

\* INDICATES OPTIONAL  
TO BE USED WITH VT50-HA THRU VT50-JC ONLY

TITLE	SIZE CODE	NUMBER	REV
DRAWING DIPECTORY (VT50)	B DD	VT50-0	C

DRB 107  
DEC 16-1971-1062-3-N871

CUSTOMER PRINT SET		ELECTRICAL				CUSTOMER PRINT SET		ELECTRICAL					
MFG. SET	FIND NO.	DRAWING NO.	REV.	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	MFG. SET	FIND NO.	DRAWING NO.	REV.	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
	1	A-IA-VT50-0-0		2	UNIT ASSY VT50								
		A-PL-VT50-0		2	ENGINEERING SPEC.								
		A-SP-VT50-0-2			ACCEPTANCE SPEC.								
		A-SP-VT50-0-3			MFG. SPEC.								
		A-SP-VT50-0-1			ENGINEERING SPEC.								
	11	1-IA-7011220-0-0			POWER SUPPLY ASSY								
		1-IA-7011186-0-0			HARNESS POWER SUPPLY								
		1-IA-7011187-0-0			HARNESS YOKE								
		2-IA-7413948-0-0			HARNESS CRT								
	11A	D-CS-5410886-0-1		4	MONITOR POWER SUPPLY								
		K-CO-5410886-0-4		1	X-Y COORDINATE HOLE LOCATION								
		D-AH-5410886-0-5		1	ASSY/DRILLING HOLE LAYOUT								
		L-MH-5410886-0-6		1	MODULE HISTORY								
		E-IA-7412849-0-0		1	SPREADER HEAT								
		E-MD-9606352-0-0		1	PERIPHERY DIE								
	12	D-CS-5410902-0-1		4	ROM UART AND TIMING								
		K-CO-5410902-0-4		1	X-Y COORDINATE HOLE LOCATION								
		D-AH-5410902-0-5		1	ASSY/DRILLING HOLE LAYOUT								
		B-YH-5410902-0-6		1	MODULE ECO HISTORY								
		E-MD-9606361-0-0		1	PERIPHERY DIE								
	13	D-CS-5410906-0-1		4	DATA PATHS MEMORY AND DECODER								
		K-CO-5410906-0-4		1	X-Y COORDINATE HOLE LOCATION								
		D-AH-5410906-0-5		1	ASSY/DRILLING HOLE LAYOUT								
		B-MH-5410906-0-6		1	MODULE ECO HISTORY								
		E-MD-9606360-0-0		1	PERIPHERY DIE								
		C-AD-7011144-0-0		1	CABLE ASSY								
	14	D-CS-5410893-0-1		4	KEYBOARD "A" VT50								
		K-CO-5410893-0-4		1	X-Y COORDINATE HOLE LOCATION								
		D-AH-5410893-0-5		1	ASSY/DRILLING HOLE LAYOUT								
		B-MH-5410893-0-6		1	MODULE ECO HISTORY								
		E-MD-9606359-0-0		1	PERIPHERY DIE								
		D-IA-7010912-0-0		1	CABLE ASSY								
	15	D-CS-5411170-0-1		2	KEYBOARD VT51/VT50H								
		K-CO-5411170-0-4		1	X-Y COORDINATE HOLE LOCATION								
		D-AH-5411170-0-5		1	ASSY/DRILLING HOLE LAYOUT								
		B-MH-5411170-0-6		1	MODULE ECO HISTORY								
		D-IA-7010912-0-0		1	CABLE ASSY								
	16	A-PL-7010933-0-0		1	MODULE PACKAGE (VT50)								
		D-CS-5410886-0-1		1	MONITOR POWER SUPPLY								
		D-CS-5410906-0-1		1	DATA PATHS MEM. AND DECODER								
		D-CS-5410902-0-1		1	ROMUART AND TIMMING								
		A-SP-3700179-0-0		3	PACKAGING INST.								
		A-SP-3700180-0-0		2	PACKAGING INST.								
		A-SP-3700181-0-0		2	PACKAGING INST.								
		A-SP-3700182-0-0		2	PACKAGING INST.								
	17	D-CS-5411448-0-1		4	VT50 EIA ADAPTER								
		K-CO-5411448-0-4		1	X-Y COORDINATE HOLE LOCATION								
		D-AH-5411448-0-5		1	ASSY/DRILLING HOLE LAYOUT								
		B-MH-5411448-0-6		1	MODULE ECO HISTORY								
	18	B-DD-7010668-0			COPIER ASSY								
	19	A-PL-POPIO-0-SHIP			DEC SYSTEM IO SHIPPING LIST								
	20	D-IA-701089-0-0			DEC SYSTEM IO 283 TO VT50 CABLE								

CUSTOMER PRINT SET CODES  
X = PRINT OF DOCUMENT INCLUDED IN PRINT SET  
C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT  
S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

TITLE: DRAWING DIRECTORY (VT50)  
SIZE CODE: B DD  
NUMBER: VT50 0  
REV: C

DRB 109  
DEC 14 (1985) 1067-20-R372

SHEET 3 OF 5





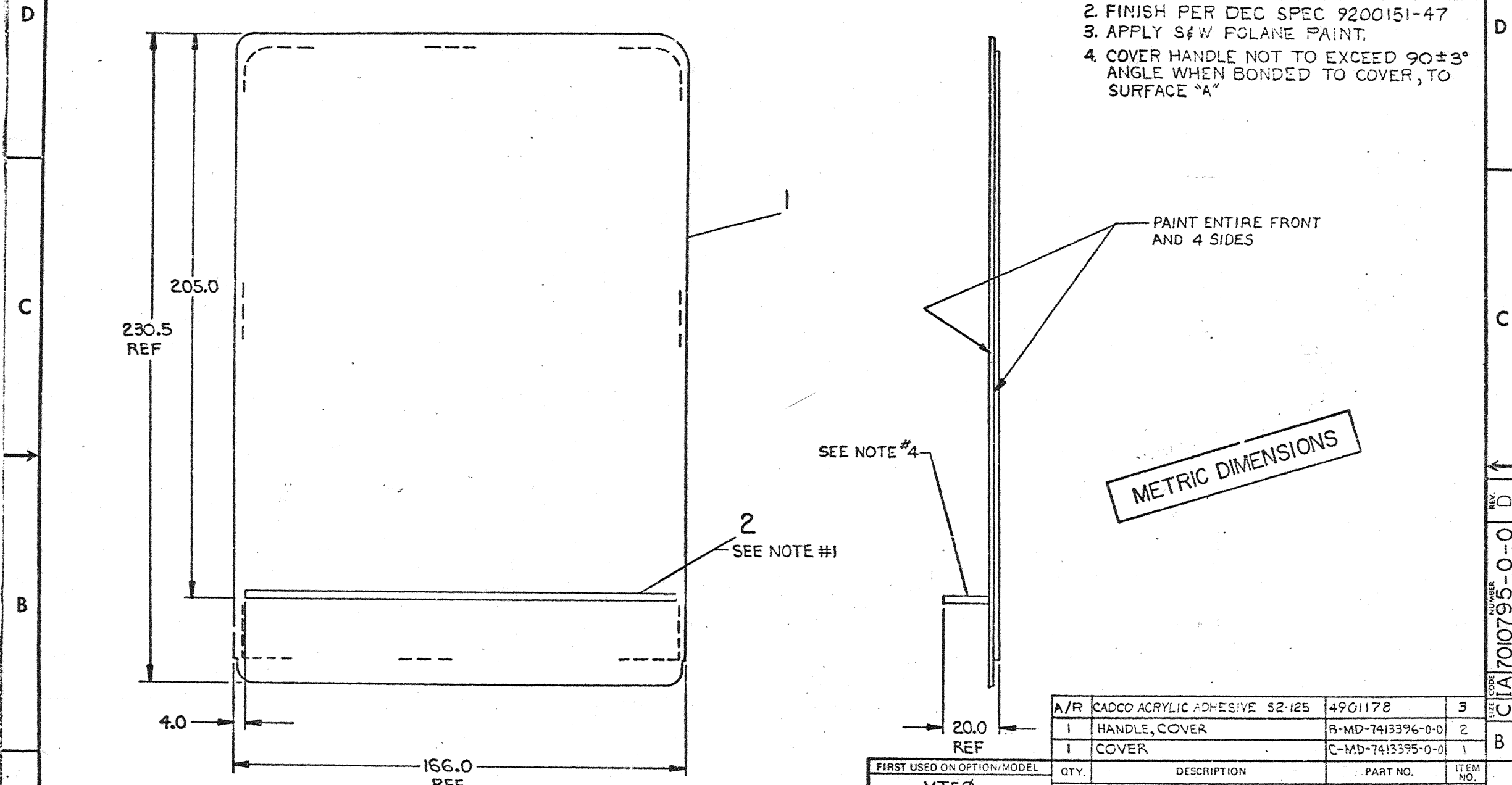


"THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975, DIGITAL EQUIPMENT CORPORATION"

DO NOT SCALE DRAWING

NOTES:

1. BOND ITEM #2 (HANDLE, COVER) TO ITEM #1 (COVER) USE ADHESIVE PURCHASE SPEC. 4901178.
2. FINISH PER DEC SPEC 9200151-47
3. APPLY S&W FOLANE PAINT.
4. COVER HANDLE NOT TO EXCEED  $90 \pm 3^\circ$  ANGLE WHEN BONDED TO COVER, TO SURFACE "A"



REV.	CHANGE NO.	REV.
A	7010795-00001	1-23-75
B	7010795-00002	1-23-75
C	7010795-00003	1-13-75
D	7010795-00004	1-13-75

L. BALOGH  
 L. BALOGH  
 M. MORGANSTERN  
 M. MORGANSTERN  
 M. MORGANSTERN

MILLIMETERS	DECIMALS	ANGLES
X.XX = ±0.10	----	±0° 30'
X.X = ±0.5	----	
X = ±2	----	

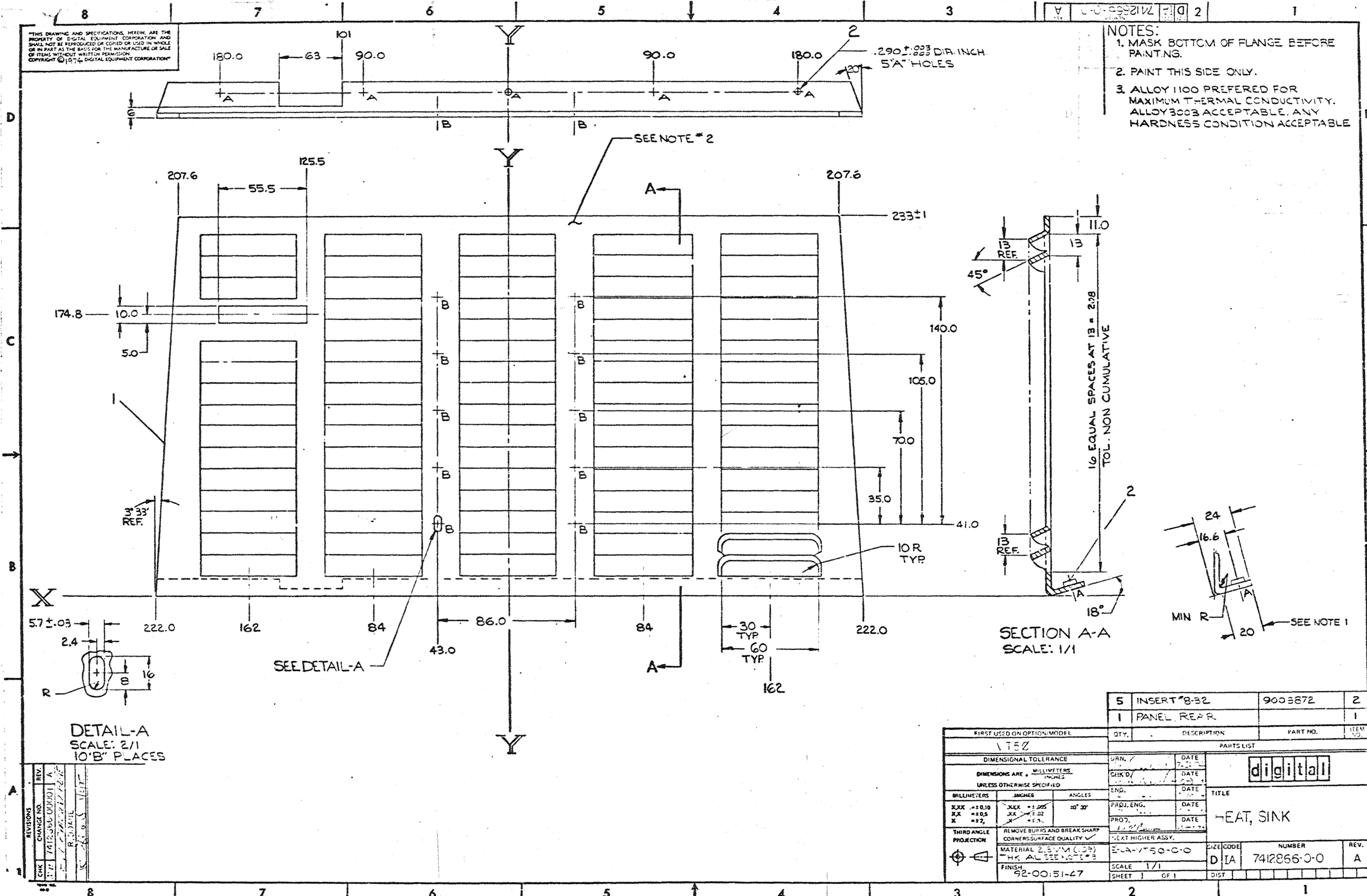
THIRD ANGLE PROJECTION

FIRST USED ON OPTION/MODEL		PARTS LIST	
VT50			
UNLESS OTHERWISE SPECIFIED DIMENSION IN MILLIMETERS	DRN. DATE	digital EQUIPMENT CORPORATION	
TOLERANCES	CHK'D. DATE	MAYNARD, MASSACHUSETTS	
DECIMALS	ENG. DATE	TITLE	
ANGLES	PROJ. ENG. DATE	COVER, CASSETTE (INTERIM)	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 1	PROD. DATE	SIZE CODE NUMBER REV.	
MATERIAL	NEXT HIGHER ASSY.	C IA 7010795-0-0 D	
SEE PARTS LIST		DIST. 1 OF 1	
FINISH	SCALE 1/1		
SEE NOTE #2	SHEET 1 OF 1		

SIZE CODE NUMBER REV. C IA 7010795-0-0 D

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION, AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974, DIGITAL EQUIPMENT CORPORATION

- NOTES:
1. MASK BOTTOM OF FLANGE BEFORE PAINTING.
  2. PAINT THIS SIDE ONLY.
  3. ALLOY 1100 PREFERRED FOR MAXIMUM THERMAL CONDUCTIVITY. ALLOY 3003 ACCEPTABLE. ANY HARDNESS CONDITION ACCEPTABLE.



SECTION A-A  
SCALE: 1/1

DETAIL-A  
SCALE: 2/1  
10'B" PLACES

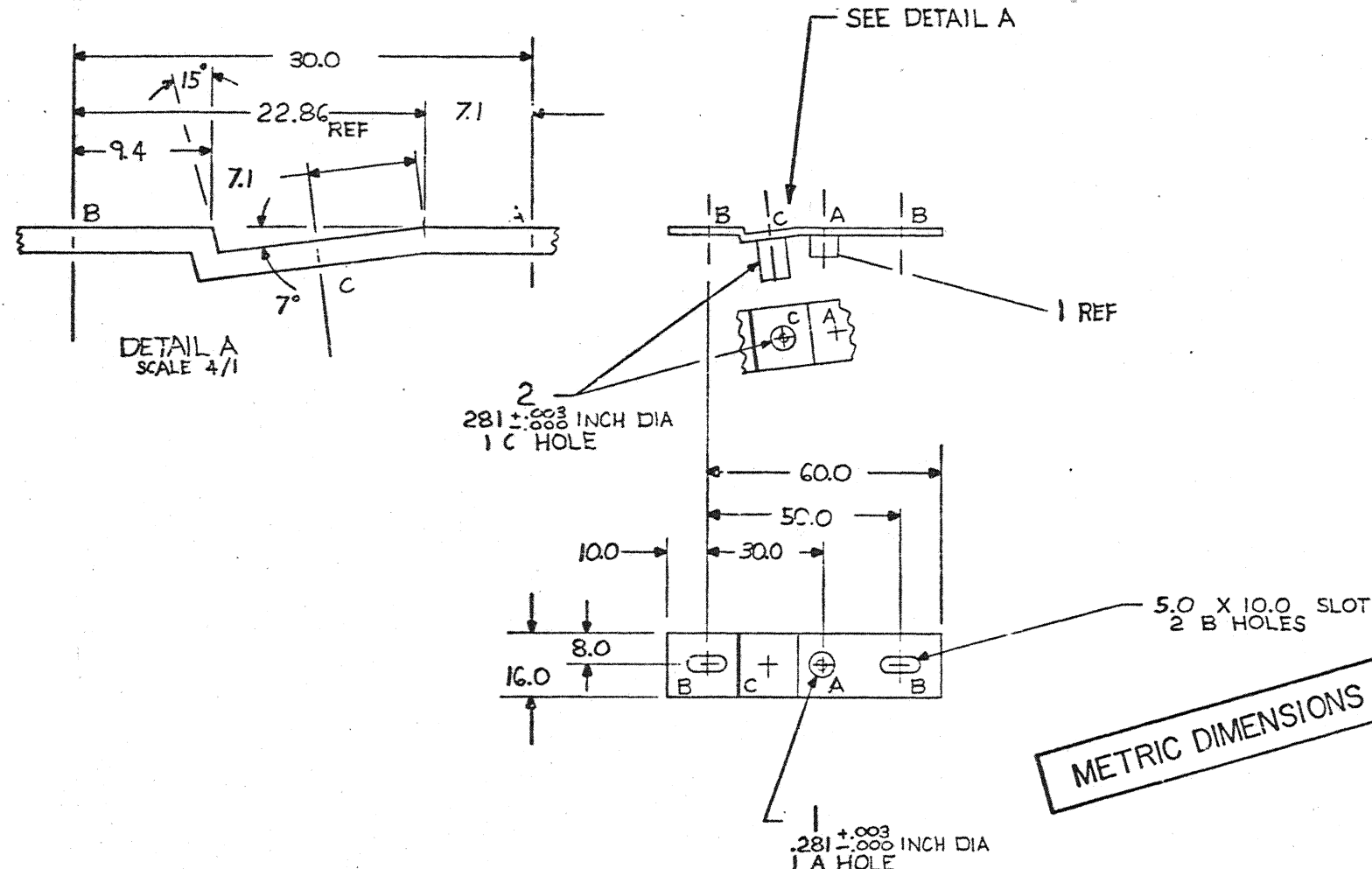
QTY.	DESCRIPTION	PART NO.	ITEM
5	INSERT #8-32	9003872	2
1	PANEL REAR		1

FIRST USED ON OPTION/MODEL		DATE		DATE		DATE		DATE	
175Z		URN	7-22	CHK'D	7-22	ENG.	7-22	PROJ. ENG.	7-22
DIMENSIONAL TOLERANCE		MILLIMETERS		INCHES		UNLESS OTHERWISE SPECIFIED			
MILLIMETERS	INCHES	ANGLES							
XXX ±0.10	XXX ±.005	20° 30'							
XX ±0.05	XX ±.002								
X ±.02	X ±.001								
THIRD ANGLE PROJECTION		REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		NEXT HIGHER ASSY.		TITLE			
MATERIAL 2.05MM (.079)		FINISH 92-00151-27		SCALE 1/1		SHEET 1 OF 1		HEAT SINK	
FINISH 92-00151-27		SCALE 1/1		SHEET 1 OF 1		SIZE CODE		NUMBER	
						DIA		7412856-0-0	
						REV.		A	

REV.	CHANGE NO.	DESCRIPTION
1	1	INITIAL DESIGN
2	2	REVISED TO 175Z
3	3	REVISED TO 175Z
4	4	REVISED TO 175Z
5	5	REVISED TO 175Z
6	6	REVISED TO 175Z
7	7	REVISED TO 175Z
8	8	REVISED TO 175Z

DIA 7412856-0-0

"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974 DIGITAL EQUIPMENT CORPORATION"



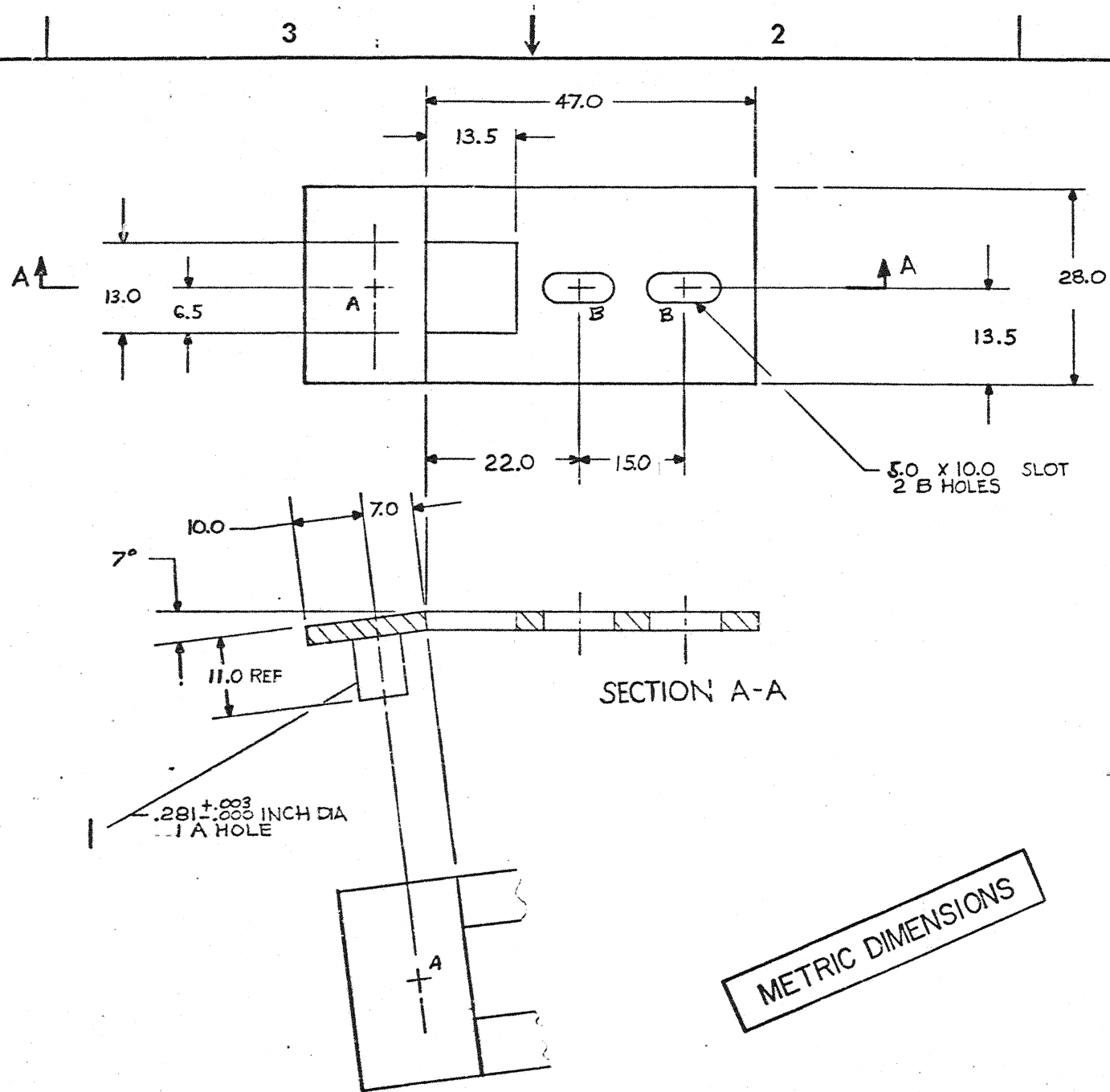
REV.	
CHANGE NO.	
CHK	

1	STANDOFF #8-32-16	9009108-2	2
1	STANDOFF #8-32-10	9009108-0	1

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
VT50					
PARTS LIST					
DIMENSIONAL TOLERANCE		DRN.	DATE		
DIMENSIONS ARE MILLIMETERS INCHES UNLESS OTHERWISE SPECIFIED		CHK'D	DATE		
MILLIMETERS	INCHES	ENG.	DATE		
XXX ± 0.10	XXX ± .005	PROJ. ENG.	DATE		
XX ± 0.5	XX ± .02	PROD.	DATE		
X ± 2	X ± .1			TITLE	
THIRD ANGLE PROJECTION		REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		BRKT, PC BD TO CRT BRKT (LEFT)	
MATERIAL 1/16 INCH THK ALUM		NEXT HIGHER ASSY.		SIZE CODE	NUMBER
FINISH 9200200-CC		MATERIAL 0-UA-VT50-0-0		CIA	7413324-0-0
		SCALE 1/1		REV.	
		SHEET 1 OF 1		DIST.	

