

| SHEET INDEX & ISSUE TABLE  |       |    |    |    |    |    |    |    |    |    |    |    |    |
|--|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| SHEETS OF THIS DRAWING AGREE WITH DESIGN INFORMATION AS FOLLOWS: |       |    |    |    |    |    |    |    |    |    |    |    |    |
| ED-30976-01  | ISS   | 8  | 8  | 8  | 9  | 9  | 9  | 10 | 11 | 11 |    |    |    |
| SD-30976-01  | ISS   | 16 | 16 | 16 | 18 | 18 | 19 | 20 | 21 | 22 | 22 |    |    |
| BSP-814-401-150<br>(J32310)                                      |       |    |    |    |    |    |    |    |    |    |    |    |    |
| BSP-814-401-151<br>(J32302)                                      |       |    |    |    |    |    |    |    |    |    |    |    |    |
| SHEET  | ISSUE | A1 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
|  |       | A2 | 17 | 17 | 17 | 21 | 21 | 23 | 23 | 25 | 26 | 27 |    |
|  |       | B1 | 17 | 18 | 19 | 20 | 21 | 22 | 22 | 25 | 26 | 26 |    |
|  |       | C1 | 17 | 17 | 17 | 20 | 21 | 21 | 23 | 23 | 25 | 26 | 26 |

| SHEET INDEX NOTES |   |
|-------------------|---|
| 1.                | WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.   |
| 2.                | THIS SHEET INDEX WILL BE REISSUED AND BROUGHT UP TO DATE EACH TIME ANY SHEET OF THE DRAWING IS REISSUED, OR A NEW SHEET IS ADDED. |
| 3.                | THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.                     |
| 4.                | SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.  |
| 5.                | THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.                      |

| RECORD OF FIGURES, APPARATUS AND WIRING CHANGES |                           |                |                           |          |        |     |     |     |  |
|---|---------------------------|----------------|---------------------------|----------|--------|-----|-----|-----|--|
| CHANGED ON ISSUE                                | IF OFFICE RECORDS SPECIFY | DO NOT SPECIFY | THIS OPTION WAS FURNISHED | SEE NOTE | RATING |     |     |     |  |
|   |                           |                |                           |          | STD    | A&M | M D | SPL |  |
| 15  |                           | ZK WRG         | ZJ WRG                    |          | ZK     |     | ZJ  |     |  |
| 16  |                           | ZM WRG         | ZL WRG                    |          | ZM     | ZL  |     |     |  |
| 21  |                           |                |                           |          |        |     |     | K   |  |
| 21  |                           | ZN APP & WRG   | NONE                      |          | ZN     |     |     |     |  |
| 25  |                           | "ZT" APP       | "ZS" WRG & APP            |          | ZT     |     | ZS  |     |  |
| 26  |                           | "ZV" APP       | "ZU" WRG & APP            |          | ZV     |     | ZU  |     |  |
| 26  |                           | "ZW" APP       | "ZN" WRG & APP OR NONE    |          | ZW     |     | ZN  |     |  |

| SHEET LOCATION OF FIG. AND OPT. |                  |     |                  |     |                  |
|---------------------------------|------------------|-----|------------------|-----|------------------|
| FIG                             | APPEARS ON SHEET | OPT | APPEARS ON SHEET | OPT | APPEARS ON SHEET |
| 3                               | B1               | J   | B1               | ZW  | B1               |
|                                 |                  | K   | B1               |     |                  |
|                                 |                  | T   | B1               |     |                  |
|                                 |                  | V   | B1               |     |                  |
|                                 |                  | ZJ  | B1               |     |                  |
|                                 |                  | ZK  | B1               |     |                  |
|                                 |                  | ZL  | B1               |     |                  |
|                                 |                  | ZM  | B1               |     |                  |
|                                 |                  | ZN  | B1               |     |                  |
|                                 |                  | ZR  | B1               |     |                  |
|                                 |                  | ZS  | B1               |     |                  |
|                                 |                  | ZT  | B1               |     |                  |
|                                 |                  | ZU  | B1               |     |                  |
|                                 |                  | ZV  | B1               |     |                  |

