

Budd RDC

WIRING DIAGRAMS

FOR AMTRAK RDC'S

CREATED AT READING SHOPS

IN 1973

Page	
61	Fuses + Circuit Breakers
2	Battery + Battery Box
3	Device wiring "B" End Electrical cabinets
4	Fireman's + Engineers Fuse Blocks "B" Cab
5	Device wiring Electrical cabinets "B" cab
6	Device wiring Electrical cabinets "B" Cab
7	Lamp Regulator wiring "B" cab
8	Lamp Regulator + Main Circuit Breaker
9	Throttle Relays wiring "B" cab
10	Sanding Equipment "B" cab
11	Terminal Boards "B" Electrical cabinets
12	Engineers switches "B" Cab
13	Controller Receptacle + Plug wiring "B" Cab
14	Controller wiring Before Revision "B" Cab
15	Revised Controller wiring "B" cab
16	Fuses + Breaker wiring in Air Cond. Cabinet
17	Headlight circuits "B" End
18	Cab Ceiling Lights "B" End
19	Gauge Lights "B" End
20	Classification Lights "B" End
21	NO. Light Circuit "B" End
22	Air Condition + Floor Heat Panel
23	Air Condition compressor Control Panel
24	Air Condition comp. Control Panel Internal
25	Condenser + Compressor Units
26	Air Condition Low Pressure switch + Start Button
27	Floor + Overhead Heat Symbols + charts
28	Overhead + Floor Heat wiring Diagram
29	Circulating Pumps wiring Diagram
30	Overhead Circulating Fan Motor
31	Cooling Thermostats
32	Cooling + Heating Thermostat connections
33	A + B cab Plug switch wiring
34	Speedometer Panels A + B cabs
35	A + B Voltage Regulator connection Diagram
36	A + B Overhead Pull Box Terminal Boards
37	Cab Heater circuits A + B cabs
38	Lighting + outlets circuits part one
39	Lighting + outlets circuits part two

- 40 A+B Headlight Schematic
- 41 Control Circuits Schematic Diagram Part One
- 42 Control Circuits Schematic Diagram Part Two
- 43 Engineers Buzzer Circuits A+B Cabs
- 44 Generator Pilot Lights A+B Cabs
- 45 Power Knockout + Plug switches wired wrong
- 46 Power Knockout + Plug switches wired right
- 47 Controller A+B Cabs Schematics
- 48 NO. 1 Engine Throttle Clutch Solenoids
- 49 NO. 2 Engine Throttle Clutch Solenoids
- 50 Engine Stop Circuits A Cab B-30 Type
- 51 Engine Stop Circuits B Cab B-30 Type
- 52 Train Line Engine Stop Circuits
- 53 Forward + Reverse Controller Circuits
- 54 Sanding Circuits B-30 class
- 55 Sanding Circuits B-32 class
- 56 Radiator Fan Motors + Thermostats + Revolving Red Light connections
- 57 Radiator Fan Motors Schematic Diagram B-30
- 58 Radiator Fan Thermostat Schematic B-30
- 59 Revolving Red Light
- 60 Air Pressure Sanding Switch
- 61 Device Wiring "A" Cab 1
- 62 Device Wiring "A" Cab 2
- 63 Device Wiring "A" Cab 3
- 64 Fireman's + Engineers Cab Heater Fuse Blocks
- 65 NO. 1 + NO. 2 Fan Panels Wiring Internal
- 66 NO. 1 Fan Panel Wiring External
- 67 NO. 2 Fan Panel Wiring External
- 68 Radiator Fan Motor Schematic B-31+32
- 69 Radiator Fan Thermostats Schematic B-31+32
- 70 Air Compressor Control Panel Internal
- 71 Air Compressor Control Schematic
- 72 Air Brake Compressor Motor + Control Wiring
- 73 "A" Cab Engineers Switch Wiring
- 74 Controller Receptacle + Plug Wiring "A" End
- 75 Controller Wiring "A" Cab
- 76 Headlight Circuits "A" Cab
- 77 Cab Ceiling Lights "A" Cab
- 78 Gauge Lights "A" Cab

- 79 Classification Lights "A" Cab
- 80 No. Lights Circuits "A" Cab
- 81 A Cab wire Runs
- 82 Overhead wire Runs
- 83 Conduit Layout Diagram B-31+32 Type
- 84 Conduit Layout Diagram B-30 Type
- 85 Train Line connection Diagram
- 86 No. 2 Pull Box
- 87 No. 3 Pull Box
- 88 No. 4 Pull Box
- 89 Wiring Running From No. 1 To No. 2 Pull Boxes
- 90 Wiring Running From No. 2 To No. 3 Pull Boxes
- 91 Wiring Running From No. 3 To No. 4 Pull Boxes
- 92 Wiring Running From No. 4 To No. 5 Pull Boxes
- 93 Wiring Running From No. 5 To No. 6 Pull Boxes
- 94 Motor connections
- 95 No. 1+2 Engine Control Boxes
- 96 No. 1+2 Engine Failure Indicator (Ogontz)
- 97 Rolokron Schematics
- 98 Rolokron wiring For Emergency Brake
- 99 Internal Rolokron Box wiring
- 100 Rolokron Box connections 1+2 Ends

BY Red. Co. DATE 11/1/73 SUBJECT Fuses + Circuit
 CHKD. BY By 217-25 DATE 11/1/73
Amity 315 R-31 21-132 Repair 217-25

SHEET NO. _____ OF _____

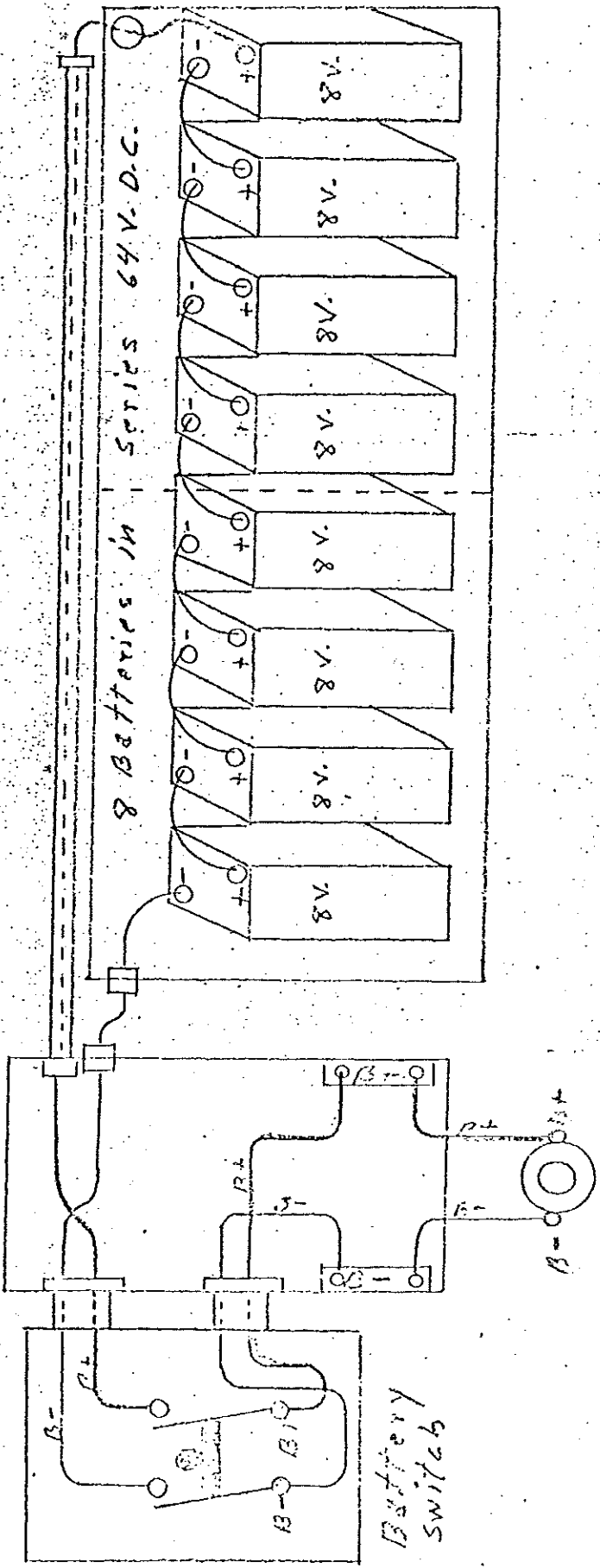
JOB NO. _____

Page 1

Breakers & FUSES (REFERENCE)

Name Plate	Amps	Location	Name Plate	Amps	Location
Gen #1 Pilot Lt.	6	SW. LKR.	Water Cooler	30	Elect. Cabinet
Gen #2 Pilot Lt.	6	Elect. Cabinet	Voltage Reg. #1	150	Elect. Cabinet
Heater Cab #1	2-50	Elect. Cabinet	Voltage Reg. #2	150	Elect. Cabinet
Heater Cab #2	2-50	Elect. Cabinet	Wash Basin #1	15	
Cooling Pilot Lt.	6	SW. LKR.	Wash Basin #2	15	
Reg. Lkr. + Plenum Lt.	15	SW. LKR.	Revolving Light	2-15	Elect. Cabinet
SIGNAL	10	SW. LKR.	Controller A End	20	SW. LKR.
SANDING	15	SW. LKR.	Controller B End	20	SW. LKR.
O.H. Heat Pump	20	SW. LKR.			
Floor Heat Pump	20	SW. LKR.			
Air Compressor	60	Elect. Cabinet			
No 1 Fan Panel	80	Elect. Cabinet			
No 2 Fan Panel	80	Elect. Cabinet			
Air Compressor Control Panel	15	Elect. Cabinet			
Condenser Fan	30	Elect. Cabinet			
Sanding Directional	15	SW. LKR.			
Eng. Control #1	15	SW. LKR.			
Eng. Control #2	15	SW. LKR.			

No. 4 Pull Box



8 Batteries in Series 64 V. D.C.

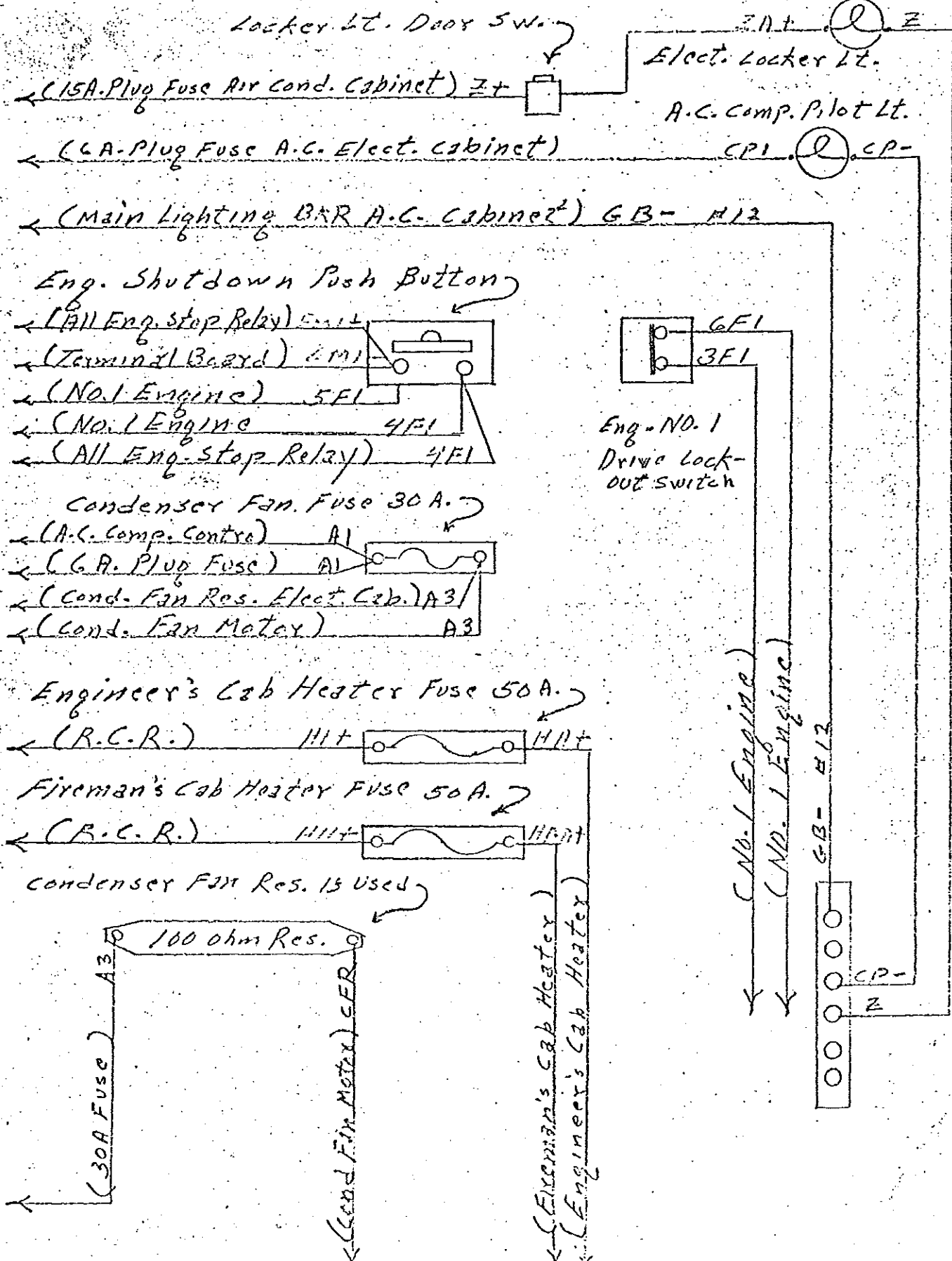
Battery Switch

Charging Receptacle

BY Pdg. Co. DATE 7/5/73
 CHKD. BY _____ DATE _____
 Amt. # K B-32

SUBJECT DEVICE WIRING
Electrical Cabinet
B Cab NO 1 Eng

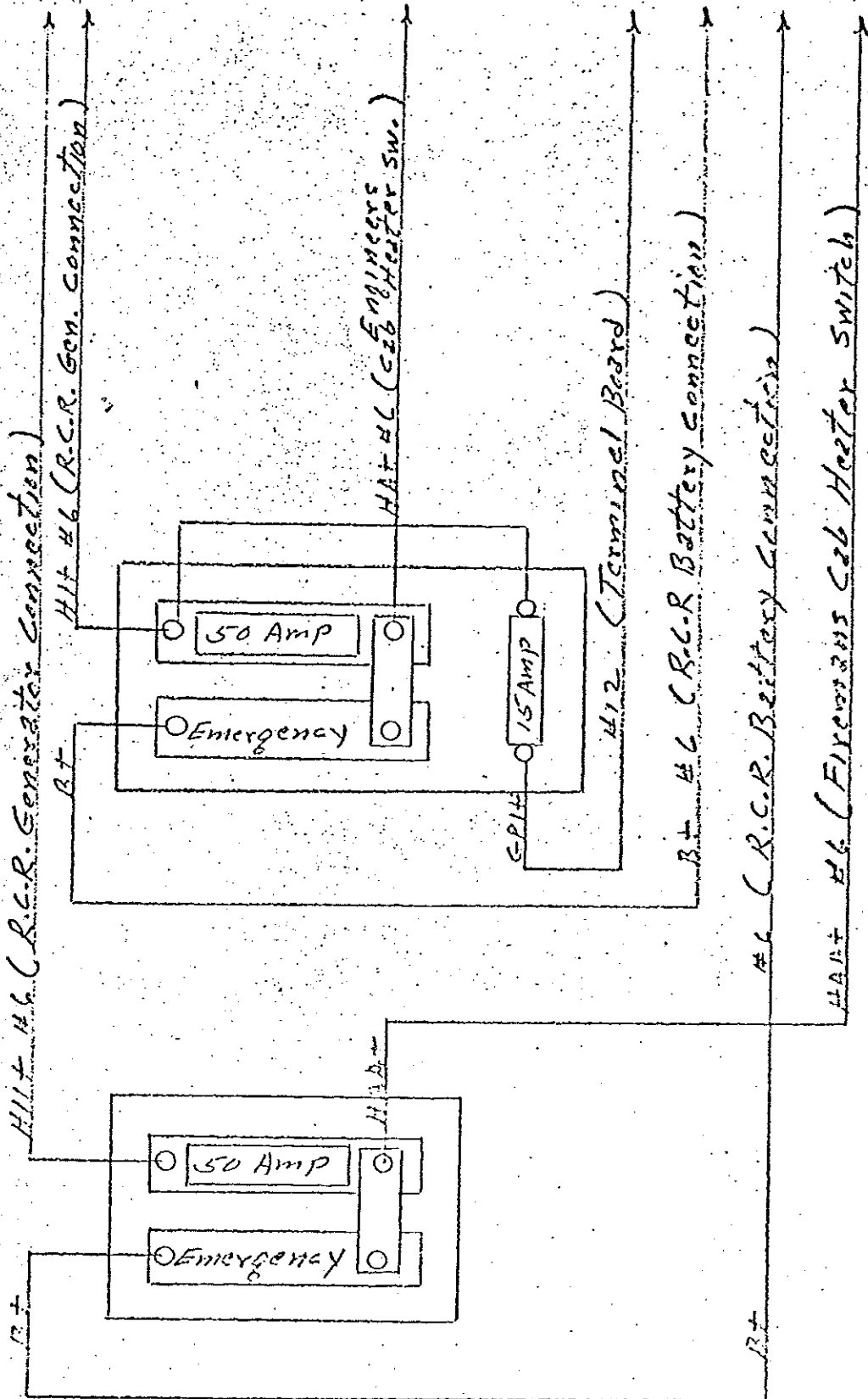
SHEET NO. 1 OF 4
 JOB NO. _____
 Page 3



BY Rdy. Co DATE 11/10/73
CHKD. BY _____ DATE _____
Amtrak B-30

SUBJECT Fireman's + Engineers
Cab Heater Fuses
Blocks B End

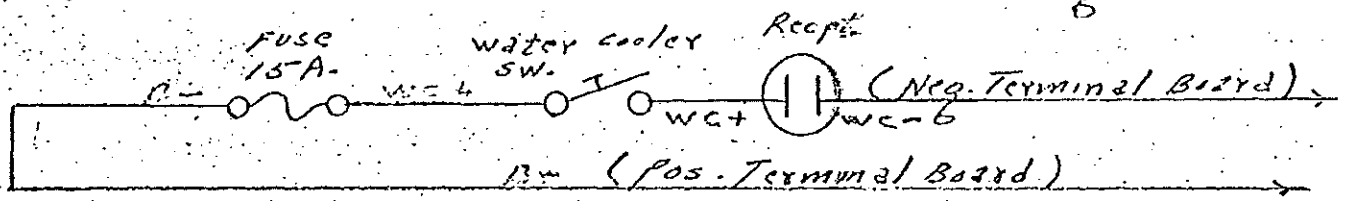
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JOB NO. _____
Page 4



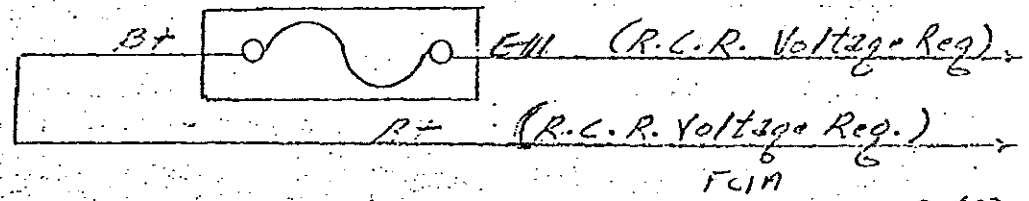
BY R. L. Co. DATE 7/5/39
 CHKD. BY Antark B-32 DATE _____

SUBJECT Device Wiring Electrical Cabinet
R. Cab No. 1

SHEET NO. 2 OF 4
 JOB NO. _____
 Page 5

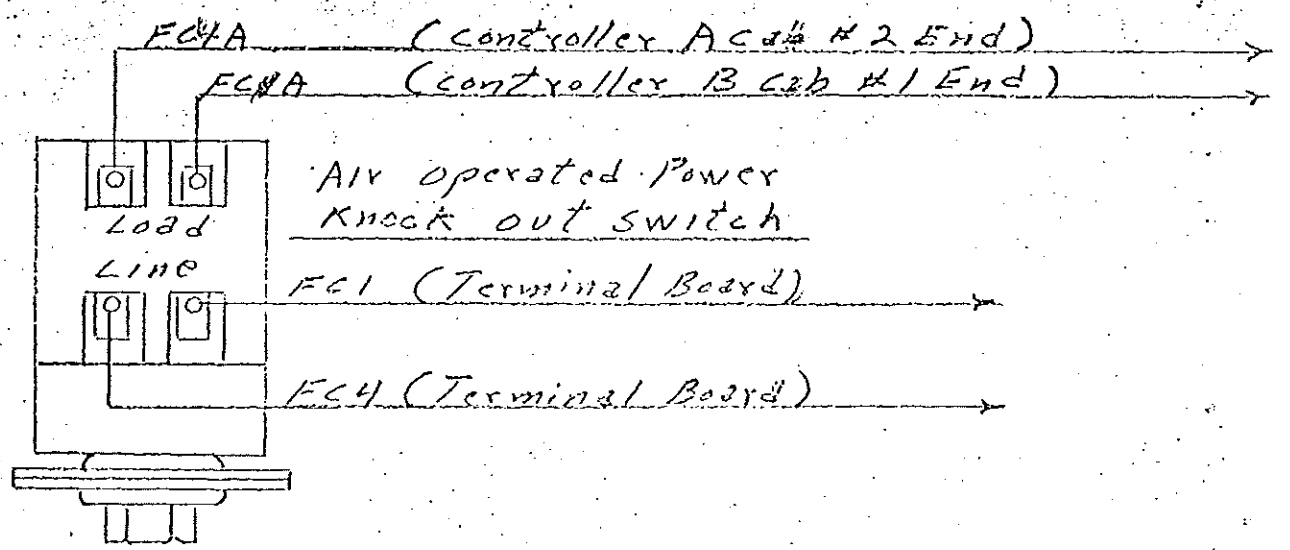
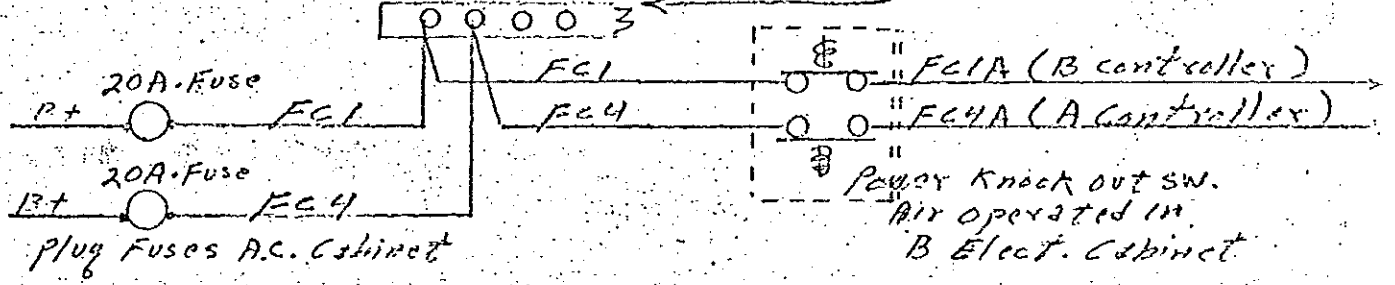


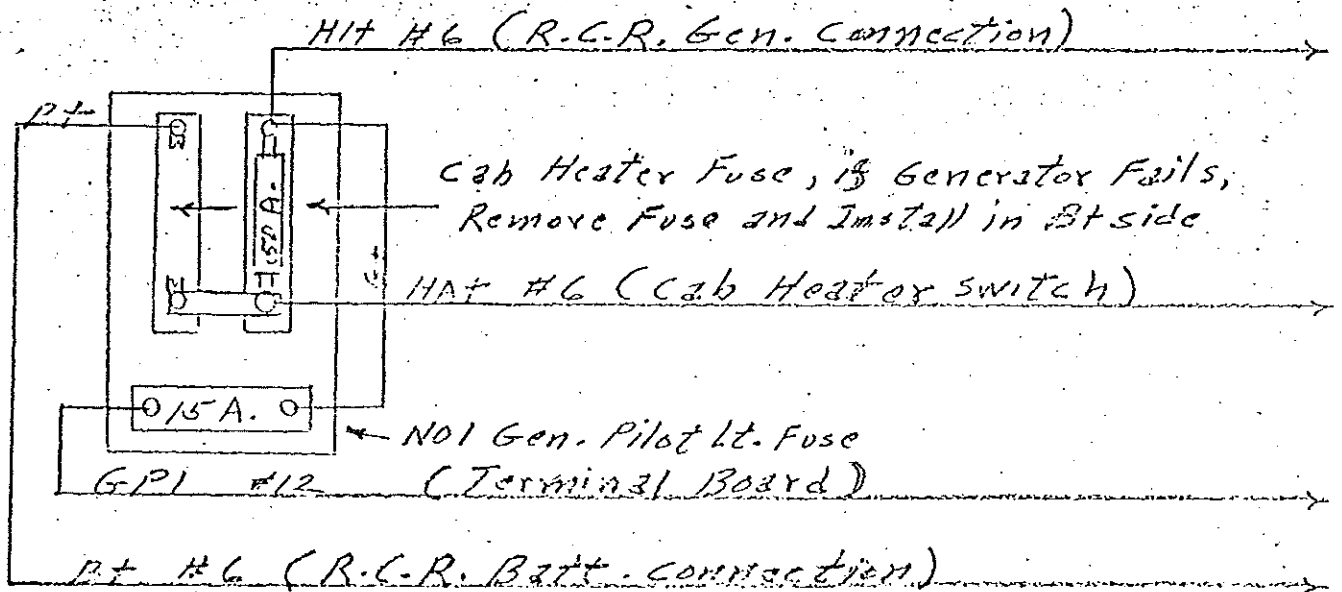
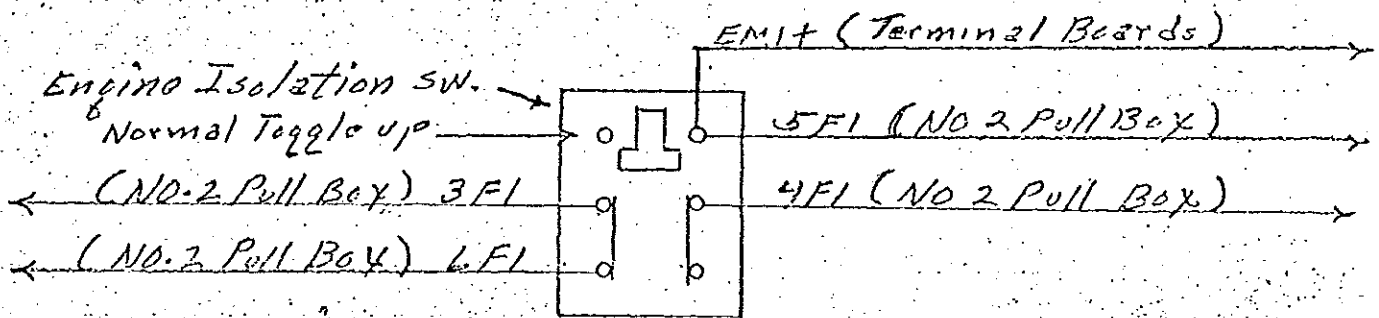
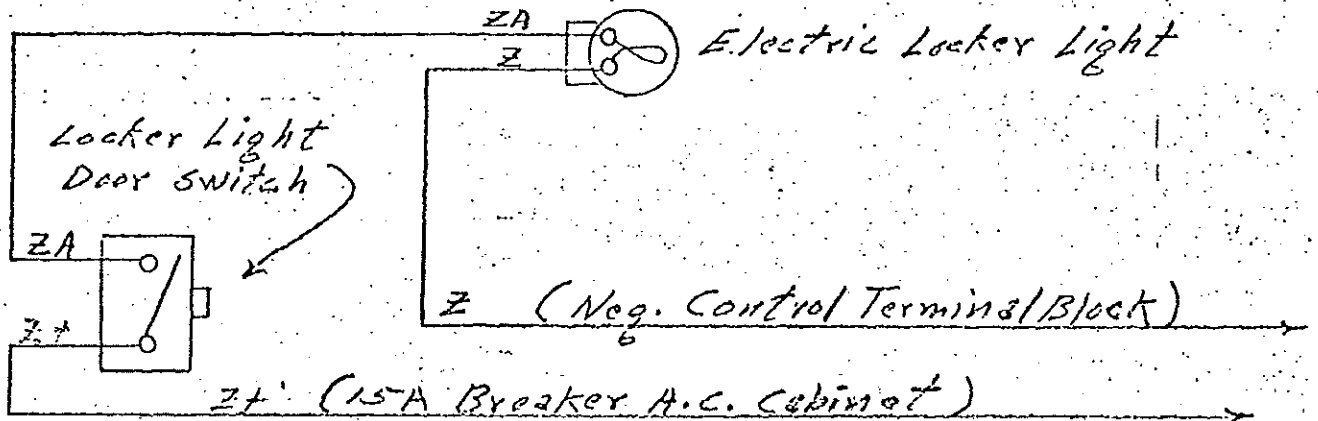
Emergency Cab Master Fuse



FC1 FROM FUSE TO POWER KNOCKOUT TO TERM. BOARD TO CONTROLLER

Terminal Board Elect. Cabinets





BY Rdg. Co. DATE 7-4-73

SUBJECT Lamp Regulator

SHEET NO. 2 OF 31

CHKD. BY _____ DATE _____

Wireman Alan Electric

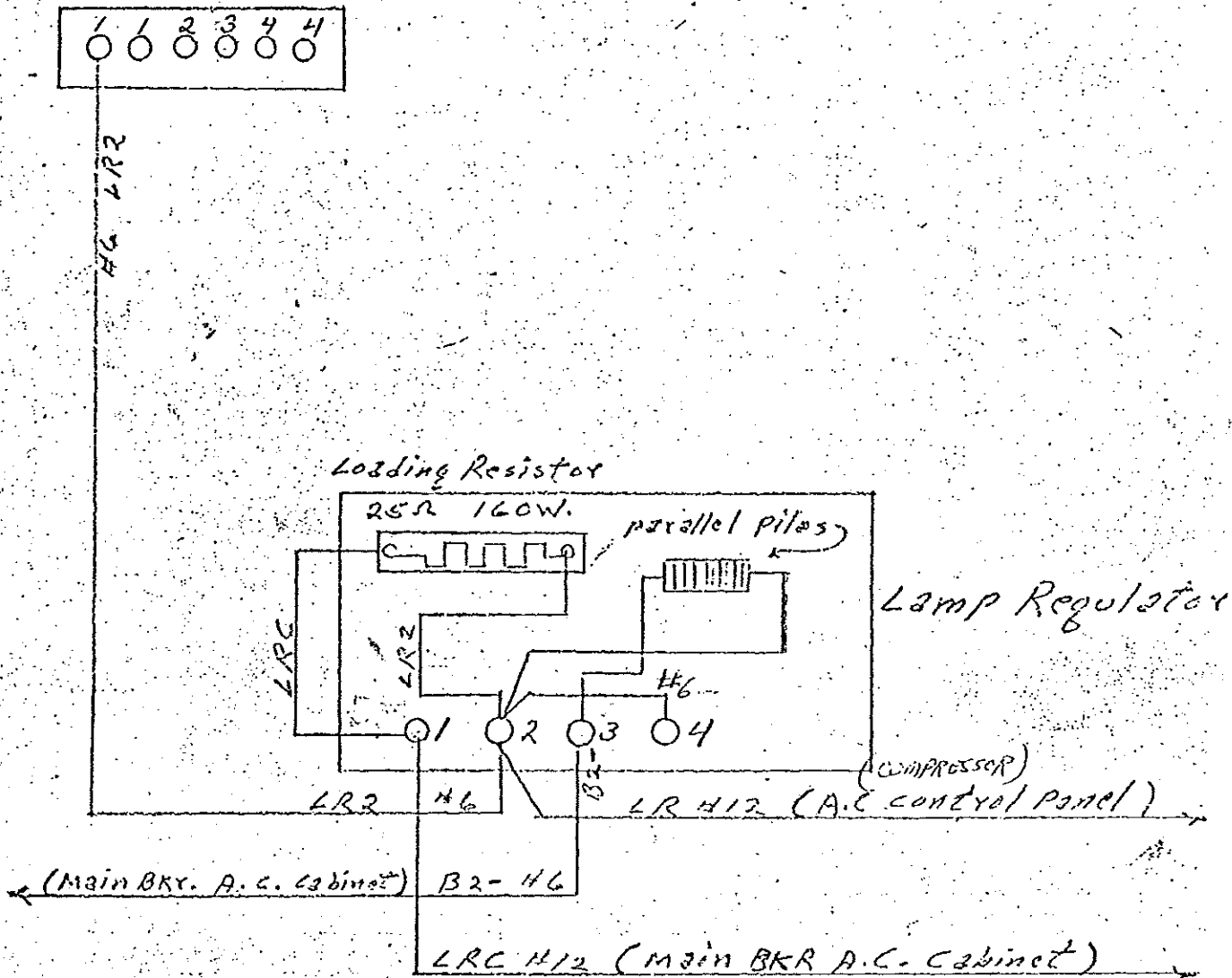
JOB NO. _____

Amtr. 35 B-32

Cabinet No. 1 Eng

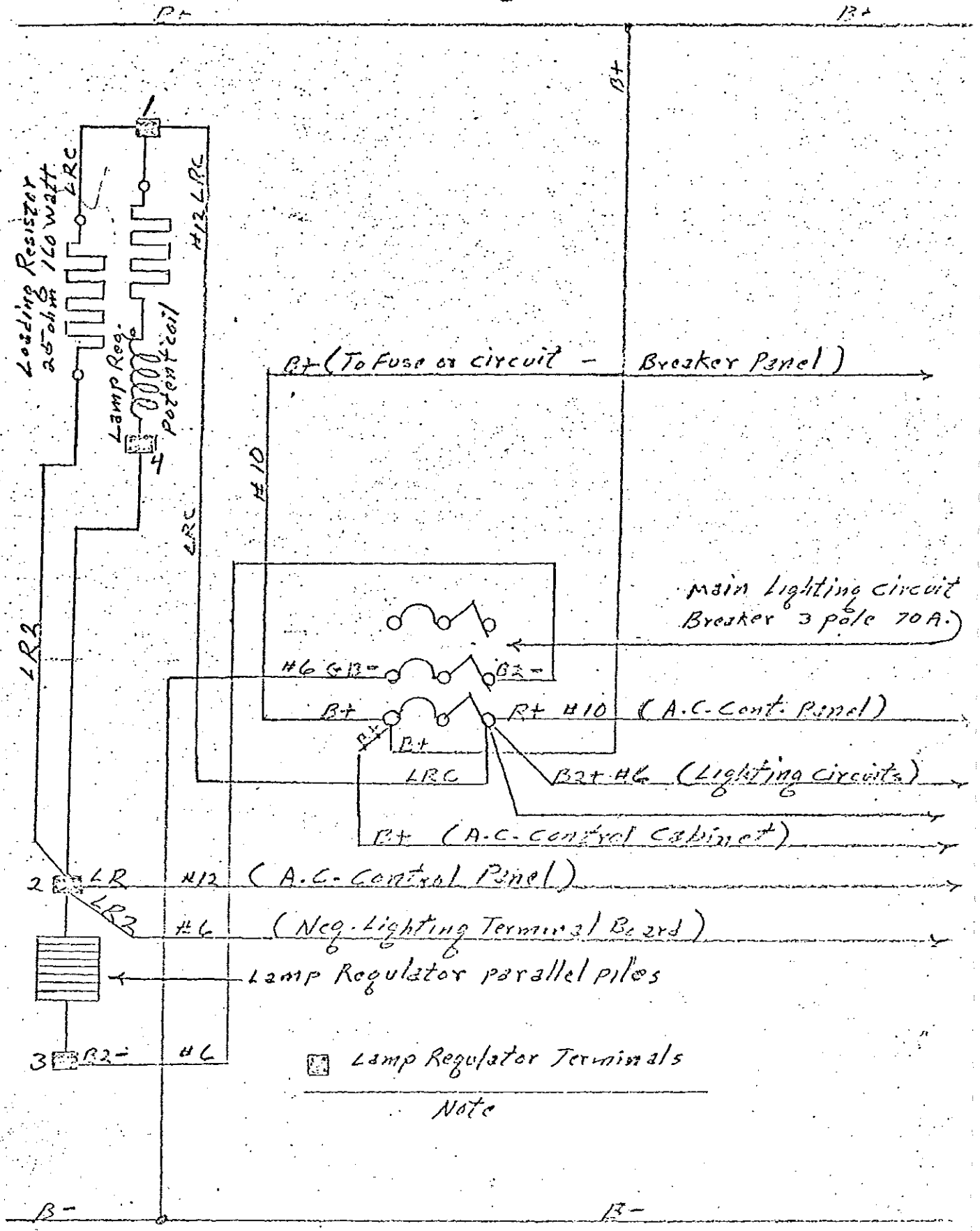
Page 7

Neq. Lighting Terminal Board B End. Elect. Cabinet



A.C. - Air conditioning

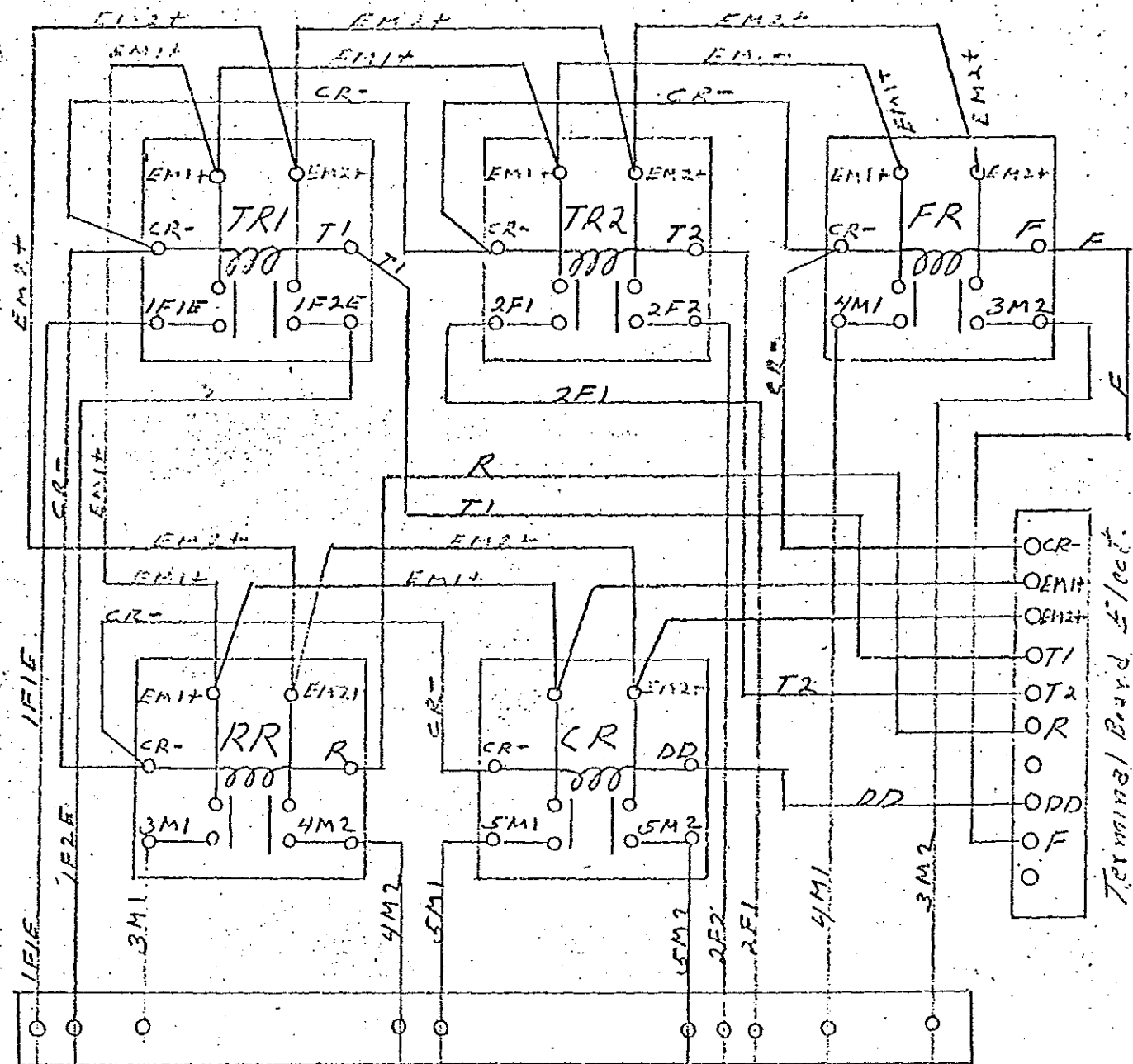
Note



BY Rde. Co. DATE 7/1/73
 CHKD. BY _____ DATE _____
Amtrak B-32

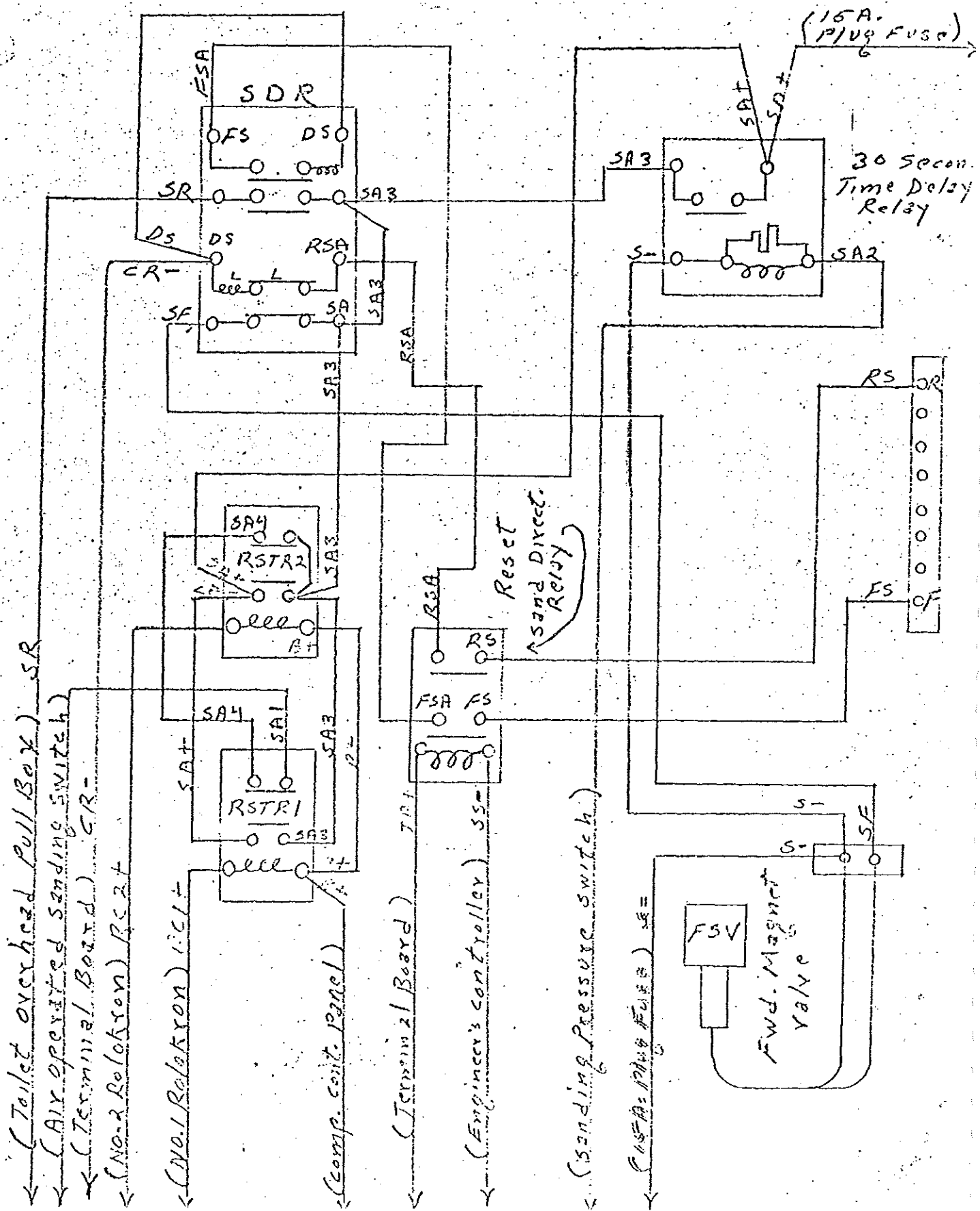
SUBJECT Device Wiring
Electrical Cabinet
B Cab No 1 End

SHEET NO. 3 OF 4
 JOB NO. _____
Page 9



(NO. 1 ENGINE)
 (NO. 2 ENGINE)
 (NO. 1 ENGINE)
 (NO. 2 ENGINE)
 (NO. 1 ENGINE)
 (NO. 2 ENGINE)
 (NO. 2 ENGINE)
 (NO. 1 ENGINE)
 (NO. 2 ENGINE)

Terminal Board 5/10/73



← (Toilet overhead Pull Box) SR

← (Air operated sanding switch)

← (Terminal Board) CR-

← (No. 2 Rolokson) RSTR

← (No. 1 Rolokson) RSTR

← (Comp. cont. panel)

← (Terminal Board)

← (Engineer's controller) SS-

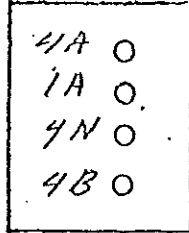
← (Sanding Pressure switch)

← (15A Plug Fuser)

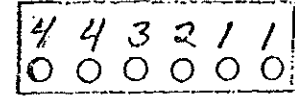
BY Rdg. Co. DATE 2/24/73 SUBJECT Terminal Panels
 CHKD. BY _____ DATE _____ B. Electrical
Amtrak R-31-32 Cabinets

