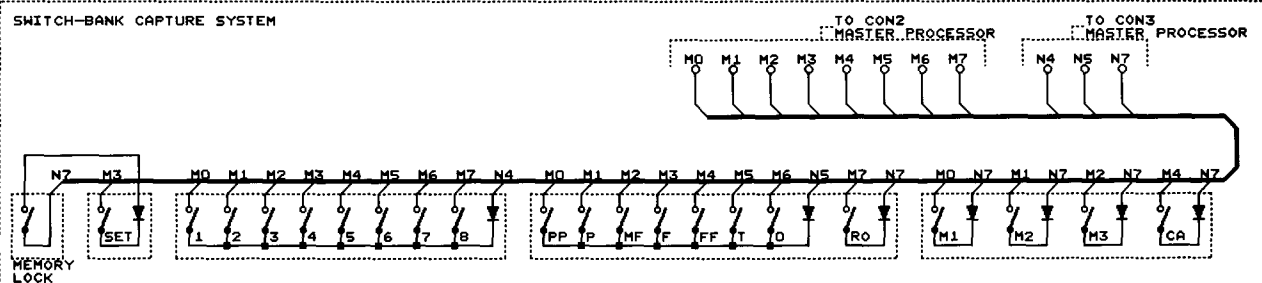
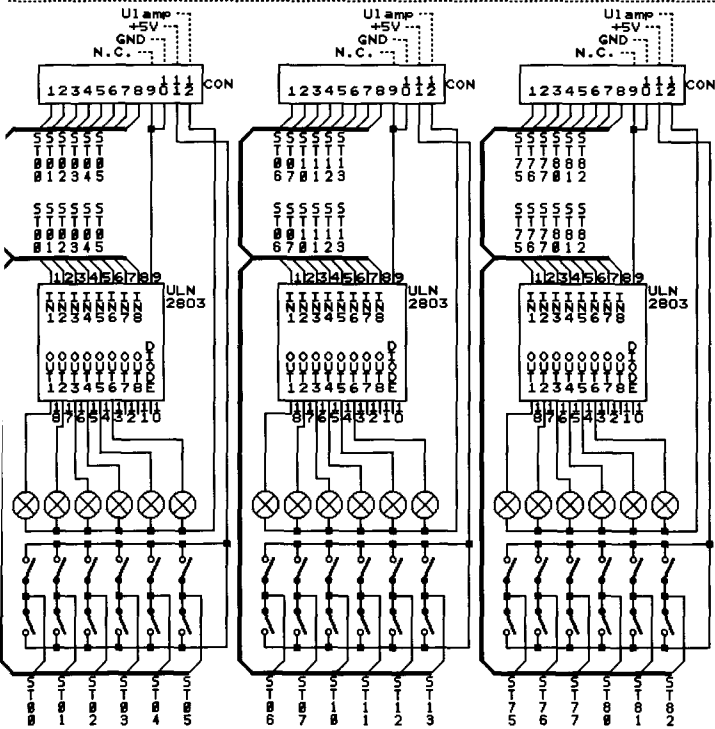
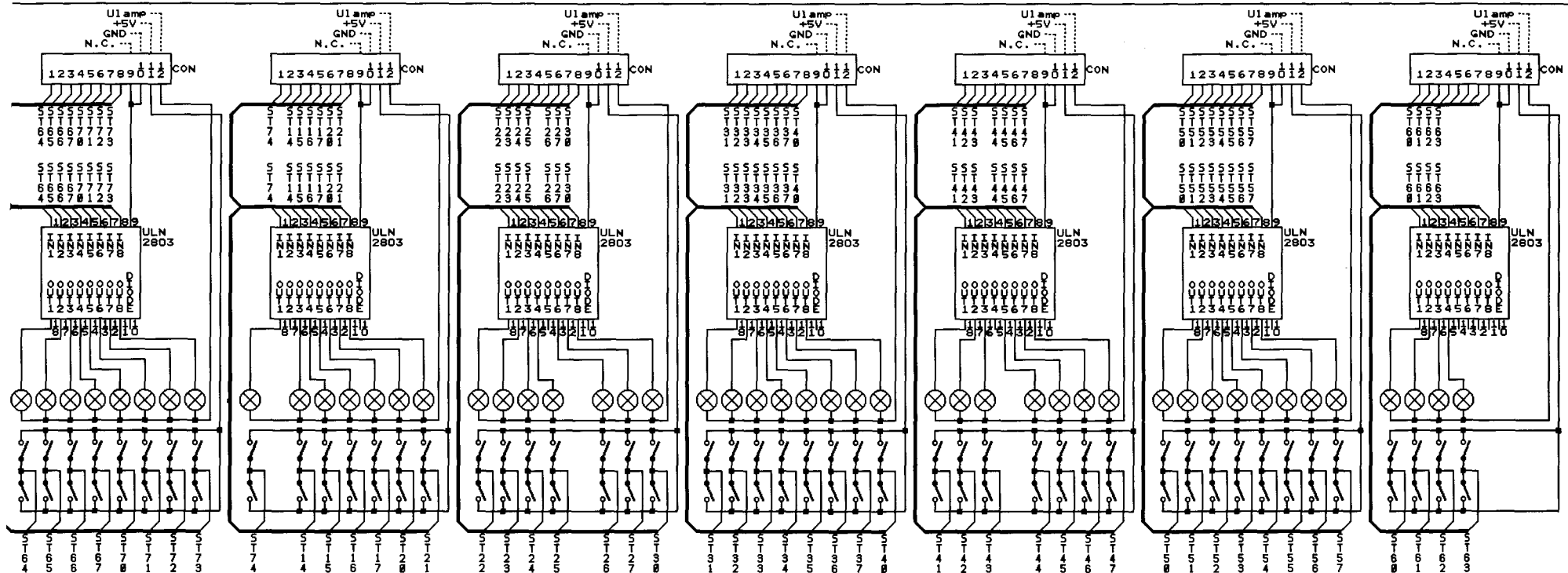


TRANSFORMER CONNECTIONS & POWER SUPPLY			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	18-04-94	PAGE
SWEELINCK III			5



