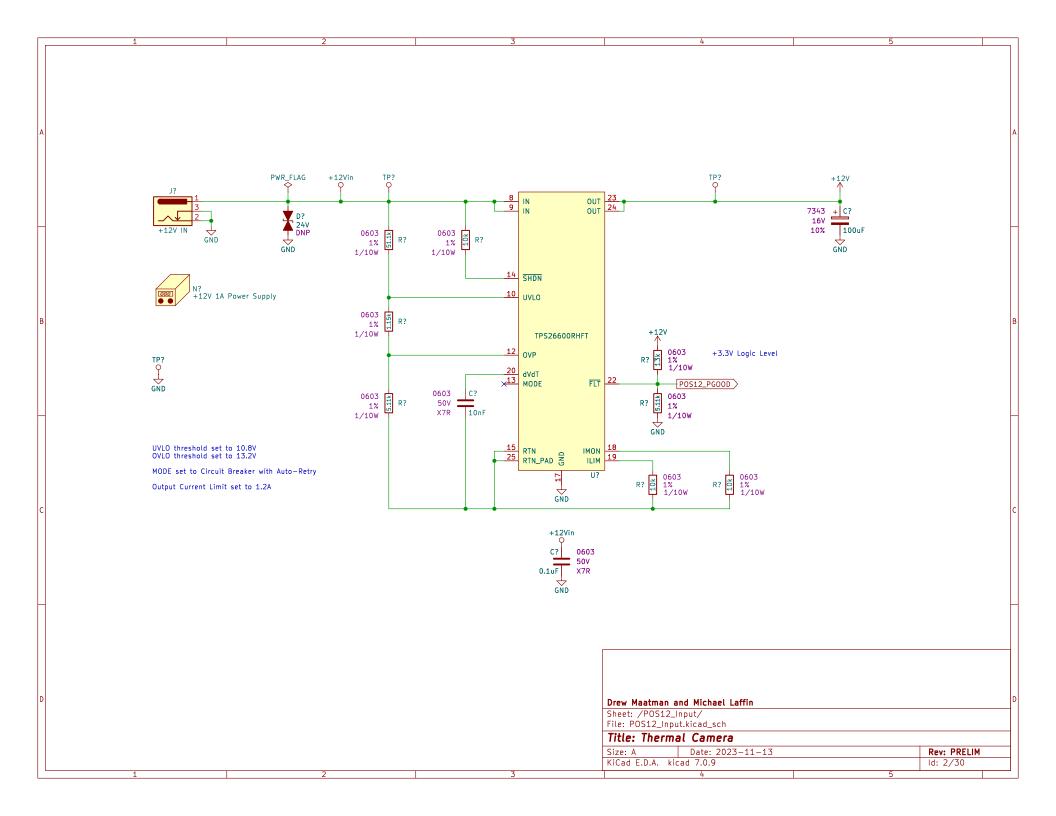
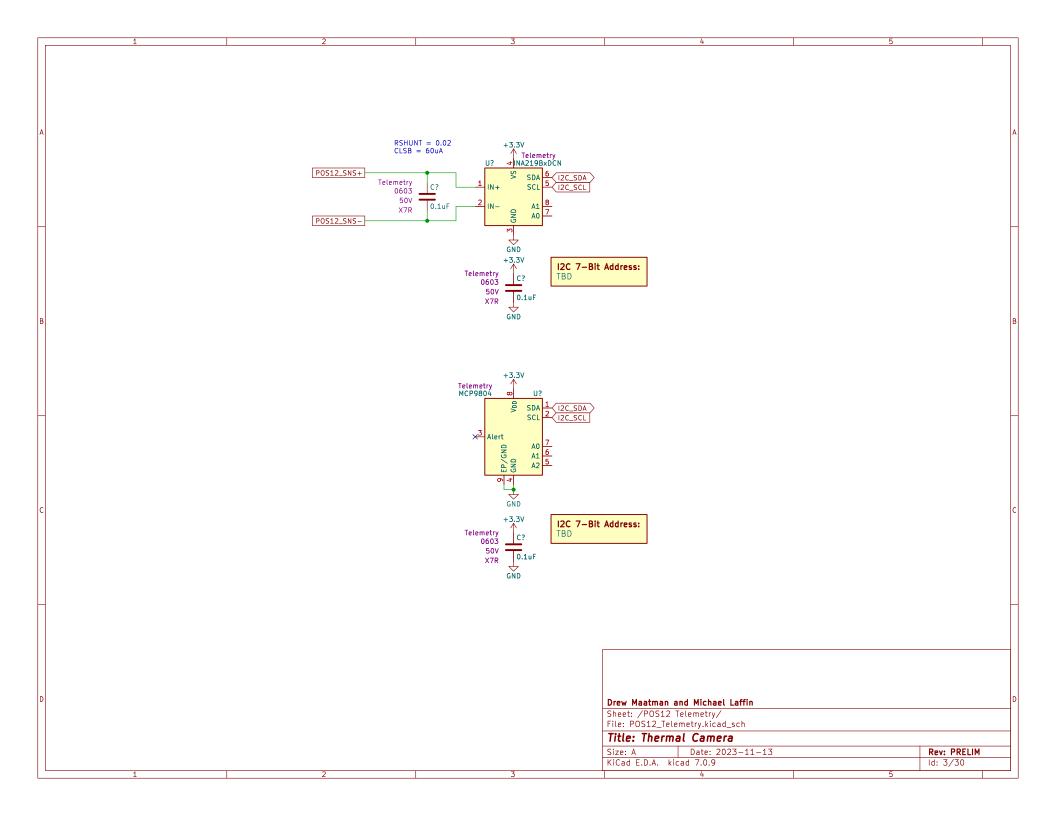
