

**TRAINING CENTER**

**B325 SCHEMATIC AND PARTS LOCATION**

**DRAWING PACKAGE**

**Printed: March 1979  
Reprinted: July 1981**

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**Lynch**  
**COMMUNICATION SYSTEMS INC.**

204 Edison Way, Reno, Nevada 89520 (702) 786-4020

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TRAINING CENTER

8325 SCHEMATIC AND PARTS LOCATION

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B325 SCHEMATIC AND PARTS LOCATION

DRAWING PACKAGE

CONTENTS

| DRAWING NUMBER | ISSUE | SHEET(S) | DRAWING TITLE   |
|----------------|-------|----------|---|
| 325AP01-01     | 6     | 3        | Schematic & Parts Location, Type 325AP01<br>Alarm and Power                         |
| 325AP01A-01    | 2     | 3        | Schematic & Parts Location, Type 325AP01A<br>Alarm and Power                        |
| 325BR01-01     | 3     | 2        | Schematic & Parts Location, Type 325BR01<br>BRO Channel Unit (Office), 2W, 900Ω     |
| 325BR51-01     | 1     | 2        | Schematic & Parts Location, Type 325BR51<br>BRS Channel Unit (Subscriber), 2W, 900Ω |
| 325CV01-01     | 2     | 3        | Schematic & Parts Location, Type 325CV01<br>Code Converter                          |
| 325DP01-01     | 3     | 2        | Schematic & Parts Location, Type 325DP01<br>Dial Pulse, Originating Unit            |
| 325DP02-01     | 3     | 2        | Schematic & Parts Location, Type 325DP02<br>Dial Pulse, Terminating Unit            |
| 325DP11-01     | 1     | 2        | Schematic & Parts Location, Type 325DP11<br>Dial Pulse, Originating Unit            |
| 325DP21A-01    | 1     | 2        | Schematic & Parts Location, Type 325DP21A<br>Dial Pulse, Originating Unit           |
| 325DP22-01     | 1     | 2        | Schematic & Parts Location, Type 325DP22<br>Dial Pulse, Terminating Unit            |
| 325EM01-01     | 4     | 2        | Schematic & Parts Location, Type 325EM01<br>600Ω, 4W, E & M Channel Unit            |
| 325EM03-01     | 6     | 2        | Schematic & Parts Location, Type 325EM03<br>900Ω, 2W, E & M Channel Unit            |
| 325EM05-01     | 3     | 3        | Schematic & Parts Location, 325E&M, 900Ω<br>2-Wire with 4-Wire Access Channel Unit  |
| 325EM13-01     | 1     | 2        | Schematic & Parts Location, Type 325EM13<br>900Ω, 2W, E & M Channel Unit            |
| 325ET01-01     | 1     | 2        | Schematic & Parts Location, Type 325ET01<br>Trunk 1W/OG, 900Ω, 2W                   |

B325 SCHEMATIC AND PARTS LOCATION

DRAWING PACKAGE

CONTENTS

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|----------------|-------|----------|---|
| 325AP01-01     | 6     | 3        | Schematic & Parts Location, Type 325AP01<br>Alarm and Power                         |
| 325AP01A-01    | 2     | 3        | Schematic & Parts Location, Type 325AP01A<br>Alarm and Power                        |
| 325BR01-01     | 3     | 2        | Schematic & Parts Location, Type 325BR01<br>BRO Channel Unit (Office), 2W, 900Ω     |
| 325BR51-01     | 1     | 2        | Schematic & Parts Location, Type 325BR51<br>BRS Channel Unit (Subscriber), 2W, 900Ω |
| 325CV01-01     | 2     | 3        | Schematic & Parts Location, Type 325CV01<br>Code Converter                          |
| 325DP01-01     | 3     | 2        | Schematic & Parts Location, Type 325DP01<br>Dial Pulse, Originating Unit            |
| 325DP02-01     | 3     | 2        | Schematic & Parts Location, Type 325DP02<br>Dial Pulse, Terminating Unit            |
| 325DP11-01     | 1     | 2        | Schematic & Parts Location, Type 325DP11<br>Dial Pulse, Originating Unit            |
| 325DP21A-01    | 1     | 2        | Schematic & Parts Location, Type 325DP21A<br>Dial Pulse, Originating Unit           |
| 325DP22-01     | 1     | 2        | Schematic & Parts Location, Type 325DP22<br>Dial Pulse, Terminating Unit            |
| 325EM01-01     | 4     | 2        | Schematic & Parts Location, Type 325EM01<br>600Ω, 4W, E & M Channel Unit            |
| 325EM03-01     | 6     | 2        | Schematic & Parts Location, Type 325EM03<br>900Ω, 2W, E & M Channel Unit            |
| 325EM05-01     | 3     | 3        | Schematic & Parts Location, 325E&M, 900Ω<br>2-Wire with 4-Wire Access Channel Unit  |
| 325EM13-01     | 1     | 2        | Schematic & Parts Location, Type 325EM13<br>900Ω, 2W, E & M Channel Unit            |
| 325ET01-01     | 1     | 2        | Schematic & Parts Location, Type 325ET01<br>Trunk 1W/OG, 900Ω, 2W                   |

TRAINING CENTER  
325 SCHEMATIC AND PARTS LOCATION  
DRAWING PACKAGE

LYNCH  
COMMUNICATION  
SYSTEMS INC.

**B325 SCHEMATIC AND PARTS LOCATION**

**DRAWING PACKAGE (Cont.)**

**CONTENTS**

| DRAWING NUMBER | ISSUE | SHEET(S) | DRAWING TITLE   |
|----------------|-------|----------|---|
| 325FX01-01     | 3     | 2        | Schematic & Parts Location, Type 325FX01<br>FXS Channel Unit (Subscriber), 2W, 900Ω             |
| 325FX02-01     | 3     | 2        | Schematic & Parts Location, Type 325FX02<br>FXO Channel Unit (Office), 2W, 900Ω                 |
| 325FX03-01     | —     | —        | To Be Supplied  |
| 325FX04-01     | —     | —        | To Be Supplied  |
| 325MX02-01     | 3     | 5        | Schematic & Parts Location, Type 325MX02<br>D4 Mode II Multiplexer                              |
| 325PR01-01     | 2     | 2        | Schematic & Parts Location, Type 325PR01<br>600Ω, 4 Wire PLR Channel Unit                       |
| 325PY01-01     | 1     | 2        | Schematic & Parts Location, Type 325PY01<br>Semi-postpay Channel Unit (Office), 2W, 900Ω        |
| 325PY51-01     | 1     | 2        | Schematic & Parts Location, Type 325PY51<br>Semi-postpay Channel Unit (Subscriber),<br>2W, 900Ω |
| 325RC01B-01    | 1     | 2        | Schematic & Parts Location, Type 325RC01B<br>RCV Converter                                      |
| 325TA01-01     | 1     | 2        | Schematic & Parts Location, Type 325TA01<br>Test and Alignment Panel                            |
| 325TA03-01     | 4     | 2        | Schematic & Parts Location, Type 325TA03<br>Test and Alignment Unit                             |
| 325TC01B-01    | 1     | 4        | Schematic & Parts Location, Type 325TC01B<br>Transmit Converter                                 |
| 325TK01-01     | 2     | 1        | Schematic & Parts Location, Type 325TK01<br>Test Kit  |
| 325VF01-01     | 2     | 2        | Schematic & Parts Location, Type 325VF01<br>600Ω, 4 Wire, No Sig. Channel Unit                  |

NOTE: Drawings updated July, 1981

TRAINING CENTER  
 B325 SCHEMATIC AND PARTS LOCATION  
 DRAWING PACKAGE

LYNCH  
 COMMUNICATION  
 SYSTEMS INC.

B325 SCHEMATIC AND PARTS LOCATION

DRAWING PACKAGE (Cont.)

CONTENTS

| DRAWING NUMBER | ISSUE | SHEET(S) | DRAWING TITLE   |
|----------------|-------|----------|---|
| 325FX01-01     | 3     | 1        | Schematic & Parts Location, Type 325FX01<br>FXS Channel Unit (Subscriber), 2W, 900Ω             |
| 325FX02-01     | 3     | 1        | Schematic & Parts Location, Type 325FX02<br>FXO Channel Unit (Office), 2W, 900Ω                 |
| 325FX03-01     | -     | -        | To Be Supplied  |
| 325FX04-01     | -     | -        | To Be Supplied  |
| 325MX02-01     | 3     | 1        | Schematic & Parts Location, Type 325MX02<br>24 Mode II Multiplexer                              |
| 325PR01-01     | 2     | 1        | Schematic & Parts Location, Type 325PR01<br>555Ω, 4 Wire PLR Channel Unit                       |
| 325PY01-01     | 1     | 1        | Schematic & Parts Location, Type 325PY01<br>Semi-postpay Channel Unit (Office), 2W, 900Ω        |
| 325PY51-01     | 1     | 1        | Schematic & Parts Location, Type 325PY51<br>Semi-postpay Channel Unit (Subscriber),<br>2W, 900Ω |
| 325RC01B-01    | 1     | 1        | Schematic & Parts Location, Type 325RC01B<br>RCV Converter                                      |
| 325TA01-01     | 1     | 1        | Schematic & Parts Location, Type 325TA01<br>Test and Alignment Panel                            |
| 325TA03-01     | 1     | 1        | Schematic & Parts Location, Type 325TA03<br>Test and Alignment Unit                             |
| 325TC01B-01    | 1     | 1        | Schematic & Parts Location, Type 325TC01B<br>Transmit Converter                                 |
| 325TK01-01     | 1     | 1        | Schematic & Parts Location, Type 325TK01<br>Test Kit  |
| 325VF01-01     | 1     | 1        | Schematic & Parts Location, Type 325VF01<br>555Ω, 4 Wire, No Sig. Channel Unit                  |

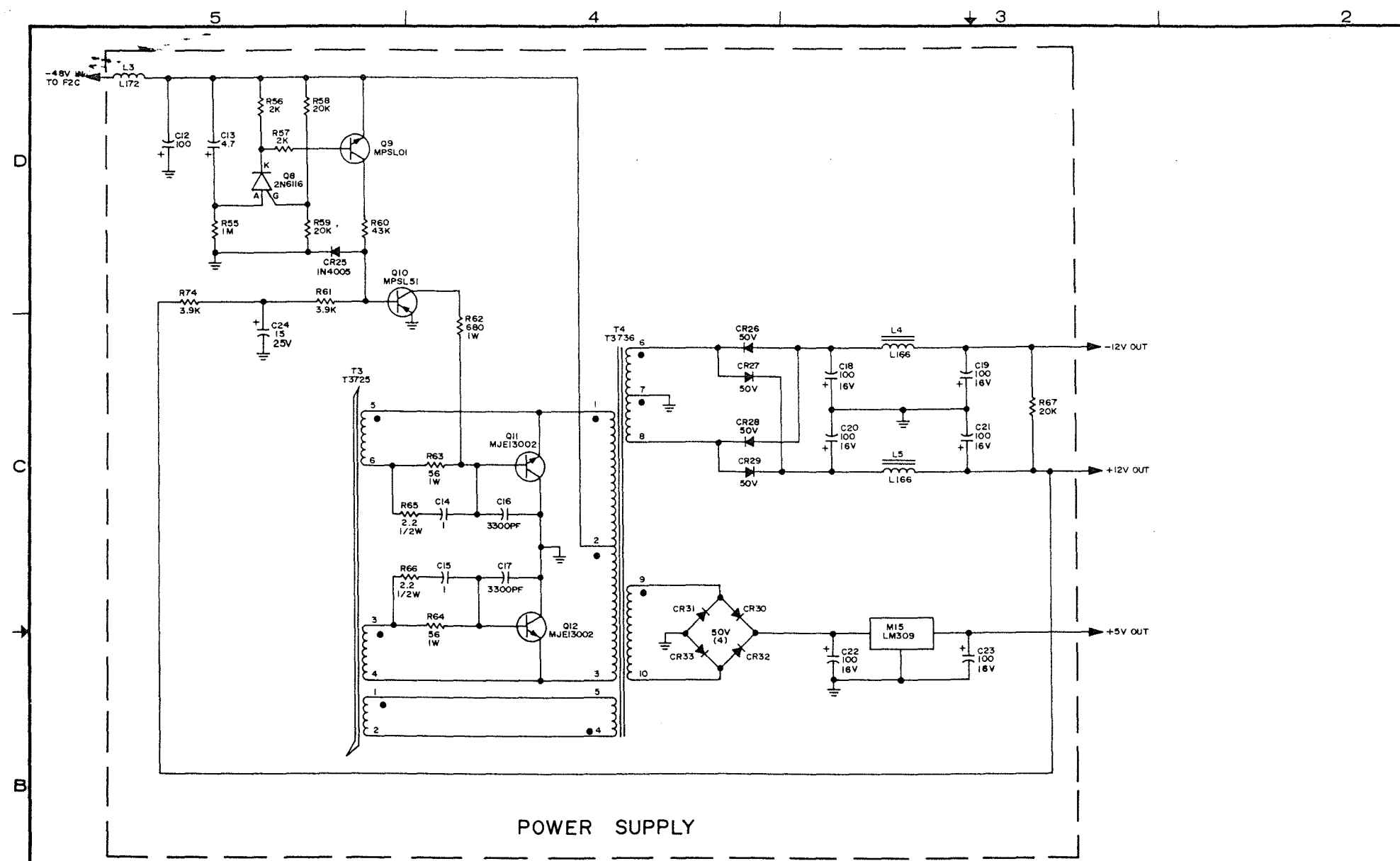
NOTE: Drawings updated July, 1981

# B325

## Schematic and Parts Location

### DRAWING PACKAGE

*Lynch*  
COMMUNICATION SYSTEMS INC.  
204 Edison Way Reno, Nevada 89520  
Telex - 35-4429 (702) 786-4020  
Cable Address - LYNCH COMM



POWER SUPPLY

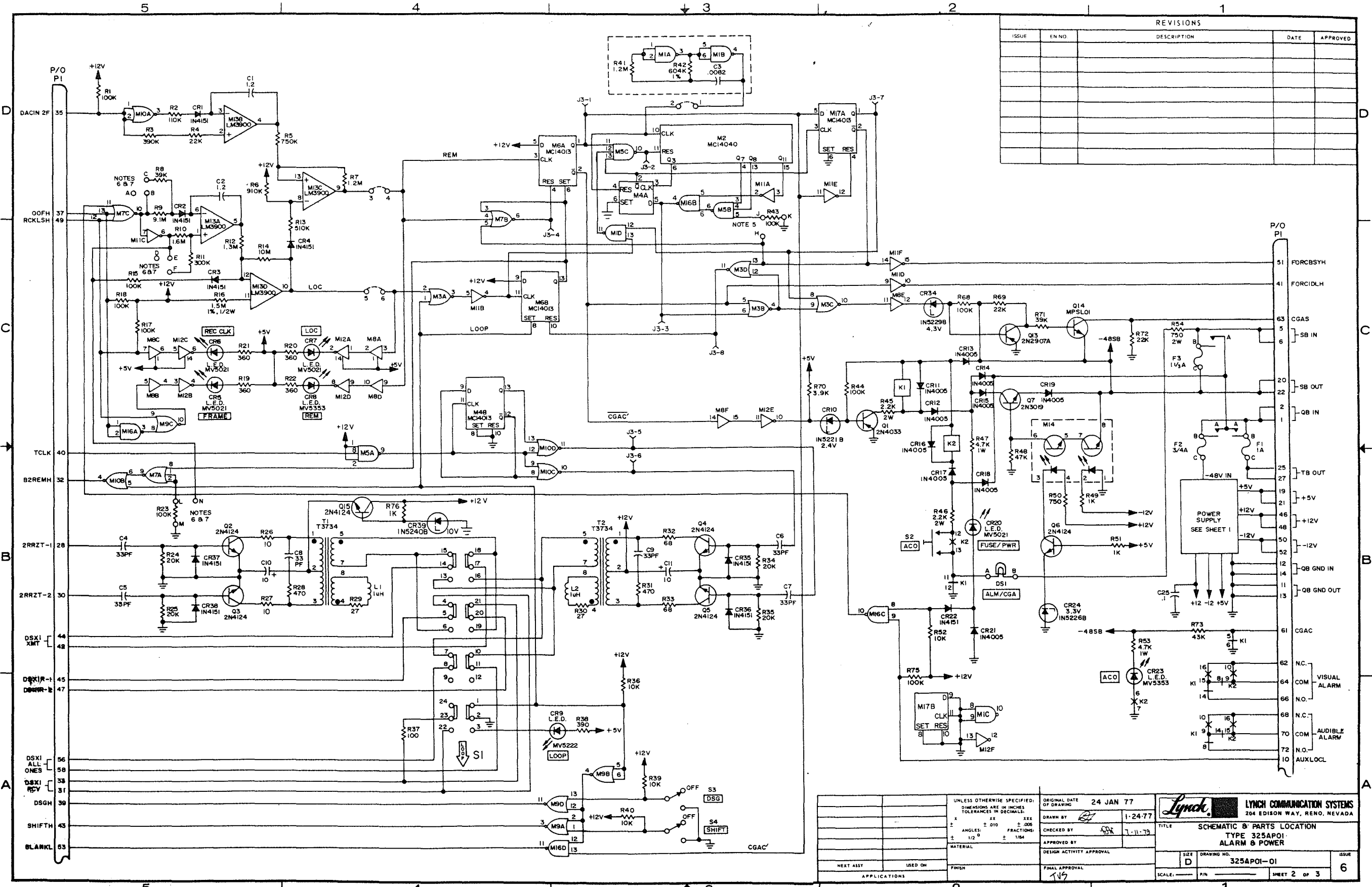
| REVISIONS |       |  |          |             |
|-----------|-------|--|----------|-------------|
| ISSUE     | EN NO | DESCRIPTION                              | DATE     | APPROVED    |
| 1         | 19242 | FINAL RELEASE                            | 6-16-77  | [Signature] |
| 2         | 19562 | R70 WAS 5.1KΩ AND CR10 WAS IN5229B, 4.3V | 9/13/77  | [Signature] |
| 3         | 19717 | ADDED M17                                | 10/24/77 | [Signature] |
| 4         | 19903 | ADDED R76, CR39 & Q15                    | 1/25/78  | [Signature] |
| 5         | 22115 | C24 WAS *20V*                            | 3-10-80  | [Signature] |
| 6         | 22061 | C18 - C23 WAS 20V                        | 4-3-80   | [Signature] |

NOTES:

- UNLESS OTHERWISE SPECIFIED ALL RESISTANCES IN OHMS, 1/4W, AND ALL CAPACITANCES ARE IN MICROFARADS.
- | HIGHEST REFERENCE DESIGNATIONS |      |     |    |    |    |    |     |    |
|--------------------------------|------|-----|----|----|----|----|-----|----|
| C25                            | CR39 | DS1 | F3 | J3 | K2 | L5 | M16 | P1 |
| Q15                            | R76  | S4  | T4 |    |    |    |     |    |
| REFERENCE DESIGNATIONS OMITTED |      |     |    |    |    |    |     |    |
| J1, J2                         |      |     |    |    |    |    |     |    |
- RELAY K1 SHOWN IDLE (ALARM).
- RELAY K2 SHOWN IDLE (NORMAL).
- FOR 10 SEC TRUNK PROCESSING, STRAP J TO K;  
FOR 2 SEC TRUNK PROCESSING, STRAP J TO H.
- FOR 285 MS LOCAL ALARM DETECTION,  
STRAP B TO C, E TO F AND L TO N.
- FOR 2 SEC LOCAL ALARM DETECTION,  
STRAP A TO B, D TO E AND L TO M.
- S1, S2, S3 AND S4 SHOWN IN NORMAL STATE.

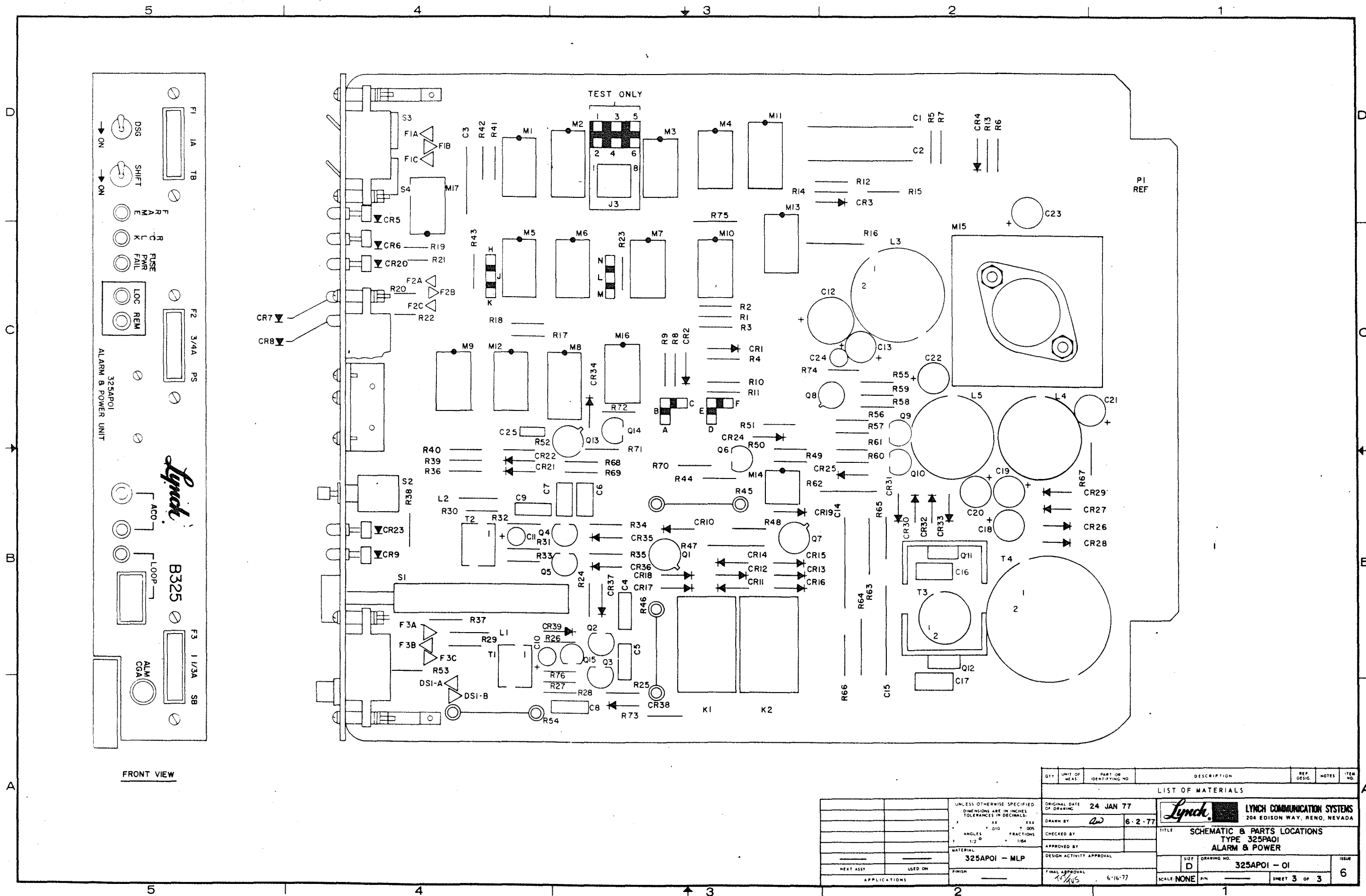
PARTS LOCATION - SEE SHEET 3

| QTY   | UNIT OF MEAS. | PART OR IDENTIFYING NO. | DESCRIPTION  | REF. DESIG. | NOTES | ITEM NO. |
|---|---------------|-------------------------|--|-------------|-------|----------|
| LIST OF MATERIALS   |               |                         |  |             |       |          |
| <p>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES IN DECIMALS:</p> <p>ANGLES: ± .010 FRACTIONS: ± .005 ± 1/64</p> <p>MATERIAL: 325APO1 MLP</p> <p>FINISH: _____</p> <p>APPROVED BY: _____</p> <p>DESIGN ACTIVITY APPROVAL: _____</p> <p>FINAL APPROVAL: _____</p> <p>DATE: 6-16-77</p> |               |                         |  |             |       |          |
| <p>ORIGINAL DATE OF DRAWING: 24 JAN 77</p> <p>DRAWN BY: _____</p> <p>CHECKED BY: _____</p> <p>DATE: 6-16-77</p>   |               |                         | <p>TITLE: SCHEMATIC &amp; PARTS LOCATION TYPE 325APO1 ALARM &amp; POWER</p> <p>SYMBOL: <b>Lynch</b> LYNCH COMMUNICATION SYSTEMS 204 EDISON WAY, RENO, NEVADA</p> <p>SIZE: D DRAWING NO.: 325APO1-01</p> <p>SCALE: NONE P/N: _____ SHEET 1 OF 3</p> |             |       |          |
| <p>ISSUE: 6</p>   |               |                         |  |             |       | <p>1</p> |



| REVISIONS |        |             |      |          |
|-----------|--------|-------------|------|----------|
| ISSUE     | EN NO. | DESCRIPTION | DATE | APPROVED |
|           |        |             |      |          |
|           |        |             |      |          |
|           |        |             |      |          |
|           |        |             |      |          |
|           |        |             |      |          |
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|  |         |                                       |  |
|--|---------|---------------------------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES IN DECIMALS: |         | ORIGINAL DATE OF DRAWING<br>24 JAN 77 | LYNCH COMMUNICATION SYSTEMS<br>204 EDISON WAY, RENO, NEVADA          |
| ± .010   | ± .005  | DRAWN BY<br>1-24-77                   |  |
| ± .005   | ± .002  | CHECKED BY<br>7-11-79                 | TITLE<br>SCHEMATIC & PARTS LOCATION<br>TYPE 325APOI<br>ALARM & POWER |
| ± .002   | ± .001  | APPROVED BY                           | SIZE<br>D  |
| ± .001   | ± .0005 | DESIGN ACTIVITY APPROVAL              | DRAWING NO.<br>325APOI-01  |
| ± .0005  | ± .0002 | FINAL APPROVAL                        | ISSUE<br>6   |
| ± .0002  | ± .0001 |                                       | SCALE: P/N SHEET 2 OF 3  |

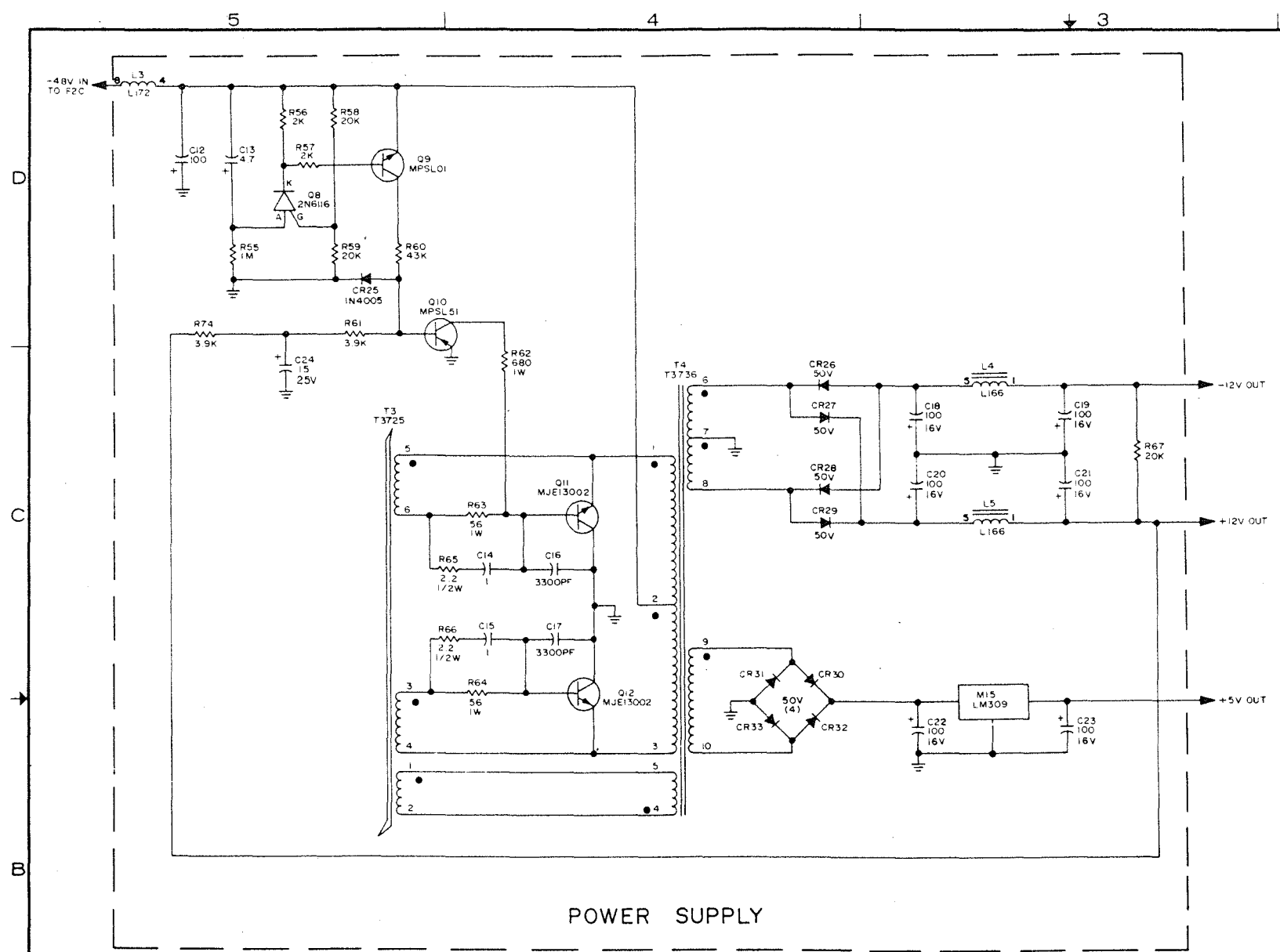


| QTY               | UNIT OF MEAS | PART OR IDENTIFYING NO | DESCRIPTION   | REF. DESIG. | NOTES         | ITEM NO. |
|-------------------|--------------|------------------------|---|-------------|---------------|----------|
| LIST OF MATERIALS |              |                        |   |             |               |          |
|                   |              |                        | ORIGINAL DATE OF DRAWING  | 24 JAN 77   |               |          |
|                   |              |                        | DRAWN BY  | aw 6-2-77   |               |          |
|                   |              |                        | CHECKED BY  |             |               |          |
|                   |              |                        | APPROVED BY   |             |               |          |
|                   |              |                        | DESIGN ACTIVITY APPROVAL  |             |               |          |
|                   |              |                        | FINAL APPROVAL  | 6-16-77     |               |          |
|                   |              |                        | MATERIAL  |             | 325APO1 - MLP |          |
|                   |              |                        | FINISH  |             |               |          |
|                   |              |                        | NEXT ASSY   |             | USED ON       |          |
|                   |              |                        | APPLICATIONS  |             |               |          |
|                   |              |                        | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES IN DECIMALS: |             |               |          |
|                   |              |                        | FRACTIONS   |             | DECIMALS      |          |
|                   |              |                        | ANGLES  |             | FRACTIONS     |          |
|                   |              |                        | 1/2°  |             | 1/64          |          |

LYNCH COMMUNICATION SYSTEMS  
 204 EDISON WAY, RENO, NEVADA

**SCHEMATIC & PARTS LOCATIONS**  
**TYPE 325PA01**  
**ALARM & POWER**

SIZE: D DRAWING NO.: 325APO1 - 01 ISSUE: 6  
 SCALE: NONE P/N: SHEET 3 OF 3



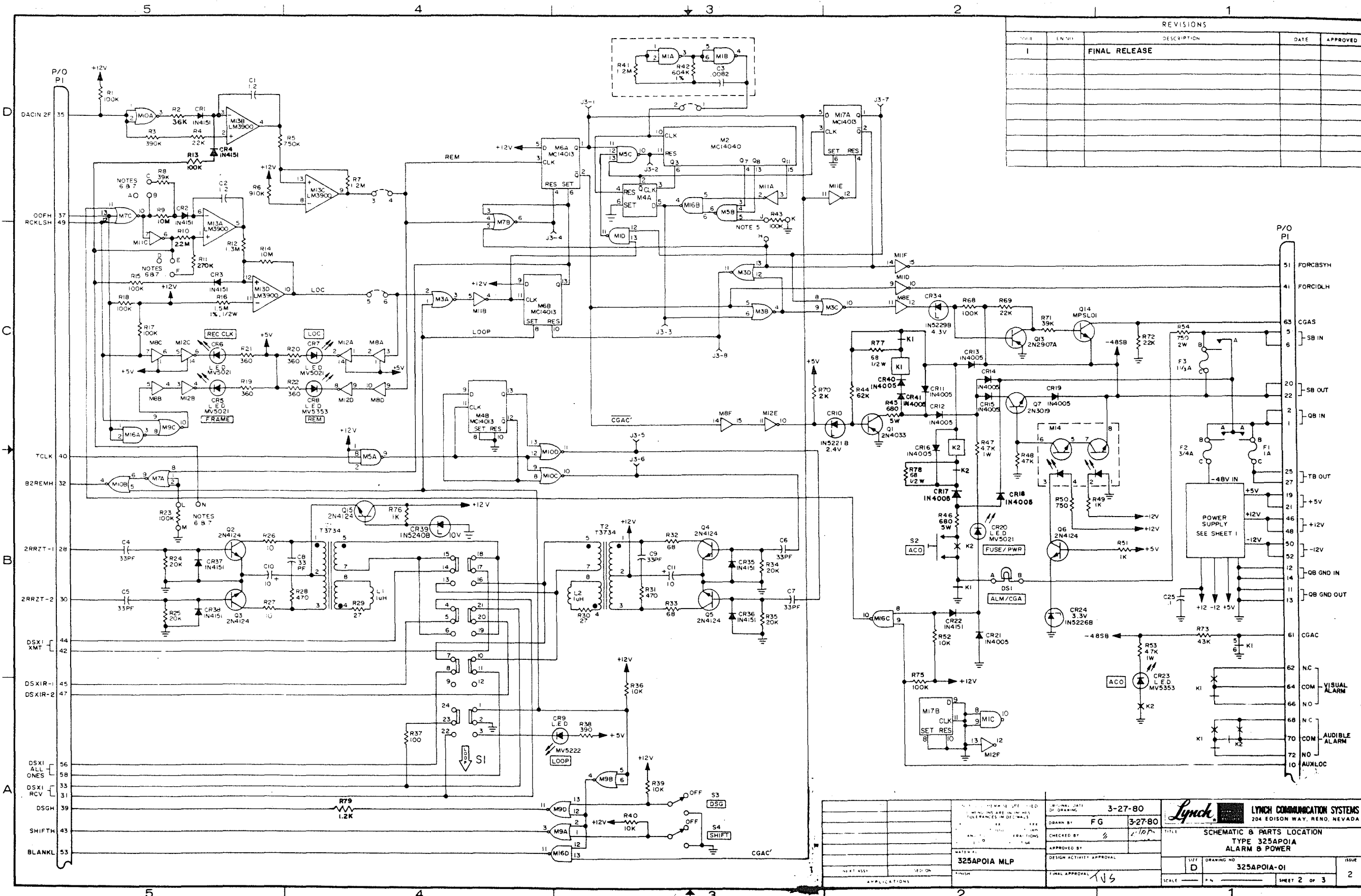
POWER SUPPLY

| REVISIONS |         |                        |         |          |
|-----------|---------|------------------------|---------|----------|
| NO.       | DATE    | DESCRIPTION            | DATE    | APPROVED |
| 1         | 2/24/80 | FINAL RELEASE          | 5-17-80 | TKS      |
| 2         | 2/21/79 | CHANGED R77, R78 VALUE | 1-7-79  | TKS      |
|           |         |                        |         |          |
|           |         |                        |         |          |
|           |         |                        |         |          |

- NOTES:
- UNLESS OTHERWISE SPECIFIED ALL RESISTANCES IN OHMS, 1/4W, AND ALL CAPACITANCES ARE IN MICROFARADS.
  - | HIGHEST REFERENCE DESIGNATIONS |      |     |    |    |    |    |     |    |
|--------------------------------|------|-----|----|----|----|----|-----|----|
| C25                            | CR41 | DS1 | F3 | J3 | K2 | L5 | M16 | PI |
| Q15                            | R79  | S4  | T4 |    |    |    |     |    |
| REFERENCE DESIGNATIONS OMITTED |      |     |    |    |    |    |     |    |
| J1, J2                         |      |     |    |    |    |    |     |    |
  - RELAY K1 SHOWN IDLE (ALARM).
  - RELAY K2 SHOWN IDLE (NORMAL).
  - FOR 10 SEC TRUNK PROCESSING, STRAP J TO K;  
FOR 2 SEC TRUNK PROCESSING, STRAP J TO H.
  - FOR 285 MS LOCAL ALARM DETECTION,  
STRAP B TO C, E TO F AND L TO N.
  - FOR 2 SEC LOCAL ALARM DETECTION,  
STRAP A TO B, D TO E AND L TO M.
  - S1, S2, S3 AND S4 SHOWN IN NORMAL STATE.

