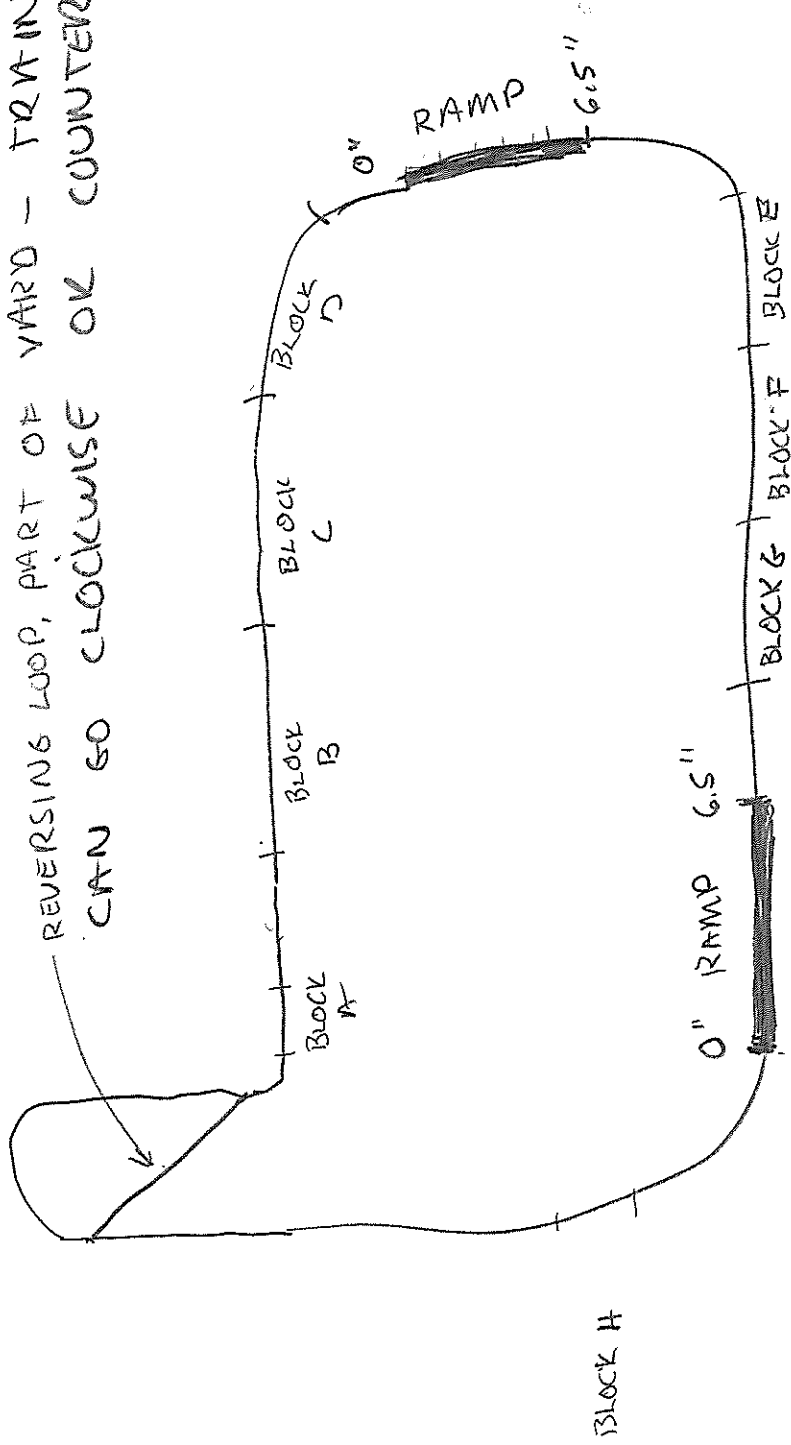


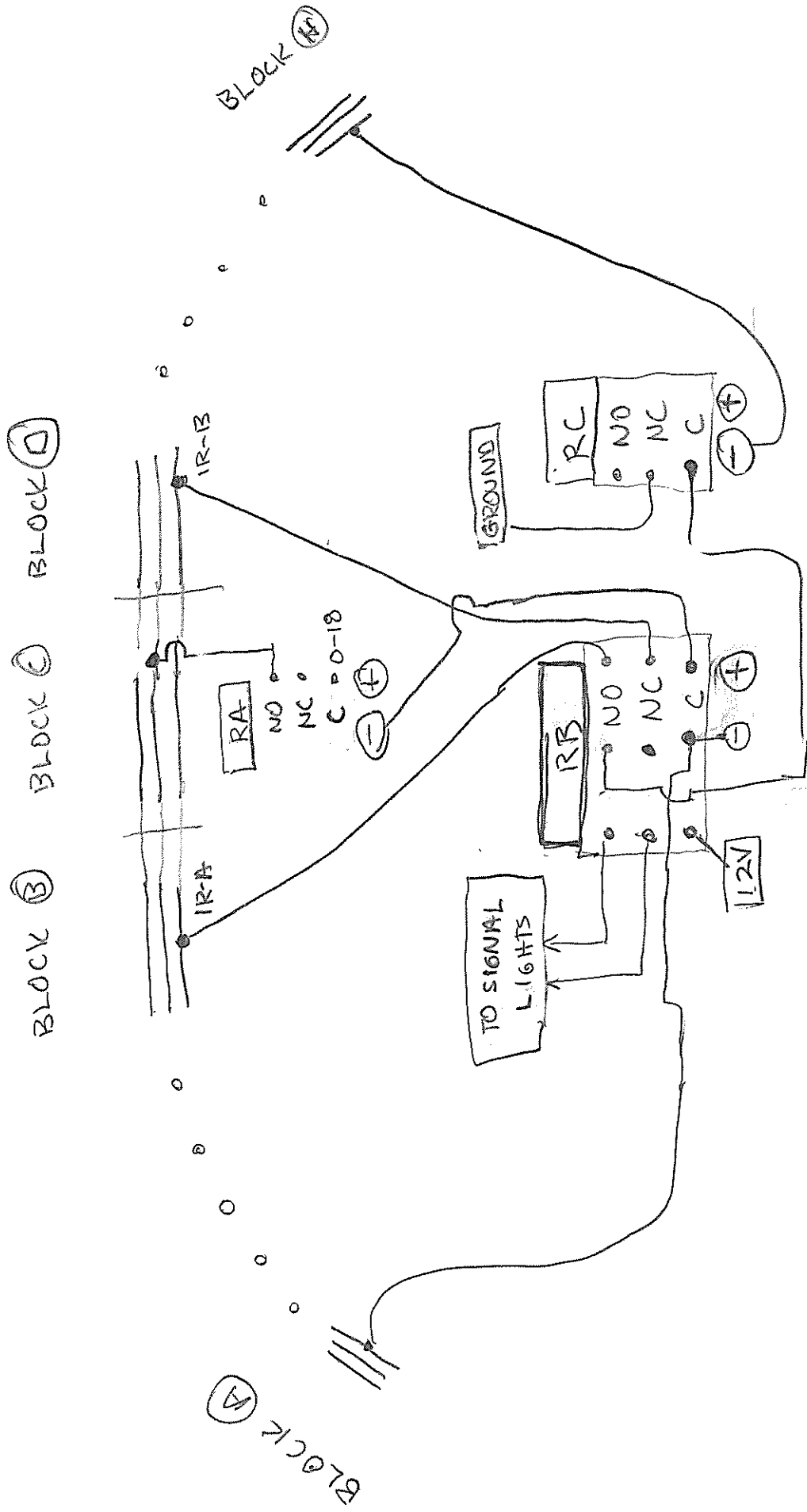
(A) SIMPLIFIED VERSION OF LAYOUT

REVERSING LOOP, PART OF YARD - TRAINS CAN GO CLOCKWISE OR COUNTER CLOCKWISE



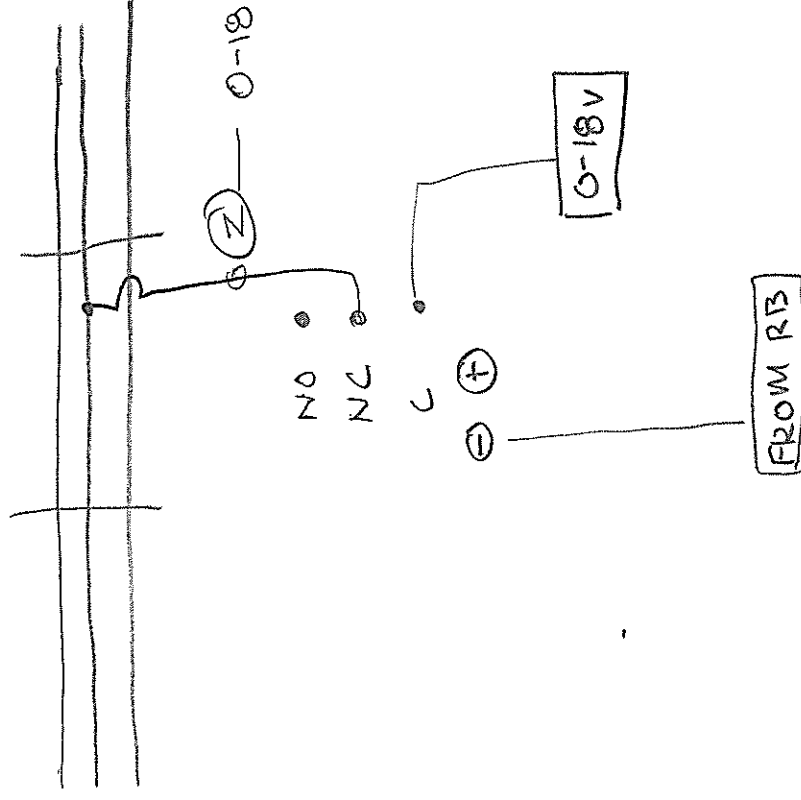
- LONG LOOP - 90' WITH LENGTH, 2
- RAMP, RISK OF TRAINS CATCHING UP!
- TRAINS CAN GO CLOCKWISE OR COUNTER CLOCKWISE!
- BLOCKS B, C, D, E CAN BE LONG: ±10'

# B1 - DIRECTIONAL BLOCK CONTROL



- ASSUME RELAYS ARE AC COMPATIBLE - BUILT IN RECTIFIERS
- SEE NEXT PAGE FOR RA DETAIL
- RB IS 3PDT SELF LATCHING; RC IS SPDT
- BLOCKS (A) AND (B) EFFECTIVELY SELECT IR-A OR IR-B AS CONTROL RAIL; CAN CONNECT INSULATED RAILS IN BLOCKS (C, F, G) AS WELL

# RELAY A



- SPDT RELAY - NOT SELF LATCHING
- SHOWS POWER OFF BUT WILL USE RESISTORS TO DEAL WITH REVERSING FEATURE IN LOCOMOTIVES
- ② = SPDT TOGGLE TO OVERRIDE BLOCK CONTROL

(D)

## COMMENTS

- SIGNAL LIGHTS: RB SETS TO RED/GREEN
- RAMP: ADD RESISTANCE TO SLOW TRAINS ON DOWN RAMP AS DETERMINED BY DIRECTION. RB BECOMES 4PDT
- SWITCH TO TURN OFF BLOCK CONTROL = (2) ON DIAGRAM C.