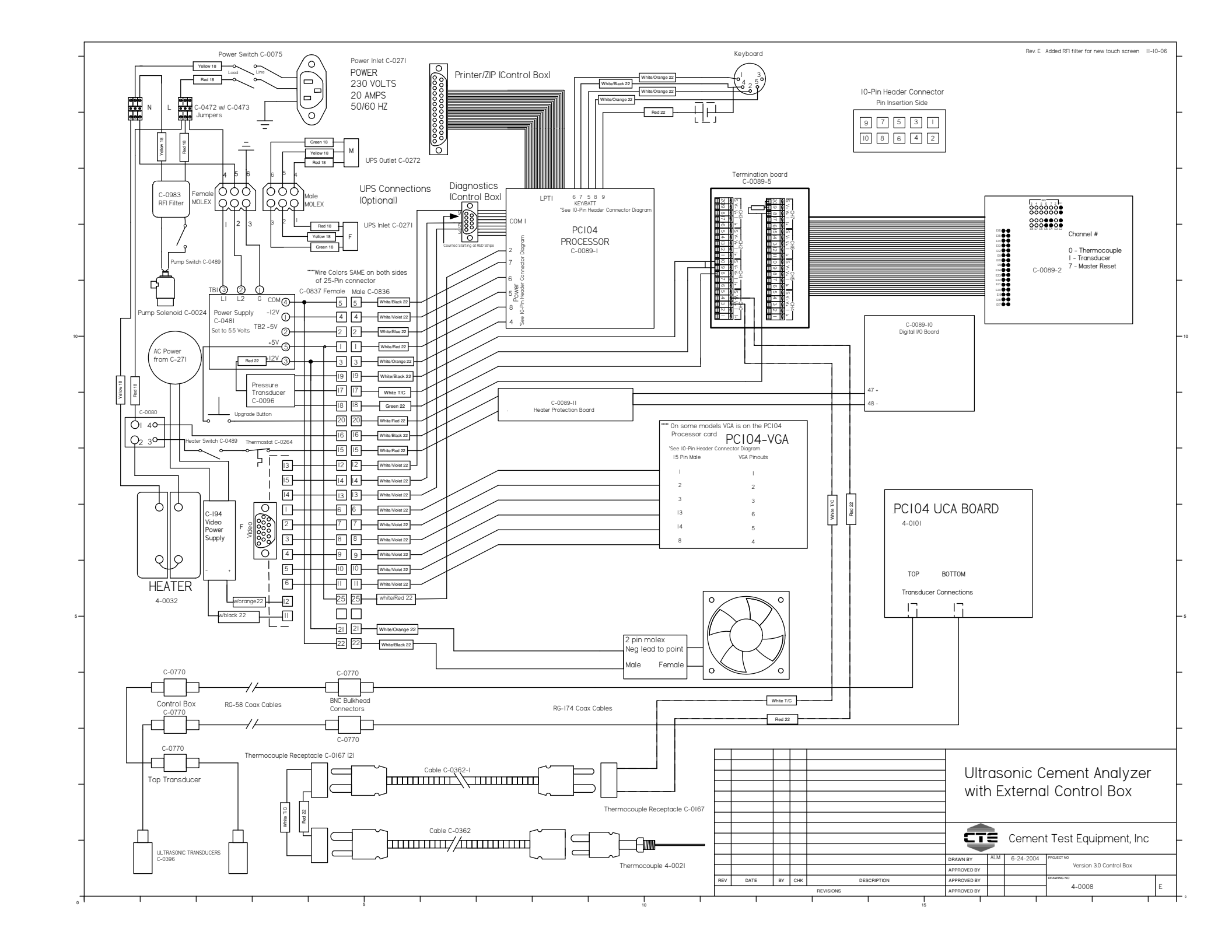
Rev. E Added RFI filter for new touch screen 11-10-06
Power Switch C-0075
Yellow 18
Red 18
Load
Line
Power Inlet C-0271
POWER
230 VOLTS
20 AMPS
50/60 HZ
N
L
C-0472 w/ C-0473
Jumpers
Printer/ZIP (Control Box)
Keyboard
White/Black 22
White/Orange 22
White/Orange 22
White/Orange 22
Red 22
10-Pin Header Connector
Pin Insertion Side
9 7 5 3 1
10 8 6 4 2
Green 18
Yellow 18
Red 18
M
UPS Outlet C-0272
C-0983
RFI Filter
Female
MOLEX
Male
MOLEX
UPS Connections
(Optional)
Diagnostics
(Control Box)
Red 18
Yellow 18
Green 18
F
UPS Inlet C-0271
Counted Starting at RED Stripe
LPT1 6 7 5 8 9
KEY/BATT
*See 10-Pin Header Connector Diagram
COM 1
PC104
PROCESSOR
C-0089-1
Power
*See 10-Pin Header Connector Diagram
Termination board
C-0089-5
Channel #
0 - Thermocouple
1 - Transducer
7 - Master Reset
C-0089-2
Pump Switch C-0489
Pump Solenoid C-0024
*****Wire Colors SAME on both sides
of 25-Pin connector
C-0837 Female
Male C-0836
TB1
L1
L2
G
Power Supply
C-0481
Set to 5.5 Volts
COM
-12V
TB2 -5V
+5V
12V
Red 22
AC Power
from C-271
Yellow 18
Red 18
C-0089-10
Digital I/O Board
47 +
48 -
C-0089-11
Heater Protection Board
Pressure
Transducer
C-0096
Upgrade Button
C-0080
Heater Switch C-0489
Thermostat C-0264
***** On some models VGA is on the PC104
Processor card
PC104-VGA
*See 10-Pin Header Connector Diagram
15 Pin Male
VGA Pinouts
C-194
Video
Power
Supply
F
Video
HEATER
4-0032
w/orange22
w/black 22
2 pin molex
Neg lead to point
Male
Female
White T/C
Red 22
PC104 UCA BOARD
4-0101
TOP
BOTTOM
Transducer Connections
C-0770
Control Box
RG-58 Coax Cables
BNC Bulkhead
Connectors
RG-174 Coax Cables
Top Transducer
Thermocouple Receptacle C-0167 (2)
Cable C-0362-1
Thermocouple Receptacle C-0167
Cable C-0362
Thermocouple 4-0021
ULTRASONIC TRANSDUCERS
C-0396
REV
DATE
BY
CHK
DESCRIPTION
REVISIONS
Ultrasonic Cement Analyzer
with External Control Box
Cement Test Equipment, Inc
DRAWN BY
ALM
6-24-2004
APPROVED BY
APPROVED BY
APPROVED BY
PROJECT NO
Version 3.0 Control Box
DRAWING NO
4-0008
E