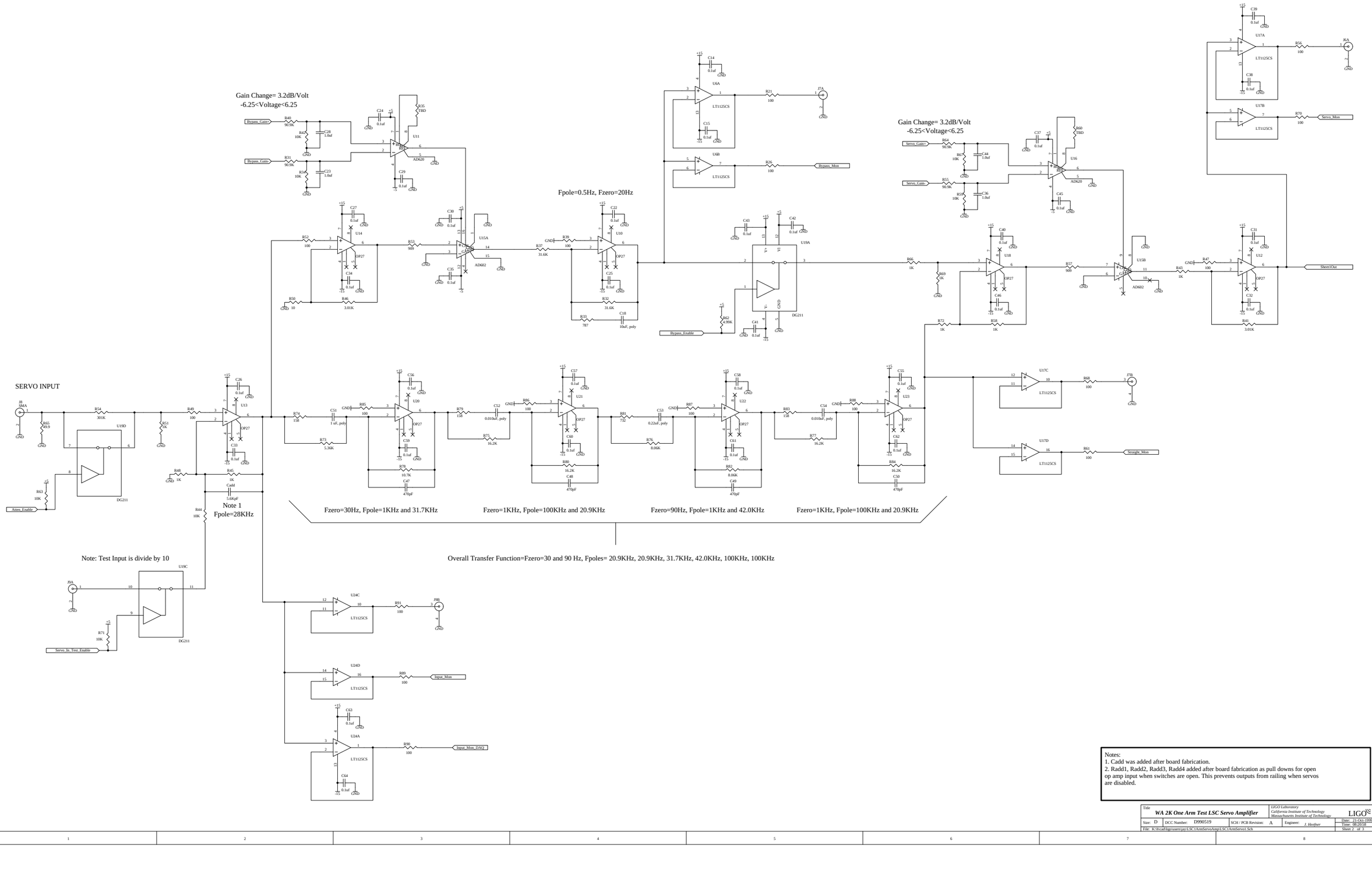
Gain Change= 3.2dB/Volt
-6.25<Voltage<6.25
Fpole=0.5Hz, Fzero=20Hz
Gain Change= 3.2dB/Volt
-6.25<Voltage<6.25
SERVO INPUT
Note 1
Fpole=28KHz
Note: Test Input is divide by 10
Fzero=30Hz, Fpole=1KHz and 31.7KHz
Fzero=1KHz, Fpole=100KHz and 20.9KHz
Fzero=90Hz, Fpole=1KHz and 42.0KHz
Fzero=1KHz, Fpole=100KHz and 20.9KHz
Overall Transfer Function=Fzero=30 and 90 Hz, Fpoles= 20.9KHz, 20.9KHz, 31.7KHz, 42.0KHz, 100KHz, 100KHz
Bypass_Gain
Atten_Enable
Servo_In_Test_Enable
Bypass_Enable
Servo_Gain
Input_Mon
Input_Mon_DAQ
Bypass_Mon
Servo_Mon
Straight_Mon
SheetIOut
LT1125CS
OP27
AD620
AD602
DG211
Notes:
1. Cadd was added after board fabrication.
2. Radd1, Radd2, Radd3, Radd4 added after board fabrication as pull downs for open op amp input when switches are open. This prevents outputs from railing when servos are disabled.
Title
WA 2K One Arm Test LSC Servo Amplifier
LIGO Laboratory
California Institute of Technology
Massachusetts Institute of Technology
LIGO
Size: D
DCC Number: D990519
SCH / PCB Revision: A
Engineer: J. Heefner
Date: 21-Oct-1999
Time: 08:20:58
File: JC:\Ericad\ligo\users\jay\LSC1ArmServoAmp\LSC1ArmServo1.Sch
Sheet 2 of 3

