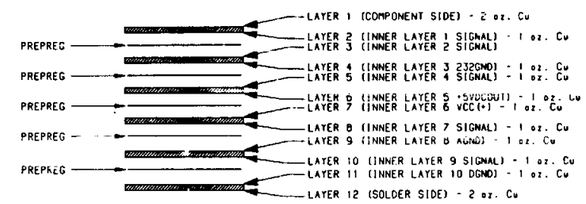
3-9-98 A

LTR	ZONE	REVISION	DATE	EQUIP TYPE	APPROVED
A		UPDATE FABRICATION NOTES SHEET 1	03/98		
	B-5	CORRECTED TEXT SHEET 3 AND 15			
		REROUGHT TRACES ON U13,U15,U20			
		U20, AND U25 SHEETS 4 THRU 15			
	C-5	CORRECTED SILKSCREEN ON U54			



LAYER STACKING
SCALE = NONE

1. MARK AREA INDICATED WITH THE DATE CODE, TRACEBILITY CODE AND MANUFACTURERS CODE (FEDERAL SUPPLY CODE FOR MANUFACTURERS) WITH PERMANENT INK (NON CONDUCTIVE) OR IN COPPER ETCH.

FLAG NOTES:

18. SOLDER PLUG ALL .018 HOLES.
17. ALL REFERENCED SPECIFICATIONS AND STANDARDS SHALL BE OF THE LATEST REVISION LEVEL OR AS SPECIFIED IN THE PROCURMENT DOCUMENT. IN THE CASE OF CONFLICT, THE PROCUREMENT DOCUMENT SHALL TAKE PRECEDENCE
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 HOLE LEGEND, ALL HOLES ARE PLATED THRU AND SHALL BE THE SPECIFIED DIAMETER AFTER PLATING.
12. THIS DRAWING USED IN CONJUNCTION WITH SCHEMATIC SIG46114185.
11. VENDOR SHALL PROVIDE PRINTED WIRING BOARD COUPONS AS INDICATED.
10. ARTWORK DEPICTED ON THIS DRAWING IS FOR DOCUMENTATION ONLY.
9. ARTWORKS DEPICTED ON THIS DRAWING ARE PHOTO POSITIVES UNLESS OTHERWISE SPECIFIED AND 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-13949/4 TYPE GF, WITH EPOXY PREPREG PER MIL-P-13949/12, TYPE GF. COPPER WEIGHT SHALL BE 2 OZ. EXTERNAL LAYERS, AND 1 OZ. INTERNAL LAYERS. FINISHED BOARD SHALL BE .093 ±.008 THICK.
4. FABRICATE PRINTED WIRING BOARD PER MIL-P-55110 WITH ETCHBACK.
3. THIS ITEM DOES NOT CONTAIN FRACTURE CRITICAL PARTS.
2. ALL DIMENSIONS ARE IN INCHES.
1. INTERPRET PER JPG 8500.4.

NOTES: UNLESS OTHERWISE SPECIFIED

QTY	PART NUMBER	DESCRIPTION	MTRL/REF DES	SPECIFICATION	ITEM
-	SDG46114186-002	PWB, DIGITAL			-

DIMENSIONAL TOLERANCE UNLESS NOTED OTHERWISE
.0 ±.1 .000 ±.010
.00 ±.05 ANGULAR ±.5 DEG.

SEC461:3976

CALC WT:
DWG DIR: \PCAD\RELEASE\PCB
DWG FILE: 41862D1.HP

COMP TYPE
☒ PLT BRD
☐ SPARE SPECIFIC
☐ APPL SCHEM ONLY

SIGNATURES		DATE
DR	R NORMAN	03/03/98
ENG		3/3/98
CH		3/3/98
APP		3/4/98
PE		3/4/98
MATL		3/6/98
STRESS		3/3/98
AUTH		

NATIONAL AERONAUTICS & SPACE ADMINISTRATION
LYNDON B. JOHNSON SPACE CENTER HOUSTON, TEXAS

PRINTED WIRING BOARD
DIGITAL
HRF WORKSTATION

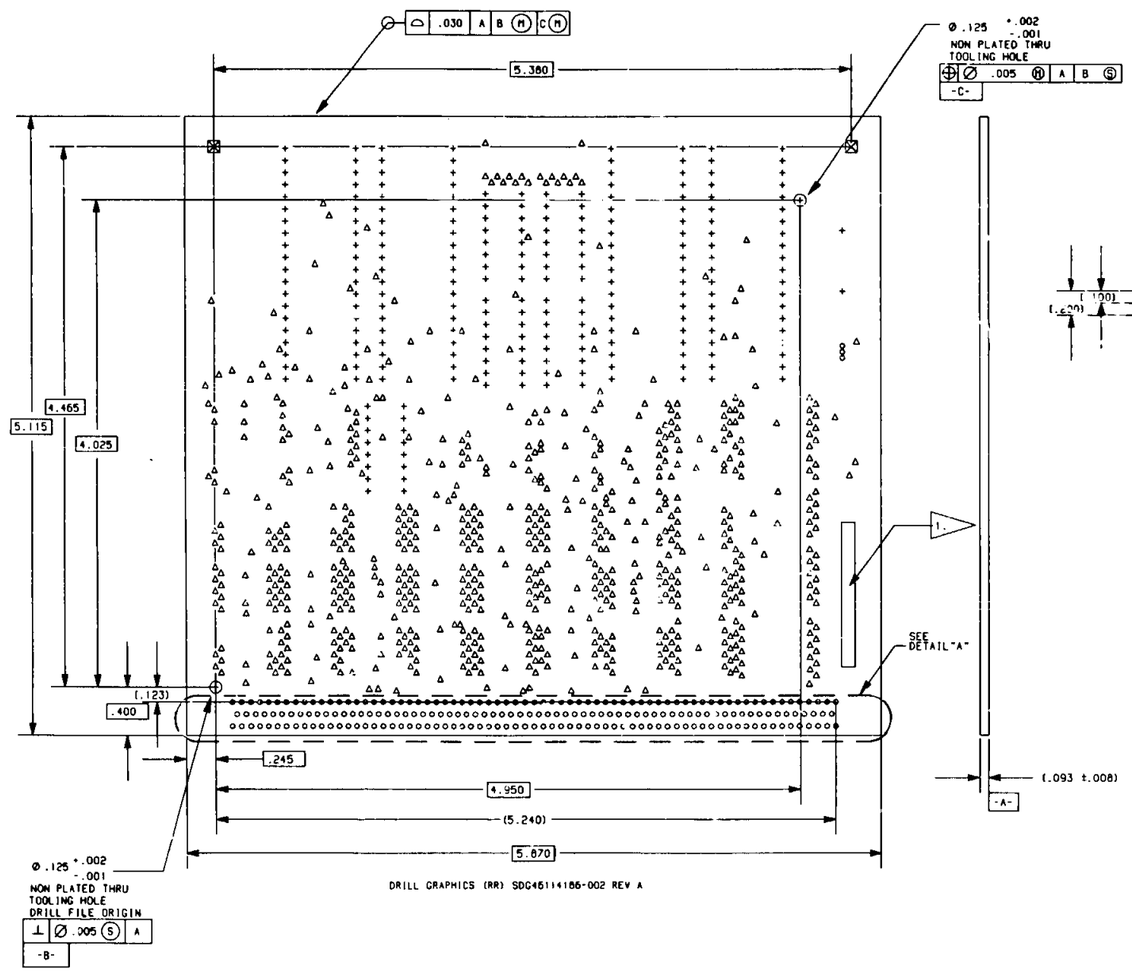
CODE IDENT NO.	SIZE	DWG NO.	REV.
21356	D	SDG46114186	A