SHEET NO. _____ OF _____
 JOB NO. _____
Page 11

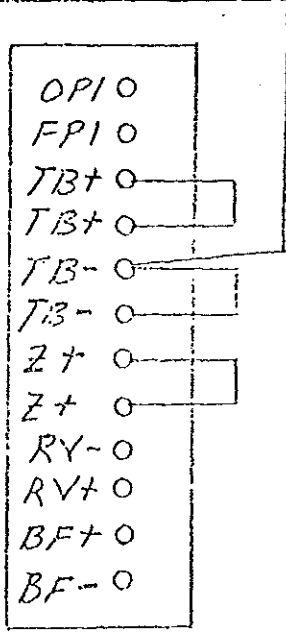
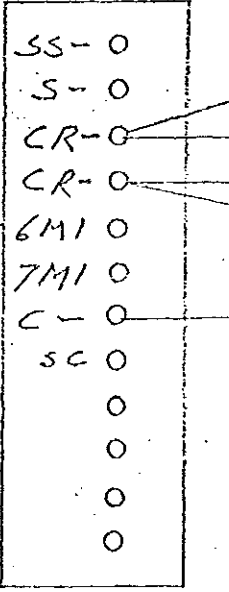
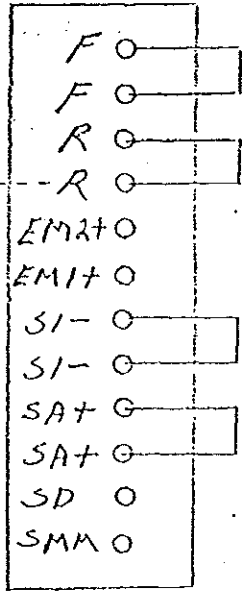
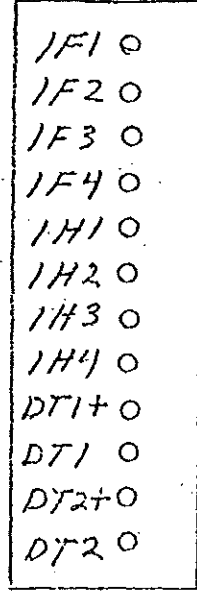
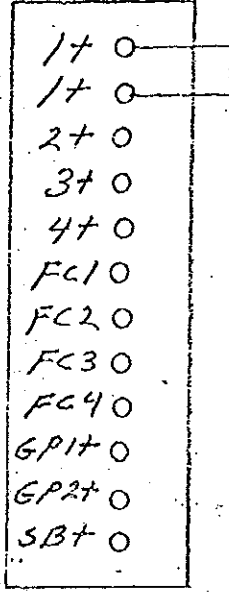
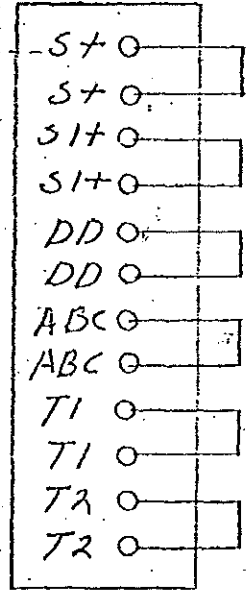
Lighting



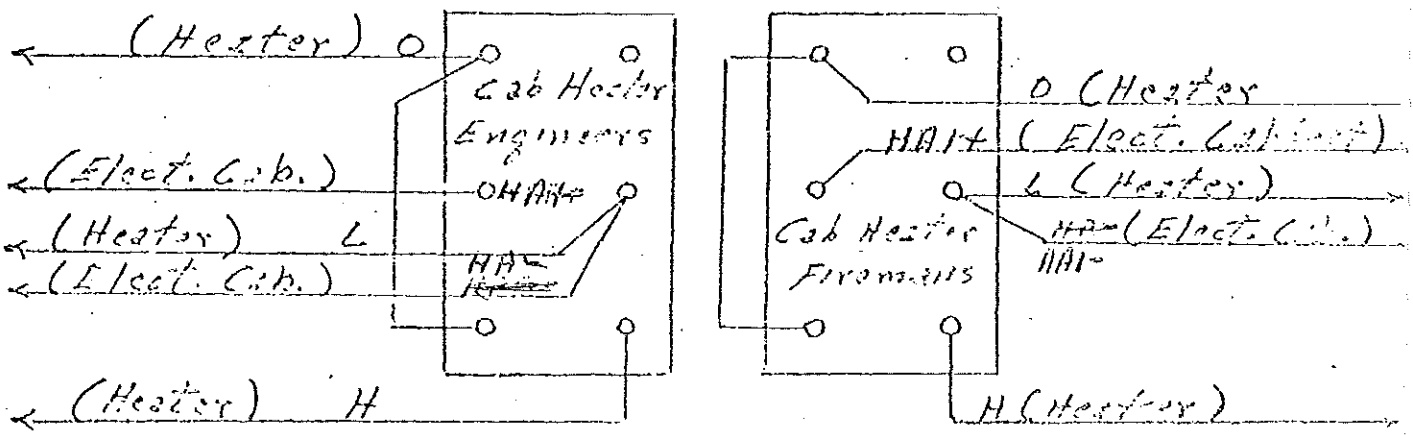
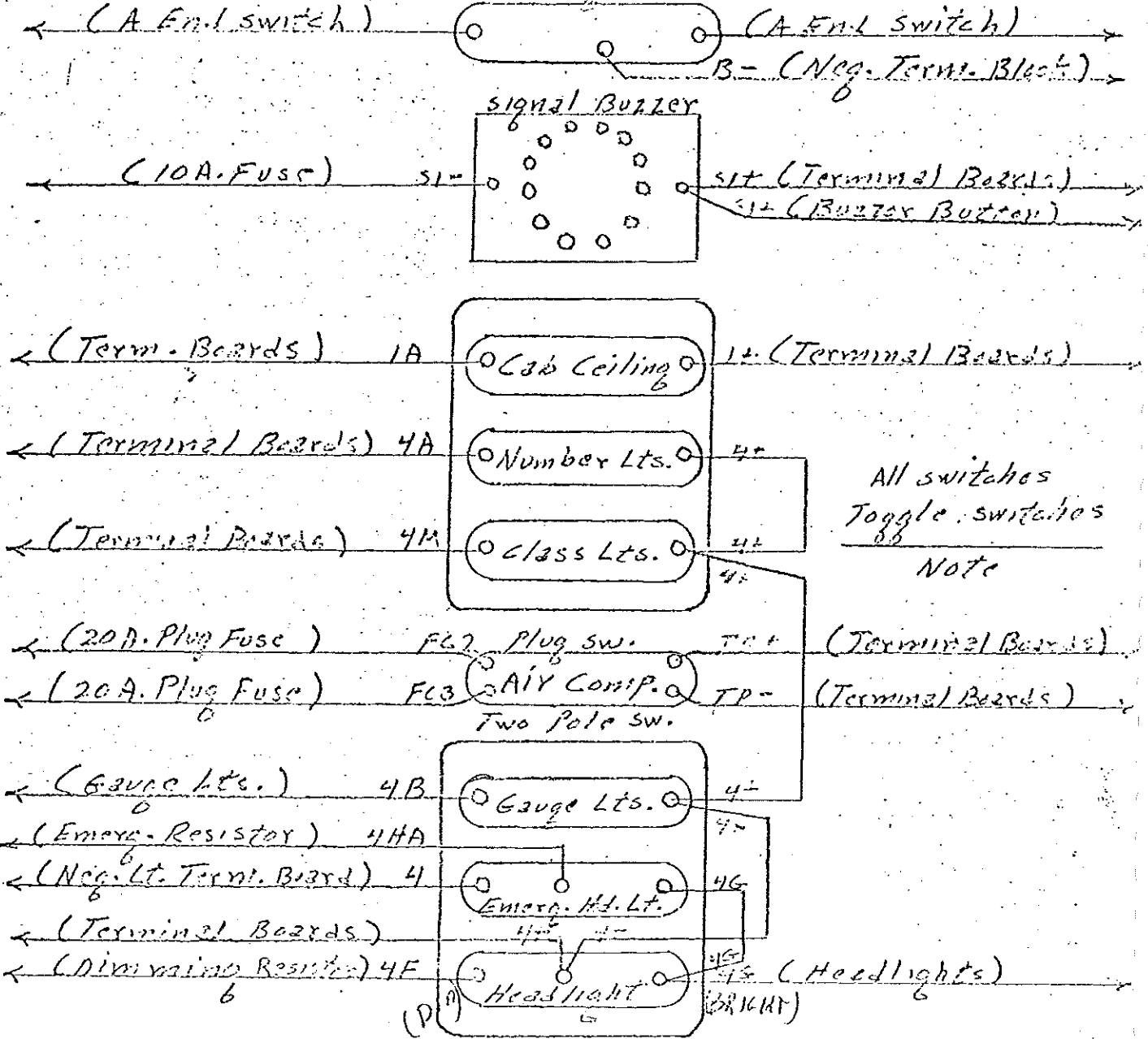
Neq. Lighting



Train Line



Revolving Ref Lt.

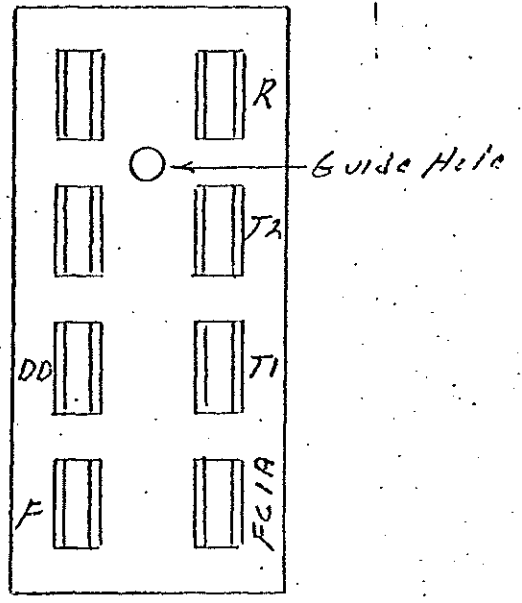
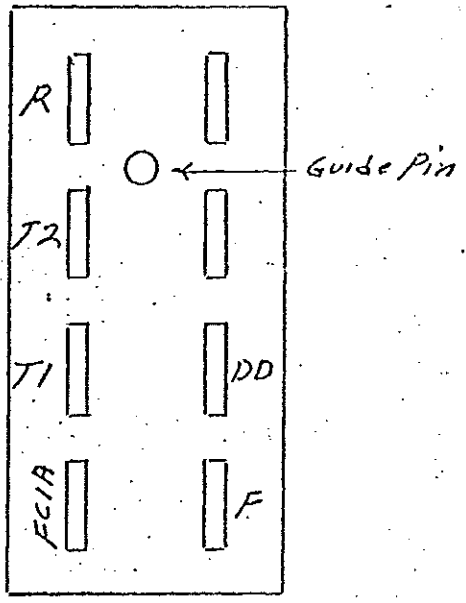


BY Bdo. Co DATE 11-14-73 SUBJECT Controller Receptacle
 CHKD. BY 6 DATE 6 Plug wiring B End
Amtrak B-30

SHEET NO. 2 OF 2
 JOB NO. 30-13

Plug Wiring

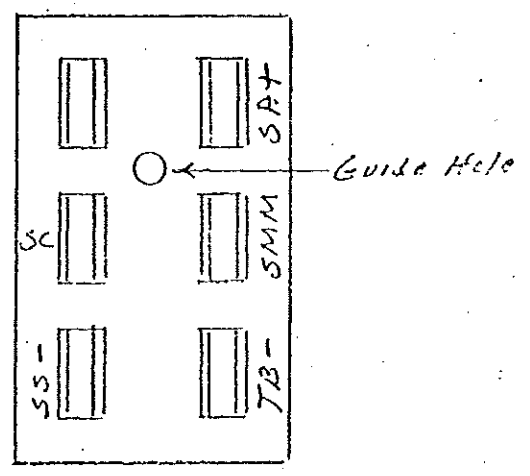
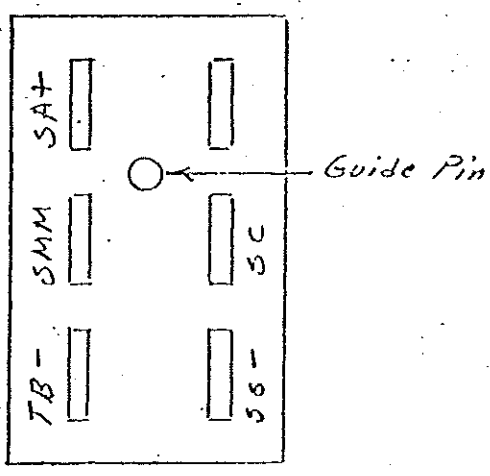
Receptacle Wiring



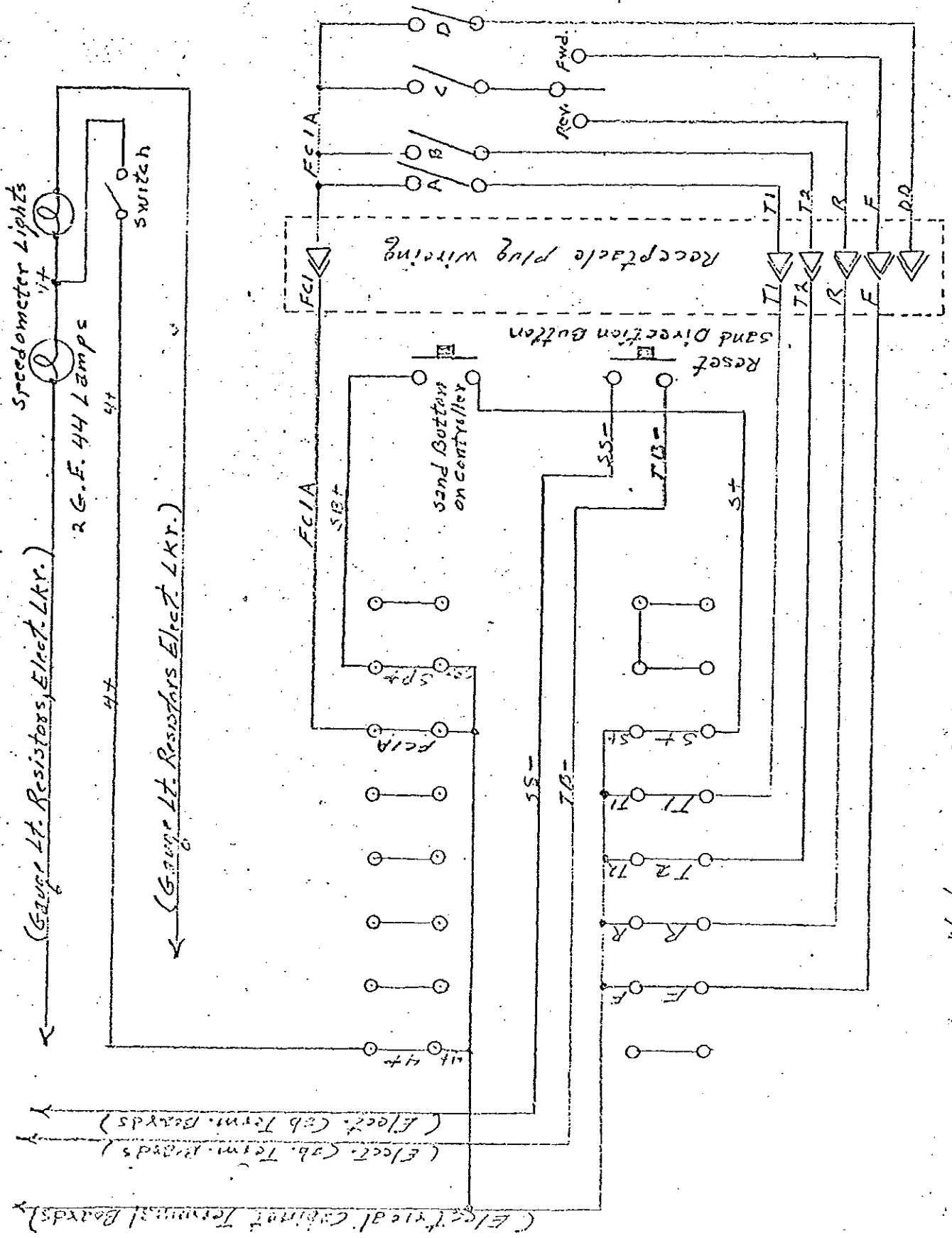
Views shown looking at
 coupling faces

Plug Wiring

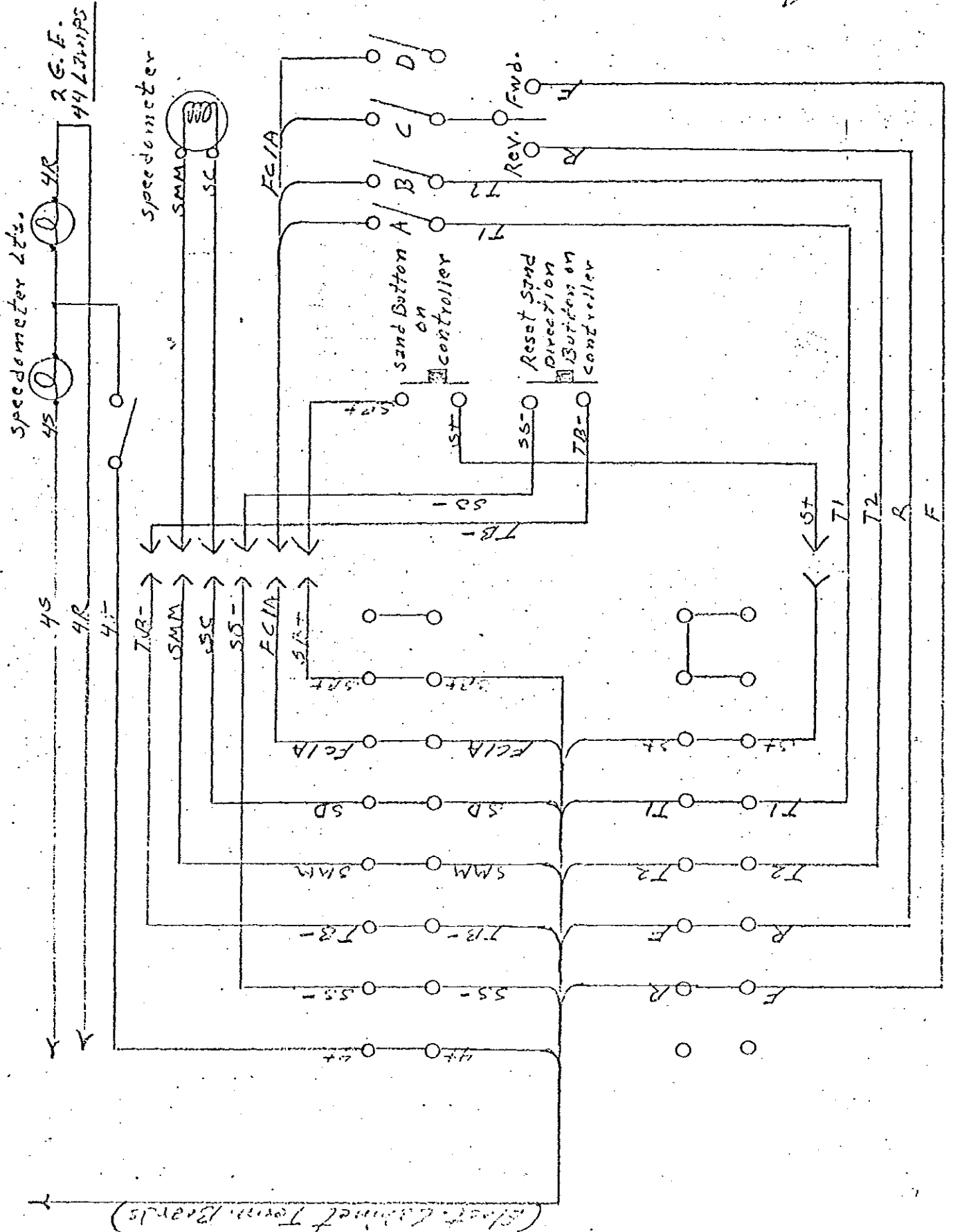
Receptacle Wiring

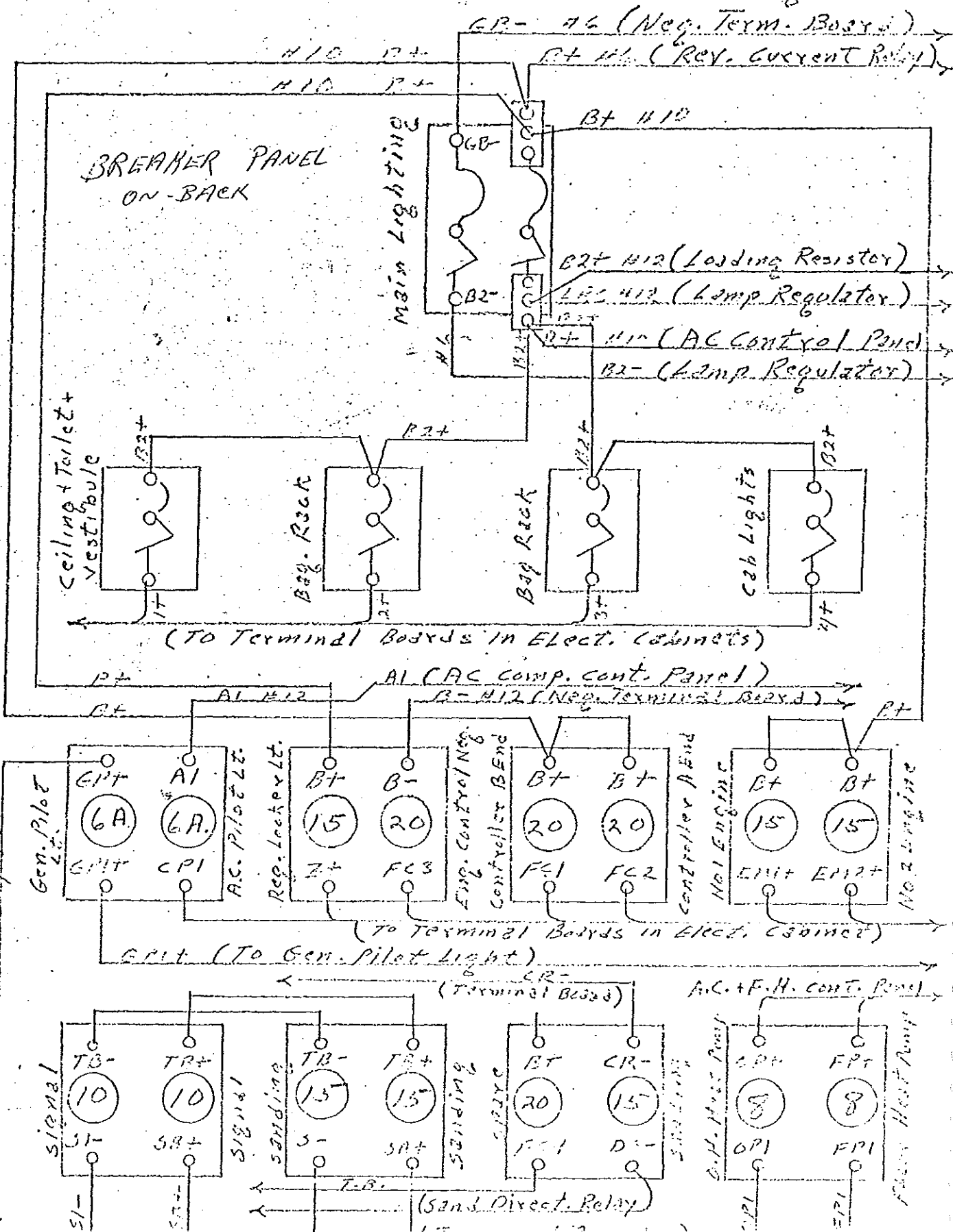


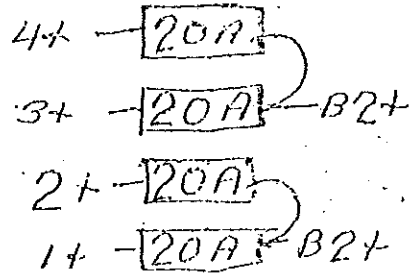
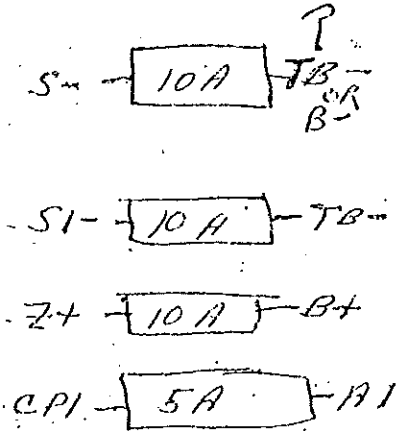
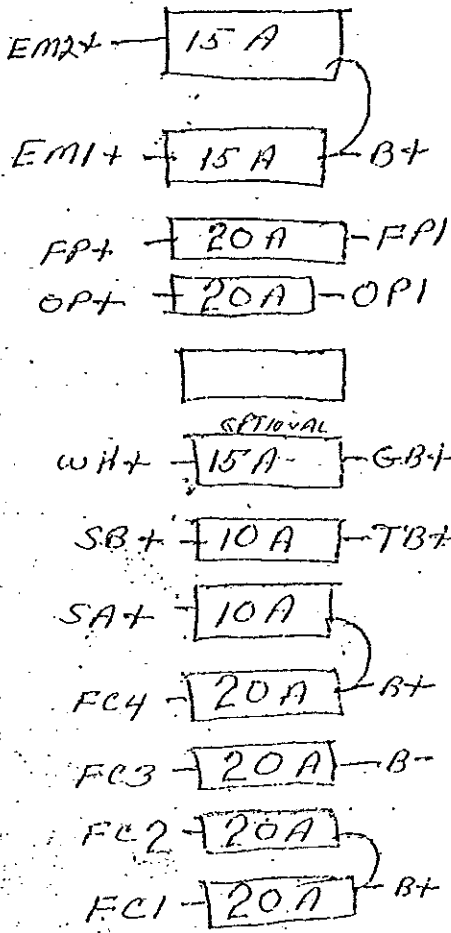
Views shown looking at
 coupling faces



Note See Revised Print

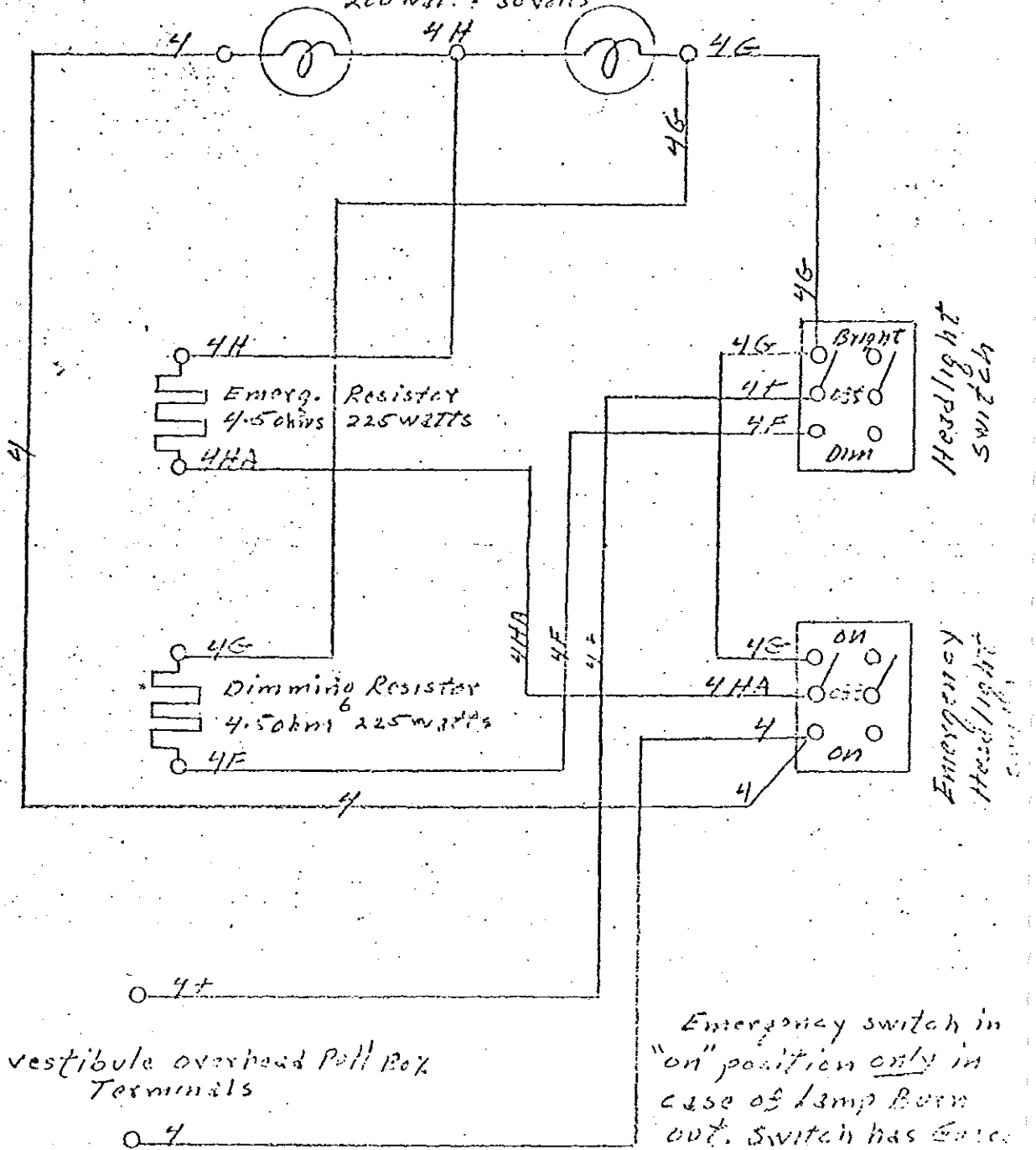






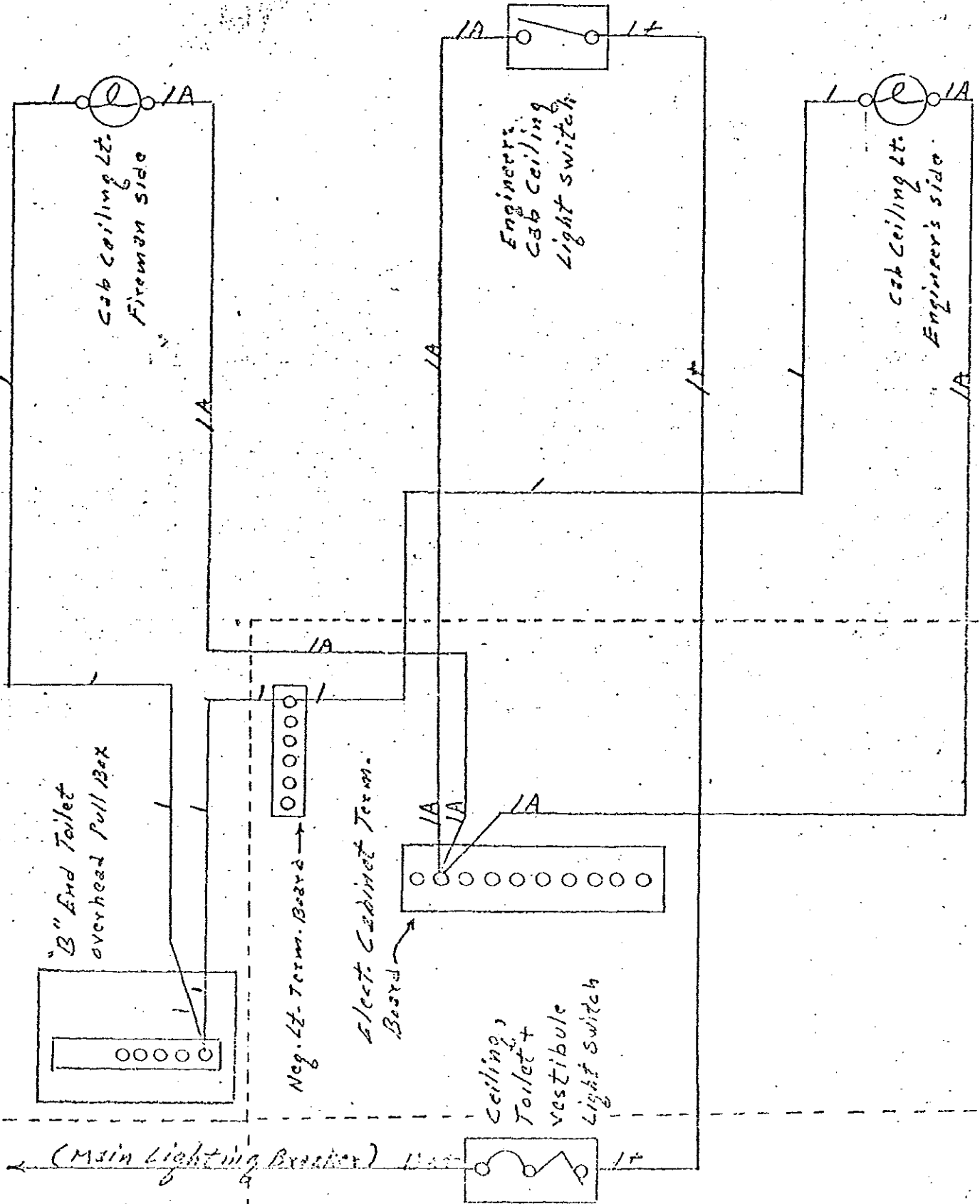
REAR VIEW

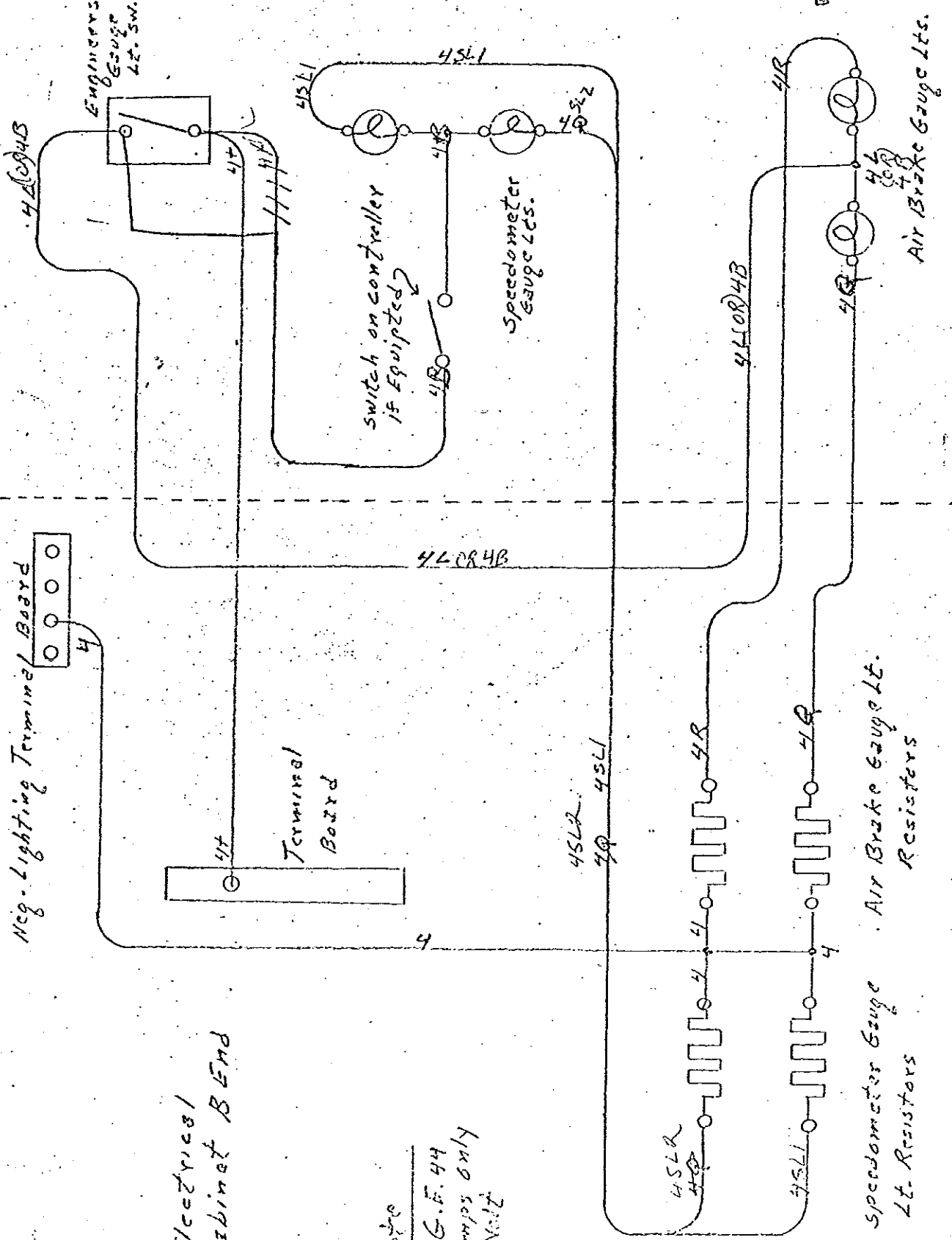
Sealed Beam Headlights
200 Watts 30 Volts



Emergency switch in "on" position only in case of lamp burn out. Switch has force to revert turning off except in case of Emergency

Note





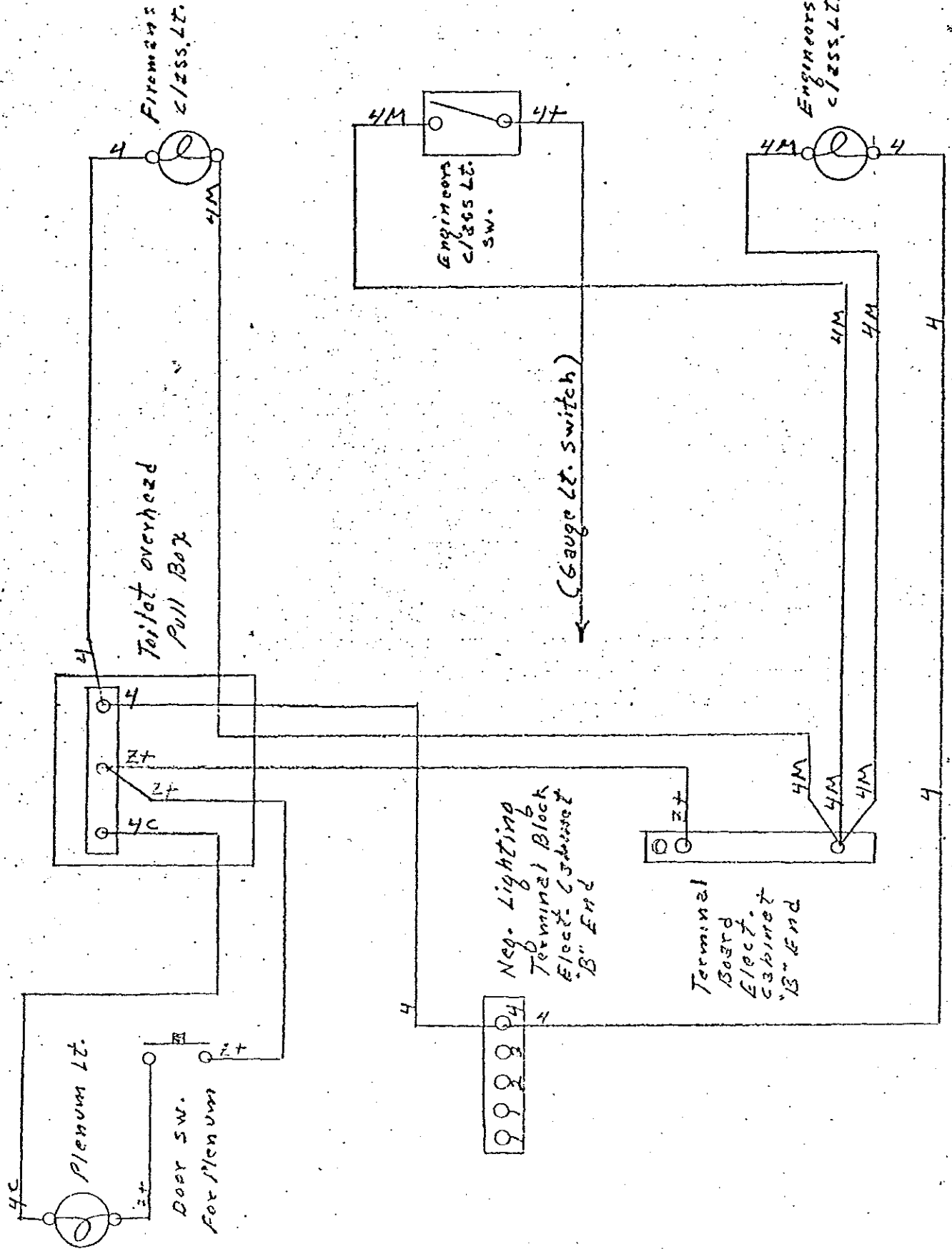
Neg. Lighting Terminal Board

Electrical Cabinet B End

Note
 Use G.F. 44
 Lamps only
 6 Volt

Speedometer Gauge Lt. Resistors
 Air Brake Gauge Lt. Resistors

Air Brake Gauge Lt.



ENGINEERS
CLASS. LT.

Terminal Board Elect. Cabinet "B" END

Neg. Lighting Terminal Block Elect. Cabinet "B" END

Tailor overhead Pull Box

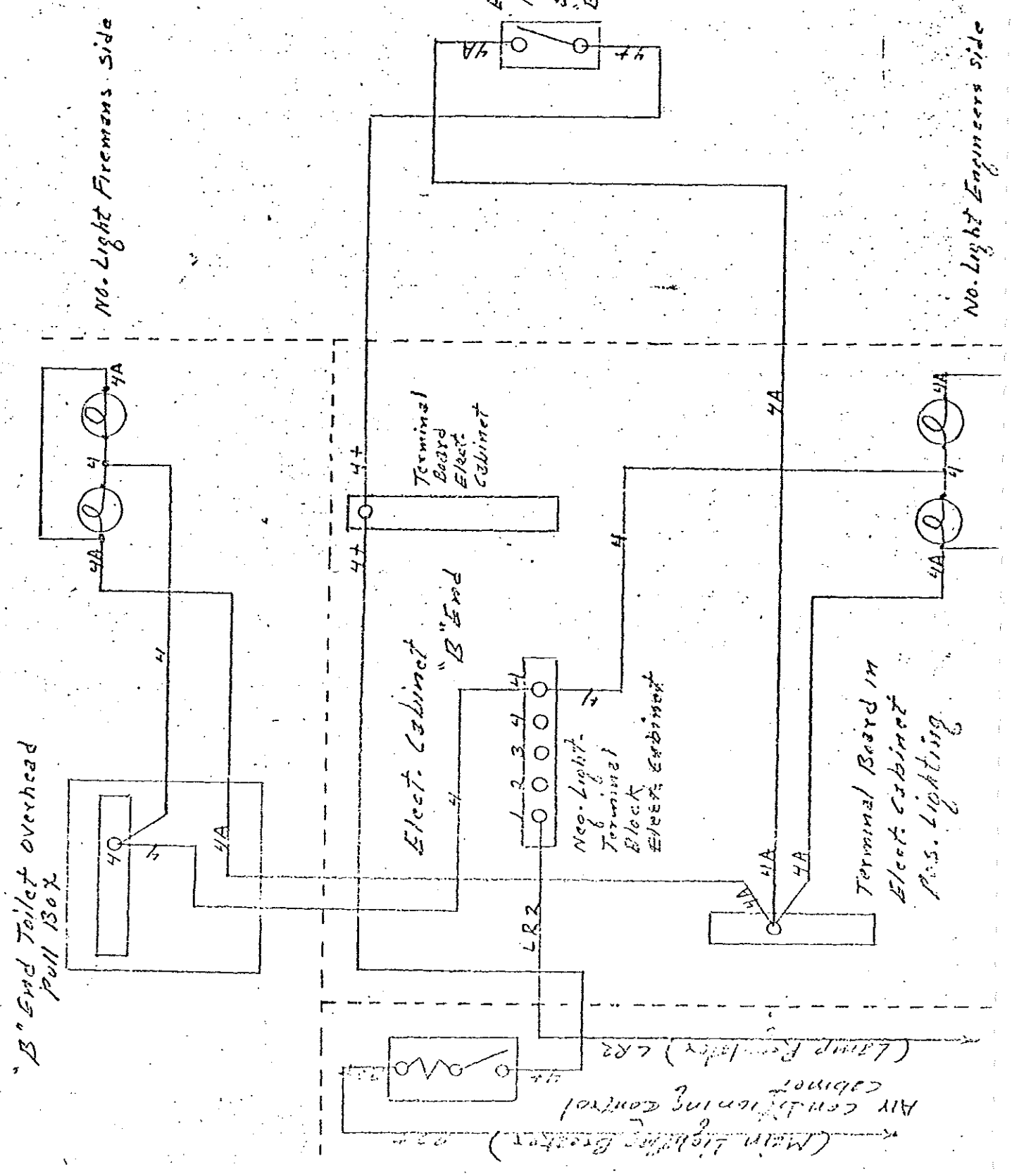
Fireman's CLASS. LT.

Plenum Lt.

Door SW. for Plenum

Engineers CLASS. LT. SW.

