



Input to Breakout Arduino	
Barrel Jack From Bus	12V

5V Eastern Rail			
D27	N/C	N/C	N/C
D29	N/C	N/C	N/C
D31	Motor S1	N/C	N/C
D33	Motor S2	N/C	N/C
D35	Encoder S1	N/C	N/C
D37	Encoder S2	N/C	N/C
D39	Range Sensor S6	N/C	N/C
D41	Range Sensor S5	N/C	N/C
D43	Range Sensor S4	N/C	N/C
D45	Range Sensor S3	N/C	N/C
D47	Range Sensor S2	N/C	N/C
D49	Range Sensor S1	N/C	N/C

Upper S single Pin Line	
SCL	LCD
SDA	LCD
AREF	LCD
GND	LCD
13	LCD
12	N/C
11	N/C
10	N/C
9	N/C
8	N/C
7	N/C
6	N/C
5	N/C
4	N/C
3	N/C
2	N/C
1	LCD
0	LCD

Lower S single Pin Line	
IOREF	N/C
RESET	LCD
3.3V	LCD
5V	LCD
GND	LCD
GND	LCD
Vin	N/C
A0	N/C
A1	N/C
A2	N/C
A3	N/C
A4	N/C
A5	N/C

5V Southern Analog Rail			
2	Signal From Sensor 1	Board 5V	Board Ground
3	Signal From Sensor 2	Board 5V	Board Ground
4	Signal From Sensor 3	Board 5V	Board Ground
5	Signal From Sensor 4	Board 5V	Board Ground
6	Signal From Sensor 5	Board 5V	Board Ground
7	Signal From Sensor 6	Board 5V	Board Ground
8	N/C	N/C	N/C
9	N/C	N/C	N/C
10	N/C	N/C	N/C
11	N/C	N/C	N/C
12	N/C	N/C	N/C
13	N/C	N/C	N/C
14	Current Monitor 1	Board 5V	Board Ground
15	Current Monitor 2	Board 5V	Board Ground