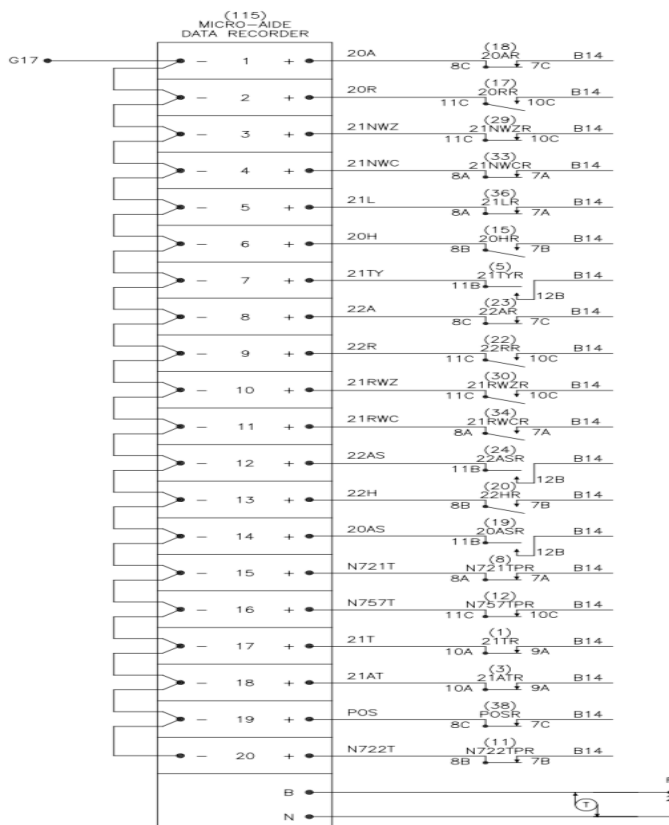


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SacRT utilizes *Micro-Aide* direct input event recorders at the 30 series switch interlocking and at N21 switch interlocking. Downloads from the event recorder are downloaded in a text format either to a portable flash drive or to a Hyper Terminal, or compatible communication program equipped laptop computer.

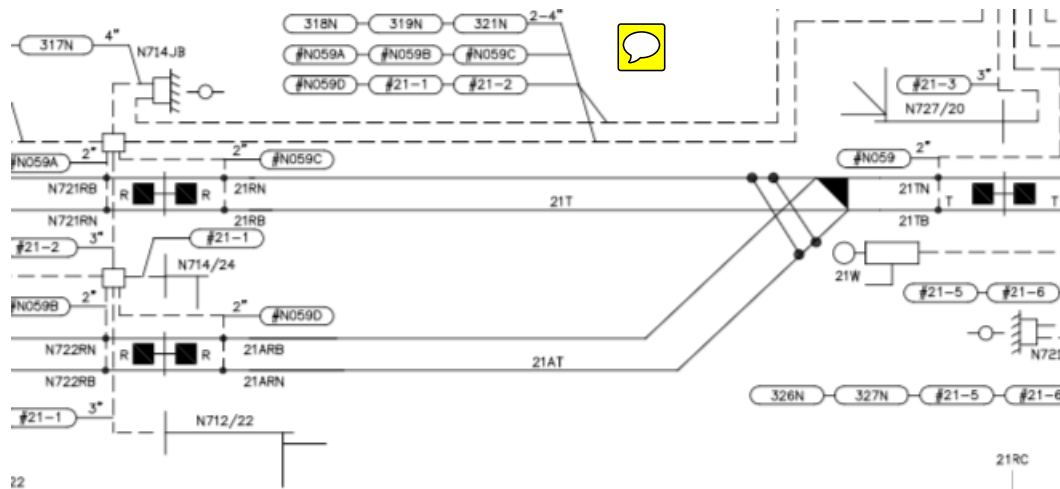
Interpretation of the download is accomplished by cross referencing downloaded bit information with the location specific event recorder informational schematic (example 1) and the location specific layout page (example 2). Both are contained in the location prints.

Example 1: location specific event recorder informational schematic



Example 2: location specific Layout page

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Each input is numbered as “D1-24”. Bits are usually named after their corresponding relays. Some inputs are normally energized and some inputs are normally de-energized. Bits are recorded when their normal state is changed. Recorded bits are date and time stamped and labeled as “pick” or “drop” to reflect the position of their corresponding relays. (Example 3) Pick is used to describe the relay as changing it’s state to being energized while drop is used to describe the relay as changing it’s state to being de-energized.

