| LTR | ZONE | REVISION | DATE | DRAFT TYPE | APPROVAL |
|---|---|---|---|---|---|

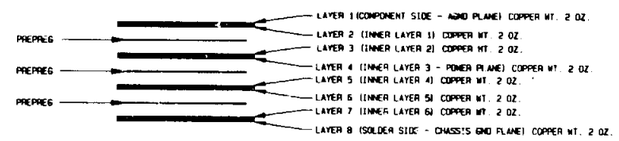
17. ALL MILITARY SPECIFICATIONS USED ON THIS DRAWING WILL BE INTERPRETED PER THE LATEST REVISION LETTER.
16. LAYER TO LAYER MISREGISTRATION NOT TO EXCEED .005.
15. MIL-P-55110 QUALITY ASSURANCE PROVISIONS APPLY.
14. UNDIMENSIONED HOLES ARE LOCATED ON A .005 GRID.
13. UNLESS OTHERWISE SPECIFIED IN THE HOLE LEGEND, ALL HOLES ARE PLATED THRU AND SHALL BE THE SPECIFIED DIAMETER AFTER PLATING.
12. THIS DRAWING USED IN CONJUNCTION WITH SCHEMATIC SIG46113586.
11. VENDOR SHALL PROVIDE PRINTED WIRING BOARD COUPONS AS INDICATED.
10. ARTWORK DEPICTED ON THIS DRAWING ARE FOR DOCUMENTATION ONLY.
9. ARTWORK DEPICTED ON THIS DRAWING ARE PHOTO POSITIVES UNLESS OTHERWISE SPECIFIED, AND ARE VIEWED FROM COMPONENT SIDE.
8. SOLDER MASK (GREEN) BOTH SIDES.
7. SILKSCREEN WITH WHITE EPOXY INK PER MIL-I-43553, TYPE II. (NON CONDUCTIVE).
6. TIN/LEAD PLATE EXTERNAL CONDUCTIVE PATTERNS PER MIL-P-81728.
5. BOARD MATERIAL TO BE EPOXY FIBERGLASS PER MIL-P-13949/41TYPE GF, WITH EPOXY PREPREG PER MIL-P-13949/12, TYPE GF. COPPER WEIGHT SHALL BE 2 OZ. FOR ALL LAYERS. FINISHED LAMINATE MATERIAL THICKNESS SHALL BE .062 +_.008 THICK.
4. FABRICATE PRINTED WIRING BOARD PER MIL-P-55110 WITH ETCHBACK.
3. THIS ITEM CONTAINS NO FRACTURE CRITICAL ELEMENTS.
2. ALL DIMENSIONS ARE IN INCHES.
1. INTERPRET PER JSCM 8500.

NOTES: UNLESS OTHERWISE SPECIFIED

7 -001, -002, AND -003, ARE PROTOTYPE PRINTED WIRING BOARDS ONLY, AND WILL NOT BE RELEASED.

6 MARK PWB WITH THE DATE CODE, TRACEABILITY CODE AND MANUFACTURER'S CODE (FEDERAL SUPPLY CODE FOR MANUFACTURERS) WITH PERMANENT INK (NON CONDUCTIVE) OR IN COPPER ETCH.

NOTES:




LAYER STACKING
SCALE = NONE

| -004 | -003 | -002 | -001 | PART NUMBER | DESCRIPTION | REFERENCE DESIGNATOR | SPECIFICATION | ITEM |
|---|---|---|---|---|---|---|---|---|
| 1 | - | - | - | SDG46113587-004 | PWB, POWER SUPPLY | | | - |
| - | 1 | - | - | SDG46113587-003 | PWB, POWER SUPPLY | 7 | | - |
| - | - | 1 | - | SDG46113587-002 | PWB, POWER SUPPLY | 7 | | - |
| - | - | - | 1 | SDG46113587-001 | PWB, POWER SUPPLY | 7 | | - |