ALL CONNECTORS: TO MASTER PROCESSOR
 ALL DIODES: 1N4148

SCANNING KEYING & TRANSPOSER			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	18-04-94	PAGE
SWEELINCK III			6

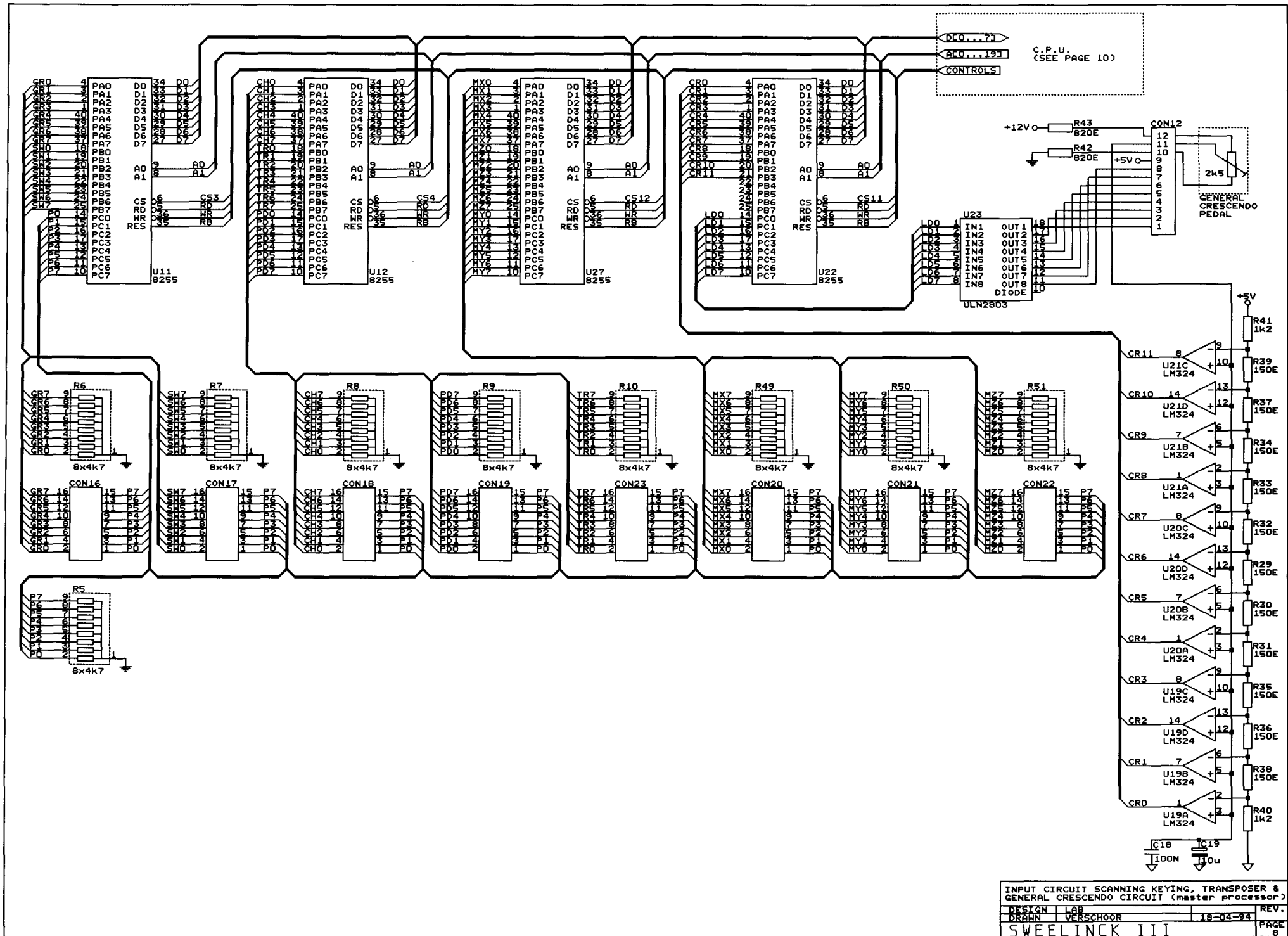


STOPLIST

PEDAL	CHOIR	GREAT	SWELL
ST00 = DOUBLE BASS 16'	ST14 = LIEBL. GEDECKT 16'	ST26 = BOURDON 16'	ST44 = QUINTATON 16'
ST01 = SUBBASS 16'	ST15 = BOURDON 8'	ST27 = OPEN DIAPASON 8'	ST45 = OPEN DIAPASON 8'
ST02 = OCTAVE 8'	ST16 = OCTAVE 4'	ST30 = GAMBA 8'	ST46 = VIOLA 8'
ST03 = GEDACKT 8'	ST17 = OPEN FLUTE 4'	ST31 = ROHRFLUTE 8'	ST47 = CELESTE 8'
ST04 = CHORALBASS 4'	ST20 = NAZARD 2 2/3'	ST32 = OCTAVE 4'	ST50 = STOPPED FLUTE 8'
ST05 = BASSFLUTE 4'	ST21 = CONICAL FLUTE 2'	ST33 = OPEN FLUTE 4'	ST51 = OCTAVE 4'
ST06 = OPEN FLUTE 2'	ST22 = TIERCE 1 3/5'	ST34 = TWELFTH 2 2/3'	ST52 = ROHRFLUTE 4'
ST07 = MIXTURE III	ST23 = STIFFLUITE 1'	ST35 = SUPEROCTAVE 2'	ST53 = FLUTE TWELFTH 2 2/3'
ST10 = BOMBARDE 32'	ST24 = CYMBAL II-III	ST36 = CONICAL FLUTE 2'	ST54 = WALDFLUTE 2'
ST11 = CONTRA TRUMPET 16'	ST25 = CLARINET 8'	ST37 = CORNET IV	ST55 = NAZARD 1 1/3'
ST12 = TRUMPET 8'		ST40 = MIXTURE V-VII	ST56 = OCTAVE 1'
ST13 = CLARION 4'		ST41 = SCHARF III-V	ST57 = SESQUIALTER II
		ST42 = CONTRA TRUMPET 16'	ST60 = RAUSCHEPFEIFE III-V
		ST43 = TRUMPET 8'	ST61 = FAGOTTO 16'
			ST62 = CROMORNE 8'
			ST63 = VOX HUMANA 8'

