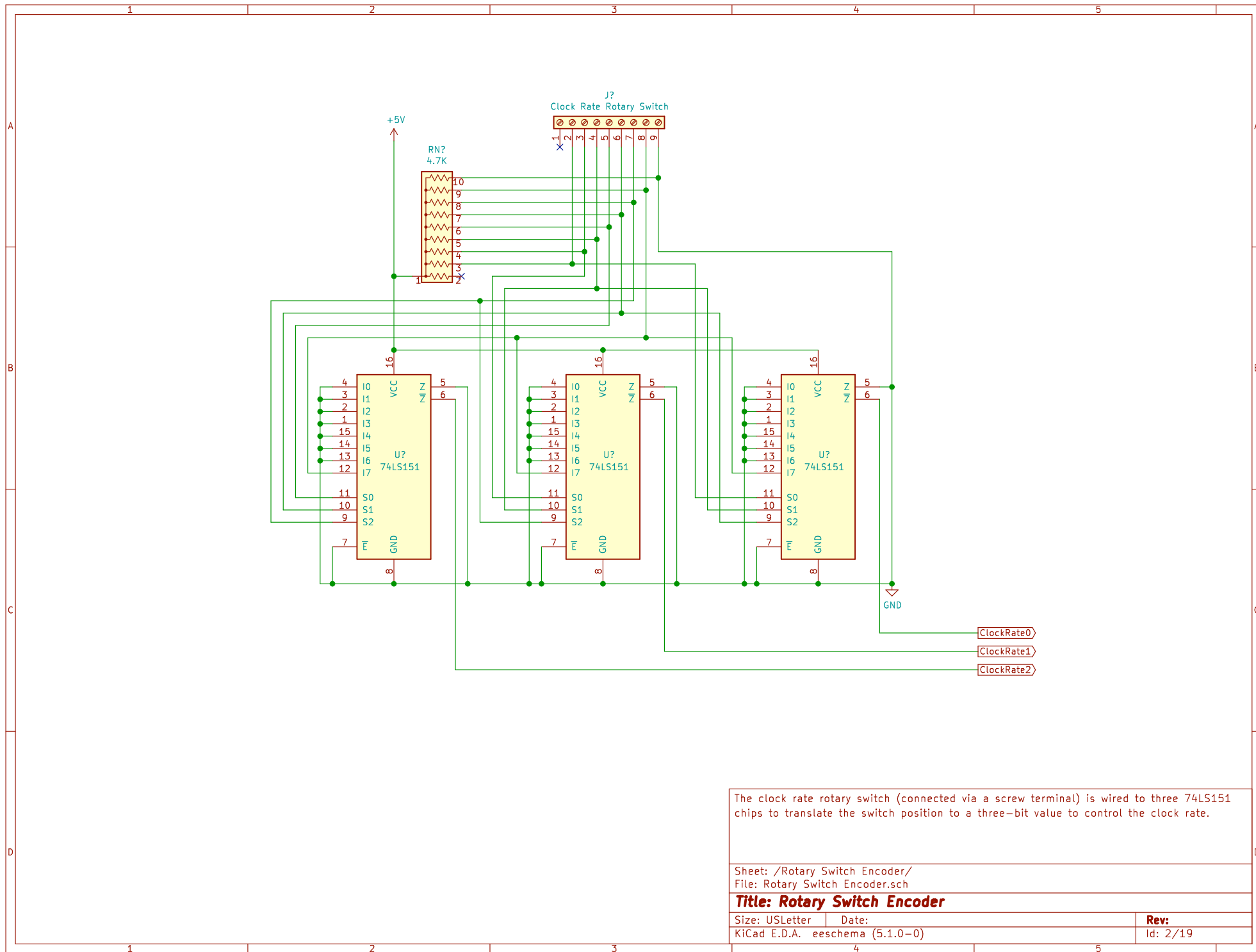


	1	2	3	4	5	
A			Sheet: Rotary Switch Encoder <div></div> File: Rotary Switch Encoder.sch Sheet: Clock <div></div> File: Clock.sch Sheet: Program Counter <div></div> File: Program Counter.sch Sheet: Instruction ROM <div></div> File: Instruction ROM.sch Sheet: Instruction Register <div></div> File: Instruction Register.sch Sheet: Instruction Decoder <div></div> File: Instruction Decoder.sch Sheet: Execute <div></div> File: Execute.sch Sheet: Control Word Display <div></div> File: Control Word Display.sch	Sheet: Output Display <div></div> File: Output Display.sch Sheet: Register D <div></div> File: Register D.sch Sheet: Register A <div></div> File: Register A.sch Sheet: ALU <div></div> File: ALU.sch Sheet: