

	LHO	LLO
DCPD1	Red/CLF	Green pump
DCPD2	Green pump	Red/CLF

Key

- Ties to Beckhoff
- Ties to H1 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 In-Vacuum Controls		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		Last Edited: 8/19/2019	
Size: B	DCC Number: D1700384	Revision: V9	Engineer: R. Abbott	Date: 8/19/2019	Time: 11:01:23 AM
File: C:\Users\daniel.siggs\Documents\Protel\WiringPlan\Squeezer\SqueezerInVacControls.SchDoc					



CLF

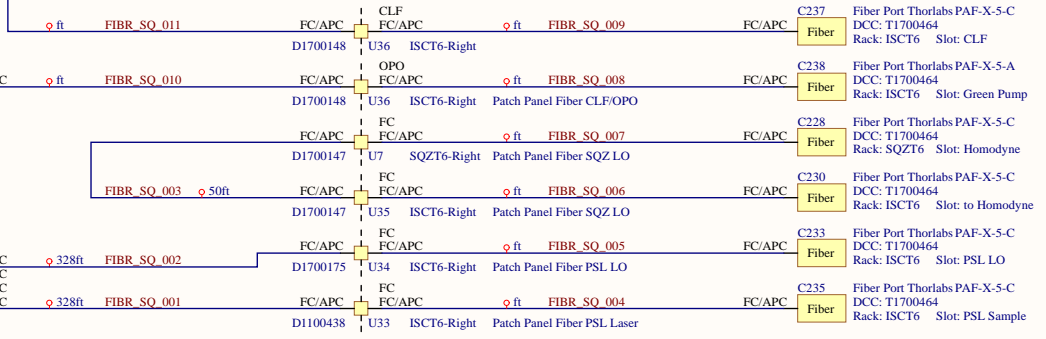
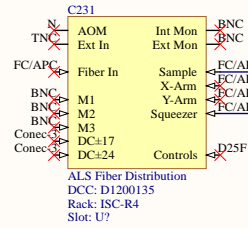
DCC: D1700304
Rack: HAM6 Slot: VOPO Injection Platform
C241 Fiber Launcher FC/APC
Squeezer VOPO Mirror and Fiber Holder Assembly

DCC: D1600495
Slot: D4-3 Rack: HAM6
C240 Vac. Side Air Side FC/APC
Fiber Vacuum Feedthrough

OPO

DCC: D1700304
Rack: HAM6 Slot: VOPO Injection Platform
C243 Fiber Launcher FC/APC
Squeezer VOPO Mirror and Fiber Holder Assembly

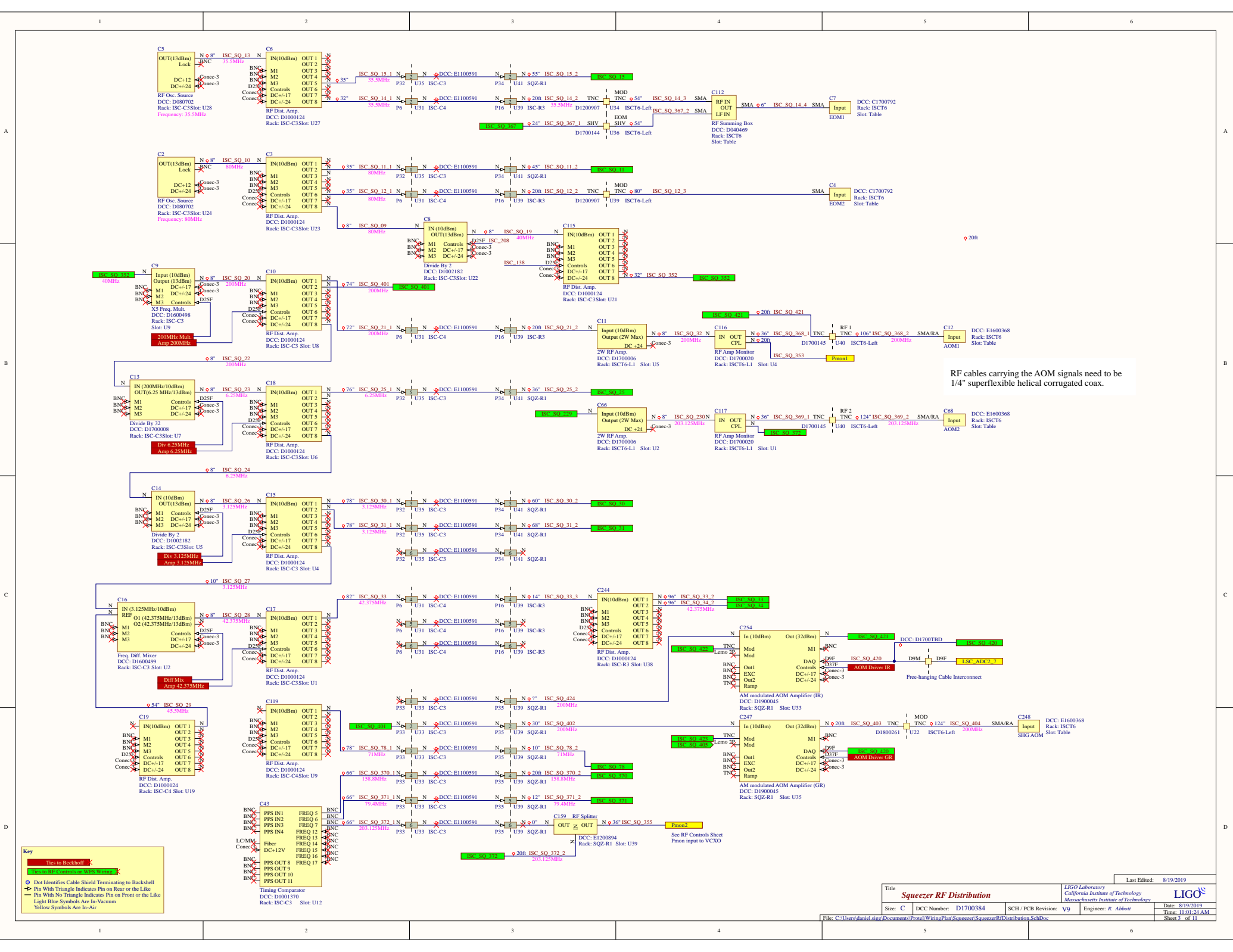
DCC: D1600495
Slot: D4-2 Rack: HAM6
C242 Vac. Side Air Side FC/APC
Fiber Vacuum Feedthrough