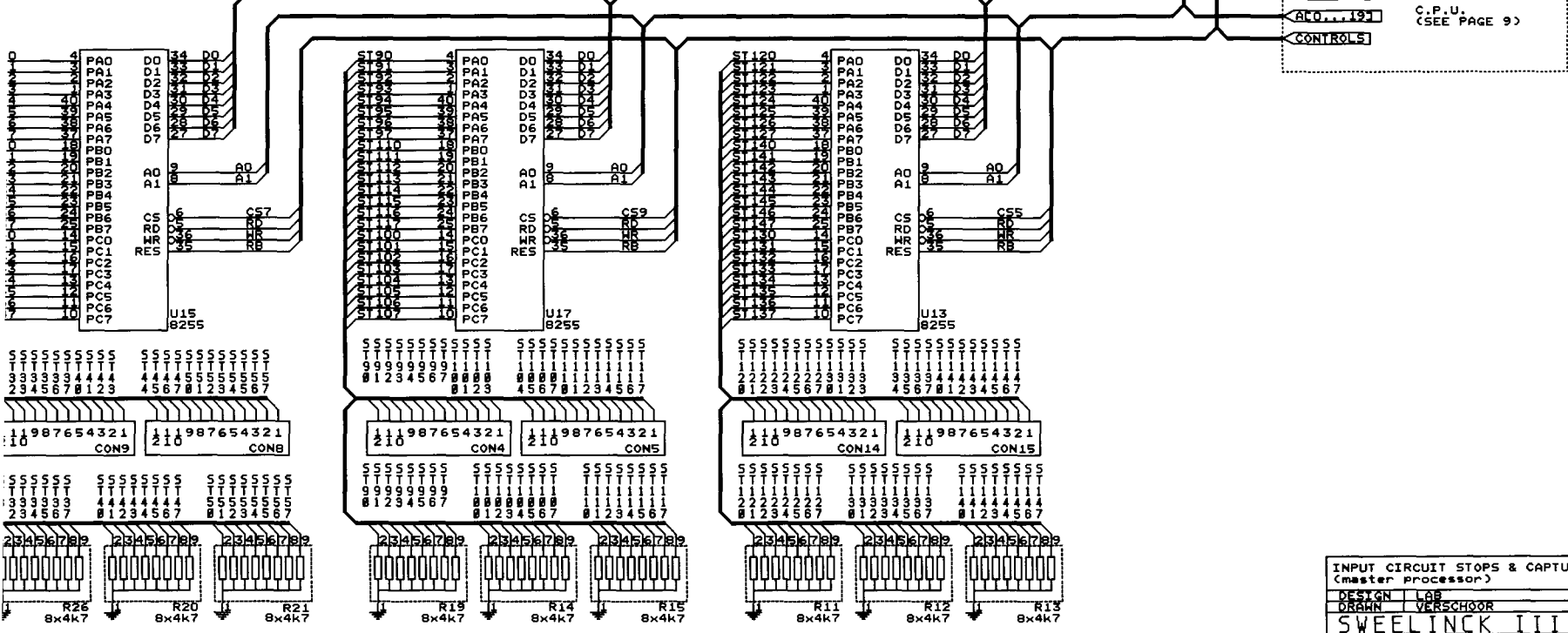
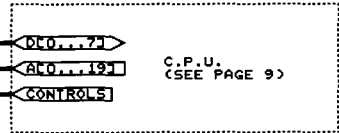
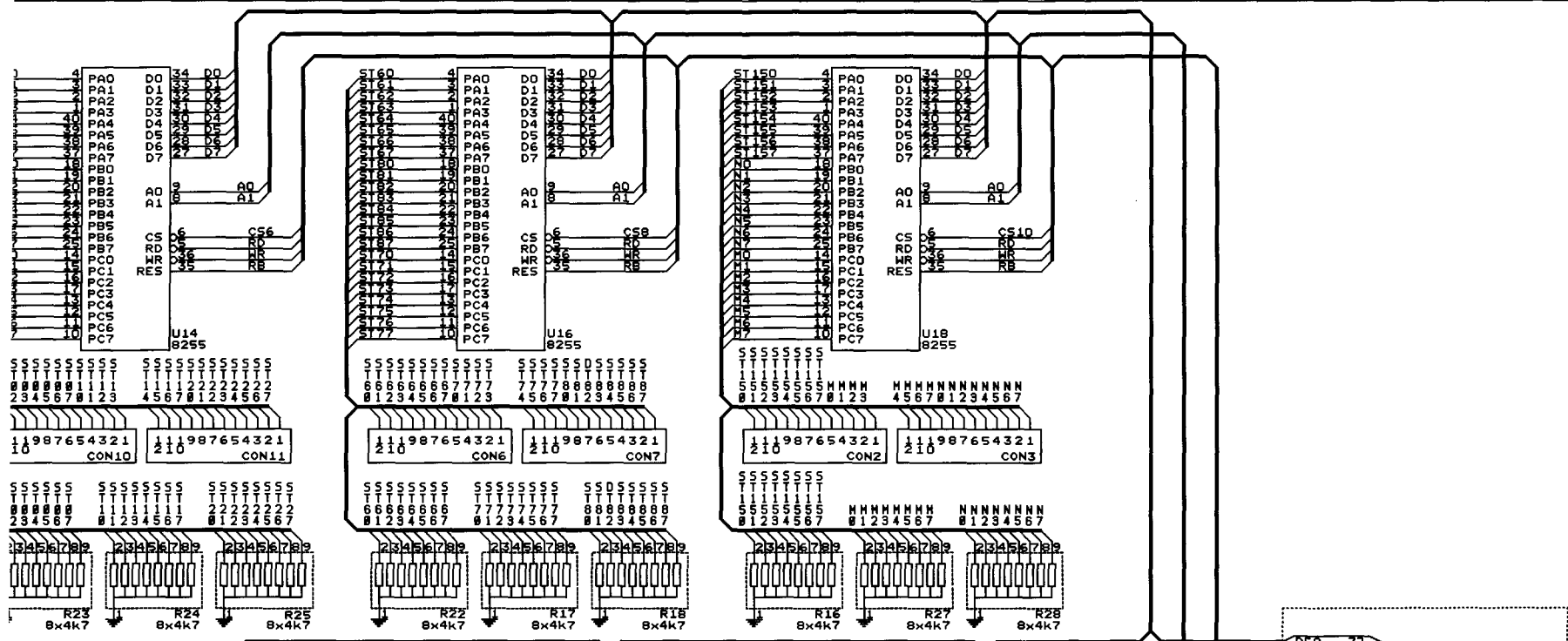
ALL CONNECTORS: TO MASTER PROCESSOR
 ALL STOPLAMPS: 14Vdc/75mA

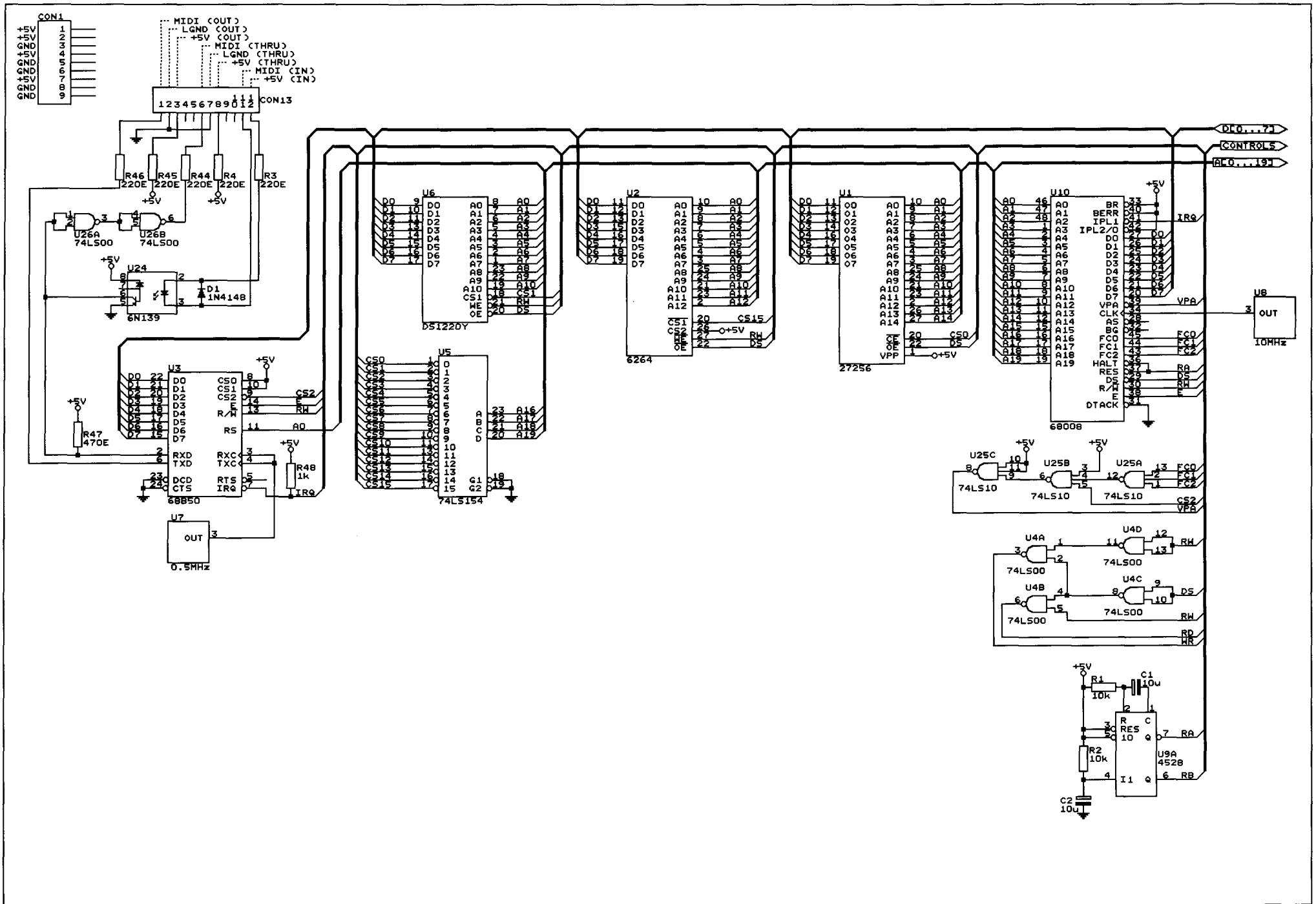
STOP-BANK & SWITCH-BANK CAPTURE SYSTEM	REV.
DESIGN LAB	18-04-94
DRAWN VERSCHOOR	PAGE 7
SWEELINCK III	