REV. NUMBER C I A 7413324-0-0

"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974 DIGITAL EQUIPMENT CORPORATION"



REV.	
CHG	
NO.	

DEC FORM NO. 100-B

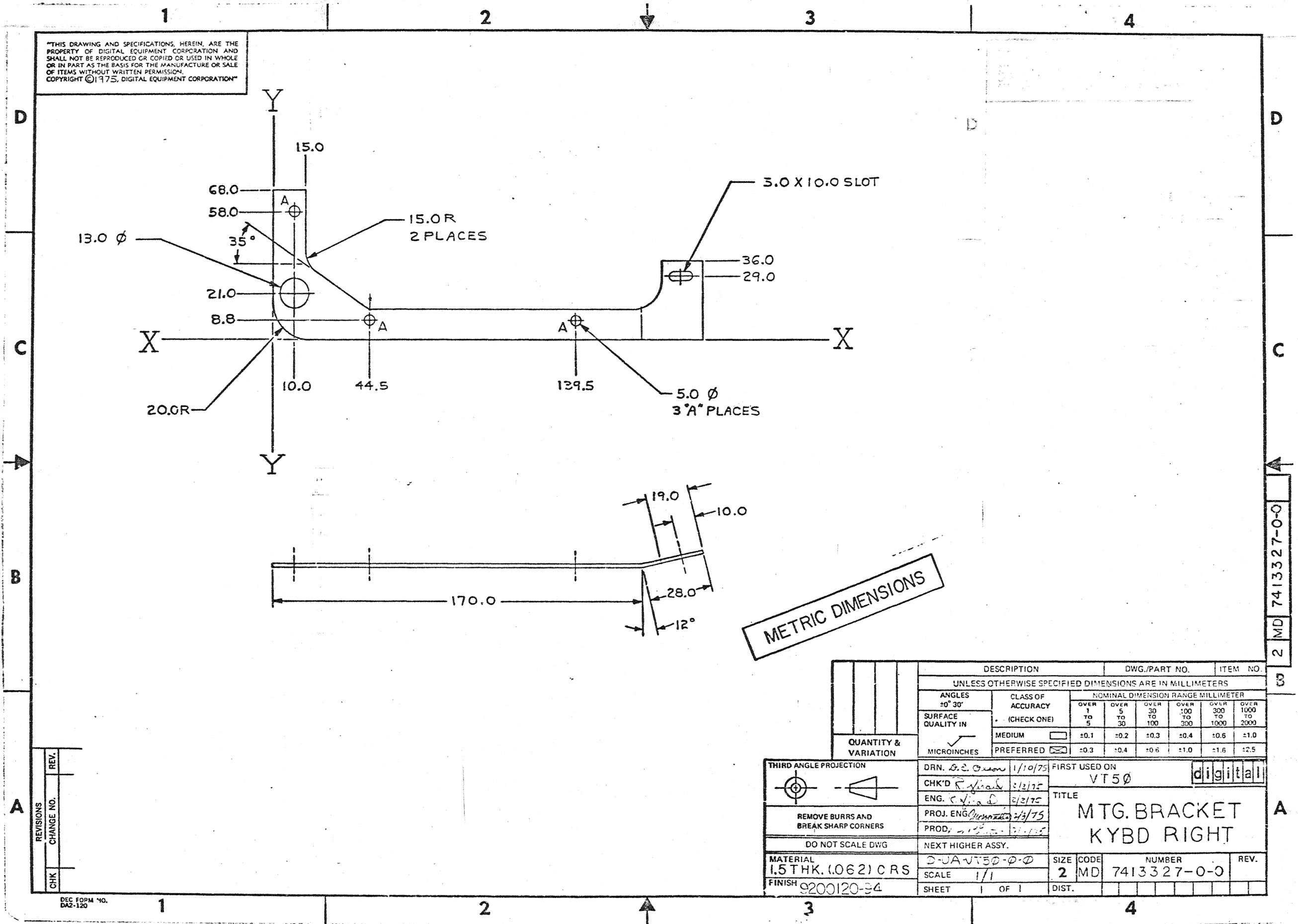
1	STANDOFF #8-32-14	9009108-1	1	B
QTY.	DESCRIPTION	PART NO.	ITEM NO.	
PARTS LIST				
FIRST USED ON OPTION/MODEL VT50				
DIMENSIONAL TOLERANCE				
DIMENSIONS ARE MILLIMETERS INCHES UNLESS OTHERWISE SPECIFIED				
MILLIMETERS	INCHES	ANGLES		
XX ± 0.10	XXX ± .005	30° 30'		
XX ± 0.5	.XX ± .02			
X ± 2	.X ± .1			
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	NEXT HIGHER ASSY.		
MATERIAL	1/16 INCH THK ALUM	Φ-UA-VT50-Φ-Φ	SIZE CODE	NUMBER
FINISH	92002.00-00	SCALE 2/1	C IA	7413326-0-0
SHEET 1 OF 1		REV.		

REV. NUMBER  
C IA 7413326-0-0

digital  
TITLE  
BRKT  
PC BD TO SHELL



"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975, DIGITAL EQUIPMENT CORPORATION"



METRIC DIMENSIONS

REV.	
CHANGE NO.	
CHK	

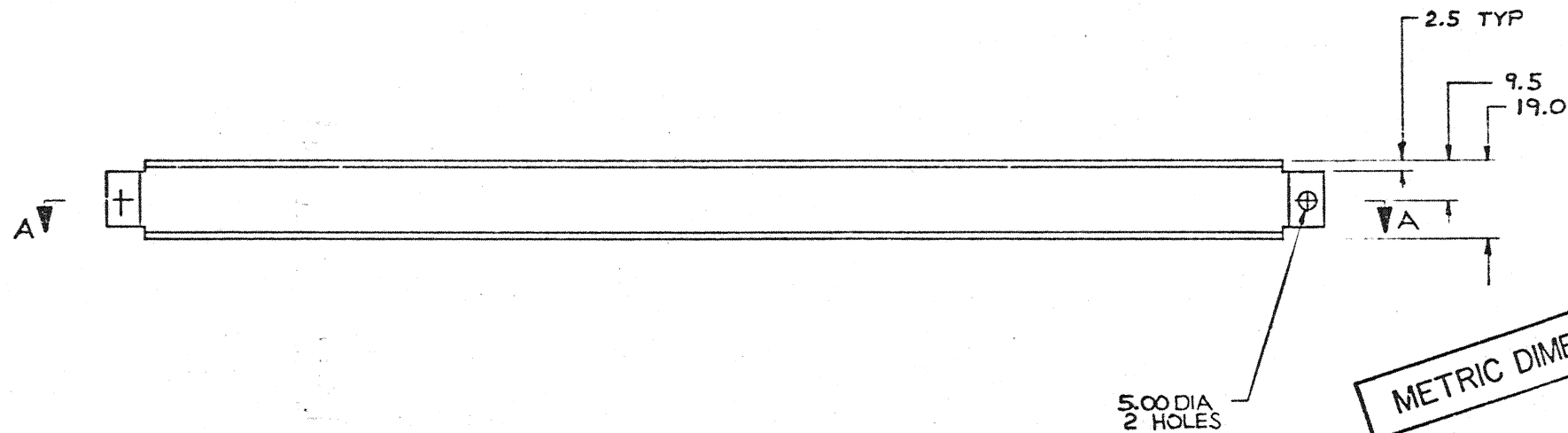
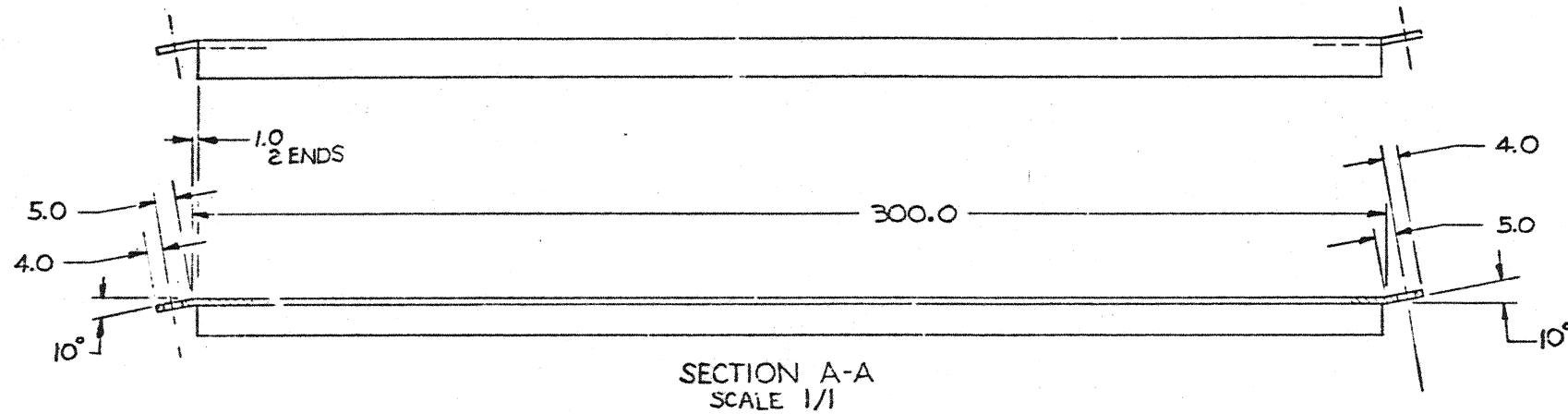
DEC FORM NO. DA2-120

DESCRIPTION		DWG./PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS					
ANGLES ±0° 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE MILLIMETER			
SURFACE QUALITY IN MICROINCHES	• (CHECK ONE)	OVER 1 TO 5	OVER 5 TO 30	OVER 30 TO 100	OVER 100 TO 300
		OVER 300 TO 1000	OVER 1000 TO 2000		
	MEDIUM	±0.1	±0.2	±0.3	±0.4
	PREFERRED	±0.3	±0.4	±0.6	±1.0
QUANTITY & VARIATION	DRN. <i>D. E. Olson</i> 1/10/75	FIRST USED ON			
	CHK'D <i>R. J. ...</i> 2/2/75	VT50 <i>digital</i>			
	ENG. <i>C. V. ...</i> 2/2/75	TITLE			
	PROJ. ENG. <i>...</i> 2/3/75	MTG. BRACKET			
	PROD. <i>...</i> 2/1/75	KYBD RIGHT			
REMOVE BURRS AND BREAK SHARP CORNERS	DO NOT SCALE DWG	NEXT HIGHER ASSY.			
MATERIAL 1.5 THK. (.062) CRS	2-VA-VT50-0-0	SIZE	CODE	NUMBER	REV.
FINISH 9200120-34	SCALE 1/1	2	MD	7413327-0-0	
	SHEET 1 OF 1	DIST.			

2 MD 7413327-0-0



"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975 DIGITAL EQUIPMENT CORPORATION"



METRIC DIMENSIONS

REV.	
CHANGE NO.	
CHK	

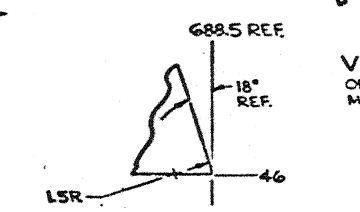
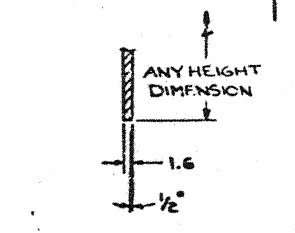
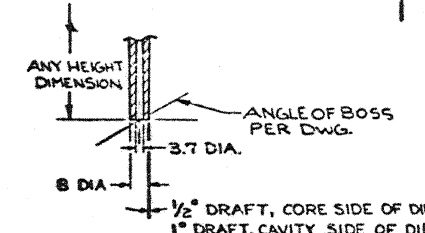
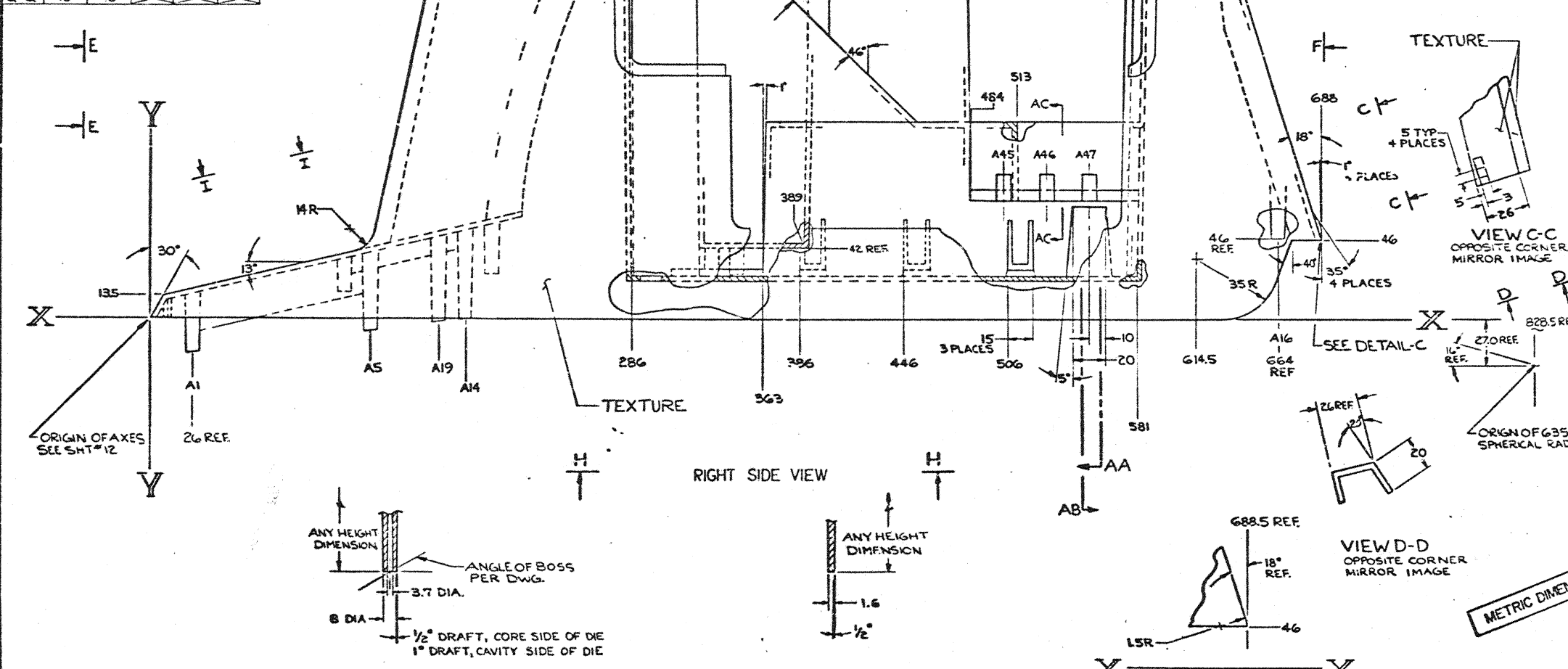
FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
VT50					
DIMENSIONAL TOLERANCE		PARTS LIST			
DIMENSIONS ARE MILLIMETERS INCHES UNLESS OTHERWISE SPECIFIED		DRN. <i>W. H. H. H.</i> DATE 3/2/75			
		CHK'D <i>R. L. S.</i> DATE 2/3/75			
		ENG. <i>R. L. S.</i> DATE 2/3/75			
		PROJ. ENG. <i>W. H. H. H.</i> DATE 2/3/75			
		PROD. <i>W. H. H. H.</i> DATE 2-4-75	TITLE		
THIRD ANGLE PROJECTION		REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		BRACKET, COPIER WELL	
MATERIAL 1/16 INCH THK ALUMINUM		NEXT HIGHER ASSY.		SIZE CODE	NUMBER
FINISH 9200200-00		Φ-UA-VT50-Φ-Φ		C MD	7413400-0-0
		SCALE 1/1		DIST.	
		SHEET 1 OF 1			

REV. NUMBER 7413400-0-0

THIS DRAWING AND SPECIFICATION ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM DIGITAL EQUIPMENT CORPORATION.

LEGEND A								
SECTION	SHEET TAKEN	SHEET SHOWN	SECTION	SHEET TAKEN	SHEET SHOWN	SECTION	SHEET TAKEN	SHEET SHOWN
AA-AA	1	2	EA-EA	5	6	GA-GA	7	7
AB-AB	1	7	EB-EB	9	9	GB-GB	7	7
AC-AC	1	11	EC-EC	9	9	GC-GC	7	7
AD-AD	2	2	ED-ED	9	9	GD-GD	7	7
AE-AE	2	2	EE-EE	9	9	GD-GD	7	7
AF-AF	2	2	EF-EF	9	9	GD-GD	7	7
AG-AG	2	2	FF-FF	9	9	GD-GD	7	7
AH-AH	2	2	FG-FG	9	9	GD-GD	7	7
AI-AI	2	2	GG-GG	9	9	GD-GD	7	7
AJ-AJ	2	2	HH-HH	9	9	GD-GD	7	7
AK-AK	2	2	II-II	9	9	GD-GD	7	7
AL-AL	2	2	JJ-JJ	9	9	GD-GD	7	7
AM-AM	2	2	KK-KK	9	9	GD-GD	7	7
AN-AN	2	2	LL-LL	9	9	GD-GD	7	7
AO-AO	2	2	MM-MM	9	9	GD-GD	7	7
AP-AP	2	2	NN-NN	9	9	GD-GD	7	7
AQ-AQ	2	2	OO-OO	9	9	GD-GD	7	7
AR-AR	2	2	PP-PP	9	9	GD-GD	7	7
AS-AS	2	2	QQ-QQ	9	9	GD-GD	7	7
AT-AT	2	2	RR-RR	9	9	GD-GD	7	7
AU-AU	2	2	SS-SS	9	9	GD-GD	7	7
AV-AV	2	2	TT-TT	9	9	GD-GD	7	7
AW-AW	2	2	UU-UU	9	9	GD-GD	7	7
AX-AX	2	2	VV-VV	9	9	GD-GD	7	7
AY-AY	2	2	WW-WW	9	9	GD-GD	7	7
AZ-AZ	2	2	XX-XX	9	9	GD-GD	7	7

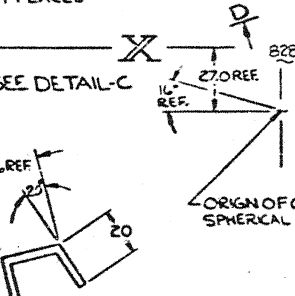
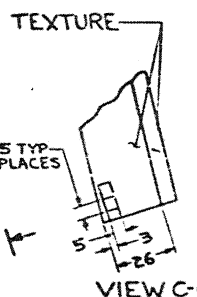
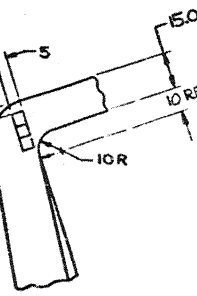
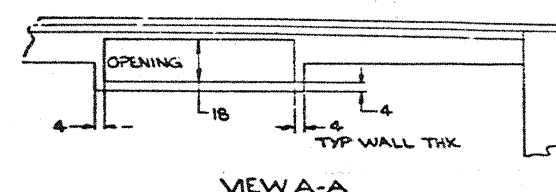
LEGEND B		LEGEND C	
VIEW	SHEET TAKEN	DETAIL	SHEET TAKEN
A-A	1	A	1
B-B	1	B	1
C-C	1	C	1
D-D	1	D	1
E-E	1	E	1
F-F	1	F	1
G-G	1	G	1
H-H	1	H	1
I-I	1	I	1
J-J	2	J	2
K-K	2	K	2
L-L	3	L	3
M-M	3	M	3
N-N	5	N	5
O-O	5	O	5
P-P	10	P	10
Q-Q	10	Q	10



ALL CORED HOLES TO BE CORED FROM BOTTOM

DETAIL-C SCALE: NONE

METRIC DIMENSIONS



- NOTES:
- ALL DIMENSIONS ARE MILLIMETERS AND NOMINAL. UNLESS OTHERWISE SPECIFIED, DRAFT WILL BE CORE SIDE: 1/2°; CAVITY SIDE: 1°
  - NOMINAL WALL THICKNESS: 4 MM (0.156 INCH)
  - CORNERS ARE SHOWN SHARP FOR DRAFTING PURPOSES ONLY. THE FOLLOWING RADII ARE ALLOWABLE FOR TOOLING:
    - A. FILLETS AND ROUNDS OF ALL BOSSES AND RIBS - 0.5R MAX
    - B. GENERAL FILLET RADII: 0.12 MM MIN, 1.5 MM MAX.
    - C. OUTSIDE CORNER RADII: 0.7 MM MIN, 1.2 MM MAX
    - D. EXTERNAL APPEARANCE SURFACES - 0.5/0.8R
    - E. SLIDE PARTING LINE - 1.5R (SEE SHEET #2)
  - MATERIAL TO BE GENERAL ELECTRIC NORYL™ SE-100-7342
  - TEXTURE TO BE AKRON METALS ETCHING™ E-496
  - AXES PER CARTESIAN COORDINATES, ALL DIMENSIONS RELATE TO AXES, NOT TO DATUM PLANES. A DATUM PLANE IN THIS DWG IS DEFINED BY ANY TWO OF THE THREE AXES.
  - FOR INFORMATION RELATED TO PROFILE OF SHELL AND ORIENTATION OF AXES SEE SHEET #12
  - TOLERANCES:
    - GENERAL ± 0.1 MM FIRST 25 MM, PLUS ± 0.02 MM PER ADDITIONAL CM OR FRACTION
    - PARTING LINE ± 0.13 MM FIRST 25 MM, PLUS ± 0.02 MM PER ADDITIONAL CM OR FRACTION
    - PIN MARKS ACCEPTABLE TO 0.0 RAISED; 0.5 MM DEPRESSED
    - SOLID PIN MARK FLASH ACCEPTABLE TO 0.08 MM MAXIMUM
    - FLASH PERMITTED TO 0.08 MM MAXIMUM
  - ALL BOSSES TO BE CORED FROM BOTTOM.
  - THE FOLLOWING BOSSES MUST BE CORED THRU:
    - A. A27, A28, A29, A31 THRU A36, A38, A39, A40, A47, A47, A45, A46, A47, A50 THRU A53
    - B. B1, B2, E, B3
    - C. C1 THRU C16
    - D. D1 THRU D11
    - E. F1 THRU F12
  - THE FOLLOWING BOSSES MAY NOT BE CORED THRU:
    - A. A1 THRU A21 & A53
    - B. ANY REMAINING BOSSES MAYOR MAY NOT BE CORED THRU.