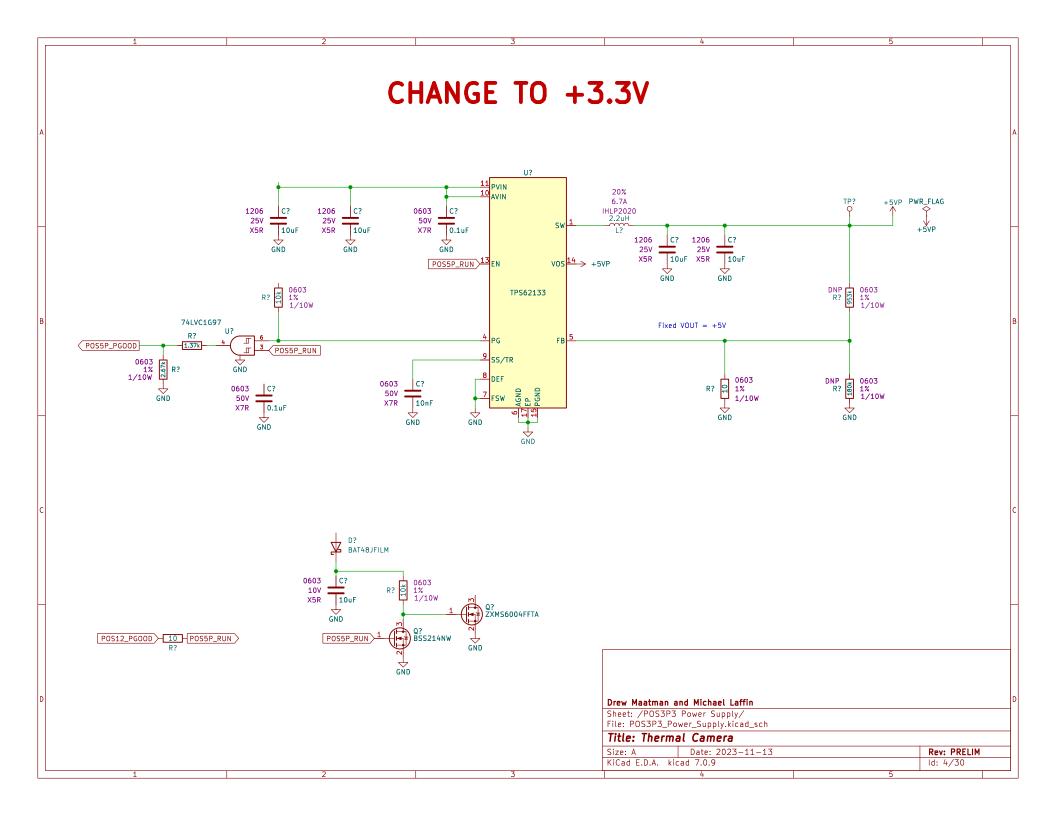
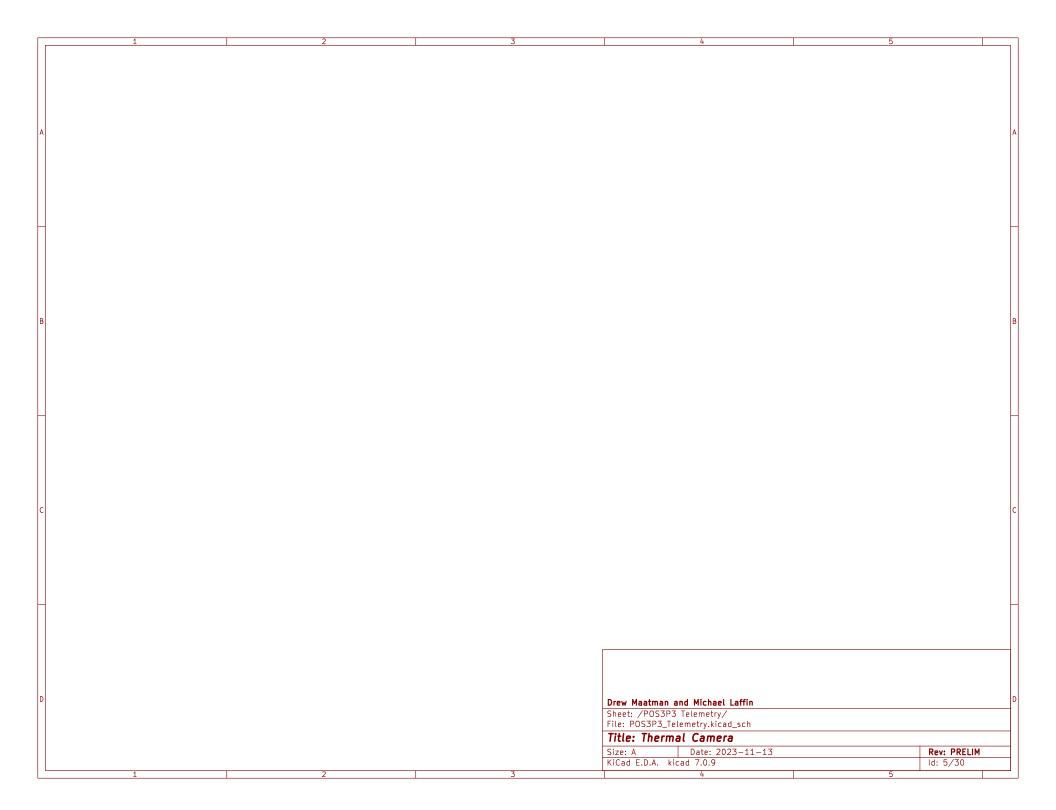
Thermal Camera