(Gauge Lt. Switch)

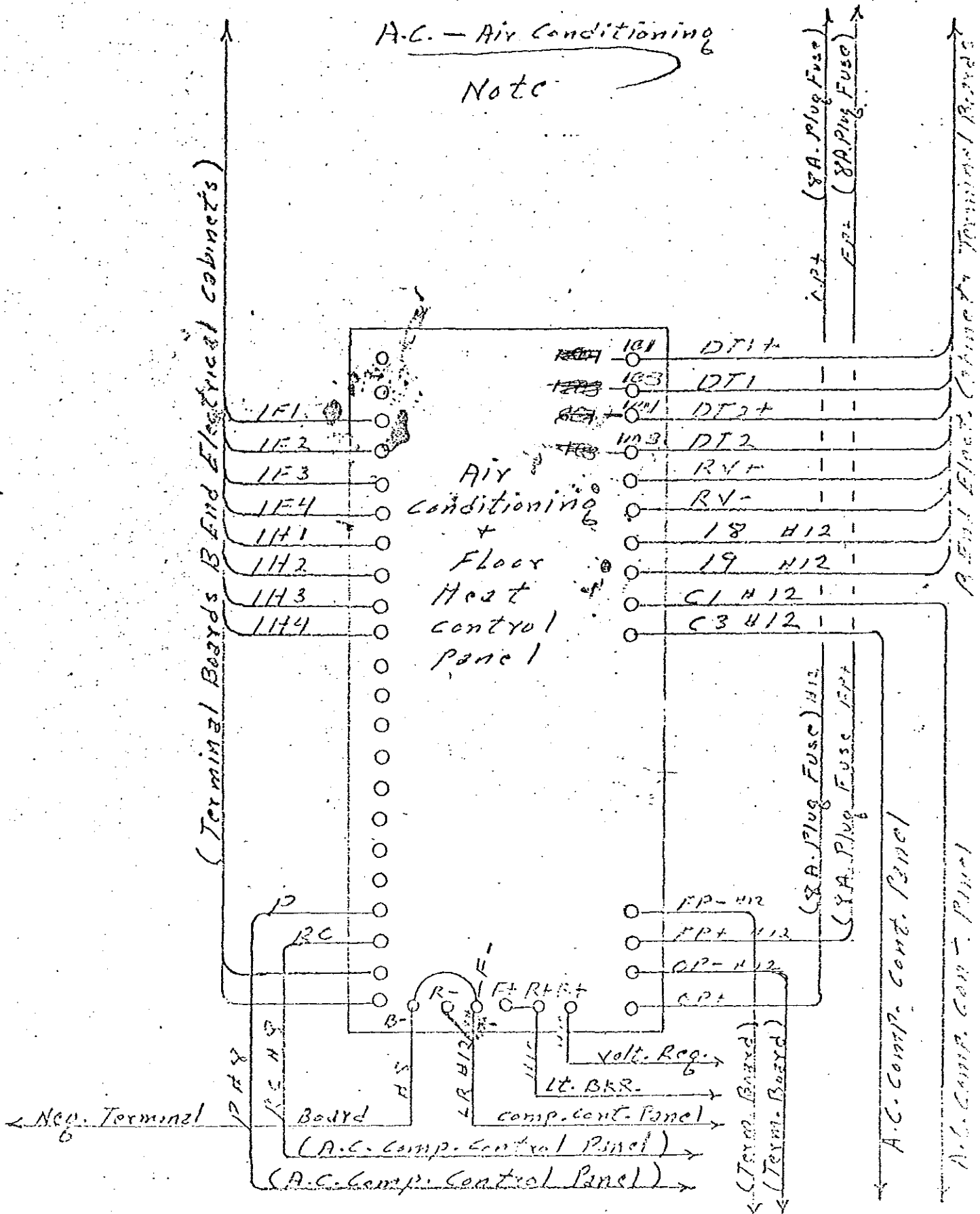


BY Rda. Co. DATE 9/4/73
 CHKD. BY 8 DATE
 Amtrak B-32

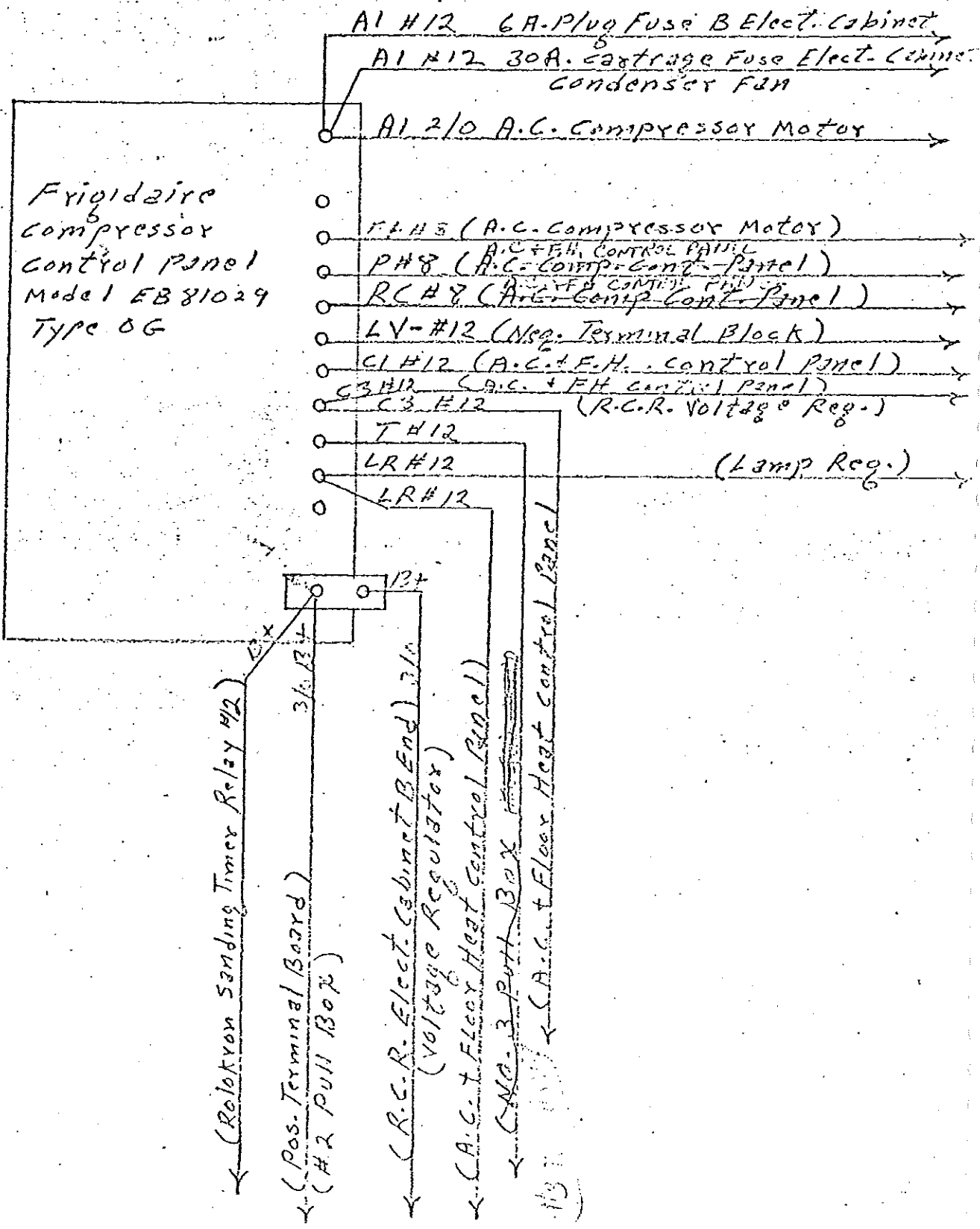
SUBJECT Air Conditioning
 + Floor Heat Control
 Panel

SHEET NO. 1 OF 2
 JOB NO. Page 22

A.C. - Air Conditioning
 Note

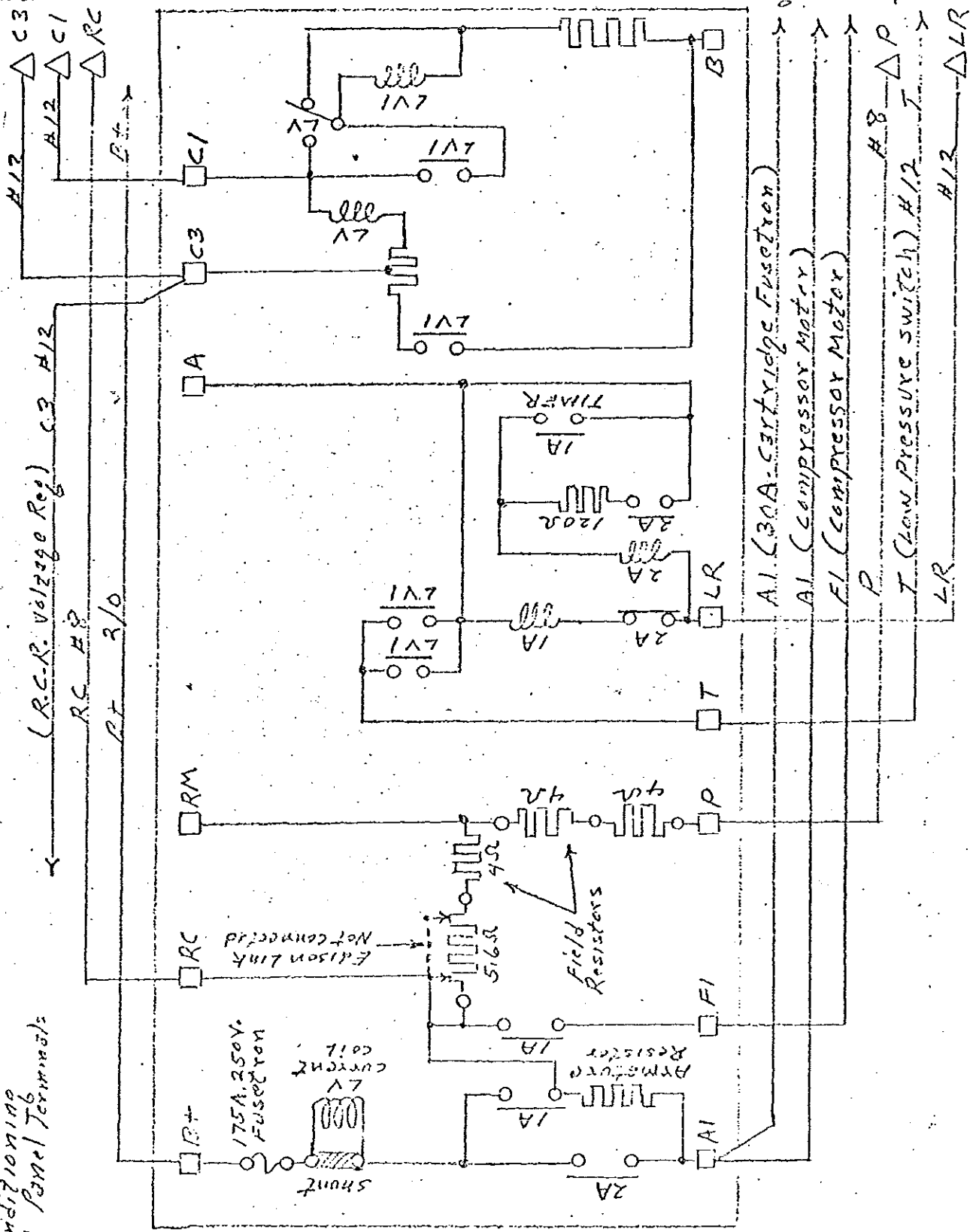


A.C. Air conditioning
 Note



□ Compressor Control Panel Terminals

△ Air Conditioning Control Panel Terminals



(R.C.R. Voltage Reg) C3 H12

RC HP
RT 3/0

A1 (30A Cartridge Fuse)

A1 (Compressor Motor)

F1 (Compressor Motor)

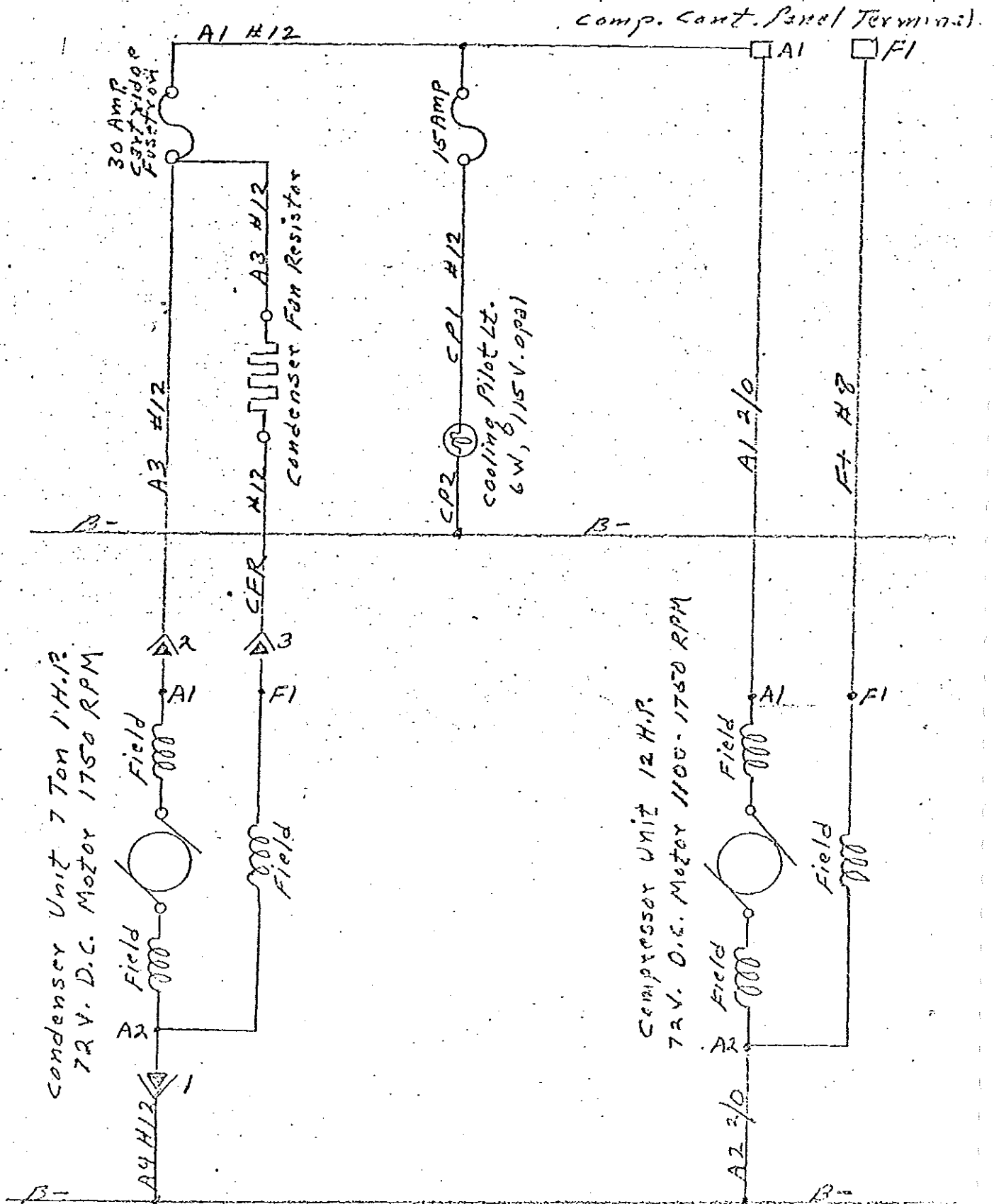
P #8 Δ P

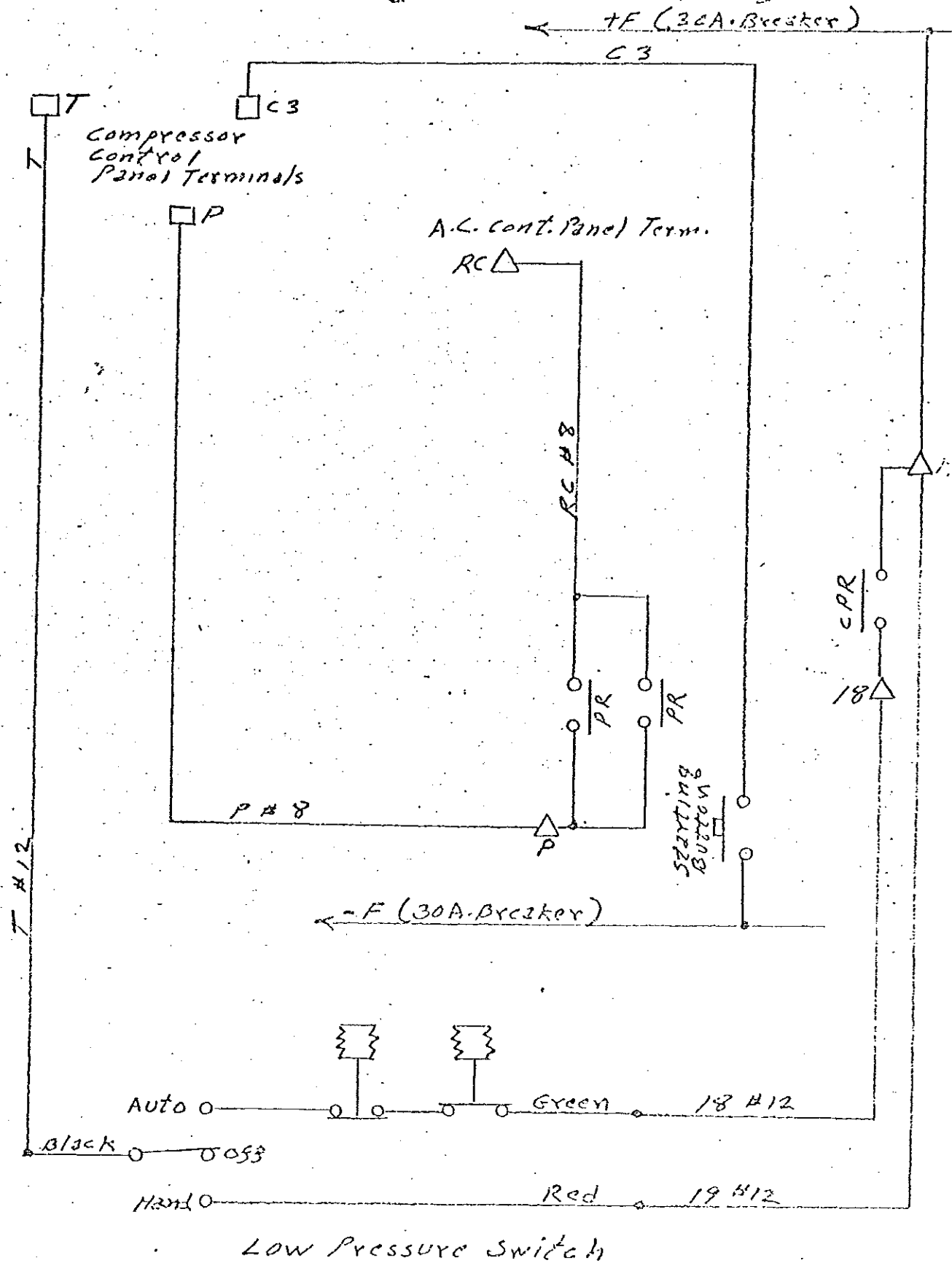
T (Low Pressure switch) H12 T

LR H12 Δ LR

BY Rdg. Co. DATE 9/19/73 SUBJECT CONDENSER UNIT + COMPRESSOR UNIT'S
 CHKD. BY Amtrak B-3113-32 DATE 9/19/73 WIRING DISCREP

SHEET NO. 2 OF
 JOB NO. PROP 25





Control Switch operating Positions

Circuits Closed							
Position	1	2	3	4	5	6	7
High	Heat LR		0	0			0
Low	Heat LI		0			0	
Off	C				0		
Cool	R	0	0				

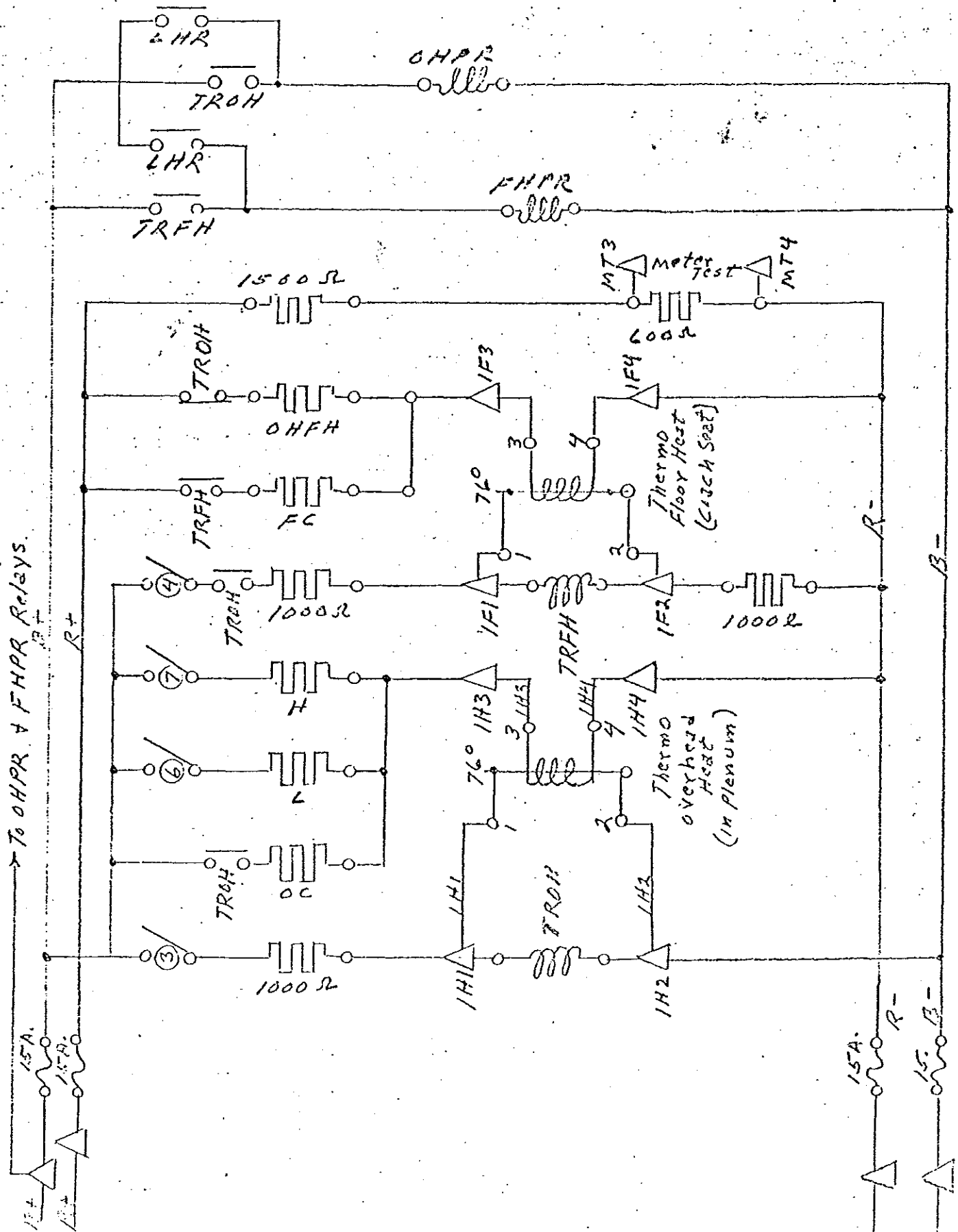
Vapor Relay Symbols

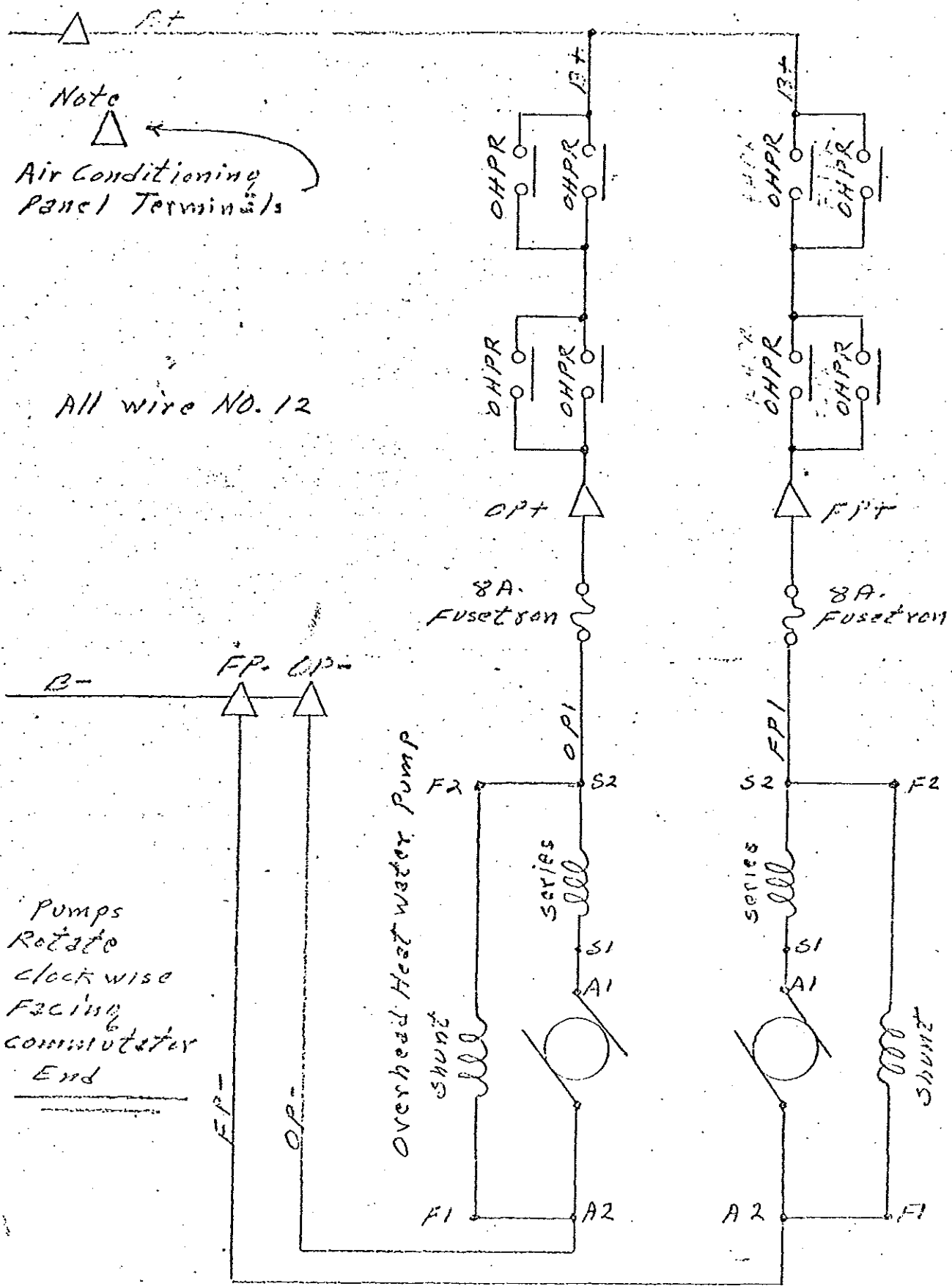
Code	Description
PR	"P" Relay
CMR	Cooling Modulating
CPR	Cooling Pilot Relay
FHR	Floor Heat Pump Relay
TRHT	Overhead Heat Thermostat
TRFH	Floor Heat Thermostat
LHR	Layover Heat Relay
CHPR	Overhead Heat Pump

Vapor Resistors For Thermostats

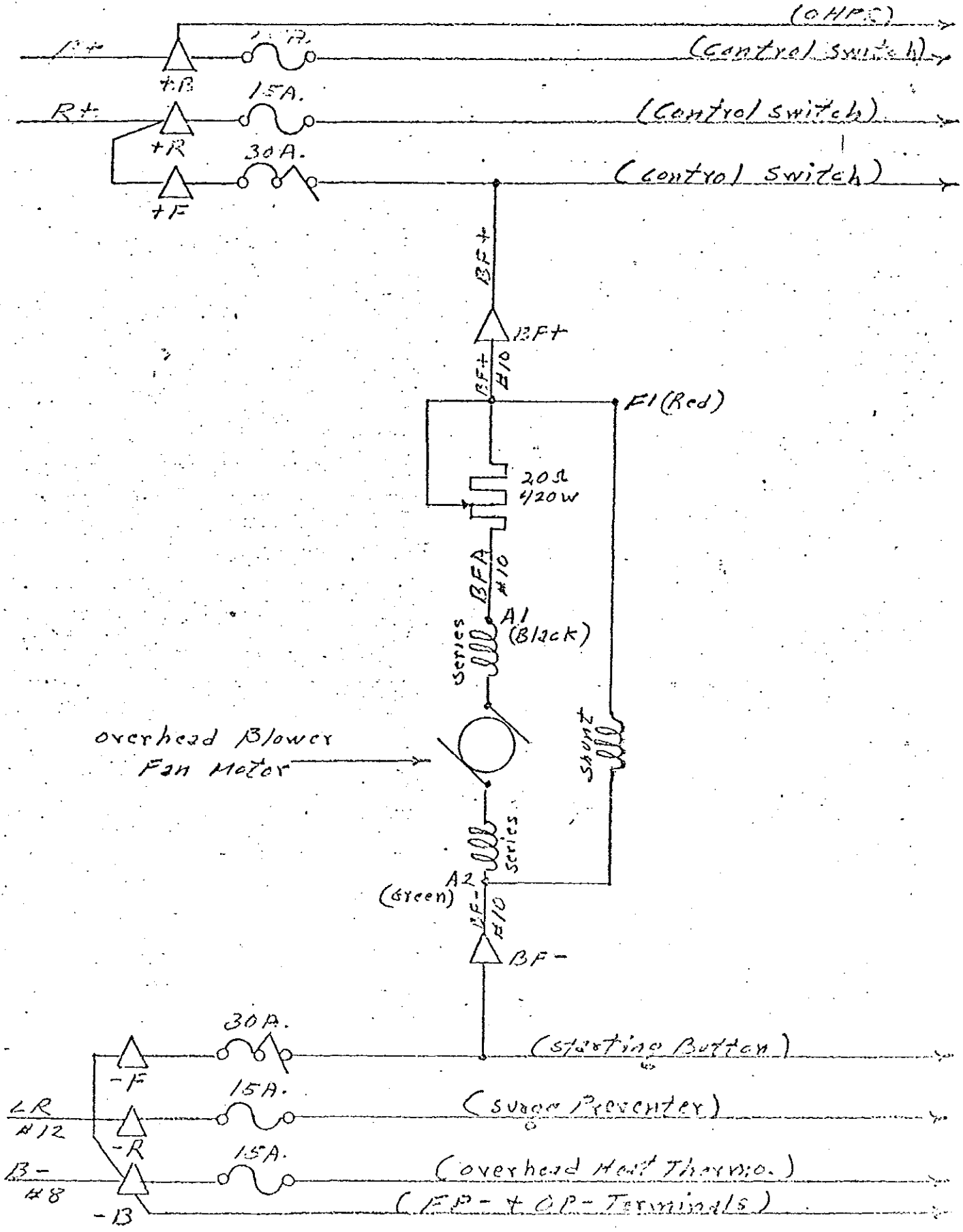
Symbol	Name	Number	Ohms	Design Degrees	Operating Temperature
OC	Overhead Heat Cycling	2550-AB	55,000	Negligible	cycling
L	Low Heat	2550-AK	4,700	6°	70°
H	High Heat	2550-AC	30,000	Negligible	76°
FC	Floor Cycling	2550-AB	55,000	Negligible	cycling
OHFH	Overhead Floor Heat	2550-AM	3,800	10°	66°

OHFH causes Floor Heat to Respond to Suit Overhead Heat



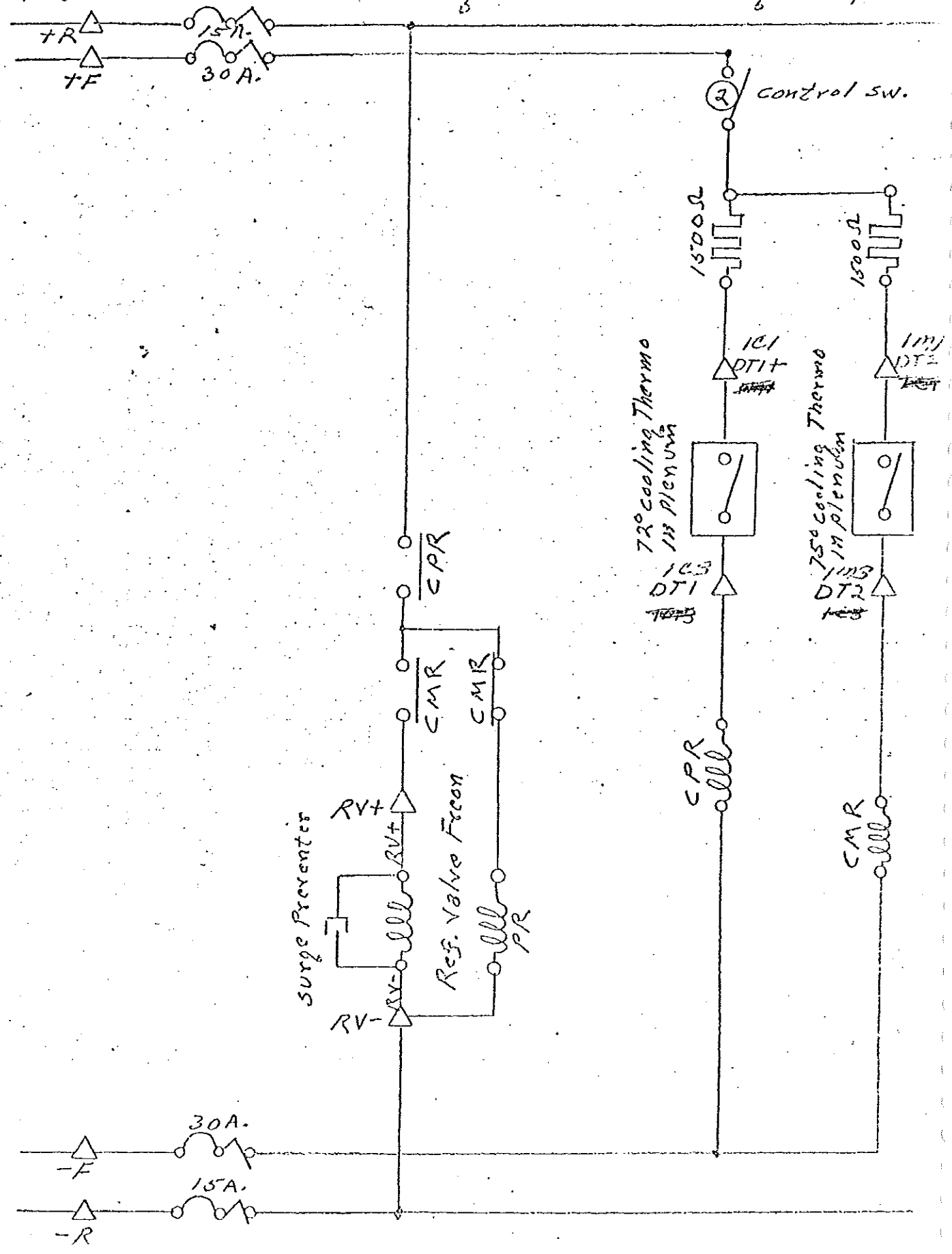


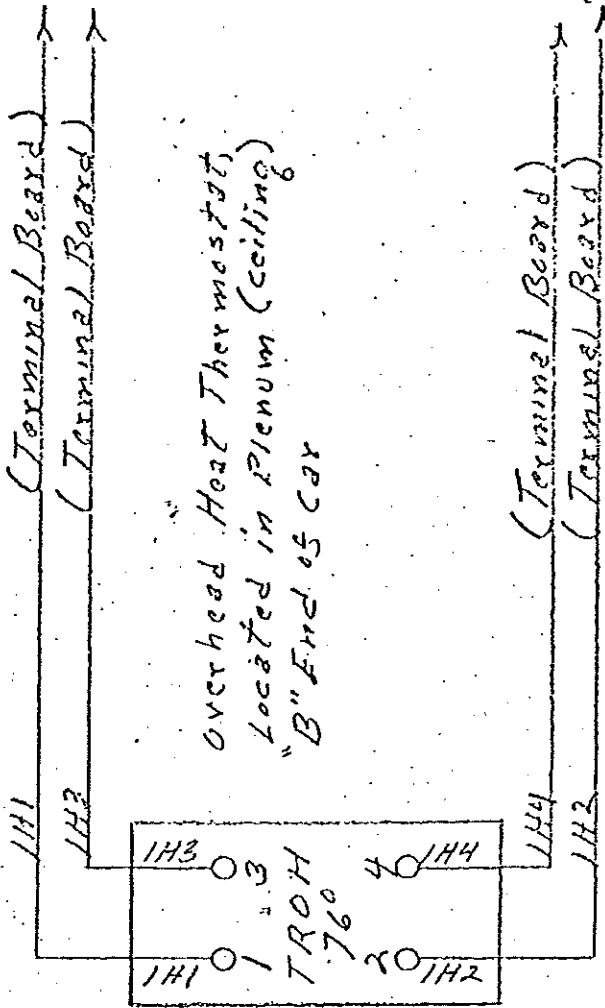
Pumps
Rotate
clockwise
Facing
commutator
End



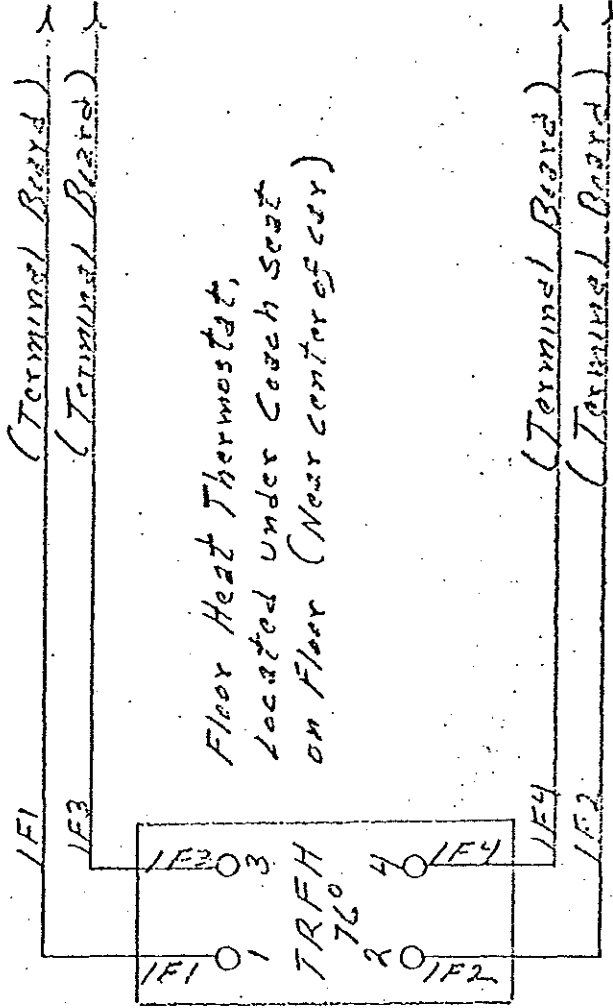
BY Rdz. Co. DATE 2/12/79 SUBJECT Cooling Thermo's
 CHKD. BY _____ DATE _____ + Surge Preventer
Amtrak B-31132 wire Diagram

SHEET NO. 4 OF _____
 JOB NO. _____
Page 3/

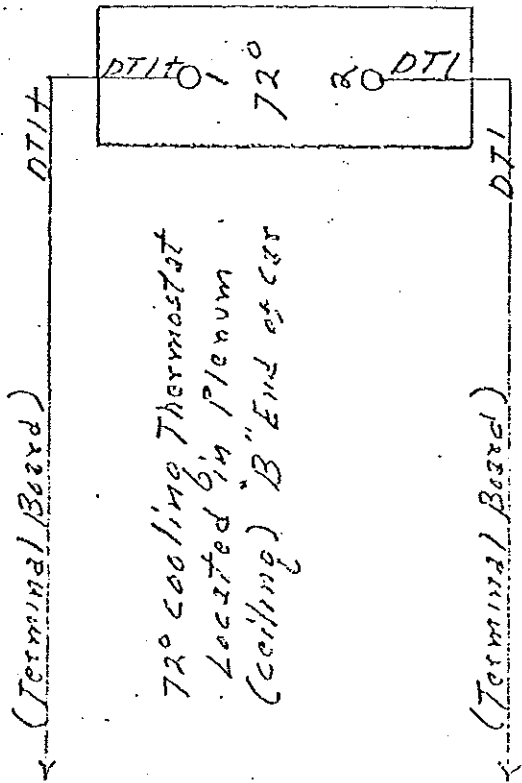




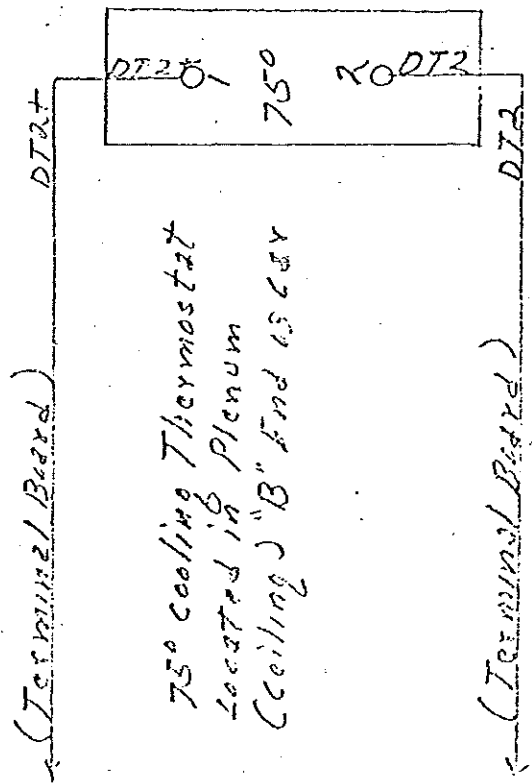
Overhead Heat Thermostat,
 Located in Plenum (ceiling)
 "B" End of car



Floor Heat Thermostat,
 Located under coach seat
 on floor (Near center of car)

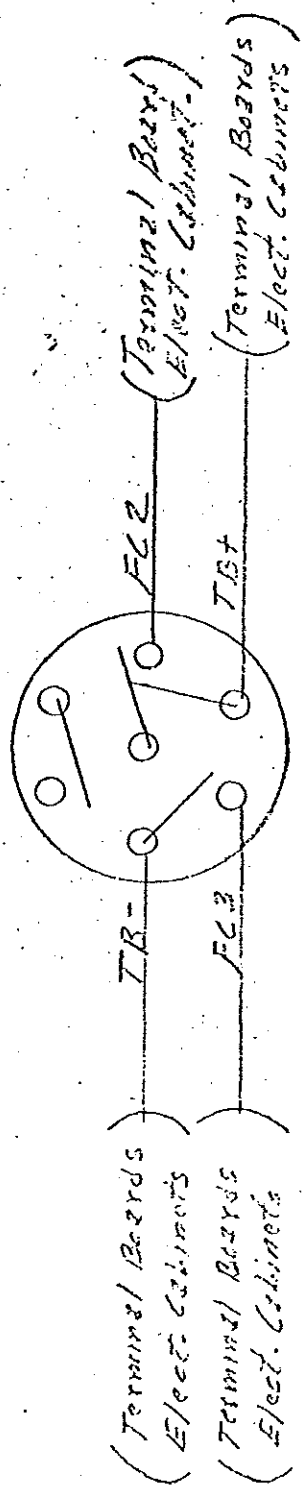


72° Cooling Thermostat
 Located in Plenum
 (ceiling) "B" End of car

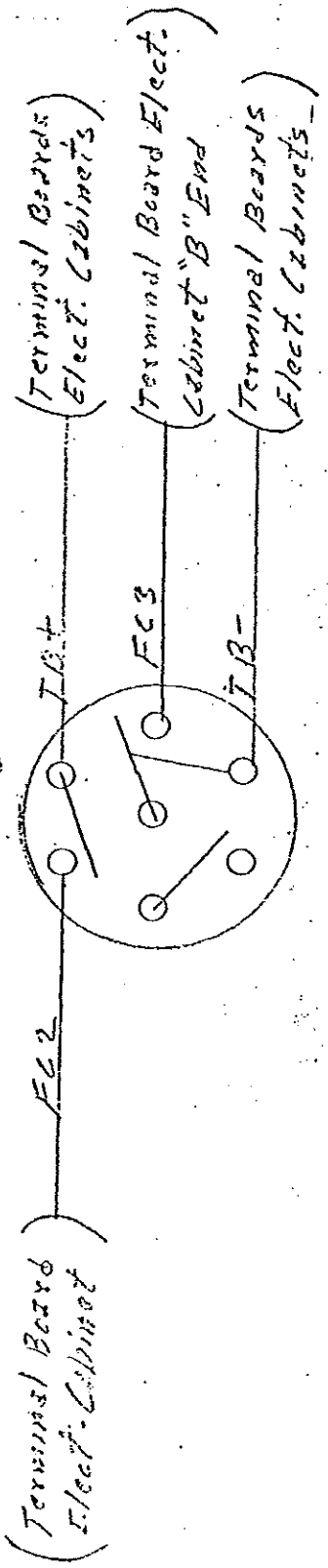


75° Cooling Thermostat
 Located in Plenum
 (ceiling) "B" End of car

"B" End Plug switch, shown with plug removed, if installed on cars
 6



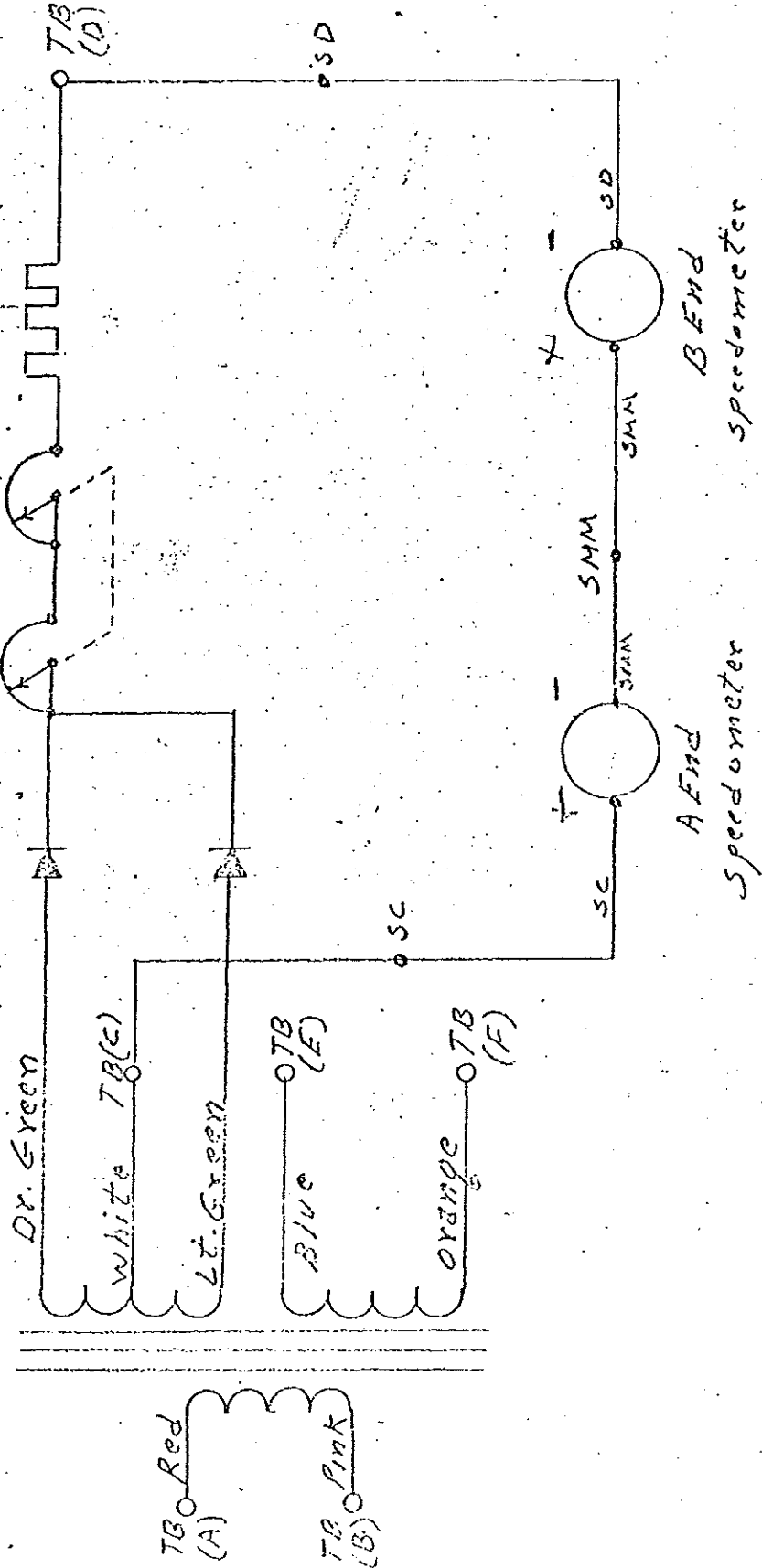
"A" End Plug Switch, shown with plug removed. If installed on cars

