



REV	DATE	BY	REASON
1	7-29-55		
2D	11-16-55		
3D	1-27-57		
4D	9-24-57		

- 197FU SWITCH
- 197FF SWITCH
- 197FP SWITCH

CIRCUIT NOTES:

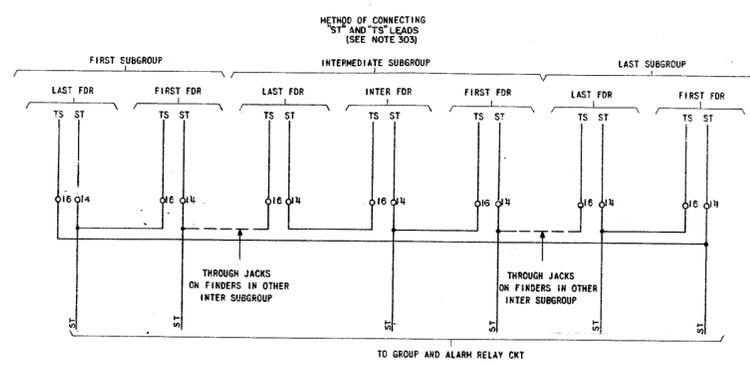
DESIG	AMP	POTENTIAL FUSED	NO. OF FINDERS IN GROUP	ONE PER
-3	48V SIG	20	2 FIGS. 2 OR 16 IN SAME SUB GROUP	
3	48V SIG	30	3 FIGS. 2 OR 16 IN SAME SUB GROUP	

109. RECORD OF FIGURES, WIRING, AND APPARATUS CHANGES

CHANGES REQUESTED	IF JOB ON ISS	THIS WAS NOT SPECIFIED	SEE NOTE	USE IN CIRCUIT
4D	V OR M	V	104	K, M
5D	K OR M	M	104	K, M
7D	K OR M	M	104	K, M
10D	G	J	106	G

110. LEAD "ST" CONNECTS TO TERMINAL 14 SWITCH NO. 2.

FIG. 101



102. LEADS "C", "D", AND "E" ARE FOR ASM ONLY.

103. (A & M ONLY)

FEATURE OR OPTION	PROVIDE	ASSOC CAD NO.
WITH RESTRICTED SERVICE BY FINDER LEVELS	14 Y 1 PER FIG. 2	25
WITHOUT RESTRICTED SERVICE	Z 1 PER FIG. 2	24
FOR MIXED COIN AND NON-COIN GROUP WITH POSTPAY COIN TRUNK OPERATION BY FINDER LEVELS	Y 1 PER FIG. 2	25
FOR UNMIXED COIN GROUP	Z 1 PER FIG. 2	24
WITH MESSAGE RATE AUXILIARY LINE CKTS.	N 1 PER FIG. 2	24
WITH MESSAGE RATE TRUNK OPERATION OR WITH MESSAGE RATE AUXILIARY LINE CIRCUITS	Z 1 PER FIG. 2	24
WITH PREPAY COIN LINES AND LONG LINE EQUIPMENT	15 Y 1 PER FIG. 2	34

105. PROVIDE OPTIONAL APPARATUS, WIRING, AND NORMAL POST SPRING TERMINAL STRAPPING IN ACCORDANCE WITH THE FOLLOWING TABLE:

