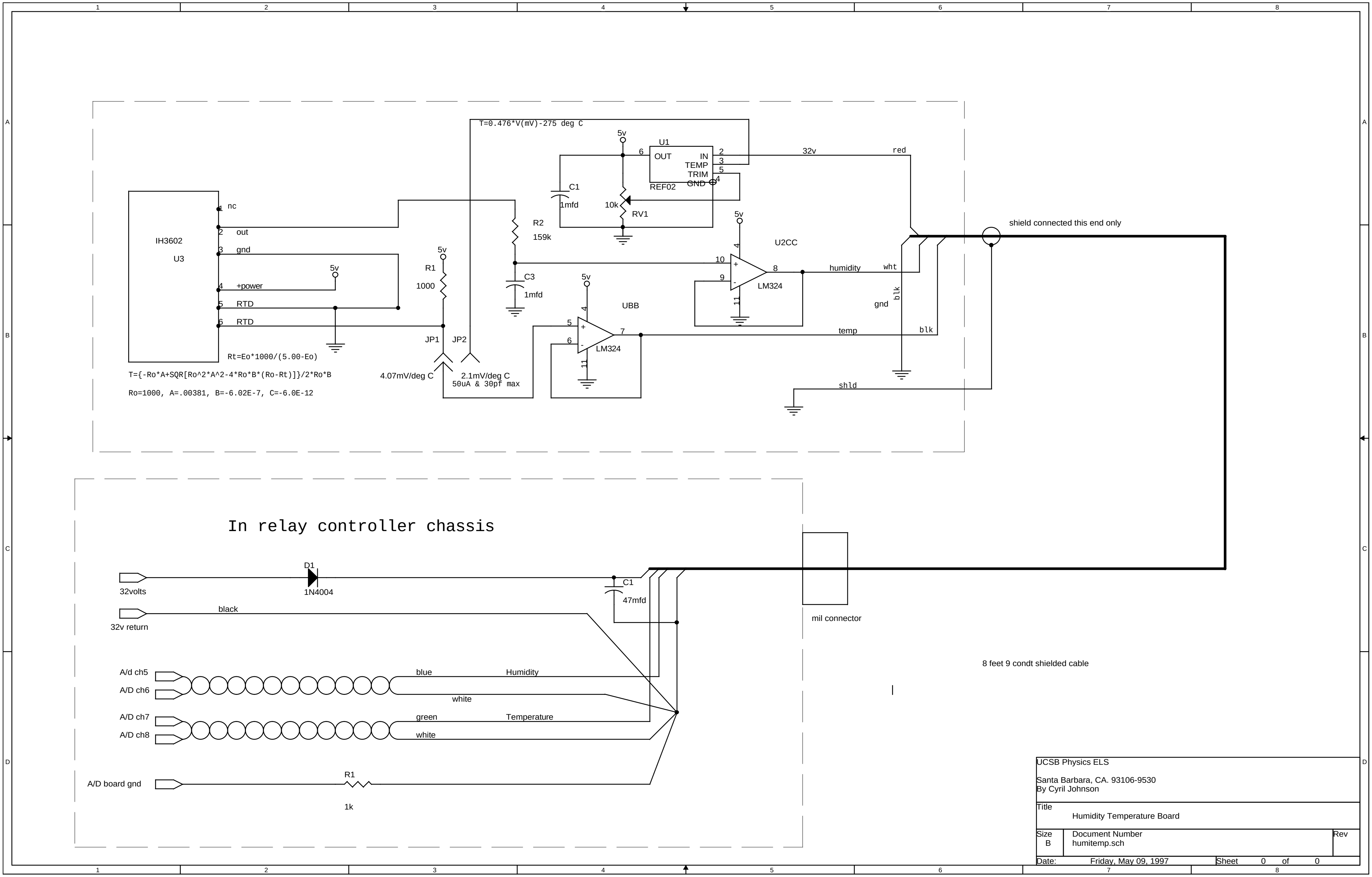

T=0.476*V(mV)-275 deg C
5v
U1
6
OUT
IN
TEMP
TRIM
GND
2
3
5
4
REF02
32v
red
C1
1mfd
10k
RV1
nc
IH3602
U3
1
2 out
3 gnd
4 +power
5 RTD
6 RTD
5v
R2
159k
R1
1000
C3
1mfd
5v
U2CC
10
9
8
4
11
LM324
humidity
wht
blk
gnd
5v
UBB
5
6
7
4
11
LM324
temp
blk
shld
shield connected this end only
JP1
JP2
Rt=Eo*1000/(5.00-Eo)
T={-Ro*A+SQR[Ro^2*A^2-4*Ro*B*(Ro-Rt)]}/2*Ro*B
Ro=1000, A=.00381, B=-6.02E-7, C=-6.0E-12
4.07mV/deg C
2.1mV/deg C
50uA & 30pf max
In relay controller chassis
D1
1N4004
32volts
C1
47mfd
black
32v return
mil connector
A/d ch5
A/D ch6
blue
Humidity
white
A/D ch7
A/D ch8
green
Temperature
white
8 feet 9 condt shielded cable
A/D board gnd
R1
1k
UCSB Physics ELS
Santa Barbara, CA. 93106-9530
By Cyril Johnson
Title
Humidity Temperature Board
Size
B
Document Number
humitemp.sch
Rev
Date: Friday, May 09, 1997
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