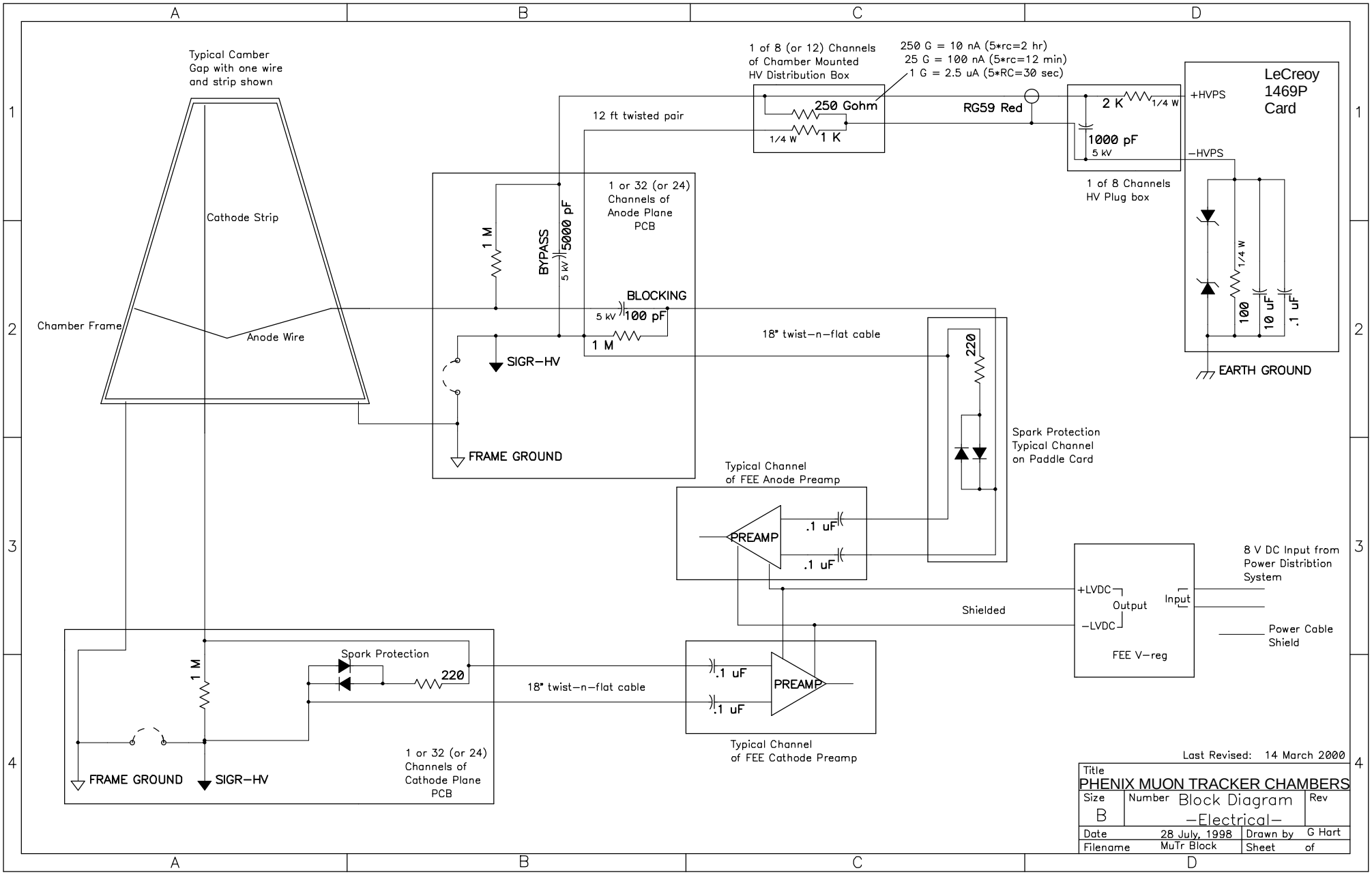
Typical Camber Gap with one wire and strip shown
Cathode Strip
Chamber Frame
Anode Wire
1 of 8 (or 12) Channels of Chamber Mounted HV Distribution Box
250 Gohm
1/4 W
1 K
250 G = 10 nA (5*rc=2 hr)
25 G = 100 nA (5*rc=12 min)
1 G = 2.5 uA (5*RC=30 sec)
12 ft twisted pair
RG59 Red
2 K
1/4 W
1000 pF
5 kV
1 of 8 Channels HV Plug box
+HVPS
−HVPS
LeCreoy 1469P Card
1/4 W
100
10 uF
.1 uF
EARTH GROUND
1 or 32 (or 24) Channels of Anode Plane PCB
1 M
BYPASS
5000 pF
5 kV
BLOCKING
5 kV
100 pF
1 M
SIGR−HV
FRAME GROUND
18" twist−n−flat cable
220
Spark Protection Typical Channel on Paddle Card
Typical Channel of FEE Anode Preamp
PREAMP
.1 uF
.1 uF
Shielded
+LVDC
−LVDC
Output
Input
FEE V−reg
8 V DC Input from Power Distribtion System
Power Cable Shield
Spark Protection
220
1 M
18" twist−n−flat cable
.1 uF
.1 uF
PREAMP
Typical Channel of FEE Cathode Preamp
FRAME GROUND
SIGR−HV
1 or 32 (or 24) Channels of Cathode Plane PCB
Last Revised: 14 March 2000
Title
PHENIX MUON TRACKER CHAMBERS
Size
B
Number
Block Diagram
−Electrical−
Rev
Date
28 July, 1998
Drawn by
G Hart
Filename
MuTr Block
Sheet
of