FIG.	APP & WIRING	NORMAL POST SPRINGS WHICH SHALL OPERATE	GROUND ON LEAD	SEE FOOT NOTE	TERMINAL STRAPPING AND LEAD DESIGNATIONS (SEE NOTE 107)
3	X	RIGHT LEFT RIGHT & LEFT	DIRECT RES NONE RES NONE NONE	YES NONE YES NONE YES NONE	(A) RS-1340, L1 TO FIRST SEL OR SEL REP
4	X	RIGHT LEFT RIGHT & LEFT	DIRECT RES NONE RES NONE NONE	YES NONE YES NONE YES NONE	(A) RS-1340, L1 TO FIRST SEL OR SEL REP
5	X	RIGHT LEFT RIGHT & LEFT	DIRECT RES NONE RES NONE NONE	YES NONE YES NONE YES NONE	(A) RS-1340, L1 TO FIRST SEL OR SEL REP
6	X	RIGHT LEFT RIGHT & LEFT	DIRECT RES NONE RES NONE NONE	YES NONE YES NONE YES NONE	(A) RS-1340, L1 TO FIRST SEL OR SEL REP
7	Y, Q	LEFT	DIRECT	YES (4)	"RS" LEAD TO POSTPAY COIN TRUNK OR TO SEL REP
8	X	RIGHT LEFT RIGHT & LEFT	DIRECT RES NONE RES NONE NONE	YES (6) YES (6) YES (6)	(A) RS-1340, L1 TO FIRST SEL OR SEL REP
9	X	RIGHT LEFT RIGHT & LEFT	DIRECT RES NONE RES NONE NONE	YES NONE YES NONE YES NONE	(A) RS-1340, L1 TO FIRST SEL OR SEL REP
10	Z	NONE	RES NONE	NONE	TO FIRST SEL OR SEL REP
11	Z	NONE	DIRECT NONE	NONE	TO FIRST SEL OR SEL REP
12	X	RIGHT LEFT RIGHT & LEFT	RES NONE RES NONE	YES (7) YES (7)	(A) RS-1340, L1 TO FIRST SEL OR SEL REP
13	Y, T	LEFT	DIRECT	YES	TO FIRST SEL OR SEL REP
14 (A & M ONLY)	Y	LEFT	NONE	YES	TO SEL OR POSTPAY COIN TRUNK
15	Y	LEFT	NONE	NONE	TO PREPAY COIN TRUNK

106. CONTACT PROTECTION

NO.	NET CODE	RESISTANCE	CAPACITY	REMARKS
1	178A	150	1.0	(A)
2	*			(B)

\* THE (A) NETWORK CONSISTS OF 2-5420 CAPACITORS 1.0UF EACH AND 1-KS13490, L2 RESISTOR 150 OHMS.  
107. STRAPPING TO BE PROVIDED ON ORDER.

104.

FEATURE OR OPTION	NO. 1	355A	360A	ASSOC CAD NO.
LINE OR TRUNK FINDER				
WITH POSTPAY COIN TRUNK OR WITH ONE CLASS OF SERVICE TONE BY FINDER LEVELS AND WITH OR WITHOUT AUXILIARY POSTPAY COIN LINES	X, FIG. 8			11
WITH RESTRICTED SERVICE BY FINDER LEVELS	Y, Q			12
WITHOUT RESTRICTED SERVICE	Z			10
WITH SINGLE PARTY MESSAGE RATE TRUNK OPERATION AND ONE CLASS OF SERVICE TONE BY FINDER LEVELS	Y, W			2
WITH RESTRICTED SERVICE BY FINDER LEVELS	X, FIG. 13			6
WITHOUT RESTRICTED SERVICE	Z			6
WITH OR WITH-OUT AUXILIARY POSTPAY COIN LINES	X, FIG. 9			4
WITH ONE CLASS OF SERVICE TONE BY FINDER LEVELS OR RESTRICTED SERVICE BY FINDER LEVELS	Y, W			3
WITHOUT RESTRICTED SERVICE	Z			5
WITH OR WITH-OUT AUXILIARY POSTPAY COIN LINES	Y, R			8
WITH ONE CLASS OF SERVICE TONE BY FINDER LEVELS	Z, FIG. 10			9
WITH RESTRICTED SERVICE BY FINDER LEVELS	Y, T			4
WITHOUT CLASS OF SERVICE TONE	Z			4
WITH POST PAY COIN TRUNK	Y, S			10
WITHOUT RESTRICTED SERVICE OR POSTPAY COIN TRUNK OPERATION	Z			2
TRUNK FINDER	Y, W			29
FOR REGULAR AND TROUBLE INTERCEPTING SERVICE WHEN Y OPTION IS NOT REQUIRED	Z			29
LINE FINDER	M			2