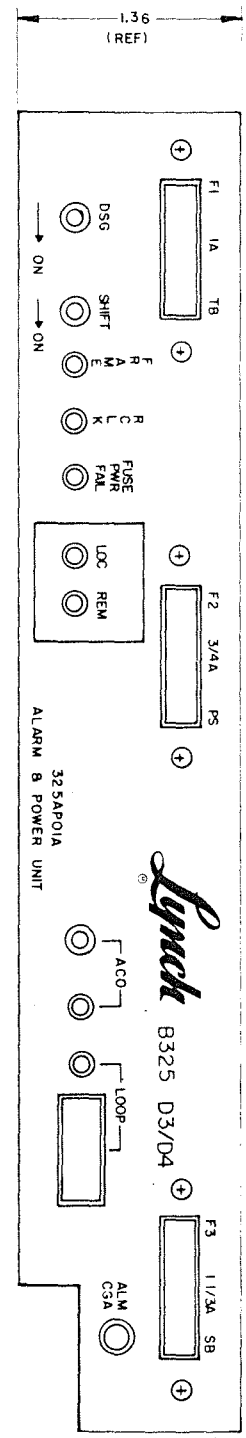
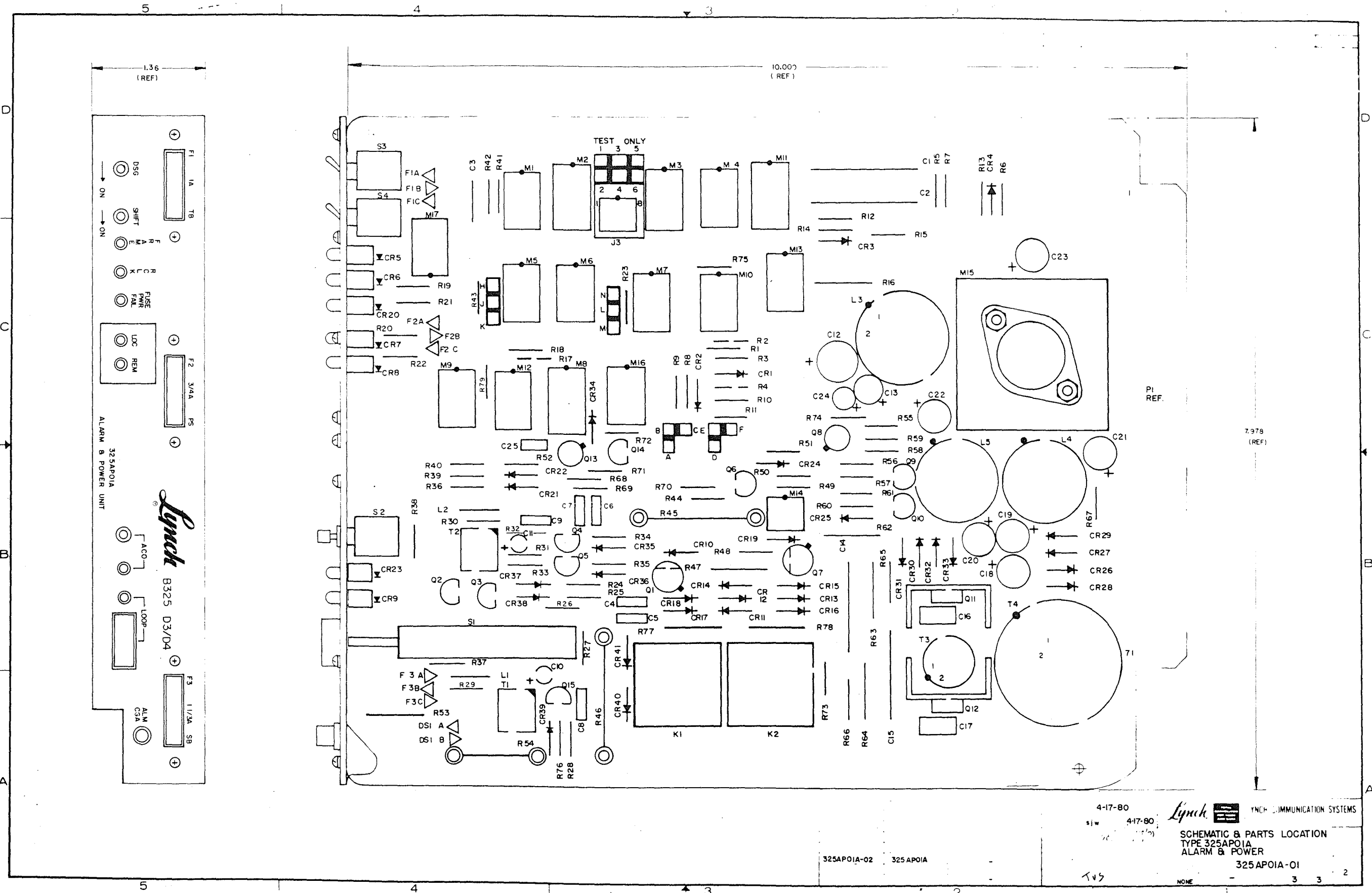
PARTS LOCATION - SEE SHEET 3

| QTY  | UNIT OR MEAS | PART OR IDENTIFYING NO.  | QTY. DESCRIPTION | REF. DESIG.   | NOTES | ITEM NO. |
|--|--------------|--------------------------|------------------|---|-------|----------|
| LIST OF MATERIALS  |              |                          |                  |   |       |          |
| UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES, TOLERANCES IN DECIMALS |              | ORIGINAL DATE OF DRAWING | 3-27-80          | LYNCH COMMUNICATION SYSTEMS<br>204 EDISON WAY, RENO, NEVADA |       |          |
| DRAWN BY   |              | FG                       | 3-27-80          | TITLE   |       |          |
| CHECKED BY   |              | TKS                      | 7/3/80           | SCHEMATIC & PARTS LOCATION                                  |       |          |
| APPROVED BY  |              | TKS                      | 7/3/80           | TYPE 325APOIA   |       |          |
| DESIGN ACTIVITY APPROVAL   |              |                          |                  | ALARM & POWER   |       |          |
| MATERIAL   |              | 325APOIA MLP             |                  | DRAWING NO.   |       |          |
| FINISH   |              |                          |                  | D   |       |          |
| HEAT ASSY  |              |                          |                  | 325APOIA-OI   |       |          |
| APPLICATIONS   |              |                          |                  | SCALE NONE  |       |          |
| FINAL APPROVAL   |              | TKS                      |                  | SHEET 1 OF 3  |       |          |
|  |              |                          |                  | ISSUE   |       |          |
|  |              |                          |                  | 2   |       |          |



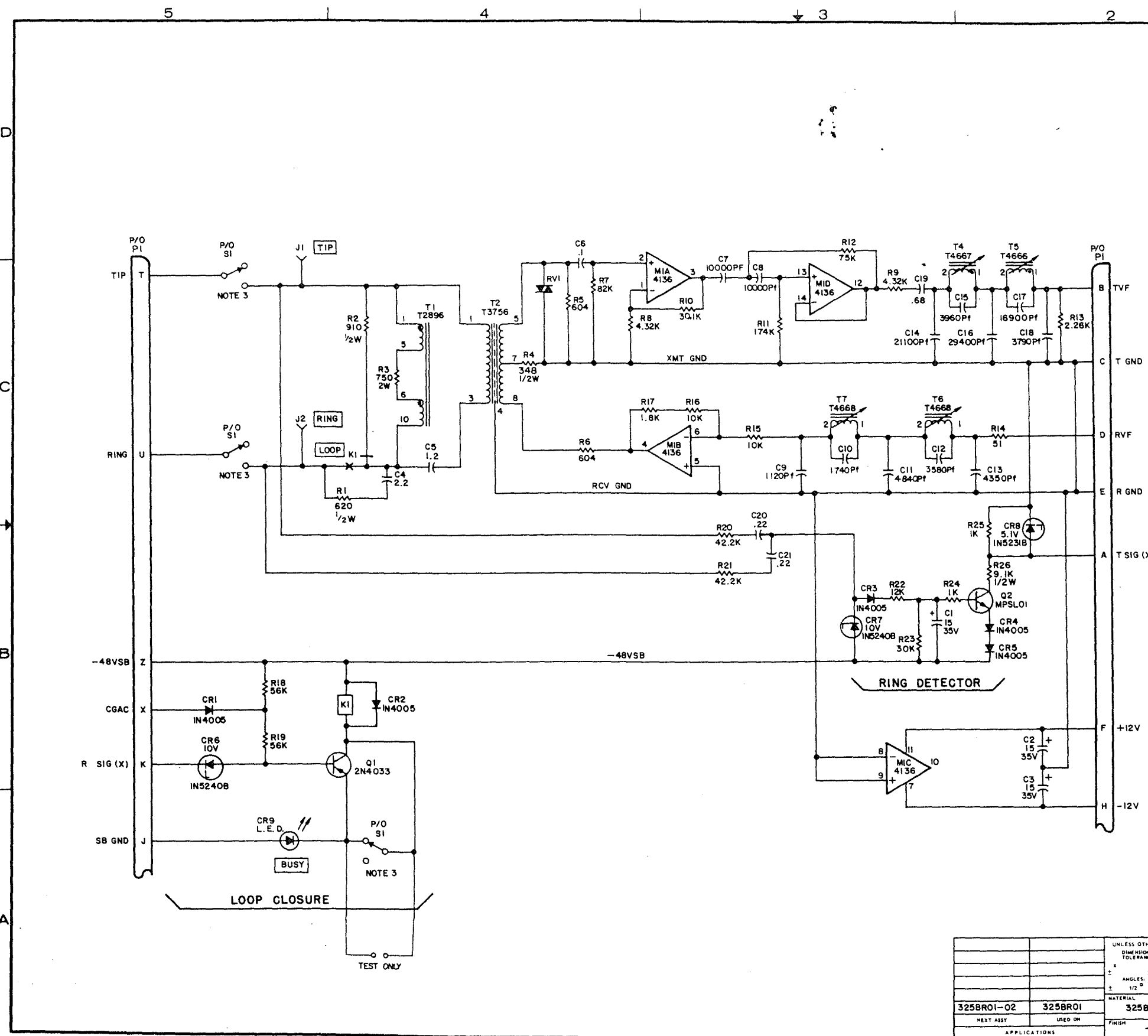
| REVISIONS |         |               |      |          |
|-----------|---------|---------------|------|----------|
| NO.       | EN. NO. | DESCRIPTION   | DATE | APPROVED |
| 1         |         | FINAL RELEASE |      |          |
|           |         |               |      |          |
|           |         |               |      |          |
|           |         |               |      |          |
|           |         |               |      |          |
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|           |         |               |      |          |

|  |  |  |
|--|--|--|
| ORIGINAL DATE OF DRAWING<br><b>3-27-80</b> | <b>Lynch</b>                                   | <b>LYNCH COMMUNICATION SYSTEMS</b><br>204 EDISON WAY, RENO, NEVADA                               |
| DRAWN BY<br><b>FG</b>                      | CHECKED BY<br><b>1/107</b>                     | TITLE<br><b>SCHEMATIC B PARTS LOCATION<br/>         TYPE 325APOIA<br/>         ALARM B POWER</b> |
| APPROVED BY<br><b>[Signature]</b>          | DESIGN ACTIVITY APPROVAL<br><b>[Signature]</b> | SHEET NO.<br><b>325APOIA-01</b>  |
| DATE<br><b>3-27-80</b>                     | SCALE<br><b>1:1</b>                            | SHEET 2 OF 3   |



4-17-80  
 sjw 417-80  
 Lynch COMMUNICATION SYSTEMS  
 SCHEMATIC & PARTS LOCATION  
 TYPE 325APO1A  
 ALARM & POWER  
 325APO1A-01  
 NONE 3 3 2

325APO1A-02 325APO1A



| REVISIONS |       |  |         |          |
|-----------|-------|--|---------|----------|
| ISSUE     | EN NO | DESCRIPTION  | DATE    | APPROVED |
| 1         | 20354 | FINAL RELEASE  | 8-10-78 | TVS      |
| 2         | 21080 | R2 WAS 1/4W; R1 WAS 1/4W; C5 WAS 2.2; R4 WAS 4.32; R10 WAS 30.1K; C20 WAS 47; ADD. C21 | 1-18-79 | TVS      |
| 3         | 21552 | R10 VALUE WAS "40.2K"  | 9-24-79 | TVS      |

NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL RESISTANCES ARE IN OHMS, 1/4W & ALL CAPACITANCES IN MICROFARADS.

| HIGHEST REFERENCE DESIGNATIONS |     |    |    |    |    |    |     |
|--------------------------------|-----|----|----|----|----|----|-----|
| C21                            | CR9 | J2 | K1 | M1 | P1 | Q2 | R28 |
| S1                             | T7  |    |    |    |    |    |     |
| REFERENCE DESIGNATIONS OMITTED |     |    |    |    |    |    |     |
| T3                             |     |    |    |    |    |    |     |

- 3. SI SHOWN IN BUSY STATE.
- 4. KI SHOWN DE-ENERGIZED.

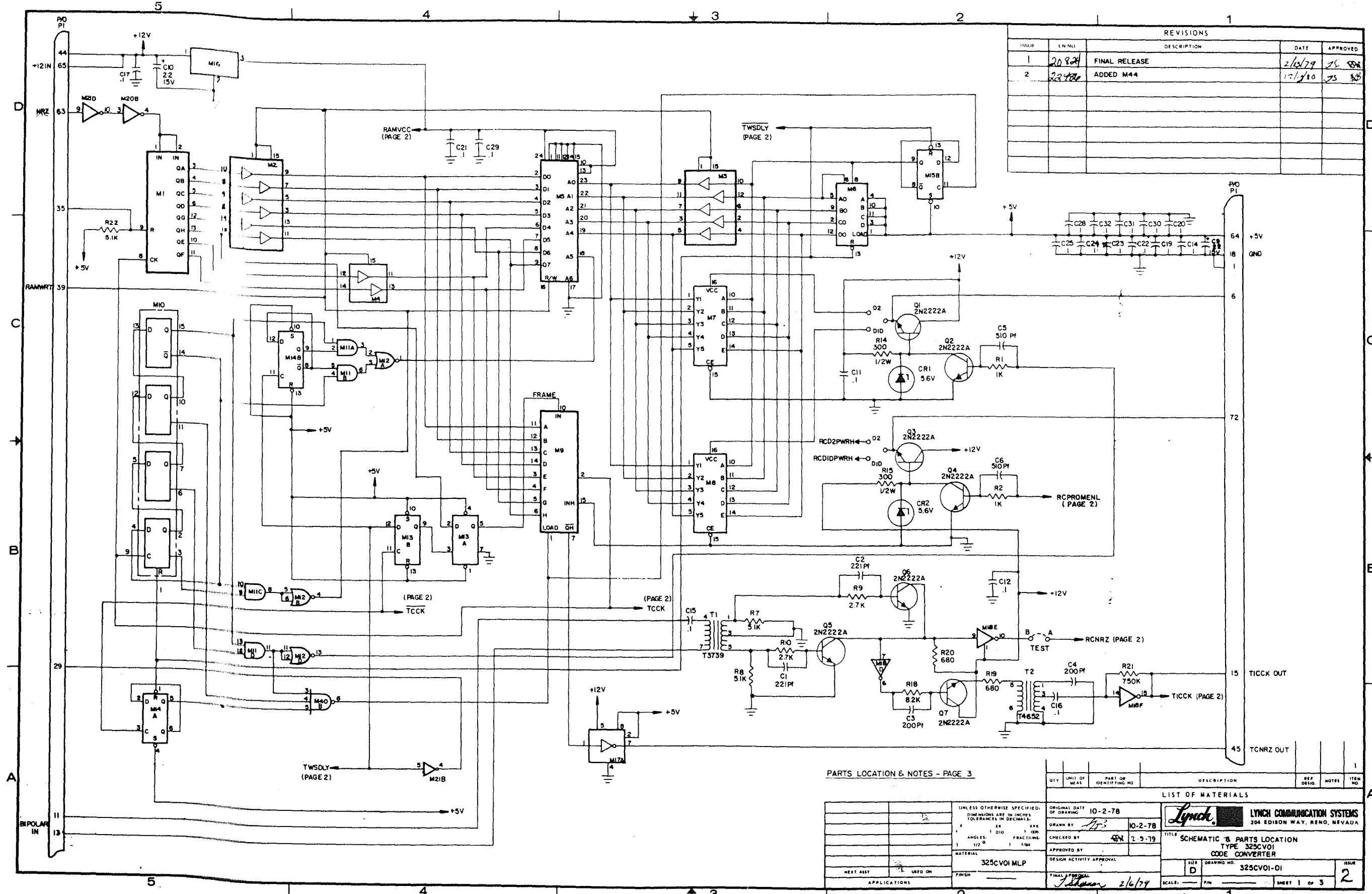
PARTS LOCATION-SEE SHEET 2

| QTY                      | UNIT OF MEAS | PART OR IDENTIFYING NO. | DESCRIPTION  | REF. DESIG. | NOTES | ITEM NO. |
|--------------------------|--------------|-------------------------|--|-------------|-------|----------|
| LIST OF MATERIALS        |              |                         |  |             |       |          |
| ORIGINAL DATE OF DRAWING |              |                         | 5 JUN 78   |             |       |          |
| DRAWN BY                 |              |                         | 5 JUN 78   |             |       |          |
| CHECKED BY               |              |                         | 1-19-78  |             |       |          |
| APPROVED BY              |              |                         |  |             |       |          |
| DESIGN ACTIVITY APPROVAL |              |                         |  |             |       |          |
| FINAL APPROVAL           |              |                         |  |             |       |          |
| MATERIAL                 |              |                         | 325BR01 MLP  |             |       |          |
| NEXT ASSY                |              |                         | USED ON  |             |       |          |
| FINISH                   |              |                         |  |             |       |          |
| APPLICATIONS             |              |                         |  |             |       |          |
| TITLE                    |              |                         | SCHEMATIC & PARTS LOCATION<br>TYPE 325BR01<br>BRO CHANNEL UNIT (OFFICE) 2W 900.0 |             |       |          |
| DRAWING NO.              |              |                         | 325BR01-01   |             |       |          |
| SCALE:                   |              |                         | SHEET 1 OF 2   |             |       |          |
| P/N                      |              |                         | 3  |             |       |          |









| REVISIONS |        |               |         |          |
|-----------|--------|---------------|---------|----------|
| INSER     | LN NBY | DESCRIPTION   | DATE    | APPROVED |
| 1         | 20824  | FINAL RELEASE | 2/10/79 | JL       |
| 2         | 23480  | ADDED M44     | 12/2/80 | JS       |

PARTS LOCATION & NOTES - PAGE 3

| QTY | UNIT OF MEAS | PART OR IDENTIFYING NO | DESCRIPTION | REF DESIG | NOTE | ITEM NO |
|-----|--------------|------------------------|-------------|-----------|------|---------|
|     |              |                        |             |           |      |         |

LIST OF MATERIALS

ORIGINAL DATE OF DRAWING: 10-2-78

DRAWN BY: *MS* 10-2-78

CHECKED BY: *GN* 2-5-79

APPROVED BY: \_\_\_\_\_

DESIGN ACTIVITY APPROVAL: \_\_\_\_\_

FINAL APPROVAL: *J. Johnson* 2/6/79

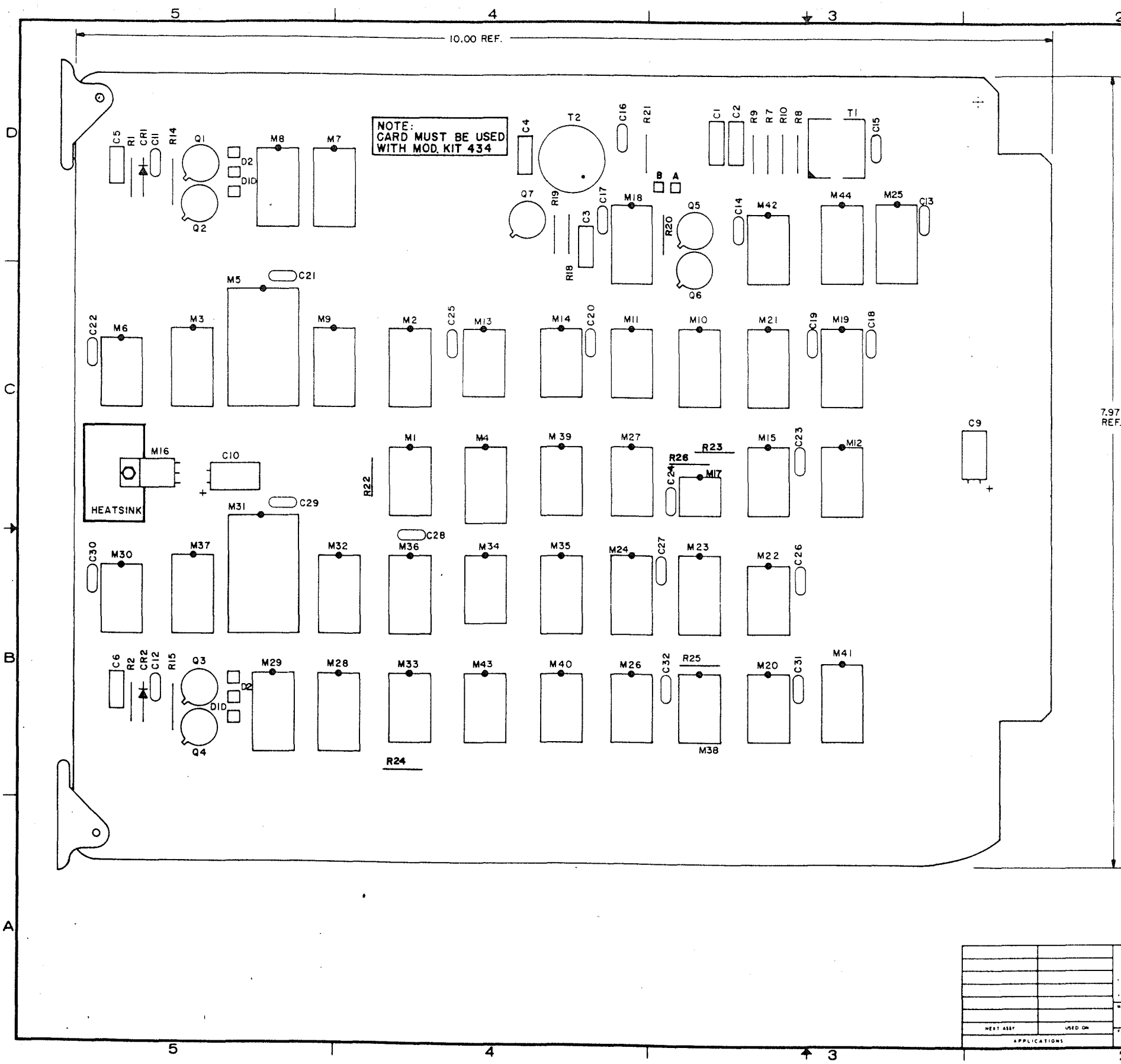
TITLE: SCHEMATIC & PARTS LOCATION TYPE 325CVO1 CODE CONVERTER

SIZE: D DRAWING NO: 325CVO1-01 SHEET 1 OF 3

SCALE: 1/8" = 1"

**Lynch** LYNCH COMMUNICATION SYSTEMS  
204 EDISON WAY, RENO, NEVADA





NOTE:  
CARD MUST BE USED  
WITH MOD. KIT 434

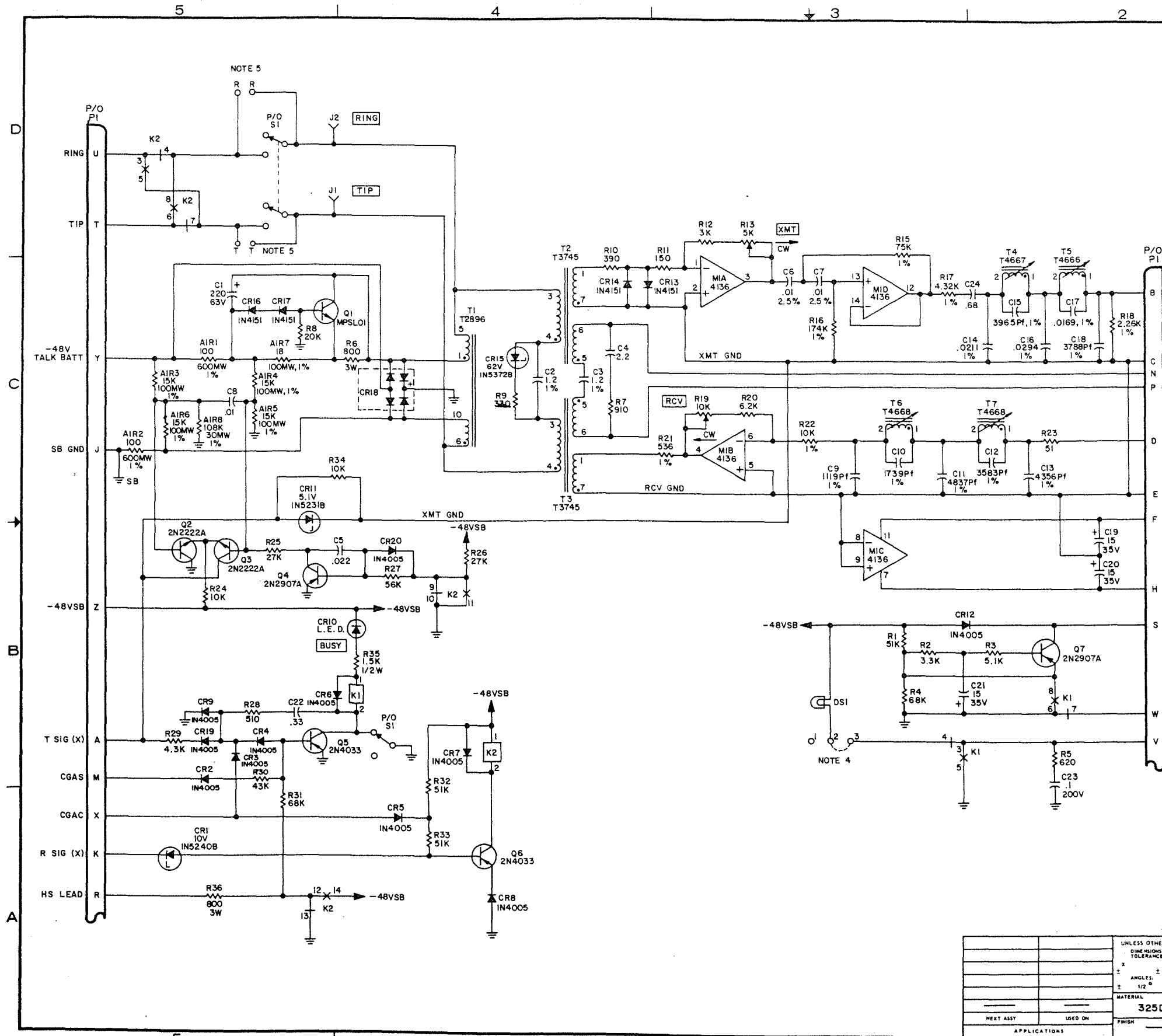
| REVISIONS |      |             |      |          |
|-----------|------|-------------|------|----------|
| NO.       | DATE | DESCRIPTION | DATE | APPROVED |
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|           |      |             |      |          |

NOTES:  
1. UNLESS OTHERWISE SPECIFIED, ALL RESISTANCES  
ARE IN OHMS, 1/4 W AND ALL CAPACITANCES  
ARE IN MICROFARADS.

| HIGHEST REFERENCE DESIGNATIONS |     |     |    |    |     |    |
|--------------------------------|-----|-----|----|----|-----|----|
| C32                            | CR2 | M44 | P1 | Q7 | R24 | T2 |
| REFERENCE DESIGNATIONS OMITTED |     |     |    |    |     |    |
|                                |     |     |    |    |     |    |
|                                |     |     |    |    |     |    |

| QTY | UNIT OF MEAS. | PART OR IDENTIFYING NO. | DESCRIPTION | REF. DESIG. | NOTES | ITEM NO. |
|-----|---------------|-------------------------|-------------|-------------|-------|----------|
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|---|------------------------------------|--|
| UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES, TOLERANCES IN DECIMALS. | ORIGINAL DATE OF DRAWING: 11-15-78 | <b>LYNCH COMMUNICATION SYSTEMS</b><br>204 EDISON WAY, RENO, NEVADA |
| ANGLES: 30° 45° 60° 90° 120° 135° 150° 180°                                   | DRAWN BY: F. BUFFO 11-15-78        |  |
| MATERIAL: 325CVO1 MLP   | CHECKED BY:                        | TITLE: SCHEMATIC & PARTS LOCATION, TYPE 325CVO1 CODE CONVERTER     |
| FINISH:   | APPROVED BY:                       | SIZE: D DRAWING NO: 325CVO1-01                                     |
| APPLICATIONS:   | DATE APPROVED: 11/15/78            | SCALE: NONE P/N: SHEET 3 OF 3                                      |



| REVISIONS |       |                        |         |          |
|-----------|-------|------------------------|---------|----------|
| ISSUE     | EN NO | DESCRIPTION            | DATE    | APPROVED |
| 1         | 19249 | FINAL RELEASE          | 6-10-77 | TVJ/AVS  |
| 2         | 19533 | REMOVED RI4            | 7-7-77  | AVC/WQ   |
| 3         | 19896 | ADDED T-T & R-R STUDS. | 2-9-78  | AVS      |

- NOTES:
- UNLESS OTHERWISE SPECIFIED ALL RESISTANCES ARE IN OHMS AND ALL CAPACITANCES IN MICROFARADS.
  - | HIGHEST REFERENCE DESIGNATIONS |     |      |     |    |    |    |    |    |
|--------------------------------|-----|------|-----|----|----|----|----|----|
| AIR8                           | C24 | CR23 | DS1 | J2 | K2 | M1 | P1 | Q7 |
| R36                            | SI  | T7   |     |    |    |    |    |    |
| REFERENCE DESIGNATIONS OMITTED |     |      |     |    |    |    |    |    |
| RI4                            |     |      |     |    |    |    |    |    |
  - SI SHOWN IN BUSY STATE.
  - STRAP 1 TO 2 FOR ABSENCE OF GROUND SEARCHING. STRAP 2 TO 3 FOR BATTERY SEARCHING.
  - TO BYPASS TIP & RING ON THE BUSY SWITCH STRAP T-T AND R-R.

| QTY               | UNIT OF MEAS | PART OR IDENTIFYING NO. | DESCRIPTION | REF. DESIG. | NOTES | ITEM NO. |
|-------------------|--------------|-------------------------|-------------|-------------|-------|----------|
| LIST OF MATERIALS |              |                         |             |             |       |          |
|                   |              |                         |             |             |       | 1        |

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES IN DECIMALS:  
 X .XX XXX  
 ± .010 2.000  
 ± .125 1/16

MATERIAL: 325DPOI MLP

APPROVED BY: \_\_\_\_\_

DATE: 4 MAR 77

CHECKED BY: \_\_\_\_\_

DATE: 6-9-77

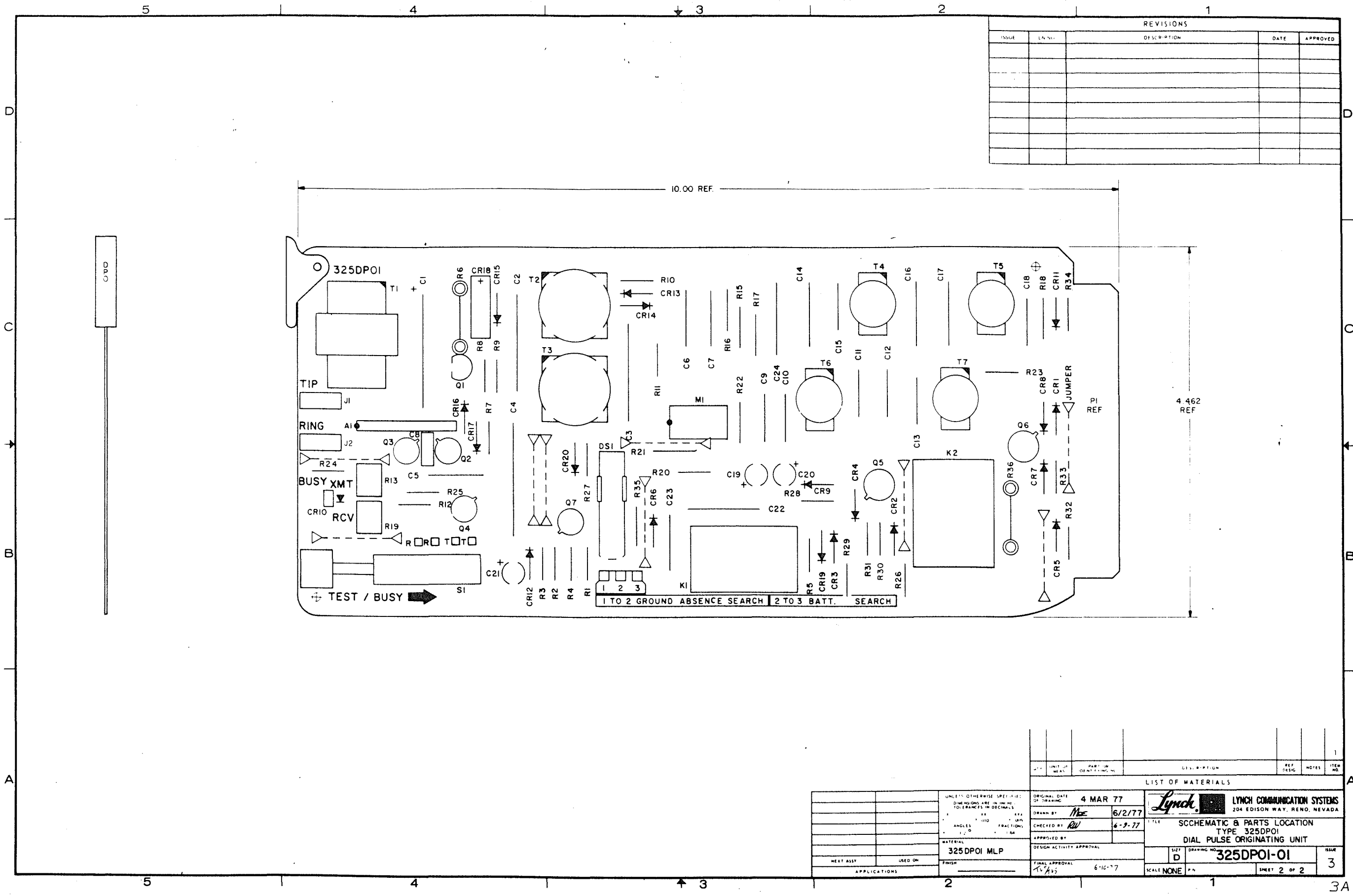
FINAL APPROVAL: TVJ/AVS 6-10-77

**Lynch** LYNCH COMMUNICATION SYSTEMS  
 204 EDISON WAY, RENO, NEVADA

TITLE: SCHEMATIC & PARTS LOCATION  
 TYPE 325DPOI  
 DIAL PULSE ORIGINATING UNIT

ISSUE: D DRAWING NO: 325DPOI-01

SCALE: NONE P/N: \_\_\_\_\_ SHEET 1 OF 2

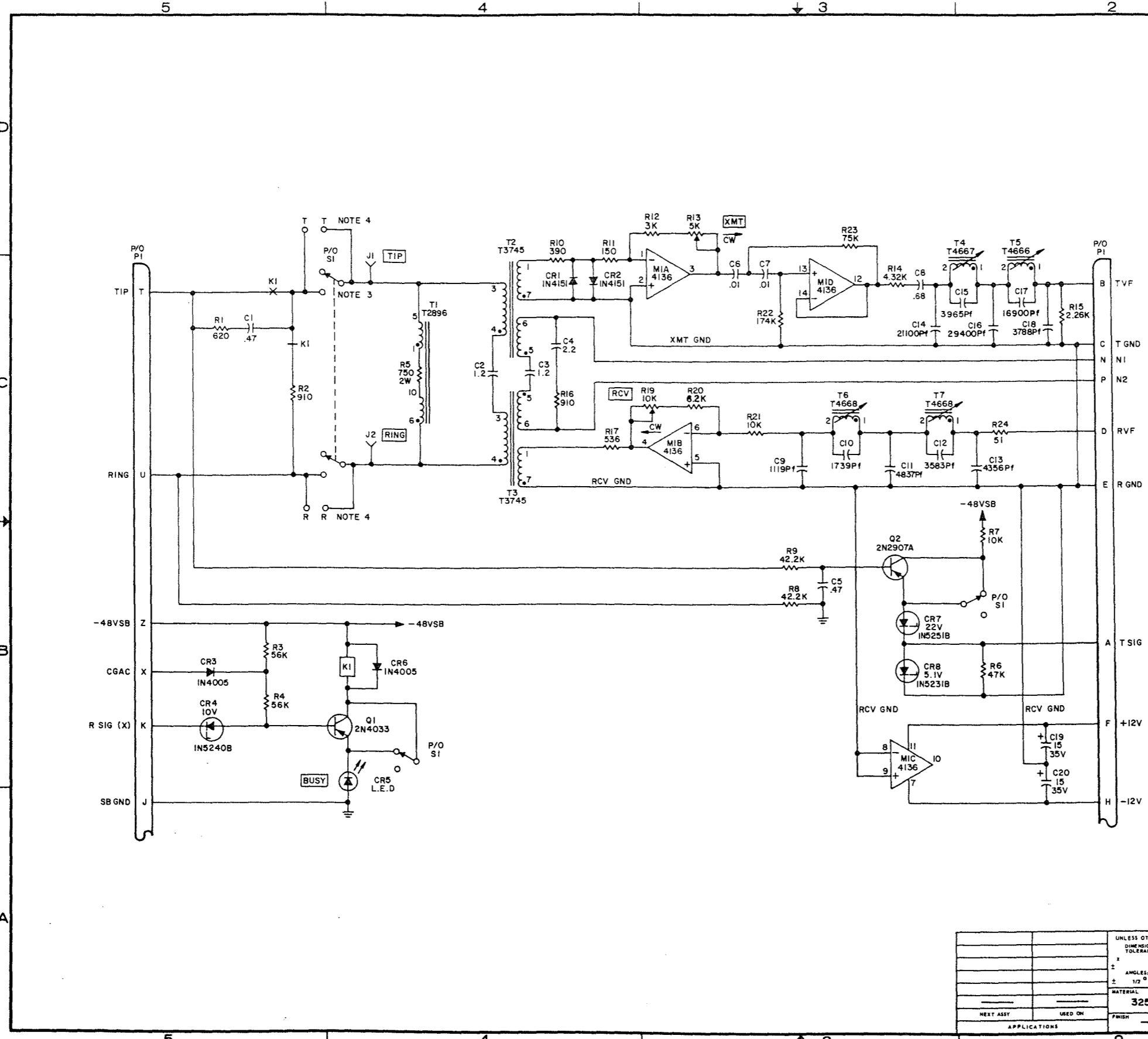


| REVISIONS |         |             |      |          |
|-----------|---------|-------------|------|----------|
| ISSUE     | LN. NO. | DESCRIPTION | DATE | APPROVED |
|           |         |             |      |          |
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| UNIT OR PART NO. | DESCRIPTION | REF. DESIG. | NOTES | ITEM NO. |
|------------------|-------------|-------------|-------|----------|
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|   |                                      |
|---|--------------------------------------|
| UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES IN DECIMALS | ORIGINAL DATE OF DRAWING<br>4 MAR 77 |
| ANGLES 1/16 1/32 1/64 FRACTIONS   | DRAWN BY<br>Mec 6/2/77               |
| MATERIAL<br>325DPOI MLP   | CHECKED BY<br>RW 6-9-77              |
| FINISH  | APPROVED BY                          |
| HEAT ASST. USED ON  | DESIGN ACTIVITY APPROVAL             |
| APPLICATIONS  | FINAL APPROVAL<br>KAS 6-10-77        |

|   |  |
|---|--|
| LIST OF MATERIALS   |  |
| LYNCH COMMUNICATION SYSTEMS<br>204 EDISON WAY, RENO, NEVADA | TITLE<br>SCHEMATIC & PARTS LOCATION<br>TYPE 325DPOI<br>DIAL PULSE ORIGINATING UNIT |
| DRAWING NO.<br>325DPOI-01                                   | SHEET 2 OF 2   |
| SCALE NONE  | ISSUE NO.<br>3   |



| REVISIONS |       |  |         |          |
|-----------|-------|--|---------|----------|
| ISSUE     | EN NO | DESCRIPTION                              | DATE    | APPROVED |
| 1         | 19250 | FINAL RELEASE                            | 6-14-77 | TVS      |
| 2         | 19534 | REMOVED R18, R10 WAS 2.2K & R20 WAS 6.8K | 9-7-77  | TVS      |
| 3         | 19897 | ADDED "T" & "R" STUDS & NOTE 4           | 2-1-78  | TVS      |
|           |       |  |         |          |
|           |       |  |         |          |
|           |       |  |         |          |

- NOTES:
- UNLESS OTHERWISE SPECIFIED ALL RESISTANCES ARE IN OHMS, 1/4W & ALL CAPACITANCES IN MICROFARADS.
  - | HIGHEST REFERENCE DESIGNATIONS |     |    |    |    |    |    |     |
|--------------------------------|-----|----|----|----|----|----|-----|
| C20                            | CR8 | J2 | K1 | M1 | PI | Q2 | R24 |
| T7                             |     |    |    |    |    |    |     |
| REFERENCE DESIGNATIONS OMITTED |     |    |    |    |    |    |     |
| R18                            |     |    |    |    |    |    |     |
  - SI SHOWN IN BUSY STATE.
  - TO BYPASS TIP & RING ON THE BUSY SWITCH, STRAP T-T AND R-R.