Register B <div></div> File: Register B.sch Sheet: Transfer Register <div></div> File: Transfer Register.sch Sheet: Data RAM <div></div> File: Data RAM.sch Sheet: Bus Display <div></div> File: Bus Display.sch		
B		Sheet: Power-on Reset <div></div> File: Power-on Reset.sch Sheet: Instruction RAM <div></div> File: Instruction RAM.sch				
C						
D						
	1	2	3	4	5	

Sheet: / File: Firenze.sch		
Title: Firenze		
Size: A	Date:	Rev:
KiCad E.D.A. eeschema (5.1.0-0)		Id: 1/19



The clock rate rotary switch (connected via a screw terminal) is wired to three 74LS151 chips to translate the switch position to a three-bit value to control the clock rate.

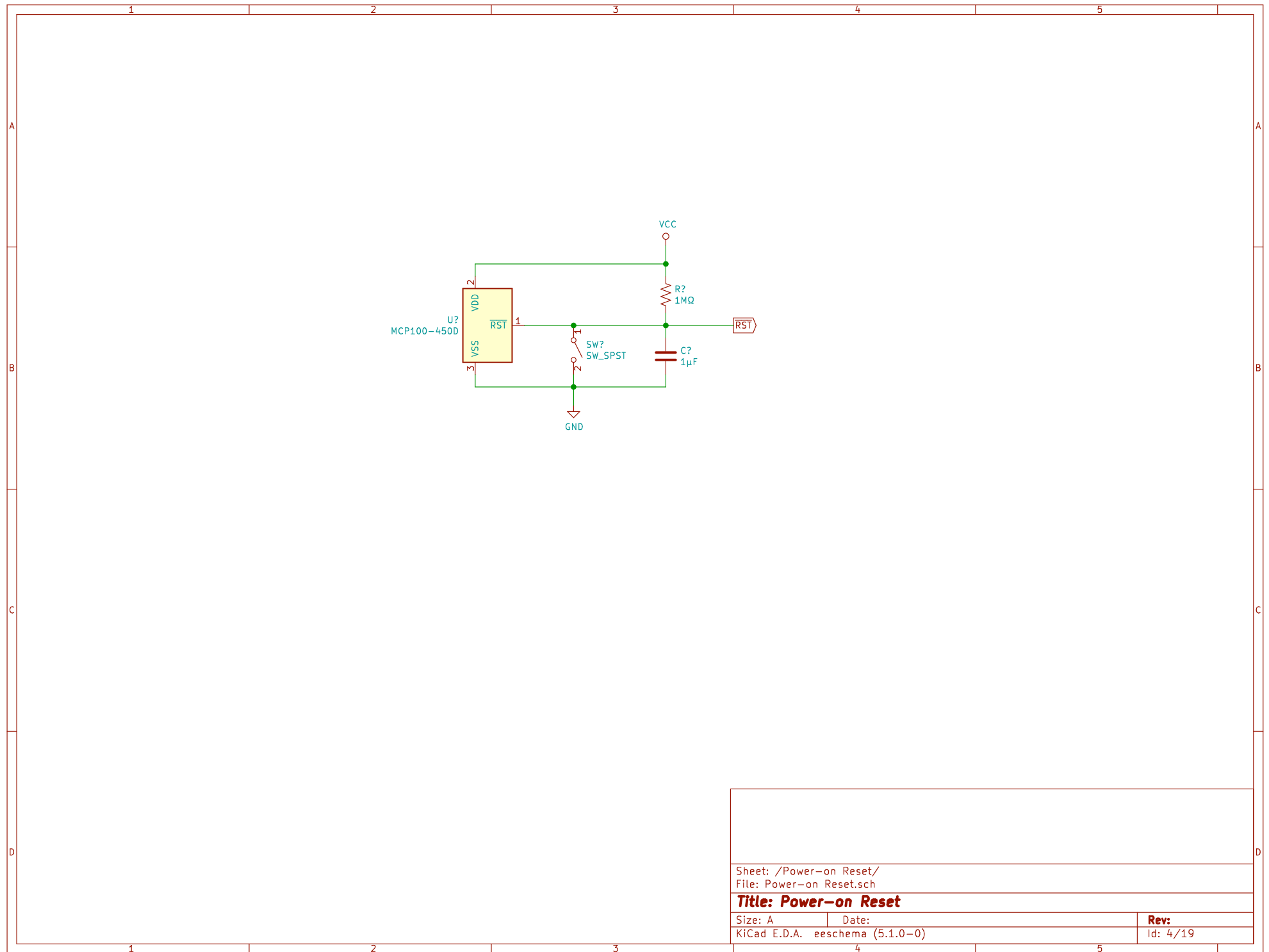
Sheet: /Rotary Switch Encoder/  
File: Rotary Switch Encoder.sch

