

|        |          |        |          |        |          |        |          |        |          |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|
| REV. 1 | DATE     | REV. 2 | DATE     | REV. 3 | DATE     | REV. 4 | DATE     | REV. 5 | DATE     |
| 1      | 10/26/78 | 2      | 11/13/78 | 3      | 11/13/78 | 4      | 11/13/78 | 5      | 11/13/78 |
| 6      | 11/13/78 | 7      | 11/13/78 | 8      | 11/13/78 | 9      | 11/13/78 | 10     | 11/13/78 |

|      |       |        |         |           |         |                |          |          |          |
|------|-------|--------|---------|-----------|---------|----------------|----------|----------|----------|
| FORM | LIT   | ECO NO | REV. NO | REV. DATE | REV. BY | REV. REASON    | DATE     | DATE     | DATE     |
| 1    | 10863 | 1      | 1       | 10/26/78  | 1       | INITIAL DESIGN | 10/26/78 | 10/26/78 | 10/26/78 |
| 2    | 11037 | 1      | 1       | 11/13/78  | 1       | REVISION       | 11/13/78 | 11/13/78 | 11/13/78 |
| 3    | 11191 | 1      | 1       | 11/13/78  | 1       | REVISION       | 11/13/78 | 11/13/78 | 11/13/78 |
| 4    | 11292 | 1      | 1       | 11/13/78  | 1       | REVISION       | 11/13/78 | 11/13/78 | 11/13/78 |
| 5    | 11298 | 1      | 1       | 11/13/78  | 1       | REVISION       | 11/13/78 | 11/13/78 | 11/13/78 |
| 6    | 11344 | 1      | 1       | 11/13/78  | 1       | REVISION       | 11/13/78 | 11/13/78 | 11/13/78 |

|                           |       |       |       |       |       |       |       |       |       |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| DO NOT SCALE THIS DRAWING | SCALE | SCALE | SCALE | SCALE | SCALE | SCALE | SCALE | SCALE | SCALE |
| 1:1                       | 1:1   | 1:1   | 1:1   | 1:1   | 1:1   | 1:1   | 1:1   | 1:1   | 1:1   |

|                       |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|-----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| UNIVERSITY MICROFILMS | SERIALS ACQUISITION | SERIALS ACQUISITION | SERIALS ACQUISITION | SERIALS ACQUISITION | SERIALS ACQUISITION | SERIALS ACQUISITION | SERIALS ACQUISITION | SERIALS ACQUISITION | SERIALS ACQUISITION |
| 1                     | 1                   | 1                   | 1                   | 1                   | 1                   | 1                   | 1                   | 1                   | 1                   |

|                                     |                                 |
|-------------------------------------|---------------------------------|
| HIGHEST SCHEMATIC DESIGNATIONS USED | SCHEMATIC DESIGNATIONS NOT USED |
| VR105, C135, U127, T105, Q134       | PI001, PI004, R152, R155        |

**NOTES:**

- ALL RESISTOR VALUES ARE IN OHMS UNLESS OTHERWISE MARKED (K-KILOHMS, M-MEGOHMS).
- ALL CAPACITOR VALUES ARE IN MICROFARADS UNLESS OTHERWISE MARKED (P-PICOFARADS).
- ALL PUSHBUTTON SWITCHES ARE SHOWN IN THE PUSHBUTTON OUT POSITION.
- ∇ DENOTES ANALOG COMMON.
- ∇ DENOTES DIGITAL COMMON.
- ∇ DENOTES SIGNAL COMMON.
- DENOTES FRONT PANEL CONTROL.
- DENOTES REAR PANEL MOUNTING.
- ∇ DENOTES A/D COMMON.

