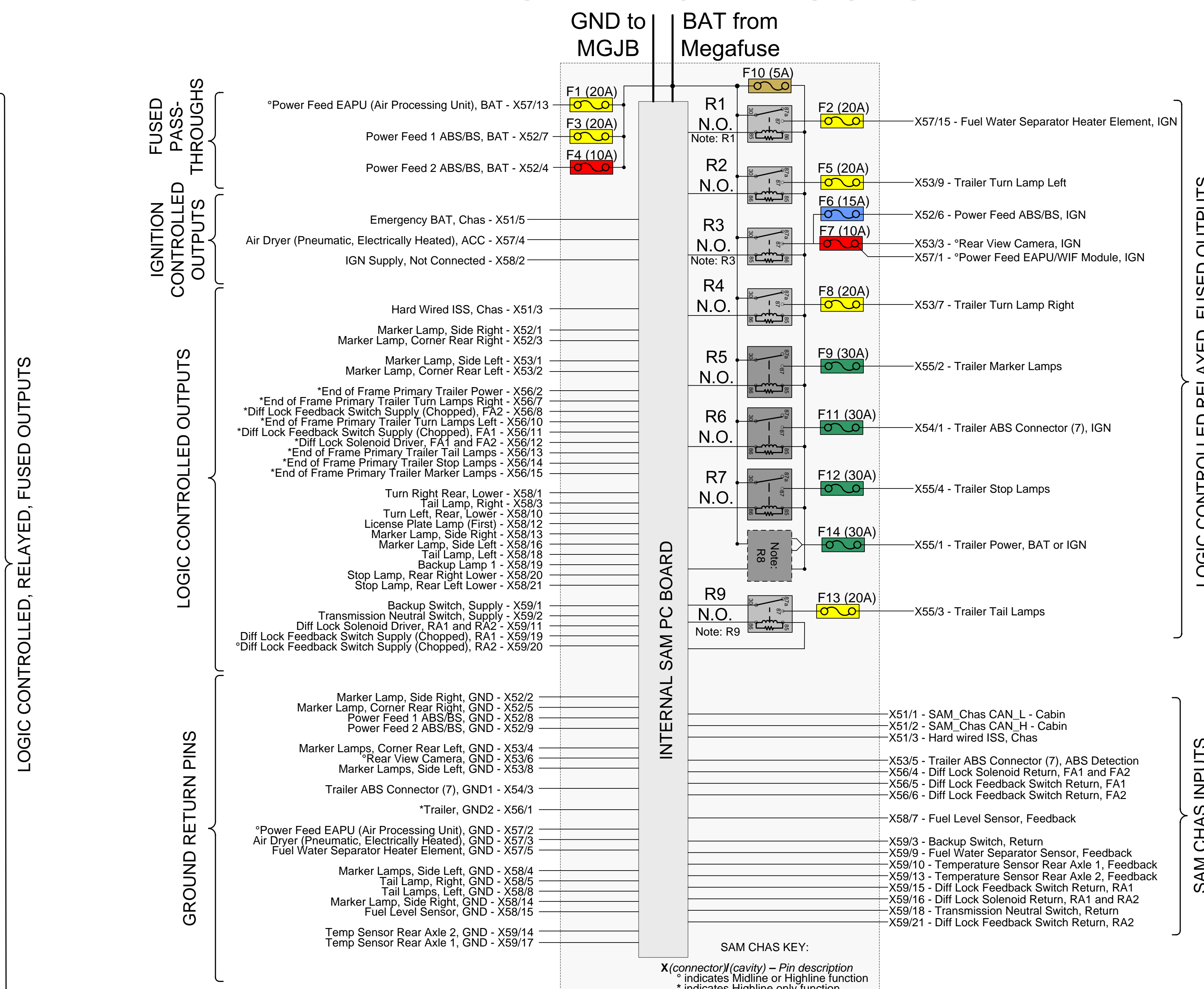
