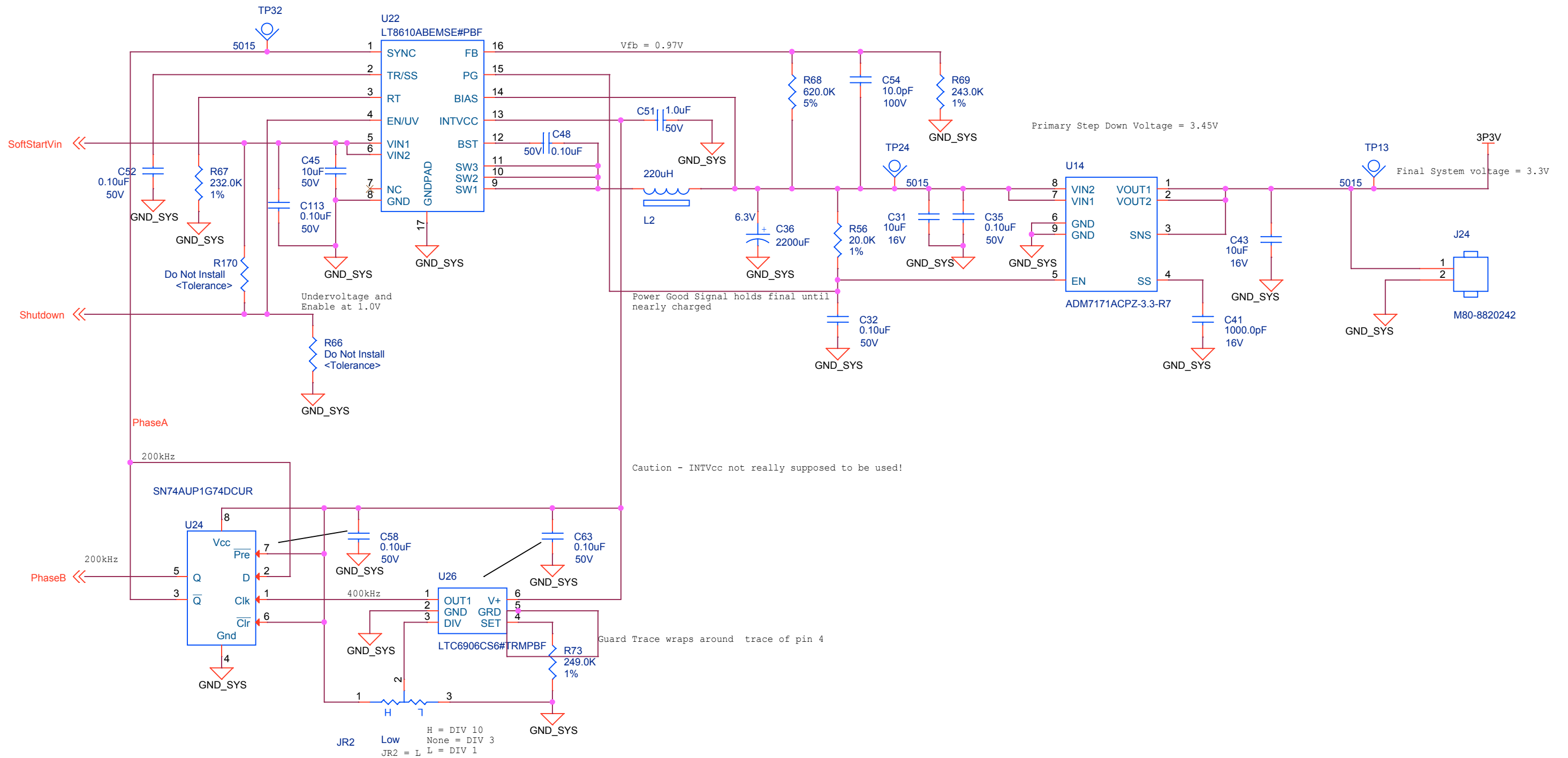
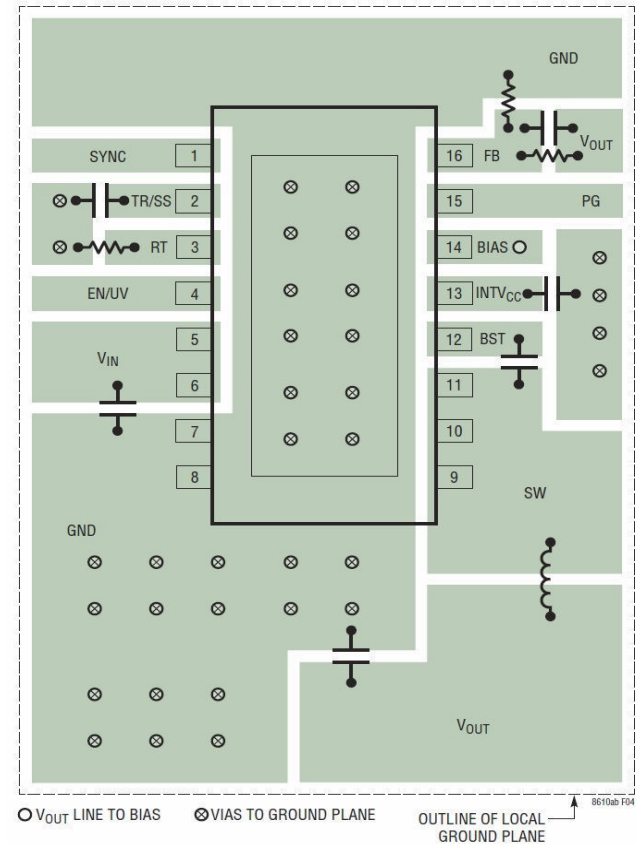
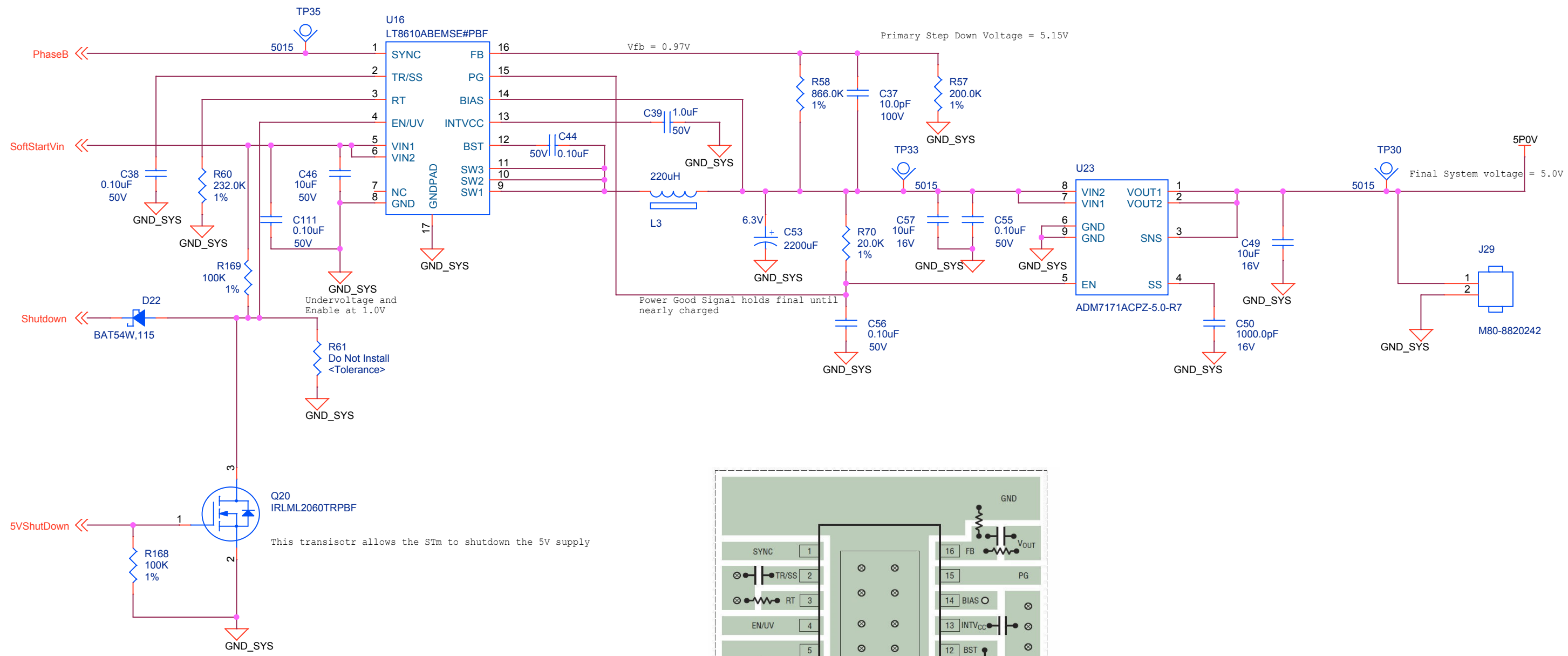








