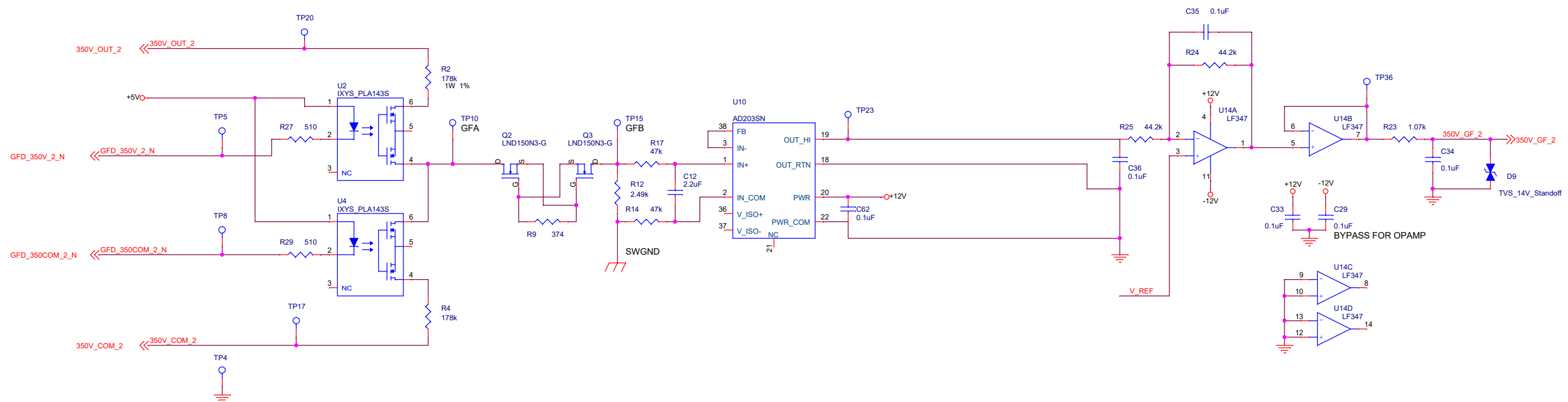
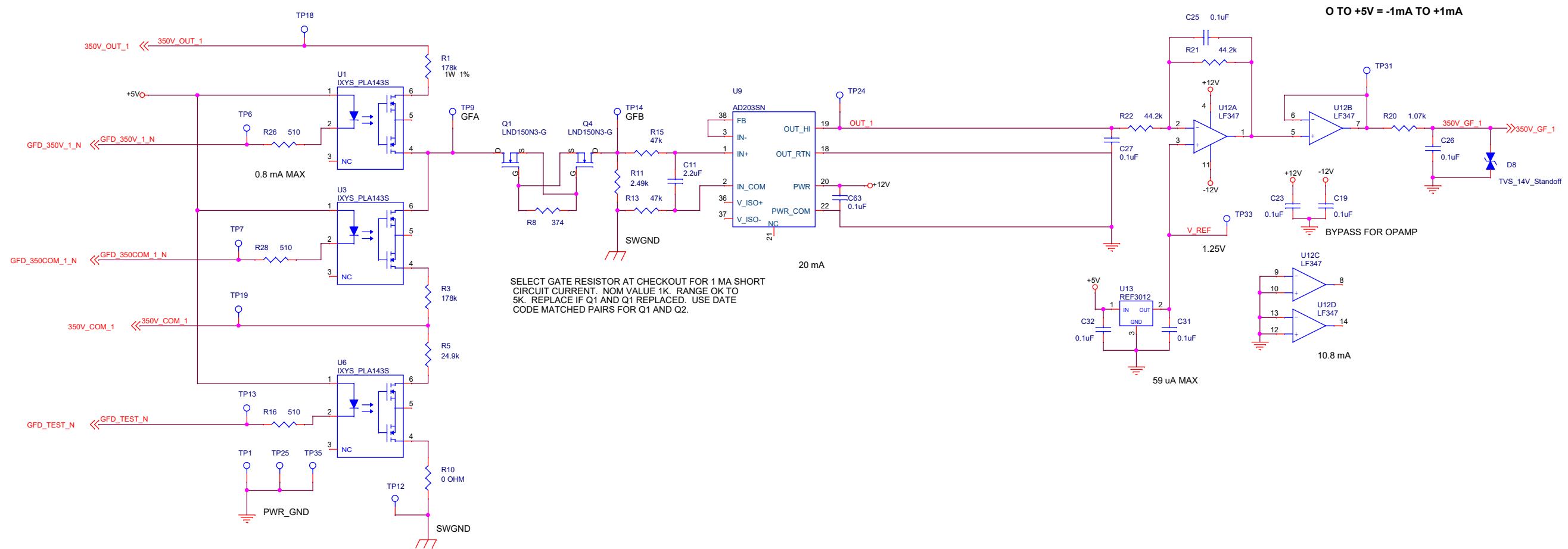
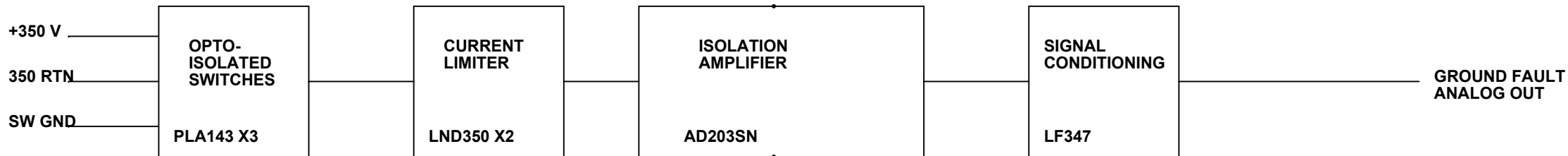




