M(7..12)

M(10)
M(11)
M(12)

VCC
C52
0.1uF
GND

U127
SN74HC138D

(connected to J1 - pin #)

FRONT PANEL LEDS
BINARY PIN NUMBER

(1)
D14
R13
1.82Kohms
Red
M(7)
U73
MM74HC04M
VCC

(2)
D13
R12
1.82Kohms
Red
M(8)

(4)
D12
R11
1.82Kohms
Red
M(9)

(8)
D11
R10
1.82Kohms
Red
M(10)

(16)
D10
R9
1.82Kohms
Red
M(11)

(32)
D9
R8
1.82Kohms
Red
M(12)

(MSB)

M(7)
M(8)
M(9)

U119 SN74HC138D
U120 SN74HC138D
U123 SN74HC138D
U124 SN74HC138D
U69 SN74HC138D
U68 SN74HC138D
U126 SN74HC138D

74HC Logic
U134 MM74HC541WM
U145 MM74HC541WM
U146 MM74HC541WM
U142 MM74HC541WM
U143 MM74HC541WM
U144 MM74HC541WM
U141 MM74HC541WM

C183 0.1uF
C184 0.1uF
C185 0.1uF
C186 0.1uF
C179 0.1uF
C180 0.1uF
C78 0.1uF

A2(G(2..8))
B2(G(1..8))
C2(G(1..8))
D2(G(1..8))
E2(G(1..8))
F2(G(1..8))
G2(G(1..3))

Bypassing for chips
C191 0.1uF
C192 0.1uF
C193 0.1uF
C187 0.1uF
C188 0.1uF
C189 0.1uF
C190 0.1uF
C51 0.1uF

MODIFIED 11/20/2002 02:47:13 PM		Hierarchical_Page #Hierarchical_Page Total	
EED Department	ORIGINATOR	M.Haldeman	DATE 9/2002
	DRAWN	N.Moibenko	DATE 10/2002
	CHECKED	M.Haldeman	DATE 10/09/2002
	APPROVED	M.Haldeman	DATE 10/10/2002

Fermi National Accelerator Laboratory
United States Department of Energy

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FRONT END DIAGNOSTIC UNIT PROFILER
MSB MUX

SIZE	DRAWING NUMBER	REV
D	drawing number	A

Schematic Page 01 of 01

H=8ND, V=4LA