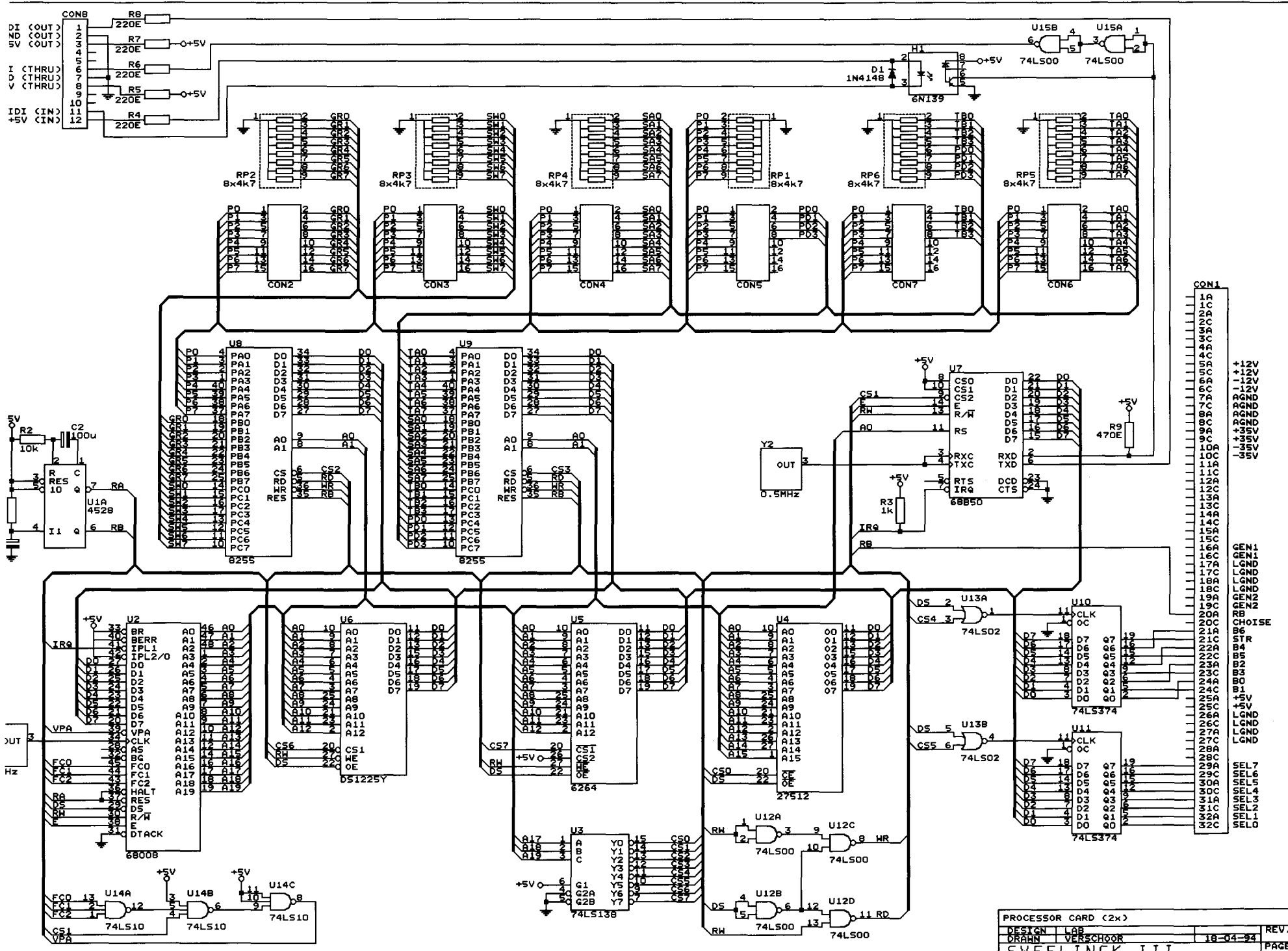
INPUT CIRCUIT SCANNING KEYING, TRANSPOSER & GENERAL CRESCENDO CIRCUIT (master processor)