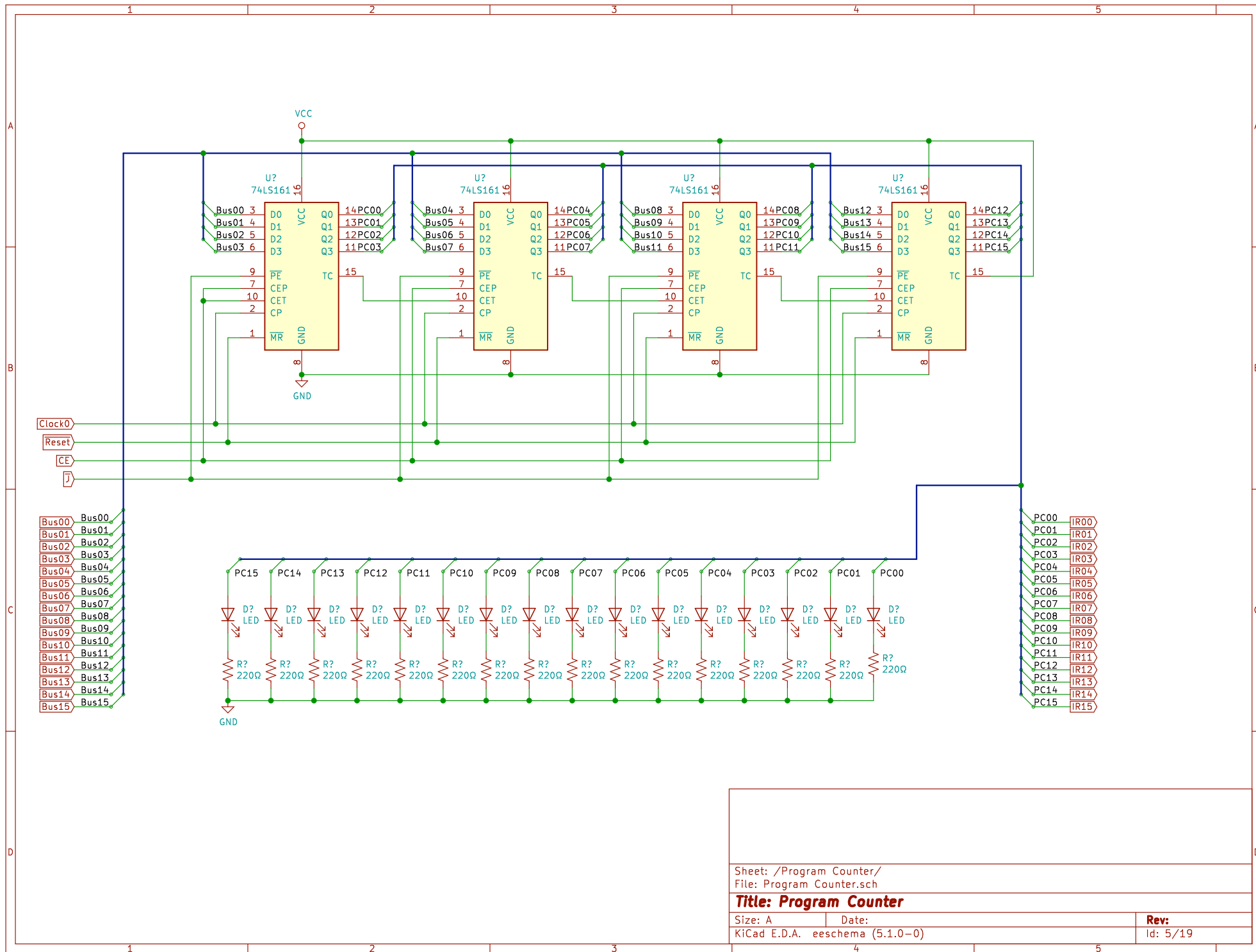
### Title: Rotary Switch Encoder

Size: USLetter Date:  
KiCad E.D.A. eeschema (5.1.0-0)