Last Edited: 8/19/2019

Title		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		LIGO	
Size: B	DCC Number: D1700384	Revision: V9	Engineer: R. Abbott	Date: 8/19/2019	Time: 11:01:23 AM

File: C:\Users\daniel.sig\Documents\Protel\WiringPlan\Squeezer\SqueezerFiber.SchDoc



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

Key

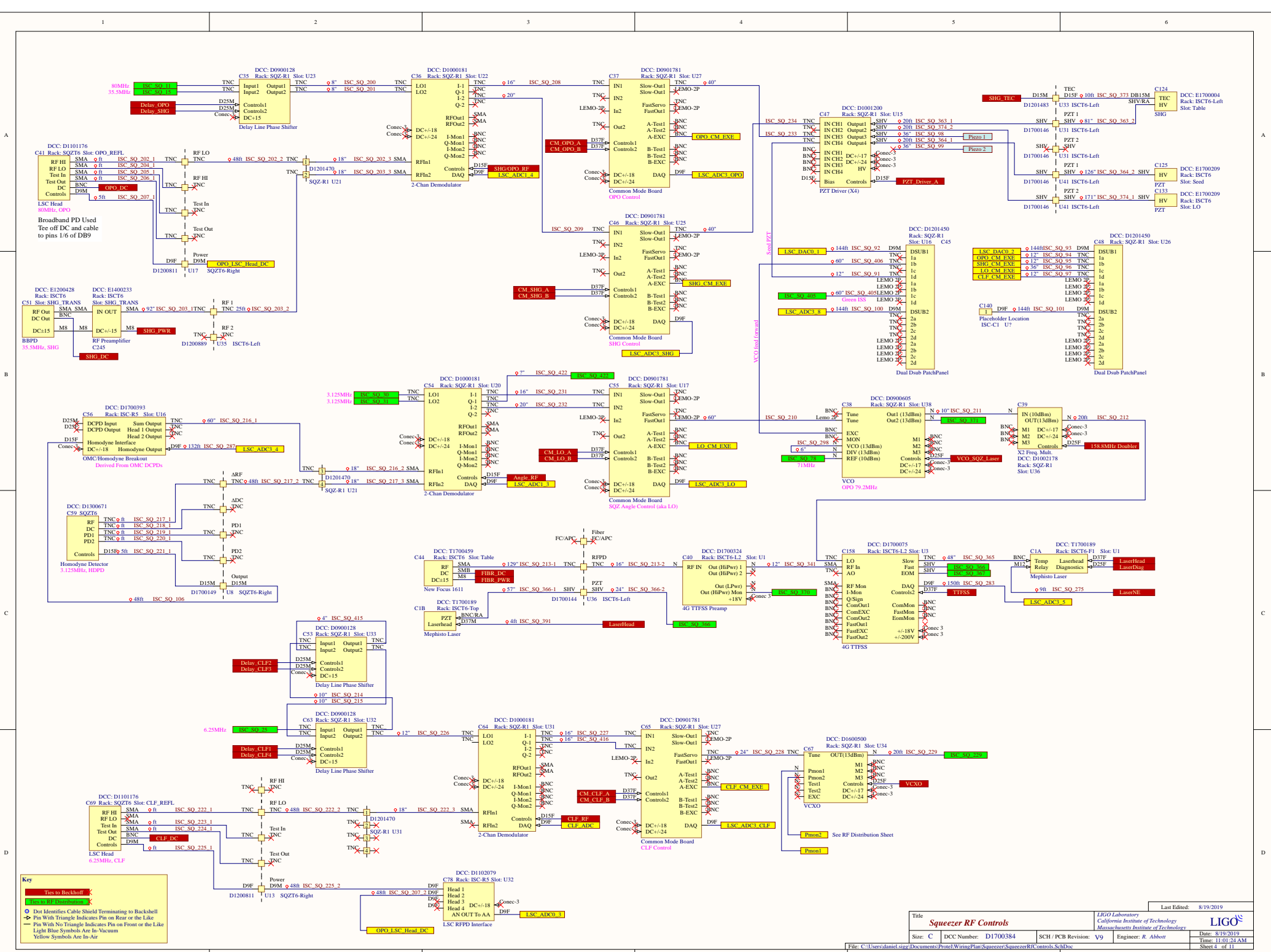
- █ Ties to Backshell
- █ Ties to Ground or VCC or AOM
- Dot Identifies Cable Shield Terminating to Backshell
- ◀ Pin With Triangle Indicates Pin on Rear or the Like
- ▶ Pin With No Triangle Indicates Pin on Front or the Like
- Light Blue Symbols Are In-Vacuum
- Yellow Symbols Are In-Air