PARTS LOCATION-SEE SHEET 2

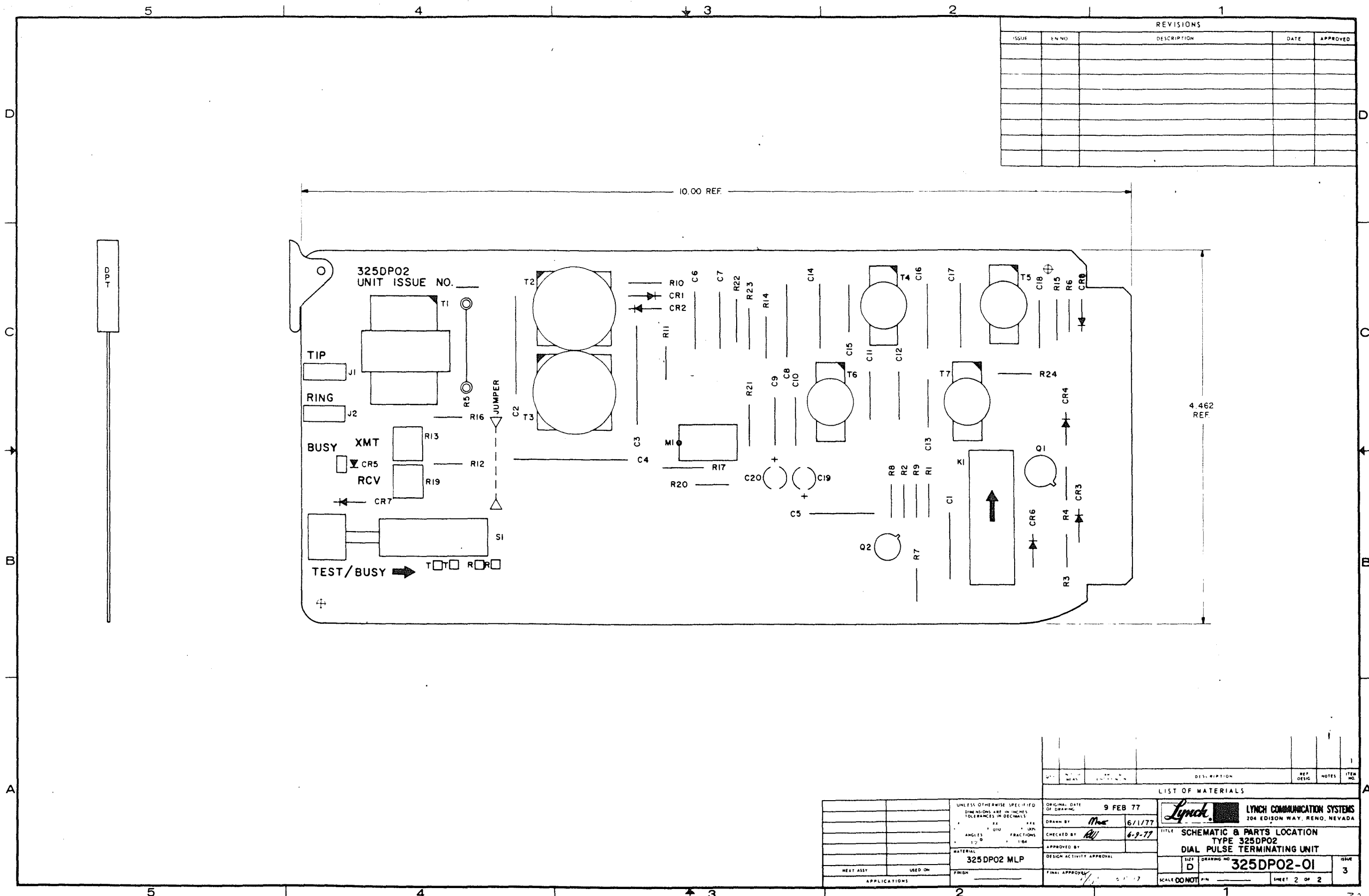
| QTY               | UNIT OF MEAS. | PART OR IDENTIFYING NO. | DESCRIPTION | REF. DESIG. | NOTES | ITEM NO. |
|-------------------|---------------|-------------------------|-------------|-------------|-------|----------|
| LIST OF MATERIALS |               |                         |             |             |       |          |
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UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES  
TOLERANCES IN DECIMALS:

X .XX  
 Z .010  
 ANGLE: ± 0°  
 FRACTIONS: 1/2" ± 1/64"

ORIGINAL DATE OF DRAWING: 9 FEB 77  
 DRAWN BY: TVS  
 CHECKED BY: TVS  
 APPROVED BY: TVS  
 DESIGN ACTIVITY APPROVAL: TVS  
 FINAL APPROVAL: TVS  
 SCALE: NONE  
 SHEET 1 OF 2

**LYNCH COMMUNICATION SYSTEMS**  
 204 EDISON WAY, RENO, NEVADA  
**TITLE**  
 SCHEMATIC & PARTS LOCATION  
 TYPE 325DP02  
 DIAL PULSE TERMINATING UNIT  
**SIZE**  
 D  
**DRAWING NO.**  
 325DP02-01  
**ISSUE**  
 3

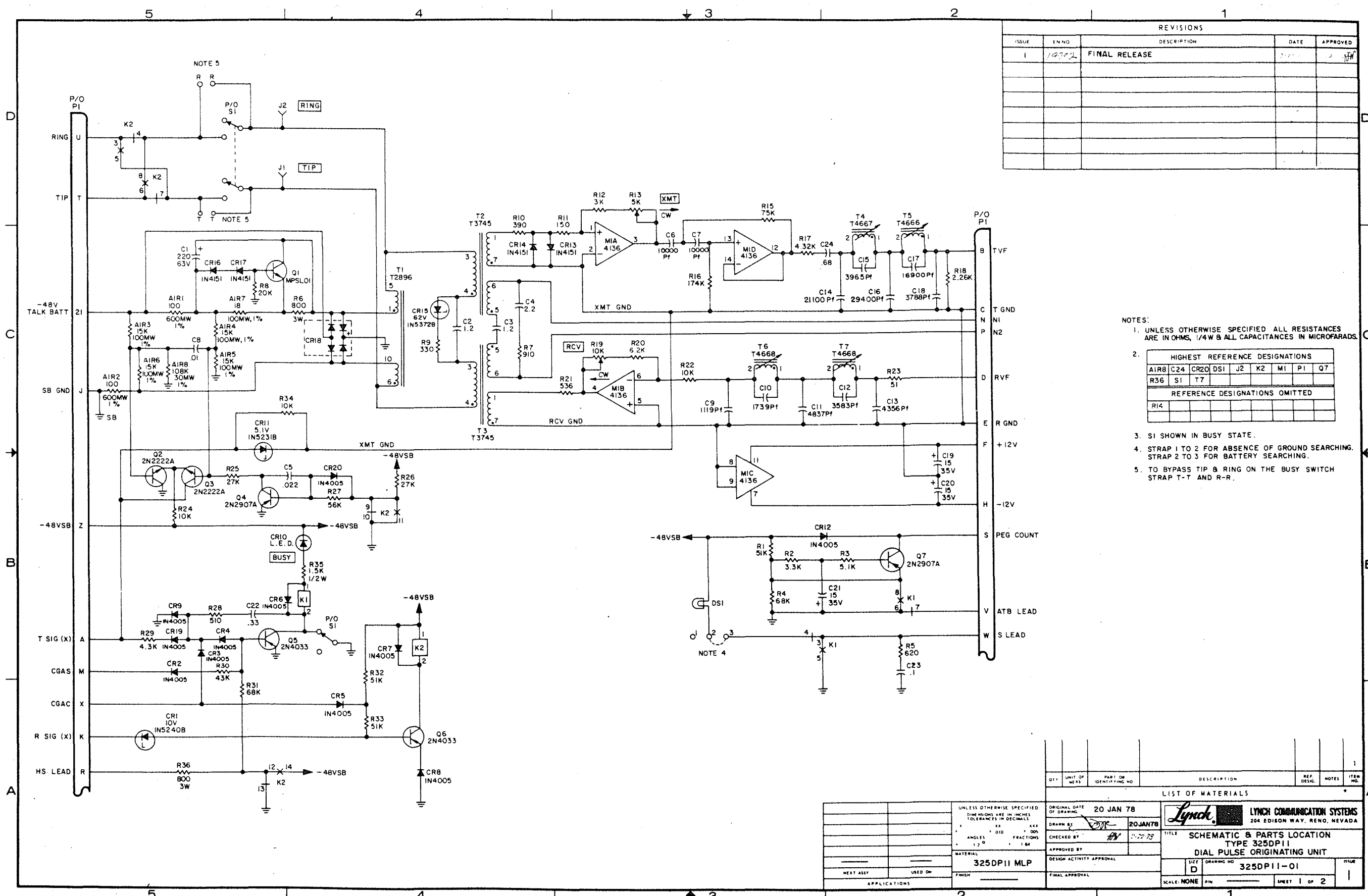


| REVISIONS |       |             |      |          |
|-----------|-------|-------------|------|----------|
| ISSUE     | EN NO | DESCRIPTION | DATE | APPROVED |
|           |       |             |      |          |
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| LIST OF MATERIALS |      |             |             |          |
|-------------------|------|-------------|-------------|----------|
| QTY               | UNIT | DESCRIPTION | REF. DESIG. | ITEM NO. |
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| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES IN DECIMALS | ORIGINAL DATE OF DRAWING<br>9 FEB 77 |
| DRAWN BY<br><i>Moe</i>   | 6/11/77                              |
| CHECKED BY<br><i>AW</i>  | 6-9-77                               |
| APPROVED BY  |                                      |
| DESIGN ACTIVITY APPROVAL   |                                      |
| FINAL APPROVAL   |                                      |

|   |                           |
|---|---------------------------|
| <b>Lynch</b> LYNCH COMMUNICATION SYSTEMS<br>204 EDISON WAY, RENO, NEVADA        |                           |
| TITLE SCHEMATIC & PARTS LOCATION<br>TYPE 325DP02<br>DIAL PULSE TERMINATING UNIT |                           |
| MATERIAL<br>325DP02 MLP   | DRAWING NO.<br>325DP02-01 |
| FINISH  | SHEET 2 OF 2              |
| SCALE DONOT   | ITEM NO. 3                |



| REVISIONS |       |               |      |          |
|-----------|-------|---------------|------|----------|
| ISSUE     | EN NO | DESCRIPTION   | DATE | APPROVED |
| 1         | 1978  | FINAL RELEASE |      |          |
|           |       |               |      |          |
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|           |       |               |      |          |

- NOTES:
- UNLESS OTHERWISE SPECIFIED ALL RESISTANCES ARE IN OHMS, 1/4W & ALL CAPACITANCES IN MICROFARADS.
  - HIGHEST REFERENCE DESIGNATIONS
- |                                |     |      |     |    |    |    |    |    |
|--------------------------------|-----|------|-----|----|----|----|----|----|
| AIR8                           | C24 | CR20 | DS1 | J2 | K2 | M1 | P1 | Q7 |
| R36                            | SI  | T7   |     |    |    |    |    |    |
| REFERENCE DESIGNATIONS OMITTED |     |      |     |    |    |    |    |    |
| R14                            |     |      |     |    |    |    |    |    |
- SI SHOWN IN BUSY STATE.
  - STRAP 1 TO 2 FOR ABSENCE OF GROUND SEARCHING. STRAP 2 TO 3 FOR BATTERY SEARCHING.
  - TO BYPASS TIP & RING ON THE BUSY SWITCH STRAP T-T AND R-R.

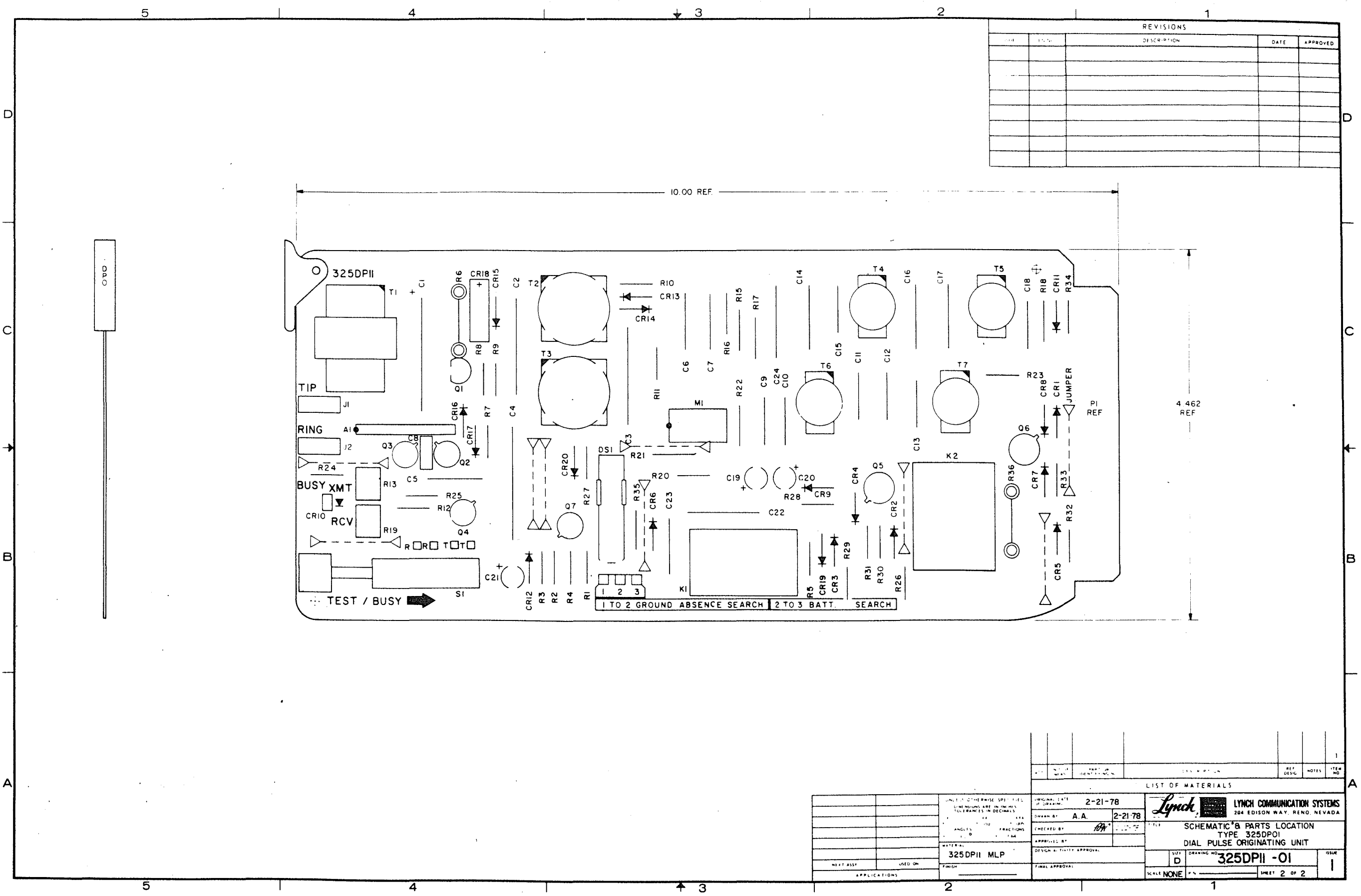
| QTY               | UNIT OF MEAS | PART OR IDENTIFYING NO | DESCRIPTION | REF. DESIG. | NOTES | ITEM NO. |
|-------------------|--------------|------------------------|-------------|-------------|-------|----------|
| LIST OF MATERIALS |              |                        |             |             |       |          |
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| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES IN DECIMALS | ORIGINAL DATE OF DRAWING | 20 JAN 78  |
|  | DRAWN BY                 | 20JANT8    |
|  | CHECKED BY               | AV 1-29-78 |
|  | APPROVED BY              |            |
|  | DESIGN ACTIVITY APPROVAL |            |
|  | FINAL APPROVAL           |            |
| MATERIAL   | 325DP11 MLP              |            |
| SCALE  | NONE                     |            |
| SHEET  | 1 OF 2                   |            |

LYNCH COMMUNICATION SYSTEMS  
204 EDISON WAY, RENO, NEVADA

TITLE  
SCHEMATIC & PARTS LOCATION  
TYPE 325DP11  
DIAL PULSE ORIGINATING UNIT

SIZE D DRAWING NO 325DP11-01  
SCALE: NONE SHEET 1 OF 2



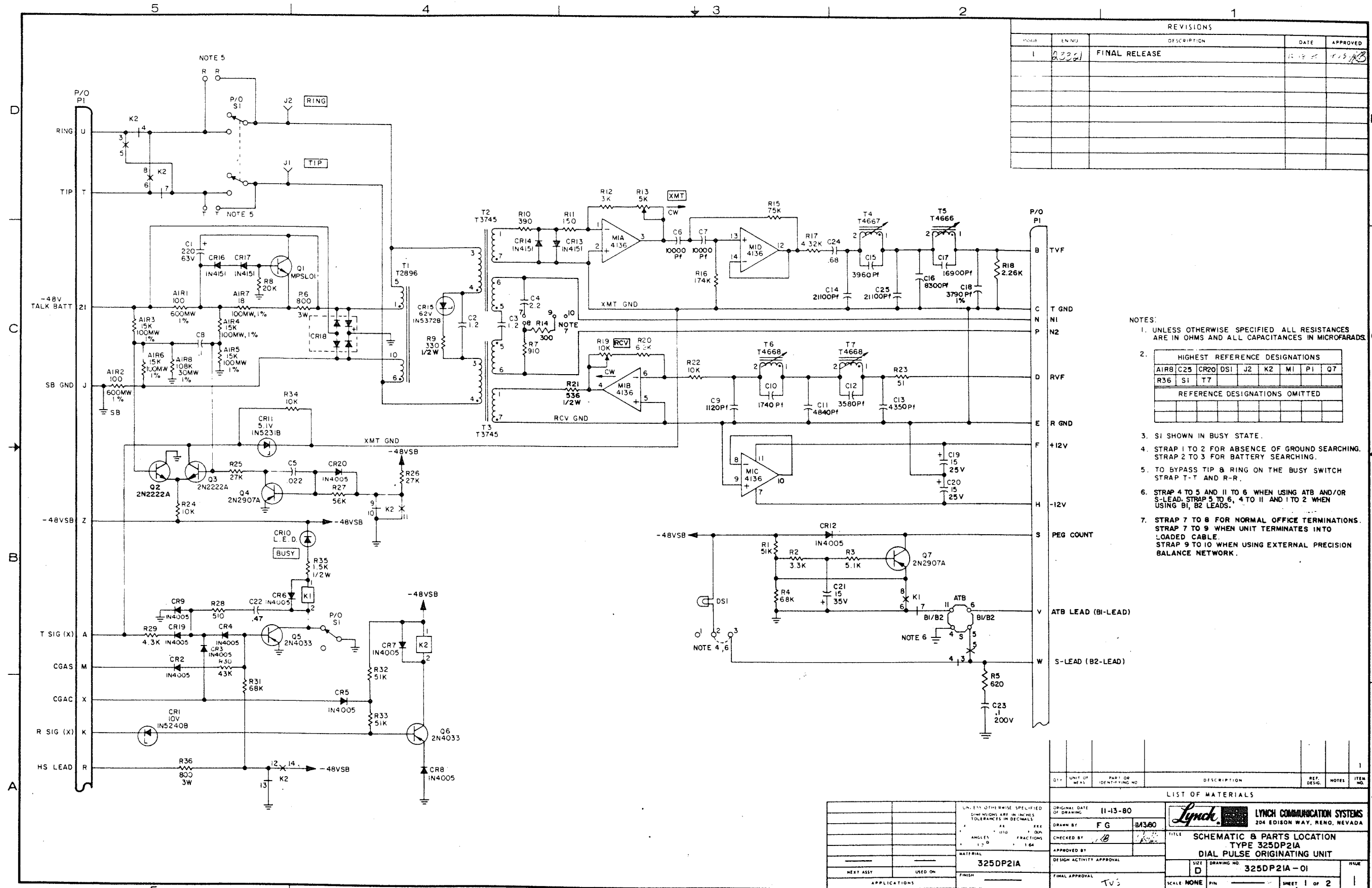
| REVISIONS |      |             |      |          |
|-----------|------|-------------|------|----------|
| NO.       | DATE | DESCRIPTION | DATE | APPROVED |
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| LIST OF MATERIALS |      |             |             |          |
|-------------------|------|-------------|-------------|----------|
| QTY               | UNIT | DESCRIPTION | REF. DESIG. | ITEM NO. |
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|             |             |
|-------------|-------------|
| DATE        | 2-21-78     |
| DESIGNED BY | A. A.       |
| CHECKED BY  |             |
| APPROVED BY |             |
| MATERIAL    | 325DP11 MLP |
| FINISH      |             |
| SCALE       | NONE        |

**Lynch** LYNCH COMMUNICATION SYSTEMS  
 204 EDISON WAY, RENO, NEVADA  
 SCHEMATIC & PARTS LOCATION  
 TYPE 325DP11  
 DIAL PULSE ORIGINATING UNIT  
 DRAWING NO. **325DP11 -01**  
 SHEET 2 OF 2



| REVISIONS |         |               |          |          |
|-----------|---------|---------------|----------|----------|
| NO.       | EN. NO. | DESCRIPTION   | DATE     | APPROVED |
| 1         | 2321    | FINAL RELEASE | 12-12-60 | T.V.S.   |
|           |         |               |          |          |
|           |         |               |          |          |
|           |         |               |          |          |
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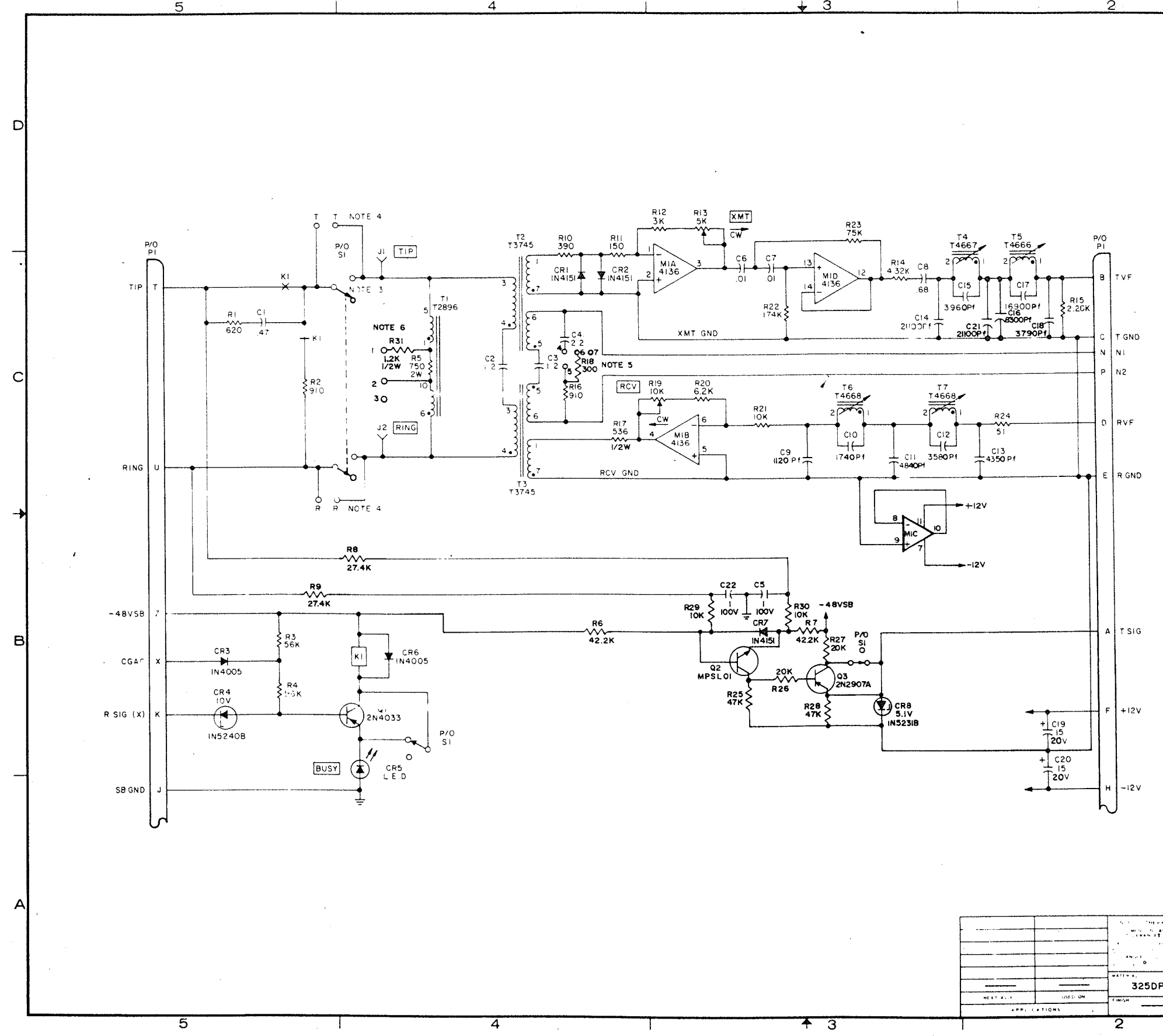
- NOTES:
- UNLESS OTHERWISE SPECIFIED ALL RESISTANCES ARE IN OHMS AND ALL CAPACITANCES IN MICROFARADS.
  - | HIGHEST REFERENCE DESIGNATIONS |     |      |     |    |    |    |    |    |  |
|--------------------------------|-----|------|-----|----|----|----|----|----|--|
| AIR8                           | C25 | CR20 | DS1 | J2 | K2 | M1 | P1 | Q7 |  |
| R36                            | S1  | T7   |     |    |    |    |    |    |  |
| REFERENCE DESIGNATIONS OMITTED |     |      |     |    |    |    |    |    |  |
|                                |     |      |     |    |    |    |    |    |  |
  - SI SHOWN IN BUSY STATE.
  - STRAP 1 TO 2 FOR ABSENCE OF GROUND SEARCHING. STRAP 2 TO 3 FOR BATTERY SEARCHING.
  - TO BYPASS TIP & RING ON THE BUSY SWITCH STRAP T-T AND R-R.
  - STRAP 4 TO 5 AND 11 TO 6 WHEN USING ATB AND/OR S-LEAD. STRAP 5 TO 6, 4 TO 11 AND 1 TO 2 WHEN USING B1, B2 LEADS.
  - STRAP 7 TO 8 FOR NORMAL OFFICE TERMINATIONS. STRAP 7 TO 9 WHEN UNIT TERMINATES INTO LOADED CABLE. STRAP 9 TO 10 WHEN USING EXTERNAL PRECISION BALANCE NETWORK.

| QTY | UNIT OF MEAS. | PART OR IDENTIFYING NO. | DESCRIPTION | REF. DESIG. | NOTES | ITEM NO. |
|-----|---------------|-------------------------|-------------|-------------|-------|----------|
|     |               |                         |             |             |       |          |
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|     |               |                         |             |             |       |          |

|   |  |
|---|--|
| ORIGINAL DATE OF DRAWING: 11-13-60<br>DRAWN BY: FG<br>CHECKED BY: AB<br>APPROVED BY: T.V.S.<br>DESIGN ACTIVITY APPROVAL: T.V.S. | <b>Lynch</b> LYNCH COMMUNICATION SYSTEMS<br>204 EDISON WAY, RENO, NEVADA<br>TITLE: SCHEMATIC & PARTS LOCATION<br>TYPE 325DP21A<br>DIAL PULSE ORIGINATING UNIT<br>DRAWING NO: 325DP21A-01<br>SHEET 1 OF 2 |
|---|--|



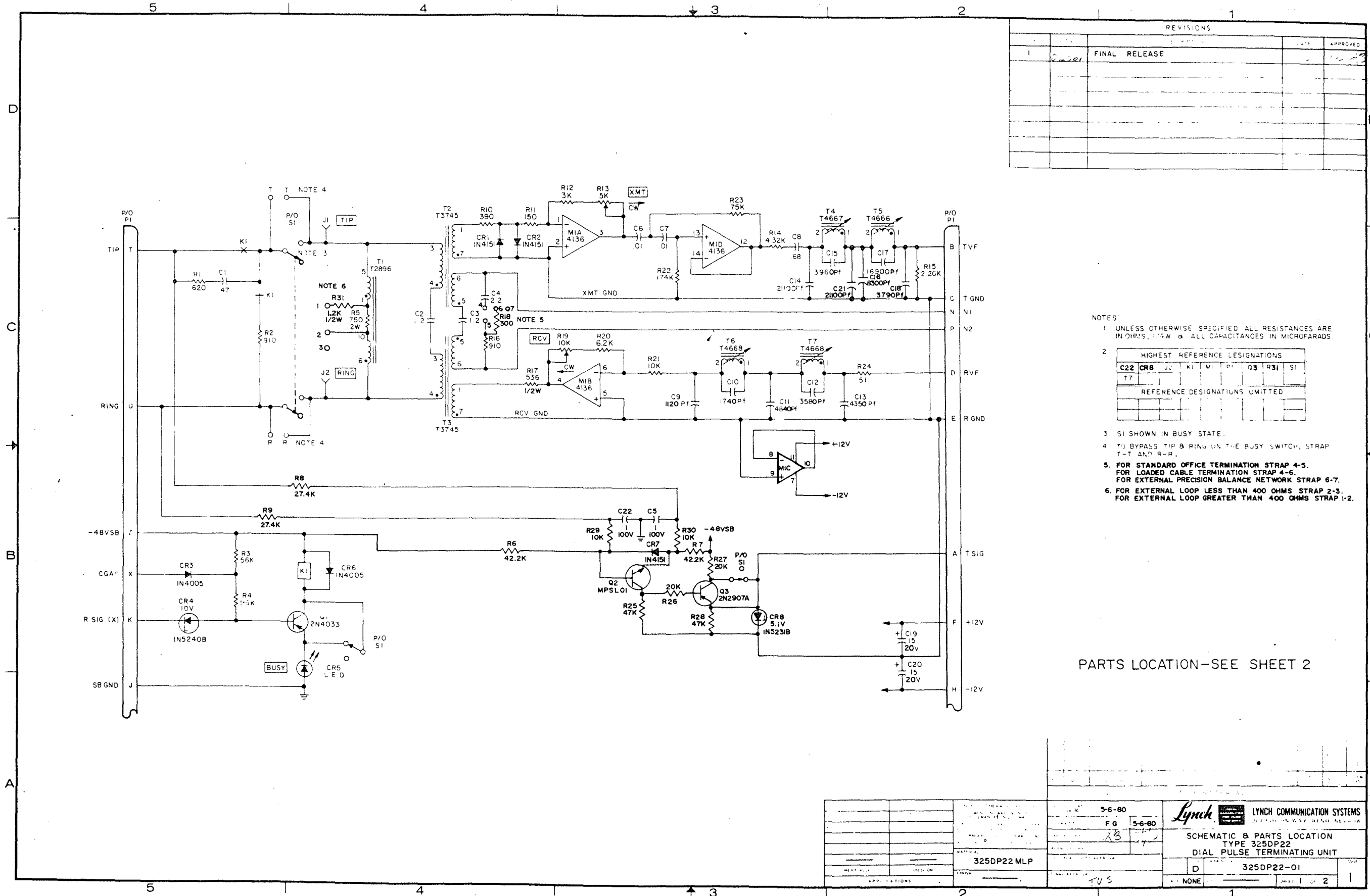
| REVISIONS |               |      |          |
|-----------|---------------|------|----------|
| NO.       | DESCRIPTION   | DATE | APPROVED |
| 1         | FINAL RELEASE |      |          |
|           |               |      |          |
|           |               |      |          |
|           |               |      |          |
|           |               |      |          |



- NOTES
- UNLESS OTHERWISE SPECIFIED ALL RESISTANCES ARE IN OHMS, 1/4 W. ALL CAPACITANCES IN MICROFARADS.
  - | HIGHEST REFERENCE DESIGNATIONS |     |    |    |    |    |    |     |    |  |
|--------------------------------|-----|----|----|----|----|----|-----|----|--|
| C22                            | CR8 | J2 | K1 | M1 | P1 | Q3 | R31 | S1 |  |
| T7                             |     |    |    |    |    |    |     |    |  |
| REFERENCE DESIGNATIONS OMITTED |     |    |    |    |    |    |     |    |  |
|                                |     |    |    |    |    |    |     |    |  |
  - SI SHOWN IN BUSY STATE.
  - TO BYPASS TIP B RING ON THE BUSY SWITCH, STRAP T-T AND R-R.
  - FOR STANDARD OFFICE TERMINATION STRAP 4-5.  
FOR LOADED CABLE TERMINATION STRAP 4-6.  
FOR EXTERNAL PRECISION BALANCE NETWORK STRAP 6-7.
  - FOR EXTERNAL LOOP LESS THAN 400 OHMS STRAP 2-3.  
FOR EXTERNAL LOOP GREATER THAN 400 OHMS STRAP 1-2.

PARTS LOCATION-SEE SHEET 2

|  |        |               |        |
|--|--------|---------------|--------|
| DATE   | 5-6-80 | DESIGNED BY   | FG     |
| REVISED  |        | CHECKED BY    | AB     |
| APPROVED   |        | DATE          | 5-6-80 |
| <b>325DP22 MLP</b>   |        |               |        |
| LYNCH COMMUNICATION SYSTEMS<br>SCHEMATIC & PARTS LOCATION<br>TYPE 325DP22<br>DIAL PULSE TERMINATING UNIT |        |               |        |
| PARTS LIST<br>NONE   |        | QUANTITY<br>2 |        |

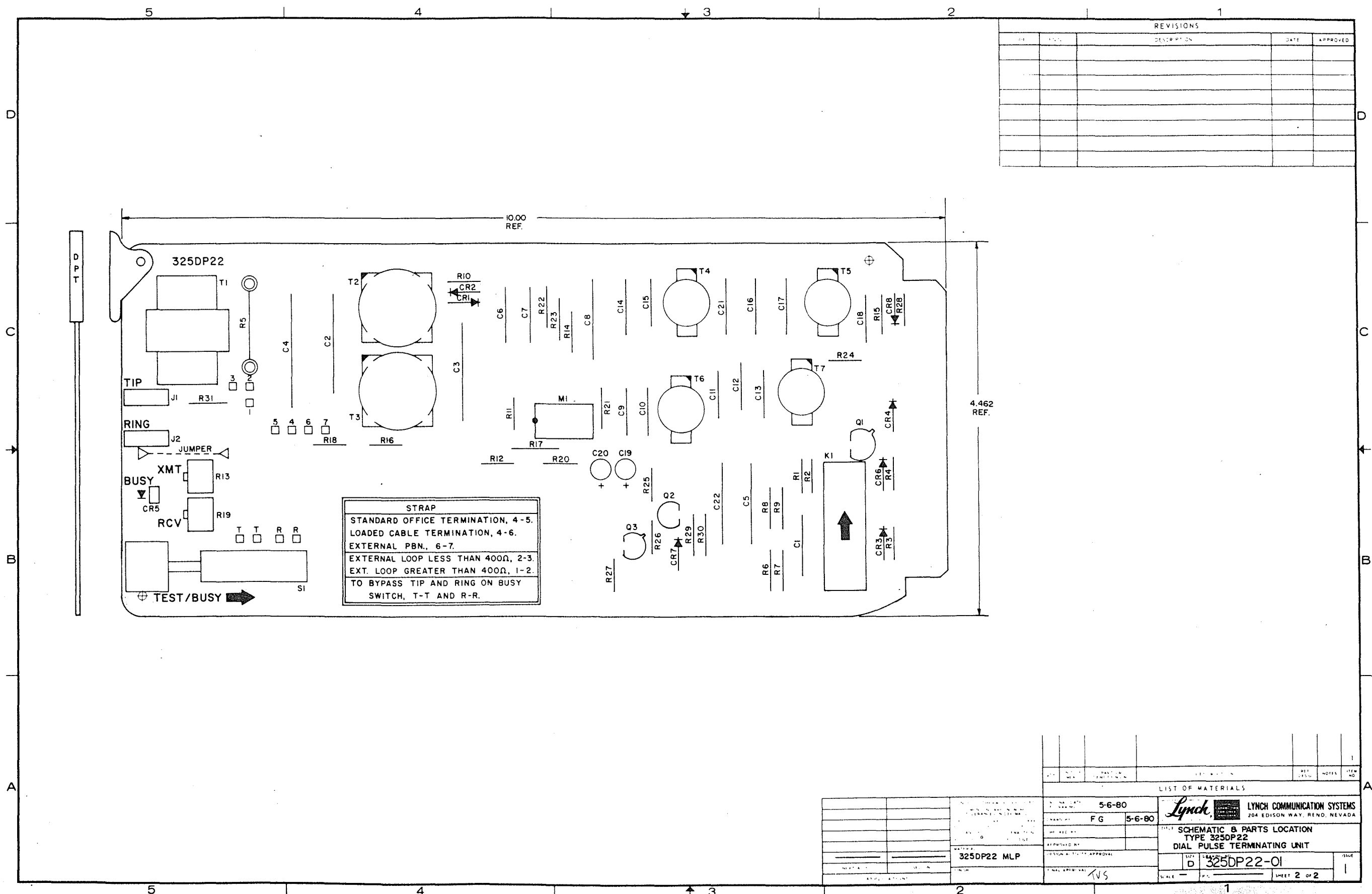


| REVISIONS |        |               |          |
|-----------|--------|---------------|----------|
| NO.       | DATE   | DESCRIPTION   | APPROVED |
| 1         | 5-6-80 | FINAL RELEASE |          |
|           |        |               |          |
|           |        |               |          |
|           |        |               |          |
|           |        |               |          |

- NOTES
- UNLESS OTHERWISE SPECIFIED ALL RESISTANCES ARE IN OHMS, 1/4W & ALL CAPACITANCES IN MICROFARADS.
  - | HIGHEST REFERENCE DESIGNATIONS |     |    |    |    |    |    |     |    |
|--------------------------------|-----|----|----|----|----|----|-----|----|
| C22                            | CR8 | J2 | K1 | M1 | P1 | Q3 | R31 | S1 |
| T7                             |     |    |    |    |    |    |     |    |
| REFERENCE DESIGNATIONS OMITTED |     |    |    |    |    |    |     |    |
|                                |     |    |    |    |    |    |     |    |
  - SI SHOWN IN BUSY STATE.
  - TO BYPASS TIP & RING ON THE BUSY SWITCH, STRAP T-T AND R-R.
  - FOR STANDARD OFFICE TERMINATION STRAP 4-5.  
FOR LOADED CABLE TERMINATION STRAP 4-6.  
FOR EXTERNAL PRECISION BALANCE NETWORK STRAP 6-7.
  - FOR EXTERNAL LOOP LESS THAN 400 OHMS STRAP 2-3.  
FOR EXTERNAL LOOP GREATER THAN 400 OHMS STRAP 1-2.