- TWO TYPES OF TONE TO OPERATOR ARE AVAILABLE. WHEN DIRECT GROUND ON THE "A" LEAD PROVIDES CONTINUOUS TONE, RESISTANCE GROUND PROVIDES INTERRUPTED TONE OR VICE VERSA DEPENDING UPON THE ARRANGEMENT OF THE OPERATOR OFFICE TRUNK. ABSENCE OF GROUND RESULTS IN NO TONE TO OPERATOR.
- WHEN COIN AND NON COIN LINES ARE SERVED BY THE SAME FINDER WITH A POSTPAY COIN TRUNK, GROUND ON THE "RS" OR "EC" LEAD ENABLES THE TRUNK FOR LEVELS ON WHICH THE COIN LINES APPEAR.
- GROUND ON THE "RS" OR "EC" LEAD TO THE SELECTOR SERIES ACCESS TO CERTAIN SELECTOR LEVELS FROM LINE FINDER LEVELS WHERE NORMAL POST SPRINGS ARE ADJUSTED TO PROVIDE GROUND.
- WHEN NORMAL POST SPRINGS DO NOT OPERATE, THERE WILL BE FULL ACCESS TO ALL SELECTOR LEVELS, NO TONE TO OPERATOR, AND NO ENGAGEMENT OF POST PAY COIN TRUNK.
- WHEN AUXILIARY POSTPAY COIN LINES ARE USED WITHOUT POSTPAY COIN TRUNKS.
- WHEN POSTPAY COIN TRUNKS ARE USED.
- AT LEAST ONE SET OF NORMAL POST SPRINGS SHALL OPERATE ON EACH LEVEL HAVING LINE CIRCUITS CONNECTED THERE TO.
- LEFT NORMAL POST SPRINGS ARE TO OPERATE ON THOSE LEVELS TO WHICH LONG LINE CIRCUITS ARE CONNECTED.

108. OPTIONS USED

FIGS.	APP OR WIRING
1	101
2	Y
3	X
4	M
5	V
6	U
7	S
8	S
9	R
10	Q
11	N
12	N
13	M
14	K
15	J
16	G

WORKING LIMITS (SEE NOTE 301):  
FINDER BANK TERMINAL TO HOLDING GROUND  
MAX BUSY SLEEVE POTENTIAL  
FIG. 2: -2.4V  
FIG. 16: -4.3V

- INFORMATION NOTES:
- USE VOLTAGE LIMIT AS MEASURED ON BUSY FINDER SLEEVE LEAD WITH ANY STANDARD VOLTMETER OF AT LEAST 1000Ω PER VOLT.
  - WHEN THIS FINDER IS INSTALLED IN SHELF UNITS EQUIPPED WITH TEST AND MAKE BUSY JACKS, IT MAY BE MADE BUSY EITHER BY OPERATING THE (MB) KEY OR BY INSERTING A PLUG IN THE TEST AND MAKE BUSY JACKS. IF THE FINDER IS TESTED FROM THE TEST AND MAKE BUSY JACKS, THE MB KEY SHOULD BE UNOPERATED.
  - A SUBGROUP CONSISTS OF FINDERS HAVING THE FOLLOWING DESIGNATIONS:  
IN A 20 FINDER GROUP THERE ARE TWO FINDERS PER SUBGROUP NUMBERED 1, 11, 2, 12, ETC., AND CONNECTED AS SHOWN IN FIG. 101 WITH POSITIONS WIRED AS SHOWN FOR FIRST AND LAST SUBGROUP.  
IN A 30 FINDER GROUP THERE ARE THREE FINDERS PER SUBGROUP NUMBERED 1, 11, 21, 2, 12, 22, ETC AND CONNECTED AS SHOWN IN FIG. 101 WITH POSITIONS WIRED AS SHOWN FOR INTERMEDIATE SUBGROUP.
  - THE "A" LEAD IS FOR USE IN AUTOMATIC TICKETING OR AHA OFFICES WHEN CLASS INDICATION IS REQUIRED FROM LINE FINDER.
  - WHEN THIS FINDER IS INSTALLED IN SHELF UNITS EQUIPPED WITH TEST AND MAKE BUSY JACKS, THIS MULTIPLE STRAP IS NOT REQUIRED.
  - WITH "K" OPTION THE GROUND WITHIN THE SWITCH IN FIG. 2 IS SUPPLIED THROUGH THE (C) RESISTOR. WITH "M" OPTION ALL GROUNDS ARE DIRECT GROUNDS AS SHOWN.

200 POINT LINE OR TRUNK FINDER  
BELL TELEPHONE LABORATORIES  
SD-33013-01-1

ISSUE 10D

APPARATUS		MECH. REPT.		CIRCUIT PREPARATION		TEST		DIRECT CURRENT FLOW REPT.		REMARKS
DESIG.	CODE	OPTIM.	REL.	REL.	TEST CLIP DATA	TEST CLIP DATA	TEST CLIP DATA	TEST CLIP DATA	TEST CLIP DATA	
RELAYS										
A	221KR	2	5-4	13	11(O)	GRD	0	FS	12.6	12
B	222CM	2	5-4	114	11(O)	GRD	1	P	0	FS
C	221CP	2	4-7	356	11(O)	GRD	1	P	0	FS
C	221CP	16	4-7	356	11(O)	GRD	2	S	0	FS

