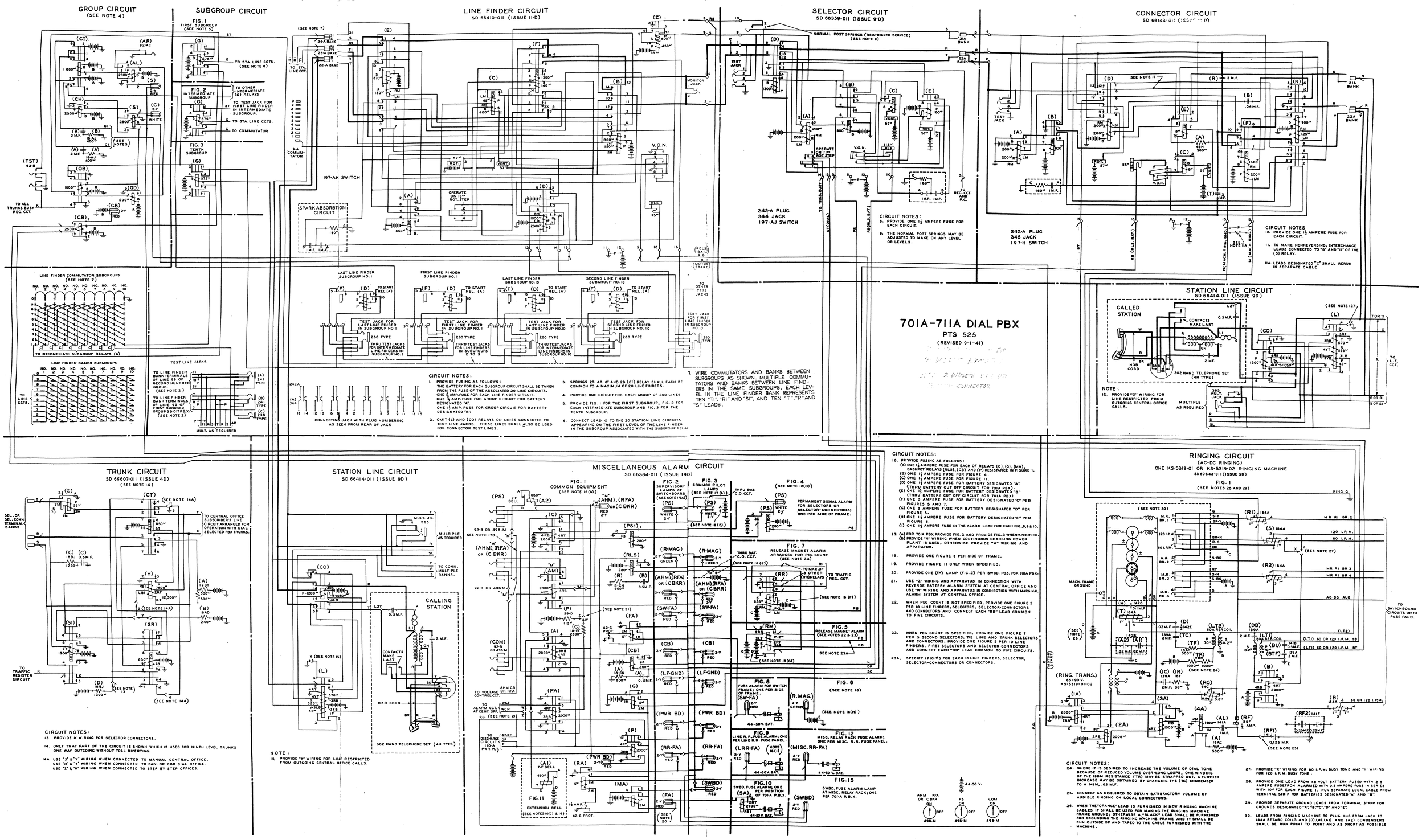
GROUP CIRCUIT
(SEE NOTE 4)
SUBGROUP CIRCUIT
FIG. 1 FIRST SUBGROUP (SEE NOTE 5)
FIG. 2 INTERMEDIATE SUBGROUP
FIG. 3 TENTH SUBGROUP
LINE FINDER CIRCUIT
SD 66410-011 (ISSUE 11-D)
197-AK SWITCH
SPARK ABSORBTION CIRCUIT
SELECTOR CIRCUIT
SD 66359-011 (ISSUE 9-D)
NORMAL POST SPRINGS (RESTRICTED SERVICE) (SEE NOTE 9)
242-A PLUG
344 JACK
197-AJ SWITCH
CIRCUIT NOTES:
8. PROVIDE ONE 1½ AMPERE FUSE FOR EACH CIRCUIT.
9. THE NORMAL POST SPRINGS MAY BE ADJUSTED TO MAKE ON ANY LEVEL OR LEVELS.
CONNECTOR CIRCUIT
SD 66143-011 (ISSUE 10-D)
242-A PLUG
345 JACK
197-H SWITCH
CIRCUIT NOTES
10. PROVIDE ONE 1½ AMPERE FUSE FOR EACH CIRCUIT.
11. TO MAKE NONREVERSING, INTERCHANGE LEADS CONNECTED TO "8" AND "11" OF THE (D) RELAY.
11A. LEADS DESIGNATED "G" SHALL RERUN IN SEPARATE CABLE.
LINE FINDER COMMUTATOR SUBGROUPS (SEE NOTE 7)
TO INTERMEDIATE SUBGROUP RELAYS (G)
LINE FINDER BANKS SUBGROUPS
TO LINE CCTS.
TEST LINE JACKS
TO LINE FINDER BANK TERMINALS OF LINE 99 OF SECOND HUNDRED GROUP. (SEE NOTE 2)
TO LINE FINDER BANK TERMINALS OF LINE 99 OF FIRST HUNDRED GROUP 3 DIGIT PBX. (SEE NOTE 2)
MULT. AS REQUIRED
CONNECTING JACK WITH PLUG NUMBERING AS SEEN FROM REAR OF JACK
LAST LINE FINDER SUBGROUP NO.1
FIRST LINE FINDER SUBGROUP NO.1
LAST LINE FINDER SUBGROUP NO.10
SECOND LINE FINDER SUBGROUP NO. 10
TEST JACK FOR LAST LINE FINDER IN SUBGROUP NO.1
TEST JACK FOR FIRST LINE FINDER IN SUBGROUP NO.1
TEST JACK FOR LAST LINE FINDER IN SUBGROUP NO.10
TEST JACK FOR SECOND LINE FINDER IN SUBGROUP NO.10
280 TYPE
THRU TEST JACKS FOR INTERMEDIATE LINE FINDERS IN SUBGROUP NO.1
THRU TEST JACKS FOR LINE FINDERS IN SUBGROUPS 2 TO 9
THRU TEST JACKS FOR INTERMEDIATE LINE FINDERS IN SUBGROUP NO.10
TEST JACK FOR FIRST LINE FINDER IN SUBGROUP NO.10
TO OTHER TEST JACKS
CIRCUIT NOTES:
1. PROVIDE FUSING AS FOLLOWS:
THE BATTERY FOR EACH SUBGROUP CIRCUIT SHALL BE TAKEN FROM THE FUSE OF THE ASSOCIATED 20 LINE CIRCUITS.
ONE 1½ AMP. FUSE FOR EACH LINE FINDER CIRCUIT.
ONE 1½ AMP. FUSE FOR GROUP CIRCUIT FOR BATTERY DESIGNATED "A".
ONE 1½ AMP. FUSE FOR GROUP CIRCUIT FOR BATTERY DESIGNATED "B".
2. OMIT (L) AND (CO) RELAYS ON LINES CONNECTED TO TEST LINE JACKS. THESE LINES SHALL ALSO BE USED FOR CONNECTOR TEST LINES.
3. SPRINGS 2T, 4T, 8T AND 2B (C1) RELAY SHALL EACH BE COMMON TO A MAXIMUM OF 20 LINE FINDERS.
4. PROVIDE ONE CIRCUIT FOR EACH GROUP OF 200 LINES
5. PROVIDE FIG. 1 FOR THE FIRST SUBGROUP; FIG. 2 FOR EACH INTERMEDIATE SUBGROUP AND FIG. 3 FOR THE TENTH SUBGROUP.
6. CONNECT LEAD G TO THE 20 STATION LINE CIRCUITS APPEARING ON THE FIRST LEVEL OF THE LINE FINDER IN THE SUBGROUP ASSOCIATED WITH THE SUBGROUP RELAY
7. WIRE COMMUTATORS AND BANKS BETWEEN SUBGROUPS AS SHOWN. MULTIPLE COMMUTATORS AND BANKS BETWEEN LINE FINDERS IN THE SAME SUBGROUPS. EACH LEVEL IN THE LINE FINDER BANK REPRESENTS TEN "T1", "R1" AND "S1", AND TEN "T", "R" AND "S" LEADS.