DIMENSIONAL TOLERANCE UNLESS NOTED OTHERWISE
0 ± 1 .000 ± .000
00 ± .03 ANGULAR ±

SIZE SDG46113587

CALC BY:
MAX FILE: VPCADVRELEASE\PCB
DRW FILE: 3587401.HP

BOARD TYPE
FLY HOOK
SPRING CONTACTS
APPLICABLE ONLY

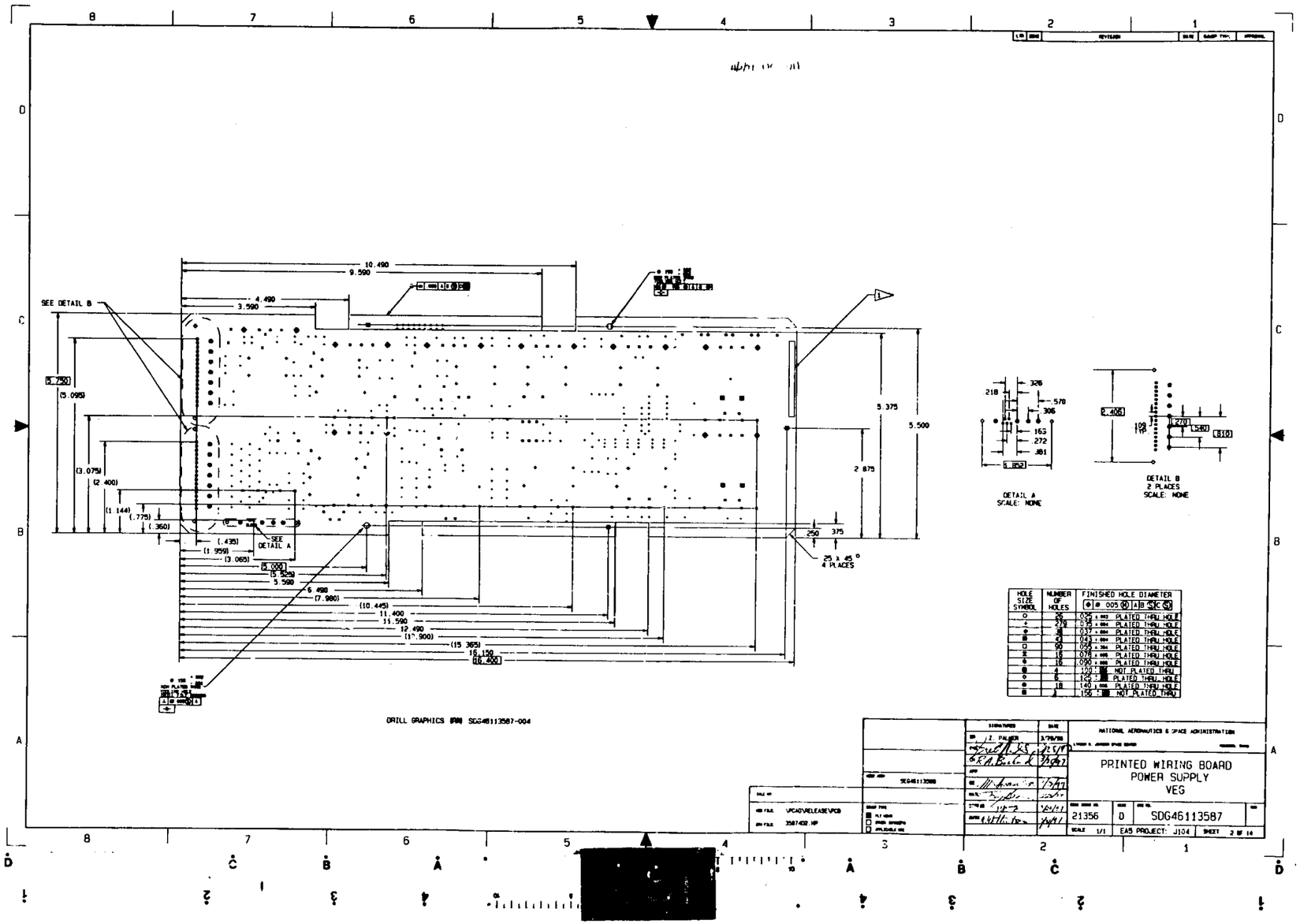
| SIGNATURES | | DATE |
|---|---|---|
| DR | J. PALMER | 3/21/88 |
| ENGR | | |
| | | 3/1/87 |
| QRP | | |
| QE | | 3/21/88 |
| PROJ | | 10-4-87 |
| STRESS | | 10/6/87 |
| DARN | | 3/4/87 |

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

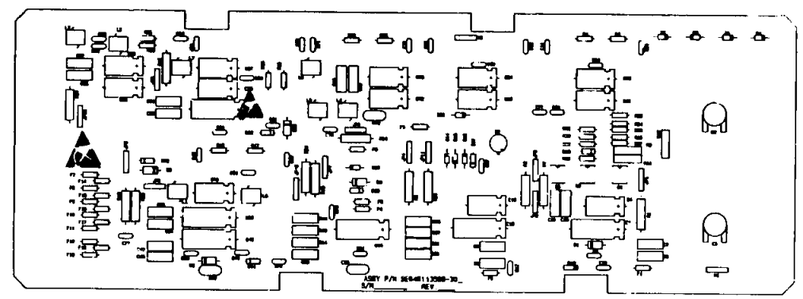
PRINTED WIRING BOARD
POWER SUPPLY
VEG

| SIZE | CODE IDENT NO. | SIZE | DWG NO. | REV |
|---|---|---|---|---|
| | 21356 | D | SDG46113587 | |

SCALE 1/1 | EAS PROJECT: J904 | SHEET 1 OF 14


SEE DETAIL B
SEE DETAIL A
DETAIL A
SCALE: NONE
DETAIL B
2 PLACES
SCALE: NONE
25 x 45°
4 PLACES
DRILL GRAPHICS (RN) SDG46113587-004
HOLE SIZE SYMBOL
NUMBER OF HOLES
FINISHED HOLE DIAMETER
PLATED THRU HOLE
NOT PLATED THRU
NATIONAL AERONAUTICS & SPACE ADMINISTRATION
PRINTED WIRING BOARD
POWER SUPPLY
VEG
21356
D
SDG46113587
EAS PROJECT: J104
SHEET 2 OF 14

