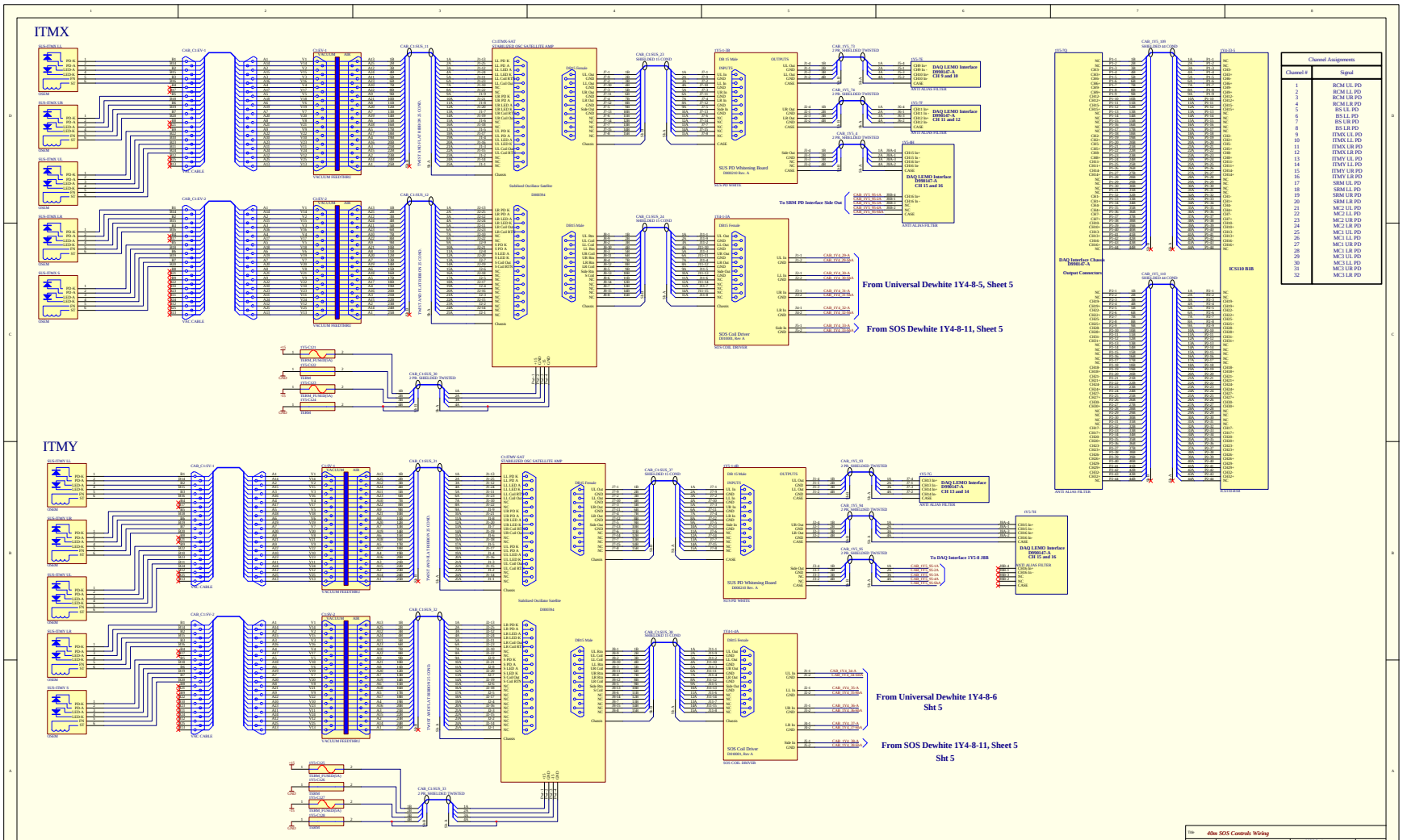
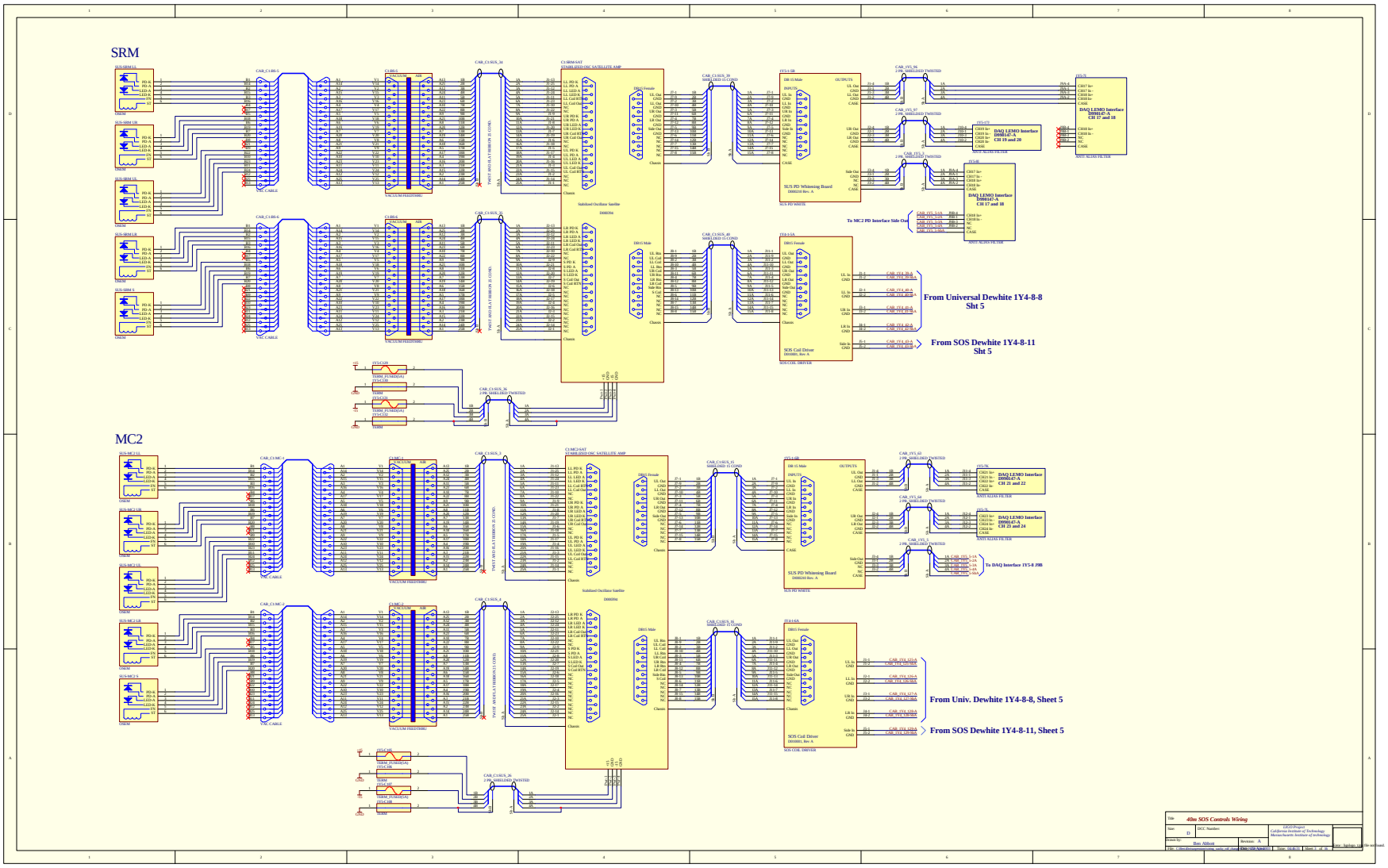
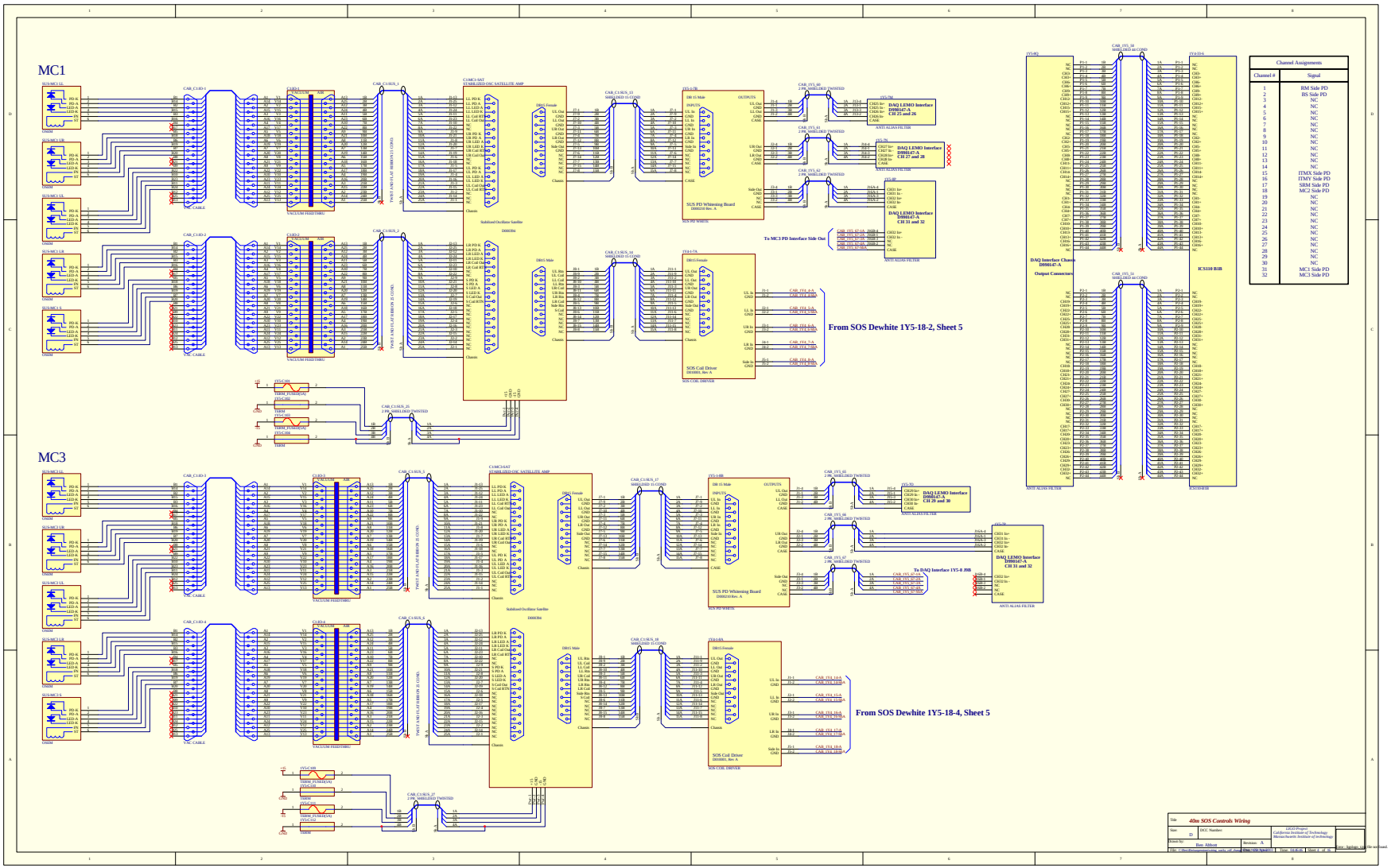
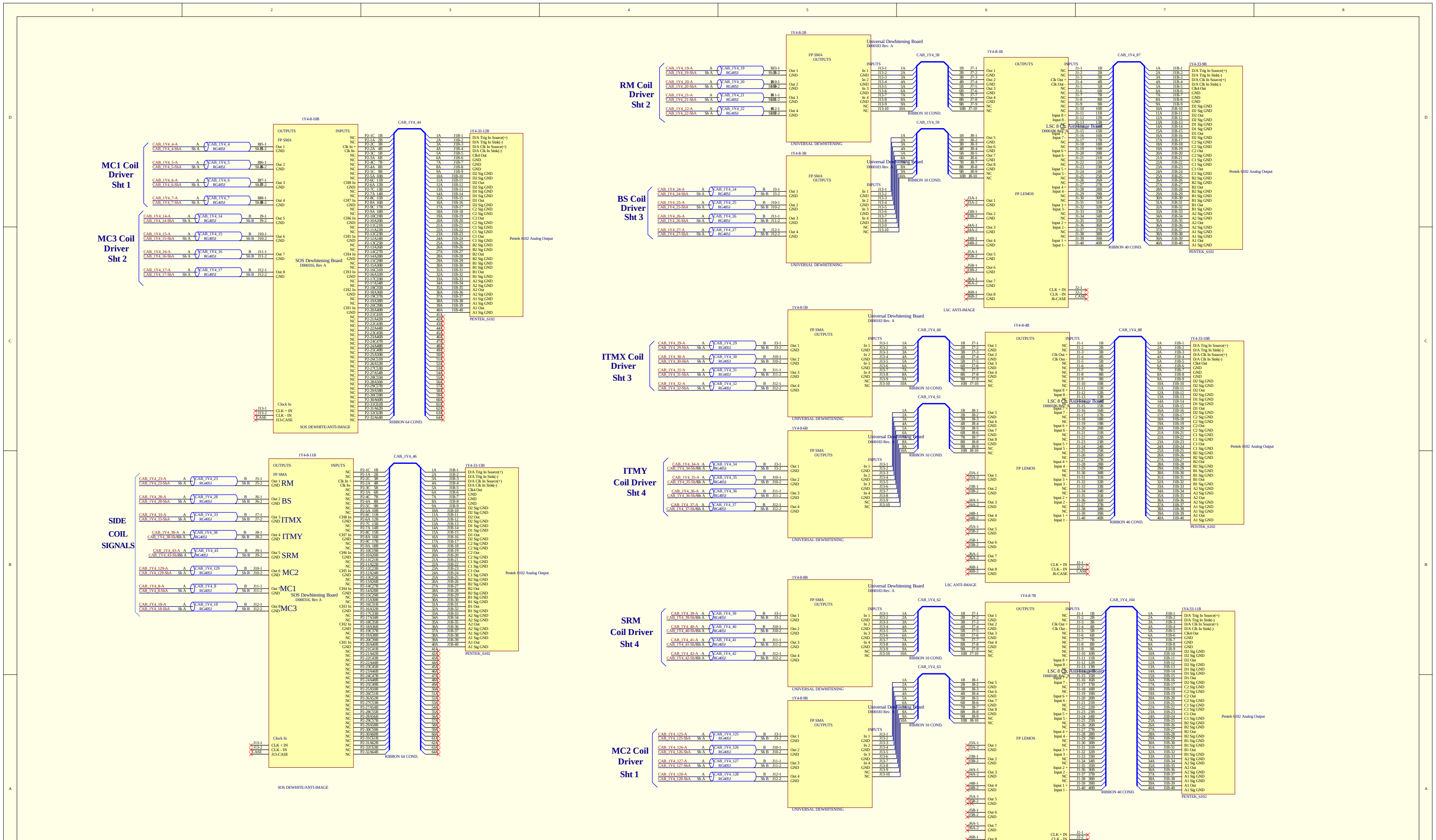