See RF Controls Sheet
Pinout input to VCX0

Title Squeezer RF Distribution		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		LIGO	
Size: C	DCC Number: D1700384	SCH / PCB Revision: V9	Engineer: R. Abbott	Date: 8/19/2019	Time: 11:01:24 AM
File: C:\Users\david.sage\Documents\Protel\WiringPlan\Squeezer\SqueezerRF\Distribution_Sch.Dwg					

Last Edited: 8/19/2019

Sheet 3 of 11

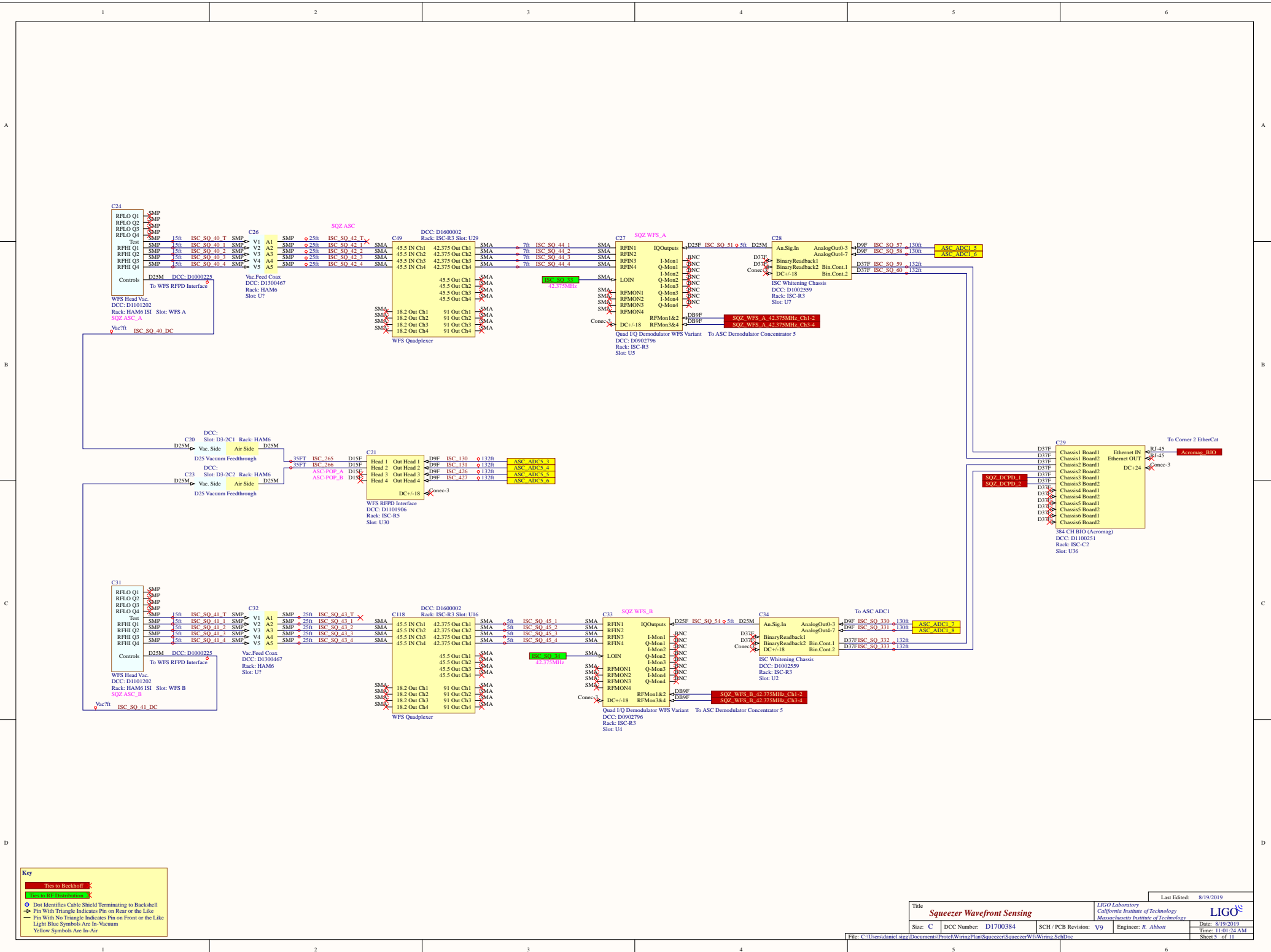


Key

- Ties to Backshell