SCALE 2:1 | EAS PROJECT :J104 | SHEET 1 OF 18

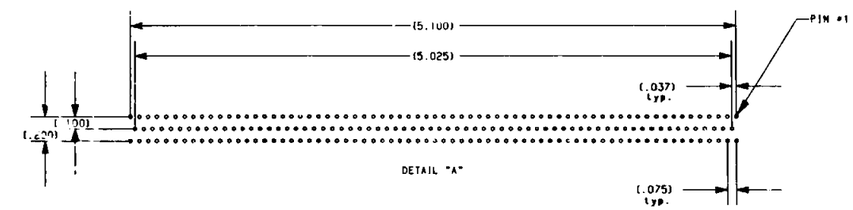
275

LTR	ZONE	REVISION	DATE	EWO/F TYPE	APPROVAL
		SEE SHEET ONE			

3-9-98 A. fm



DRILL GRAPHICS (RR) SDG46114186-002 REV A



HOLE SIZE SYMBOL	NUMBER OF HOLES	FINISHED_HOLE_DIAMETER Ø .005 M A B S C S	
○	209	.028 ±.003	PLATED_THRU_HOLE
+	242	.035 ±.004	PLATED_THRU_HOLE
⊠	2	.109 +.004 -.002	NOT_PLATED_THRU
△	694	.018 ±.003	PLATED_THRU_HOLE

	SIGNATURES	DATE
DR	R NORMAN	03/03/98
ENG	R. Bennett	3/3/98
CH	J. Mawrence	3/3/98
APP	C. Crawford	3/4/98
QE	[illegible]	[illegible]
PART.	[illegible]	3/4/98
STRESS	[illegible]	3/5/98
AUTO		

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DIGITAL
HRF WORKSTATION

RELEASE GROUP SEG16113976

CALC WT.

DWG DIR. \PCAD\RELEASE\PCB

DWG FILE: 418620Z.HP

DRAWING TYPE
☒ PLT WIRE
☐ ARWORK (SPECIAL)
☐ OPTL HOLDLE SIZE

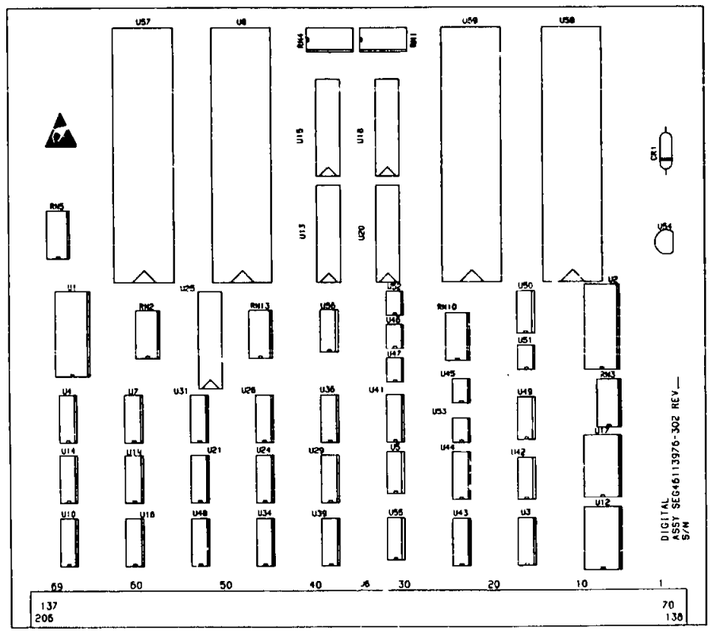
DWG CONFIG NO. 21356 | SIZE D | DWG NO. SDG46114186 | REV A

SCALE 2 : 1 | EAS PROJECT : J104 | SHEET 2 OF 18

276

LTR	ZONE	REVISION	DATE	EQUIP TYPE	APPROVAL
		SEE SHEET ONE			

3-9-98 A FM



SILKSCREEN (RR) SDG46114186-002 REV A

	SIGNATURES	DATE
DR	R NORMAN	03/03/98
ENG	[signature]	3/03/98
CH	[signature]	3/3/98
APP	[signature]	3/4/98
QE	[signature]	3/4/98
MATL	[signature]	4/4/98
STRESS	[signature]	3/9/98
AUTH		

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DIGITAL
HRF WORKSTATION

DWG INDEX NO.	SIZE	DWG NO.	REV.
21356	D	SDG46114186	A

SCALE 2 : 1 | EA5 PROJECT : J104 | SHEET 3 OF 18

SEC46113976

CALC WT:

DRW DIR: \PCAD\RELEASE\PCB

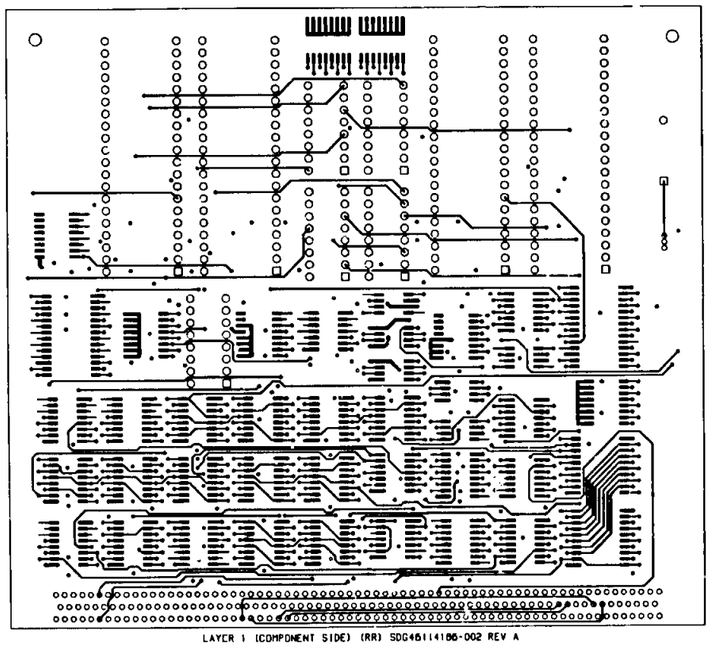
DRW FILE: 41862D3.HP

GROUP TYPE
☒ PLT GROUP
☐ GROUP (SPECIFY)
☐ APPLICABLE DOC

277

LTR	ZONE	REVISION	DATE	EQUIP TYPE	APPROVAL
		SEE SHEET ONE			

3-9-98 A fm



LAYER 1 (COMPONENT SIDE) (RR) SDG46114186-002 REV A

SIGNATURES	DATE
DR R NORMAN	03/03/98
ENG [signature]	3/3/98
CH [signature]	3/3/98
APP [signature]	3/4/98
JE [signature]	3/4/98
MATL [signature]	3/6/98
STRESS [signature]	3/3/98
AUTH	

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DIGITAL
HRF WORKSTATION

CODE IDENT NO.	SIZE	DWG NO.	REV.
21356	D	SDG46114186	A

SCALE 2 : 1 — EA5 PROJECT : J104 — SHEET 4 OF 18

NEXT ASSY SEG46113976

CALC WT.