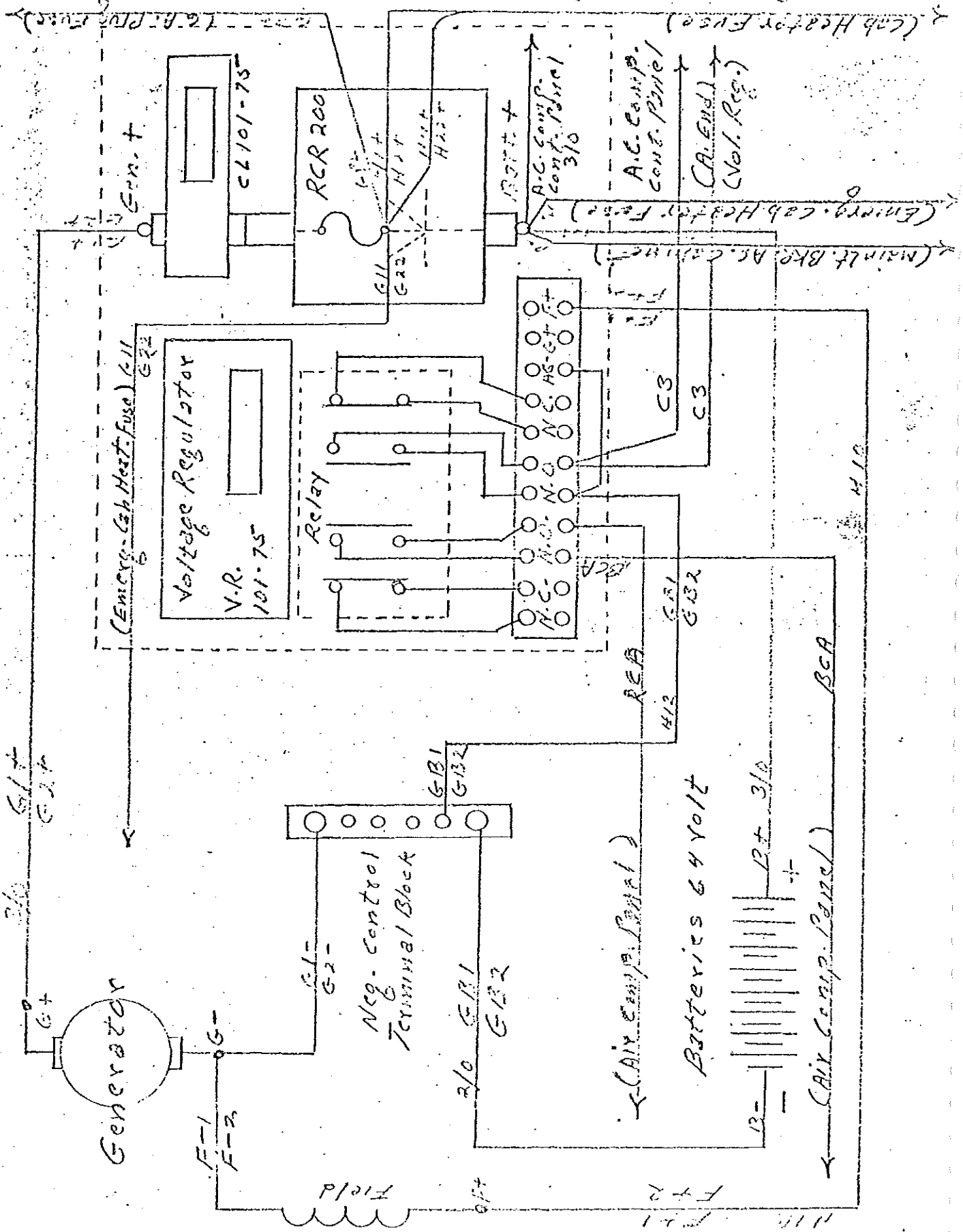


BY K. G. DATE 1/1/75
CHKD. BY Amtrak R-32 DATE 1/1

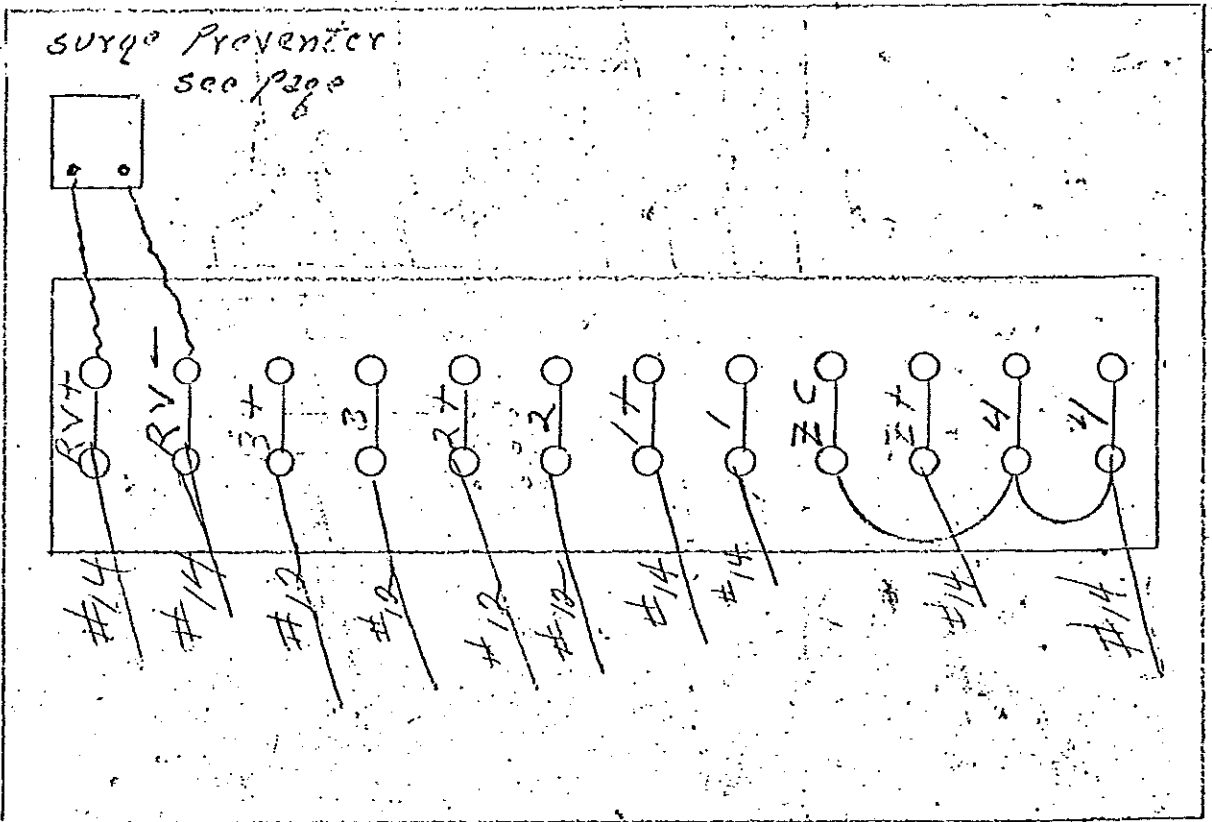
SUBJECT 17EM192A2, A3, A5, A6, +
A.T. Schematic Diagram

SHEET NO. 1 OF 1
JOB NO. Page 34

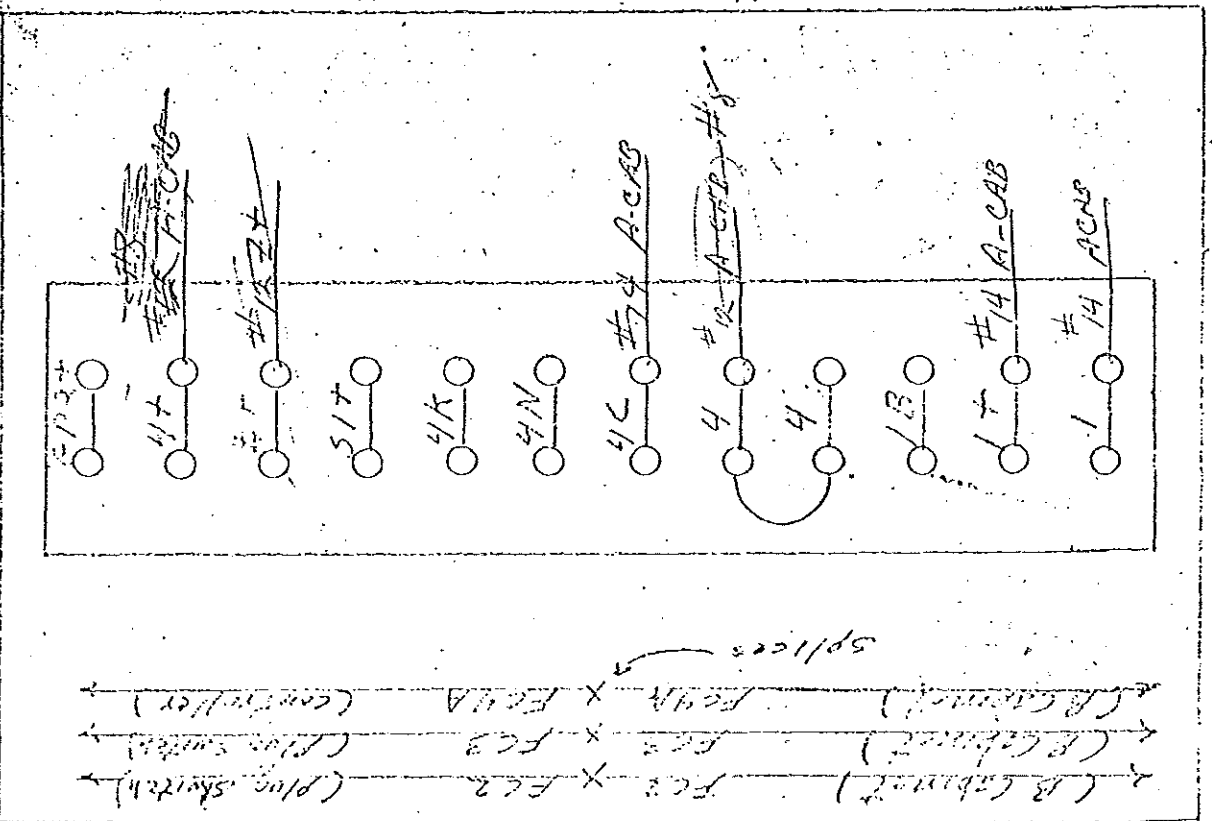




"B" End Toilet Overhead Pull Box

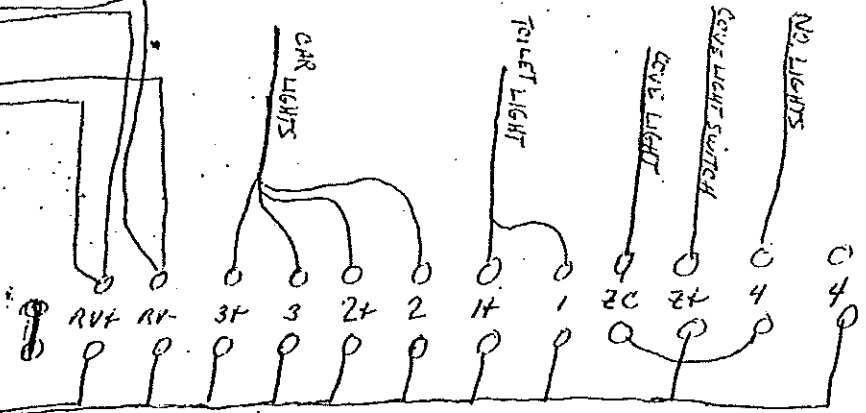


"A" End Vestibule Overhead Pull Box

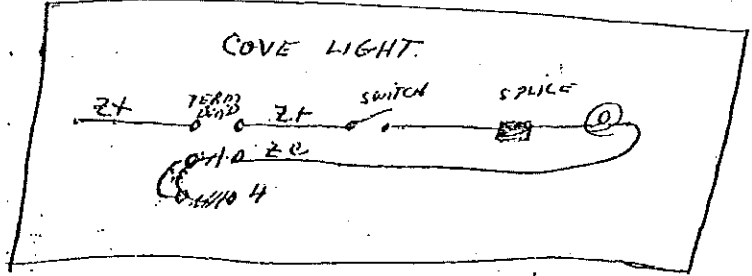


FREQ. SOL. VALVE

SURGE PREVENT.

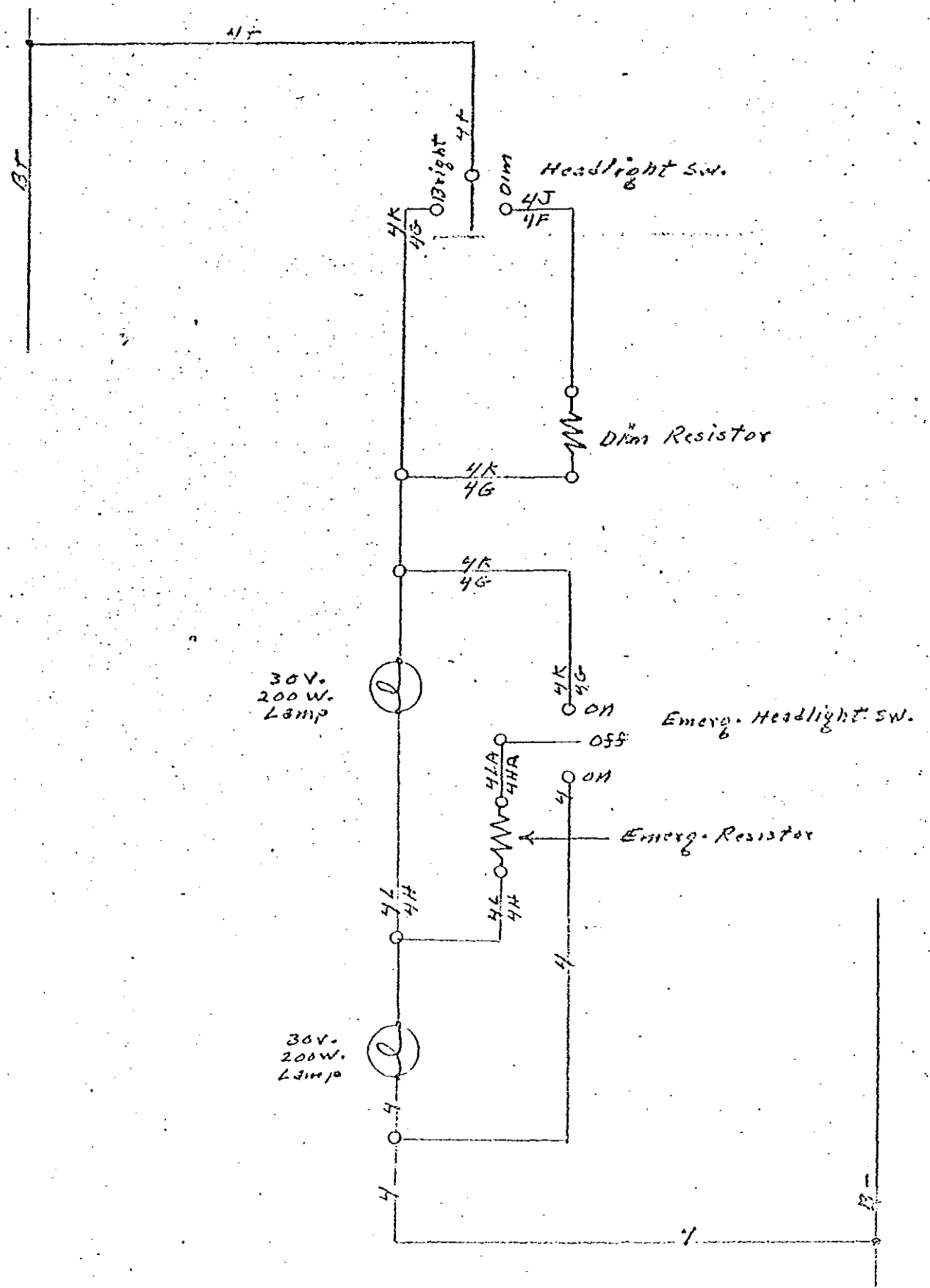


TO ELECT CABINET



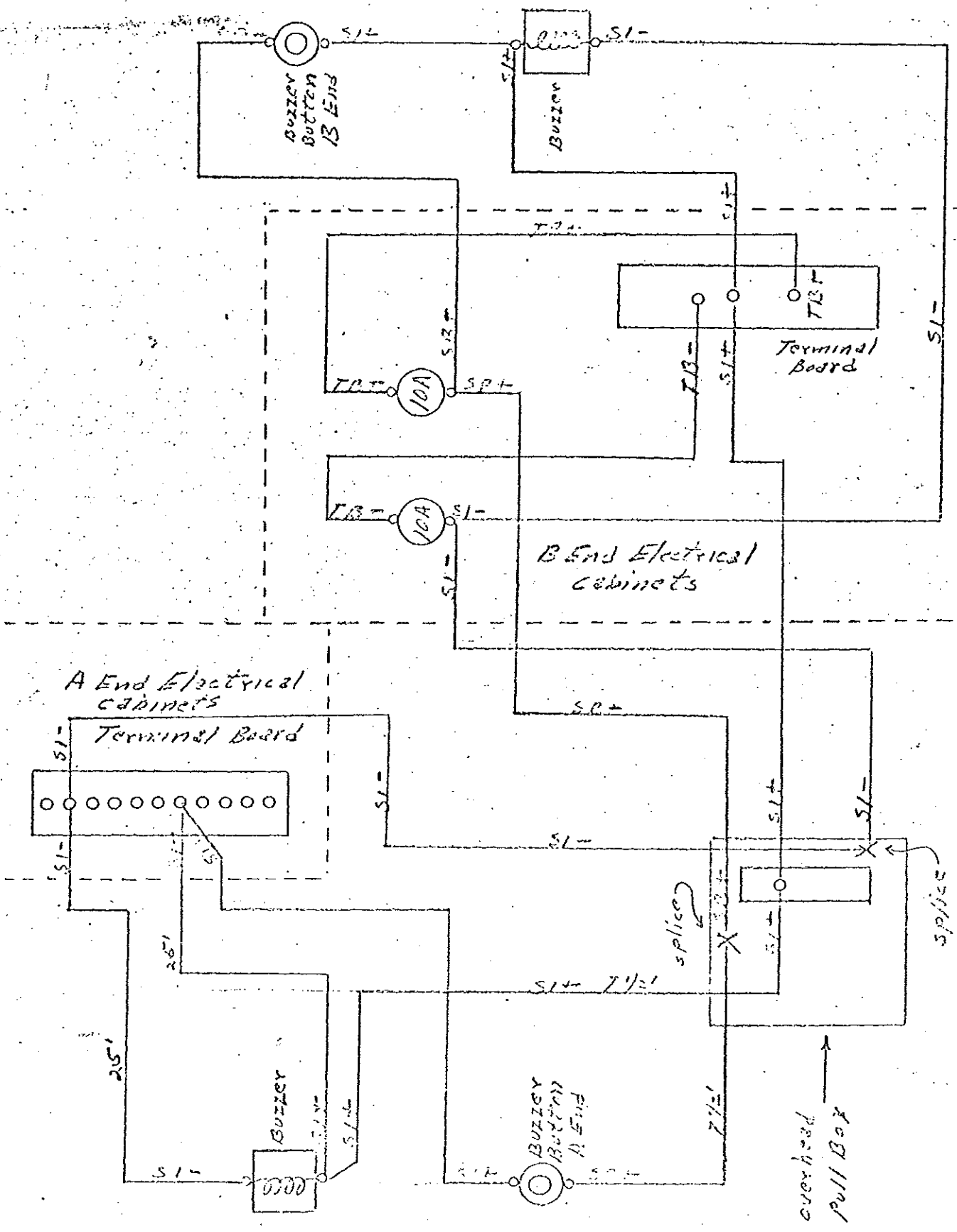
BY R. de Car. DATE 12/1/73 SUBJECT A+B Headlight
 CHKD. BY _____ DATE _____ Schematic
Amtrak B-31432

SHEET NO. _____ OF _____
 JOB NO. _____
Page 40
6



BY R. J. Co. DATE 10/2/73 SUBJECT Engineers Buzzer
 CHKD. BY _____ DATE _____ CIRCUITS
Ametek P-30-31432 A + B Ends

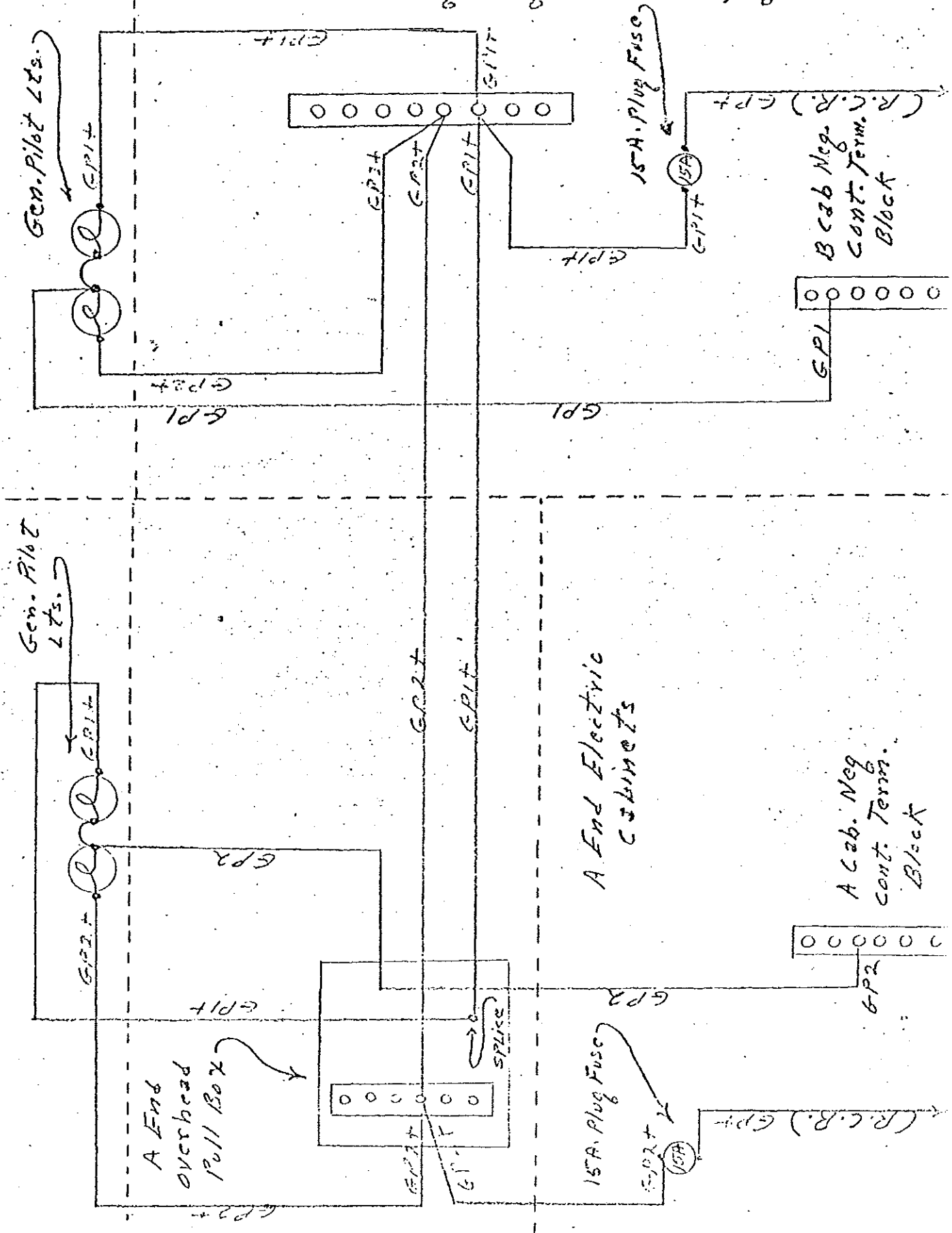
SHEET NO. _____ OF _____
 JOB NO. _____
Page 43
6



BY Rdg. Co. DATE 7/2/23
 CHKD. BY _____ DATE _____
Analyst R-32

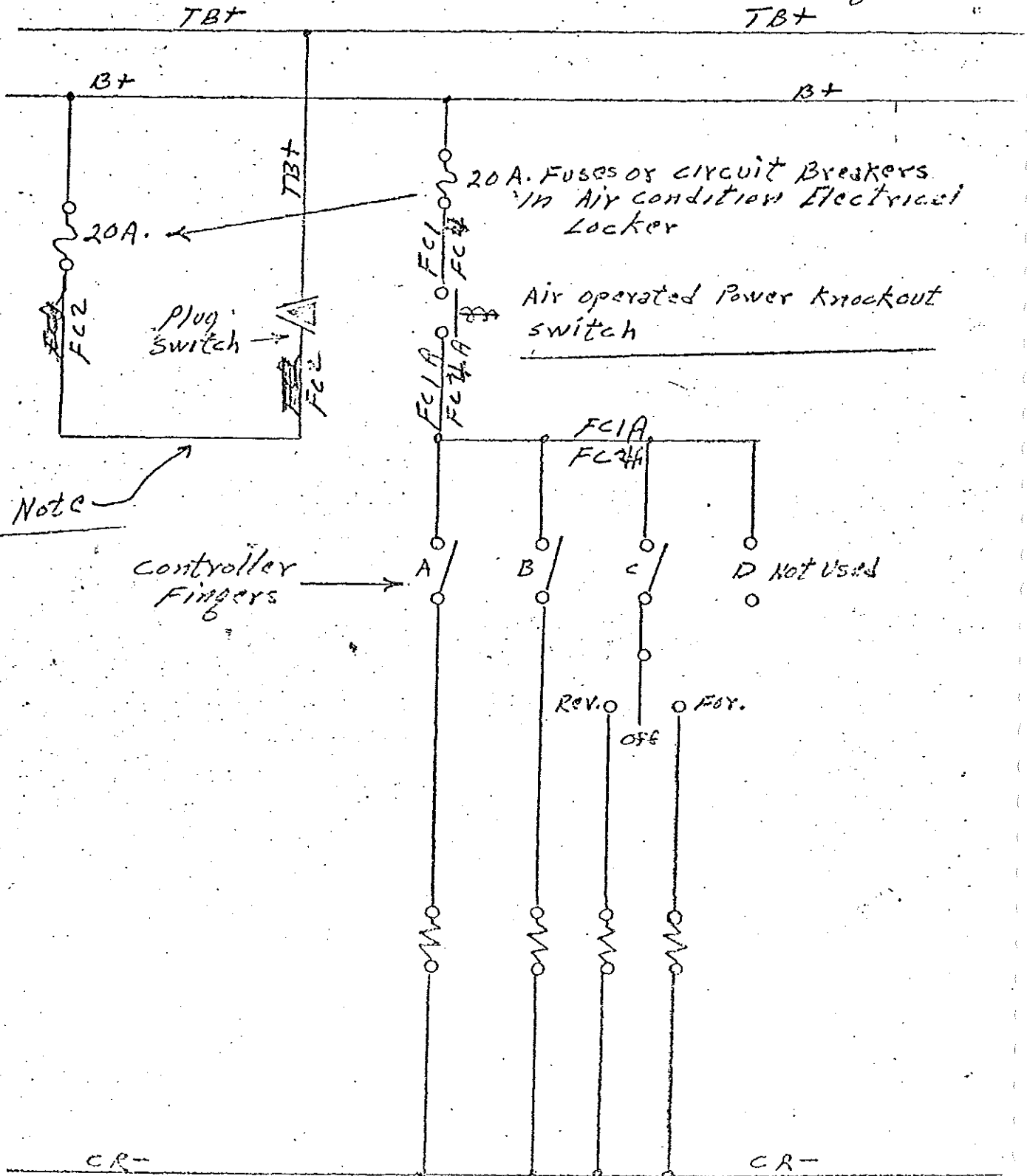
SUBJECT Generator Pilot
Wiring Diagram
Units A + B Cabs

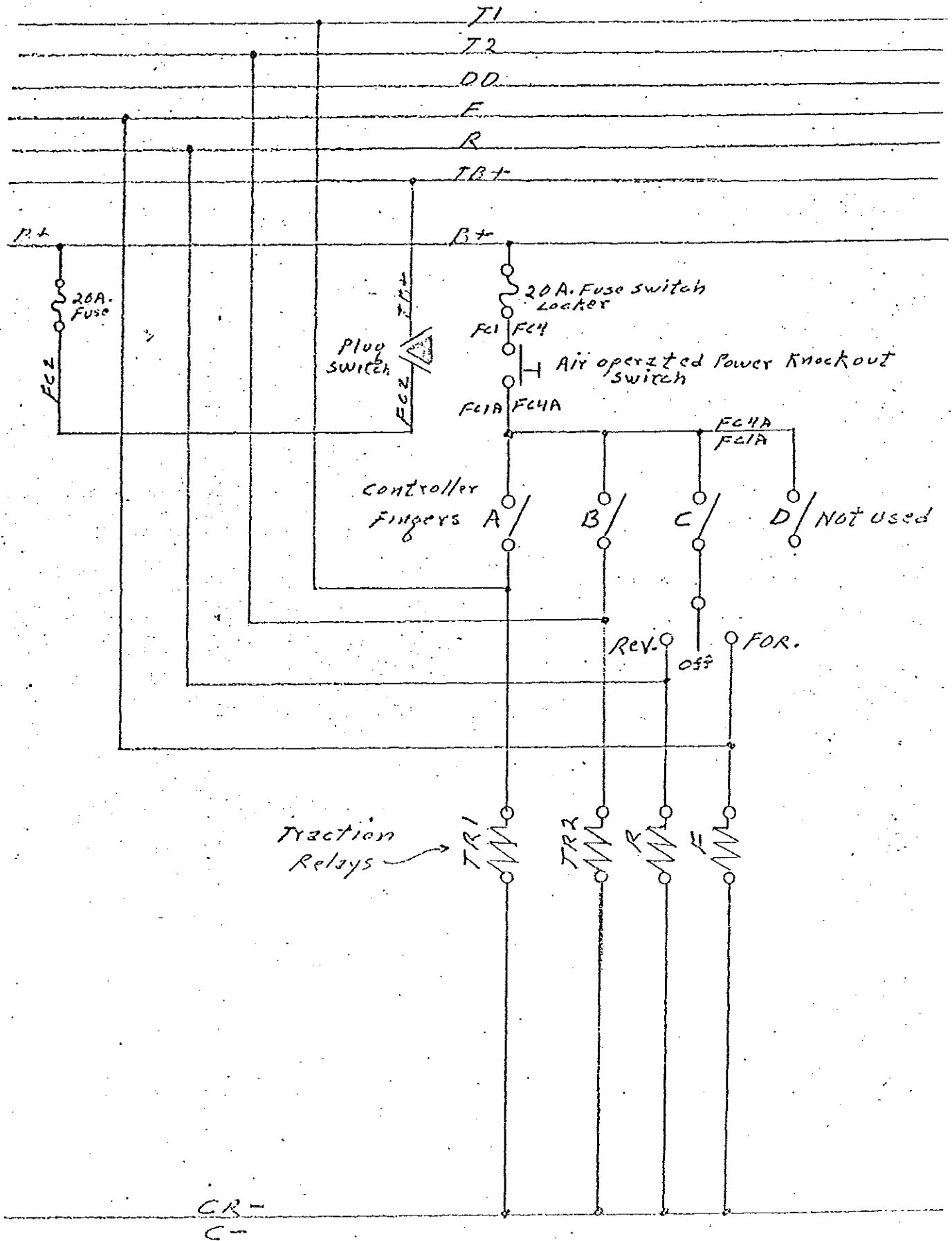
SHEET NO. 1 OF 1
 JOB NO. _____
Page 2/4

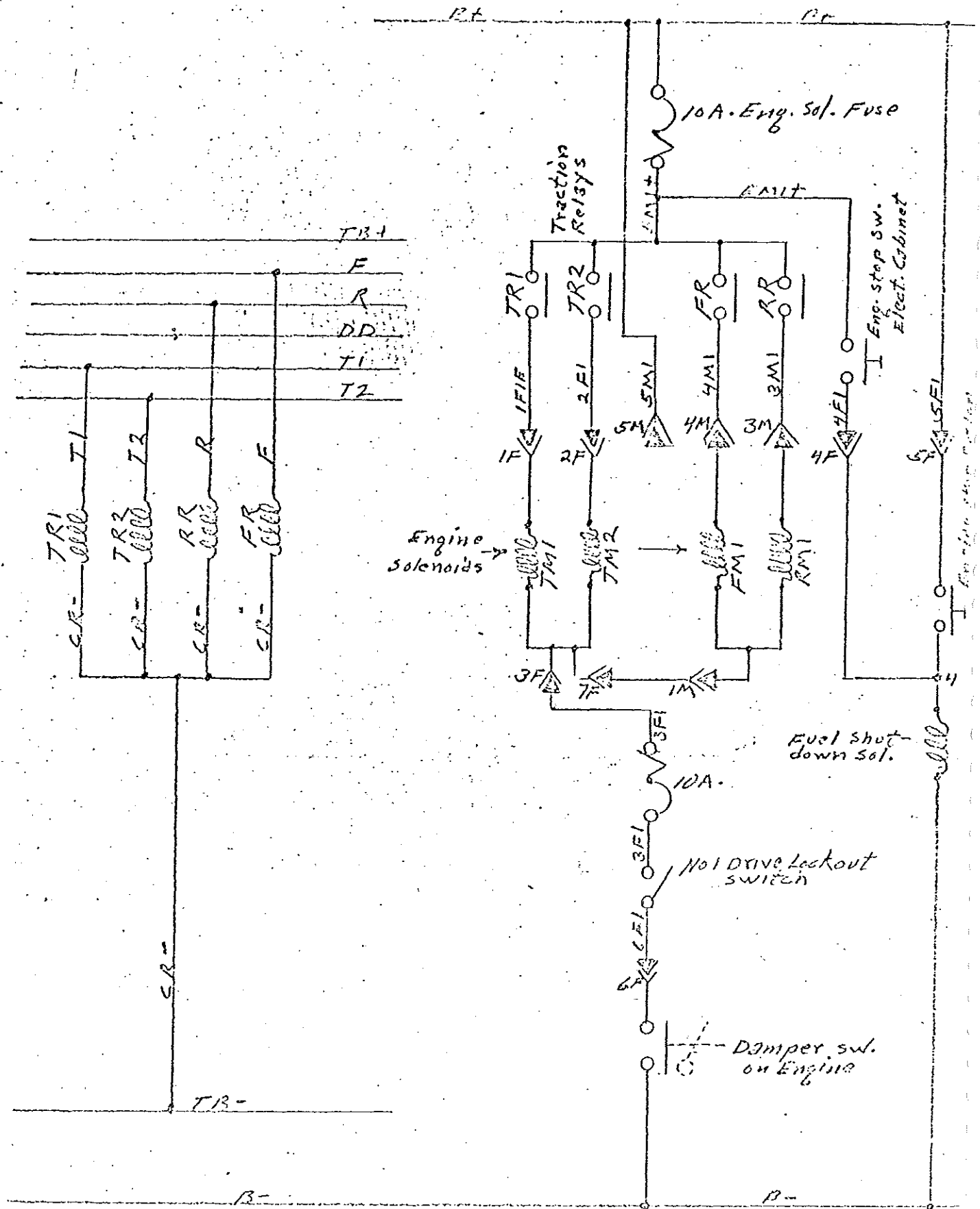


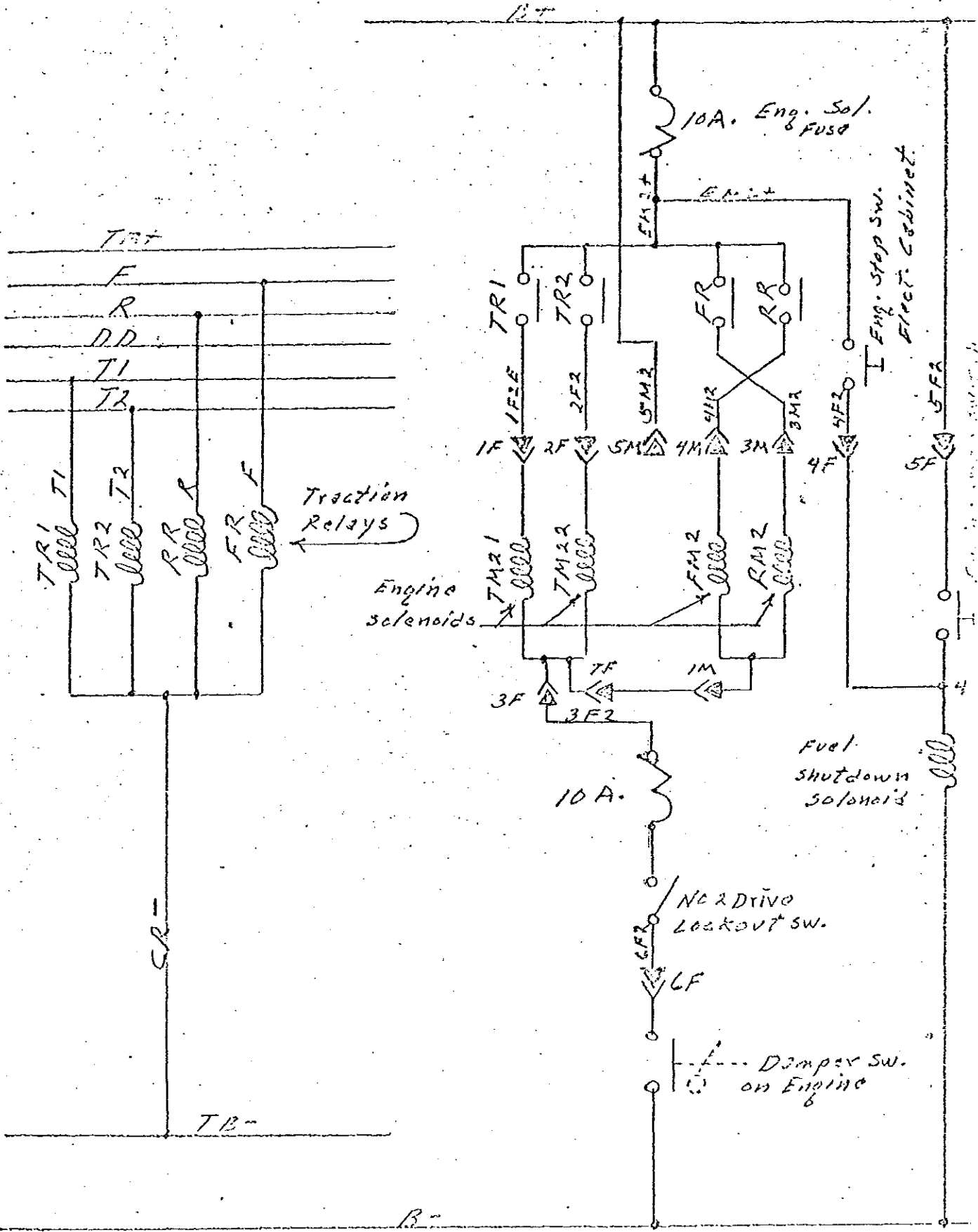
BY Rdg. Co. DATE 11/20/73 SUBJECT Power Knockout
 CHKD. BY _____ DATE _____ SWITCH & Plug Switch
 Avitrah B-31432 Wired Right DIR 302

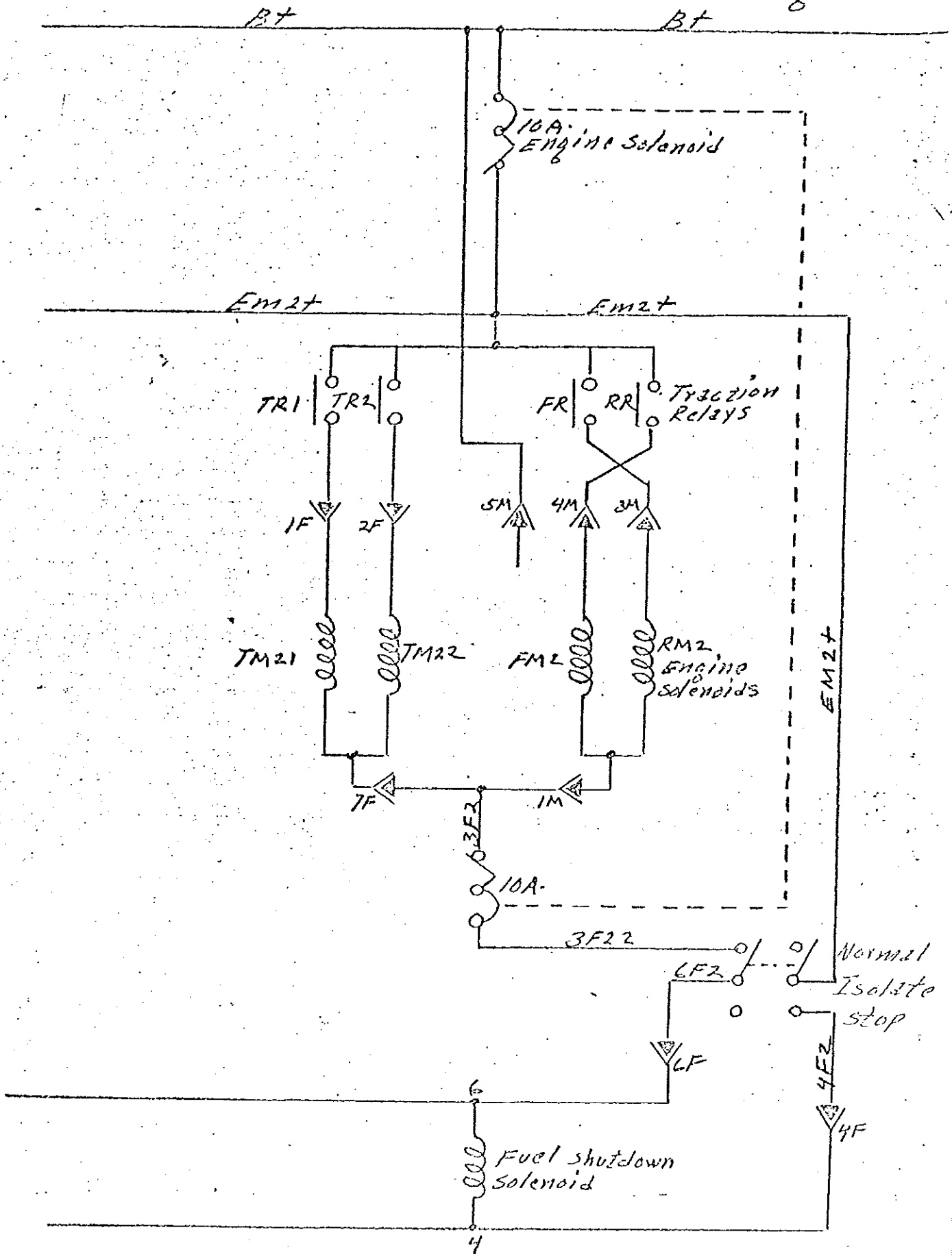
SHEET NO. _____ OF _____
 JOB NO. _____
 A+B ENJS
 Page 46
 6