REV	DESCRIPTION	DATE	BY	CHKD
1	ISSUED FOR MANUFACTURE	11/23/74	W. J. ...	...
2	...	...	...	...

REV	DESCRIPTION	DATE	BY	CHKD
1	ISSUED FOR MANUFACTURE	11/23/74	W. J. ...	...
2	...	...	...	...

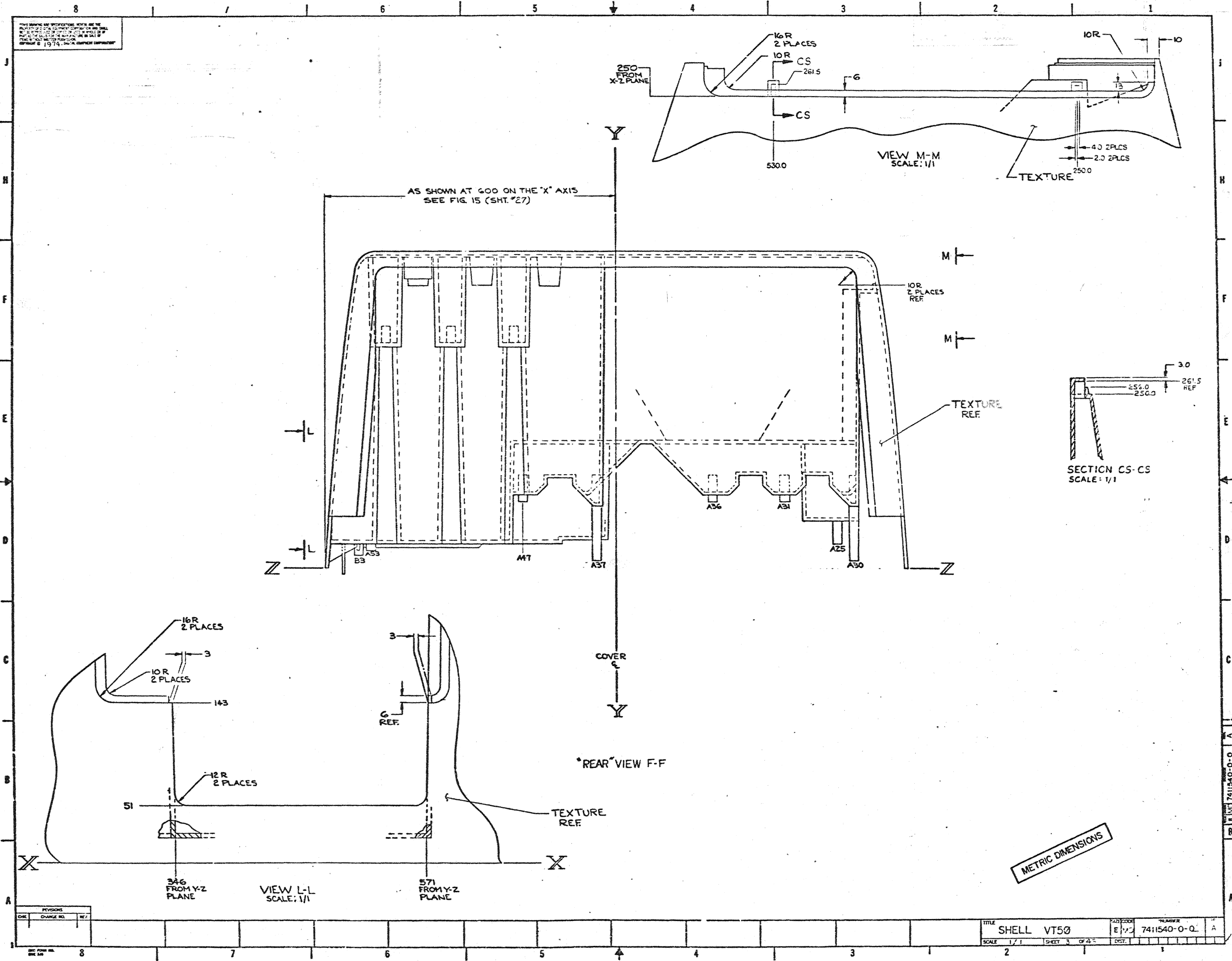
REV	DESCRIPTION	DATE	BY	CHKD
1	ISSUED FOR MANUFACTURE	11/23/74	W. J. ...	...
2	...	...	...	...

7411540-0-0 SHELL VT50





THIS DRAWING AND SPECIFICATIONS, WITH ALL THE RIGHTS THEREOF, ARE THE PROPERTY OF THE UNITED STATES GOVERNMENT AND ARE LOANED TO YOU BY THE NATIONAL BUREAU OF STANDARDS. IT IS TO BE USED FOR THE PURPOSES SPECIFIED IN THE ORDER AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE NATIONAL BUREAU OF STANDARDS.

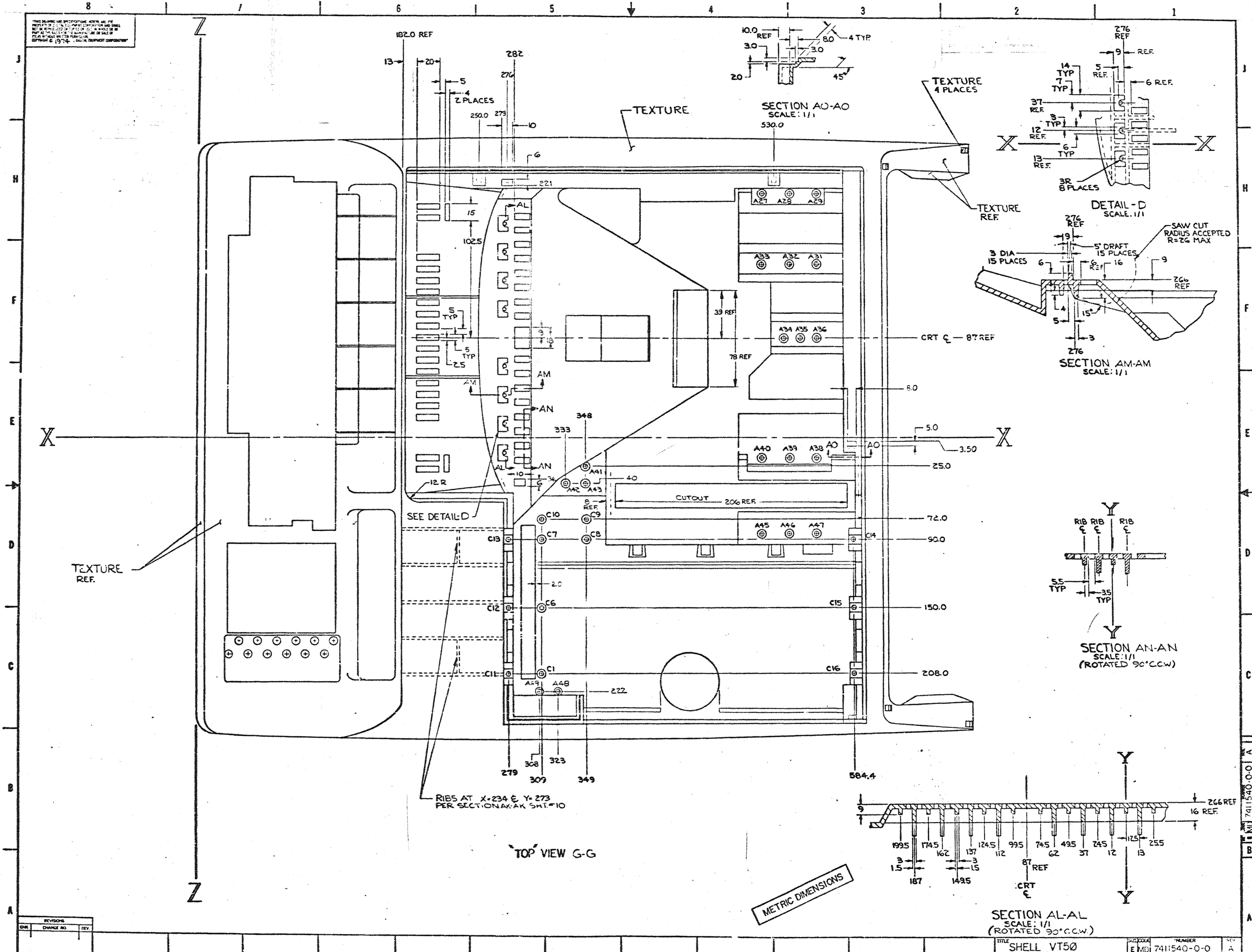


REVISIONS		
NO.	CHANGE NO.	REV.

TITLE	SHELL VT50	AD CODE	E 1/2	PLANS NO.	7411540-0-Q	11	A
SCALE	1/1	SHEET	3	OF 4			

7411540-0-Q

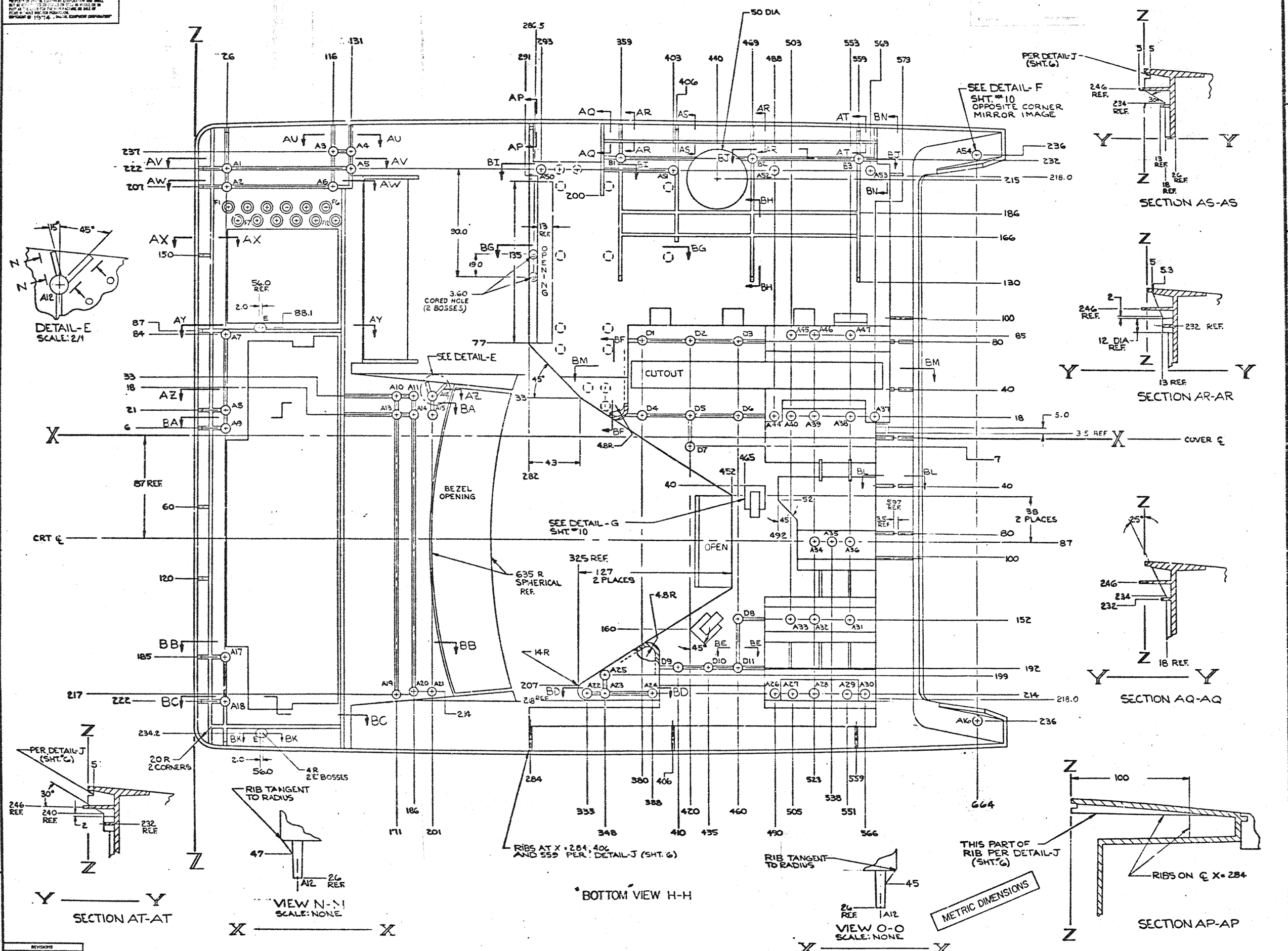
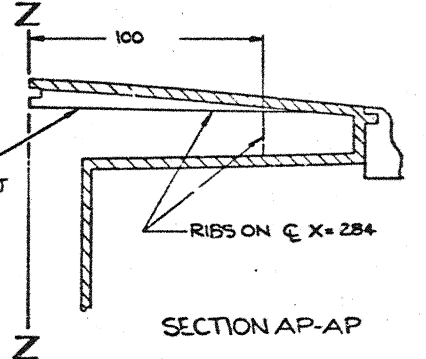
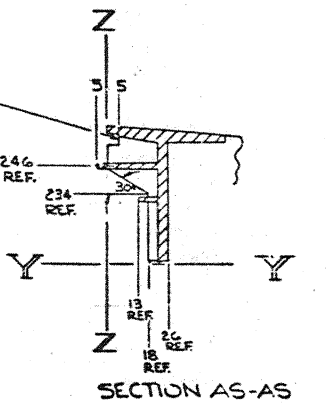
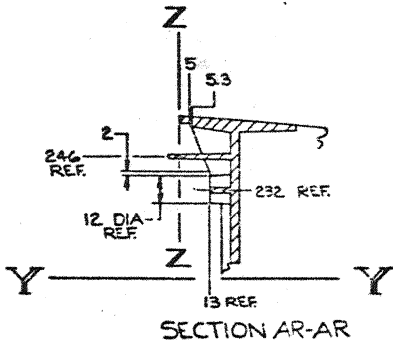
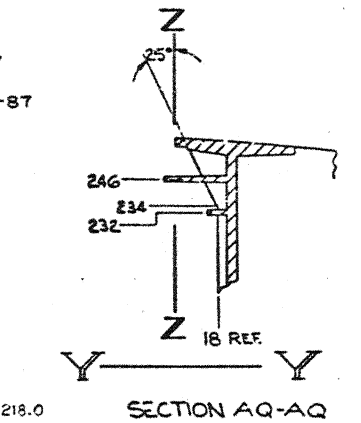
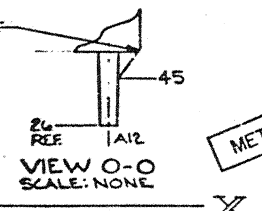
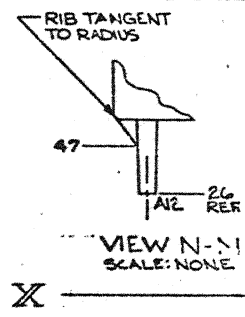
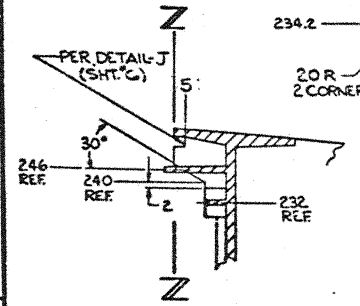
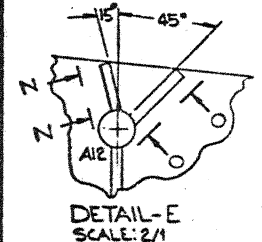
THIS DRAWING AND SPECIFICATIONS HEREON ARE THE PROPERTY OF THE U.S. GOVERNMENT AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE U.S. GOVERNMENT PRINTING OFFICE: 1974.



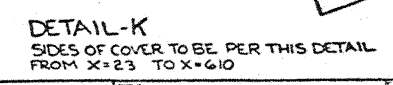
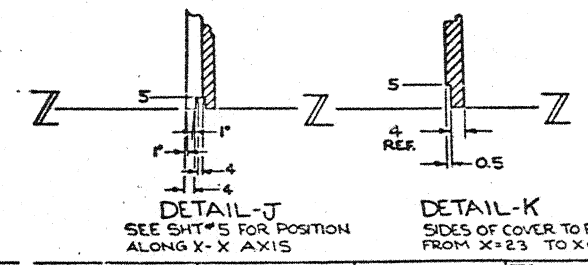
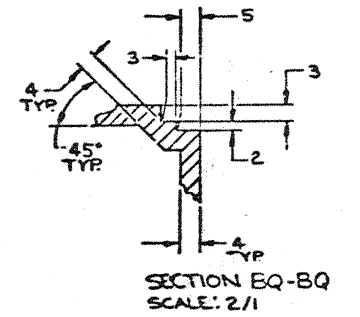
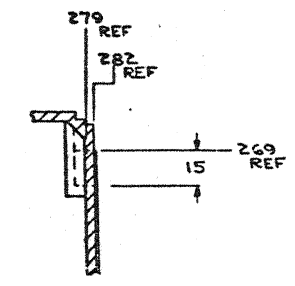
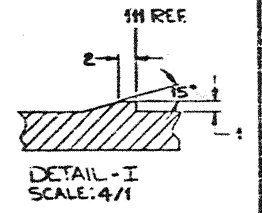
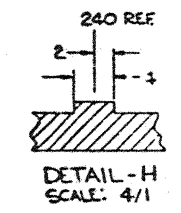
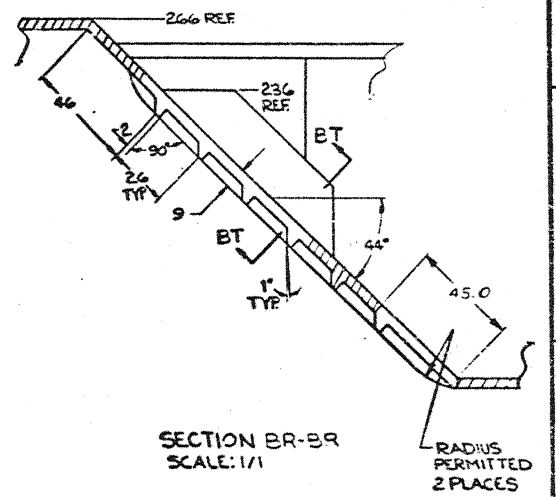
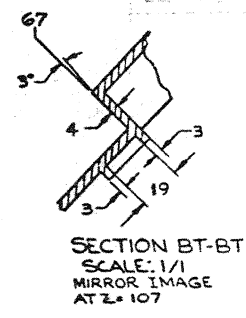
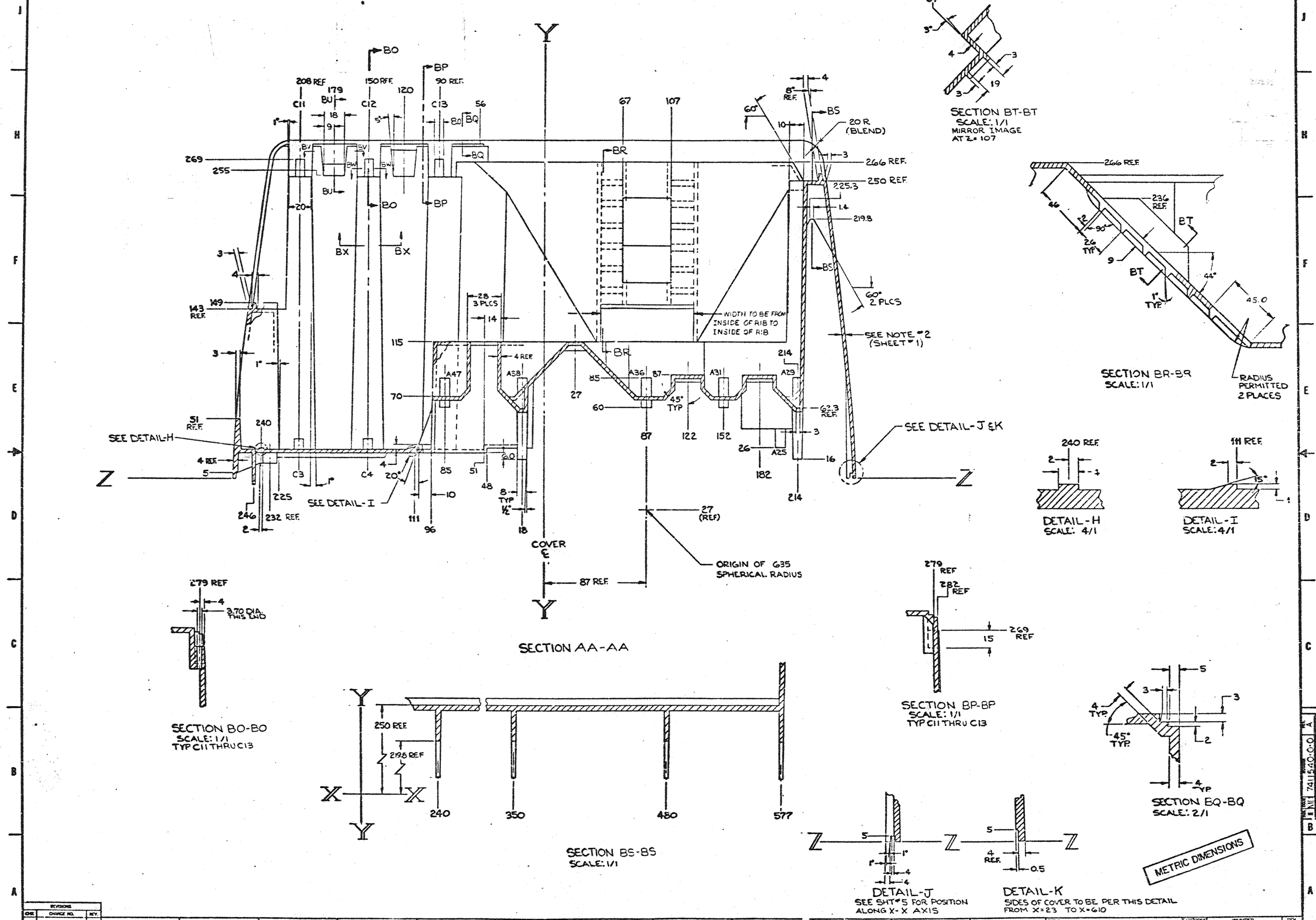
REV	CHG	NO	REV

TITLE SHELL VT50  
SCALE 1/1  
SHEET 4 OF 4.5  
NUMBER 7411540-0-0  
REV A

THIS DRAWING IS UNCLASSIFIED UNLESS THE REVISIONS ARE SHOWN IN THE REVISIONS SECTION. THIS DRAWING IS UNCLASSIFIED UNLESS THE REVISIONS ARE SHOWN IN THE REVISIONS SECTION.



