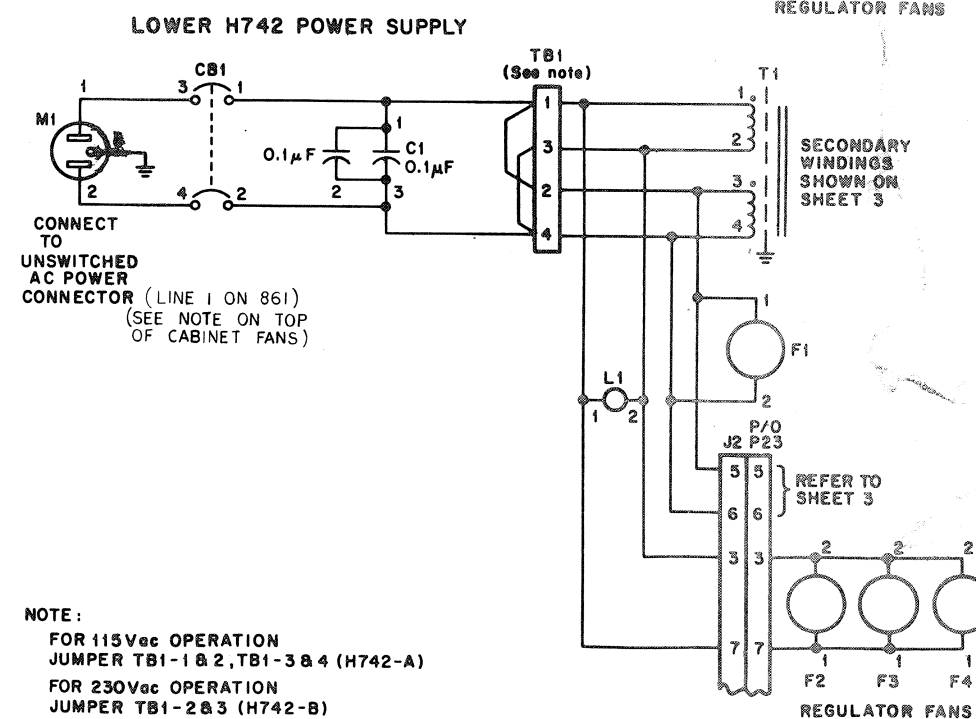
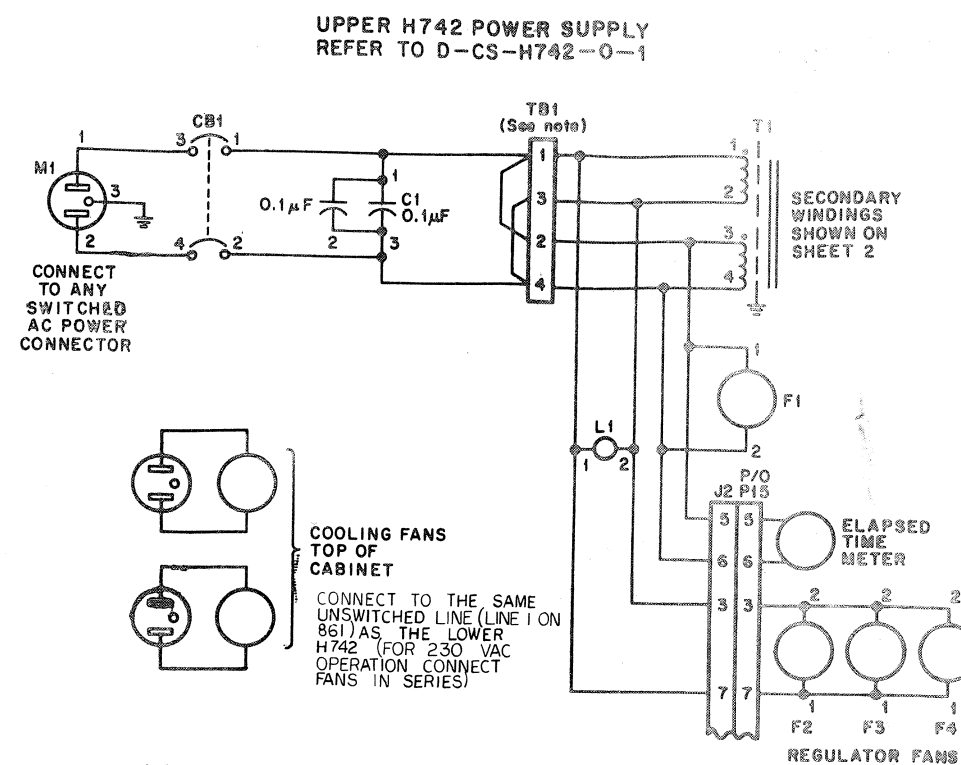
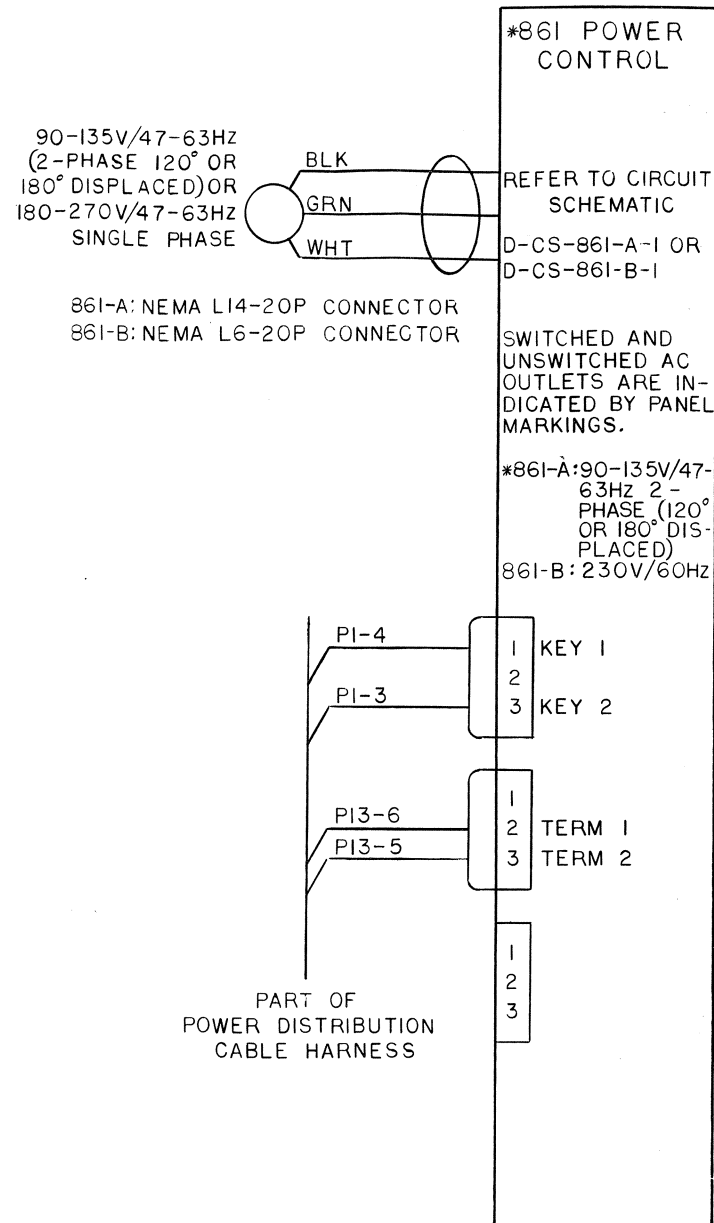