- 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

Last Edited: 8/19/2019

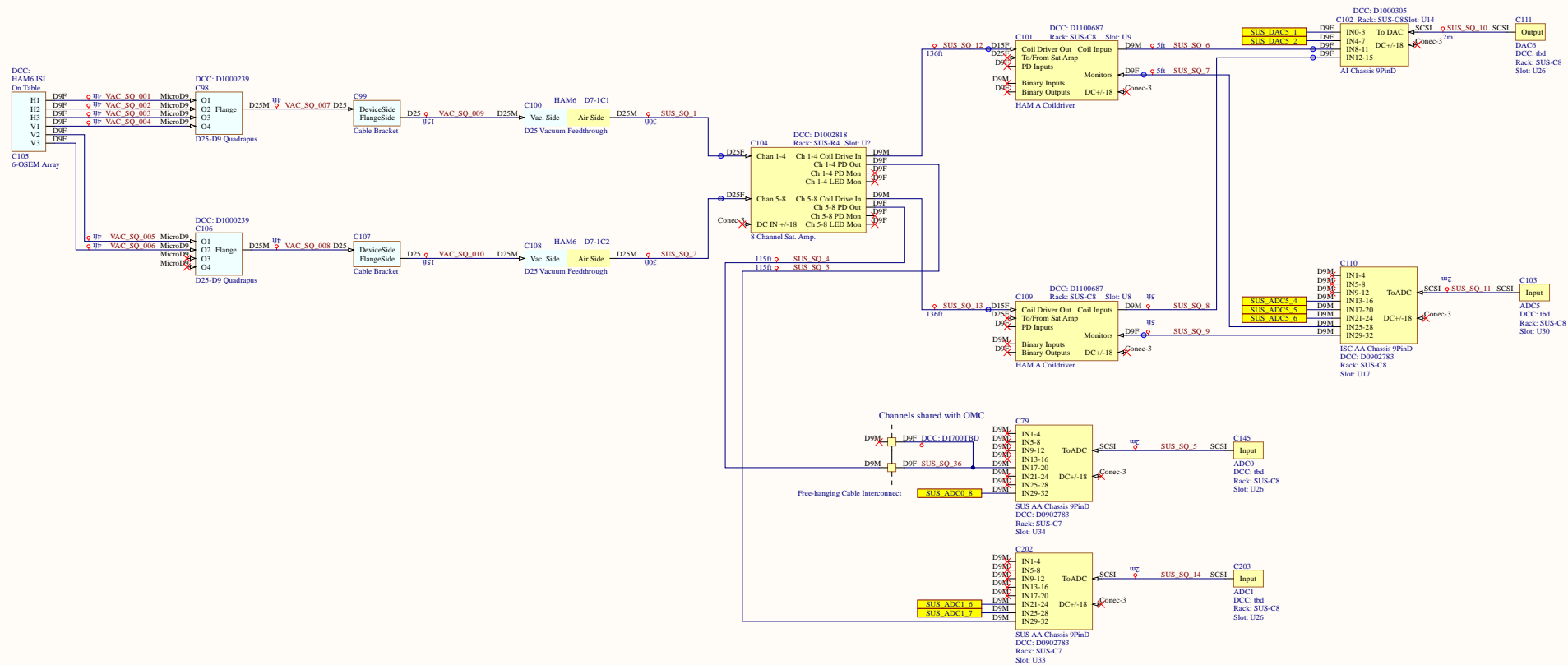
Title Squeezor RF Controls			
LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology			
Size: C	DCC Number: D1700384	SCH / PCB Revision: V9	Engineer: R. Abbott
Date: 8/19/2019			Time: 11:01:24 AM
File: C:\Users\daniel.sagg\Documents\Protel\WiringPlan\Squeezor\SqueezorRFControls.SchDoc			Sheet 4 of 11