Sheet1Out

Servo_X_Enable

Servo_X_Invert

Servo_X_Test_Enable

External_X_Enable

Servo_Y_Enable

Servo_Y_Invert

Servo_Y_Test_Enable

External_Y_Enable

Note 2

Note 2

Note 2

Note 2

X Arm Output

Y Arm Output

Output_X_Mon

Output_X_DAQ

Output_Y_DAQ

Output_Y_Mon

Note: Jumper installed to continuously enable output

Input_Mon	1A
Bypass_Mon	2A
Straight_Mon	3A
Servo_Mon	4A
Output_X_Mon	5A
Output_Y_Mon	6A
Bypass_Gain	17A
Servo_Gain	18A
Servo_Int_Test_Enable	24A
Aztec_Enable	25A
Bypass_Enable	26A
Servo_X_Test_Enable	27A
Servo_X_Invert	28A
Servo_X_Enable	29A
Servo_Y_Test_Enable	30A
Servo_Y_Invert	31A
Servo_Y_Enable	32A

Input_Mon_DAQ	1A
Output_X_DAQ	4A
Output_Y_DAQ	5A

Title	WA 2K One Arm Test LSC Servo Amplifier
Size: D	DCC Number: D990519
SCH / PCB Revision:	A
Engineer:	J. Heefner
File:	K:\ligcad\lig\users\jay\LSC1ArmServoAmp\LSC1ArmServo2.Sch
Date:	21-DEC-1999
Time:	08:21:06
Sheet	3 of 3

LIGO Laboratory
California Institute of Technology
Massachusetts Institute of Technology

LSC1ArmServo1
LSC1ArmServo1.Sch

- Bypass_Gain-
- Bypass_Gain+
- Bypass_Enable
- Servo_Gain-
- Servo_Gain+
- Servo_Mon
- Straight_Mon
- Bypass_Mon
- Input_Mon
- Atten_Enable
- Sheet1Out

LSC1ArmServo2
LSC1ArmServo2.Sch

- Servo_X_Invert
- Servo_X_Test_Enable
- Output_X_Mon
- Servo_X_Enable
- External_X_Enable
- Sheet1Out
- Servo_Y_Invert
- Servo_Y_Test_Enable
- Output_Y_Mon
- Servo_Y_Enable
- External_Y_Enable

Title: ***WA 2K One Arm Test LSC Servo Amplifier***		*LIGO Laboratory* *California Institute of Technology* *Massachusetts Institute of Technology*	LIGO
Size: B	DCC Number: D990519	SCH / PCB Revision: A	Engineer: *J. Heefner*
File: K:\h\cad\ligo\users\jay\LSC1ArmServoAmp\LSC1ArmServo.prj			Date: 21-Oct-1999 Time: 08:20:52 Sheet 1 of 3