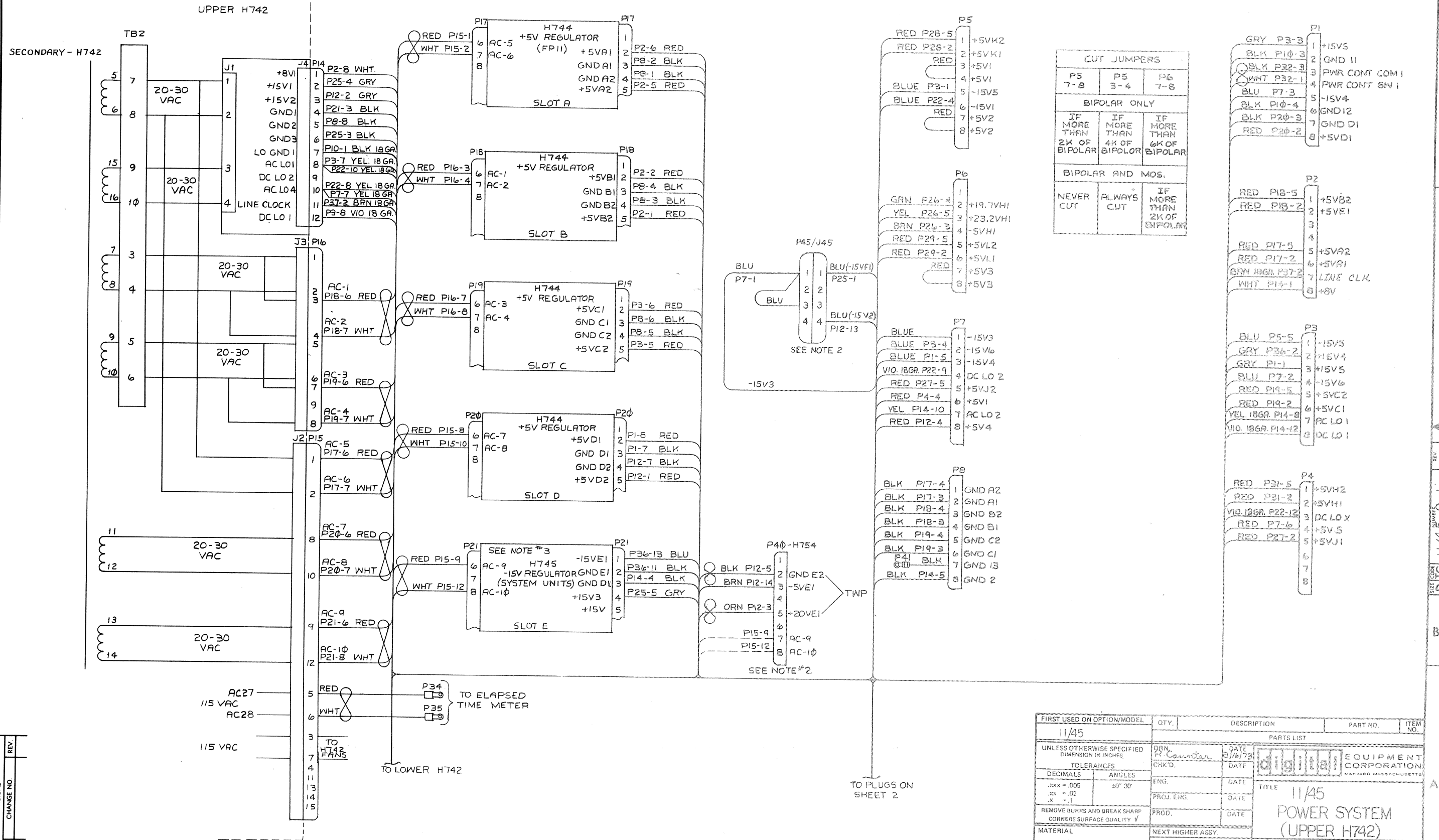
1. FOR 11/45 SYSTEMS BUILT WITH 860  
POWER CONTROLS, REFER TO D-IC-11/45-0-1  
REV. A DRAWING.