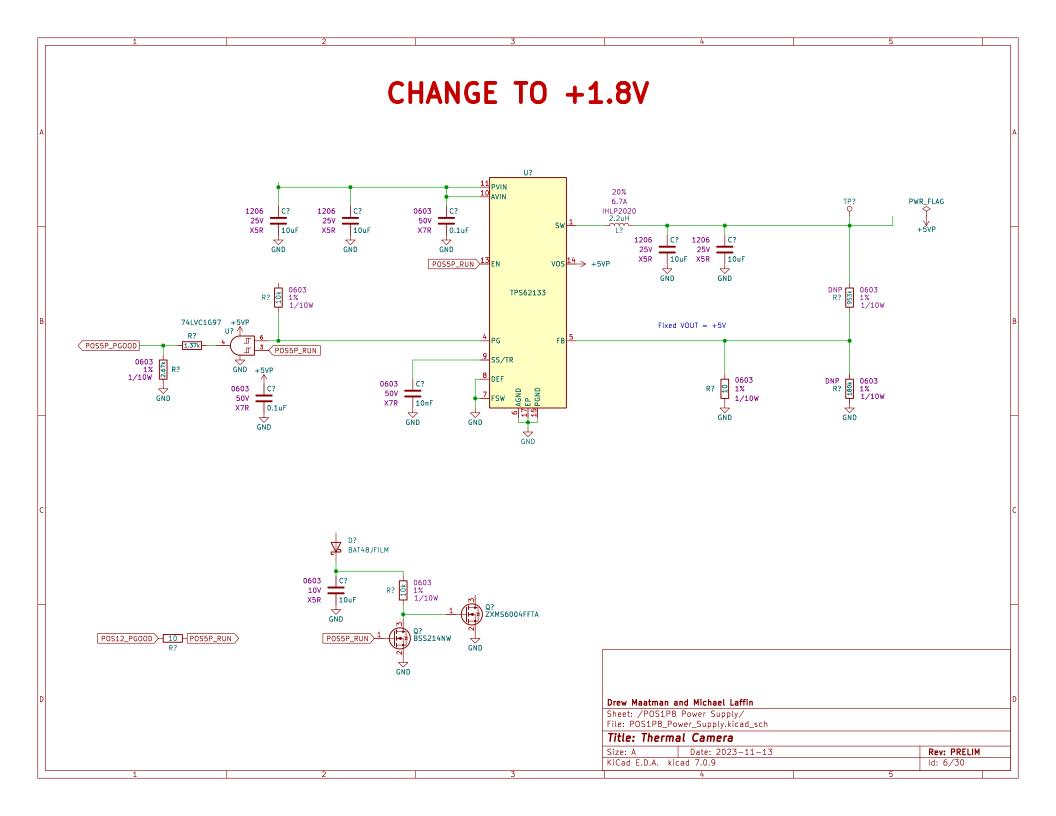
	https:	//github.com/drewsum/Therm	mal_Camera		
01. Table of Contents					
02. POS12 Input	POS12_Input	14. LCD Backlight Power Supply	LCD Backlight Power Supply	26. FLIR Lepton Sensor	FLIR Lepton Sensor
03. POS12 Telemetry	POS12 Telemetry	15. LCD Backlight Telemetry	LCD Backlight Telemetry	27. USB Hub	USB Hub
04. POS3P3 Power Supply	POS3P3 Power Supply	16. Battery Management	Battery Management	28. PGOOD LEDs	PGOOD LEDs
05. POS3P3 Telemetry	POS3P3 Telemetry	17. PIC32MZ DA Programming	PIC32MZ DA Programming	29. Status LEDs	Status LEDs
06. POS1P8 Power Supply	POS1P8 Power Supply	18. PIC32MZ DA Clocking	PIC32MZ DA Clocking	30. Mechanical	Mechanical
07. POS1P8 Telemetry	POS1P8 Telemetry	19. PIC32MZ DA Power	PIC32MZ DA Power		
08. POS3PO Power Supply	POS3PO Power Supply	20. PIC32MZ DA 1	PIC32MZ DA 1		
09. POS3PO Telemetry	POS3PO Telemetry	21. PIC32MZ DA 2	PIC32MZ DA 2		
10. POS2P8 Power Supply	POS2P8 Power Supply	22. External Storage	External Storage		
11. POS2P8 Telemetry	POS2P8 Telemetry	23. Graphic LCD	Graphic LCD		ı
12. POS1P2 Power Supply	POS1P2 Power Supply	24. USB UART	USB UART		
13. POS1P2 Telemetry	POS1P2 Telemetry	25. Elapsed Time Counter	Elapsed Time Counter		-
			Drew Maatman and Michae Sheet: / File: Thermal_Camera.kicac		
			Title: Thermal Came		
			Size: A Date: 2	023-11-13	Rev: PRELIM
			KiCad E.D.A. kicad 7.0.9		ld: 1/30