PARTS LOCATION-SEE SHEET 2

|   |        |   |    |
|---|--------|---|----|
| DATE  | 5-6-80 | REVISED   | FG |
| DESIGNED BY   | TVS    | CHECKED BY  |    |
| MATERIAL  |        |   |    |
| 325DP22 MLP   |        |   |    |
| APPLICATIONS  |        |   |    |
| TVS   |        |   |    |
| LYNCH COMMUNICATION SYSTEMS<br>1000 W. BAY BLVD. SUITE 100<br>LOS ANGELES, CALIF. 90017 |        | SCHEMATIC & PARTS LOCATION<br>TYPE 325DP22<br>DIAL PULSE TERMINATING UNIT |    |
| D   |        | 325DP22-01  |    |
| NONE  |        | 2   |    |



| REVISIONS |      |             |      |          |
|-----------|------|-------------|------|----------|
| NO.       | DATE | DESCRIPTION | DATE | APPROVED |
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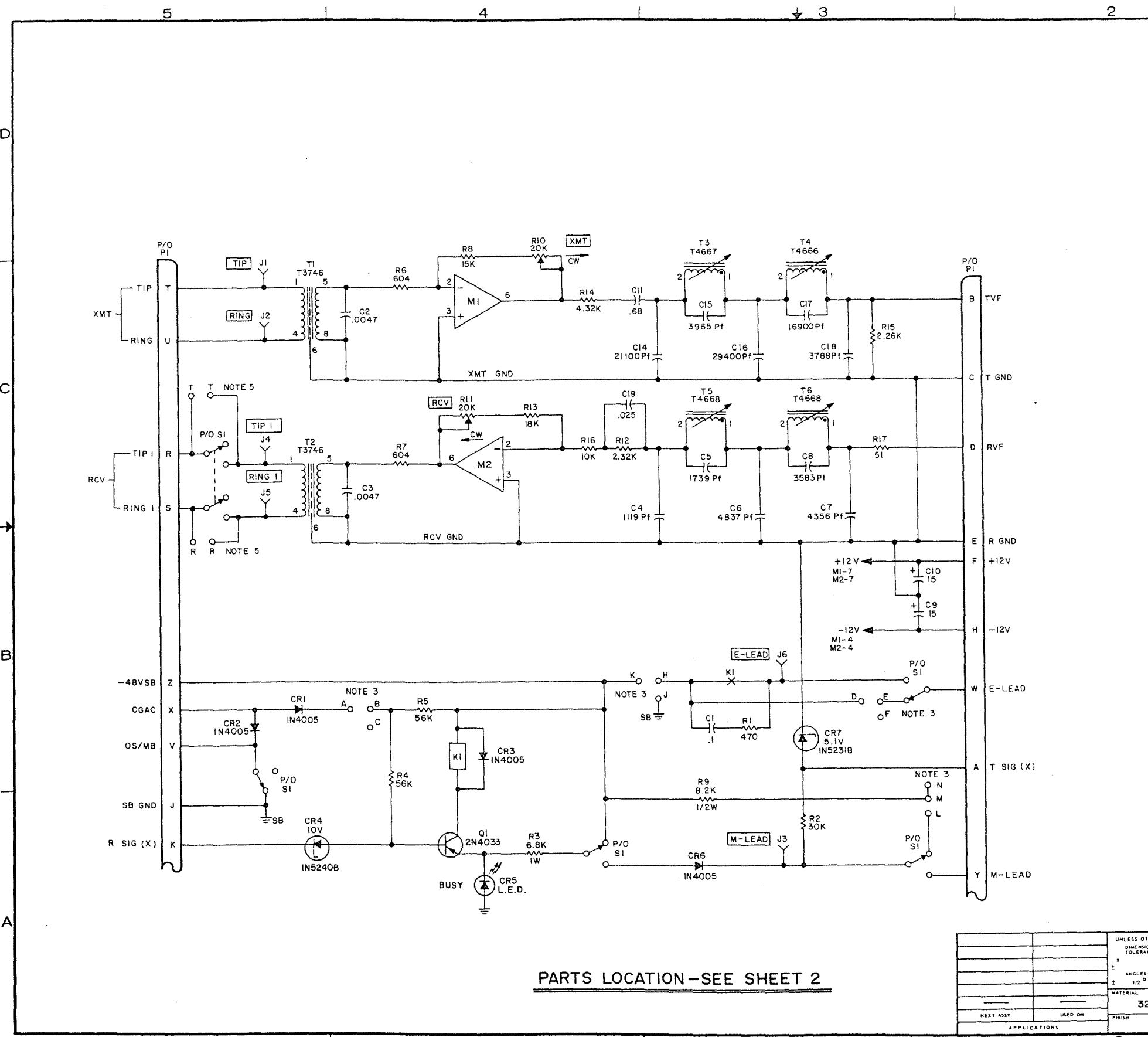
**STRAP**  
 STANDARD OFFICE TERMINATION, 4-5.  
 LOADED CABLE TERMINATION, 4-6.  
 EXTERNAL PBN., 6-7.  
 EXTERNAL LOOP LESS THAN 400Ω, 2-3.  
 EXT. LOOP GREATER THAN 400Ω, 1-2.  
 TO BYPASS TIP AND RING ON BUSY SWITCH, T-T AND R-R.

| LIST OF MATERIALS |             |          |      |          |
|-------------------|-------------|----------|------|----------|
| ITEM NO.          | DESCRIPTION | QUANTITY | UNIT | REVISION |
|                   |             |          |      |          |
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| DATE: 5-6-80 | BY: FG |
| DATE: 5-6-80 | BY: FG |
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| DATE: 5-6-80 | BY: FG |
| DATE: 5-6-80 | BY: FG |
| DATE: 5-6-80 | BY: FG |
| DATE: 5-6-80 | BY: FG |

**LYNCH COMMUNICATION SYSTEMS**  
 204 EDISON WAY, RENO, NEVADA  
**SCHEMATIC & PARTS LOCATION**  
 TYPE 325DP22  
 DIAL PULSE TERMINATING UNIT  
 325DP22-01  
 SHEET 2 OF 2

325DP22 MLP  
 VS



| REVISIONS |        |   |         |             |
|-----------|--------|---|---------|-------------|
| ISSUE     | EN NO  | DESCRIPTION                                     | DATE    | APPROVED    |
| 1         | 19244  | FINAL RELEASE                                   | 6-10-77 | [Signature] |
| 2         | 19535  | REMOVED R9 & C17 WAS .0169pF                    | 9-7-77  | [Signature] |
| 3         | 19762  | ADDED C19 & R12                                 | 12-1-77 | [Signature] |
| 4         | 19898A | ADDED R9, NOTE 5, STRAP OPTIONS L,M,N & T-T,R-R | 3-16-78 | [Signature] |

NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL RESISTANCES ARE IN OHMS, 1/4 W AND ALL CAPACITANCES IN MICROFARADS.

2. HIGHEST REFERENCE DESIGNATIONS

|     |     |    |    |    |    |    |
|-----|-----|----|----|----|----|----|
| C19 | CR7 | J6 | K1 | M2 | PI | Q1 |
| R17 | S1  | T6 |    |    |    |    |

REFERENCE DESIGNATIONS OMITTED

|     |     |  |  |  |  |  |
|-----|-----|--|--|--|--|--|
| C12 | C13 |  |  |  |  |  |
|-----|-----|--|--|--|--|--|

3. E-LEAD OPTIONS

| E & M TRUNK TYPE   | ON HOOK  | OFF HOOK     | STRAP             |
|--|--|--------------|-------------------|
|  | OPEN<br>OPEN   | GND<br>BATT. | H-J<br>H-K        |
| 1-WAY INCOMING   | "E" LEAD IS FORCED OPEN FOR ALARM DURATION.  |              | A-B<br>E-F<br>L-M |
| 1-WAY OUTGOING OR 2-WAY DIAL SERVICE CALLING PARTY CONTROL | "E" LEAD IS FORCED OPEN, T=0 GROUNDED AFTER *T SECONDS.<br>* T=10 SEC. NOM, 2 SEC. OPTIONAL STRAP OPTION IN ALARM UNIT.                                |              | B-C<br>E-D<br>M-N |
| 2-WAY OUTGOING DIAL ACCESS IN-COMING OPERATOR DIRECT.      | "E" LEAD IS FORCED OPEN AT T=0 FOR ENTIRE ALARM MB(OS) LEAD IS GROUNDED AT T=0 FOR ENTIRE ALARM TO STEP IDLE INDICATOR RELAY CHAIN CKT.                |              | A-B<br>E-F<br>M-N |
| 2-WAY SERVICE IN COMMON CONTROL OFFICE                     | "E" LEAD IS FORCED OPEN AT T=0 FOR ENTIRE ALARM. "MB" LEAD IS GROUNDED AT T=0 FOR ENTIRE ALARM TO MARK THAT TRUNK BUSY TO THE COMMON CONTROL PROCESSOR |              | A-B<br>E-F<br>M-N |

4. S1 SHOWN IN BUSY CONDITION.  
 5. STRAP T-T AND R-R FOR TIP I AND RING I BUSY SWITCH BYPASS.

PARTS LOCATION-SEE SHEET 2

| QTY | UNIT OF MEAS | PART OR IDENTIFYING NO. | DESCRIPTION | ISSUE |
|-----|--------------|-------------------------|-------------|-------|
|     |              |                         |             | 1     |

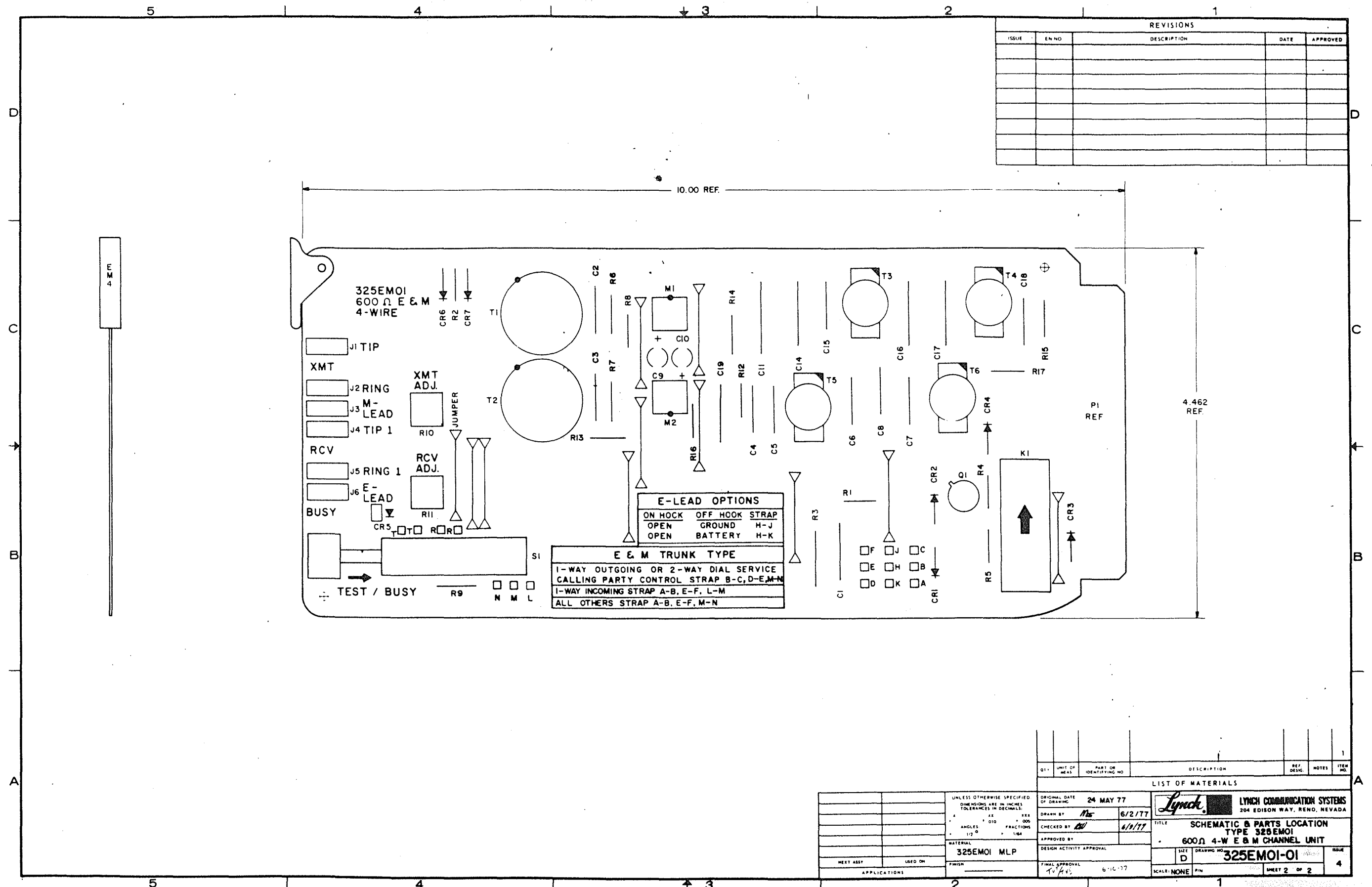
LIST OF MATERIALS

|  |                          |                       |
|--|--------------------------|-----------------------|
| UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES IN DECIMALS: | ORIGINAL DATE OF DRAWING | 24 MAY 77             |
| X .1   | DRAWN BY                 | [Signature] 24 MAY 77 |
| XX .010  | CHECKED BY               | [Signature] 6/9/77    |
| XXX .005   | APPROVED BY              | [Signature]           |
| ANGLES: 1/2°   | DESIGN ACTIVITY APPROVAL |                       |
| FRACTIONS: 1/64  | FINAL APPROVAL           | [Signature] 6-10-77   |

|          |             |
|----------|-------------|
| MATERIAL | 325EM01 MLP |
| FINISH   |             |

|                          |                       |
|--------------------------|-----------------------|
| ORIGINAL DATE OF DRAWING | 24 MAY 77             |
| DRAWN BY                 | [Signature] 24 MAY 77 |
| CHECKED BY               | [Signature] 6/9/77    |
| APPROVED BY              | [Signature]           |
| DESIGN ACTIVITY APPROVAL |                       |
| FINAL APPROVAL           | [Signature] 6-10-77   |

|                                   |                         |
|-----------------------------------|-------------------------|
| LYNCH COMMUNICATION SYSTEMS       |                         |
| 204 EDISON WAY, RENO, NEVADA      |                         |
| TITLE: SCHEMATIC & PARTS LOCATION |                         |
| TYPE: 325EM01                     |                         |
| 600Ω 4-W E & M CHANNEL UNIT       |                         |
| SIZE: D                           | DRAWING NO.: 325EM01-01 |
| SCALE: NONE                       | SHEET 1 OF 2            |



| REVISIONS |       |             |      |          |
|-----------|-------|-------------|------|----------|
| ISSUE     | EN NO | DESCRIPTION | DATE | APPROVED |
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| E-LEAD OPTIONS |          |       |
|----------------|----------|-------|
| ON HOOK        | OFF HOOK | STRAP |
| OPEN           | GROUND   | H-J   |
| OPEN           | BATTERY  | H-K   |

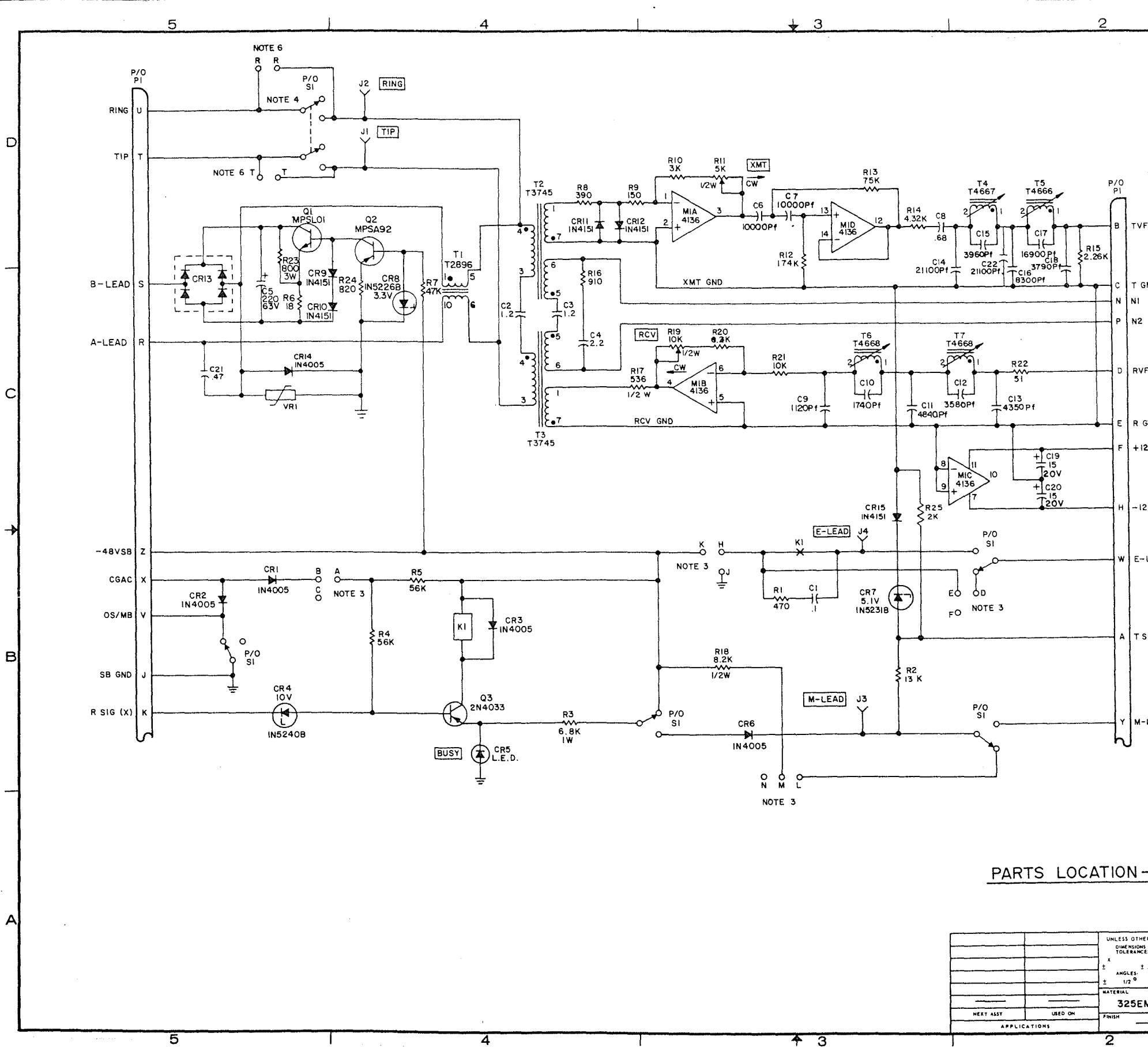
| E & M TRUNK TYPE         |   |
|--------------------------|---|
| <input type="checkbox"/> | 1-WAY OUTGOING OR 2-WAY DIAL SERVICE      |
| <input type="checkbox"/> | CALLING PARTY CONTROL STRAP B-C, D-E, M-N |
| <input type="checkbox"/> | 1-WAY INCOMING STRAP A-B, E-F, L-M        |
| <input type="checkbox"/> | ALL OTHERS STRAP A-B, E-F, M-N            |

| QTY | UNIT OF MEAS | PART OR IDENTIFYING NO | DESCRIPTION | REF. DESIG | NOTES | ITEM NO |
|-----|--------------|------------------------|-------------|------------|-------|---------|
|     |              |                        |             |            |       |         |

LIST OF MATERIALS

|  |                                       |
|--|---------------------------------------|
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES IN DECIMALS | ORIGINAL DATE OF DRAWING<br>24 MAY 77 |
| ANGLES<br>1/2° 1/4° 3/8° 1/2° 3/4° 1°  | DRAWN BY<br>MLP 6/2/77                |
| FRACTIONS<br>1/2 3/4 1 1 1/2 2 2 1/2 3 3 1/2 4                                   | CHECKED BY<br>MLP 6/9/77              |
| MATERIAL<br>325EMOI MLP  | APPROVED BY                           |
| FINISH   | DESIGN ACTIVITY APPROVAL              |
|  | FINAL APPROVAL<br>6/16/77             |

|   |                          |
|---|--------------------------|
| LYNCH COMMUNICATION SYSTEMS<br>204 EDISON WAY, RENO, NEVADA                           |                          |
| TITLE<br>SCHEMATIC & PARTS LOCATION<br>TYPE 325EMOI<br>600 Ohm 4-W E & M CHANNEL UNIT |                          |
| SIZE<br>D   | DRAWING NO<br>325EMOI-01 |
| SCALE<br>NONE   | SHEET 2 OF 2             |



| REVISIONS |       |  |         |          |
|-----------|-------|--|---------|----------|
| ISSUE     | EN NO | DESCRIPTION                              | DATE    | APPROVED |
| 1         | 19248 | FINAL RELEASE                            | 6-10-77 | AW TUS   |
| 2         | 19537 | REMOVED R18, R10 WAS 2.2K & R20 WAS 6.8K | 7-7-77  | AW TUS   |
| 3         | 19593 | REVISED OPT. 1 CIRCUITRY                 | 8-21-77 | AW TUS   |
| 4         | 19826 | Q2 WAS A MPSL51                          | 12-9-77 | AW TUS   |
| 5         | 19899 | ADD R18, STUDS L-M-N, R-R & T-T & NOTE 6 | 2-9-78  | AW TUS   |
| 6         | 21711 | REVISED CIRCUITRY                        | 2-4-80  | TUS      |

NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL RESISTANCES ARE IN OHMS, 1/4 W AND ALL CAPACITANCES IN MICROFARADS.

2. HIGHEST REFERENCE DESIGNATIONS

|     |      |    |    |    |    |    |     |    |
|-----|------|----|----|----|----|----|-----|----|
| C22 | CR15 | J4 | K1 | M1 | P1 | Q3 | R25 | S1 |
| T7  | VRI  |    |    |    |    |    |     |    |

REFERENCE DESIGNATIONS OMITTED

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3. E-LEAD OPTIONS

|      | ON HOOK | OFF HOOK | STRAP |
|------|---------|----------|-------|
| OPEN | OPEN    | GND      | H-J   |
| OPEN | OPEN    | BATT.    | H-K   |

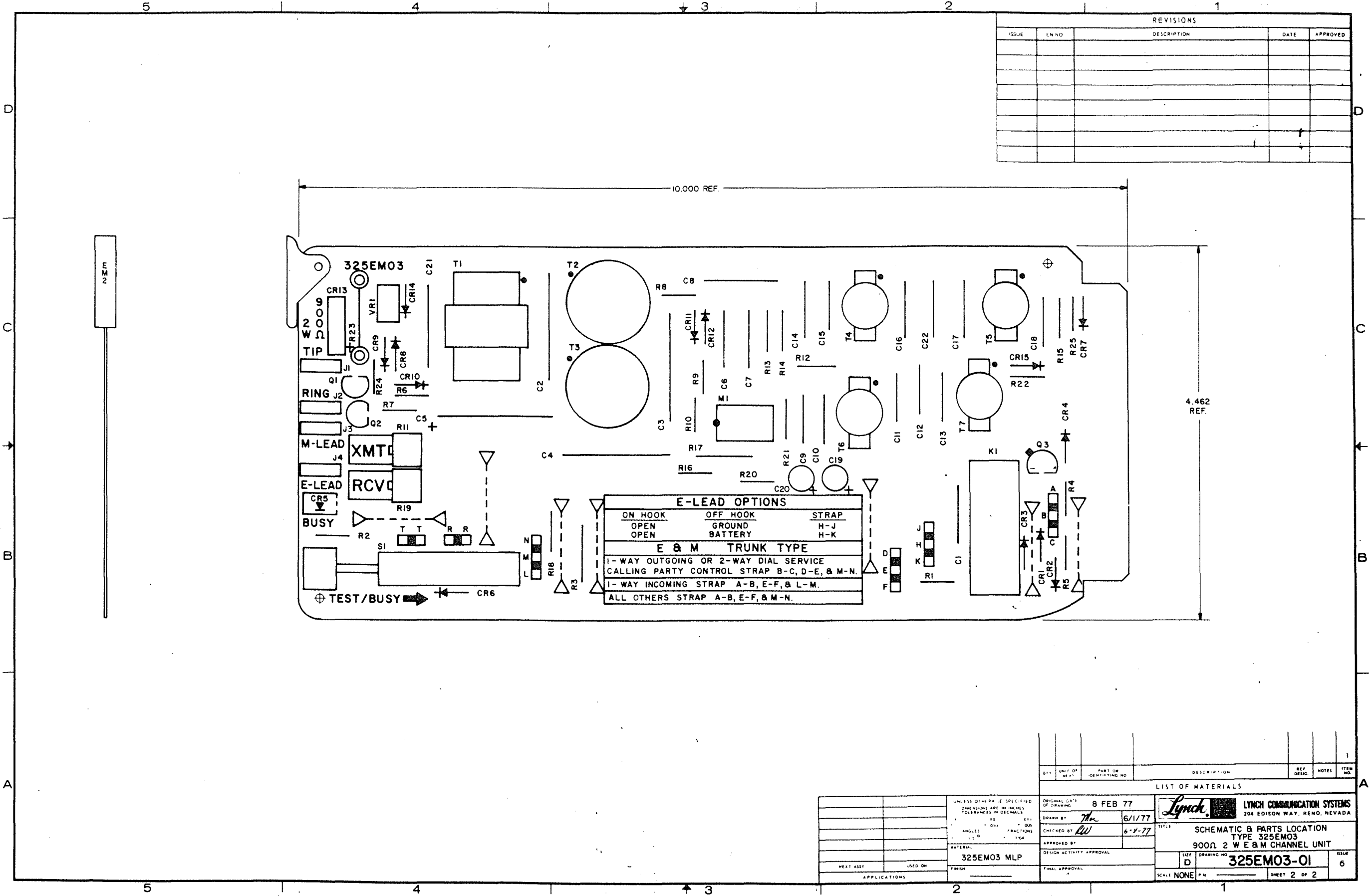
E & M TRUNK

| E & M TRUNK TYPE   |  | STRAP             |
|--|--|-------------------|
| 1-WAY INCOMING   | "E" LEAD IS FORCED OPEN FOR ALARM DURATION.  | A-B<br>E-F<br>L-M |
| 1-WAY OUTGOING OR 2-WAY DIAL SERVICE CALLING PARTY CONTROL | "E" LEAD IS FORCED OPEN, T=0 GROUNDED AFTER *T SECONDS.<br>* T=10 SEC. NOM. 2 SEC. OPTIONAL STRAP OPTION IN ALARM UNIT.                              | B-C<br>E-D<br>M-N |
| 2-WAY OUTGOING DIAL ACCESS IN-COMING OPERATOR DIRECT.      | "E" LEAD IS FORCED OPEN AT T=0 FOR ENTIRE ALARM. MB(OS) LEAD IS GROUNDED AT T=0 FOR ENTIRE ALARM TO MARK TO STEP IDLE INDICATOR RELAY CHAIN CKT.     | A-B<br>E-F<br>M-N |
| 2-WAY SERVICE IN COMMON CONTROL OFFICE                     | "E" LEAD IS FORCED OPEN AT T=0 FOR ENTIRE ALARM. MB LEAD IS GROUNDED AT T=0 FOR ENTIRE ALARM TO MARK THAT TRUNK BUSY TO THE COMMON CONTROL PROCESSOR | A-B<br>E-F<br>M-N |

4. SI SHOWN IN BUSY CONDITION.  
 5. STRAP R-R & T-T FOR TIP & RING BUSY SWITCH BYPASS.

PARTS LOCATION - SEE SHEET 2

| QTY  | UNIT OF MEAS | PART OR IDENTIFYING NO. | DESCRIPTION   | REF. DESIG. | NOTES | ITEM NO. |
|--|--------------|-------------------------|---|-------------|-------|----------|
| LIST OF MATERIALS  |              |                         |   |             |       |          |
| ORIGINAL DATE OF DRAWING: 8 FEB 77<br>DRAWN BY: [Signature] 8 FEB 77<br>CHECKED BY: [Signature] 6-9-77<br>APPROVED BY: [Signature]<br>DESIGN ACTIVITY APPROVAL: [Signature]<br>FINAL APPROVAL: [Signature] 6-10-77 |              |                         |   |             |       |          |
| UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES IN DECIMALS:<br>X .XX XXX<br>± .010 ± .005<br>ANGLES: 1/2° ± 1/24"   |              |                         | <b>Lynch</b> LYNCH COMMUNICATION SYSTEMS<br>204 EDISON WAY, RENO, NEVADA        |             |       |          |
| MATERIAL: 325EM03 MLP  |              |                         | TITLE: SCHEMATIC & PARTS LOCATION<br>TYPE: 325EM03<br>900M 2 W E&M CHANNEL UNIT |             |       |          |
| NEXT ASSY: _____ USED ON: _____ FINISH: _____ APPLICATIONS: _____  |              |                         | SEE: D DRAWING NO. 325EM03-01<br>SCALE: _____ P/N: _____ SHEET 1 OF 2           |             |       |          |



| REVISIONS |       |             |      |          |
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| QTY               | UNIT OF MEAS | PART OR IDENTIFYING NO | DESCRIPTION | REF. DESIG | NOTES | ITEM NO. |
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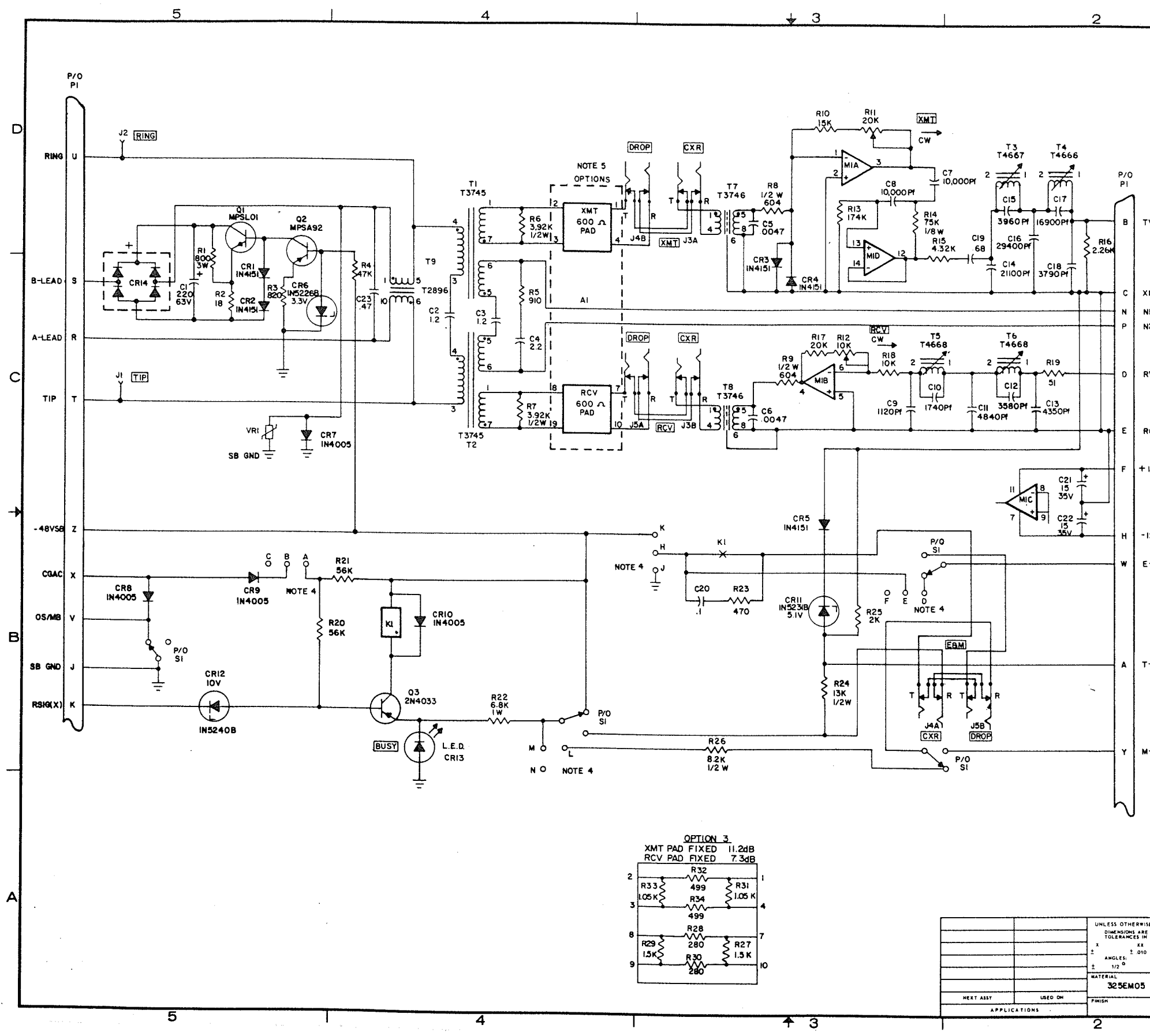
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| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES IN DECIMALS | ORIGINAL DATE OF DRAWING<br>8 FEB 77 |
| ANGLES IN DEGREES  | DRAWN BY<br>7/11/77                  |
| FRACTIONS IN 16ths   | CHECKED BY<br>6-8-77                 |
| MATERIAL<br>325EM03 MLP  | APPROVED BY                          |
| FINISH   | DESIGN ACTIVITY APPROVAL             |
| FINAL APPROVAL   |                                      |

**Lynch** LYNCH COMMUNICATION SYSTEMS  
204 EDISON WAY, RENO, NEVADA

TITLE: SCHEMATIC & PARTS LOCATION  
TYPE 325EM03  
900Ω 2 W E & M CHANNEL UNIT

SIZE: D DRAWING NO: 325EM03-01 ISSUE: 6

SCALE: NONE P/N: SHEET 2 OF 2

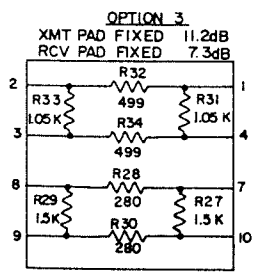
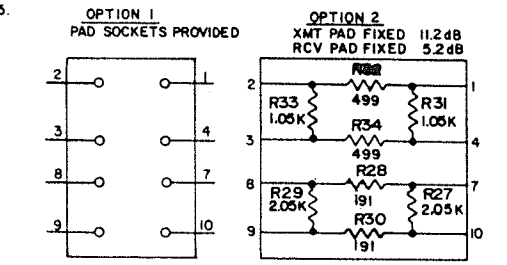


| REVISIONS |       |   |         |          |
|-----------|-------|---|---------|----------|
| ISSUE     | EN NO | DESCRIPTION   | DATE    | APPROVED |
| 1         | 20856 | FINAL RELEASE   | 9-12-78 | TVS      |
| 2         | 20856 | R32 WAS R27; R31 WAS R28; R34 WAS R29; R33 WAS R30; R28 WAS R31; R27 WAS R32; R29 WAS R34; R30 WAS R33. OPTION 3 WAS ADDED. | 3-8-79  | TVS      |
| 3         | 22563 | R10 WAS 18K AND R11 WAS 10K.  | 6-2-80  | TVS      |

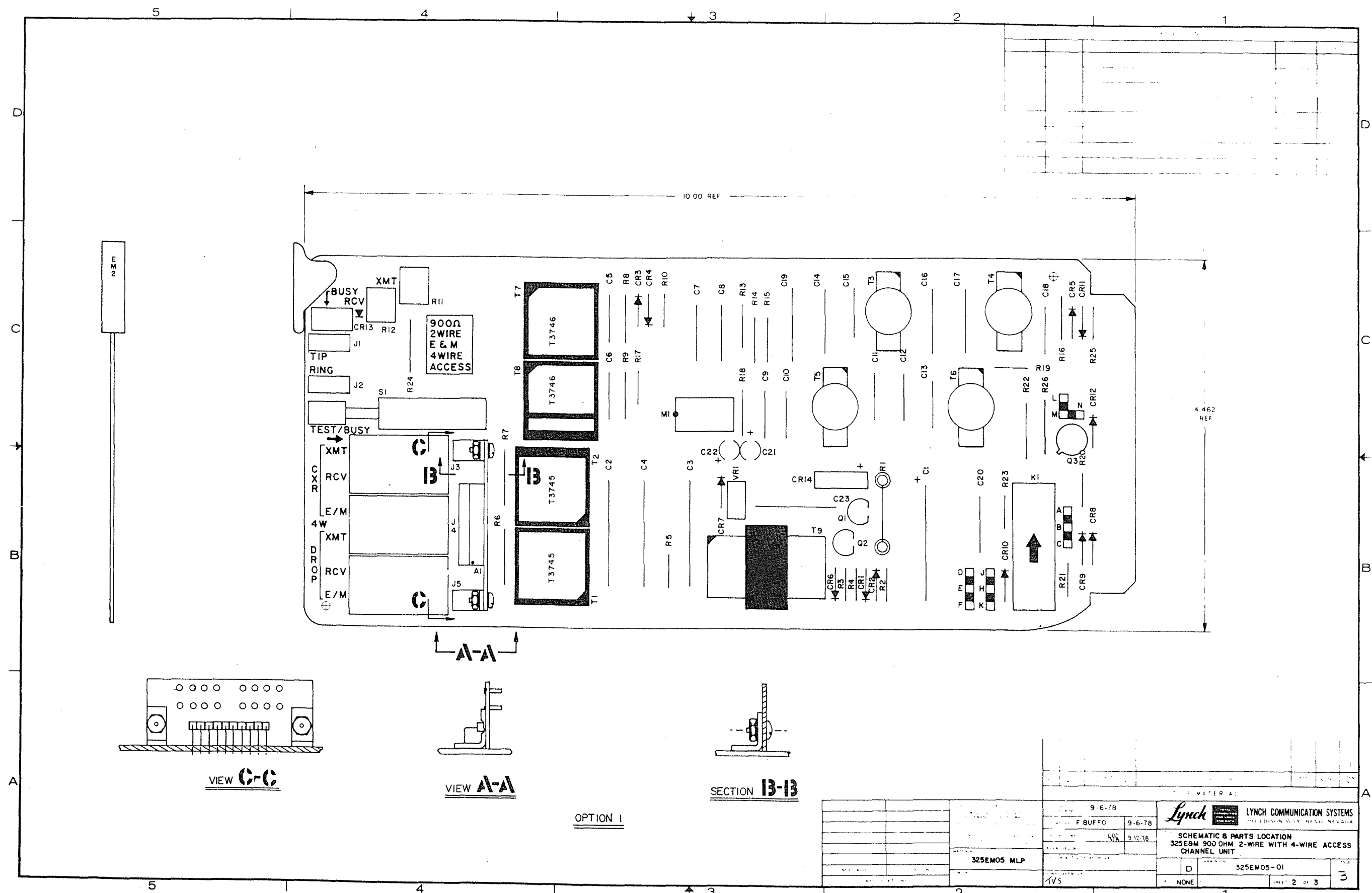
NOTES:

- UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE IN OHMS, 1/4 W AND ALL CAPACITANCES IN MICROFARADS.
- | HIGHEST REFERENCE DESIGNATIONS |      |    |    |    |    |    |     |    |  |
|--------------------------------|------|----|----|----|----|----|-----|----|--|
| C22                            | CR11 | J5 | K1 | M1 | PI | Q3 | R26 | SI |  |
| T9                             |      |    |    |    |    |    |     |    |  |
| REFERENCE DESIGNATIONS OMITTED |      |    |    |    |    |    |     |    |  |
|                                |      |    |    |    |    |    |     |    |  |
- SI SHOWN IN BUSY CONDITION.