DESIGN	LAB	REV.
DRAHN	VERSCHOOR	18-04-94
SWEELINCK III		PAGE 8



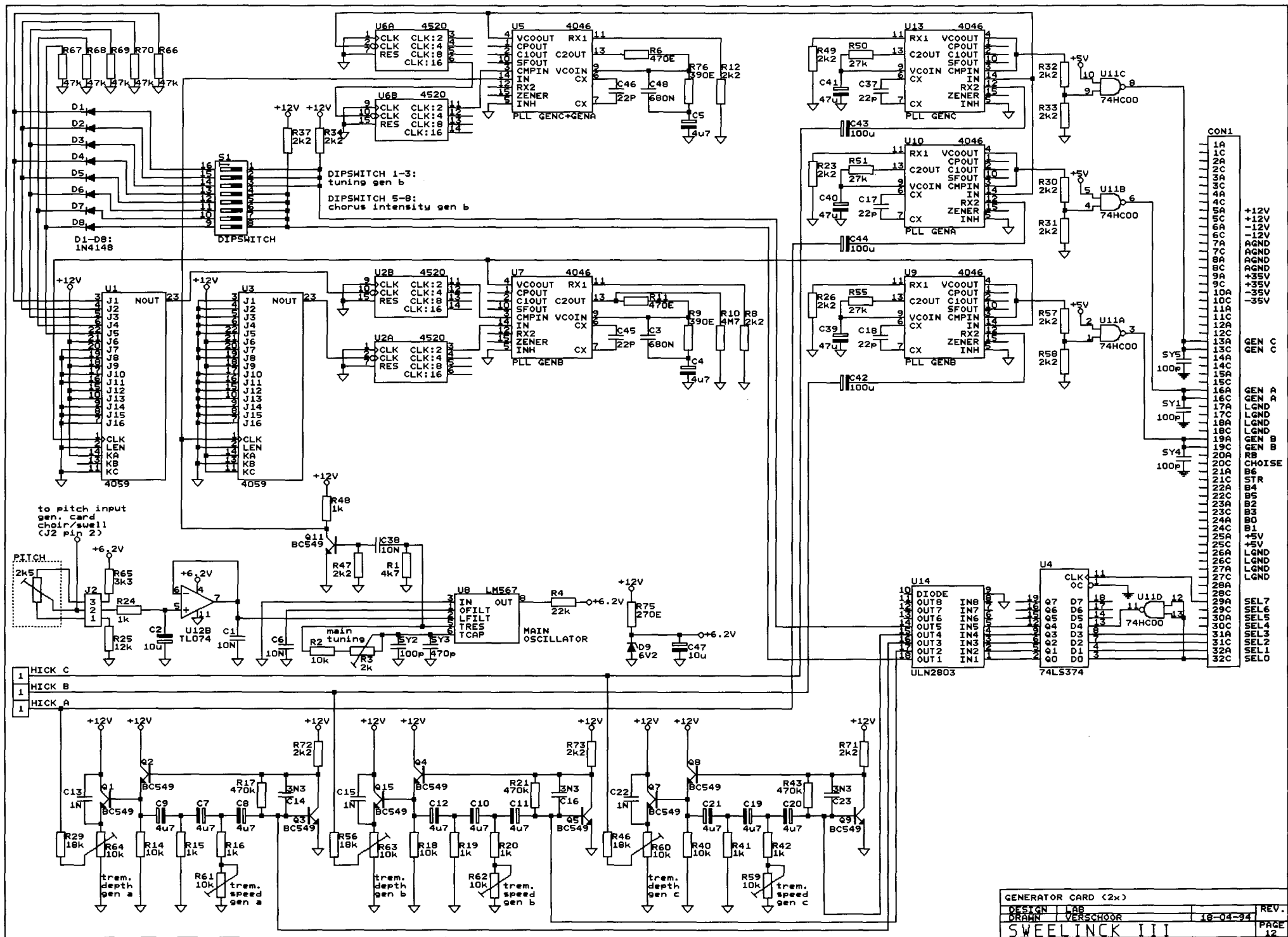


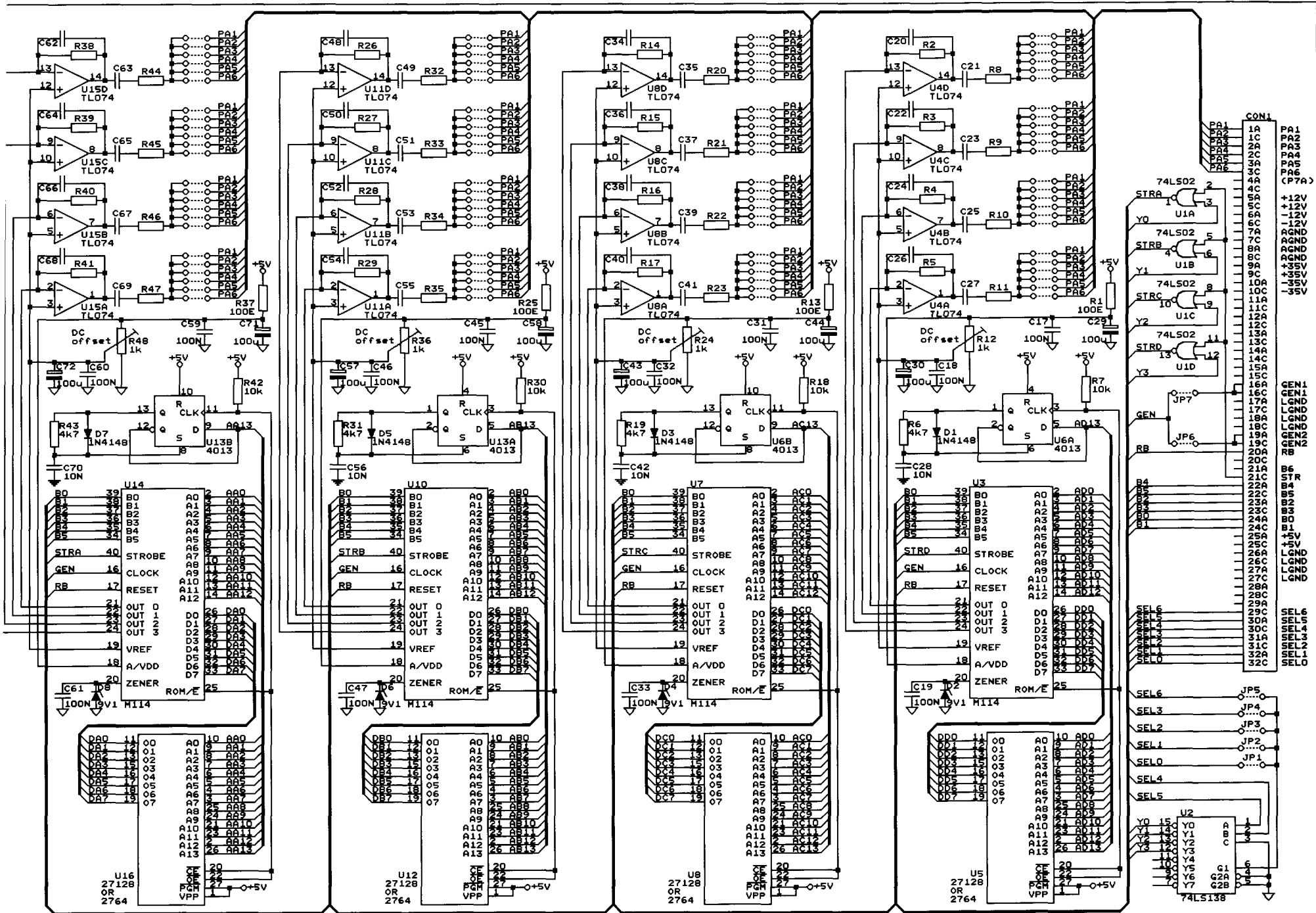
C.P.U. (master processor)			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	18-04-94	PAGE
SWEELINCK III			10



- 1A
- 1C
- 2A
- 2C
- 3C
- 4A
- 4C
- 5A
- 5C
- 6A
- 6C
- 7A
- 7C
- 8A
- 8C
- 9A
- 9C
- 10A
- 10C
- 11A
- 11C
- 12A
- 12C
- 13A
- 13C
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- 25C
- 26A
- 26C
- 27A
- 27C
- 28A
- 28C
- 29A
- 29C
- 30A
- 30C
- 31A
- 31C
- 32A
- 32C
- GEN1
- GEN1
- LGND
- LGND
- LGND
- GEN2
- GEN2
- RB
- CHOISE
- B7
- B6
- B5
- B4
- B3
- B2
- B1
- +5V
- LGND
- LGND
- LGND
- SEL7
- SEL6
- SEL5
- SEL4
- SEL3
- SEL2
- SEL1
- SEL0