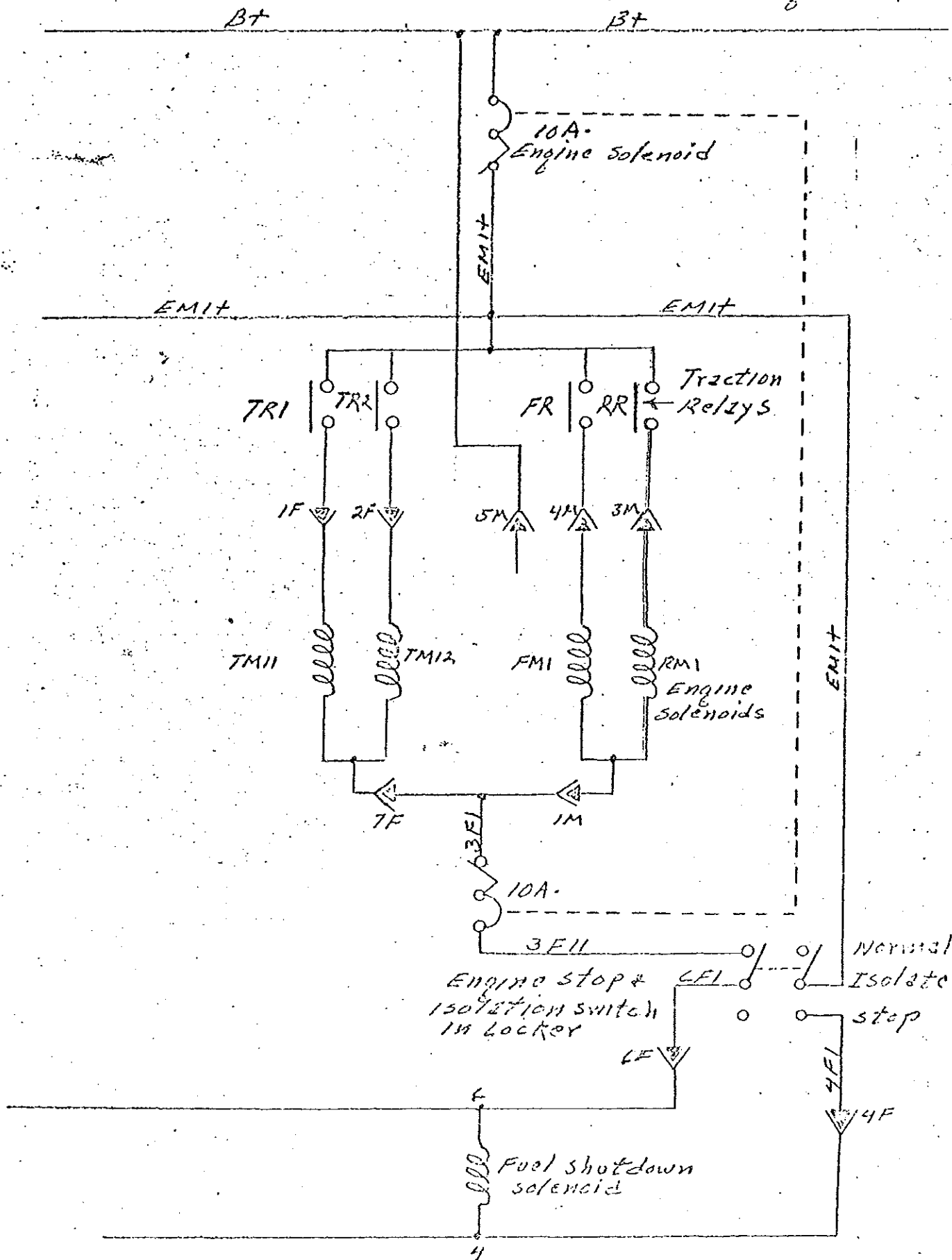


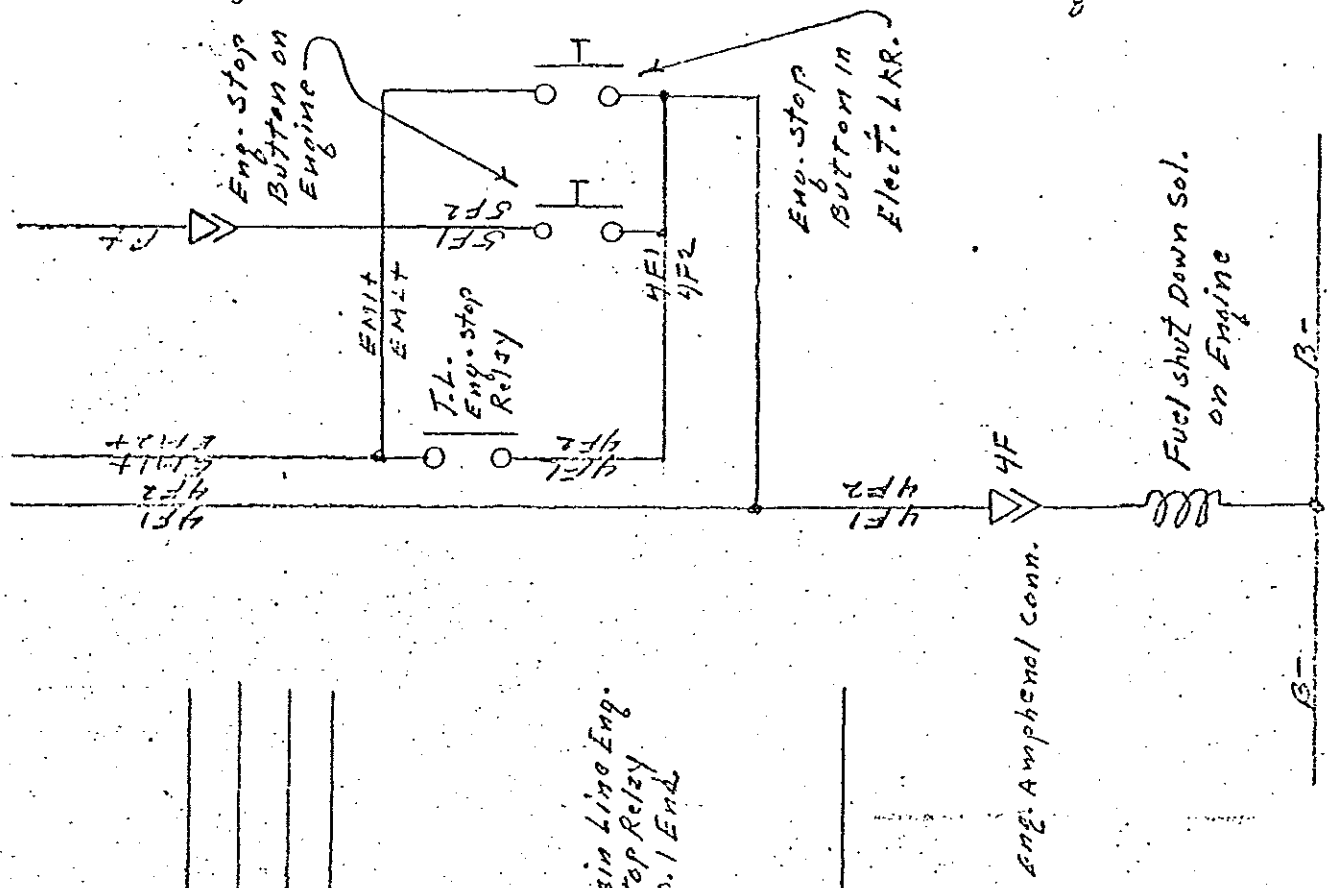
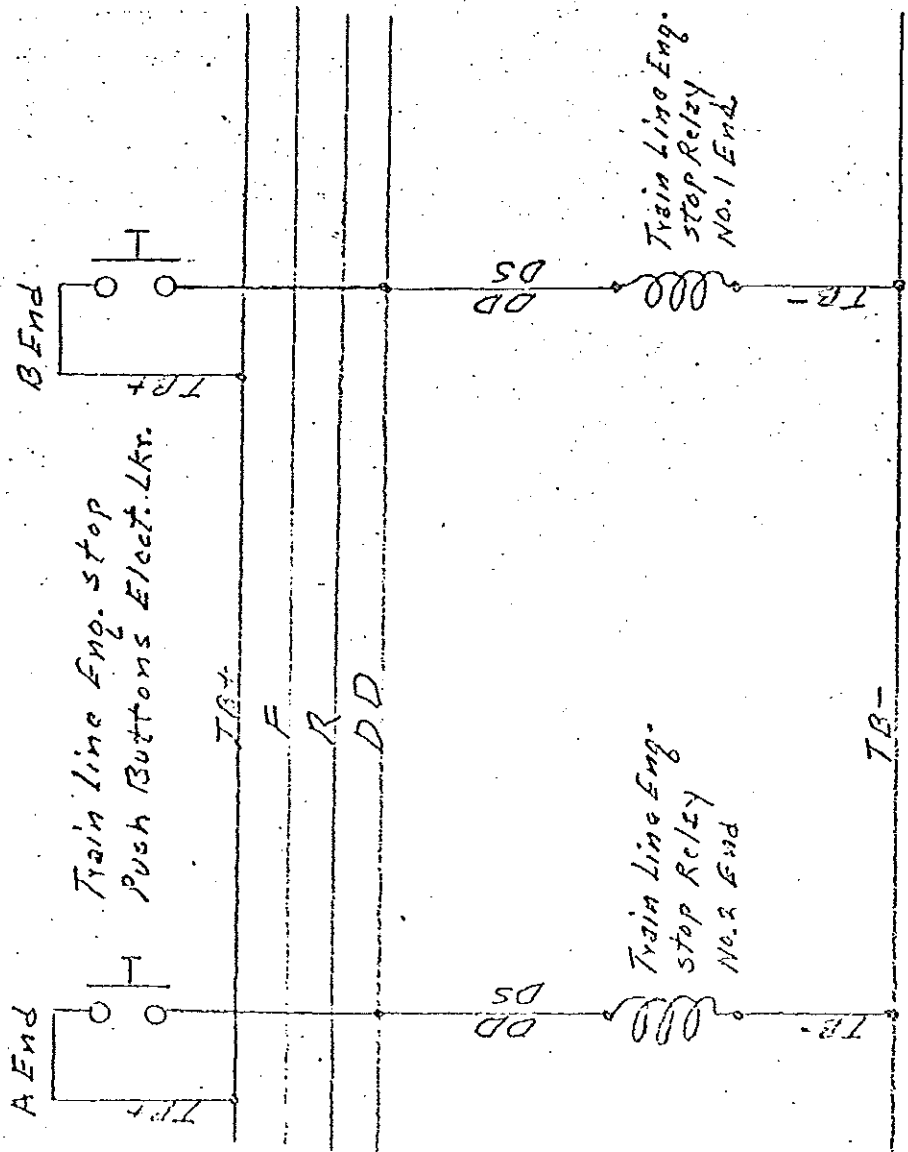


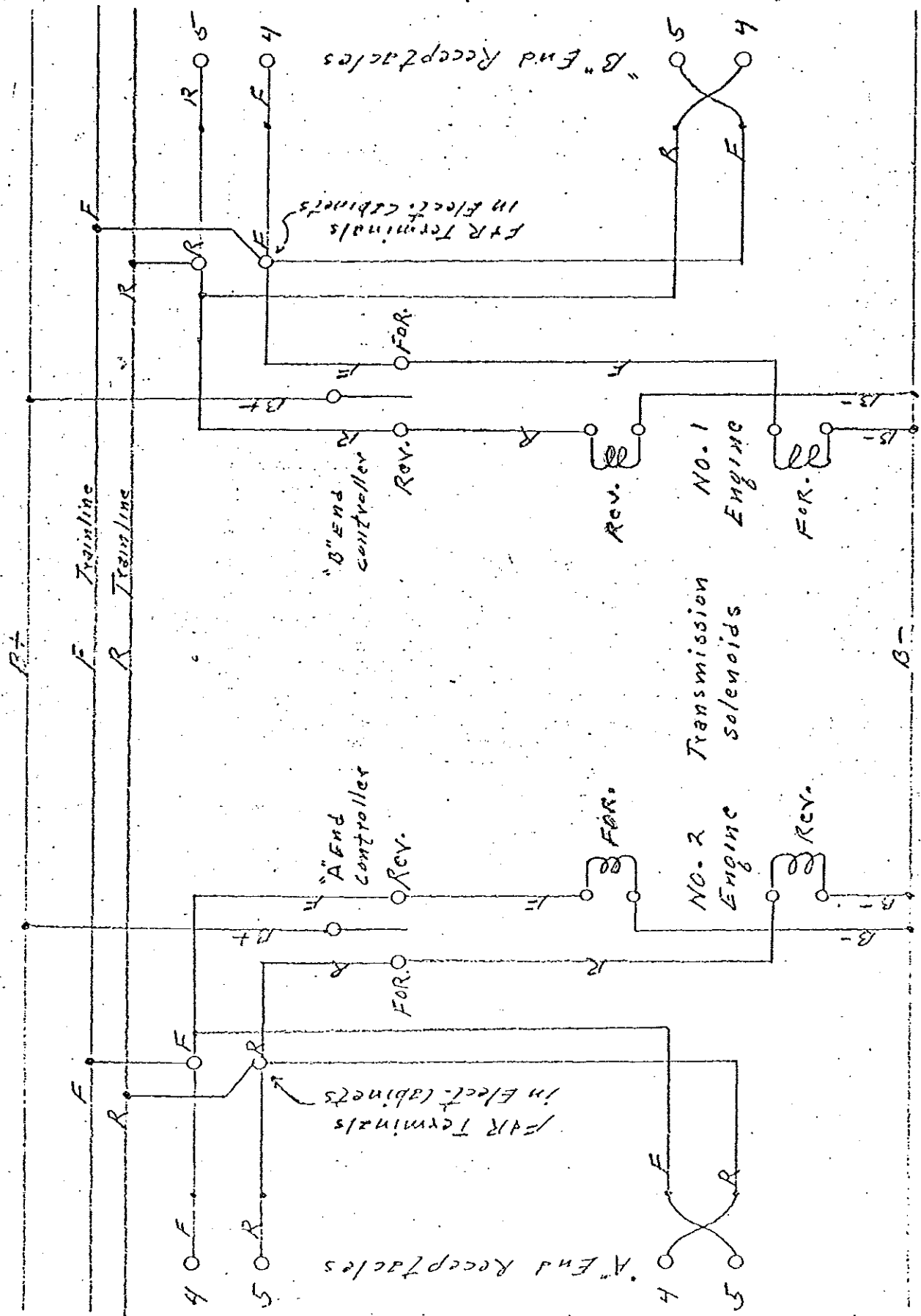


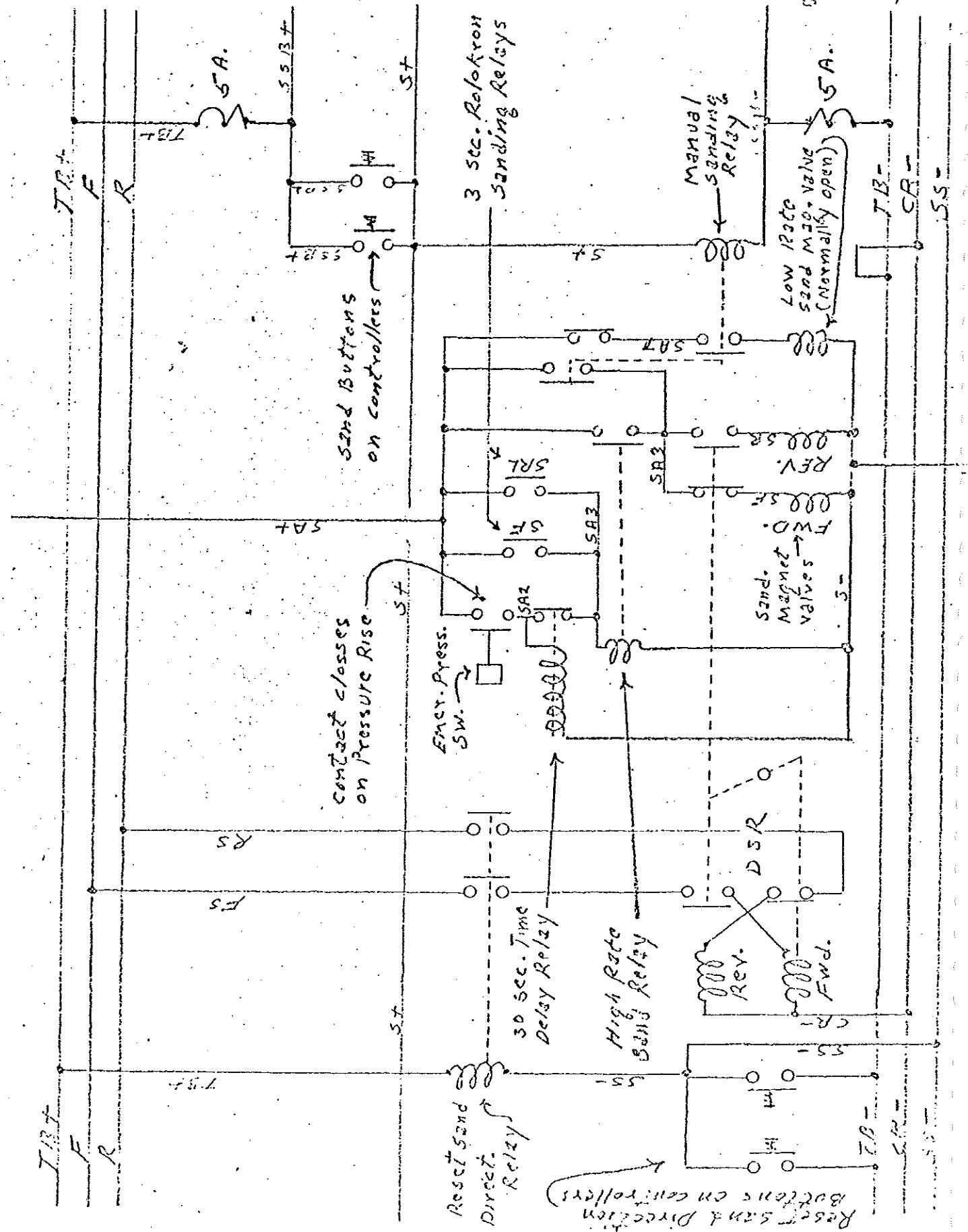


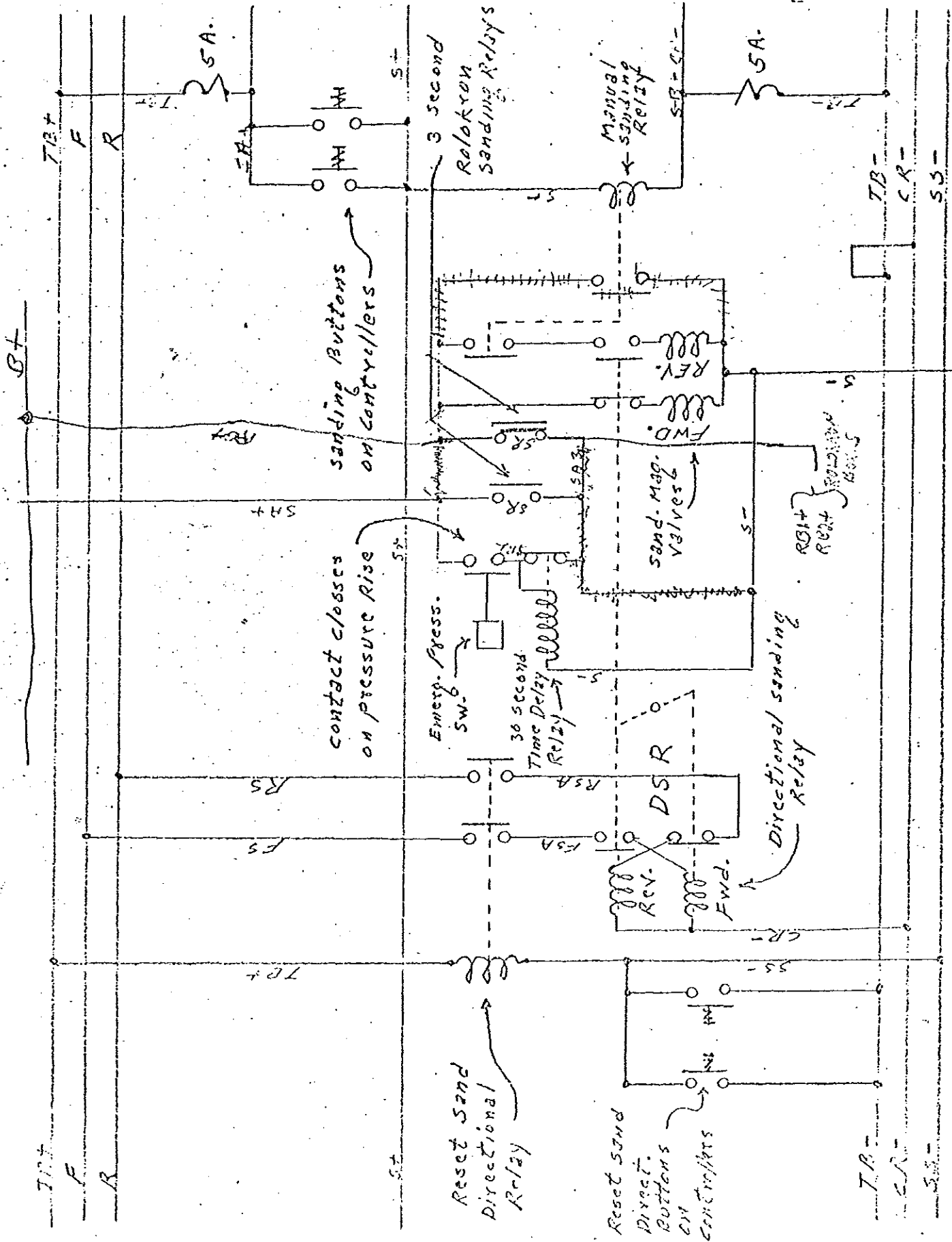


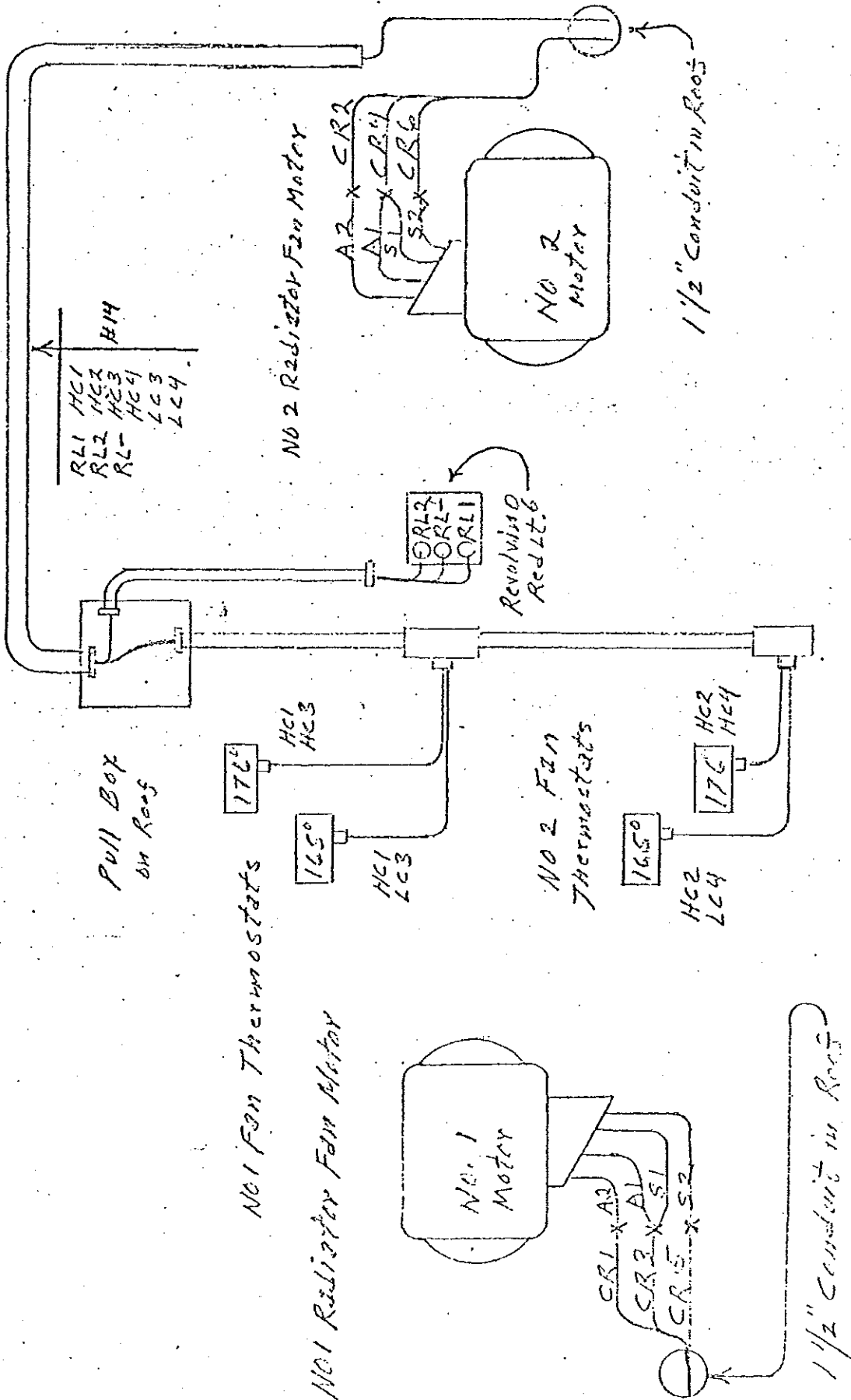












Pull Box
on Roof

No. 1 Thermostats

No. 1 Radiator Fan Motor

No. 2 Fan
Thermostats

No. 2 Radiator Fan Motor

Revolving
Red Lt. 6

1 1/2" Conduit in Roof

1 1/2" Conduit in Roof

RL1 HC1
RL2 HC2
RL3 HC3
RL4 HC4
LM

17C
HC1
HC3

16.5°
HC1
LC3

17C
HC2
HC4

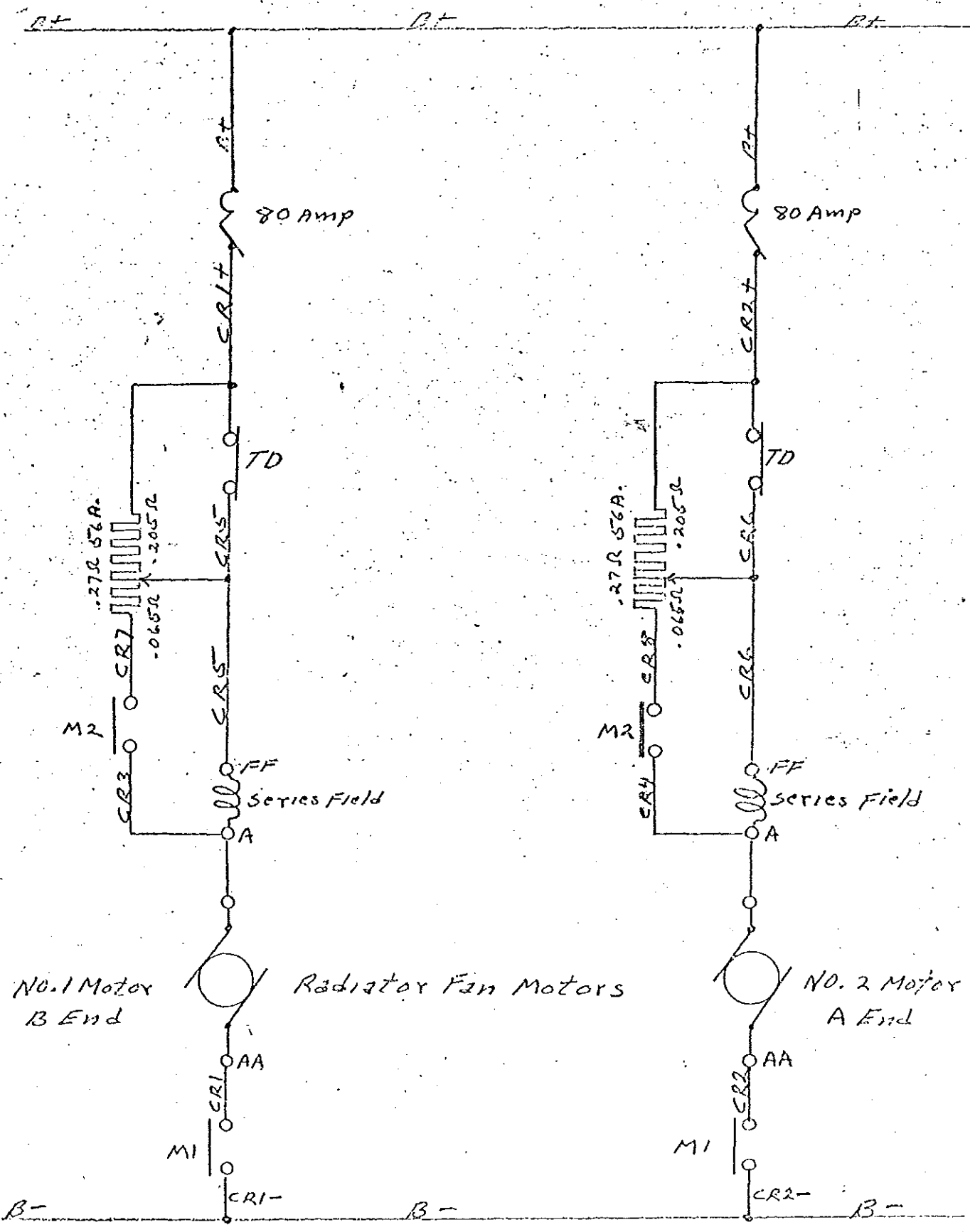
No. 1
Motor

CR1 x A2
CR2 x A1
CR5 x S1
CR6 x S2

No. 2
Motor

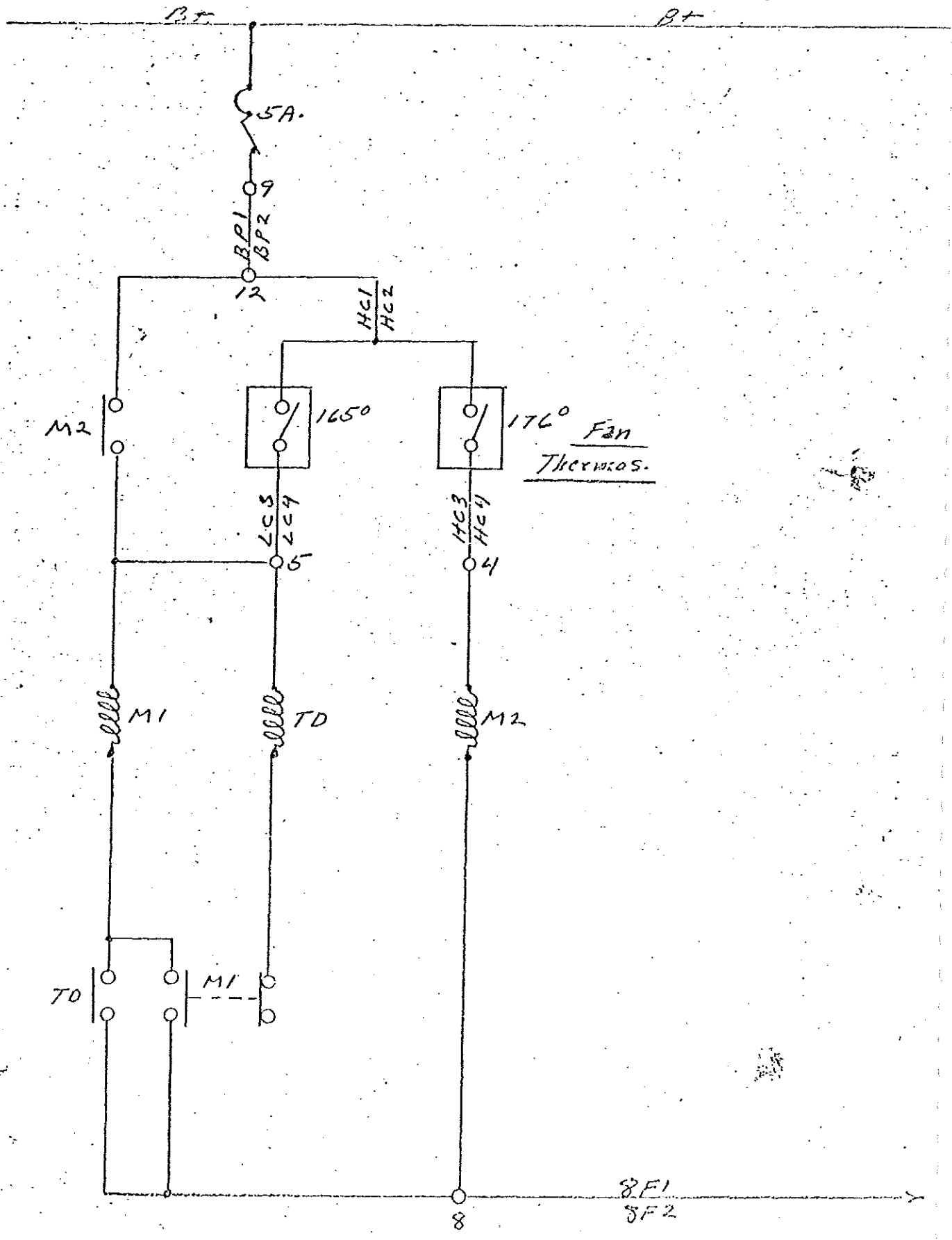
A2 x CR2
A1 x CR4
S1 x CR4
S2 x CR6

ORL2
ORL1
ORL1



BY Rdg. Co. DATE 11/19/73 SUBJECT Fan Panels Control
 CHKD. BY _____ DATE _____ Panel Schematic
Amtrak B-30 Wiring Diagram

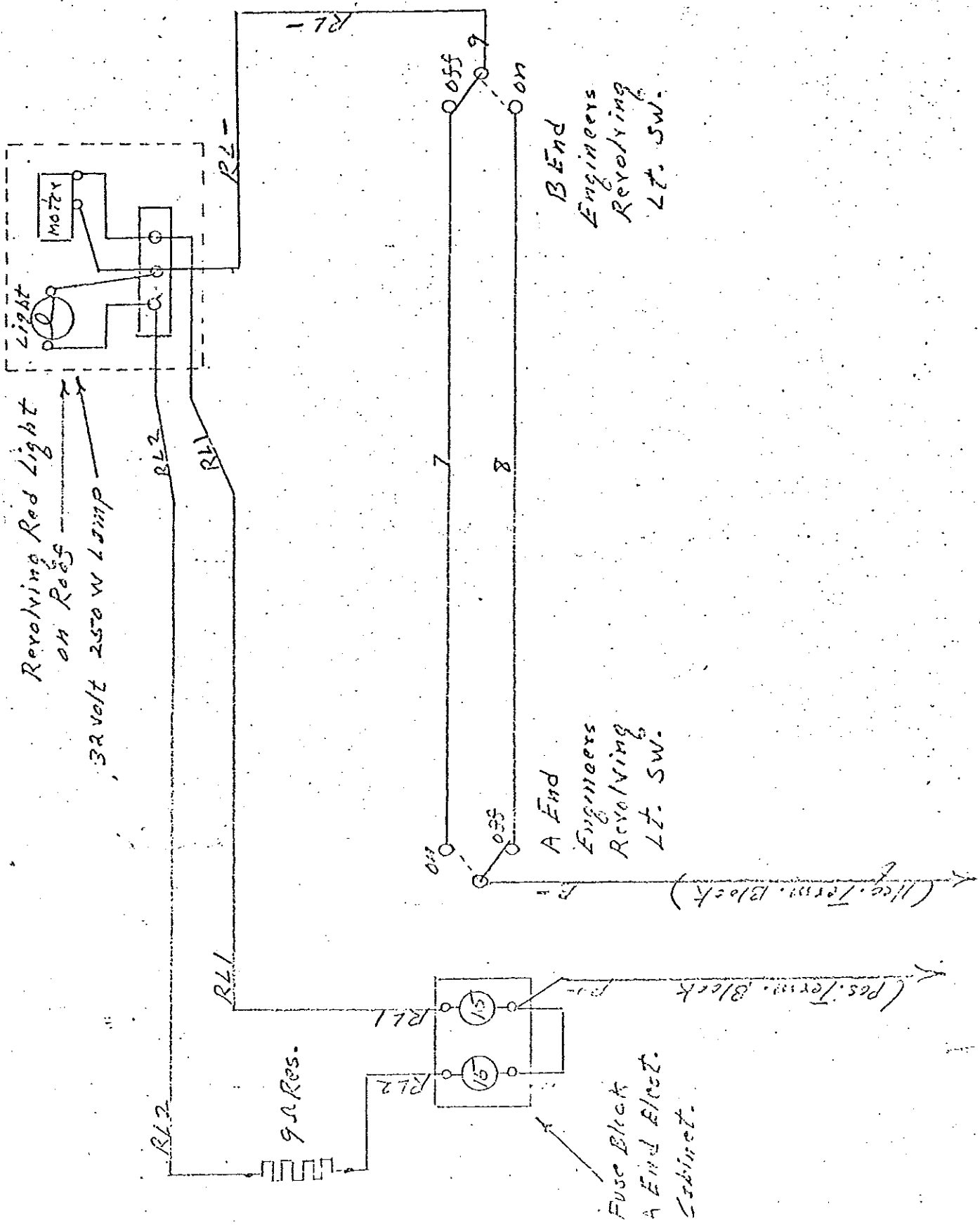
SHEET NO. 2 OF 2
 JOB NO. Page 58



BY R. G. Co DATE 7/4/23
CHKD. BY _____ DATE _____
Amtrak P-32

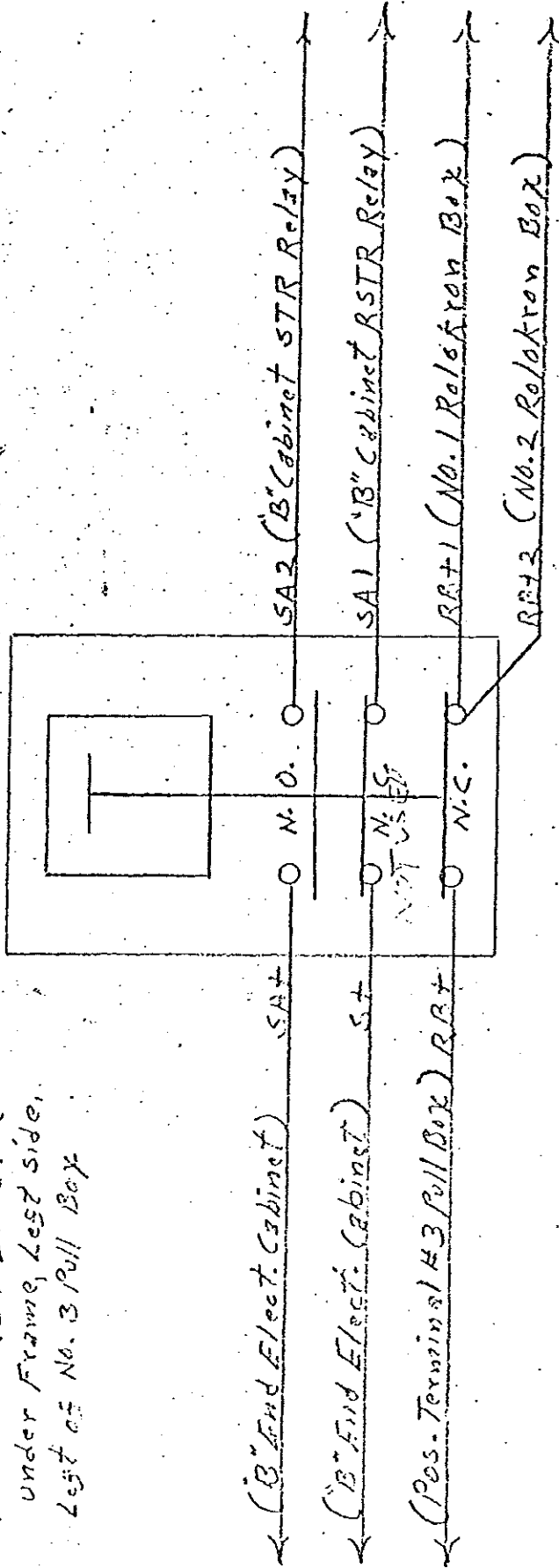
SUBJECT Revolving Red
Light Circuit
6

SHEET NO. 1 OF 1
JOB NO. _____
Page 59

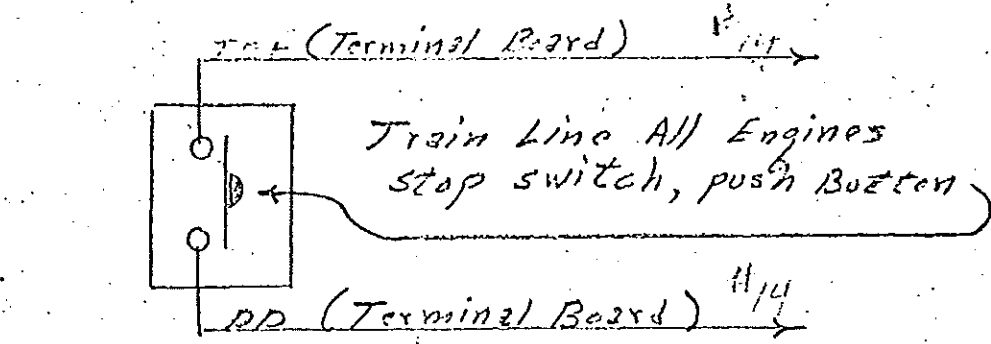


Air Pressure Sanding Switch

This switch located under frame, left side, left of No. 3 Pull Box

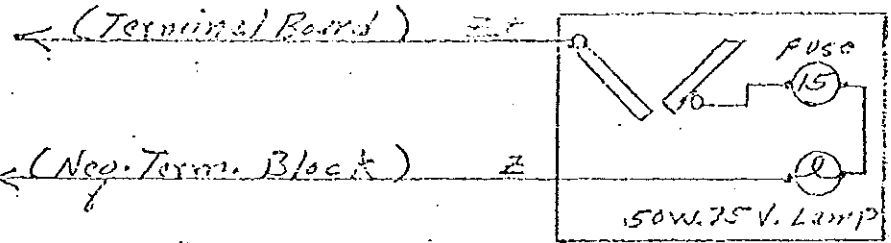
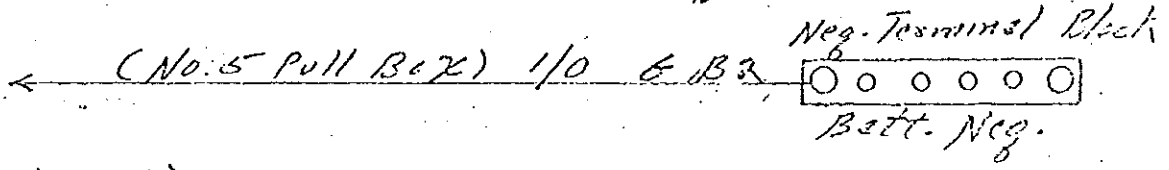
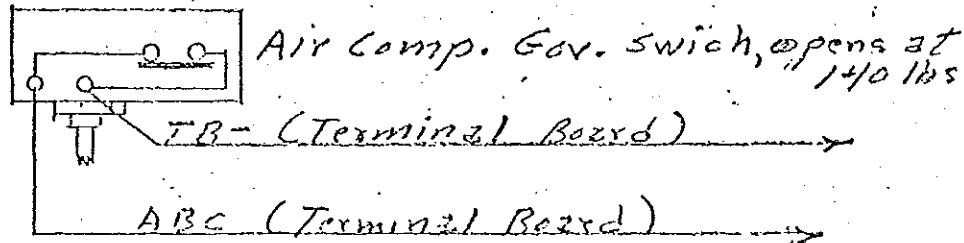
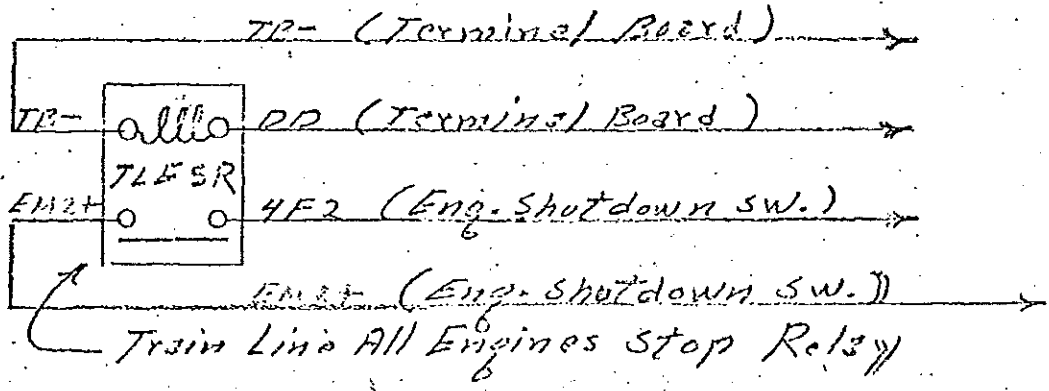


SA1 - NOT USED WITH MERCURY TUBE RSTR (ROLOKRON SANDING TIMER RELAY)