**NOTE:**  
FOR 115Vac OPERATION  
JUMPER TB1-1 & 2, TB1-3 & 4 (H742-A)  
FOR 230Vac OPERATION  
JUMPER TB1-2 & 3 (H742-B)

|                                                                  |          |                   |             |                                                                                                                                             |           |     |          |
|------------------------------------------------------------------|----------|-------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----|----------|
| FIRST USED ON OPTION/MODEL                                       |          | QTY.              | DESCRIPTION |                                                                                                                                             | PART NO.  |     | ITEM NO. |
| 11/45                                                            |          |                   |             |                                                                                                                                             |           |     |          |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSION IN INCHES.<br>TOLERANCES |          | DRN.              | DATE        | <div style="border: 1px solid black; padding: 5px;"> <b>digital</b> EQUIPMENT CORPORATION<br/> <small>MAYNARD, MASSACHUSETTS</small> </div> |           |     |          |
|                                                                  |          | CHKD.             | DATE        |                                                                                                                                             |           |     |          |
| DECIMALS                                                         | ANGLES   | ENG.              | DATE        | TITLE                                                                                                                                       |           |     |          |
| .XXX ± .005<br>.XX ± .02<br>.X ± .1                              | ± 0° 30' | PROJ. ENG.        | DATE        |                                                                                                                                             |           |     |          |
| REMOVE BURRS AND BREAK SHARP<br>CORNERS SURFACE QUALITY ✓        |          | PROD.             | DATE        | POWER SYSTEMS<br>CONFIGURATION                                                                                                              |           |     |          |
|                                                                  |          |                   | DATE        |                                                                                                                                             |           |     |          |
| MATERIAL                                                         |          | NEXT HIGHER ASSY. |             | SIZE CODE                                                                                                                                   | NUMBER    | REV |          |
| +                                                                |          | B-DD-11/45-Ø      |             | DIC                                                                                                                                         | 11/45-Ø-1 | E   |          |
| FINISH                                                           |          | SCALE             |             | DIST.                                                                                                                                       |           |     |          |
| +                                                                |          | SHEET             | OF 5        |                                                                                                                                             |           |     |          |

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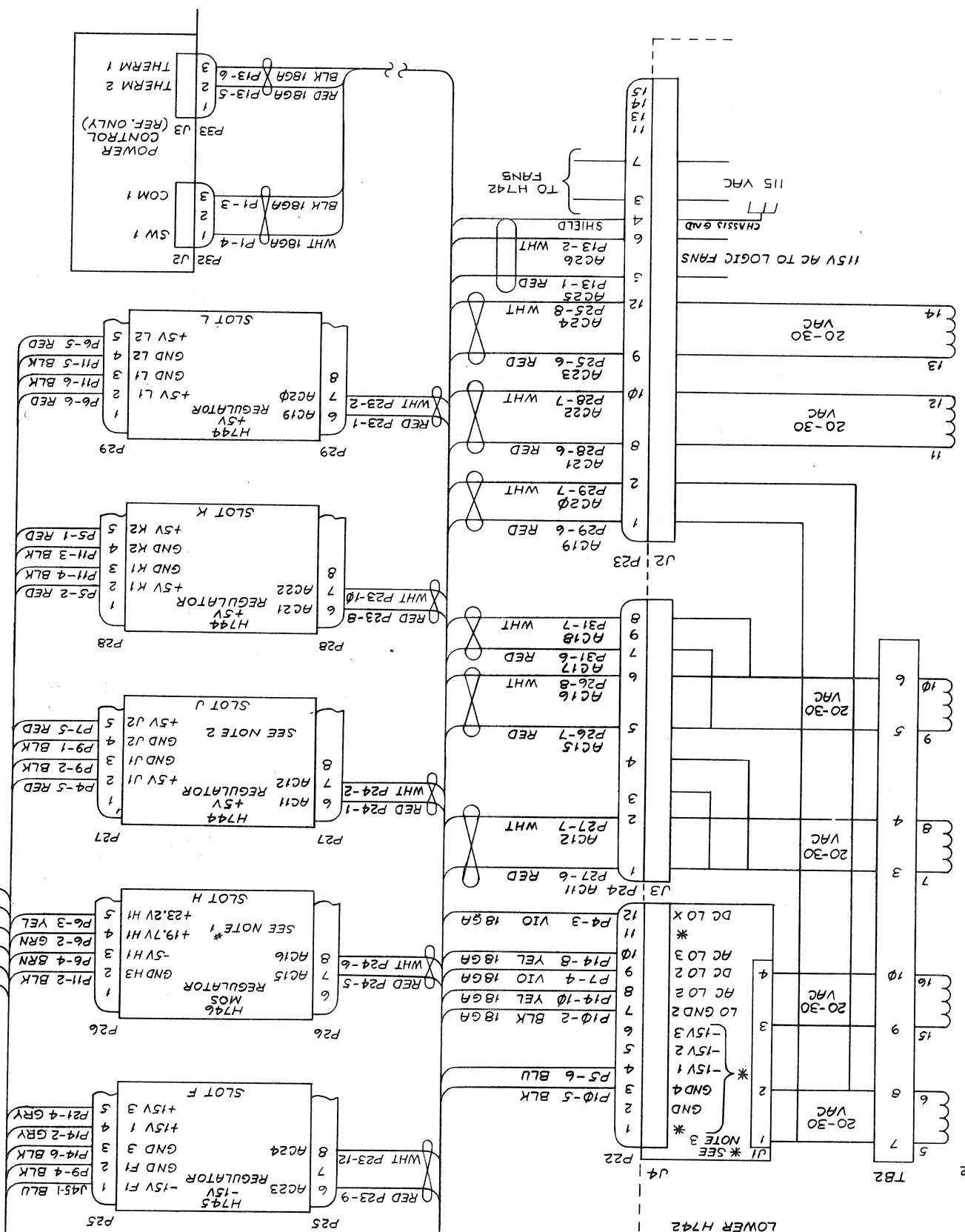
| FIRST USED ON OPTION/MODEL                                | QTY.    | DESCRIPTION       | PART NO. | ITEM NO. |
|-----------------------------------------------------------|---------|-------------------|----------|----------|
| 11/45                                                     |         |                   |          |          |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSION IN INCHES         |         |                   |          |          |
| TOLERANCES                                                |         |                   |          |          |
| DECIMALS                                                  | ANGLES  |                   |          |          |
| .xxx = .005                                               | 10° 30' |                   |          |          |
| .xx = .02                                                 |         |                   |          |          |
| .x = .1                                                   |         |                   |          |          |
| REMOVE BURRS AND BREAK SHARP<br>CORNERS SURFACE QUALITY V |         |                   |          |          |
| MATERIAL                                                  |         | NEXT HIGHER ASSY. |          |          |
| FINISH                                                    |         | SCALE NONE        |          |          |
| SHEET 2 OF 5                                              |         | DIST.             |          |          |
| PARTS LIST                                                |         |                   |          |          |
| DATE 8/16/73                                              |         |                   |          |          |
| CHK'D.                                                    |         |                   |          |          |
| DATE                                                      |         |                   |          |          |
| ENG.                                                      |         |                   |          |          |
| DATE                                                      |         |                   |          |          |
| PROJ. ENG.                                                |         |                   |          |          |
| DATE                                                      |         |                   |          |          |
| PROD.                                                     |         |                   |          |          |
| DATE                                                      |         |                   |          |          |
| TITLE 11/45                                               |         |                   |          |          |
| POWER SYSTEM                                              |         |                   |          |          |
| (UPPER H742)                                              |         |                   |          |          |
| SIZE CODE                                                 |         |                   |          |          |
| NUMBER                                                    |         |                   |          |          |
| REV. E                                                    |         |                   |          |          |