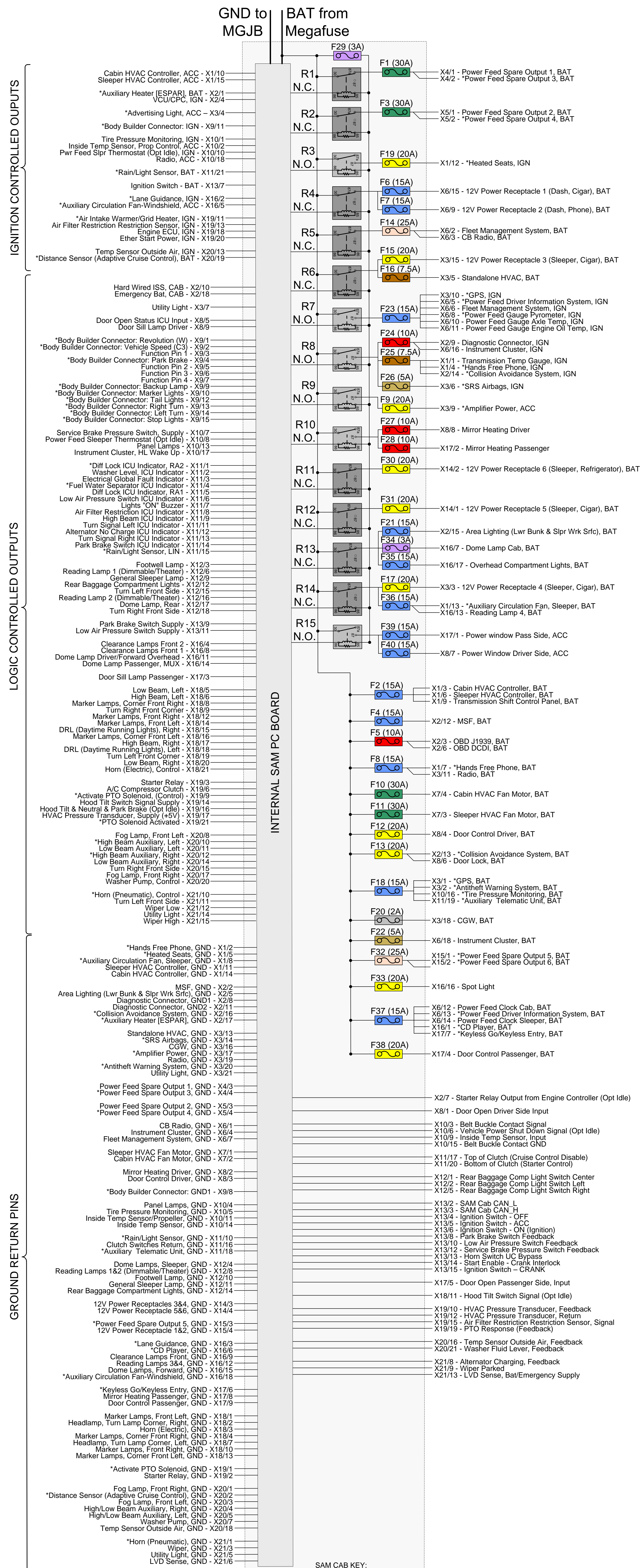