Rev:  
Id: 2/19







Sheet: /Program Counter/  
File: Program Counter.sch

**Title: Program Counter**

Size: A

Date:

KiCad E.D.A. eeschema (5.1.0-0)

Rev:

Id: 5/19

1					2					3					4					5					
A																									A
B																									B
C																									C
D																									D
1					2					3					4					5					

Sheet: /Instruction ROM/  
File: Instruction ROM.sch

Title: **Instruction ROM**

Size: ADate:

KiCad E.D.A. eeschema (5.1.0-0)

Rev:  
Id: 6/19

Sheet: /Instruction ROM/ File: Instruction ROM.sch	
<b>Title: Instruction ROM</b>	
Size: A	Date:
KiCad E.D.A. eeschema (5.1.0-0)	
Id: 6/19	

1					2					3					4					5					
A																									A
B																									B
C																									C
D																									D
1					2					3					4					5					

Sheet: /Instruction RAM/  
File: Instruction RAM.sch

**Title: Instruction RAM**

Size: A

Date:

KiCad E.D.A. eeschema (5.1.0-0)

Rev:

Id: 7/19

Sheet: /Instruction RAM/		
File: Instruction RAM.sch		
<b>Title: Instruction RAM</b>		
Size: A	Date:	Rev:
KiCad E.D.A. eeschema (5.1.0-0)		Id: 7/19

1					2					3					4					5					
A																									A
B																									B
C																									C
D																									D
1					2					3					4					5					

Sheet: /Instruction Decoder/  
File: Instruction Decoder.sch

Title: **Instruction Decoder**

Size: ADate:

KiCad E.D.A. eeschema (5.1.0-0)

Rev:  
Id: 8/19

Sheet: /Instruction Decoder/  
File: Instruction Decoder.sch

Title: **Instruction Decoder**

Size: A	Date:	Rev:
KiCad E.D.A. eeschema (5.1.0-0)		Id: 8/19



1					2					3					4					5					
A																									A
B																									B
C																									C
D																									D
1					2					3					4					5					

