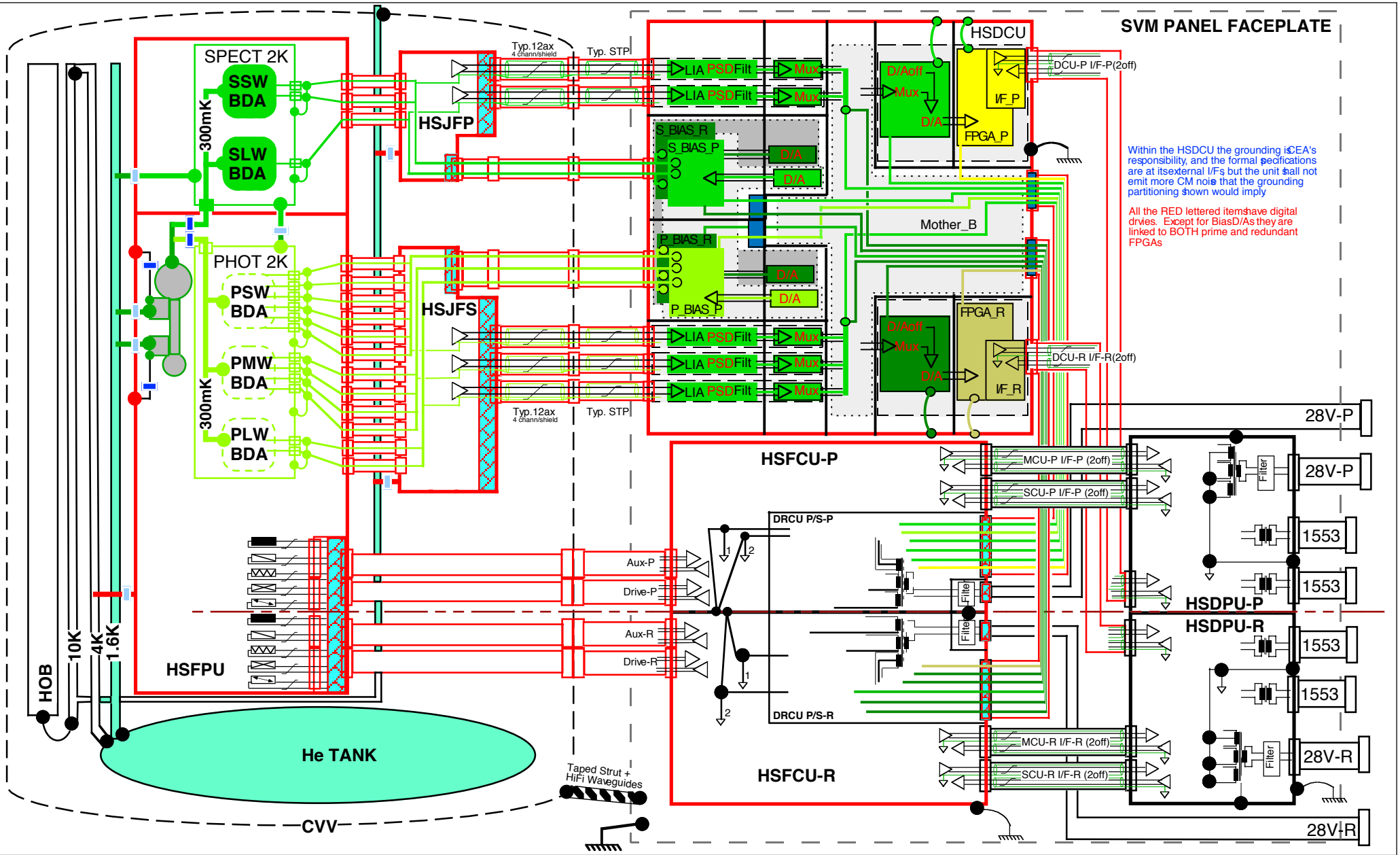

HERSCHEL SPIRE GROUNDING SCHEME

JD 16th September 2002

Bolometer analogue chassis links omitted pending Review

RF shielded cable joined to connector backshells both ends and so closing FaradayCage

Join

Sapphire Break

Other Break

Secondary ground or ground plane

To S/C chassis

Cristek etc. R.F Filter Connectors, sealed to walls of Faradaycages

Transformer coupled I/F, no signal ground line.

Differential Transmitter, no signal ground line.

Differential Receiver, no signal ground line.

Power Transformer with Electrostatic Screen

Resistance

Winding (e.g. Motor)

Relay coil

Heater

Sensor

Temperature Sensor

Cal/Stim.