| SD-ED DWG CROSS REFERENCE TABLE   |             |         |     |             |     |         |
|---|-------------|---------|-----|-------------|-----|---------|
| SCHEMATIC FIGURES AND OPTIONS NOT SHOWN BELOW AGREE WITH LIKE DESIGNATED WIRING DIAGRAM FIGURES AND OPTIONS. LOCALLY ASSIGNED WIRING DIAGRAM FIGURES AND OPTIONS (PREFIXED WITH LETTER "H") AND NOT LISTED BELOW HAVE NO SCHEMATIC EQUIVALENT. ITEMS IN PARENTHESES ( ) ARE FOR INFORMATION ONLY. |             |         |     |             |     |         |
| LINE  | SD-30976-01 |         |     | ED-30976-31 |     | REMARKS |
|   | FIG         | OPTION  | APP | FIG         | WRG |         |
| 1   | 3           | A, B, E |     | 3           |     |         |
| 5   |             |         |     |             |     |         |
| 10  |             |         |     |             |     |         |
| 15  |             |         |     |             |     |         |

| CKT   | N17 | R22 | AA25 |
|---|-----|-----|------|
| EQPT  | H17 | K22 | S25  |
| ORIGINAL ISSUE 2-28-52  |     |     |      |
| IN TABLE A GRP 5 ADDED I.S.L. CHGD. ACCORD. GRPS W3, W4, RATING WAS STD. IN FIG. 3 "ZL" WRG WAS NOT DESIG. "ZM" WRG ADDED. NOTE 53 (B) & 59 ADDED. RATING OF DWG. READ "STANDARD 350A ONLY FOR 360A". NOTE 55 WAS "STD." 1-10-58 NDD 32310-9K CL:DD   |     |     |      |
| REDRAWN DUE TO LACK OF SPACE. NOTE 57 RMVD & READ "SPEC 'ZK' WRG ON ALL JOBS USING ISSUE 18 OR LATER OF THIS DWG." NOTE 57 READ NOTE 59. 1-27-62 CL:DD  |     |     |      |
| ON SHIT B1, LOC. 06 PCNG 9 "R" 11 LEAD READ "R" 17. LOC. 17 LEADS FROM TERMS 1, 2, 3, 4 ADDED 9-25-62 CL:DD   |     |     |      |
| SH B1 AT LOC. R LEAD FROM TERM 11 WAS 5-W LEAD FROM TERM 5 0-W LEAD FROM TERM 9 WAS R & DESIG "1" AT SW1. 4-11-63 CL:DD   |     |     |      |
| SH C1 NOTE (R) (M) ADDED. 12-27-63 CL:DD  |     |     |      |
| IN TABLE A GRPS 4, 5, W3 & W4 RATED MFR DISC GRPS 6 & 7 ADDED IN S.L. LINE 24 ADDED ASSOC CHGS MADE ON SH B1 DWG RATING WAS STD. 10-29-64 CL:DD   |     |     |      |
| SH B1, FIG. 3, RED LEAD DESIG "ZN" FROM C NET (F) TO 11 PLUG RMV. REF TO "HA" OPTION RMV FROM RED LEAD BETWEEN C NET (C) & 7(C). 2-1-65 CL:DD   |     |     |      |
| SH A2 TBL A GRP A ADDED & RATED MFR DISC. NOTES 58 & 59 ADDED. SH C1 SK. B 179 A NET. & P. 25318 RMV SCREW INFO. ADDED. SK. D A. 160882 RMV SCREW INFO & NOTE 13 ADDED. 11-25-66 CL:DD  |     |     |      |
| SH INDEX & ISSUE TABLE CHANGED. 8-21-68 CL:DD   |     |     |      |
| TABLE A, GR 9 & B ZU WRG & APP WAS NOT DESIG. 1-23-79 CL:AD   |     |     |      |
| SH A2, IN TBL A, GR 6 & 7 RATING WAS "A & M ONLY" & "STD" RESP GR 8 & 9 ADDED. IN GR 2 COL A, REF TO 67 "8" 9" ADDED. IN NOTE 55 & 56, REF TO "6" & "7" RESP LINED OUT & REF TO GR "8" & "9" RESP ADDED. IN NOTE 57, REF TO GR "6" & "8" "21" LINED OUT & REF TO GR "9" & "18" "25" ADDED. SH B1 "25" WRG & APP WAS NOT DESIG. "ZP" & "ZT" APP ADDED. SH C1, IN S.L. LINES 9 & 10 ADDED. IN LINES 1 TO 8, 12, 14, 16, 17, 23 & 24 COL 14 "8, 9" ADDED. NOTE 5 ADDED. NDD-30976-3108-1 8-25-71 CL:DD |     |     |      |
| SH A2, IN TBL A, GR B ADDED. SH B1 "ZU" WRG & APP WAS NOT DESIG. "ZV" & "ZW" APP ADDED. SH C1, IN S.L. LINES 25 TO 29 ADDED. SK. D RATING WAS "STD." NDD-30976-3106-2 8-1-72 CL:DD  |     |     |      |

| TABLE A, GR 9 & B ZU WRG & APP WAS NOT DESIG. | CL AD |
|---|-------|
| R9B REP                                       | 27    |