[redacted]



SILKSCREEN (COMPONENT SIDE) FOR SDG46113587-004

| | | |
|---|---|---|
| SIGNATURES | DATE | NATIONAL AERONAUTICS & SPACE ADMINISTRATION |
| DR Z PALMER | 3/29/88 | PRINTED WIRING BOARD POWER SUPPLY VEG |
| CHK | 3/29/88 | |
| APP | 3/29/88 | |
| DR | 3/29/88 | |
| MAT | 3/29/88 | |
| STRESS | 3/29/88 | |
| APPR | 3/29/88 | |
| SCALE 1/1 | EAS PROJECT: J104 | SHEET 3 OF 14 |

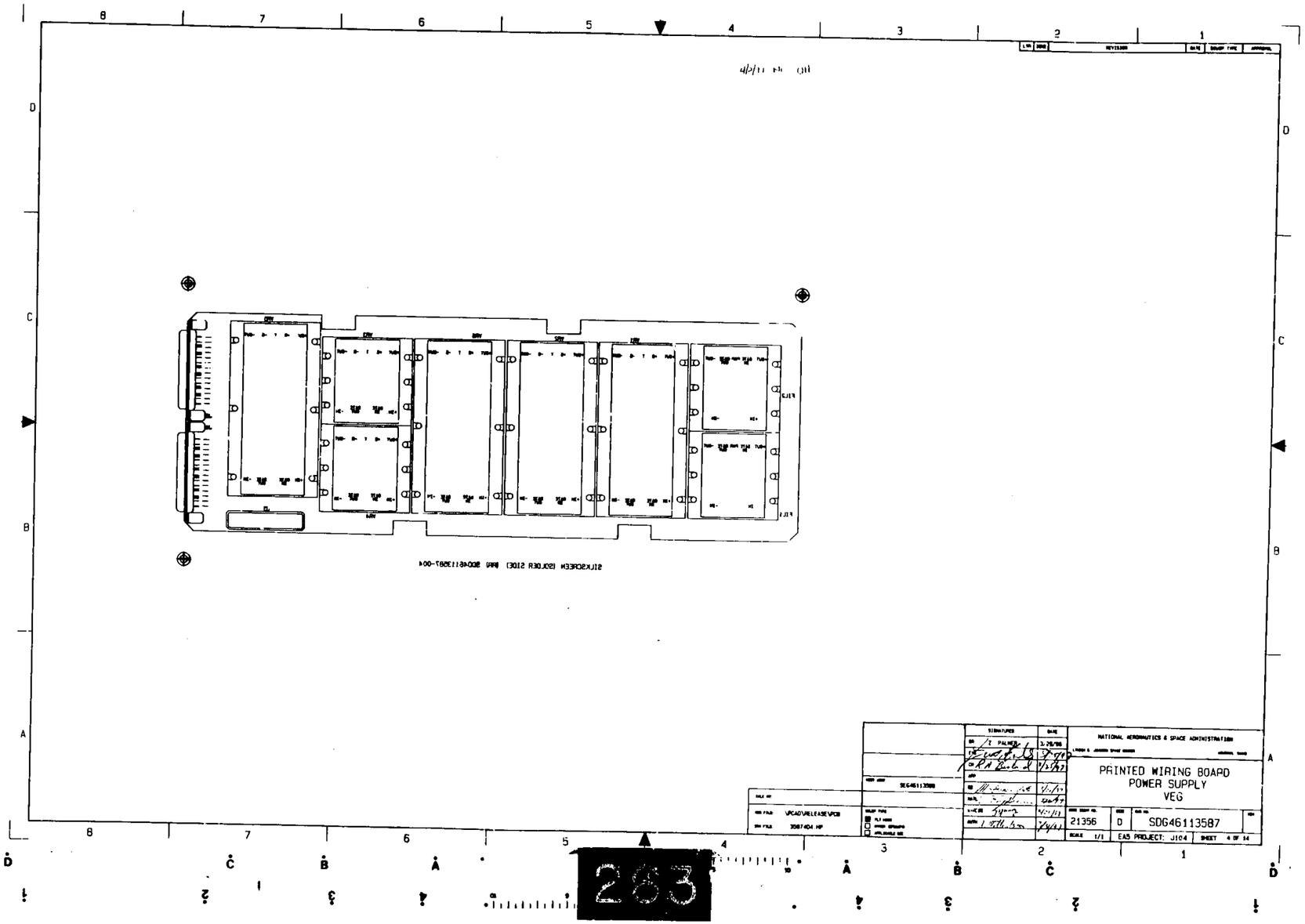
21356 | D | SDG46113587

SCALE 1/1 | EAS PROJECT: J104 | SHEET 3 OF 14

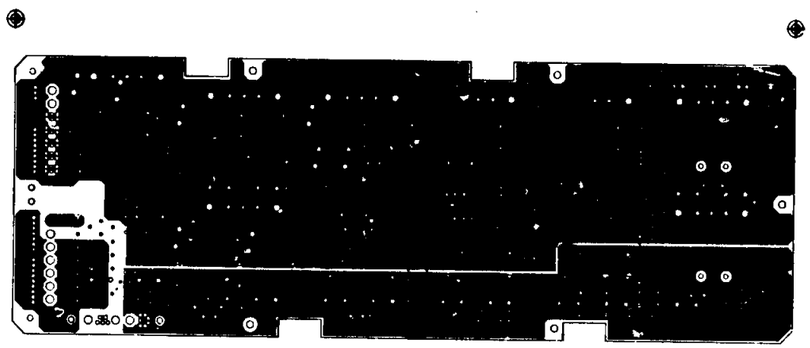
VPCAD\RELEASE\PCB

3587403.HP

252



NATIONAL AERONAUTICS & SPACE ADMINISTRATION
PRINTED WIRING BOARD
POWER SUPPLY
VEG
21356
D
SDG46113587
SCALE 1/1
EA5 PROJECT: J104
SHEET 4 OF 14



LAYER 1 (COMPONENT SIDE - AGND PLANE) (RR) SDG46113587-004

| | | |
|---|---|---|
| SIGNATURES | | DATE |
| DR | J. PALMER | 3/29/96 |
