

Bus pin-out:

1-8: Ground
73-80: +5V

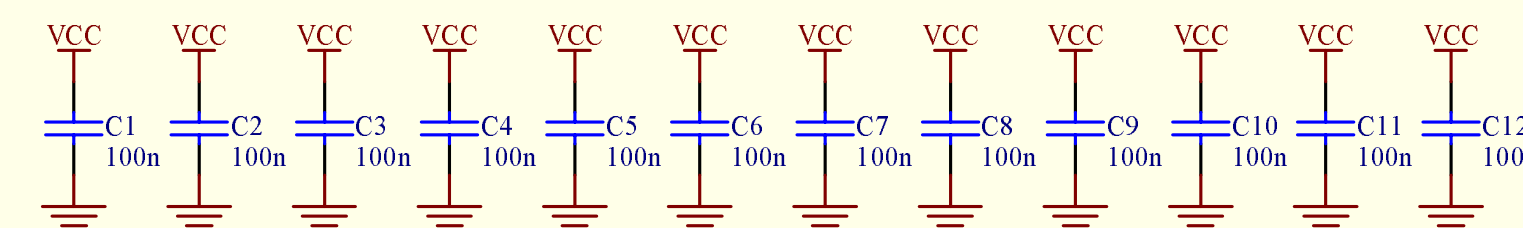
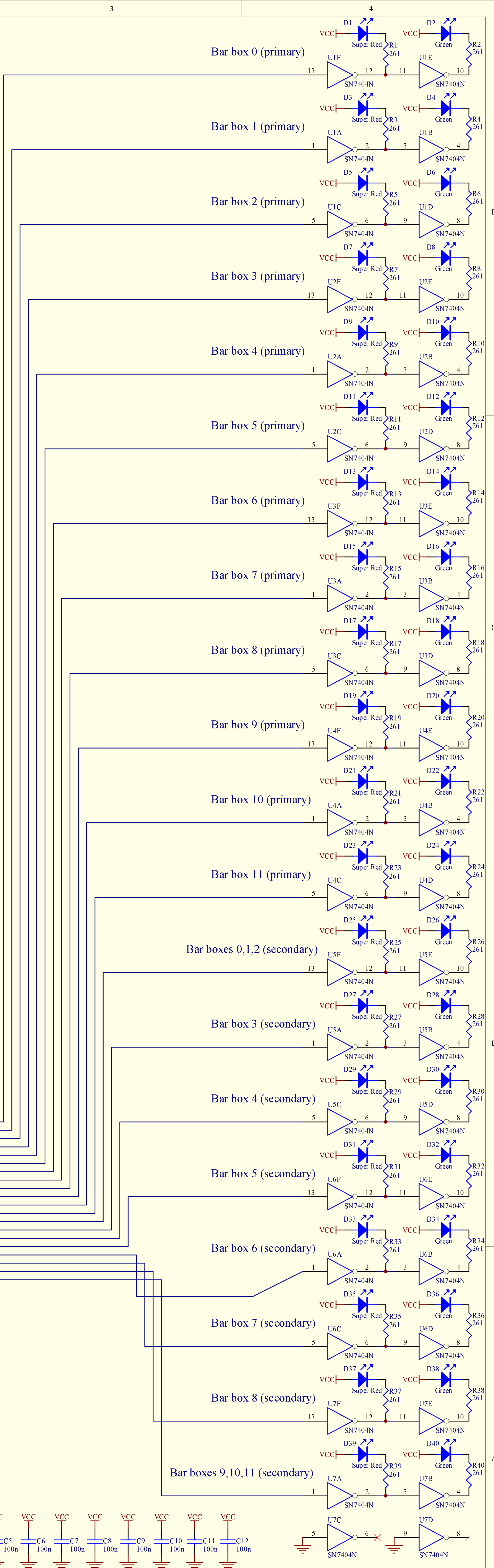
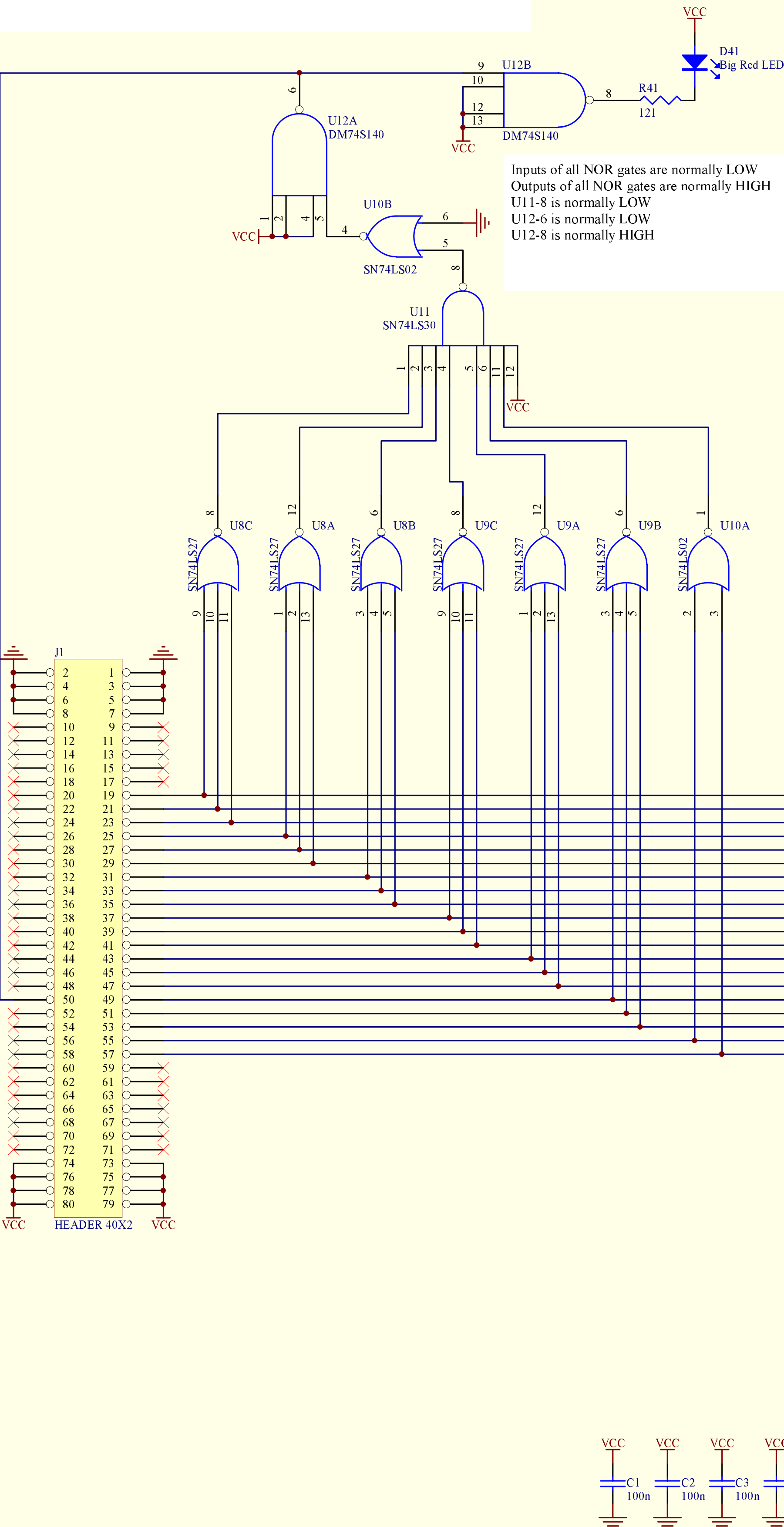
- 11: Power presence check (VCC in Rack #5)
- 13: Broken water sensor cable (normally LOW)
- 15: Ultrasonic water detector for bar boxes #0,1,2,3,4,5 (normally LOW)
- 17: Ultrasonic water detector for bar boxes #6,7,8,9,10,11
- 19: Primary water sensor in bar box #0 (normally LOW)
- 21: Primary water sensor in bar box #1
- 23: Primary water sensor in bar box #2
- 25: Primary water sensor in bar box #3
- 27: Primary water sensor in bar box #4
- 29: Primary water sensor in bar box #5
- 31: Primary water sensor in bar box #6
- 33: Primary water sensor in bar box #7
- 35: Primary water sensor in bar box #8
- 37: Primary water sensor in bar box #9
- 39: Primary water sensor in bar box #10
- 41: Primary water sensor in bar box #11
- 43: Secondary water sensor for bar boxes #0,1,2
- 45: Secondary water sensor for bar box #3
- 47: Secondary water sensor for bar box #3
- 49: Secondary water sensor for bar box #3
- 51: Secondary water sensor for bar box #3
- 53: Secondary water sensor for bar box #3
- 55: Secondary water sensor for bar box #3
- 57: Secondary water sensor for bar boxes #9,10,11