Key

- Ties to Backshell
- Dots 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

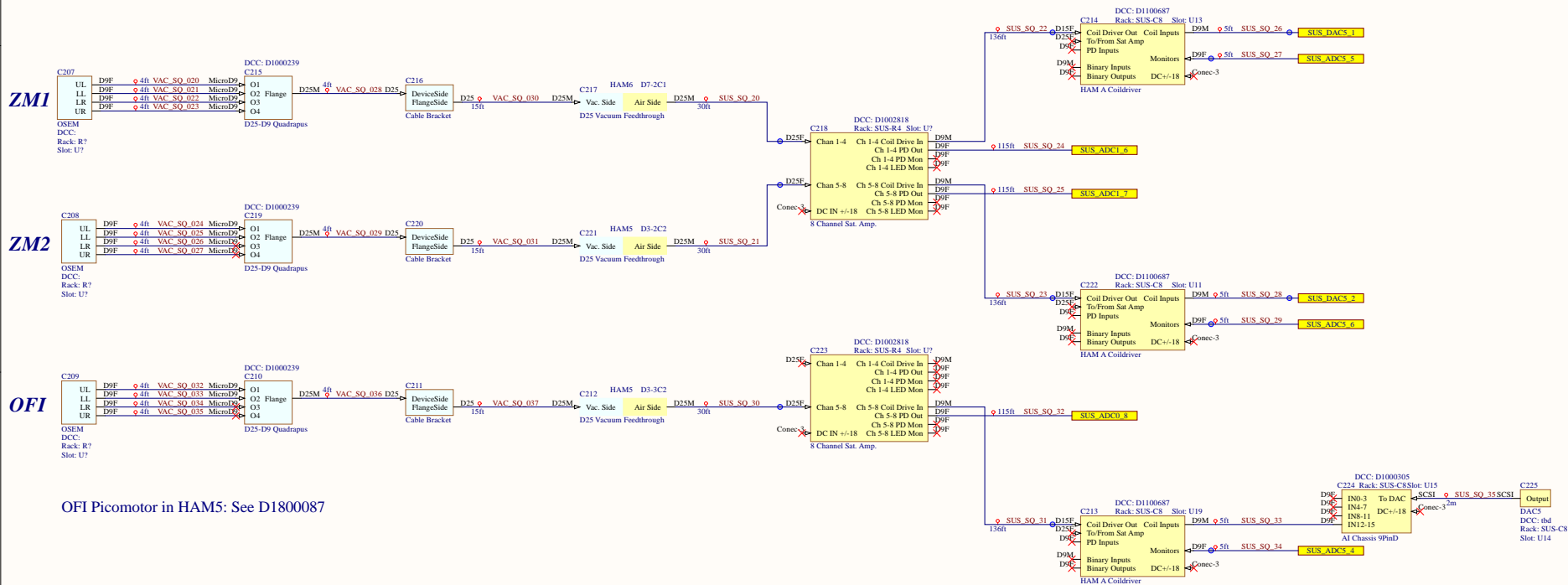
VOPO Suspension Chain



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

ZM/OFI Suspension Chains



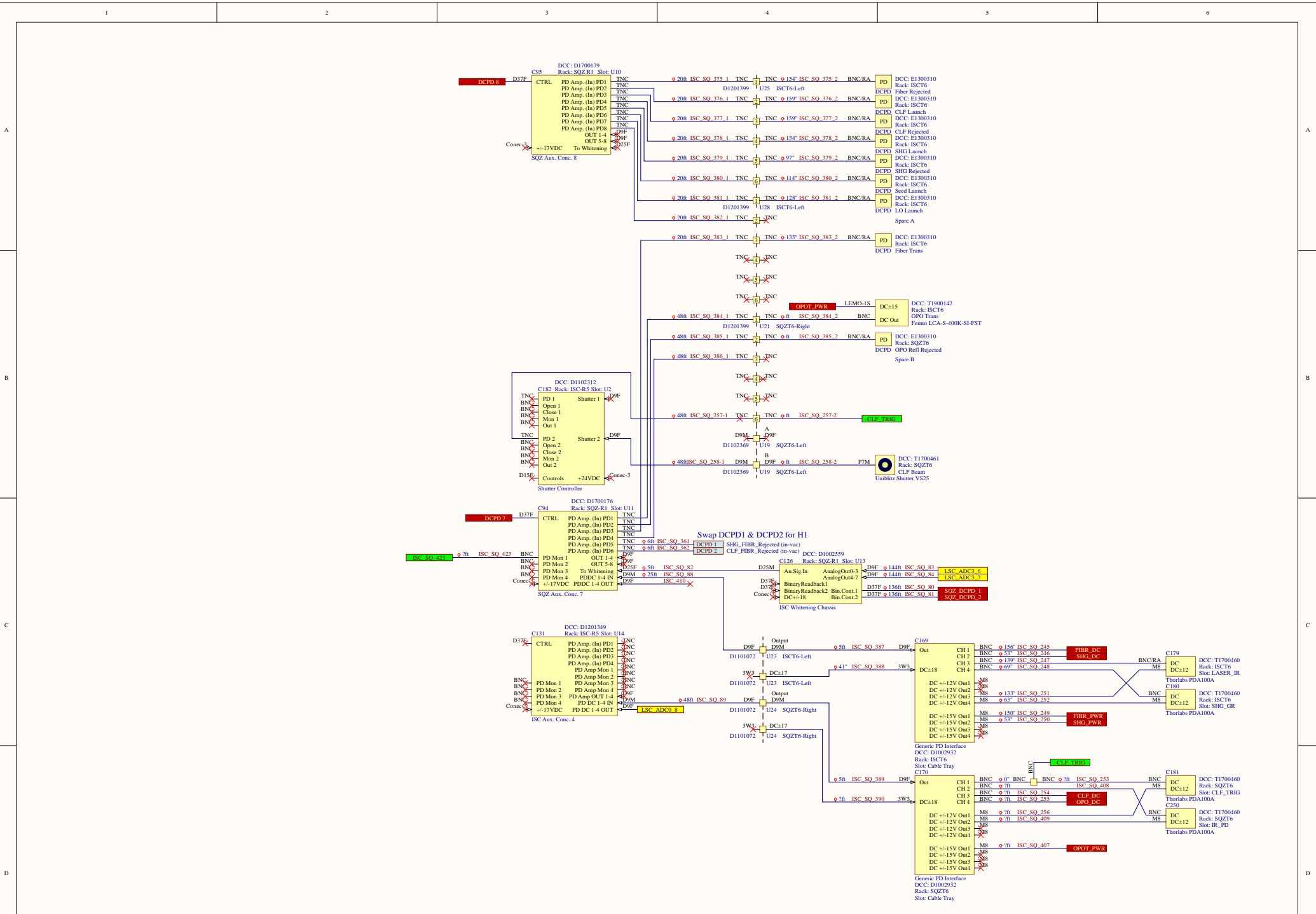
OFI Picomotor in HAM5: See D1800087