| CHK | [illegible] | 3/27/97 |
| | [illegible] | 3/27/97 |
| APP | | |
| DR | [illegible] | [illegible] |
| DR | [illegible] | [illegible] |
| STRESS | [illegible] | [illegible] |
| AUTH | [illegible] | [illegible] |

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

LYNDON B. JOHNSON SPACE CENTER — HOUSTON, TEXAS

PRINTED WIRING BOARD
POWER SUPPLY
VEG

| SIZE | SIZE | DWG NO. | REV |
|---|---|---|---|
| 21356 | D | SDG46113587 | |

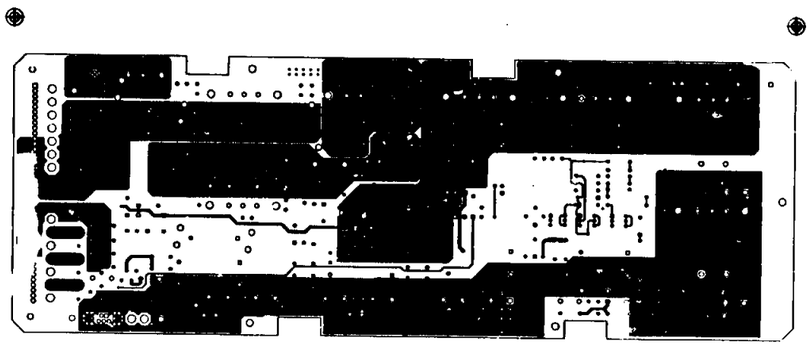
SCALE 1/1 | EAS PROJECT: J104 | SHEET 5 OF 54

SDG46113588

VPCAD\RELCASE\PCB

3587405 HP

234



LAYER 2 (INNER LAYER 1) SDG46113587-004

| | | |
|---|---|---|
| SIGNATURES | | DATE |
| DR | T. PALMER | 3/26/86 |
| CHK | [illegible] | 3/26/87 |
| APP | [illegible] | 3/26/87 |
| MFG | [illegible] | 3/26/87 |
| MATL | [illegible] | 3/26/87 |
| STRESS | [illegible] | 3/26/87 |
| SURV | [illegible] | 3/26/87 |