|                    |                             |       |   |          |
|--------------------|-----------------------------|-------|---|----------|
|                    |                             |       |   |          |
| Title              |                             |       |   |          |
| <b>XBM 350V GF</b> |                             |       |   |          |
| Size               | Document Number             |       |   | Rev      |
| <b>C</b>           | <b>100221305</b>            |       |   | <b>A</b> |
| Date:              | Tuesday, September 29, 2020 | Sheet | 1 | of 6     |

GF SENSING 2X



1.5 kV AMP ISOLATION



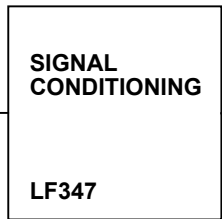
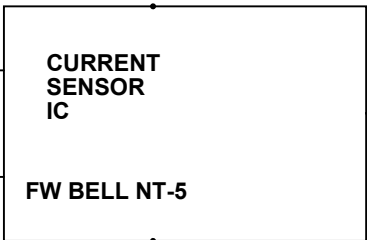
4 kV OPTO ISOLATION

CURRENT MONITOR 7X

4X 350 V  
3X 48V

V+  
INPUT

V+  
TO LOAD



CURRENT SENSE  
ANALOG OUT

3.5 kV SENSOR ISOLATION

CONNECTORS:

350 V AMP 282843-8 600 V RATED HT: 0.600"

48 V AMP 282834-6 150 V RATED HT: 0.393"

SIGNALS C-GRID 100 RIGHT ANGLE

SPECIFICATIONS:

- Input of 2X 350 VDC channels
- On board sensing of:
  - GF sensing on 2 350VDC channels
  - Output each GF Voltate
  - Current sense of 4 350VDC channels
  - Output of 4 trip signals
  - Current Sense of 3 48VDC channels
  - Output of 3 trip signals

TO LOW VOLTAGE  
SIDE OF COMPONENTS

DC POWER IN

+5V

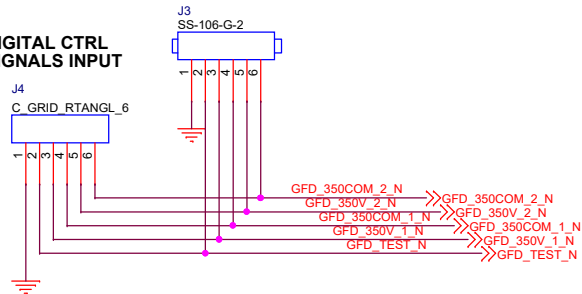
+12V

-12V

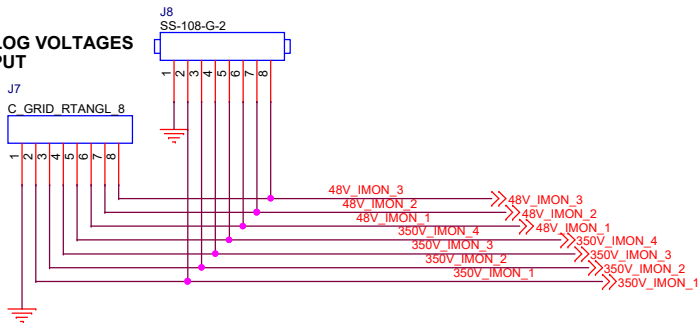
GROUND

|                                              |                            |              |
|----------------------------------------------|----------------------------|--------------|
| Title                                        |                            |              |
| MARS MINI-NODE GND FAULT AND CURRENT SENSING |                            |              |
| Size                                         | Document Number            | Rev          |
| B                                            | 100221305                  | A            |
| Date:                                        | Tuesday, December 11, 2018 | Sheet 1 of 1 |