| REV | CHANGE NO | REVISIONS |
|-----|-----------|-----------|
|     |           |           |

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SECONDARY - H742

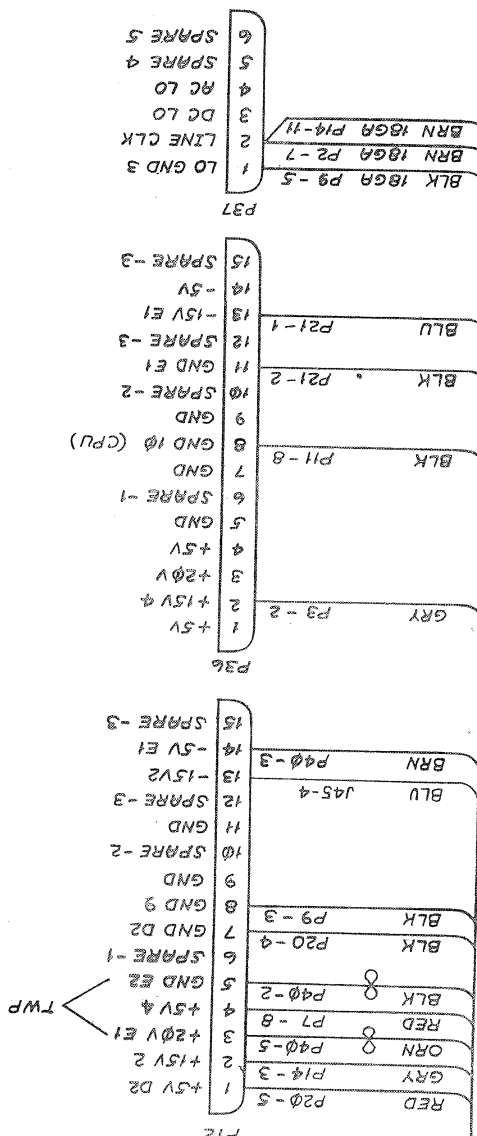
LOWER H742



- NOTES:
1. IF BIPOLAR MEMORY IS USED H746 IN SLOT H IS REPLACED BY H744 AND CONN-ECTOR P31 IS USED INSTEAD OF P26.
  2. IF MEMORY OR OTHER OPTION REQUIRING +20V & -5V IS INSTALLED IN SYSTEM UNIT LOCATION, REPLACE SLOT E - H745 WITH H754 AND USE P40 INSTEAD OF P21. ALSO MOVE AC WIRES FROM P21-6, 8 TO P40-7, 8. TO PERMIT INSTALLATION OF OPTIONS REQUIRING -15V IN SYSTEM UNIT, MOVE JUMPER FROM P45 PIN 3 TO P45-PIN 4.
  3. (X) -15V OF H742 RECONFIGURED AT P22/J4 TO PROVIDE -15V. THEREFORE LINE CLOCK AND +8V OUTPUTS OF THIS H742 MUST NOT BE USED.