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

LYNDON B. JOHNSON SPACE CENTER — HOUSTON, TEXAS

PRINTED WIRING BOARD
POWER SUPPLY
VEG

| | | |
|---|---|---|
| 21356 | D | SDG46113587 |
| SCALE 1/1 | EAS PROJECT: J104 | SHEET 6 OF 14 |

SEG46113588

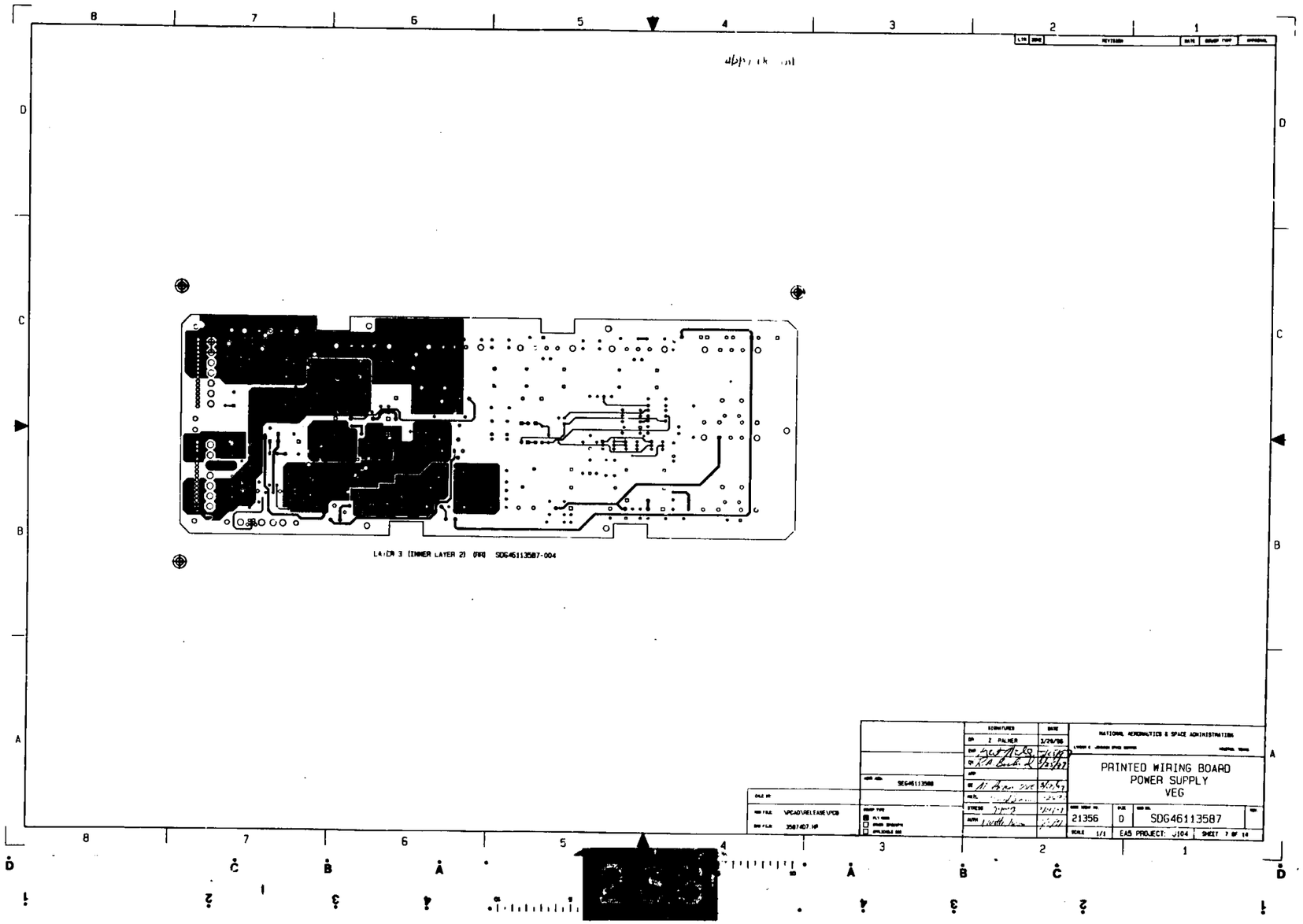
CALC NO:

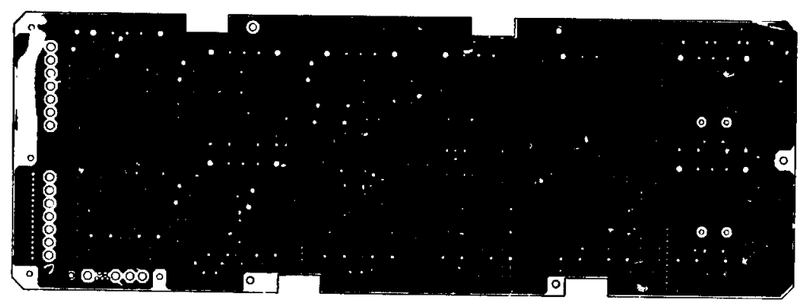
PROJ FILE: VPCAD\RELEASE\VCB

DRW FILE: 3587406.HP

DRAWING TYPE: ☒ PLY ORDER ☐ PRINTED SCHEMATIC ☐ APPLICABLE USE

2-56


LAYER 3 (INNER LAYER 2) (NN) SDG46113587-004
SIGNATURES
DATE
Z PALMER
3/29/96
NATIONAL AERONAUTICS & SPACE ADMINISTRATION
PRINTED WIRING BOARD
POWER SUPPLY
VEG
21356
D
SDG46113587
SCALE 1/1
EAS PROJECT: J104
SHEET 7 OF 14
SEG46113588
\PCAD\RELEASE\PCB
3587407.HP



LAYER 4 (INNER LAYER 3 - POWER PLANE) GRR SDG46113587-004

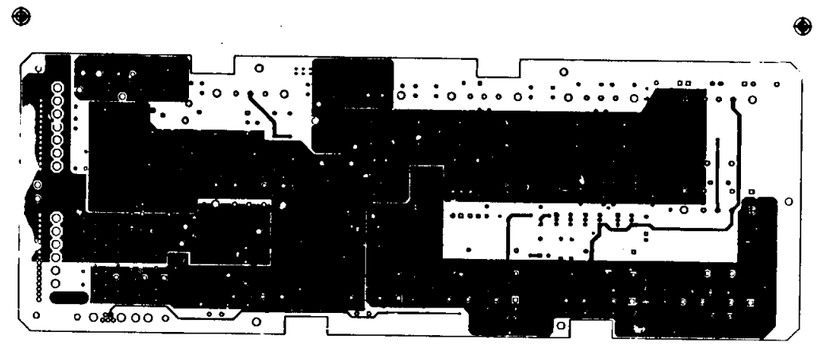
NATIONAL AERONAUTICS & SPACE ADMINISTRATION