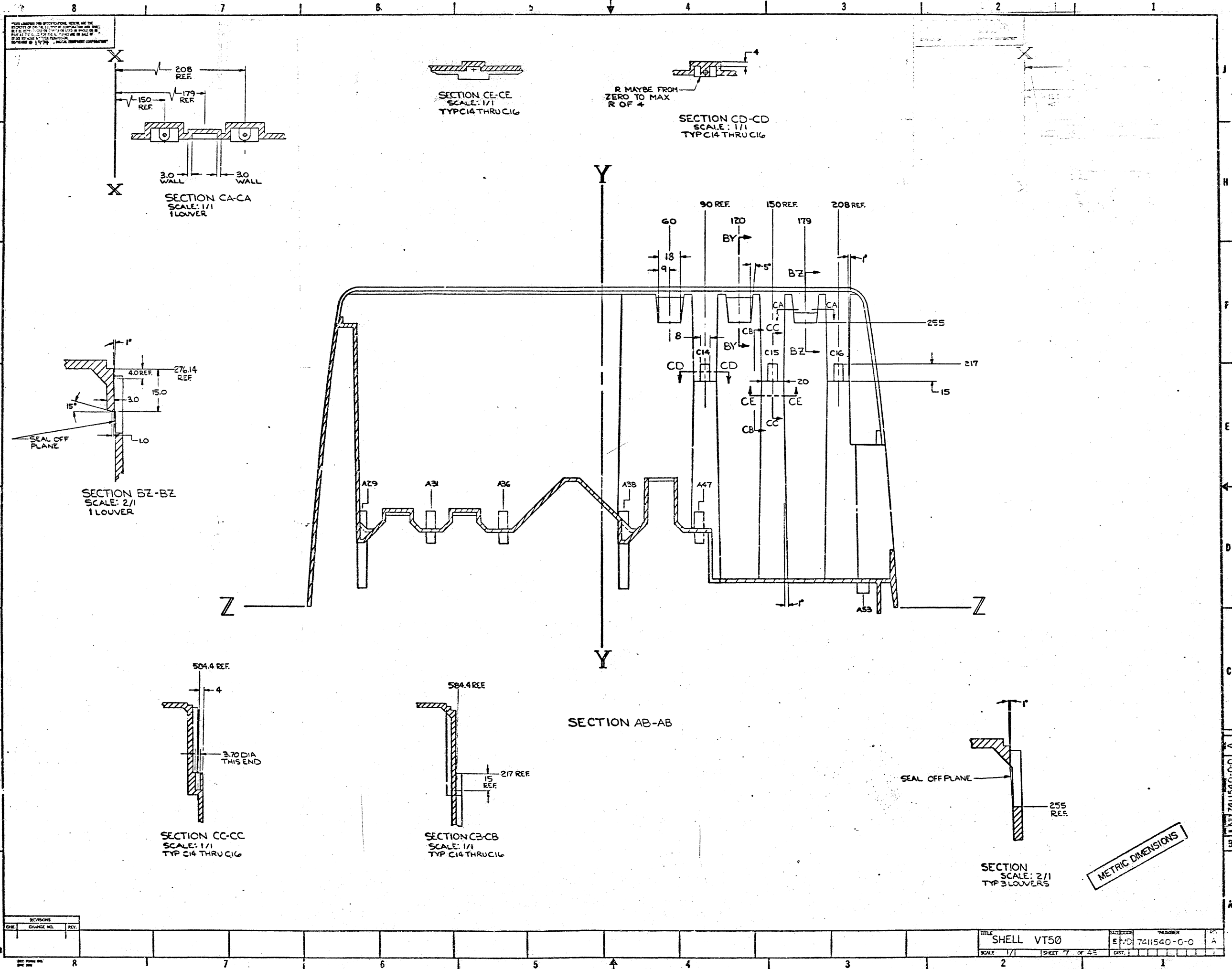
PLEASE REFER TO THE SPECIFICATIONS AND THE PROJECT'S DESIGN AND CONSTRUCTION MANUAL FOR THE SHELL'S DESIGN AND CONSTRUCTION. THE SHELL'S DESIGN AND CONSTRUCTION MANUAL IS AVAILABLE FROM THE PROJECT'S DESIGN AND CONSTRUCTION MANUAL. SHELL'S DESIGN AND CONSTRUCTION MANUAL IS AVAILABLE FROM THE PROJECT'S DESIGN AND CONSTRUCTION MANUAL.



METRIC DIMENSIONS

REV	DATE	BY	CHKD

TITLE	SHELL VT50	NUMBER	7411540-C-C
SCALE	1/1	SHEET	6 OF 25
DATE		DIST.	



THIS DRAWING IS THE PROPERTY OF THE COMPANY AND SHALL BE KEPT IN CONFIDENTIALITY. IT IS TO BE USED ONLY FOR THE PROJECT AND SHALL NOT BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE COMPANY.

REV.	CHANGE NO.	DATE

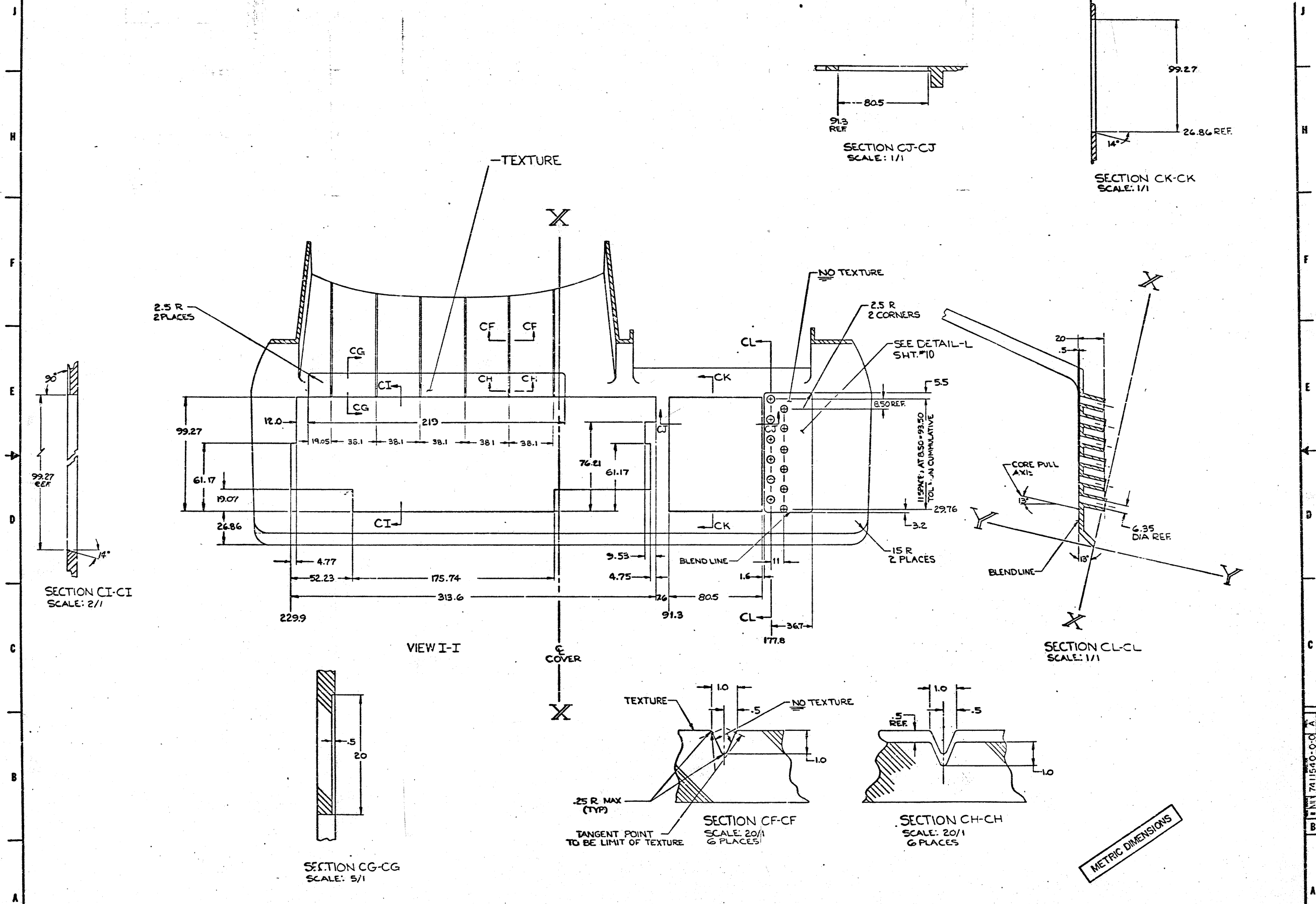
TITLE	SHELL VT50	SHEET NO.	7	TOTAL SHEETS	45
SCALE	1/1	DATE			
DESIGNER		CHECKER			

METRIC DIMENSIONS

7411540-C-0



THIS DRAWING AND INFORMATION HEREON ARE THE PROPERTY OF THE U.S. GOVERNMENT AND ARE TO BE REPRODUCED AND TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE U.S. GOVERNMENT PRINTING OFFICE: 1975. "METRIC DIMENSIONS"



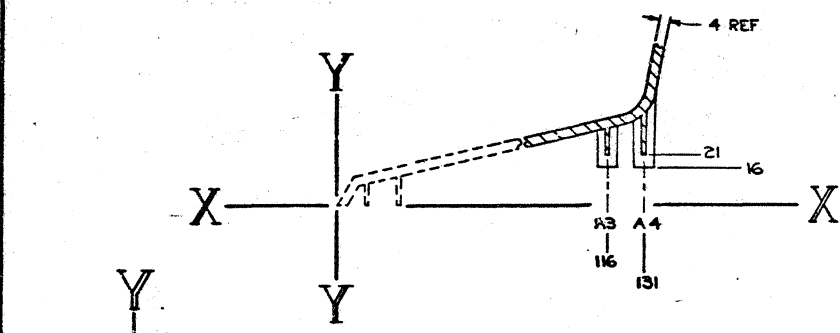
REVISIONS		
NO.	CHANGE NO.	REV.

TITLE	SHELL VT50	SIZE/CODE	E.T.O.	NUMBER	7411540-0-0	REV.	A
SCALE	1/1	SHEET	6	OF	4-5	DIST.	

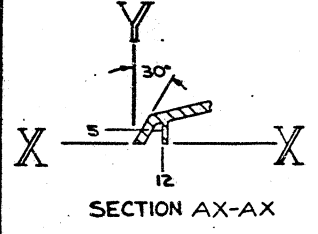
METRIC DIMENSIONS

7411540-0-0 A

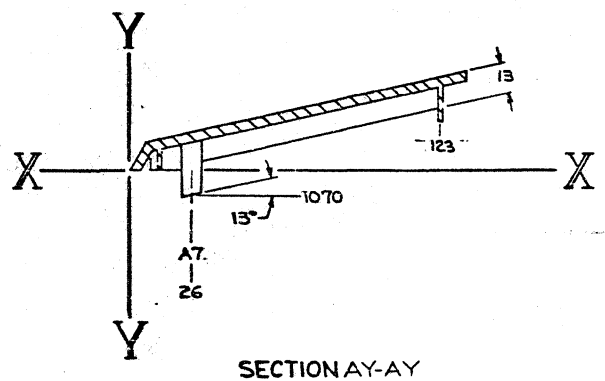
THIS DRAWING AND SPECIFIC VIEWS HEREON ARE THE PROPERTY OF THE EQUIPMENT CORPORATION AND SHALL BE RETURNED TO THE COMPANY IF NOT REPRODUCED IN FULL BY THE ORIGINAL DRAWING POSITION. COPYRIGHT © 1974. DATA EQUIPMENT CORPORATION



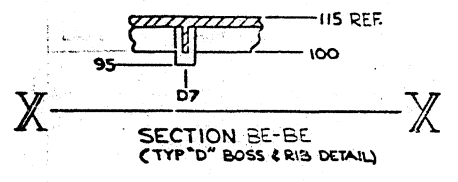
SECTION AU-AU



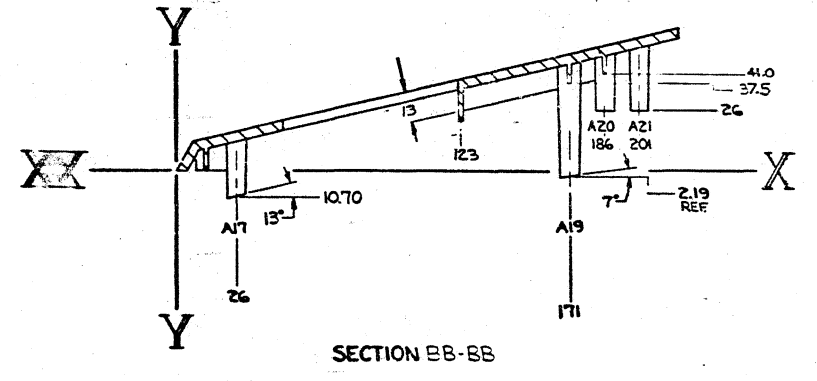
SECTION AX-AX



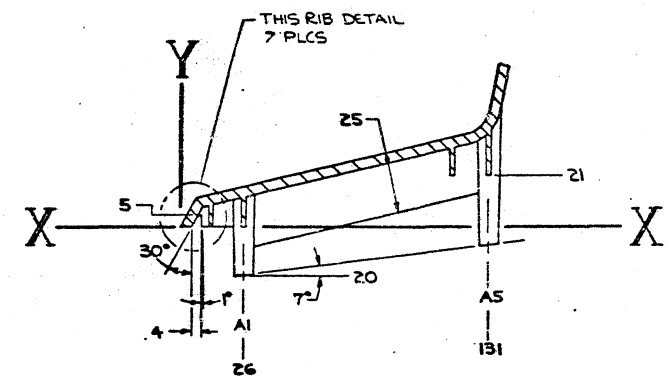
SECTION AY-AY



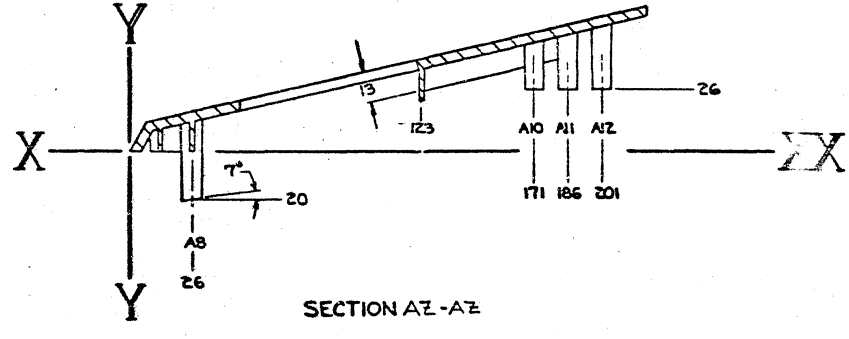
SECTION BE-BE  
(TYP "D" BOSS & RIB DETAIL)



