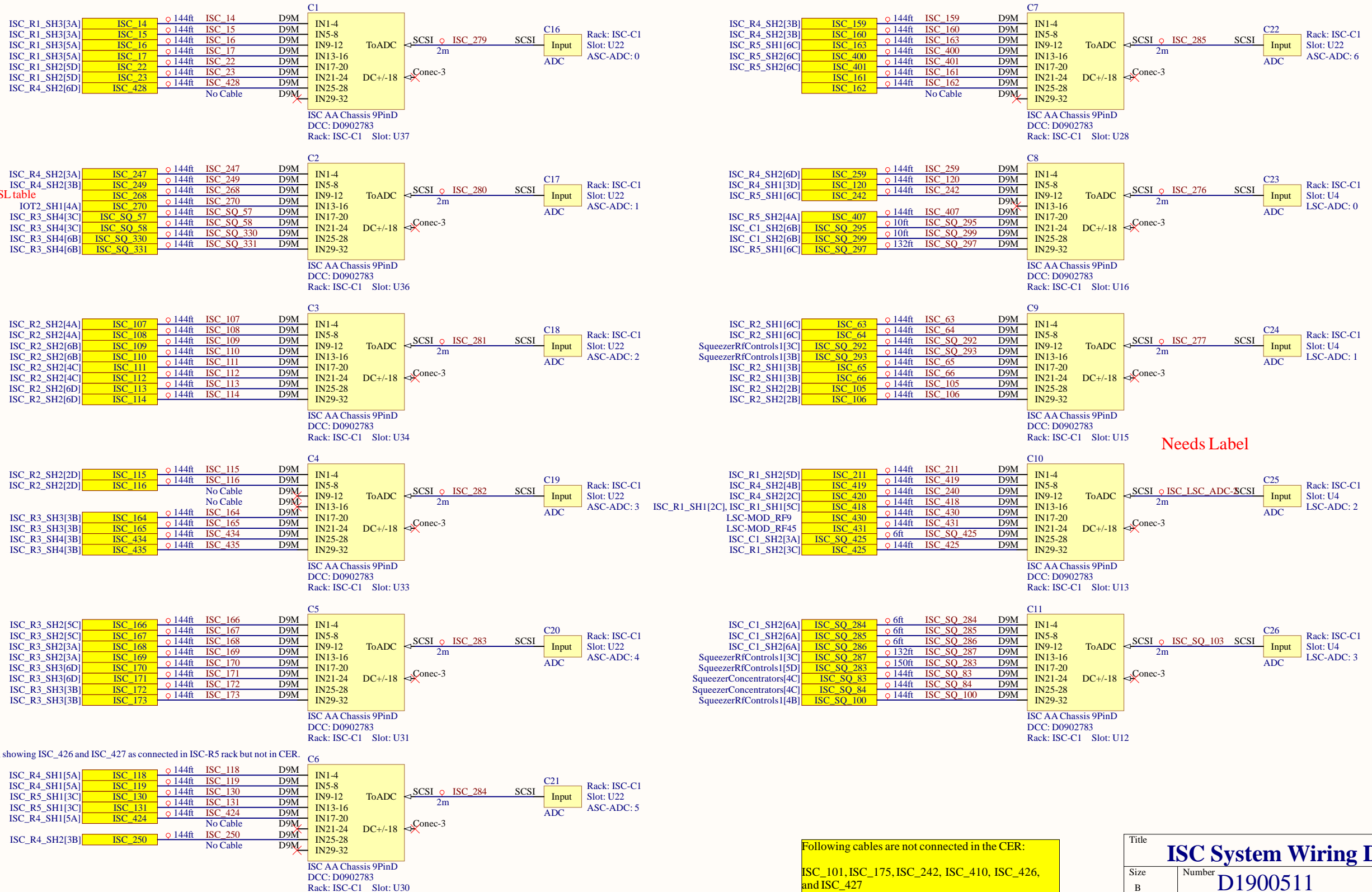


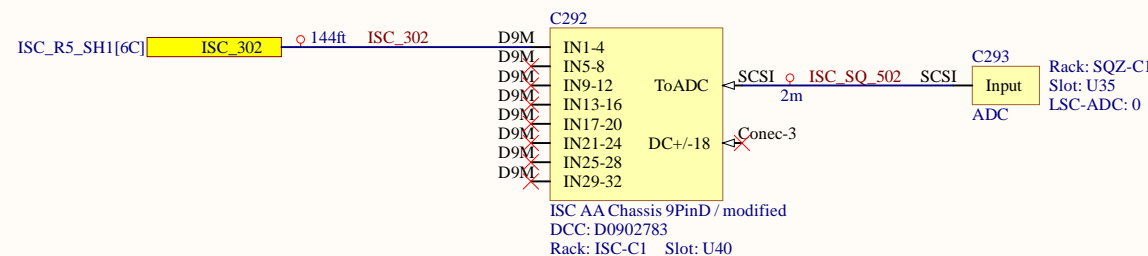
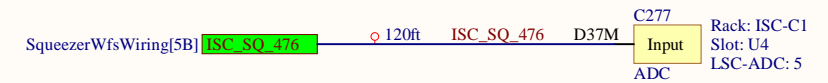
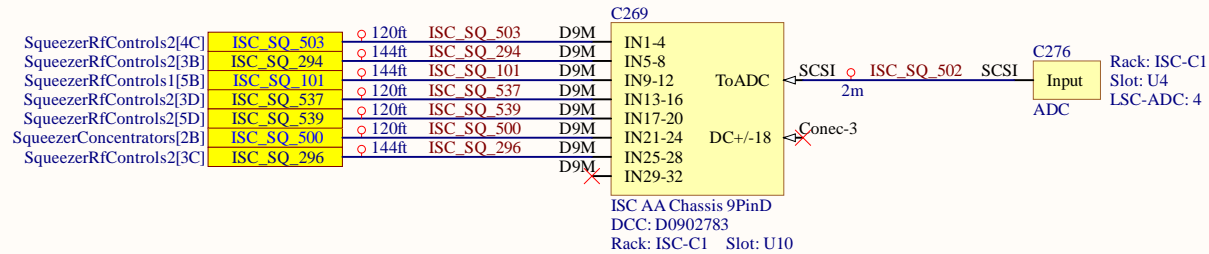
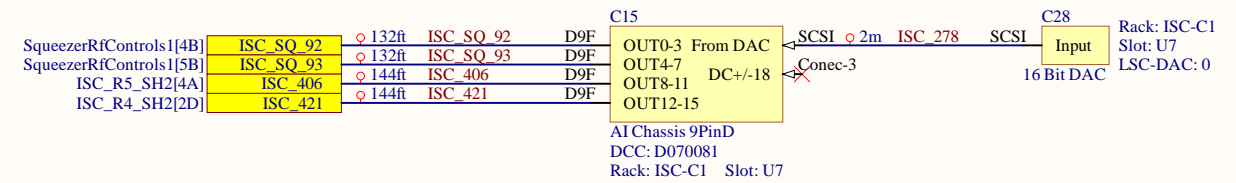
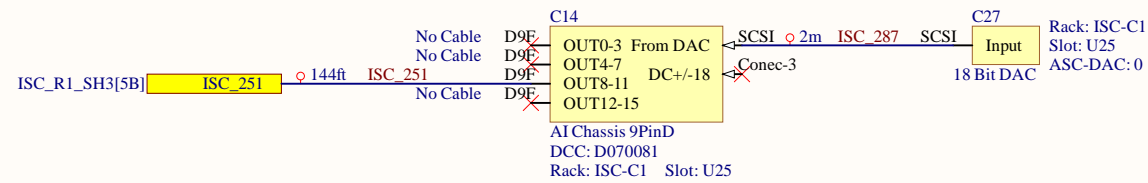
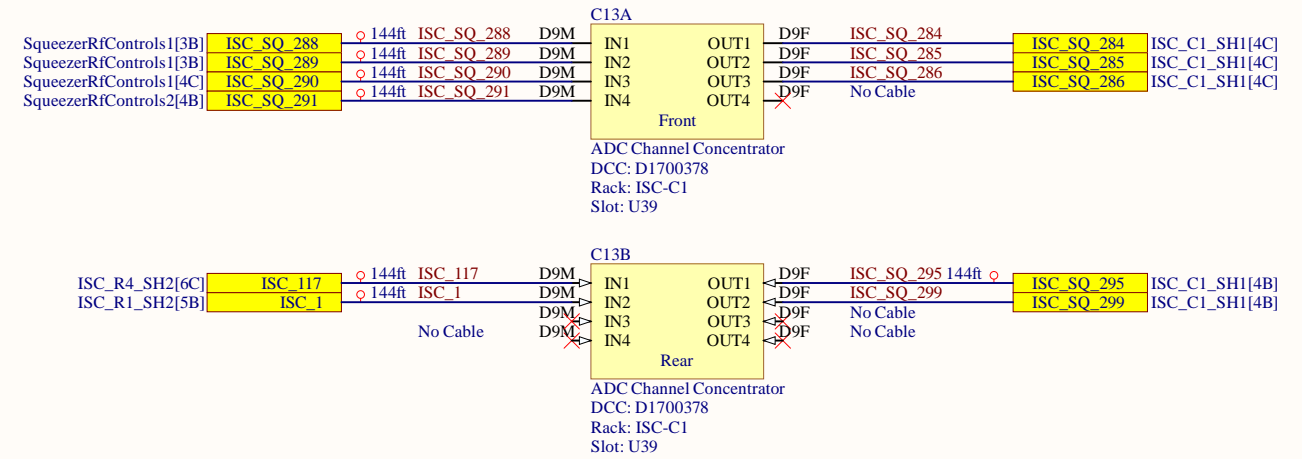
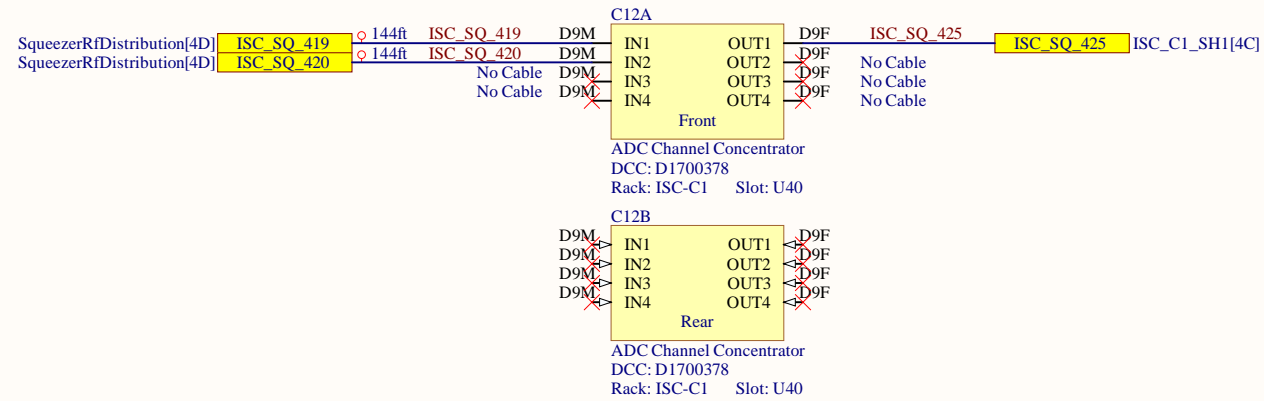
ISC-C1 Rack



Following cables are not connected in the CER:
 ISC_101, ISC_175, ISC_242, ISC_410, ISC_426,
 and ISC_427

Title ISC System Wiring Diagram		
Size B	Number D1900511	Revision V9
Date: 10/31/2023	Sheet of 1	38
File: C:\Users\...ISC_C1_SH1.SchDoc	Drawn By: Filiberto Clara	

ISC-C1 Rack

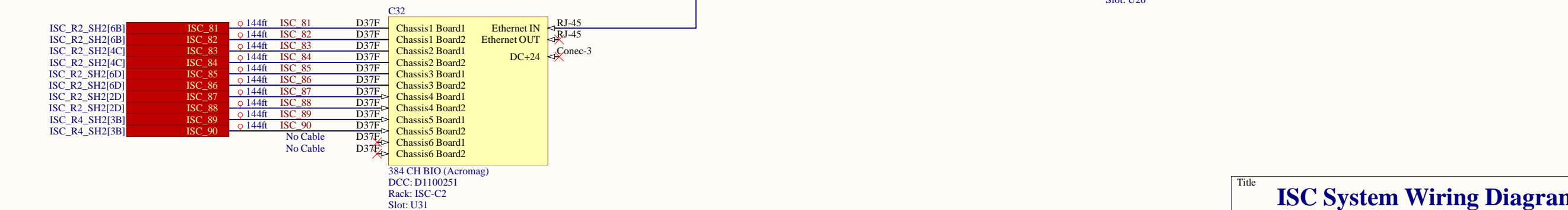
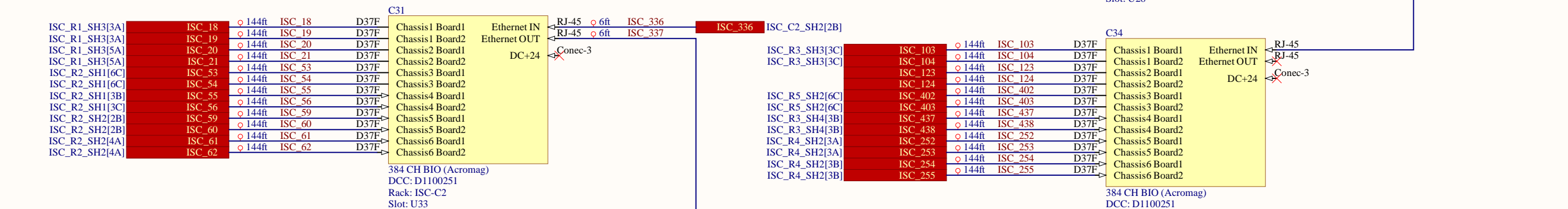
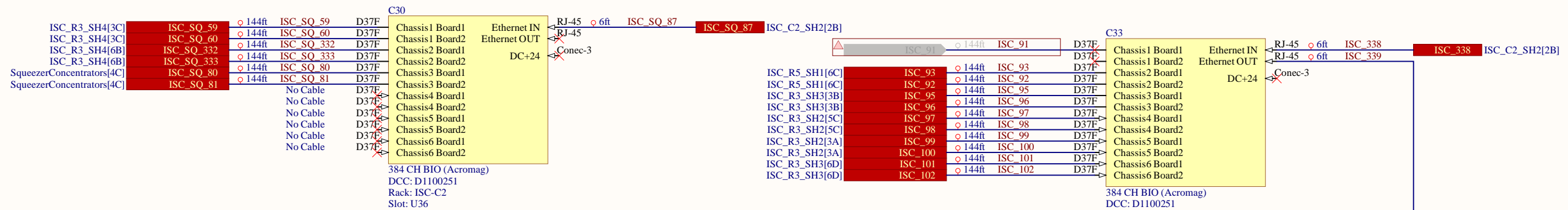
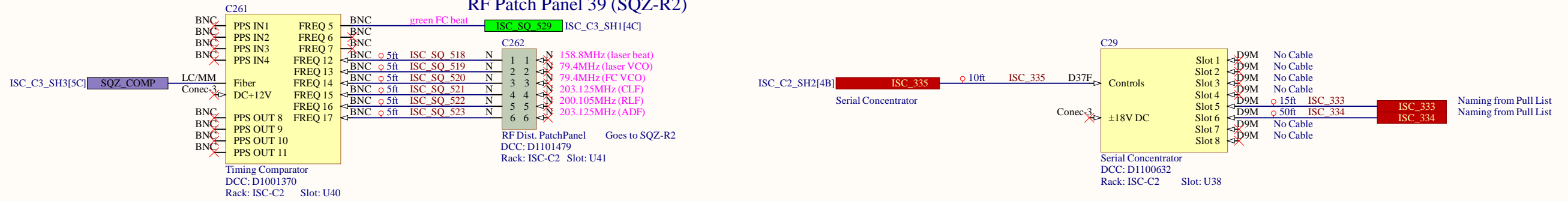


SQZ-C1 Rack

Title		
ISC System Wiring Diagram		
Size	Number	Revision
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Date:	10/31/2023	Sheet of 2 38
File:	C:\Users\...ISC_C1_SH2.SchDoc	Drawn By: Filiberto Clara

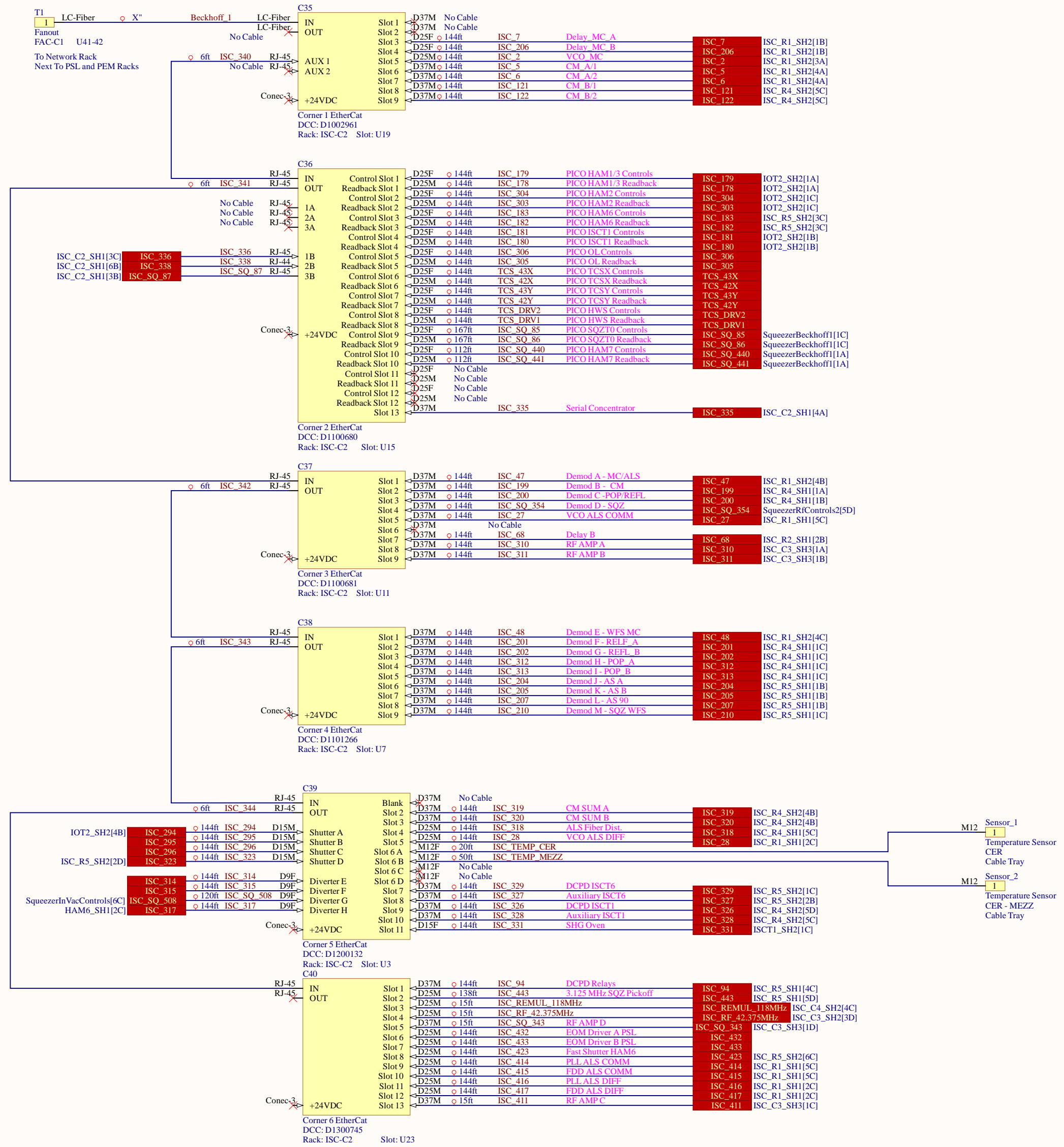
ISC-C2 Rack

RF Patch Panel 39 (SQZ-R2)



Title			ISC System Wiring Diagram		
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File:	C:\Users\...\ISC_C2_SH1.SchDoc	Drawn By:	Filiberto Clara		

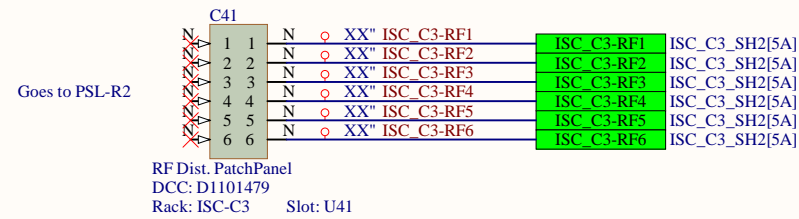
ISC-C2 Rack



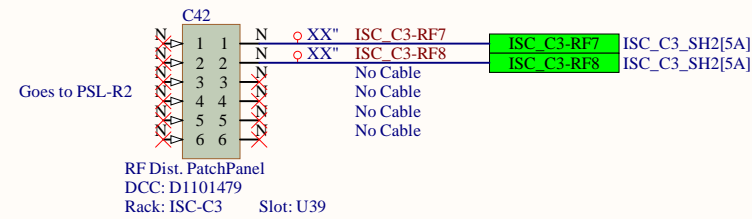
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Size	Number	Revision
C	D1900511	V9
Date:	10/31/2023	Sheet of 38
File:	C:\Users\...ISC_C2_SH2.SchDoc	Drawn By: Filiberto Clara

ISC-C3 Rack

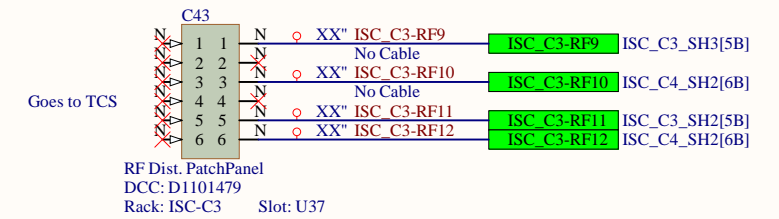
RF Patch Panel 7 (PSL)



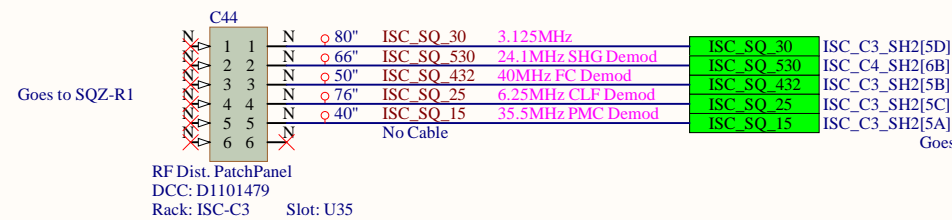
RF Patch Panel 8 (PSL)



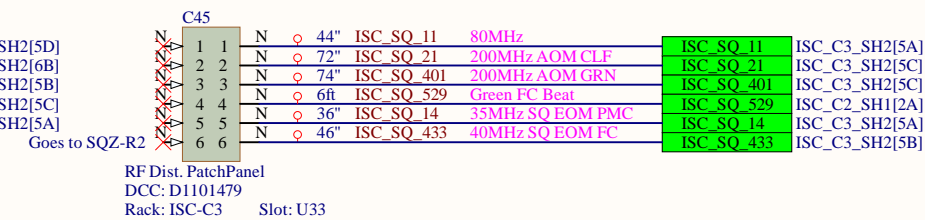
RF Patch Panel 9 (TCS)



RF Patch Panel 32 (SQZ-R1)



RF Patch Panel 33 (SQZ-R2)



Cables that are removed
ISC_SQ_31
ISC_SQ_12
ISC_SQ_78

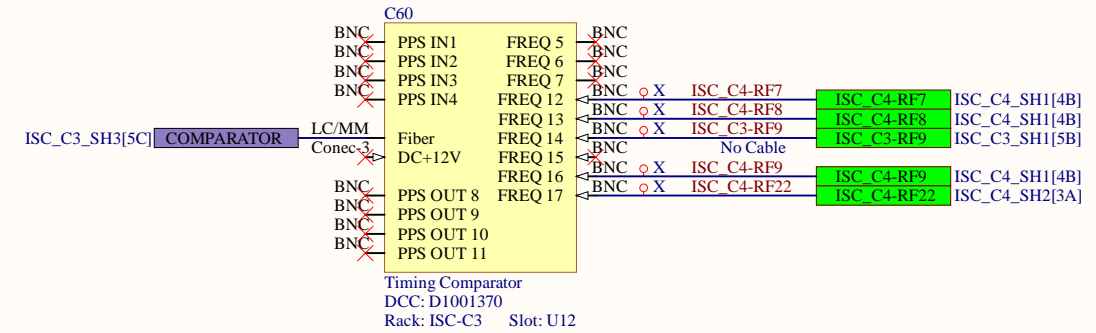
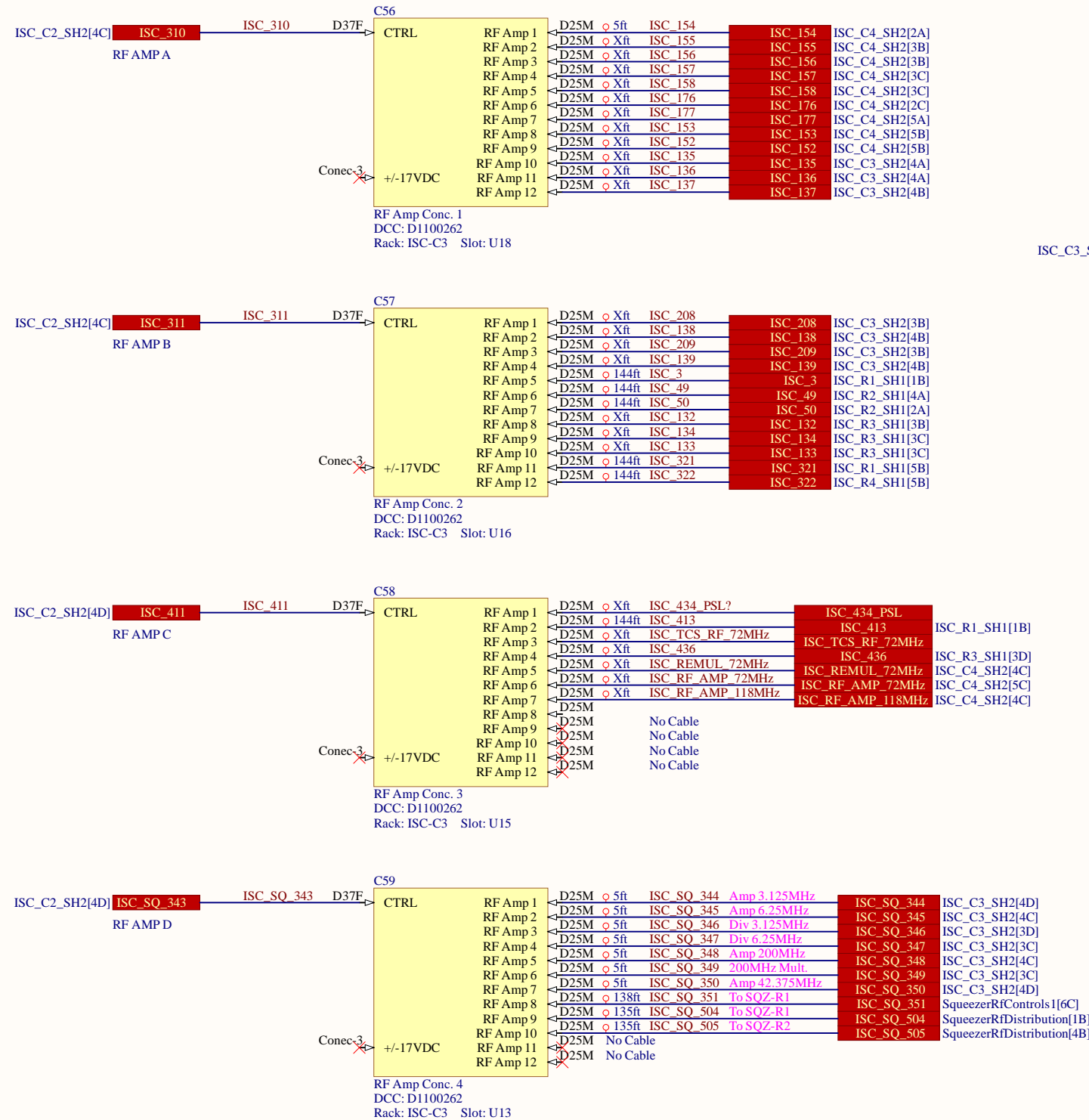
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Size	Number	Revision			
B	D1900511	V9			
Date:	10/31/2023	Sheet of	5	38	
File:	C:\Users\...ISC_C3_SH1.SchDoc	Drawn By:	Filiberto Clara		

ISC-C3 Rack

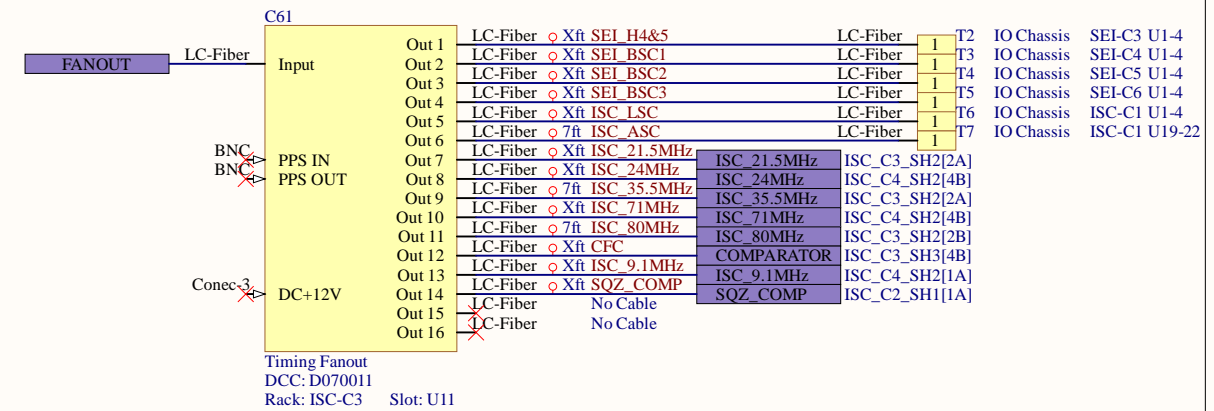


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Size	Number	Revision
C	D1900511	V9
Date:	10/31/2023	Sheet of 6 38
File:	C:\Users\...ISC_C3_SH2.SchDoc	Drawn By: Filiberto Clara