PRINTED WIRING BOARD
POWER SUPPLY
VEG

21356 | D | SDG46113587

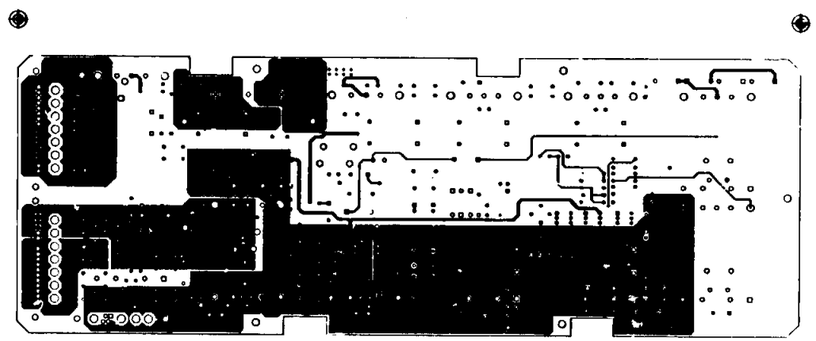
SCALE 1/1 | EAS PROJECT: J104 | SHEET 8 OF 14

[redacted]



LAYER 5 (INNER LAYER 4) (RR) SDG46113587-004

| | | |
|---|---|---|
| SIGNATURES | DATE | NATIONAL AERONAUTICS & SPACE ADMINISTRATION |
| DR Z. PALMER | 3/28/95 | PRINTED WIRING BOARD<br>POWER SUPPLY<br>VEG |
| SEG46113588 | | |
| VRCAD\RELEASE\VCB | | 21356 D SDG46113587 |
| 3587408.HP | | SCALE 1/1 EAS PROJECT: J104 SHEET 9 OF 14 |

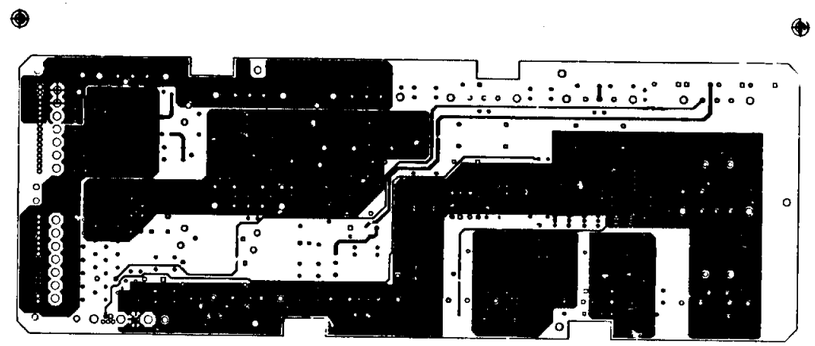


LAYER 6 (INNER LAYER 5) (PRI) SDG46113587-004

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

PRINTED WIRING BOARD
POWER SUPPLY
VEG

| | | |
|---|---|---|
| 21356 | D | SDG46113587 |
| SCALE 1/1 | EAS PROJECT: J124 | SHEET 10 OF 14 |



LAYER 7 (INNER LAYER 8) SDG46113587-004

| | | | |
|---|---|---|---|
| SIGNATURES | | DATE | NATIONAL AERONAUTICS & SPACE ADMINISTRATION |
| DR | Z. BALMER | 3/29/88 | PRINTED WIRING BOARD<br>POWER SUPPLY<br>VEG |
| CHK | | 7/25/88 | |
| DR | | 7/25/88 | |
| APP | | | |
| DR | | | |
| MATL | | | |
| STRESS | | | 21356 D SDG46113587 |
| MFG | | | SCALE 1/1 EA5 PROJECT: J104 SHEET 11 OF 14 |

