

**SHEET INDEX**

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| CAD 1,2,3,4,5,6   | 5         |
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**APPARATUS INDEX (CONT)**

| DESIG               | LOCATION |          |      |
|---------------------|----------|----------|------|
|                     | FS       | APP FIG. | EQPT |
| <b>SPEAKERS</b>     |          |          |      |
| SPK                 | 2D6      | 1        |      |
| <b>TRANSFORMERS</b> |          |          |      |
| RC1                 | 2B1      | 1        |      |
| T1                  | 2D5      | 1        |      |

**APPARATUS INDEX**

| EQPT LDC             | APP FIG. |        |
|----------------------|----------|--------|
|                      | NO.      | SH NO. |
| <b>CIRCUIT PACKS</b> |          |        |
| 213-28               | 1        | 3      |
| 213-30               | 1        | 3      |
| 213-32               | 1        | 3      |

| DESIG          | LOCATION          |             |      |
|----------------|-------------------|-------------|------|
|                | FS                | APP FIG.    | EQPT |
| <b>RELAYS</b>  |                   |             |      |
| DT<br>OR<br>TO | 2B5<br>2C5<br>2B5 | 1<br>1<br>1 |      |

| <b>KEYS</b>           |              |             |  |
|-----------------------|--------------|-------------|--|
| PWR OFF<br>RST<br>TST | SEE APP FIG. | 1<br>1<br>1 |  |

| <b>LAMPS</b>   |            |        |  |
|----------------|------------|--------|--|
| PWR OFF<br>TST | 2E5<br>2E6 | 1<br>1 |  |

| <b>POTENTIOMETERS</b> |            |        |  |
|-----------------------|------------|--------|--|
| TIME<br>VOL           | 2F2<br>2C3 | 1<br>1 |  |

| <b>RESISTORS</b> |     |   |  |
|------------------|-----|---|--|
| R1               | 2E1 | 1 |  |

**CIRCUIT NOTES (CONT):**

103. RECORD OF APP FIGURES, WIRING AND APPARATUS CHANGES

| CHANGED ON ISS | IF JOB RECORDS DO NOT SPECIFY | THIS OPTION WAS FURN | SEE NOTE | USE IN CIRCUIT |     |    |
|----------------|-------------------------------|----------------------|----------|----------------|-----|----|
|                |                               |                      |          | STD            | ASM | MD |
| 4B             | Y                             | NONE                 | 102      | Y              |     |    |
| 7D             | W OR V                        | W                    | 102      | V,W            |     |    |
| 10B            | T OR U                        | U                    | 102      | T,U            |     |    |

104. SCAN POINT ASSIGNMENT

| SUPERVISORY | DIRECTED |
|-------------|----------|
| 0.1         |          |

105. RUN ONLY CKT D LEADS FOR NO. 2/2B AND NO. 3 ESS.

**EQUIPMENT NOTES:**

201. THESE LEADS SHALL HAVE ENOUGH WIRE TO FORM A LOOP SO THAT THE KEY MAY BE REMOVED FROM THE FRONT OF THE BAY FOR MAINTENANCE.

202.

| LEAD DESIGNATION | COMBINED SERIES RESISTANCE LIMIT |
|------------------|----------------------------------|
| A,B              | LESS THAN 100 OHMS               |

203. THE CIRCUIT MAY BE PLACED ON EITHER THE LEFT OR RIGHT FOUR TERMINALS OF TWO ADJACENT HORIZONTAL ROWS OF AN IDF VERTICAL.
204. EACH CIRCUIT MAY BE PLACED ON EITHER THE LEFT OR RIGHT TWO (2) TERMINALS OF A HORIZONTAL ROW OF AN IDF VERTICAL.
205. SEE STATUS ASSEMBLING SYSTEM REMOTE CIRCUIT FOR EXPLANATION OF DESIGNATIONS TO BE USED WITHIN ( ) ( ). DESIGNATION "71" CORRESPONDS TO ANY ONE OF THE 1ST THRU 14TH STATUS BITS WITHIN A STATUS REPORT WORD. THESE ASSIGNMENTS (SI( ) ( ) 71, SI( ) ( ) -71G) SHALL BE MADE BY THE TELEPHONE COMPANY.
206. THIS EQUIPMENT SHALL BE SHIPPED WITH THOSE CIRCUIT PACKS USED DURING THE EQUIPMENT TEST AT THE TIME OF MANUFACTURE.
207. WHEN REQUIRED, THESE LEADS SHALL BE CONNECTED DIRECTLY TO THE (TG) RELAY. IN A NO. 1 ESS OFFICE THESE LEADS SHALL BE RUN TO THE MASTER CONTROL CENTER VIA A FRAME LOCAL CABLE. IN A NO. 1A ESS OFFICE THESE LEADS SHALL BE RUN TO T 5 (AG) ON THE TRUNK AND LINE TEST FRAME VIA FRAME LOCAL CABLE.