ISC-C3 Rack



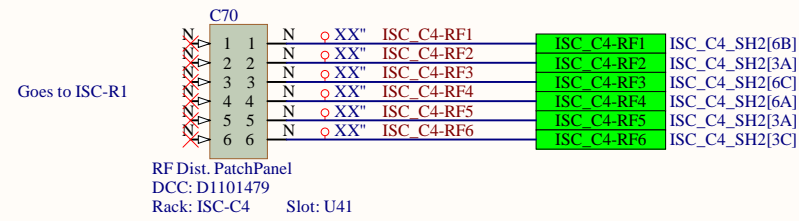
Need Locations of other ends.
 SEI IO Chassis



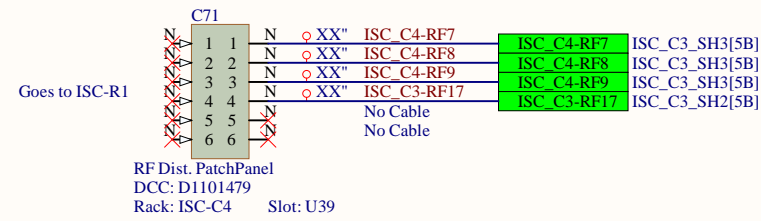
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Size	Number	Revision
B	D1900511	V9
Date:	10/31/2023	Sheet of 7 38
File:	C:\Users\...ISC_C3_SH3.SchDoc	Drawn By: Filiberto Clara

ISC-C4 Rack

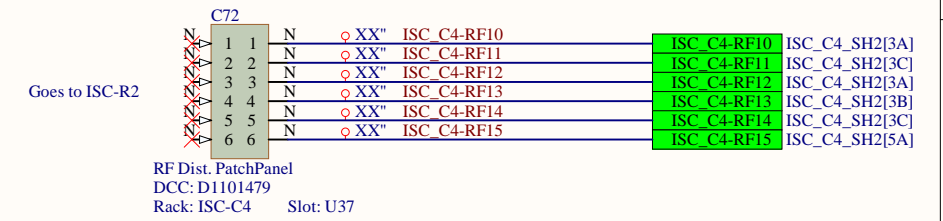
RF Patch Panel 1 (ISC-R1/IO)



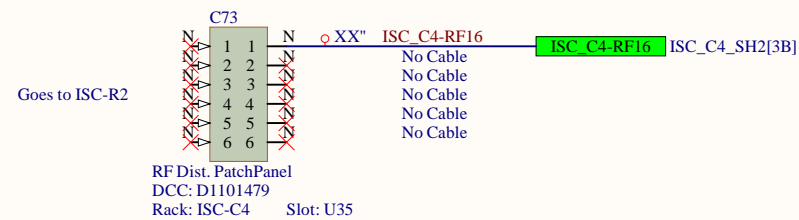
RF Patch Panel 2 (ISC-R1/IO)



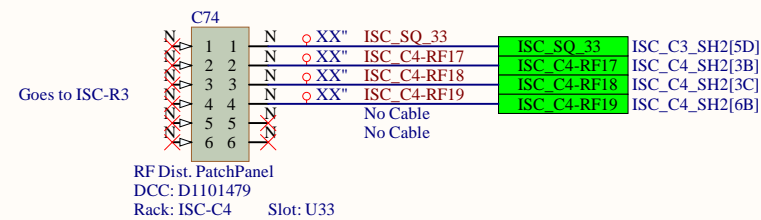
RF Patch Panel 3 (ISC-R2/REFL)



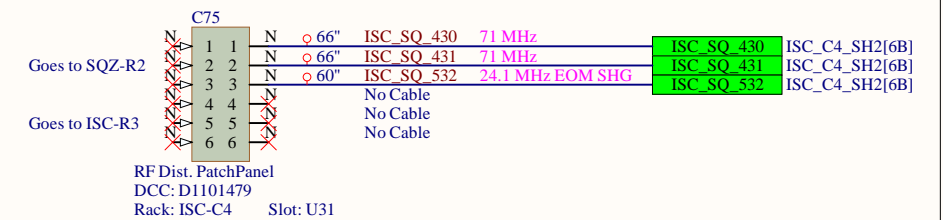
RF Patch Panel 4 (ISC-R2/REFL)



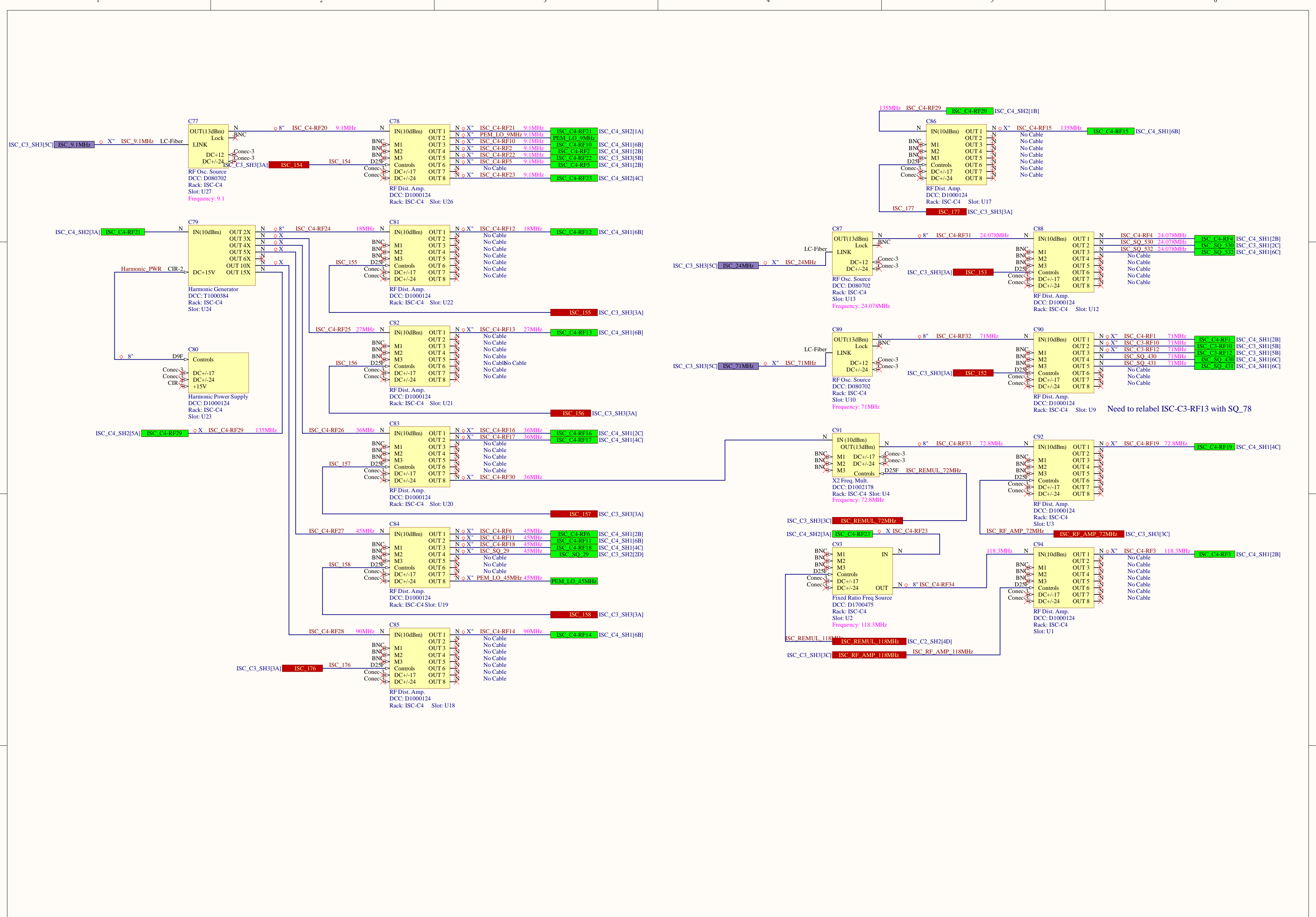
RF Patch Panel 5 (ISC-R3/AS)



RF Patch Panel 6 (SQZ-R2/ISC-R3)



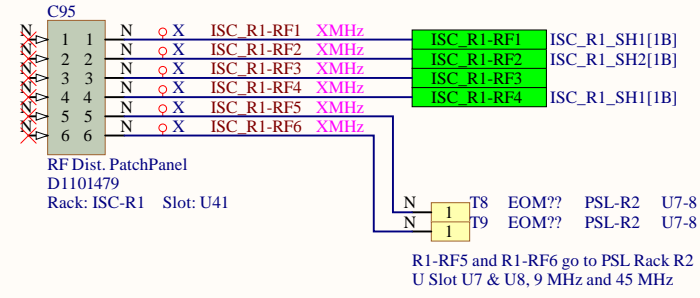
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Size	Number	Revision
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Date:	10/31/2023	Sheet of 8 38
File:	C:\Users\...\ISC_C4_SH1.SchDoc	Drawn By: Filiberto Clara



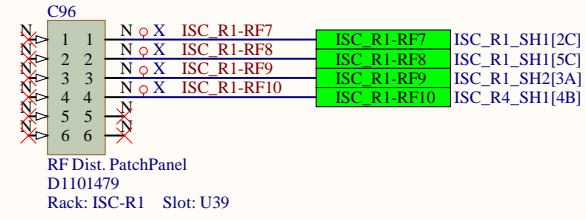
ISC-C4 Rack

Title			
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Size	Number	Revision	
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File:	C:\Users\...ISC_C4_SH2.SchDoc	Drawn By:	Filiberto Clara

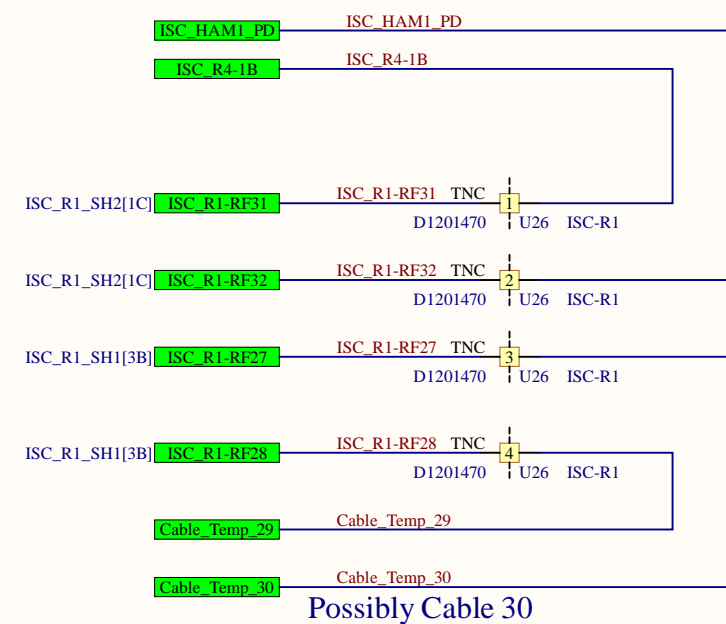
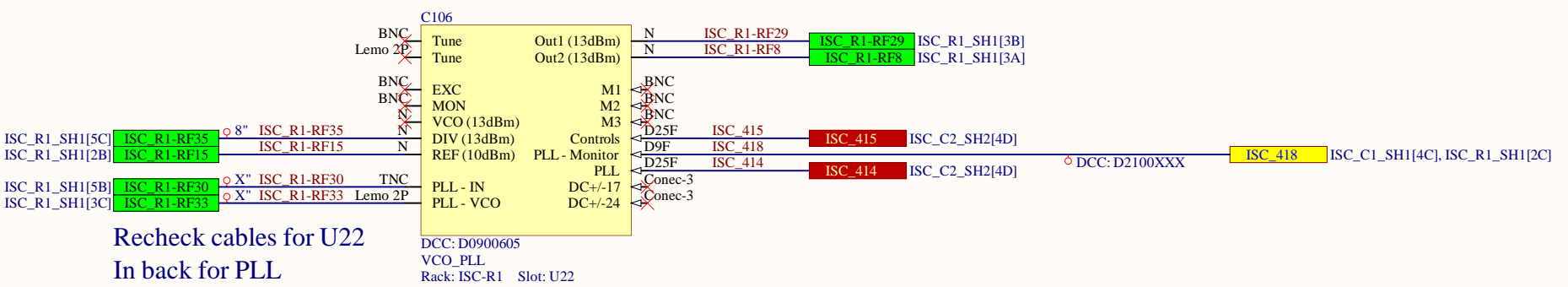
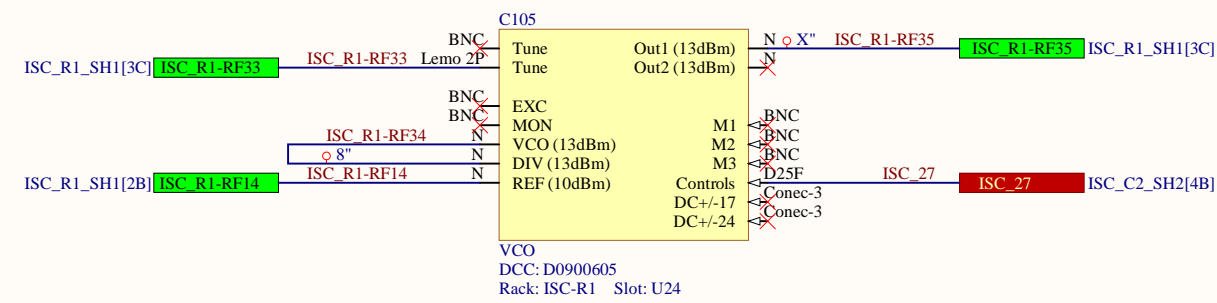
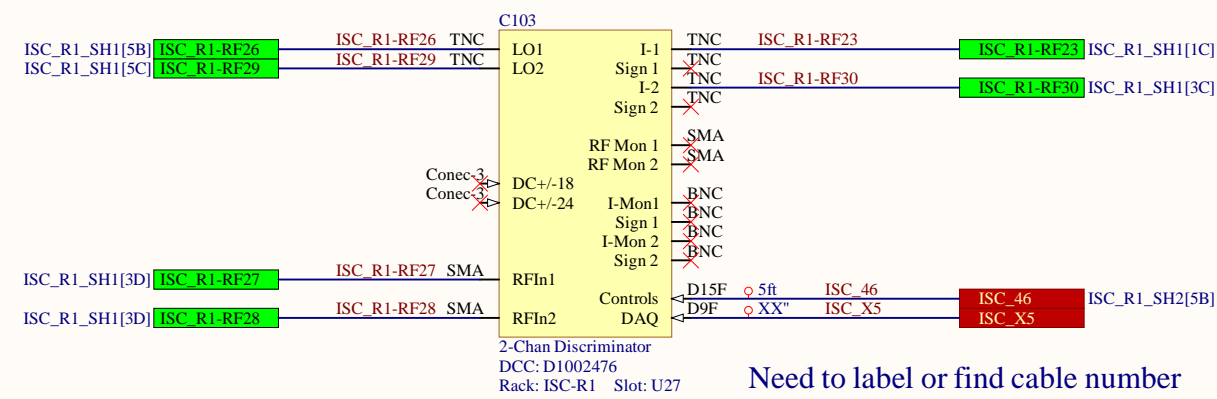
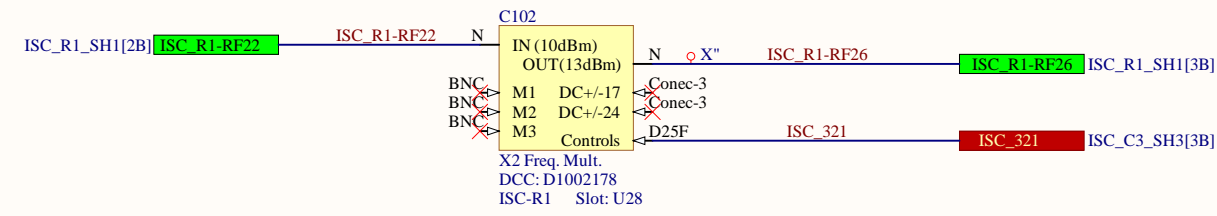
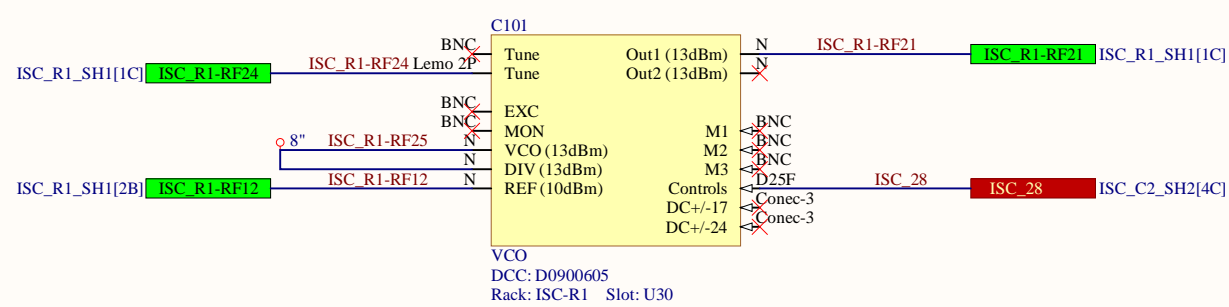
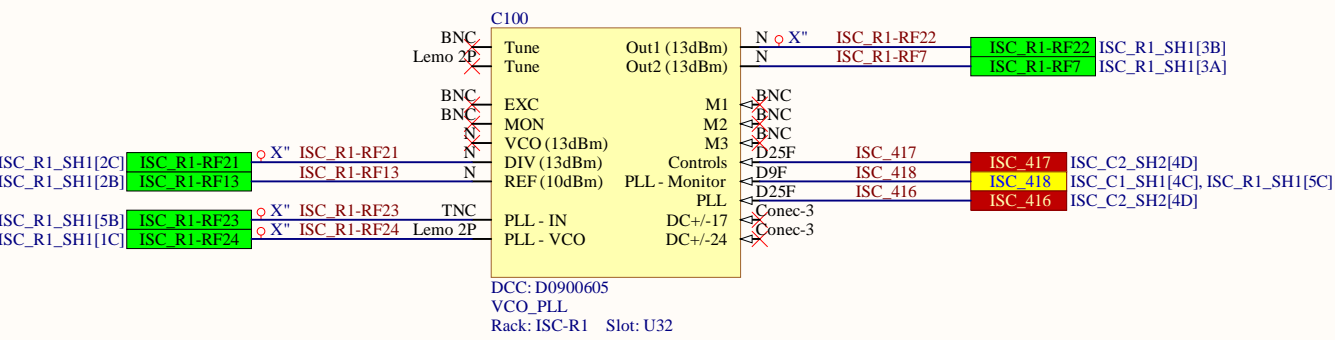
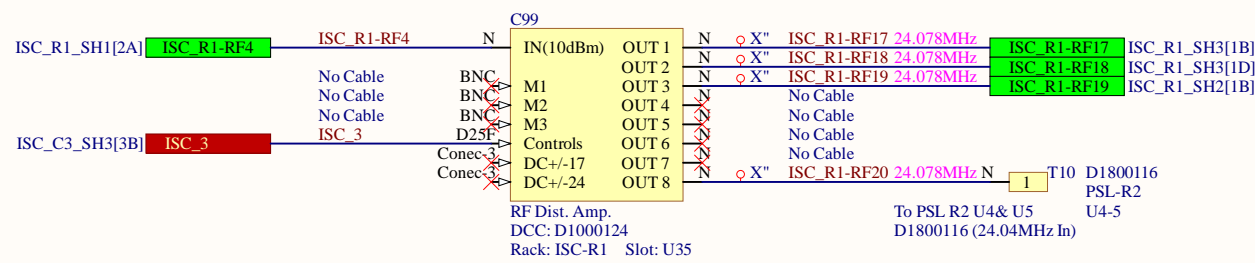
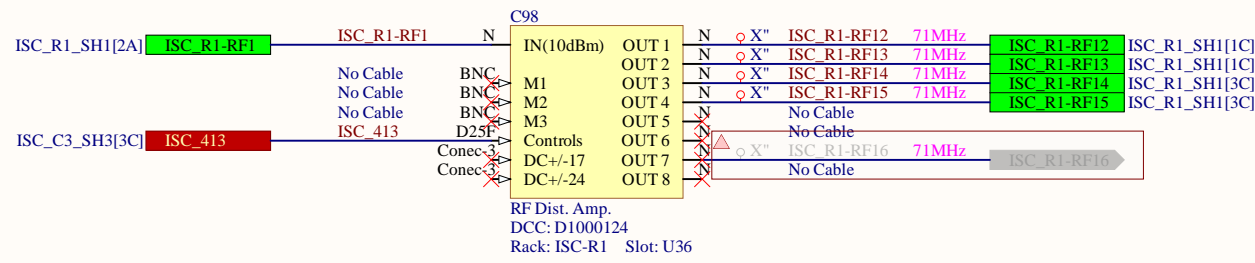
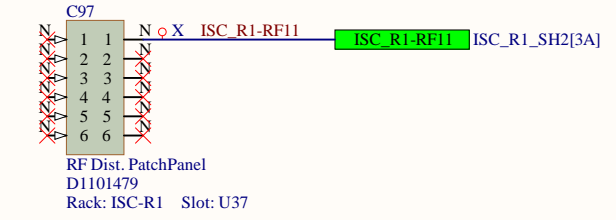
RF Patch Panel 10



RF Patch Panel 11



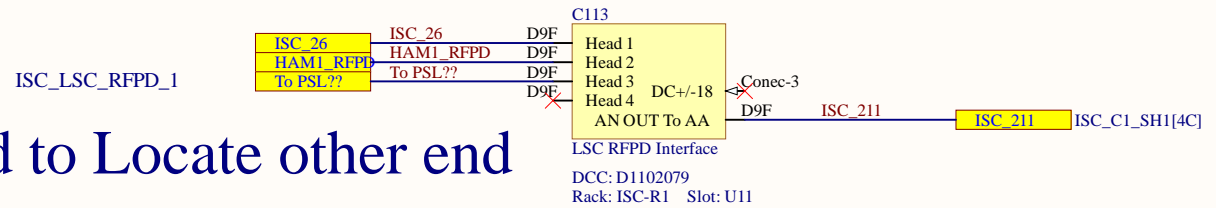
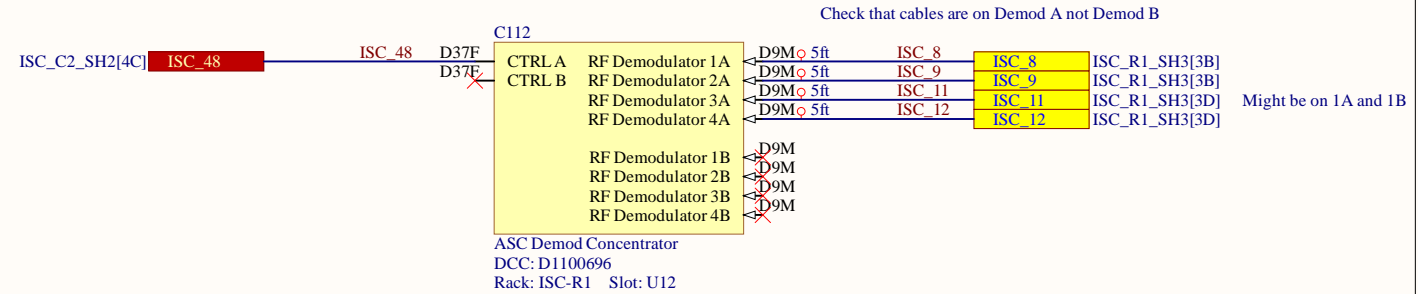
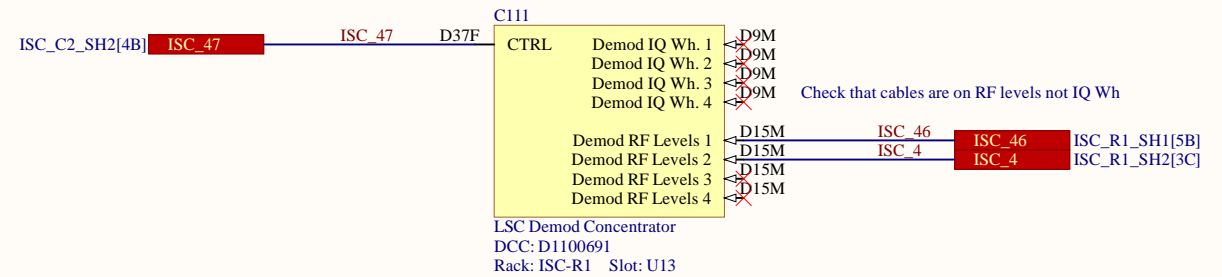
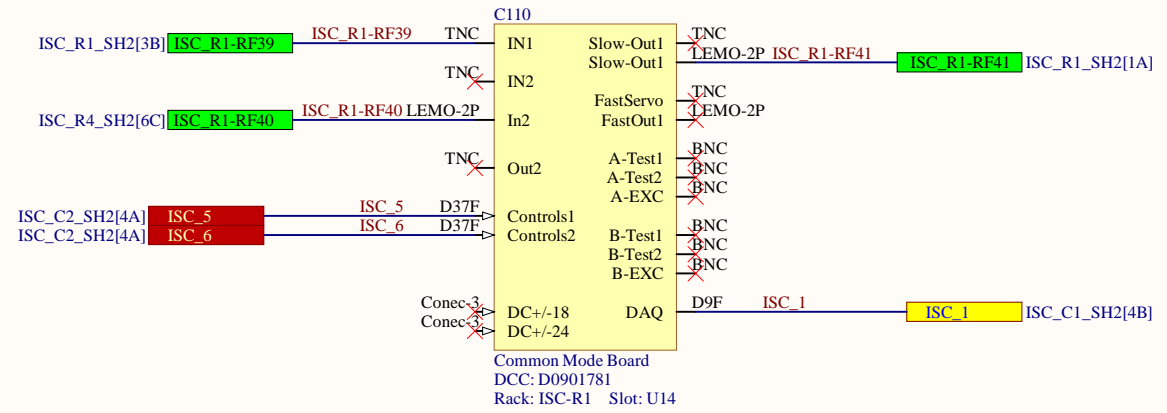
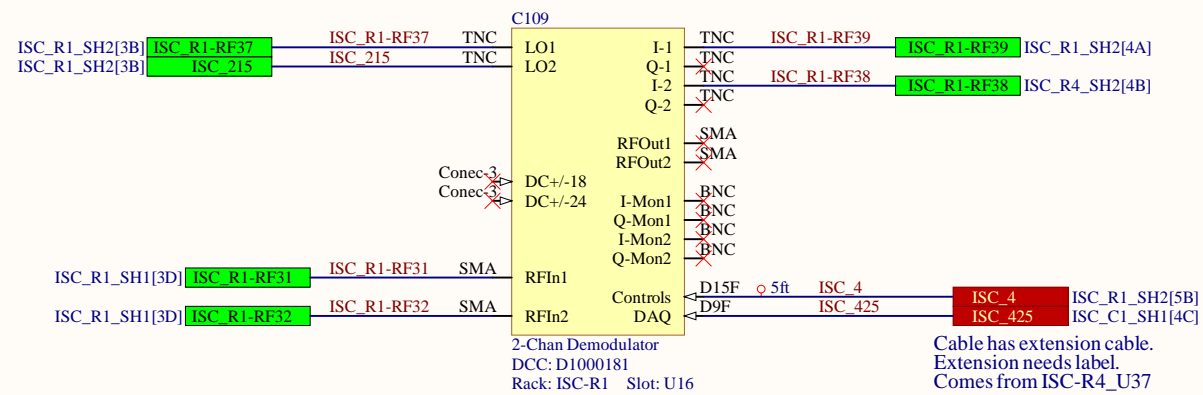
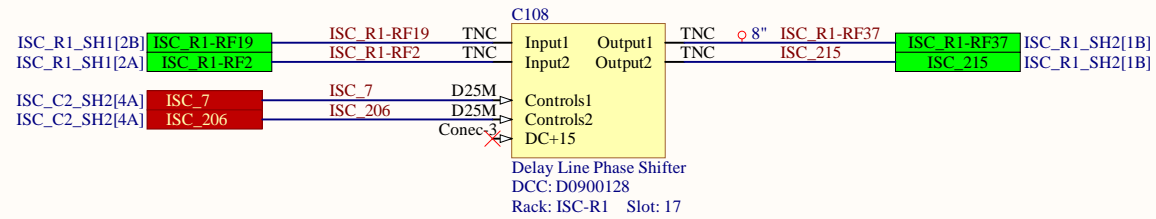
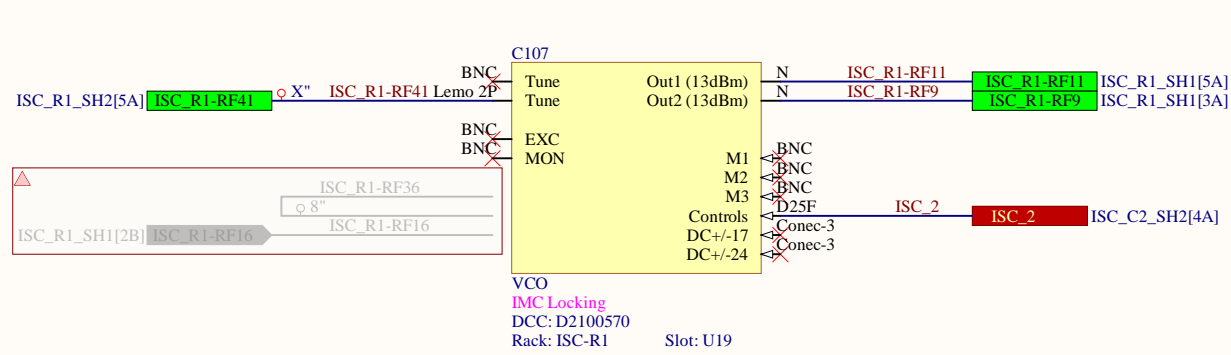
RF Patch Panel 12



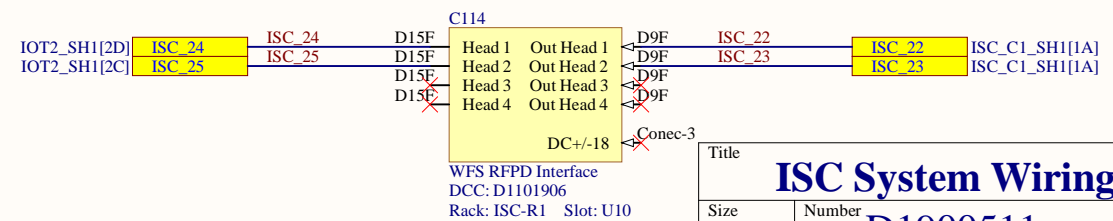
ISC-R1 Rack

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ISC System Wiring Diagram		
Size	Number	Revision
C	D1900511	V9
Date:	10/31/2023	Sheet of 38
File:	C:\Users\...ISC_R1_SchDoc	Drawn By: Filiberto Clara

