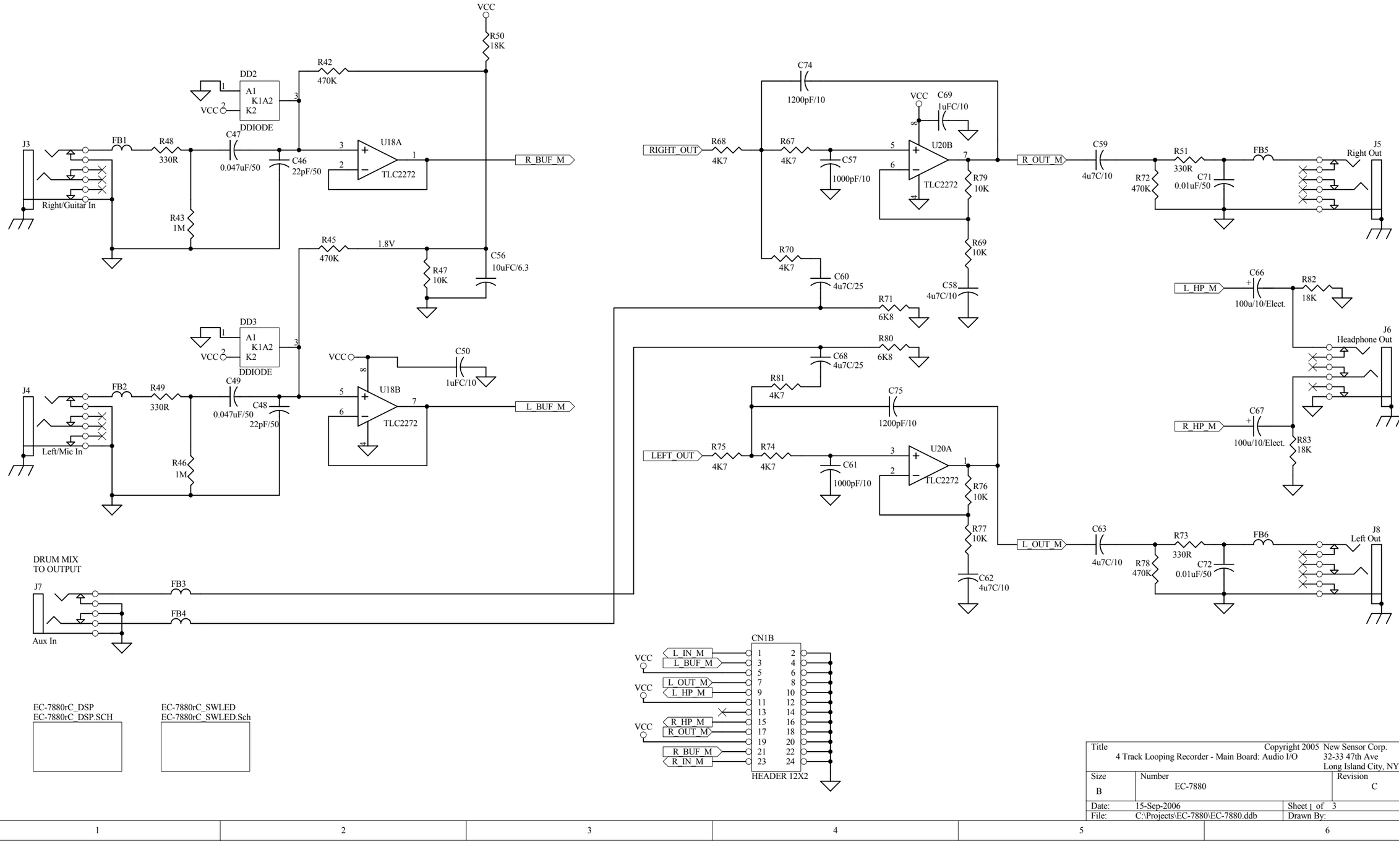
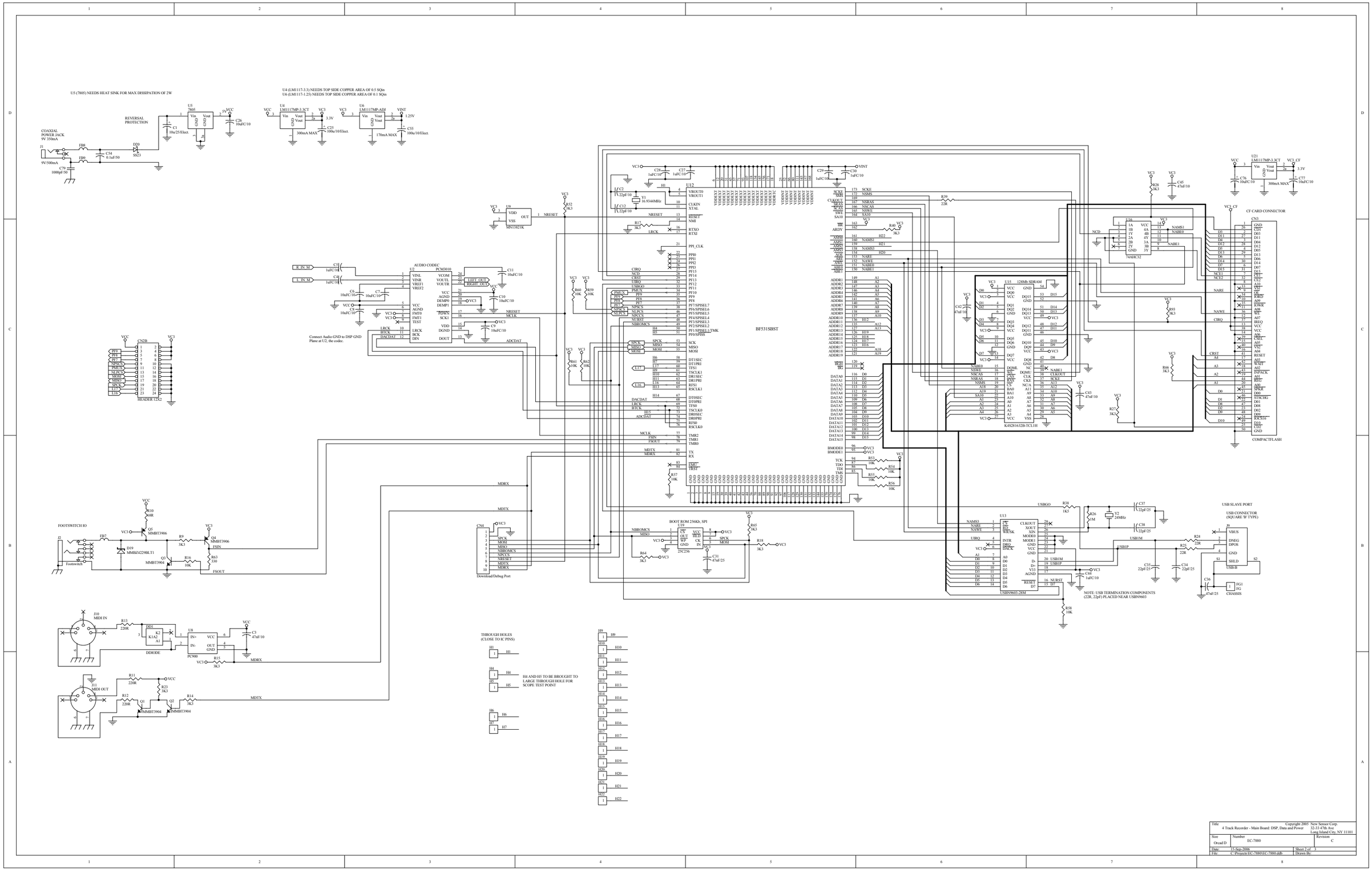
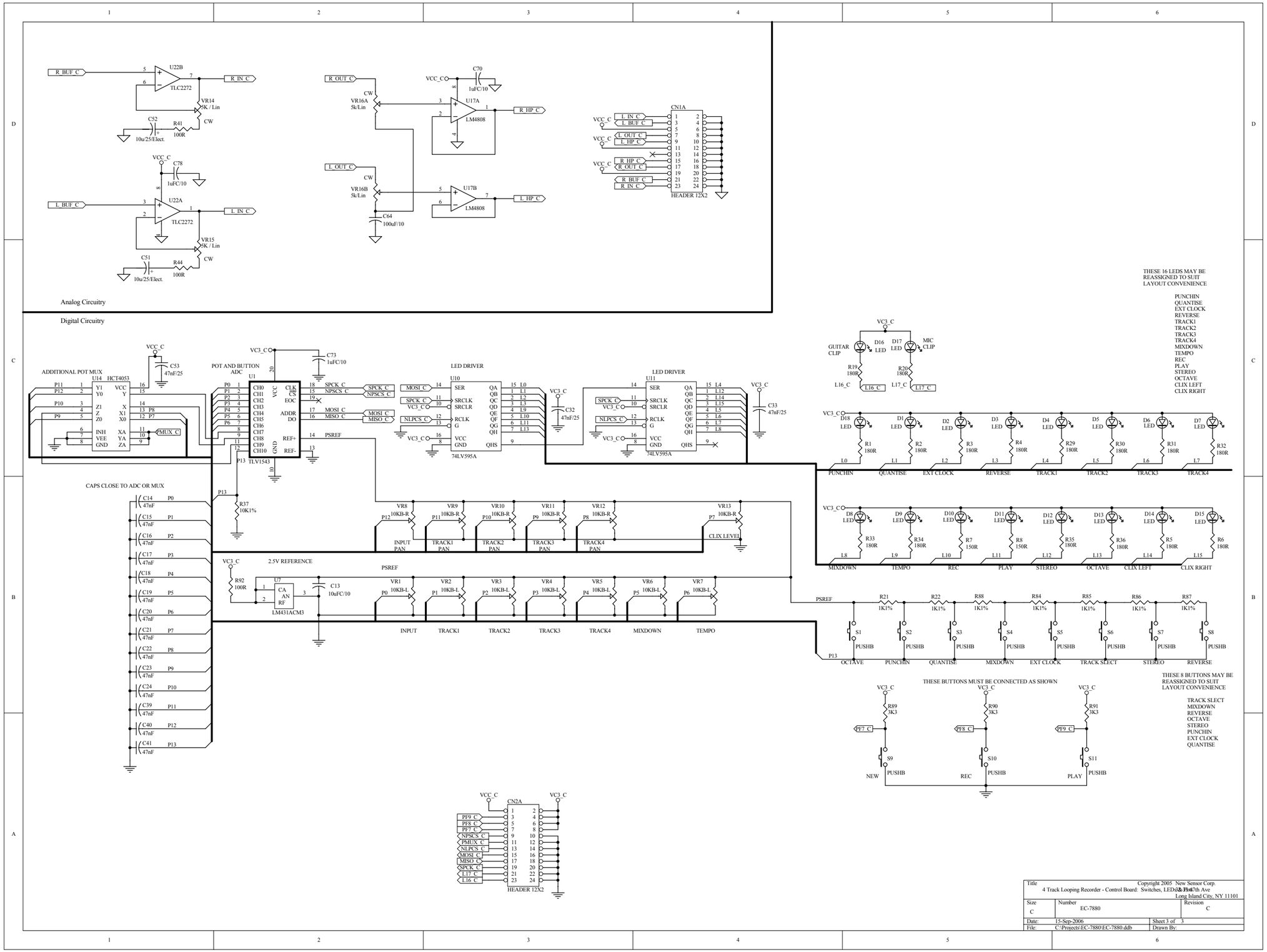

VCC
R50
18K
R42
470K
DD2
A1
K1A2
K2
DDIODE
C47
0.047uF/50
C46
22pF/50
U18A
TLC2272
J3
FB1
R48
330R
Right/Guitar In
R43
1M
R_BUF_M
R45
470K
1.8V
R47
10K
C56
10uFC/6.3
DD3
A1
K1A2
K2
DDIODE
C49
0.047uF/50
C48
22pF/50
U18B
TLC2272
C50
1uFC/10
J4
FB2
R49
330R
Left/Mic In
R46
1M
L_BUF_M
DRUM MIX
TO OUTPUT
J7
FB3
FB4
Aux In
EC-7880rC_DSP
EC-7880rC_DSP.SCH
EC-7880rC_SWLED
EC-7880rC_SWLED.Sch
C74
1200pF/10
VCC
C69
1uFC/10
RIGHT_OUT
R68
4K7
R67
4K7
C57
1000pF/10
U20B
TLC2272
R79
10K
R_OUT_M
C59
4u7C/10
R51
330R
C71
0.01uF/50
FB5
J5
Right Out
R72
470K
R69
10K
R70
4K7
C60
4u7C/25
C58
4u7C/10
R71
6K8
L_HP_M
C66
100u/10/Elect.