SDG46113588

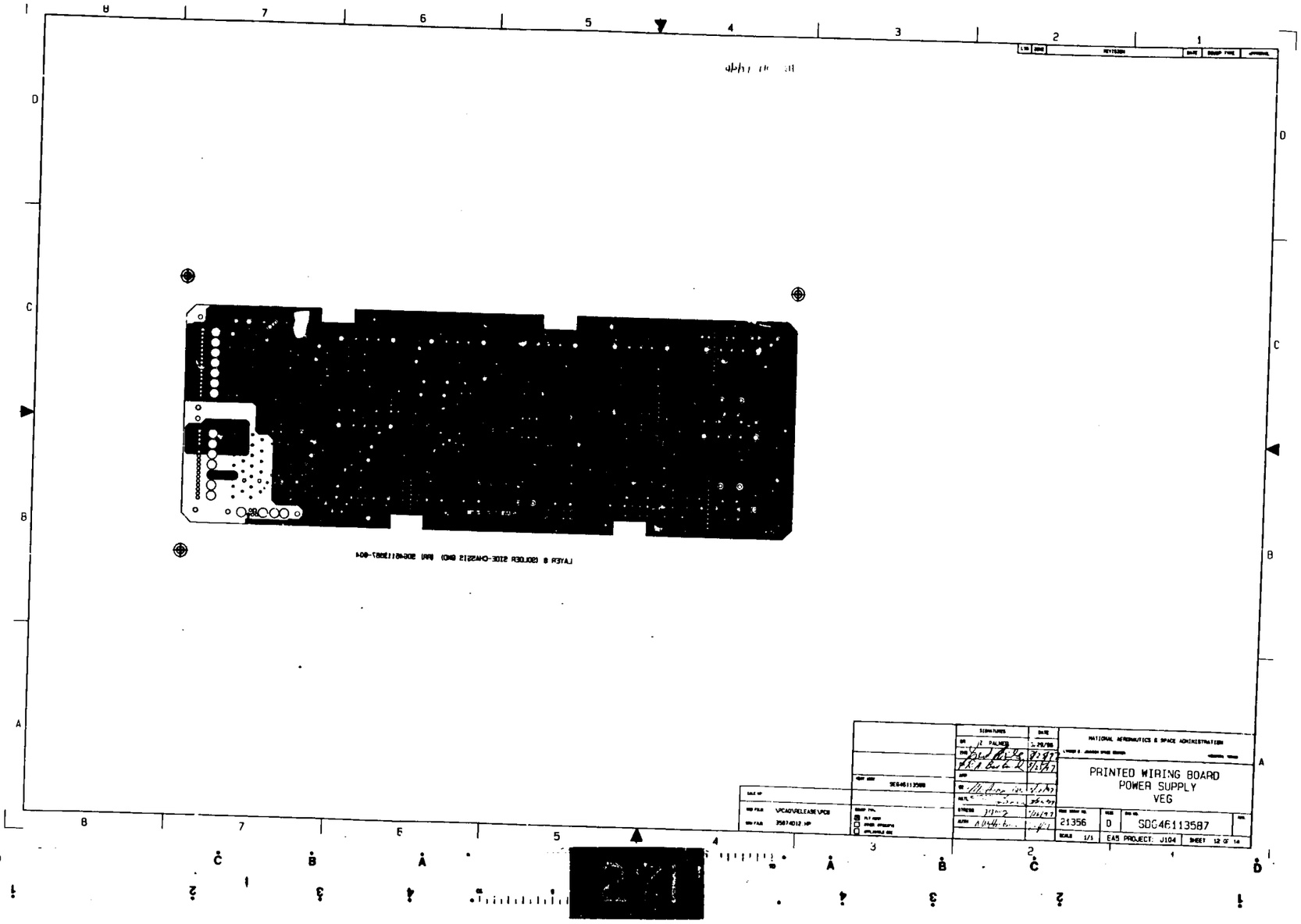
CALC NO.

