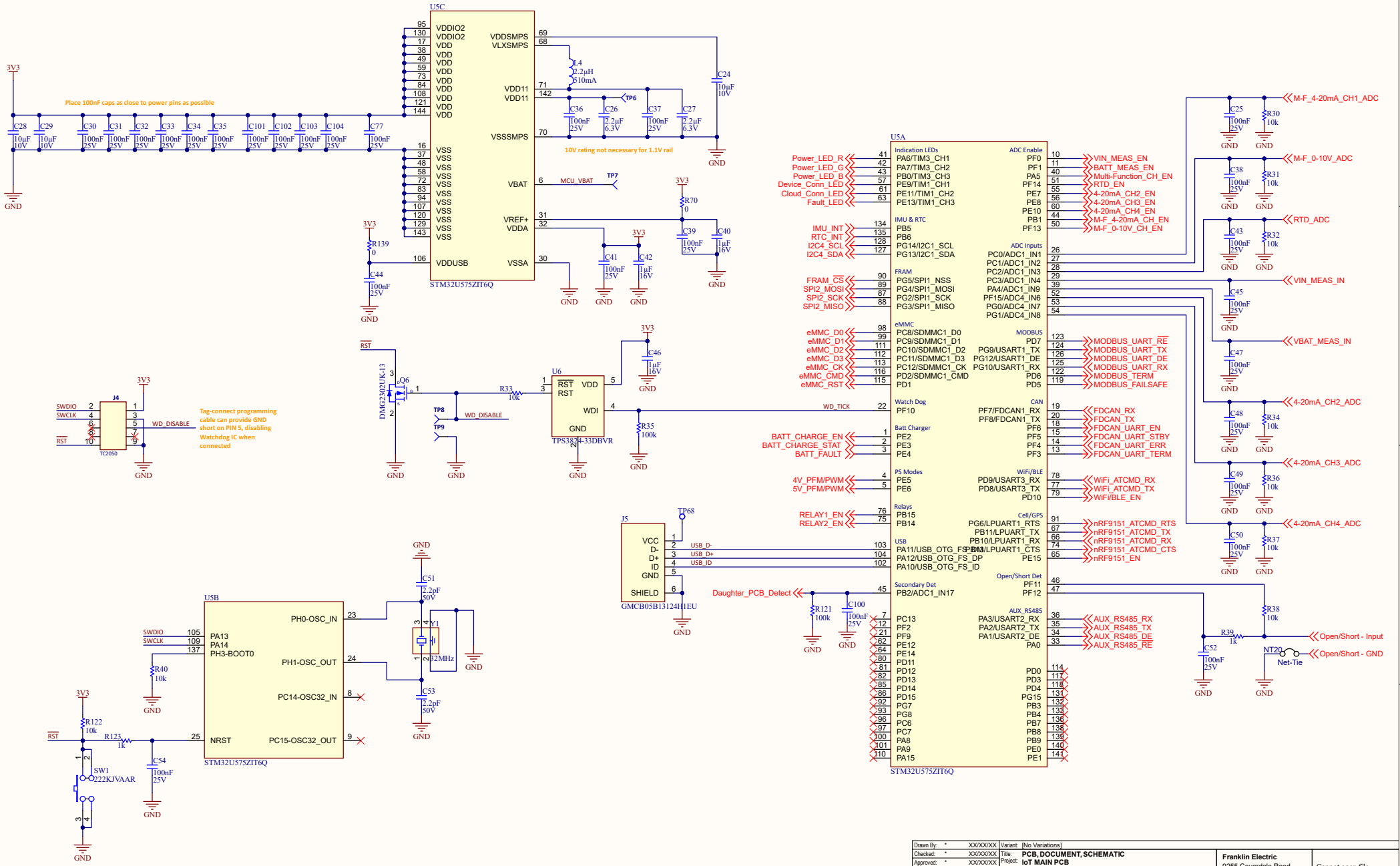
U5C
STM32U575ZIT6Q
Place 100nF caps as close to power pins as possible
10V rating not necessary for 1.1V rail
U5A
STM32U575ZIT6Q
U5B
STM32U575ZIT6Q
U6
TPS3824-33DBVR
Q6
DMG2302UK-13
J4
TC2050
Tag-connect programming cable can provide GND short on PIN 5, disabling Watchdog IC when connected
J5
GMCB05B13124H1EU
SW1
222KJVAAR
Y1
32MHz
Indication LEDs
Power_LED_R
Power_LED_G
Power_LED_B
Device_Conn_LED
Cloud_Conn_LED
Fault_LED
IMU & RTC
IMU_INT
RTC_INT
I2C4_SCL
I2C4_SDA
FRAM
FRAM_CS
SPI2_MOSI
SPI2_SCK
SPI2_MISO
eMMC
eMMC_D0
eMMC_D1
eMMC_D2
eMMC_D3
eMMC_CK
eMMC_CMD
eMMC_RST
Watch Dog
WD_TICK
Batt Charger
BATT_CHARGE_EN
BATT_CHARGE_STAT
BATT_FAULT
PS Modes
4V_PFM/PWM
5V_PFM/PWM
Relays
RELAY1_EN
RELAY2_EN
USB
USB_D-
USB_D+
USB_ID
Daughter_PCB_Detect
Secondary Det
ADC Enable
ADC Inputs
MODBUS
CAN
WiFi/BLE
Cell/GPS
Open/Short Det
AUX_RS485
M-F_4-20mA_CH1_ADC
M-F_0-10V_ADC
RTD_ADC
VIN_MEAS_IN
VBAT_MEAS_IN
4-20mA_CH2_ADC
4-20mA_CH3_ADC
4-20mA_CH4_ADC
Open/Short - Input
Open/Short - GND
Net-Tie
Drawn By: * XX/XX/XX
Checked: * XX/XX/XX
Approved: * XX/XX/XX
BOM No: xxxxxxxxxx
M/A No: xxxxxxxxxx
PCB No: 10000020670
CONFIDENTIAL
Variant: [No Variations]
Title: PCB, DOCUMENT, SCHEMATIC
Project: IoT MAIN PCB
Size: B
Number: 10000020916
Revision: 000
Date: 29/04/2025
Time: 10:16:26
Sheet: 4 of 10
Franklin Electric
9255 Coverdale Road
Fort Wayne, Indiana 46809
Cannot open file
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