ITMX
ITMY
From Universal Dewhite 1Y4-8-5, Sheet 5
From SOS Dewhite 1Y4-8-11, Sheet 5
From Universal Dewhite 1Y4-8-6 Sht 5
From SOS Dewhite 1Y4-8-11, Sheet 5 Sht 5
To SRM PD Interface Side Out
To DAQ Interface 1Y5-8 J8B
DAQ LEMO Interface D990147-A CH 15 and 16
DAQ LEMO Interface D990147-A CH 13 and 14
DAQ LEMO Interface D990147-A CH 11 and 12
DAQ LEMO Interface D990147-A CH 9 and 10
ANTI ALIAS FILTER
Output Connectors
Channel Assignments
Channel #
Signal
1 RCM UL PD
2 RCM LL PD
3 RCM UR PD
4 RCM LR PD
5 BS UL PD
6 BS LL PD
7 BS UR PD
8 BS LR PD
9 ITMX UL PD
10 ITMX LL PD
11 ITMX UR PD
12 ITMX LR PD
13 ITMY UL PD
14 ITMY LL PD
15 ITMY UR PD
16 ITMY LR PD
17 SRM UL PD
18 SRM LL PD
19 SRM UR PD
20 SRM LR PD
21 MC2 UL PD
22 MC2 LL PD
23 MC2 UR PD
24 MC2 LR PD
25 MC1 UL PD
26 MC1 LL PD
27 MC1 UR PD
28 MC1 LR PD
29 MC3 UL PD
30 MC3 LL PD
31 MC3 UR PD
32 MC3 LR PD
40m SOS Controls Wiring
LIGO Project
California Institute of Technology
Massachusetts Institute of Technology
Dave Ableson