DRW DIR. \PCAD\RELEASE\PCB

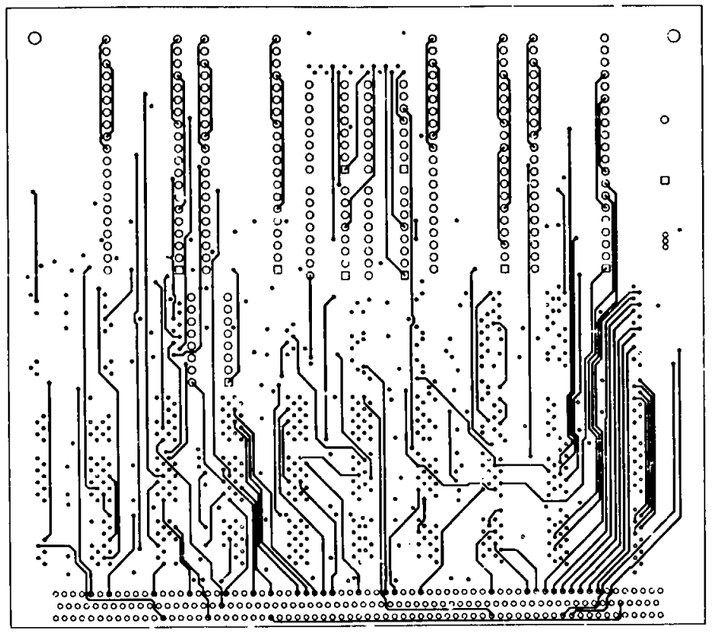
DRW FILE. 4186204.HP

GRAPH TYPE
☒ FLT HDWR
☐ OTHER (SPECIFY)
☐ APP (CABLE SIZE)

278

LTR	ZONE	REVISION	DATE	EQUIP TYPE	APPROVAL
		SEE SHEET ONE			

3-9-98 A fm



LAYER 2 (INNER LAYER 1 SIGNAL) (RR) SDG46114186-002 REV A

SIGNATURES		DATE
DR	R NORMAN	03/03/98
ENG	R. Barnett	3/03/98
CH	J. Pulanovic	3/3/98
APP	P. Aguilar	3/4/98
DE	M. Anson SGC	3/4/98
MATL	Henry Kim	3/4/98
STRESS	[illegible]	3/3/98
AUTH		

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DIGITAL
HRF WORKSTATION

CODE IDENT NO.	SIZE	DWG NO.	REV.
21356	D	SDG46114'86	A

SCALE 2 : 1 | EAS PROJECT : J104 | SHEET 5 OF 18

NEXT ASSY: SEG46113976

CALC WT.:

DWG DIR.: \PCAD\RELEASE\PCB

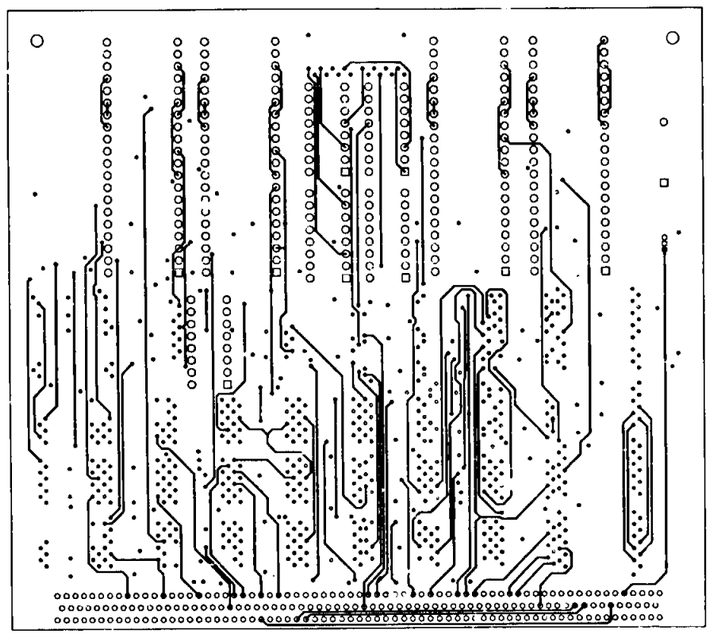
DWG FILE: 41862D5.HP

GRAPH TYPE: ☒ FLT HDWR ☐ OTHER (SPECIFY) ☐ NON-VEHICLE USE

279

LTR	ZONE	REVISION	DATE	EQUIP TYPE	APPROVAL
		SEE SHEET ONE			

3-9-98 A



LAYER 3 (INNER LAYER 2 SIGNAL) (RR) SDG46114186-002 REV A

SIGNATURES		DATE
DR	R NORMAN	03/03/98
ENG	R. Burnett	3/4/98
CH	J. Pilanovic	3/3/98
APP	C. Chandelleau	3/4/98
QE	M. Jason Sdz	3/4/98
MATL	Henry Kao	3/4/98
STRESS	[illegible]	3/3/98
AUTH		

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DIGITAL
HRF WORKSTATION

NEXT ASSY: SEG46113976

CALC WT:

DWG DIR: \PCAD\RELEASE\PCB

DWG FILE: 4186206.HP

COMP TYPE: ☒ FLT HDRV ☐ DRIVEN (SPECIFY) ☐ APPL CABLE HDR

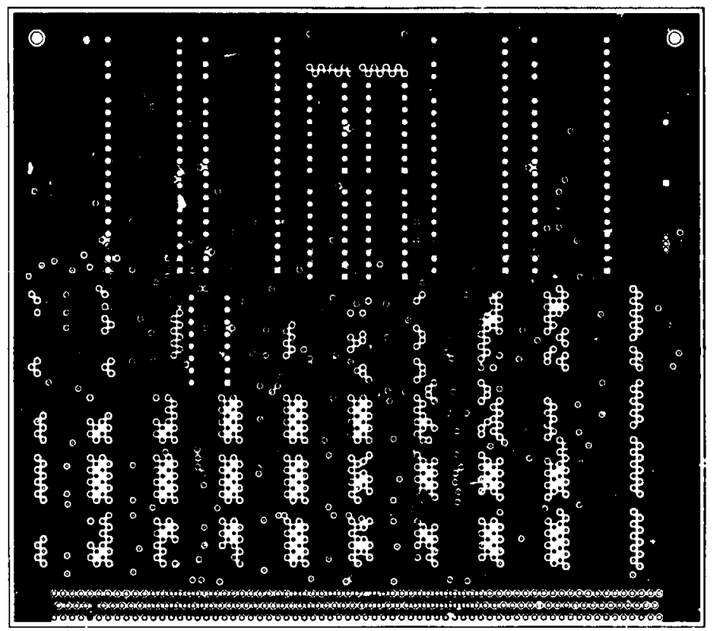
CODE IDENT NO.	SIZE	DWG NO.	REV.
21356	D	SDG46114186	A