MONTEREY BAY AQUARIUM RESEARCH INSTITUTE

7700 SANDHOLDT ROAD

MOSS LANDING, CA 95039

(831) 775-1700 [www.mbari.org](http://www.mbari.org)

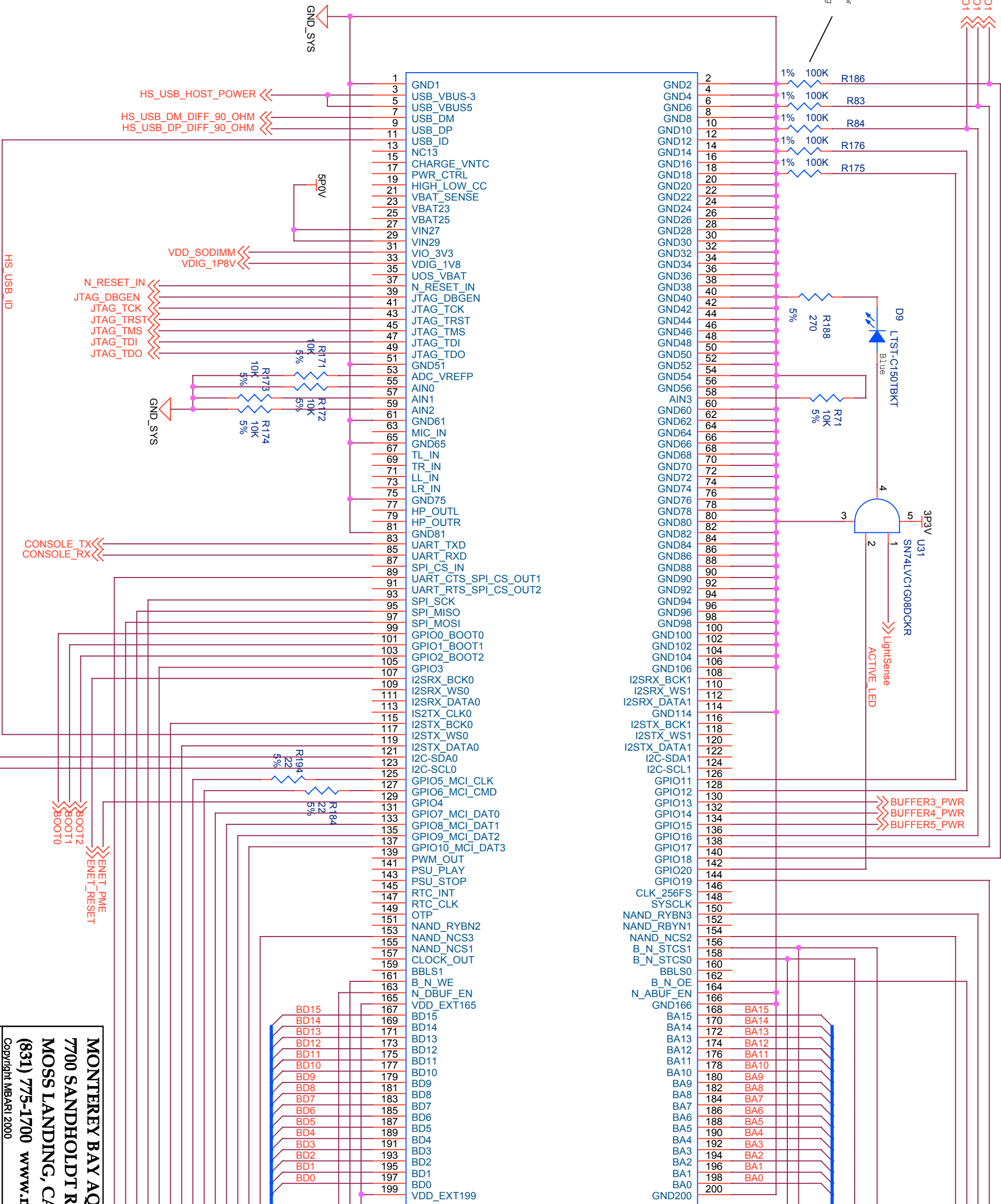
Copyright MBARI 2000



|           |          |                                       |  |              |              |
|-----------|----------|---------------------------------------|--|--------------|--------------|
| Title     |          | ESP G3 Host Gateway 5.0V Power supply |  | Number <Doc> |              |
| Size<br>B | Engineer | SJensen                               |  | Path /       | Filename     |
|           | Date:    | Thursday, April 06, 2017              |  | Sheet        | 3 of 28      |
|           |          |                                       |  |              | Rev<br>1.0.0 |