SRM
MC2
From Universal Dewhite 1Y4-8-8 Sht 5
From SOS Dewhite 1Y4-8-11 Sht 5
From Univ. Dewhite 1Y4-8-8, Sheet 5
From SOS Dewhite 1Y4-8-11, Sheet 5
To MC2 PD Interface Side Out
To DAQ Interface 1Y5-8 J9B
40m SOS Controls Wiring

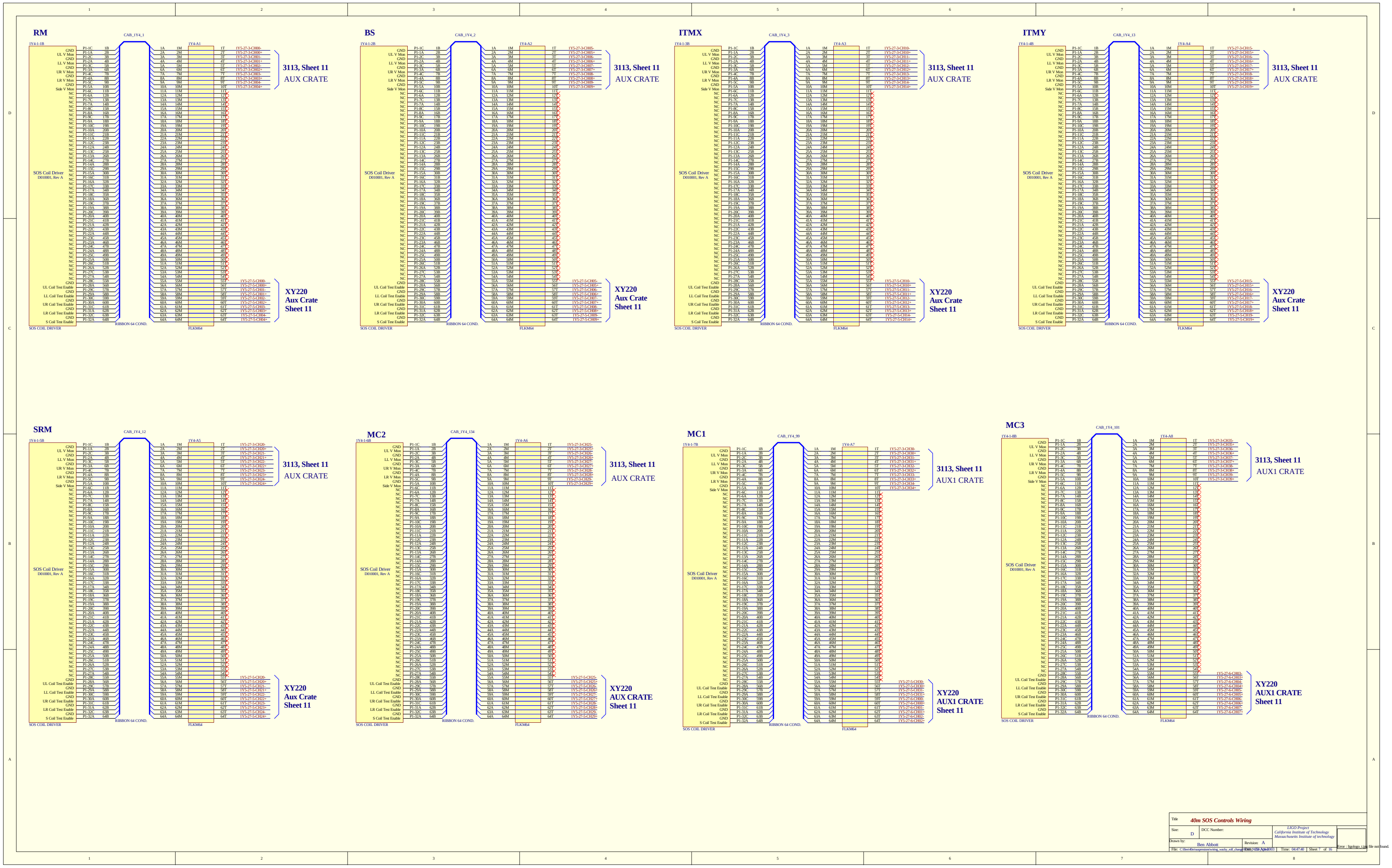

MC1
MC3
From SOS Dewhite 1Y5-18-2, Sheet 5
From SOS Dewhite 1Y5-18-4, Sheet 5
To MC3 PD Inteface Side Out
To DAQ Inteface 1Y5-8 J9B
DAQ LEMO Interface D080147-A CH 25 and 26
DAQ LEMO Interface D080147-A CH 27 and 28
DAQ LEMO Interface D080147-A CH 31 and 32
DAQ LEMO Interface D080147-A CH 29 and 30
DAQ Interface Chassis D080147-A Output Connectors
IC5110 BIB
Channel Assignments
Channel #
Signal
1 RM Side PD
2 BS Side PD
3 NC
4 NC
5 NC
6 NC
7 NC
8 NC
9 NC
10 NC
11 NC
12 NC
13 NC
14 NC
15 ITMX Side PD
16 ITMY Side PD
17 SRM Side PD
18 MC2 Side PD
19 NC
20 NC
21 NC
22 NC
23 NC
24 NC
25 NC
26 NC
27 NC
28 NC
29 NC
30 NC
31 MC1 Side PD
32 MC3 Side PD
40m SOS Controls Wiring
LIGO Project
California Institute of Technology
Massachusetts Institute of Technology
Dave Ableson
Revision: A
Sheet 1 of 4