**NOTICE**  
NOT FOR USE OR DISCLOSURE OUTSIDE THE BELL SYSTEM EXCEPT UNDER WRITTEN AGREEMENT

| 25  |                                |             |               |  |        |     |       |       |         |
|---|--------------------------------|-------------|---------------|--|--------|-----|-------|-------|---------|
| 24  |                                |             |               |  |        |     |       |       |         |
| 23  |                                |             |               |  |        |     |       |       |         |
| 22  |                                |             |               |  |        |     |       |       |         |
| 21  | DA SEL                         | SD-30976-01 | ED-30976-31   | AS COVERED IN TABLE "A" FOR GRPS SPEC IN THE ORDER |        |     |       |       |         |
| LINE  | NAME                           | SCHEMATIC   | DWG NUMBER    | FIG  | OPT    | WRG | WIRED | NOTES | REMARKS |
| COL   | J                              | K           | L             | M  | N      | P   | R     | S     |         |
| CIRCUITS  |                                |             |               |  |        |     |       |       |         |
| SURFACE WIRING PROVIDED BY THE SHOP                       |                                |             |               |  |        |     |       |       |         |
| 4   |                                |             |               | 14   |        |     |       |       |         |
| 3   |                                |             |               | 13   |        |     |       |       |         |
| 2   | METHOD OF DRESSING & ATTACHING |             | ED-30278-01   | 12   |        |     |       |       |         |
| 1   | SURFACE WRG RUNNING LIST       |             | =SWED30976-31 | 11   |        |     |       |       |         |
| LINE  | NAME                           | NUMBER      | LINE          | NAME   | NUMBER |     |       |       |         |
| COL   | T                              | U           | COL           | T  | U      |     |       |       |         |
| LIST OF ASSOCIATED DRAWINGS                               |                                |             |               |  |        |     |       |       |         |
| DRAWINGS DESIGNATED WILL NOT BE REQUIRED BY THE INSTALLER |                                |             |               |  |        |     |       |       |         |

STEP BY STEP SYSTEMS 4D99  
3 OR 4 WIRE SELECTOR  
NO. 1, 350A, 355A, 356A OR 360A  
ARRANGED FOR PC ON CUT THRU, TO ABSORB DIGITS ONCE ONLY AND/OR REPEATEDLY, AND TO RETURN OVERFLOW SIGNAL ON SPECIFIED LEVELS  
NO. 1 OR 350A  
ARRANGED FOR USE AS 1ST SEL FOR 2 PARTY MR. SERVICE  
NO. 355A, 356A OR 360A OFF  
ARRANGED FOR TIMED RELEASE ON PERMANENT SIGNAL

STANDARD A & M ONLY FOR 350A, 356A & 360A

**ED-30976-31**

4 SHEETS SHEET A1

WESTERN ELECTRIC COMPANY, INC. 65 PRINTED IN U.S.A.

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TABLE A- DESCRIPTION OF GROUPS