Sheet: /Execute/  
File: Execute.sch

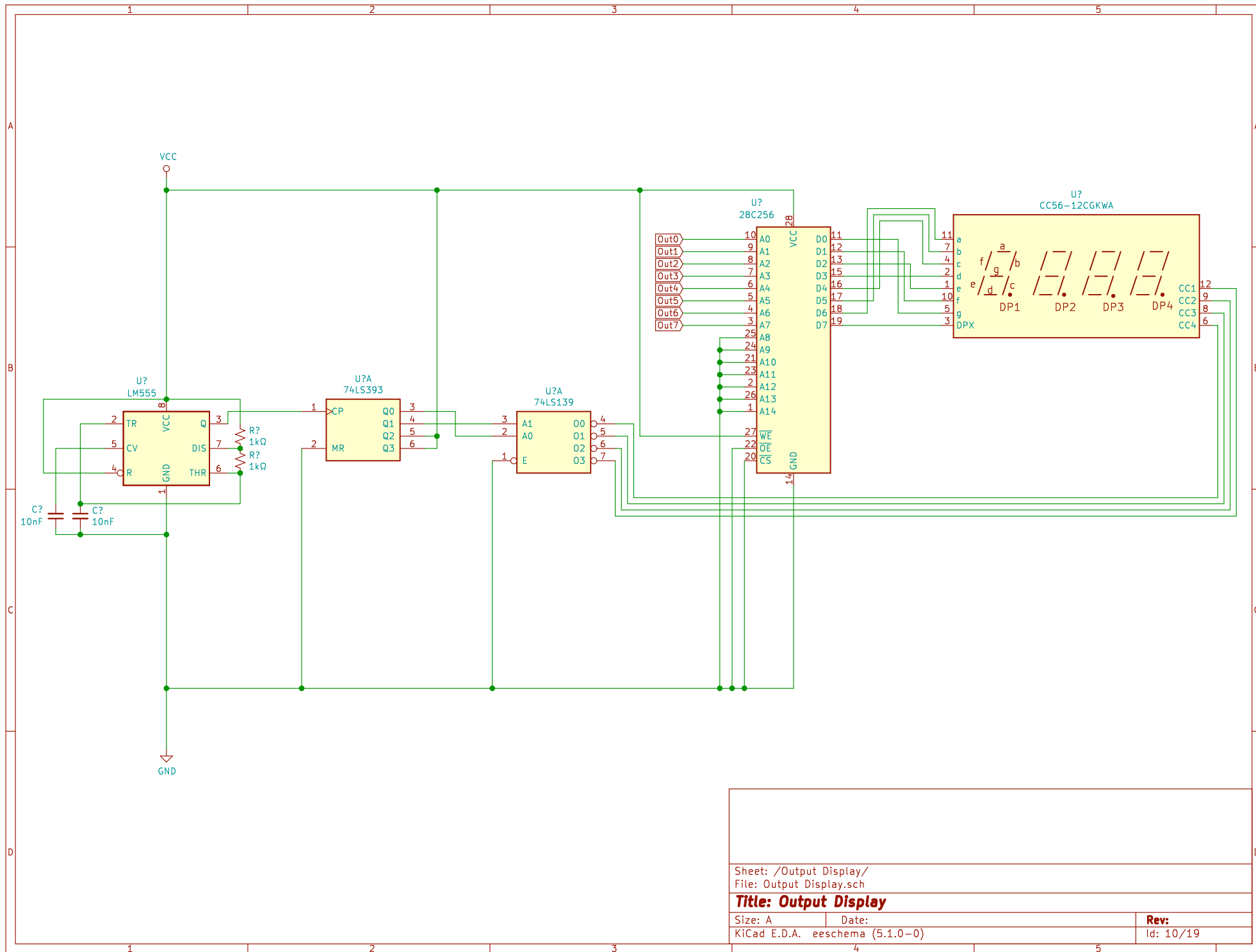
Title: Execute

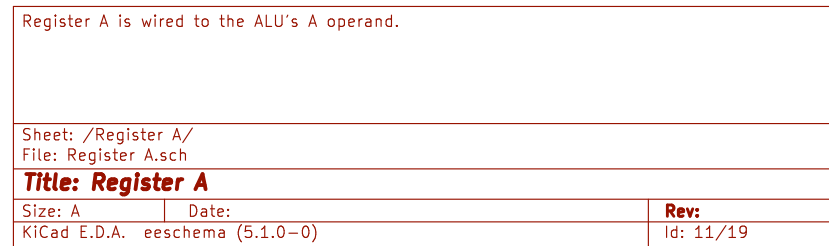
Size: ADate:

KiCad E.D.A. eeschema (5.1.0-0)