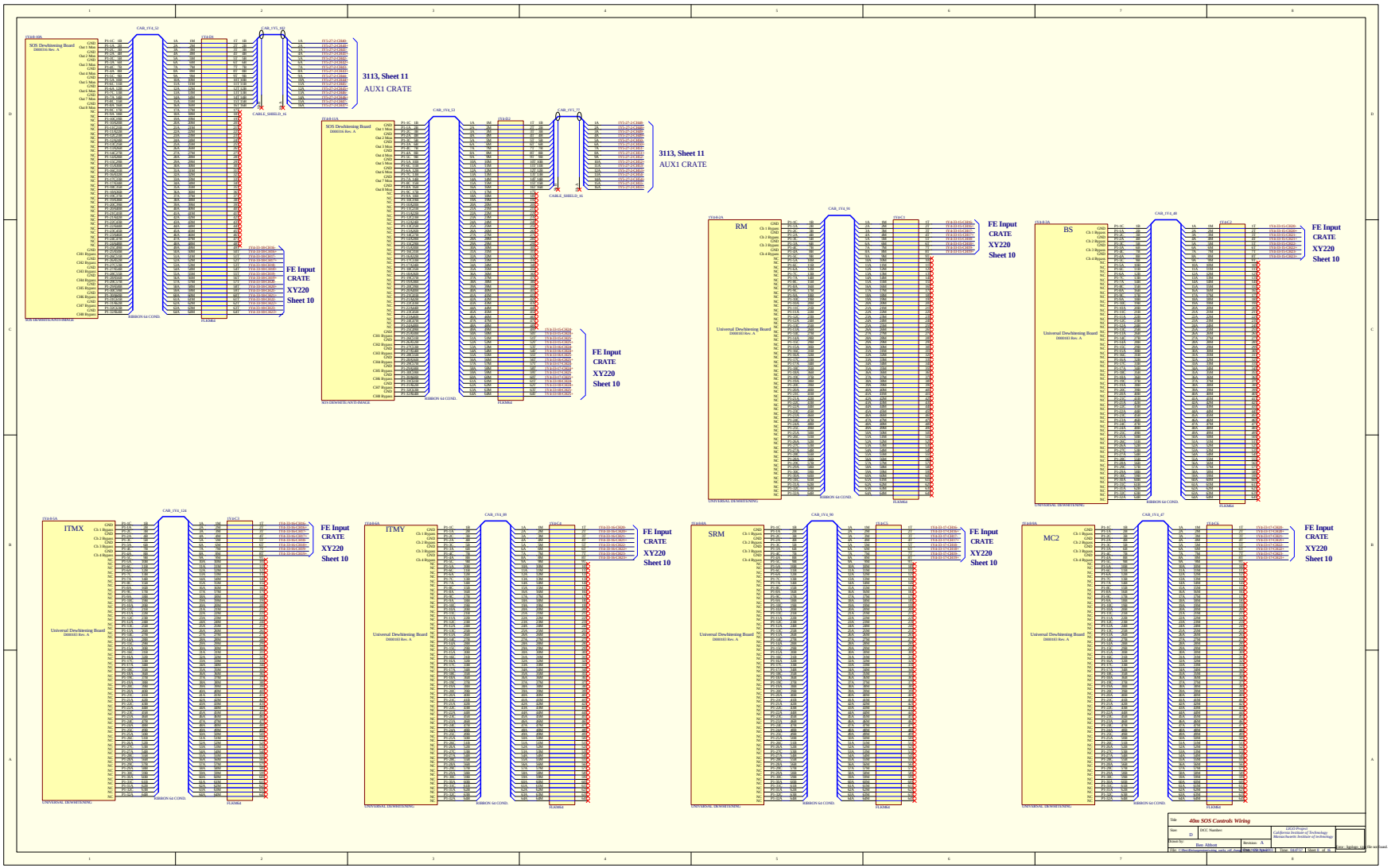


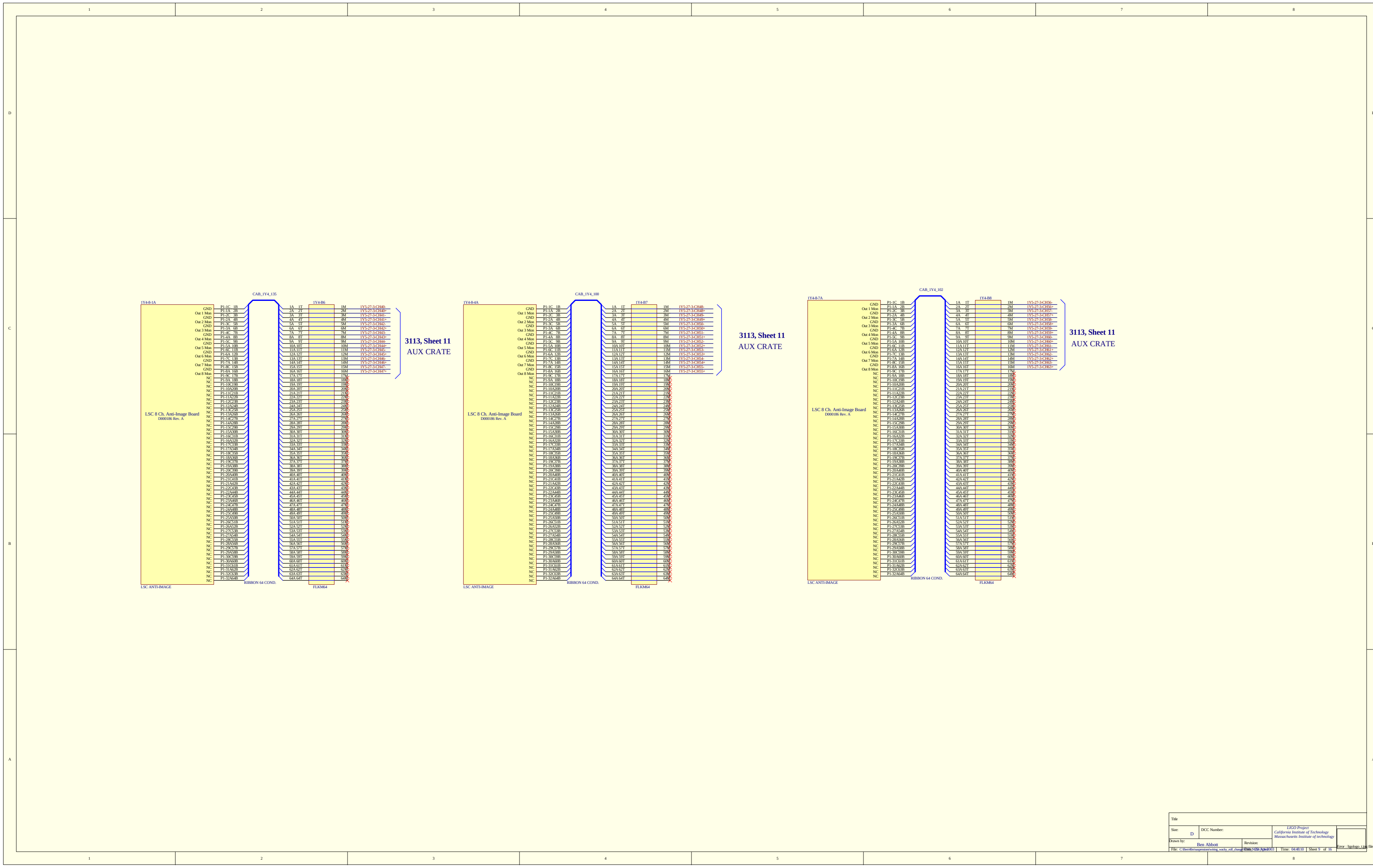
Title	40m SOS Controls Wiring
Size:	D
DCC Number:	
Drawn by:	Ben Abbott
Revision:	A
	LIGO Project California Institute of Technology Massachusetts Institute of technology
Time:	04:46:58
Sheet	5 of 16