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

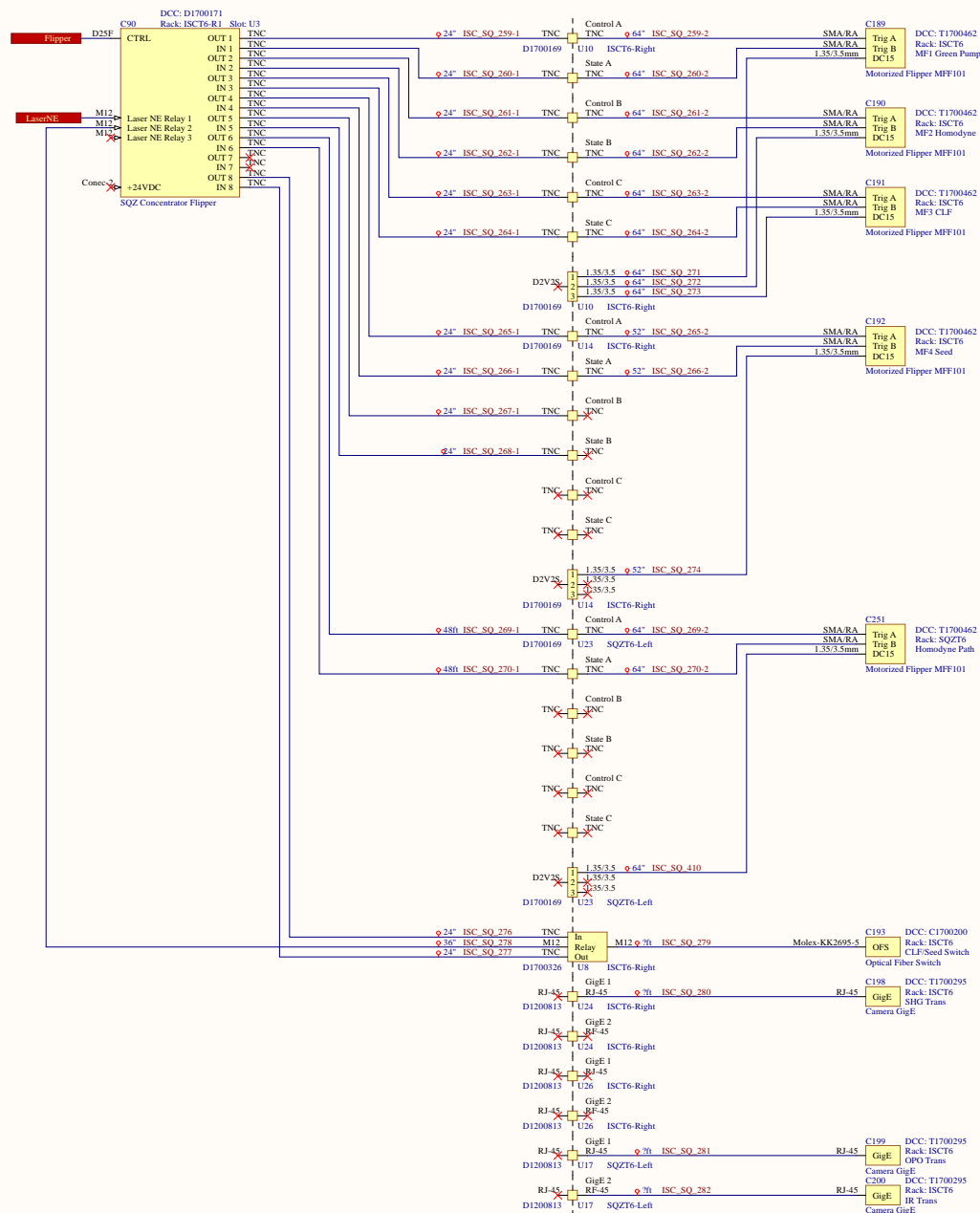
Last Edited: 8/19/2019	
Title Squeezer Tip-Tilt/OFI	LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology
Size: C	DCC Number: D1700384
SCH / PCB Revision: V9	Engineer: R. Abbott
Date: 8/19/2019 Time: 11:01:24 AM Sheet 7 of 11	