NEW FILE: \PCAD\RELEASE\PCB

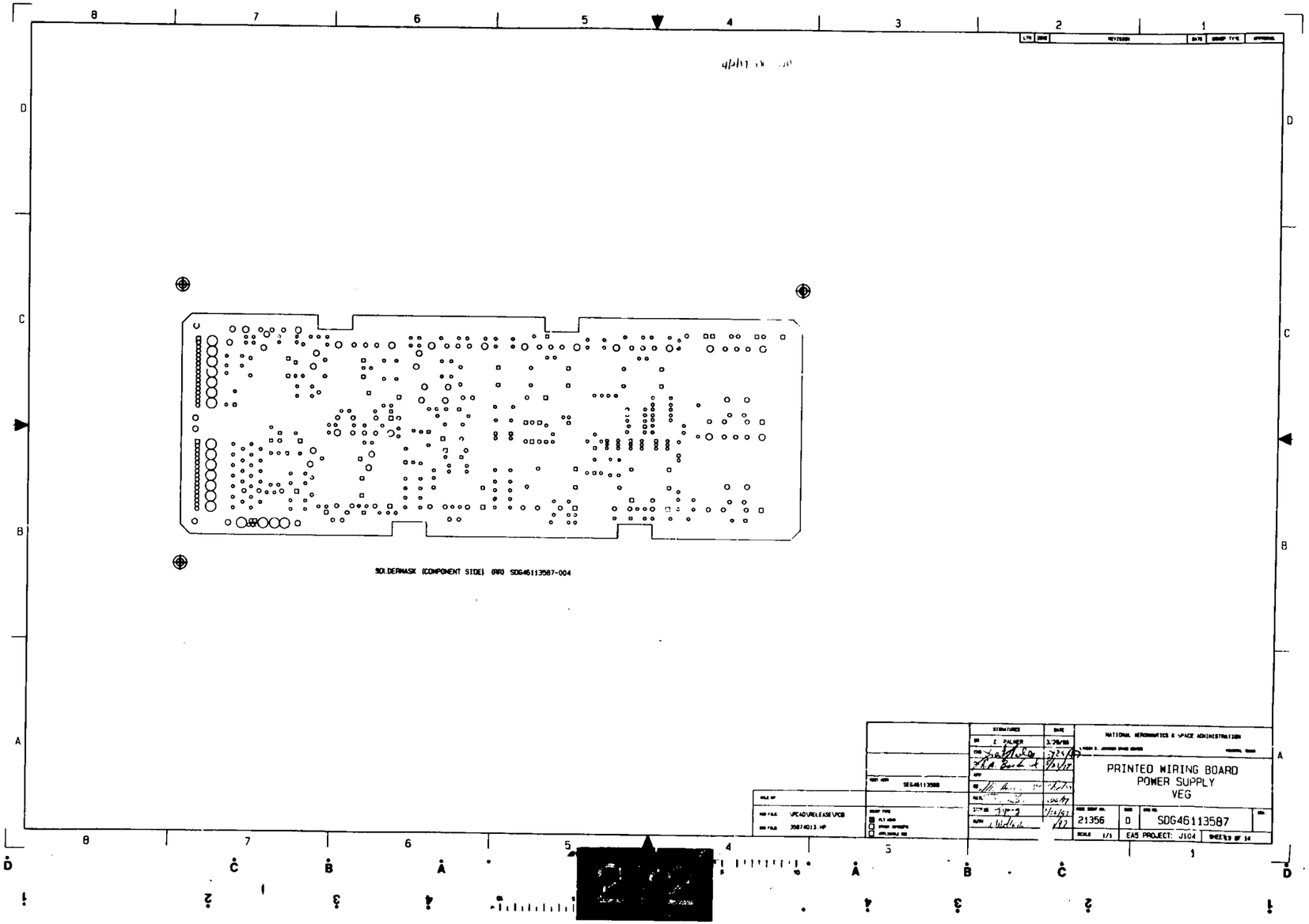
DRW FILE: 35874011.HP

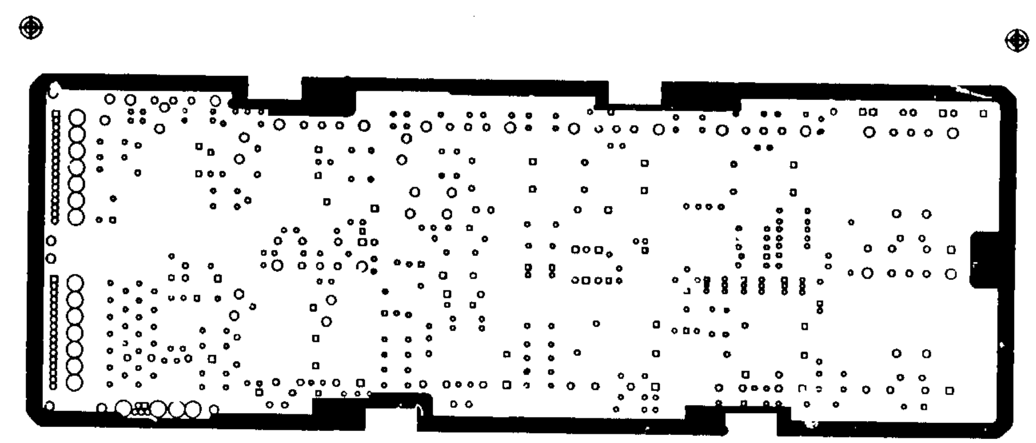
DRAWING TYPE: ☒ PLT NEW ☐ DRAWN OPTIONS ☐ APPLICABLE SIZE

210



NATIONAL AERONAUTICS & SPACE ADMINISTRATION
PRINTED WIRING BOARD
POWER SUPPLY
VEG
21356
D
SDG46113587
SCALE 1/1
EA5 PROJECT: J104
SHEET 12 OF 14


SOLDERMASK (COMPONENT SIDE) (RR) SDG46113587-004
NATIONAL AERONAUTICS & SPACE ADMINISTRATION
PRINTED WIRING BOARD
POWER SUPPLY
VEG
21356
D
SDG46113587
1/1
EA5 PROJECT: J104
SHEET 13 OF 14
SEG46113588
VPCAD\RELEASE\PCB
35874013.HP
Z. PALMER
3/28/88



SOLDERMASK (SOLDER SIDE) (RR) SDG46113587-004

| | |
|---|---|
| NEXT ASSY | SE46113588 |
| DR | Z. PALMER |
| DWG FILE | \PCAD\RELEASE\PCB |
| DWG FILE | 35874D14.HP |

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

PRINTED WIRING BOARD
POWER SUPPLY
VEG

| CODE IDENT NO. | SIZE | DWG NO. |
|---|---|---|
| 21356 | D | SDG46113587 |

SCALE 1/1 | EA5 PROJECT: J104 | SHEET 14 OF 14