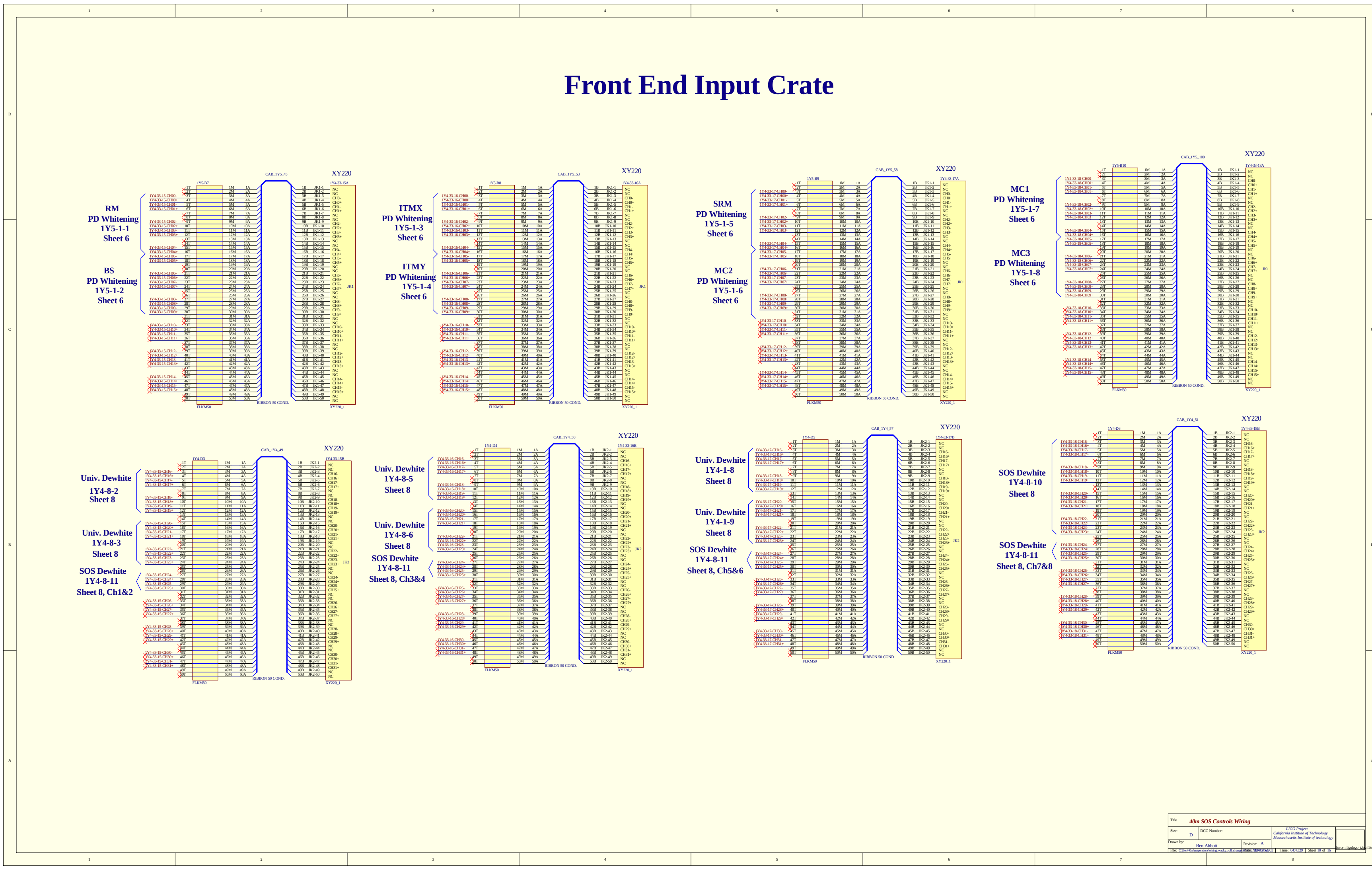
Error : ligologo_t.jpg file not found.