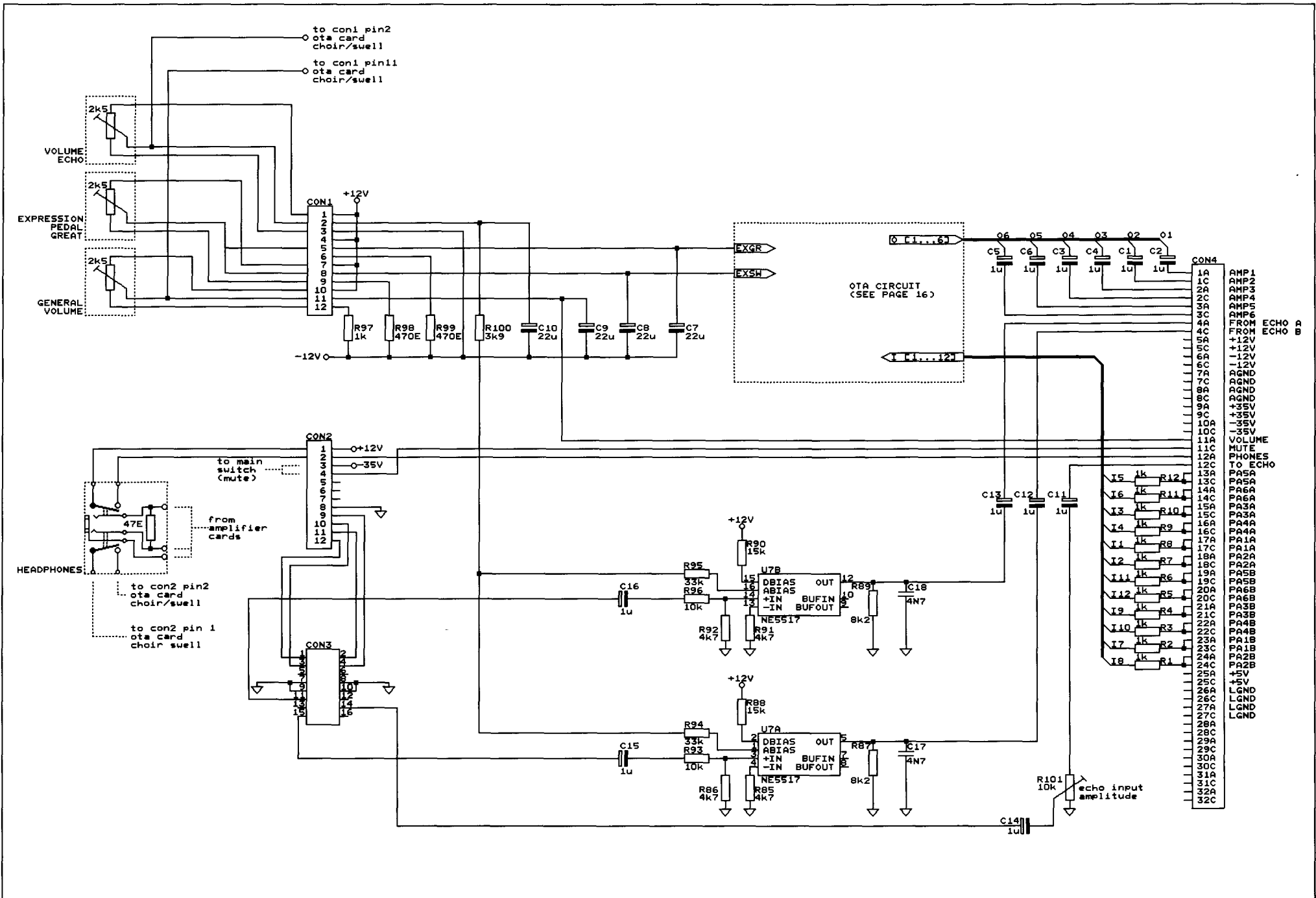
PROCESSOR CARD (2x)			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	18-04-84	PAGE
SWEELINK III			11





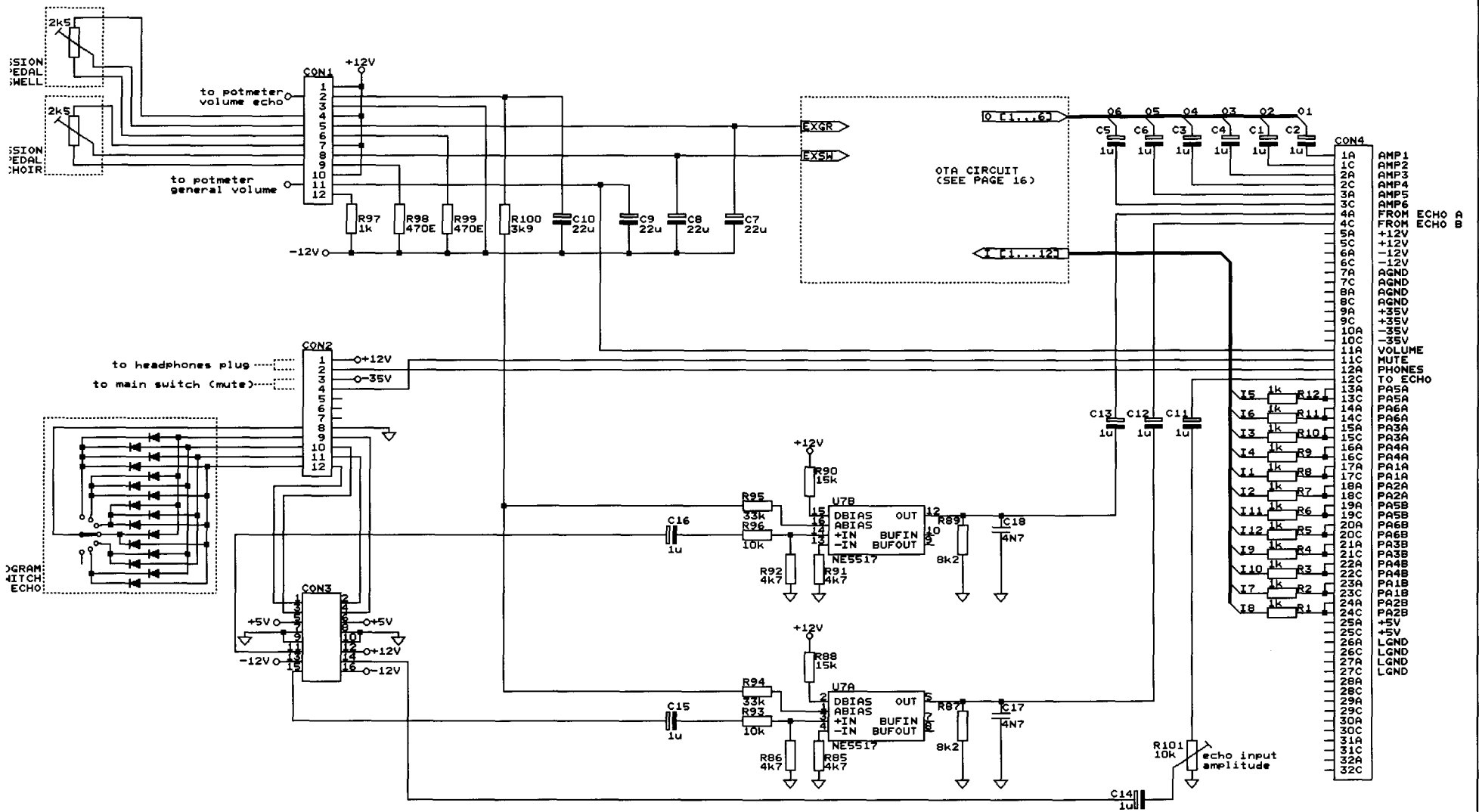
NOTE: IF FOR U5, U8, U12 OR U16 A 2764 EPROM IS PLACED INSTEAD OF A 27128 EPROM, THE 1/2 4013 (U6 AND U13) USED FOR SWITCHING THE UPPER 8K ROM AND THE LOWER 8K ROM, IS NOT NECESSARY.