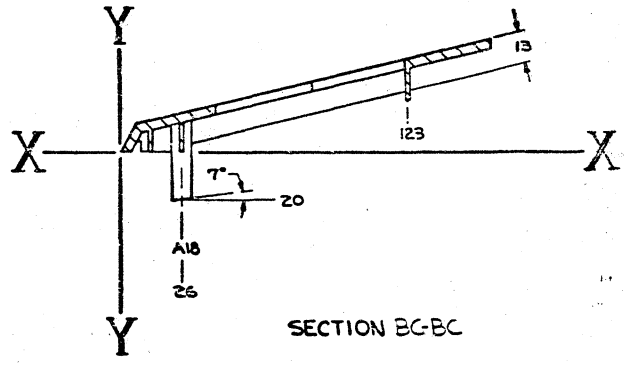
SECTION BB-BB



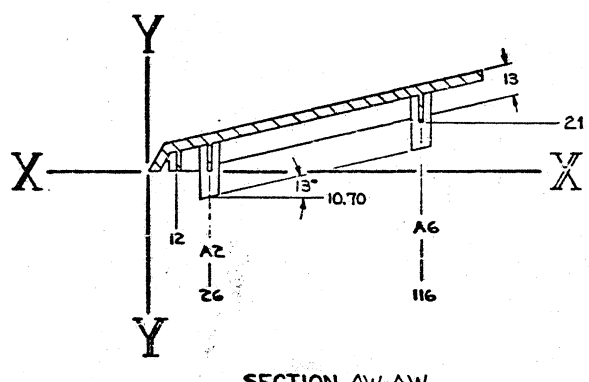
SECTION AV-AV



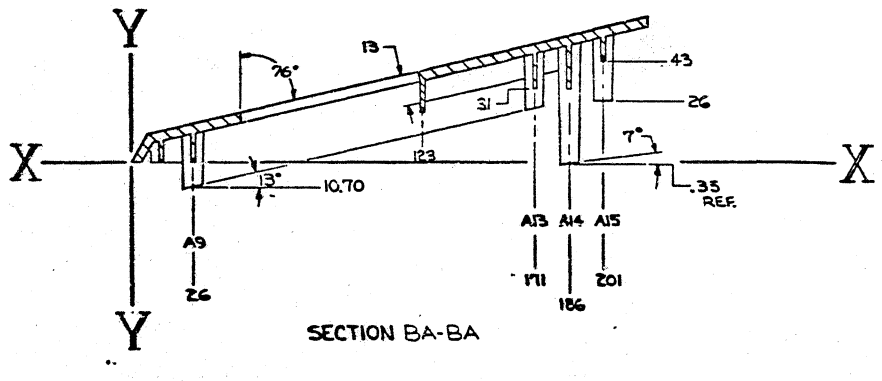
SECTION AZ-AZ



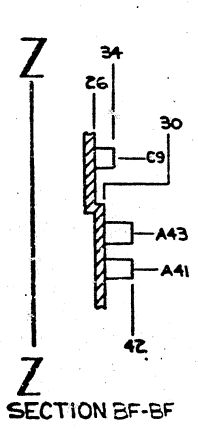
SECTION BC-BC



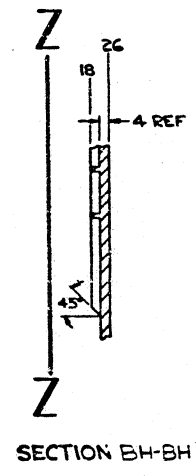
SECTION AW-AW



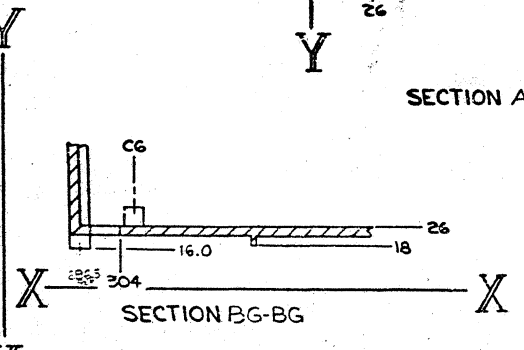
SECTION BA-BA



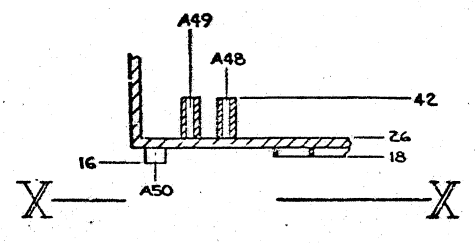
SECTION BF-BF



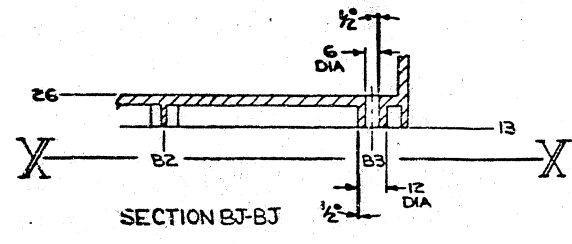
SECTION BH-BH



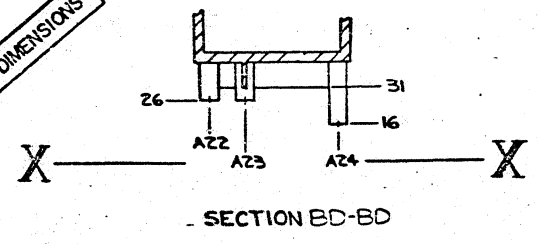
SECTION BG-BG



SECTION BI-BI



SECTION BJ-BJ



SECTION BD-BD

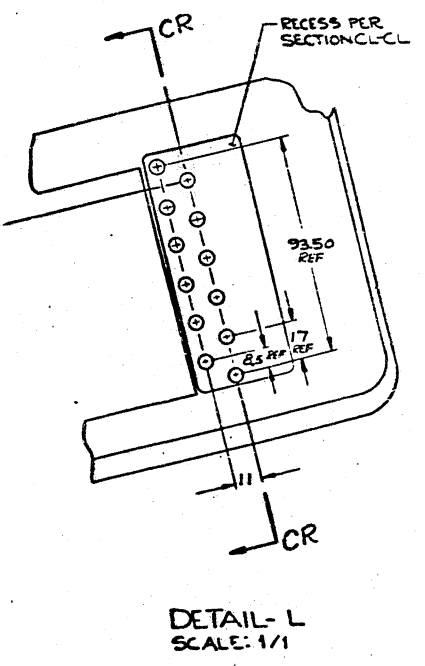
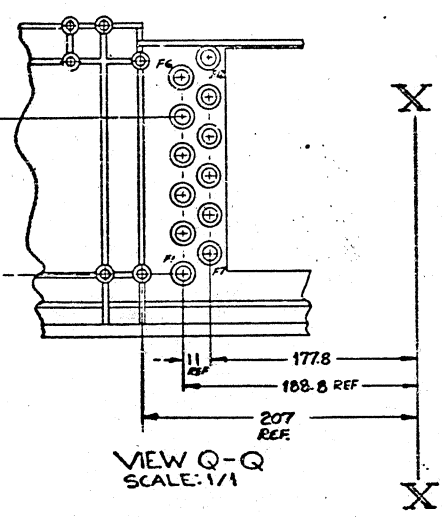
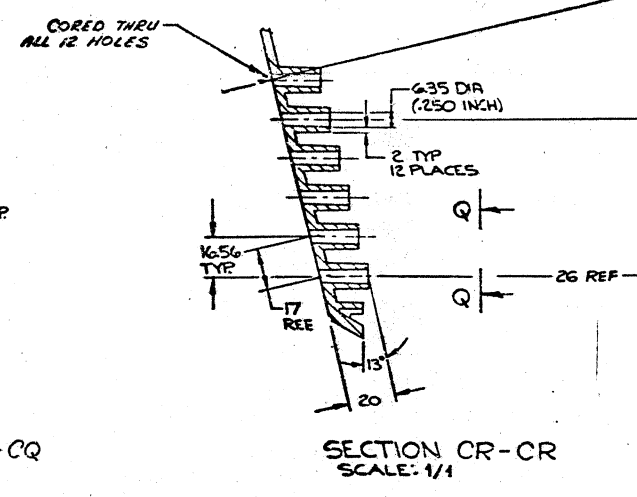
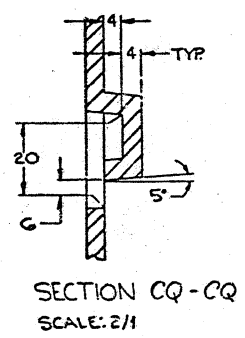
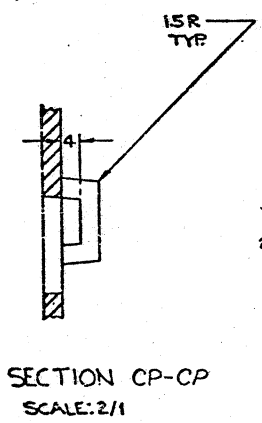
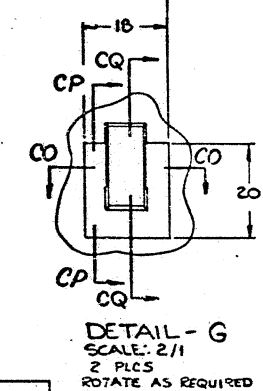
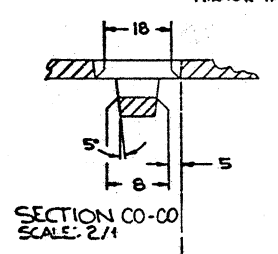
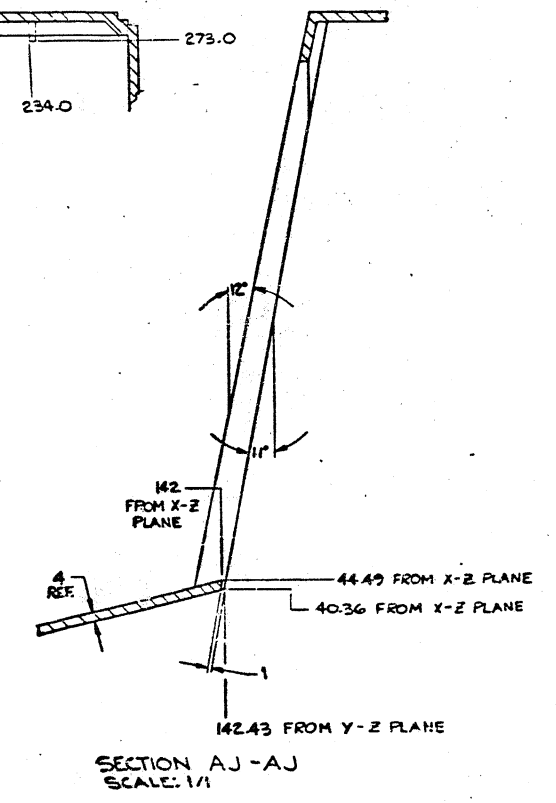
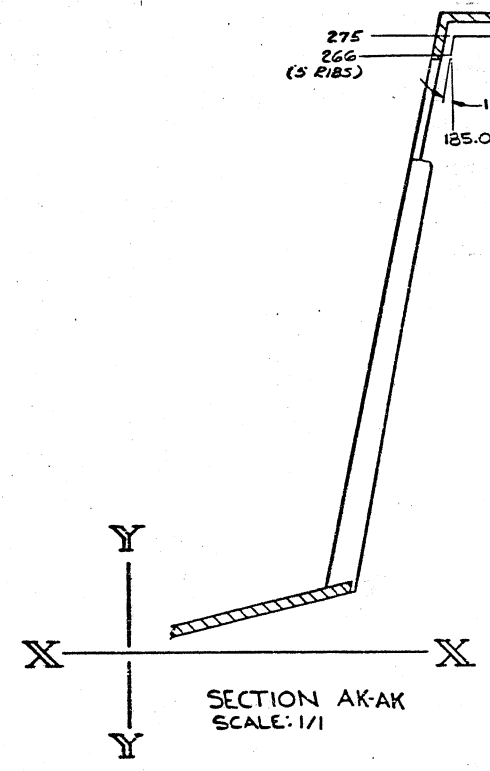
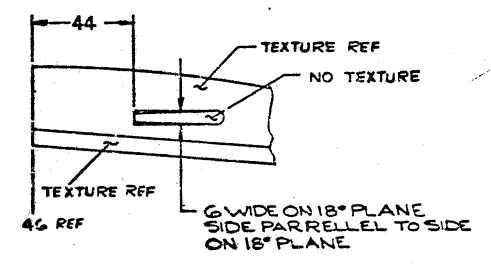
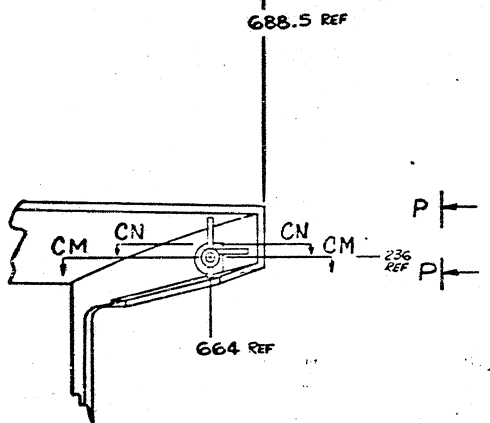
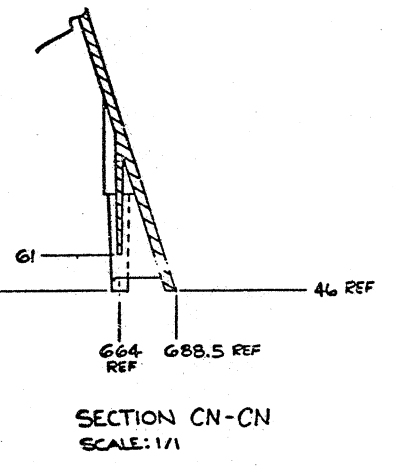
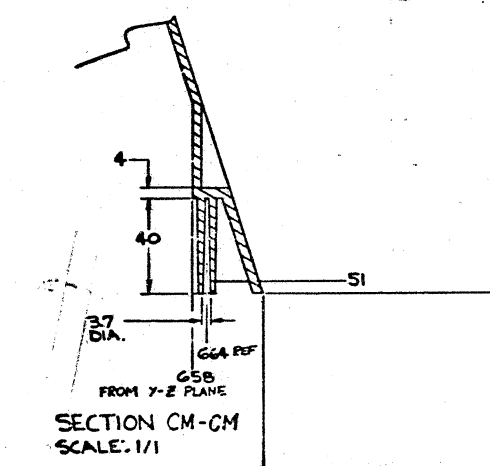
METRIC DIMENSIONS

REV.	CHANGE NO.	REV.

TITLE	SHELL VT50	NUMBER	E MC 7411540-0-0
SCALE	1/1	SHEET	9 OF 45

B 13 11 7411540-0-0 A

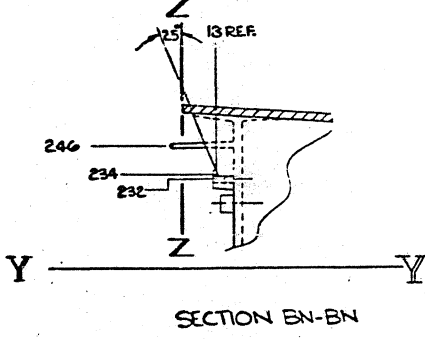
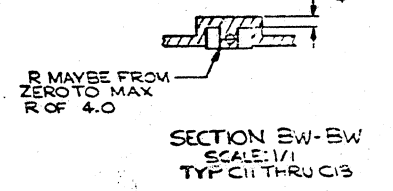
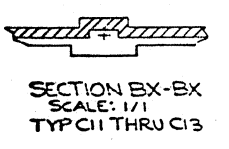
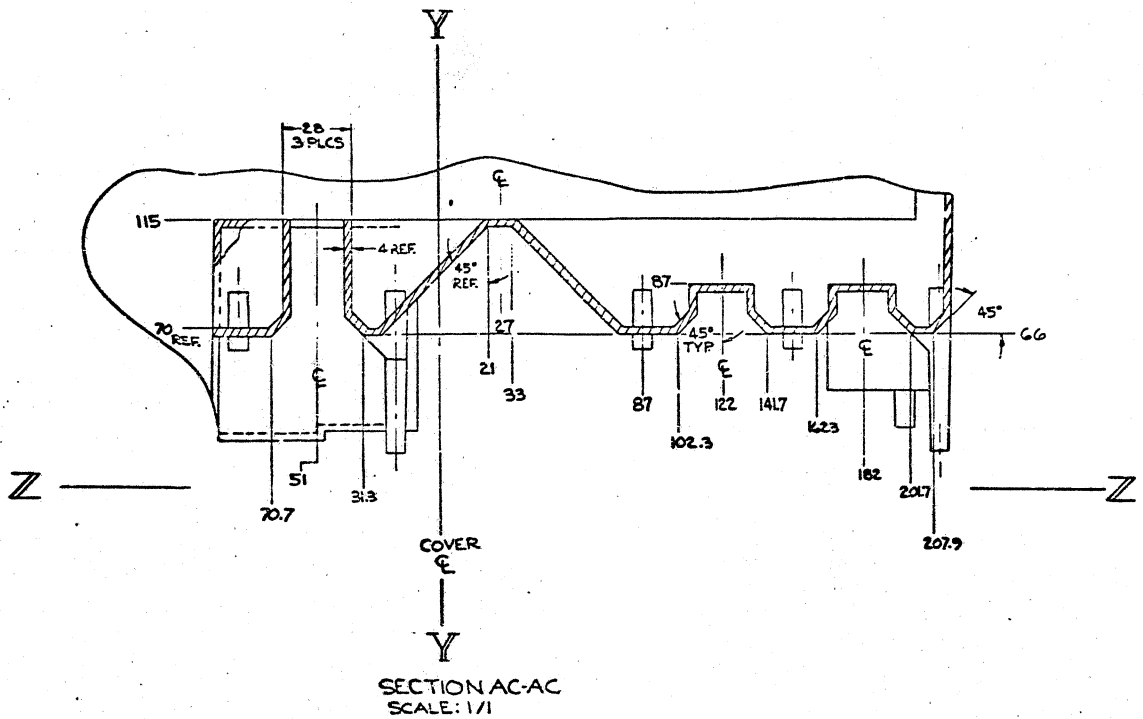
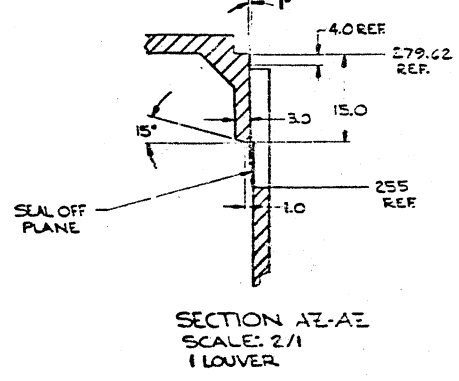
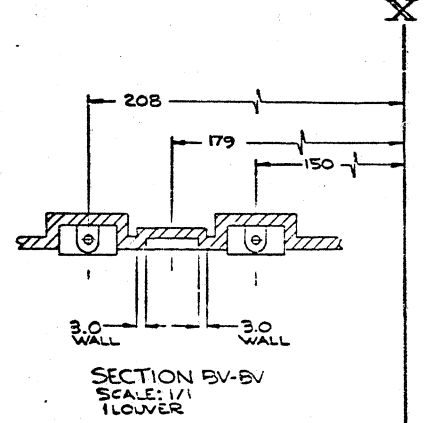
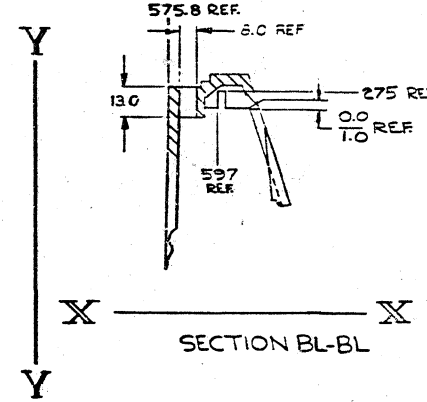
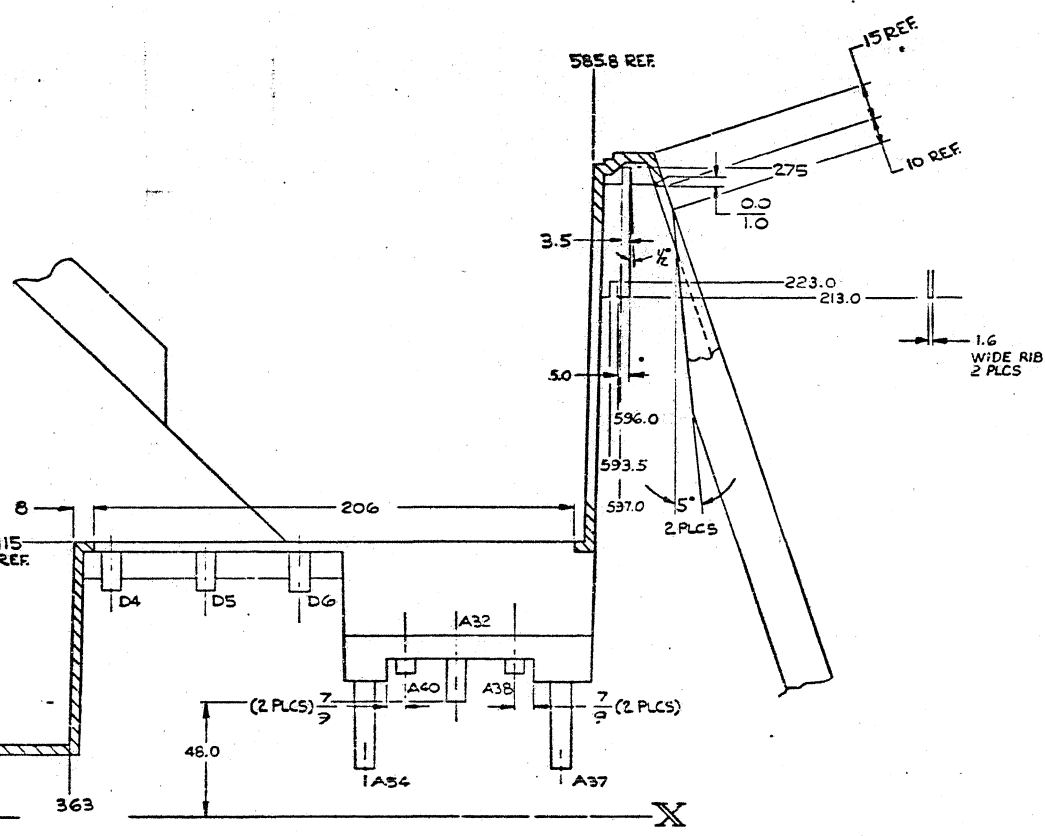
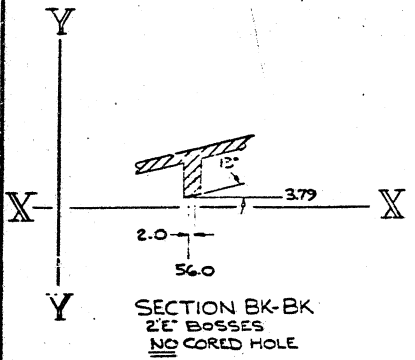
THIS DRAWING AND SPECIFICATIONS HEREON ARE THE PROPERTY OF SHELCO INC. AND ARE TO BE KEPT IN CONFIDENCE. IT IS TO BE USED ONLY FOR THE MANUFACTURE OR SALE OF THE EQUIPMENT SPECIFIED HEREON. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING OR SPECIFICATIONS WITHOUT THE WRITTEN PERMISSION OF SHELCO INC. IS PROHIBITED. SHELCO INC. 1974



METRIC DIMENSIONS

REVISIONS		
DATE	CHANGE NO.	REV.

THIS DRAWING AND SPECIFICATIONS SHALL BE THE PROPERTY OF BENTON & BOWLES, INC. AND SHALL BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF BENTON & BOWLES, INC. COPYRIGHT © 1971 BENTON & BOWLES, INC.

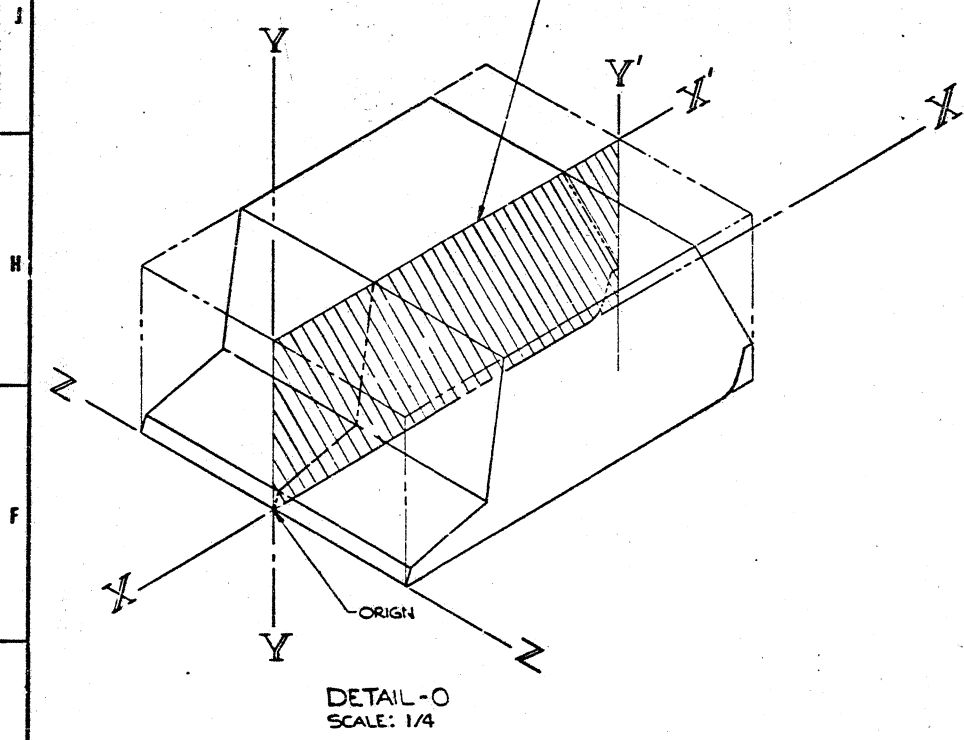


METRIC DIMENSIONS

REV	CHANGE NO.	REV

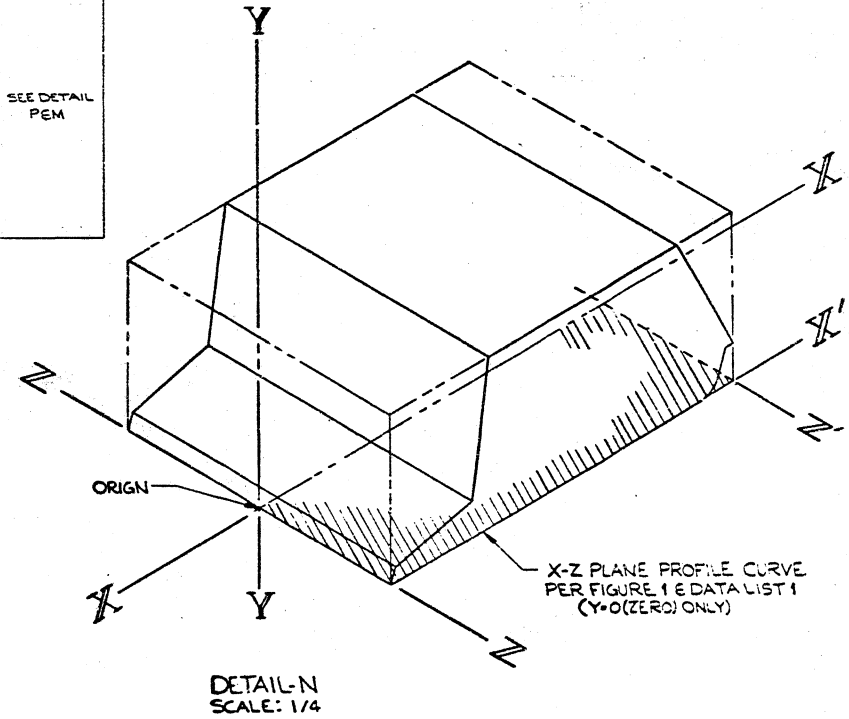
THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF SDC, INC. THEIR CREATION AND DEVELOPMENT ARE HEREBY DECLARED TO BE THE PROPERTY OF SDC, INC. AND WILL REMAIN THE PROPERTY OF SDC, INC. IN WHOLE OR IN PART AT ALL TIMES. THE MANUFACTURE OR SALE OF THIS DRAWING OR SPECIFICATIONS HEREIN WITHOUT THE WRITTEN PERMISSION OF SDC, INC. IS PROHIBITED. © 1975 SDC EQUIPMENT CORPORATION

X-Y PLANE PROFILE CURVE PER FIGURE 2 & DATA LIST 2 (FOR ANY Z DIM)

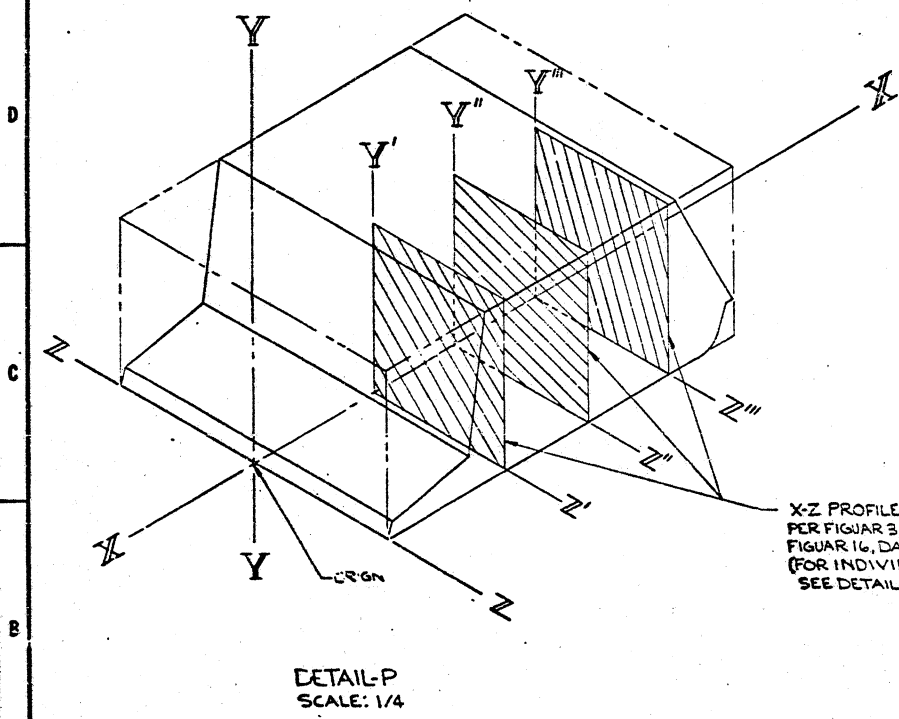


LEGEND D  
SHELL PROFILE DIMENSIONAL INFORMATION

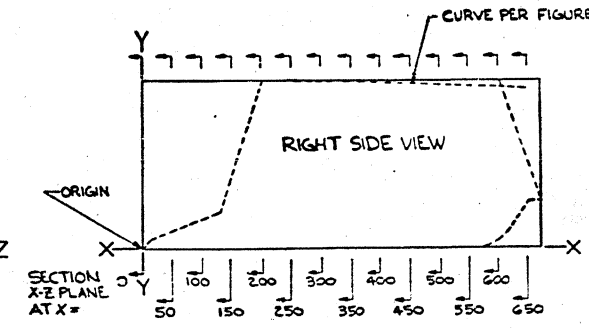
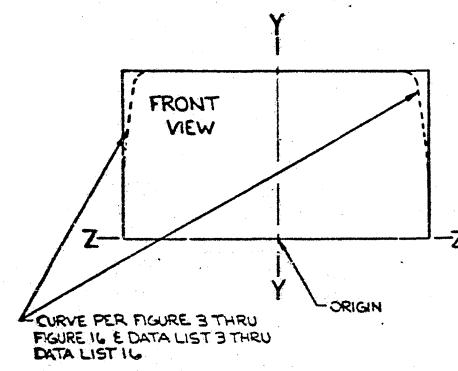
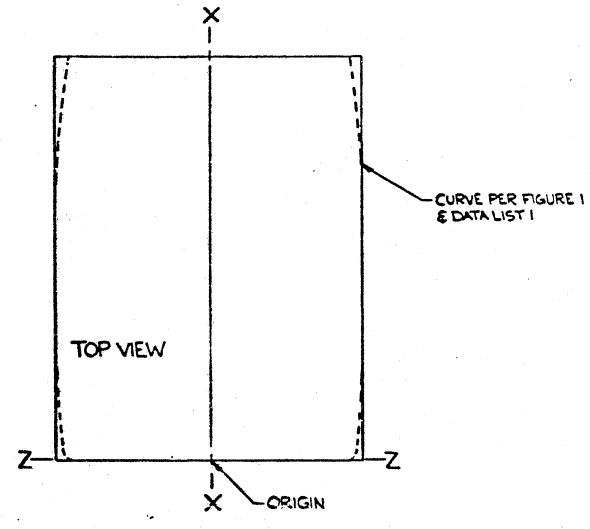
SECTION PLANE	FIGURE		DATA LIST		REMARKS
	NO	SHEET	NO	SHEET	
X-Z PLANE AT Y=0	1	13	1	29	SEE DETAIL-N
X-Y PLANE ANY Z DIM	2	14	2	30	SEE DETAIL-O
Y-Z PLANE AT X=:					SEE DETAIL-PEN
0	3	15	3	31	
50	4	16	4	32	
100	5	17	5	33	
150	6	18	6	34	
200	7	19	7	35	
250	8	20	8	36	
300	9	21	9	37	
350	10	22	10	38	
400	11	23	11	39	
450	12	24	12	40	
500	13	25	13	41	
550	14	26	14	42	
600	15	27	15	43	
650	16	28	16	44	



- NOTES:
- 1 SHELL PROFILE IS SYMMETRICAL ABOUT THE X-Y PLANE.
  - 2 PROFILE PER FIGURE 2 & DATA LIST 2 IS CONSTANT ENTIRE WIDTH OF SHELL (-Z TO +Z).
  - 3 INFORMATION CONTAINED IN FIGURE 1-16 & DATA LIST 1-16 DEFINE A SHAPE NOT ENTIRELY USED BY THE SHELL. DISREGARD ALL INFORMATION NOT WITHIN THE LIMITS OF THE SHELL AS GIVEN IN SHEET 1-11.
  - 4 COORDINATES IN DATA LIST 1 THRU 16 ARE FINISH PART SIZE MAT'L SHRINKAGE IS NOT INCLUDED.
  - 5 CURVES IN FIGURES 1 THRU 16 ARE FOR TEMPLATE PURPOSES & REF ONLY. SCALE OF 1:0.006 TO 1 INCLUDES .6% MAT'L SHRINKAGE. A 100% PHOTO REPRODUCTION OF CURVE ORIGINAL IS REQ'D.
  - 6 AXES PER CASTESIAN COORDINATES, ALL DIMENSION RELATE TO AXES, NOT TO DATUM PLANES. A DATUM PLANE IN THIS DWG IS DEFINED BY ANY TWO OF THREE AXES.