SHIELD CONNECTED AT P23 ONLY

AC25 TO LOGIC FANS  
AC26 TO THERMAL  
THERM 1 SWITCH  
THERM 2 TO THERMAL

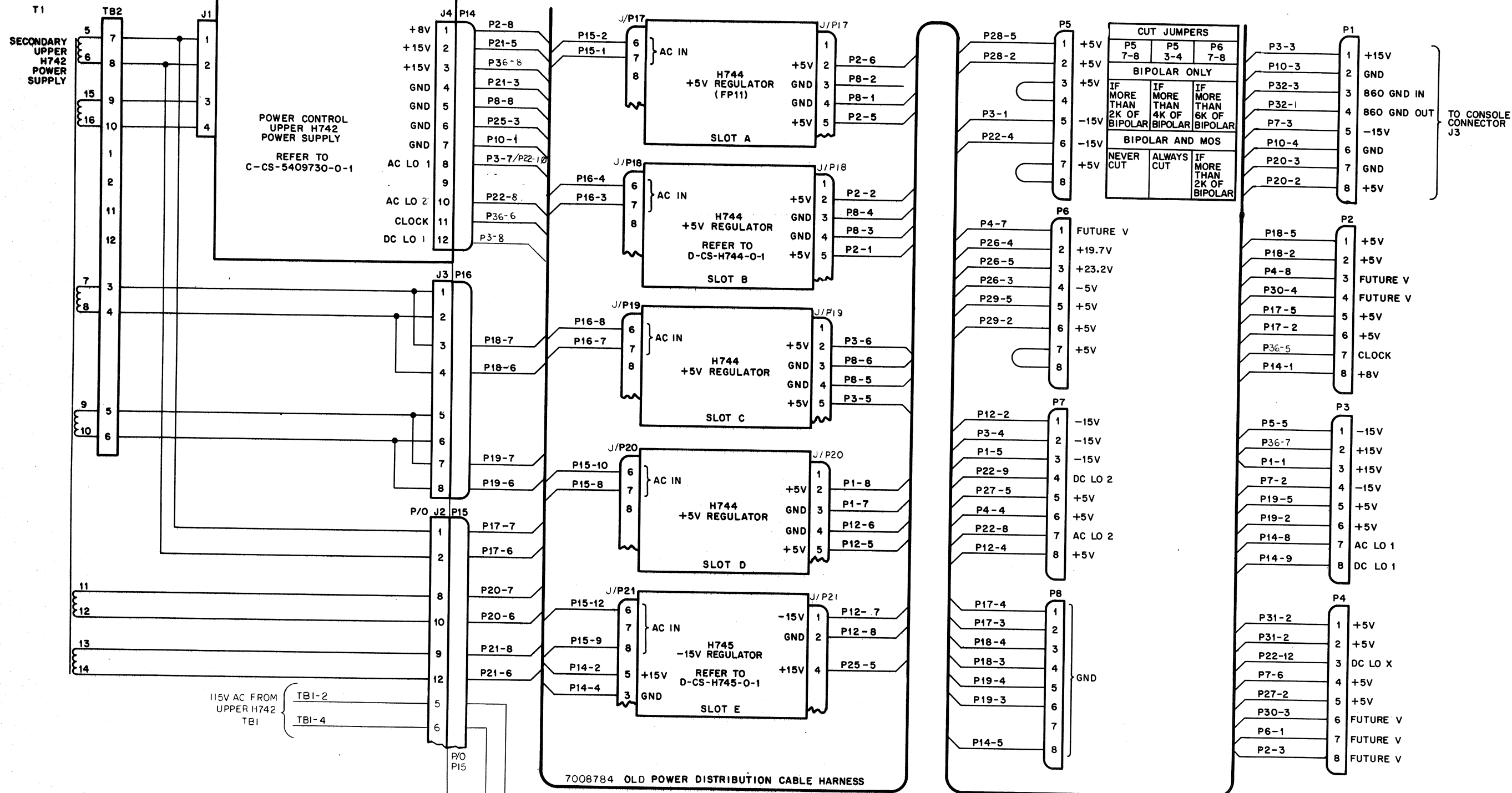


|                               |             |          |          |
|-------------------------------|-------------|----------|----------|
| FIRST USED ON OPTION/MODEL    |             | 11/45    |          |
| QTY.                          | DESCRIPTION | PART NO. | ITEM NO. |
| PARTS LIST                    |             |          |          |
| UNLESS OTHERWISE SPECIFIED    |             |          |          |
| DIMENSION IN INCHES           |             |          |          |
| TOLERANCES                    |             |          |          |
| DECIMALS                      |             |          |          |
| ANGLES                        |             |          |          |
| ±0° 30'                       |             |          |          |
| REMOVE BURRS AND BREAK SHARP  |             |          |          |
| CORNER SURFACE QUALITY        |             |          |          |
| NEXT HIGHER ASSY.             |             |          |          |
| FINISH                        |             |          |          |
| SCALE                         |             |          |          |
| SHEET 3 OF 5                  |             |          |          |
| DIST.                         |             |          |          |
| REV. E                        |             |          |          |
| NUMBER 11/45-0-1              |             |          |          |
| POWER SYSTEM (LOWER H742)     |             |          |          |
| 11/45                         |             |          |          |
| DIGITAL EQUIPMENT CORPORATION |             |          |          |
| WARD MAZUCHESKI               |             |          |          |

|        |           |
|--------|-----------|
| REV    | 3         |
| NUMBER | 1-0-54/11 |
| SIZE   | D         |
| CODE   | 11/45-0-1 |
| REV    | E         |

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# UPPER H742 POWER SUPPLY



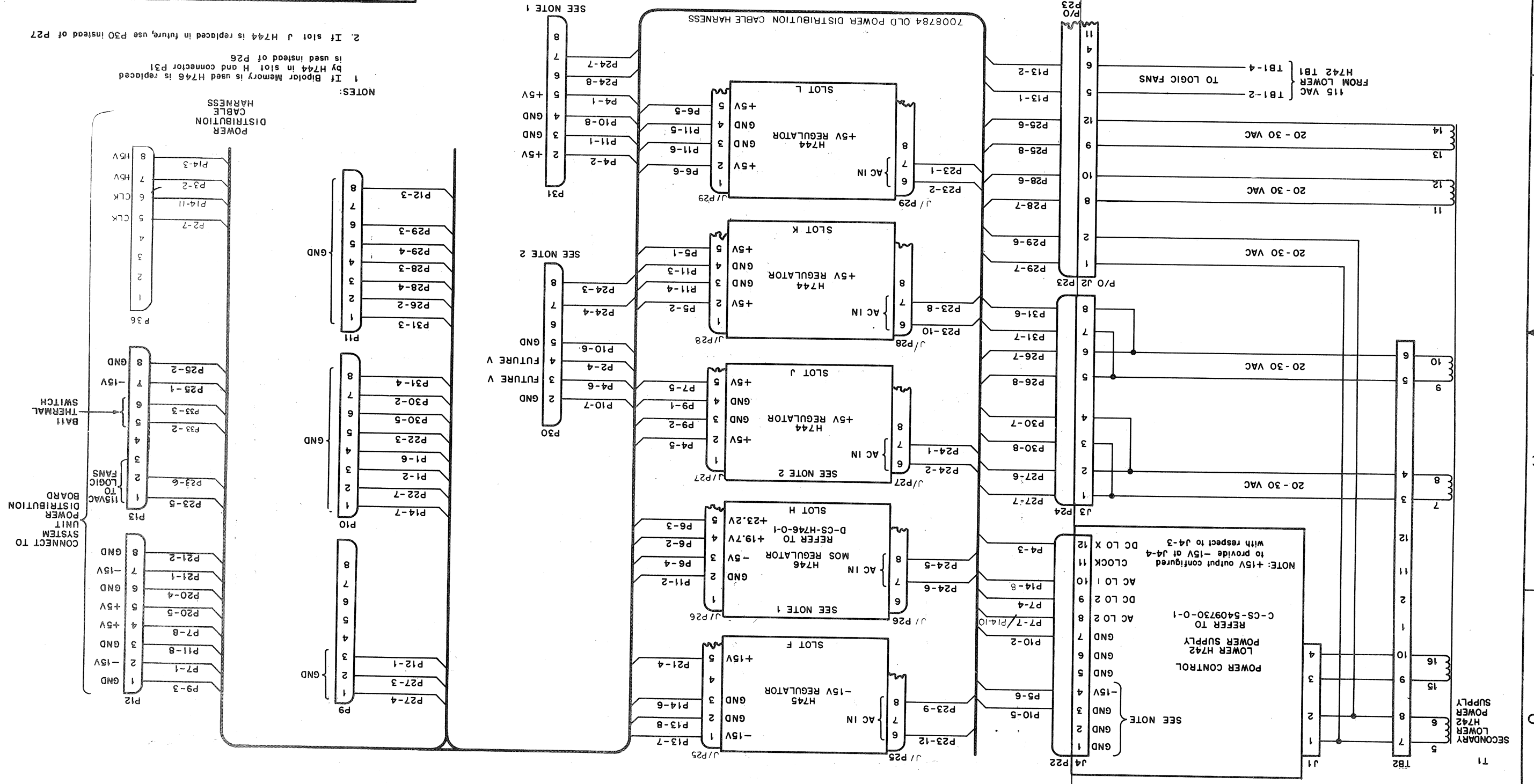
THIS SHEET APPLIES TO MACHINES WITH SERIAL NUMBERS LESS THAN 2000.