Figure 6-4. Mother Board, Schematic Diagram, Dwg. No. 580-106 (sheet 1 of 2)

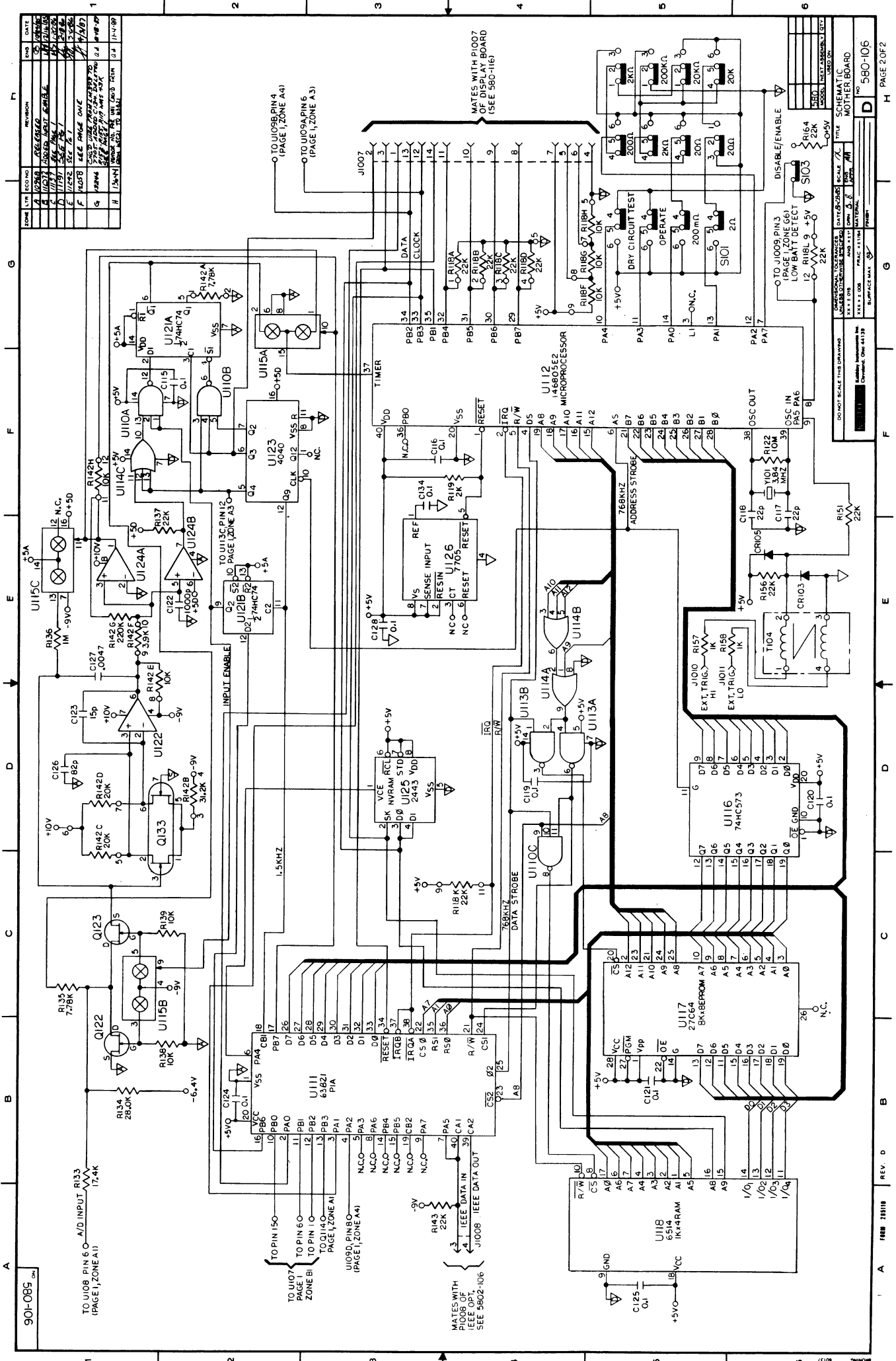


Figure 6-4. Mother Board, Schematic Diagram, Dwg. No. 580-106 (sheet 2 of 2)