**INFORMATION NOTES:**

301. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS, VALUES PRECEDED BY THE SYMBOL + (PLUS) OR - (MINUS) ARE IN VOLTS.
302. FERROD SENSORS ASSOCIATED WITH THE CIRCUIT ARE IDENTIFIED FOR INFORMATION PURPOSES BY A NUMBER 0.1.

**SUPPORTING INFORMATION**

| CATEGORY                | NO.                  |
|-------------------------|----------------------|
| EQUIPMENT DESIGN REQ'T. | J1A042 (820-502-150) |
| EQUIPMENT DRAWINGS      | J1A0428P             |
| CIRCUIT PACK SCHEMATICS | SD-1A102-01          |

**OPTION INDEX**

| APP OR WRG | LOCATION                           |
|------------|------------------------------------|
| Z          | CAD 2, CAD 4, CAD 5, 2D1, 2E1, 2F0 |
| Y          | CAD 1, CAD 2, 2A6, 2D4             |
| X          | 2G6, 2H6                           |
| W          | CAD 1-6                            |
| V          | 2D4, 2B6                           |
| U          | 2B0, 2C0, 2E1, 2F6                 |
| T          | APP FIG. 1, SHEET 2, CAD 7, 10, 11 |

**CIRCUIT NOTES:**

101.

| DESIG                 | FUSE AMP | POTENTIAL            | ONE PER    |
|-----------------------|----------|----------------------|------------|
| DT                    | 3/4      | +24                  | APP FIG. 1 |
| <b>BATTERY SYMBOL</b> |          |                      |            |
|                       |          | +24                  |            |
|                       |          | <b>VOLTAGE RANGE</b> |            |
|                       |          | -20.75 TO +26.25     |            |

THE + 24 FUSE IS FURNISHED AS PART OF THE MISC CKT FOR NO. 1 ESS OFFICES AND PART OF THE T & LT CKT (SD-8A005-01) FOR NO. 1A ESS OFFICES.

102.

| FEATURE OR OPTION  | APP FIG. | PROVIDE    |             |
|--|----------|------------|-------------|
|  |          | APP OR WRG | QUANTITY    |
| DIAL TONE DELAY ALARM  |          | 2-WIRE     | 1 PER CKT   |
|  |          | 4-WIRE     | 2 1 PER CKT |
| THIS CKT ARRANGED TO BE RESET AND ALARM DISABLED FROM A REMOTE LOCATION. |          | Y          | 1 PER CKT   |
| WHEN OFFICE IS EQUIPPED WITH SWITCHING CONTROL CENTER (SCC)              |          | X          |             |
| WIRING REQUIRED WHEN USED WITH NO.1 OR 1A ESS.                           |          | W          |             |
| WIRING REQUIRED WHEN USED WITH NO.2, 2B OR NO.3 ESS.                     |          | V          |             |
| CIRCUIT USED IN ESS.   |          | NO         | U           |
|  |          | YES        | T           |

| DWG ISSUE | RECORD ISSUE | DATE ISSUED | CHKD | APP |
|-----------|--------------|-------------|------|-----|
| 1         | 1            | 4-23-68     | RAH  | RAH |
| 2AC       | 1            | 1-9-61      | PLB  | PLB |
| 3B        | 1            | 7-24-70     | JM   | JM  |
| 4B        | 1            | 9-19-73     | AS   | AS  |
| 5AC       | 2AC          | 12-11-74    | NCL  | NCL |
| 6D        | 2AC          | 11-15-75    | PAC  | PAC |
| 7D        | 2AC          | 1-2-80      | NCL  | NCL |
| 8D        | 2AC          | 4-18-80     | NCL  | NCL |
| 9D        | 2AC          | 4-8-81      | NCL  | NCL |
| 10B       | 3B           | 10-18-85    | NCL  | NCL |
| 11D       | 3B           | 4-24-85     | NCL  | NCL |