X-Z PROFILE CURVES PER FIGURE 3, DATA LIST 3, THRU FIGURE 16, DATA LIST 16 (FOR INDIVIDUAL X DIMENSION SEE DETAIL-M)



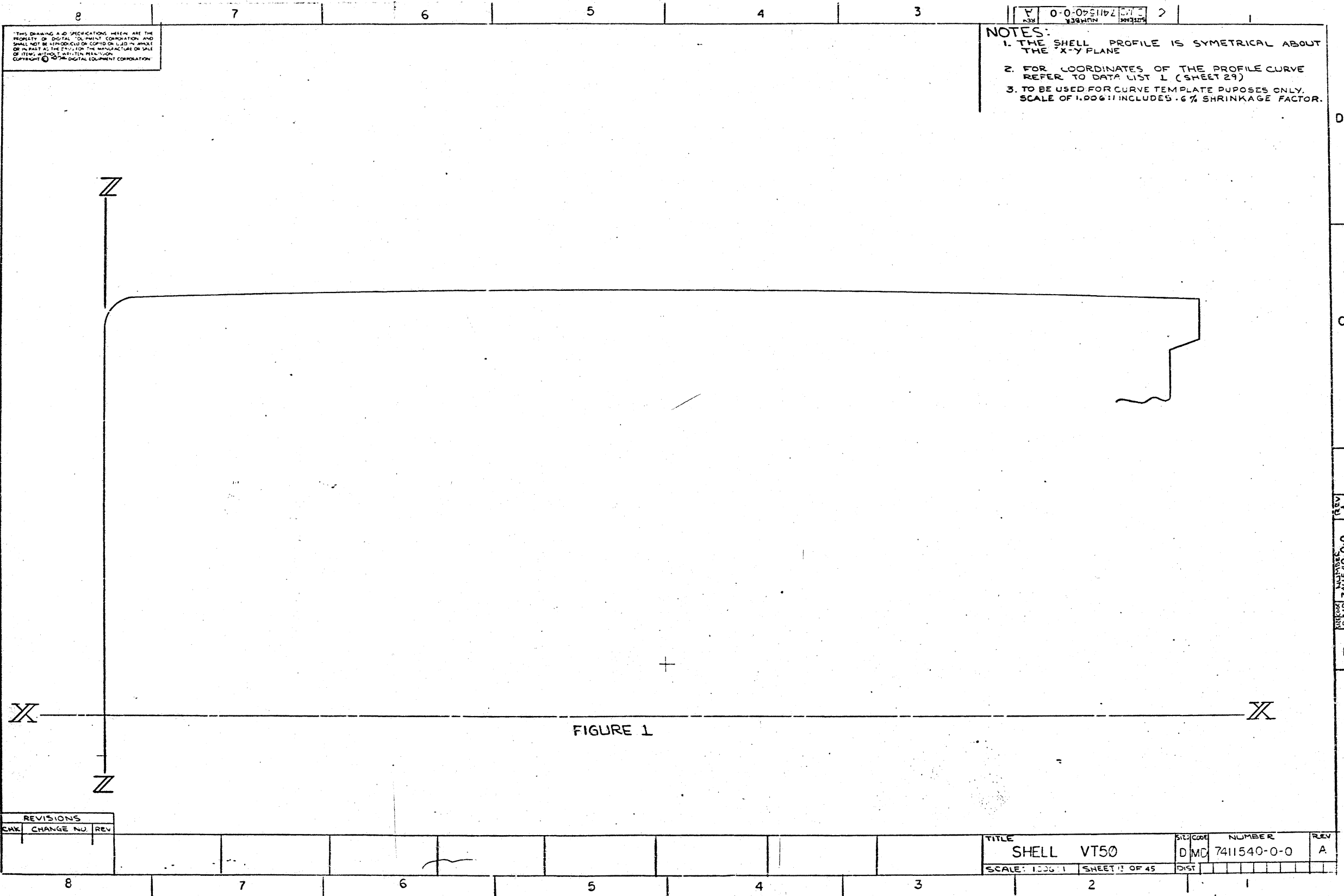
DETAIL-M  
ORIENTATION OF AXIS-VT50 SHELL  
SCALE: 1/4

METRIC DIMENSIONS

REVISIONS

CHK	CHANGE NO	REV.





THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT THE WRITTEN PERMISSION OF DIGITAL EQUIPMENT CORPORATION.

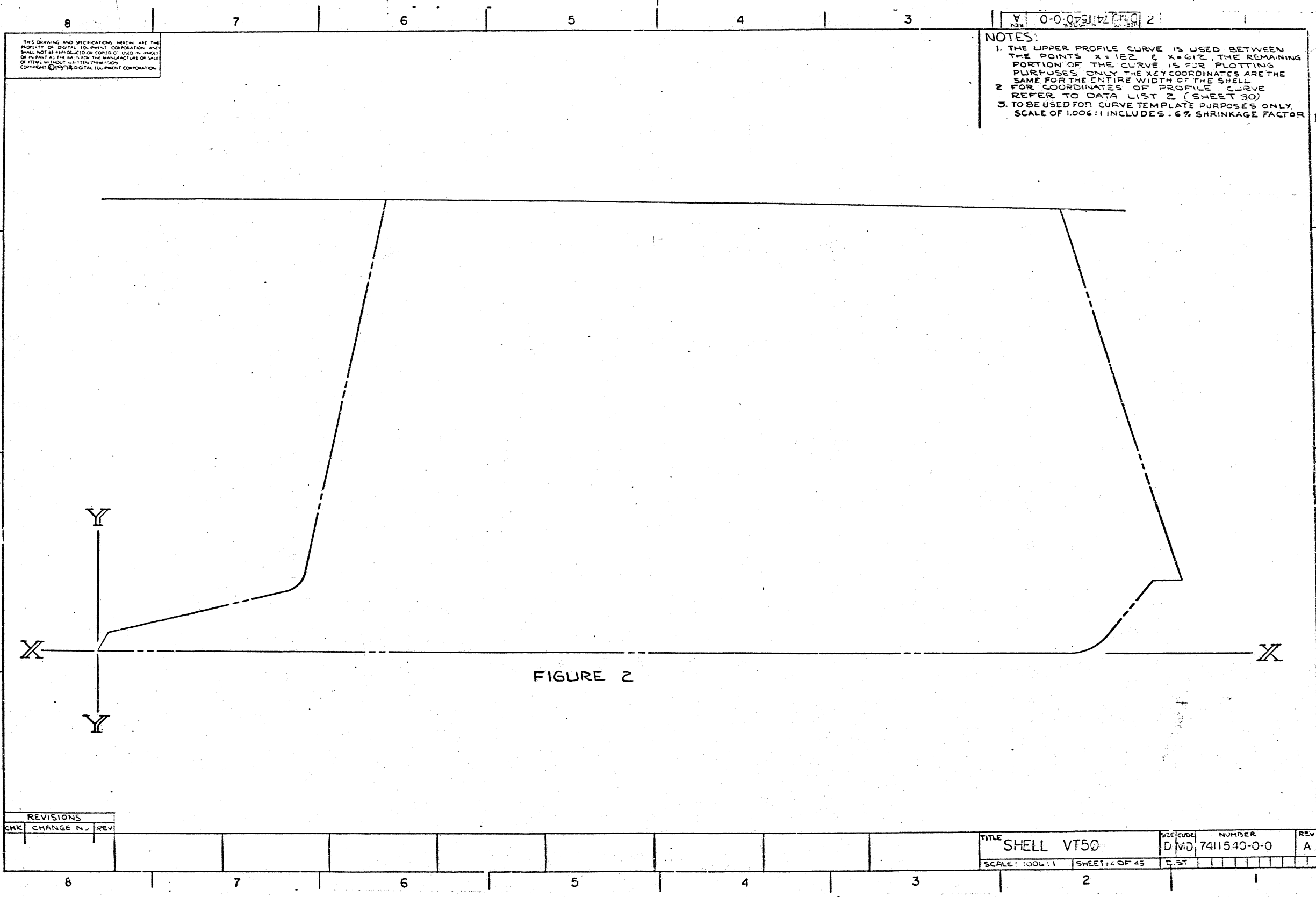
- NOTES:
1. THE SHELL PROFILE IS SYMETRICAL ABOUT THE X-Y PLANE
  2. FOR COORDINATES OF THE PROFILE CURVE REFER TO DATA LIST 1 (SHEET 29)
  3. TO BE USED FOR CURVE TEMPLATE PUPOSES ONLY. SCALE OF 1.006:1 INCLUDES .6% SHRINKAGE FACTOR.

FIGURE 1

REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SIT. CODE	NUMBER	REV
SHELL VT50	D MC	7411540-0-0	A
SCALE: 1.006:1	SHEET 1 OF 45	DIST	

DMC 7411540-0-0  
 SHEET 1 OF 45  
 REV A



THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1977 DIGITAL EQUIPMENT CORPORATION.

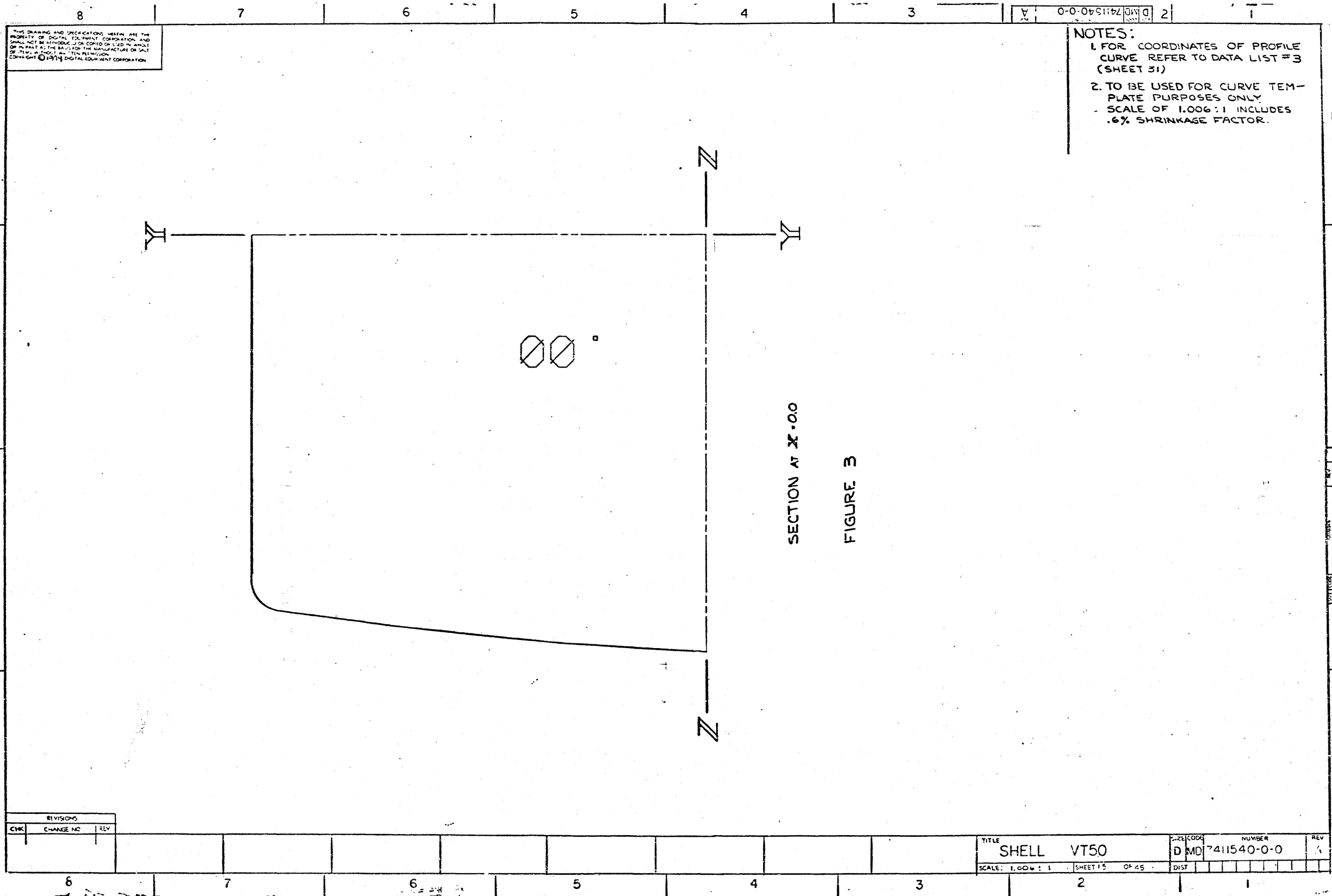
REV. 0-0-075112 2

- NOTES:
1. THE UPPER PROFILE CURVE IS USED BETWEEN THE POINTS X = 182 & X = 612. THE REMAINING PORTION OF THE CURVE IS FOR PLOTTING PURPOSES ONLY. THE KEY COORDINATES ARE THE SAME FOR THE ENTIRE WIDTH OF THE SHELL.
  2. FOR COORDINATES OF PROFILE CURVE REFER TO DATA LIST 2 (SHEET 30).
  3. TO BE USED FOR CURVE TEMPLATE PURPOSES ONLY. SCALE OF 1.006:1 INCLUDES .6% SHRINKAGE FACTOR.

FIGURE 2

REVISIONS		
CHK	CHANGE NO.	REV

TITLE	NUMBER	REV
SHELL VT50	DMD 7411540-0-0	A
SCALE: 1006:1	SHEET 1 OF 43	CST



THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION, AND SHALL NOT BE REPRODUCED, COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS UNLESS IN WRITTEN PERMISSION. © 1971 DIGITAL EQUIPMENT CORPORATION.

- NOTES:
1. FOR COORDINATES OF PROFILE CURVE REFER TO DATA LIST #3 (SHEET 31)
  2. TO BE USED FOR CURVE TEMPLATE PURPOSES ONLY. SCALE OF 1.006:1 INCLUDES .6% SHRINKAGE FACTOR.

SECTION AT X=00  
FIGURE 3

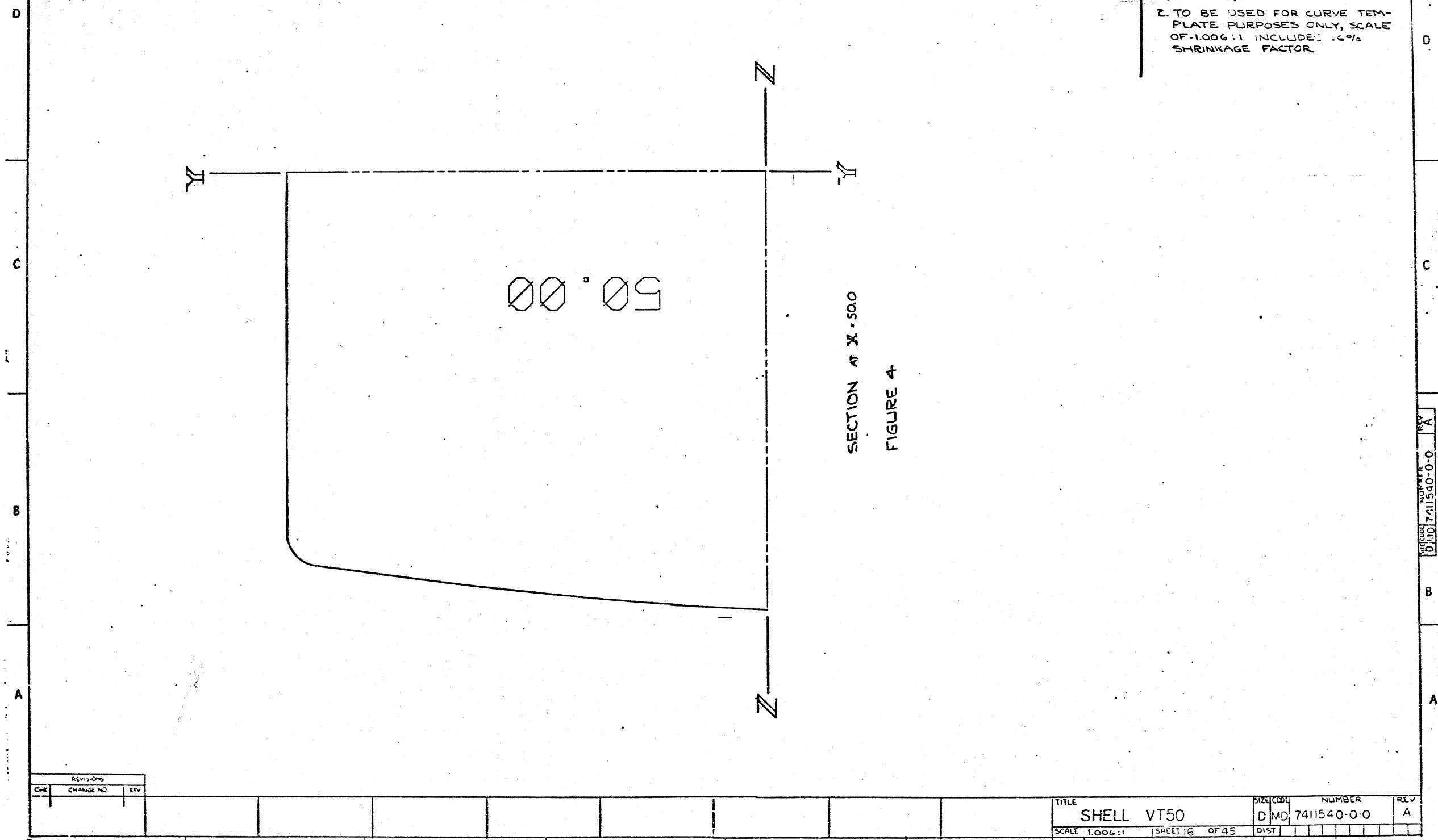
REVISIONS		
CHK	CHANGE NO	REV

TITLE	SHELL VT50	DRAWING CODE	D MD 7411540-0-0	NUMBER		REV	A
SCALE:	1.006:1	SHEET	15	OF	25	DIST	

D MD 7411540-0-0

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED, COPIED, REPRODUCED, OR IN ANY MANNER FOR THE MANUFACTURE OF THIS OR OTHER PRODUCTS WITHOUT THE WRITTEN PERMISSION OF DIGITAL EQUIPMENT CORPORATION.