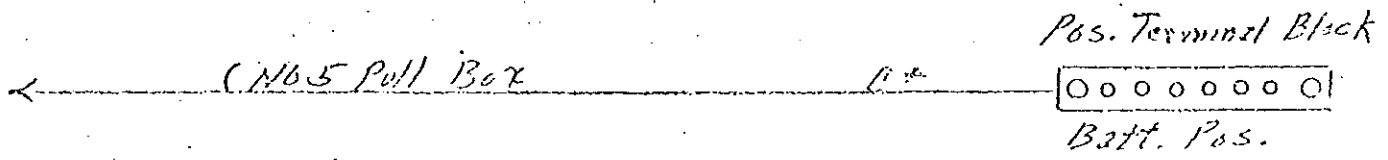


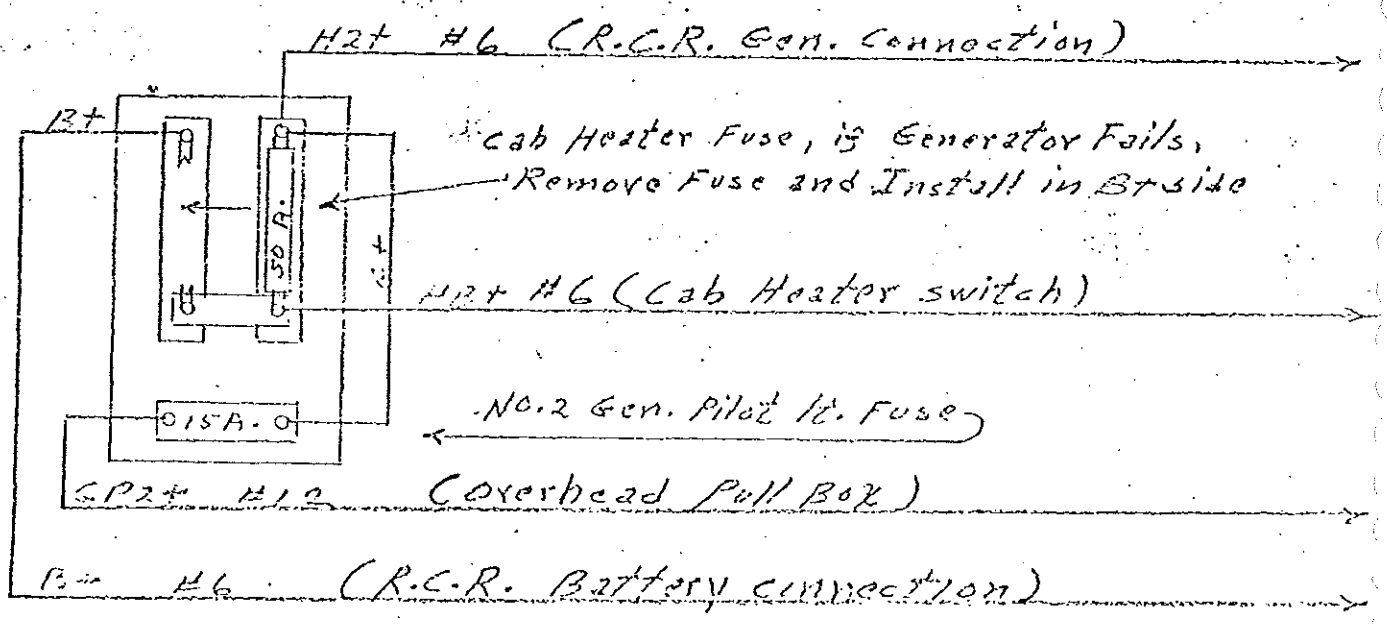
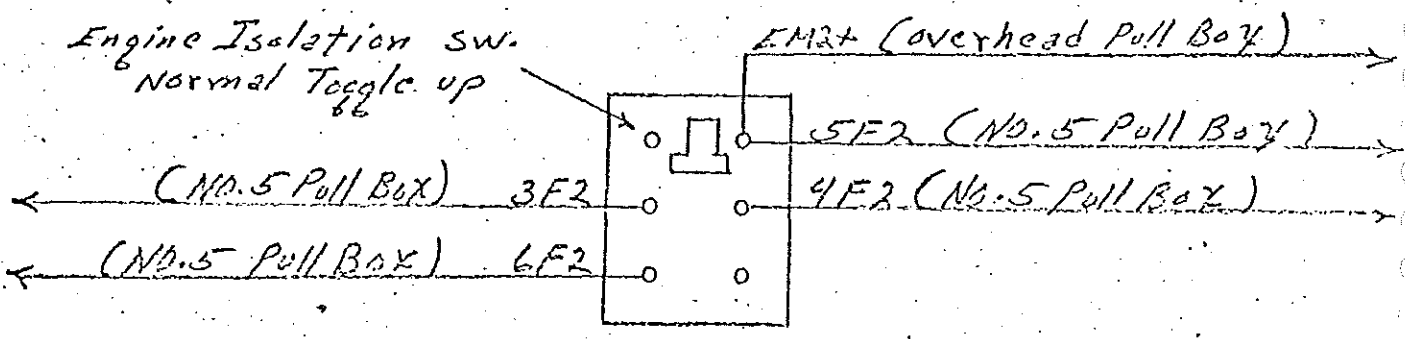
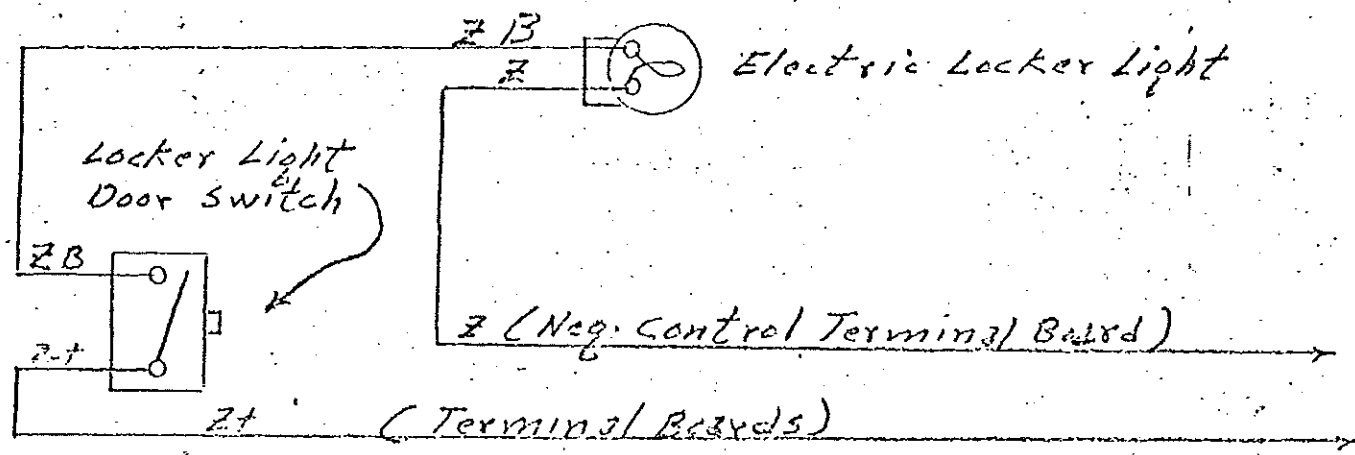
A Cab Terminal Boards

- DD
- R
- F
- T1
- T2
- S+
- S1+
- C-
- TR-
- TR+
- SS-
- ABC

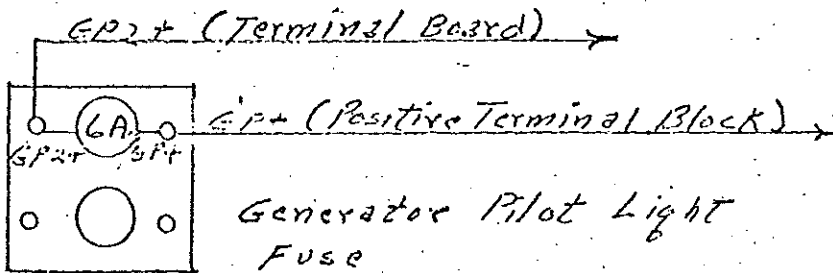
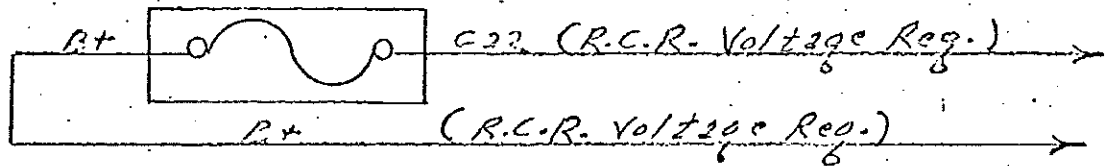


Fuse Test Board

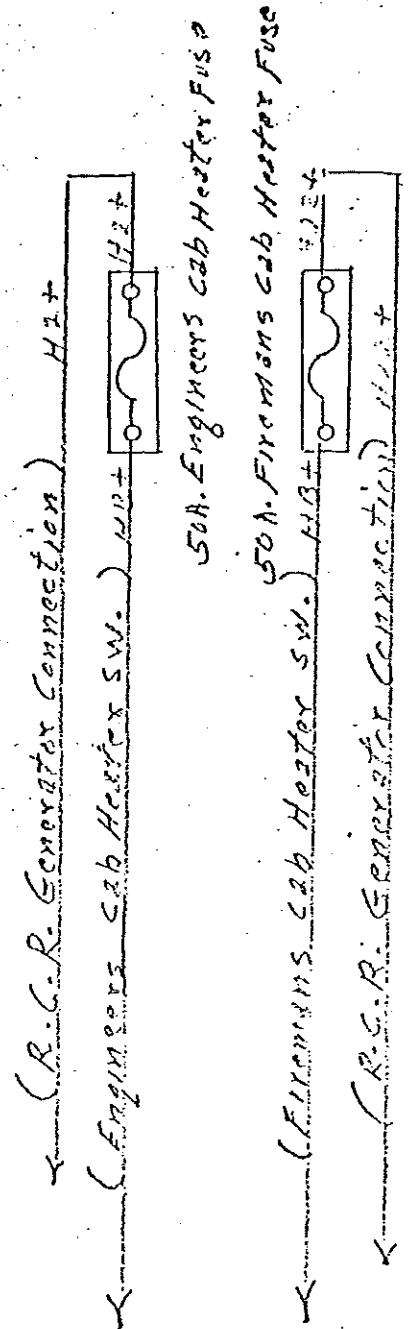
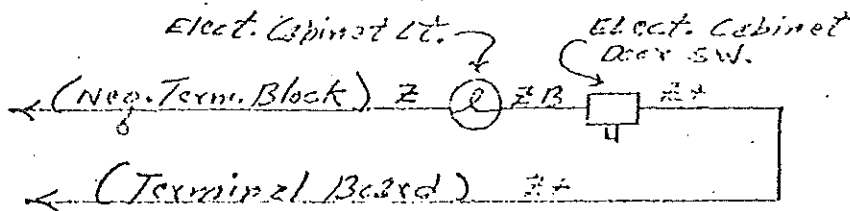
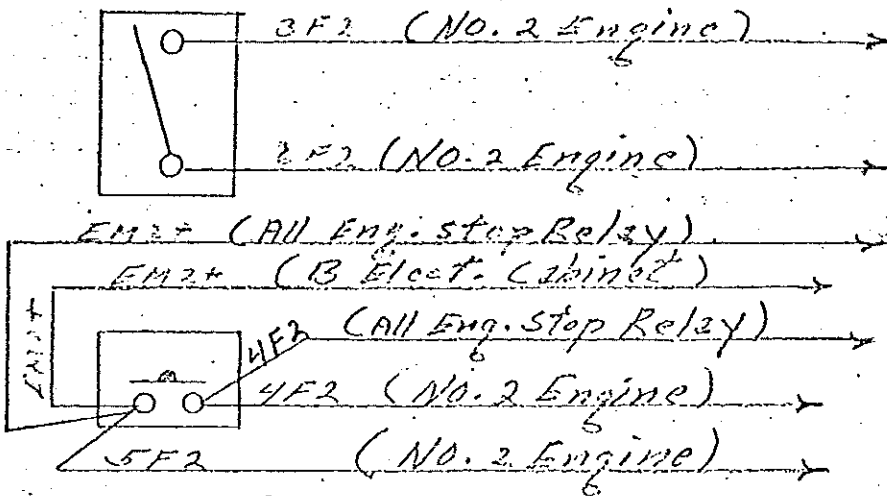




Emergency Cab Heater Fuse

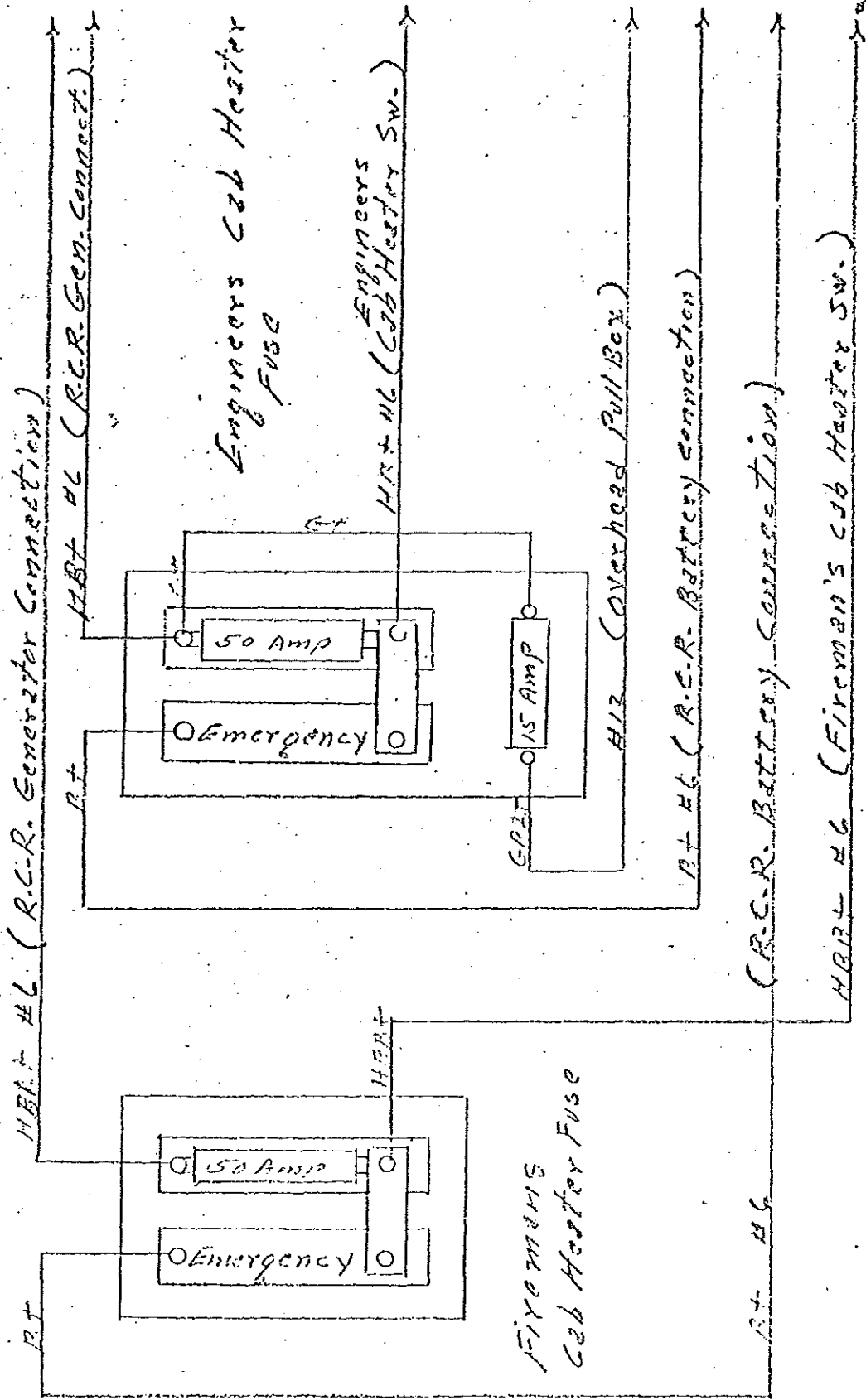


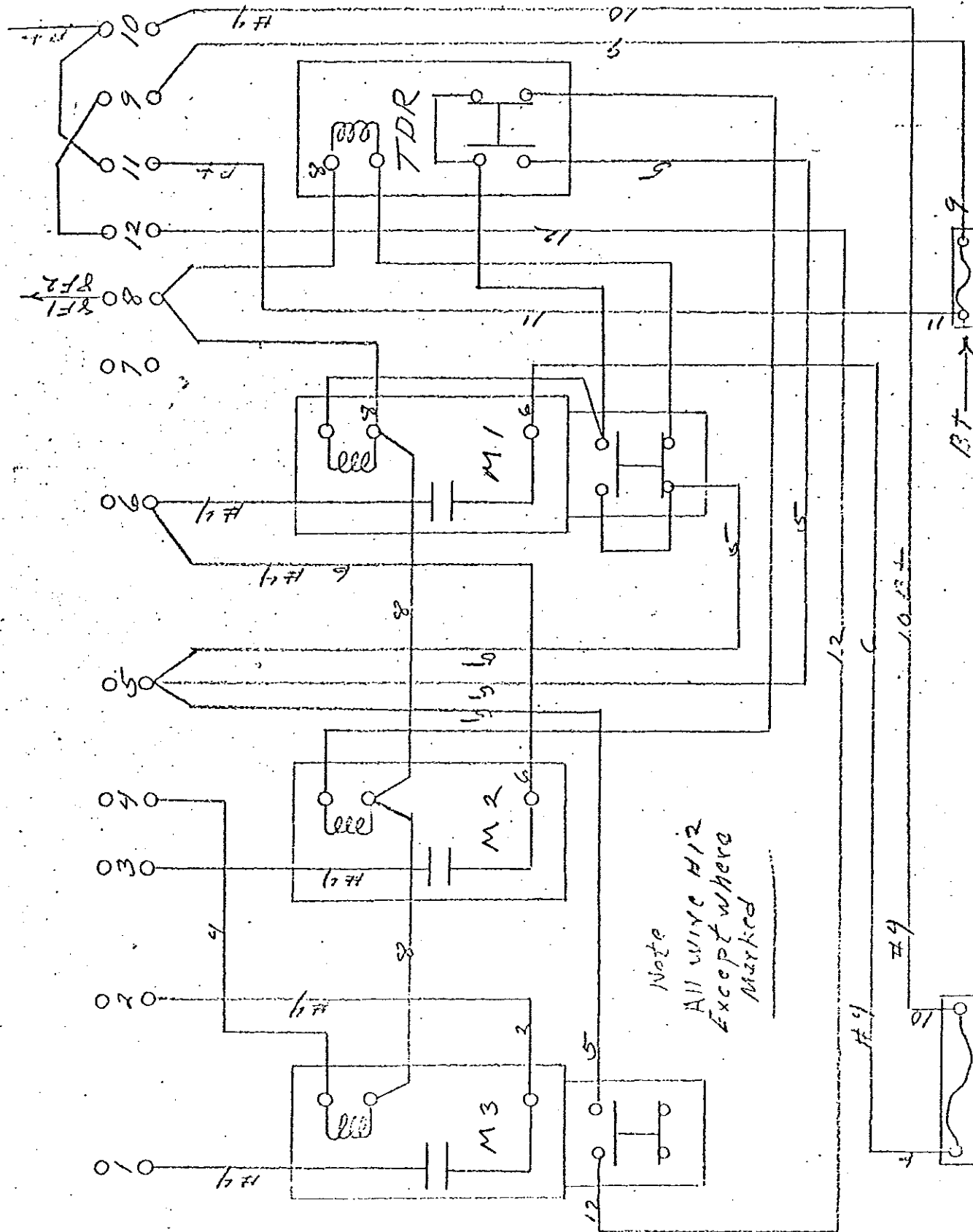
No. 2 Drive Lockout switch



BY Rdg. Co. DATE 11/19/73 SUBJECT Fireman's + Engineer's Cab Heater Fuse Blocks A End
 CHKD. BY _____ DATE _____
Am.trak B-30 Blocks A End

SHEET NO. _____ OF _____
 JOB NO. _____
Page 64

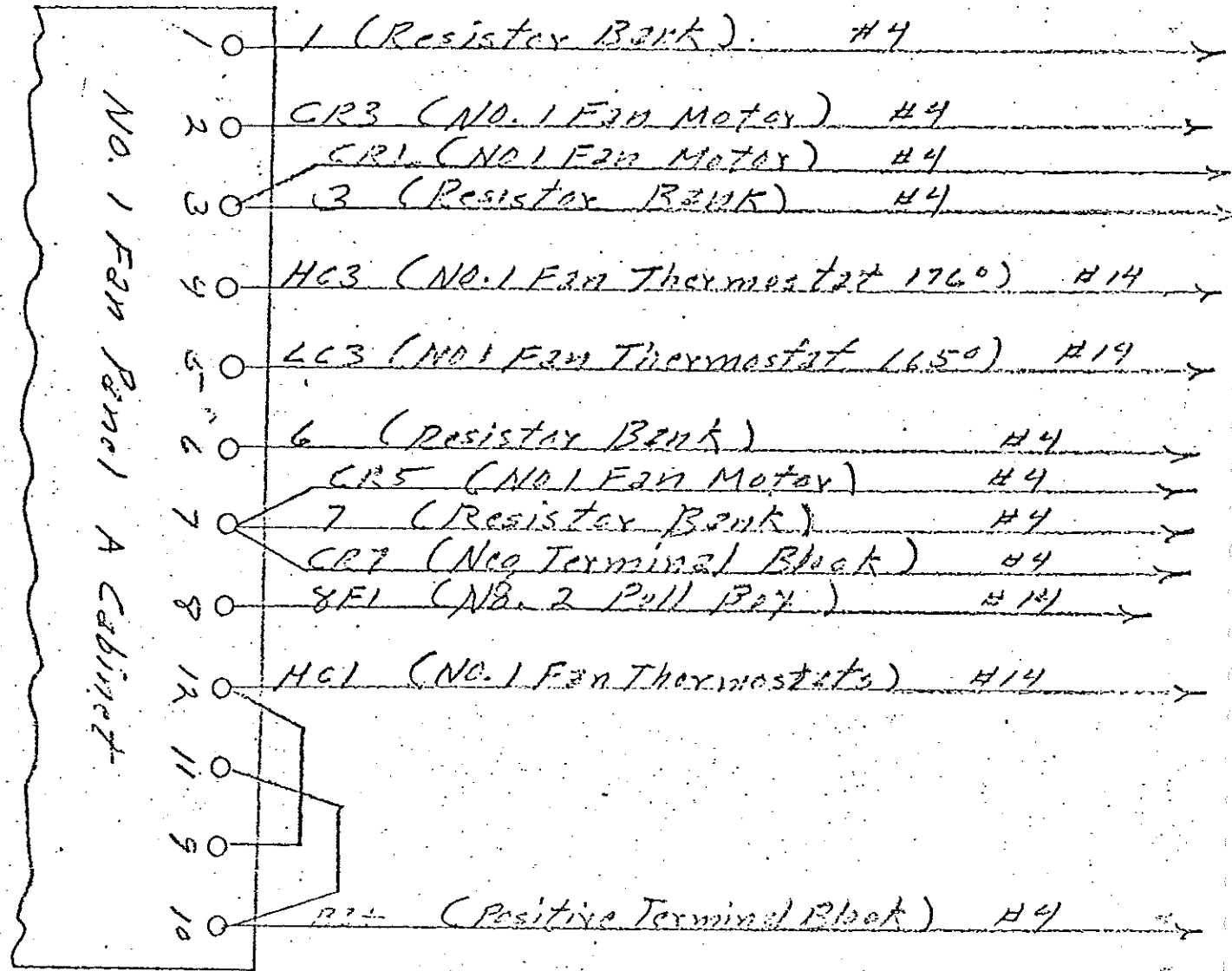




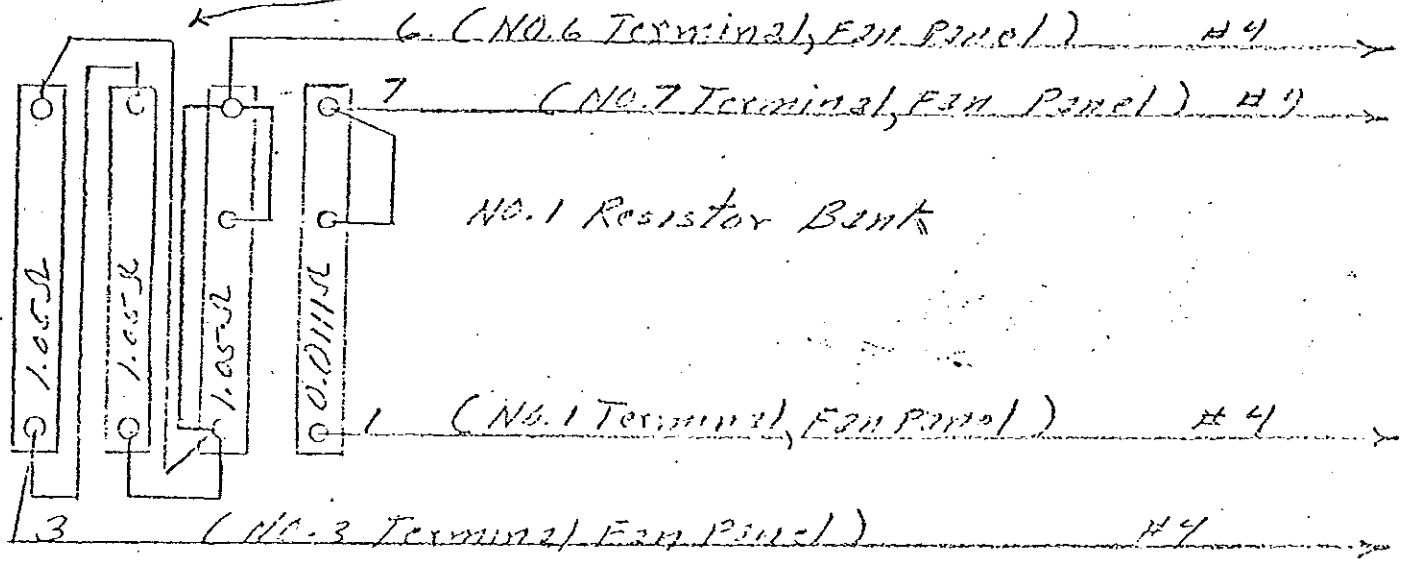
15A Fuse

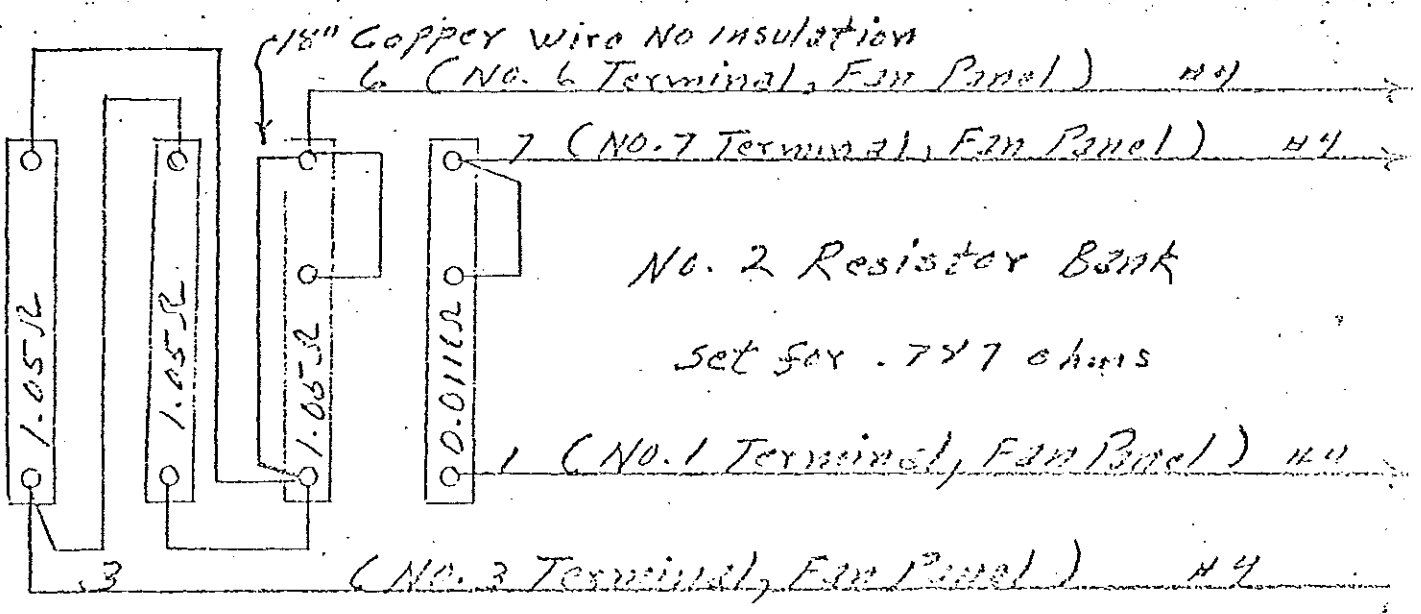
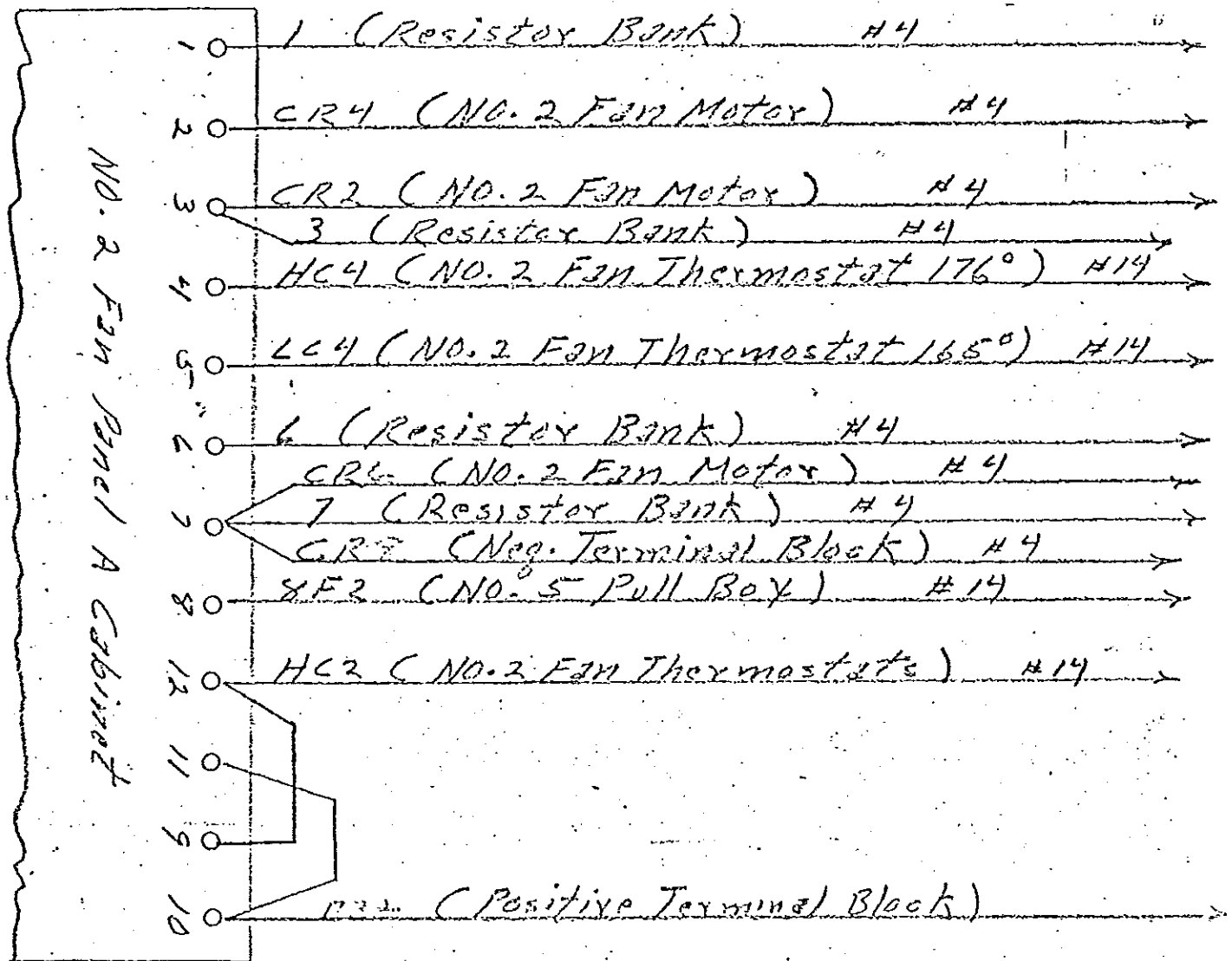
NO 1 & 2 Engines

150 A Fuse

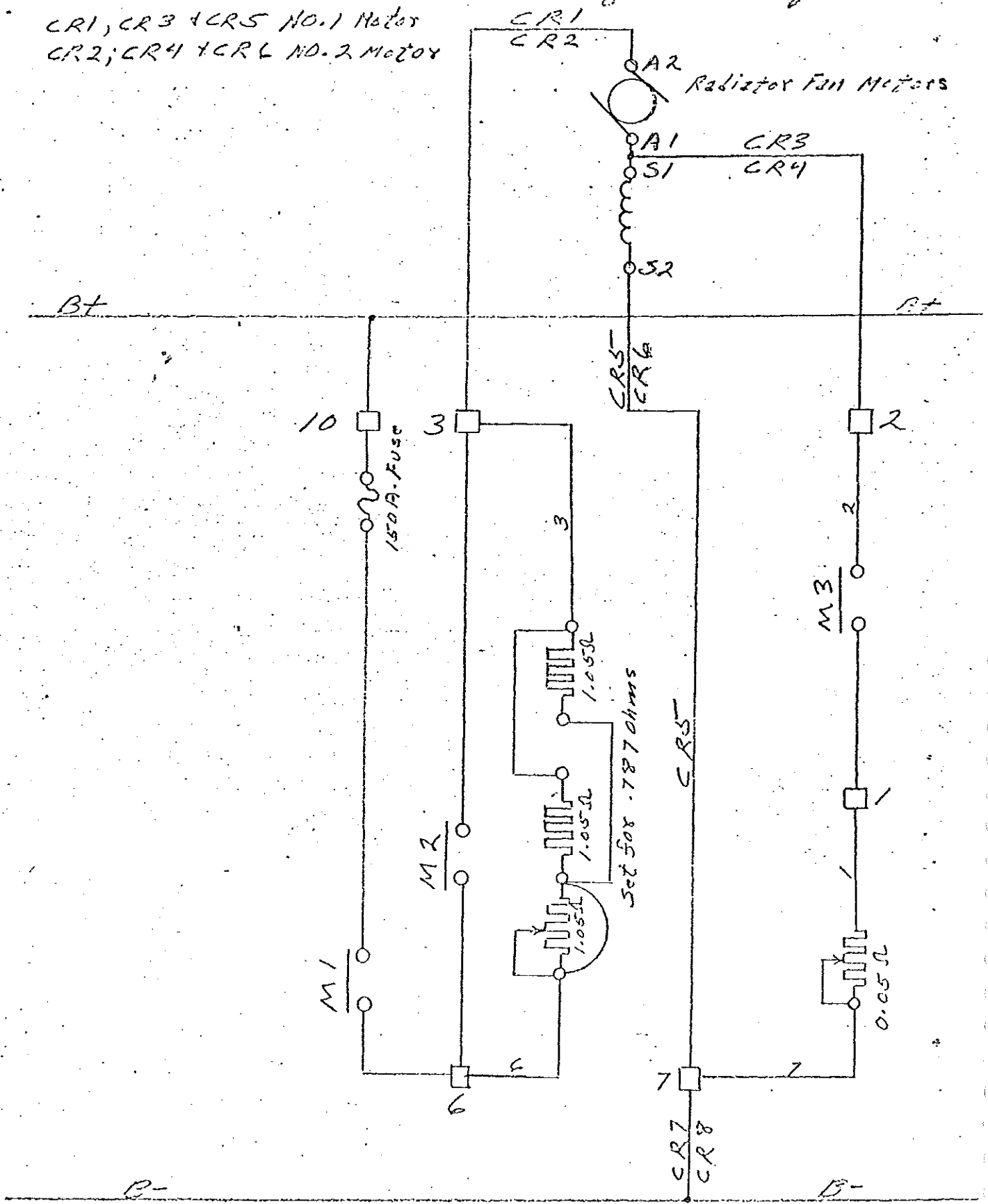


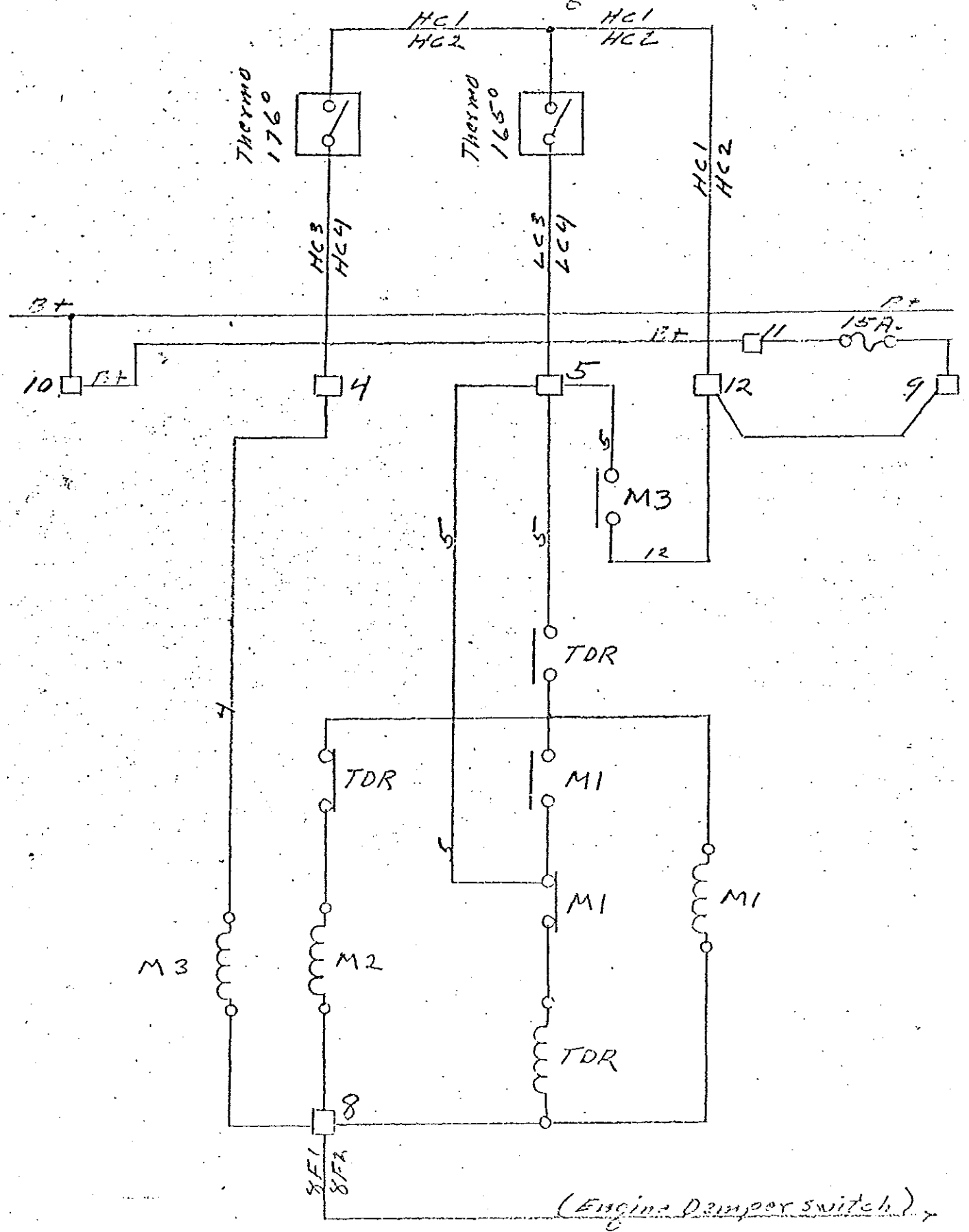
set for .787 ohms

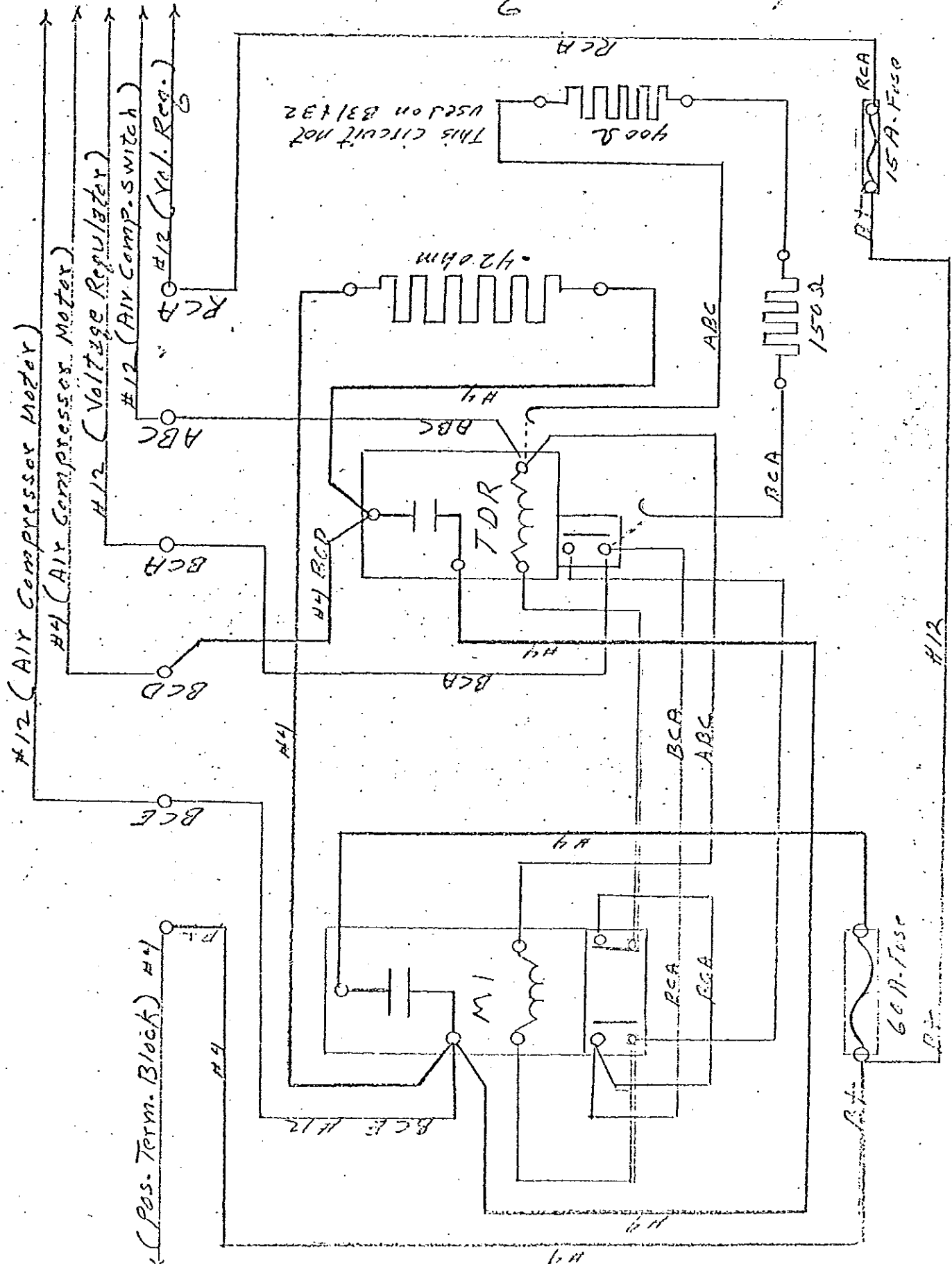


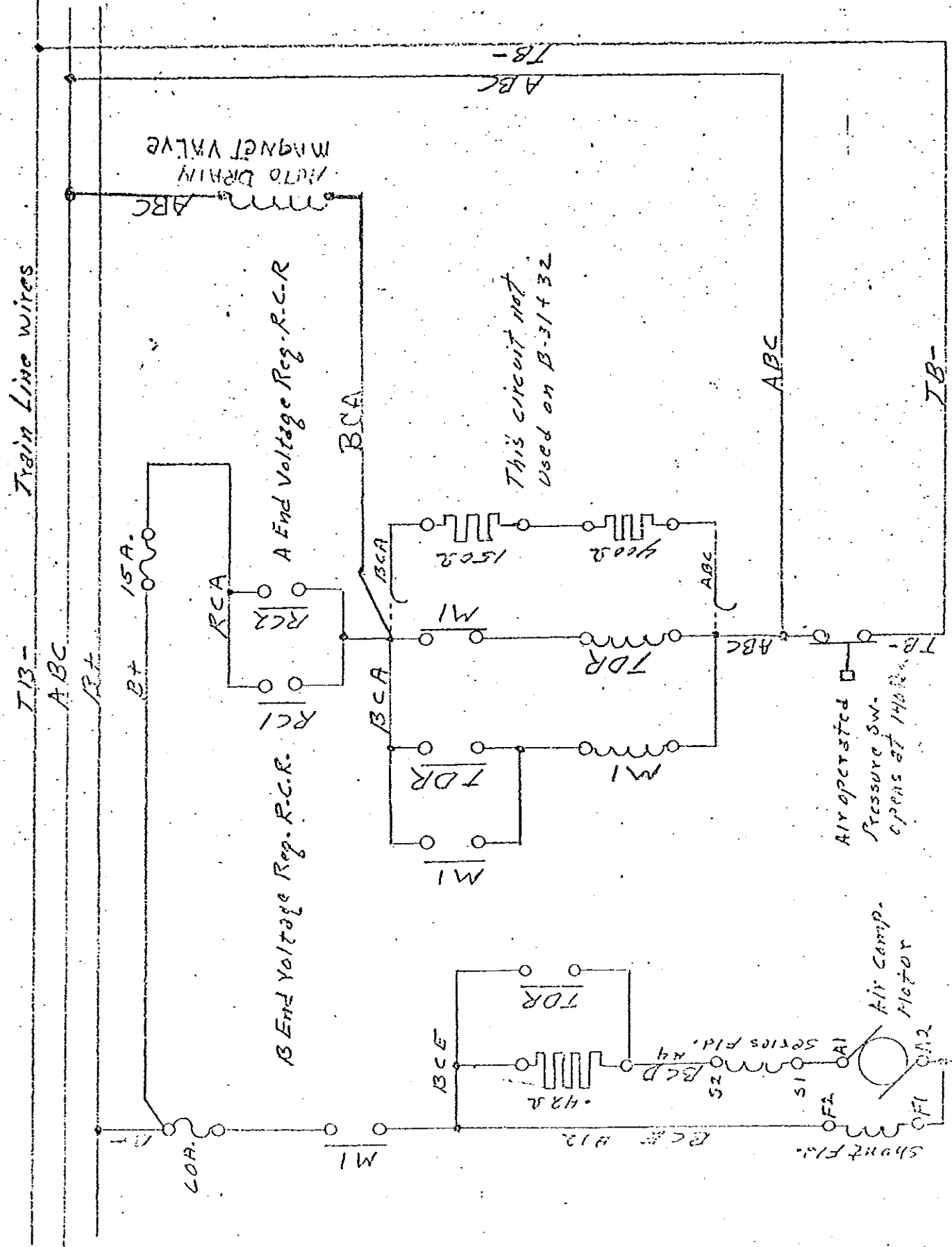


CR1, CR3 + CR5 NO. 1 Motor
 CR2, CR4 + CR6 NO. 2 Motor









Train Line wires

T1B-

ABC

R1+

B+ 15A.