| FIRST USED ON OPTION/MODEL                                | QTY.    | DESCRIPTION | PART NO. | ITEM NO. |
|-----------------------------------------------------------|---------|-------------|----------|----------|
| 11/45                                                     |         |             |          |          |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES |         |             |          |          |
| DECIMALS                                                  | ANGLES  | DATE        |          |          |
| .XXX = .005                                               | ±0° 30' | DATE        |          |          |
| .XX = .02                                                 |         | DATE        |          |          |
| .X = .1                                                   |         | DATE        |          |          |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY      |         |             |          |          |
| MATERIAL                                                  |         |             |          |          |
| FINISH                                                    |         |             |          |          |
| NEXT HIGHER ASSY.                                         |         |             |          |          |
| B-DD-11/45-0                                              |         |             |          |          |
| SCALE                                                     |         |             |          |          |
| SHEET 4 OF 5                                              |         |             |          |          |
| TITLE                                                     |         |             |          |          |
| digital EQUIPMENT CORPORATION                             |         |             |          |          |
| OLD POWER SYSTEMS CONFIGURATION                           |         |             |          |          |
| SIZE CODE                                                 |         |             |          |          |
| NUMBER                                                    |         |             |          |          |
| REV.                                                      |         |             |          |          |
| D IC 11/45-0-1                                            |         |             |          |          |
| DIST.                                                     |         |             |          |          |



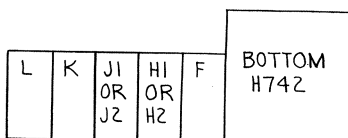
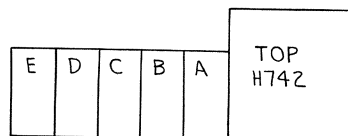
|   |   |                   |                     |           |
|---|---|-------------------|---------------------|-----------|
| 1 | 2 | SIZE CODE<br>D IC | NUMBER<br>11/45-0-1 | REV.<br>E |
|---|---|-------------------|---------------------|-----------|

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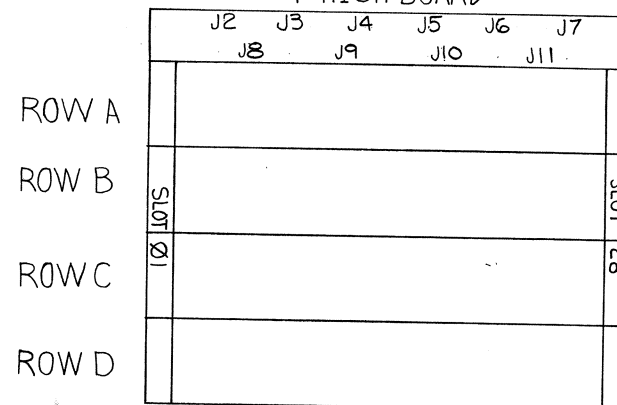
| VOLTAGE | REGULATOR LOCATION | PIN    | ROW   | SLOT        | MATE N LOCK CONNECTION | WIRE WRAP PIN |
|---------|--------------------|--------|-------|-------------|------------------------|---------------|
| +5V     | A                  | A2, VI | A-F   | 2-5         | J2-5,6                 |               |
|         | B                  | A2     |       | 1,6-9       | J2-3,4                 |               |
|         | B                  | VI     |       | 6-9         | J2-3,4                 |               |
|         | C                  | A2, VI |       | 10-15       | J3-5,6                 |               |
|         | J1                 |        |       | 16-18       | J4-6,7                 |               |
|         | H2                 |        |       | 19,20       | J4-1,2, J5-8           |               |
|         | K                  |        |       | 21-23       | J5-1,2,3               |               |
|         | L                  | A2, VI | A-F   | 24,25       | J6-5,6,7               |               |
|         | J                  | A2     | A     | 16          | J5-4,7, J6-8           |               |
|         | D                  |        | A,B   | 26          | J7-8                   |               |
|         | D                  |        | C-F   | 26-28       | J7-8                   |               |
| +5V     | J1                 | A2     | A,B   | 27,28       | J7-5,6                 |               |
| +8V     | TOP H742           | B1     | F     | 1           | J2-8                   | SP-1          |
| LTCL    | TOP H742           | R1     | C     | 1           | J2-7                   |               |
| FV1     | J2                 |        |       |             | J2-1,2                 | SP-2          |
| DCLO1   | TOP H742           | U1     | C     | 12          | J3-8                   |               |
| ACLO1   | TOP H742           | SI     | C     | 12          | J3-7                   |               |
| -15V    | E                  | B2     | E     | 2           | J3-4                   | SP-3          |
| +15V    | TOP H742           | A1     | E     | 15          | J3-2,3                 | SP-4          |
| -15V    | BOT. H742          | B2     | E     | 16          | J3-1                   | SP-5          |
| FV1     | J2                 |        |       |             | J4-8                   | SP-6          |
| FV2     | J2                 |        |       |             | J4-4,5, J6-3           | SP7, SP10     |
| DCLOX   | BOT. H742          | U2     | B     | 16          | J4-3                   |               |
| -15V    | BOT. H742          | B2     | E     | 21          | J5-5,6                 | SP-8          |
| -5V     | HI                 | C1     | F     | 17-20,22-25 | J6-4                   | SP-9          |
| +23V    | HI                 | V2     | A,C,E | 17-20,22-25 | J6-2                   |               |
| +19V    | HI                 | U2     | A,C,E | 17-20,22-25 | J6-1                   |               |
| ACLO2   | BOT. H742          | F1     | B     | 28          | J7-7                   |               |
| DCLO2   | BOT. H742          | F2     | B     | 28          | J7-4                   |               |