| FRAME SD | PROJECT                 | CONTROL |
|----------|-------------------------|---------|
|          | ESS NO 1/1A<br>ESS NO 3 | 1H      |

| ISSUE  |                           |
|--|---------------------------|
| 11D  |                           |
| SD-1A277-01  | 1799                      |
| ELECTRONIC SWITCHING SYSTEMS<br>COMMON<br>DIAL TONE DELAY ALARM<br>CIRCUIT | STANDARD                  |
| (2)<br>(DT DEL ALM)  | SD-1A277-01-1<br>7 SHEETS |



APP FIG. 1

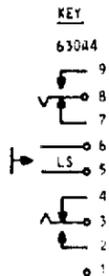
CIRCUIT PACK

| EQPT LOC     | 213-17 | 213-18 | 213-19 | 213-20 | 213-21 | 213-22 | 213-23 | 213-24 | 213-25 | 213-26 | 213-27 | 213-28 | 213-29 | 213-30 | 213-31 | 213-32 | EQPT LOC     |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------|
| DESIG        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | DESIG        |
| CODE         |        |        |        |        |        |        |        |        |        |        |        | A801   |        | A802   |        | A803   | CODE         |
| OPTION       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | OPTION       |
| ELEMENT LOC  | TERM.  | ELEMENT LOC  |
| TERM. FS LOC |        |        |        |        |        |        |        |        |        |        |        | 25-202 |        | 26-2F2 |        | 27-204 | TERM. FS LOC |

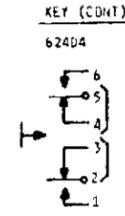
DRAWING  
ISSUE  
1  
2AC  
38

RELAY

| DESIG    | DT   | TQ       | OR   |
|----------|------|----------|------|
| CODE     | AK30 |          | AG32 |
| OPTION   |      |          |      |
| CONT ARR | LOC  | CONT ARR | LOC  |
| 12       |      | M        | 2F1  |
| 11       |      | EBM      | 2F5  |
| 10       |      | EBM      | 2B3  |
| 9        |      | EMB      | 2G5  |
| 8        |      | EMB      |      |
| 7        |      |          |      |
| 6        |      |          |      |
| 5        | EMB  | 2E4      |      |
| 4        | EMB  | 2F3      |      |
| 3        | EBM  | 2E2      |      |
| 2        | EBM  | 205      |      |
| 1        | M    | 2F2      |      |
| COIL     |      | 2B5      |      |



PWR OFF (RED) 2E5  
TST (AMBER) 2E6  
2G1 2C1



RST 2C6  
2B6

LAMP

THE FOLLOWING LAMPS ARE MOUNTED IN SIMILARLY DESIGNATED KEYS:  
DESIG LOC CODE  
PWR OFF 2E5 K2  
TST 2E6 K2

POTENTIOMETER

| DESIG | LOC | CODE               |
|-------|-----|--------------------|
| TIME  | 2F2 | KS-13790 L2.1      |
| VBL   | 2C3 | KS-13790 129.25 K1 |

RESISTOR

| DESIG | LOC | CODE            |
|-------|-----|-----------------|
| R1    | 2E1 | KS-16846 L1.620 |

SPEAKER

| DESIG | LOC | CODE |
|-------|-----|------|
| SPK   | 206 | 761A |

TRANSFORMER

| DESIG | LOC | CODE          |
|-------|-----|---------------|
| RC1   | 2B1 | 1200 REP COIL |
| T1    | 205 | 256 3N        |