701A-711A DIAL PBX
PTS 525
(REVISED 9-1-41)
STATION LINE CIRCUIT
SD 66414-011 (ISSUE 9D)
CALLED STATION
CONTACTS MAKE LAST
302 HAND TELEPHONE SET (4H TYPE)
NOTE:
12. PROVIDE "X" WIRING FOR LINE RESTRICTED FROM OUTGOING CENTRAL OFFICE CALLS.
MULTIPLE AS REQUIRED
TRUNK CIRCUIT
SD 66607-011 (ISSUE 4D)
(SEE NOTE 14)
SEL. OR SEL. CONN. TERMINAL BANKS
TO CENTRAL OFFICE SUBSCRIBER'S LINE CIRCUIT ARRANGED FOR OPERATION WITH DIAL SELECTED PBX TRUNKS.
TO TRAFFIC REGISTER CIRCUIT
CIRCUIT NOTES:
13. PROVIDE K WIRING FOR SELECTOR CONNECTORS.
14. ONLY THAT PART OF THE CIRCUIT IS SHOWN WHICH IS USED FOR NINTH LEVEL TRUNKS ONE WAY OUTGOING WITHOUT TOLL DIVERTING.
14A. USE "S" & "Y" WIRING WHEN CONNECTED TO MANUAL CENTRAL OFFICE.
USE "H" & "Y" WIRING WHEN CONNECTED TO PAN. OR CBR DIAL OFFICE.
USE "Z" & "H" WIRING WHEN CONNECTED TO STEP BY STEP OFFICES.
STATION LINE CIRCUIT
SD 66414-011 (ISSUE 9D)
MULTIPLE AS REQUIRED
TO CONN. MULTIPLE BANKS.
CALLING STATION
CONTACTS MAKE LAST
H3B CORD
302 HAND TELEPHONE SET (4H TYPE)
NOTE:
13. PROVIDE "X" WIRING FOR LINE RESTRICTED FROM OUTGOING CENTRAL OFFICE CALLS.
MISCELLANEOUS ALARM CIRCUIT
SD 66384-011 (ISSUE 19D)
FIG. 1 COMMON EQUIPMENT (SEE NOTE 16(A))
FIG. 2 SUPERVISORY LAMPS ON SWBOARD (SEE NOTE 17(A))
FIG. 3 COMMON PILOT LAMPS (SEE NOTE 17(A))
FIG. 4 (SEE NOTE 16(B))
PERMANENT SIGNAL ALARM FOR SELECTORS OR SELECTOR-CONNECTORS; ONE PER SIDE OF FRAME.
FIG. 7 RELEASE MAGNET ALARM ARRANGED FOR PEG COUNT. (SEE NOTE 23)
FIG. 5 RELEASE MAGNET ALARM (SEE NOTES 22 & 23)
FIG. 6 (SEE NOTE 18)
FIG. 8 FUSE ALARM FOR SWITCH FRAME; ONE PER SIDE OF FRAME.
FIG. 9 LINE R.R. FUSE ALARM; ONE PER LINE R.R. FUSE PANEL.
FIG. 10 SWBD. FUSE ALARM; ONE PER POSITION OF 701-A P.B.X.
FIG. 11 EXTENSION BELL (SEE NOTES 16(C) & 19)
FIG. 12 MISC. RELAY RACK FUSE ALARM; ONE PER MISC. R.R. FUSE PANEL.
FIG. 15 SWBD. FUSE ALARM LAMP AT MISC. RELAY RACK; ONE PER 701-A P.B.X.
CIRCUIT NOTES:
16. PROVIDE FUSING AS FOLLOWS:
(A) ONE 1½ AMPERE FUSE FOR EACH OF RELAYS (C), (G), (MA), DASHPOT RELAYS (RLS), (CB) AND (P) RESISTANCE IN FIGURE 1.
(B) ONE 1½ AMPERE FUSE FOR FIGURE 4.
(C) ONE 1½ AMPERE FUSE FOR FIGURE 11.
(D) ONE 1½ AMPERE FUSE FOR BATTERY DESIGNATED "A". (THRU BATTERY CUT OFF CIRCUIT FOR 701A PBX).
(E) ONE 1½ AMPERE FUSE FOR BATTERY DESIGNATED "B" (THRU BATTERY CUT OFF CIRCUIT FOR 701A PBX)
(F) ONE 3 AMPERE FUSE FOR BATTERY DESIGNATED "C" PER FIGURES 5 AND 7.
(G) ONE 3 AMPERE FUSE FOR BATTERY DESIGNATED "D" PER FIGURE 5.