NOTES:  
 1. FOR COORDINATES OF PROFILE CURVE REFER TO DATA LIST #4 (SHEET 32)  
 2. TO BE USED FOR CURVE TEMPLATE PURPOSES ONLY, SCALE OF 1:006.1 INCLUDES .6% SHRINKAGE FACTOR

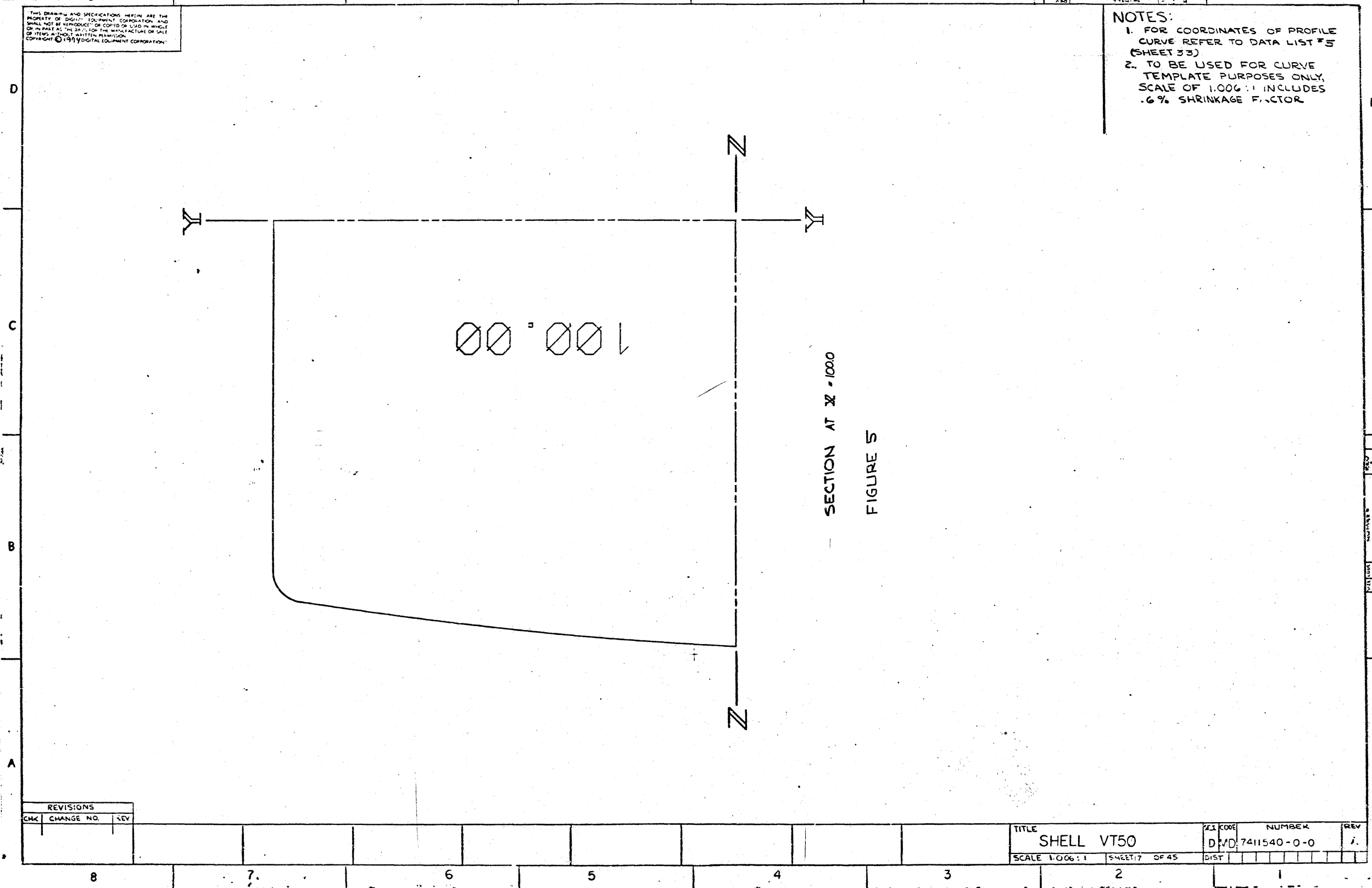


REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE (CODE)	NUMBER	REV
SHELL VT50	DMD	7411540-0-0	A
SCALE 1:006.1	SHEET 16	OF 45	DIST

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1971 DIGITAL EQUIPMENT CORPORATION.

NOTES:  
 1. FOR COORDINATES OF PROFILE CURVE REFER TO DATA LIST #5 (SHEET 33)  
 2. TO BE USED FOR CURVE TEMPLATE PURPOSES ONLY, SCALE OF 1.006:1 INCLUDES .6% SHRINKAGE FACTOR



REVISIONS		
CHK	CHANGE NO.	REV

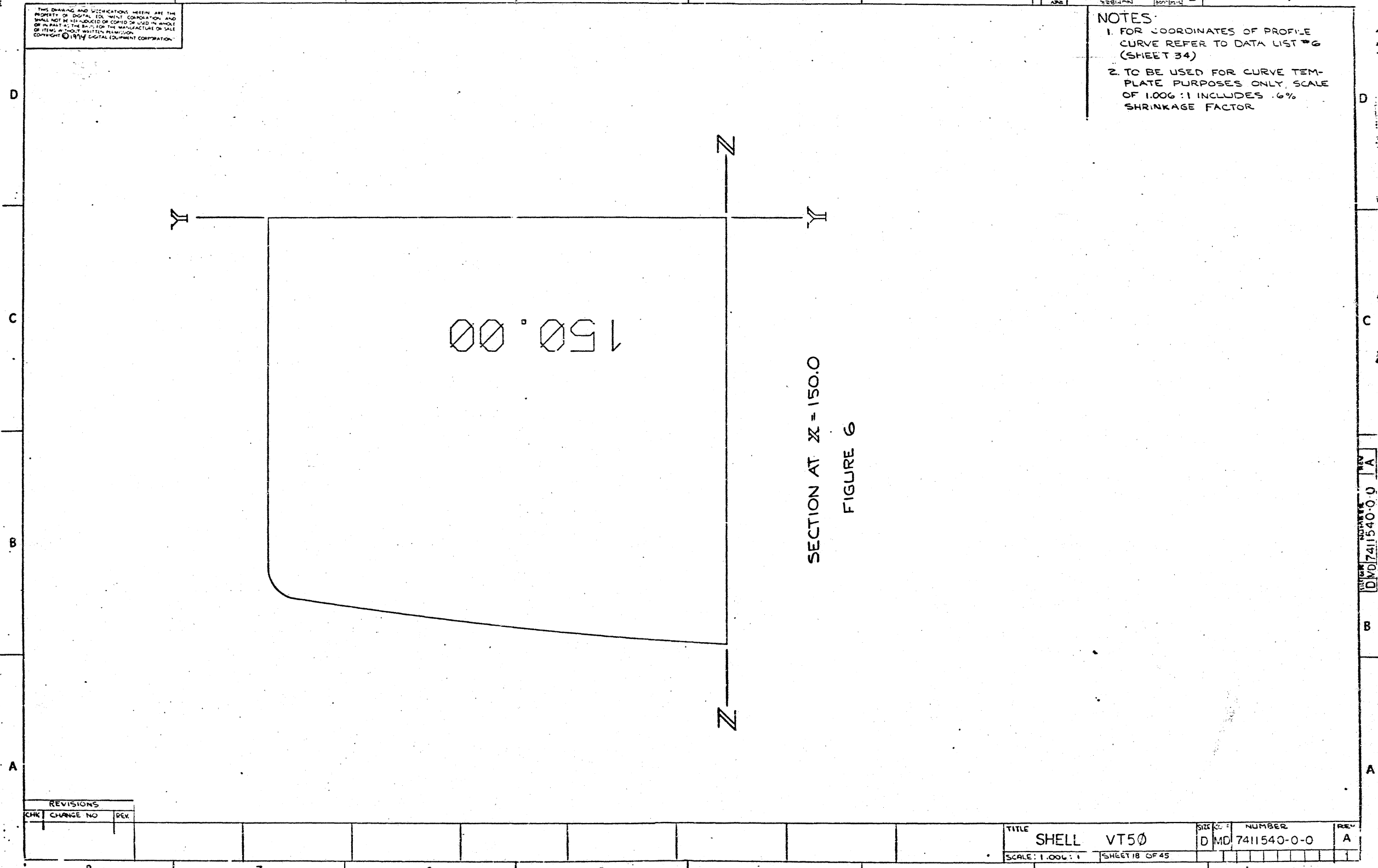
TITLE	DWG CODE	NUMBER	REV
SHELL VT50	DMD	7411540-0-0	1
SCALE 1.006:1	SHEET 17	OF 45	DIST

DMD/7411540-0-0 A

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF DIGITAL EQUIPMENT CORPORATION. COPYRIGHT © 1974 DIGITAL EQUIPMENT CORPORATION.

DMD 7411540-0-0 2

- NOTES:
1. FOR COORDINATES OF PROFILE CURVE REFER TO DATA LIST #6 (SHEET 34)
  2. TO BE USED FOR CURVE TEMPLATE PURPOSES ONLY. SCALE OF 1.006 : 1 INCLUDES .6% SHRINKAGE FACTOR



REVISIONS		
CHK	CHANGE NO	REV

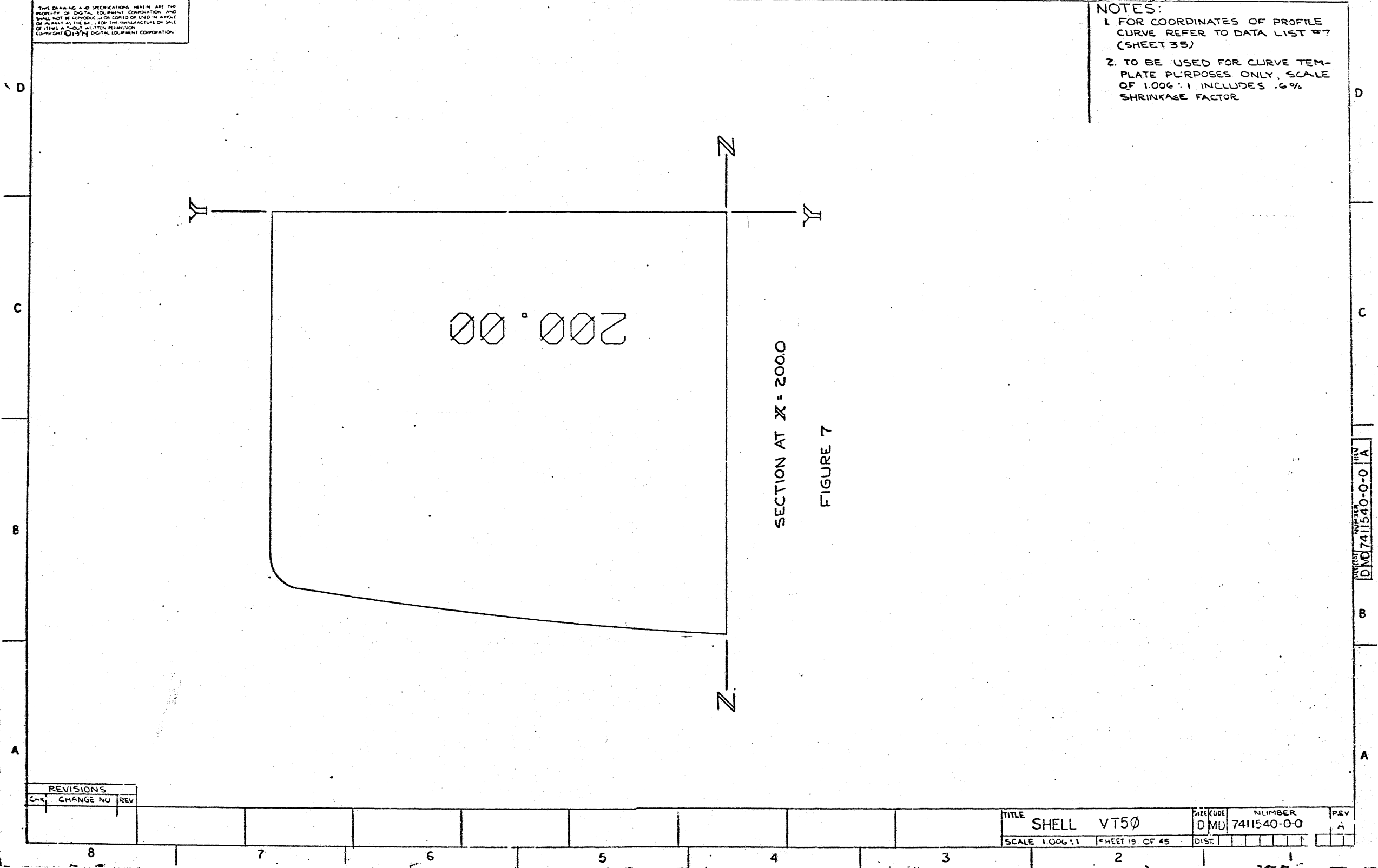
TITLE	SHELL VT50	SIZE	D MD	NUMBER	7411540-0-0	REV	A
SCALE:	1.006 : 1	SHEET 18 OF 45					



THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AT THE SITE, FOR THE MANUFACTURE OR SALE OF ITEMS, WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974 DIGITAL EQUIPMENT CORPORATION

V 0-0-0 7411540-0-0 2

- NOTES:
1. FOR COORDINATES OF PROFILE CURVE REFER TO DATA LIST #7 (SHEET 35)
  2. TO BE USED FOR CURVE TEMPLATE PURPOSES ONLY, SCALE OF 1.006:1 INCLUDES .6% SHRINKAGE FACTOR



REVISIONS		
DATE	CHANGE NO.	REV.

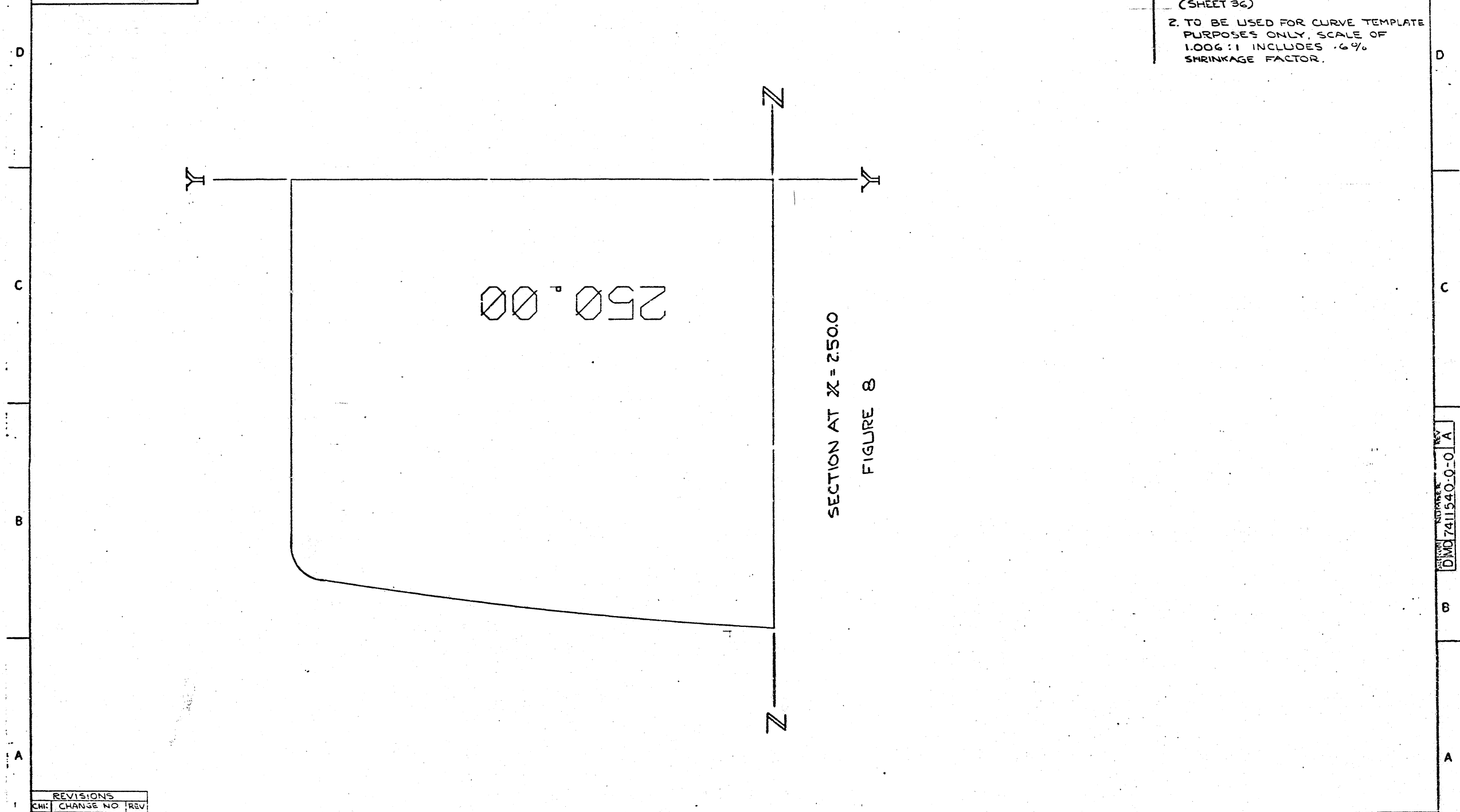
TITLE	SHELL VT50	DWG CODE	DMD	NUMBER	7411540-0-0	REV	A
SCALE	1.006:1	SHEET	19	OF	45	DIST.	

DRAWING NUMBER DMD 7411540-0-0 A

8 7 6 5 4 3 2 1

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974 DIGITAL EQUIPMENT CORPORATION.

NOTES:  
 1. FOR COORDINATES OF PROFILE CURVE REFER TO DATA LIST #8 (SHEET 36)  
 2. TO BE USED FOR CURVE TEMPLATE PURPOSES ONLY. SCALE OF 1.006 : 1 INCLUDES .6% SHRINKAGE FACTOR.



SECTION AT X = 2500  
 FIGURE 8

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SHELL VT50	FILE CODE	NUMBER	REV
SCALE	1.006 : 1	SHEET	20 OF 45	A

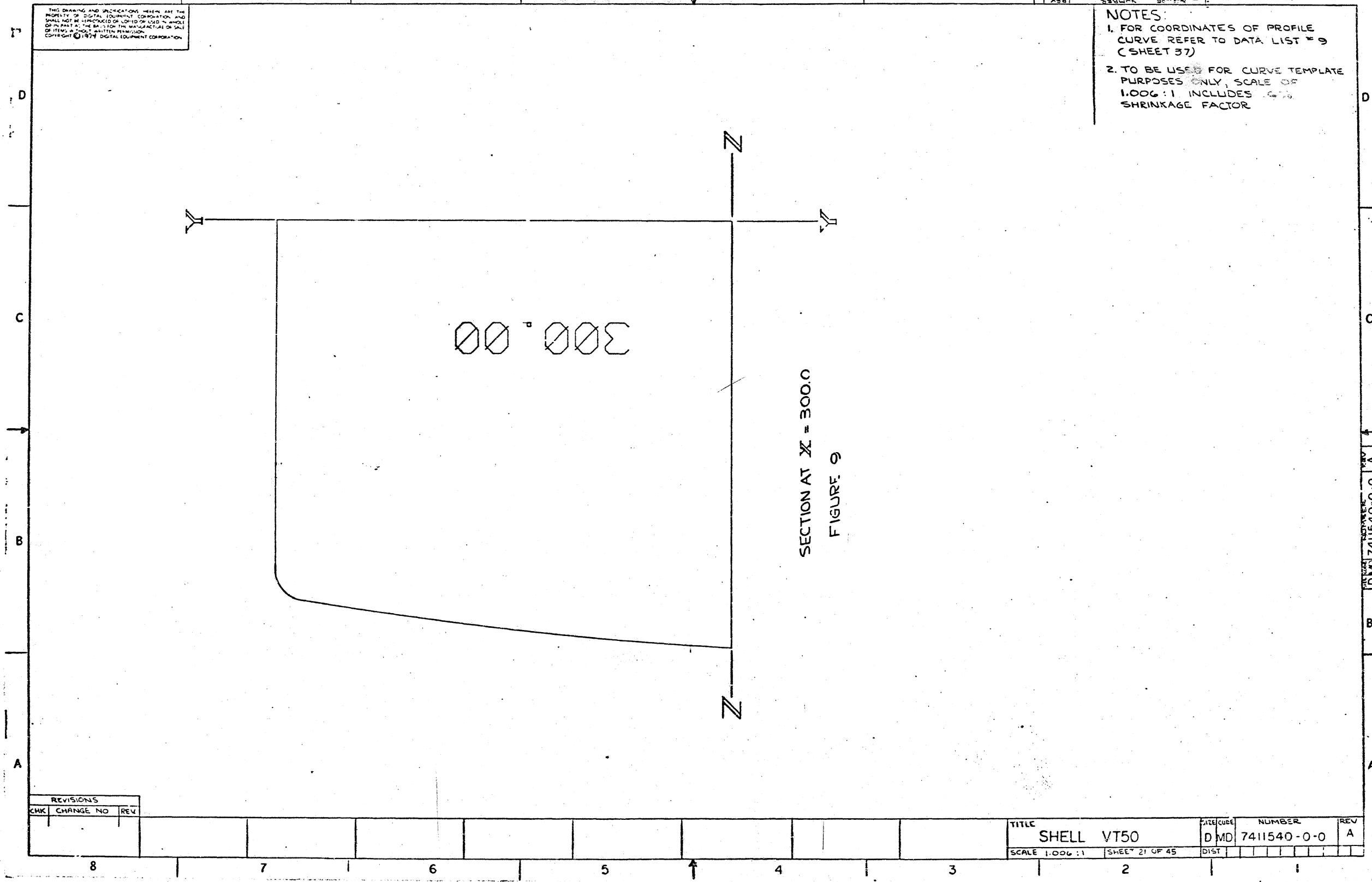
8 7 6 5 4 3 2 1

CUSTOM NUMBER DMD 7411540-0-01A

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974 DIGITAL EQUIPMENT CORPORATION.

0-0-0-791172 [DMD] 2

- NOTES:
1. FOR COORDINATES OF PROFILE CURVE REFER TO DATA LIST # 9 (SHEET 37)
  2. TO BE USED FOR CURVE TEMPLATE PURPOSES ONLY, SCALE OF 1,006:1 INCLUDES 0.7% SHRINKAGE FACTOR



00 00Σ

SECTION AT X = 300.0  
FIGURE 9

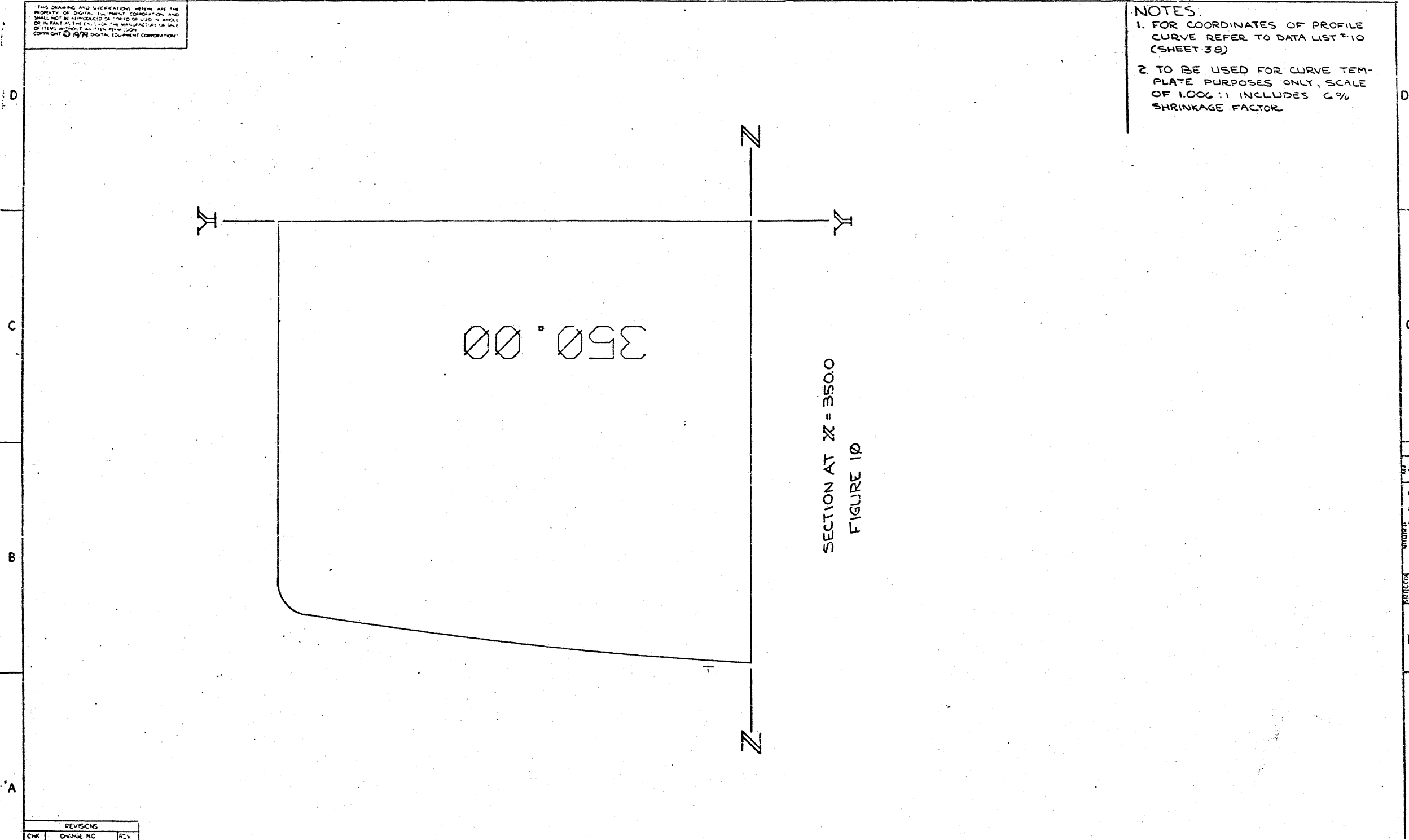
REVISIONS		
CHK	CHANGE NO	REV

TITLE	SHELL VT50	SITE CODE	DMD	NUMBER	7411540-0-0	REV	A
SCALE	1,006:1	SHEET	21 OF 45	DIST.			