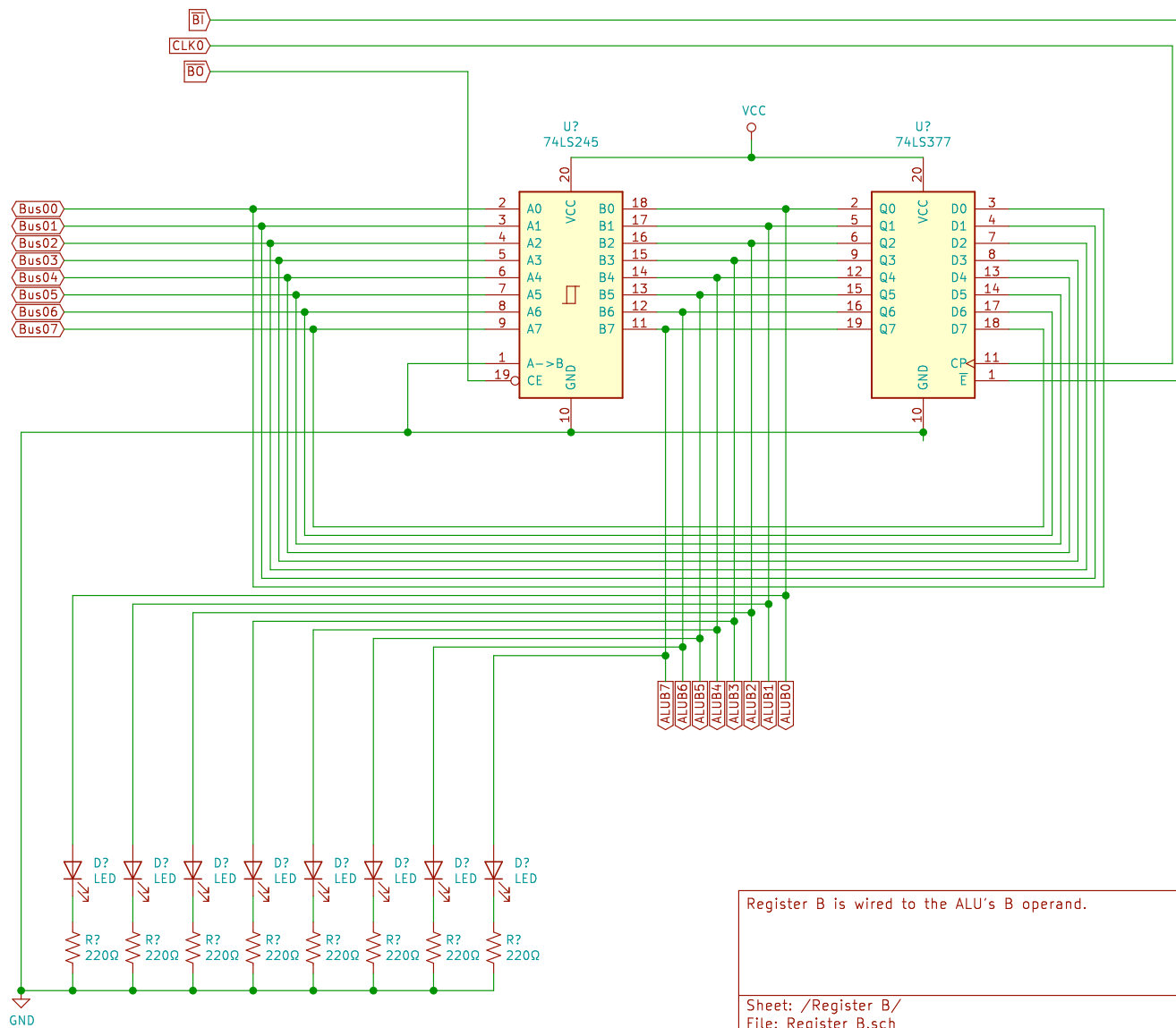
Rev:  
Id: 9/19

Sheet: /Execute/		
File: Execute.sch		
Title: Execute		
Size: A	Date:	Rev:
KiCad E.D.A. eeschema (5.1.0-0)		Id: 9/19









Register B is wired to the ALU's B operand.

Sheet: /Register B/  
File: Register B.sch

### Title: Register B

Size: A Date:  
KiCad E.D.A. eeschema (5.1.0-0)

Rev:  
Id: 13/19

1					2					3					4					5					
A																									A
B																									B
C																									C
D																									D
1					2					3					4					5					

Sheet: /Transfer Register/  
File: Transfer Register.sch

**Title: Transfer Register**

Size: A

Date:

KiCad E.D.A. eeschema (5.1.0-0)

Rev:

Id: 14/19

Sheet: /Transfer Register/  
File: Transfer Register.sch

Title: Transfer Register

Size: A	Date:	Rev:
KiCad E.D.A. eeschema (5.1.0-0)		Id: 14/19

1					2					3					4					5					
A																									A
B																									B
C																									C
D																									D
1					2					3					4					5					

