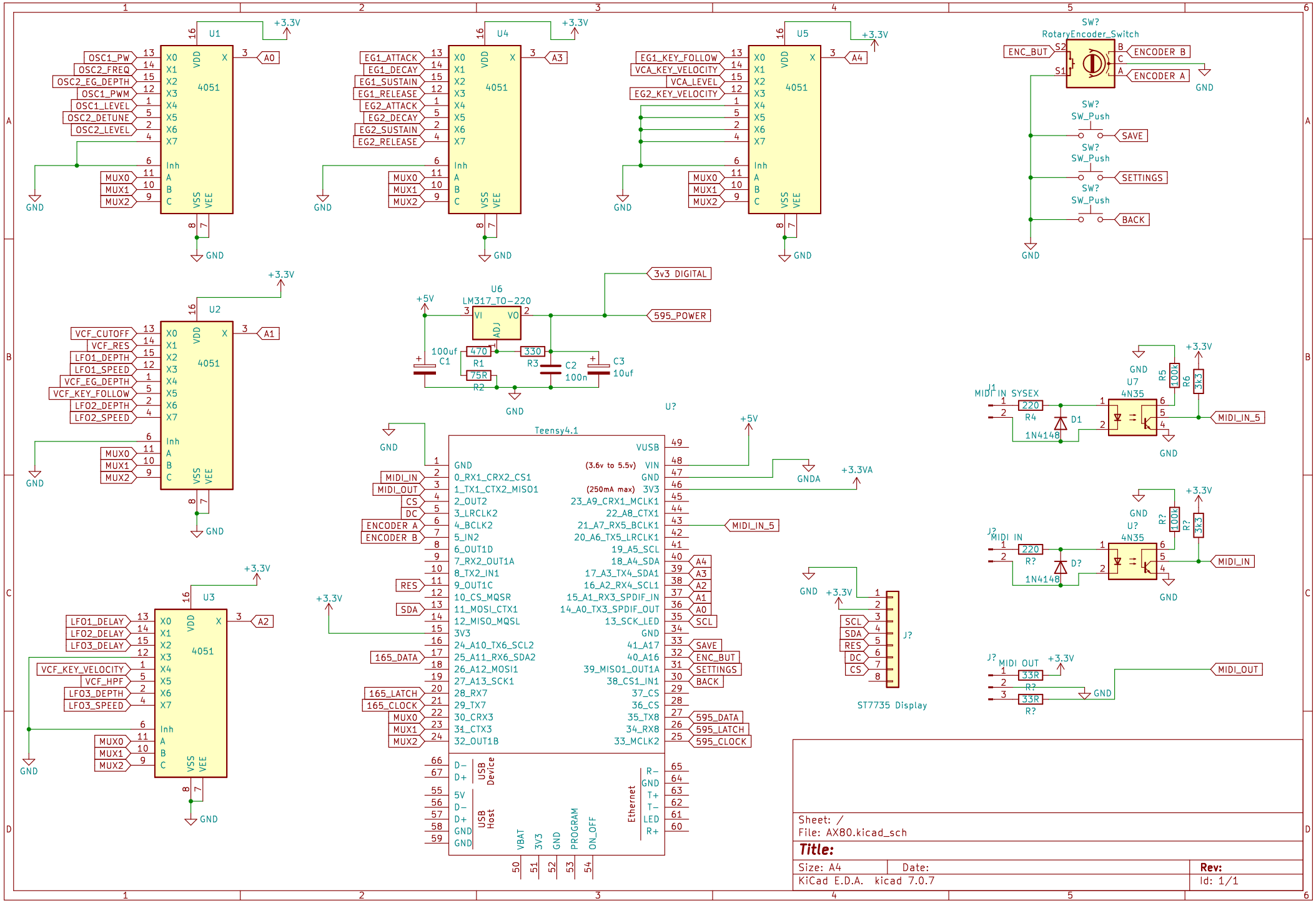
U1
4051
OSC1_PW
OSC2_FREQ
OSC2_EG_DEPTH
OSC1_PWM
OSC1_LEVEL
OSC2_DETUNE
OSC2_LEVEL
MUX0
MUX1
MUX2
A0
+3.3V
GND
U4
4051
EG1_ATTACK
EG1_DECAY
EG1_SUSTAIN
EG1_RELEASE
EG2_ATTACK
EG2_DECAY
EG2_SUSTAIN
EG2_RELEASE
A3
U5
4051
EG1_KEY_FOLLOW
VCA_KEY_VELOCITY
VCA_LEVEL
EG2_KEY_VELOCITY
A4
SW?
RotaryEncoder_Switch
ENC_BUT
ENCODER B
ENCODER A
SW?
SW_Push
SAVE
SETTINGS
BACK
U2
4051
VCF_CUTOFF
VCF_RES
LFO1_DEPTH
LFO1_SPEED
VCF_EG_DEPTH
VCF_KEY_FOLLOW
LFO2_DEPTH
LFO2_SPEED
A1
U6
LM317_TO-220
VI
VO
ADJ
+5V
3v3 DIGITAL
595_POWER
100uf
C1
470
R1
75R
R2
330
R3
C2
100n
C3
10uf
U3
4051
LFO1_DELAY
LFO2_DELAY
LFO3_DELAY
VCF_KEY_VELOCITY
VCF_HPF
LFO3_DEPTH
LFO3_SPEED
A2
U?
Teensy4.1
MIDI_IN
MIDI_OUT
CS
DC
ENCODER A
ENCODER B
RES
SDA
165_DATA
165_LATCH
165_CLOCK
MIDI_IN_5
SAVE
ENC_BUT
SETTINGS
BACK
595_DATA
595_LATCH
595_CLOCK
VUSB
(3.6v to 5.5v) VIN
(250mA max) 3V3
GNDA
+3.3VA
USB Device
USB Host
Ethernet
VBAT
PROGRAM
ON_OFF
J1
MIDI IN SYSEX
220
R4
D1
1N4148
U7
4N35
R5
100k
R6
3k3
MIDI_IN_5
J?
MIDI IN
R?
D?
MIDI_IN
J?
MIDI OUT
33R
MIDI_OUT
J?
ST7735 Display
SCL
SDA
RES
DC
CS
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Size: A4
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Rev:
KiCad E.D.A. kicad 7.0.7
Id: 1/1