File: C:\Users\daniel.sigg\Documents\Protel\WiringPlan\Squeezer\SqueezerZm_SchDoc



Key

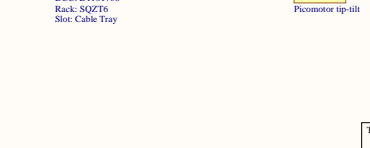
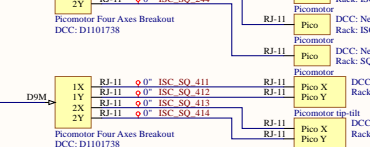
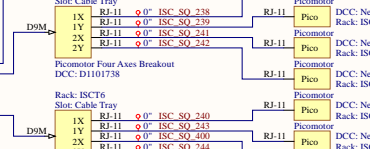
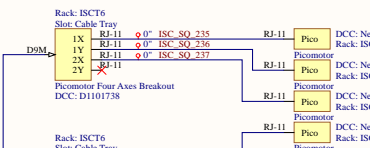
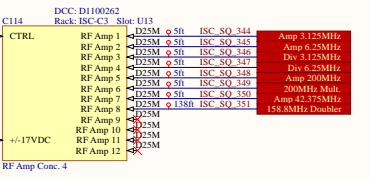
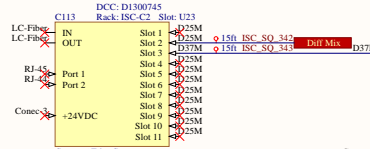
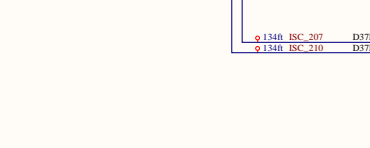
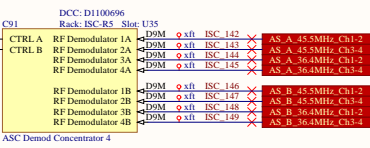
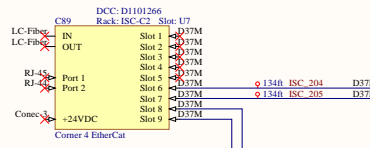
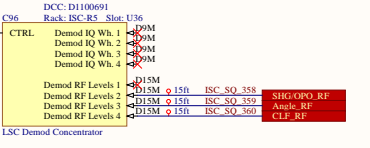
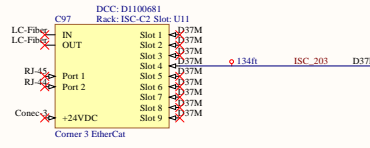
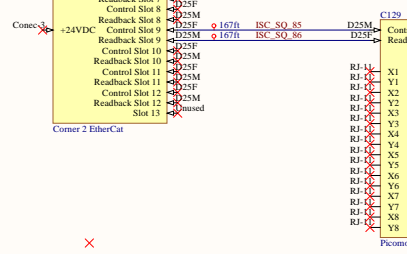
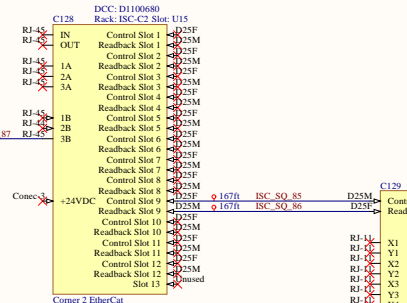
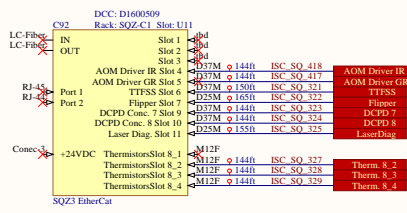
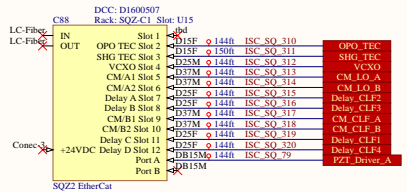
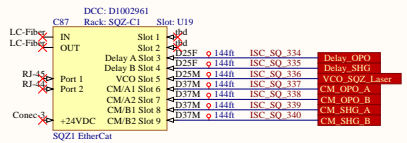
- Connects to Other Sheets
- Dot Identifies Cable Shield Terminating to Backshell
- △ Pin With Triangle Indicates Pin on Rear or the Like
- Pin With No Triangle Indicates Pin on Front or the Like
- Light Blue Symbols Are In Vacuum
- Yellow Symbols Are In Air