| COL | A  | B  | C          | D  | E                             |     |                   | F   |     | G   |                | H |
|-----|--|--|------------|----|-------------------------------|-----|-------------------|-----|-----|-----|----------------|---|
|     |  |  |            |    | CTK                           | FIG | WRG               | APP | WRG | APP |                |   |
|     | EQUIPMENT  | RATING OR AFTER DATE   | GRP        | NO | CIRCUITS AND FIGURES EQUIPPED |     |                   |     |     |     |                |   |
|     |  |  |            |    | ED-30976-31                   |     |                   |     |     |     |                |   |
|     | ASSEMBLY & WRG FOR ONE DIGIT ABSORBING SEL, ADJUSTABLE TO ABSORB DIGITS ONCE OR REPEATEDLY AND BLOCK SERVICE ON SPEC'D LEVELS ARRANGED FOR PEG COUNT ON CUT THRU AND   | ARRANGED FOR BUSY TONE SIG, 3-WIRE OPERATION (NO. 1, 350A, 350A, 355A & 356A OFFS) AND FOR ADDITION OF EXTERNALLY MTD EQUIP FOR TIMED RLS ON PERM SIG (355A & 356A OFFS) (SEE NOTE 54 & 56)                                  | MFR DISC   | 4  | 1                             | 3   | J, V, ZJ, ZL      |     |     |     |                |   |
|     |  | ARRANGED FOR BUSY TONE AND FLASH 3-WIRE OPERATION (NO. 1, 350A & 355A OFFS) AND TIMED RELEASE ON PERM SIG (355A OFF) (SEE NOTE 54)   | MFR DISC   | 5  | 1                             | 3   | V, K, ZK, ZH      |     |     |     |                |   |
|     |  | ARRANGED FOR BUSY TONE SIG, 3 WIRE OPERATION (NO. 1, 350A, 355A, 356A & 360A OFFS) AND FOR ADDITION OF EXTERNALLY MTD EQUIP FOR TIMED RLS ON PERM SIG (355A & 356A OFF) (SEE NOTE 54, 56)                                    | MFR DISC   | 6  |                               | 3   | J, V, ZK, ZL, ZN  |     |     |     | ZN             |   |
|     |  | ARRANGED FOR BUSY TONE SIG, 3 WIRE OPERATION (NO. 1, 350A & 355A OFF) AND TIMED RELEASE ON PERM SIG (355A OFF) (SEE NOTE 54)   | MFR DISC   | 7  |                               | 3   | V, ZK, ZM, ZN     |     |     |     | ZN             |   |
|     |  | ARRANGED FOR BUSY TONE SIGNAL, 3-WIRE OPERATION (NO. 1, 350A, 355A & 356A OFFICES) AND FOR THE ADDITION OF EXTERNALLY MOUNTED EQUIPMENT FOR TIMED RELEASE ON PERMANENT SIGNALS (NO. 355A & 356A OFFICES) (SEE NOTES 54 & 56) | A & M ONLY | 8  | 1                             | 3   | J, V, ZK, ZL, ZN  |     |     |     | ZN, ZR, ZT     |   |
|     |  | ARRANGED FOR BUSY TONE SIGNAL, 3-WIRE OPERATION (NO. 1, 350A & 355A OFFICES) AND TIMED RELEASE ON PERMANENT SIGNALS (NO. 355A OFFICE) (SEE NOTE 54)  |            | 9  | 1                             | 3   | V, ZK, ZM, ZN, ZU |     |     |     | ZN, ZR, ZT, ZU |   |
|     | WIRING AND EQUIP REQ'D IN ADD'N TO   | GRP 4, 5, 6, 7, 8 OR 9   |            | 2  | 1                             | (3) |                   |     |     |     | T              |   |
|     | EQUIP REQ'D IN ADD. TO GR 8 OR 9 ON ALL JOBS USING ISSUE 26 OR LATER OF THIS DWG (PROVIDES PT TYPE CONTACT PROTECTION NETWORKS IN PLACE OF POTTED STRAP TYPE NETWORKS) |  |            | B  | 1                             | (3) |                   |     |     |     | ZV, ZW         |   |
|     |  |  |            |    |                               | (3) | ZN, ZU            |     |     |     | ZN, ZU         |   |
|     | WIRING REQ'D IN ADD'N TO   | GRP 4  |            |    | 1                             | (3) | K                 |     |     |     |                |   |
|     |  | WHEN BUSY FLASH ON CALLS FROM OPERATORS IS REQ'D IN PLACE OF TIMED RELEASE ON PERM SIGNAL (SEE NOTE 54)  | MFR DISC   | WA | 1                             | (3) | J                 |     |     |     |                |   |
|     |  | ON ALL JOBS USING ISSUE 45 OR LATER OF THIS DRAWING  | MFR DISC   | WB | 1                             | (3) | ZK                |     |     |     |                |   |
|     |  |  |            |    | 1                             | (3) | ZJ                |     |     |     |                |   |
|     | WRG & EQUIP REQ'D IN ADD'N TO GRP 4 OR 5 WHEN CONTACT PROTECTION IS REQ'D FOR CONTACTS 4 & 5 OF RELAY (B) (SEE NOTE 58 & 59)   |  |            | A  | 1                             | (3) | ZN                |     |     |     | ZN             |   |