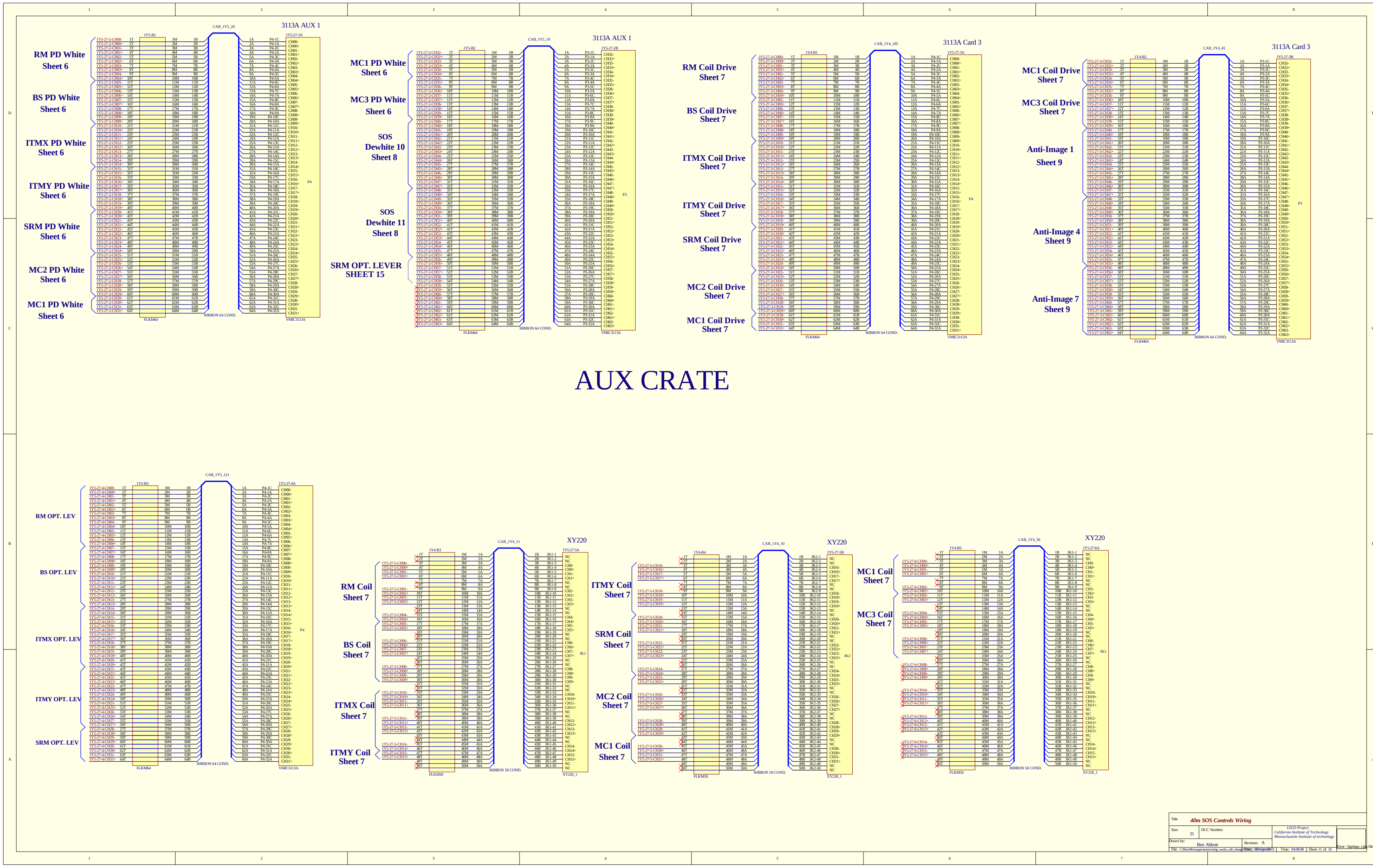

RM
SUS PD Whitening Board
D000210 Rev. A
CAB_1Y5_80
3113, Sheet 11
AUX1 CRATE
XY220
FE Input Crate
Sheet 10
BS
ITMX
ITMY
SRM
MC2
MC1
MC3
SUS PD WHITE
RIBBON 64 COND.
FLKM64
Title
40m SOS Controls Wiring
Size: D
DCC Number:
LIGO Project
California Institute of Technology
Massachusetts Institute of technology
Drawn by: Ben Abbott
Revision: A
Time: 04:47:12
Sheet 6 of 16
Error : ligologo_t.jpg file not found.

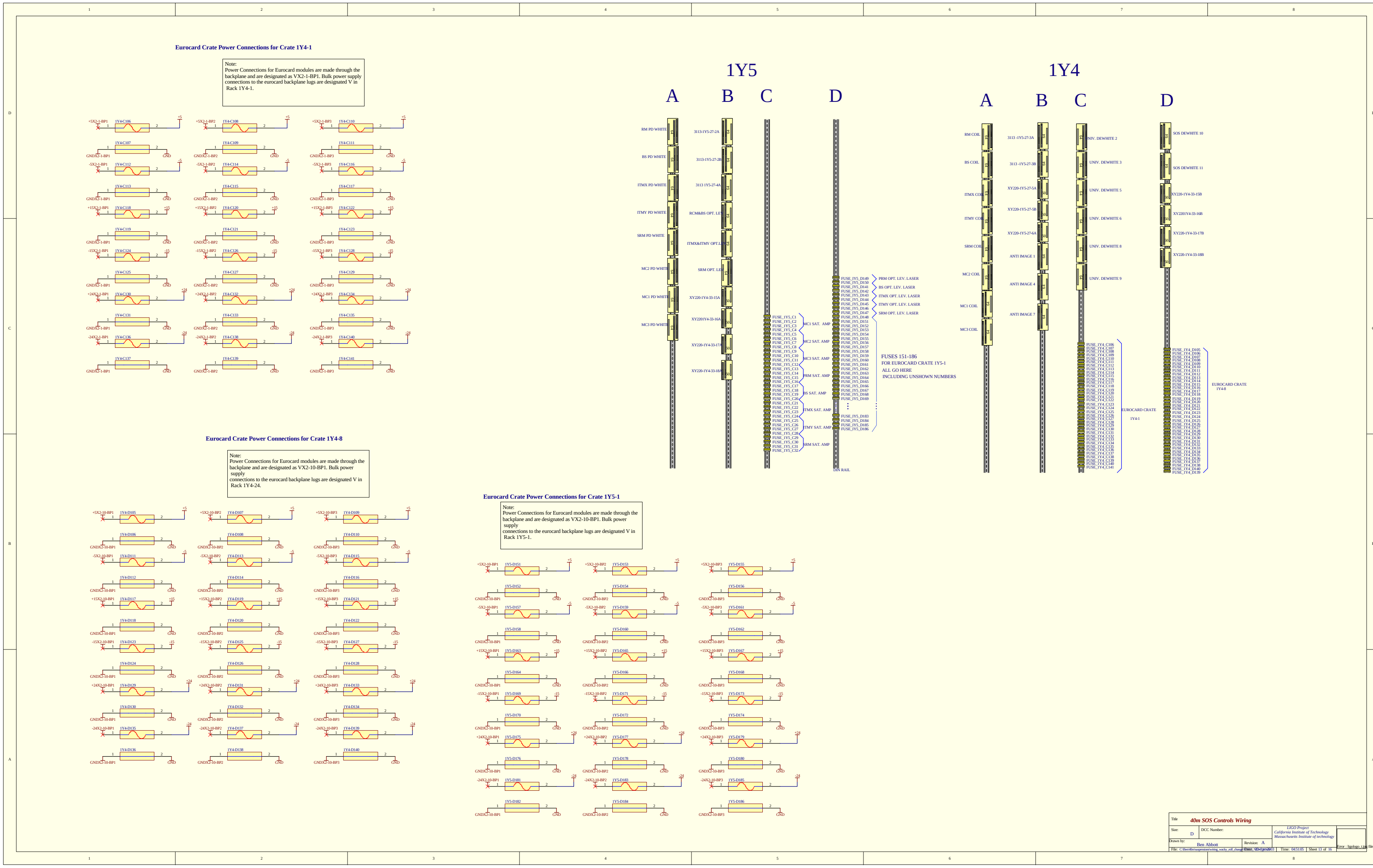

RM
3113, Sheet 11
AUX CRATE
XY220
Aux Crate
Sheet 11
BS
3113, Sheet 11
AUX CRATE
XY220
Aux Crate
Sheet 11
ITMX
3113, Sheet 11
AUX CRATE
XY220
Aux Crate
Sheet 11
ITMY
3113, Sheet 11
AUX CRATE
XY220
Aux Crate
Sheet 11
SRM
3113, Sheet 11
AUX CRATE
XY220
Aux Crate
Sheet 11
MC2
3113, Sheet 11
AUX CRATE
XY220
AUX CRATE
Sheet 11
MC1
3113, Sheet 11
AUX1 CRATE
XY220
AUX1 CRATE
Sheet 11
MC3
3113, Sheet 11
AUX1 CRATE
XY220
AUX1 CRATE
Sheet 11
SOS Coil Driver
D010001, Rev A
SOS COIL DRIVER
RIBBON 64 COND.
FLKM64
Title 40m SOS Controls Wiring
Size: D
DCC Number:
LIGO Project
California Institute of Technology
Massachusetts Institute of technology
Drawn by: Ben Abbott
Revision: A
Time: 04:47:40
Sheet 7 of 16
Error : ligologo_t.jpg file not found.