APPARATUS		MECH. REPT.		CIRCUIT PREPARATION		TEST		DIRECT CURRENT FLOW REPT.		REMARKS
DESIG.	CODE	OPTIM.	REL.	REL.	TEST CLIP DATA	TEST CLIP DATA	TEST CLIP DATA	TEST CLIP DATA	TEST CLIP DATA	
RELAYS										
D	222CM	2	5-4	129	11(A)	GRD	7	P	0	FS
E	221KR	2	4-5	130	11(O)	GRD	3	P	0	FS
F	222CP	2	5-2	117	11(O)	GRD	5	P	0	FS
F	222CP	16	5-2	117	11(O)	GRD	9	S	0	FS

TEST NOTES:

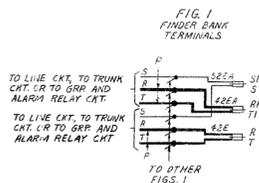
- TEST - CONT. 1-2 MAKE BEFORE SPG. 1 STRIKES BUSHING ON N.
- ADJUSTING NEED NOT TOUCH COIL.
- RELEASE KEY OF CURRENT FLOW TEST SET SHALL BE OPEN.
- CONTACTS 1-2 MAY MAKE.
- ADJUST VON. SPRINGS 3 & 4 MIN. TEST 40 GRAMS, READ 45 GRAMS.

6. SPRING 19 SHALL MAKE CONTACT WITH SPRING 16 WHEN SWITCH IS REMOVED FROM FRAME.

7. TEST CONTACTS 8-9 SHALL MAKE BEFORE CONTACTS 6-7 AND 12-13 MAKE. CONT. PRESS. SPGS. 11-12 MIN. 15 GRAMS.

8. CONTACTS 1-2 MAY MAKE B 3-4 MAY MAKE.

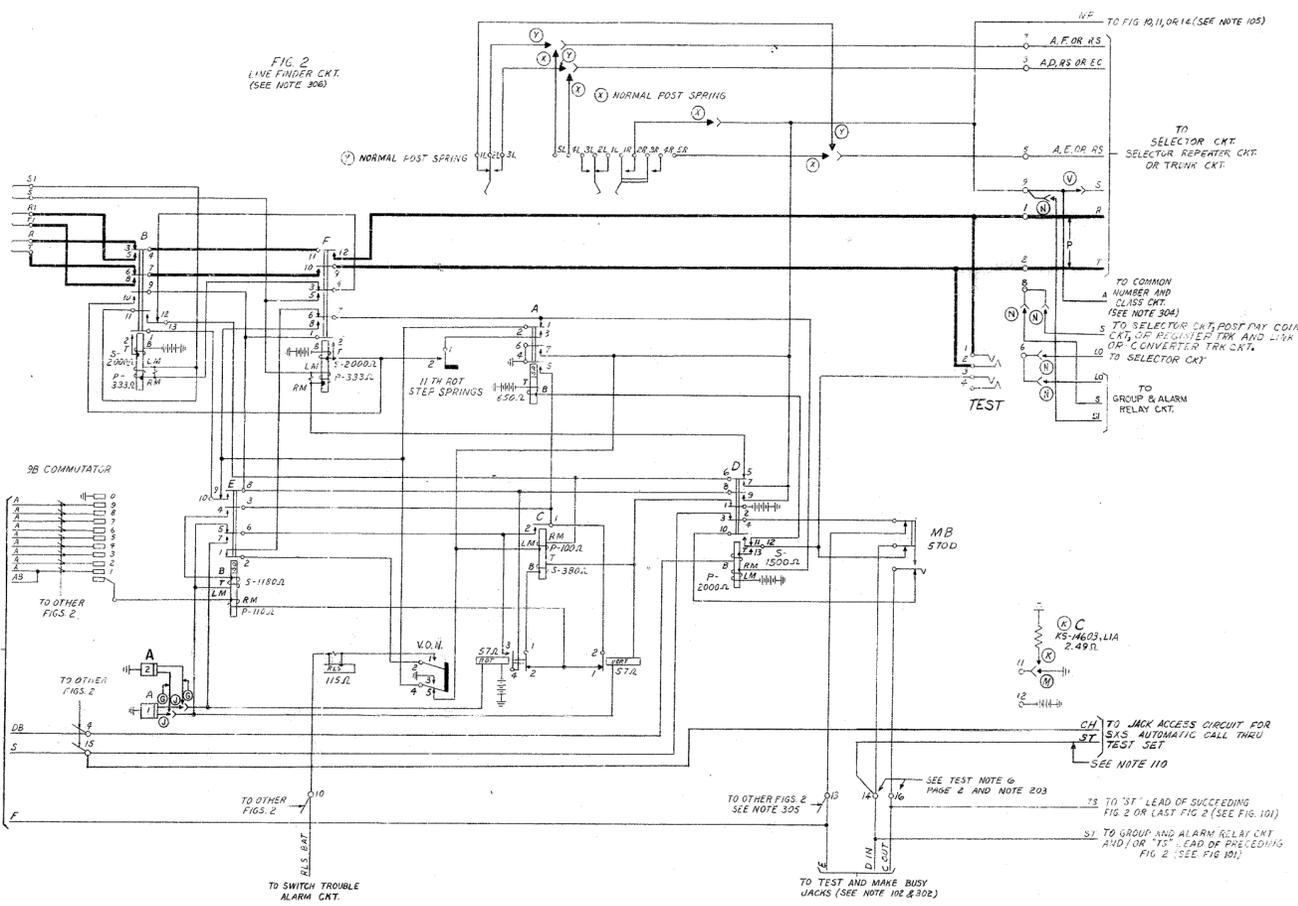
9. CONTACTS 1-2 MAY MAKE B 3-4 MAY MAKE.