| DATE     | BY       | CHKD     | REV | DESCRIPTION               |
|----------|----------|----------|-----|---------------------------|
| 11/10/88 | J. J. J. | J. J. J. | 1   | INITIAL DESIGN            |
| 11/15/88 | J. J. J. | J. J. J. | 2   | REVISED FOR BOARD CHANGES |
| 11/20/88 | J. J. J. | J. J. J. | 3   | REVISED FOR BOARD CHANGES |
| 11/25/88 | J. J. J. | J. J. J. | 4   | REVISED FOR BOARD CHANGES |
| 12/01/88 | J. J. J. | J. J. J. | 5   | REVISED FOR BOARD CHANGES |
| 12/05/88 | J. J. J. | J. J. J. | 6   | REVISED FOR BOARD CHANGES |
| 12/10/88 | J. J. J. | J. J. J. | 7   | REVISED FOR BOARD CHANGES |
| 12/15/88 | J. J. J. | J. J. J. | 8   | REVISED FOR BOARD CHANGES |
| 12/20/88 | J. J. J. | J. J. J. | 9   | REVISED FOR BOARD CHANGES |
| 12/25/88 | J. J. J. | J. J. J. | 10  | REVISED FOR BOARD CHANGES |
| 1/01/89  | J. J. J. | J. J. J. | 11  | REVISED FOR BOARD CHANGES |
| 1/05/89  | J. J. J. | J. J. J. | 12  | REVISED FOR BOARD CHANGES |
| 1/10/89  | J. J. J. | J. J. J. | 13  | REVISED FOR BOARD CHANGES |
| 1/15/89  | J. J. J. | J. J. J. | 14  | REVISED FOR BOARD CHANGES |
| 1/20/89  | J. J. J. | J. J. J. | 15  | REVISED FOR BOARD CHANGES |
| 1/25/89  | J. J. J. | J. J. J. | 16  | REVISED FOR BOARD CHANGES |
| 2/01/89  | J. J. J. | J. J. J. | 17  | REVISED FOR BOARD CHANGES |
| 2/05/89  | J. J. J. | J. J. J. | 18  | REVISED FOR BOARD CHANGES |
| 2/10/89  | J. J. J. | J. J. J. | 19  | REVISED FOR BOARD CHANGES |
| 2/15/89  | J. J. J. | J. J. J. | 20  | REVISED FOR BOARD CHANGES |
| 2/20/89  | J. J. J. | J. J. J. | 21  | REVISED FOR BOARD CHANGES |
| 2/25/89  | J. J. J. | J. J. J. | 22  | REVISED FOR BOARD CHANGES |
| 3/01/89  | J. J. J. | J. J. J. | 23  | REVISED FOR BOARD CHANGES |
| 3/05/89  | J. J. J. | J. J. J. | 24  | REVISED FOR BOARD CHANGES |
| 3/10/89  | J. J. J. | J. J. J. | 25  | REVISED FOR BOARD CHANGES |
| 3/15/89  | J. J. J. | J. J. J. | 26  | REVISED FOR BOARD CHANGES |
| 3/20/89  | J. J. J. | J. J. J. | 27  | REVISED FOR BOARD CHANGES |
| 3/25/89  | J. J. J. | J. J. J. | 28  | REVISED FOR BOARD CHANGES |
| 4/01/89  | J. J. J. | J. J. J. | 29  | REVISED FOR BOARD CHANGES |
| 4/05/89  | J. J. J. | J. J. J. | 30  | REVISED FOR BOARD CHANGES |
| 4/10/89  | J. J. J. | J. J. J. | 31  | REVISED FOR BOARD CHANGES |
| 4/15/89  | J. J. J. | J. J. J. | 32  | REVISED FOR BOARD CHANGES |
| 4/20/89  | J. J. J. | J. J. J. | 33  | REVISED FOR BOARD CHANGES |
| 4/25/89  | J. J. J. | J. J. J. | 34  | REVISED FOR BOARD CHANGES |
| 5/01/89  | J. J. J. | J. J. J. | 35  | REVISED FOR BOARD CHANGES |
| 5/05/89  | J. J. J. | J. J. J. | 36  | REVISED FOR BOARD CHANGES |
| 5/10/89  | J. J. J. | J. J. J. | 37  | REVISED FOR BOARD CHANGES |
| 5/15/89  | J. J. J. | J. J. J. | 38  | REVISED FOR BOARD CHANGES |
| 5/20/89  | J. J. J. | J. J. J. | 39  | REVISED FOR BOARD CHANGES |