ENGINEERING NOTES

- SPECIFY GRPS, FIGS & OPTS IN ACCORDANCE WITH TABLE A.
- CONNECTING DRAWING:  
 BANK WIRING T-32123-11  
 BANK WIRING (356A) T-32123-12  
 BANK WIRING (360A) 3W T-616835  
 BANK WIRING (360A) 4W T-616860  
 JACK WIRING (10 CAP) T-532052 T-532484  
 JACK WIRING (20 CAP) T-532056 T-532486  
 JACK WIRING (360A) T-616861  
 JACK WIRING (356A) T-532222

53. ADJUST NORMAL POST SPRING TO OPERATE AS FOLLOWS:

| ON LEVELS WHICH ARE  | NPS ADJ TO OPERATE |
|--|--------------------|
| ARRANGED FOR REPEATED ABSORPTION (UNLESS "ONCE ONLY" ABSORPTION HAS PREVIOUSLY OCCURRED) | L                  |
| ARRANGED FOR BLOCKING SERVICE (UNLESS "ONCE ONLY" ABSORPTION HAS PREVIOUSLY OCCURRED)    | R                  |
| ARRANGED TO ABSORB ONCE ONLY   | L & R              |

54. PROVIDE FEATURE OR OPTIONS AS SHOWN IN THE FOLLOWING TABLE:

| NO. 1, 350A, 360A OR 355A | SEL                             | FEATURE OR OPTION                            | PROVIDE |     |       |
|---------------------------|---------------------------------|--|---------|-----|-------|
|                           |                                 |  | FIG     | APP | WRG   |
|                           | 3 WIRE                          |  |         |     |       |
|                           | 4 WIRE                          |  | 3       |     |       |
|                           | BUSY FLASH ONLY (MD)            |  |         |     | X     |
| 355A & 356A               | TIMED RLSE ON PERM SIG          | ASSOC RELAY NOT MTD ON LF SH UNIT (B&H ONLY) |         |     | J, ZL |
| 355A                      | ASSOC RELAY MTD ON LF SH UNIT   |  |         |     | J, ZL |
|                           | BUSY FLASH & BUSY TONE (MD)     |  |         |     | K     |
|                           | LOCAL SEL                       |  | 3       | T   | J     |
| 356A                      | OPRS INC SEL                    |  | 3       | T   | K     |
|                           | INC SEL CONN TO INTERLOCAL TRKS |  | 3       | V   |       |

(A) IN 355A OFF, THIS SEL MAY BE USED, WITHOUT THE TIMED RELEASE FEATURE OR THE BUSY FLASH FEATURE BY OMITTING OUTSIDE OF SWITCH CONNECTIONS FOR THESE FEATURES.  
 (B) IN NO. 1 & 350A OFF, THIS SEL MAY BE USED, WITHOUT THE BUSY FLASH FEATURE BY OMITTING OUTSIDE OF SWITCH CONNECTIONS FOR THIS FEATURE.

(A & M ONLY) THE TIMED RLSE RELS ASSOCIATED WITH GRP 4-6-8 ARE PART OF THE SHELF EQPT IN 355A OFFICES ONLY.

56. WHEN SW UNITS PER GRP 4 OR 5 OR 6 OR 7 OR 9 ARE ADDED AS OPERS INC SELECTORS ON EXISTING SHELVES WIRED WITH BUSY FLASH LEAD CONN TO SHELF JK TERMS 14 (EQPT WITH UNITS PER SD-30976-01 FIG 1) THE LEAD CONN TO TERM 14 SHALL BE DISCONNECTED FROM TERM 14 AT THE POS OF THE ADDED SELS AND CONNECTED TO TERMS 7 INSTEAD. BUSY TONE OR GRD, AS REQ'D SHALL BE CONN TO TERMS 14 AT THESE POS. (REF NOTE 207 ON SD-30976-012).

57. SPECIFY G-488 ON JOBS USING ISS 46-2125 OR LATER ONLY FOR 355A & 356A OFFICES WHEN TIMED RLSE ON PERM SIG IS REQ'D AND THE RELS ASSOC WITH THIS FEATURE IS NOT TO BE MTD ON LF SHELF UNIT.