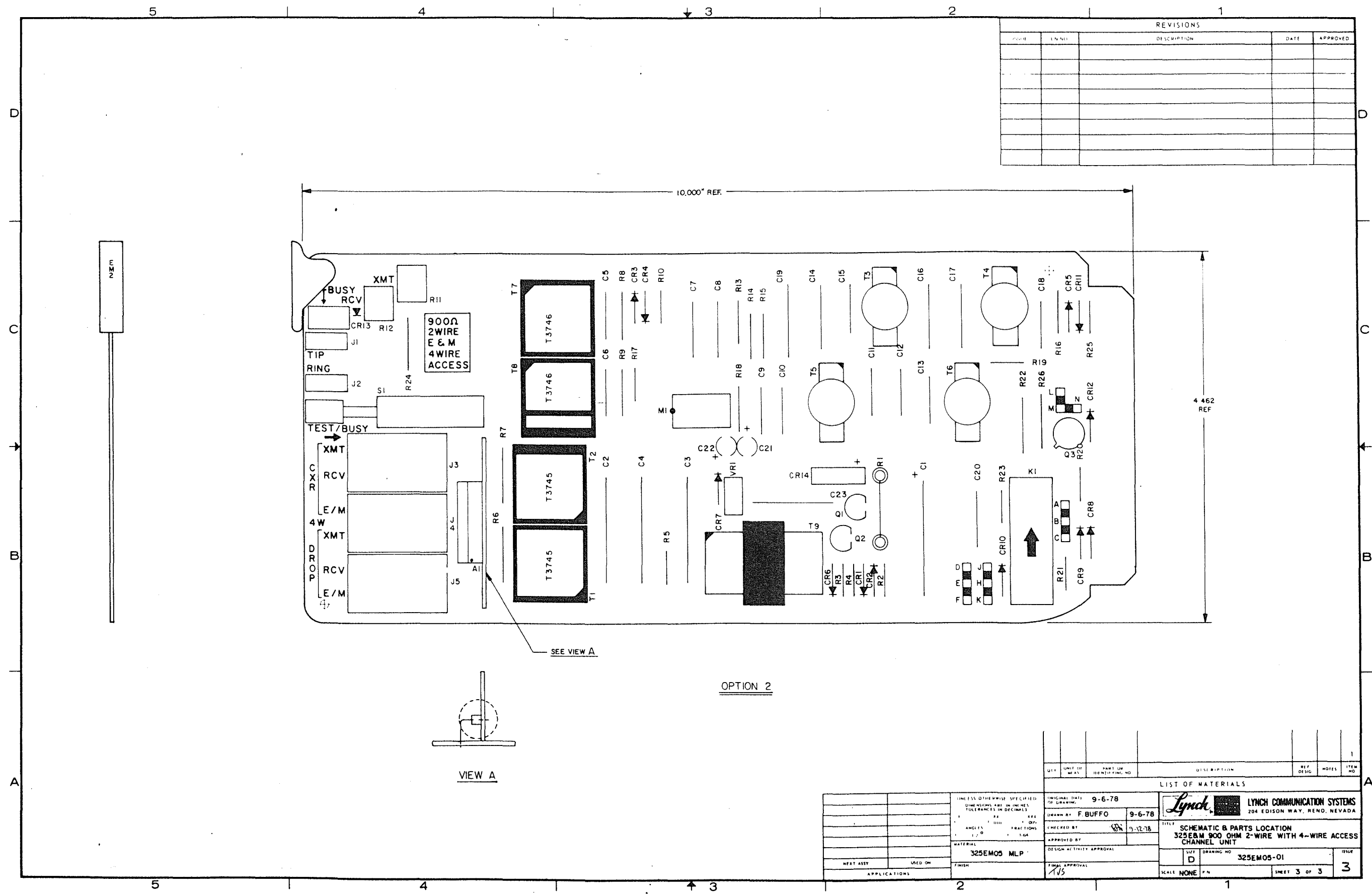
| E-LEAD OPTIONS   |          |       |
|--|----------|-------|
| ON HOOK  | OFF HOOK | STRAP |
| OPEN   | GND      | H-J   |
| OPEN   | BATT     | H-K   |
| E-LEAD ALARM (CGA) OPTIONS                                     |          | STRAP |
| IDLE FOR DURATION OF ALARM.                                    |          | A-B   |
| IDLE DURING TRUNK PROCESSING, THEN BUSY FOR DURATION OF ALARM. |          | B-C   |
| BUSY SWITCH OPTIONS  |          |       |
| FUNCTION   |          | STRAP |
| FORWARD BUSY TO FAR END  |          | M-L   |
| DOES NOT FORWARD BUSY TO FAR END                               |          | M-N   |
| OPENS E-LEAD   |          | E-F   |
| FORCES E-LEAD TO OFF HOOK STATE                                |          | E-D   |



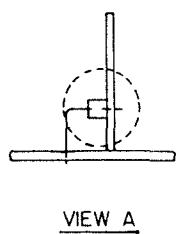
| QTY                      | UNIT OF MEAS. | PART OR IDENTIFYING NO. | DESCRIPTION   | REF. DESIGN. | NOTES | ITEM NO. |
|--------------------------|---------------|-------------------------|---|--------------|-------|----------|
| LIST OF MATERIALS        |               |                         |   |              |       |          |
| ORIGINAL DATE OF DRAWING |               |                         | 9-5-78  |              |       |          |
| DRAWN BY                 |               |                         | F.B.  | 9-5-78       |       |          |
| CHECKED BY               |               |                         |   |              |       |          |
| DESIGNED BY              |               |                         |   |              |       |          |
| DESIGN ACTIVITY APPROVAL |               |                         |   |              |       |          |
| FINAL APPROVAL           |               |                         | TVS   |              |       |          |
| MATERIAL                 |               |                         | 325EM05 MLP   |              |       |          |
| NEXT ASSY                |               |                         |   |              |       |          |
| USED ON                  |               |                         |   |              |       |          |
| FINISH                   |               |                         |   |              |       |          |
| APPLICATIONS             |               |                         |   |              |       |          |
| TITLE                    |               |                         | SCHEMATIC & PARTS LOCATION<br>325EAM 900 OHM 2-WIRE WITH 4-WIRE ACCESS CHANNEL UNIT |              |       |          |
| DRAWING NO.              |               |                         | 325EM05-01  |              |       |          |
| SCALE:                   |               |                         | SHEET 1 OF 3  |              |       |          |
| ISSUE                    |               |                         | 3   |              |       |          |



|         |        |   |            |
|---------|--------|---|------------|
| 9-6-78  |        | Lynch COMMUNICATION SYSTEMS<br>325 E MAIN ST. RENO, NEVADA                            |            |
| F BUFFO | 9-6-78 | SCHEMATIC & PARTS LOCATION<br>325EM 900 OHM 2-WIRE WITH 4-WIRE ACCESS<br>CHANNEL UNIT |            |
| 9-12-78 |        | D   | 325EM05-01 |
|         |        | NONE  | 2 OF 3     |



| REVISIONS |      |             |      |          |
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| NO.       | DATE | DESCRIPTION | DATE | APPROVED |
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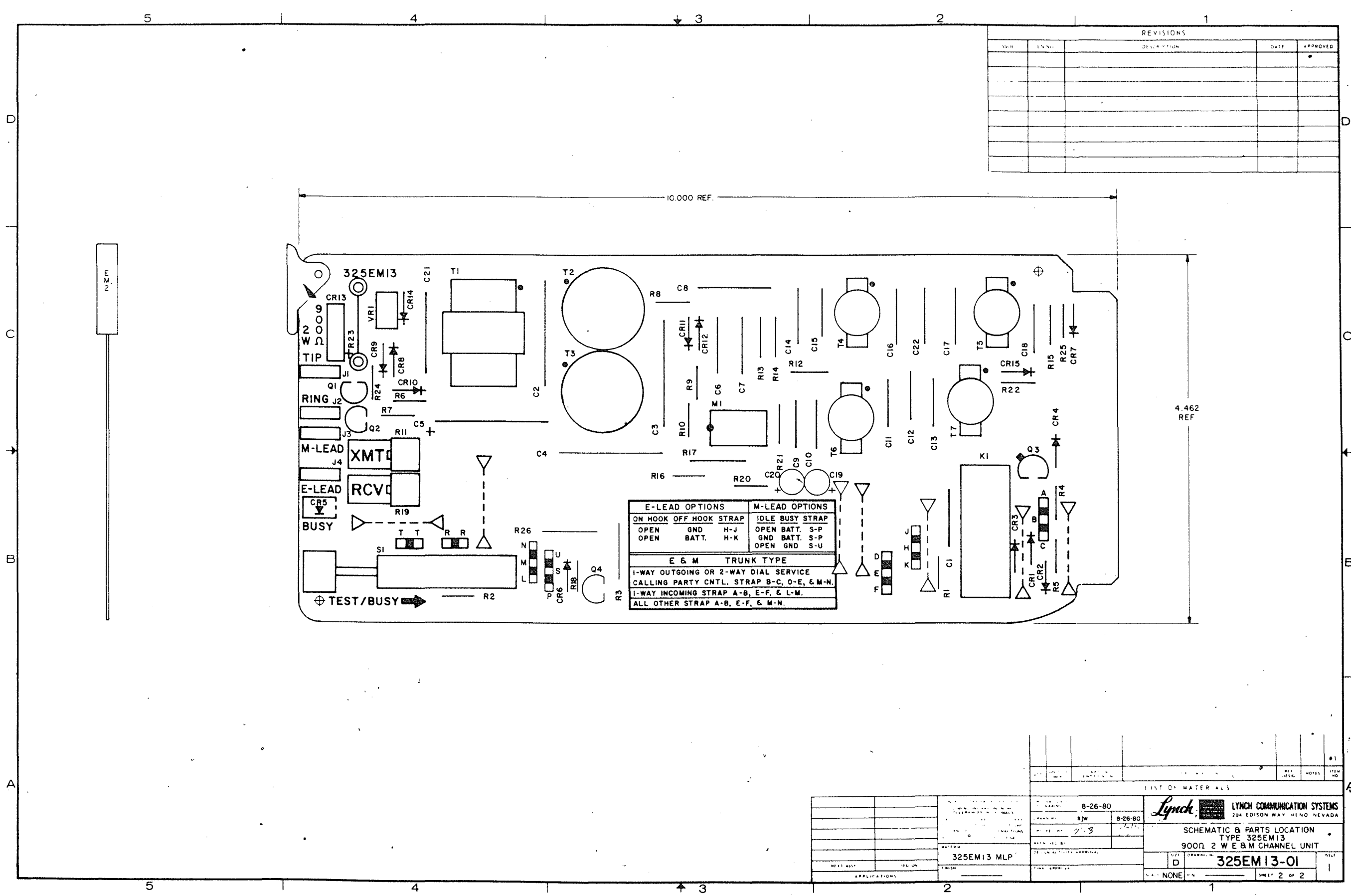
OPTION 2

| QTY | UNIT OF MEAS. | PART OR IDENTIFYING NO. | DESCRIPTION | REF. DESIG. | NOTES | ITEM NO. |
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|---|--|
| ORIGINAL DATE: 9-6-78<br>DRAWN BY: F. BUFFO 9-6-78<br>CHECKED BY: [Signature] 9-12-78<br>APPROVED BY: [Signature]<br>DESIGN ACTIVITY APPROVAL: [Signature]<br>FINAL APPROVAL: [Signature] | <b>LIST OF MATERIALS</b><br>LYNCH COMMUNICATION SYSTEMS<br>204 EDISON WAY, RENO, NEVADA<br>TITLE: SCHEMATIC & PARTS LOCATION<br>325E&M 900 OHM 2-WIRE WITH 4-WIRE ACCESS CHANNEL UNIT<br>SIZE: D DRAWING NO: 325EM05-01<br>SCALE: NONE P.N. SHEET 3 OF 3 |
|---|--|





| REVISIONS |    |      |             |          |
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| NO.       | BY | DATE | DESCRIPTION | APPROVED |
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| E-LEAD OPTIONS                             |          | M-LEAD OPTIONS |                 |
|--|----------|----------------|-----------------|
| ON HOOK                                    | OFF HOOK | STRAP          | IDLE BUSY STRAP |
| OPEN                                       | GND      | H-J            | OPEN BATT. S-P  |
| OPEN                                       | BATT.    | H-K            | OPEN BATT. S-P  |
| E & M TRUNK TYPE                           |          |                |                 |
| 1-WAY OUTGOING OR 2-WAY DIAL SERVICE       |          |                |                 |
| CALLING PARTY CNTL. STRAP B-C, D-E, & M-N. |          |                |                 |
| 1-WAY INCOMING STRAP A-B, E-F, & L-M.      |          |                |                 |
| ALL OTHER STRAP A-B, E-F, & M-N.           |          |                |                 |

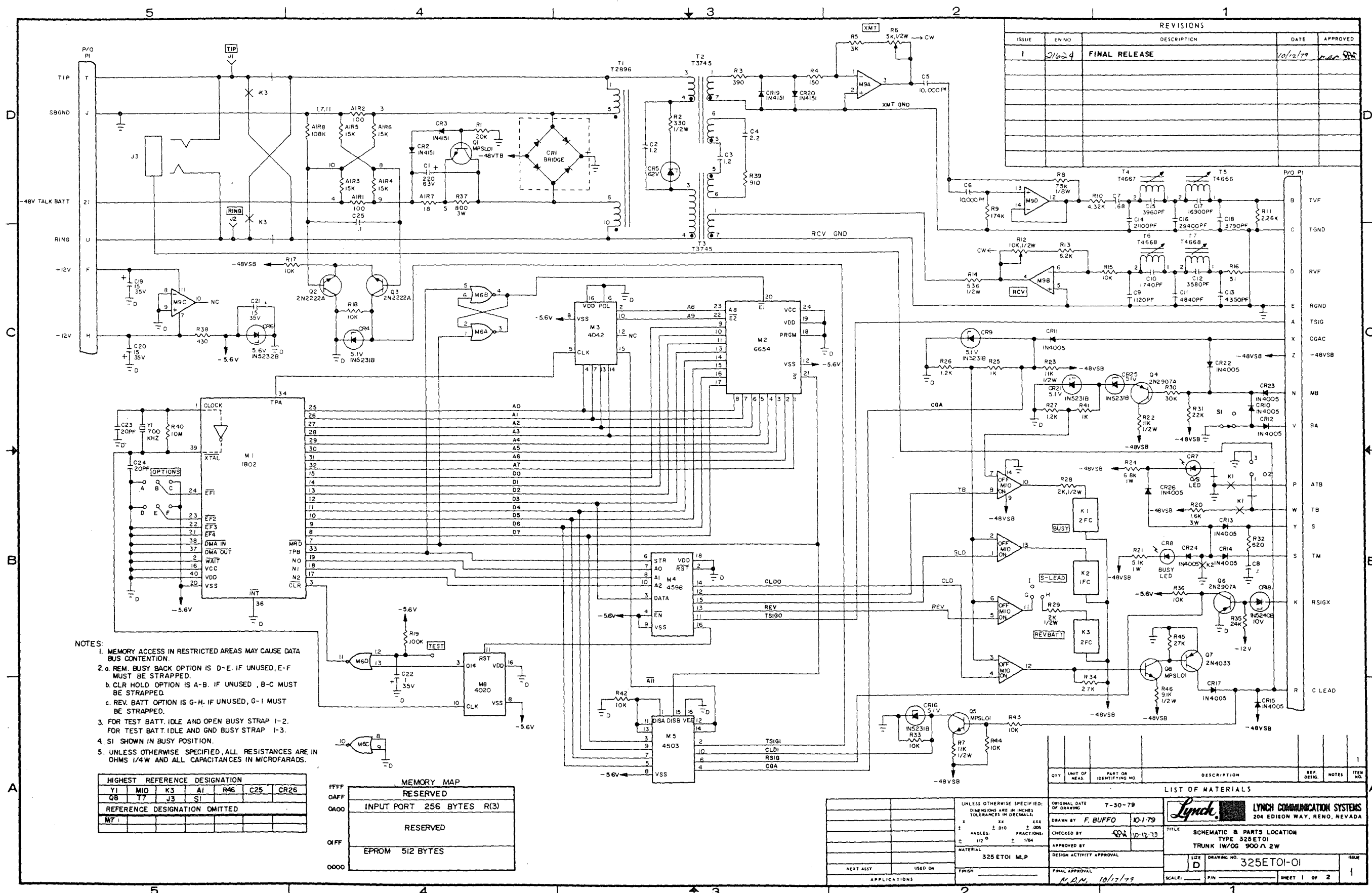
| LIST OF MATERIALS |             |     |             |       |
|-------------------|-------------|-----|-------------|-------|
| ITEM NO.          | DESCRIPTION | QTY | REF. DESIG. | NOTES |
|                   |             |     |             |       |
|                   |             |     |             |       |
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|                       |         |
|-----------------------|---------|
| DATE: 8-26-80         | BY: SJW |
| DATE: 8-26-80         | BY: 3   |
| MATERIAL: 325EM13 MLP |         |
| TEST ASSY:            | FINISH: |
| APPLICATIONS:         |         |

**Lynch** LYNCH COMMUNICATION SYSTEMS  
204 EDISON WAY HENO NEVADA

SCHEMATIC & PARTS LOCATION  
TYPE 325EM13  
900Ω 2 W E & M CHANNEL UNIT

DATE: D DRAWING: 325EM13-01  
REV: NONE SHEET 2 OF 2



| REVISIONS |       |               |          |          |
|-----------|-------|---------------|----------|----------|
| ISSUE     | EN NO | DESCRIPTION   | DATE     | APPROVED |
| 1         | 2/624 | FINAL RELEASE | 10/12/79 | N.A.M.   |

- NOTES:
- MEMORY ACCESS IN RESTRICTED AREAS MAY CAUSE DATA BUS CONTENTION.
  - REM. BUSY BACK OPTION IS D-E. IF UNUSED, E-F MUST BE STRAPPED.
  - CLR HOLD OPTION IS A-B. IF UNUSED, B-C MUST BE STRAPPED.
  - REV. BATT. OPTION IS G-H. IF UNUSED, G-I MUST BE STRAPPED.
  - FOR TEST BATT. IDLE AND OPEN BUSY STRAP 1-2. FOR TEST BATT. IDLE AND GND BUSY STRAP 1-3.
  - SI SHOWN IN BUSY POSITION.
  - UNLESS OTHERWISE SPECIFIED, ALL RESISTANCES ARE IN OHMS 1/4W AND ALL CAPACITANCES IN MICROFARADS.

| HIGHEST                       | REFERENCE | DESIGNATION        |
|-------------------------------|-----------|--------------------|
| Y1                            | M10       | K3 A1 R46 C25 CR26 |
| Q8                            | T7        | J3 S1              |
| REFERENCE DESIGNATION OMITTED |           |                    |
| M7                            |           |                    |

| MEMORY MAP |                           |
|------------|---------------------------|
| FFFF       | RESERVED                  |
| 0A00       | INPUT PORT 256 BYTES R(3) |
|            | RESERVED                  |
| 01FF       | EPROM 512 BYTES           |
| 0000       |                           |

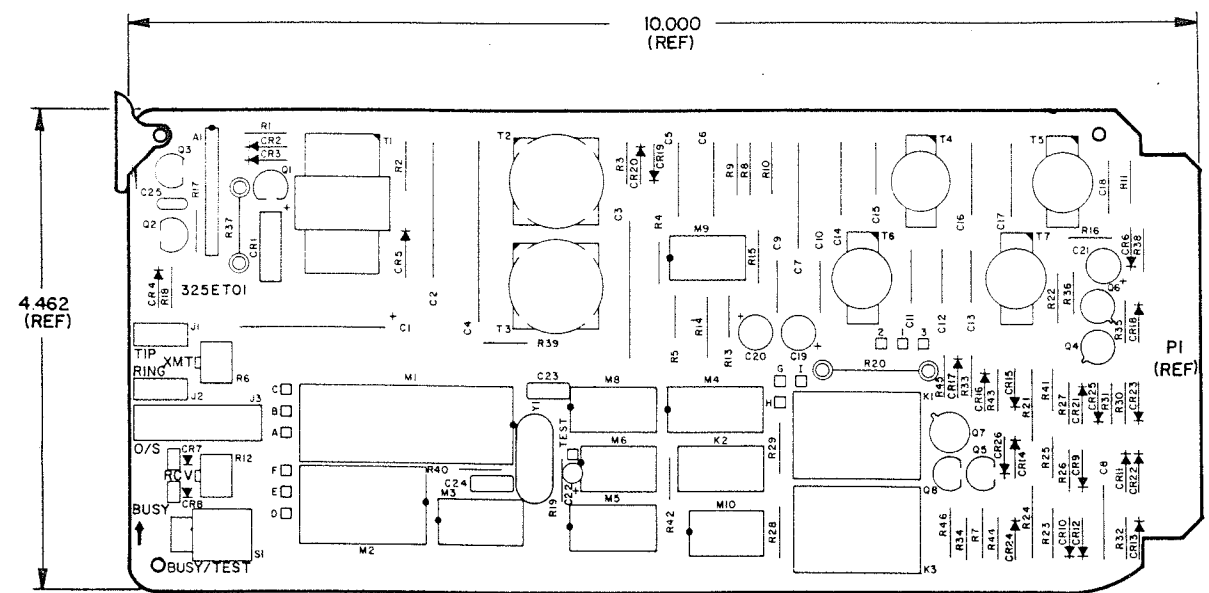
| QTY  | UNIT OF MEAS. | PART OR IDENTIFYING NO. | DESCRIPTION              | REF. DESIG. | NOTES | ITEM NO. |
|--|---------------|-------------------------|--------------------------|-------------|-------|----------|
| LIST OF MATERIALS  |               |                         |                          |             |       |          |
| UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES IN DECIMALS. |               |                         | ORIGINAL DATE OF DRAWING | 7-30-79     |       |          |
| DRAWN BY F. BUFFO  |               |                         | 10-1-79                  |             |       |          |
| CHECKED BY   |               |                         | 10-12-79                 |             |       |          |
| APPROVED BY  |               |                         |                          |             |       |          |
| DESIGN ACTIVITY APPROVAL   |               |                         |                          |             |       |          |
| FINAL APPROVAL   |               |                         |                          |             |       |          |
| MATERIAL   |               |                         | 325 ETOI MLP             |             |       |          |
| NEXT ASSY  |               |                         | USED ON                  |             |       |          |
| FINISH   |               |                         | FINISH                   |             |       |          |
| APPLICATIONS   |               |                         | FINISH                   |             |       |          |
| SCALE:   |               |                         | SCALE:                   |             |       |          |
| P/N  |               |                         | P/N                      |             |       |          |
| SHEET 1 OF 2   |               |                         | SHEET 1 OF 2             |             |       |          |

LYNCH COMMUNICATION SYSTEMS  
204 EDISON WAY, RENO, NEVADA

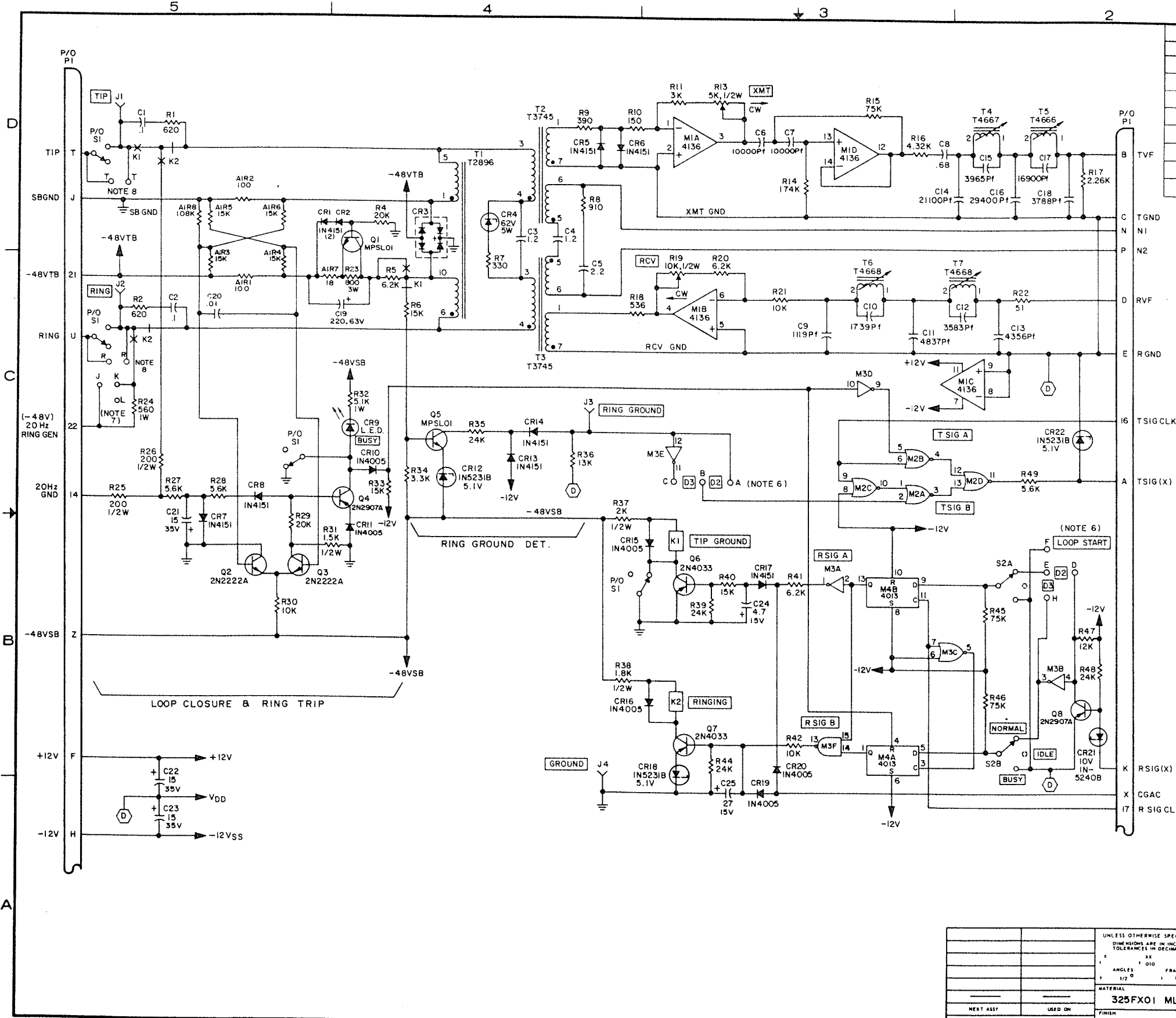
TITLE: SCHEMATIC & PARTS LOCATION  
TYPE: 325 ETOI  
TRUNK 1W/OG 900A 2W

SIZE: D DRAWING NO: 325 ETOI-01  
SCALE: P/N

| REVISIONS |        |         |             |      |          |
|-----------|--------|---------|-------------|------|----------|
| ISSUE     | EN NO. | CHG. BY | DESCRIPTION | DATE | APPROVED |
|           |        |         |             |      |          |



|   |         |                                     |   |  |
|---|---------|-------------------------------------|---|--|
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES IN DECIMALS<br>X XX XXX<br>: .010 :.005<br>ANGLES FRACTIONS<br>1:20 1:64 |         | ORIGINAL DATE OF DRAWING<br>10-3-79 | <b>Lynch COMMUNICATION SYSTEMS INC.</b><br>704 Edison Way Reno, Nevada 89502 (702) 786 4020 |  |
| 325ETOI-02  | 325ETOI | DRAWN BY<br>F.B.                    | DATE<br>10-3-79   | TITLE<br>SCHEMATIC & PARTS LOCATION<br>TYPE 325ETOI<br>TRUNK IW/OG 900Ω 2W |
| NEXT ASSY   | USED ON | CHECK BY<br>CDX                     | DATE<br>10-9-79   | DRAWING NO.<br>325ETOI-01  |
| APPLICATIONS  |         | MATERIAL<br>325ETOI MLP             | DESIGN ACTIVITY APPROVAL  | ISSUE<br>1   |
| FINISH  |         | FINAL APPROVAL                      | SCALE<br>NONE   | P/N<br>SHEET 2 OF 2  |



| REVISIONS |       |                                    |         |             |
|-----------|-------|------------------------------------|---------|-------------|
| ISSUE     | EN NO | DESCRIPTION                        | DATE    | APPROVED    |
| 1         | 19496 | FINAL RELEASE                      | 8-19-77 | [Signature] |
| 2         | 19545 | REMOVED R12 & R11 WAS 2.2K         | 7-15-77 | [Signature] |
| 3         | 19901 | REMOVED R3, ADDED STRAPPING NOTE 8 | 2-1-78  | [Signature] |

NOTES:

- UNLESS OTHERWISE SPECIFIED ALL RESISTANCES ARE IN OHMS, 1/4W AND ALL CAPACITANCES ARE IN MICROFARADS.
- HIGHEST REFERENCE DESIGNATIONS

|      |     |      |    |    |    |    |
|------|-----|------|----|----|----|----|
| AIRB | C25 | CR22 | J4 | K2 | M4 | P1 |
| Q8   | R49 | S2   | T7 |    |    |    |

REFERENCE DESIGNATIONS OMITTED

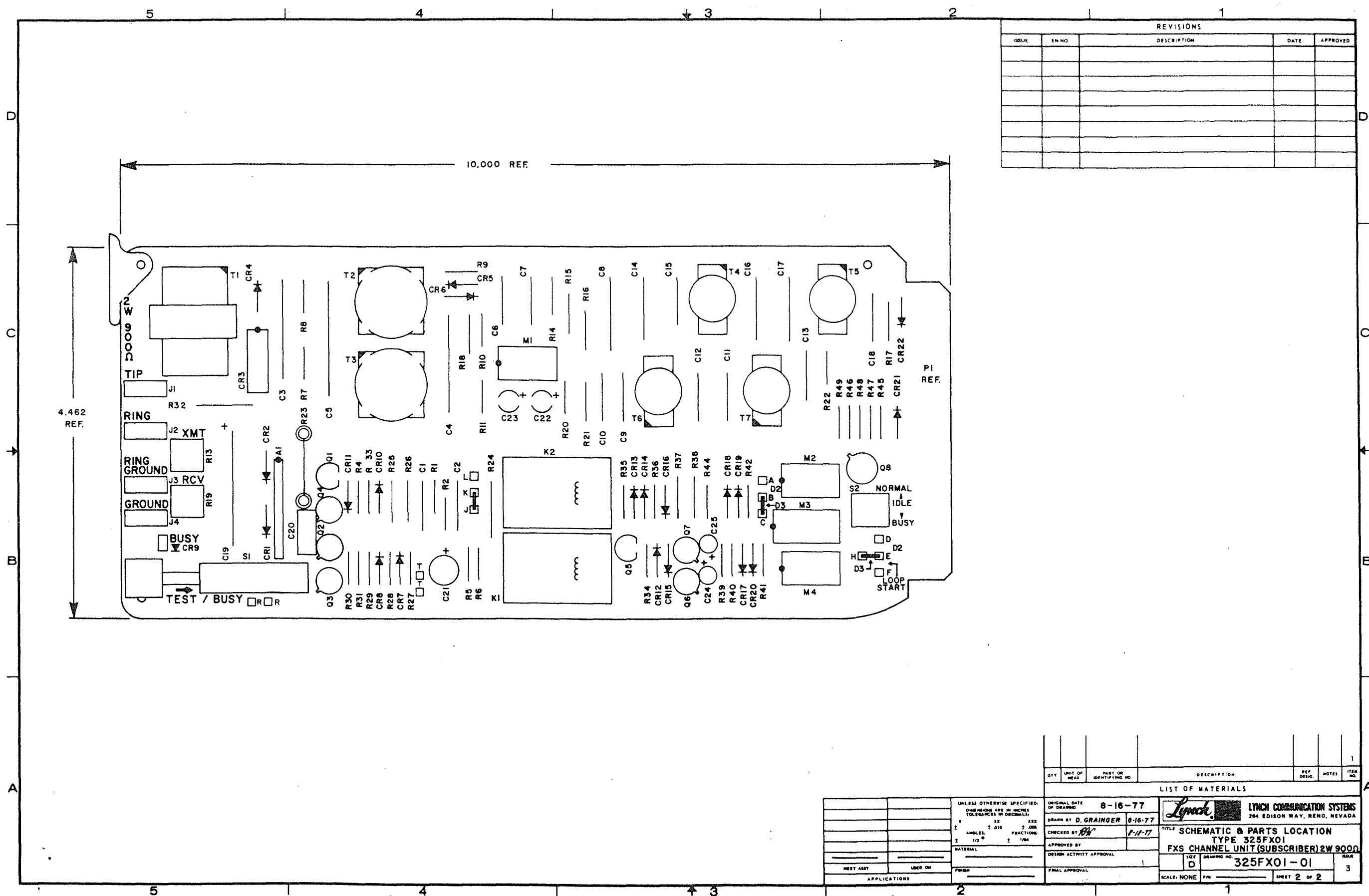
|     |     |    |  |  |  |
|-----|-----|----|--|--|--|
| R43 | R12 | R3 |  |  |  |
|-----|-----|----|--|--|--|

- S1 SHOWN IN BUSY CONDITION.
- S2 SHOWN IN NORMAL CONDITION.
- K1 AND K2 SHOWN IN IDLE CONDITION.
- FOR GROUND START STRAP:  
B TO A AND E TO D FOR D2  
B TO C AND E TO H FOR D3
- FOR LOOP START STRAP:  
B TO A AND E TO F FOR D2  
B TO C AND E TO F FOR D3
- CONNECT J TO K FOR LOOPS LONGER THAN 600Ω.  
CONNECT K TO L FOR LOOPS LESS THAN 600Ω.
- STRAP T-T AND R-R FOR TIP AND RING BUSY SWITCH BYPASS.

| QTY               | UNIT OF MEAS | PART OR IDENTIFYING NO | DESCRIPTION | REF DESIG | NOTES | ITEM NO |
|-------------------|--------------|------------------------|-------------|-----------|-------|---------|
| LIST OF MATERIALS |              |                        |             |           |       |         |
|                   |              |                        |             |           |       |         |
|                   |              |                        |             |           |       |         |