Required to pull Low  
so that OS knows  
that it is operating  
with this board

BUFFER8\_GPIO1  
BUFFER7\_GPIO1  
BUFFER6\_GPIO1



HS\_USB\_HOST\_POWER  
HS\_USB\_DM\_DIFF\_90\_OHM  
HS\_USB\_DP\_DIFF\_90\_OHM

N\_RESET\_IN  
JTAG\_DBGGEN  
JTAG\_TCK  
JTAG\_TRST  
JTAG\_TMS  
JTAG\_TDI  
JTAG\_TDO

VDD\_SODIMM  
VDIG\_1P8V

CONSOLE\_TX  
CONSOLE\_RX

BOOT0  
BOOT1  
BOOT2  
ENET\_RESET  
ENET\_PME

HS\_USB\_ID

CoresCK  
CoresDA

MONTEREY BAY AQUARIUM RESEARCH INSTITUTE

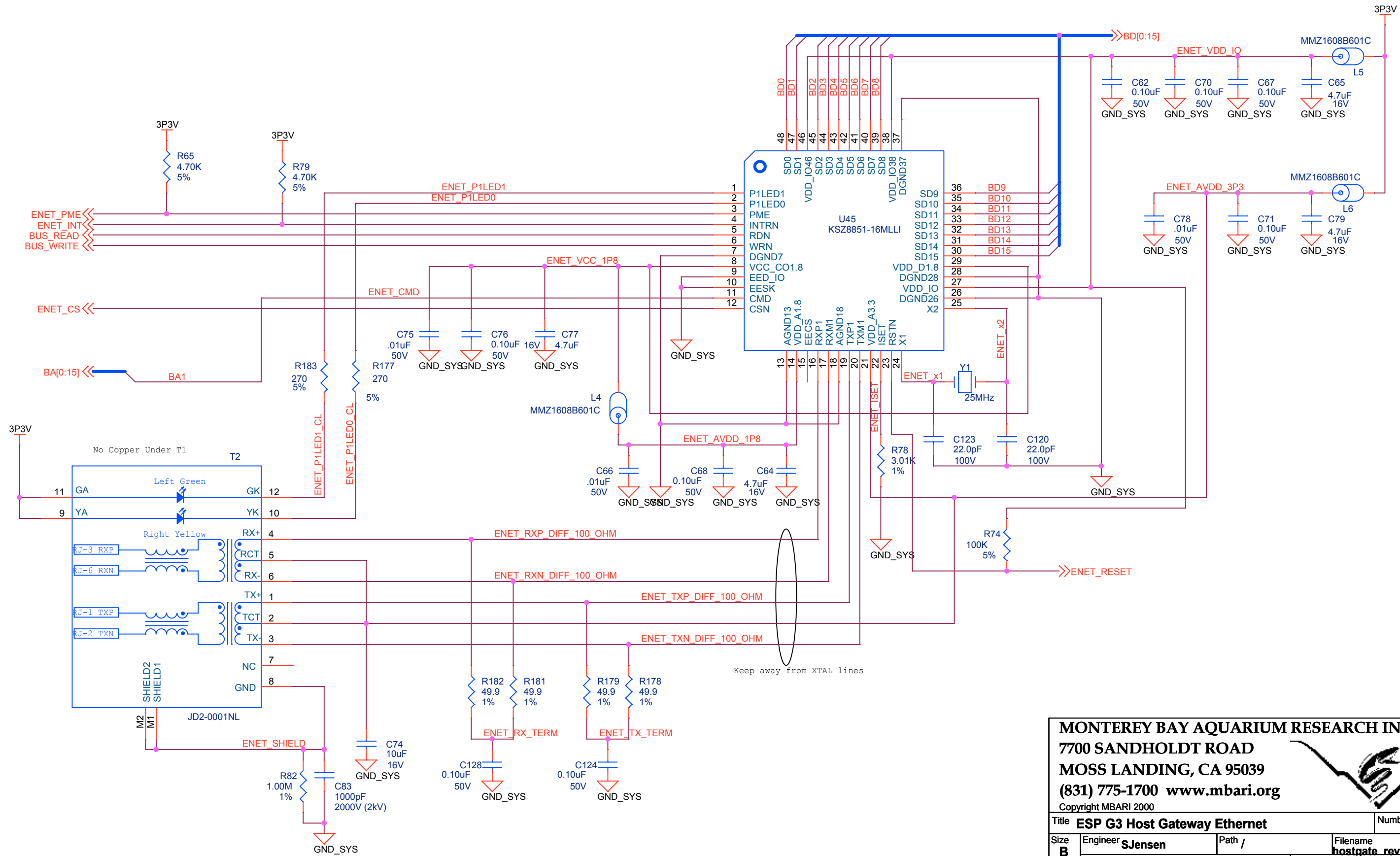
7700 SANDHOLDT ROAD

MOSS LANDING, CA 95039

(831) 775-1700 [www.mbari.org](http://www.mbari.org)



|       |                          |                                    |                    |              |  |
|-------|--------------------------|------------------------------------|--------------------|--------------|--|
| Title |                          | ESP G3 Host Gateway LPC3141 Socket |                    | Number <Doc> |  |
| Size  | Engineer                 | Path /                             | Filename           | Rev          |  |
| B     | Sjensen                  |                                    | hostgate_rev_1.apl | 1.0.0        |  |
| Date: | Thursday, April 06, 2017 | Sheet                              | 4 of 28            |              |  |



MONTEREY BAY AQUARIUM RESEARCH INSTITUTE

7700 SANDHOLDT ROAD

MOSS LANDING, CA 95039

(831) 775-1700 [www.mbari.org](http://www.mbari.org)