ISC-R1 Rack

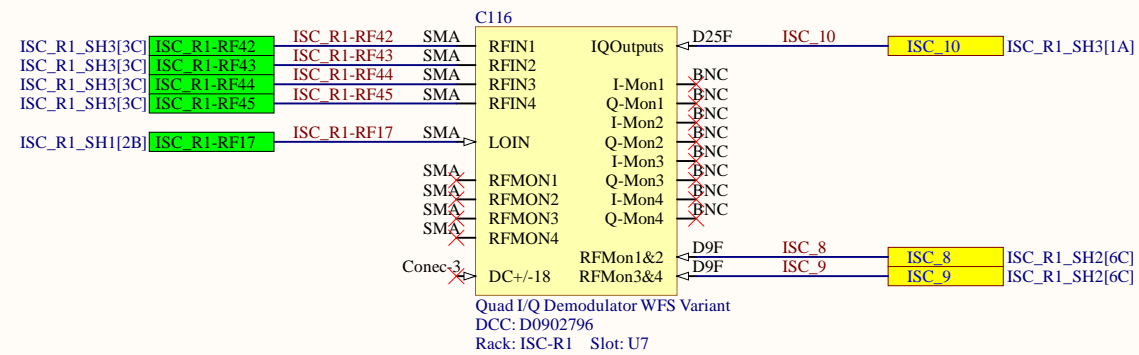
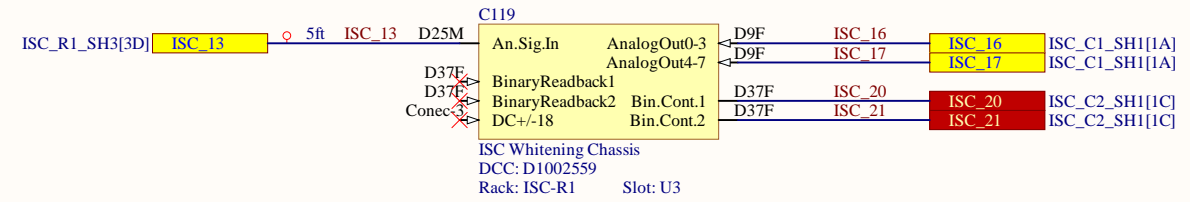
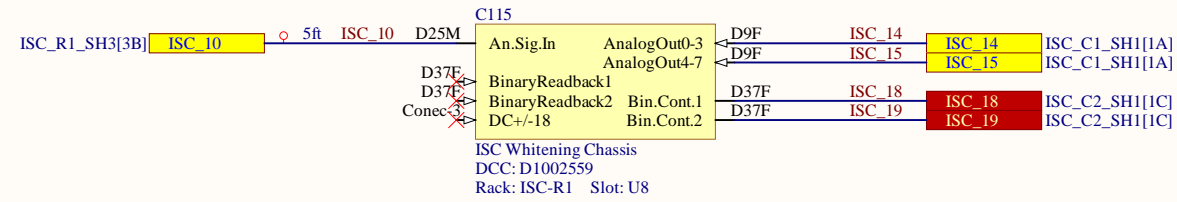


Need to Locate other end



Title			
ISC System Wiring Diagram			
Size	Number	Revision	
B	D1900511	V9	
Date:	10/31/2023	Sheet of	38
File:	C:\Users\...ISC_R1_SH2.SchDoc	Drawn By:	Filiberto Clara

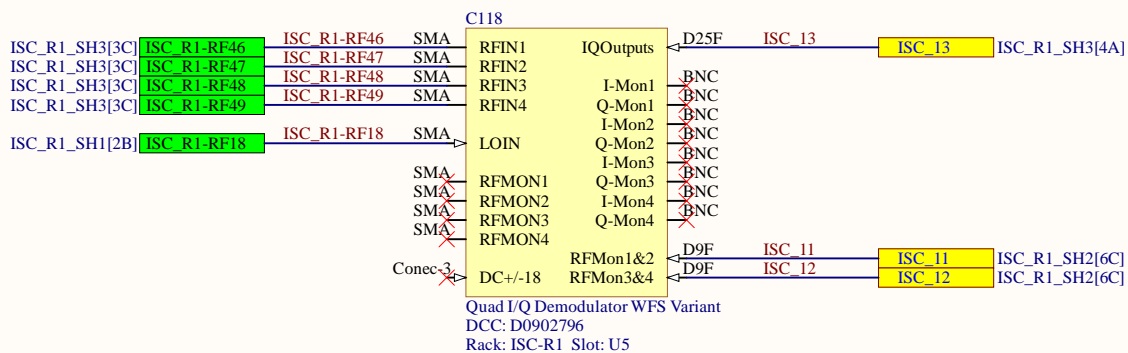
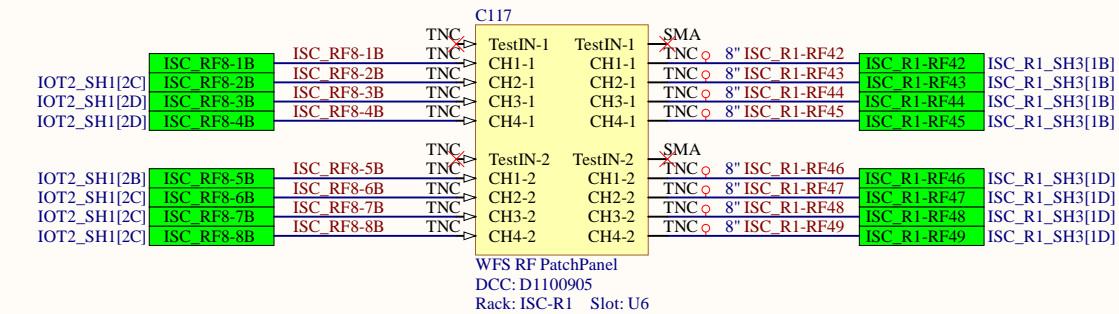
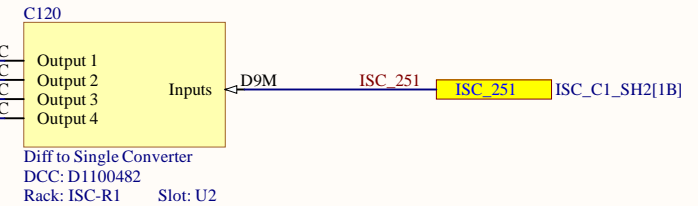
ISC-R1 Rack



Need to locate other end



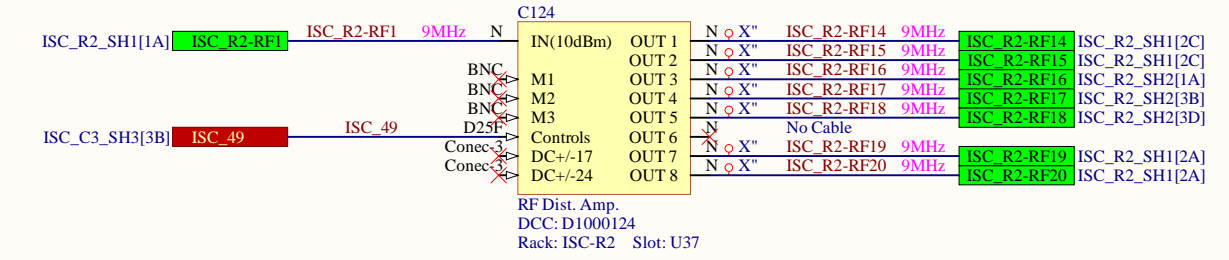
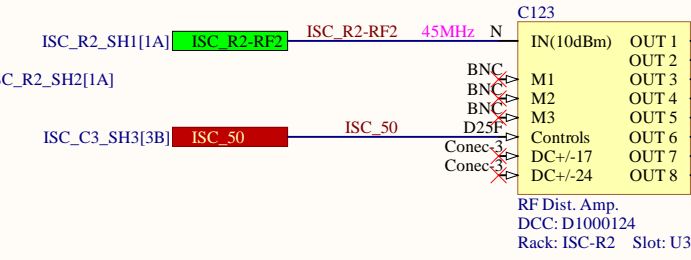
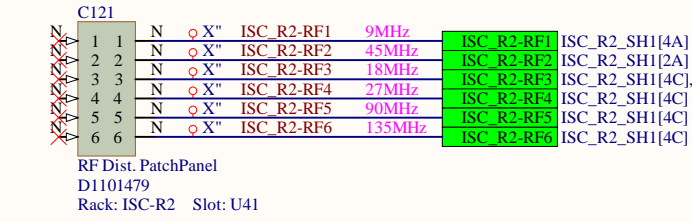
434/435 already used
ASC-POP_X_PIT/YAW



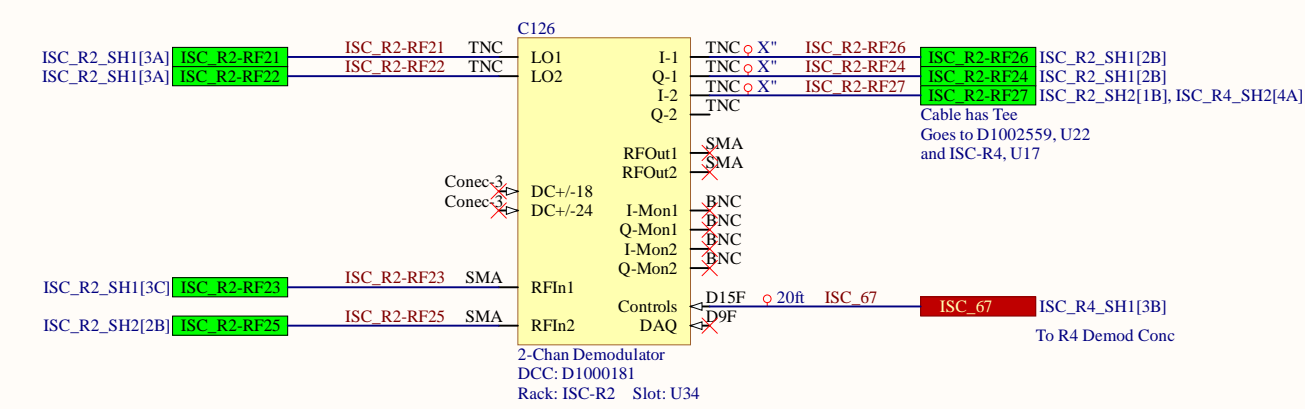
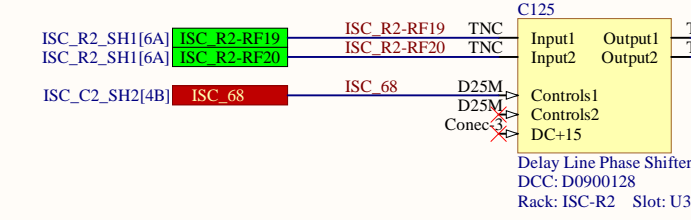
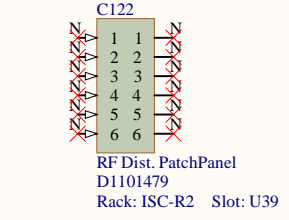
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Size	Number	Revision
B	D1900511	V9
Date:	10/31/2023	Sheet of 2 38
File:	C:\Users\...ISC_R1_SH3.SchDoc	Drawn By: Filiberto Clara

ISC-R2 Rack

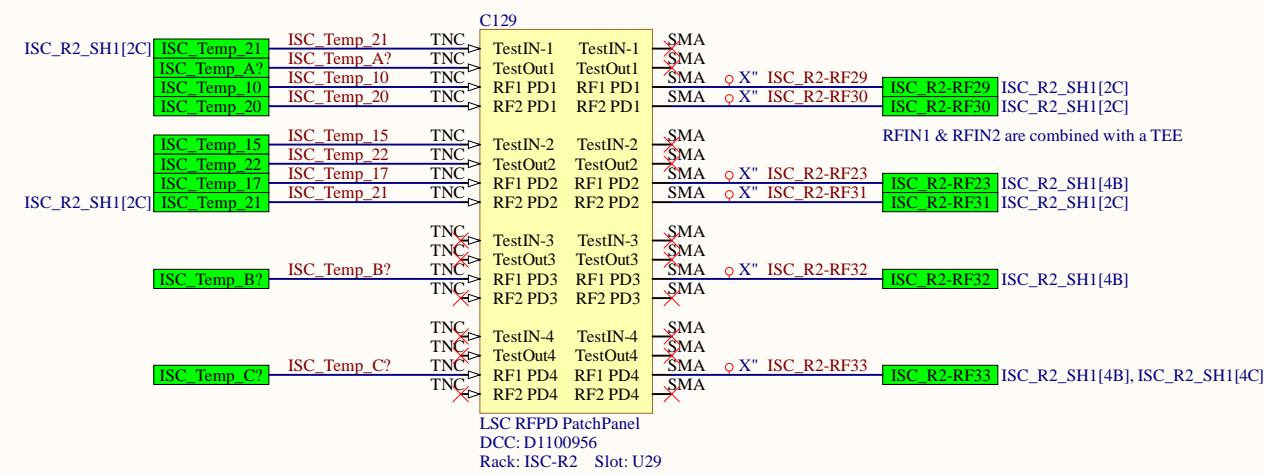
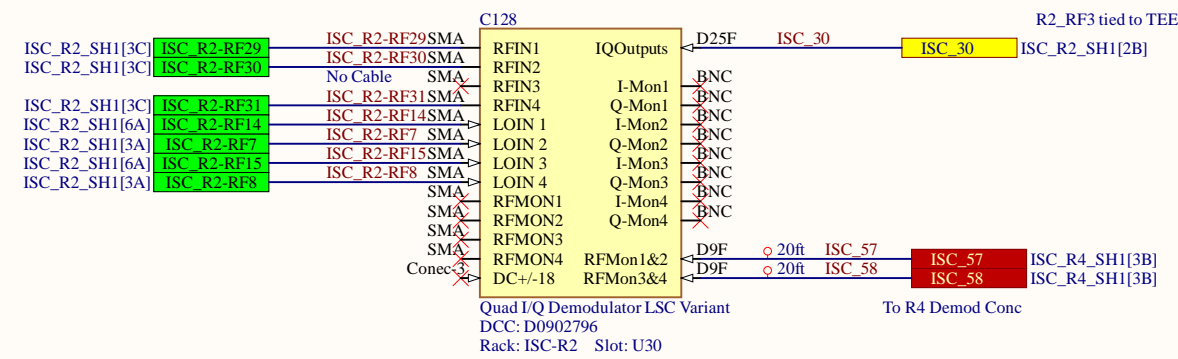
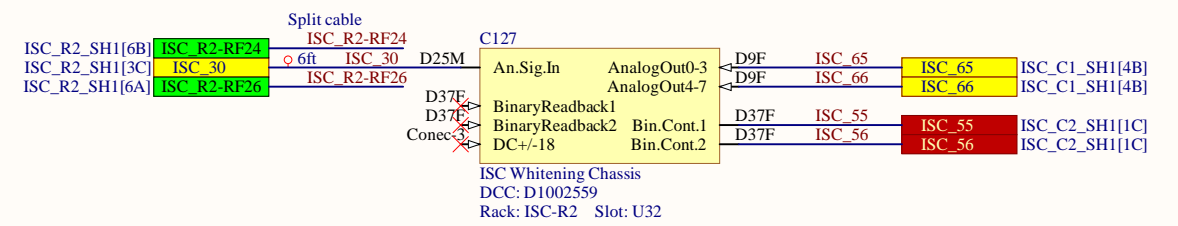
RF Patch Panel 13



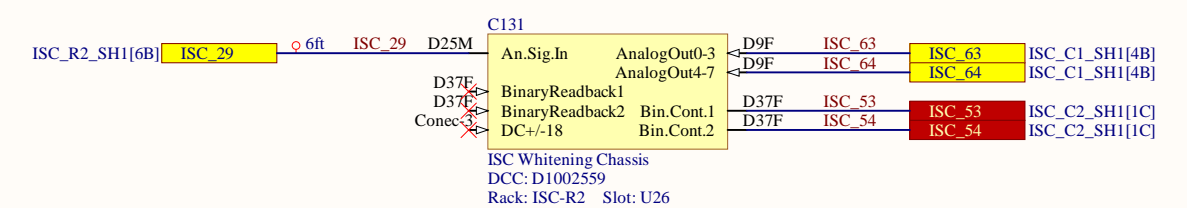
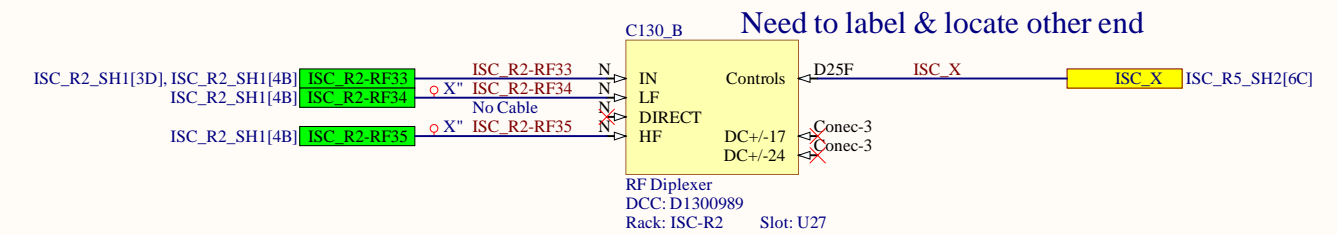
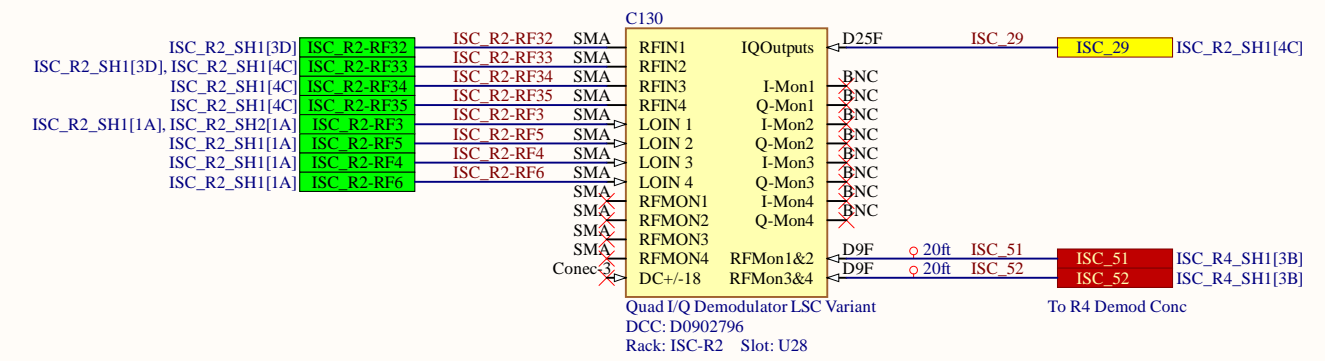
RF Patch Panel 14



LSC POPAIR A 9&45, LSC REFLAIR A 45



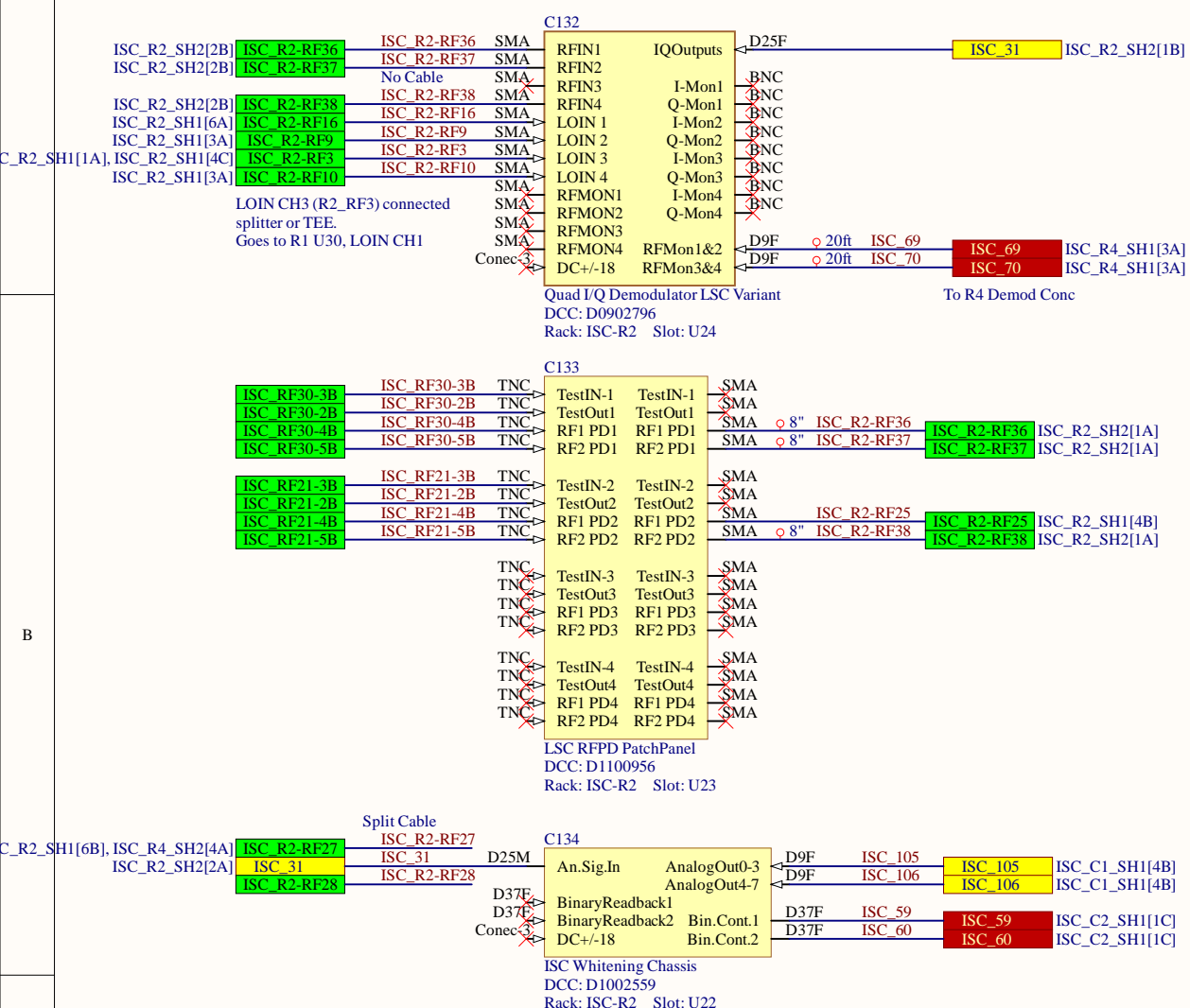
LSC POPAIR B 18&90, LSC REFLAIR B 27&135



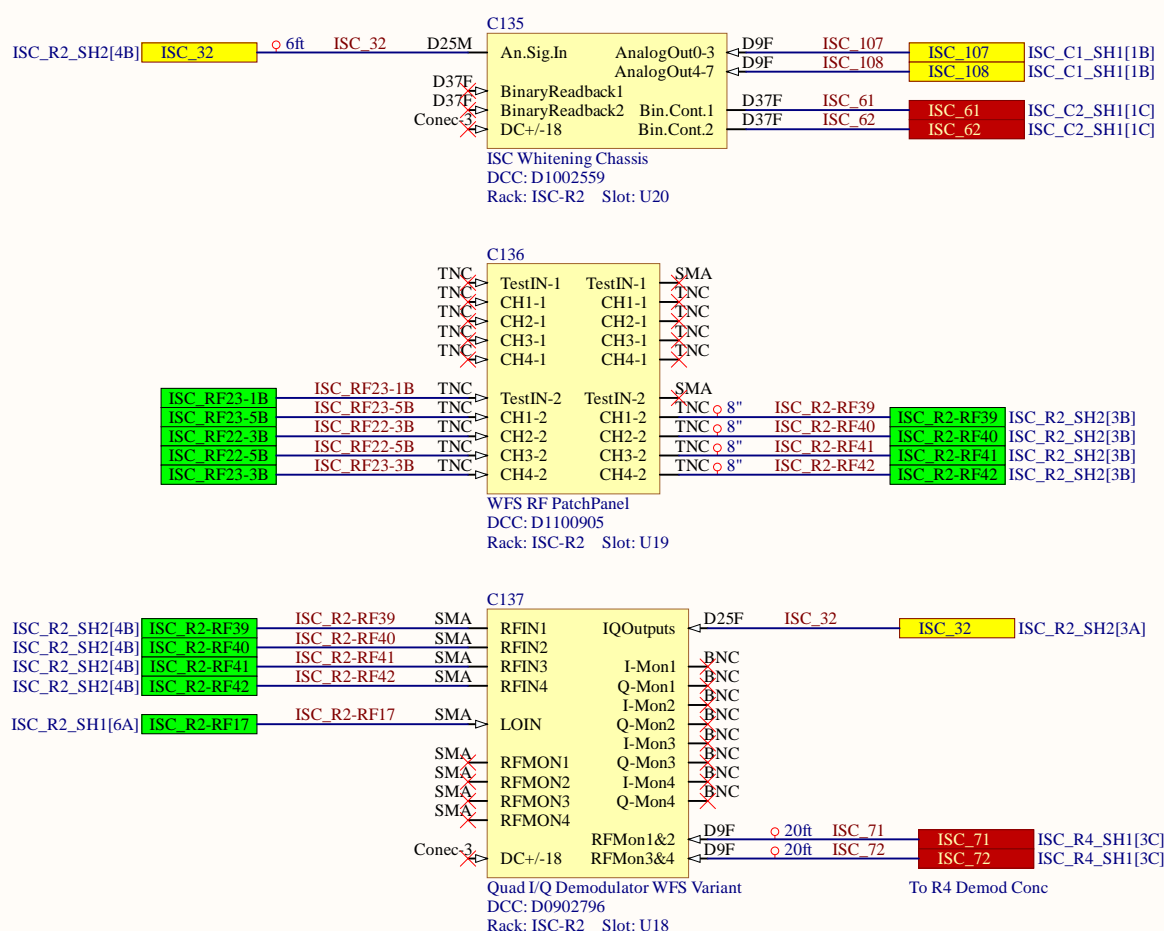
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Size	Number	Revision			
C	D1900511	V9			
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ISC-R2 Rack

