Figure 2A - MCU 1 (Arduino UNO) Connections:

74C922 Keypad Encoder:

Enable: Grounded

Data\_Avail: Connected to pin A5 of Arduino UNO.

Out\_A: Connected to pin ~10 of Arduino UNO.

Out\_B: Connected to pin ~11 of Arduino UNO.

Out\_C: Connected to pin 12 of Arduino UNO.

Out\_D: Connected to pin A3 of Arduino UNO.

The encoder is further connected to a 16-Key Keypad (Front View).

LCD (FN 142-554):

Multiple connections:

DB7: Connected to pin 2 of Arduino UNO.

DB6: Connected to pin ~3 of Arduino UNO.

DB5: Connected to pin 4 of Arduino UNO.

DB4: Connected to pin ~5 of Arduino UNO.

E (Enable): Connected to pin 7 of Arduino UNO.

RS: Connected to pin ~6 of Arduino UNO.

It seems to be in 4-bit mode as only D4 to D7 pins of the LCD are connected.

10K Pot(Potentiometer):

Connected to the Vee of the LCD (FN 142-554) while being also connected to the power source(+5V) and the ground

Toggle Switch:

Connected via a 10K resistor to the +5V power. The other terminal of the switch seems to be connected to ground.(When switch is open, pin will be HIGH)

Connected to the Arduino Uno at A4

Communication with MCU 2 (Figure 2B): (Likewise a table box on the top left hand corner)

"MCU1 - Pin 8" (Arduino UNO) is to be connected to "MCU2 - Pin 9".

"MCU1 - Pin 9" (Arduino UNO) is to be connected to "MCU2 - Pin 10".

Power(5V):

The LCD, Keypad Encoder, and other components like the toggle switch are powered by a +5V source and grounded. Basically, other than the connections to the Arduino as mentioned. The 16 key Keypad is connected to the keypad encoder, the potentiometer is connected to the LCD