# SAM PIN LAYOUT

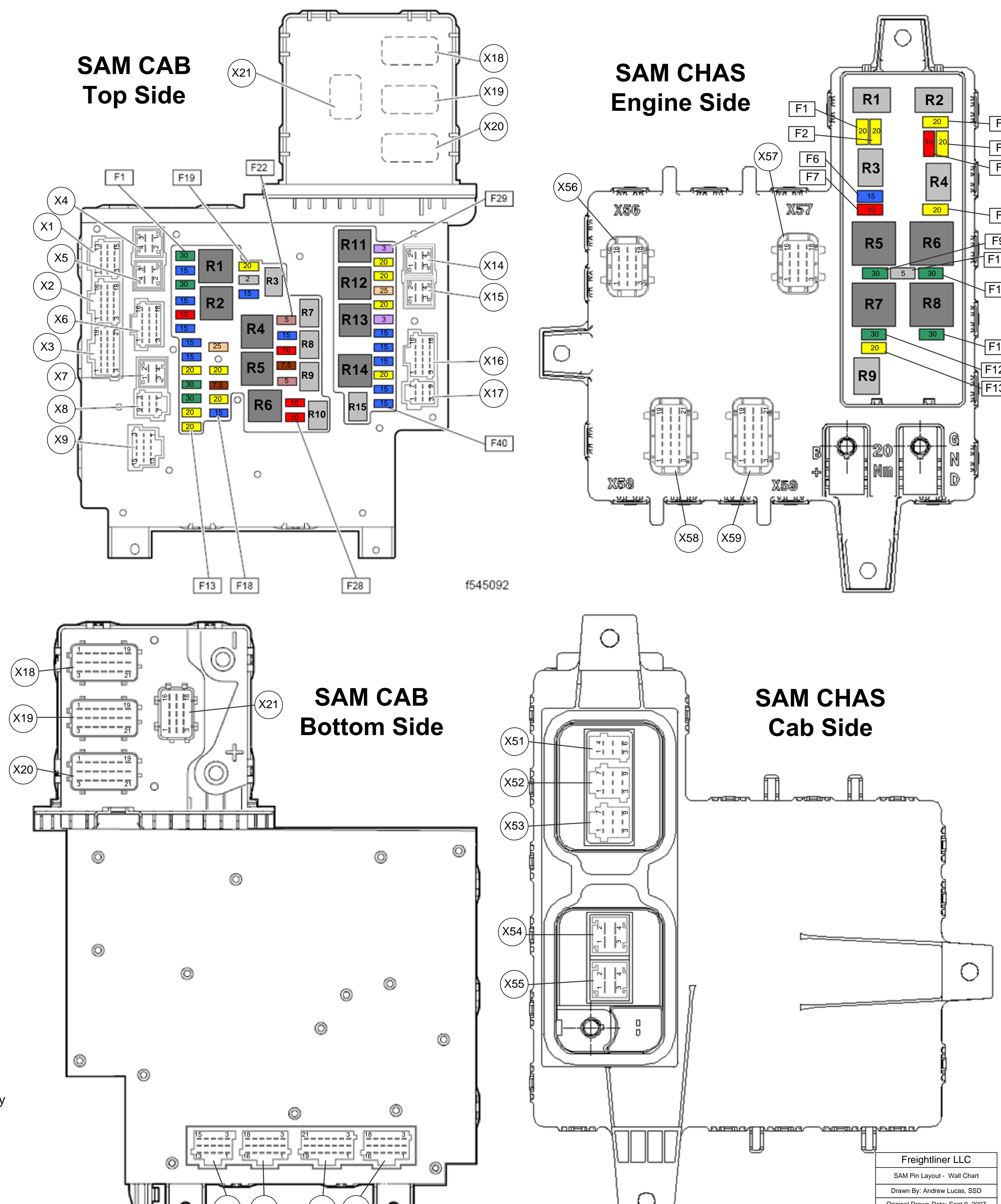
## SAM CABIN

## SAM CHASSIS



SAM CAB Top Side

SAM CHAS Engine Side



**Ignition Controlled Pins** - Turned on by FETs depending on ignition switch status, with three types, BAT, ACC, or IGN

**Logic Controlled Outputs** - Turned on and off by FETs depending on SAM inputs (from CAN and other input pins), interlocks and parameter settings. They are unfused, but will turn off in the case of an over current. Not all are powered pins, some pins are turned on and off to a ground, and are noted by GND.

**Ground Return Pins** - Dedicated ground pins connected internally to the SAM GND.

**Logic Controlled, Relayed, Fused Outputs** - Fused and controlled by a relay depending on either ignition switch status or by inputs to the SAM. The control side of all the relays are fused through one fuse on each SAM.

**Fused Passthroughs** - Constant BAT power through a fuse

**SAM Inputs** - All the inputs, either CAN inputs or sensor feedback. Many of these inputs are chopped signals.