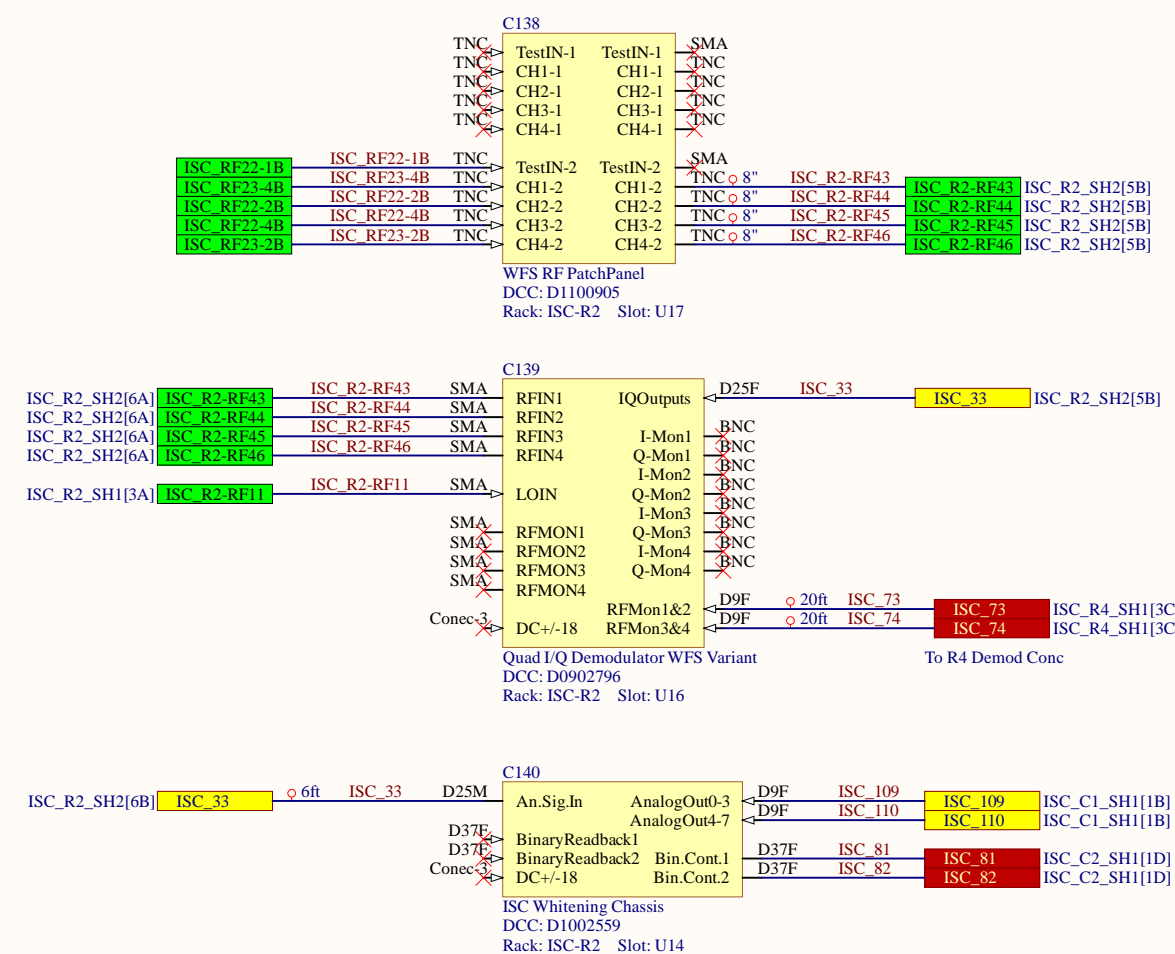
LSC POP, LSC REFL



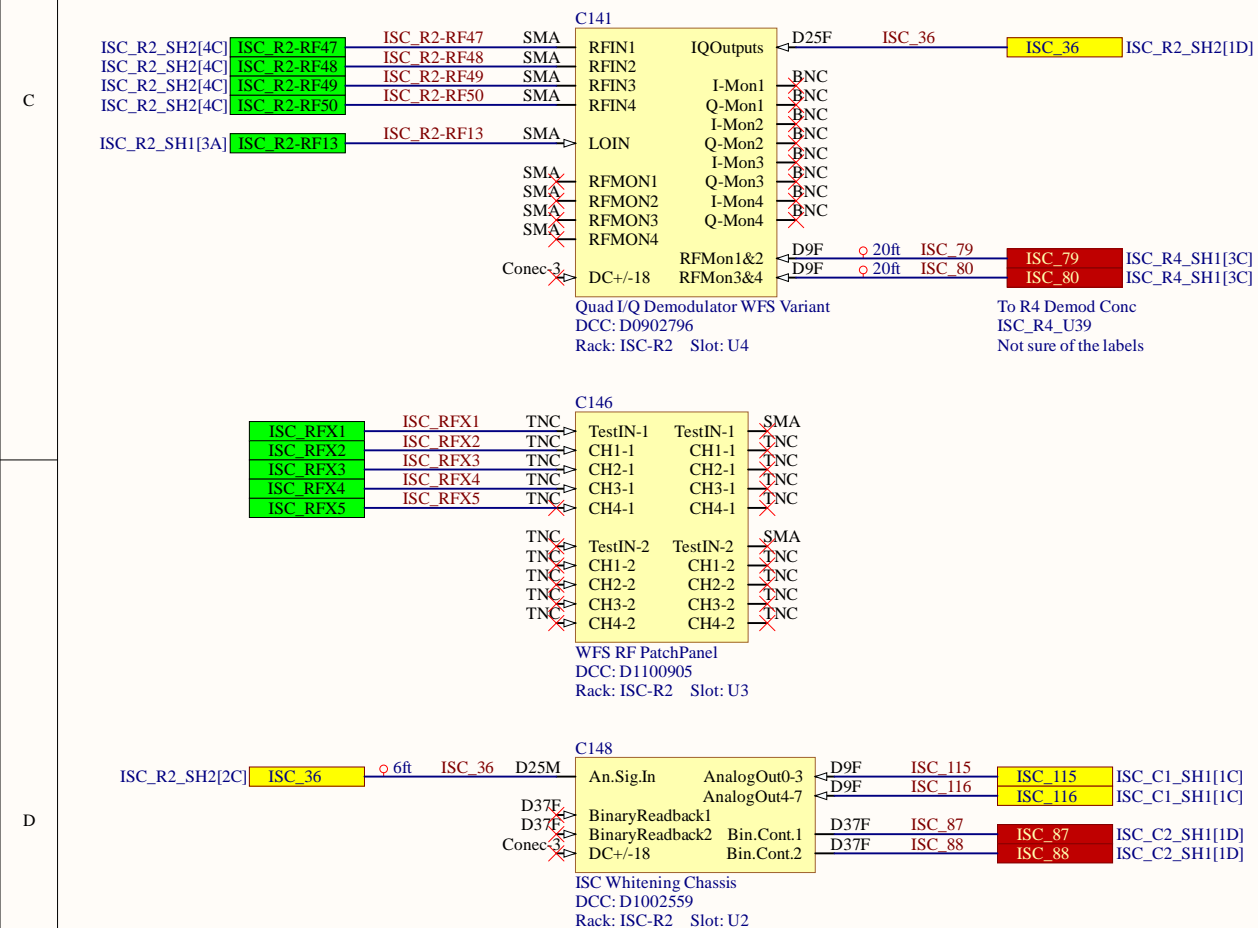
ASC REFL A 9MHz



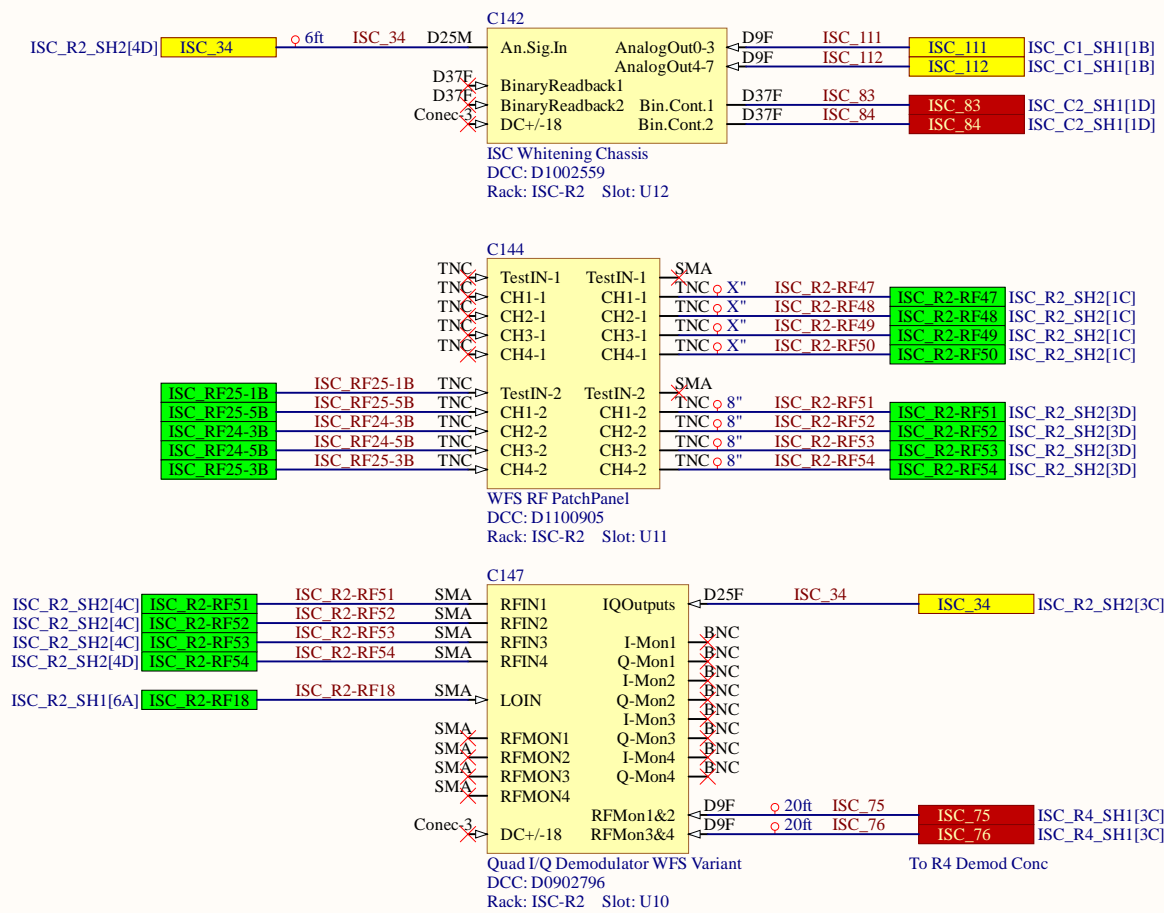
ASC REFL A 45MHz



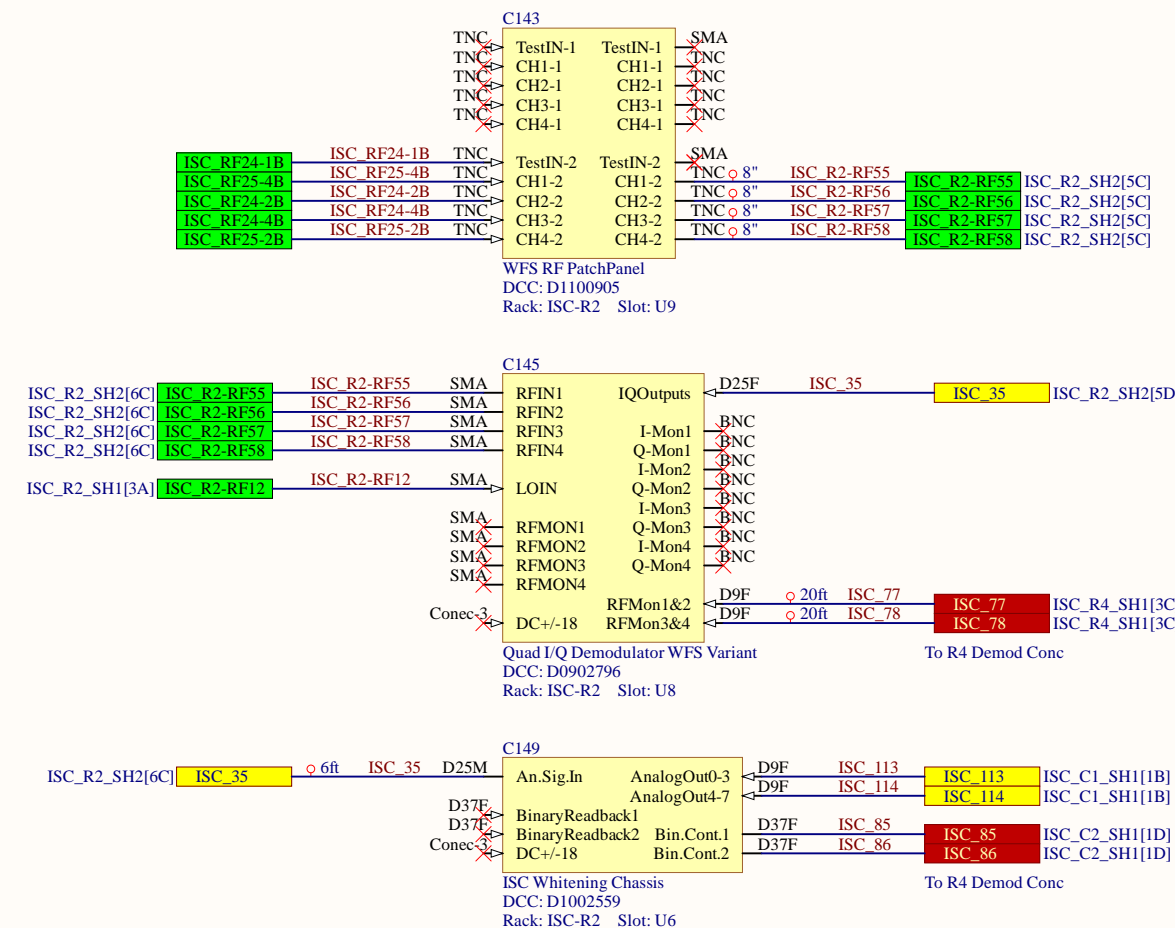
ASC POP A 45MHz



ASC REFL B 9MHz

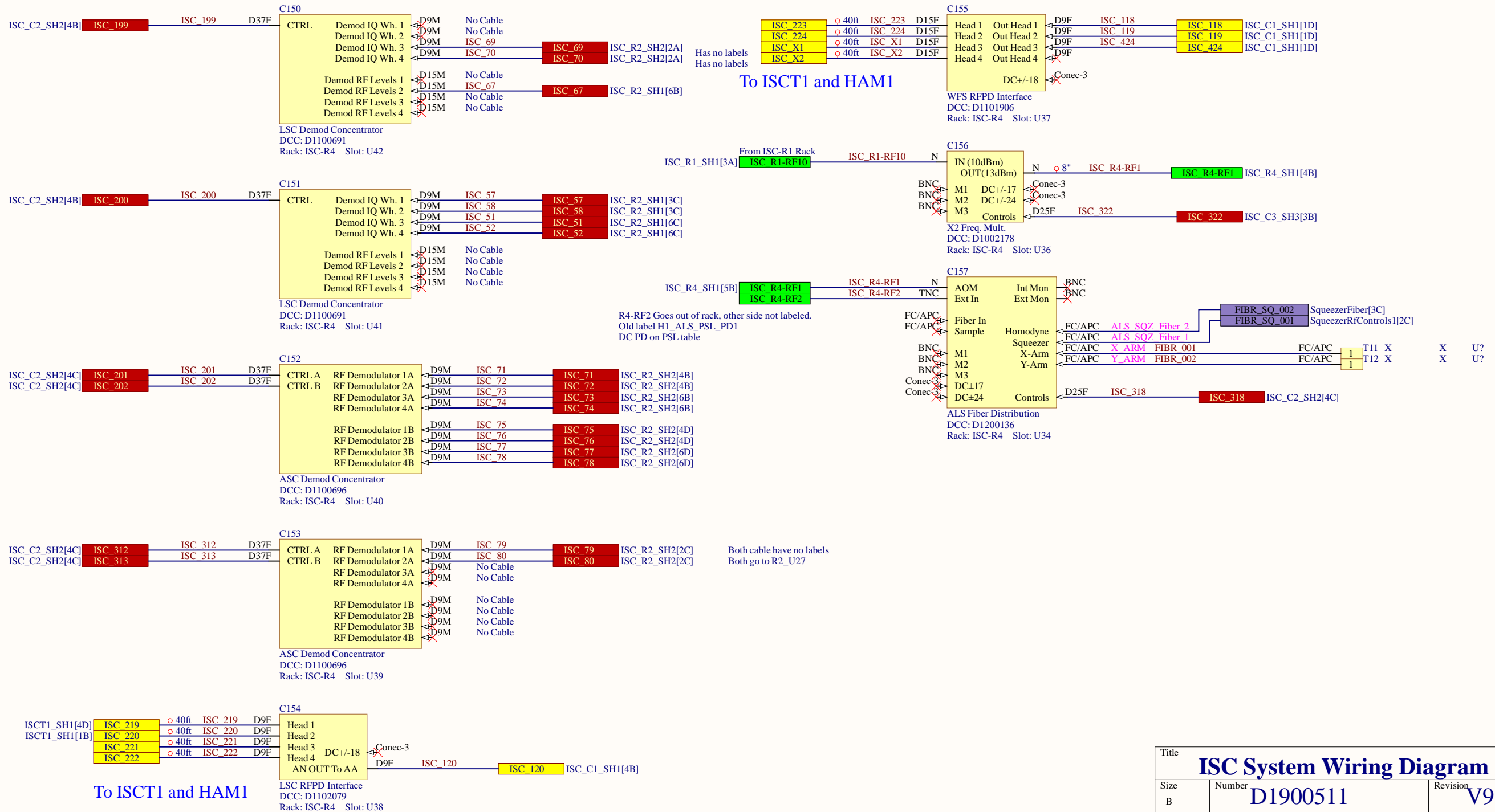


ASC REFL B 45MHz



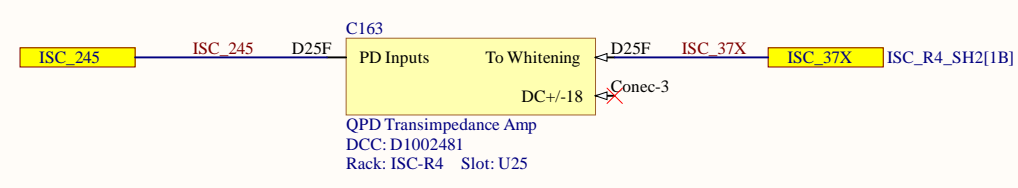
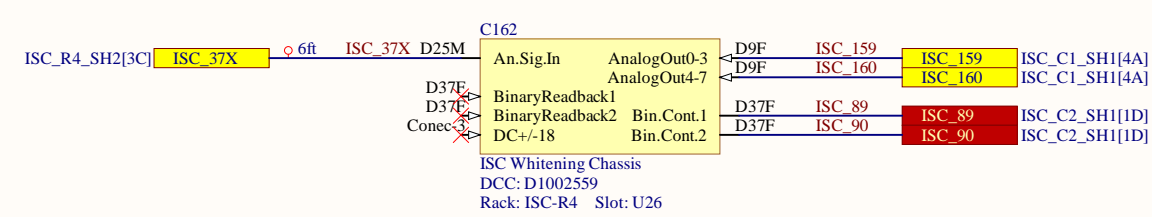
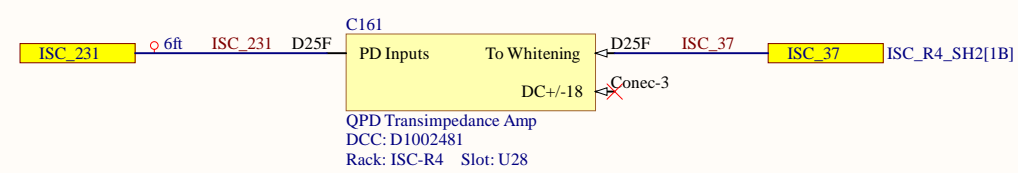
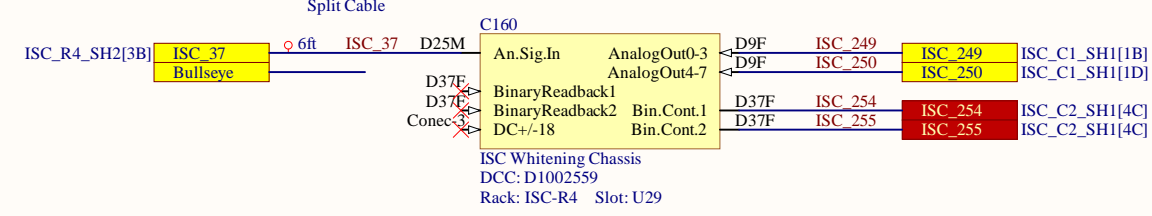
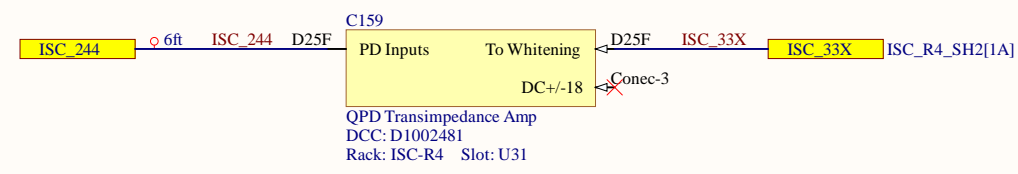
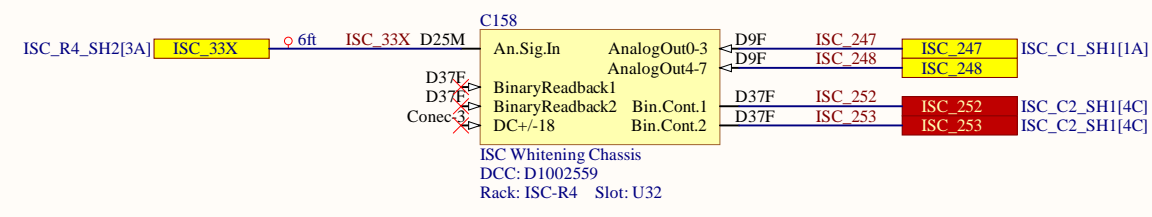
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Size	Number	D1900511		Revision	V9
C					
Date:	10/31/2023	Sheet of4	38		
File:	C:\Users\...ISC_R2_SH2.SchDoc	Drawn By:	Filiberio Clara		

ISC-R4 Rack



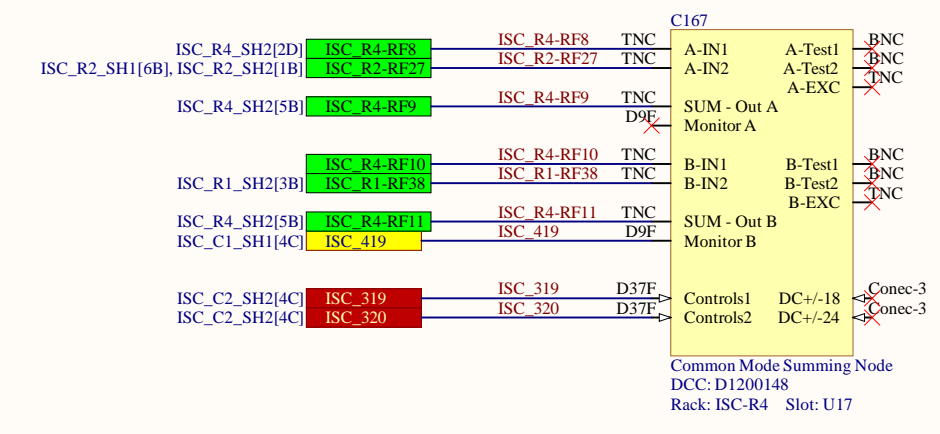
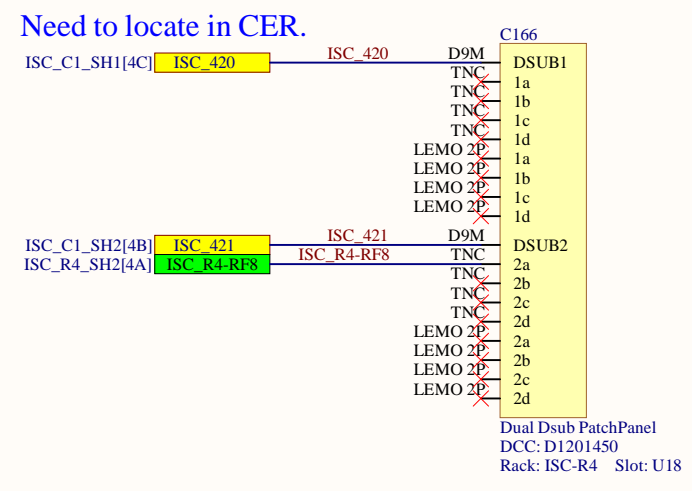
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ISC System Wiring Diagram		
Size	Number	Revision
B	D1900511	V9
Date:	10/31/2023	Sheet of 5 38
File:	C:\Users\...ISC_R4_SH1.SchDoc	Drawn By: Filiberto Clara

ISC-R4 Rack

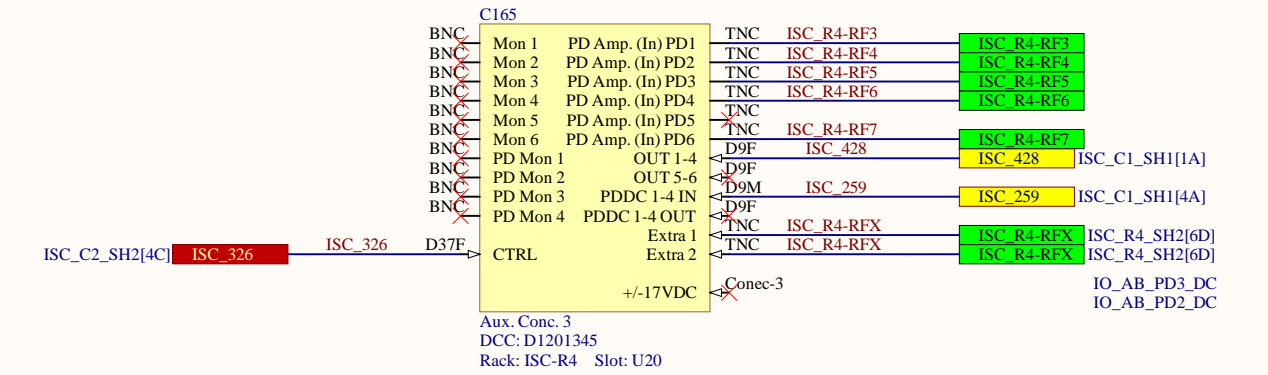
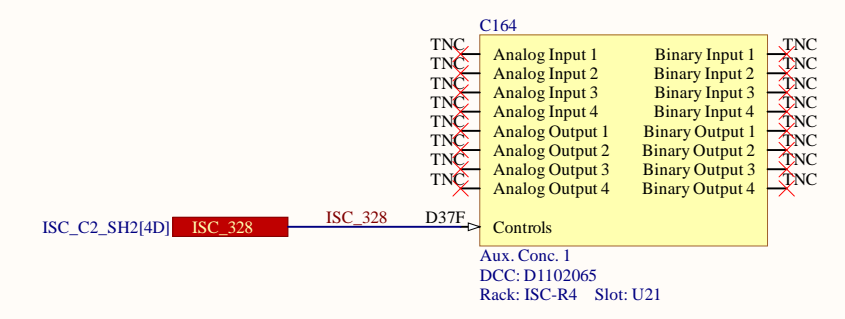
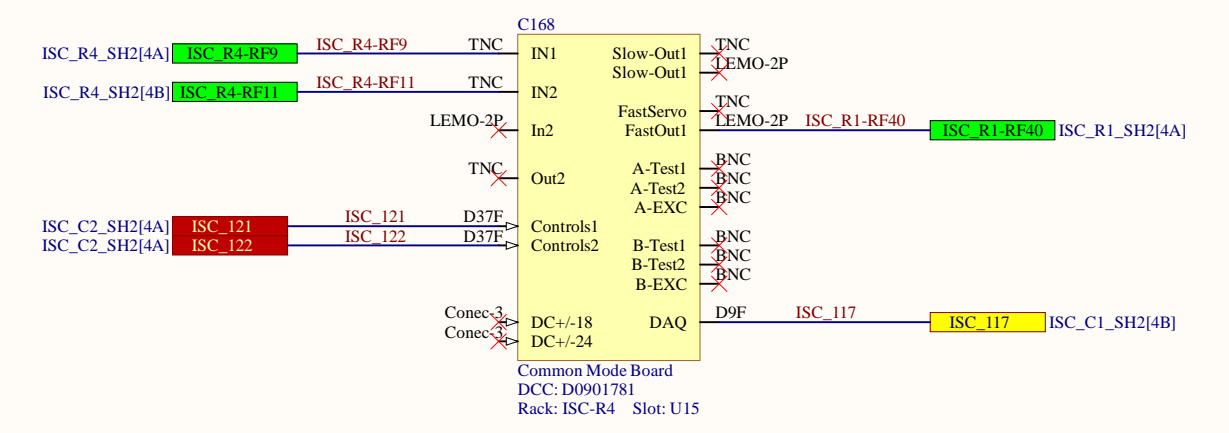


Do we need Sat Amp Included
 U23
 ISC_194 Coild Drive in CH1-4
 ISC_195 Coild Drive in CH5-8
 ISC_125 PD Out CH1-4
 ISC_126 PD Out CH1-4

Cable in the back.
 ISC_228
 ISC_229



Otherside not labeled. RED
 Otherside not labeled. Green
 Otherside not labeled. R4 ISC1
 Otherside not labeled. R4 ISC2
 Otherside not labeled. Old label H1_ALS_PSL_PD1

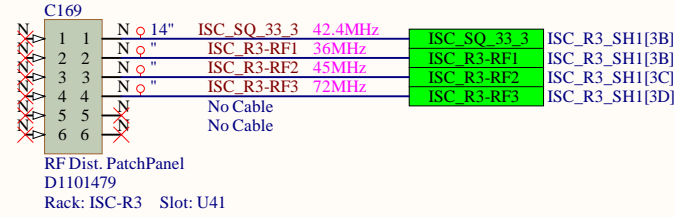


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ISC System Wiring Diagram		
Size	Number	Revision
C	D1900511	V9
Date:	10/31/2023	Sheet of 6 38
File:	C:\Users\...ISC_R4_SH2.SchDoc	Drawn By: Filiberto Clara

ISC-R3 Rack

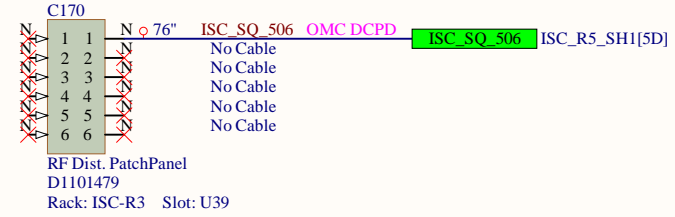
Need to Relabel ISC_R3-RF4

RF Patch Panel 15

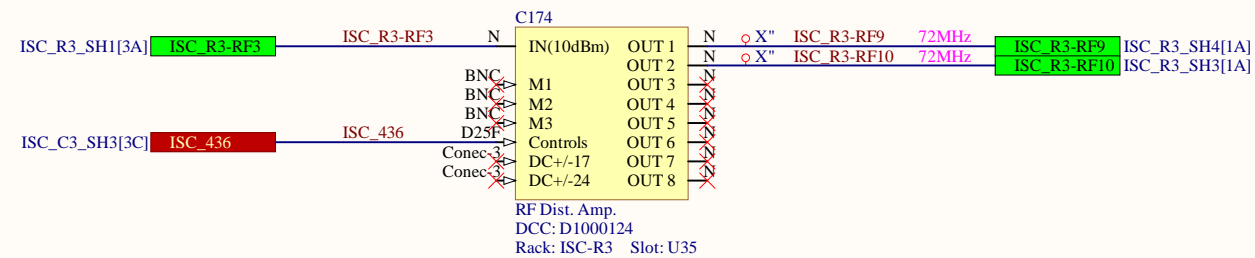
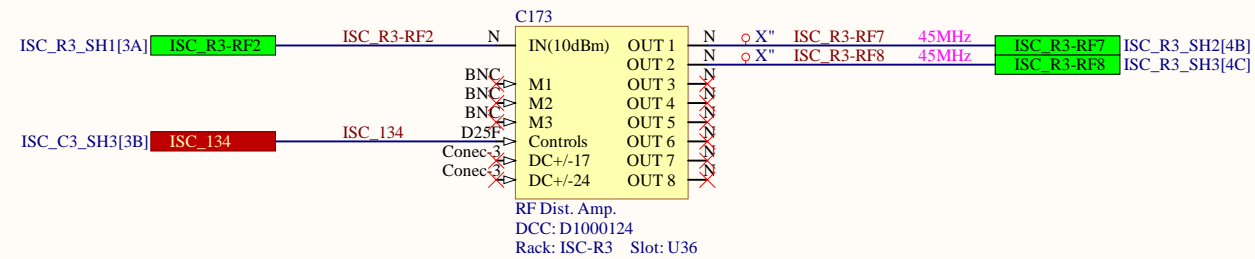
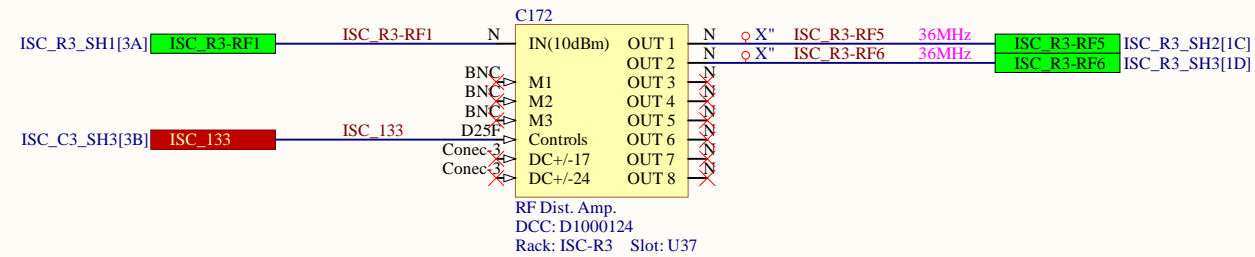
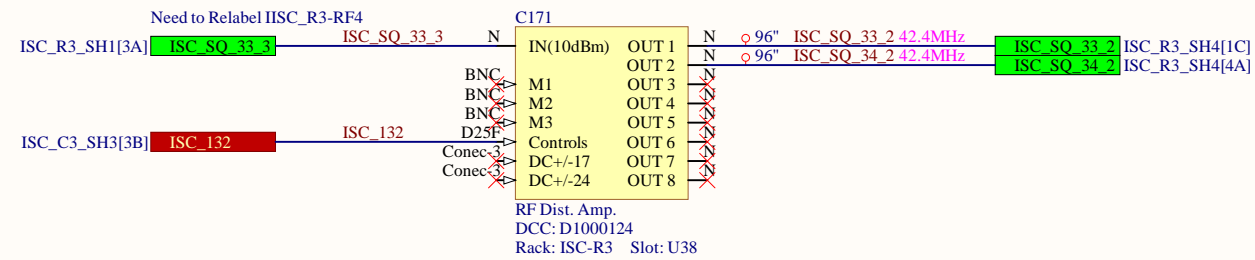