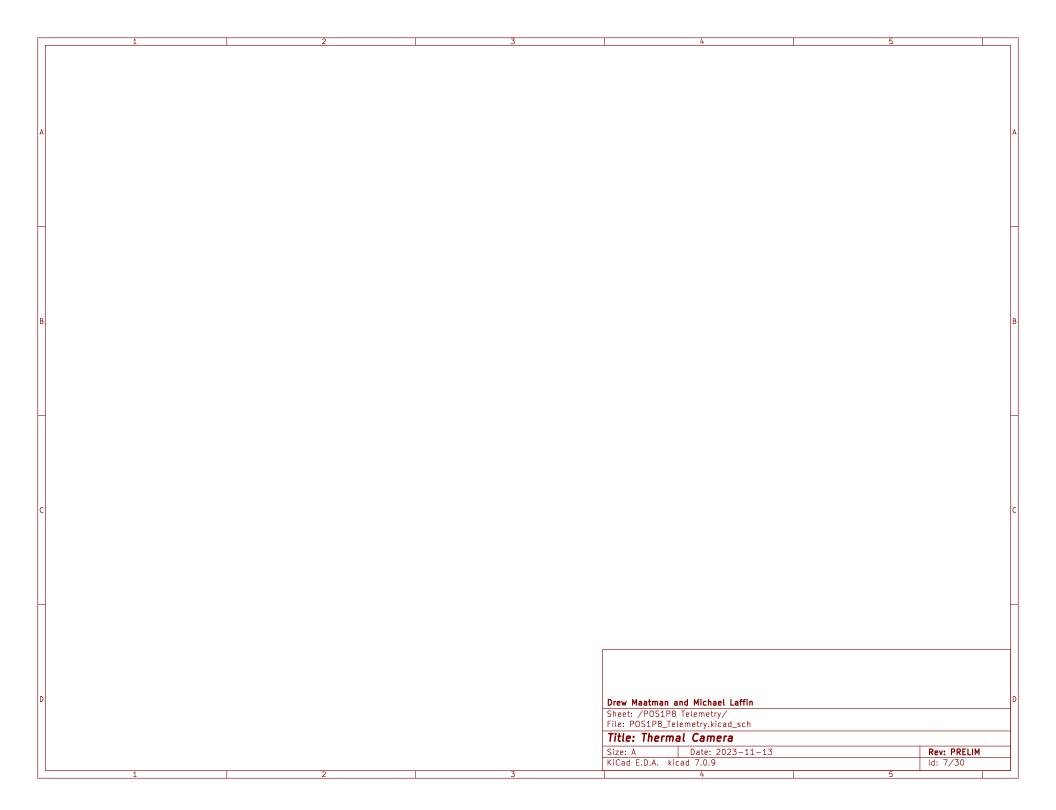


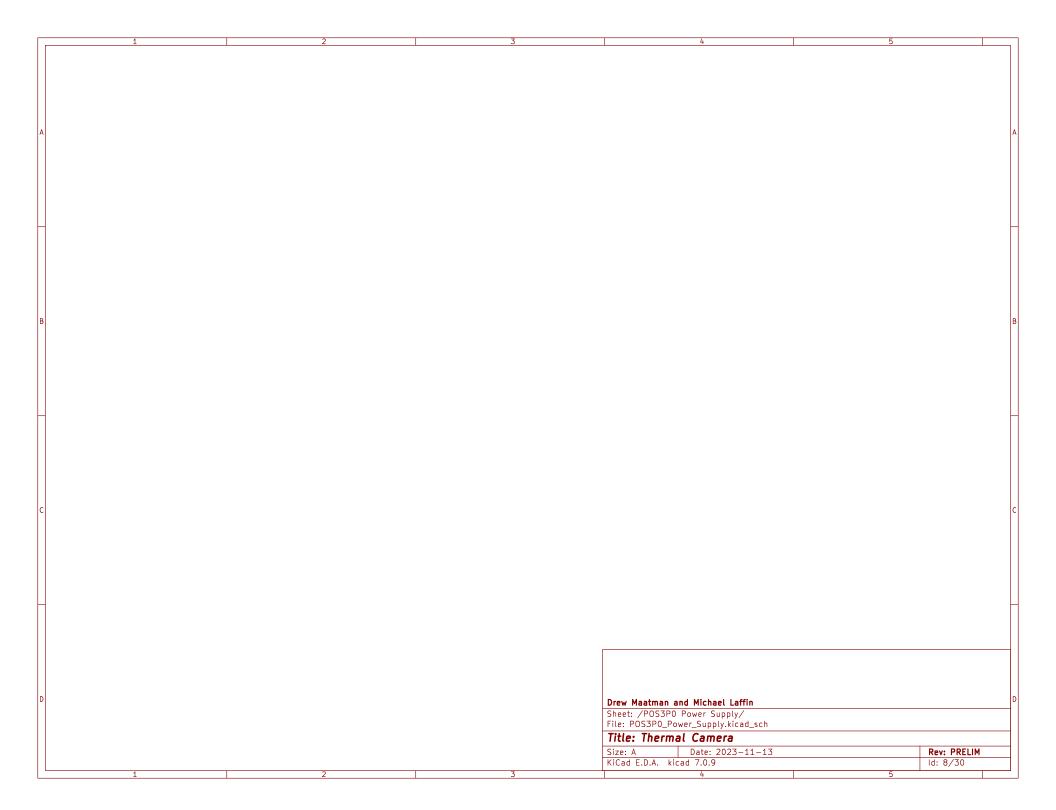


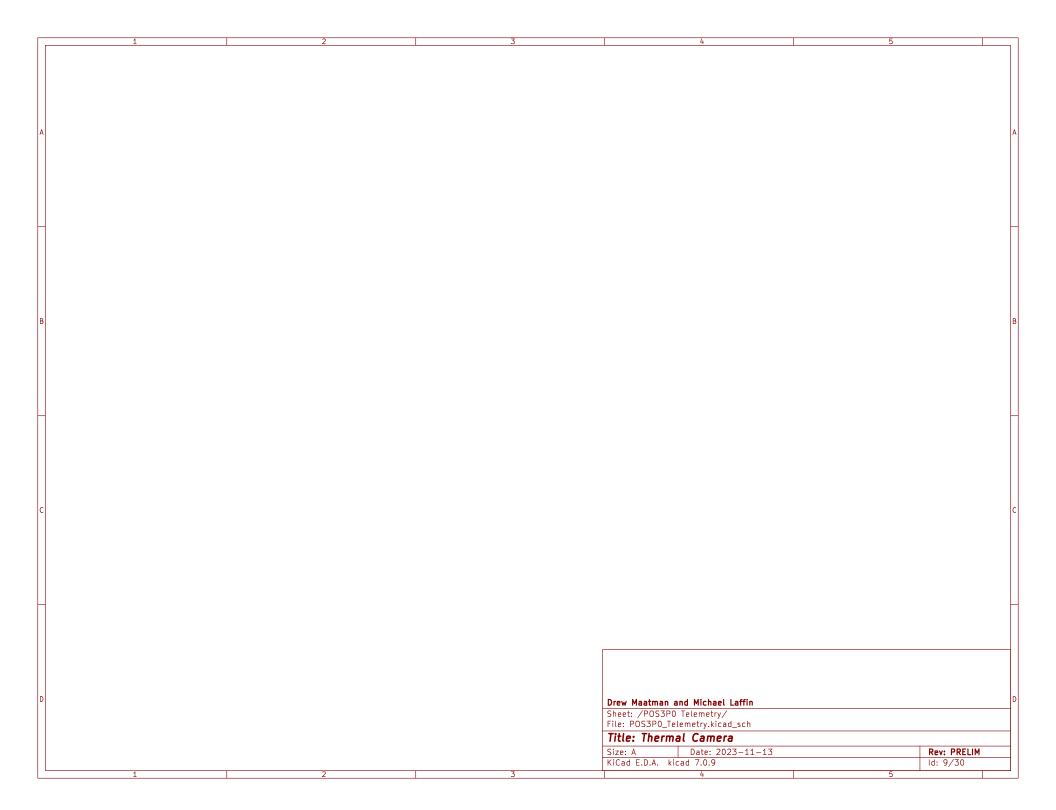


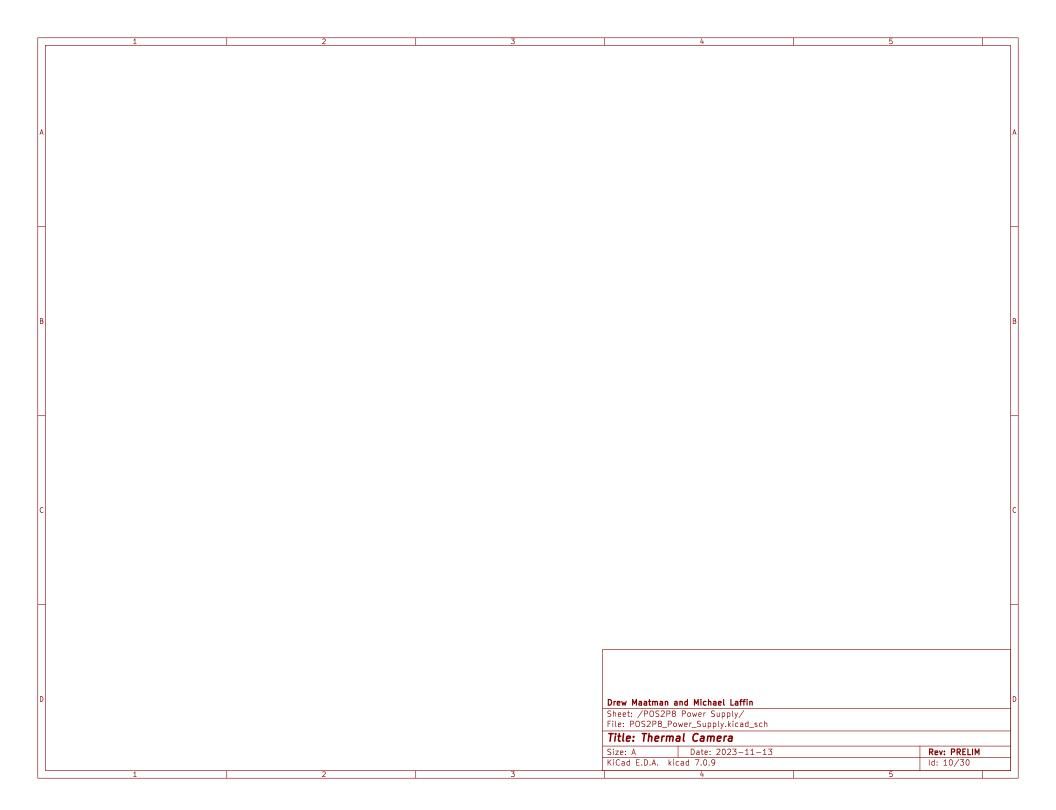


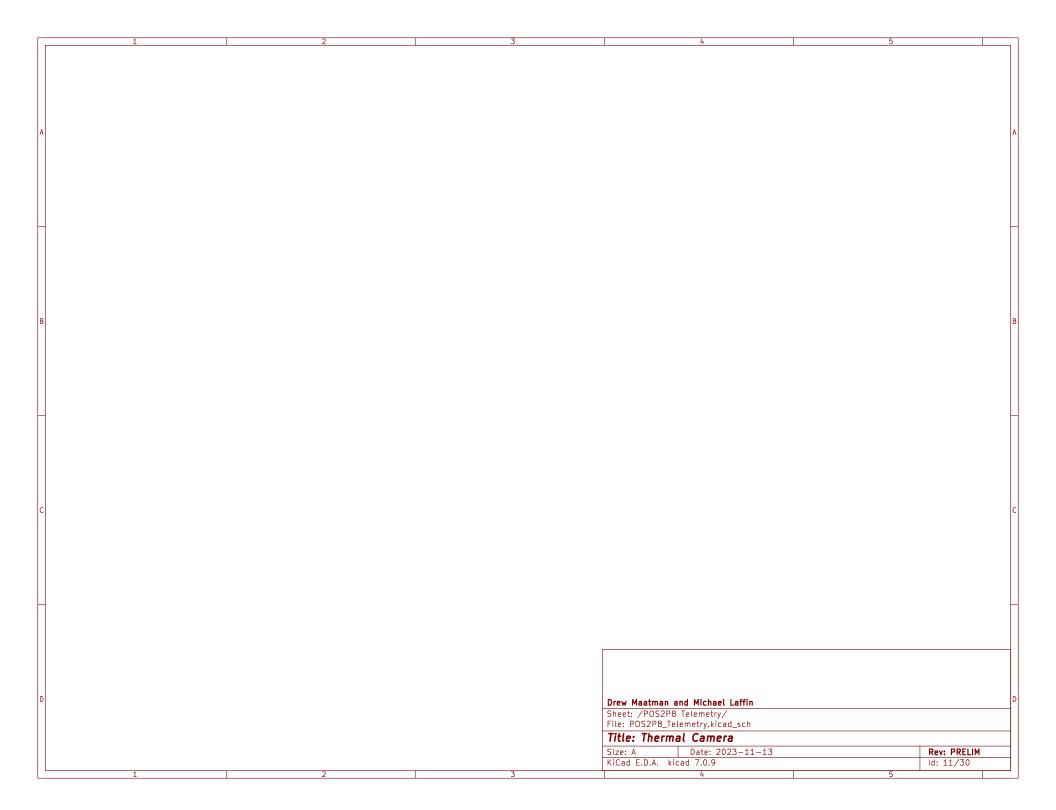


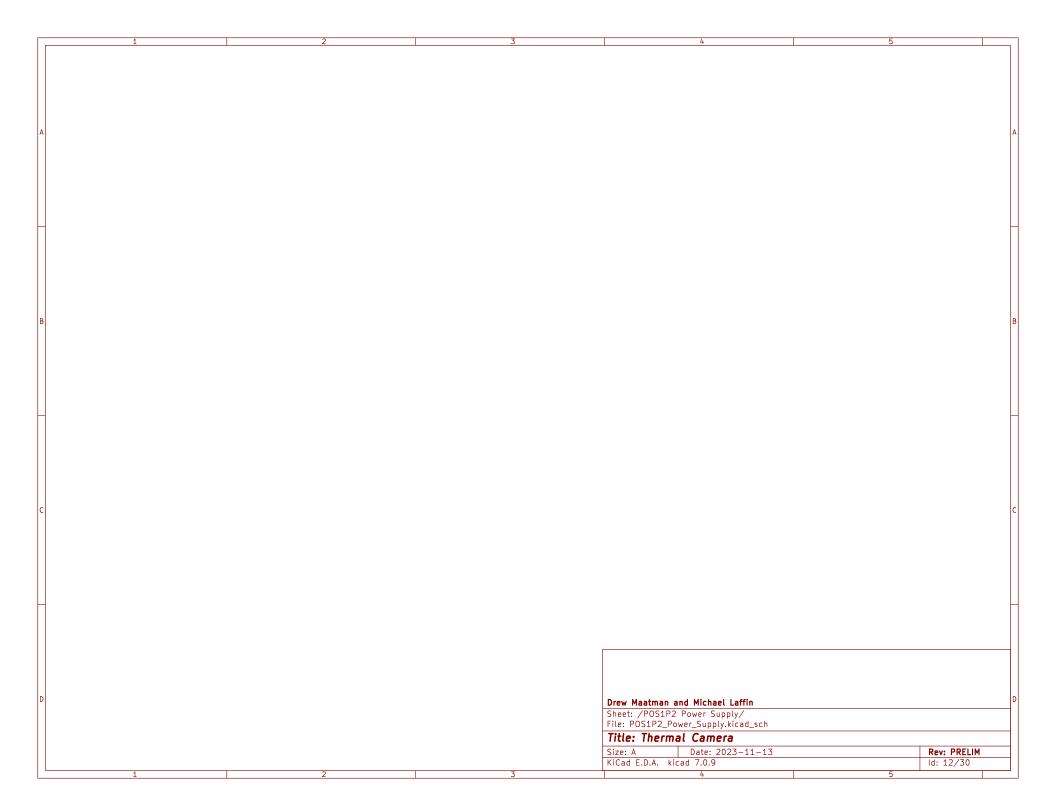


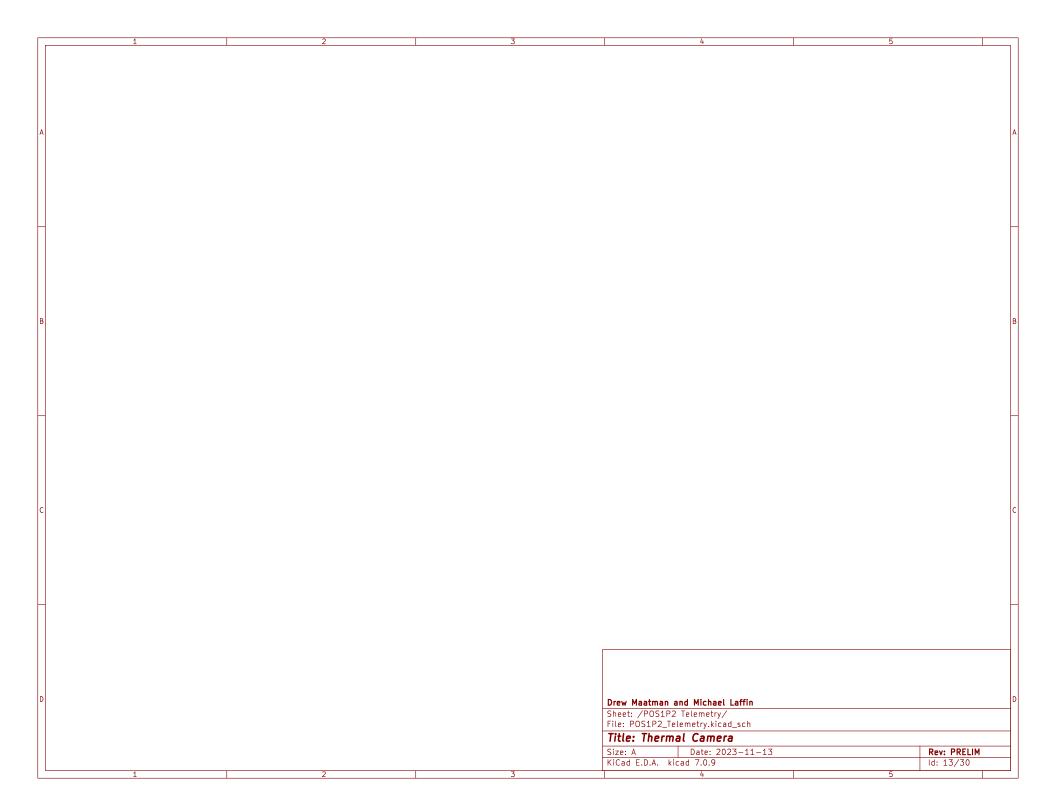






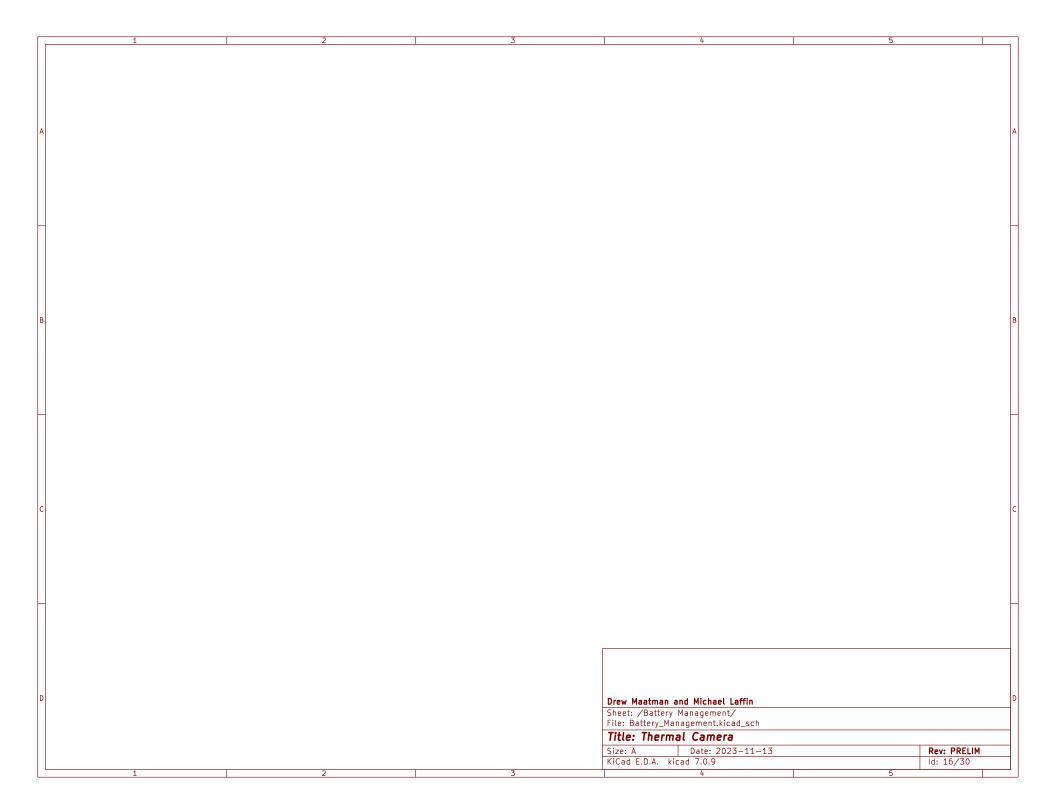




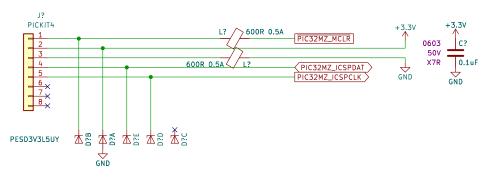


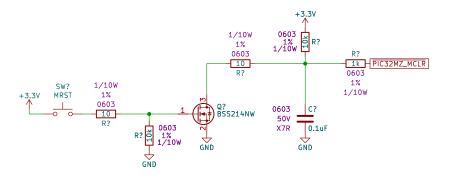
	1	3	T	7	T //	T 5		
1		-			'			
								A
Ш								
$ \cdot $								
$ \cdot $								
$\  \ $								
								0
								6
П								
П								
$\  \ $								
$\  \ $								
C								C
$\  \ $								
П								
$\  \ $								
$\  \ $								
Н								$\vdash$
П								
$\  \ $								
$\  \ $								$\neg$
$\  \ $								
$\  \ $								
D					Drew Maatman and Michael Laffin			D
$\  \ $					Sheet: /LCD Backlight Power Supply/ File: LCD_Backlight_Power_Supply.kicad_sch			$\neg$
					File: LCD_Backlight_Power_Supply.kicad_sch	<u> </u>		
					Title: Thermal Camera			$\neg$
$\  \ $					Size: A Date: 2023_11_13		Rev: PRFIIM	$\dashv$
$\  \ $					Size: A Date: 2023-11-13 KiCad E.D.A. kicad 7.0.9		Rev: PRELIM ld: 14/30	$\dashv$
11	1	2		3	4	5	,	

1	2	3	4	5		
A						A
В						В
С						C
D			Drew Maatman and Michael Laffin Sheet: /LCD Backlight Telemetry/ File: LCD_Backlight_Telemetry.kicad_s  Title: Thermal Camera  Size: A Date: 2023-11-1  KiCad E.D.A. kicad 7.0.9		<b>Rev: PRELIM</b> ld: 15/30	D



## COPIED FROM PIC32MZ EF FIX FOR PIC32MZ DA CONSIDER REMOVING BEADS





## Drew Maatman and Michael Laffin

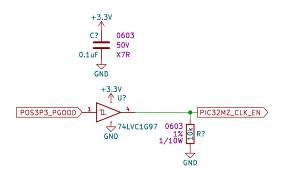
Sheet: /PIC32MZ DA Programming/ File: PIC32MZ\_DA\_Programming.kicad\_sch

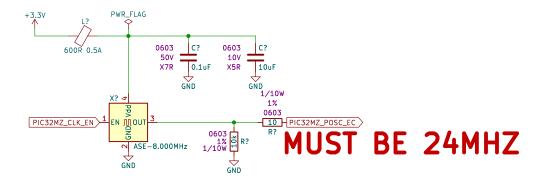
| Title: Thermal Camera

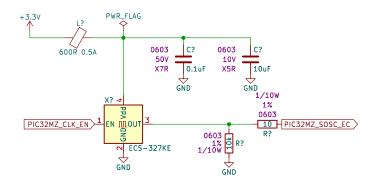
 Size: A
 Date: 2023-11-13
 Rev: PRELIM

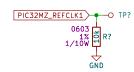
 KiCad E.D.A. kicad 7.0.9
 Id: 17/30

## COPIED FROM PIC32MZ EF FIX FOR PIC32MZ DA









Drew Maatman and Michael Laffin

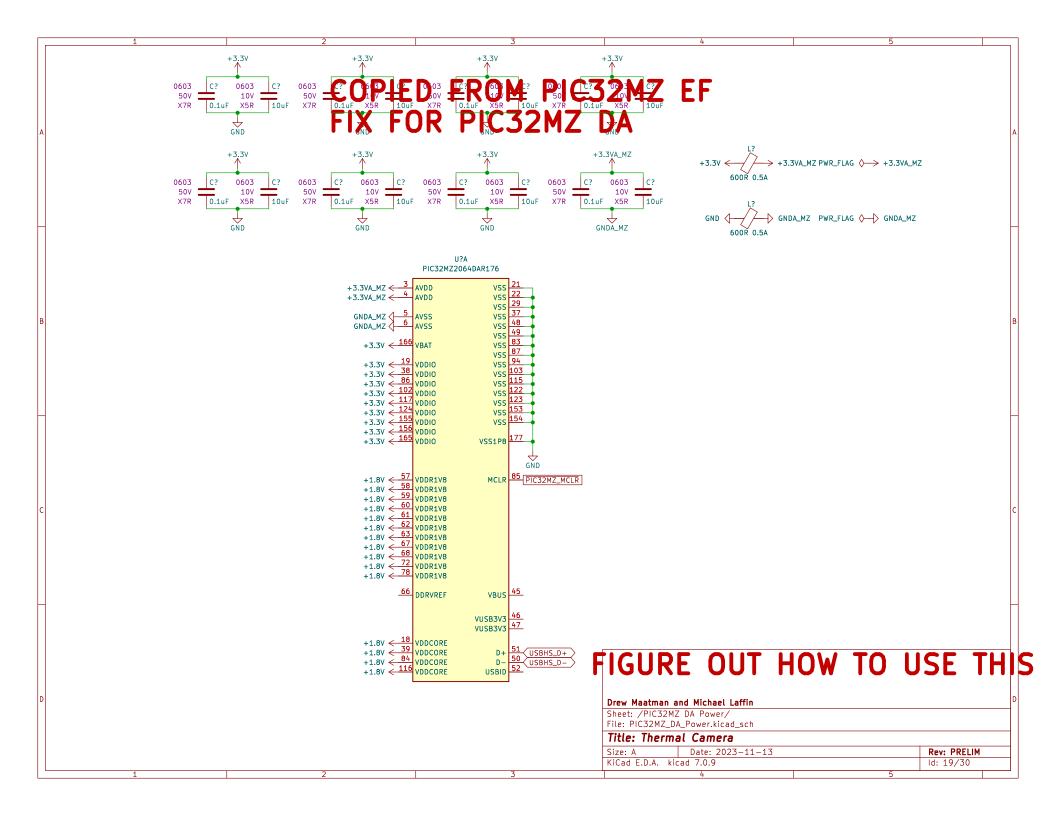
Sheet: /PIC32MZ DA Clocking/ File: PIC32MZ\_DA\_Clocking.kicad\_sch

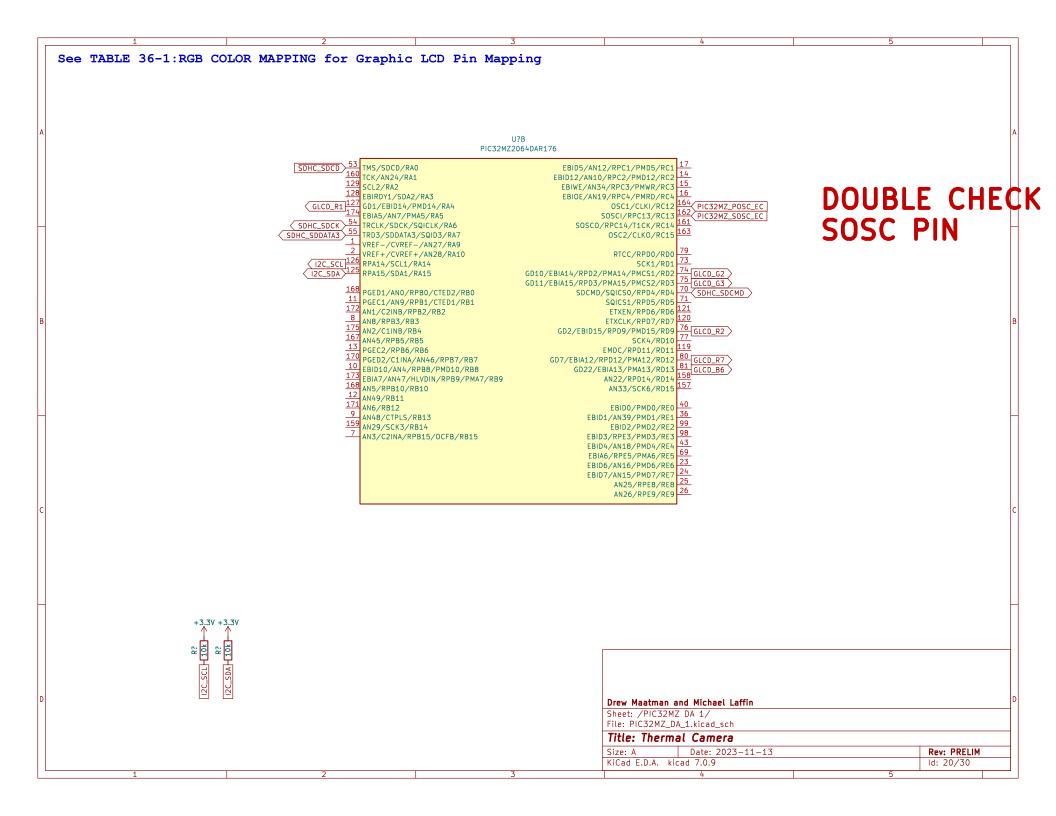
| Title: Thermal Camera

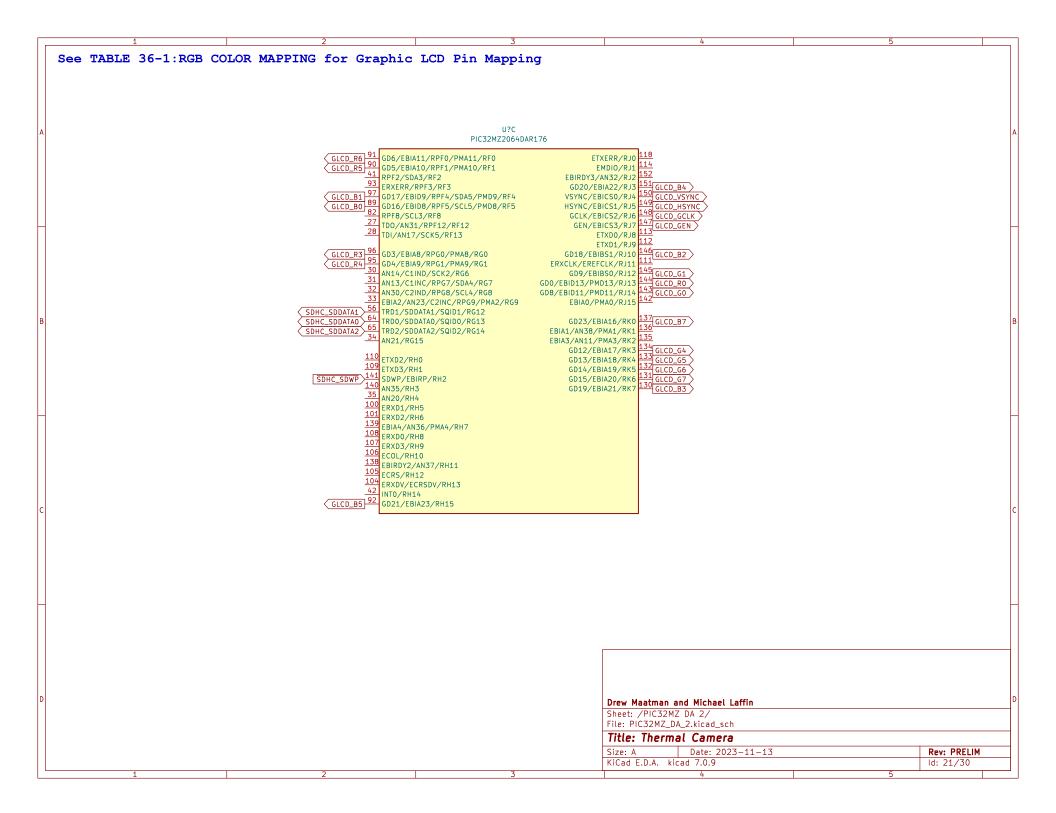
 Size: A
 Date: 2023-11-13
 Rev: PRELIM

 KiCad E.D.A. kicad 7.0.9
 Id: 18/30

2







SDHC\_SDDATA1
SDHC\_SDDATA0
SDHC\_SDDATA2

SDHC\_SDDATA2

SDHC\_SDCD

SDHC\_SDCD

SDHC\_SDCMD

SDHC\_SDCK
SDHC\_SDDATA3

SD CARD, SQI FLASH

SQI FLASH may not be able to be broken out when PIC is configured for SDHC:
CONSIDER OPTIONS FOR SUPPORTING EITHER

BREAK OUT A SPI TO SD CARD AS INSURANCE

Drew Maatman and Michael Laffin

Sheet: /External Storage/
File: External\_Storage.kicad\_sch

Title: Thermal Camera

 Size: A
 Date: 2023-11-13
 Rev: PRELIM

 KiCad E.D.A. kicad 7.0.9
 Id: 22/30