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|---|--------------------------------|
| UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES IN DECIMALS | ORIGINAL DATE<br>16 AUG 77     |
| 1" = 1" 010 1" 000<br>ANGLES 1/2" 1/8"  | DRAWN BY [Signature] 16 AUG 77 |
|   | CHECKED BY [Signature] 7-18-77 |
|   | APPROVED BY [Signature]        |
| MATERIAL<br>325FX01 MLP   | DESIGN ACTIVITY APPROVAL       |
| NEXT ASSY   | USED ON                        |
| APPLICATIONS  | FINISH                         |

|   |  |
|---|--|
| LYNCH COMMUNICATION SYSTEMS<br>204 EDISON WAY, RENO, NEVADA | TITLE<br>SCHEMATIC & PARTS LOCATION<br>TYPE 325FX01<br>FXS CHANNEL UNIT (SUBSCRIBER) 2W 9000 |
| SCALE: NONE   | DRAWING NO.<br>325FX01-01  |
| SHEET 1 OF 2  | ISSUE<br>3   |



| REVISIONS |       |             |      |          |
|-----------|-------|-------------|------|----------|
| ISSUE     | EN NO | DESCRIPTION | DATE | APPROVED |
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| QTY               | UNIT OF MEAS | PART OR IDENTIFYING NO | DESCRIPTION | REF. DESIG. | NOTES | ITEM NO. |
|-------------------|--------------|------------------------|-------------|-------------|-------|----------|
| LIST OF MATERIALS |              |                        |             |             |       |          |
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|                   |              |                        |             |             |       |          |

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES IN DECIMALS:  
 X .010  
 Y .005  
 Z .010  
 ANGLES: 1/2° FRACTIONS:  
 ± 1/2° ± 1/64

MATERIAL: \_\_\_\_\_  
 FINISH: \_\_\_\_\_

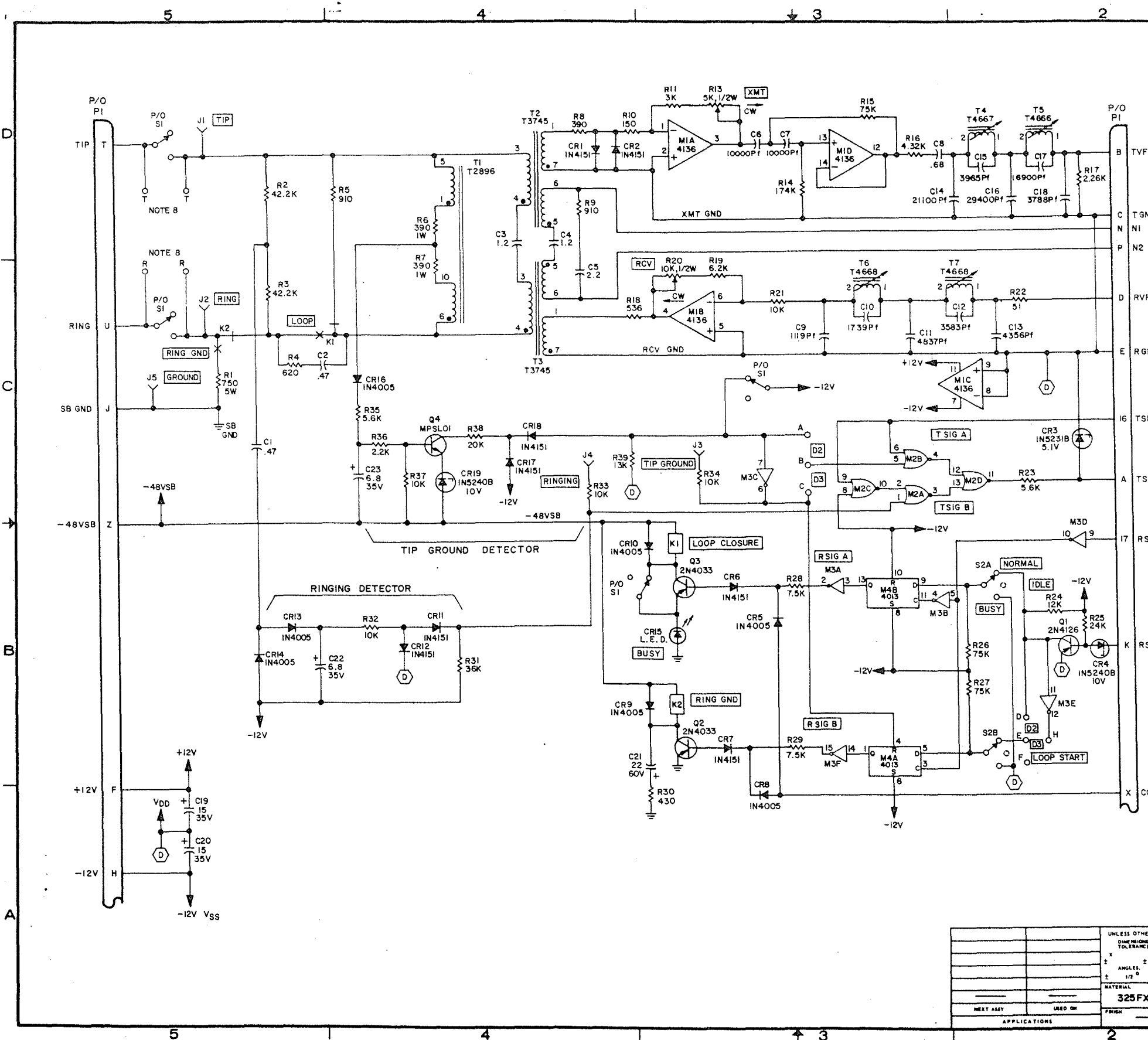
NEET ARMY USED ON APPLICATIONS

ORIGINAL DATE OF DRAWING: 8-16-77  
 DRAWN BY: D. GRAINGER 8-16-77  
 CHECKED BY: [Signature] 8-11-77  
 APPROVED BY: \_\_\_\_\_  
 DESIGN ACTIVITY APPROVAL: \_\_\_\_\_  
 FINAL APPROVAL: \_\_\_\_\_

**Lynch** LYNCH COMMUNICATION SYSTEMS  
 204 EDISON WAY, RENO, NEVADA

TITLE: SCHEMATIC & PARTS LOCATION  
 TYPE: 325FX01  
 FXS CHANNEL UNIT (SUBSCRIBER) 2W 9000

SIZE: D DRAWING NO: 325FX01-01  
 SCALE: NONE P/N: \_\_\_\_\_ SHEET 2 of 2



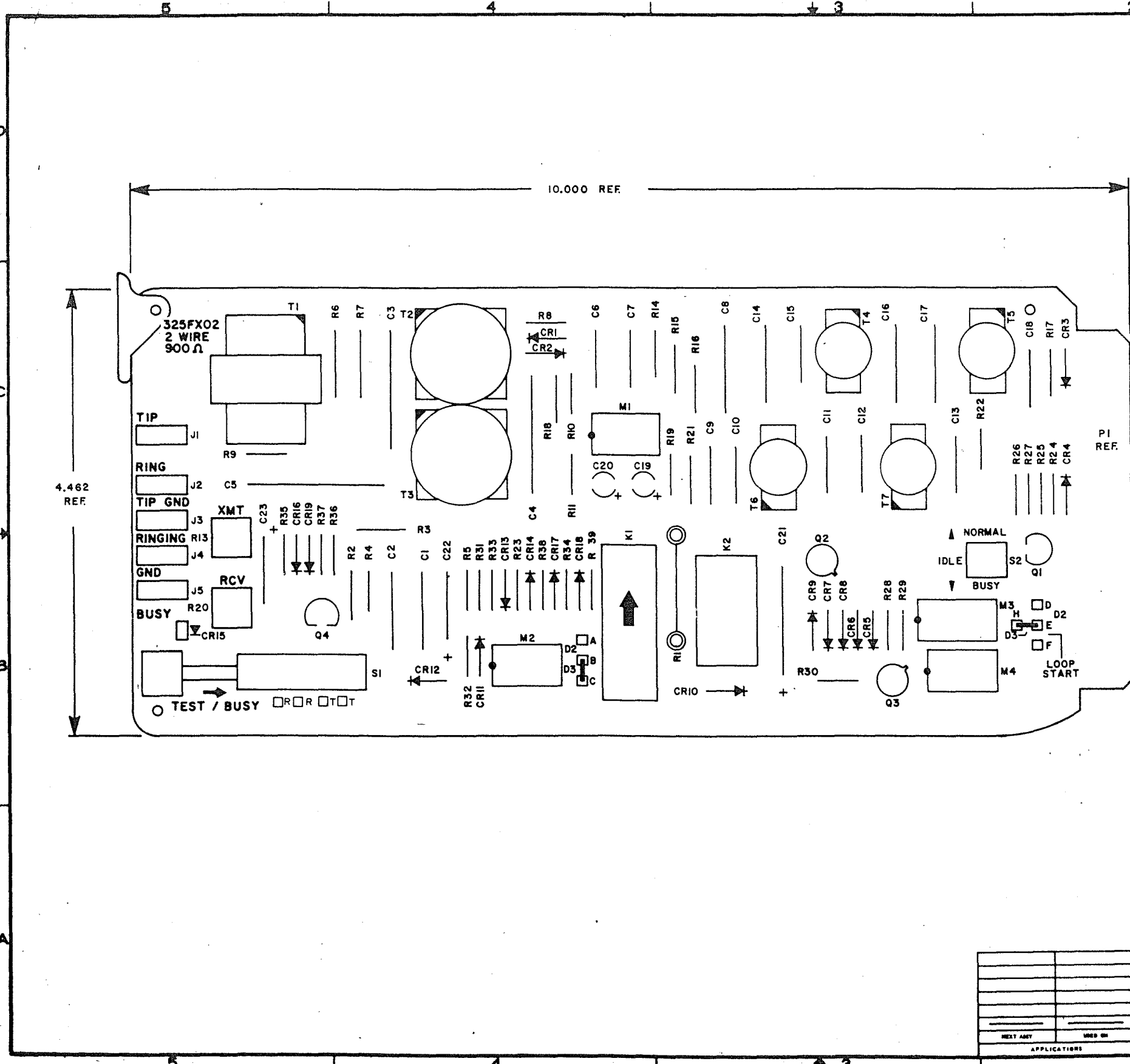
| REVISIONS |       |                               |         |             |
|-----------|-------|-------------------------------|---------|-------------|
| ISSUE     | EN NO | DESCRIPTION                   | DATE    | APPROVED    |
| 1         | 9498  | FINAL RELEASE                 | 8-18-77 | [Signature] |
| 2         | 19544 | REMOVED R12 & R11 WAS 2.2K    | 9-15-77 | [Signature] |
| 3         | 19900 | ADD R-R & T-T STUDS & NOTE 8. | 2-7-78  | [Signature] |

NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL RESISTANCES ARE IN OHMS, 1/4W & ALL CAPACITANCES ARE IN MICROFARADS.

| HIGHEST REFERENCE DESIGNATIONS |      |    |    |    |    |    |  |
|--------------------------------|------|----|----|----|----|----|--|
| C23                            | CR19 | J5 | K2 | M4 | P1 | Q4 |  |
| R39                            | S2   | T7 |    |    |    |    |  |
| REFERENCE DESIGNATIONS OMITTED |      |    |    |    |    |    |  |
| R12                            |      |    |    |    |    |    |  |

- S1 SHOWN IN BUSY CONDITION.
- S2 SHOWN IN NORMAL CONDITION.
- K1 AND K2 SHOWN IN IDLE CONDITION.
- FOR GROUND START STRAP:  
 B TO A AND E TO D FOR D2  
 B TO C AND E TO H FOR D3
- FOR LOOP START STRAP:  
 B TO A AND E TO F FOR D2  
 B TO C AND E TO F FOR D3
- MAXIMUM DC LOOP RESISTANCE - 500 OHMS  
 LOOP MUST BE LAID OUT SYMMETRICALLY.
- STRAP T-T AND R-R FOR THE TIP AND RING  
 BUSY SWITCH BYPASS.

| QTY   | UNIT OF MEAS | PART OR IDENTIFYING NO. | DESCRIPTION  | REF. DESIG. | NOTES | ITEM NO. |
|---|--------------|-------------------------|--|-------------|-------|----------|
| LIST OF MATERIALS   |              |                         |  |             |       |          |
| ORIGINAL DATE OF DRAWING: 18 AUG 77<br>DRAWN BY: [Signature] 18 AUG 77<br>CHECKED BY: [Signature] 8-18-77<br>APPROVED BY: [Signature]<br>DESIGN ACTIVITY APPROVAL: [Signature]<br>FINAL APPROVAL: [Signature] 8-18-77 |              |                         |  |             |       |          |
| UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES, TOLERANCES IN DECIMALS:<br>.X .XX .XXX<br>.1 .010 .005<br>ANGLES: 1/2° 1/4°<br>MATERIAL: 325FX02 MLP<br>FINISH:   |              |                         | LYNCH COMMUNICATION SYSTEMS<br>204 EDISON WAY, RENO, NEVADA<br>TITLE: SCHEMATIC & PARTS LOCATION<br>TYPE: 325FX02<br>FXO CHANNEL UNIT (OFFICE) 2W9000<br>SIZE: D<br>DRAWING NO.: 325FX02-01<br>SCALE: NONE<br>SHEET 1 OF 2 |             |       |          |

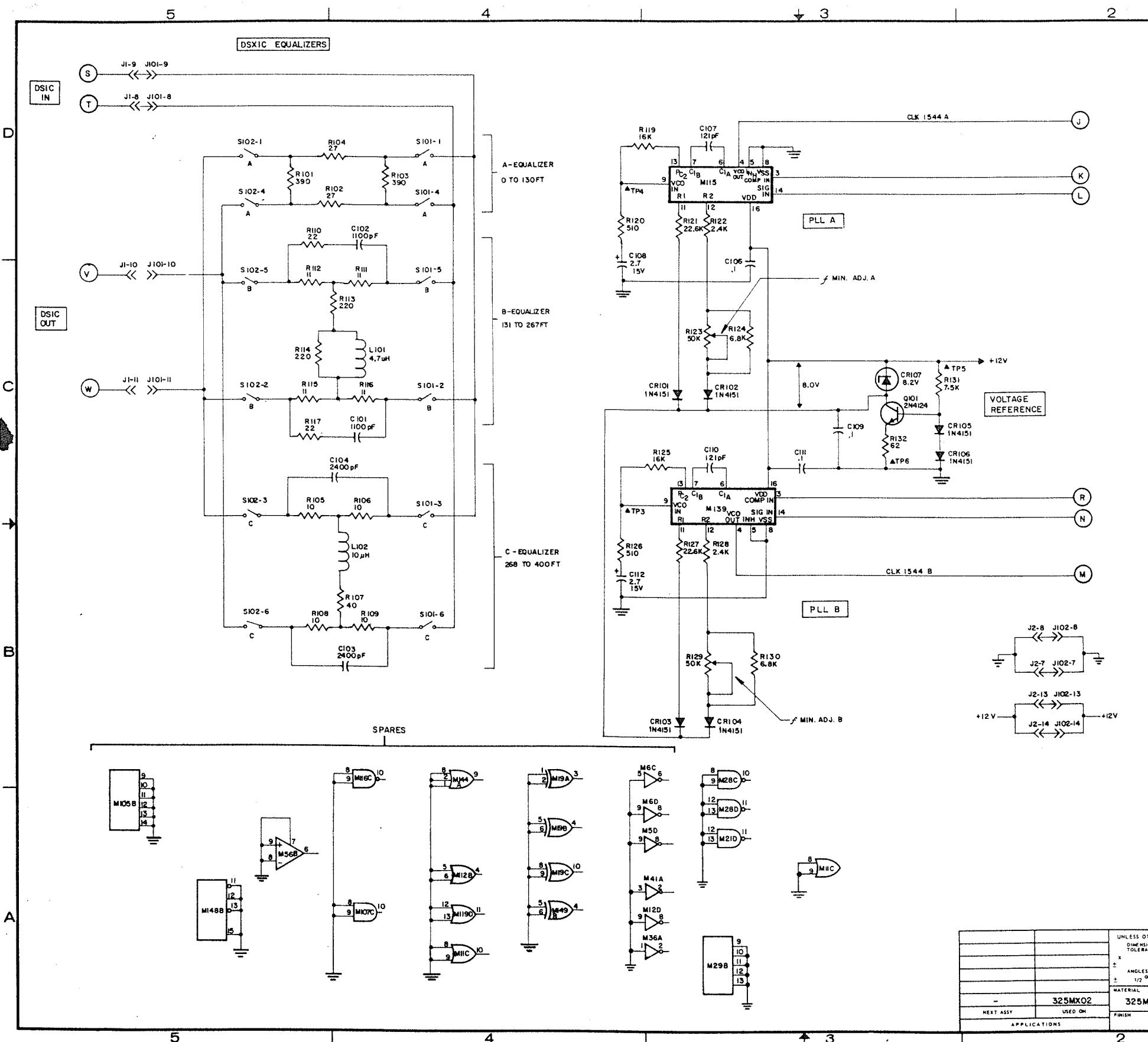


| REVISIONS |        |             |      |          |
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| QTY | UNIT OF MEAS. | PART OR IDENTIFYING NO. | DESCRIPTION | REF. DESIG. | NOTES | ITEM NO. |
|-----|---------------|-------------------------|-------------|-------------|-------|----------|
|     |               |                         |             |             |       |          |
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|     |               |                         |             |             |       |          |
|     |               |                         |             |             |       |          |

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|---|-----------------------------------|
| UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES IN PARENTS: | ORIGINAL DATE OF DRAWING: 8-15-77 |
| 1/16" ± .001  | DRAWN BY: D. GRAINGER 8-15-77     |
| 1/32" ± .0005   | CHECKED BY: [Signature] 8-15-77   |
| 1/64" ± .0002   | APPROVED BY: [Signature]          |
| DESIGN ACTIVITY APPROVAL:   | DESIGN ACTIVITY APPROVAL:         |
| FINAL APPROVAL:   | FINAL APPROVAL:                   |

|   |                   |
|---|-------------------|
| <b>LYNCH COMMUNICATION SYSTEMS</b><br>204 EDISON WAY, RENO, NEVADA                                |                   |
| <b>TITLE: SCHEMATIC &amp; PARTS LOCATION</b><br>TYPE 325FX02<br>FXO CHANNEL UNIT (OFFICE) 2W 900Ω |                   |
| SET D<br>325FX02-01   | SHEET 2 OF 2<br>3 |



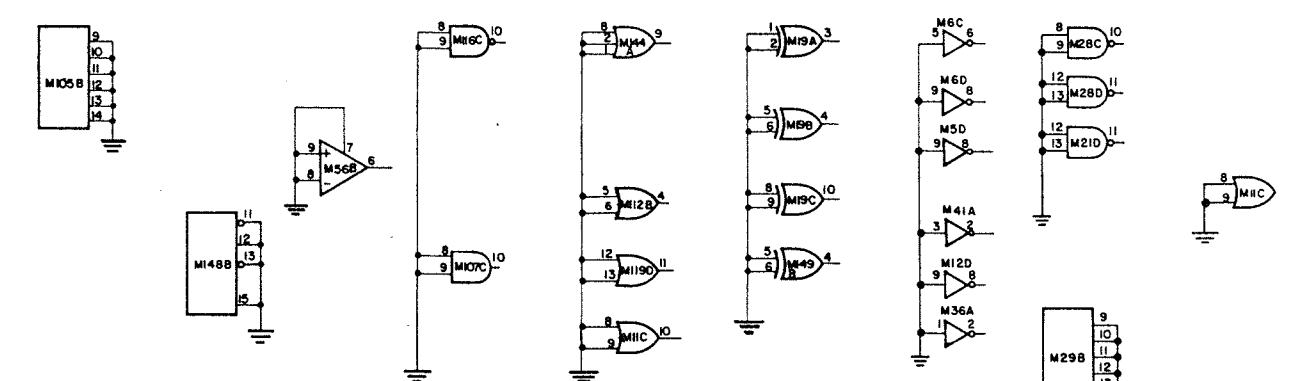
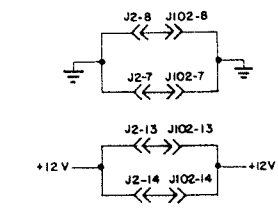
| REVISIONS |       |   |         |          |
|-----------|-------|---|---------|----------|
| ISSUE     | EN NO | DESCRIPTION                                     | DATE    | APPROVED |
| 1         | 22482 | FINAL RELEASE                                   | 5-19-80 | TJS      |
| 2         |       | ADDED M62 & M33 SCRAMBLER/UNSCRAMBLER REDESIGN. | 3-12-81 | TJS      |
| 3         | 23860 | ADDED M33, M62                                  | 5-11-81 | TJS      |

NOTES (UNLESS OTHERWISE SPECIFIED)

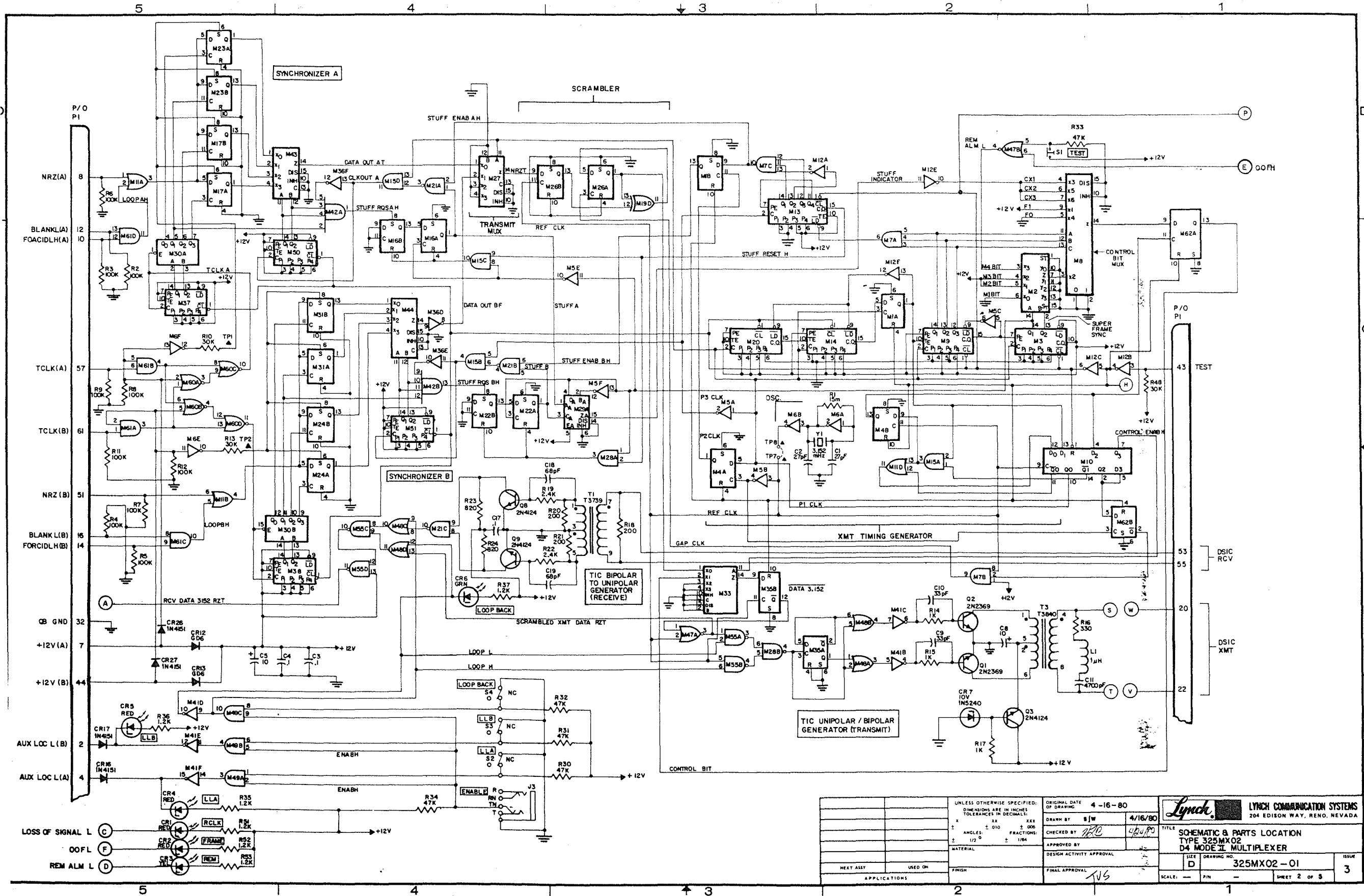
- ALL RESISTANCES ARE IN OHMS, 1/4W.  
ALL CAPACITANCES ARE IN MICROFARADS.

| HIGHEST REFERENCE DESIG. USED |      |       |    |      |      |    |
|-------------------------------|------|-------|----|------|------|----|
| R133                          | C63  | CR107 | T5 | L402 | Q101 | Y1 |
| S102                          | M154 | P102  |    |      |      |    |

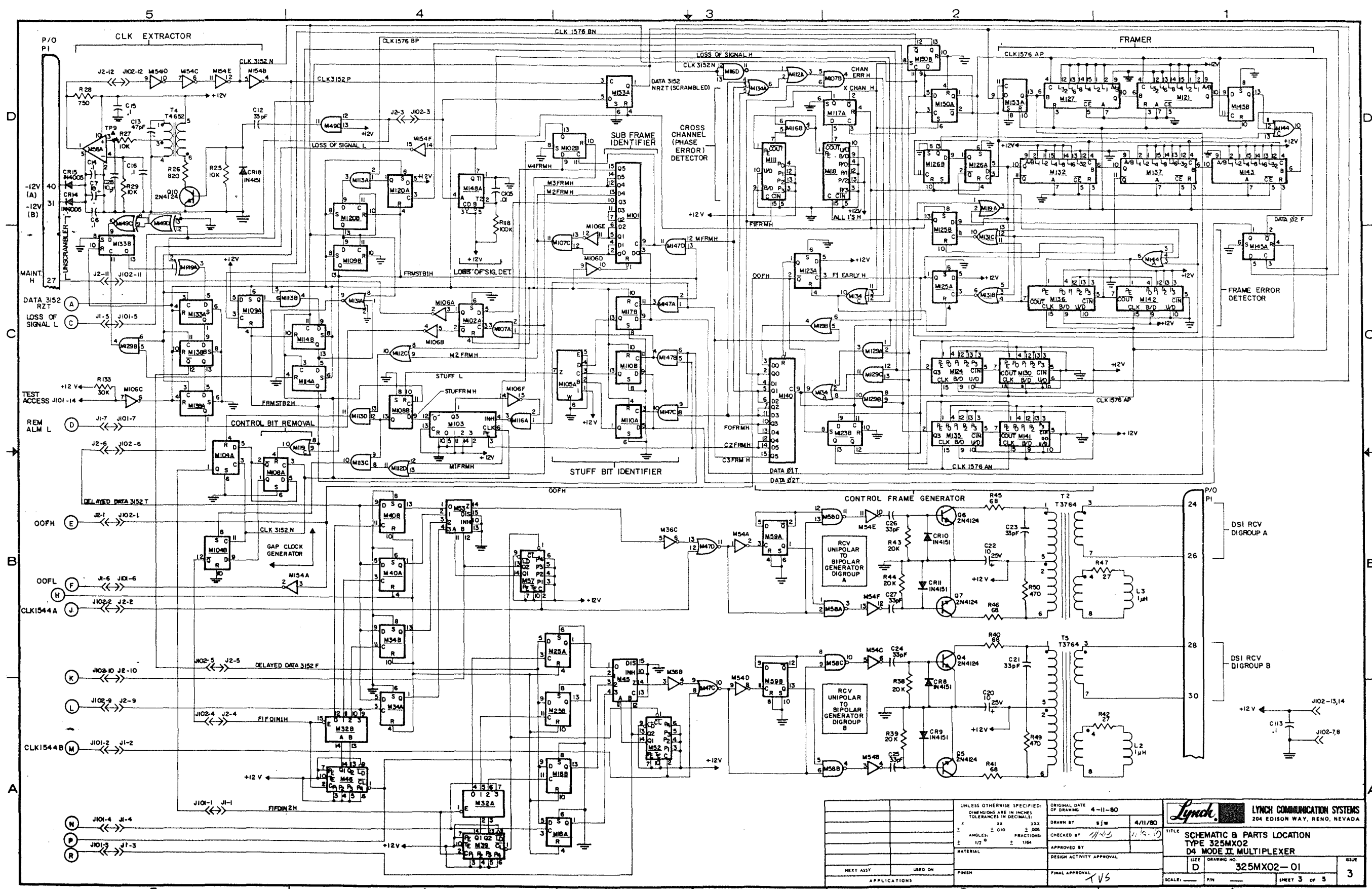
| REFERENCE DESIG. OMITTED |          |          |    |         |            |           |
|--------------------------|----------|----------|----|---------|------------|-----------|
| CR 19-25                 | R54-R100 | C29-C100 | M3 | M63-100 | M122, 128, | 146 & 151 |
| Q11-Q100                 | J4-J100  | S5-S100  |    |         |            |           |
| L4-L100                  |          |          |    |         |            |           |



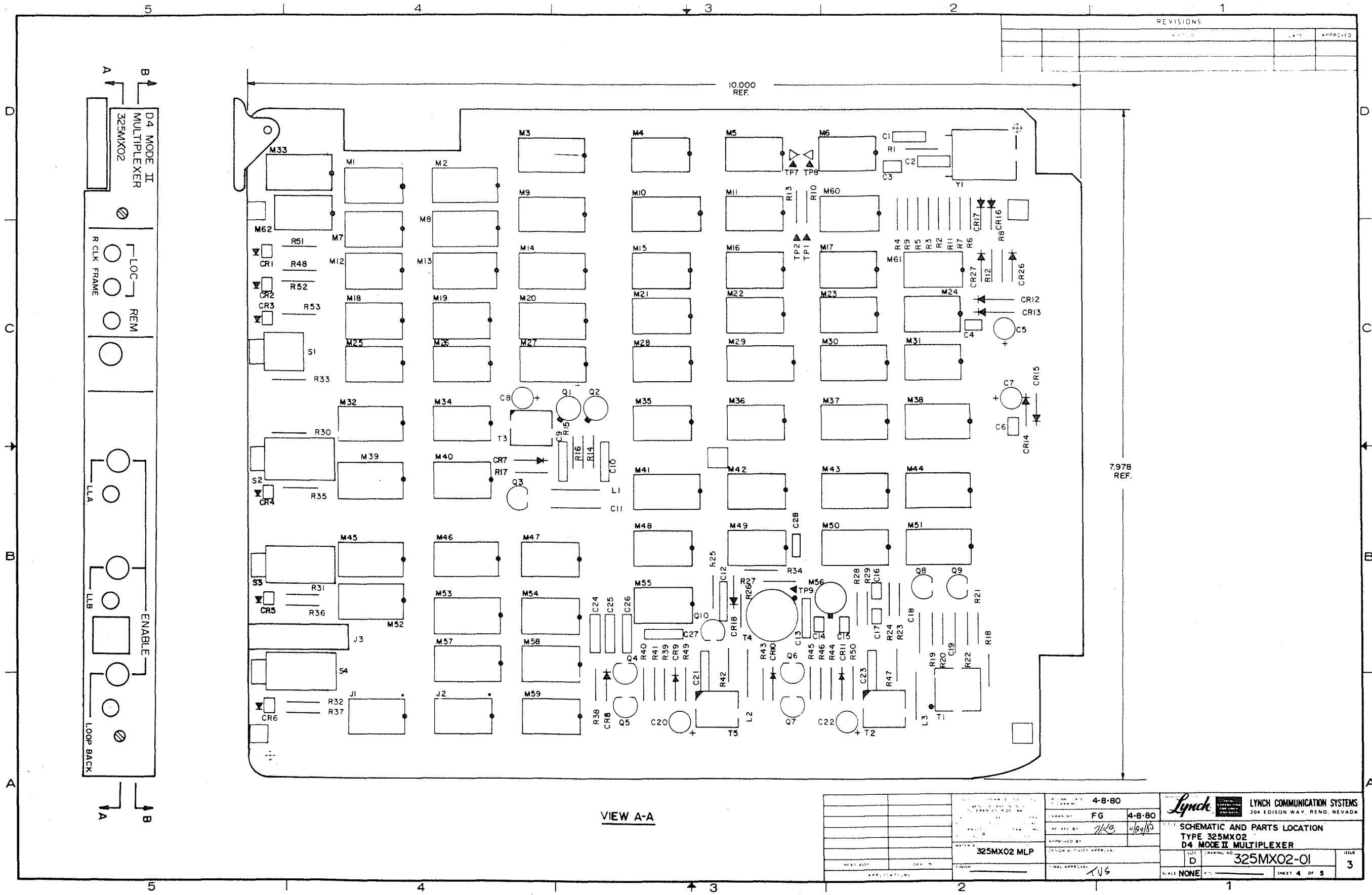
|  |      |                          |             |   |
|--|------|--------------------------|-------------|---|
| UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES IN DECIMALS: |      | ORIGINAL DATE OF DRAWING | 4-17-80     | LYNCH COMMUNICATION SYSTEMS<br>204 EDISON WAY, RENO, NEVADA |
| X ±  | XX ± | DRAWN BY                 | SJW 4/17/80 |   |
| ° ±  | ° ±  | CHECKED BY               | JTB         | TITLE   |
| ±  | ±    | APPROVED BY              |             | SCHMATIC & PARTS LOCATION                                   |
|  |      | DESIGN ACTIVITY APPROVAL |             | TYPE 325MX02  |
|  |      | FINAL APPROVAL           | TJS         | D4 MODE II MULTIPLEXER                                      |
|  |      |                          |             | SIZE DRAWING NO.  |
|  |      |                          |             | D 325MX02-01  |
|  |      |                          |             | ISSUE   |
|  |      |                          |             | 3   |



|  |         |                                     |   |
|--|---------|-------------------------------------|---|
| UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES IN DECIMALS: |         | ORIGINAL DATE OF DRAWING<br>4-16-80 | LYNCH COMMUNICATION SYSTEMS<br>204 EDISON WAY, RENO, NEVADA                   |
| XX   | XXX     | DRAWN BY<br>B W 4/16/80             |   |
| ±  | ± .010  | CHECKED BY<br>RRC 4/24/80           | TITLE<br>SCHEMATIC & PARTS LOCATION<br>TYPE 325MX02<br>D4 MODE II MULTIPLEXER |
| ±  | ± 1/2°  | APPROVED BY                         | SIZE<br>D DRAWING NO.<br>325MX02-01   |
| MATERIAL   | FINISH  | DESIGN ACTIVITY APPROVAL            | ISSUE<br>3  |
| NEXT ASSY  | USED ON | FINAL APPROVAL<br>JVS               | SCALE: — PIN — SHEET 2 OF 5   |
| APPLICATIONS   |         |                                     |   |



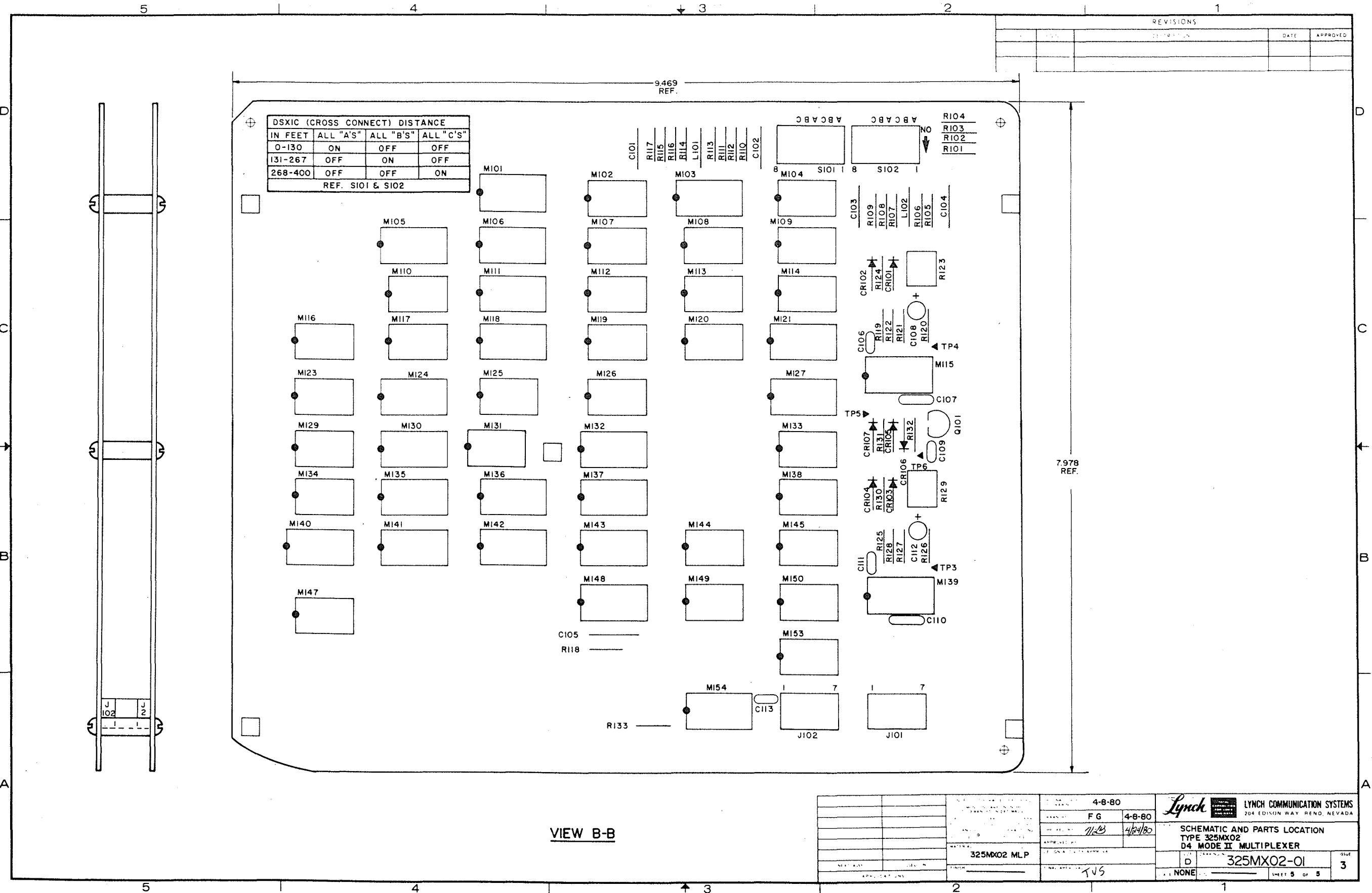
|   |         |                                     |  |
|---|---------|-------------------------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES IN DECIMALS |         | ORIGINAL DATE OF DRAWING<br>4-11-80 | <b>LYNCH COMMUNICATION SYSTEMS</b><br>204 EDISON WAY, RENO, NEVADA |
| ± .010  | ± .005  | DRAWN BY<br>SJM                     |  |
| ± .005  | ± .002  | CHECKED BY<br>JCS                   | TITLE<br>SCHEMATIC & PARTS LOCATION<br>D4 MODE II MULTIPLEXER      |
| ± .002  | ± .001  | APPROVED BY                         | SIZE<br>D  |
| ± .001  | ± .0005 | DESIGN ACTIVITY APPROVAL            | DRAWING NO.<br>325MX02-01  |
| ± .0005   | ± .0002 | FINAL APPROVAL<br>JVS               | ISSUE<br>3   |
| ± .0002   | ± .0001 |                                     | SHEET 3 OF 5   |



| REVISIONS |  | DATE | APPROVED |
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|           |  |      |          |
|           |  |      |          |