Goes to ISC-C4

RF Patch Panel 16

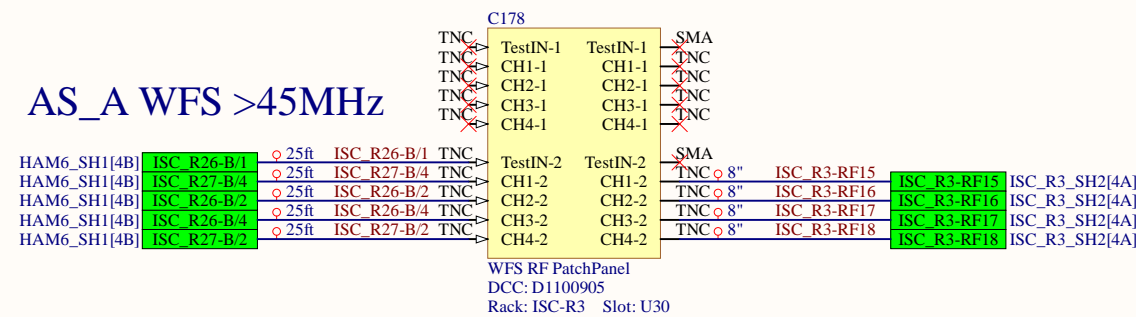
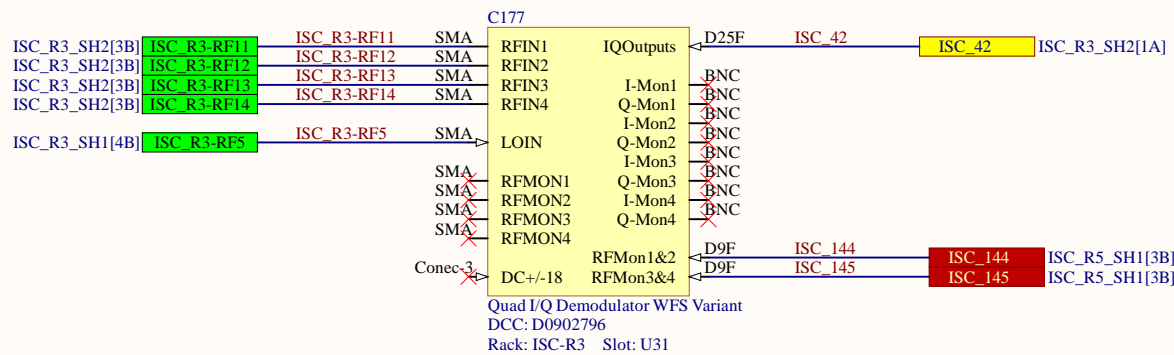
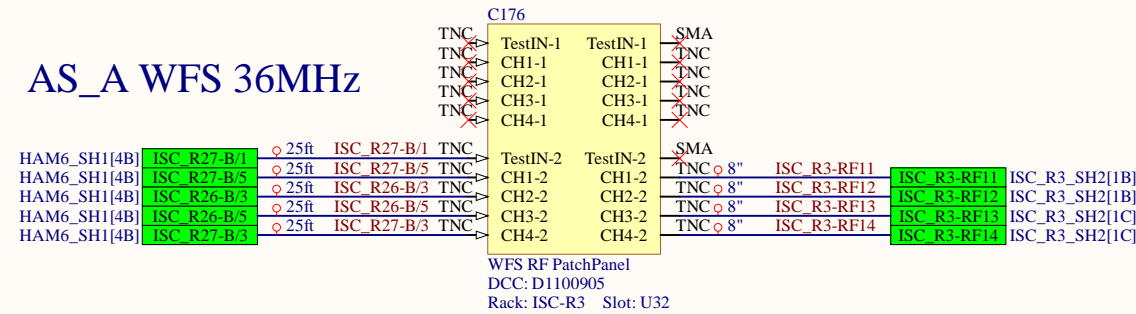
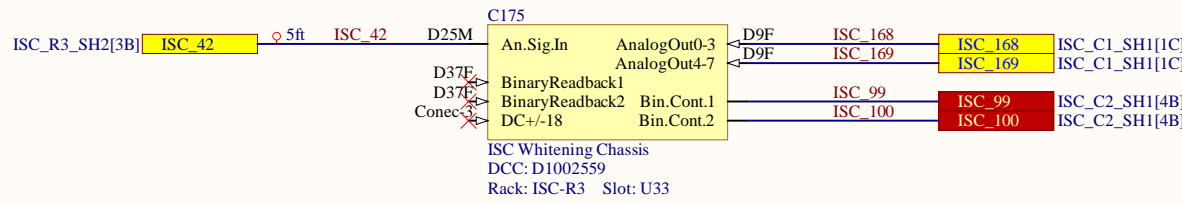


Goes to SQZ-R1/ISC-C4

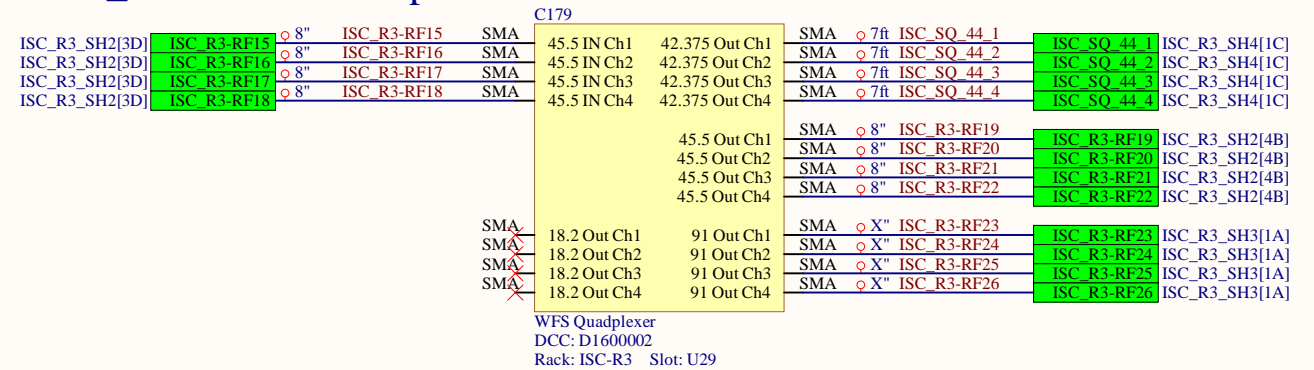


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ISC System Wiring Diagram		
Size	Number	Revision
B	D1900511	V9
Date:	10/31/2023	Sheet of 7 38
File:	C:\Users\...ISC_R3_SH1.SchDoc	Drawn By: Filiberto Clara

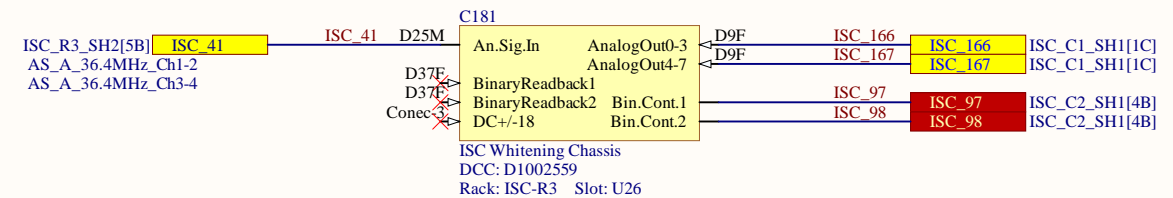
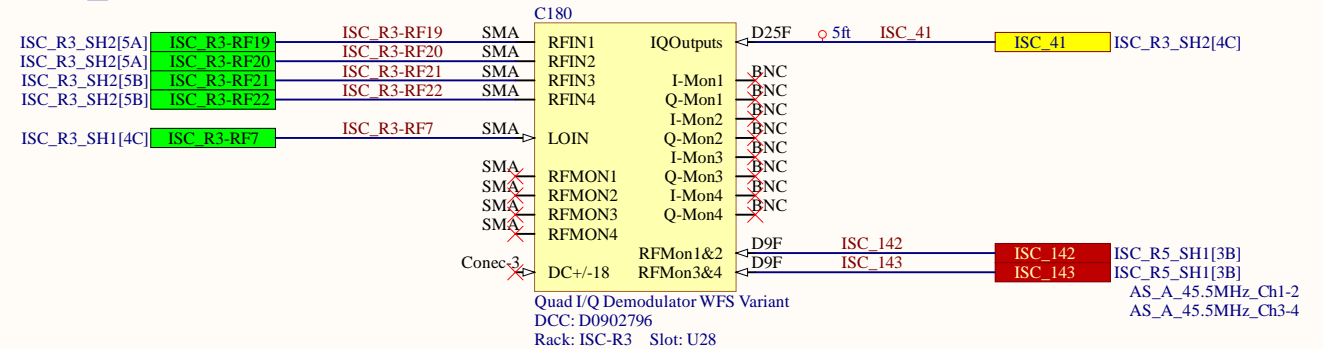
ISC-R3 Rack



AS_A WFS RF multiplexer



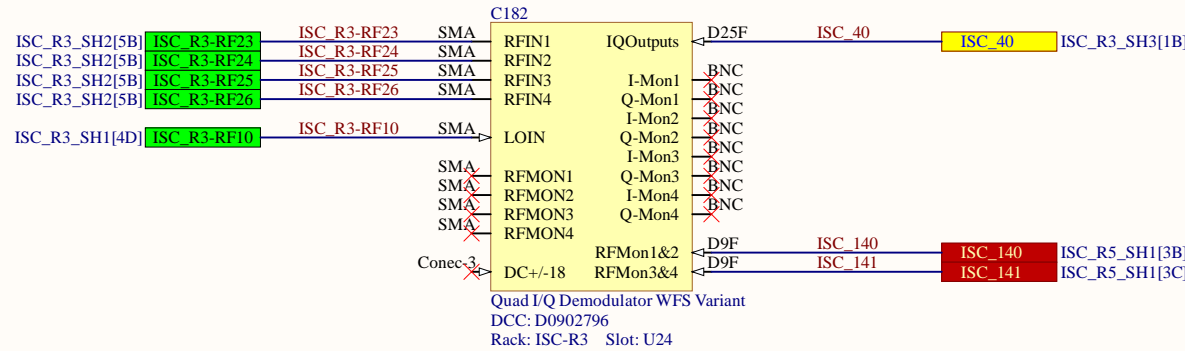
AS_A WFS 45MHz



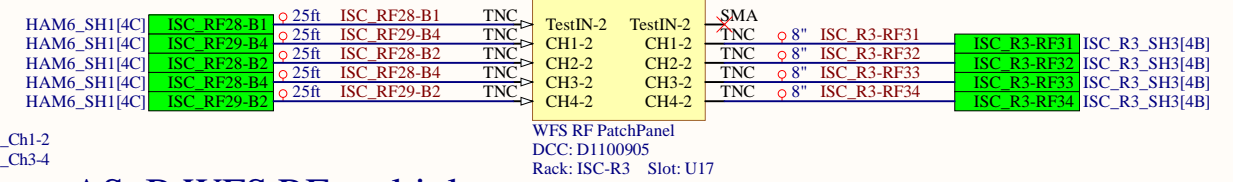
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Size	Number	Revision	
B	D1900511	V9	
Date:	10/31/2023	Sheet of 8	38
File:	C:\Users\...ISC_R3_SH2.SchDoc	Drawn By:	Filiberto Clara

ISC-R3 Rack

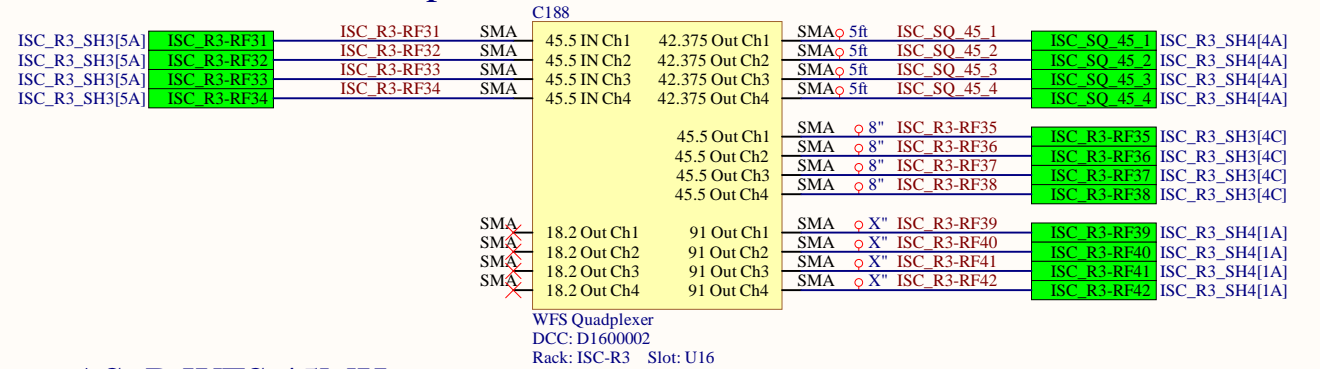
AS_A WFS 72MHz



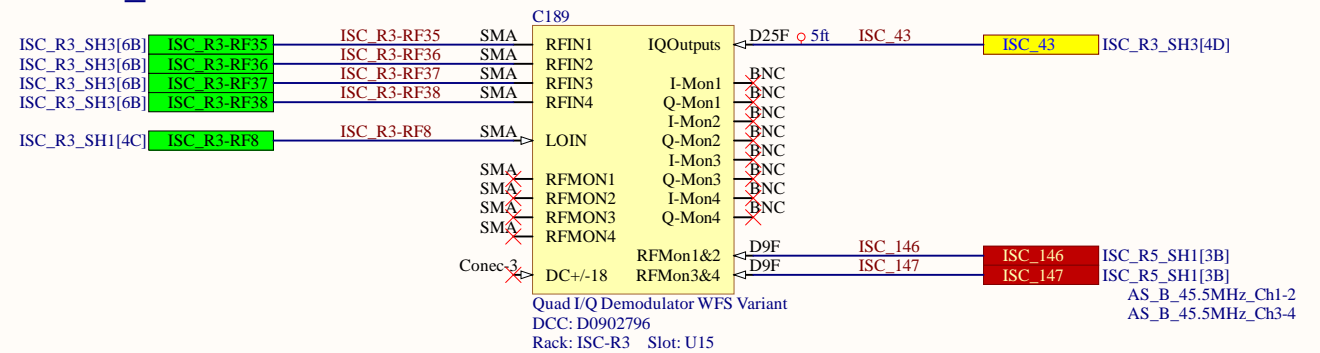
AS_B WFS >45MHz



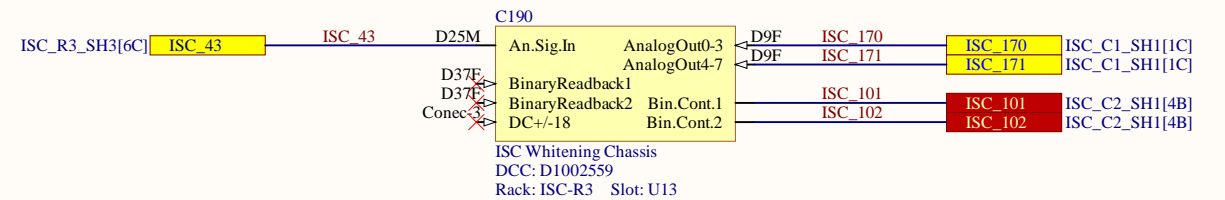
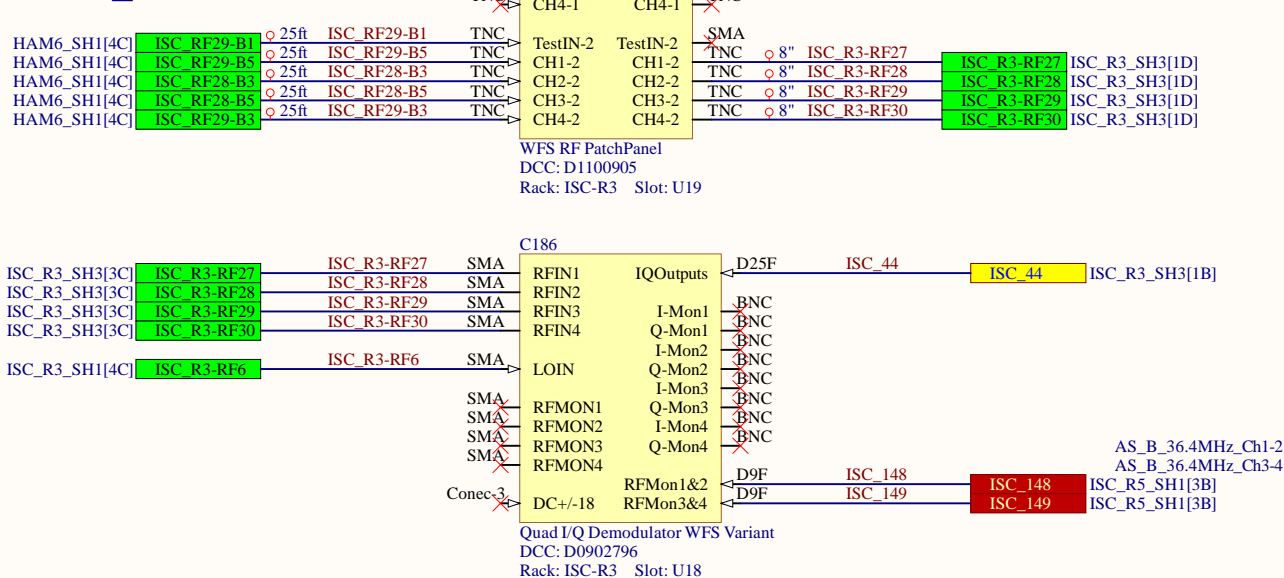
AS_B WFS RF multiplexer



AS_B WFS 45MHz



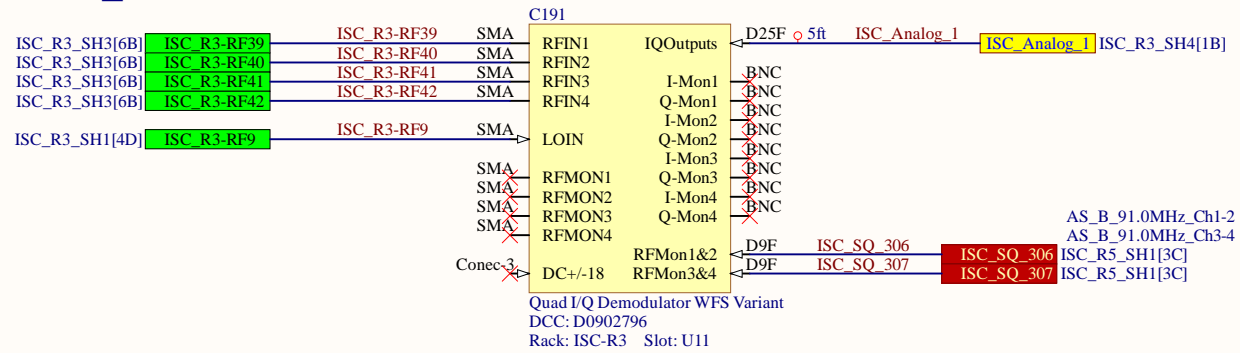
AS_B WFS 36MHz



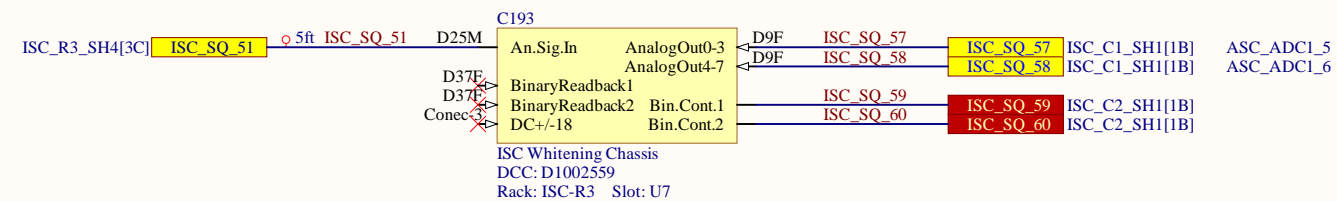
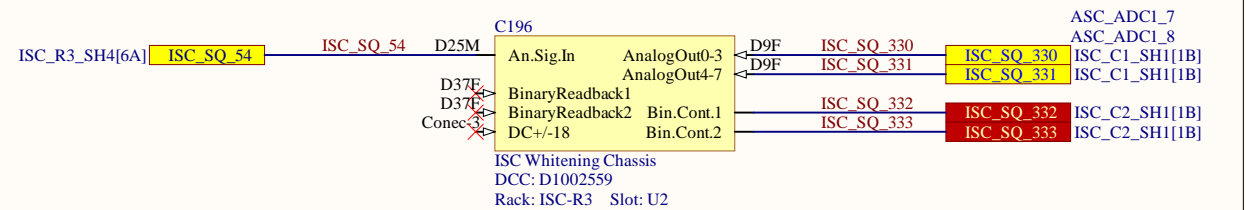
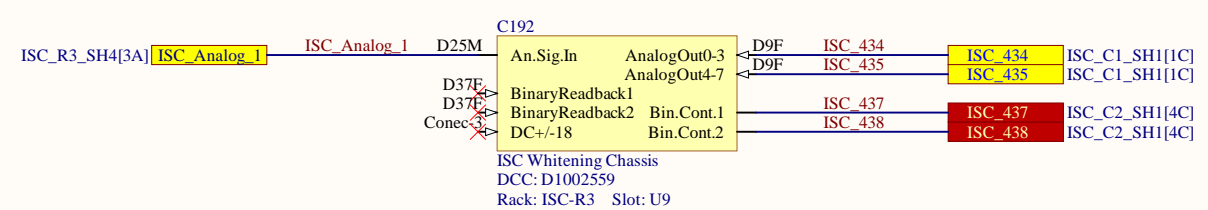
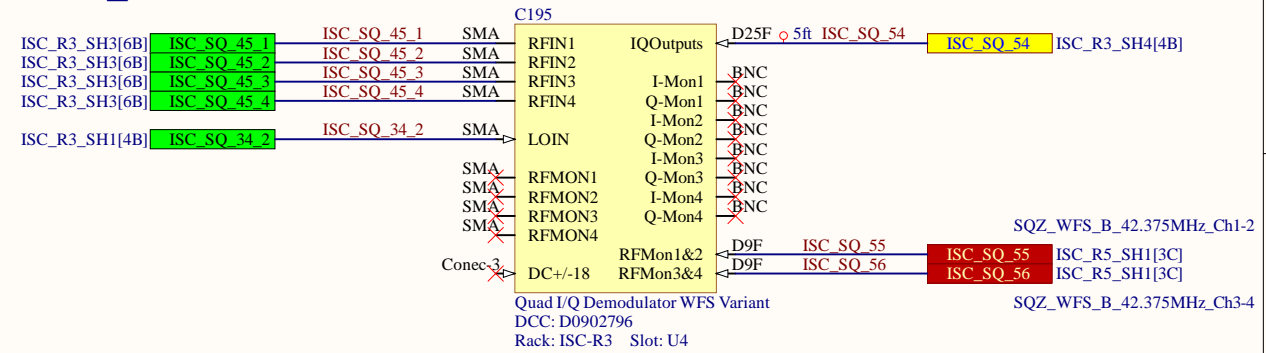
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File:	C:\Users\...ISC_R3_SH3.SchDoc	Drawn By: Filiberto Clara

ISC-R3 Rack

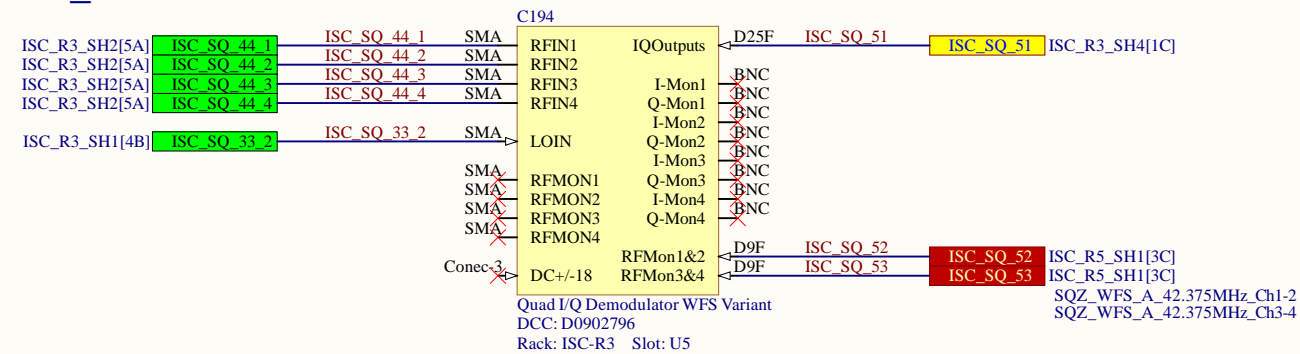
AS_B WFS 72MHz



AS_B WFS 42MHz



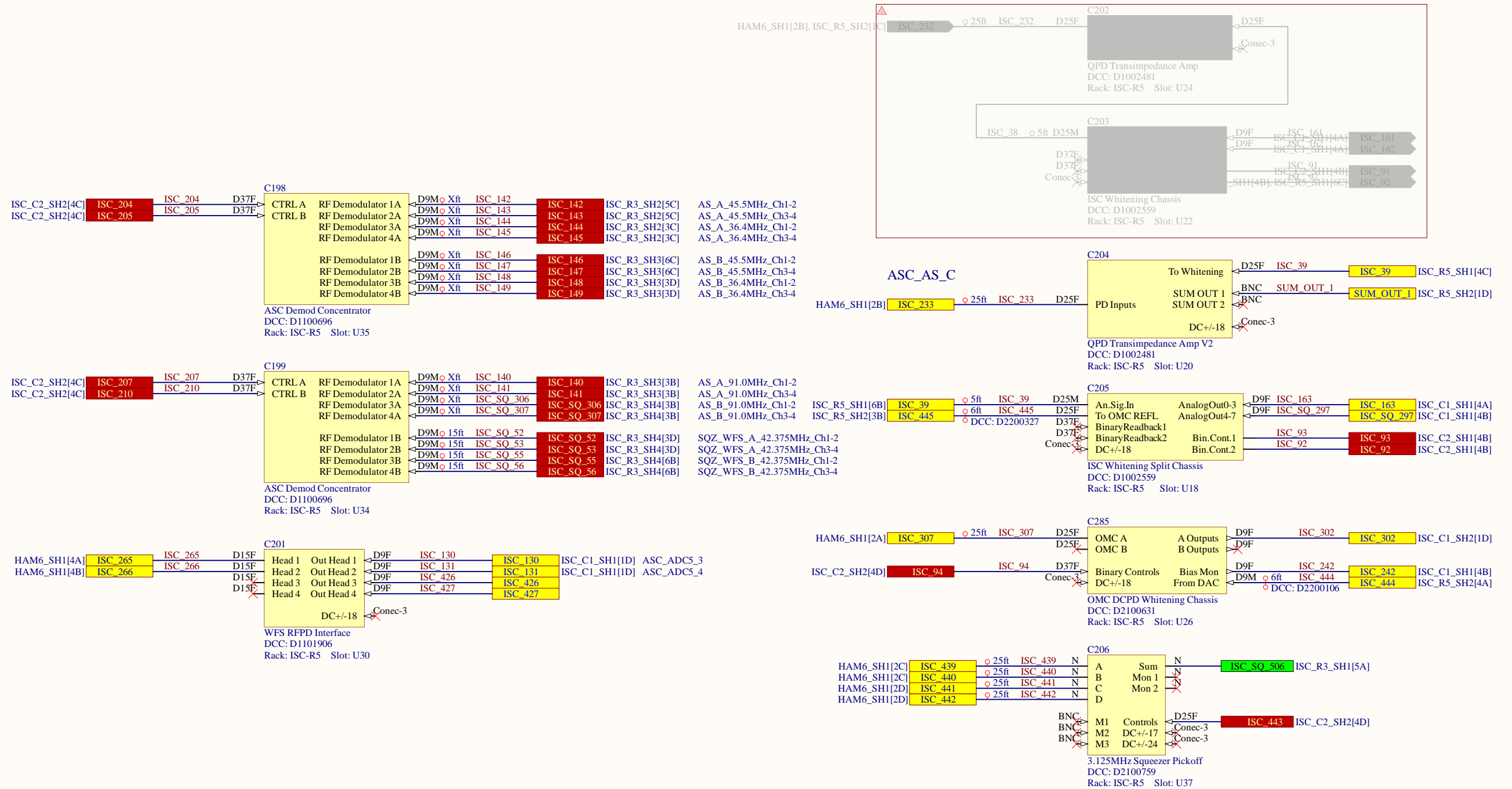
AS_A WFS 42MHz



Title			
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Size	Number	Revision	
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Date:	10/31/2023	Sheet of	38
File:	C:\Users\...ISC_R3_SH4.SchDoc	Drawn By:	Filiberto Clara