TO LINE CKT. TO TRUNK CKT. OR TO GRP AND ALARM RELAY CKT.

TO LINE CKT. TO TRUNK CKT. OR TO GRP AND ALARM RELAY CKT.

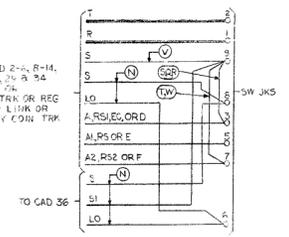
TO OTHER FIGS. 1



ISSUE 10D

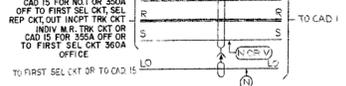
**CAD 1**

(FOR FIGS. 2-14)  
LINE FINDERS OF TRUNK FINDERS  
NO. 1, 350A, 355A, 360A OR 35-E-97  
SEE NOTE 202 (MFR DISC)



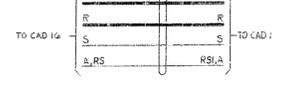
**CAD 2**

(FOR FIG. 2 WITH "Y" OPTION)  
FOR TRUNK FINDERS OR LINE FINDERS IN NO. 1, 350A, 355A OR 360A OFFICE  
SEE NOTE 204



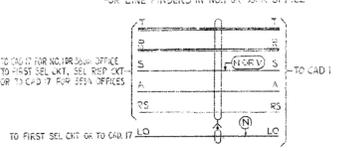
**CAD 3**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 13 WITH "W" OPTION)  
FOR LINE FINDERS IN NO. 1 OR 350A OFFICE



**CAD 4**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 13) OR  
(FOR FIG. 2 WITH "Y" OPTION & FIG. 13) OR  
(FOR FIG. 2 WITH "Y" OPTION & FIG. 13)  
FOR LINE FINDERS IN 355A OFFICES  
(FOR FIG. 2 WITH "Y" OPTION & FIG. 13 WITH "T" OPTION)  
FOR LINE FINDERS IN NO. 1 OR 350A OFFICE



**CAD 5**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 13 WITH "W" OPTION)  
FOR LINE FINDERS IN 350A OFFICE



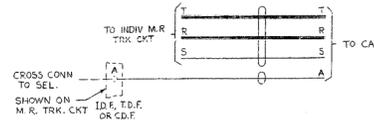
**CAD 34 (A&M ONLY)**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 15)  
TO CAD 35 FOR  
NO. 1 OR 350A OFFICES  
TO PREPAY COIN TRK.  
CTK. OR CAD 35 FOR  
355A OFFICES



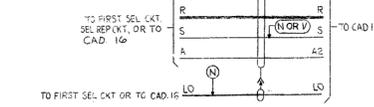
**CAD 6**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 13 WITH "W" OPTION)  
FOR LINE FINDERS IN NO. 1, 350A, OR 355A OFFICE  
SEE NOTE 204



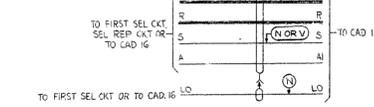
**CAD 8**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 7 WITH "Q" OR "K" OPTION)  
FOR LINE FINDERS IN 355A OFFICE



