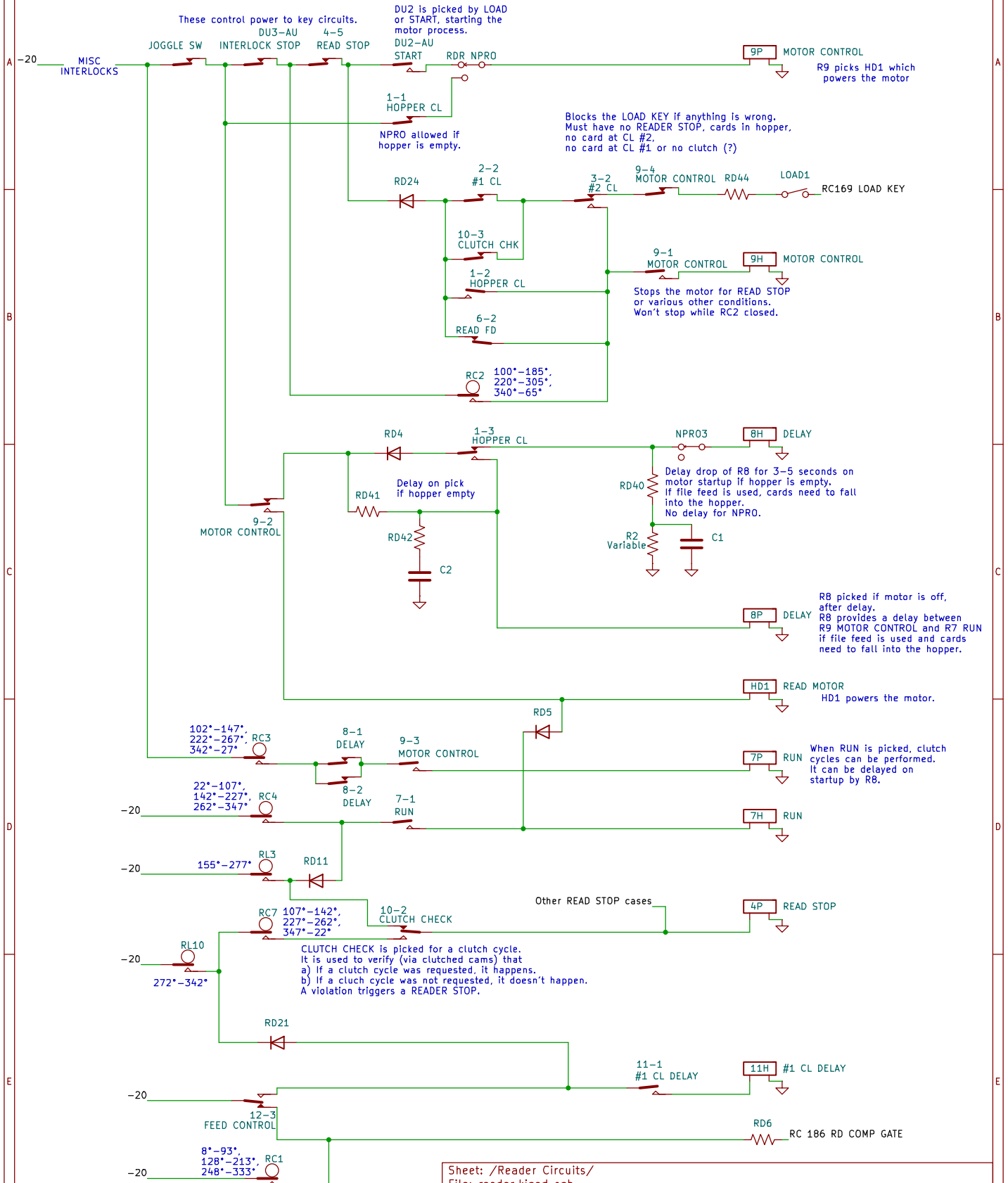


These are miscellaneous cam-controlled reader circuits.



Sheet: /Reader Circuits/
File: reader.kicad_sch

Title: IBM 1402 Reader Circuits

Size: USLetter

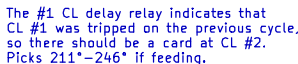
Date: 2024-02-28

Rev: 0.2

Ken Shirriff

Id: 1/4

F



Contact 12-2 ensures that CL #1, CL #2, CLUTCH CHECK are tested when the machine is idle, but controlled by RC8 when the machine is feeding.