58. WHEN EXISTING SWITCH UNITS PER G-4 OR G-5 REQUIRE MODIFICATION TO PROVIDE CONTACT PROTECTION TO REDUCE THE SURGE EFFECT OF THE (F) RELAY WINDING UPON CONTACTS 4 AND 5 OF THE (B) RELAY, SPECIFY "ZN" WRG & APP AND FURNISH THE FOLLOWING FOR EACH SWITCH UNIT SO MODIFIED:  
 (A) 179A NETWORK  
 (B) 2P-253118 F.H.M. SCR .138-32X1 5/8  
 (C) 2P-160882 RHM SCR .138-32X1 1/2  
 (D) 1 FOOT P-46B069 BLUE 24 BW WIRE  
 (E) 1 FOOT P-46B059 RED 24 BW WIRE

59. GROUP A IS FOR RECORD PURPOSE ONLY AND SHALL NOT BE ORDERED.

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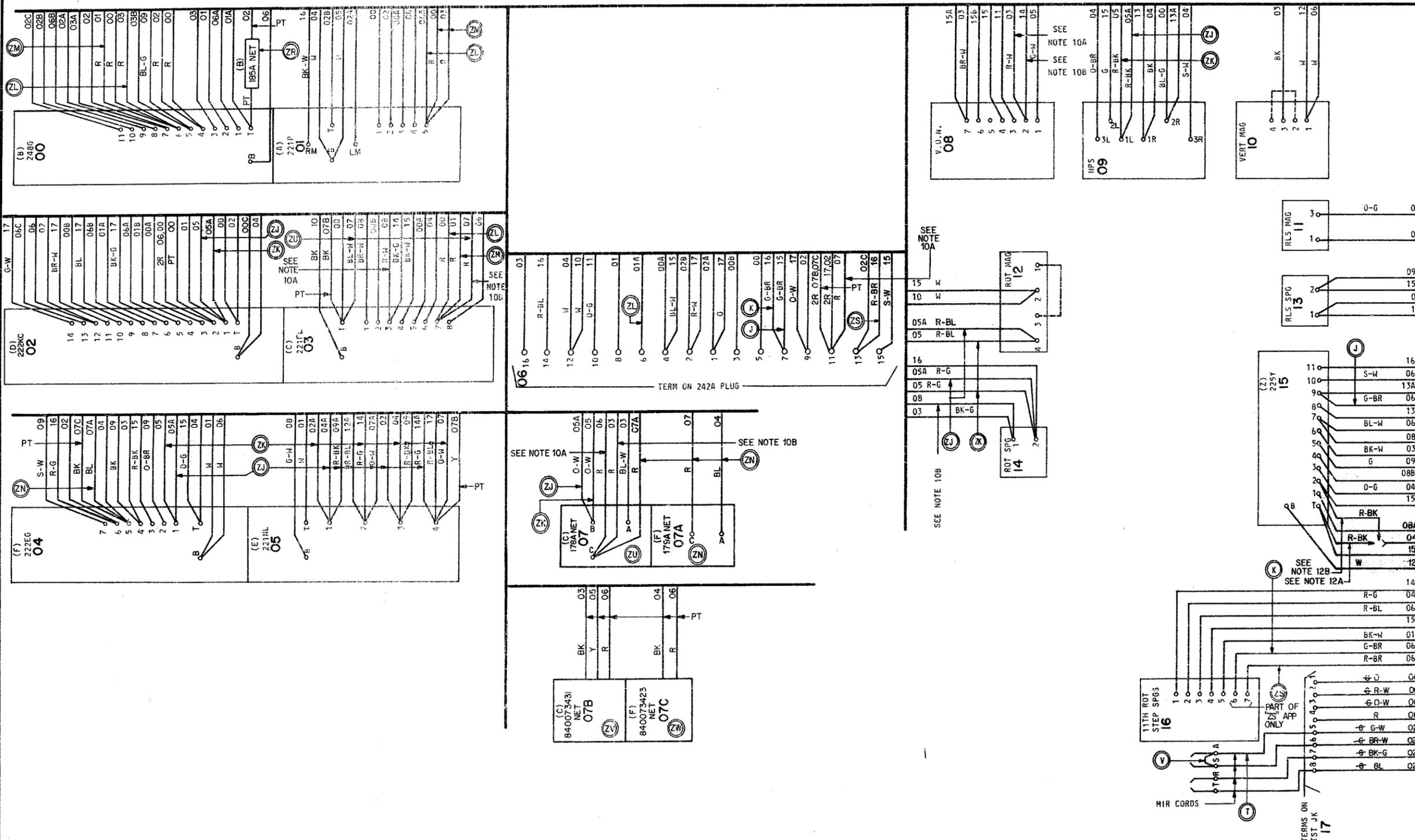
ISSUE  
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|                                |                                  |                 |
|--------------------------------|----------------------------------|-----------------|
| ED-30976-31<br>D.A. SEL CKT    | ED-30976-31<br>PRINTED IN U.S.A. | SHEET<br>A2     |
| WESTERN ELECTRIC COMPANY, INC. |                                  | DWG. SIZE<br>6S |