Copyright MBARI 2000

Title

ESP G3 Host Gateway Ethernet

Number

<Doc>

Size

B

Engineer

SJensen

Path

/

Filename

hostgate\_rev\_1.opj

Rev

1.0.0

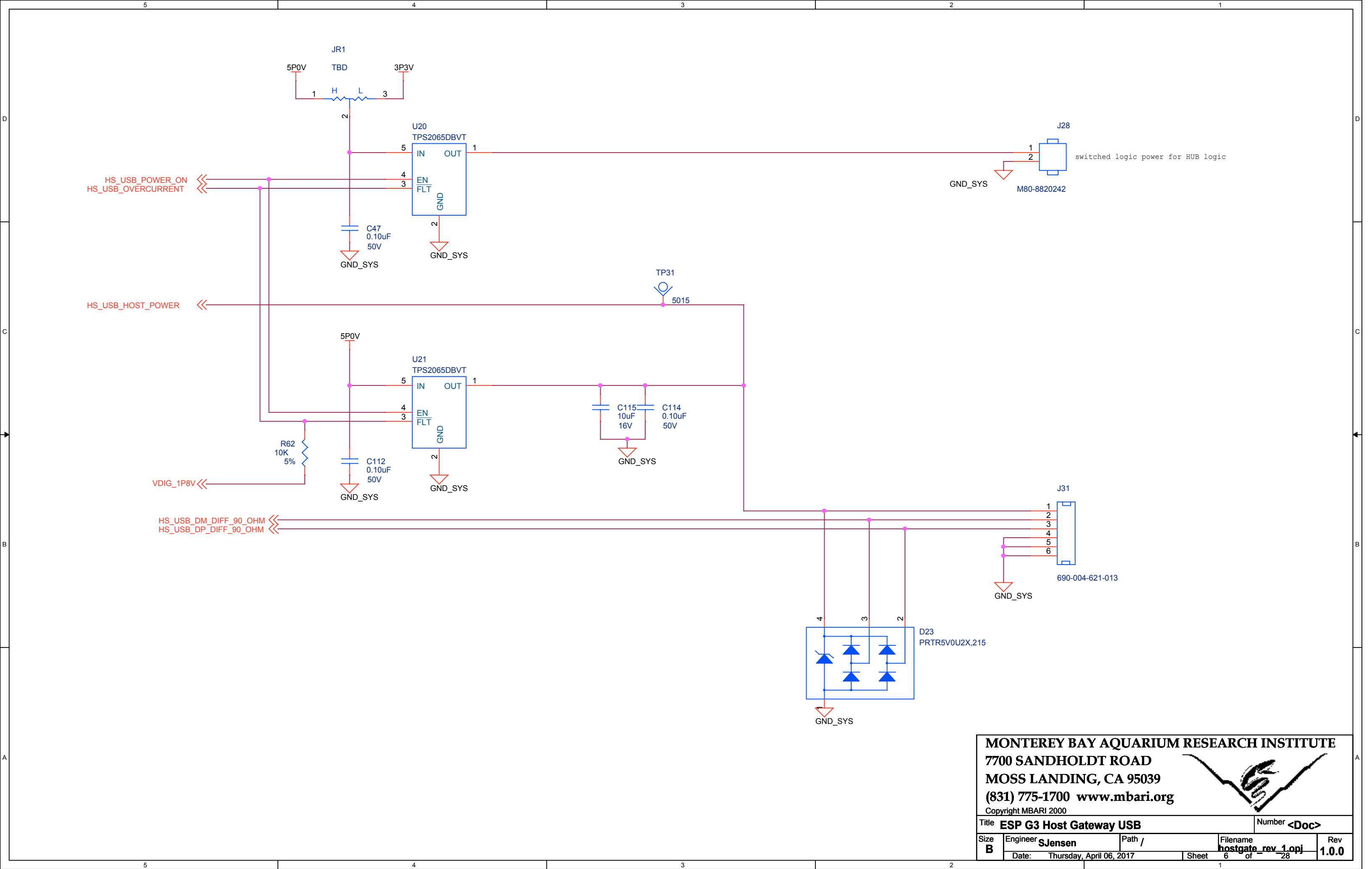
Date