MAGNET VALVE

A End Voltage Reg. R-C-R

B End Voltage Reg. R-C-R.

BCA

M1

RCA

RCA

RCA

RCA

RCA

RCA

RCA

RCA

RCA

RCA

RCA

RCA

RCA

RCA

RCA

This circuit not used on B-31+32

T1B-

ABC

150Ω

400Ω

TDR

M1

TDR

M1

42Ω

TDR

M1

42Ω

TDR

ABC

T2B-

ABC

T2A-

ABC

T2B-

ABC

T2A-

ABC

T2B-

ABC

T2A-

ABC

SHORT FUSE

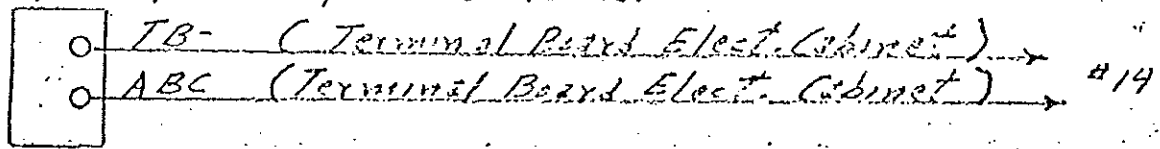
OF2

OF1

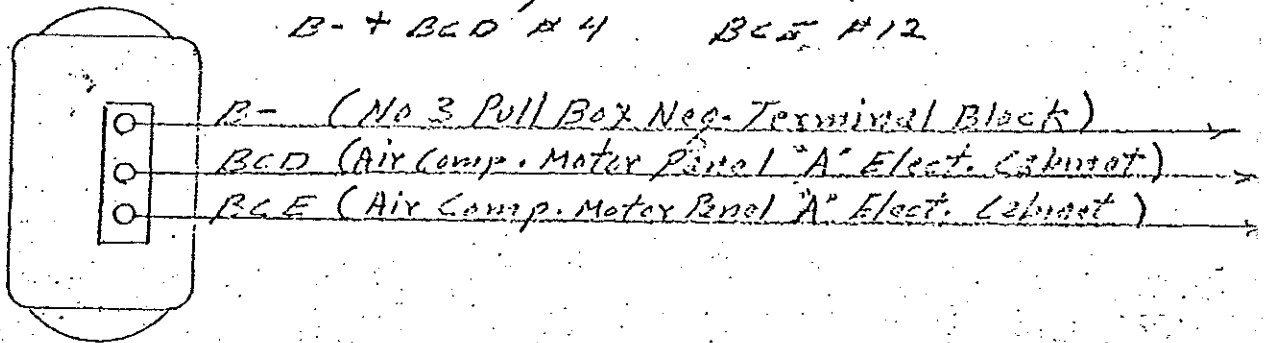
AIR COMP. MOTOR

Air operated Pressure Sw. opens at 140psi.

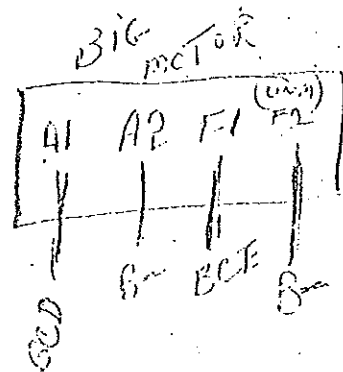
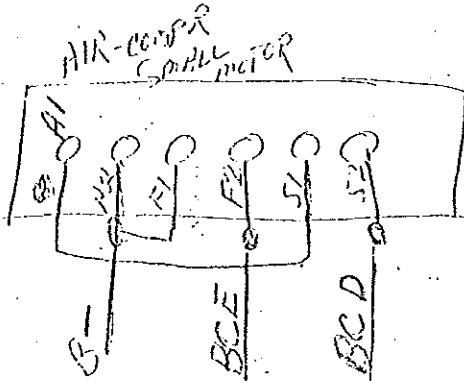
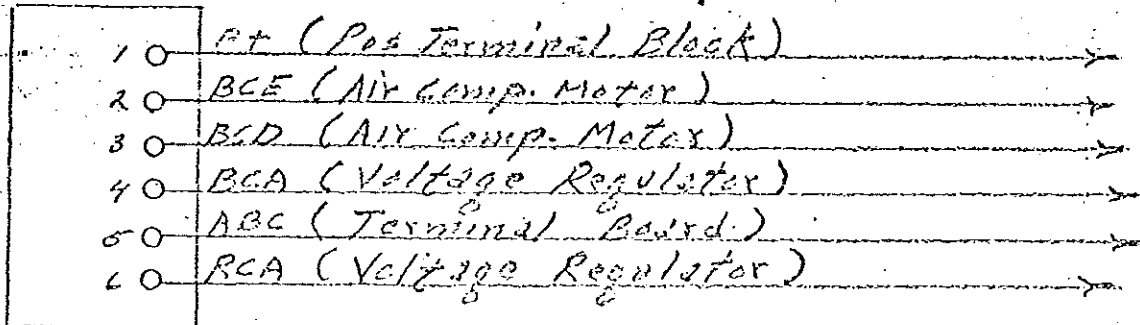
Air Pressure Sw. opens at 140 lbs.



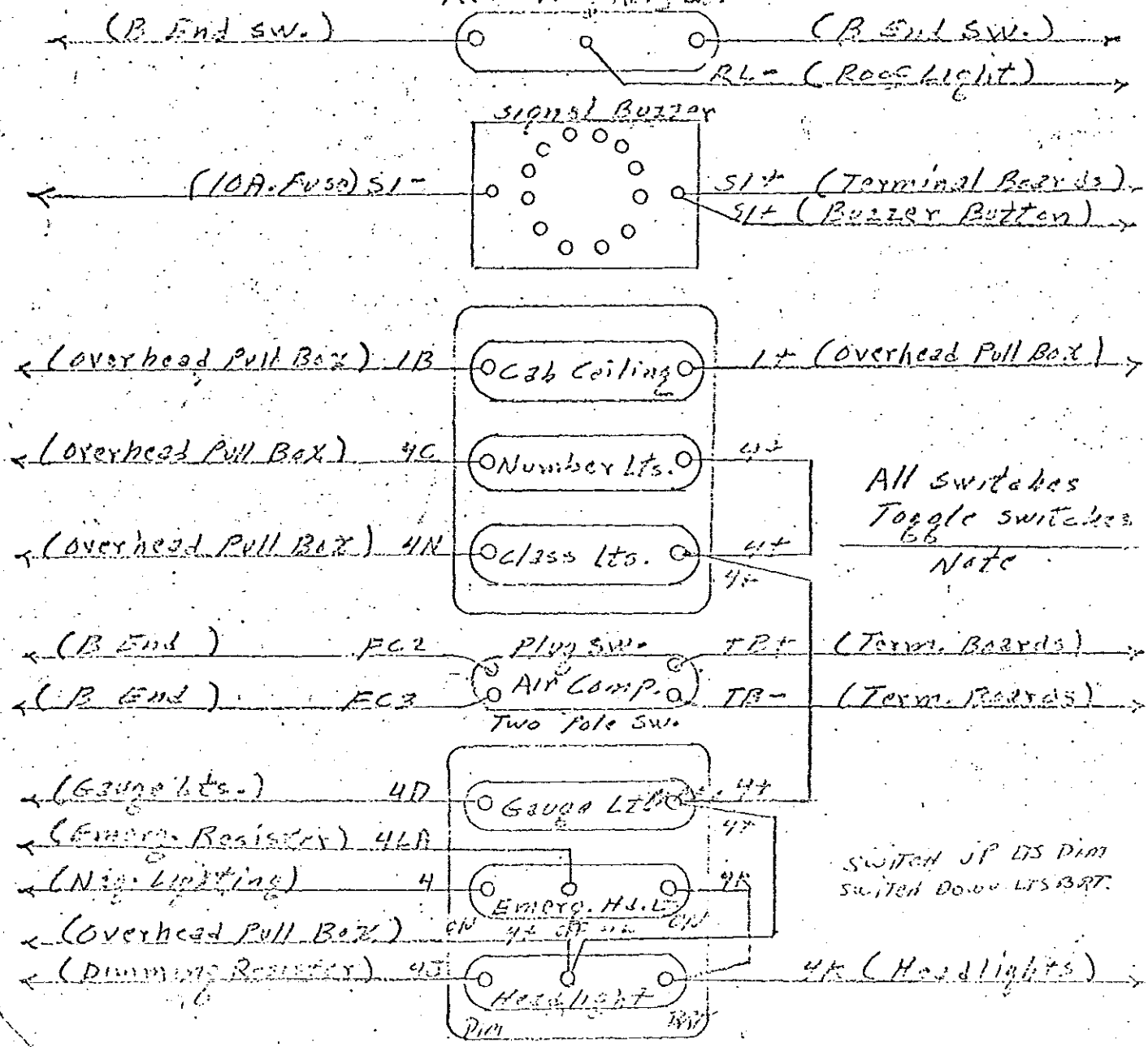
Air Brake Compressor Motor
 B- + BCD #4 BCE #12



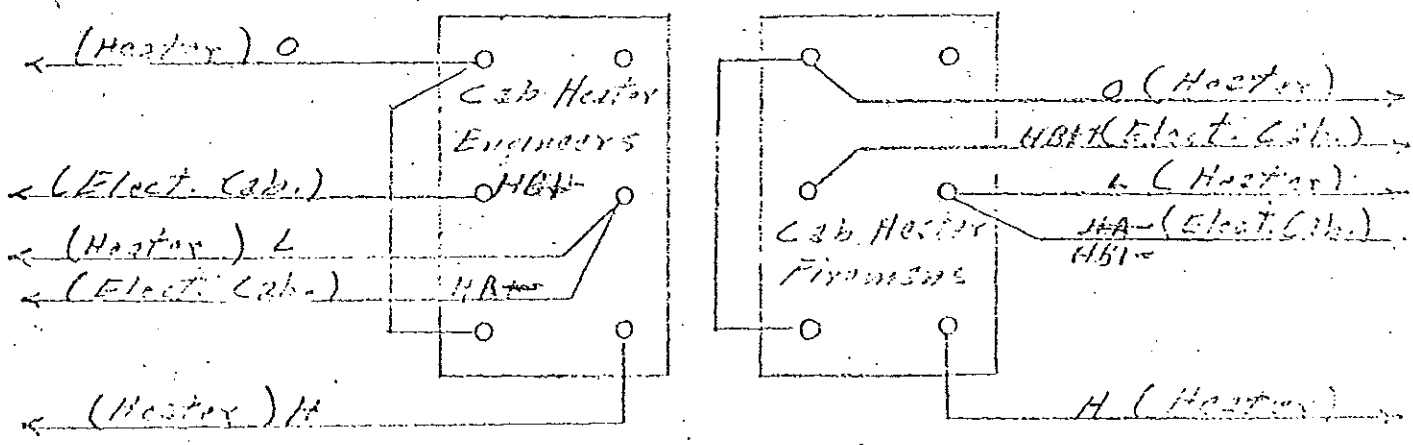
Air Compressor Control Panel



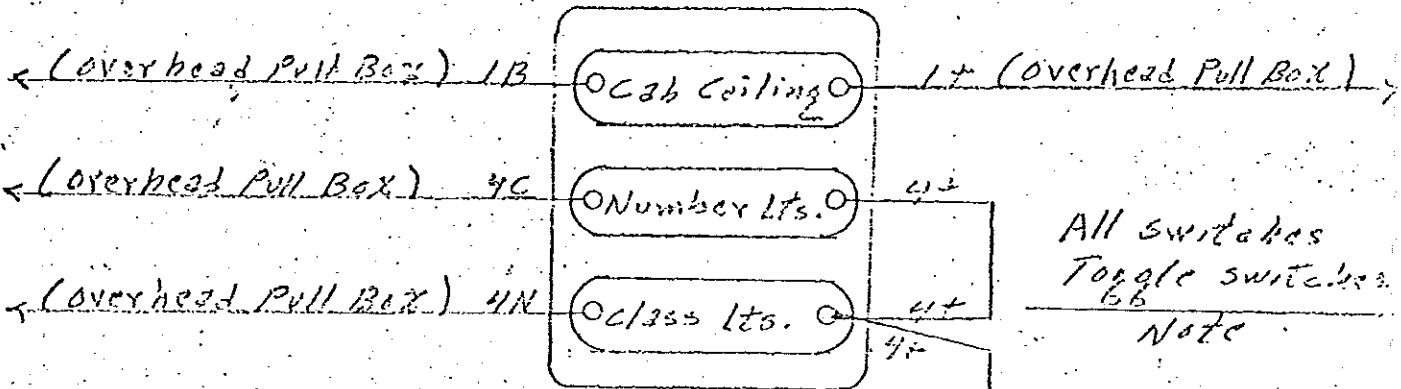
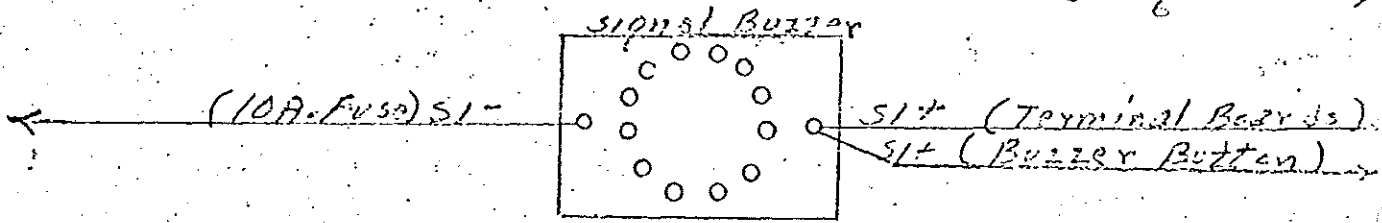
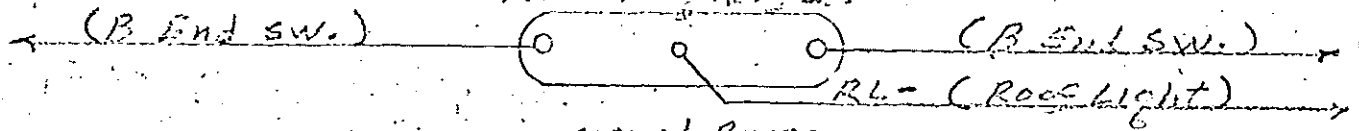
Revolving Reel Lt.



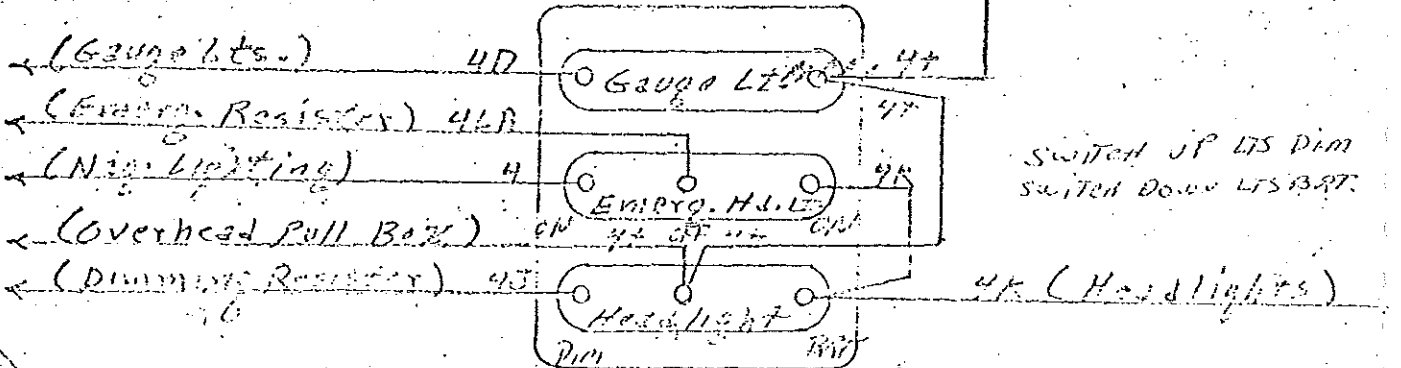
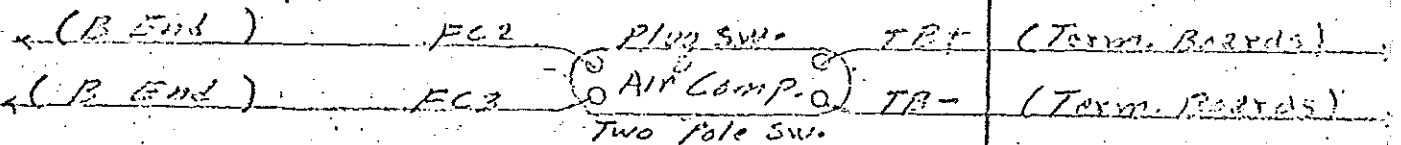
All switches
Toggle switches
66
Note



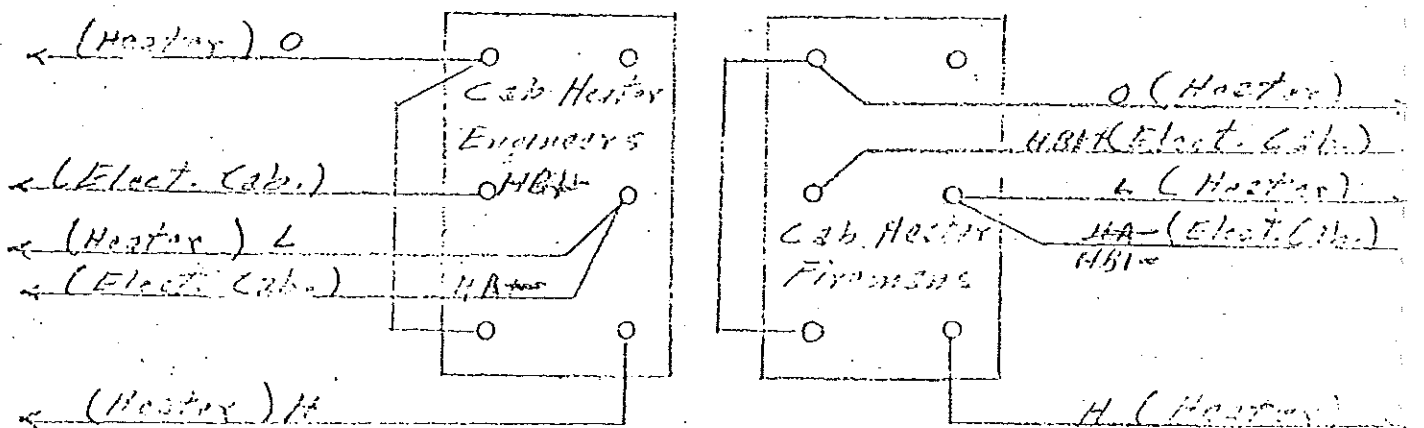
Revolving Re-lt.



All switches
Toggle switches
66
Note



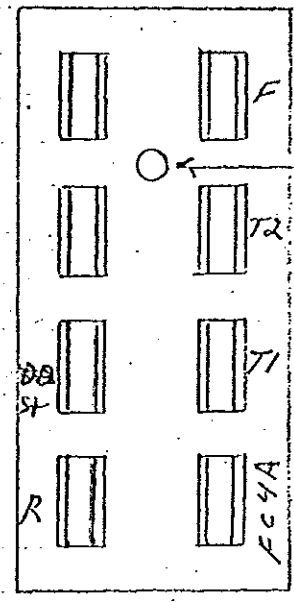
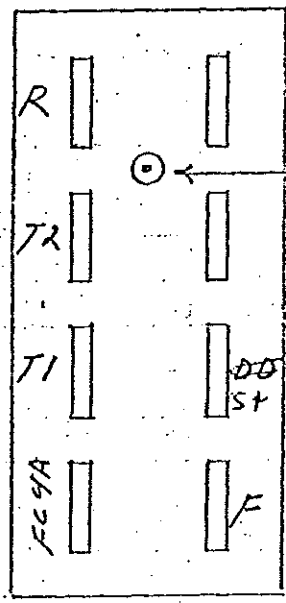
SWITCH UP LTS DIM
SWITCH DOWN LTS BATT.



Note
 FTR Must be
 Reversed as
 shown, on
 This End
only

plug wiring

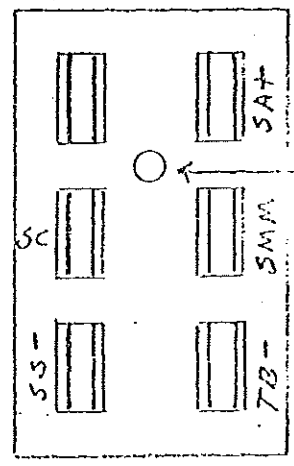
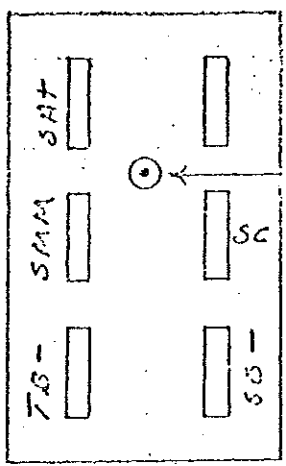
Receptacle wiring



views shown looking at
 coupling faces

plug wiring

Receptacle wiring



views shown looking at
 coupling faces

WIRES RUNNING FROM "B" END TAILLET
OVERHEAD⁶ PULL BOX, TO "A" END ELECT. CABINET

1 1/4" conduit
NO. 12 WIRE 115 FT.

TB+, TB-, T1, T2, F, R, DD, ST, SIT, SI-
F, R, ABC, 2, 2+, 3, 3+ and 2 spares

WIRES RUNNING FROM "B" END OVERHEAD ELECTRIC
CABINET TO "A" END VESTIBULE OVERHEAD PULL BOX

1 1/2" conduit
NO. 8 WIRE 95 FT. 4 + 4+

NO. 12 WIRE 95 FT. 1 + 1+

NO. 14 WIRE 95 FT. SB+, GP2+ + 2 SPARES

NO. 12 WIRE 116 FT.
FC2, FC3, FC4A, Z+ + C3

NO. 14 WIRE 116 FT.
GP1+, EM2+, S-, SAT + SR

Note

C3, SR, S-, EM2+ + Z+ GO TO ELECT. CABINET

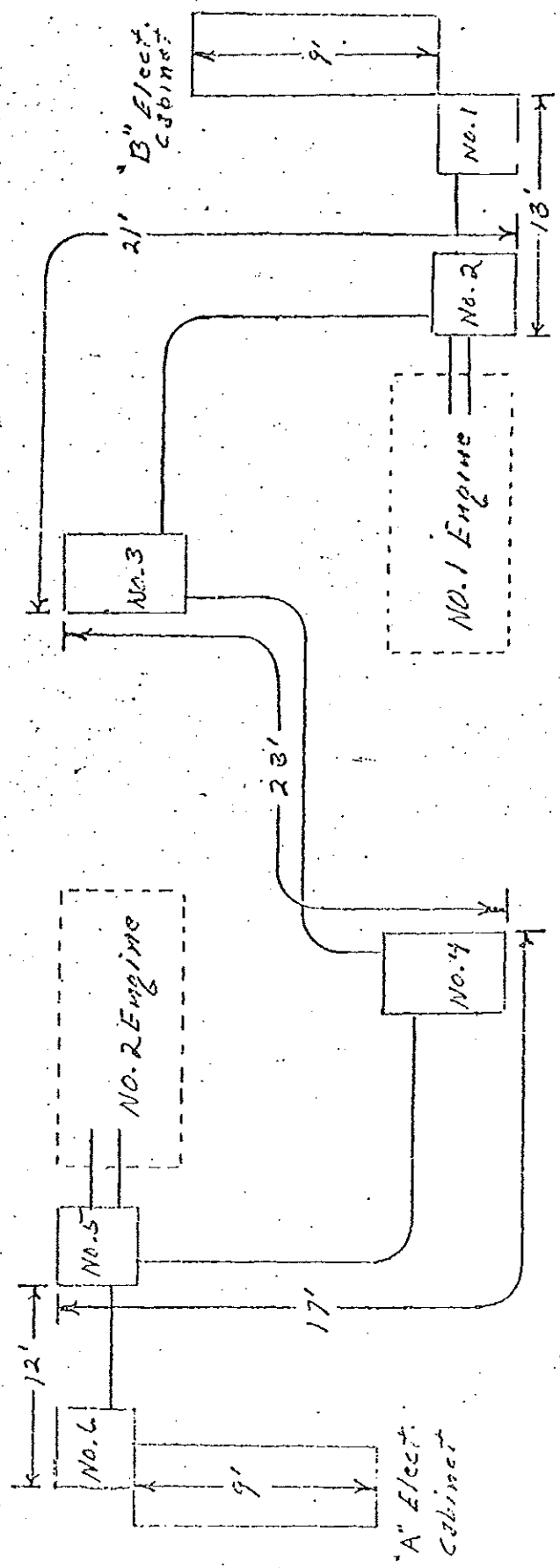
FC2, FC3, FC4A + SAT GO TO THE CONTROLLER

GP1+ GOES TO THE GEN. PILOT LIGHT

BY W. C. C. DATE 12/14/73
CHKD. BY _____ DATE _____
Aircraft B-31+32

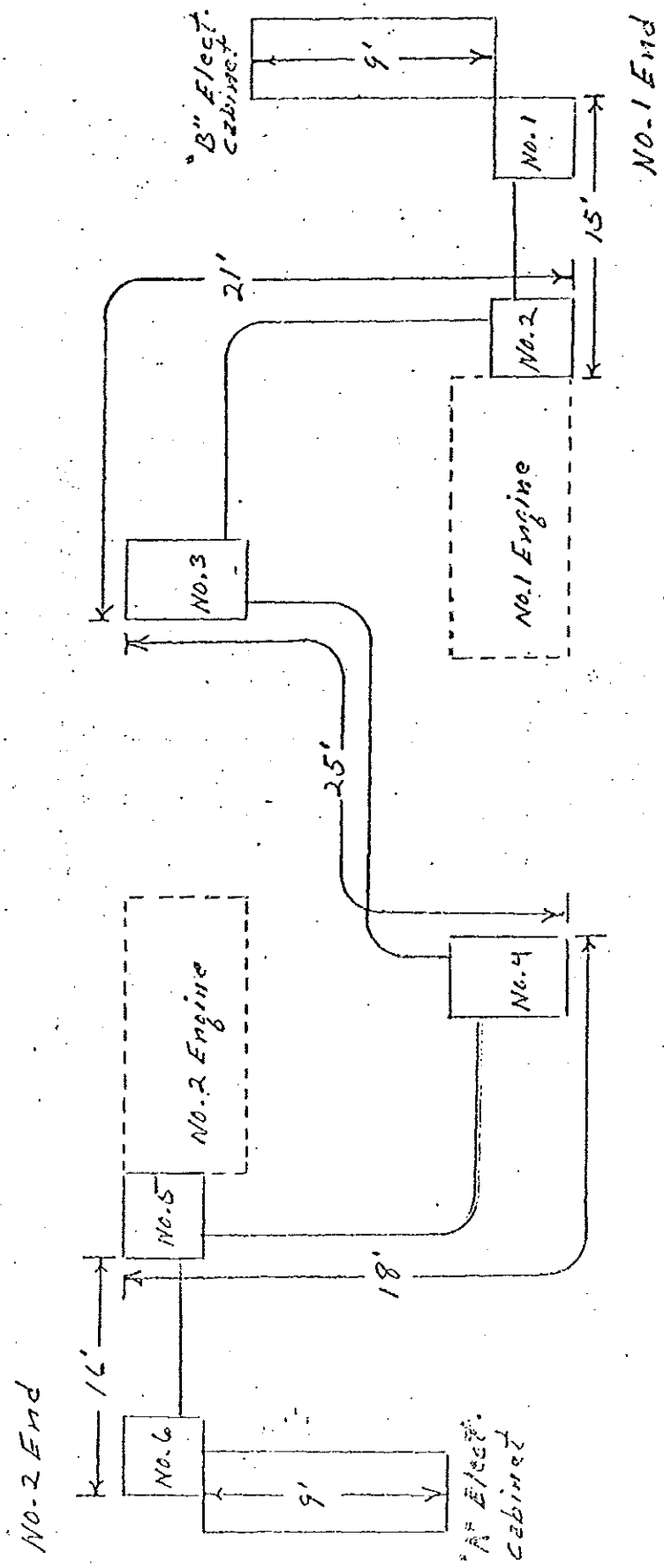
SUBJECT Long Range Patrol
Pull Boxes

SHEET NO. 1 OF 5
JOB NO. PL 83
6

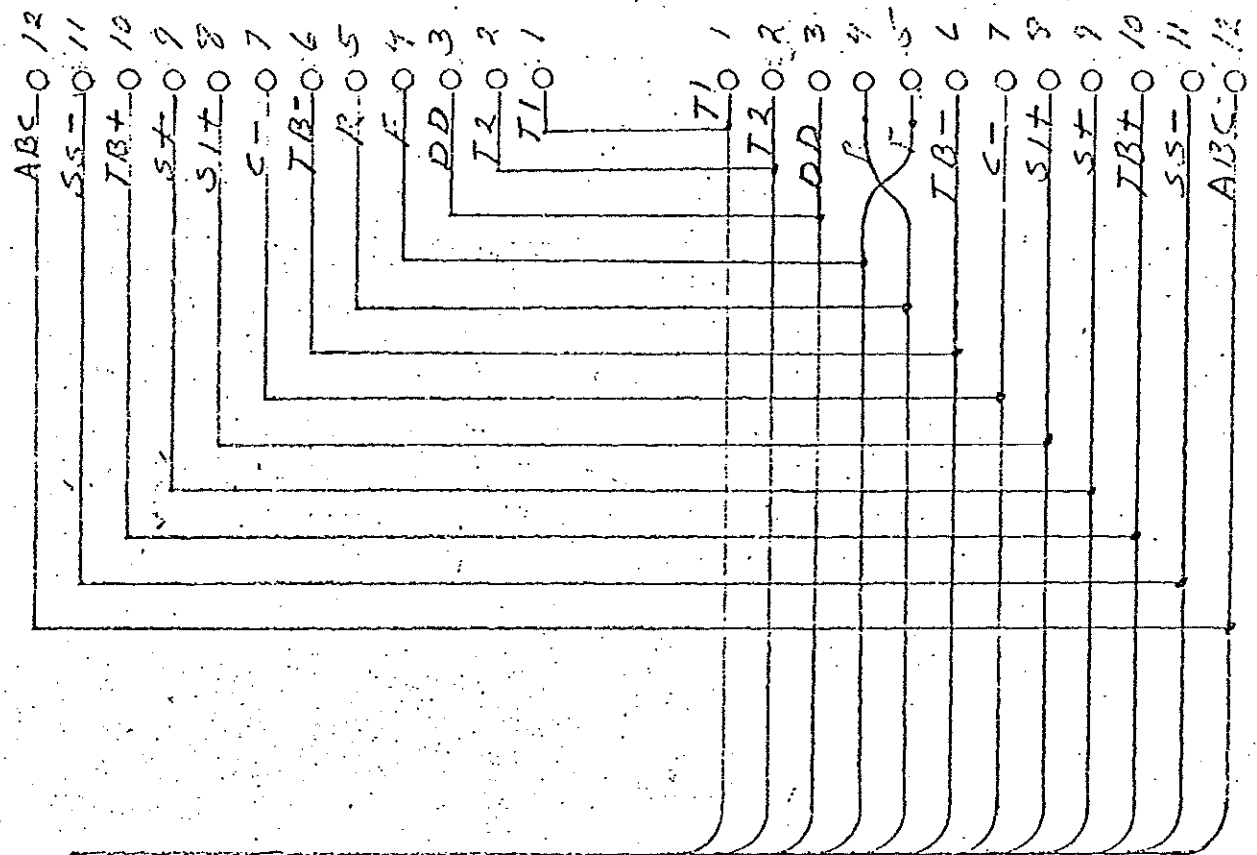


BY Rdg. Co. DATE 10/11/73 SUBJECT CONDUIT LAYOUT & Lengths
CHKD. BY _____ DATE _____ Retention
Amtrak B-206/355 6 Pull Boxes

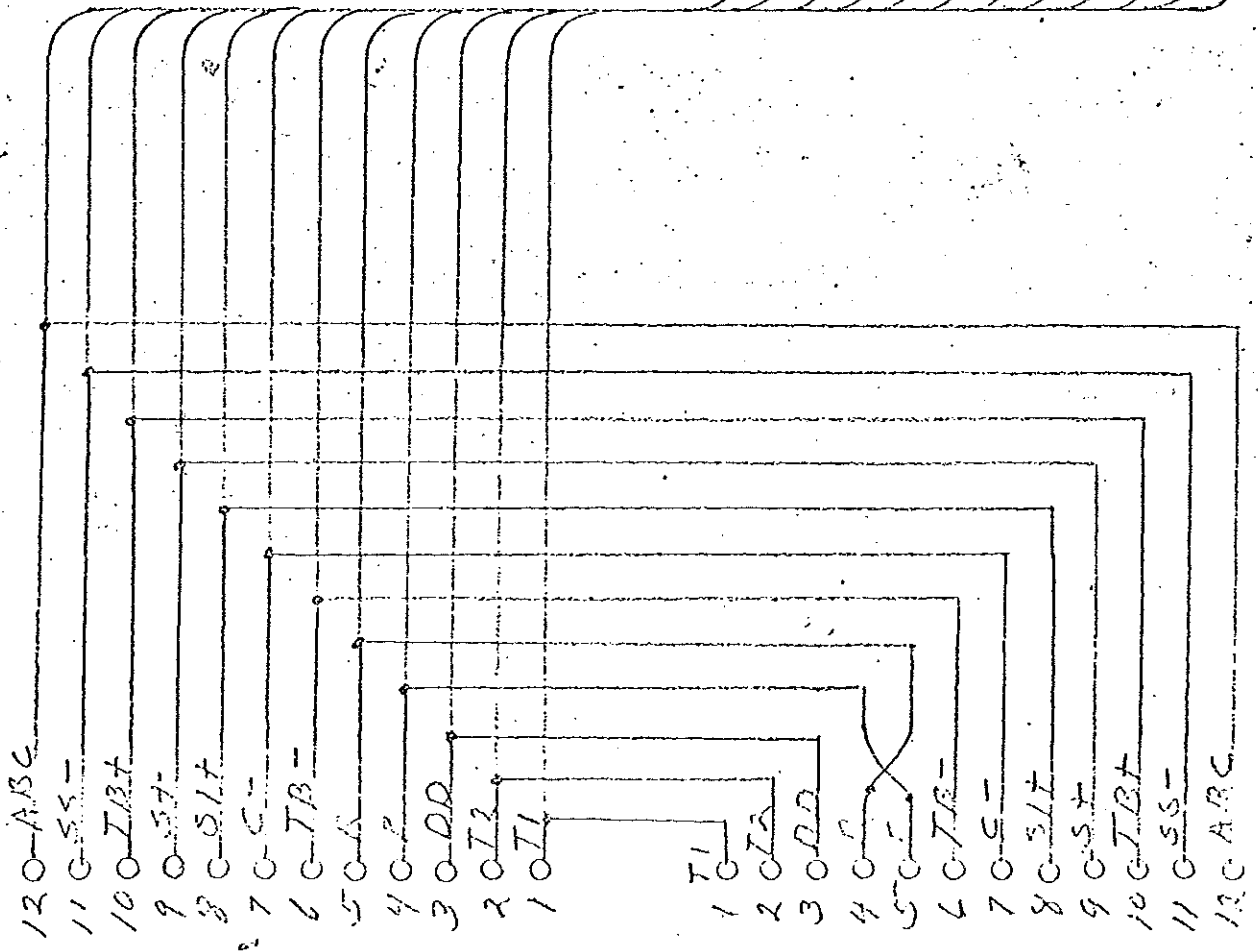
SHEET NO. 2 OF 2
JOB NO. Page 84
6



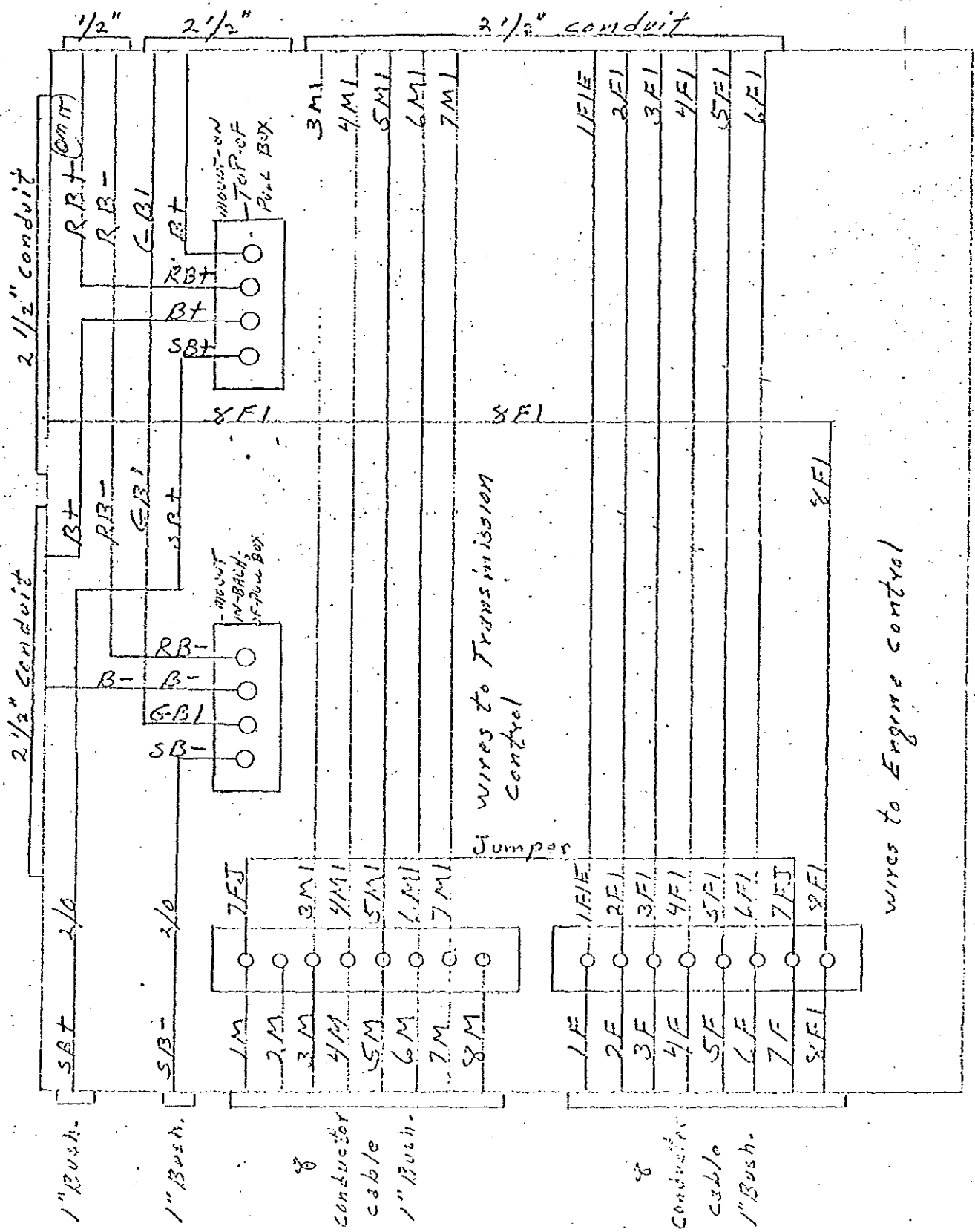
"B" End Fireman's side



"A" End Engineers side



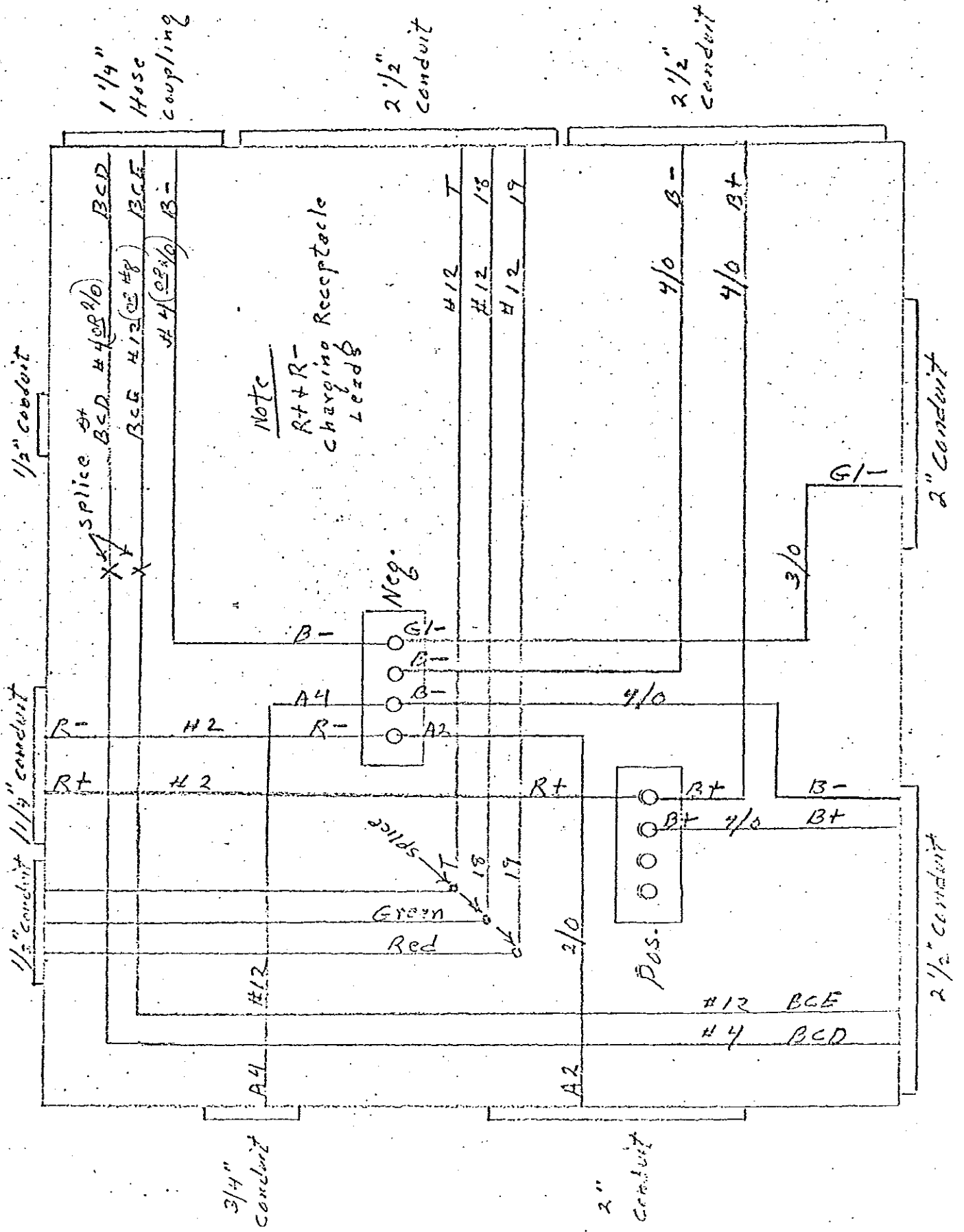
6
7



BY Rdc. Co. DATE 10/11/73
CHKD. BY: DATE:
Amizak B-31+32

SUBJECT NO. 3 Pull Box
Left side center
of L.R.

SHEET NO. 2 OF 4
JOB NO. Page 87



1 1/4" Hose coupling

2 1/2" conduit

2 1/2" conduit

1/2" conduit

1 1/2" conduit

3/4" conduit

2" conduit

2" conduit

2 1/2" conduit

Note
RT+R-
Charging Receptacle
Leads

Neg.