SCALE 2:1 | EA5 PROJECT :J104 | SHEET 6 OF 18

280

LTR	ZONE	REVISION	DATE	EQUIP TYPE	APPROVAL
		SEE SHEET ONE			

3-9-98 A



LAYER 4 (INNER LAYER 3 232GND PLANE) (RR) SDG46114186-002 REV A

	SIGNATURES	DATE
DR	R NORMAN	03/03/98
ENG	[signature]	3/4/98
CH	[signature]	3/3/98
APP	[signature]	3/4/98
QE	[signature]	3/4/98
MATL	[signature]	3/4/98
STRESS	[signature]	3/3/98
AUTH		

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DIGITAL
HRF WORKSTATION

CODE IDENT NO.	SIZE	DWG NO.	REV.
21356	D	SDG46114186	A

SCALE 2:1 — EAS PROJECT :J104 — SHEET 7 OF 18

NEXT ASSY: SEG46113976

CALC WT:

DRN DIR: \PCAD\RELEASE\PCB

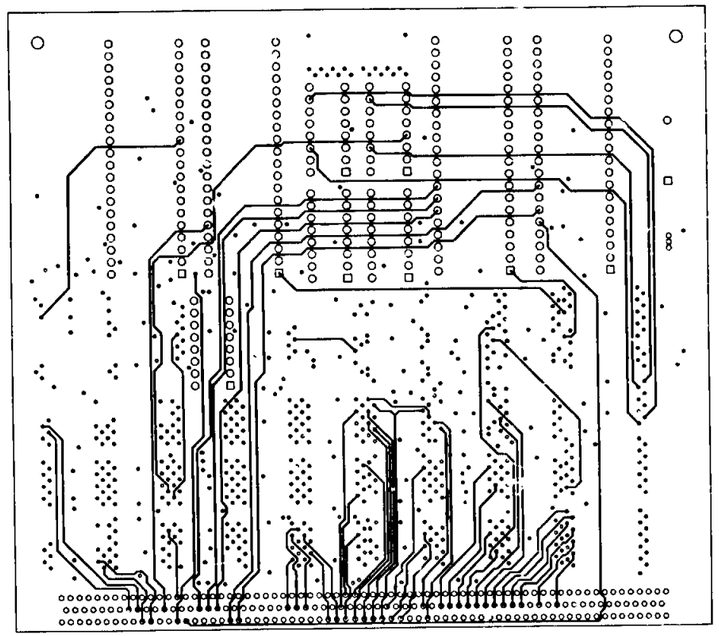
DRN FILE: 4186207.HP

DRAWING TYPE: ☒ PLT ASSY ☐ DRAWN SPECIFY ☐ APPLICABLE SIZE

281

LTR	ZONE	REVISION	DATE	EQUIP TYPE	APPROVAL
		SEE SHEET ONE			

3-9-98 A FM



LAYER 5 (INNER LAYER 4 SIGNAL) (RR) SDG46114186-002 REV A

SIGNATURES		DATE
DR	R NORMAN	03/03/98
ENG	R Bennett	3/3/98
CH	J Klanovic	3/3/98
APP	P Thompson	3/4/98
QE	Wm. Shaw Sole	3/4/98
MATL	Harry Kan	3/4/98
STRESS	[illegible]	3/3/98
AUTH		

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DIGITAL
HRF WORKSTATION

CODE IDENT NO.	SIZE	DWG NO.	REV.
21356	D	SDG46114186	A

SCALE 2 : 1 — EA5 PROJECT : J104 — SHEET 8 OF 18

NEXT ASSY: SEG46113976

CALC WT.:

DWG DIR.: \PCAD\RELEASE\PCB

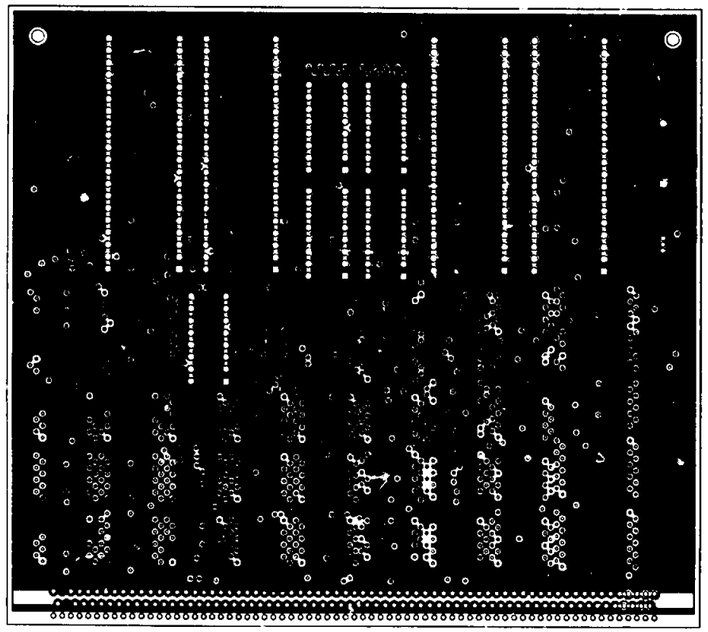
DWG FILE: 4186208.HP

GROUP TYPE
☒ PLT GRND
☐ SPACE DEPOSITS
☐ APPLICABLE SIZE

282

LTR	ZONE	REVISION	DATE	EQUIP TYPE	APPROVAL
		SEE SHEET ONE			

3-9-98 A



LAYER 6 (INNER LAYER 5 +5VDCOUT PLANE) (RR) SDG46114186-002 REV A

		SIGNATURES	DATE
		DR R NORMAN	03/03/98
		ENG [signature]	3/3/98
		CH [signature]	3/3/98
		APP [signature]	3/4/98
		QE [signature]	3/4/98
		MATL [signature]	3/4/98
		STRESS [signature]	3/3/98
		AUTH	

NEXT ASSY SEG46113976

CALC WT.