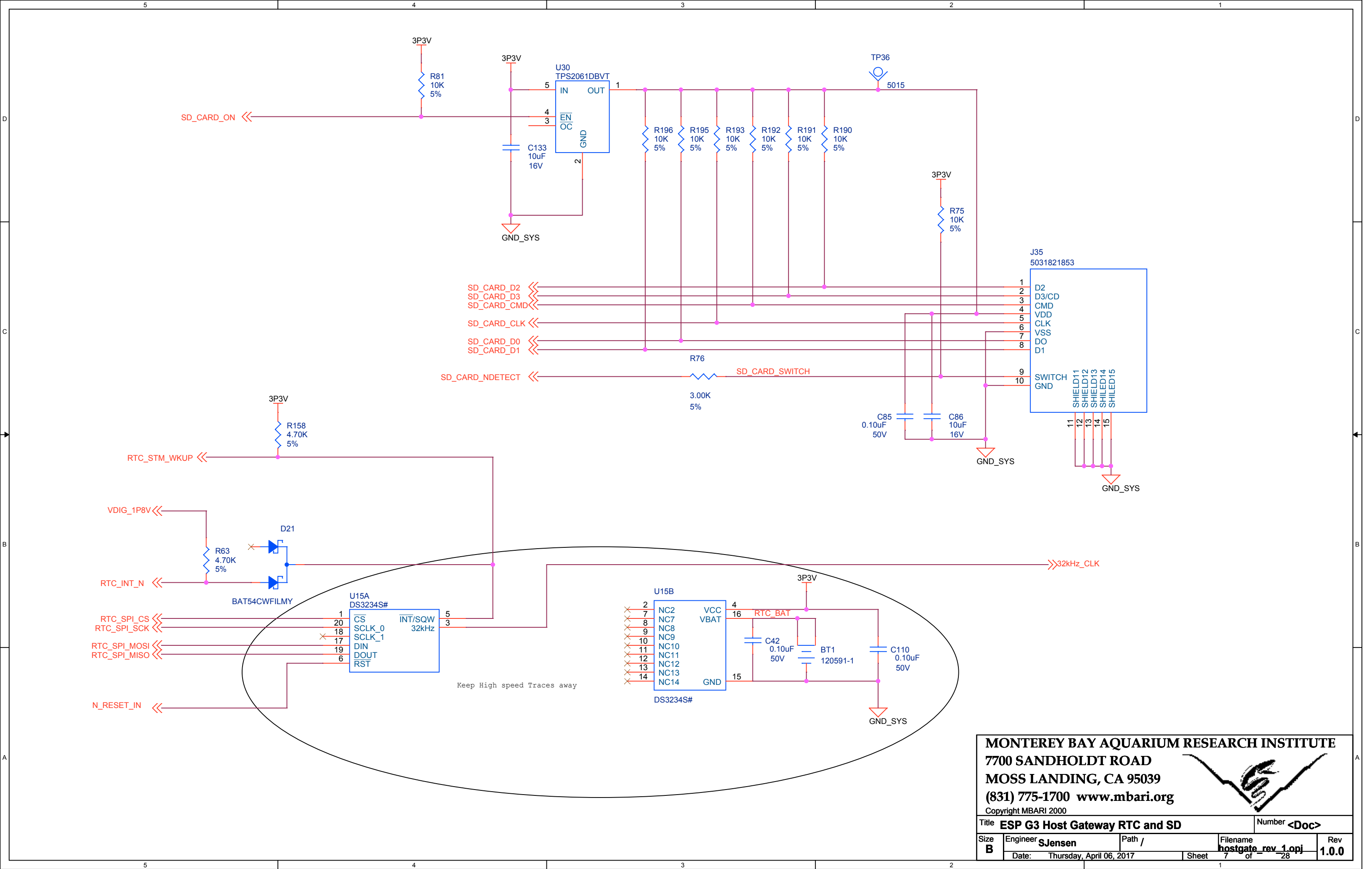
Thursday, April 06, 2017

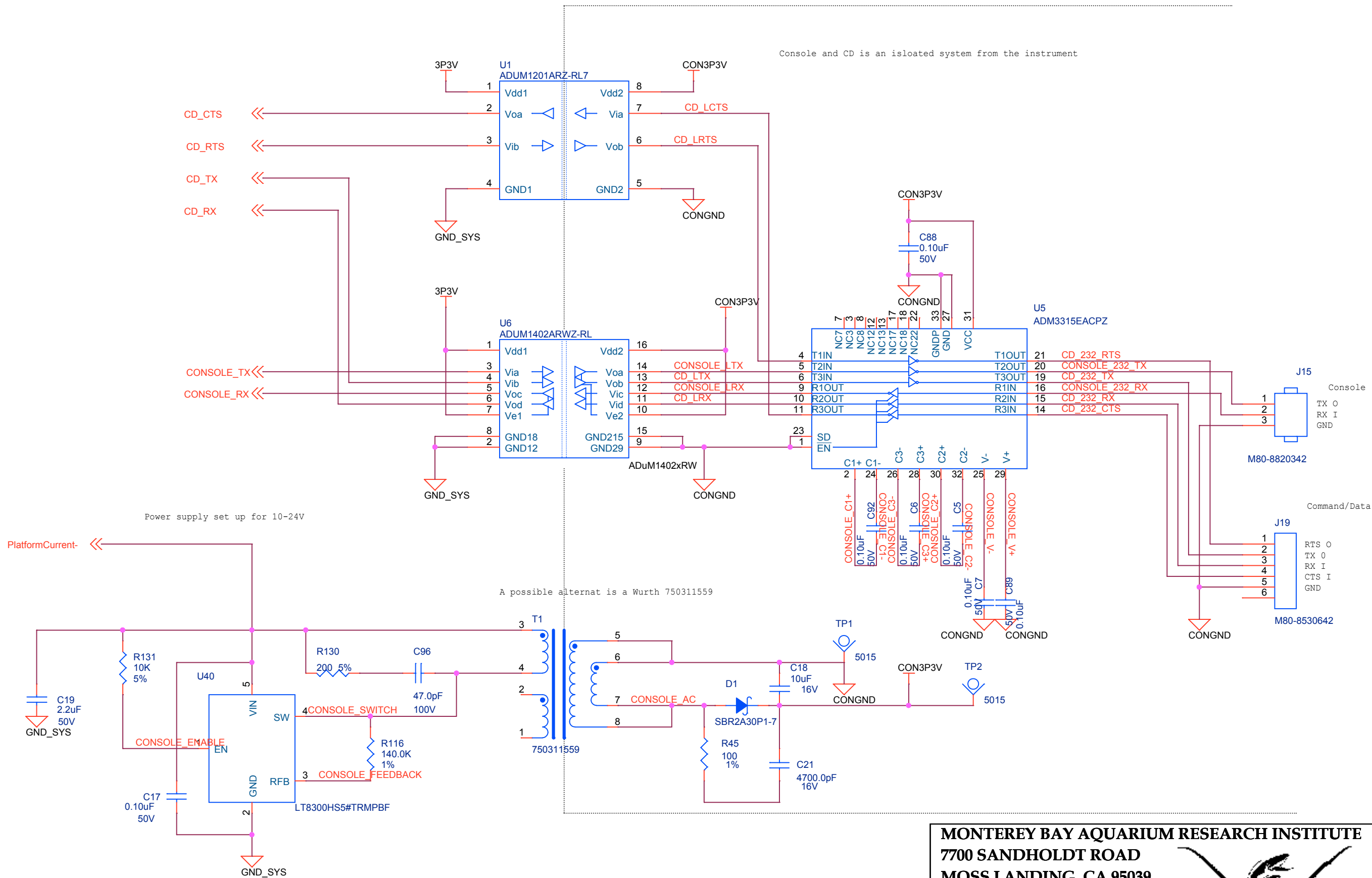
Sheet

5 of 28

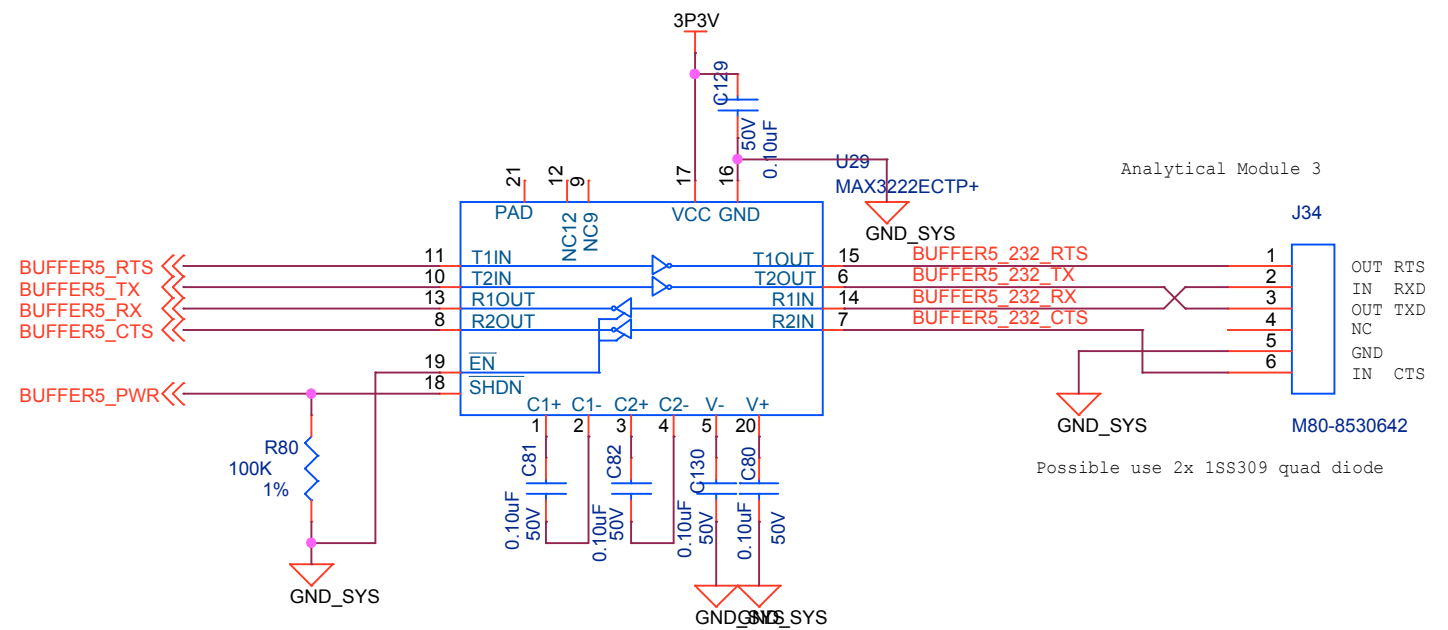
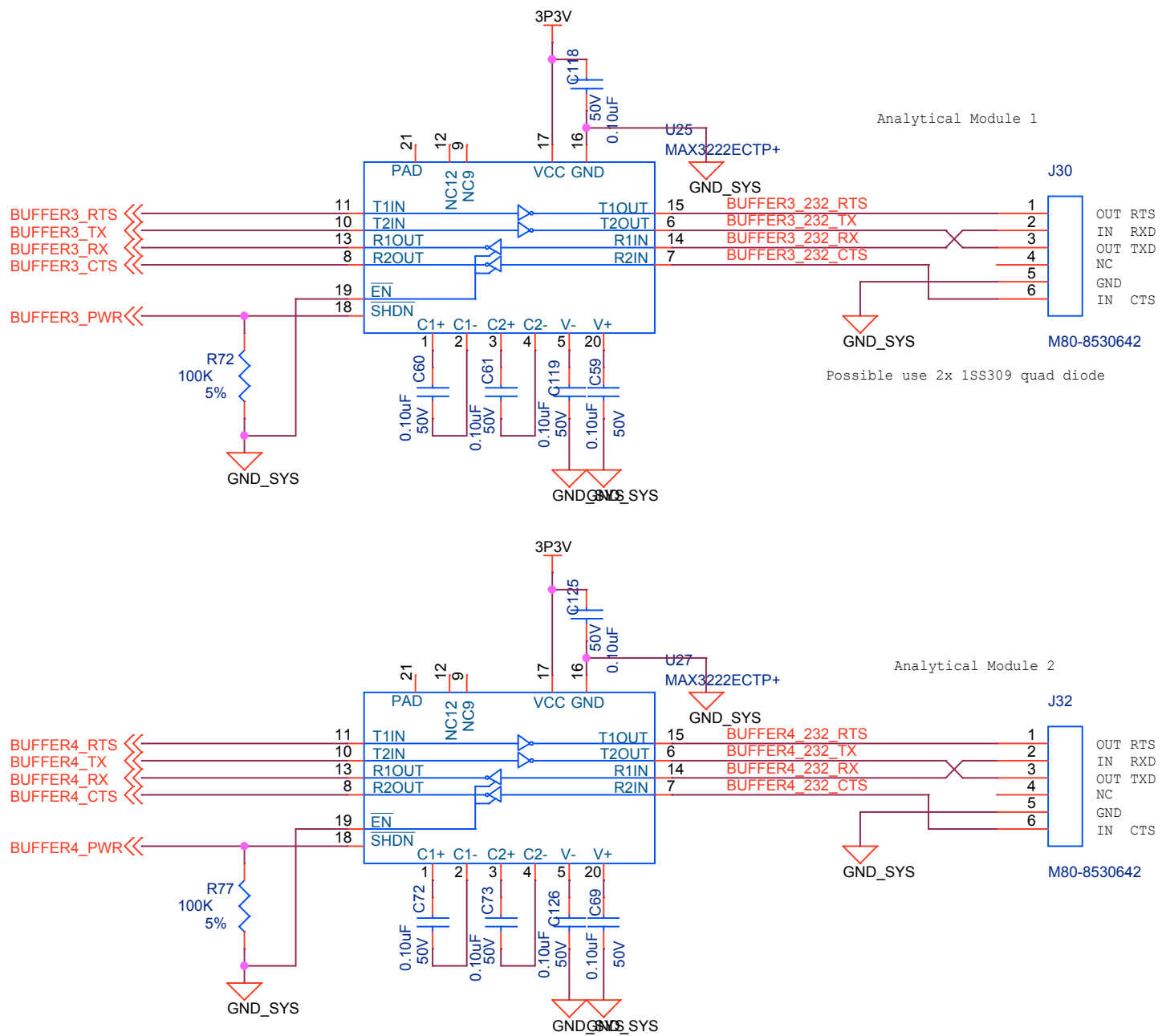
Keep away from XTAL lines