REGULATOR LOCATIONS

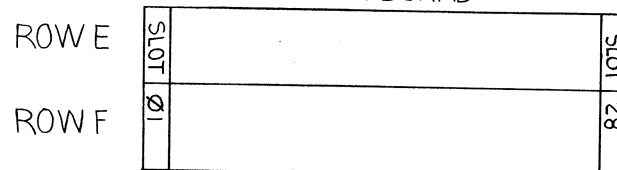
|        | PIN            | ROW | SLOT    | MATE N LOCK CONNECTION |
|--------|----------------|-----|---------|------------------------|
| GROUND | C2, N2, T1     | A-F | 2-25    | J8-1,8                 |
|        | C2, T1         | A-F | 1,26-28 | J9-1,8                 |
|        | B2, V2         | A,B |         | J10-1,8                |
|        | N1, P1, R1, S1 | A   |         | J11-1,8                |
|        | D1, E1         | B   | 1,26-28 |                        |

4 HIGH BOARD

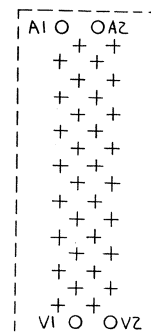


5409910  
(POWER PLANE)

2 HIGH BOARD

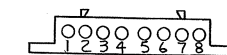
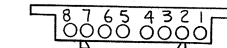


5409912  
(POWER PLANE)



PIN CONFIGURATION  
(ONE ROW-ONE SLOT SECTION)

MATE N LOCK CONNECTORS J2-J6



MATE N LOCK CONNECTORS J7-J11

NOTES:

- THIS LISTING IS FURNISHED TO SHOW COMBINATIONS OF MATE N LOCK CONNECTORS (J#) AND WIREWRAP PINS THAT ARE TO BE ETCHED TOGETHER. VOLTAGES WILL BE WIREWRAPPED BETWEEN 5409910 AND 5409912
- ALL MATE N LOCK CONNECTORS AND PINS LISTED ARE CONNECTED TOGETHER BY THE GROUND PLANE (5409910-4 HIGH BOARD). WIREWRAP CONNECTIONS WILL BE MADE BETWEEN DXX1 (5409910) AND EXXC2 (5409912)-XX= SLOT NUMBERS 01-28

|                                                                 |                   |                 |                                                         |          |
|-----------------------------------------------------------------|-------------------|-----------------|---------------------------------------------------------|----------|
| FIRST USED ON OPTION/MODEL<br>PDP11/45                          | QTY.              | DESCRIPTION     | PART NO.                                                | ITEM NO. |
| PARTS LIST                                                      |                   |                 |                                                         |          |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSION IN INCHES<br>TOLERANCES | DRN<br>3/26/72    | DATE<br>4/26/72 | digital EQUIPMENT CORPORATION<br>MAYNARD, MASSACHUSETTS |          |
| DECIMALS .XXX = .005<br>.XX = .02<br>.X = .1                    | CHK'D<br>3/26/72  | DATE<br>4/26/72 | TITLE<br>11/45 BACK PANEL<br>PC BOARD                   |          |
| ANGLES ±0° 30'                                                  | ENG.<br>3/26/72   | DATE<br>4/26/72 | REV.                                                    |          |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY            | PROD.<br>3/26/72  | DATE<br>5-1-72  | SIZE CODE<br>D1C                                        |          |
| MATERIAL<br>--                                                  | NEXT HIGHER ASSY. | SCALE<br>--     | NUMBER<br>11/45-0-2                                     | REV.     |
| FINISH<br>--                                                    | SHEET 1 OF 1      | DIST.           |                                                         |          |

| REVISIONS         |             |      |
|-------------------|-------------|------|
| CHK               | CHANGE NO.  | REV. |
| 28                | 11/45-00057 | A    |
| Q. Vavala 3-21-74 |             |      |
| V. BOAEN          |             |      |
| Vavala            |             |      |

|                            |             |          |
|----------------------------|-------------|----------|
| FIRST USED ON OPTION MODEL |             | 11/45    |
| QTY.                       | DESCRIPTION | PART NO. |

|            |  |          |
|------------|--|----------|
| PARTS LIST |  | ITEM NO. |
|------------|--|----------|

|                      |        |         |
|----------------------|--------|---------|
| DRN.                 | DATE   | 10-5-73 |
| CHK'D.               | DATE   | 11/5/73 |
| ENG.                 | DATE   | 11/5/73 |
| PROJ. ENG.           | DATE   | 11/5/73 |
| PROD.                | DATE   | 11-5-73 |
| NEXT HIGHER ASSEMBLY |        |         |
| J-1A-7009540-0-0     |        |         |
| SCALE                | 1 OF 1 |         |
| SHEET                | 1      |         |

|                                                         |      |             |      |
|---------------------------------------------------------|------|-------------|------|
| SIZE                                                    | CODE | NUMBER      | REV. |
| K                                                       | WL   | 7009540-0-2 | A    |
| TITLE                                                   |      |             |      |
| WIRE LIST                                               |      |             |      |
| DIGITAL EQUIPMENT CORPORATION<br>MAYNARD, MASSACHUSETTS |      |             |      |
| DIST.                                                   |      |             |      |