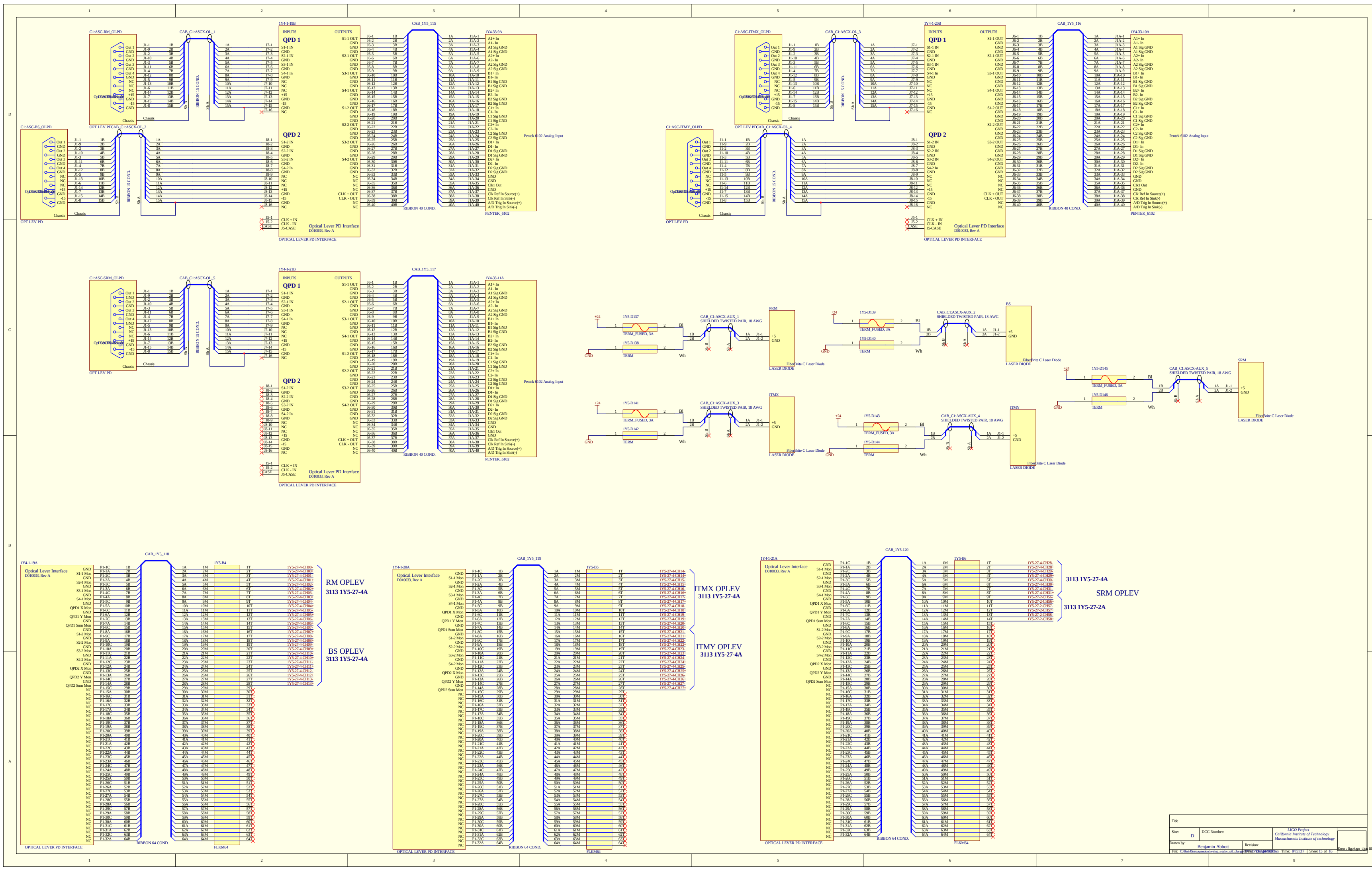

3113, Sheet 11
AUX1 CRATE
FE Input
CRATE
XY220
Sheet 10
RM
BS
ITMX
ITMY
SRM
MC2
SOS Deshittening Board
Universal Deshittening Board
RIBBON 64 COND.
CABLE_SHIELD_16
CABLE_SHIELD_26
Title
40m SOS Controls Wiring
LIGO Project
California Institute of Technology
Massachusetts Institute of Technology
Drawn by:
Dan Abbott
Revision: A
Sheet 8 of 46


1Y4-8-1A
LSC 8 Ch. Anti-Image Board
D000186 Rev. A
LSC ANTI-IMAGE
CAB_1Y4_135
RIBBON 64 COND.
1Y4-B6
FLKM64
1Y5-27-3-CH40-
1Y5-27-3-CH40+
1Y5-27-3-CH41-
1Y5-27-3-CH41+
1Y5-27-3-CH42-
1Y5-27-3-CH42+
1Y5-27-3-CH43-
1Y5-27-3-CH43+
1Y5-27-3-CH44-
1Y5-27-3-CH44+
1Y5-27-3-CH45-
1Y5-27-3-CH45+
1Y5-27-3-CH46-
1Y5-27-3-CH46+
1Y5-27-3-CH47-
1Y5-27-3-CH47+
3113, Sheet 11
AUX CRATE
1Y4-8-4A
LSC 8 Ch. Anti-Image Board
D000186 Rev. A
LSC ANTI-IMAGE
CAB_1Y4_100
RIBBON 64 COND.
1Y4-B7
FLKM64
1Y5-27-3-CH48-
1Y5-27-3-CH48+
1Y5-27-3-CH49-
1Y5-27-3-CH49+
1Y5-27-3-CH50-
1Y5-27-3-CH50+
1Y5-27-3-CH51-
1Y5-27-3-CH51+
1Y5-27-3-CH52-
1Y5-27-3-CH52+
1Y5-27-3-CH53-
1Y5-27-3-CH53+
1Y5-27-3-CH54-
1Y5-27-3-CH54+
1Y5-27-3-CH55-
1Y5-27-3-CH55+
3113, Sheet 11
AUX CRATE
1Y4-8-7A
LSC 8 Ch. Anti-Image Board
D000186 Rev. A
LSC ANTI-IMAGE
CAB_1Y4_102
RIBBON 64 COND.
1Y4-B8
FLKM64
1Y5-27-3-CH56-
1Y5-27-3-CH56+
1Y5-27-3-CH57-
1Y5-27-3-CH57+
1Y5-27-3-CH58-
1Y5-27-3-CH58+
1Y5-27-3-CH59-
1Y5-27-3-CH59+
1Y5-27-3-CH60-
1Y5-27-3-CH60+
1Y5-27-3-CH61-
1Y5-27-3-CH61+
1Y5-27-3-CH62-
1Y5-27-3-CH62+
1Y5-27-3-CH63-
1Y5-27-3-CH63+
3113, Sheet 11
AUX CRATE
Title
Size: D
DCC Number:
Drawn by: Ben Abbott
Revision:
LIGO Project
California Institute of Technology
Massachusetts Institute of technology
Time: 04:48:10
Sheet 9 of 16
Error : ligologo_t.jpg file not found.