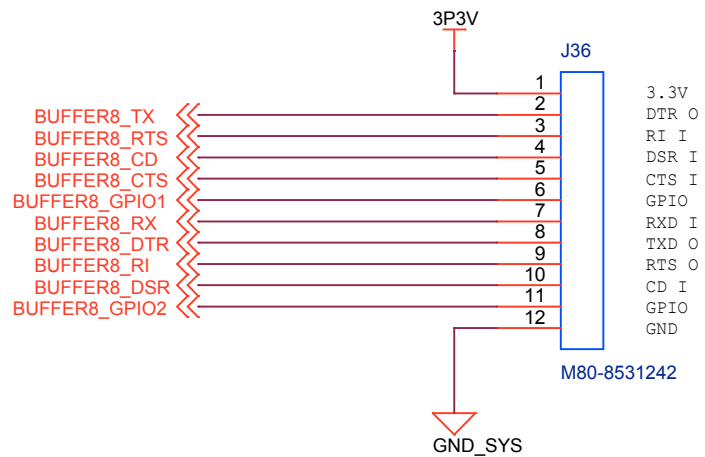
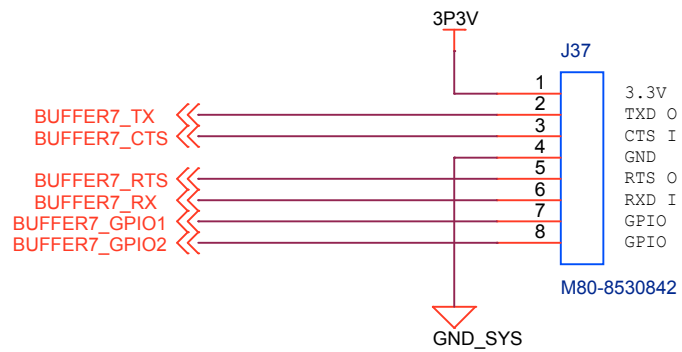
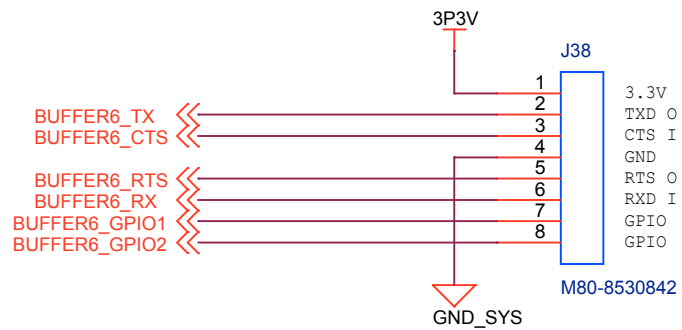


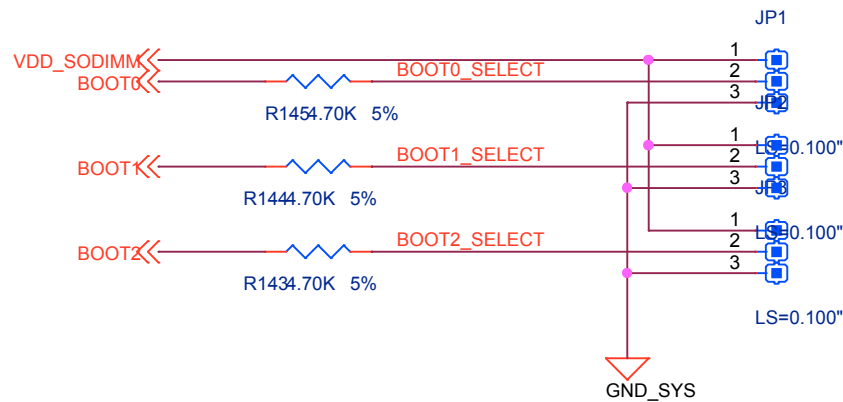
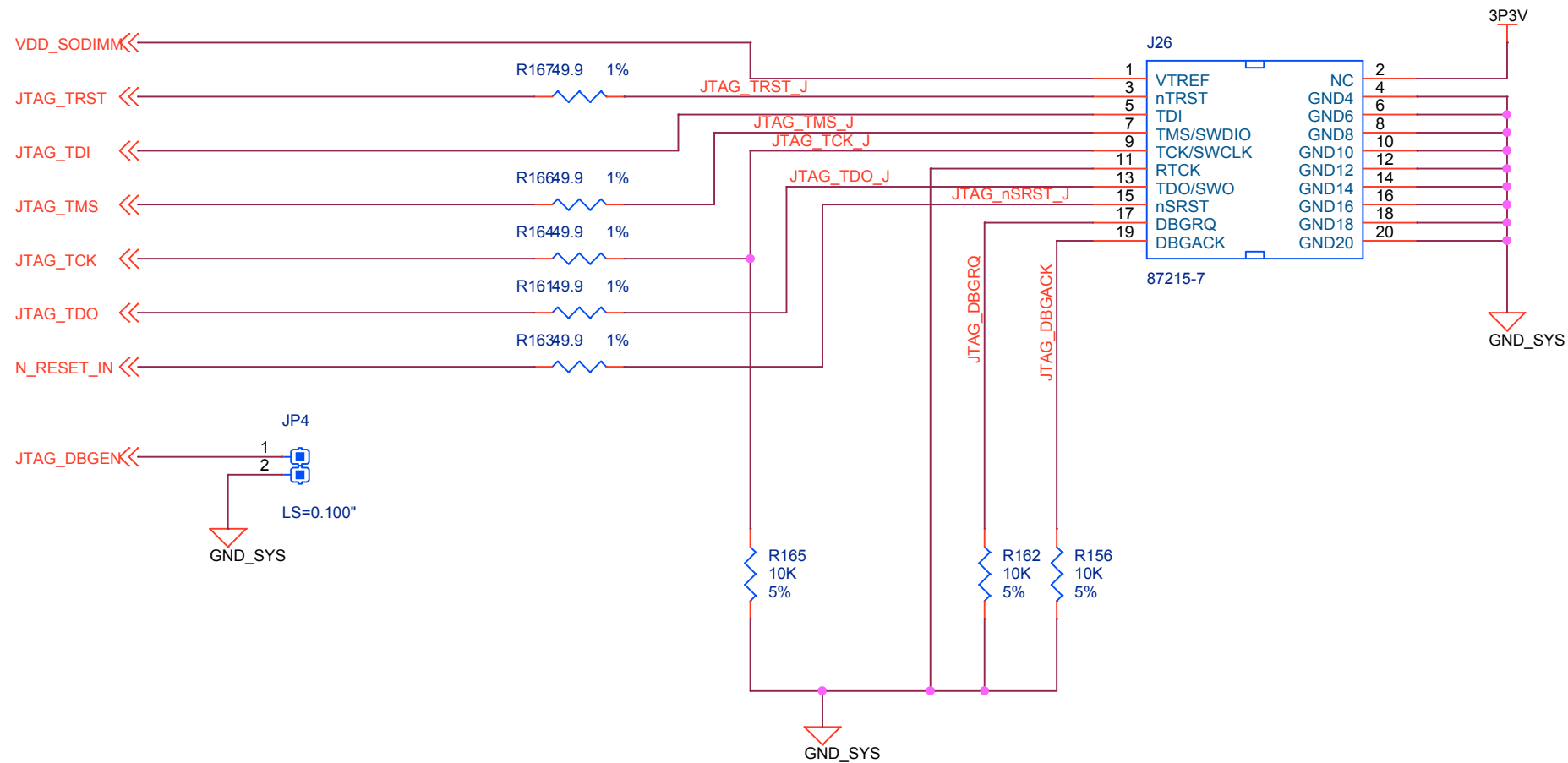