The card lever relays are picked when the corresponding card lever detects a card.
155°-185°, 242°-307°

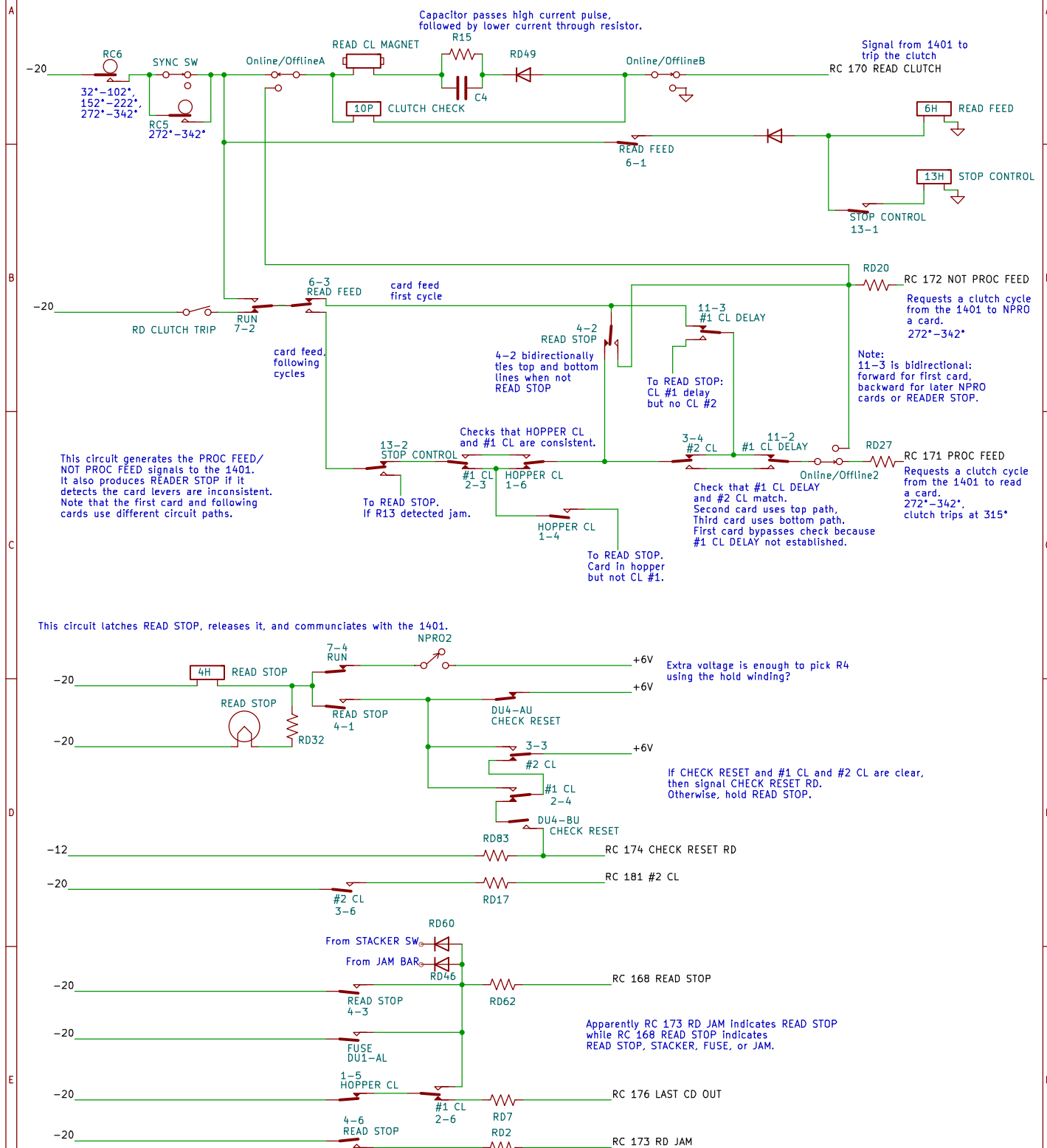
R13 STOP CONTROL / JAM DETECT.
Triggers on CL #1 or CL #2 during 155°-185° test.
Causes a READ STOP.
CE Manual says R13 triggered by clutch check,
but the circuitry seems to have changed.

READ FEED indicates that a feed is happening,
i.e. a clutch cycle.
Pick 155°-277° via RL3.
Hold at 272° via RC5.
Dropped at 342° by RC5/RC6.

FEED CONTROL happens during a feed.
Picked 185°–225° by RC9, then to 277° by RL3.
It controls when various things are checked.

In OFFLINE mode, FEED signals trip the clutch directly instead of going through the 1401:

1. PROC FEED generates NOT PROC FEED instead.
2. NOT PROC FEED drives one side of the clutch magnet.
3. The other side of the clutch magnet is grounded.



Size: USLetter	Date: 2024-02-28
Ken Shirriff	

Rev: 0.2
Id: 3/4

	1	2	3	4
A	<div>Card Levers, Feed, Stop</div> <div>These approximately correspond to page 3A,4A</div> <div>File: cl.kicad_sch</div>		<div>Clutch, Read Stop circuits</div> <div>These approximately correspond to page 6,7</div> <div>File: clutch.kicad_sch</div>	
B				
C				
D				
E				
<div>Sheet: / File: 1402-schematics.kicad_sch</div> <div><div>Title: IBM 1402 schematics – index</div><div>Size: USLetter Date: 2024-02-28 Rev: 0.2</div><div>Id: 4/4</div></div>				
	1	2	3	4