DRW DIR. \PCAD\RELEASE\PCB

DRW FILE: 4186209.HP

COMP TYPE
☒ FLT HDWR
☐ OTHER (SPECIFY)
☐ APPLICABLE USE

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LYNDON B. JOHNSON SPACE CENTER — HOUSTON, TEXAS

PRINTED WIRING BOARD
DIGITAL
HRF WORKSTATION

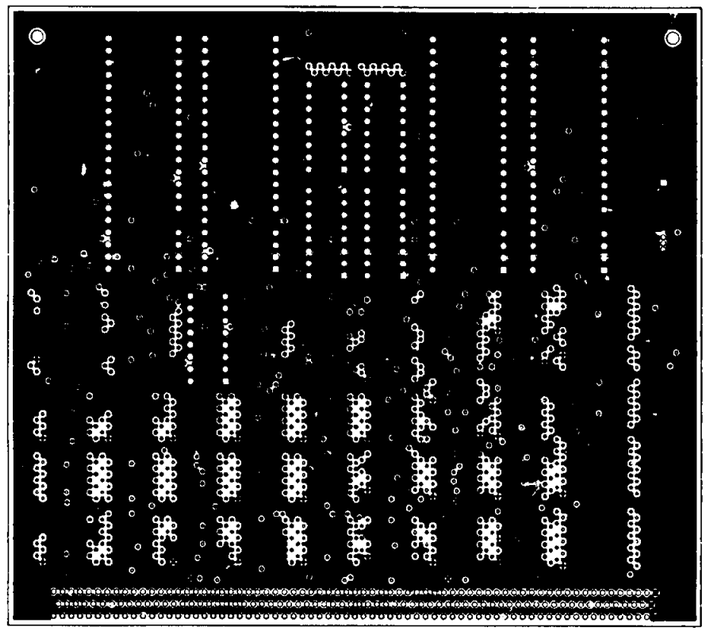
CODE IDENT NO.	SIZE	DWG NO.	REV
21356	D	SDG46114186	A

SCALE 2 : 1 — EA5 PROJECT :J104 — SHEET 9 OF 16

283

LTR	ZONE	REVISION	DATE	EQUIP TYPE	APPROVAL
		SEE SHEET ONE			

3-9-98 A Am



LAYER 7 (INNER LAYER 6 POWER PLANE) (RR) SDG46114186-002 REV A

	SIGNATURES	DATE
DR	R NORMAN	03/03/98
ENG	R Bennett	3/3/98
CH	J Dilanovic	3/3/98
APP	C. Gaudy Mann	3/4/98
QE	M. Moore SDE	3/4/98
MATL	Henry Kim	3/4/98
STRESS	[illegible]	3/3/98
AUTH		

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PRINTED WIRING BOARD
DIGITAL
HRF WORKSTATION

CODE IDENT NO.	SIZE	DWG NO.	REV.
21356	D	SDG46114186	A

SCALE 2 : 1 | EA5 PROJECT : J104 | SHEET 10 OF 18

HEAT ASSY SEG461139/6

CALC NO.

DIM DIST: \PCAD\RELEASE\PCB

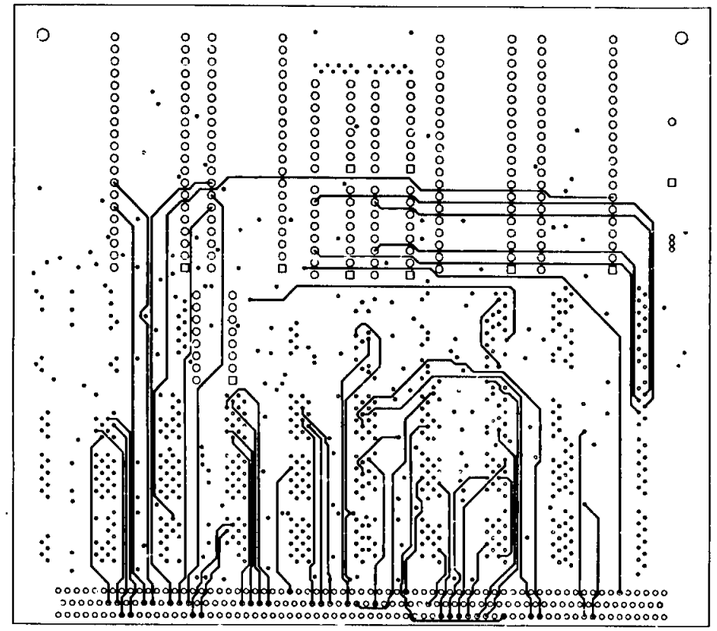
DIM FILE: 41862D10.hp

GROUP TYPE
☒ FLT HDWR
☐ OTHER (SPECIFY)
☐ APPLICABLE USE

284

LTR	ZONE	REVISION	DATE	EQUIP TYPE	APPROVAL
		SEE SHEET ONE			

3-9-98 A



LAYER 6 (INNER LAYER 7 SIGNAL) (RR) SDG46114186-002 REV A

	SIGNATURES	DATE
DR	R NORMAN	03/03/98
ENG	R. Bennett	3/3/98
CH	J. Dilanovic	3/3/98
APP	C. Engelbaum	3/4/98
DE	M. Jack Cole	3/3/98
MATL	Henry Kao	3/3/98
STRESS	[illegible]	3/3/98
AUTH		

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PRINTED WIRING BOARD
DIGITAL
HRF WORKSTATION

DWG NO.	SIZE	DWG NO.	REV.
21356	D	SDG46114186	A

SCALE 2 : 1 — EA5 PROJECT : J104 — SHEET 11 OF 18

NEXT ASSY: SEG46113976

CALC WT:

DRW DIR: \PCAD\RELEASE\PCB

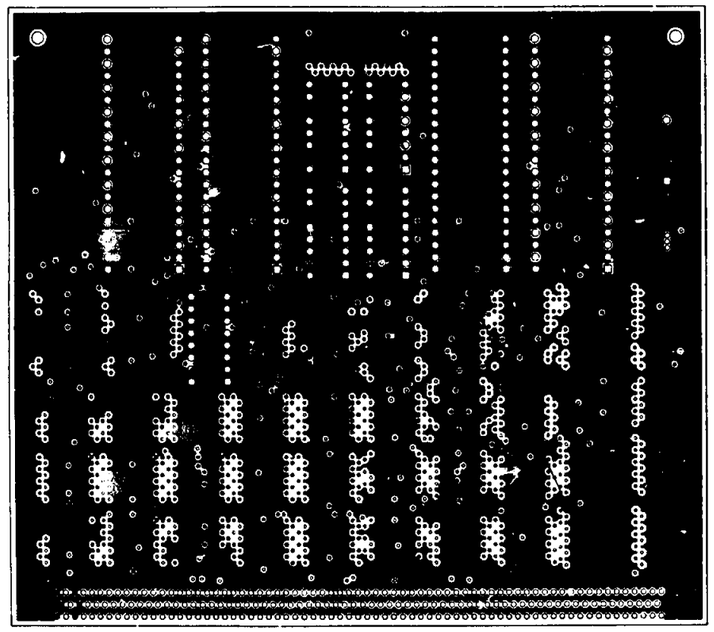
DRW FILE: 41862011.HP

GROUP TYPE: ☒ FLT HDWR ☐ OTHER (SPECIFY) ☐ APPLICABLE SEE

285

LTR	ZONE	REVISION	DATE	EQUIP TYPE	APPROVAL
		SEE SHEET ONE			

3-9-98 A



LAYER 9 (INNER LAYER 8 AGND PLANE) (RR) SDG46114186-002 REV A

NEXT ASSY	SEG46113976
CALC WT.	
DRN DIR.	\PCAD\RELEASE\PCB
DRN FILE.	41852012.HP

SIGNATURES		DATE
DR	R NORMAN	03/03/98
ENG	L. Bennett	3/3/98
CH	J. Camarie	3/3/98
APP	C. Chandler	3/4/98
QE	M. Ava Silc	3/4/98
MATL	Henry Kim	3/4/98
STRESS	[illegible]	3/4/98
AUTH		