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FIG. 3

|       |    |
|-------|----|
| DWG   | 17 |
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|       | 19 |
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|       | 21 |
|       | 22 |
|       | 23 |

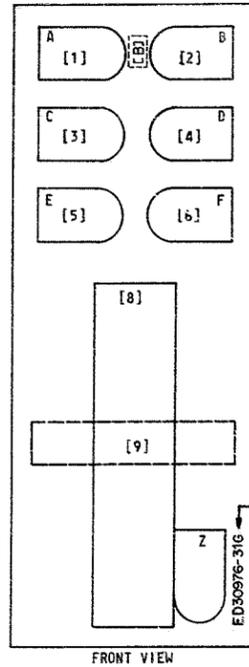


APP WIRED ON FRONT OF MTG PLT  
 ALL UNCODED APPARATUS PART OF 197ELU (ZS) OR 197JU (ZT) SWITCH

|                                |             |
|--------------------------------|-------------|
| ED-30976-31                    | ISSUE 26    |
| D.A. SEL CKT                   | SHEET 81    |
| ED-30976-31                    | DWG SIZE 6S |
| WESTERN ELECTRIC COMPANY, INC. |             |

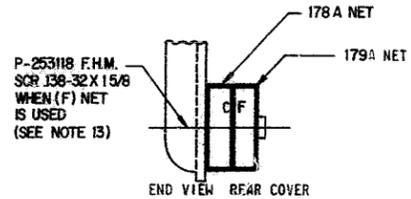
STOCKLIST

| W          | X            | Y         | Z               | AA         | AB   | COL |
|------------|--------------|-----------|-----------------|------------|------|-----|
| GRP        | QUAN PER GRP | CODE      | DESCRIPTION     | NOTE       | LINE |     |
| 45,6,7,8,9 | 1            | 985D      | MTG PLT E/W     | SK.A       |      | 1   |
| 45,6,7,8,9 | 1            | 49A       | COVER BRKT      |            |      |     |
| 45,6,7,8,9 | 1            | 221P      | REL             | POS 1      |      |     |
| 45,6,7,8,9 | 1            | 248G      | REL             | 2          |      |     |
| 45,6,7,8,9 | 1            | 221FL     | REL             | 3          |      | 5   |
| 45,6,7,8,9 | 1            | 222KC     | REL             | 4          |      |     |
| 45,6,7,8,9 | 1            | 221NL     | REL             | 5          |      |     |
| 45,6,7,8,9 | 1            | 222EG     | REL             | 6          |      |     |
| 8,9        | 1            | 185A      | NETWORK         | [B] 2R     |      |     |
| 8,9        | 1            | 197JU     | SWITCH          | E/W 8      |      | 10  |
| 4,5,6,7    | 1            | 197EU     | SWITCH E/W      | 8          |      |     |
| 45,6,7,8,9 | 1            | 225Y      | REL             |            |      |     |
| 45,6,7,8,9 | 1            | 242A      | FLUG            | 9R         |      |     |
| 45,6,7,8,9 | 1            | M1R       | CORD 4" LG      |            |      | 15  |
| 45,6,7,8,9 | 2            | M1R       | CORDS 4 3/4" LG |            |      |     |
| 2          | 1            | M1R       | CORD 4" LG      |            |      |     |
| 45,6,7,8,9 | 1            | 178A      | NETWORK         | -SK-B SK-D |      |     |
| 6,7,8,9    | 1            | 179A      | NETWORK         |            |      |     |
| B          | OMIT 1       | 49A       | BRACKET         |            |      | 25  |
| B          | OMIT 1       | 178A      | NETWORK         |            |      |     |
| B          | OMIT 1       | 179A      | NETWORK         |            |      |     |
| B          | 1            | 840073431 | NETWORK [C]     | POS 5R     |      |     |
| B          | 1            | 840073423 | NETWORK [F]     | 6R         |      |     |
|            |              |           |                 |            |      | 30  |
|            |              |           |                 |            |      | 35  |