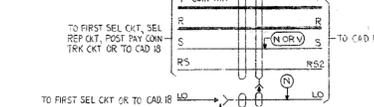
**CAD 9**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 10 OR 11)  
FOR LINE FINDERS IN 355A OFFICE



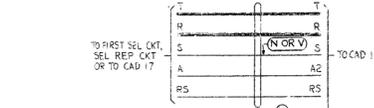
**CAD 10**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 7 WITH "S" OR "T" OPTION)  
FOR LINE FINDERS IN 355A OFFICE



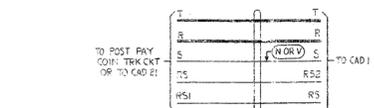
**CAD 11**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 8)  
FOR LINE FINDERS IN 355A OFFICE



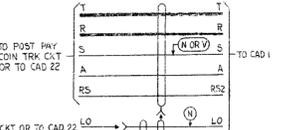
**CAD 12**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 8)  
FOR LINE FINDERS IN 355A OFFICE  
SEE NOTE 201



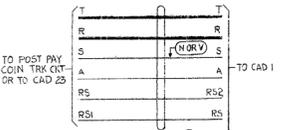
**CAD 13**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 13 WITH "S" OR "T" OPTION) OR  
FOR LINE FINDERS IN 355A OFFICES



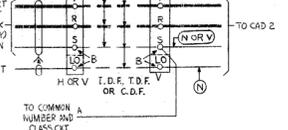
**CAD 14**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 4) OR  
(FOR FIG. 2 WITH "Y" OPTION & FIG. 12)  
FOR LINE FINDERS IN 355A OFFICE  
SEE NOTE 201



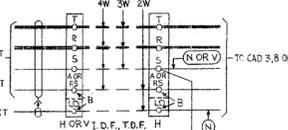
**CAD 15**

(FOR FIG. 2 WITH "Y" OR "Z" OPTION)



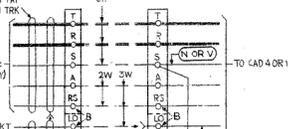
**CAD 16**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 7 WITH "Q" OR "K" OPTION) OR  
(FOR FIG. 2 WITH "Y" OPTION & FIG. 10 OR 11) OR  
(FOR FIG. 2 WITH "Y" OPTION & FIG. 13 WITH "W" OPTION)



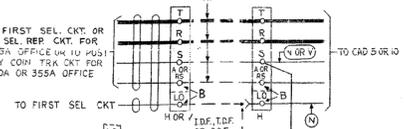
**CAD 17**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 3) OR  
(FOR FIG. 2 WITH "Y" OPTION & FIG. 6) OR  
(FOR FIG. 2 WITH "Y" OPTION & FIG. 8) OR  
(FOR FIG. 2 WITH "Y" OPTION & FIG. 13 WITH "T" OPTION)



**CAD 18**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 7 WITH "S" OR "T" OPTION) OR  
(FOR FIG. 2 WITH "Y" OPTION & FIG. 13 WITH "W" OPTION)



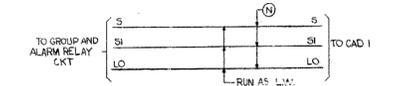
**CAD 37**

(FOR FIG. 2 OR 16)  
TO JACK ACCESS  
CKT FOR EXS AUTO,  
CALL THRU TEST  
SET.



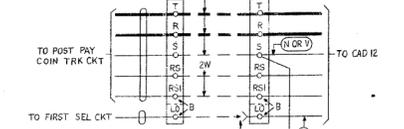
**CAD 36**

FOR LINE FINDERS IN 355A OFFICE  
WHEN TIME RELEASE OF PERMANENT  
SIGNAL IS REQUIRED



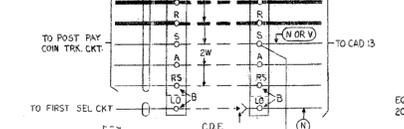
**CAD 21**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 8)



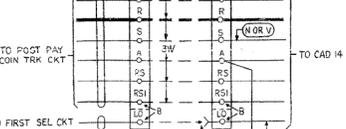
**CAD 22**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 5)



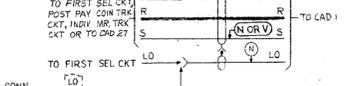
**CAD 23**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 4) OR  
(FOR FIG. 2 WITH "Y" OPTION & FIG. 12)