CAPACITOR

| DESIG | LOC | CODE          |
|-------|-----|---------------|
| C1    | 2A1 | 535G8, T 1.09 |

SD-1A277-01-3

ISSUE  
11D

DIAL TONE DELAY ALARM

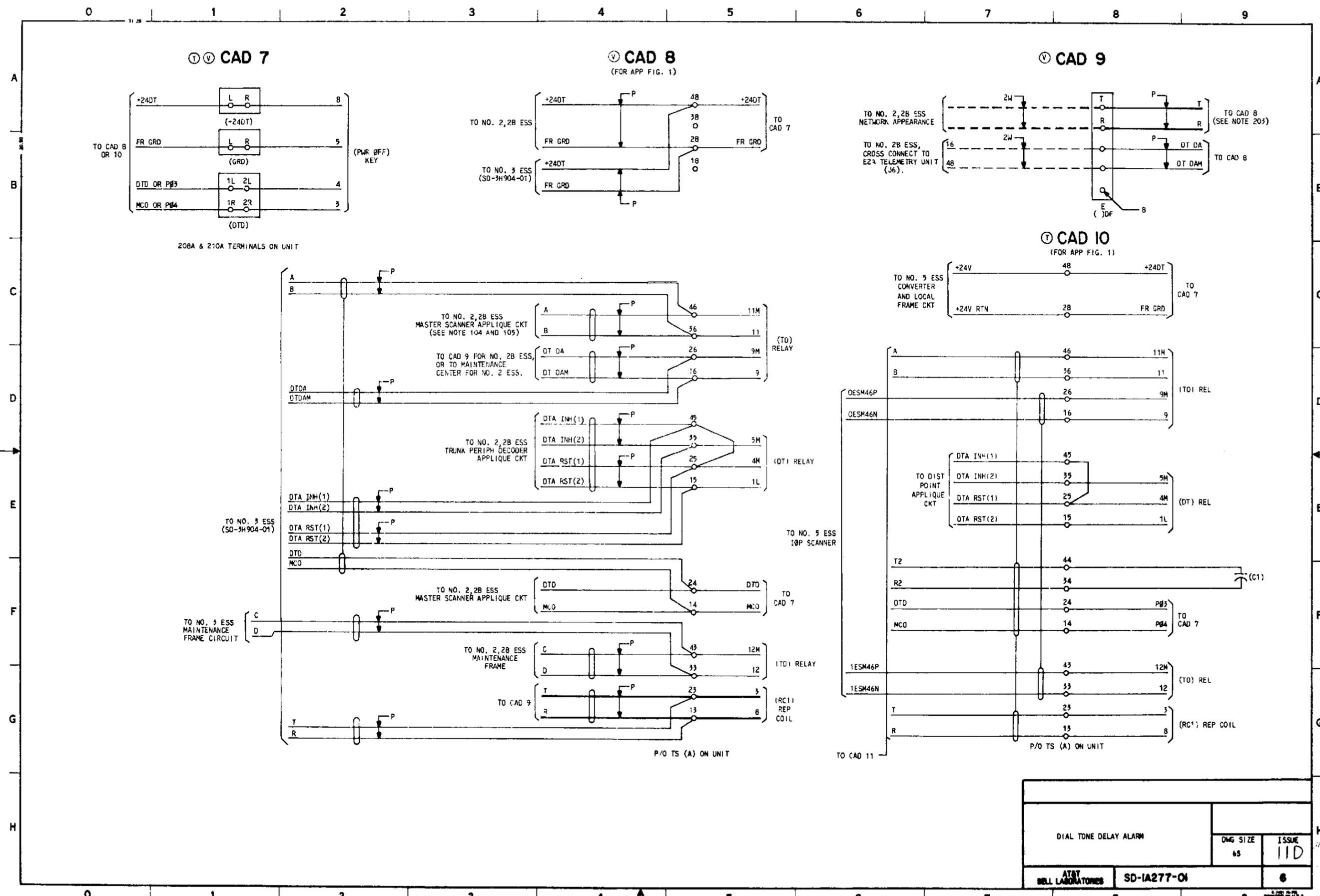
SD-1A277-01-3

AVAT  
BELL LABORATORIES

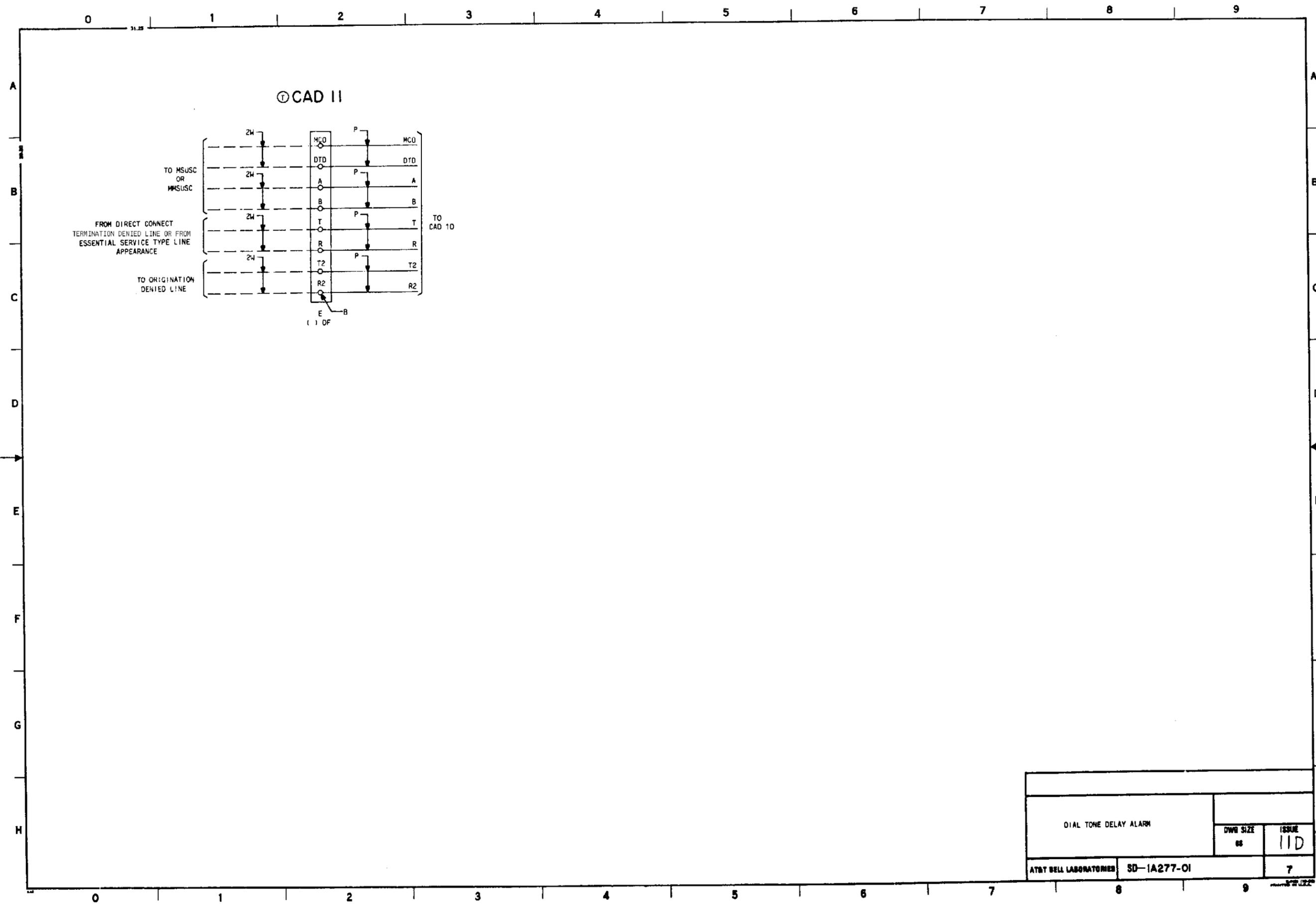
6S







|                           |  |             |       |
|---------------------------|--|-------------|-------|
| DIAL TONE DELAY ALARM     |  | OWG SIZE    | ISSUE |
|                           |  | 65          | 11D   |
| AT&T<br>BELL LABORATORIES |  | SD-1A277-01 | 6     |



|                        |             |          |       |
|------------------------|-------------|----------|-------|
| DIAL TONE DELAY ALARM  |             | DWR SIZE | ISSUE |
|                        |             | 68       | 11D   |
| AT&T BELL LABORATORIES | SD-1A277-01 | 7        |       |