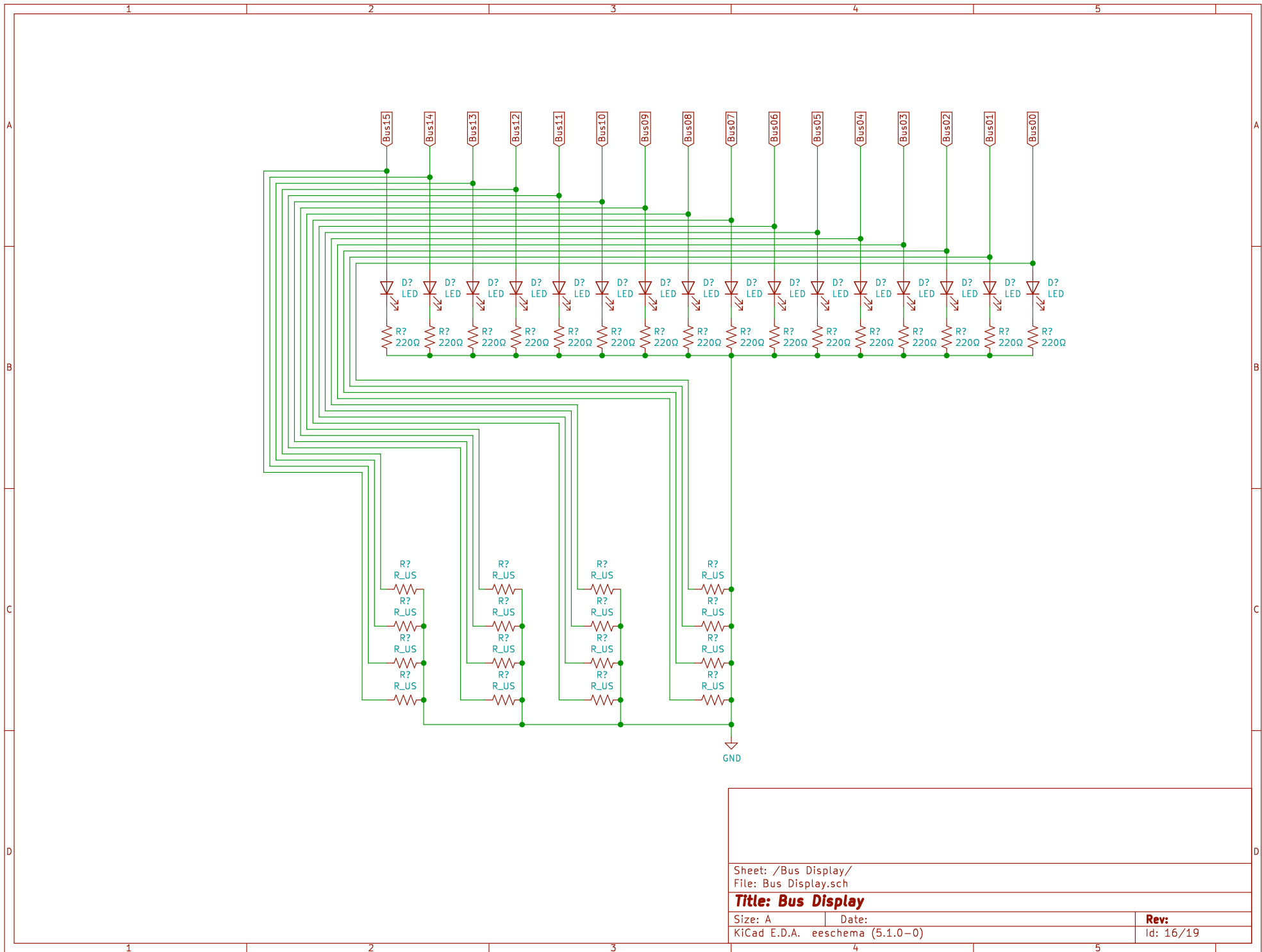
Sheet: /Data RAM/  
File: Data RAM.sch

**Title: Data RAM**

Size: ADate:KiCad E.D.A. eeschema (5.1.0-0)

Rev:Id: 15/19

Sheet: /Data RAM/		
File: Data RAM.sch		
Title: Data RAM		
Size: A	Date:	Rev:
KiCad E.D.A. eeschema (5.1.0-0)		Id: 15/19



Sheet: /Bus Display/ File: Bus Display.sch		
<b>Title: Bus Display</b>		
Size: A	Date:	Rev:
KiCad E.D.A. eeschema (5.1.0-0)		Id: 16/19



1					2					3					4					5					
A																									A
B																									B
C																									C
D																									D
1					2					3					4					5					

Sheet: /Control Word Display/  
File: Control Word Display.sch

Title: Control Word Display

Size: ADate:

KiCad E.D.A. eeschema (5.1.0-0)