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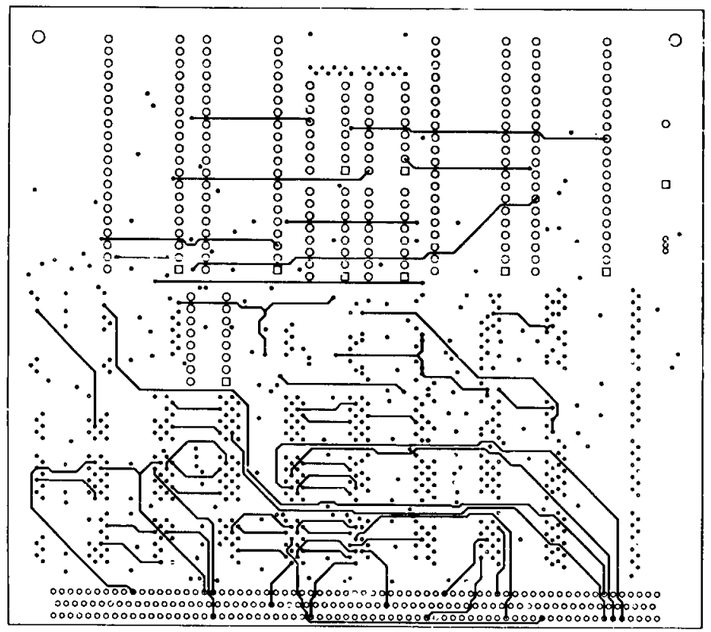
PRINTED WIRING BOARD
DIGITAL
HRF WORKSTATION

SIZE	DWG NO.	REV.
21356	D	SDG46114186	A

SCALE 2:1 — EA5 PROJECT :J104 — SHEET 12 OF 18

286



LAYER 10 (INNER LAYER 9 SIGNAL) (RR) SDG46114186-002 REV A

LTR	ZONE	REVISION	DATE	EQUIP TYPE	APPROVAL
		SEE SHEET ONE			

5-9-98 A

SIGNATURES		DATE
DR	R NORMAN	03/03/98
ENG	R. Bennett	3/3/98
CH	J. McCurvie	3/3/98
APP	E. Brumbellan	3/4/98
QE	M. Ave SQE	3/4/98
MATL	Henry Kao	3/4/98
STRESS	[illegible]	3/5/98
AUTH		

NEXT ASSY SEG46113975

CALC WT.

DRN DIR. \PCAD\RELEASE\PCB

DRN FILE. 41882013.HP

EQUIP TYPE
☒ FLT HDWR
☐ GROUND SUPPORT
☐ APPLICABLE SEE

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LYNDON B. JOHNSON SPACE CENTER HOUSTON TEXAS

PRINTED WIRING BOARD
DIGITAL
HRF WORKSTATION

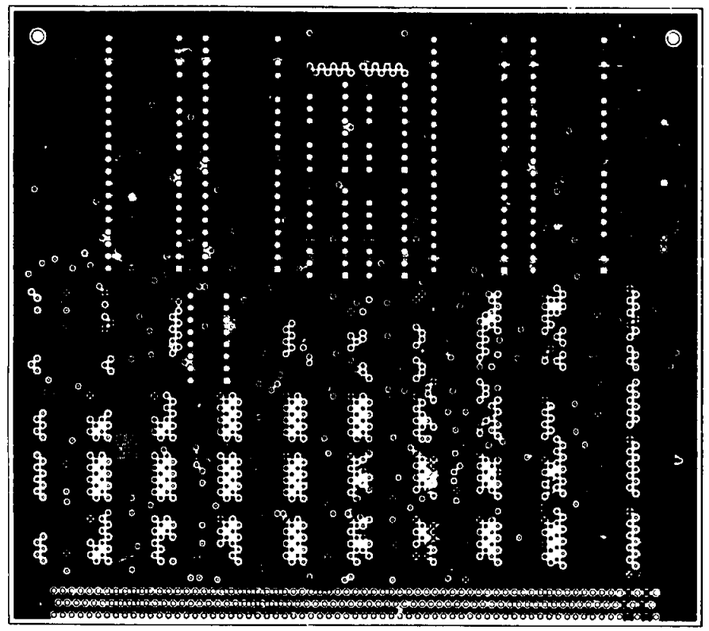
CODE IDENT NO.	SIZE	DWG NO.	REV.
21356	D	SDG46114186	A

SCALE 2 : 1 | EA5 PROJECT :J104 | SHEET 13 OF 18

287

LTR	ZONE	REVISION	DATE	EQUIP TYPE	APPROVAL
		SEE SHEET ONE			

3-9-98 A An



LAYER 1: (INNER LAYER 10 GROUND PLANE) (RR) SDG45114186-002 REV A

	SIGNATURES	DATE
DR	R NORMAN	03/03/98
ENG	R. Barnett	3/3/98
CH	J. Ramirez	3/3/98
APP	P. Mayfield	3/4/98
QE	M. Lee SQC	3/4/98
MATL	Henry Kim	3/6/98
STRESS	[illegible]	3/6/98
AUTH		

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LYNDON B. JOHNSON SPACE CENTER — HOUSTON, TEXAS

PRINTED WIRING BOARD
DIGITAL
HRF WORKSTATION

SIZE	CODE IDENT NO.	SIZE	DWG NO.	REV.
21356	D	SDG45114186		A

SCALE 2 : 1 — EAS PROJECT : J104 — SHEET 14 OF 18

NEXT ASSY: SEG45113976

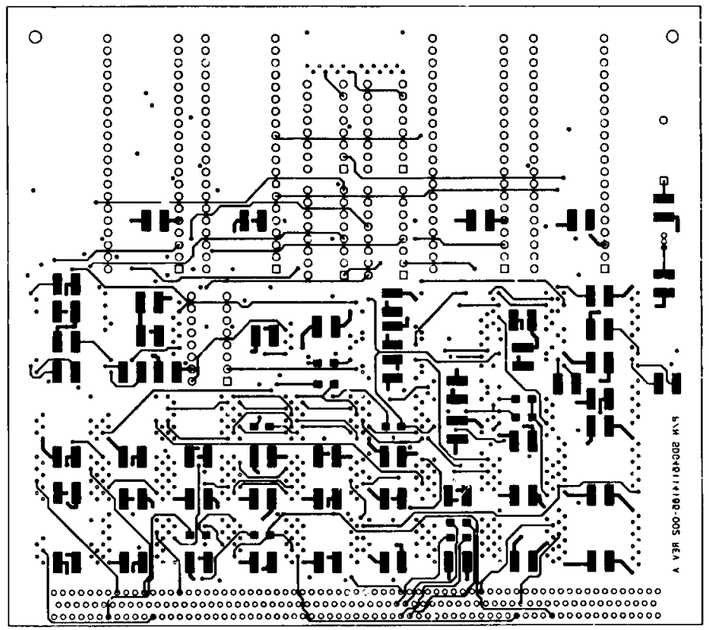
CALC WT:

DRN DIR: \PCAD\RELEASE\PCB

DRN FILE: 41862D14.hp

GROUP TYPE
- [x] FLT HDWR
- [ ] STRESS REPORTS
- [ ] APPLICABLE DOC

288



LTR	ZONE	REVISION	DATE	EQUIP TYPE	APPROVAL
		SEE SHEET ONE			

3-9-98 A

SIGNATURES		DATE
DR	R NORMAN	03/03/98
ENG	R. Bennett	3/3/98
CH	J. Delaware	3/3/98
APP	E. Ellis Allan	3/4/98
QA	M. Lewis SDE	3/4/98
MATL	Henry Kim	3/4/98
STRESS	[illegible]	3/3/98
MUTH		

NEXT ASSY: SDG46113976

CALC WT:

DRW DIR: \PCAD\RELEASE\PCB

DRW FILE: 41862D15.HP

GROUP TYPE: ☒ PLT WORK ☐ OTHER (SPECIFY) ☐ APPLICABLE SIDE

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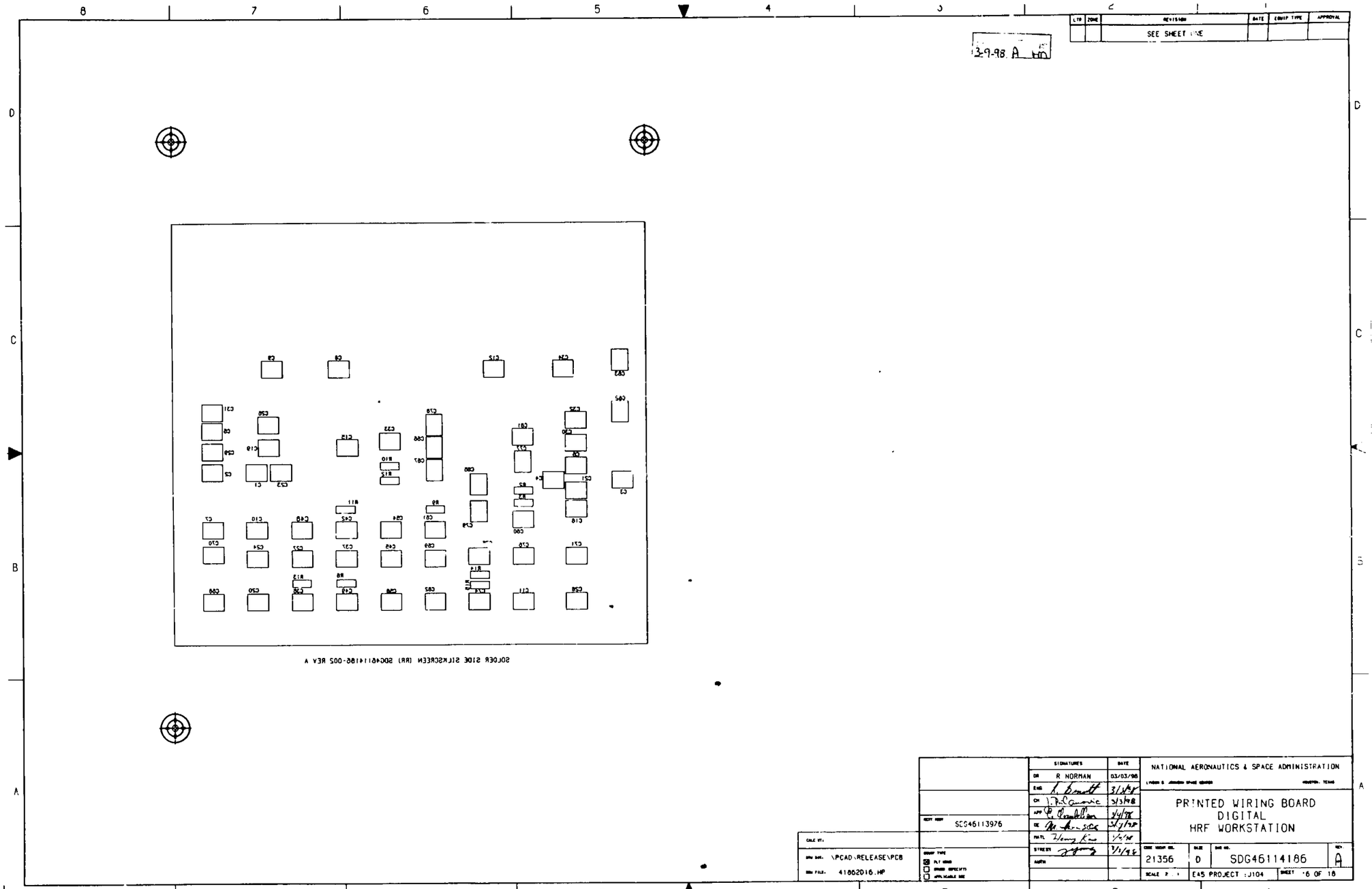
HRF WORKSTATION

CODE IDENT NO.	SIZE	DWG NO.	REV.
21356	D	SDG46114186	A

SCALE 2 : 1 — EA5 PROJECT : J104 — SHEET 15 OF 18

289



LTR	ZONE	REVISION	DATE	EQUIP TYPE	APPROVAL
		SEE SHEET ONE			

3-9-98 A HD

SIGNATURES		DATE
DR	R NORMAN	03/03/98
ENG	R. Bennett	3/3/98
CH	J. McCamonic	3/3/98
APP	P. Chamberlain	3/4/98
DE	M. Hansen	3/4/98
MATL	Henry Kim	3/4/98
STRESS	[illegible]	3/3/98
AUTH		

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DIGITAL
HRF WORKSTATION

CODE IDENT NO.	SIZE	DWG NO.	REV.
21356	D	SDG46114186	A

SCALE 2 : 1 — EAS PROJECT : J104 — SHEET 16 OF 18

NEXT ASSY: SDG46113976

CALC WT:

DRW DIR: \PCAD\RELEASE\PCB

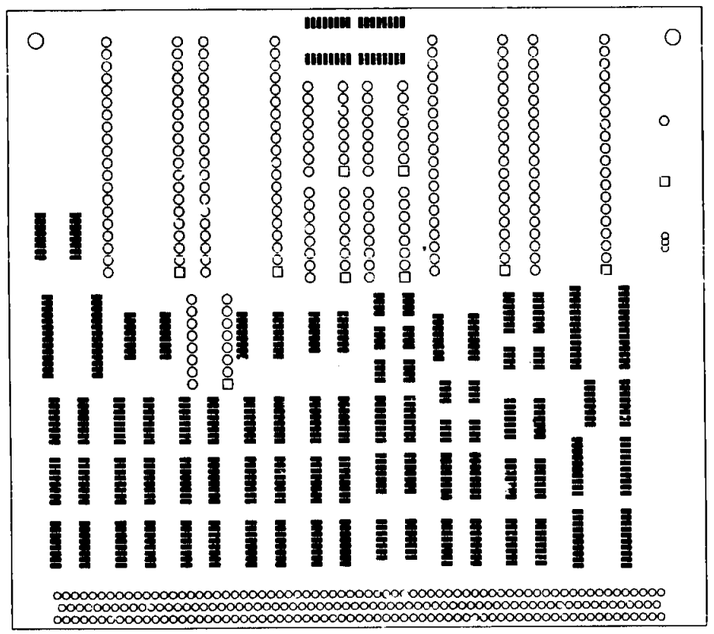
DRW FILE: 41862016.HP

GROUP TYPE: ☒ FLT HDWD ☐ GRADE SPECIFIC ☐ APPLICABLE SEE

290

LTR	ZONE	REVISION	DATE	EQUIP TYPE	APPROVAL
		SEE SHEET ONE			

3-9-98 A Fm



COMPONENT SIDE SOLDERMASK (RR) SDG46114186-002 REV A

NEXT ASSY	SEG46113976
CALC WT.	
DRW DIR.	\PCAD\RELEASE\PCB
DRW FILE:	41862017.HP

GRAPH TYPE
- ☒ PLT HDWR
- ☐ OTHER (SPECIFY)
- ☐ APPLICABLE SIZE

SIGNATURES		DATE
DR	R NORMAN	03/03/98
ENG	R. Bennett	3/3/98
CH	J. Pelanovic	3/3/98
APP	C. Chamberlain	3/4/98
QE	M. Lyon SDG	3/4/98
MATL	Henry Kao	3/4/98
STRESS	Young	3/4/98
AUTH		

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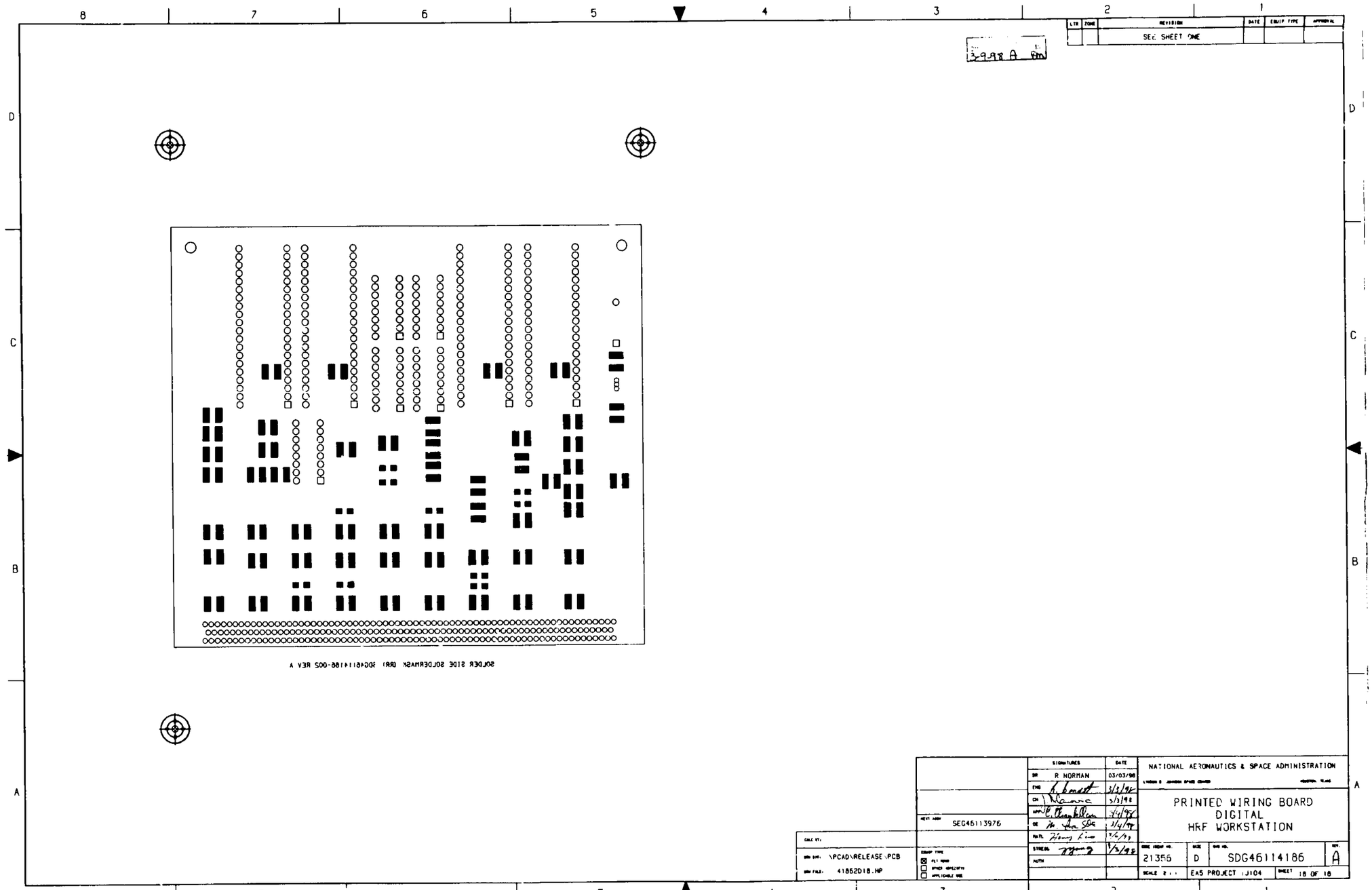
DIGITAL
HRF WORKSTATION

DWG HIGHT NO.	SIZE	DWG NO.	REV.
21356	D	SDG46114186	A

SCALE 2 : 1 — EAS PROJECT : J104 — SHEET 17 OF 18

291



LTR	ZONE	REVISION	DATE	EQUIP TYPE	APPROVAL
		SEE SHEET ONE			

3-9-98 A

SIGNATURES		DATE
DR	R NORMAN	03/03/98
ENG	R. Bendett	3/3/98
CH	[illegible]	3/3/98
APPR	E. Chambellan	3/4/98
QE	[illegible]	3/4/98
MATL	[illegible]	3/4/98
STRESS	[illegible]	3/3/98
AUTH		

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DIGITAL
HRF WORKSTATION

CODE IDENT NO.	SIZE	DWG NO.	REV.
21356	D	SDG46114186	A

SCALE 2:1 — EA5 PROJECT :J104 — SHEET 18 OF 18

NEXT ASSY: SEG46113976

CALC WT:

DRN DIR: \PCAD\RELEASE\PCB

DRN FILE: 41862D18.HP

EQUIP TYPE: ☒ FLT HDWD ☐ OTHER (SPECIFY) ☐ APPLICABLE USE

292