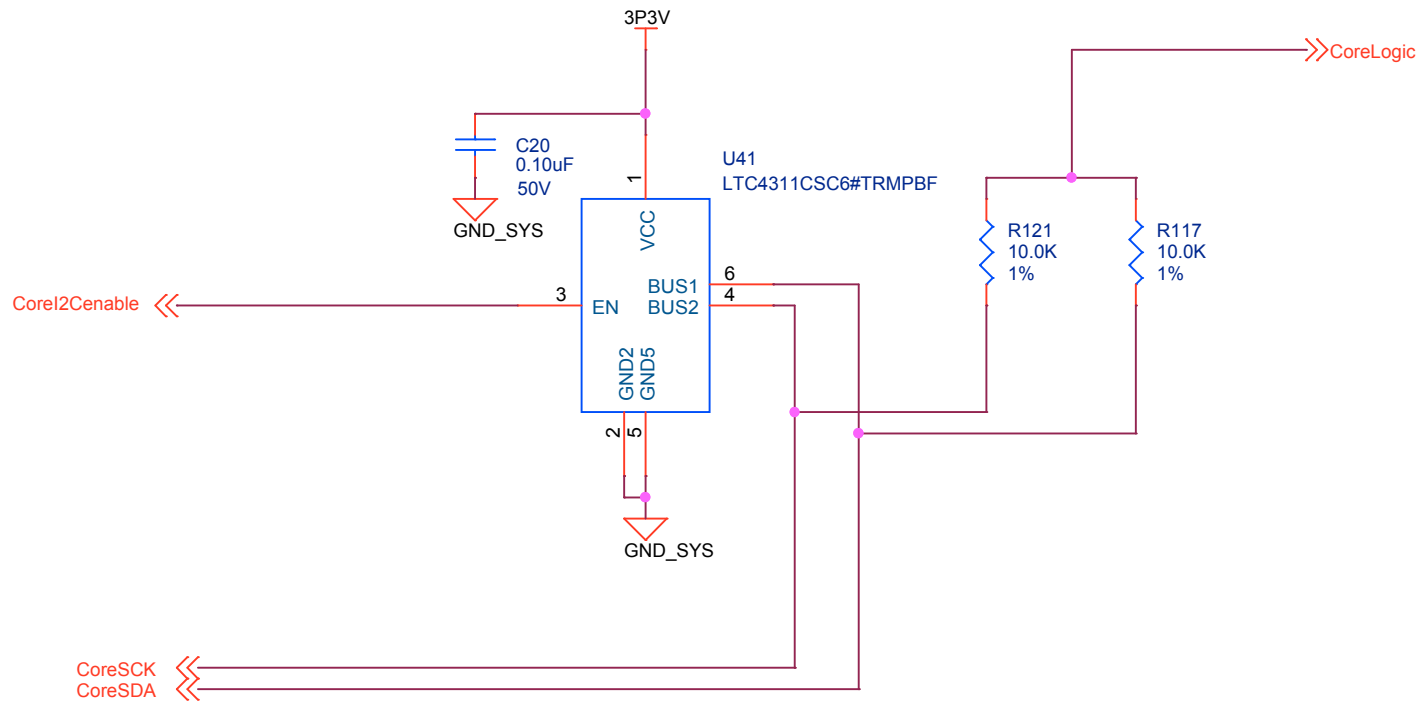
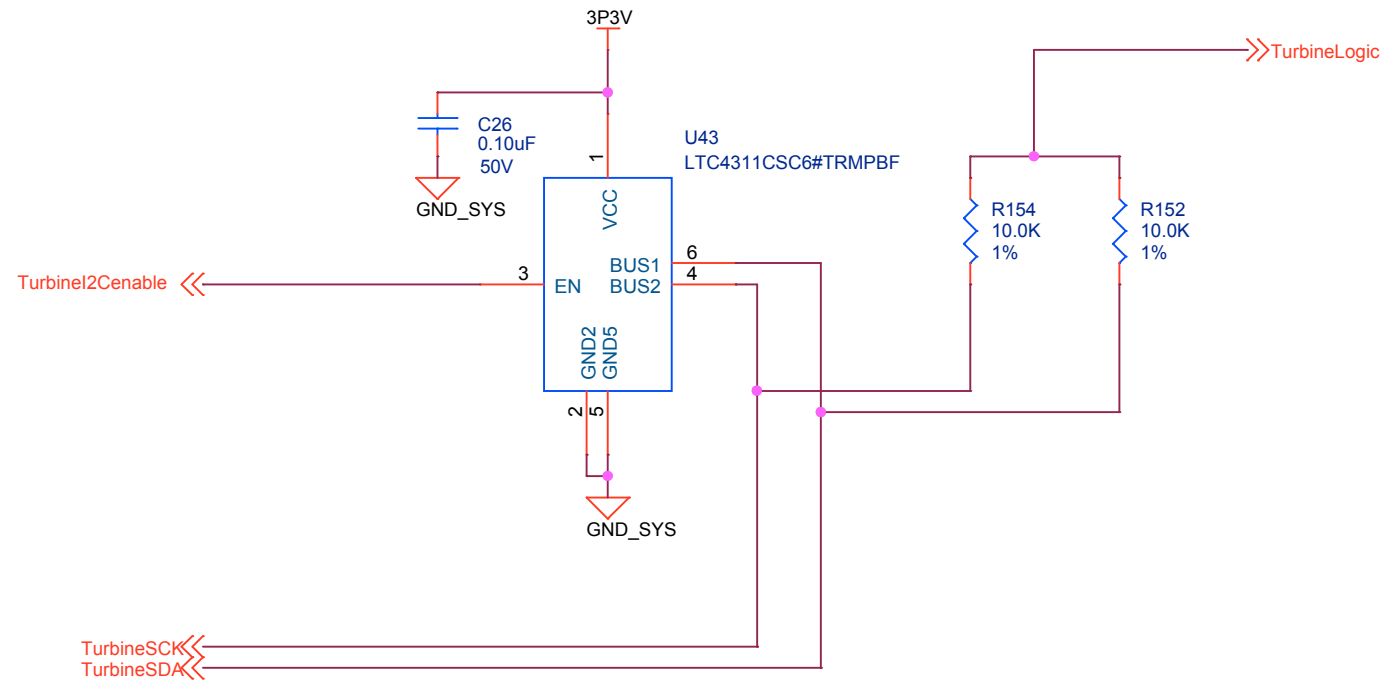