Rev:  
Id: 17/19

Sheet: /Control Word Display/  
File: Control Word Display.sch

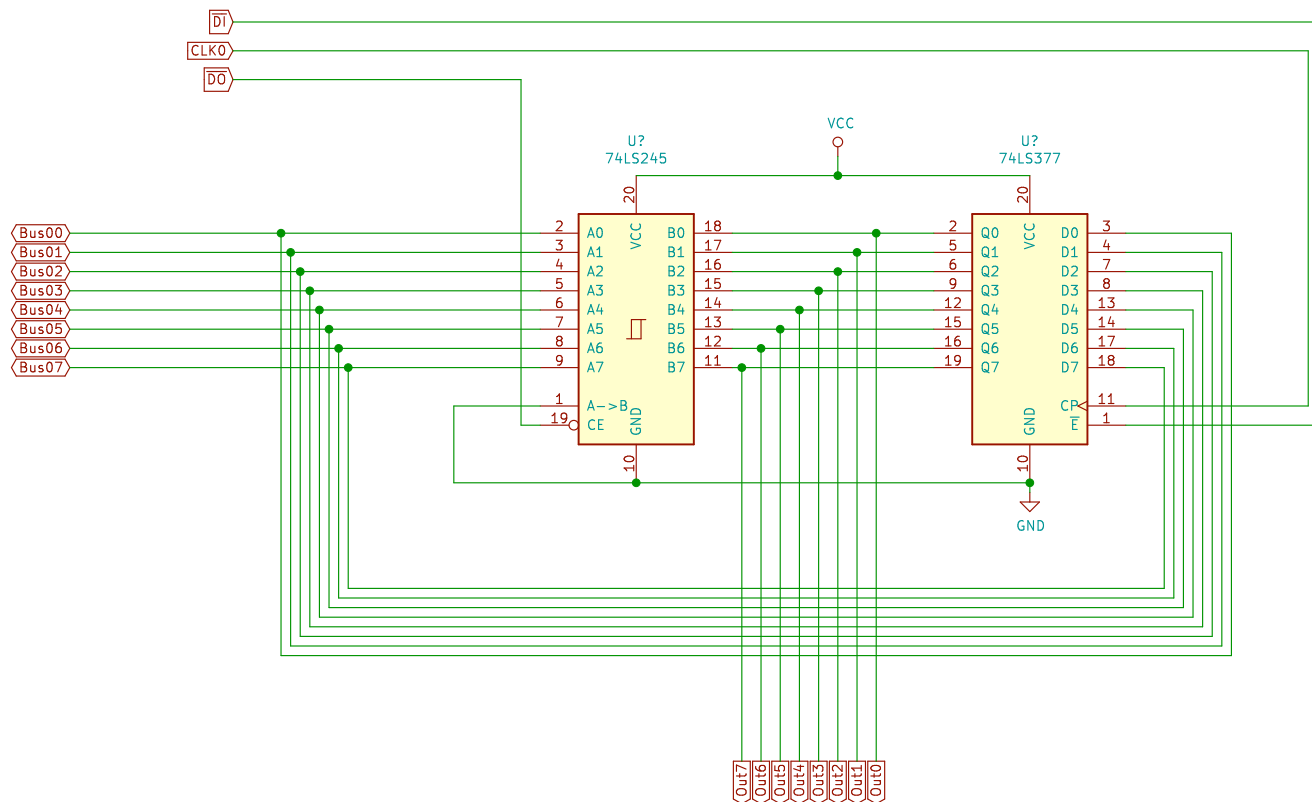
**Title: Control Word Display**

Size: A	Date:	Rev:
KiCad E.D.A. eeschema (5.1.0-0)		Id: 17/19

1					2					3					4					5					
A																									A
B																									B
C																									C
D																									D
1					2					3					4					5					

Sheet: /Instruction Register/ File: Instruction Register.sch																								
<b>Title: Instruction Register</b>																								
Size: A												Date:												Rev:
KiCad E.D.A. eeschema (5.1.0-0)												Id: 18/19												

Sheet: /Instruction Register/ File: Instruction Register.sch									
Title: <b>Instruction Register</b>									
Size: A					Date:				
KiCad E.D.A. eeschema (5.1.0-0)								Rev:	
								Id: 18/19	



Register D is wired directly to the Output Display Module.

Sheet: /Register D/ File: Register D.sch		
<b>Title: Register D</b>		
Size: A	Date:	Rev:
KiCad E.D.A. eeschema (5.1.0-0)		Id: 19/19