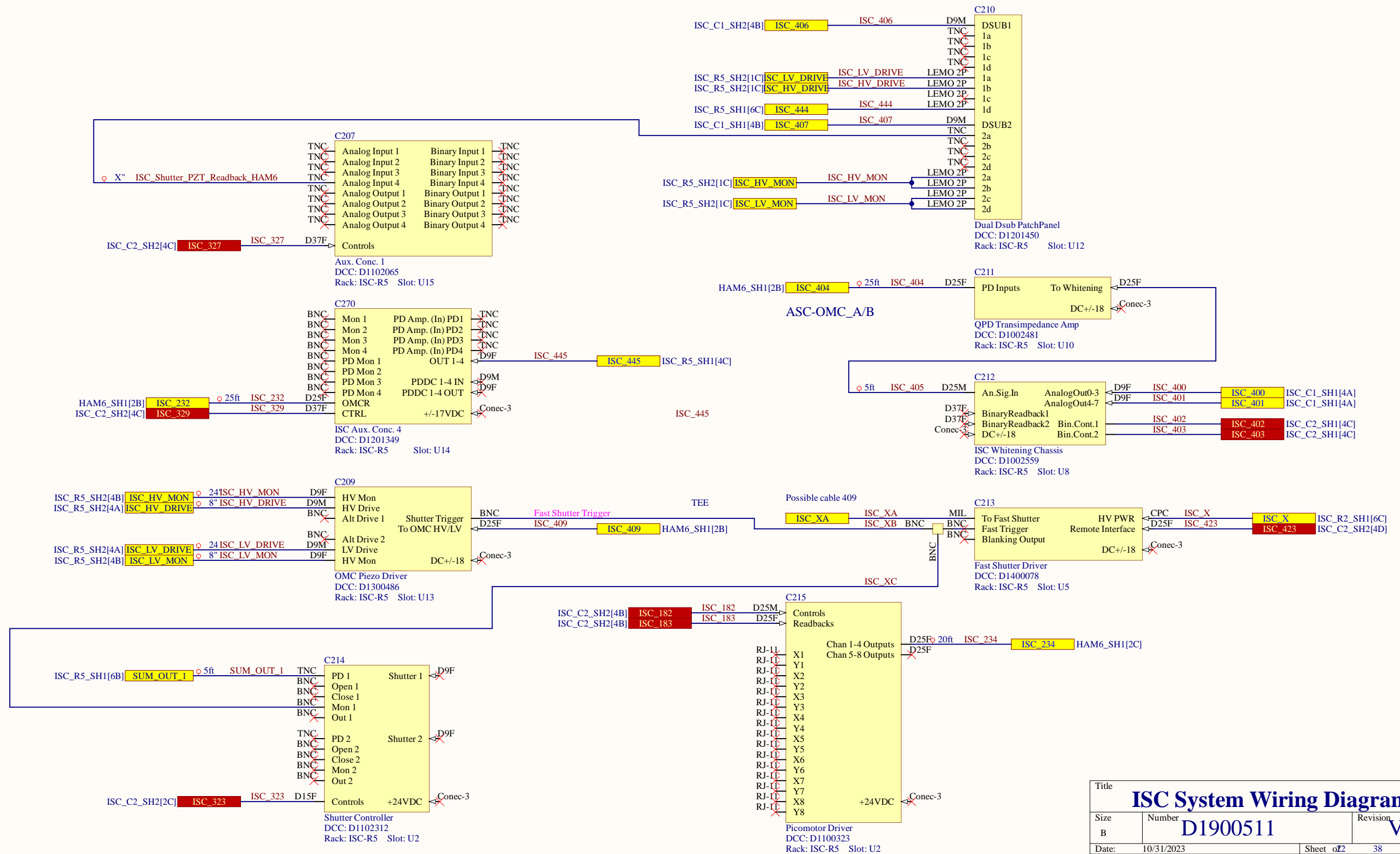
ISC-R5 Rack

OMCR no longer used at LHO



Title			
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Size	Number	Revision	
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Date:	10/31/2023	Sheet of	38
File:	C:\Users\...ISC_R5_SH1.SchDoc	Drawn By:	Filiberto Clara

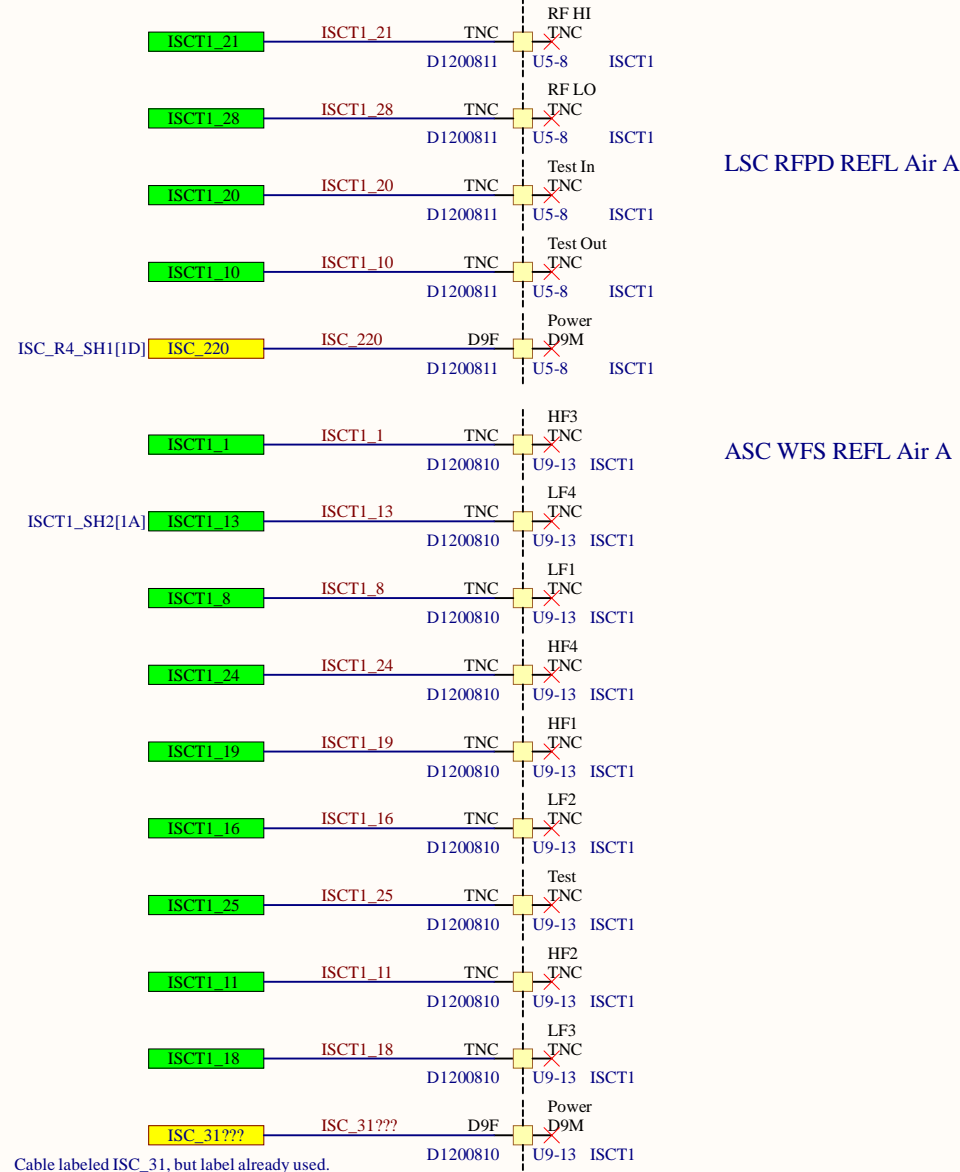
ISC-R5 Rack



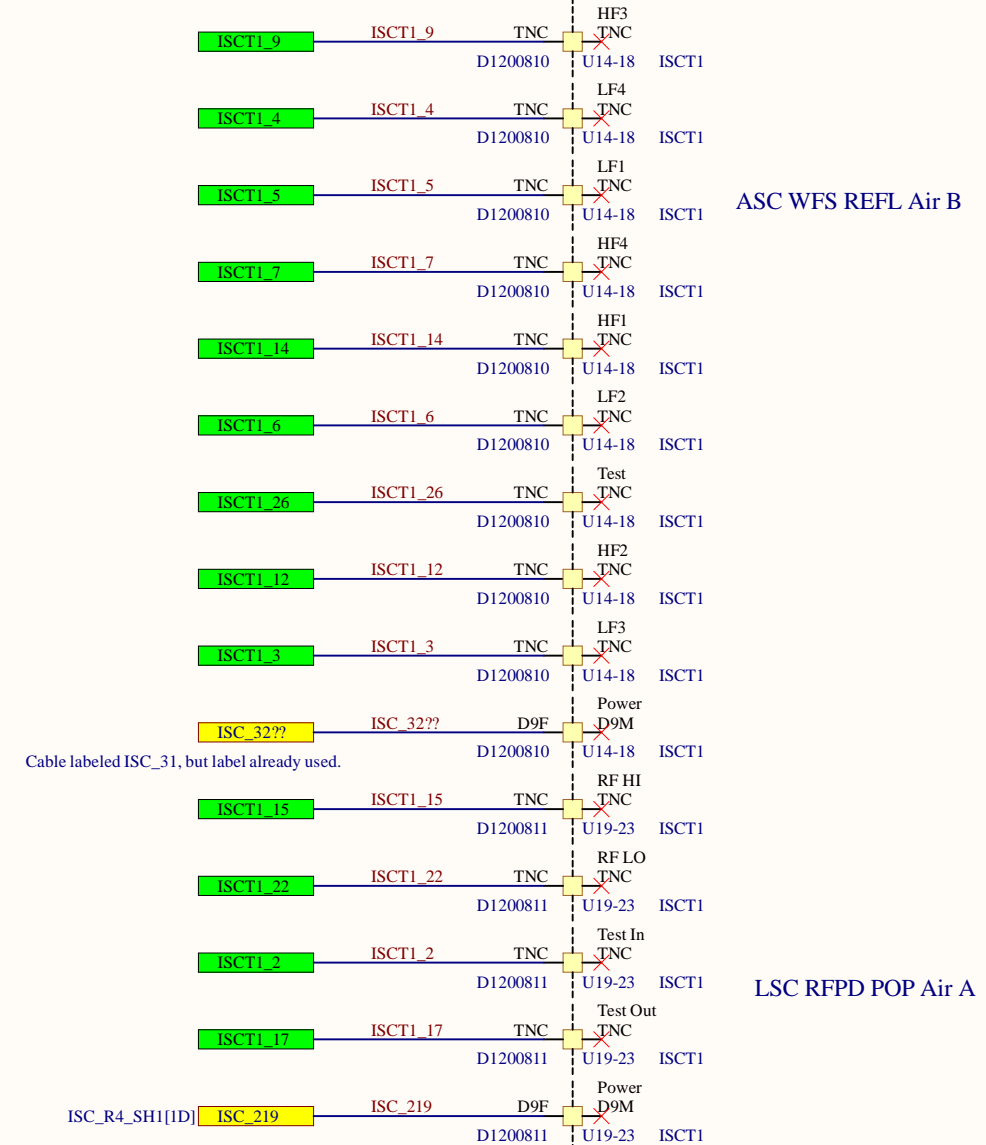
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Date:	10/31/2023	Sheet of	38
File:	C:\Users\...ISC_R5_SH2.SchDoc	Drawn By:	Filiberto Clara

ISCT1 - Right Side

Inside Enclosure



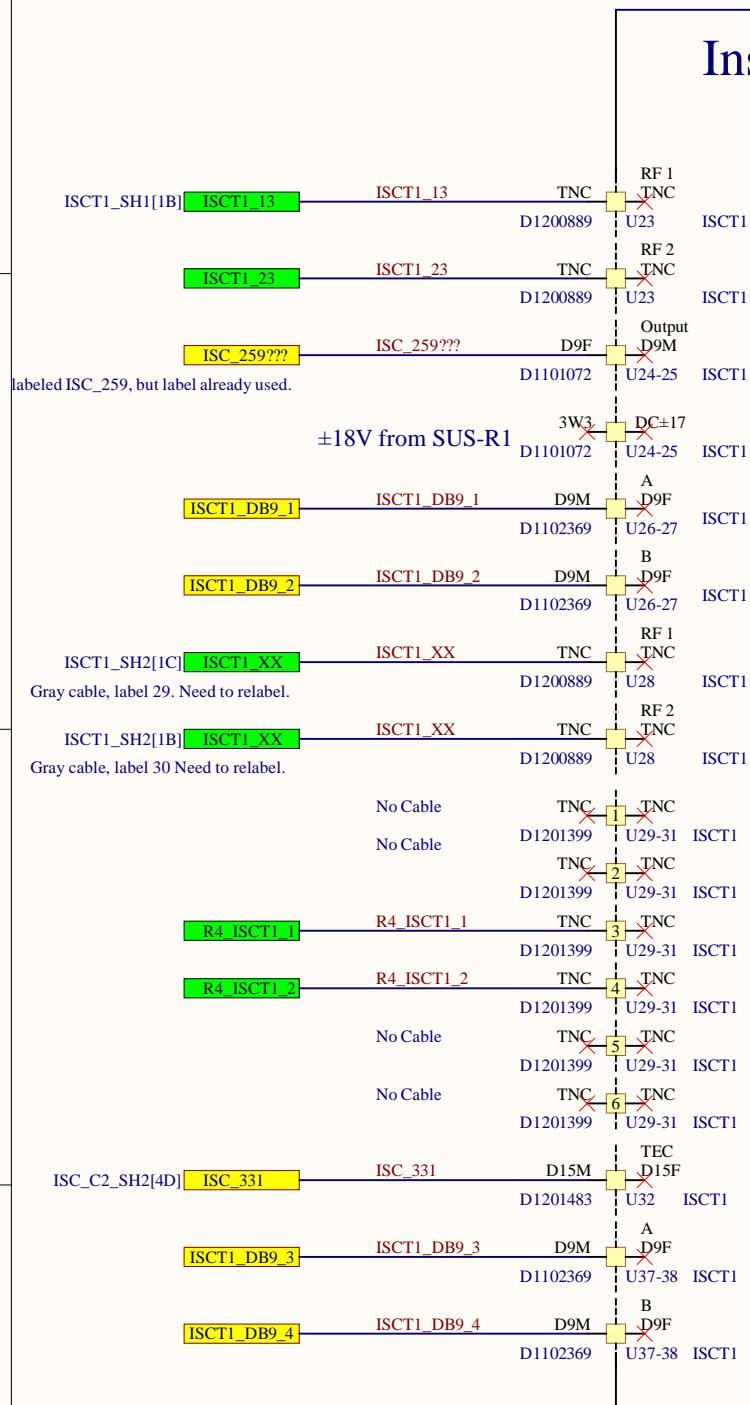
Inside Enclosure



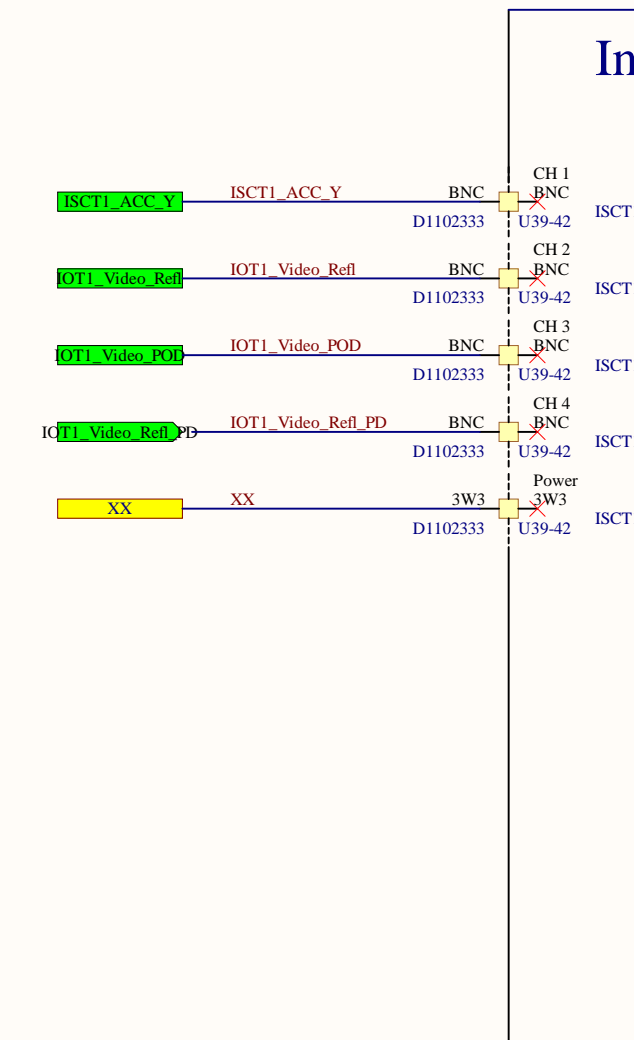
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ISC System Wiring Diagram		
Size	Number	Revision
B	D1900511	V9
Date:	10/31/2023	Sheet of 38
File:	C:\Users\...\ISCT1_SH1.SchDoc	Drawn By: Filiberto Clara

ISCT1 - Right Side

Inside Enclosure

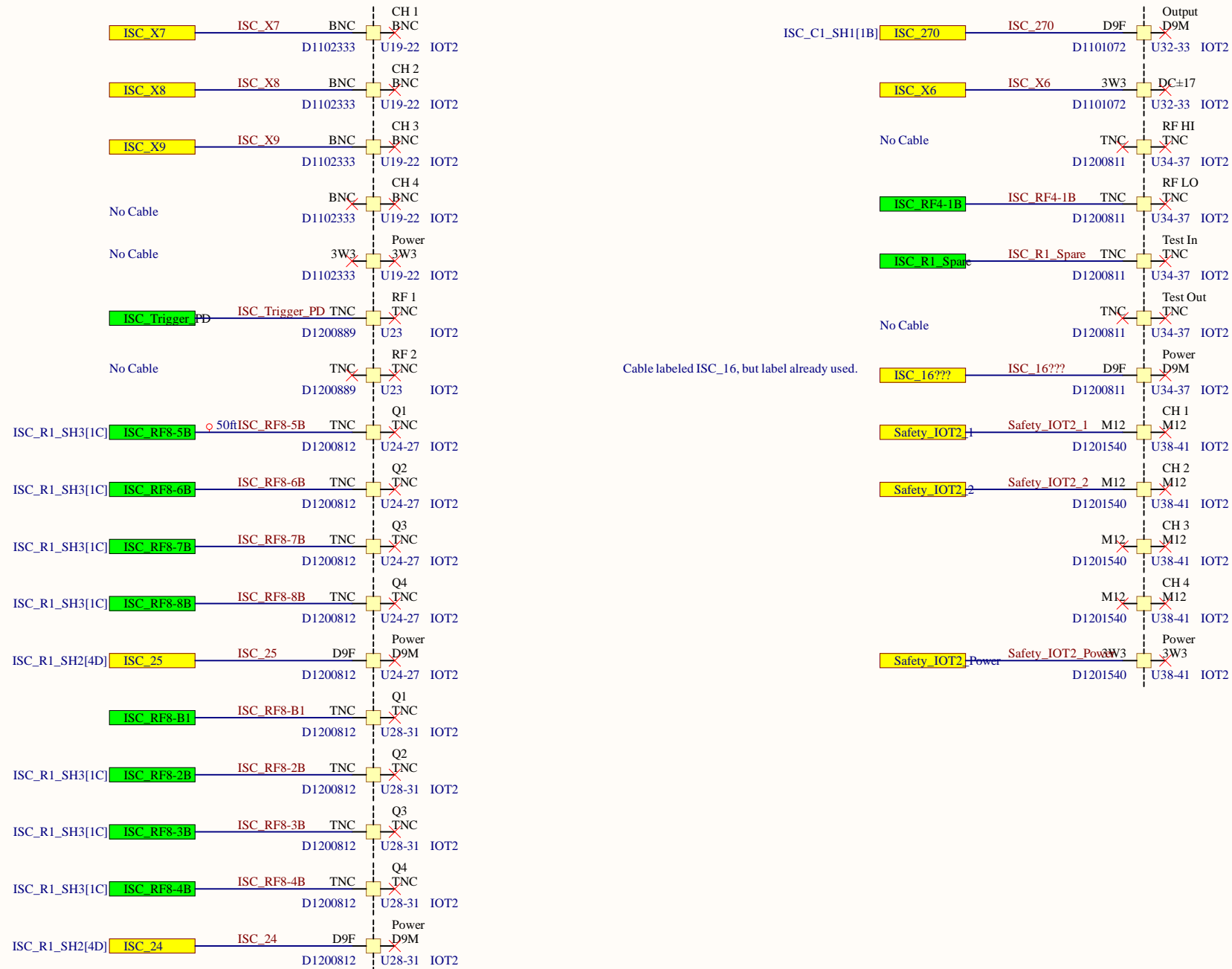


Inside Enclosure



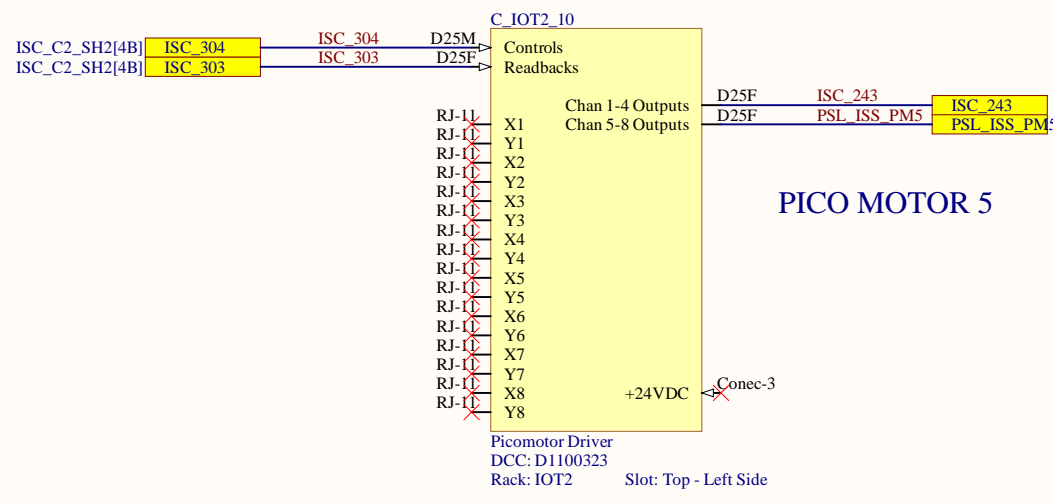
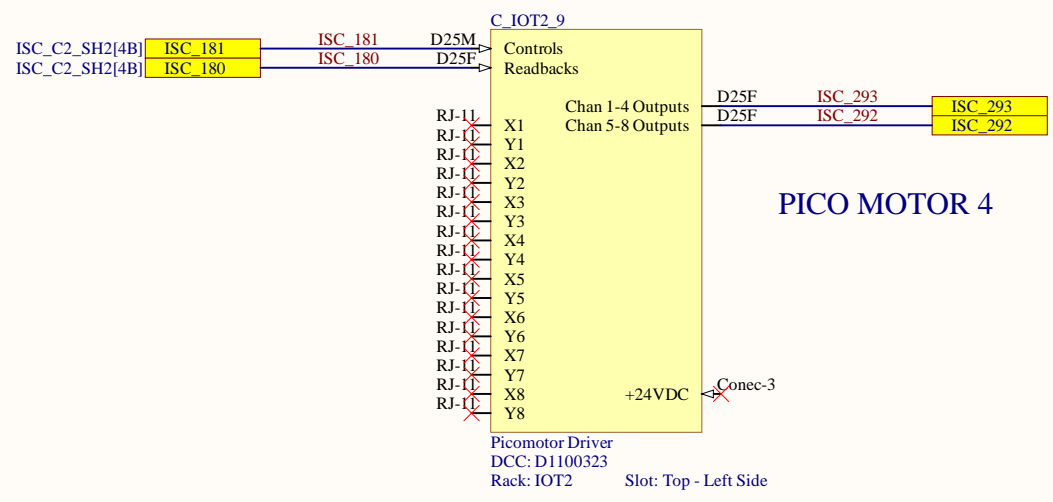
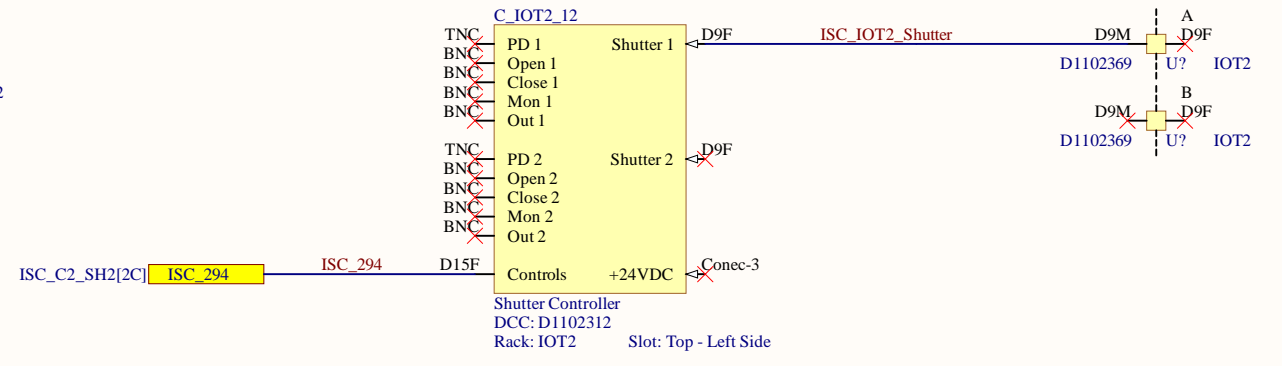
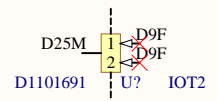
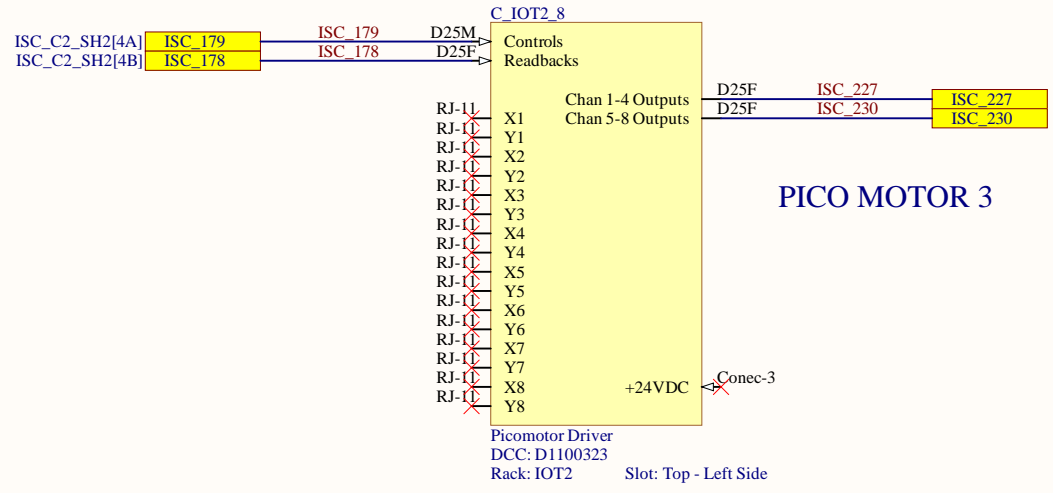
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Size	Number	Revision			
B	D1900511	V9			
Date:	10/31/2023	Sheet	of 4	38	
File:	C:\Users\...\ISCT1_SH2.SchDoc	Drawn By:	Filiberto Clara		

IOT2 - Left Side



Cable labeled ISC_16, but label already used.

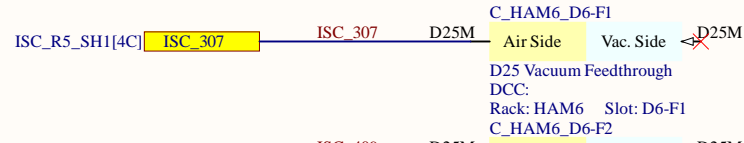
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ISC System Wiring Diagram		
Size	Number	Revision
B	D1900511	V9
Date:	10/31/2023	Sheet of 5 38
File:	C:\Users\Filiberto\IOT2_SH1.SchDoc	Drawn By: Filiberto Clara



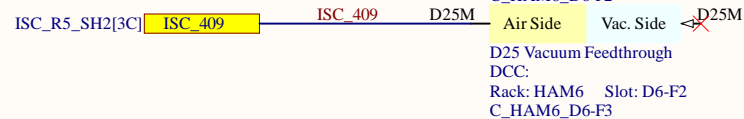
Title		
ISC System Wiring Diagram		
Size	Number	Revision
B	D1900511	V9
Date:	10/31/2023	Sheet of 6 38
File:	C:\Users\...IOT2_SH2.SchDoc	Drawn By: Filiberto Clara

HAM6 Flange Layout

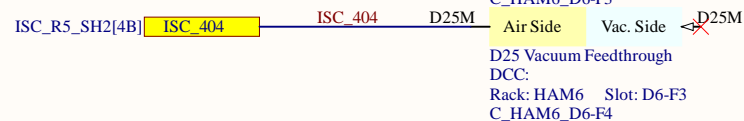
DCPD



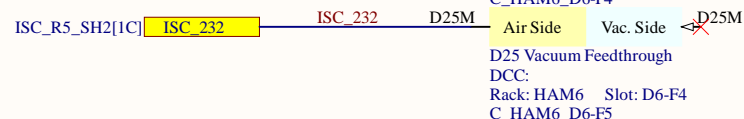
PZTs



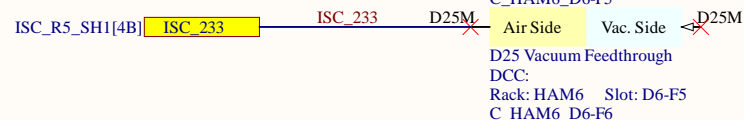
OMC QPD



OMCR QPD

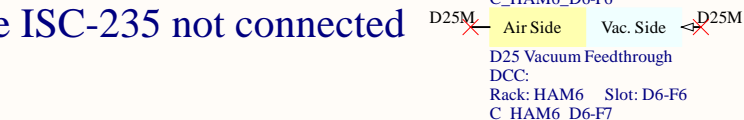


AS_C QPD

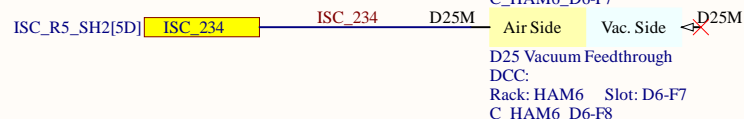


OMCR/AS Picomotor

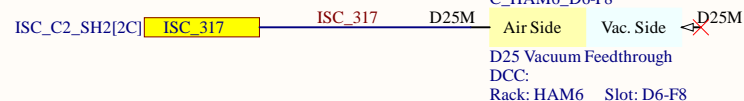
Cable ISC-235 not connected



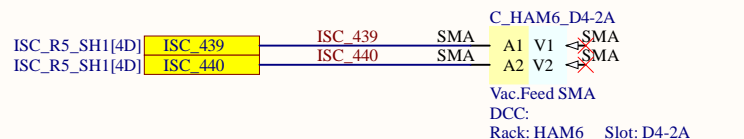
AS_C Picomotor



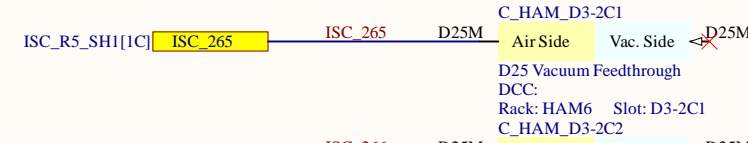
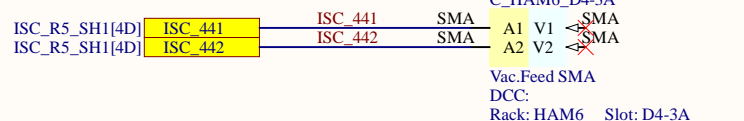
Beam diverter



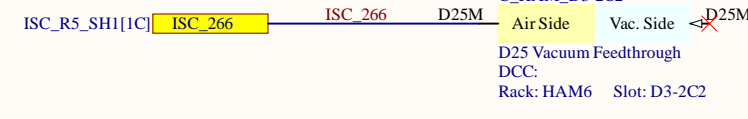
DCPD 3.1MHz A/B



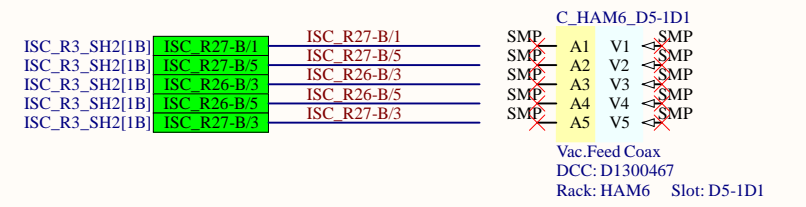
DCPD 3.1MHz C/D



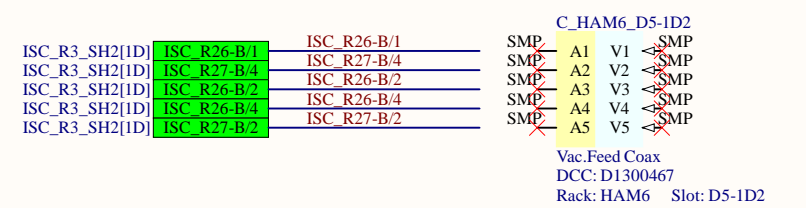
AS_A WFS DC



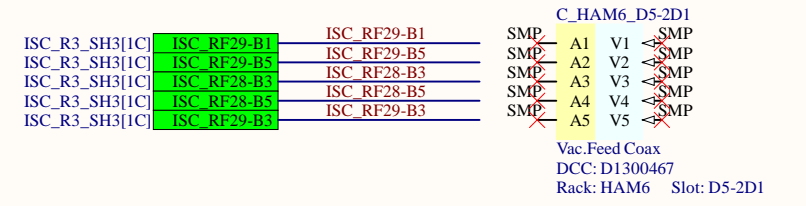
AS_B WFS DC



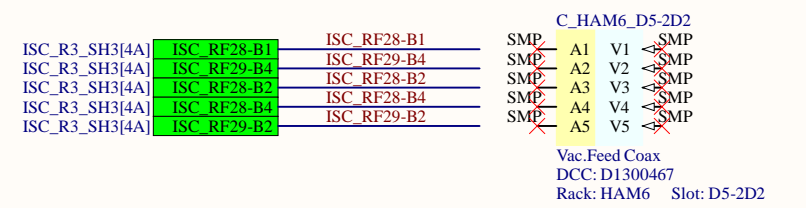
AS_A WFS 36MHz



AS_A WFS 45MHz



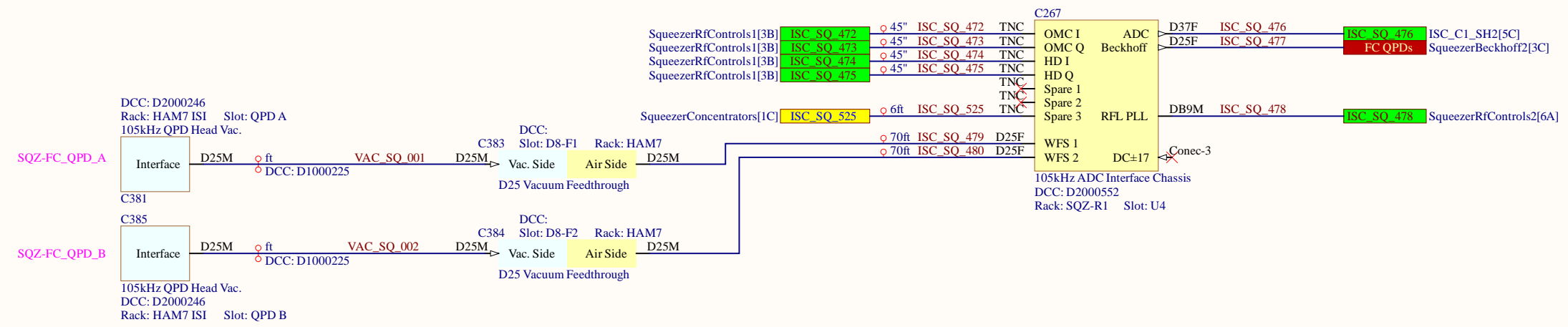
AS_B WFS 36MHz



AS_B WFS 45MHz

Need to check WFS RF!