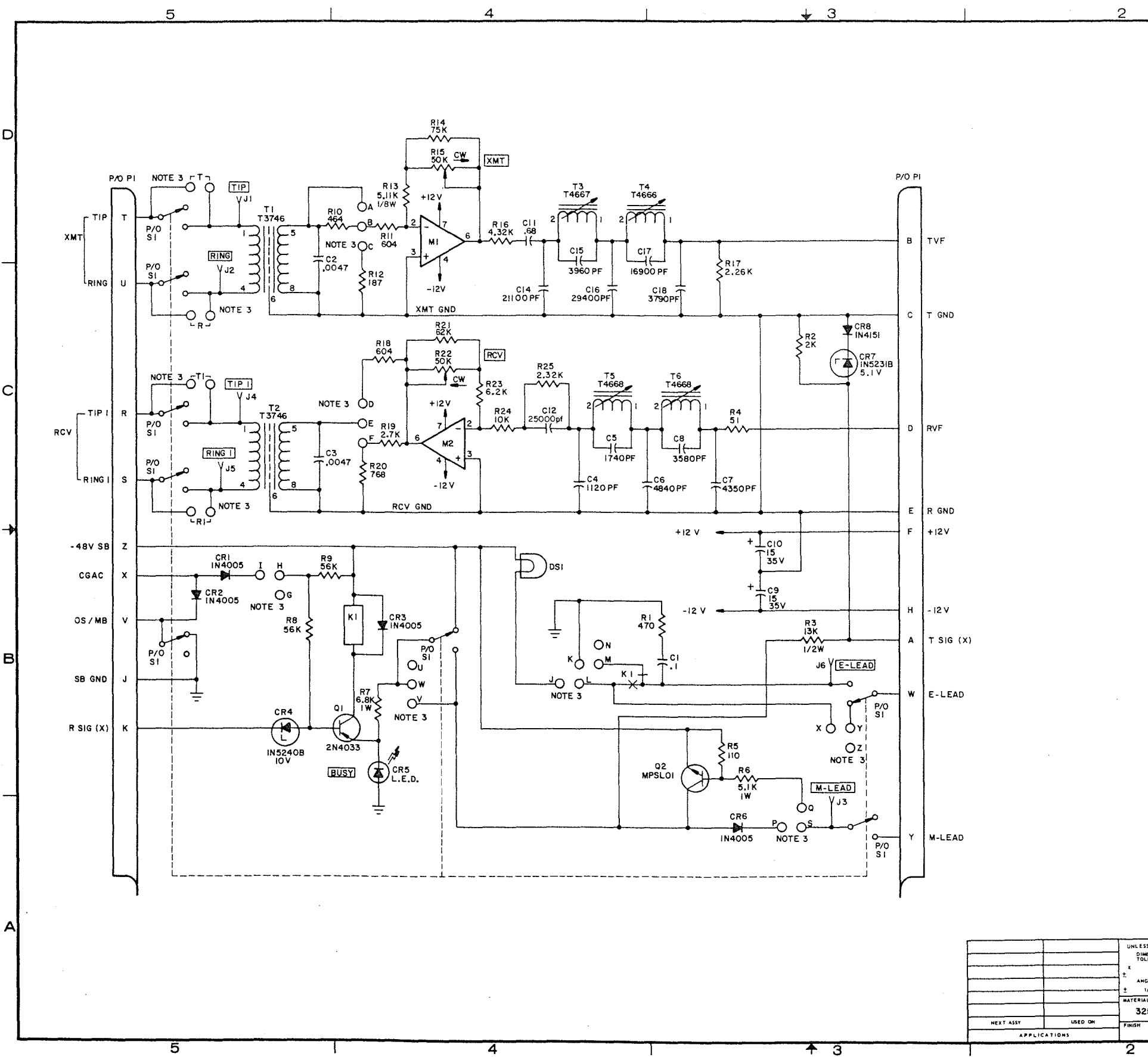
VIEW A-A

|             |         |  |
|-------------|---------|--|
| DATE        | 4-8-80  | LYNCH COMMUNICATION SYSTEMS<br>204 EDISON WAY, RENO, NEVADA            |
| DESIGNED BY | FG      |  |
| DATE        | 4-8-80  | SCHEMATIC AND PARTS LOCATION<br>TYPE 325MX02<br>D4 MODE II MULTIPLEXER |
| DESIGNED BY | JKB     |  |
| DATE        | 4/24/80 | 325MX02 MLP  |
| DESIGNED BY | JKB     |  |
| DATE        |         | 325MX02-01   |
| DATE        |         | 3  |
| SCALE       | NONE    | SHEET 4 OF 5   |



| REVISIONS |             |      |
|-----------|-------------|------|
| NO.       | DESCRIPTION | DATE |
|           |             |      |
|           |             |      |

|             |                    |   |
|-------------|--------------------|---|
| DATE        | 4-8-80             | <b>LYNCH COMMUNICATION SYSTEMS</b><br>204 EDISON WAY, RENO, NEVADA            |
| FG          | 4-8-80             |   |
| APPROVED BY | <i>[Signature]</i> | <b>SCHEMATIC AND PARTS LOCATION</b><br>TYPE 325MX02<br>D4 MODE II MULTIPLEXER |
| NATURAL     | 325MX02 MLP        |   |
| ISSUE       | D                  | 325MX02-01  |
| ISSUE       | NONE               | SHEET 5 OF 5  |



| REVISIONS |       |               |        |          |
|-----------|-------|---------------|--------|----------|
| ISSUE     | EN NO | DESCRIPTION   | DATE   | APPROVED |
| 1         | 0536  | FINAL RELEASE | 0-2-78 | JIS      |
| 2         | 2371P | R14 WAS 39K   | 4-7-81 | JIS      |
|           |       |               |        |          |
|           |       |               |        |          |
|           |       |               |        |          |
|           |       |               |        |          |

NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL RESISTANCES ARE IN OHMS, 1/4 WATT AND ALL CAPACITANCES ARE IN MICROFARADS.

| HIGHEST REFERENCE DESIGNATIONS |     |     |    |    |    |    |
|--------------------------------|-----|-----|----|----|----|----|
| C18                            | CR8 | DS1 | J6 | K1 | M2 | P1 |
| Q2                             | R25 | S1  | T6 |    |    |    |
| REFERENCE DESIGNATIONS OMITTED |     |     |    |    |    |    |
| C13                            |     |     |    |    |    |    |

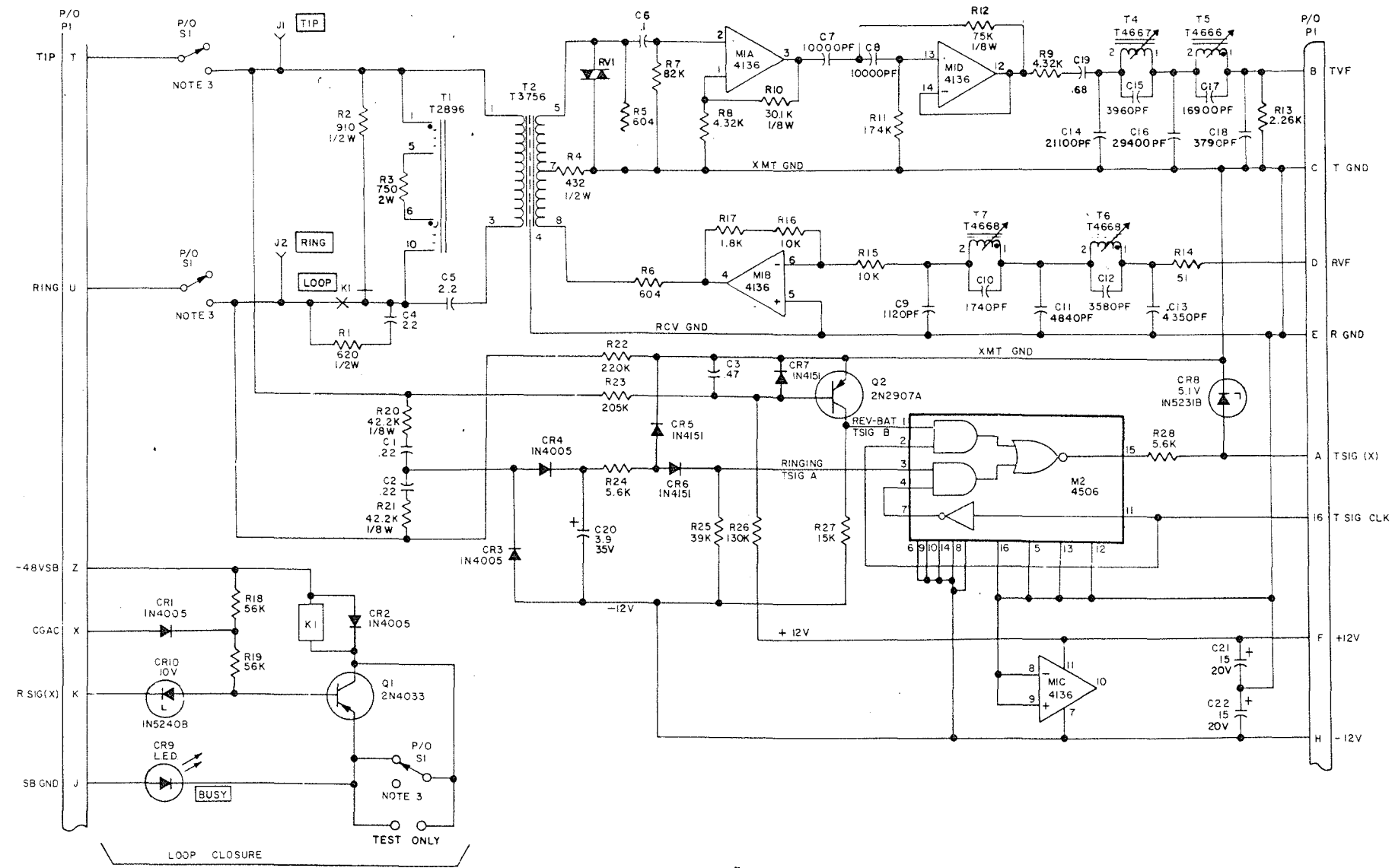
3. STRAPPING OPTIONS:

| E-LEAD OPTIONS                   |                 |          |
|----------------------------------|-----------------|----------|
| ON HOOK                          | OFF HOOK        | STRAP    |
| OPEN                             | GND             | L-K, M-N |
| OPEN                             | BATT            | L-J, M-N |
| GND                              | BATT            | L-J, M-K |
| M-LEAD OPTIONS                   |                 |          |
| IDLE                             | BUSY            | STRAP    |
| OPEN                             | BATT            | S-P      |
| GND                              | BATT            | S-P      |
| OPEN                             | GND             | S-Q      |
| VF LEVEL OPTIONS                 |                 |          |
| XMT (INPUT)                      | RCV (OUTPUT)    |          |
| -17 TO -4dBm                     | -17 TO -5.5 dBm |          |
| STRAP A-B                        | STRAP E-F       |          |
| -4 TO +8 dBm                     | -5.5 TO +8 dBm  |          |
| STRAP B-C                        | STRAP E-D       |          |
| E-LEAD ALARM (CGA) OPTIONS       |                 |          |
| E-LEAD                           | STRAP           |          |
| IDLE FOR DURATION OF ALARM       | H-I             |          |
| IDLE DURING TRUNK PROCESSING     |                 |          |
| THEN BUSY FOR DURATION OF ALARM  | H-G             |          |
| BUSY SWITCH OPTIONS              |                 |          |
| FUNCTION                         | STRAP           |          |
| FORWARD BUSY TO FAR END          | W-V             |          |
| DOES NOT FORWARD BUSY TO FAR END | W-U             |          |
| OPENS E-LEAD                     | Y-Z             |          |
| FORCES E-LEAD TO OFF HOOK STATE  | Y-X             |          |
| DOES NOT OPEN TIP/RING           | T,R,TI,RI       |          |
| TIP / RING I                     | REMOVE STRAP    |          |
| OPENS TIP/RING, TIP I / RING I   | T,R, TI, RI     |          |

4. SI SHOWN IN BUSY CONDITION.

|  |                                    |   |
|--|------------------------------------|---|
| UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES IN DECIMALS: | ORIGINAL DATE OF DRAWING<br>7/7/78 | LYNCH COMMUNICATION SYSTEMS<br>204 EDISON WAY, RENO, NEVADA                         |
| X ± .010<br>XX ± .005<br>ANGLES: ± 010<br>FRACTIONS: ± 1/64                        | DRAWN BY<br>MDE 7/7/78             |   |
| MATERIAL<br>325PROI-MLP  | CHECKED BY<br>7-25-78              | TITLE<br>SCHEMATIC & PARTS LOCATION<br>TYPE 325PROI<br>600Ω 4 WIRE PLR CHANNEL UNIT |
| FINISH   | APPROVED BY                        | SIZE<br>D   |
| APPLICATIONS   | DESIGN ACTIVITY APPROVAL           | DRAWING NO.<br>325PROI-01   |
|  | FINAL APPROVAL                     | ISSUE<br>2  |
|  |                                    | SCALE: NONE   |
|  |                                    | SHEET 1 OF 2  |





NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL RESISTANCES ARE IN OHMS, 1/4W & ALL CAPACITANCES IN MICROFARADS.

2.

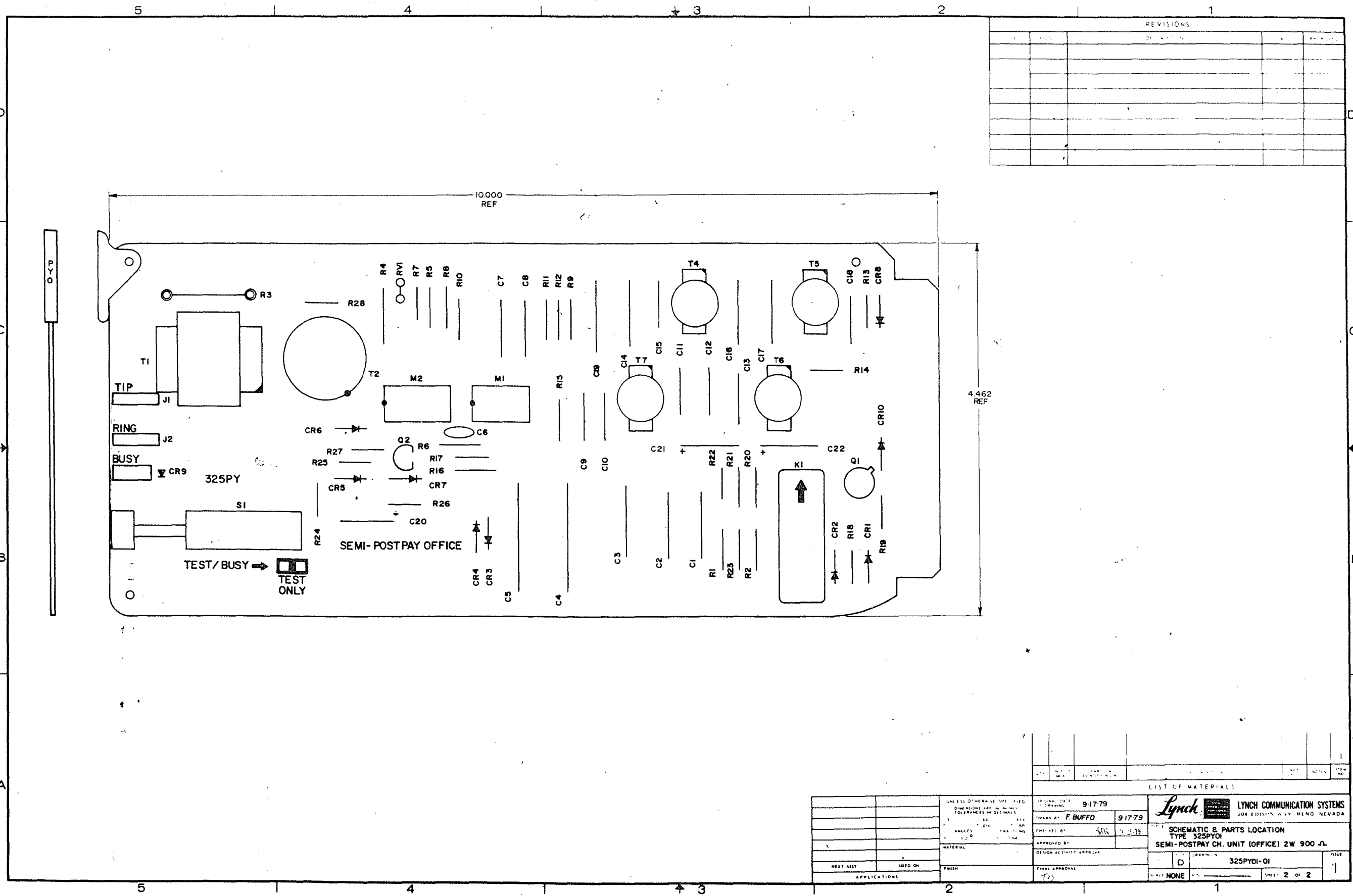
| HIGHEST REFERENCE DESIGNATIONS |      |    |    |    |    |    |     |
|--------------------------------|------|----|----|----|----|----|-----|
| C22                            | CR10 | J2 | K1 | M2 | P1 | Q2 | R28 |
| S1                             | T7   |    |    |    |    |    | RV1 |
| REFERENCE DESIGNATIONS OMITTED |      |    |    |    |    |    |     |
| T3                             |      |    |    |    |    |    |     |

3. S1 SHOWN IN BUSY STATE.  
 4. K1 SHOWN DE-ENERGIZED.

9-17-79  
 F.BUFFO 9-17-79  
 SK 9-21-79

**Lynch** COMMUNICATION SYSTEMS  
 SCHEMATIC & PARTS LOCATION  
 TYPE 325PYOI  
 SEMI-POSTPAY CH. UNIT (OFFICE) 2W 900 Ω  
 325PYOI-01

325 PYOI-MLP



| REVISIONS |      |             |
|-----------|------|-------------|
| NO.       | DATE | DESCRIPTION |
|           |      |             |
|           |      |             |
|           |      |             |
|           |      |             |
|           |      |             |
|           |      |             |
|           |      |             |
|           |      |             |
|           |      |             |
|           |      |             |

| LIST OF MATERIALS |             |      |         |
|-------------------|-------------|------|---------|
| QTY               | DESCRIPTION | UNIT | REMARKS |
|                   |             |      |         |
|                   |             |      |         |
|                   |             |      |         |
|                   |             |      |         |
|                   |             |      |         |
|                   |             |      |         |
|                   |             |      |         |
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|                   |             |      |         |
|                   |             |      |         |

|  |  |
|--|--|
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES IN DECIMALS | DATE: 9-17-79<br>DRAWN BY: F. BUFFO<br>CHECKED BY: [Signature]<br>APPROVED BY: [Signature]<br>DESIGN ACTIVITY APPROVA: [Signature] |
| MATERIAL   | FINISH   |
| NEST ASST  | USED ON  |
| APPLICATIONS   |  |

**Lynch** LYNCH COMMUNICATION SYSTEMS  
204 EDISON AVE. RENO, NEVADA

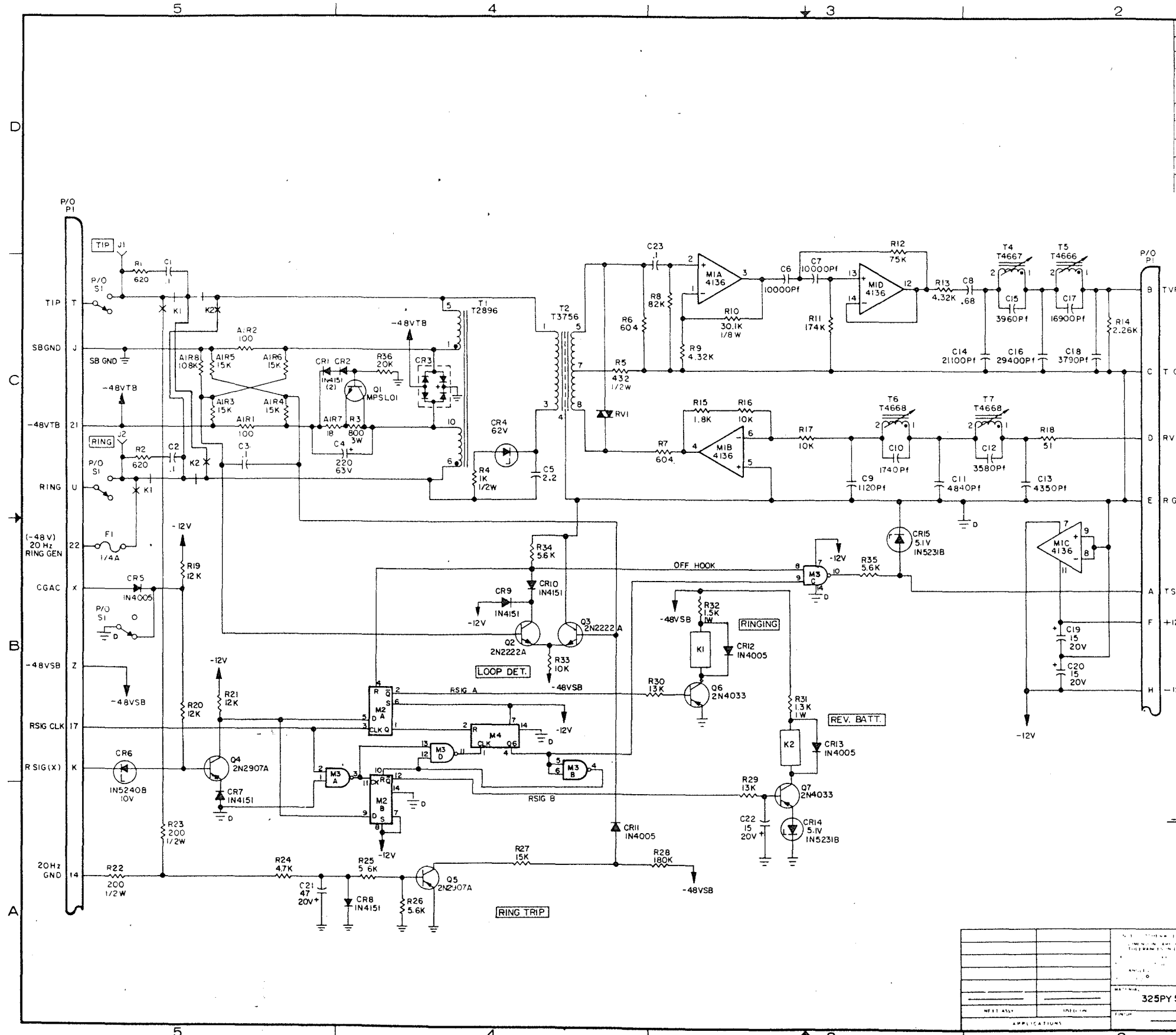
**SCHEMATIC & PARTS LOCATION**  
TYPE 325PYOI  
SEMI-POSTPAY CH. UNIT (OFFICE) 2W 900 JL

ISSUE: D 325PYOI-01

DATE: 9-17-79

ISSUE: 1

SHEET 2 OF 2



| REVISIONS |               |         |     |
|-----------|---------------|---------|-----|
| NO.       | DESCRIPTION   | DATE    | BY  |
| 1         | FINAL RELEASE | 2/11/79 | WSK |
|           |               |         |     |
|           |               |         |     |
|           |               |         |     |

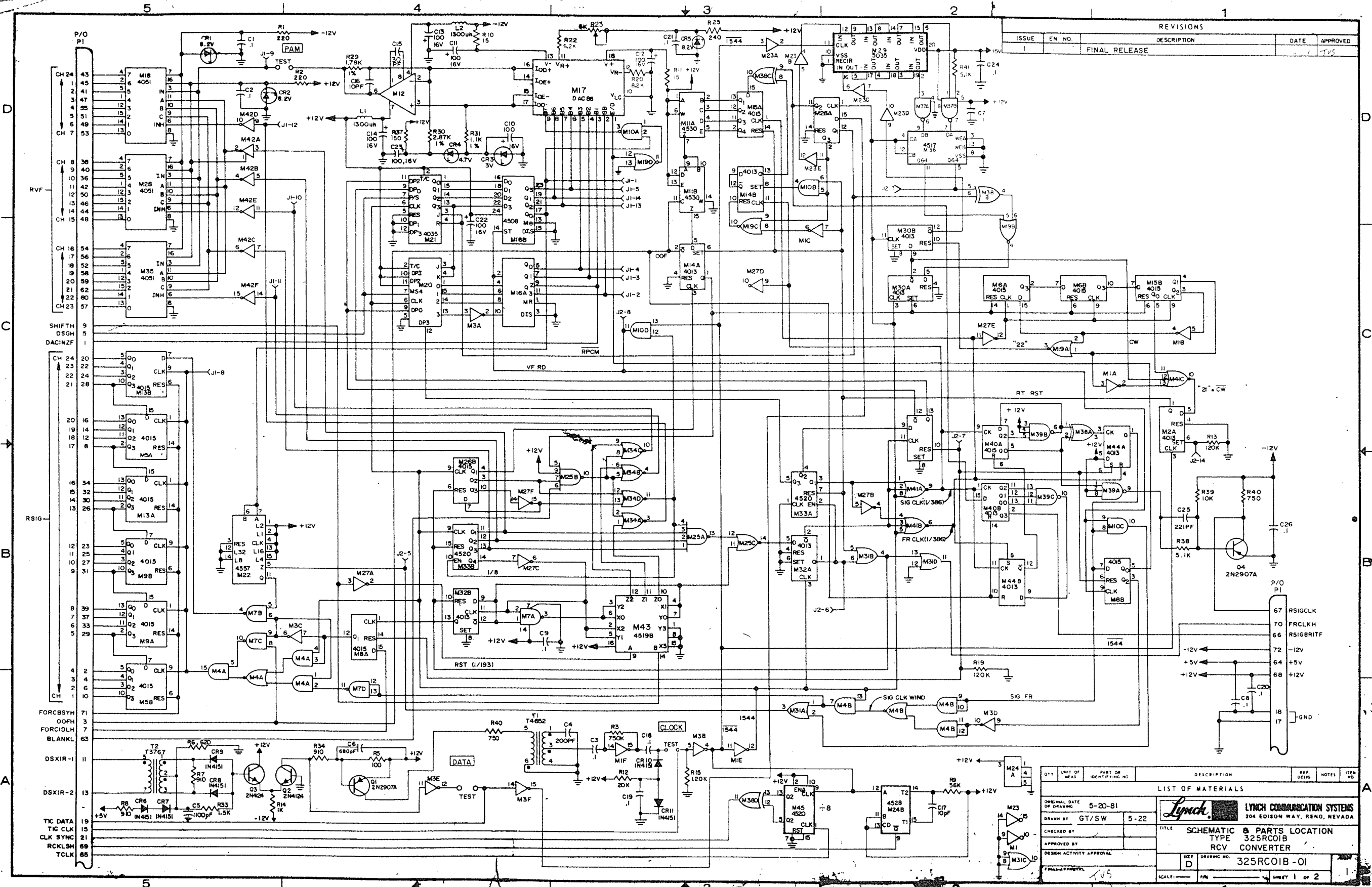
- NOTES:
- UNLESS OTHERWISE SPECIFIED ALL RESISTANCES IN OHMS, 1/4W & ALL CAPACITANCES IN MICROFARADS.
  - | HIGHEST REFERENCE DESIGNATIONS |     |      |    |    |    |    |    |    |
|--------------------------------|-----|------|----|----|----|----|----|----|
| AIR8                           | C22 | CR15 | F1 | J2 | K2 | M4 | PI | Q7 |
| RV1                            | R36 | SI   | T7 |    |    |    |    |    |
| REFERENCE DESIGNATIONS OMITTED |     |      |    |    |    |    |    |    |
| T3                             |     |      |    |    |    |    |    |    |
  - SI SHOWN IN BUSY STATE.

PARTS LOCATION - SEE SHEET 2

| LIST OF MATERIALS |             |     |      |
|-------------------|-------------|-----|------|
| ITEM NO.          | DESCRIPTION | QTY | UNIT |
|                   |             |     |      |
|                   |             |     |      |
|                   |             |     |      |
|                   |             |     |      |

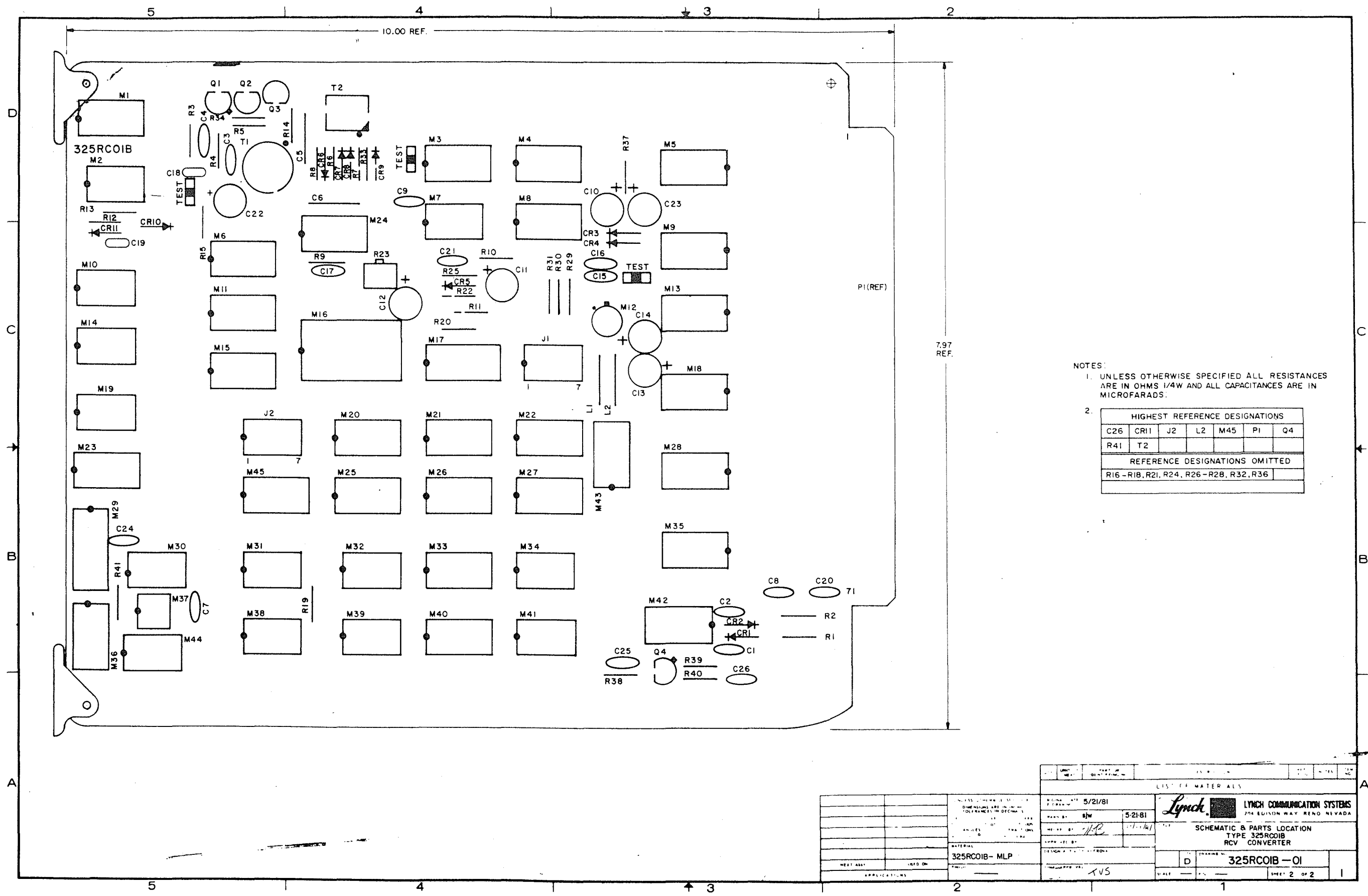
9-18-79  
 F. BUFFO 9-18-79  
 LYNCH COMMUNICATION SYSTEMS  
 204 EDISON WAY, HEND, NEVADA  
 SCHEMATIC & PARTS LOCATION  
 TYPE 325PY51  
 SEMI-POSTPAY CHAN. UNIT (SUB) 2W 9000  
 325PY51-MLP  
 325PY51-01  
 SHEET 1 OF 2





| REVISIONS |       |               |      |          |
|-----------|-------|---------------|------|----------|
| ISSUE     | EN NO | DESCRIPTION   | DATE | APPROVED |
| 1         |       | FINAL RELEASE |      | TUS      |

| QTY                               | UNIT OF MEAS | PART OR IDENTIFYING NO | DESCRIPTION | REF. DESIG | NOTES | ITEM NO |
|-----------------------------------|--------------|------------------------|-------------|------------|-------|---------|
| LIST OF MATERIALS                 |              |                        |             |            |       |         |
| ORIGINAL DATE OF DRAWING: 5-20-81 |              |                        |             |            |       |         |
| DRAWN BY: GT/SW 5-22              |              |                        |             |            |       |         |
| CHECKED BY:                       |              |                        |             |            |       |         |
| APPROVED BY:                      |              |                        |             |            |       |         |
| DESIGN ACTIVITY APPROVAL:         |              |                        |             |            |       |         |
| TITLE: SCHEMATIC & PARTS LOCATION |              |                        |             |            |       |         |
| TYPE: 325RC01B                    |              |                        |             |            |       |         |
| RCV CONVERTER                     |              |                        |             |            |       |         |
| DRAWING NO: 325RC01B-01           |              |                        |             |            |       |         |
| SCALE: 1/8" = 1"                  |              |                        |             |            |       |         |
| SHEET 1 OF 2                      |              |                        |             |            |       |         |

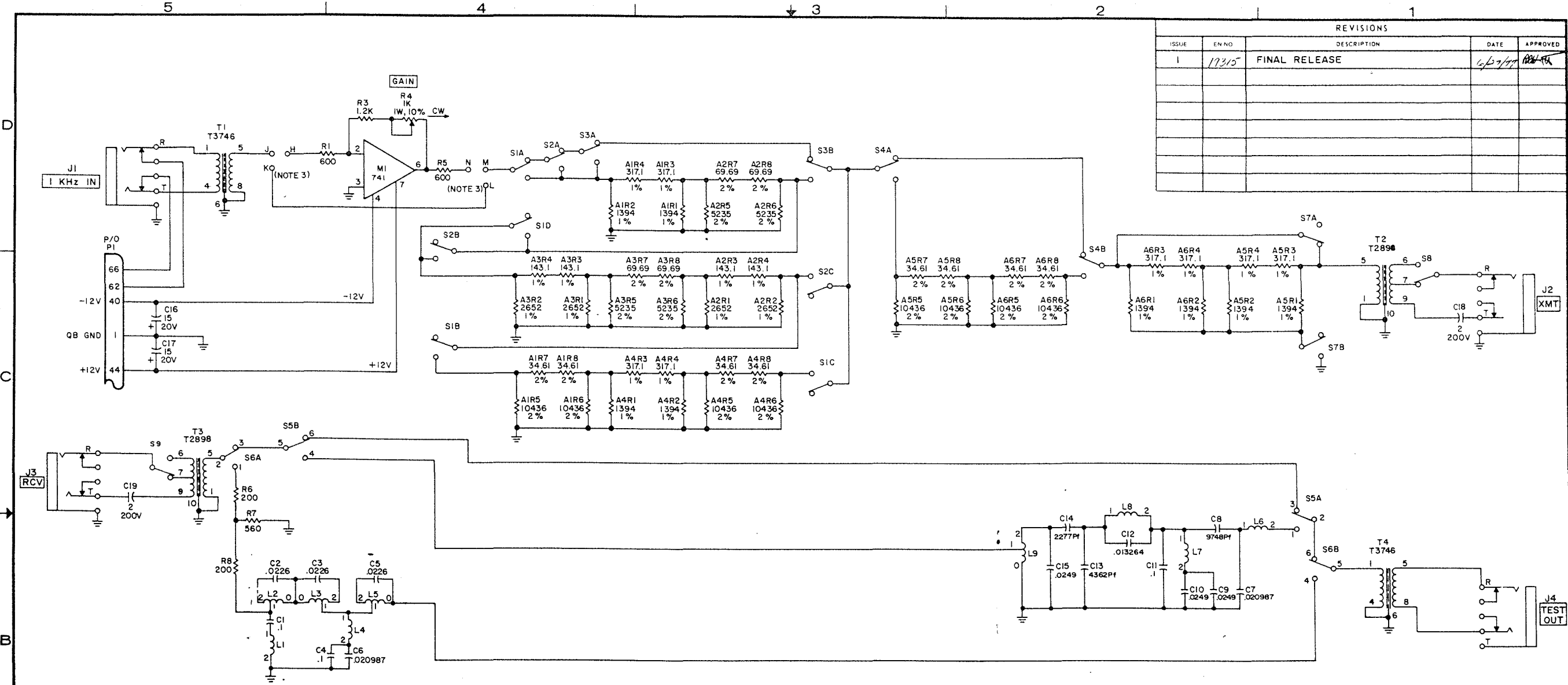


NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL RESISTANCES ARE IN OHMS 1/4W AND ALL CAPACITANCES ARE IN MICROFARADS.