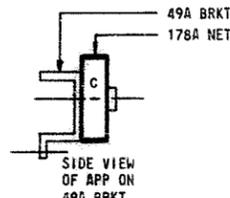


SK. A

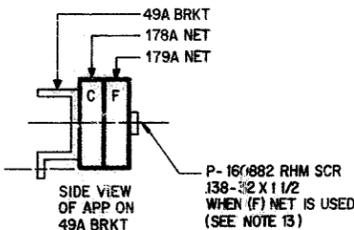
SEE NOTE 4



SK. B (MFR. DISC)



SK. C (MFR DISC)



SK. D (MFR DISC)

MFR DISC

MANUFACTURING NOTES

| SHOP | INSTR | MANUFACTURING NOTES  |
|------|-------|--|
|      |       | 1. (A) WIRES NOT OTHERWISE SPECIFIED TO BE 24G-24BW<br>(B) LEADS NOT OTHERWISE COLORED TO BE GREEN   |
| X    |       | 2. DESIGNATIONS ON TERMS OF APPARATUS ARE FOR WIRING INFORMATION ONLY.   |
| X    |       | 3. EQUIP CKTS PER TABLE A IN ACCORDANCE WITH THE GROUPS SPECIFIED.   |
| X    |       | 4. THE GROUP NUMBERS OF THE SWITCH ORDERED SHALL BE STAMPED ON THE APP MTG PLATE.  |
| X    |       | 5. PT- LEADS PART OF COMPONENT.  |
| X    |       | 6. ADJUST THE NORMAL POST SPRINGS TO OPERATE ONLY ON THE LEVELS SPEC IN THE JOB ORDER.   |
| X    |       | 7. NUMBERS IN [ ] DENOTE MOUNTING PLATE POSITION NUMBERS AND SHALL NOT BE STAMPED.   |
| X    |       | 8. WHEN LOCAL CABLES ARE USED FOR LEADS PASSING THROUGH MTG PLT, THE ASSOC LOCAL CABLE DWG IS LC-223-669 G1 & G2.  |
| X    |       | 9. SWITCH UNITS PER G-4 ARE ARRANGED TO PERMIT READY CONVERSION, WHERE DESIRED BETWEEN "J" WIRING FOR TIMED RELEASE ON PERMANENT SIGNALS AND "K" WIRING FOR BUSY TIMED RELEASE ON PERMANENT SIGNALS AND "K" WIRING FOR BUSY FLASH TO OPERATORS, WIRING HAS BEEN ARRANGED TO PERMIT THIS CONVERSION BY TRANSFERRING A LEAD FROM SWITCH PLUG SPRING 7 BETWEEN TERMINALS OF THE (Z) RELAY AND THE ADJACENT 11TH ROTARY STEP SPRING ON SMS MANUFACTURED ON OR AFTER APPROX 6-4-56. |
| X    | X     | 10. (A) WIRING USED ON SWITCHES MFD ON OR BEFORE APPROX 8-3-53<br>(B) WIRING USED ON SWITCHES MFD AFTER APPROX 8-3-53  |
| X    | X     | 11. ALL PARTS TO BE ASSEMBLED FOR SHIPMENT.  |
| X    | X     | 12. (A) WRG ARRANGEMENT USED WHEN (Z) REL WDG TERMINALS ARE (1) SOLDERED TYPE OR (2) SOLDERLESS WRAP TYPE WITH SUFFICIENT WRAPPING SURFACE FOR TWO LEADS. (BEFORE ISS: 20 OF THIS DWG.)<br>(B) WRG ARRANGEMENT USED WHEN (Z) REL WDG TERMINALS ARE SOLDERLESS WRAP TYPE WITH WRAPPING SURFACE FOR ONLY ONE LEAD. (AFTER ISS: 20 OF THIS DWG.)  |
| X    |       | 13. WHEN EXISTING SWITCH UNITS PER G-4 OR G-5 ARE TO BE MODIFIED TO BE EQPD WITH (F) 179A NET, THE EXISTING F.H.M. (SK B) OR RHM (SK D) SCREW SHALL BE REPLACED BY THE LONGER SCREW OF THE SAME TYPE AND THE SCREW OF THE UNUSED TYPE SHALL BE DISCARDED.<br>G-A STAMPING SHALL BE ADDED TO SWITCH UNIT ED-CODE STAMPING.  |

SHEET  
ISSUE  
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② 26

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| ED-30976-31         | D. A. SEL. CKT | ED-30976-31                    | SHEET |
| PRINTED IN U. S. A. |                | WESTERN ELECTRIC COMPANY, INC. | C1    |
| DWG. SIZE<br>6S     |                |                                |       |