VOICE CARD (10x)			
DESIGN	LAB		REV.
DRAHN	VERSCHOOR	18-04-94	PAGE
SWEELINK III			13

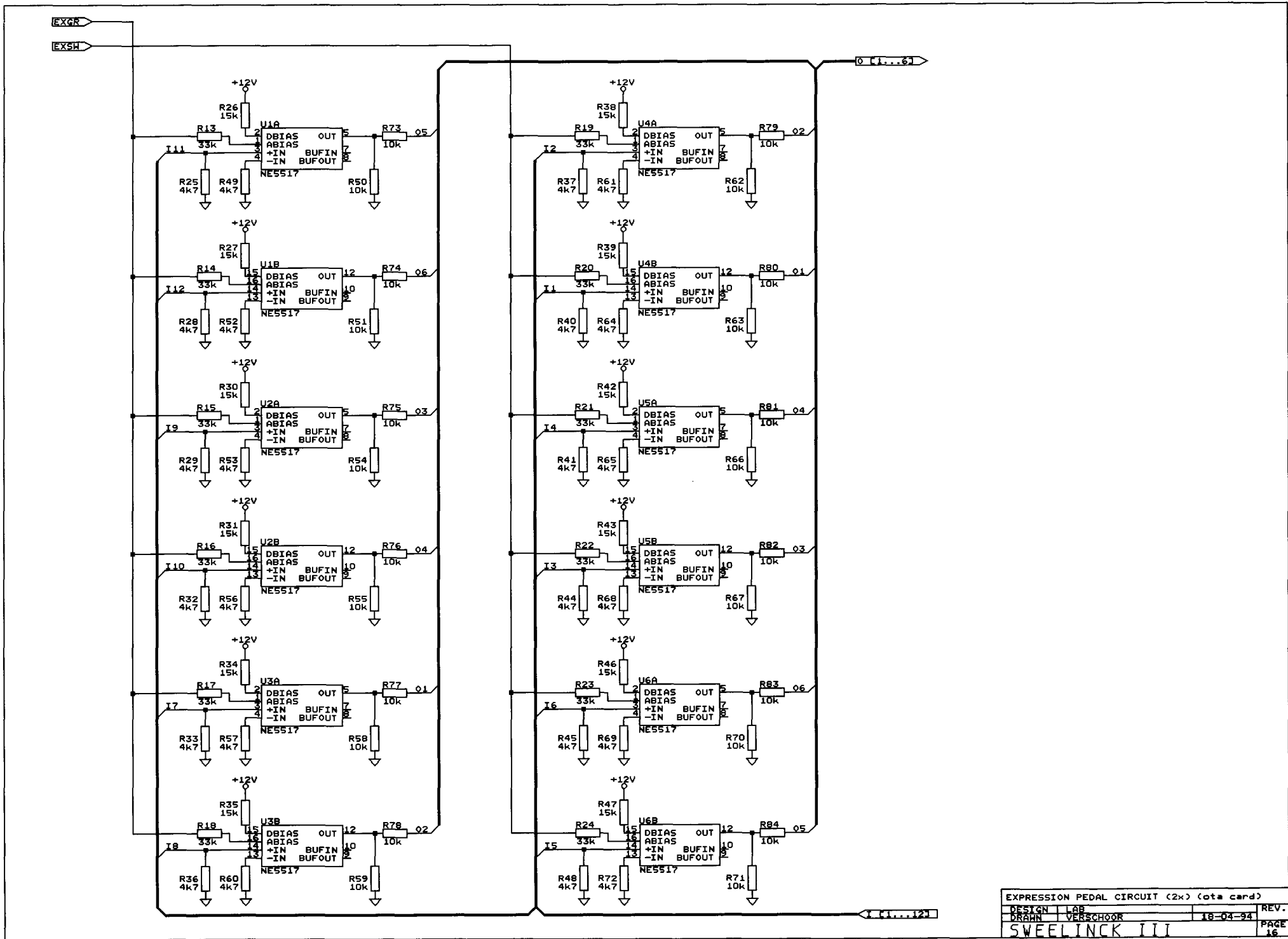


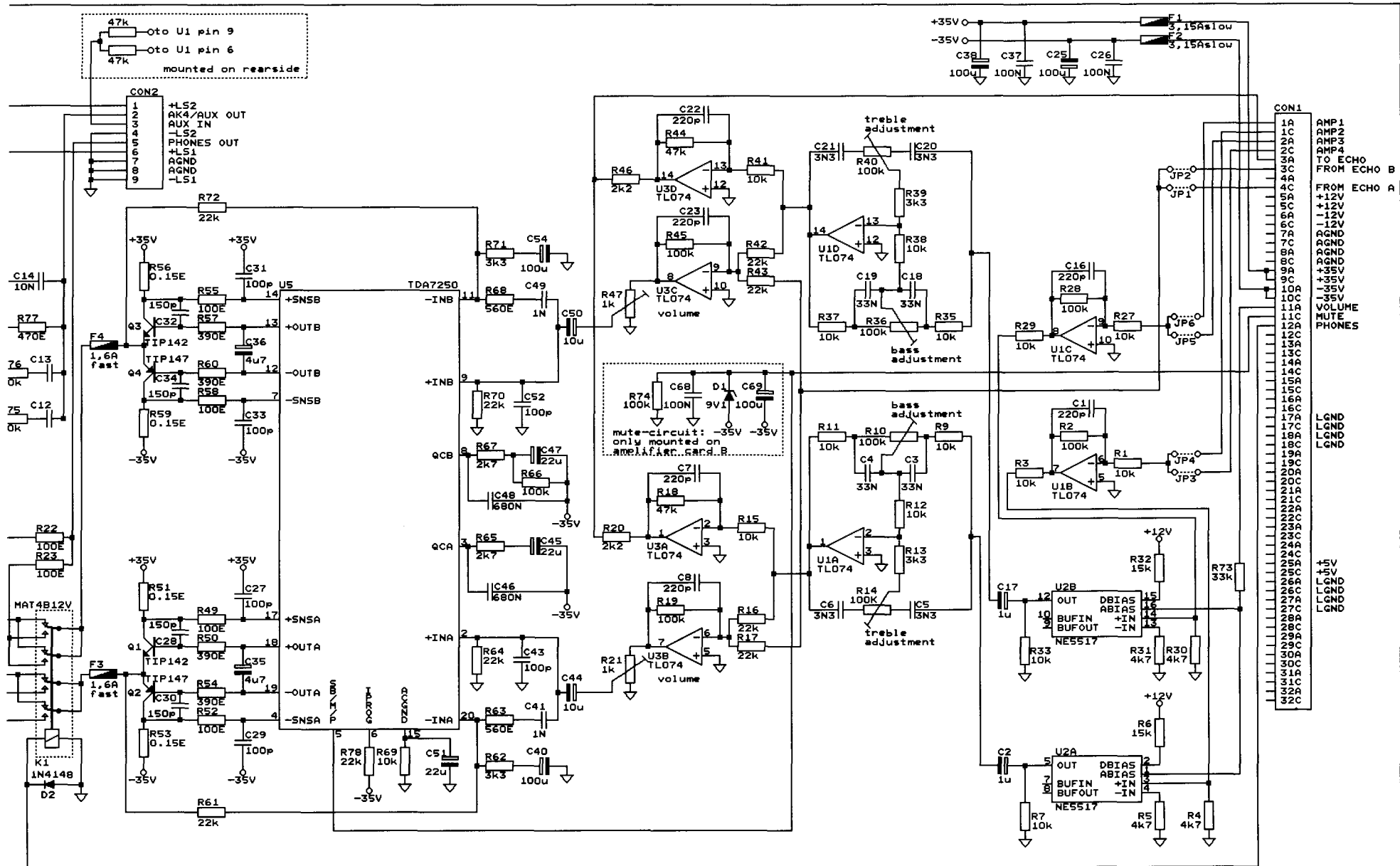
VOLUME CONTROLS; HEADPHONES CONNECTIONS & ECHO INTERFACE (ota card pedal/great)