2.

| HIGHEST REFERENCE DESIGNATIONS           |      |    |    |     |    |
|--|------|----|----|-----|----|
| C26                                      | CR11 | J2 | L2 | M45 | Q4 |
| R41                                      | T2   |    |    |     |    |
| REFERENCE DESIGNATIONS OMITTED           |      |    |    |     |    |
| R16 - R18, R21, R24, R26 - R28, R32, R36 |      |    |    |     |    |

|              |  |      |  |                   |  |         |  |  |  |    |  |
|--------------|--|------|--|-------------------|--|---------|--|--|--|----|--|
| APPROVALS    |  | DATE |  | BY                |  | CHECKED |  | DATE   |  | BY |  |
|              |  |      |  |                   |  |         |  |  |  |    |  |
| MATERIAL     |  |      |  | LIST OF MATERIALS |  |         |  | 5/21/81<br>5-21-81<br>LYNCH COMMUNICATION SYSTEMS<br>274 EDISON WAY RENO NEVADA<br>SCHEMATIC & PARTS LOCATION<br>TYPE 325RCOIB<br>RCV CONVERTER<br>325RCOIB-01<br>SHEET 2 OF 2 |  |    |  |
| 325RCOIB-MLP |  |      |  |                   |  |         |  |  |  |    |  |



| REVISIONS |       |               |         |             |
|-----------|-------|---------------|---------|-------------|
| ISSUE     | EN NO | DESCRIPTION   | DATE    | APPROVED    |
| 1         | 17315 | FINAL RELEASE | 6-13-77 | [Signature] |
|           |       |               |         |             |
|           |       |               |         |             |
|           |       |               |         |             |
|           |       |               |         |             |
|           |       |               |         |             |

- NOTES:
- UNLESS OTHERWISE SPECIFIED ALL RESISTANCES ARE IN OHMS AND ALL CAPACITANCES ARE IN MICROFARADS.
  - | HIGHEST REFERENCE DESIGNATIONS |     |    |    |    |    |
|--------------------------------|-----|----|----|----|----|
| A6R8                           | C19 | J4 | L9 | MI | PI |
| R8                             | S8  | T4 |    |    |    |
| REFERENCE DESIGNATIONS OMITTED |     |    |    |    |    |
| R2                             |     |    |    |    |    |
  - STRAPPING OPTION:  
FOR USE WITH AMPLIFIER, STRAP H-J, M-N.  
FOR USE WITHOUT AMPLIFIER, STRAP J-K, L-M.

PARTS LOCATION - SEE SHEET 2

| QTY | UNIT OF MEAS | PART OR IDENTIFYING NO | DESCRIPTION | REF. DESIG. | NOTES | ITEM NO. |
|-----|--------------|------------------------|-------------|-------------|-------|----------|
|     |              |                        |             |             |       |          |
|     |              |                        |             |             |       |          |
|     |              |                        |             |             |       |          |
|     |              |                        |             |             |       |          |

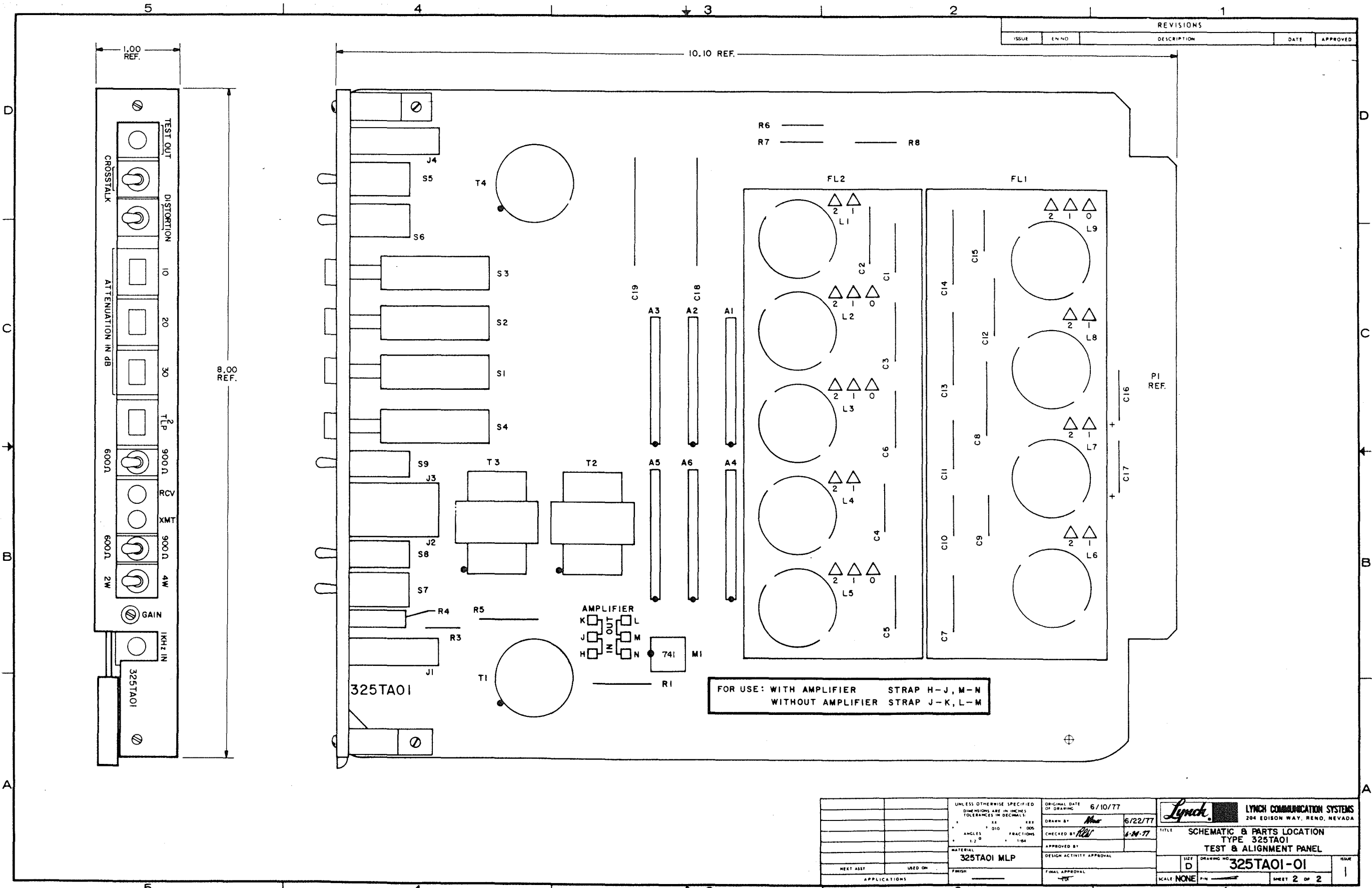
|  |                                       |
|--|---------------------------------------|
| UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES IN DECIMALS: | ORIGINAL DATE OF DRAWING: 10 JUN 77   |
| X ± .010   | DRAWN BY: [Signature] 6-13-77         |
| XX ± .005  | CHECKED BY: [Signature] 6-14-77       |
| ANGLES: ± 1/2°   | FRACTIONS: ± 1/64                     |
| MATERIAL: 325TA01 MLP  | APPROVED BY: [Signature]              |
| FINISH: [Blank]  | DESIGN ACTIVITY APPROVAL: [Signature] |
| MEET ASST: [Blank]   | USED ON: [Blank]                      |
| APPLICATIONS: [Blank]  | FINAL APPROVAL: [Signature]           |

**LYNCH COMMUNICATION SYSTEMS**  
204 EDISON WAY, RENO, NEVADA

**SCHEMATIC & PARTS LOCATION**  
TYPE 325TA01  
TEST & ALIGNMENT PANEL

SIZE: D DRAWING NO: 325TA01-01 ISSUE: 1

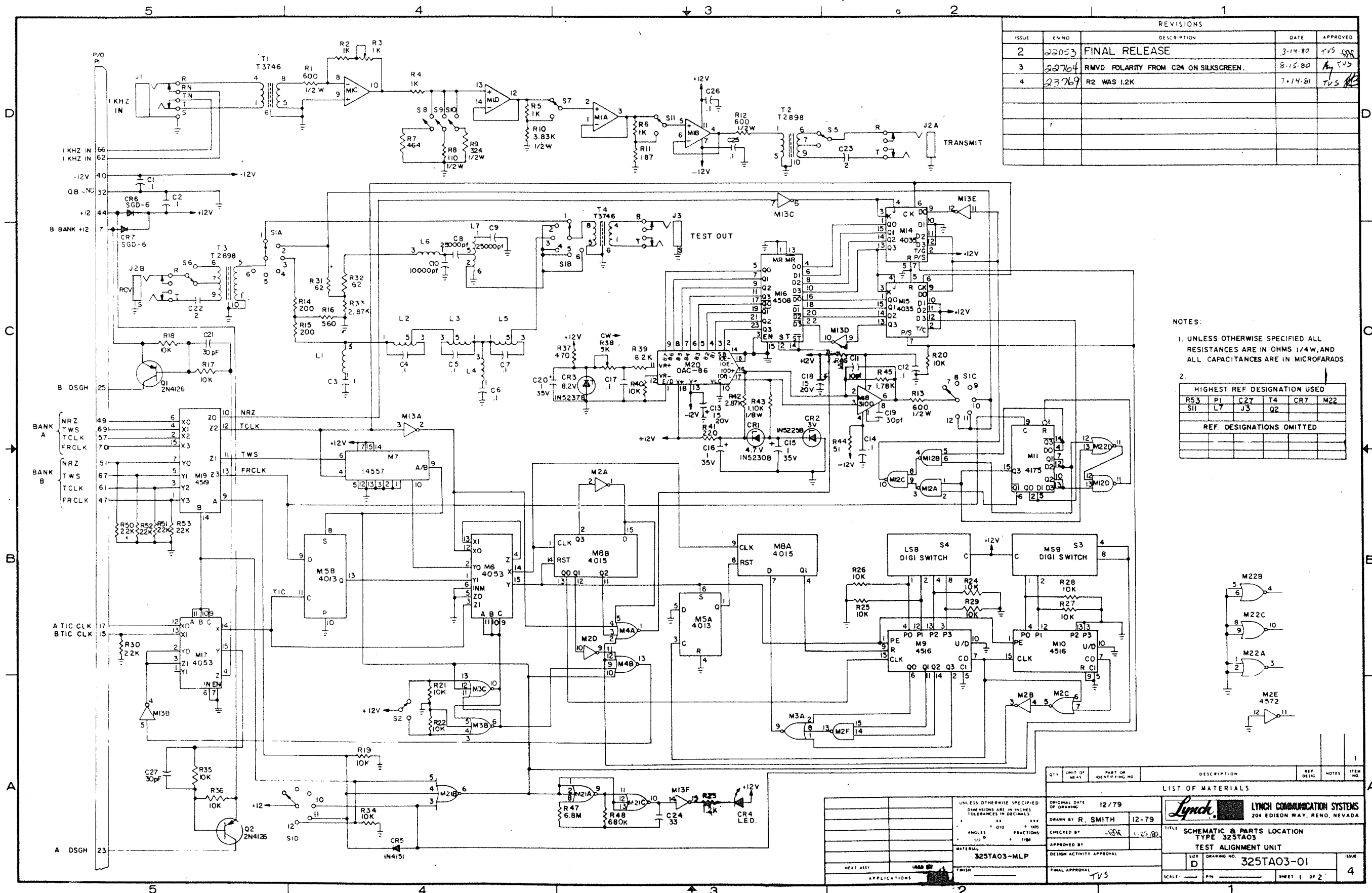
SCALE: NONE PIN: [Blank] SHEET 1 OF 2



| REVISIONS |       |             |      |          |
|-----------|-------|-------------|------|----------|
| ISSUE     | EN NO | DESCRIPTION | DATE | APPROVED |
|           |       |             |      |          |

FOR USE: WITH AMPLIFIER STRAP H-J, M-N  
 WITHOUT AMPLIFIER STRAP J-K, L-M

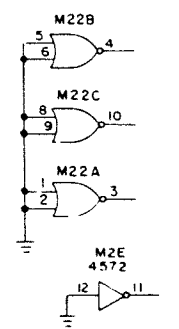
|  |                                     |   |
|--|-------------------------------------|---|
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES IN DECIMALS | ORIGINAL DATE OF DRAWING<br>6/10/77 | LYNCH COMMUNICATION SYSTEMS<br>204 EDISON WAY, RENO, NEVADA                   |
| ANGLES IN DEGREES<br>FRACTIONS   | DRAWN BY<br>6/22/77                 |   |
| MATERIAL<br>325TA01 MLP  | CHECKED BY<br>6-24-77               | TITLE<br>SCHEMATIC & PARTS LOCATION<br>TYPE 325TA01<br>TEST & ALIGNMENT PANEL |
| FINISH   | DESIGN ACTIVITY APPROVAL            | SIZE<br>D   |
| APPLICATIONS   | FINAL APPROVAL                      | DRAWING NO.<br>325TA01-01   |
|  |                                     | SCALE NONE  |
|  |                                     | SHEET 2 OF 2  |
|  |                                     | ISSUE<br>1  |



| REVISIONS |       |                                       |         |          |
|-----------|-------|---------------------------------------|---------|----------|
| ISSUE     | EN NO | DESCRIPTION                           | DATE    | APPROVED |
| 2         | 22053 | FINAL RELEASE                         | 3-14-80 | TVS      |
| 3         | 22704 | RMVD POLARITY FROM C24 ON SILKSCREEN. | 8-15-80 | TVS      |
| 4         | 23769 | R2 WAS 1.2K                           | 7-14-81 | TVS      |

NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL RESISTANCES ARE IN OHMS 1/4W, AND ALL CAPACITANCES ARE IN MICROFARADS.  
 2.

| HIGHEST REF DESIGNATION USED |    |     |    |     |     |
|------------------------------|----|-----|----|-----|-----|
| R53                          | P1 | C27 | T4 | CR7 | M22 |
| S11                          | L7 | J3  | Q2 |     |     |
| REF. DESIGNATIONS OMITTED    |    |     |    |     |     |
|                              |    |     |    |     |     |



| QTY | UNIT OF MEAS | PART OR IDENTIFYING NO | DESCRIPTION | REF | NOTES | ITEM NO |
|-----|--------------|------------------------|-------------|-----|-------|---------|
|     |              |                        |             |     |       |         |

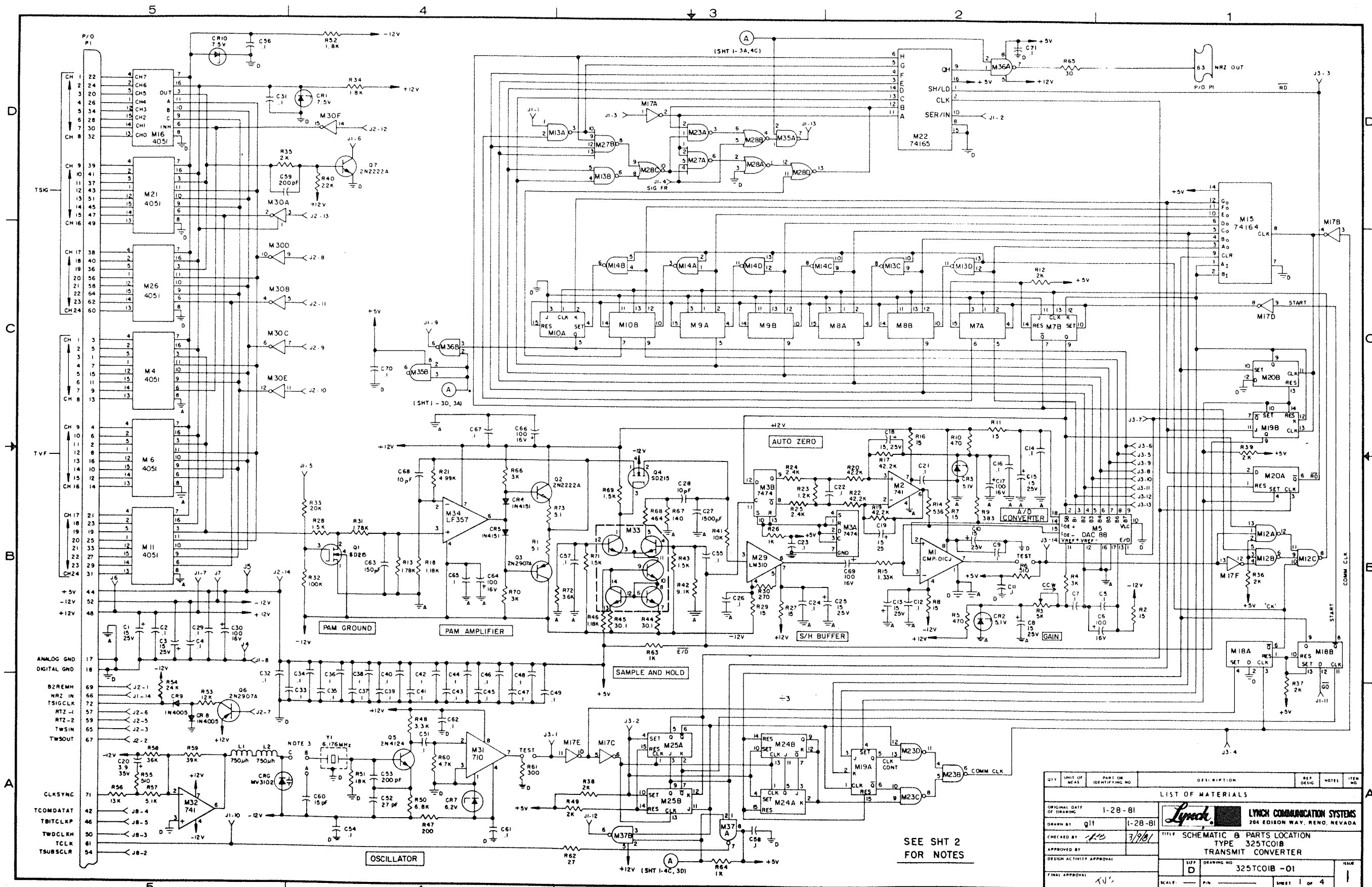
  

| LIST OF MATERIALS        |                |
|--------------------------|----------------|
| ORIGINAL DATE OF DRAWING | 12/79          |
| DRAWN BY                 | R. SMITH 12-79 |
| CHECKED BY               | 1-25-80        |
| APPROVED BY              |                |
| DESIGN ACTIVITY APPROVAL |                |
| FINAL APPROVAL           | TVS            |

| LYNCH COMMUNICATION SYSTEMS       |                        |
|-----------------------------------|------------------------|
| 204 EDISON WAY, RENO, NEVADA      |                        |
| TITLE: SCHEMATIC & PARTS LOCATION |                        |
| TYPE: 325TA03                     |                        |
| TEST ALIGNMENT UNIT               |                        |
| SIZE: D                           | DRAWING NO: 325TA03-01 |
| SCALE: PIN                        | SHEET 1 OF 2           |
|                                   | ISSUE: 4               |

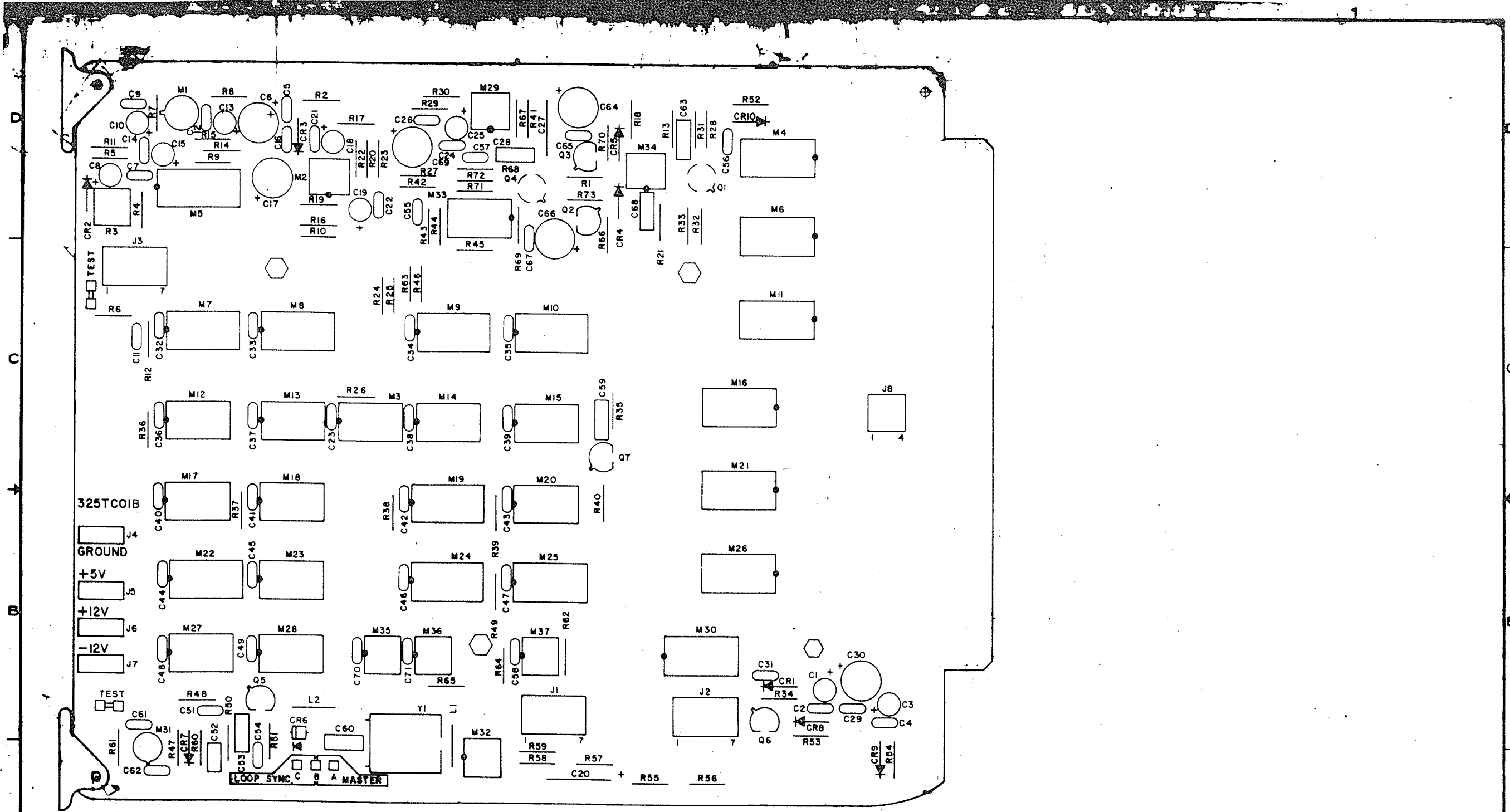




| QTY                      | UNIT OF MEAS. | PART OR IDENTIFYING NO. | DESCRIPTION | REP. DESIG.  | NOTES | ITEM NO. |
|--------------------------|---------------|-------------------------|-------------|--|-------|----------|
| LIST OF MATERIALS        |               |                         |             |  |       |          |
| ORIGINAL DATE OF DRAWING |               | 1-28-81                 |             | <b>LYNCH COMMUNICATION SYSTEMS</b><br>204 EDISON WAY, RENO, NEVADA                           |       |          |
| DRAWN BY                 |               | git 1-28-81             |             |  |       |          |
| CHECKED BY               |               | [Signature] 3/9/81      |             | <b>TITLE</b> SCHEMATIC B PARTS LOCATION<br><b>TYPE</b> 325TC01B<br><b>TRANSMIT CONVERTER</b> |       |          |
| APPROVED BY              |               | [Signature]             |             |  |       |          |
| DESIGN ACTIVITY APPROVAL |               | [Signature]             |             | <b>SUPP</b> D<br><b>DRAWING NO</b> 325TC01B -01<br><b>SCALE</b> P/N<br><b>SHEET</b> 1 of 4   |       |          |
| FINAL APPROVAL           |               | [Signature]             |             |  |       |          |

SEE SHT 2 FOR NOTES





VIEW B-B

| REV | DATE    | DESCRIPTION              | BY  | CHKD | APP'D | NOTES | ITEM NO. |
|-----|---------|--------------------------|-----|------|-------|-------|----------|
| 1   | 1-27-81 | ORIGINAL DATE OF DRAWING | SJW |      |       |       |          |
| 2   | 3/19/81 | CHECKED BY               | AB  |      |       |       |          |
| 3   |         | APPROVED BY              |     |      |       |       |          |
| 4   |         | DESIGN ACTIVITY APPROVAL |     |      |       |       |          |
| 5   |         | PRODUCTION               |     |      |       |       |          |

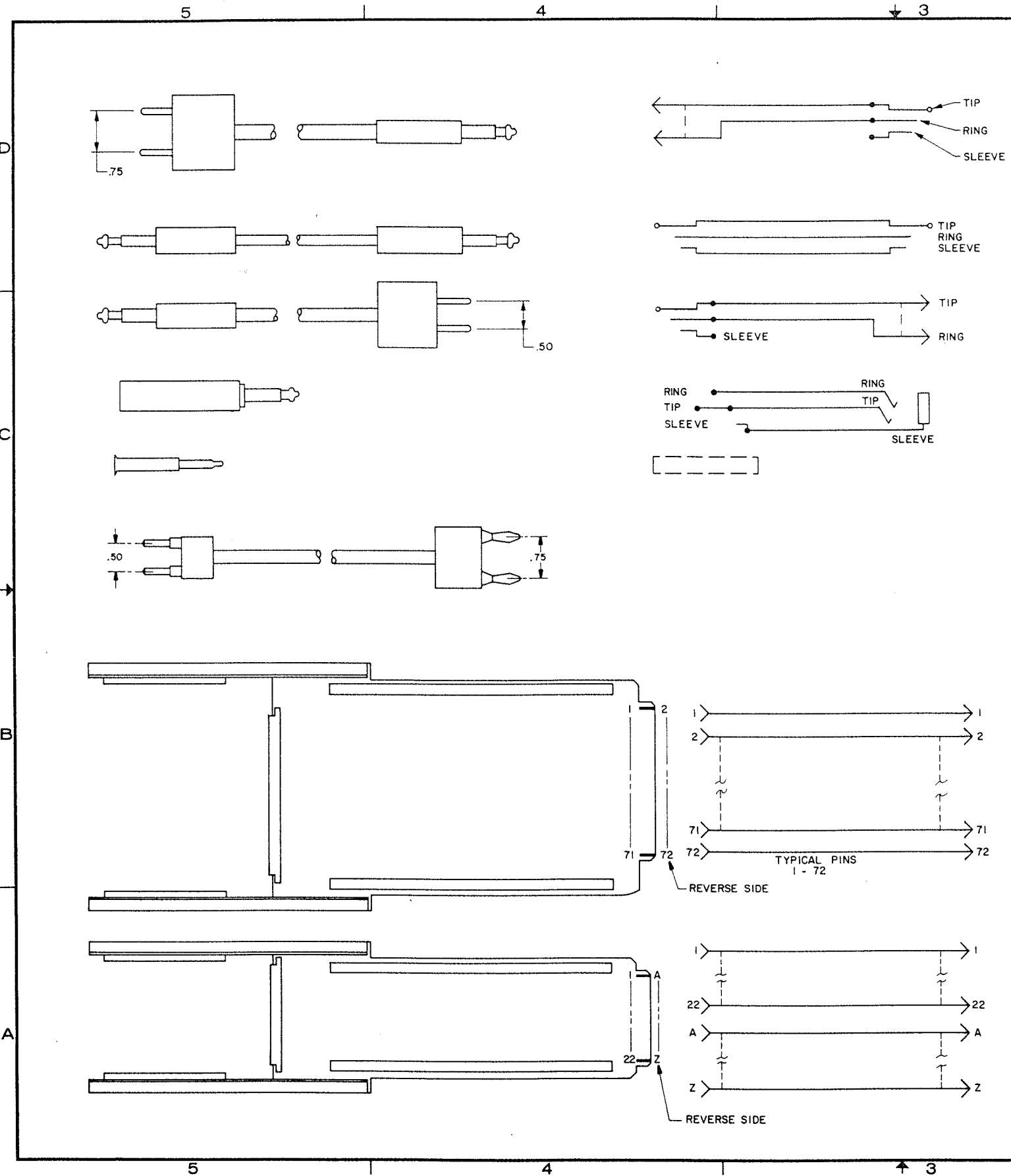
  

| LIST OF MATERIALS |              | QTY | UNIT | DESCRIPTION | REF. NO. |
|-------------------|--------------|-----|------|-------------|----------|
| 325TC0IB          | 325TC0IB-MLP |     |      |             |          |

|  |                                   |   |
|--|-----------------------------------|---|
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE AS FOLLOWS: | ORIGINAL DATE OF DRAWING: 1-27-81 | LYNCH COMMUNICATION SYSTEMS<br>204 EDISON WAY RENO NEVADA         |
| ANGLES: 13° 30'  | DRAWN BY: SJW 1-27-81             |   |
| FRACTIONS: 1/32"   | CHECKED BY: AB 3/19/81            | SCHEMATIC & PARTS LOCATION<br>TYPE 325TC0IB<br>TRANSMIT CONVERTER |
|  | APPROVED BY:                      |   |
|  | DESIGN ACTIVITY APPROVAL:         | PART NUMBER: D<br>REV: 325TC0IB-01                                |
| SCALE: NONE  | APPLICABILITY:                    | SHEET 3 OF 4  |





ITEM DESCRIPTION / PART NUMBER

- (23) CORD, MINI-TEL PLUG TO DUAL BANANA PLUG, 8 FEET, TIP & RING CONNECTION 2 REQUIRED
- (24) CORD, MINI-TEL PLUG TO MINI-TEL PLUG, 8 FEET, TIP TO TIP, RING TO RING 2 REQUIRED
- (25) CORD, MINI-TEL PLUG TO DUAL TIP PLUG, 18 INCHES, TIP & RING CONNECTION 2 REQUIRED
- (26) ADAPTER, MINI-TEL PLUG TO 310 TEL PLUG 2 REQUIRED
- (27) MINI-TEL OPENING PLUG 48 REQUIRED
- (22) CORD, DUAL PIN PLUG TO DUAL BANANA PLUG, 8 FEET, TIP & RING CONNECTION 1 REQUIRED

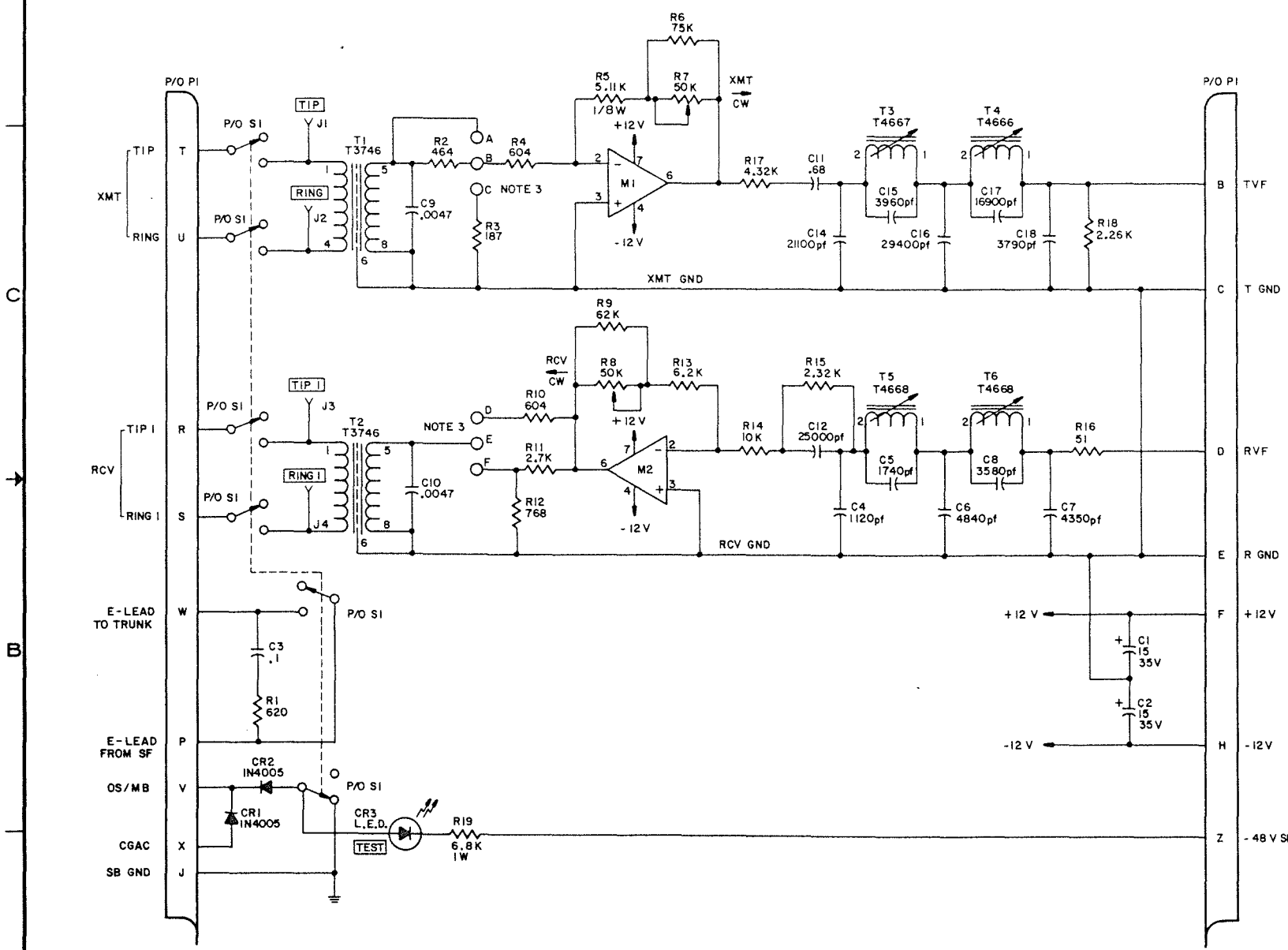
- (11) 7A3637 EXTENDER BOARD FOR COMMON EQUIPMENT 1 REQUIRED

- (12) 7A3638 EXTENDER BOARD FOR CHANNEL UNIT 1 REQUIRED

| REVISIONS |       |               |         |             |
|-----------|-------|---------------|---------|-------------|
| ISSUE     | EN NO | DESCRIPTION   | DATE    | APPROVED    |
| 1         | 19031 | FINAL RELEASE | 6/24/77 | [Signature] |
| 2         | 19716 | ADDED ITEM 22 | 11-4-77 | [Signature] |
|           |       |               |         |             |
|           |       |               |         |             |
|           |       |               |         |             |
|           |       |               |         |             |

|  |  |  |   |
|--|--|--|---|
| UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES IN DECIMALS: |  | ORIGINAL DATE OF DRAWING<br>6-9-77                                     | LYNCH COMMUNICATION SYSTEMS<br>204 EDISON WAY, RENO, NEVADA   |
| X .XX .XXX<br>° ANGLES: 1/16 1/8 1/4 3/8 1/2 5/8 3/4 7/8<br>FRACTIONS: 1/2 3/4 1/8 |  | DRAWN BY: WP 6/9/77<br>CHECKED BY: [Signature] 6-21-77<br>APPROVED BY: |   |
| MATERIAL: 325TKOI  |  | DESIGN ACTIVITY APPROVAL:  | LIST OF MATERIALS<br>QTY UNIT OF MEAS PART OR IDENTIFYING NO DESCRIPTION REF DESIG NOTES ITEM NO<br>1 1 |
| NEXT ASST USED ON APPLICATIONS FINISH  |  | FINAL APPROVAL: [Signature]  |   |
| SCALE: 1/8" = 1"   |  | SIZE: D DRAWING NO: 325TKOI-01   | ISSUE: 2  |
| P/N: 325TKOI   |  | SHEET 1 OF 1   |   |

| REVISIONS |        |               |         |          |
|-----------|--------|---------------|---------|----------|
| ISSUE     | EN NO  | DESCRIPTION   | DATE    | APPROVED |
| 1         | 203-78 | FINAL RELEASE | 8-10-78 | 117 SR   |
| 2         |        | R6 WAS 39K    | 3-17-81 | 117 SR   |
|           |        |               |         |          |
|           |        |               |         |          |
|           |        |               |         |          |
|           |        |               |         |          |
|           |        |               |         |          |
|           |        |               |         |          |
|           |        |               |         |          |



- NOTES:
- UNLESS OTHERWISE SPECIFIED ALL RESISTANCES ARE EXPRESSED IN OHMS, 1/4 WATT, AND ALL CAPACITANCES IN MICROFARADS.
  - HIGHEST REFERENCE DESIGNATIONS
- | C18                            | CR3 | M2 | P1 | S1 | T6 | R19 |
|--------------------------------|-----|----|----|----|----|-----|
|                                |     |    |    |    |    |     |
| REFERENCE DESIGNATIONS OMITTED |     |    |    |    |    |     |
|                                |     |    |    |    |    |     |
|                                |     |    |    |    |    |     |
- VF LEVEL OPTIONS
- | XMT (INPUT)                | RCV (OUTPUT)                 |
|----------------------------|------------------------------|
| -17 TO -4 dBm<br>STRAP A-B | -17 TO -5.5 dBm<br>STRAP E-F |
| -4 TO +8 dBm<br>STRAP B-C  | -5.5 TO +8 dBm<br>STRAP D-E  |
- S1 SHOWN IN BUSY CONDITION.

| LIST OF MATERIALS |              |                        |             |           |       |          |
|-------------------|--------------|------------------------|-------------|-----------|-------|----------|
| QTY               | UNIT OF MEAS | PART OR IDENTIFYING NO | DESCRIPTION | REF DESIG | NOTES | ITEM NO. |
|                   |              |                        |             |           |       |          |
|                   |              |                        |             |           |       |          |
|                   |              |                        |             |           |       |          |

|   |                                  |  |
|---|----------------------------------|--|
| UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES IN DECIMALS:<br>X .10<br>Y .010<br>Z .005<br>ANGLES: 1/2°<br>FRACTIONS: 1/16" | ORIGINAL DATE OF DRAWING: 7/5/78 | LYNCH COMMUNICATION SYSTEMS<br>204 EDISON WAY, RENO, NEVADA<br>TITLE: SCHEMATIC & PARTS LOCATION TYPE 325VFO1 600Ω 4 WIRE NO SIG. CHANNEL UNIT<br>DESIGN NO: 325VFO1-01<br>SCALE: NONE<br>SHEET 1 OF 2 |
| DRAWN BY: MCE 7/5/78  | CHECKED BY: SR 7-19-78           |  |
| APPROVED BY:  | DESIGN ACTIVITY APPROVAL:        |  |
| FINAL APPROVAL:   |                                  |  |