Title Squeezer Miscellaneous		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		LIGO	
Size: C	DCC Number: D1700384	SCH / PCB Revision: V9	Engineer: R. Abbott	Date: 8/19/2019	Time: 11:01:25 AM
File: C:\Users\daniel.sigg\Documents\Protel\WiringPlan\Squeezer\SqueezerMiscellaneous_SchDoc					

Last Edited: 8/19/2019

Sheet 9 of 11



Key

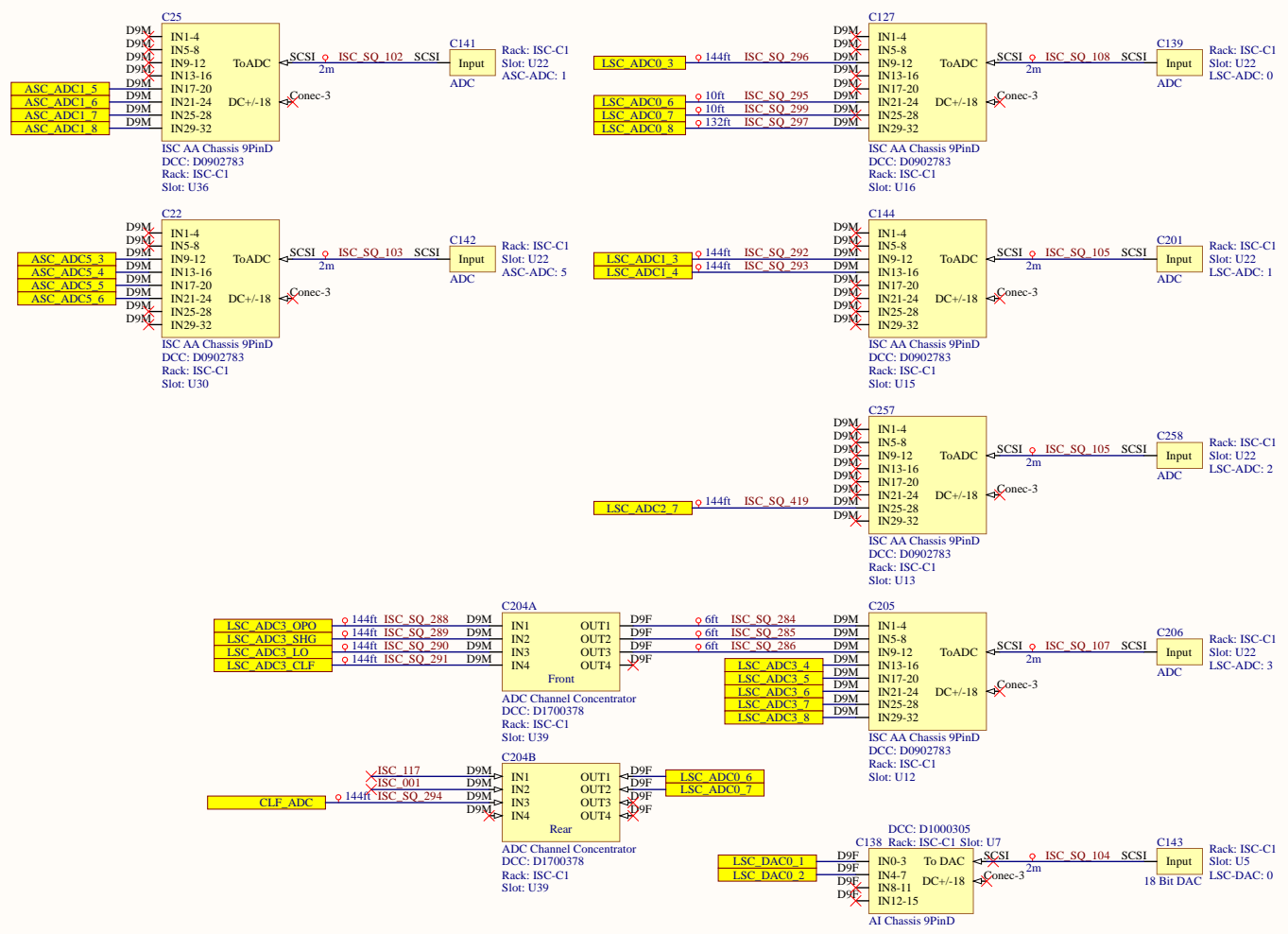
- Pin to Other Sheets
- Dot Identifies Cable Shield Terminating to Backshell
- Pin With Triangle Indicates Pin on Rear or the Lake
- Pin With No Triangle Indicates Pin on Front or the Lake
- Light Blue Symbols Are In Vacuum
- Yellow Symbols Are In Air

A

B

C

D



Last Edited: 8/19/2019

Title Squeezer ADC/DAC		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		LIGO	
Size: B	DCC Number: D1700384	Revision: V9	Engineer: R. Abbott	Date: 8/19/2019	Time: 11:01:25 AM

File: C:\Users\daniel.sigg\Documents\Prote\WiringPlan\Squeezer\SqueezerADC_DAC.SchDoc