(H) ONE 1½ AMPERE FUSE FOR BATTERY DESIGNATED "E" PER FIGURE 6.
(I) ONE 1½ AMPERE FUSE IN THE ALARM LEAD FOR EACH FIG. 8, 9 & 10.
17. (A) FOR 701A PBX, PROVIDE FIG. 2 AND PROVIDE FIG. 3 WHEN SPECIFIED.
(B) PROVIDE "N" WIRING WHEN CONTINUOUS CHARGING POWER PLANT IS USED; OTHERWISE PROVIDE "M" WIRING AND APPARATUS.
18. PROVIDE ONE FIGURE 6 PER SIDE OF FRAME.
19. PROVIDE FIGURE 11 ONLY WHEN SPECIFIED.
20. PROVIDE ONE (FA) LAMP (FIG. 2) PER SWBD. POS. FOR 701A PBX.
21. USE "Z" WIRING AND APPARATUS IN CONNECTION WITH REVERSE BATTERY ALARM SYSTEM AT CENTRAL OFFICE AND USE "W" WIRING AND APPARATUS IN CONNECTION WITH MARGINAL ALARM SYSTEM AT CENTRAL OFFICE.
22. WHEN PEG COUNT IS NOT SPECIFIED, PROVIDE ONE FIGURE 5 PER 10 LINE FINDERS, SELECTORS, SELECTOR-CONNECTORS AND CONNECTORS AND CONNECT EACH "RB" LEAD COMMON TO FIVE CIRCUITS.
23. WHEN PEG COUNT IS SPECIFIED, PROVIDE ONE FIGURE 7 PER 5 SECOND SELECTORS, TIE LINE AND TRUNK SELECTORS AND CONNECTORS. PROVIDE ONE FIGURE 5 PER 10 LINE FINDERS, FIRST SELECTORS AND SELECTOR-CONNECTORS AND CONNECT EACH "RB" LEAD COMMON TO FIVE CIRCUITS.
23A. SPECIFY (FIG. 5) FOR EACH 10 LINE FINDERS, SELECTOR, SELECTOR-CONNECTORS OR CONNECTORS.
RINGING CIRCUIT
(AC-DC RINGING)
ONE KS-5319-01 OR KS-5319-02 RINGING MACHINE
SD 80643-011 (ISSUE 5D)
FIG. 1 (SEE NOTES 28 AND 29)
(RING. TRANS.) KS-5319-01-02
TO SWITCHBOARD CIRCUITS OR TO FUSE PANEL
CIRCUIT NOTES:
24. WHERE IT IS DESIRED TO INCREASE THE VOLUME OF DIAL TONE BECAUSE OF REDUCED VOLUME OVER LONG LOOPS, ONE WINDING OF THE 184M RESISTANCE (TR) MAY BE STRAPPED OUT. A FURTHER INCREASE MAY BE OBTAINED BY CHANGING THE (TC) CONDENSER TO A .141M, .05 M.F.
25. CONNECT AS REQUIRED TO OBTAIN SATISFACTORY VOLUME OF AUDIBLE RINGING ON LOCAL CONNECTORS.
26. WHEN THE "ORANGE" LEAD IS FURNISHED IN NEW RINGING MACHINE CABLES IT SHALL BE USED FOR MAKING THE RINGING MACHINE FRAME GROUND; OTHERWISE A "BLACK" LEAD SHALL BE FURNISHED FOR GROUNDING THE RINGING MACHINE FRAME AND IT SHALL BE RUN OUTSIDE OF AND TAPED TO THE CABLE FURNISHED WITH THE MACHINE.
27. PROVIDE "X" WIRING FOR 60 I.P.M. BUSY TONE AND "Y" WIRING FOR 120 I.P.M. BUSY TONE.
28. PROVIDE ONE LEAD FROM 48 VOLT BATTERY FUSED WITH 2.5 AMPERE FUSETRON ALARMED WITH 0.5 AMPERE FUSE IN SERIES WITH 10Ω FOR EACH FIGURE 1. RUN SEPARATE LOCAL CABLE FROM TERMINAL STRIP FOR BATTERIES DESIGNATED "A" AND "B".
29. PROVIDE SEPARATE GROUND LEADS FROM TERMINAL STRIP FOR GROUNDS DESIGNATED "A", "B", "C", "D" AND "E".
30. LEADS FROM RINGING MACHINE TO PLUG AND FROM JACK TO 184A RETARD COILS AND (D),(M),(A1) AND (A2) CONDENSERS SHALL BE RUN POINT TO POINT AND AS SHORT AS POSSIBLE