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|      |             |      |      |
|------|-------------|------|------|
| REV. | NUMBER      | CODE | SIZE |
| A    | 7009540-0-2 | WL   | K    |

WRL18D.SAV(18) A/P PIN LOCATION BAY Q DRAW RV RG Y X Z LEVEL

SEE NOTE:  
SEE NOTE:

ALL WIRES #14 AWG  
UNLESS OTHERWISE NOTED

| NEW RUN INDICATOR | RUN NUM | REMARKS | NEW RUN INDICATOR | RUN NUM |
|-------------------|---------|---------|-------------------|---------|
| X                 | 1       |         | X                 | 1       |
|                   | 1       |         |                   | 1       |
| X                 | 2       |         | X                 | 2       |
|                   | 2       |         |                   | 2       |
| X                 | 3       |         | X                 | 3       |
|                   | 3       |         |                   | 3       |
| X                 | 4       |         | X                 | 4       |
|                   | 4       |         |                   | 4       |
| X                 | 5       |         | X                 | 5       |
|                   | 5       |         |                   | 5       |
| X                 | 6       |         | X                 | 6       |
|                   | 6       |         |                   | 6       |
| X                 | 7       |         | X                 | 7       |
|                   | 7       |         |                   | 7       |
| X                 | 8       |         | X                 | 8       |
|                   | 8       |         |                   | 8       |
| X                 | 9       |         | X                 | 9       |
|                   | 9       |         |                   | 9       |
| X                 | 10      |         | X                 | 10      |
|                   | 10      |         |                   | 10      |
| X                 | 11      |         | X                 | 11      |
|                   | 11      |         |                   | 11      |
| X                 | 12      |         | X                 | 12      |
|                   | 12      |         |                   | 12      |
| X                 | 13      |         | X                 | 13      |
|                   | 13      |         |                   | 13      |
| X                 | 14      |         | X                 | 14      |
|                   | 14      |         |                   | 14      |
| X                 | 15      |         | X                 | 15      |
|                   | 15      |         |                   | 15      |
| X                 | 16      |         | X                 | 16      |
|                   | 16      |         |                   | 16      |
| X                 | 17      |         | X                 | 17      |
|                   | 17      |         |                   | 17      |
| X                 | 18      |         | X                 | 18      |
|                   | 18      |         |                   | 18      |

URN=BLK TWP(GND E2)

WRL18D.SAV(18) A/P PIN LOCATION BAY Q DRAW RV RG Y X Z LEVEL

| NEW RUN INDICATOR | RUN NUM | REMARKS | NEW RUN INDICATOR | RUN NUM |
|-------------------|---------|---------|-------------------|---------|
| X                 | 19      |         | X                 | 19      |
|                   | 19      |         |                   | 19      |
| X                 | 20      |         | X                 | 20      |
|                   | 20      |         |                   | 20      |
| X                 | 21      |         | X                 | 21      |
|                   | 21      |         |                   | 21      |
| X                 | 22      |         | X                 | 22      |
|                   | 22      |         |                   | 22      |
| X                 | 23      |         | X                 | 23      |
|                   | 23      |         |                   | 23      |
| X                 | 24      |         | X                 | 24      |
|                   | 24      |         |                   | 24      |
| X                 | 25      |         | X                 | 25      |
|                   | 25      |         |                   | 25      |
| X                 | 26      |         | X                 | 26      |
|                   | 26      |         |                   | 26      |
| X                 | 27      |         | X                 | 27      |
|                   | 27      |         |                   | 27      |
| X                 | 28      |         | X                 | 28      |
|                   | 28      |         |                   | 28      |
| X                 | 29      |         | X                 | 29      |
|                   | 29      |         |                   | 29      |
| X                 | 30      |         | X                 | 30      |
|                   | 30      |         |                   | 30      |
| X                 | 31      |         | X                 | 31      |
|                   | 31      |         |                   | 31      |
| X                 | 32      |         | X                 | 32      |
|                   | 32      |         |                   | 32      |
| X                 | 33      |         | X                 | 33      |
|                   | 33      |         |                   | 33      |
| X                 | 34      |         | X                 | 34      |
|                   | 34      |         |                   | 34      |
| X                 | 35      |         | X                 | 35      |
|                   | 35      |         |                   | 35      |
| X                 | 36      |         | X                 | 36      |
|                   | 36      |         |                   | 36      |

#18AWG  
#18AWG

[illegible]





| RUN NAME      |  | A/P      | PIN    | RAY   | Q | DRAW    | RV | RG                  | Y | X     | Z | REMARKS | NEW RUN   | RUN |
|---------------|--|----------|--------|-------|---|---------|----|---------------------|---|-------|---|---------|-----------|-----|
| LINE CLOCK'   |  | LOCATION |        | ORDER |   |         |    |                     |   | LEVEL |   |         | INDICATOR | NUM |
| LINE CLOCK'   |  | P2-7     | 33"    |       |   | BRN     |    | #18AWG              |   |       |   | X       | 109       | 109 |
| LO GND 01     |  | P10-1    | 66"    |       |   | BLK     |    | #18AWG              |   |       |   | X       | 110       | 110 |
| LO GND 02     |  | P10-2    | 78"    |       |   | BLK     |    | #18AWG              |   |       |   | X       | 111       | 111 |
| LO GND 03     |  | P37-1    | 30.5"  |       |   | BLK     |    | #18AWG              |   |       |   | X       | 112       | 112 |
| PWR CONT COM1 |  | P1-3     | 98.25" |       |   | BLK=WHT |    | TWP(P.C SW1)#18AWG  |   |       |   | X       | 113       | 113 |
| PWR CONT SW1  |  | P1-4     | 98.25" |       |   | WHT=BLK |    | TWP(P.C COM1)#18AWG |   |       |   | X       | 114       | 114 |
| SHIELD        |  | P23-4    |        |       |   |         |    | CABLE 9107761       |   |       |   | X       | 115       | 115 |
| THERM 1       |  | P13-6    | 77.75" |       |   | BLK     |    | #18AWG              |   |       |   | X       | 116       | 116 |
| THERM 2       |  | P13-5    | 77.75" |       |   | RED     |    | #18AWG              |   |       |   | X       | 117       | 117 |