DESIGN	LAB	REV.
DRAWN	VERSCHOOR	18-04-94
SWEELINCK III		PAGE 14

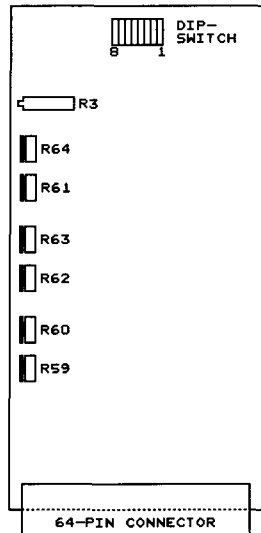


VOLUME CONTROLS; HEADPHONES CONNECTIONS & ECHO INTERFACE (ota card choir/swell)			
DESIGN	LOB		REV.
DRAWN	VERSCHOOR	18-04-94	PAGE 15
SWEELINCK III			



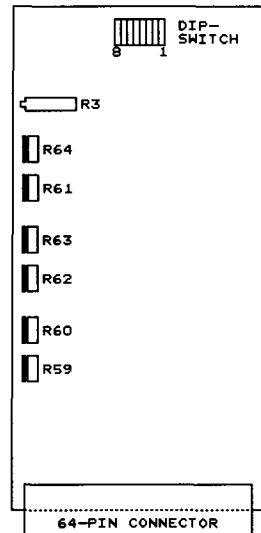


GENERATOR CARD PEDAL/GREAT
(COMPONENT-SIDE VIEW)



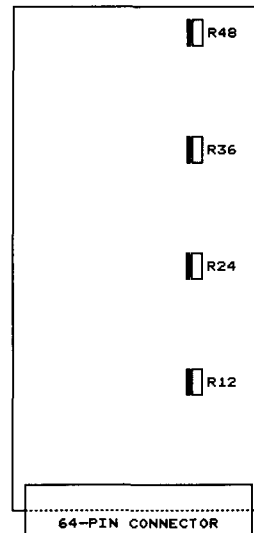
R3 = MAIN TUNING PEDAL/GREAT
 R64 = TREMULANT DEPTH GREAT
 R61 = TREMULANT SPEED GREAT
 R63 = NOT USED
 R62 = NOT USED
 R60 = NOT USED
 R59 = NOT USED
 DS1-DS3 = TUNING PEDAL
 DS4-DS8 = CHORUS INTENSITY PEDAL

GENERATOR CARD CHOIR/SWELL
(COMPONENT-SIDE VIEW)



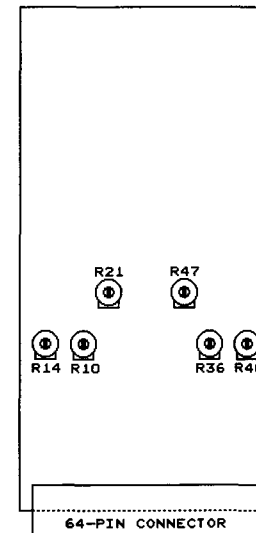
R3 = MAIN TUNING CHOIR/SWELL
 R64 = TREMULANT DEPTH CHOIR
 R61 = TREMULANT SPEED CHOIR
 R63 = TREMULANT DEPTH SWELL
 R62 = TREMULANT SPEED SWELL
 R60 = NOT USED
 R59 = NOT USED
 DS1-DS3 = TUNING SWELL
 DS4-DS8 = CHORUS INTENSITY SWELL

VOICE CARD
(COMPONENT-SIDE VIEW)



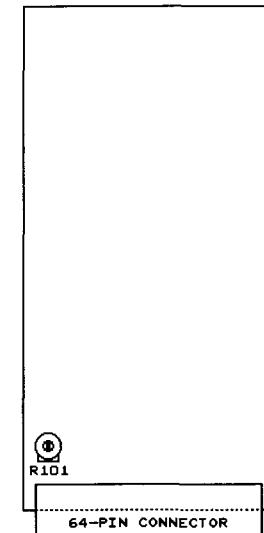
R12 = DC-OFFSET VOICE D
(DISTORSION VOICE D)
 R24 = DC-OFFSET VOICE C
(DISTORSION VOICE C)
 R36 = DC-OFFSET VOICE B
(DISTORSION VOICE B)
 R48 = DC-OFFSET VOICE A
(DISTORSION VOICE A)
 NOTE: R12-R24-R36-R48 ARE NOT
 FOR CHANGING VOLUMES!!
 TURNING THESE POTENTIOMETERS
 WILL GIVE DISTORSION!!

AMPLIFIER CARD
(COMPONENT-SIDE VIEW)



R10 = BASS LEFT AMPLIFIER
 R14 = TREBLE LEFT AMPLIFIER
 R21 = VOLUME LEFT AMPLIFIER
 R36 = BASS RIGHT AMPLIFIER
 R40 = TREBLE RIGHT AMPLIFIER
 R47 = VOLUME RIGHT AMPLIFIER

OTA CARD
(COMPONENT-SIDE VIEW)



R101 = INPUT AMPLITUDE ECHO

L1 = TUNING GREAT
 L2 = TUNING PEDAL
 R24 = TREMULANT SPEED GREAT
 R27 = TREMULANT DEPTH GREAT
 R42 = NOT USED
 R45 = NOT USED
 R46 = INTENSITY CHORUS PEDAL

L1 = TUNING CHOIR
 L2 = TUNING SWELL
 R24 = TREMULANT SPEED CHOIR
 R27 = TREMULANT DEPTH CHOIR
 R42 = TREMULANT SPEED SWELL
 R45 = TREMULANT DEPTH SWELL
 R46 = INTENSITY CHORUS SWELL