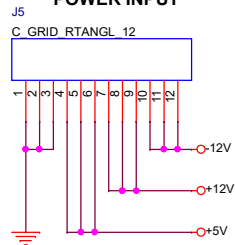
DIGITAL CTRL  
SIGNALS INPUT



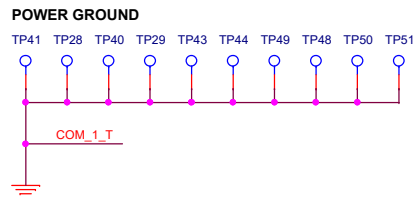
ANALOG VOLTAGES  
OUTPUT



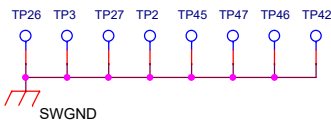
+5V +12v -12V  
POWER INPUT



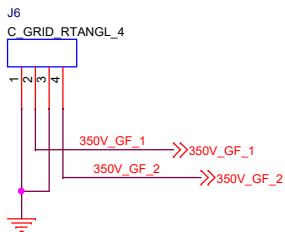
POWER GROUND



SEAWATER GROUND



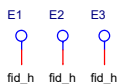
GF OUTPUTS



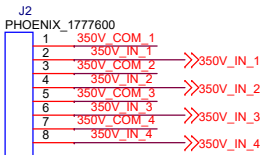
No. 6 MOUNTING HOLES



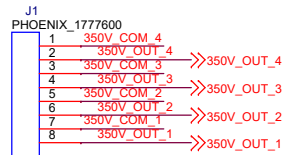
FIDUCIALS FOR PICK AND PLACE



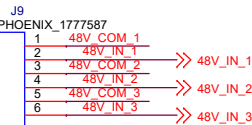
350V IN



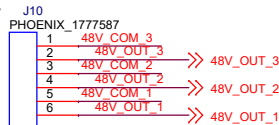
350V OUT



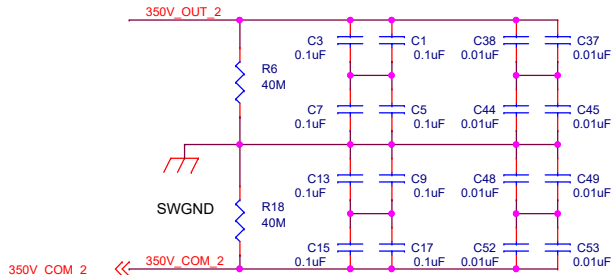
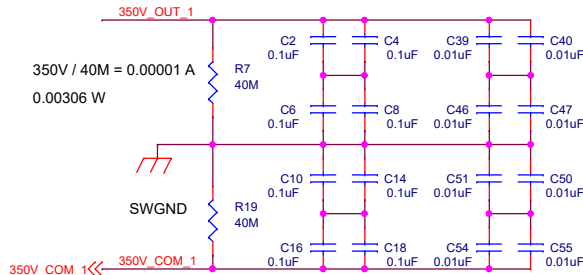
48V IN



48V OUT



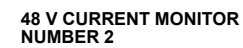
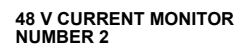
GROUND REFERENCE



|                           |                           |              |
|---------------------------|---------------------------|--------------|
| Title                     |                           |              |
| CONNECTORS AND GROUND REF |                           |              |
| Size                      | Document Number           | Rev          |
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+12V supply 16.7mA  
-12V supply 4.4 mA



|                         |                            |  |       |        |
|-------------------------|----------------------------|--|-------|--------|
|                         |                            |  |       |        |
| Title                   |                            |  |       |        |
| IMON 4X 350V AND 3X 48V |                            |  |       |        |
| Size                    | Document Number            |  |       | Rev    |
| C                       | 100221305                  |  |       | A      |
| Date:                   | Tuesday, December 11, 2018 |  | Sheet | 5 of 6 |