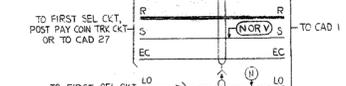
**CAD 24 (A&M ONLY)**

(FOR FIG. 2 WITH "Y" OPTION)  
FOR LINE FINDERS IN 35-E-97 OFFICE



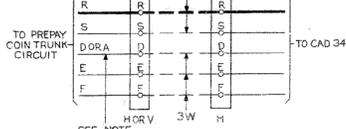
**CAD 25 (A&M ONLY)**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 14)  
FOR LINE FINDERS IN 35-E-97 OFFICE



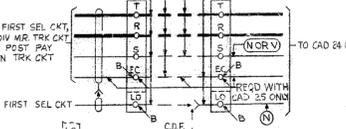
**CAD 35 (A&M ONLY)**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 15)



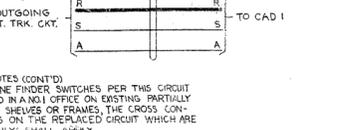
**CAD 27 (A&M ONLY)**

(FOR FIG. 2 WITH "Y" OPTION OR  
FOR FIG. 2 WITH "Y" OPTION & FIG. 14)



**CAD 29**

(FOR FIG. 2 WITH "Y" OPTION & FIG. 13 WITH "W" OPTION)  
FOR INTERCEPTING TRUNK FINDERS IN NO. 1, 350A, OR 355A OFFICE

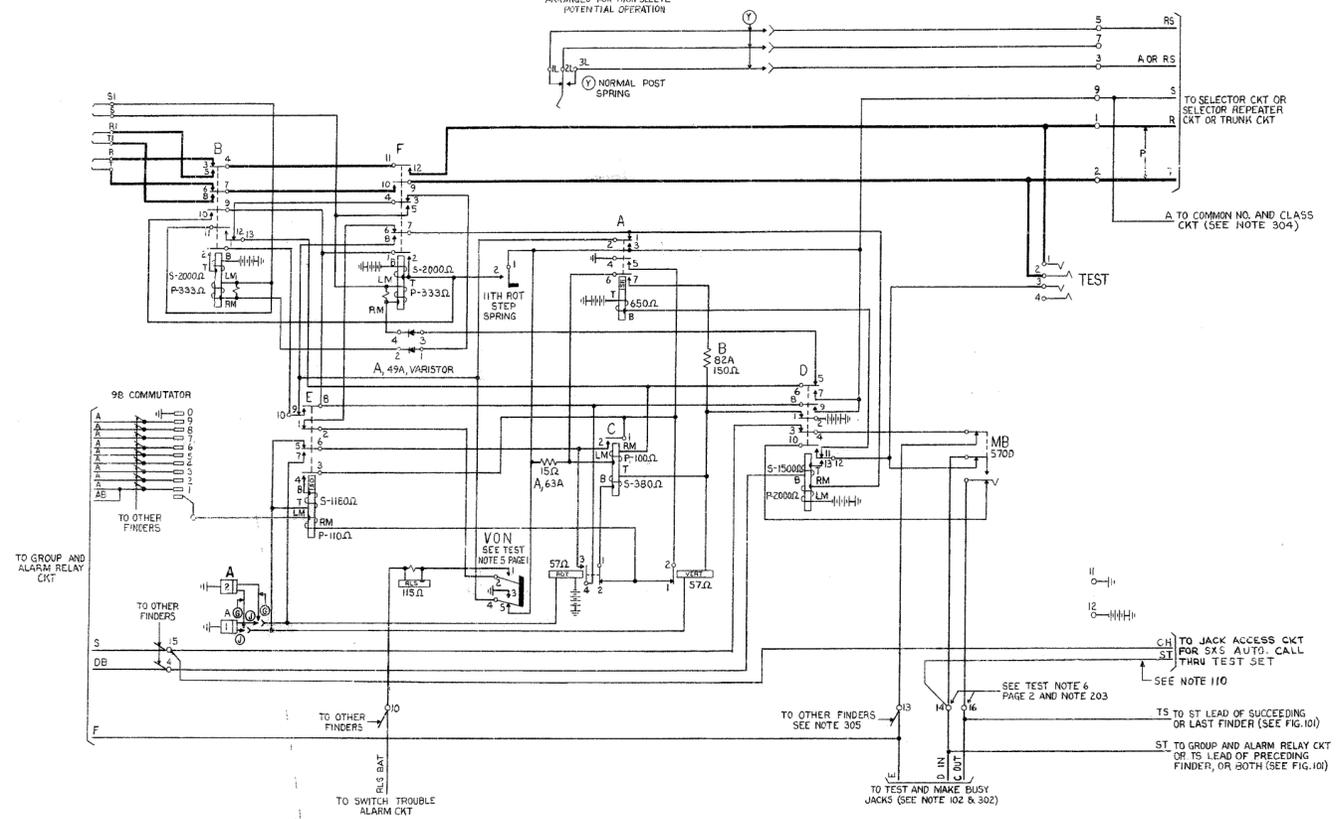


EQUIPMENT NOTES:  
201. TO FACILITATE CABLING, THE "R" AND "RS" LEADS ARE DOUBLED UP AT THE COIN TRUNK UNIT BEFORE CONNECTIONS TO THE SELECTOR OR SELECTOR REPEATER CIRCUITS.  
(MFR DISC)  
202. WHEN LINE FINDER AND TRUNK FINDER SWITCHES PER THIS CIRCUIT ARE USED IN A 350A OFFICE, THE CROSS-CONNECTIONS ON THE REPLACED CIRCUIT WHICH IS RATED "A&M ONLY" SHALL APPLY.  
203. JACK SPRINGS 14 AND 16 SHALL BE STRIPPED 1/16" AT UNEQUIPPED FINDER POSITIONS.  
204. THE OPTIONAL DISTRIBUTING FRAME CONNECTIONS BETWEEN THE LINE FINDER AND THE INDIVIDUAL MESSAGE RATE TRUNK ARE SHOWN ON THE TRUNK CIRCUIT DISTRIBUTING FRAME JUMPERS BETWEEN LINE FINDERS AND INDIVIDUAL MESSAGE RATE TRUNKS SHALL BE FURNISHED ONLY WHEN SPECIFIED BY THE TELEPHONE CO.  
205. CABLING DIAGRAM FIGURE NUMBERS, CAD 7, CAD 19, CAD 20, CAD 26, AND CAD 28 WERE NOT USED ON 15-11-1.  
