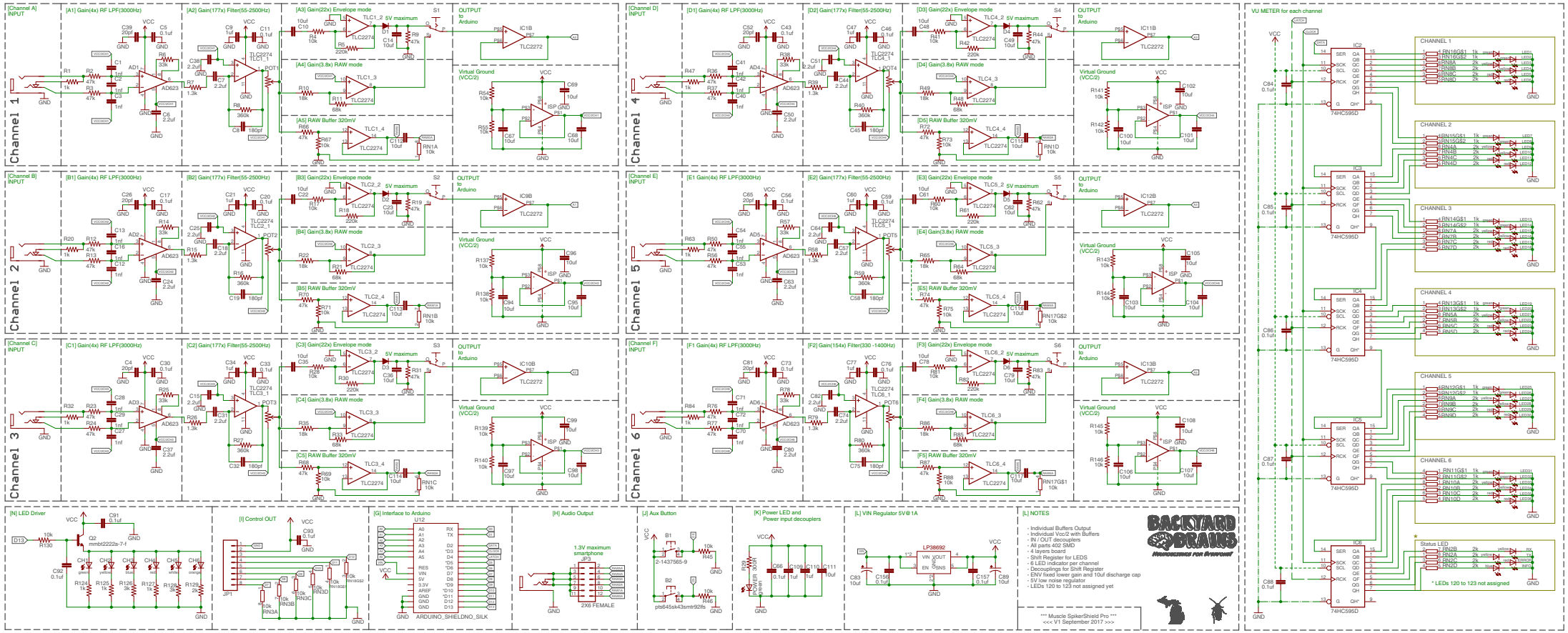
Channel 1
Channel 2
Channel 3
Channel 4
Channel 5
Channel 6
[Channel A] INPUT
[Channel B] INPUT
[Channel C] INPUT
[Channel D] INPUT
[Channel E] INPUT
[Channel F] INPUT
[A1] Gain(4x) RF LPF(3000Hz)
[A2] Gain(177x) Filter(55-2500Hz)
[A3] Gain(22x) Envelope mode
[A4] Gain(3.8x) RAW mode
[A5] RAW Buffer 320mV
OUTPUT to Arduino
Virtual Ground (VCC/2)
5V maximum
VU METER for each channel
CHANNEL 1
CHANNEL 2
CHANNEL 3
CHANNEL 4
CHANNEL 5
CHANNEL 6
Status LED
* LEDs 120 to 123 not assigned
74HC595D
[N] LED Driver
[I] Control OUT
[G] Interface to Arduino
ARDUINO_SHIELDNO_SILK
[H] Audio Output
1.3V maximum smartphone
2X6 FEMALE
[J] Aux Button
[K] Power LED and Power input decouplers
[L] VIN Regulator 5V@1A
LP38692
[L] NOTES
- Individual Buffers Output
- Individual Vcc/2 with Buffers
- IN / OUT decouplers
- All parts 402 SMD
- 4 layers board
- Shift Register for LEDS
- 6 LED indicator per channel
- Decouplings for Shift Register
- ENV fixed lower gain and 10uf discharge cap
- 5V low noise regulator
- LEDs 120 to 123 not assigned yet
*** Muscle SpikerShield Pro ***
<<< V1 September 2017 >>>
BACKYARD BRAINS
Neuroscience for everyone!