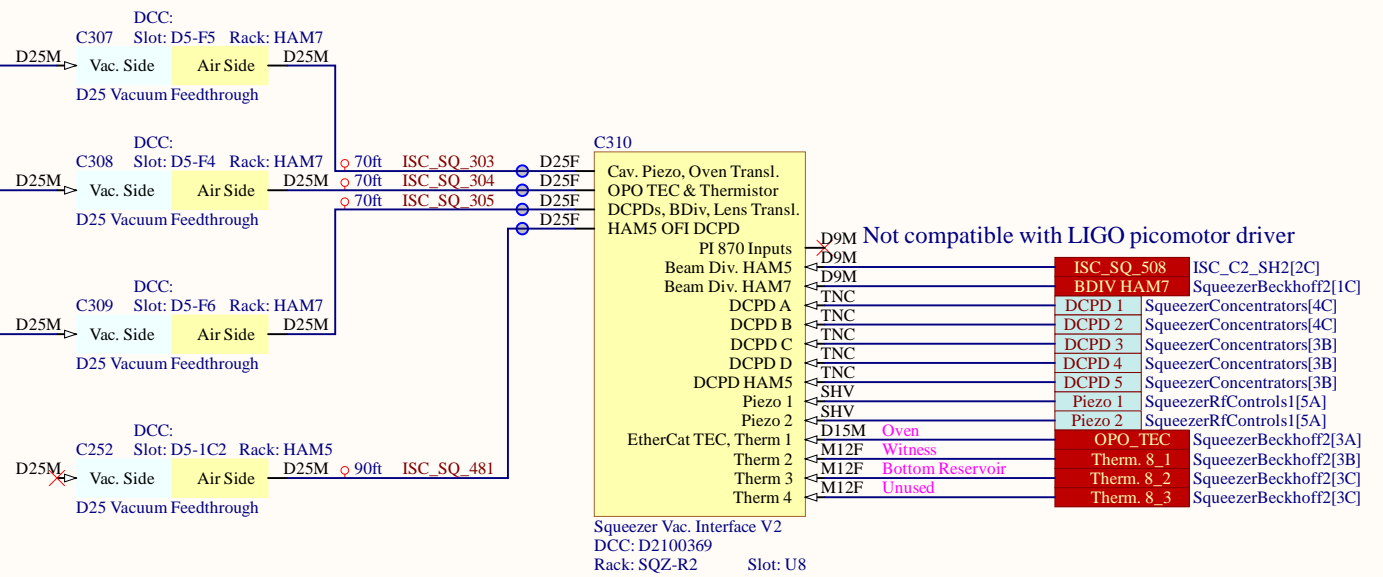
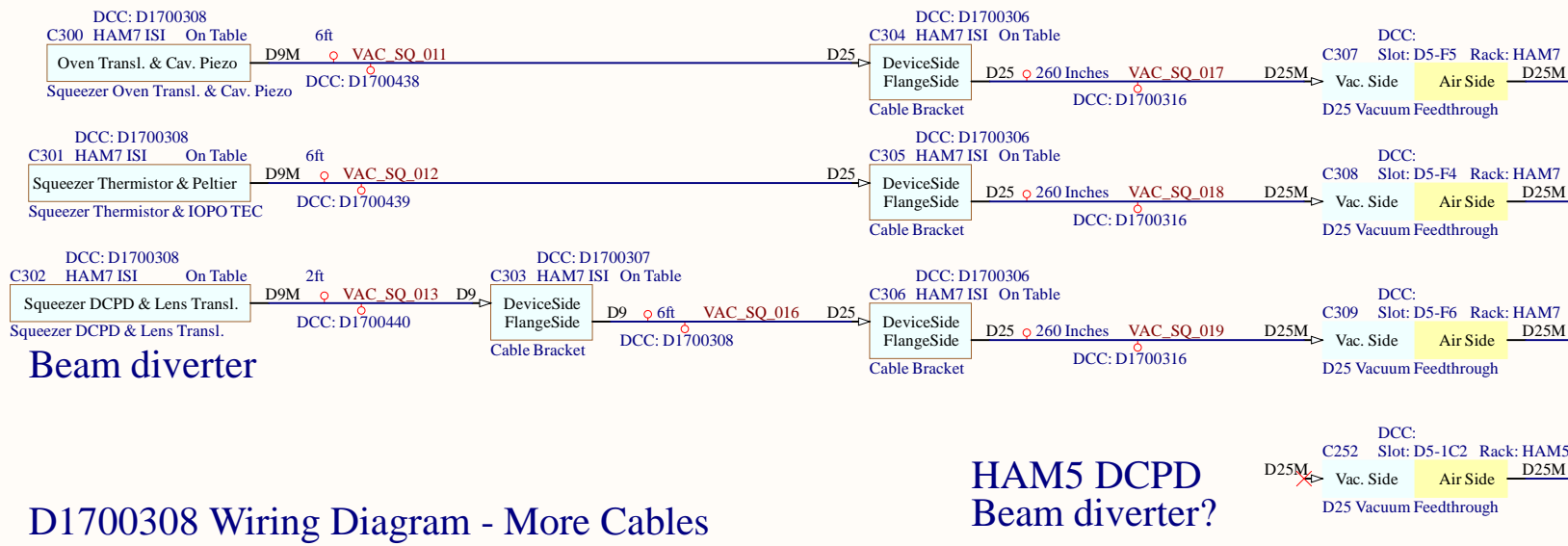
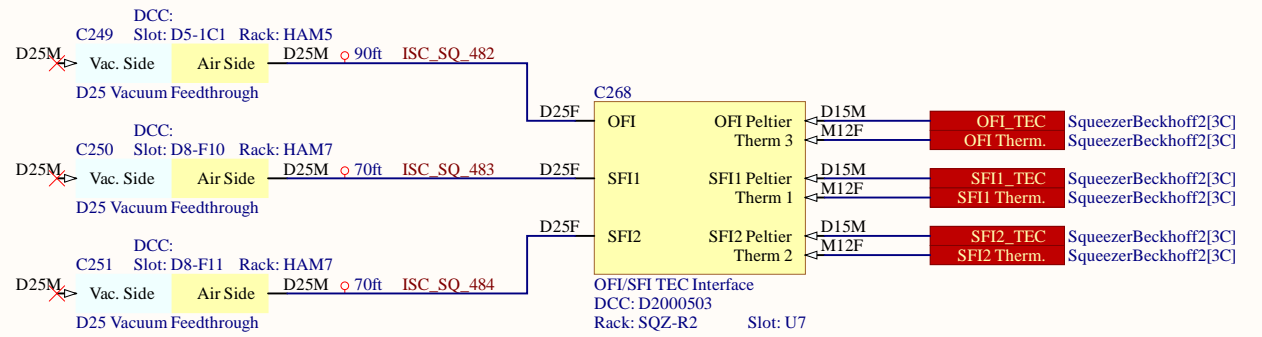
Title			
ISC System Wiring Diagram			
Size	Number	Revision	
B	D1900511	V9	
Date:	10/31/2023	Sheet of	27 38
File:	C:\Users\...\\HAM6_SH1.SchDoc	Drawn By:	Filiberto Clara



Key

- Ties to Beckhoff Ties to Beckhoff
- Ties to RF Distribution Ties to RF Distribution
- Dot Identifies Cable Shield Terminating to Backshell
- ▷ Pin With Triangle Indicates Pin on Rear or the Like
- ◁ Pin With No Triangle Indicates Pin on Front or the Like
- Light Blue Symbols Are In-Vacuum
- Yellow Symbols Are In-Air

Title		
Squeezer Wavefront Sensing		
Size	Number	Revision
B	D1900511	V9
Date:	10/31/2023	Sheet of 28 38
File:	C:\Users\...\SqueezerWfsWiring.SchDoc	Drawn By: R. Abbott



Ties to Beckhoff

Key

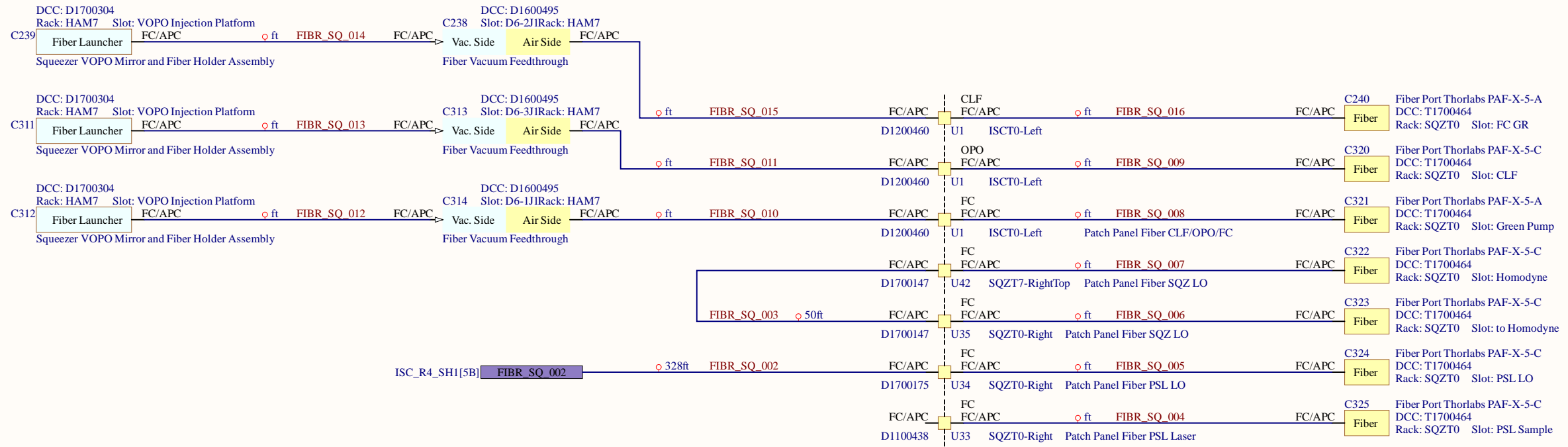
- Dot Identifies Cable Shield Terminating to Backshell
- Pin With Triangle Indicates Pin on Rear or the Like
- Pin With No Triangle Indicates Pin on Front or the Like
- Light Blue Symbols Are In-Vacuum
- Yellow Symbols Are In-Air

	LHO	LLO
DCPD A	Green pump	Green pump
DCPD B	Red CLF	Red CLF
DCPD C	Green FC	Green FC
DCPD D	OPI_A HAM7	OPI_A HAM7
DCPD HAM5	OPI_B HAM5	OPI_B HAM5

FC

CLF

OPO



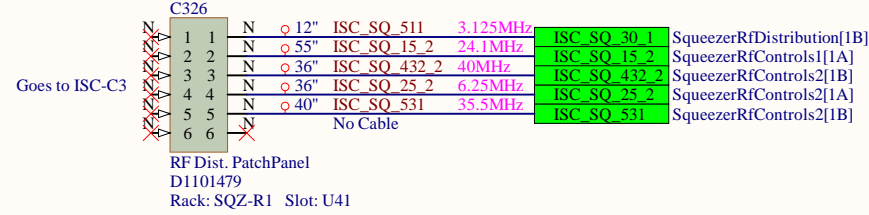
Last Edited: 9/22/2023

Title Squeezer Fiber Connections		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		LIGO	
Size: B	DCC Number: D1900511	Revision: V9	Engineer: R. Abbott	Date: 10/31/2023	Time: 10:36:39 AM

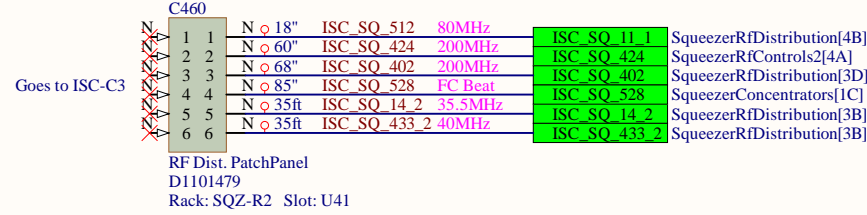
File: C:\Users\daniel.sigg\Documents\Protel\WiringPlan\ISC\D1900511\SqueezerFiber.SchDoc

Sheet 30 of 38

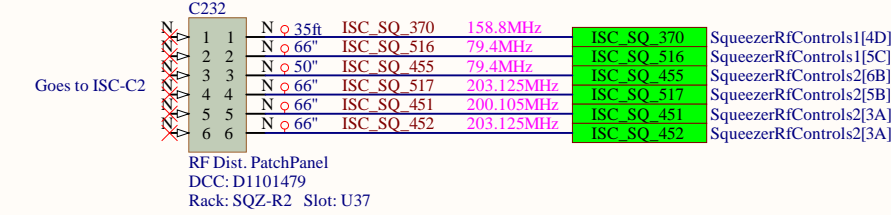
RF Patch Panel 34



RF Patch Panel 36



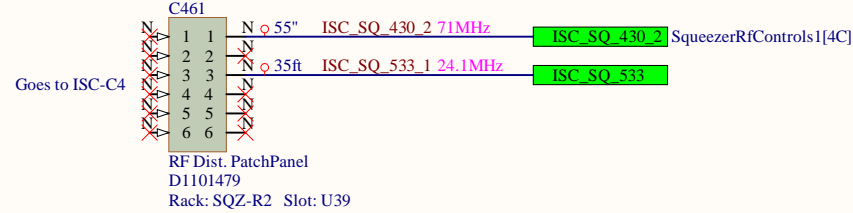
RF Patch Panel 38



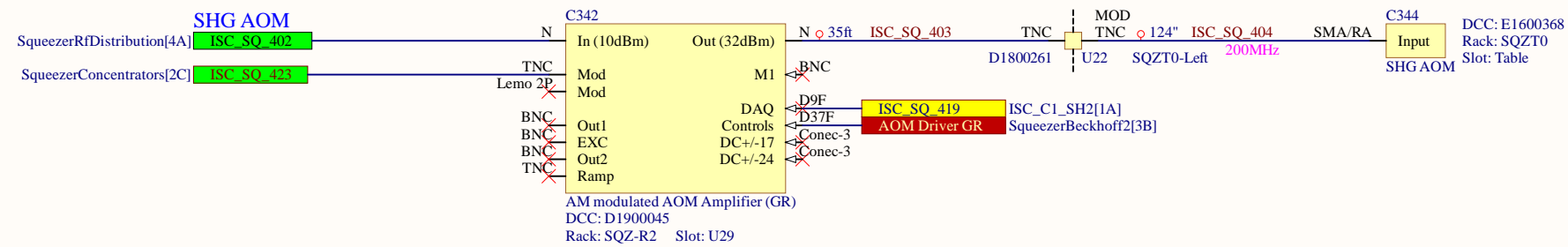
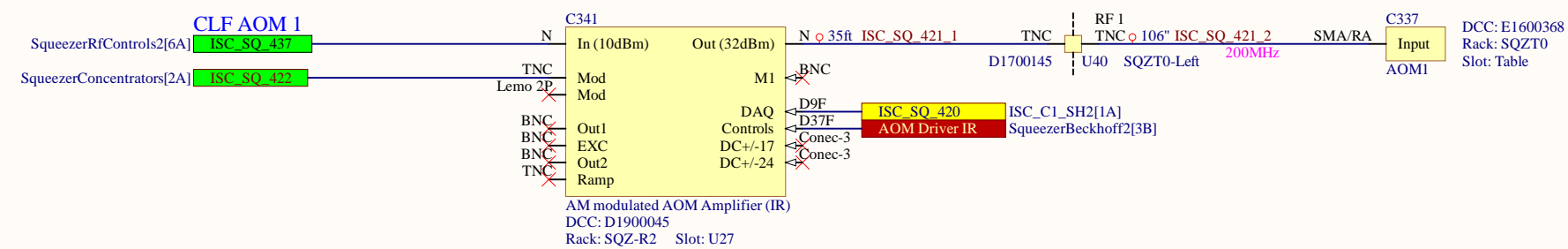
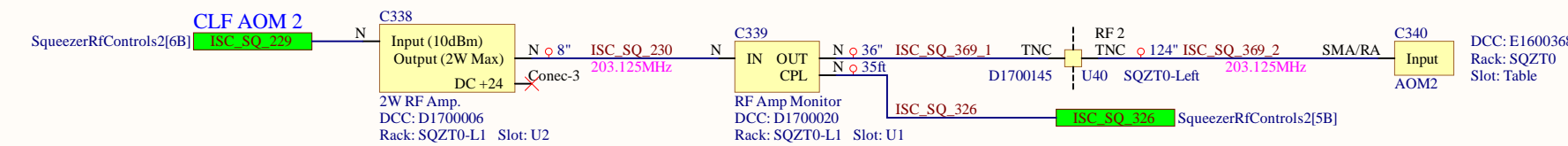
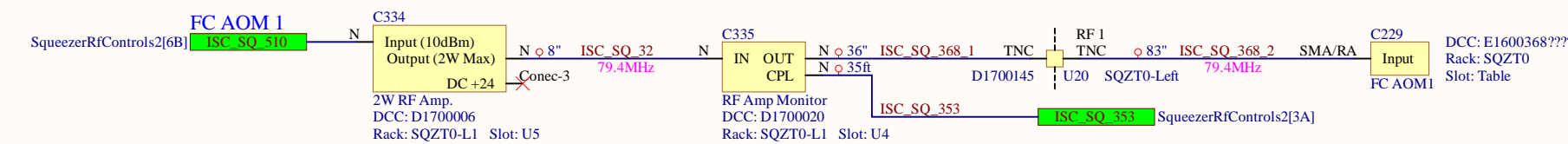
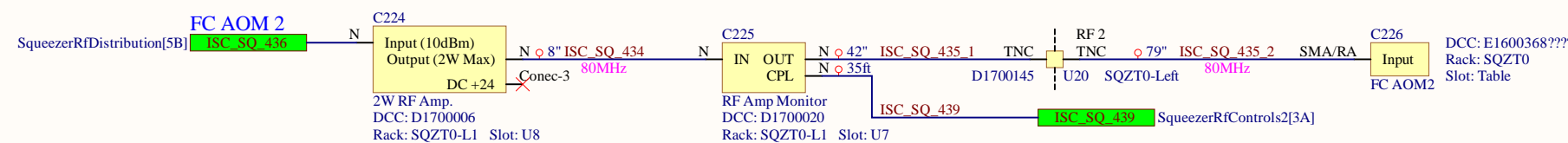
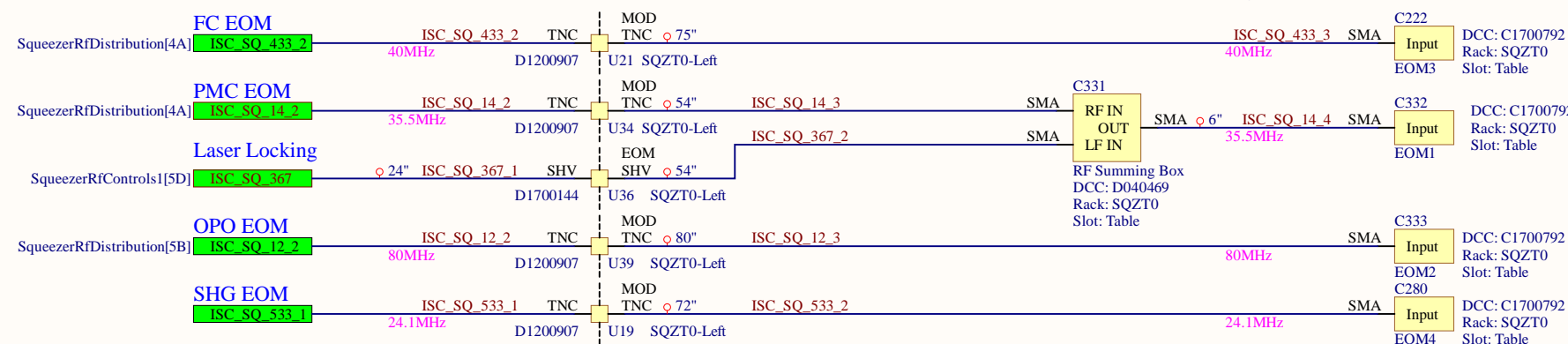
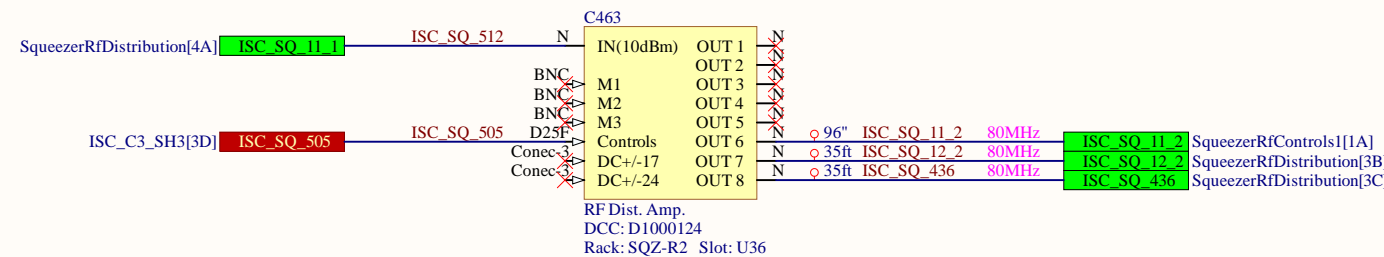
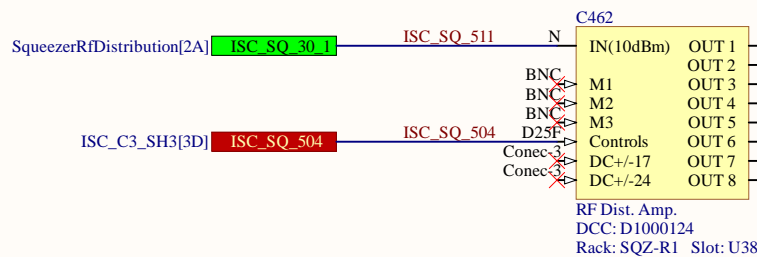
RF Patch Panel 35



RF Patch Panel 37



New cables for A_ start at ISC_SQ_430

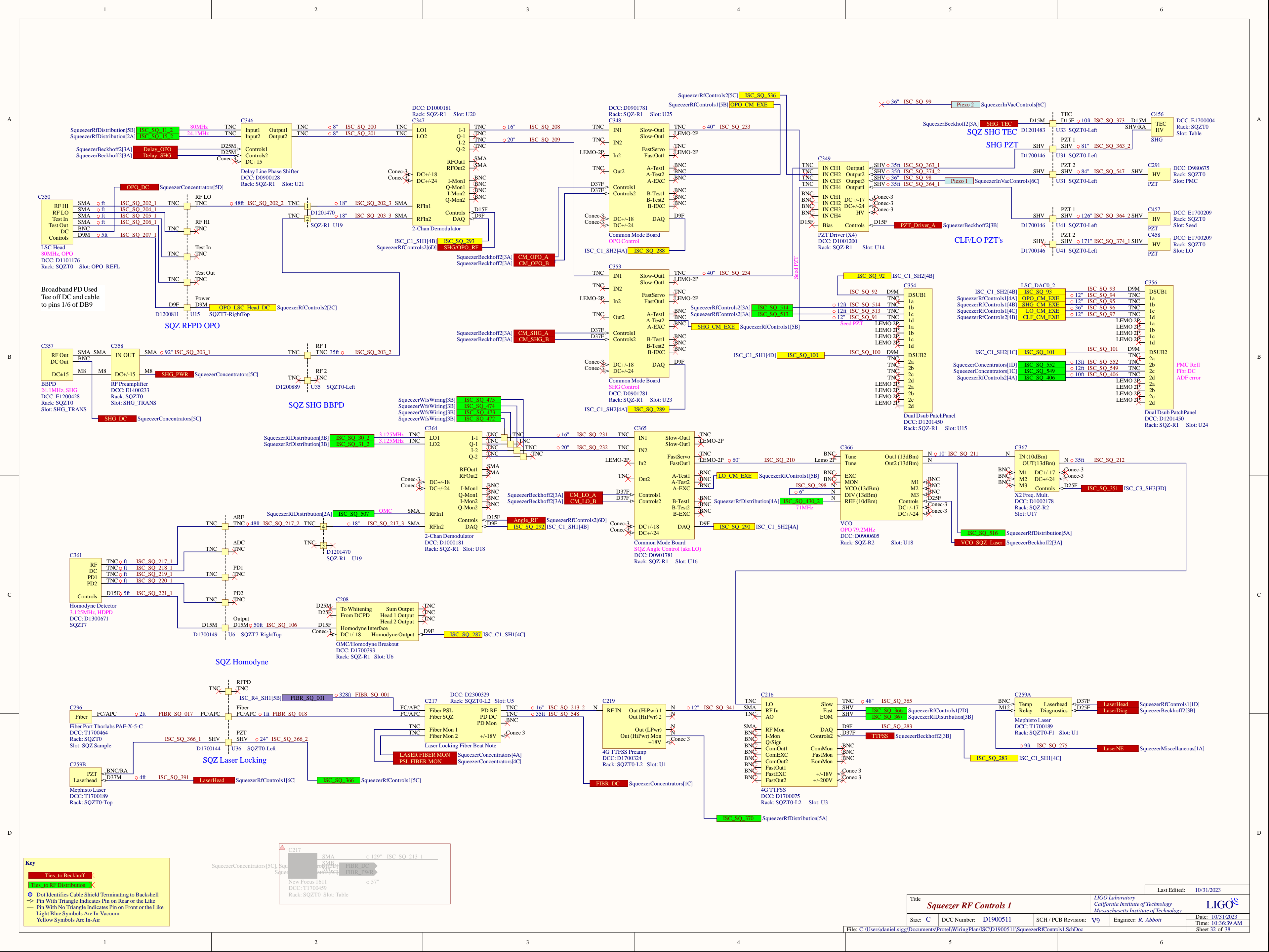


RF cables carrying the AOM signals need to be 1/4" superflexible helical corrugated coax.