| 5/25/89  | J. J. J. | J. J. J. | 40  | REVISED FOR BOARD CHANGES |
| 6/01/89  | J. J. J. | J. J. J. | 41  | REVISED FOR BOARD CHANGES |
| 6/05/89  | J. J. J. | J. J. J. | 42  | REVISED FOR BOARD CHANGES |
| 6/10/89  | J. J. J. | J. J. J. | 43  | REVISED FOR BOARD CHANGES |
| 6/15/89  | J. J. J. | J. J. J. | 44  | REVISED FOR BOARD CHANGES |
| 6/20/89  | J. J. J. | J. J. J. | 45  | REVISED FOR BOARD CHANGES |
| 6/25/89  | J. J. J. | J. J. J. | 46  | REVISED FOR BOARD CHANGES |
| 7/01/89  | J. J. J. | J. J. J. | 47  | REVISED FOR BOARD CHANGES |
| 7/05/89  | J. J. J. | J. J. J. | 48  | REVISED FOR BOARD CHANGES |
| 7/10/89  | J. J. J. | J. J. J. | 49  | REVISED FOR BOARD CHANGES |
| 7/15/89  | J. J. J. | J. J. J. | 50  | REVISED FOR BOARD CHANGES |
| 7/20/89  | J. J. J. | J. J. J. | 51  | REVISED FOR BOARD CHANGES |
| 7/25/89  | J. J. J. | J. J. J. | 52  | REVISED FOR BOARD CHANGES |
| 8/01/89  | J. J. J. | J. J. J. | 53  | REVISED FOR BOARD CHANGES |
| 8/05/89  | J. J. J. | J. J. J. | 54  | REVISED FOR BOARD CHANGES |
| 8/10/89  | J. J. J. | J. J. J. | 55  | REVISED FOR BOARD CHANGES |
| 8/15/89  | J. J. J. | J. J. J. | 56  | REVISED FOR BOARD CHANGES |
| 8/20/89  | J. J. J. | J. J. J. | 57  | REVISED FOR BOARD CHANGES |
| 8/25/89  | J. J. J. | J. J. J. | 58  | REVISED FOR BOARD CHANGES |
| 9/01/89  | J. J. J. | J. J. J. | 59  | REVISED FOR BOARD CHANGES |
| 9/05/89  | J. J. J. | J. J. J. | 60  | REVISED FOR BOARD CHANGES |
| 9/10/89  | J. J. J. | J. J. J. | 61  | REVISED FOR BOARD CHANGES |
| 9/15/89  | J. J. J. | J. J. J. | 62  | REVISED FOR BOARD CHANGES |
| 9/20/89  | J. J. J. | J. J. J. | 63  | REVISED FOR BOARD CHANGES |
| 9/25/89  | J. J. J. | J. J. J. | 64  | REVISED FOR BOARD CHANGES |
| 10/01/89 | J. J. J. | J. J. J. | 65  | REVISED FOR BOARD CHANGES |
| 10/05/89 | J. J. J. | J. J. J. | 66  | REVISED FOR BOARD CHANGES |
| 10/10/89 | J. J. J. | J. J. J. | 67  | REVISED FOR BOARD CHANGES |
| 10/15/89 | J. J. J. | J. J. J. | 68  | REVISED FOR BOARD CHANGES |
| 10/20/89 | J. J. J. | J. J. J. | 69  | REVISED FOR BOARD CHANGES |
| 10/25/89 | J. J. J. | J. J. J. | 70  | REVISED FOR BOARD CHANGES |
| 11/01/89 | J. J. J. | J. J. J. | 71  | REVISED FOR BOARD CHANGES |
| 11/05/89 | J. J. J. | J. J. J. | 72  | REVISED FOR BOARD CHANGES |
| 11/10/89 | J. J. J. | J. J. J. | 73  | REVISED FOR BOARD CHANGES |
| 11/15/89 | J. J. J. | J. J. J. | 74  | REVISED FOR BOARD CHANGES |
| 11/20/89 | J. J. J. | J. J. J. | 75  | REVISED FOR BOARD CHANGES |
| 11/25/89 | J. J. J. | J. J. J. | 76  | REVISED FOR BOARD CHANGES |
| 12/01/89 | J. J. J. | J. J. J. | 77  | REVISED FOR BOARD CHANGES |
| 12/05/89 | J. J. J. | J. J. J. | 78  | REVISED FOR BOARD CHANGES |
| 12/10/89 | J. J. J. | J. J. J. | 79  | REVISED FOR BOARD CHANGES |
| 12/15/89 | J. J. J. | J. J. J. | 80  | REVISED FOR BOARD CHANGES |