### Example 3: Downloaded bit information

20:00:16.974	08/22/19	N757TR	PICK	D16
20:04:54.799	08/22/19	20AR	PICK	D01
20:04:58.257	08/22/19	20RR	DROP	D02
20:04:59.586	08/22/19	20HR	DROP	D06
20:06:30.237	08/22/19	20ASR	PICK	D14
20:06:35.851	08/22/19	21LR	PICK	D05

In reading the above example we see that at the noted times:

- N757 Track Relay was energized
- 20 Approach Relay was energized
- 20 Route Relay was de-energized
- 20 Home Relay was de-energized

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- both the 20 Approach Stick Relay and the 21 Lock Relay were energized.

To clarify, “pick” and “drop” reflect the state of the corresponding relay and **not** whether or not the recording bit is energized.

#### **30 Series Interlocking terms:**

30AHR –HOME RELAY FOR SIGNAL 30 SIGNAL (SIG N553 GREEN ASPECT)  
30BHR –HOME RELAY FOR SIGNAL 30 SIGNAL (SIG N553 RED/YELLOW ASPECT)  
32HR –HOME RELAY FOR SIGNAL 32 (SIG N548)  
34HR –HOME RELAY FOR SIGNAL 34 (SIG N543)  
33TPR –TRACK REPEATER RELAY FOR SWITCH 33 (DETECTOR TRACK)  
35TYR –TRACK COMBINATION RELAY FOR SWITCH 35 (DETECTOR TRACK)  
N543XHR –HOME RELAY FOR SIGNAL N543 (YARD TO OUTBOUND TRACK)  
GDSR –GROUND DETECTOR STICK RELAY  
28A –APPROACH RELAY FOR 28 ROUTE  
32A –APPROACH RELAY FOR 32 ROUTE  
28BCLRSR –CLEAR 28B ROUTE STICK RELAY (INBOUND TRACK TO YARD)  
30ACLRSR –CLEAR 30A ROUTE STICK RELAY (OUTBOUND TRACK TO INBOUND TRACK)  
30BCLRSR –CLEAR 30B ROUTE STICK RELAY (OUTBOUND TRACK TO YARD)  
34CLRSR –CLEAR 34 ROUTE STICK RELAY (YARD TO OUTBOUND TRACK)  
33NWCR –NORMAL SWITCH CORRESPONDENCE RELAY FOR 33 SWITCHES  
33RWCR –REVERSE SWITCH CORRESPONDENCE RELAY FOR 33 SWITCHES  
35NWCR –NORMAL SWITCH CORRESPONDENCE REPEATER RELAY FOR SWITCH 35  
35RWCR –REVERSE SWITCH CORRESPONDENCE RELAY FOR SWITCH 35  
28AHR –HOME RELAY FOR SIGNAL 28 (SIG N555 YELLOW ASPECT)  
28BHR –HOME RELAY FOR SIGNAL 28 (SIG N555 RED/YELLOW ASPECT)

#### **Switch 21 Interlocking terms:**

20AR -APPROACH RELAY FOR 20 ROUTE  
20RR -ROUTE RELAY FOR 20 ROUTE (INBOUND SINGLE TRACK TO DOUBLE TRACK)  
21NWZR -NORMAL SWITCH REQUEST RELAY FOR SWITCH 21  
21NWCR -NORMAL SWITCH CORRESPONDENCE RELAY FOR SWITCH 21  
21LR -LOCK RELAY FOR SWITCH 21  
20HR -HOME RELAY FOR 20 SIGNAL (SIG N727)  
22HR -HOME RELAY FOR 22 SIGNAL (SIG N712)  
21TYR -DETECTOR TRACK COMBINATION RELAY  
22AR -APPROACH RELAY FOR THE 22 ROUTE  
22RR -ROUTE RELAY FOR THE 22 ROUTE (OUTBOUND DOUBLE TRACK TO SINGLE TRACK)  
21RWZR -REVERSE SWITCH REQUEST RELAY FOR SWITCH 21  
21RWCR -REVERSE CORRESPONDENCE RELAY FOR SWITCH 21  
22ASR -APPROACH STICK RELAY FOR 22 SIGNAL (SIG N712)  
20ASR -APPROACH STICK RELAY FOR 20 SIGNAL (SIG N727)

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N721TPR -N721 TRACK REPEATER RELAY

N722TPR -N722 TRACK REPEATER RELAY

21TR -DETECTOR TRACK SWITCH 21

21ATR -'A' DETECTOR TRACK SWITCH 21

POSR -POWER OFF STICK RELAY