Key

- Ties to Beckhoff
- Ties to RF Controls or WFS Wiring
- Dot Identifies Cable Shield Terminating to Backshell
- Pin With Triangle Indicates Pin on Rear or the Like
- Pin With No Triangle Indicates Pin on Front or the Like
- Light Blue Symbols Are In-Vacuum
- Yellow Symbols Are In-Air

Title		
Squeezer RF Distribution		
Size	Number	Revision
C	D1900511	V9
Date:	10/31/2023	Sheet of 31 38
File:	C:\Users\...SqueezerRfDistribution.SchDpDrawn By: R. Abbott	



80MHz
24.1MHz

Delay_OPO
Delay_SHG

SqueezerConcentrators[5D]
RF LO
RF HI

OPO DC
SqueezerConcentrators[5C]

LSC Head
80MHz_OPO
DCC: D1101176
Rack: SQZT0
Slot: OPO_REFL

Broadband PD Used
Tee off DC and cable
to pins 1/6 of DB9

SQZ RFPD OPO

C350
RF HI
RF LO
Test In
Test Out
DC
Controls
D9M 5ft
ISC_SQ_207_1

C346
Input1
Output1
Output2
TNC 8" ISC_SQ_200
TNC 8" ISC_SQ_201

C347
LO1
LO2
I-1
Q-1
I-2
Q-2
SMA
RFOut1
RFOut2
DC+/-18
DC+/-24
I-Mon1
Q-Mon1
I-Mon2
Q-Mon2
BNC
RFIn1
RFIn2
Controls
DAQ
D15F
D9F

C348
IN1
IN2
IN3
IN4
Out1
Out2
A-Test1
A-Test2
A-EXC
B-Test1
B-Test2
B-EXC
DAQ
D9F

C349
IN CH1
IN CH2
IN CH3
IN CH4
Output1
Output2
Output3
Output4
SHV 35ft ISC_SQ_363_1
SHV 36" ISC_SQ_374_2
SHV 35ft ISC_SQ_364_1
Piezo 1
Piezo 2
SqueezerInVacControls[6C]

C353
IN1
IN2
IN3
IN4
Out1
Out2
A-Test1
A-Test2
A-EXC
B-Test1
B-Test2
B-EXC
DAQ
D9F

C354
IN1
IN2
IN3
IN4
Out1
Out2
A-Test1
A-Test2
A-EXC
B-Test1
B-Test2
B-EXC
DAQ
D9F

C355
IN1
IN2
IN3
IN4
Out1
Out2
A-Test1
A-Test2
A-EXC
B-Test1
B-Test2
B-EXC
DAQ
D9F

C356
IN1
IN2
IN3
IN4
Out1
Out2
A-Test1
A-Test2
A-EXC
B-Test1
B-Test2
B-EXC
DAQ
D9F

C361
RF
DC
PD1
PD2
Controls
D15F 5ft
ISC_SQ_221_1

C364
LO1
LO2
I-1
Q-1
I-2
Q-2
SMA
RFOut1
RFOut2
DC+/-18
DC+/-24
I-Mon1
Q-Mon1
I-Mon2
Q-Mon2
BNC
RFIn1
RFIn2
Controls
DAQ
D15F
D9F

C365
IN1
IN2
IN3
IN4
Out1
Out2
A-Test1
A-Test2
A-EXC
B-Test1
B-Test2
B-EXC
DAQ
D9F

C366
Tune
Tune
Out1 (13dBm)
Out2 (13dBm)
N 10" ISC_SQ_211
N 35ft ISC_SQ_212
M1 DC+/-17
M2 DC+/-24
M3 Controls
D25F
D37F
DC+/-17
DC+/-24
Conec-3
Conec-3

C367
IN (10dBm)
OUT (13dBm)
N 35ft ISC_SQ_212
M1 DC+/-17
M2 DC+/-24
M3 Controls
D25F
D37F
DC+/-17
DC+/-24
Conec-3
Conec-3

C216
LO
RF In
AO
Slow
Fast
EOM
SHV 35ft ISC_SQ_365
SHV 36" ISC_SQ_366
SMA
BNC
RF Mon
I-Mon
Q/Sig
ComOut1
ComExc
ComOut2
FastOut1
FastExc
FastOut2
+/-18V
+/-200V
Conec 3
Conec 3

C217
Fiber PSL
Fiber SQZ
PD RF
PD DC
PD Mon
Fiber Mon 1
Fiber Mon 2
+/-18V
Conec 3
Laser Locking Fiber Beat Note
LASER FIBER MON
PSL FIBER MON
SqueezerConcentrators[4A]
SqueezerConcentrators[4C]

C219
RF In
Out (HiPwr) 1
Out (HiPwr) 2
N 12" ISC_SQ_341
N 35ft ISC_SQ_548
4G TTFSS Preamp
DCC: D1700324
Rack: SQZT0-L2
Slot: U1

C259A
Temp
Relay
Diagnostics
LaserHead
LaserDrag
SqueezerRFControls[11D]
SqueezerBeckhoff2[3B]

C296
Fiber
FC/APC 2ft
FIBR_SQ_017
FC/APC 1ft
FIBR_SQ_018
Fiber Port Thorlabs PAF-X-5-C
DCC: T1700464
Rack: SQZT0
Slot: SQZ.Sample

C299B
PZT
Laserhead
D37M 4ft
ISC_SQ_391
LaserHead
SqueezerRFControls[16C]

C208
To Whiting
From DCPD
Sum Output
Head 1 Output
Head 2 Output
Homodyne Interface
DC+/-18
Homodyne Output
OMC/Homodyne Breakout
DCC: D1700393
Rack: SQZ-R1
Slot: U6

C216
LO
RF In
AO
Slow
Fast
EOM
SHV 35ft ISC_SQ_365
SHV 36" ISC_SQ_366
SMA
BNC
RF Mon
I-Mon
Q/Sig
ComOut1
ComExc
ComOut2
FastOut1
FastExc
FastOut2
+/-18V
+/-200V
Conec 3
Conec 3

C217
Fiber PSL
Fiber SQZ
PD RF
PD DC
PD Mon
Fiber Mon 1
Fiber Mon 2
+/-18V
Conec 3
Laser Locking Fiber Beat Note
LASER FIBER MON
PSL FIBER MON
SqueezerConcentrators[4A]
SqueezerConcentrators[4C]

C219
RF In
Out (HiPwr) 1
Out (HiPwr) 2
N 12" ISC_SQ_341
N 35ft ISC_SQ_548
4G TTFSS Preamp
DCC: D1700324
Rack: SQZT0-L2
Slot: U1

C259A
Temp
Relay
Diagnostics
LaserHead
LaserDrag
SqueezerRFControls[11D]
SqueezerBeckhoff2[3B]

C296
Fiber
FC/APC 2ft
FIBR_SQ_017
FC/APC 1ft
FIBR_SQ_018
Fiber Port Thorlabs PAF-X-5-C
DCC: T1700464
Rack: SQZT0
Slot: SQZ.Sample

C299B
PZT
Laserhead
D37M 4ft
ISC_SQ_391
LaserHead
SqueezerRFControls[16C]

C208
To Whiting
From DCPD
Sum Output
Head 1 Output
Head 2 Output
Homodyne Interface
DC+/-18
Homodyne Output
OMC/Homodyne Breakout
DCC: D1700393
Rack: SQZ-R1
Slot: U6

C216
LO
RF In
AO
Slow
Fast
EOM
SHV 35ft ISC_SQ_365
SHV 36" ISC_SQ_366
SMA
BNC
RF Mon
I-Mon
Q/Sig
ComOut1
ComExc
ComOut2
FastOut1
FastExc
FastOut2
+/-18V
+/-200V
Conec 3
Conec 3

C217
Fiber PSL
Fiber SQZ
PD RF
PD DC
PD Mon
Fiber Mon 1
Fiber Mon 2
+/-18V
Conec 3
Laser Locking Fiber Beat Note
LASER FIBER MON
PSL FIBER MON
SqueezerConcentrators[4A]
SqueezerConcentrators[4C]

C219
RF In
Out (HiPwr) 1
Out (HiPwr) 2
N 12" ISC_SQ_341
N 35ft ISC_SQ_548
4G TTFSS Preamp
DCC: D1700324
Rack: SQZT0-L2
Slot: U1

C259A
Temp
Relay
Diagnostics
LaserHead
LaserDrag
SqueezerRFControls[11D]
SqueezerBeckhoff2[3B]

C296
Fiber
FC/APC 2ft
FIBR_SQ_017
FC/APC 1ft
FIBR_SQ_018
Fiber Port Thorlabs PAF-X-5-C
DCC: T1700464
Rack: SQZT0
Slot: SQZ.Sample

C299B
PZT
Laserhead
D37M 4ft
ISC_SQ_391
LaserHead
SqueezerRFControls[16C]

C208
To Whiting
From DCPD
Sum Output
Head 1 Output
Head 2 Output
Homodyne Interface
DC+/-18
Homodyne Output
OMC/Homodyne Breakout
DCC: D1700393
Rack: SQZ-R1
Slot: U6

C216
LO
RF In
AO
Slow
Fast
EOM
SHV 35ft ISC_SQ_365
SHV 36" ISC_SQ_366
SMA
BNC
RF Mon
I-Mon
Q/Sig
ComOut1
ComExc
ComOut2
FastOut1
FastExc
FastOut2
+/-18V
+/-200V
Conec 3
Conec 3

C217
Fiber PSL
Fiber SQZ
PD RF
PD DC
PD Mon
Fiber Mon 1
Fiber Mon 2
+/-18V
Conec 3
Laser Locking Fiber Beat Note
LASER FIBER MON
PSL FIBER MON
SqueezerConcentrators[4A]
SqueezerConcentrators[4C]

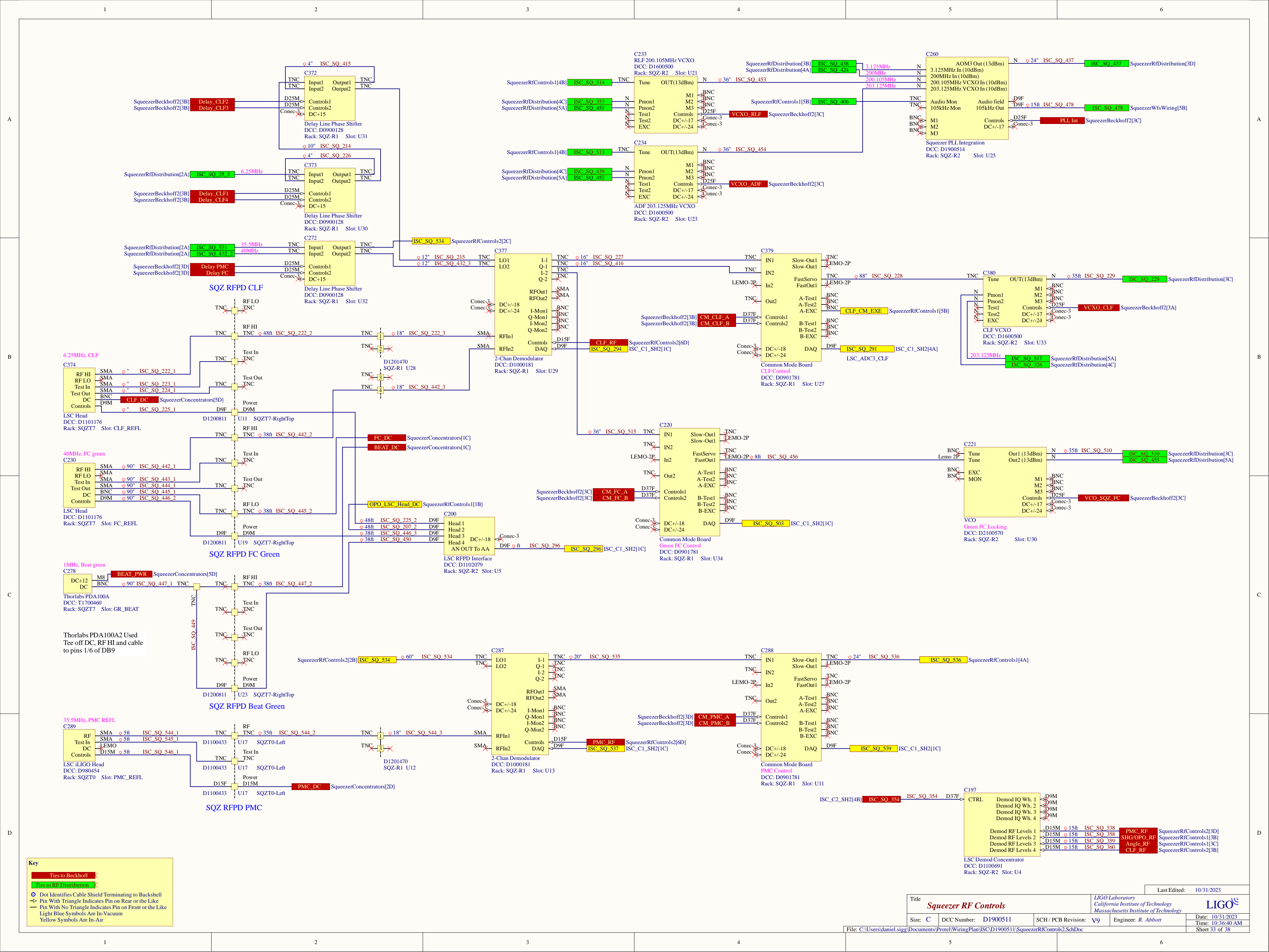
Key

- Ties to Beckhoff
- Ties to RF Distribution
- Dot Identifies Cable Shield Terminating to Backshell
- Pin With Triangle Indicates Pin on Rear or the Like
- Pin With No Triangle Indicates Pin on Front or the Like
- Light Blue Symbols Are In-Vacuum
- Yellow Symbols Are In-Air

C217
SMA 129" ISC_SQ_213_1
SMB
FIBR_DC
FIBR_PWR
New Focus 1611
DCC: T1700459
Rack: SQZT0
Slot: Table

Last Edited: 10/31/2023

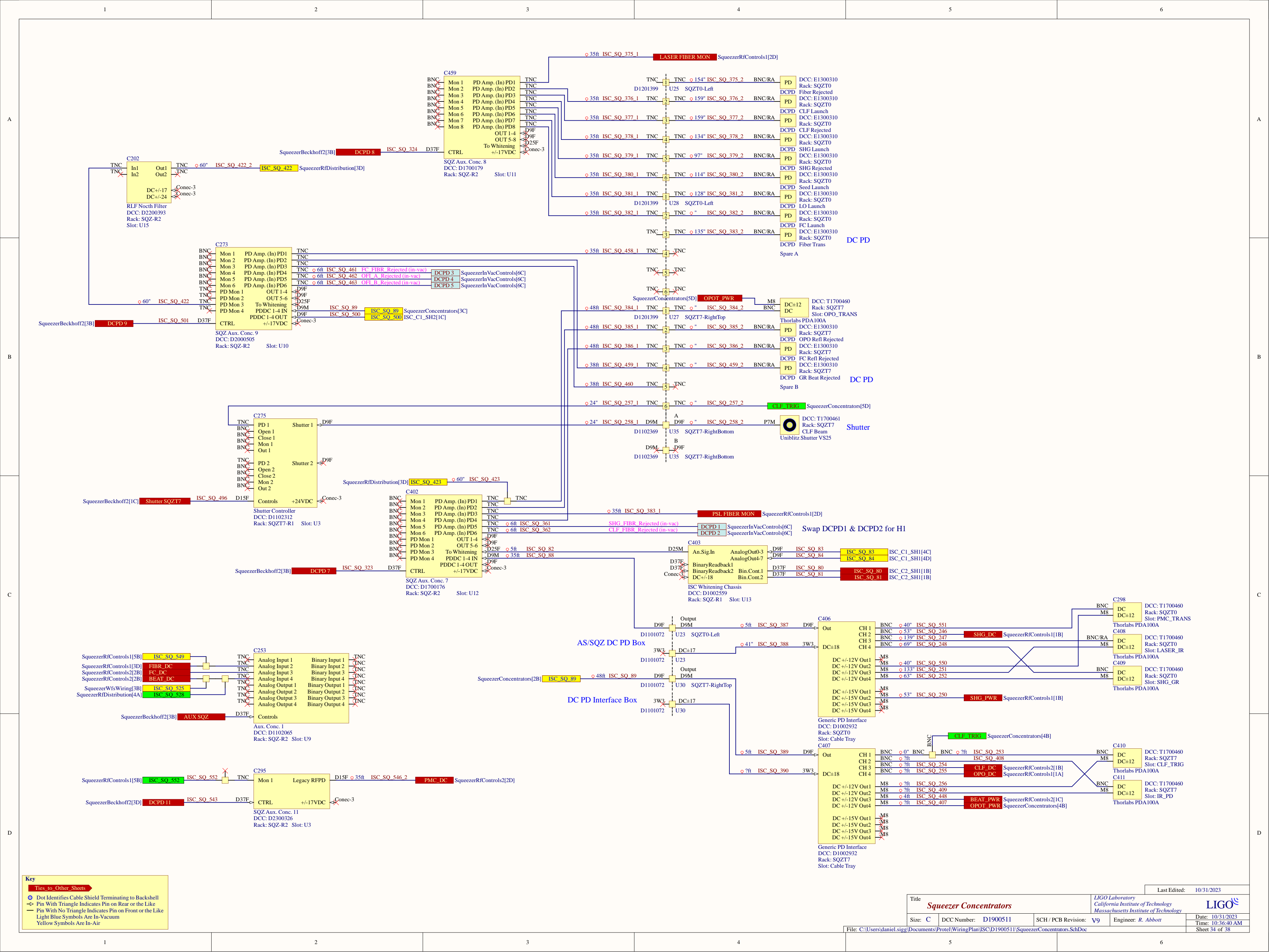
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Size: C	DCC Number: D1900511	SCH / PCB Revision: V9	Engineer: R. Abbott	Date: 10/31/2023	Time: 10:36:39 AM
File: C:\Users\daniel.sig\Documents\Protel\WiringPlan\ISC\D1900511\SqueezerRFControls1.SchDoc					
Sheet 32 of 38					



Key

- Ties to Beckhoff
- Ties to RF Distribution
- Dot Identifies Cable Shield Terminating to Backshell
- ↔ Pin With Triangle Indicates Pin on Rear or the Like
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- Yellow Symbols Are In-Air

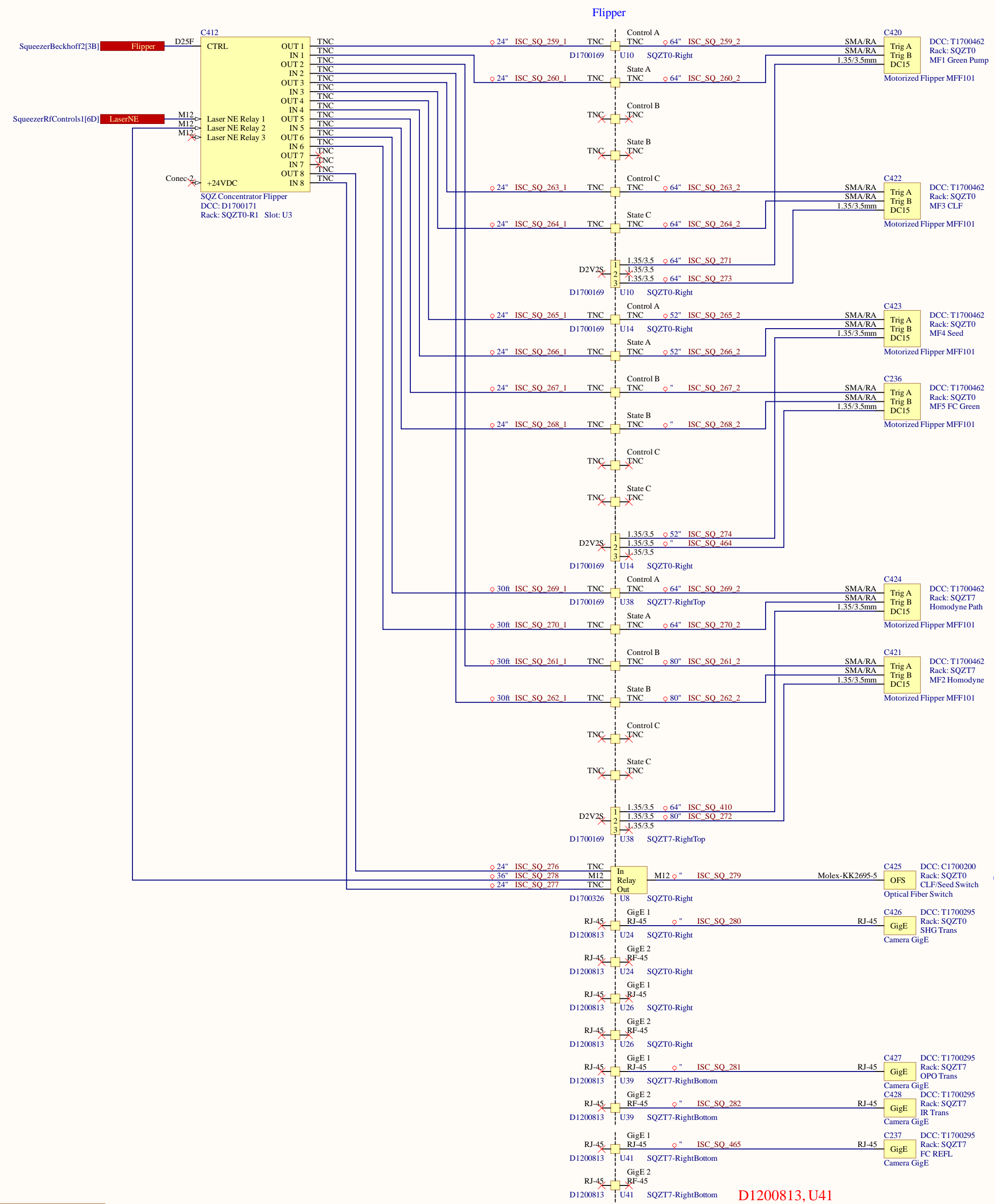
Last Edited: 10/31/2023



Key

- Ties to Other Sheets
- Dot Identifies Cable Shield Terminating to Backshell
- Pin With Triangle Indicates Pin on Rear or the Like
- Pin With No Triangle Indicates Pin on Front or the Like
- Light Blue Symbols Are In-Vacuum
- Yellow Symbols Are In-Air

Title Squeezer Concentrators		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		Last Edited: 10/31/2023	
Size: C	DCC Number: D1900511	SCH / PCB Revision: V9	Engineer: R. Abbott	Date: 10/31/2023	Time: 10:36:40 AM
File: C:\Users\daniel.sig\Documents\Protel\WiringPlan\ISC\D1900511\SqueezerConcentrators.SchDoc					
Sheet 34 of 38					

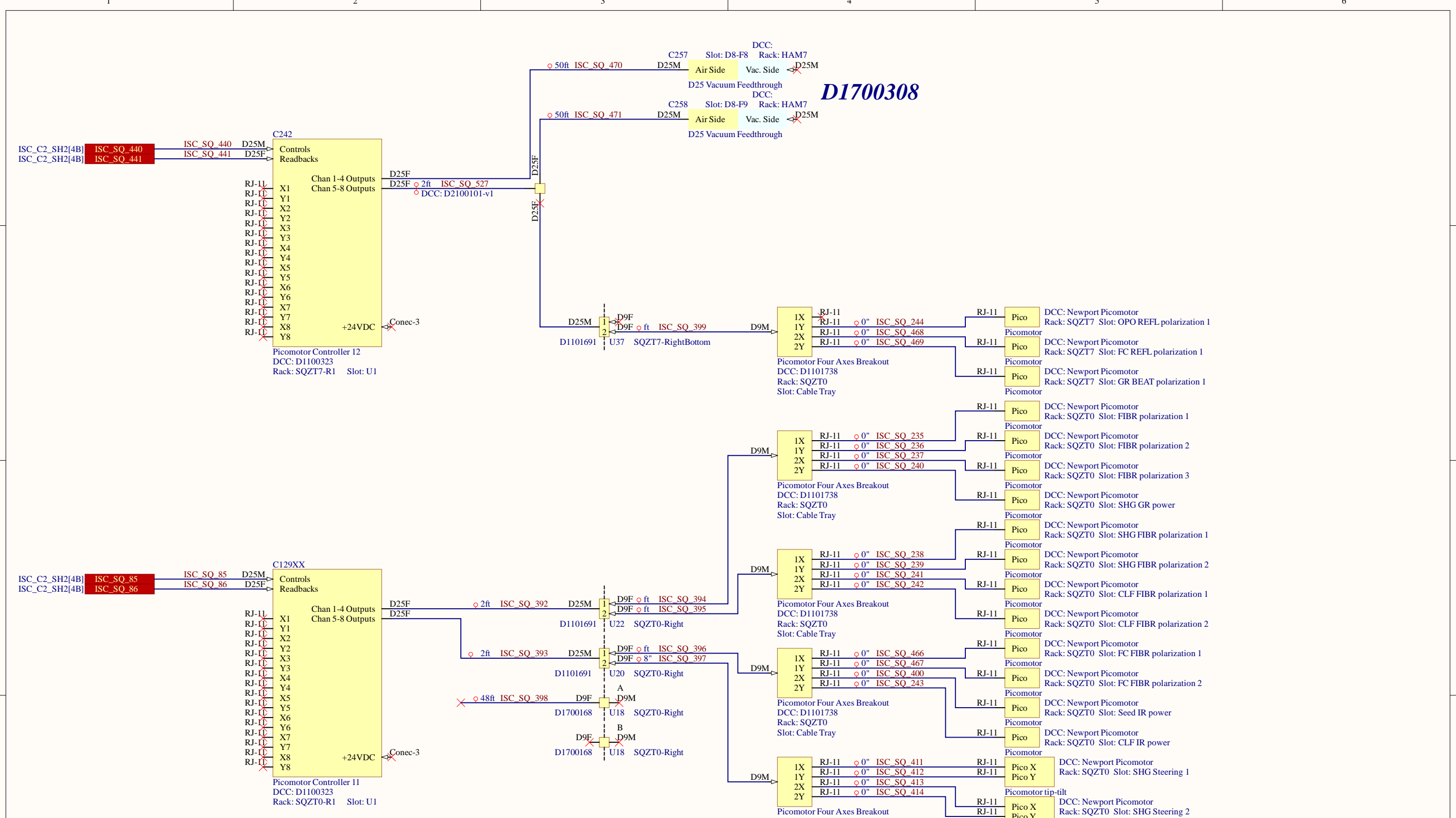


Key

- Ties to Other Sheets
- Dot Identifies Cable Shield Terminating to Backshell
- Pin With Triangle Indicates Pin on Rear or the Like
- Pin With No Triangle Indicates Pin on Front or the Like
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- Yellow Symbols Are In-Air

D1200813, U41
New Cameras per Table Feedthrough Panel

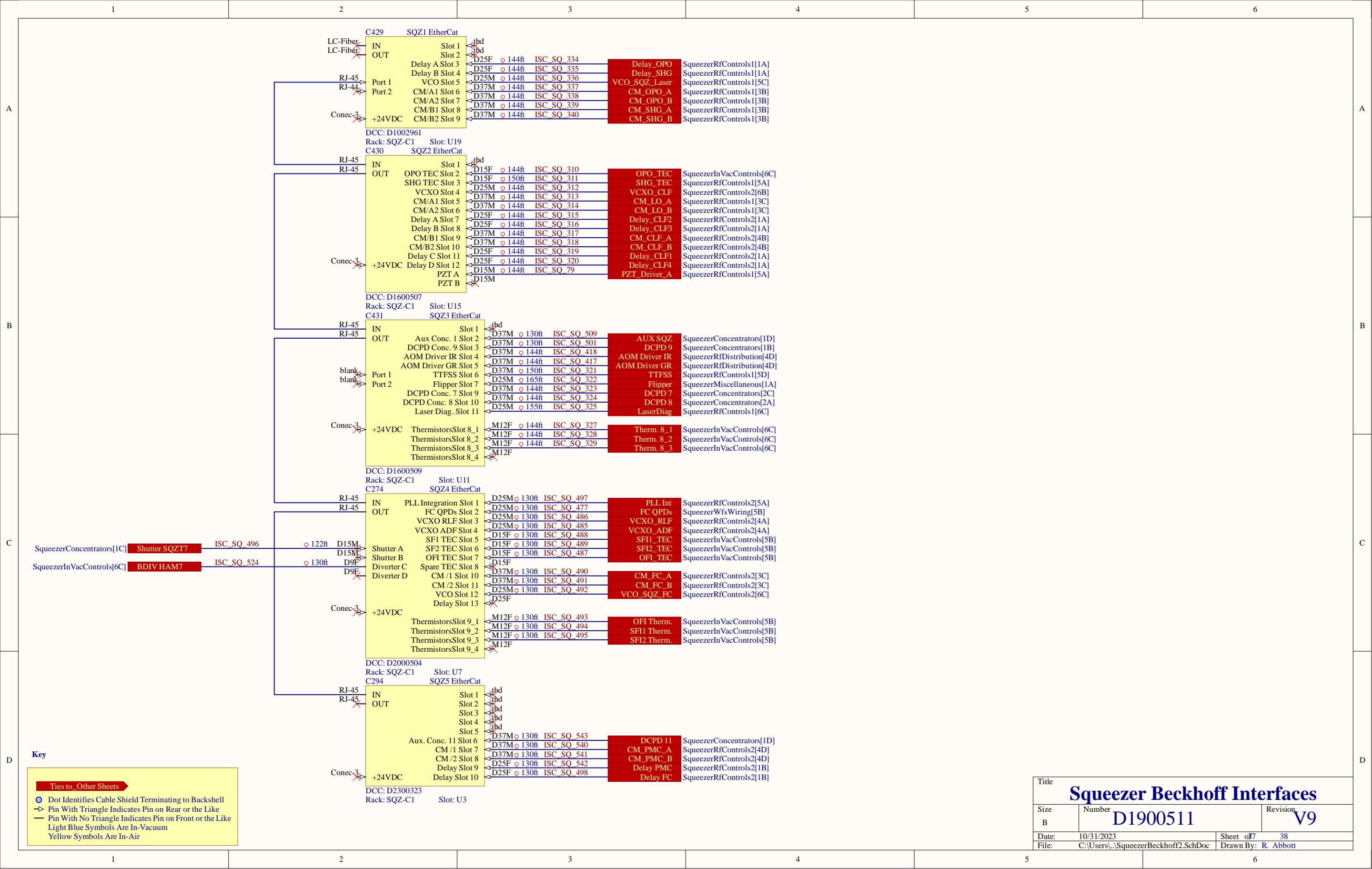
Title Squeezer Miscellaneous		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		LIGO	
Size: C	DCC Number: D1900511	SCH / PCB Revision: V9	Engineer: R. Abbott	Date: 10/31/2023	Time: 10:36:40 AM
File: C:\Users\daniel.sig\Documents\Protel\WiringPlan\ISC\D1900511\SqueezerMiscellaneous.SchDoc				Last Edited: 8/24/2022	
				Sheet 35 of 38	



Key

- Ties to Other Sheets
- Dot Identifies Cable Shield Terminating to Backshell
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- Yellow Symbols Are In-Air

Title		
Squeezer Beckhoff Interfaces		
Size	Number	Revision
B	D1900511	V9
Date:	10/31/2023	Sheet of 6 38
File:	C:\Users\... \SqueezerBeckhoff1.SchDoc	Drawn By: R. Abbott



Key

- Ties to Other Sheets
- Dot Identifies Cable Shield Terminating to Backshell
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Title			
Squeezer Beckhoff Interfaces			
Size	Number	Revision	
B	D1900511	V9	
Date:	10/31/2023	Sheet of 7	38
File:	C:\Users\... \SqueezerBeckhoff2.SchDoc	Drawn By:	R. Abbott