- 12: Humidity discriminator output for bar box #0 (normally LOW)
- 14: Humidity discriminator output for bar box #1
- 16: Humidity discriminator output for bar box #2
- 18: Humidity discriminator output for bar box #3
- 20: Humidity discriminator output for bar box #4
- 22: Humidity discriminator output for bar box #5
- 24: Humidity discriminator output for bar box #6
- 26: Humidity discriminator output for bar box #7
- 28: Humidity discriminator output for bar box #8
- 30: Humidity discriminator output for bar box #9
- 32: Humidity discriminator output for bar box #10
- 34: Humidity discriminator output for bar box #11

- 38: 0 out of 4 sensors in all 12 bar boxes (normally LOW)
- 40: There is a bar box with trouble in 1 out of 4 sensors (normally LOW)
- 42: There is a bar box with trouble in 2 out of 4 sensors (normally LOW)
- 44: There is a bar box with trouble in 3 out of 4 sensors (normally LOW)
- 46: There is a bar box with trouble in 4 out of 4 sensors (normally LOW)
- 50: At least 1 out of 20 water sensors is sensing liquid water (normally LOW)
- 52: At least 1 out of 12 humidity discriminators is over threshold (normally LOW)
- 54: VCCs differ by more than 0.25V (normally LOW)
- 56: VCCs differ by more than 0.5V (normally LOW)
- 58: VCC in Rack 5 is below 3.5V, i.e. is effectively off (normally LOW)
(this assumes that VCC in Rack 38 is 5.0V)

For pins 59, 60, 61, 62, 63, 64, 66, 67, 68, 69, 70 please see the schematic diagram for BATMAN-5

Pins 9,10,71,72 are not connected to the bus
Pins 36,48,65 are currently not in use



Title BATMAN-2: LED board for monitoring status of water sensors		
Size Letter	Number Created by Sasha Telnov (avtelnov@lbl.gov)	Revision 1.6
Date: 20-Sep-1998	Drawn of:	Sheet of:
File: G:\telnov\protel\batman2_06cy.Sch	Drawn By:	