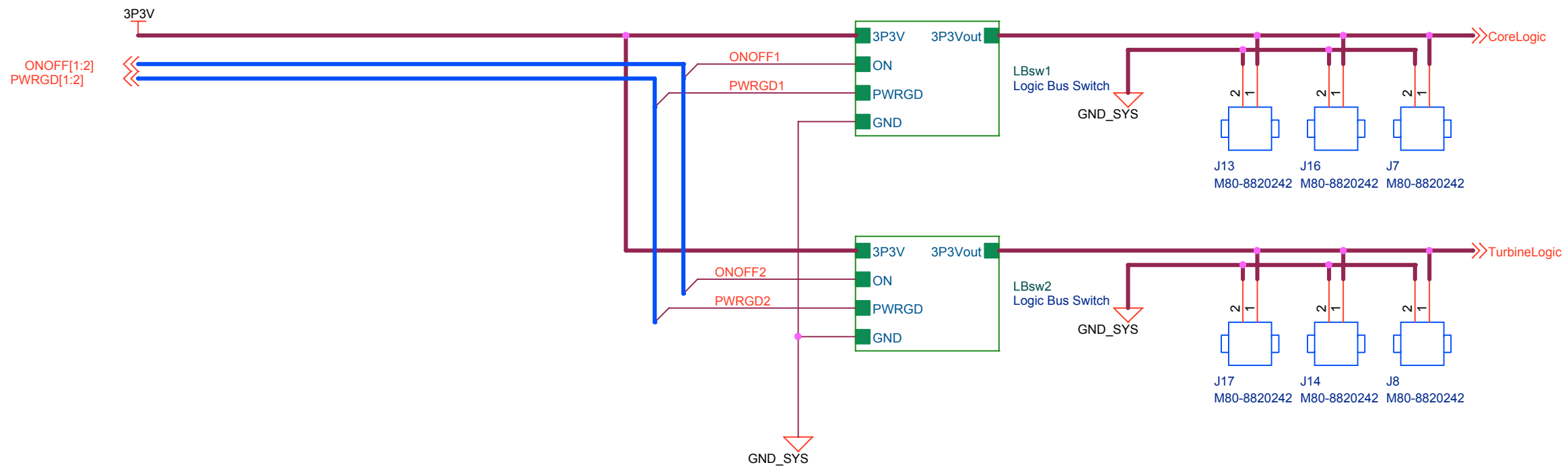




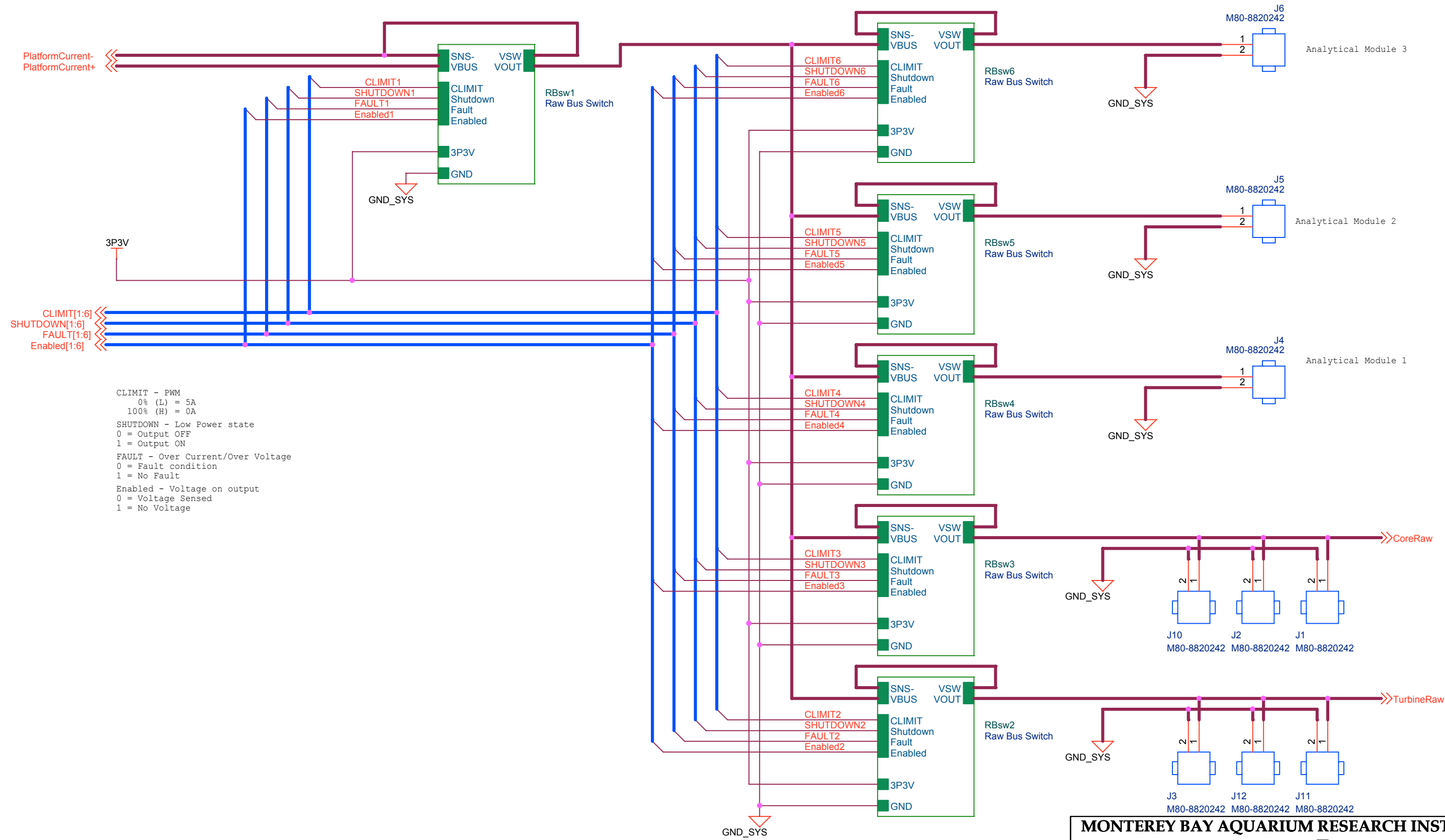








|                                                                                                                                                                                             |                               |  |                |  |                                                                                       |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--|----------------|--|---------------------------------------------------------------------------------------|--------------|
| <b>MONTEREY BAY AQUARIUM RESEARCH INSTITUTE</b><br>7700 SANDHOLDT ROAD<br>MOSS LANDING, CA 95039<br>(831) 775-1700 <a href="http://www.mbari.org">www.mbari.org</a><br>Copyright MBARI 2000 |                               |  |                |  |  |              |
| Title <b>ESP G3 Host Gateway 3.3V Distribution</b>                                                                                                                                          |                               |  |                |  | Number <Doc>                                                                          |              |
| Size<br><b>B</b>                                                                                                                                                                            | Engineer <b>SJensen</b>       |  | Path /         |  | Filename                                                                              | Rev          |
|                                                                                                                                                                                             | Date: Tuesday, April 04, 2017 |  | Sheet 15 of 28 |  | <b>hostgate_rev_1.opj</b>                                                             | <b>1.0.0</b> |



MONTEREY BAY AQUARIUM RESEARCH INSTITUTE

7700 SANDHOLDT ROAD

MOSS LANDING, CA 95039

(831) 775-1700 [www.mbari.org](http://www.mbari.org)

Copyright MBARI 2000



|           |          |                                              |  |                    |          |
|-----------|----------|----------------------------------------------|--|--------------------|----------|
| Title     |          | ESP G3 Host Gateway Raw Voltage Distribution |  | Number <Doc>       |          |
| Size<br>B | Engineer | SJensen                                      |  | Path               | /        |
|           | Date:    | Tuesday, April 04, 2017                      |  | Sheet              | 16 of 28 |
| Filename  |          |                                              |  | hostgate_rev_1.opj |          |
| Rev       |          |                                              |  | 1.0.0              |          |