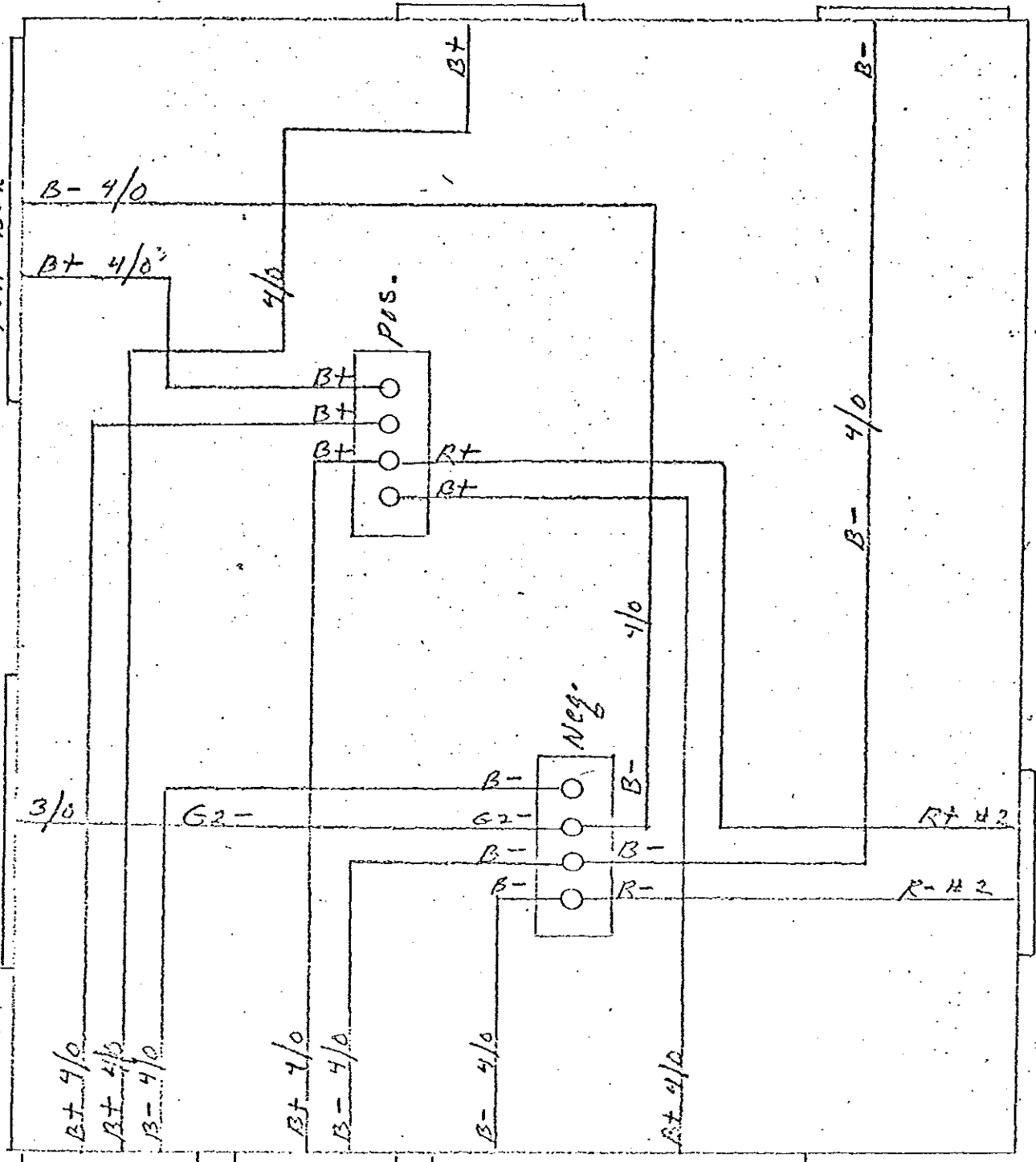
Pos.

2 1/2" Conduit to NO. 3
 Pull Box

2" Conduit to Generator

1 1/4" Conduit
 To Battery

1 1/4" strain
 Relief
 Bushing To
 Battery



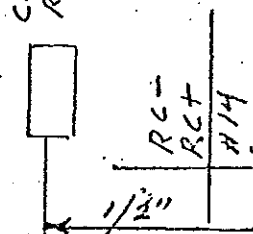
2-2" Bushings
 To Batt.
 Switch

2 1/2" Conduit
 To No. 5
 Pull
 Box

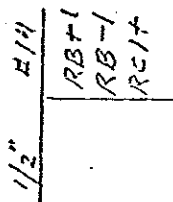
1 1/2" Conduit to No. 5 Pull Box

Relokron Control Box

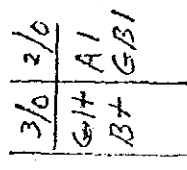
Condulet For Truck
Relokron Connections



RC-	1/2"
RC+	
#14	



#14	1/2"
RB+	
RB-	
RC+	

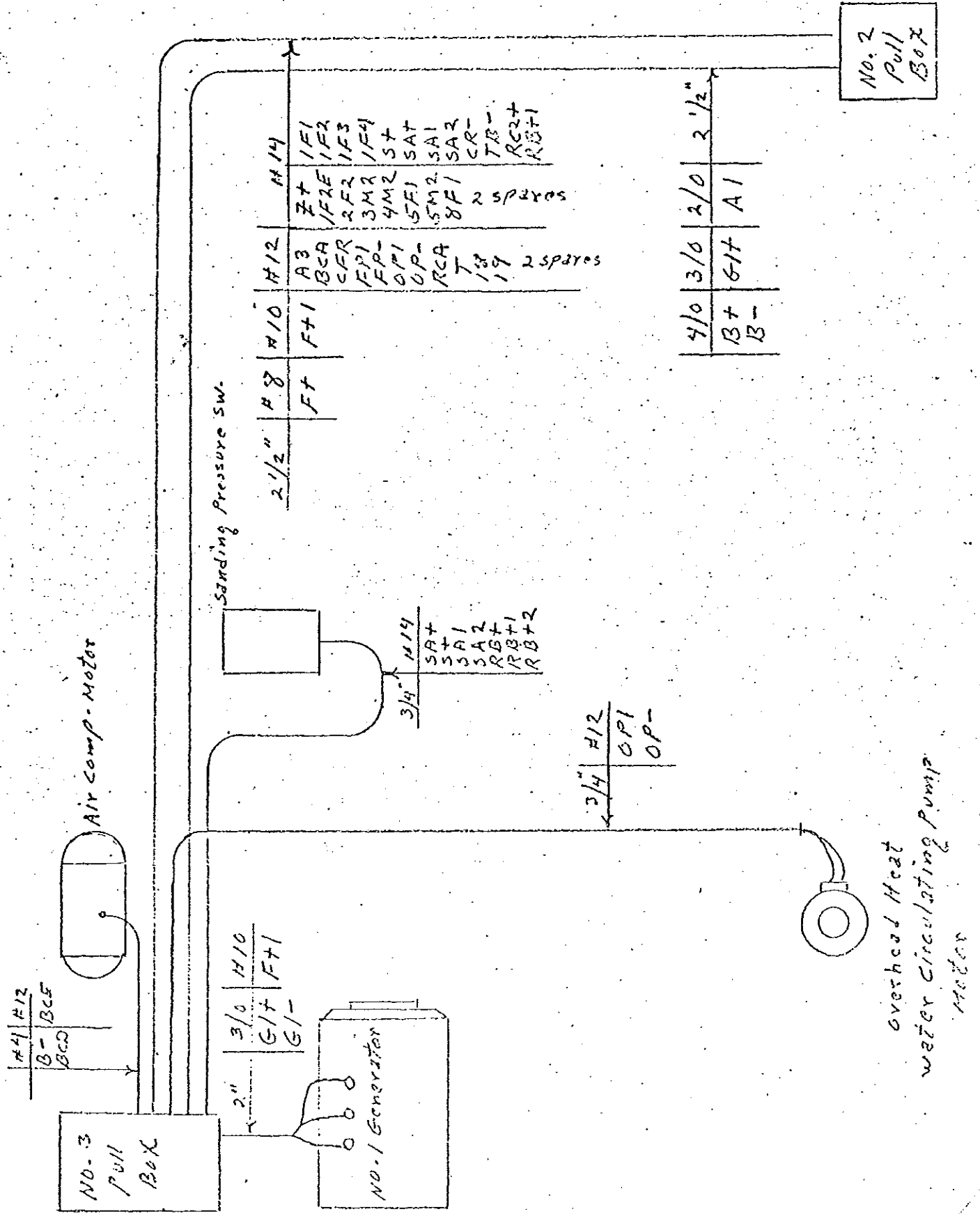


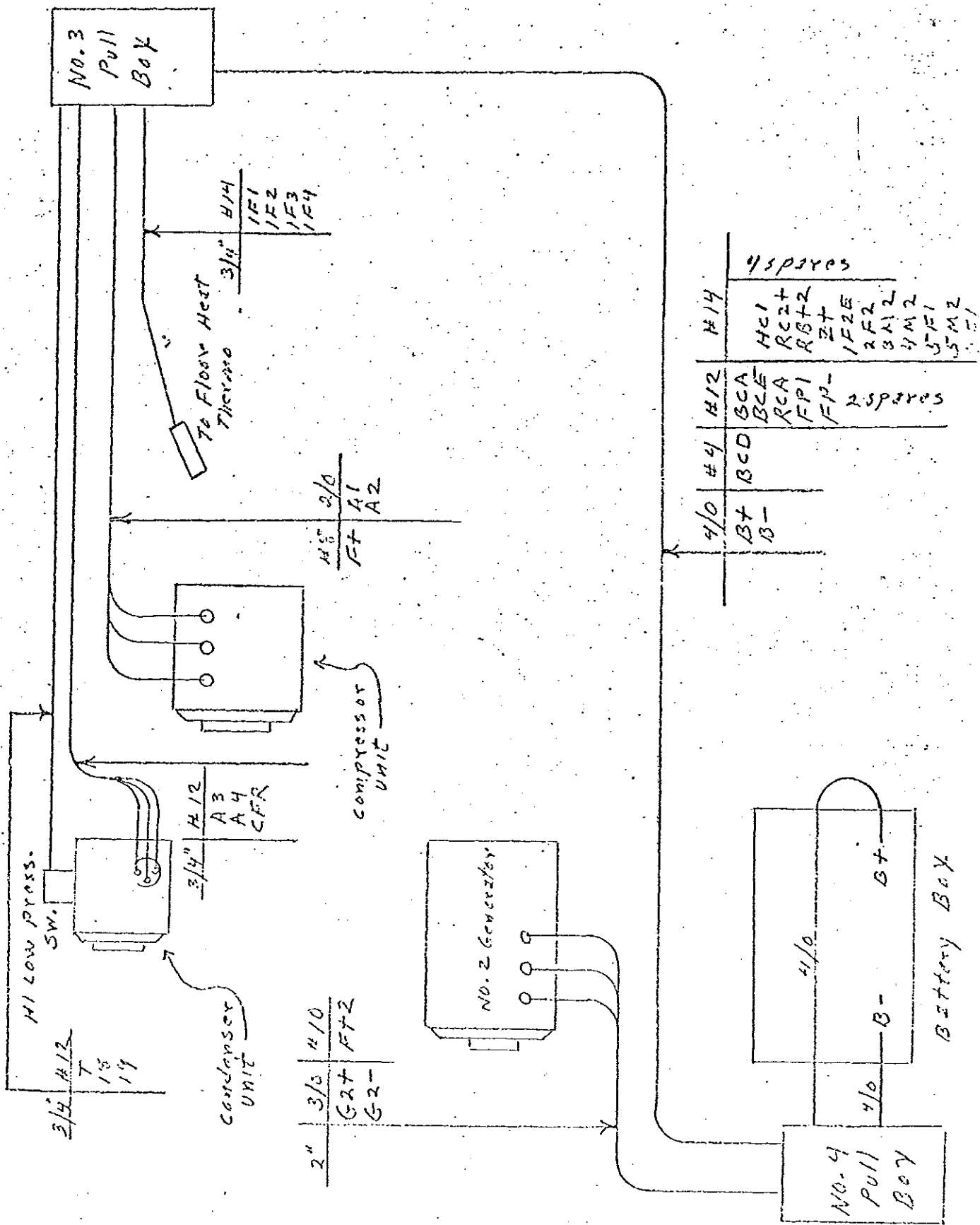
3/0	2/0	2 1/2"
GH	A1	
B+	GB1	

#8	#10	#12	#14	4 SPAYS
F+	F+1	A3	3F1	
		BCA	3M1	
		CFR	4F1	
		FPI	4M1	
		FP-	4M2	
		OPI	5F1	
		OP-	5M1	
		RCA	5M2	
		T	6F1	
		18	6M1	
		19	7M1	
		2 SPAYS	1F1	
			1F2	
			2F1	
			2F2	
			1F3	
			1F4	

No. 1
Poll
Box

No. 2
Poll
Box





BY R. Co. DATE 12/1/78

SUBJECT Wiring Running

SHEET NO. 4 OF 5

CHKD. BY _____ DATE _____

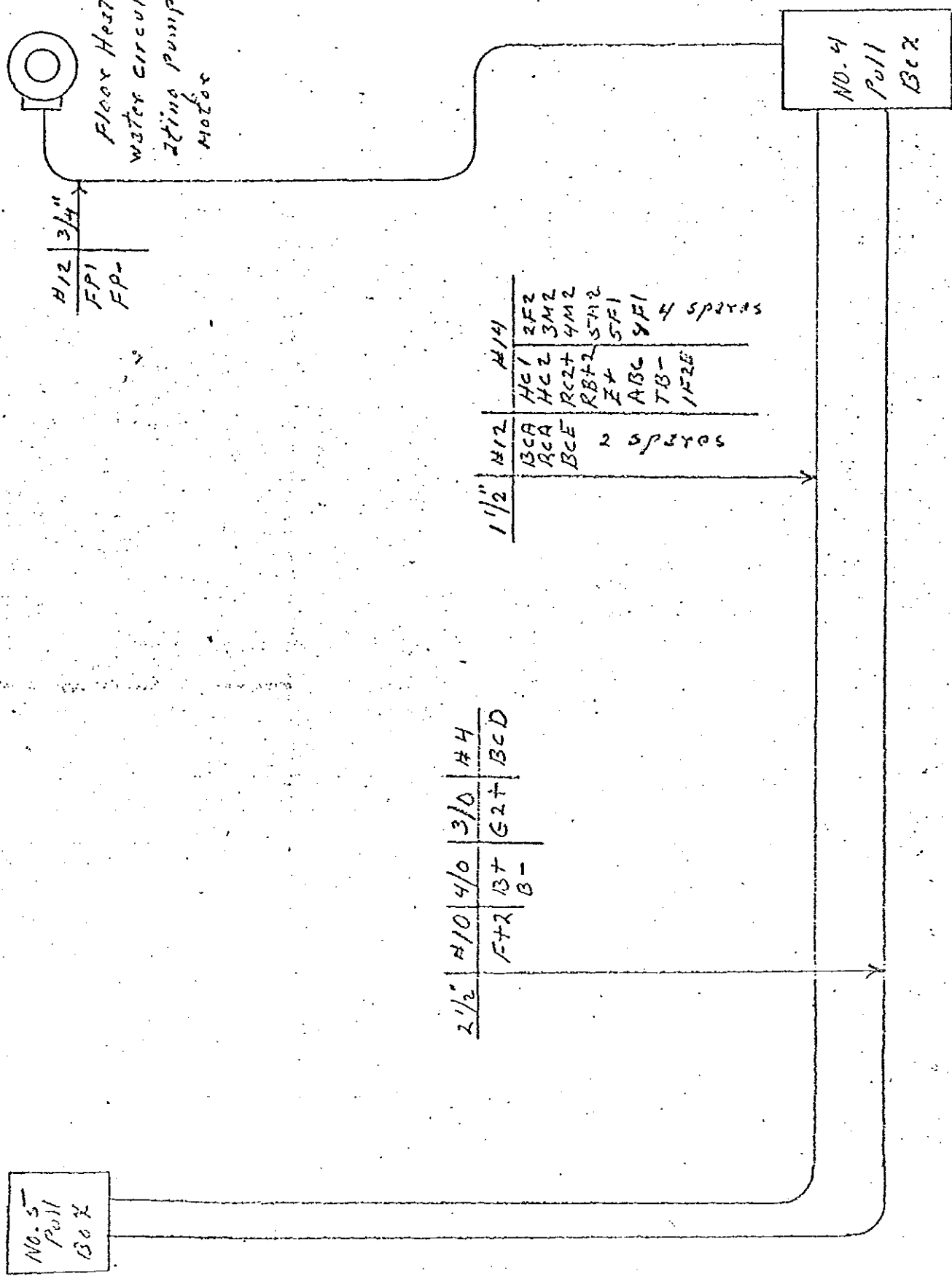
From No. 4 to Pull Box 6

JOB NO. _____

Amptrak R-31432

To No. 5 Pull Box

PROP 92



BY Rdc. Co. DATE 10/11/73

SUBJECT WIRING KUMMIG

SHEET NO. 5 OF 5

CHKD. BY DATE

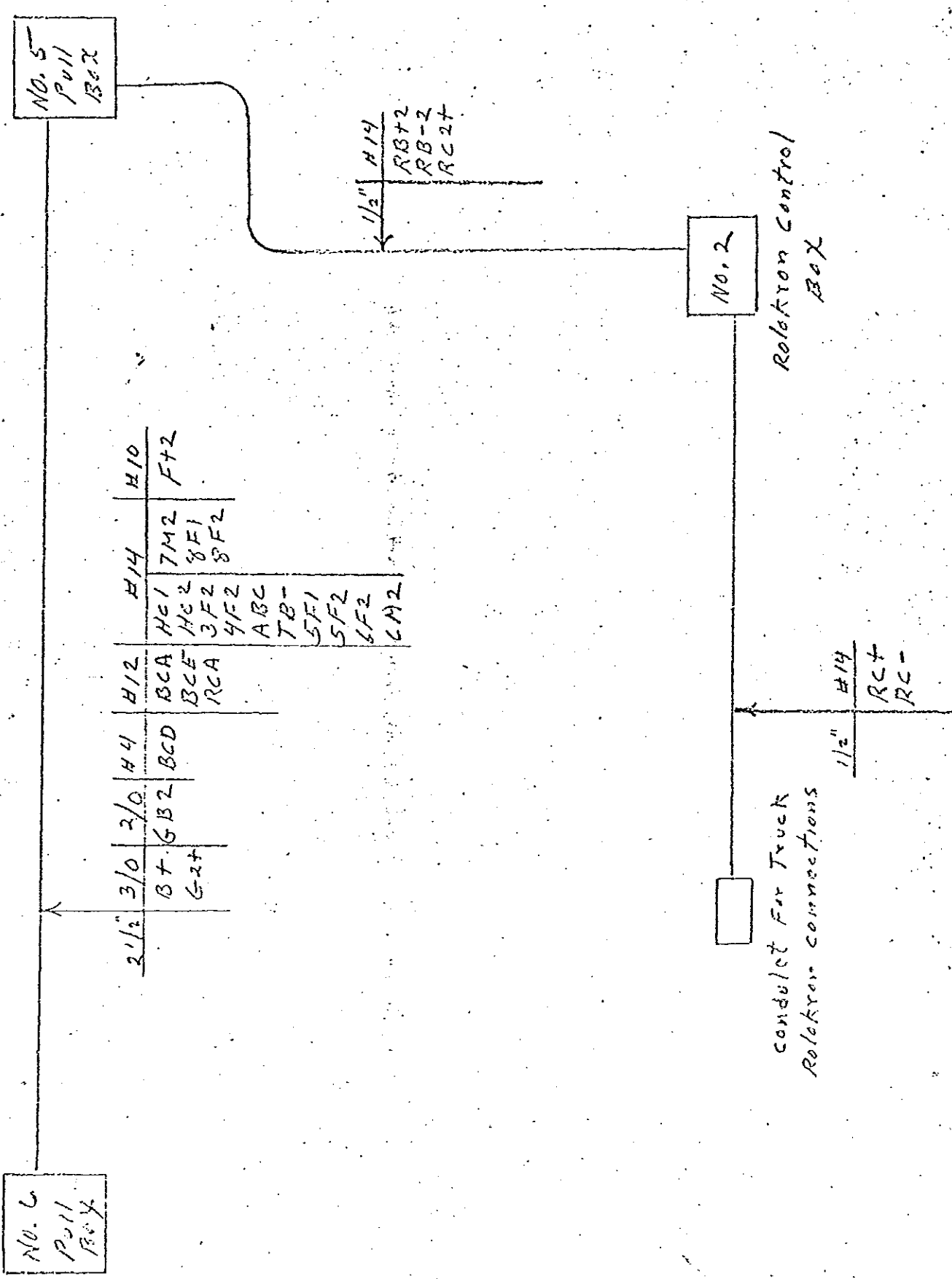
From No. 5 Pull Box 5th

JOB NO.

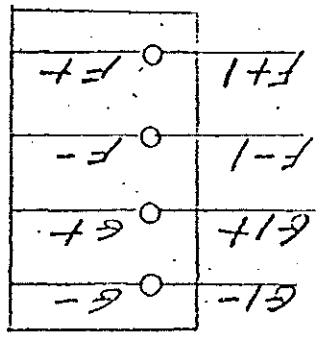
Amtrak P-21793

No. 6 Pull Box

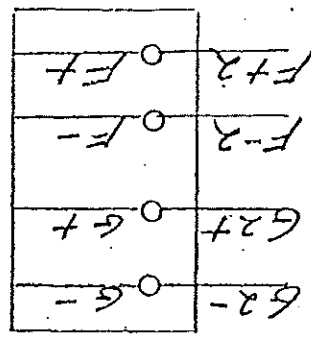
PROP 93



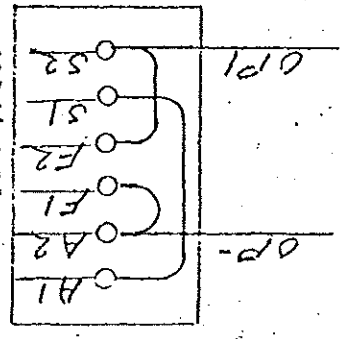
Generator No. 1



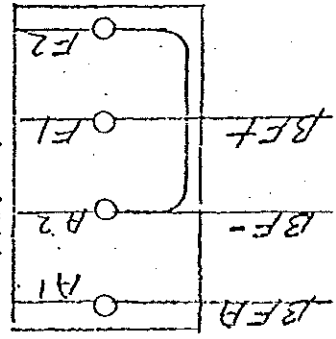
Generator No. 2



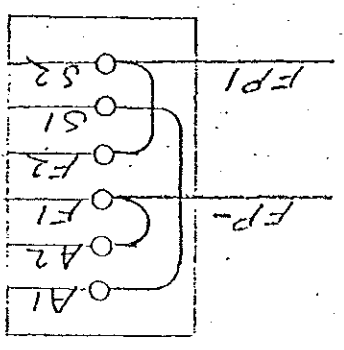
Circulating water Pump Motor Overhead Heat



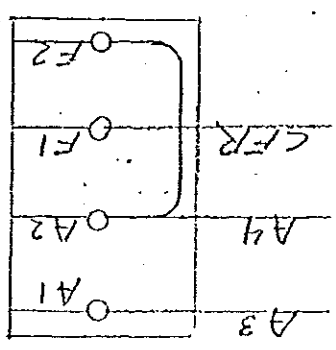
Blower Fan Motor



Circulating Water Pump Motor Floor Heat

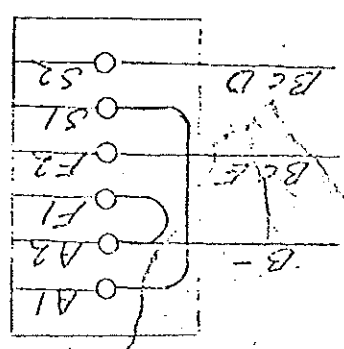


Air Cond. Condenser Motor

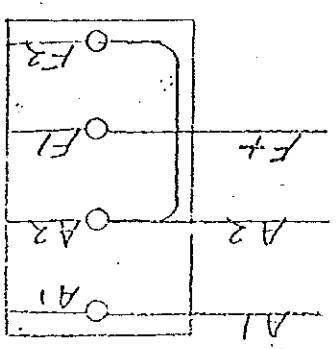


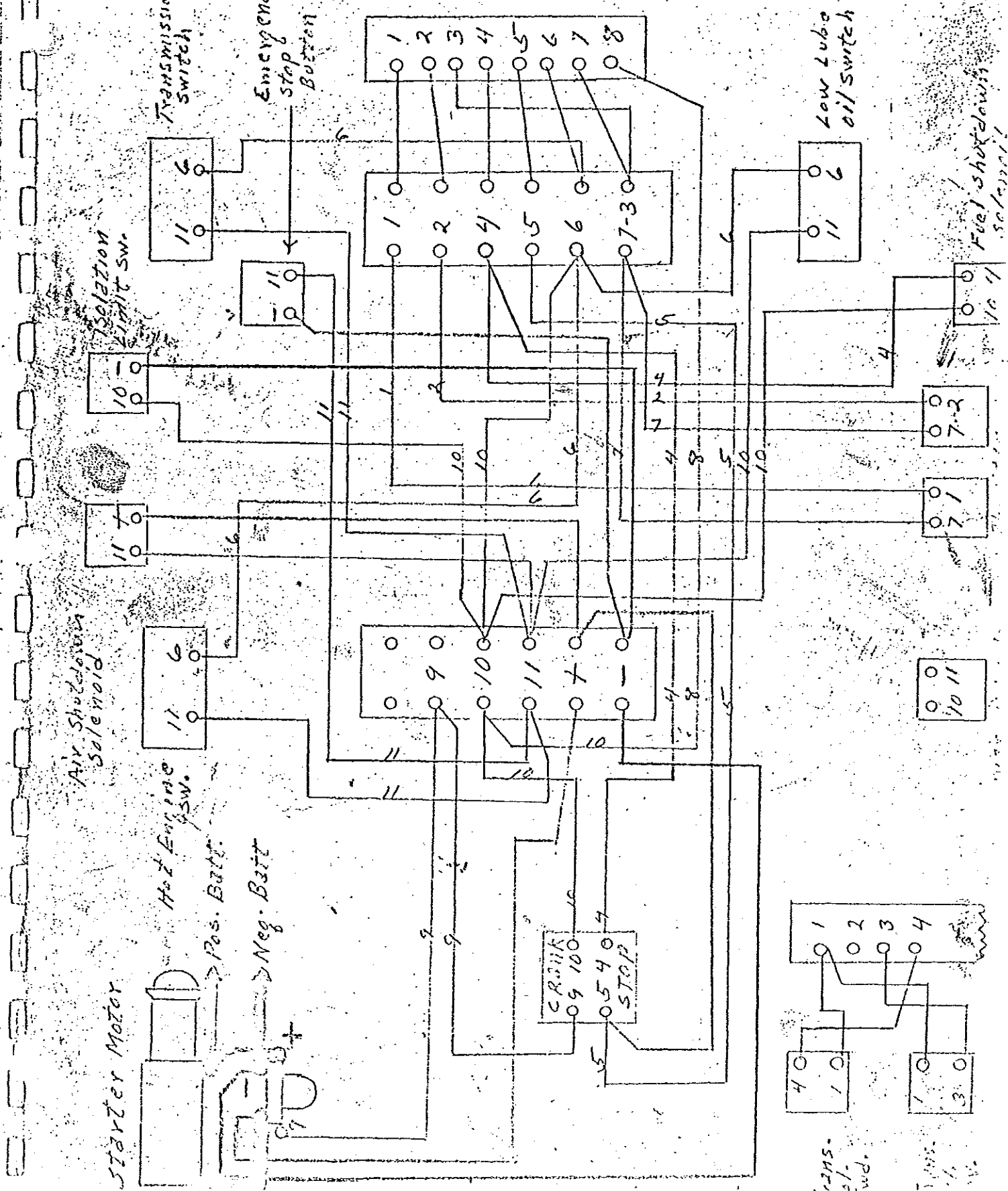
A1 A2 F1 N

Air Brake Compressor Motor



Air Cond. Compressor Motor

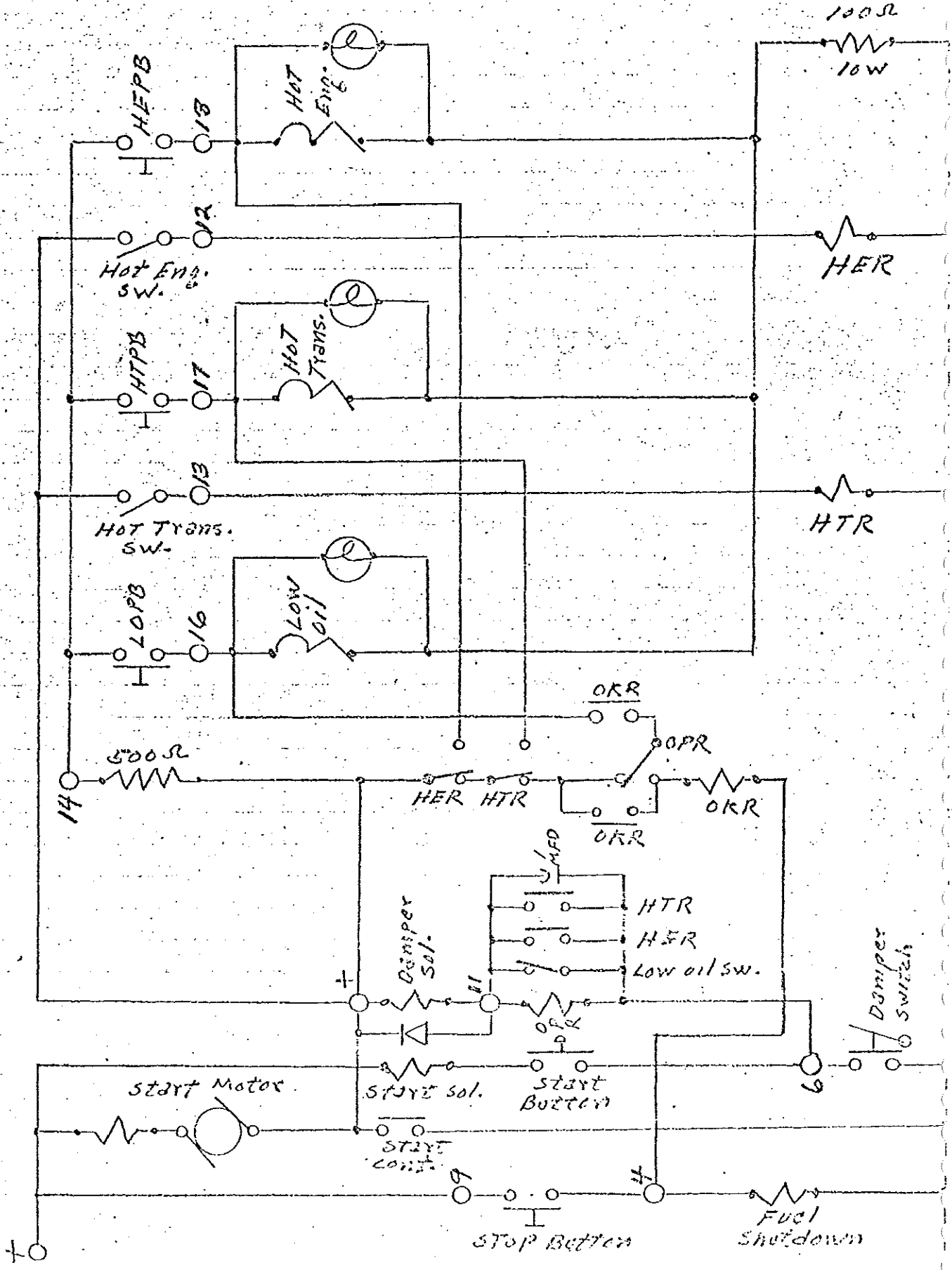


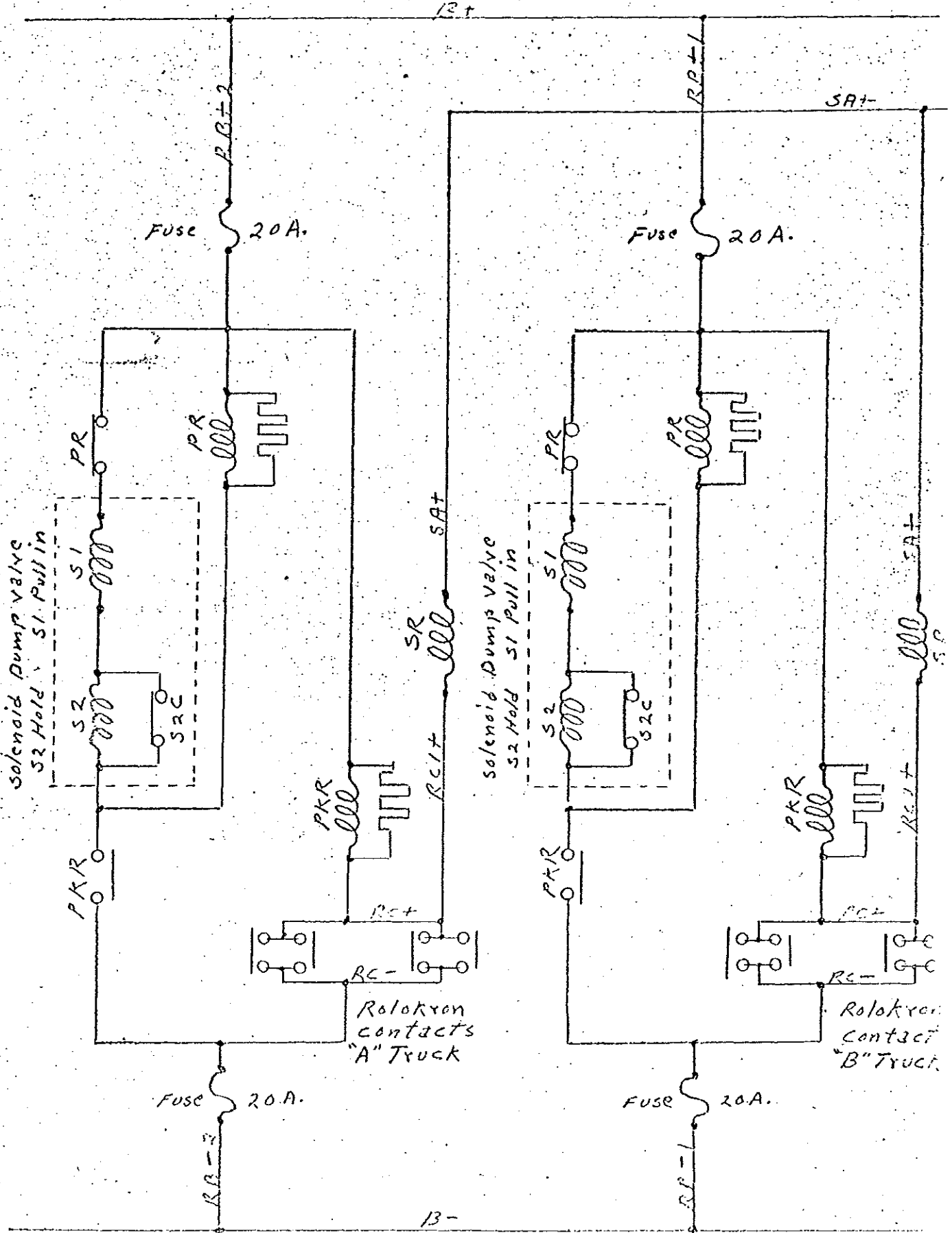


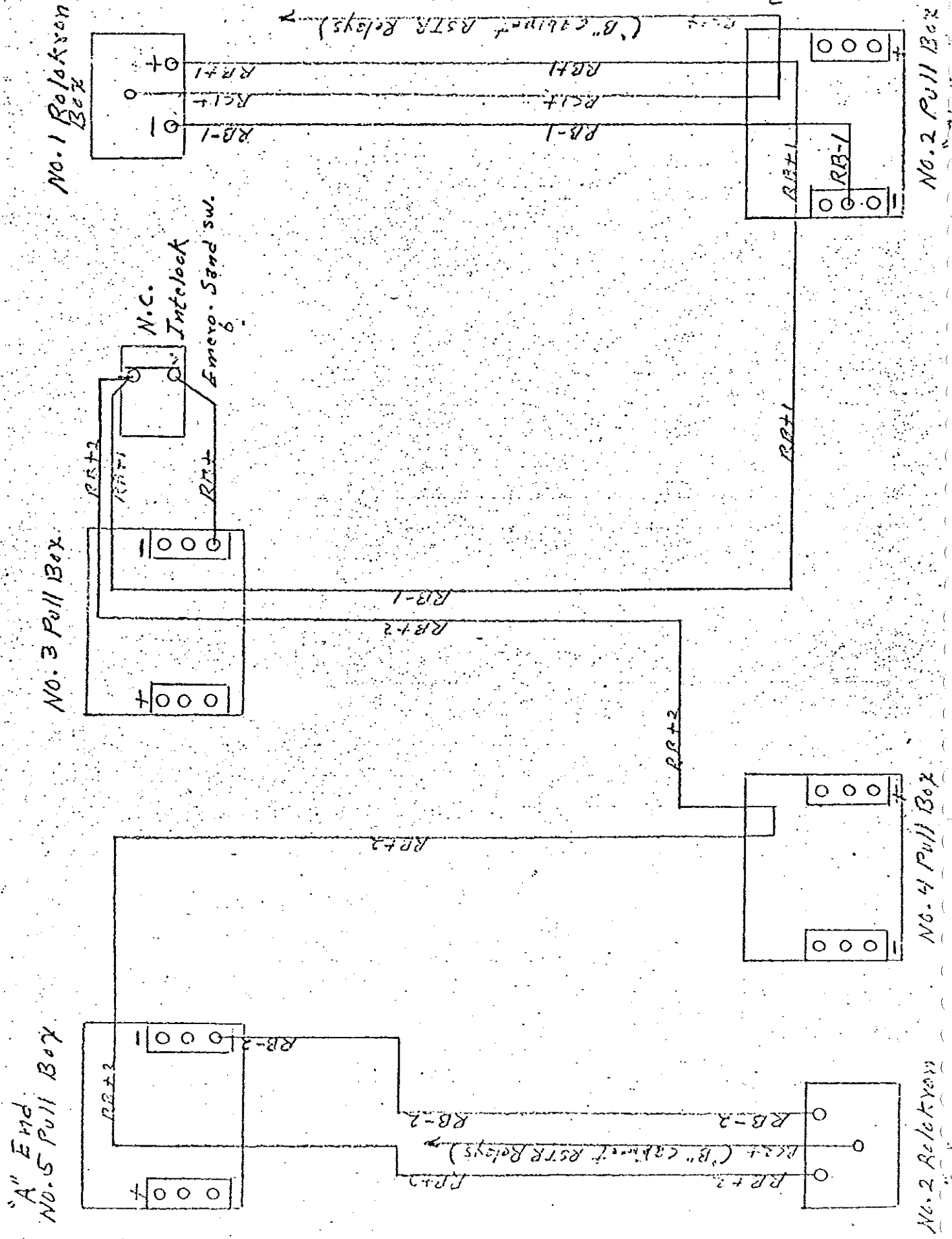
1295-
1/5
P.M.

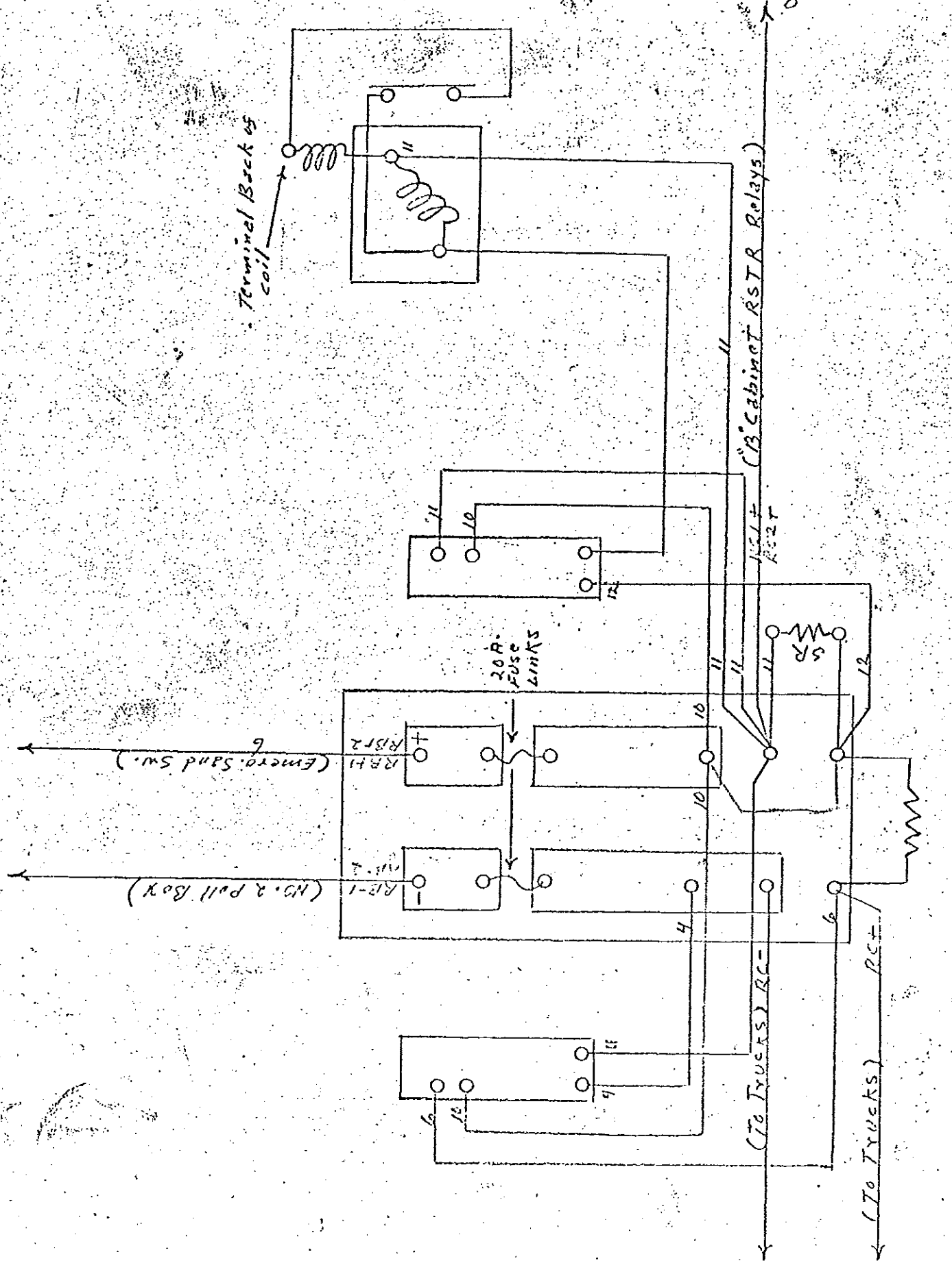
BY Rdg. Co. DATE 11/24/73 SUBJECT 1+2 Engines
 CHKD. BY Amtrak B-30, 3132 DATE 11/24/73 Failure Indicator
Operate Controls

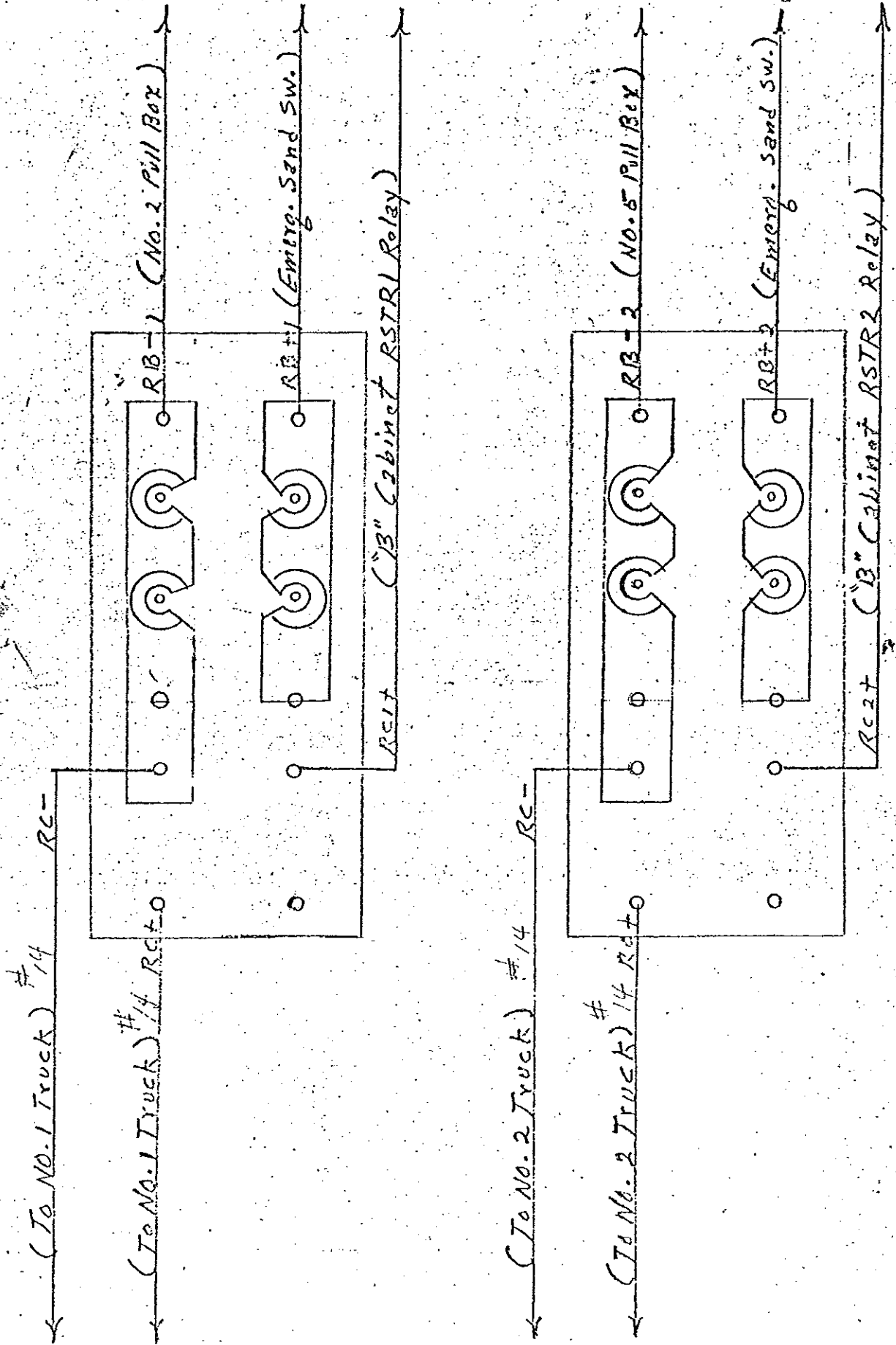
SHEET NO. 2 OF 2
 JOB NO. Page 96











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