R82
18K
J6
Headphone Out
R80
6K8
C68
4u7C/25
R81
4K7
C75
1200pF/10
C67
100u/10/Elect.
R_HP_M
R83
18K
LEFT_OUT
R75
4K7
R74
4K7
C61
1000pF/10
U20A
TLC2272
R76
10K
R77
10K
C62
4u7C/10
L_OUT_M
C63
4u7C/10
R73
330R
C72
0.01uF/50
FB6
J8
Left Out
R78
470K
CN1B
L_IN_M
L_BUF_M
L_OUT_M
L_HP_M
R_HP_M
R_OUT_M
R_BUF_M
R_IN_M
HEADER 12X2
Title
4 Track Looping Recorder - Main Board: Audio I/O
Copyright 2005 New Sensor Corp.
32-33 47th Ave
Long Island City, NY 11101
Size
B
Number
EC-7880
Revision
C
Date: 15-Sep-2006
Sheet 1 of 3
File: C:\Projects\EC-7880\EC-7880.ddb
Drawn By:


U5 (7805) NEEDS HEAT SINK FOR MAX DISSIPATION OF 2W
U4 (LM1117-3.3) NEEDS TOP SIDE COPPER AREA OF 0.5 SQin
U6 (LM1117-1.25) NEEDS TOP SIDE COPPER AREA OF 0.1 SQin
COAXIAL POWER JACK 9V 350mA
REVERSAL PROTECTION
AUDIO CODEC
Connect Audio GND to DSP GND Plane at U2, the codec.
BF531SBST
CF CARD CONNECTOR
COMPACTFLASH
FOOTSWITCH IO
Footswitch
Download/Debug Port
BOOT ROM 256Kb, SPI
USB SLAVE PORT
USB CONNECTOR (SQUARE 'B' TYPE)
NOTE: USB TERMINATION COMPONENTS (22R, 22pF) PLACED NEAR USBN9603
THROUGH HOLES (CLOSE TO IC PINS)
H4 AND H5 TO BE BROUGHT TO LARGE THROUGH HOLE FOR SCOPE TEST POINT
Title
4 Track Recorder - Main Board: DSP, Data and Power
Copyright 2005 New Sensor Corp.
32-33 47th Ave
Long Island City, NY 11101
Size
Orcad D
Number
EC-7880
Revision
C
Date: 15-Sep-2006
Sheet 2 of 3
File: C:\Projects\EC-7880\EC-7880.ddb
Drawn By:



Title	4 Track Looping Recorder - Control Board: Switches, LEDs & Pots	Copyright 2005 New Sensor Corp. 3 Fifth Ave Long Island City, NY 11101
Size C	Number EC-7880	Revision C
Date: 15-Sep-2006		Sheet 3 of 3
File: C:\Projects\EC-7880\EC-7880.ddb		Drawn By: