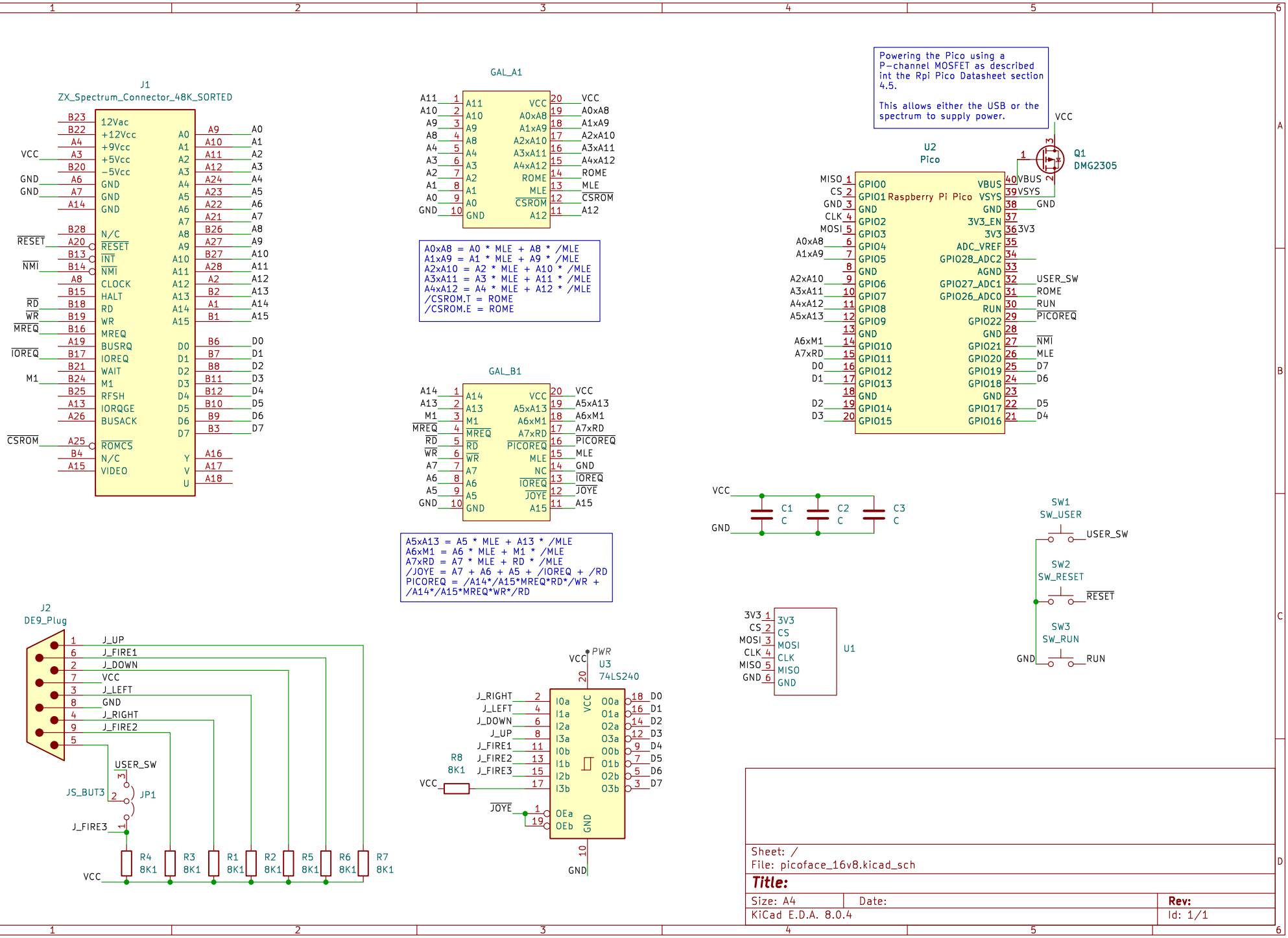
J1
ZX_Spectrum_Connector_48K_SORTED
12Vac
+12Vcc
+9Vcc
+5Vcc
−5Vcc
GND
N/C
RESET
INT
NMI
CLOCK
HALT
RD
WR
MREQ
BUSRQ
IOREQ
WAIT
M1
RFSH
IORQGE
BUSACK
ROMCS
N/C
VIDEO
GAL_A1
A0xA8 = A0 * MLE + A8 * /MLE
A1xA9 = A1 * MLE + A9 * /MLE
A2xA10 = A2 * MLE + A10 * /MLE
A3xA11 = A3 * MLE + A11 * /MLE
A4xA12 = A4 * MLE + A12 * /MLE
/CSROM.T = ROME
/CSROM.E = ROME
GAL_B1
A5xA13 = A5 * MLE + A13 * /MLE
A6xM1 = A6 * MLE + M1 * /MLE
A7xRD = A7 * MLE + RD * /MLE
/JOYE = A7 + A6 + A5 + /IOREQ + /RD
PICOREQ = /A14*/A15*MREQ*RD*/WR +
/A14*/A15*MREQ*WR*/RD
Powering the Pico using a
P−channel MOSFET as described
int the Rpi Pico Datasheet section
4.5.
This allows either the USB or the
spectrum to supply power.
U2
Pico
Raspberry Pi Pico
Q1
DMG2305
C1
C2
C3
SW1
SW_USER
SW2
SW_RESET
SW3
SW_RUN
U1
J2
DE9_Plug
J_UP
J_FIRE1
J_DOWN
J_LEFT
J_RIGHT
J_FIRE2
USER_SW
JS_BUT3
JP1
J_FIRE3
R4
R3
R1
R2
R5
R6
R7
8K1
R8
U3
74LS240
PWR
Sheet: /
File: picoface_16v8.kicad_sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. 8.0.4
Id: 1/1