206. CADS 30 AND 31 MAY APPLY TO THE SAME TRUNK GROUP, HOWEVER, REGARDLESS OF THE TYPE OF INTERCEPT, THE TRUNK FINDER BANKS SHALL BE CABLED TO THE DISTRIBUTING FRAME AS A COMMON GROUP OF CIRCUITS.  
207. THE 10 START CMT LEADS FOR EACH TRUNK FOR UNIT SHALL BE TERMINATED AT THE LINE OR CDF ON AN ADDITIONAL ROW OF TERMINALS ON THE TERMINAL STRIP SERVING THE FIRST TRUNK PER MULTIPLE CIRCUITS (OPPOSITE CIRCUITS 1-10).  
208. LINE PINS CABLED PER CAD 15 MAY UTILIZE THE "D" OR "A" LEAD FOR CLASS OF SERVICE INDICATION IF LONG LINE CATE ARE NOT USED.  
**CAD 30**  
(FOR FIG. 1)  
FOR INTERCEPTING TRUNK FINDERS IN NO. 1, 350A OR 355A OFFICE WITH INCPY TRK ON REL RACK  
SEE NOTE 206  
TO BANKS OF TRK FOR  
LOOP AT POS OF (S7) & (C0) RELS  
BANK 1 IS ON TRK FOR UNIT  
**CAD 31**  
(FOR FIG. 1)  
FOR INTERCEPTING TRUNK FINDERS IN NO. 1, 350A OR 355A OFFICE WITH INCPY TRK ON TRK FOR UNIT  
SEE NOTE 206  
TO BANKS OF TRK FOR  
BANK 1 IS ON TRK FOR UNIT  
**CAD 32**  
(FOR FIG. 1)  
SEE NOTE 207  
SHOWN ON GROUP & ALM. REL. CKT.  
CROSS CONN TO INCPY TRK FROM LOC OR TOLL SEL BANKS OR FROM R.U. LINES.  
V.I.D.F. OR V.C.D.F.  
**CAD 33**  
(FOR FIG. 1)  
3W FOR 2 SETS AS RECD  
CROSS CONN TO COIN MULT. AS SHOWN ON DRAWING OF CROSS-CONNS FOR LINE CKTS AT DIST. FRAMES  
V.I.D.F. OR V.C.D.F.

ISSUE

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FIG. 16  
 (SPECIAL)  
 LINE FINDER CKT  
 ARRANGED FOR HIGH SLEEVE  
 POTENTIAL OPERATION



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 10D