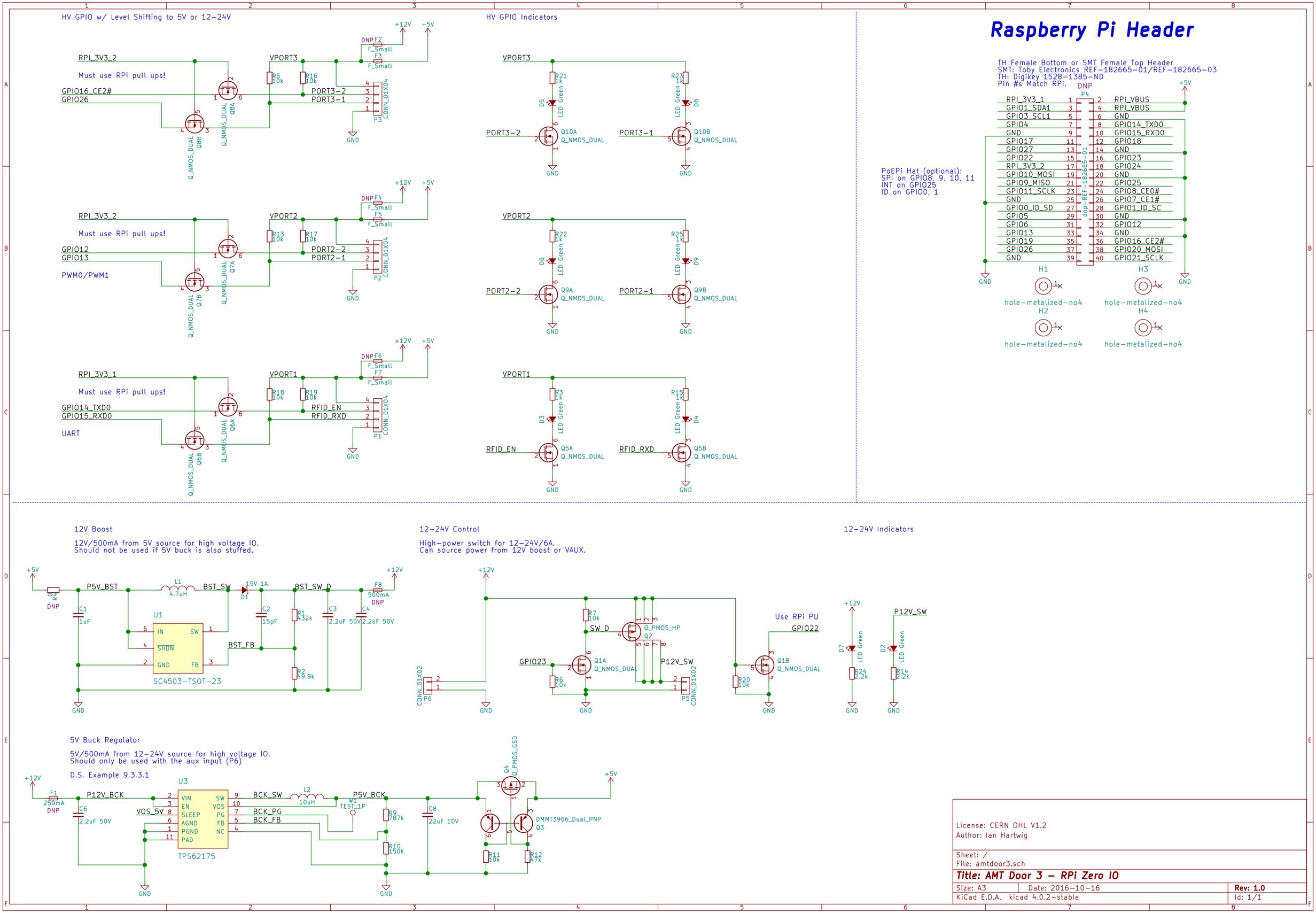
HV GPIO w/ Level Shifting to 5V or 12-24V
RPI_3V3_2
Must use RPi pull ups!
GPIO16_CE2#
GPIO26
VPORT3
PORT3-2
PORT3-1
RPI_3V3_2
Must use RPi pull ups!
GPIO12
GPIO13
PWM0/PWM1
VPORT2
PORT2-2
PORT2-1
RPI_3V3_1
Must use RPi pull ups!
GPIO14_TXD0
GPIO15_RXD0
UART
VPORT1
RFID_EN
RFID_RXD
HV GPIO Indicators
Raspberry Pi Header
TH Female Bottom or SMT Female Top Header
SMT: Toby Electronics REF-182665-01/REF-182665-03
TH: Digikey 1528-1385-ND
Pin #s Match RPi.
PoEPi Hat (optional):
SPI on GPIO8, 9, 10, 11
INT on GPIO25
ID on GPIO0, 1
12V Boost
12V/500mA from 5V source for high voltage IO.
Should not be used if 5V buck is also stuffed.
SC4503-TSOT-23
12-24V Control
High-power switch for 12-24V/6A.
Can source power from 12V boost or VAUX.
Use RPi PU
12-24V Indicators
5V Buck Regulator
5V/500mA from 12-24V source for high voltage IO.
Should only be used with the aux input (P6)
D.S. Example 9.3.3.1
TPS62175
License: CERN OHL V1.2
Author: Ian Hartwig
Sheet: /
File: amtdoor3.sch
Title: AMT Door 3 - RPi Zero IO
Size: A3
Date: 2016-10-16
Rev: 1.0
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Id: 1/1