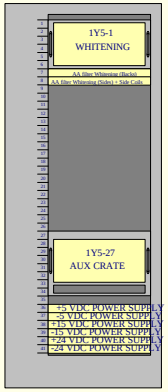

Front End Input Crate
RM
PD Whitening
1Y5-1-1
Sheet 6
BS
PD Whitening
1Y5-1-2
Sheet 6
ITMX
PD Whitening
1Y5-1-3
Sheet 6
ITMY
PD Whitening
1Y5-1-4
Sheet 6
SRM
PD Whitening
1Y5-1-5
Sheet 6
MC2
PD Whitening
1Y5-1-6
Sheet 6
MC1
PD Whitening
1Y5-1-7
Sheet 6
MC3
PD Whitening
1Y5-1-8
Sheet 6
Univ. Dewhite
1Y4-8-2
Sheet 8
Univ. Dewhite
1Y4-8-3
Sheet 8
SOS Dewhite
1Y4-8-11
Sheet 8, Ch1&2
Univ. Dewhite
1Y4-8-5
Sheet 8
Univ. Dewhite
1Y4-8-6
Sheet 8
SOS Dewhite
1Y4-8-11
Sheet 8, Ch3&4
Univ. Dewhite
1Y4-1-8
Sheet 8
Univ. Dewhite
1Y4-1-9
Sheet 8
SOS Dewhite
1Y4-8-11
Sheet 8, Ch5&6
SOS Dewhite
1Y4-8-10
Sheet 8
SOS Dewhite
1Y4-8-11
Sheet 8, Ch7&8
XY220
RIBBON 50 COND.
FLKM50
Title 40m SOS Controls Wiring
Size: D
DCC Number:
LIGO Project
California Institute of Technology
Massachusetts Institute of technology
Drawn by: Ben Abbott
Revision: A
Time: 04:48:29
Sheet 10 of 16
Error : ligologo_t.jpg file not found.


AUX CRATE
3113A AUX 1
3113A AUX 1
3113A Card 3
3113A Card 3
RM PD White Sheet 6
BS PD White Sheet 6
ITMX PD White Sheet 6
ITMY PD White Sheet 6
SRM PD White Sheet 6
MC2 PD White Sheet 6
MC1 PD White Sheet 6
MC1 PD White Sheet 6
MC3 PD White Sheet 6
SOS Dewhite 10 Sheet 8
SOS Dewhite 11 Sheet 8
SRM OPT. LEVER SHEET 15
RM Coil Drive Sheet 7
BS Coil Drive Sheet 7
ITMX Coil Drive Sheet 7
ITMY Coil Drive Sheet 7
SRM Coil Drive Sheet 7
MC2 Coil Drive Sheet 7
MC1 Coil Drive Sheet 7
MC1 Coil Drive Sheet 7
MC3 Coil Drive Sheet 7
Anti-Image 1 Sheet 9
Anti-Image 4 Sheet 9
Anti-Image 7 Sheet 9
RM OPT. LEV
BS OPT. LEV
ITMX OPT. LEV
ITMY OPT. LEV
SRM OPT. LEV
XY220
XY220
XY220
RM Coil Sheet 7
BS Coil Sheet 7
ITMX Coil Sheet 7
ITMY Coil Sheet 7
ITMY Coil Sheet 7
SRM Coil Sheet 7
MC2 Coil Sheet 7
MC1 Coil Sheet 7
MC1 Coil Sheet 7
MC3 Coil Sheet 7
Title 40m SOS Controls Wiring
Size: D
DCC Number:
LIGO Project
California Institute of Technology
Massachusetts Institute of technology
Drawn by: Ben Abbott
Revision: A
Time: 04:48:48
Sheet 11 of 16
Error : ligologo_t.jpg file not found.

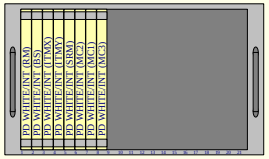

Eurocard Crate Power Connections for Crate 1Y4-1
Note:
Power Connections for Eurocard modules are made through the backplane and are designated as VX2-1-BP1. Bulk power supply connections to the eurocard backplane lugs are designated V in Rack 1Y4-1.
Eurocard Crate Power Connections for Crate 1Y4-8
Note:
Power Connections for Eurocard modules are made through the backplane and are designated as VX2-10-BP1. Bulk power supply
connections to the eurocard backplane lugs are designated V in Rack 1Y4-24.
Eurocard Crate Power Connections for Crate 1Y5-1
Note:
Power Connections for Eurocard modules are made through the backplane and are designated as VX2-10-BP1. Bulk power supply
connections to the eurocard backplane lugs are designated V in Rack 1Y5-1.
1Y5
A
B
C
D
1Y4
PRM OPT. LEV. LASER
BS OPT. LEV. LASER
ITMX OPT. LEV. LASER
ITMY OPT. LEV. LASER
SRM OPT. LEV. LASER
FUSES 151-186
FOR EUROCARD CRATE 1Y5-1
ALL GO HERE
INCLUDING UNSHOWN NUMBERS
MC2 COIL
MC1 COIL
MC3 COIL
Title
40m SOS Controls Wiring
Size:
D
DCC Number:
LIGO Project
California Institute of Technology
Massachusetts Institute of technology
Drawn by:
Ben Abbott
Revision: A
Time: 04:51:05
Sheet 13 of 16
Error : ligologo_t.jpg file not found.


RM OPLEV
3113 1Y5-27-4A
BS OPLEV
3113 1Y5-27-4A
ITMX OPLEV
3113 1Y5-27-4A
ITMY OPLEV
3113 1Y5-27-4A
3113 1Y5-27-4A
SRM OPLEV
3113 1Y5-27-2A

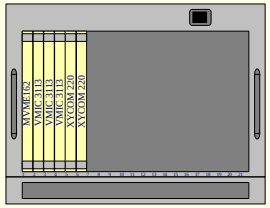
RACK 1Y5



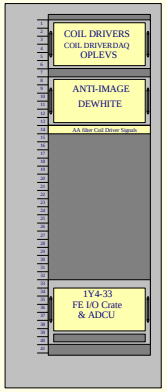
1Y5-1



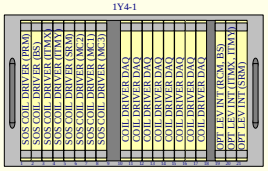
1Y5-27



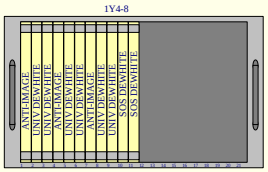
RACK 1Y4



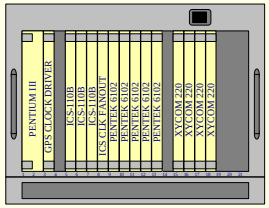
1Y4-1



1Y4-8



1Y4-33



Title: **40m SOS Controls Wiring**

Size: D | DCC Number:

Drawn by:

Revision:

LIGO Project
California Institute of Technology
Massachusetts Institute of Technology

File: C:\Documents\cvs\cds_sch\...\sos_wiring.vsd | Sheet: 31 of 46

Any hardcopy is file not found.