DMD 7411540-0-0 A

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT WRITTEN PERMISSION FROM DIGITAL EQUIPMENT CORPORATION.

NOTES:  
 1. FOR COORDINATES OF PROFILE CURVE REFER TO DATA LIST #10 (SHEET 38)  
 2. TO BE USED FOR CURVE TEMPLATE PURPOSES ONLY, SCALE OF 1.006:1 INCLUDES 0% SHRINKAGE FACTOR



SECTION AT X = 350.0  
 FIGURE 10

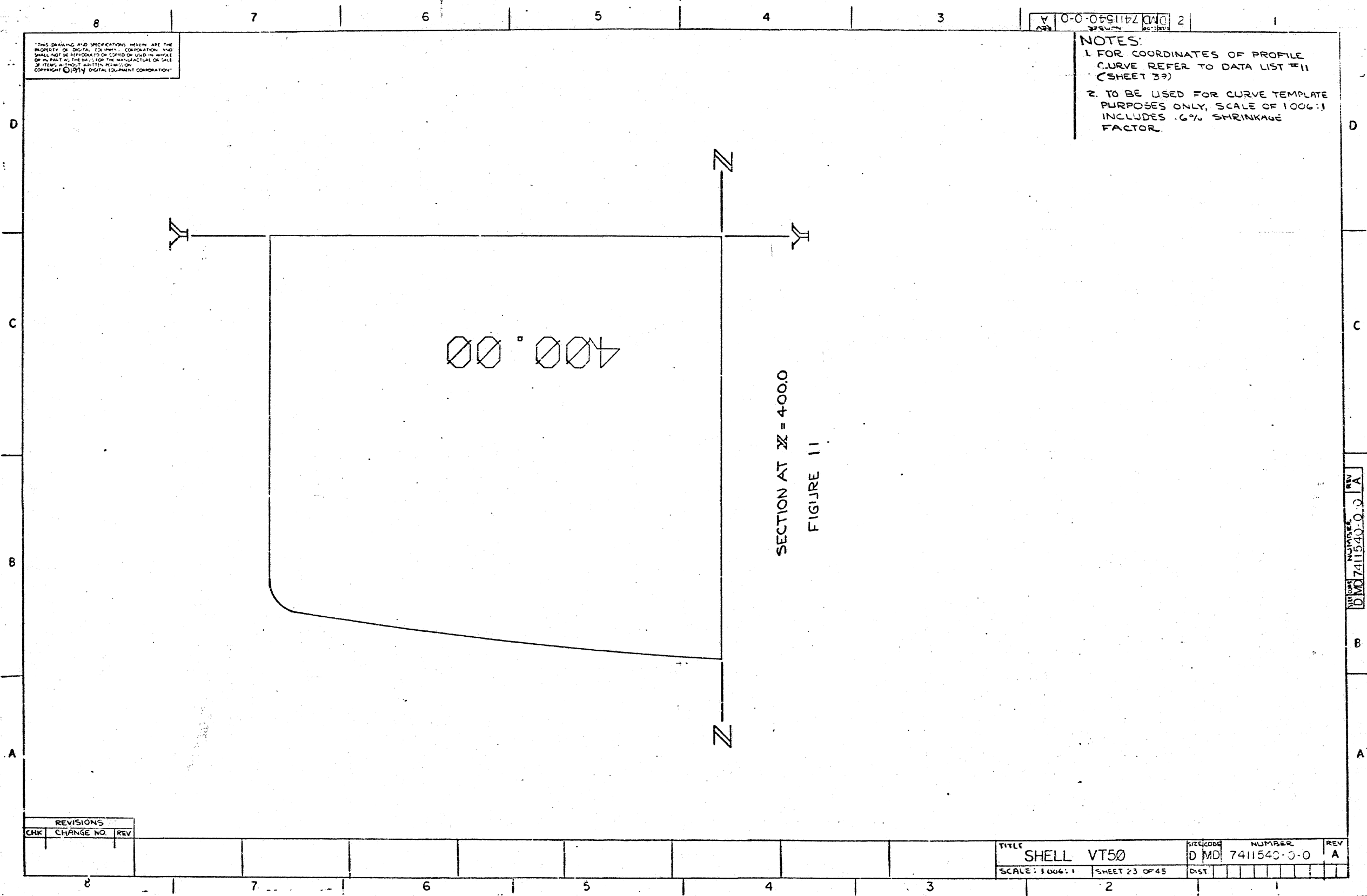
REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SIZE/SCALE	NUMBER	REV
SHELL VT50	D MD	7411540-0-0	A
SCALE: 1.006:1	SHEET 22	OF 45	LIST

DMD 7411540-0-0 A

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AT THE BAY FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974 DIGITAL EQUIPMENT CORPORATION.

NOTES:  
 1. FOR COORDINATES OF PROFILE CURVE REFER TO DATA LIST #11 (SHEET 39)  
 2. TO BE USED FOR CURVE TEMPLATE PURPOSES ONLY, SCALE OF 1006:1 INCLUDES .6% SHRINKAGE FACTOR.



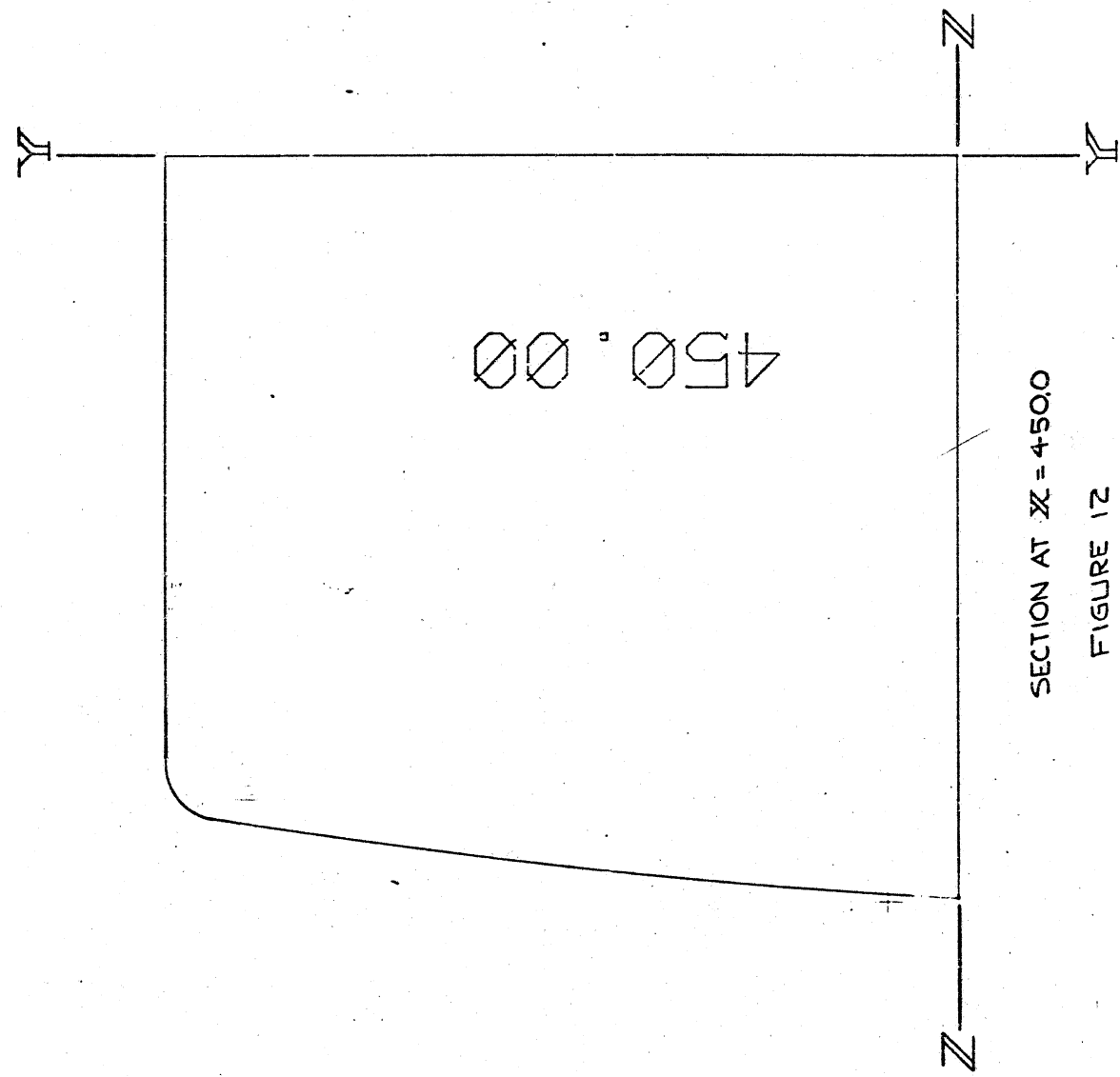
REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SHELL VT50	SEC CODE	D MD	NUMBER	7411540-0-0	REV	A
SCALE:	1006:1	SHEET	23	OF	45	DIST	

DMD 7411540-0-0 A  
 NUMBER  
 REV

THE DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN WHOLE OR IN PART BY THE BUYER FOR THE MANUFACTURE OF ANY ITEM WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974 DIGITAL EQUIPMENT CORPORATION.

NOTES  
 1. FOR COORDINATES OF PROFILE CURVE REFER TO DATA LIST 12 (SHEET 40)  
 2. TO BE USED FOR CURVE TEMPLATE PURPOSES ONLY, SCALE OF 1.006:1 INCLUDES 2% SHRINKAGE FACTOR.

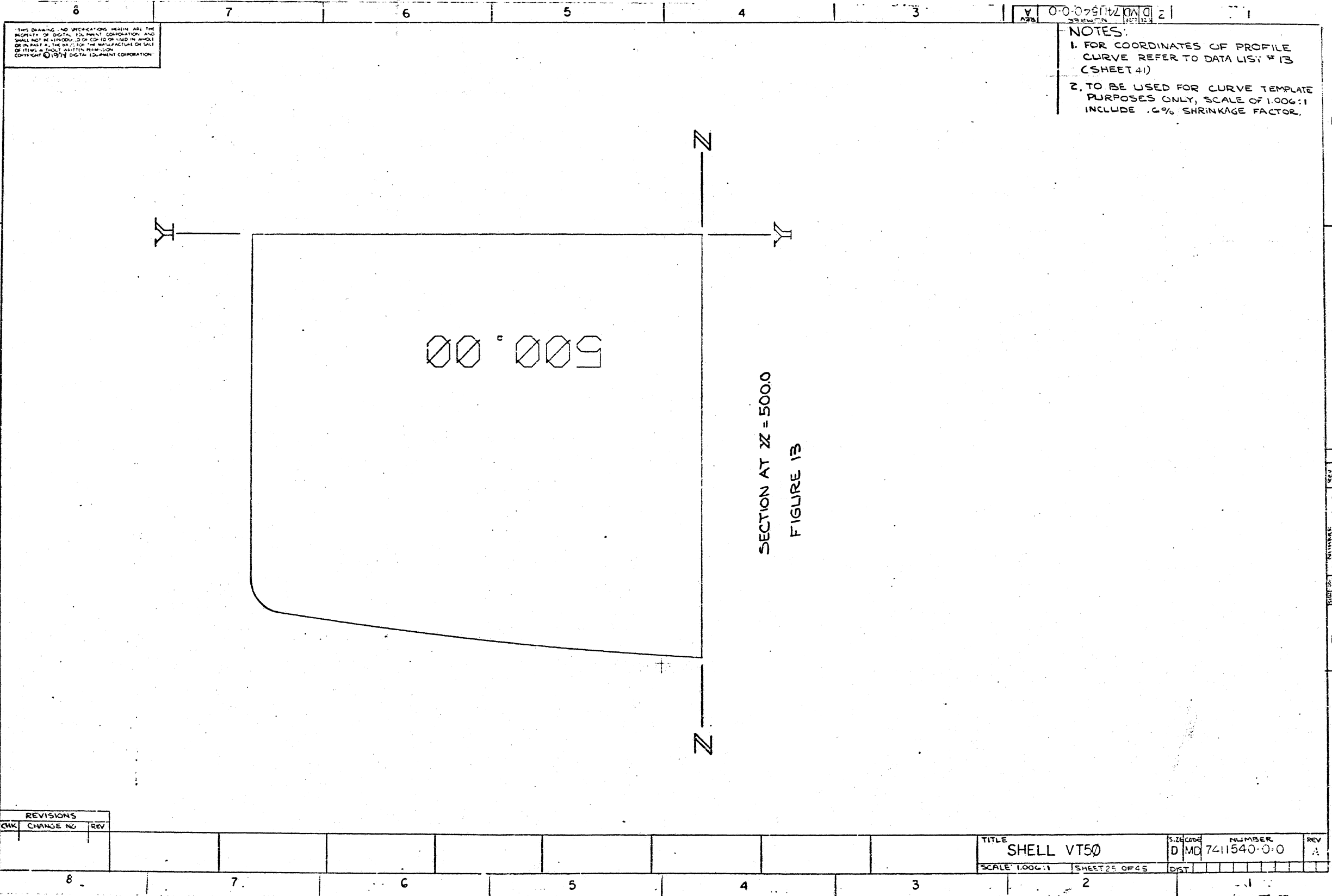


REVISIONS		
CHK	CHANGE NO	REV

8	7	6	5	4	3	2	1	
TITLE SHELL VT50						SITE CODE D MD	NUMBER 7411540-0-0	REV A
SCALE 1.006:1						SHEET 4 OF 45	DIST	

D MD 7411540-0-0 REV A





THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM DIGITAL EQUIPMENT CORPORATION.

- NOTES:
1. FOR COORDINATES OF PROFILE CURVE REFER TO DATA LIST # 13 (SHEET 41)
  2. TO BE USED FOR CURVE TEMPLATE PURPOSES ONLY, SCALE OF 1.000:1 INCLUDE .4% SHRINKAGE FACTOR.

SECTION AT Z = 5000  
FIGURE 13

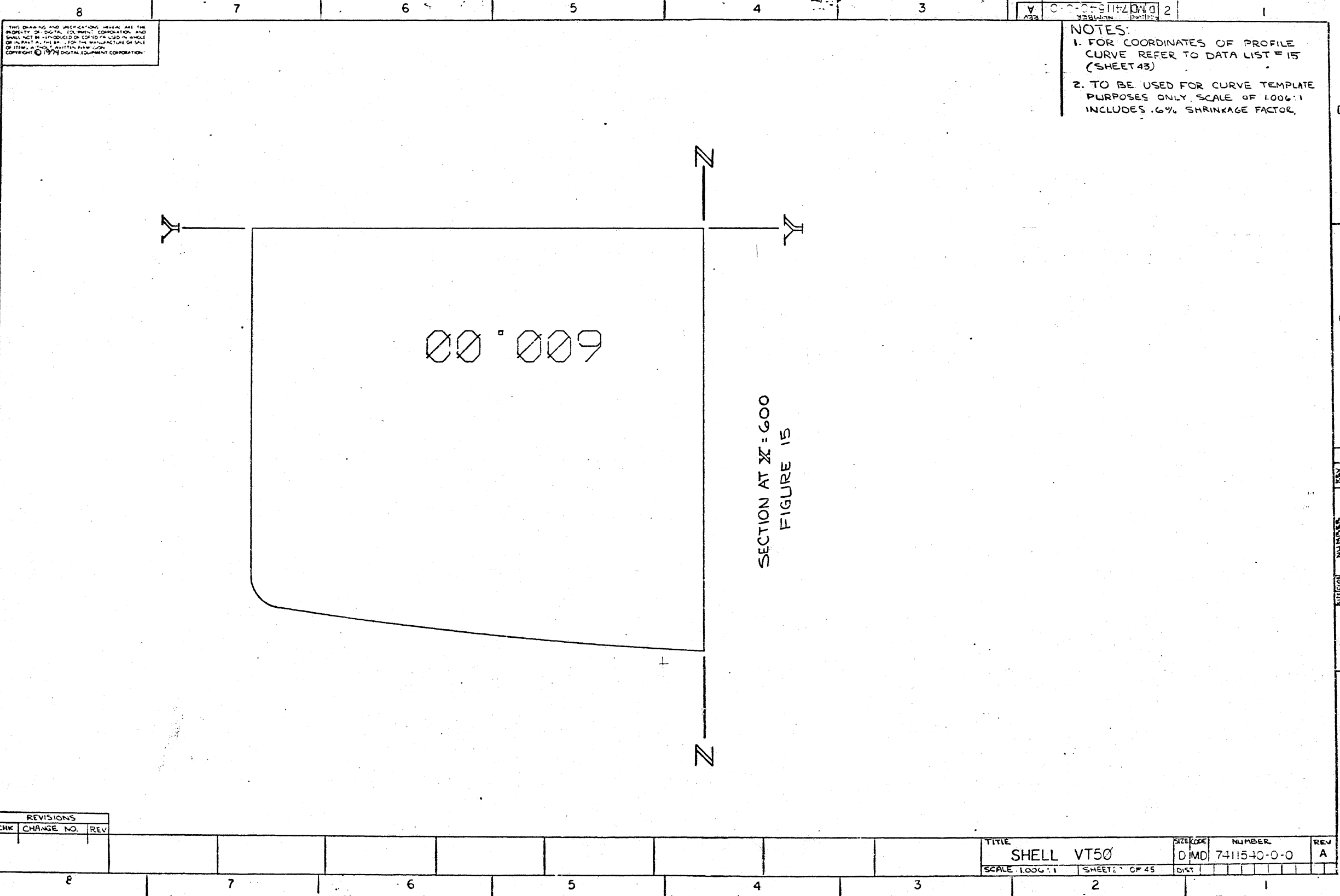
00°005

REVISIONS		
CHK	CHANGE NO	REV

TITLE	S-26 CODE	NUMBER	REV
SHELL VT50	D MD	7411540-0-0	A
SCALE 1.000:1	SHEET 25 OF 45	DIST	

D MD 7411540-0-0 A

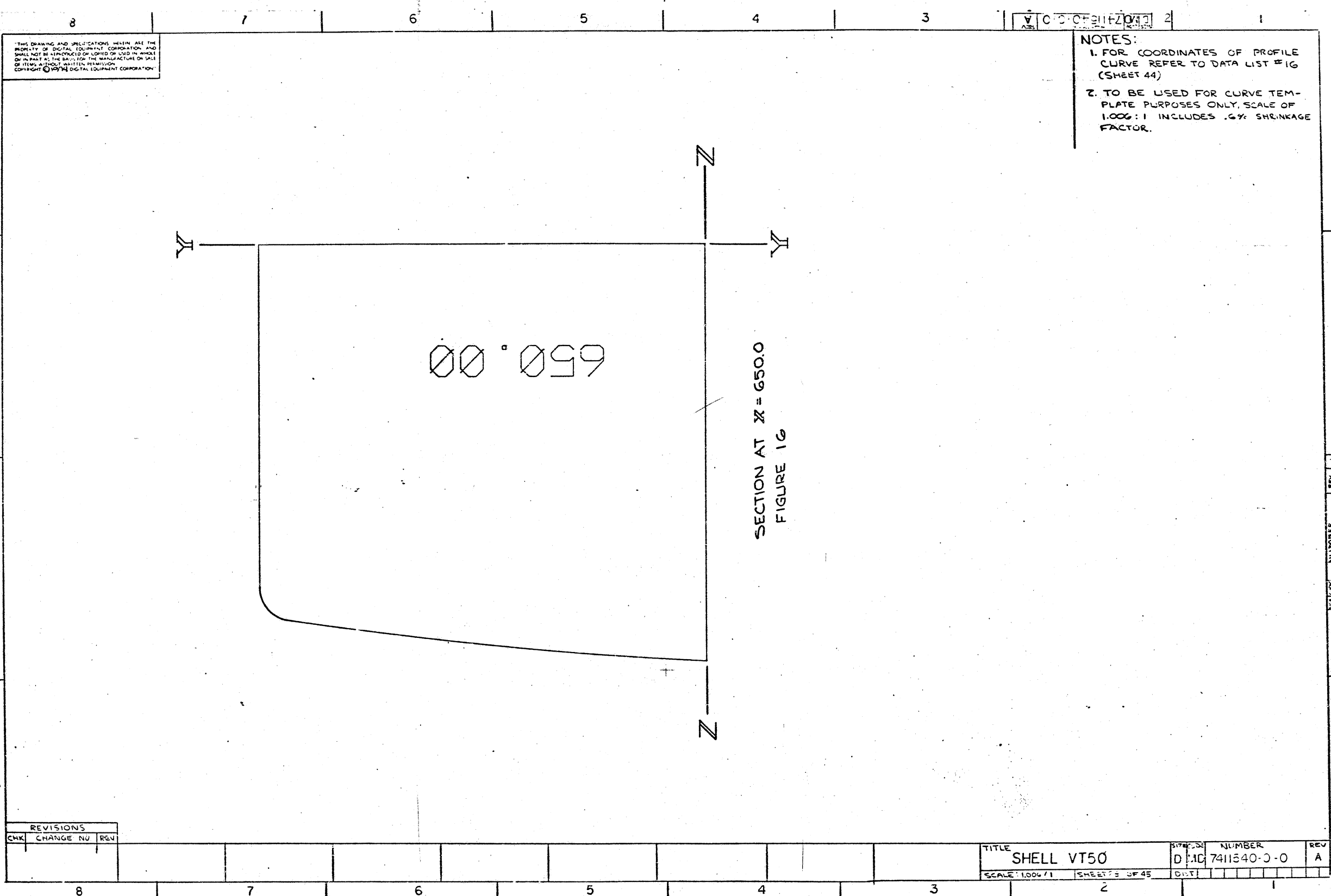




THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF DIGITAL EQUIPMENT CORPORATION. COPYRIGHT © 1974 DIGITAL EQUIPMENT CORPORATION.

SECTION 2

NUMBERS  
DMD 7411540-0-0



THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR LOANED OR USED IN WHOLE OR IN PART BY THE BUYER FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974 DIGITAL EQUIPMENT CORPORATION.

NOTES:  
 1. FOR COORDINATES OF PROFILE CURVE REFER TO DATA LIST # 16 (SHEET 44)  
 2. TO BE USED FOR CURVE TEMPLATE PURPOSES ONLY, SCALE OF 1.006:1 INCLUDES .6% SHRINKAGE FACTOR.

SECTION AT X = 650.0  
 FIGURE 16

00 099

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SHEET NO	NUMBER	REV
SHELL VT50	D.M.C.	7411340-0-0	A
SCALE 1.006/1	SHEET 3 OF 45	DATE	

NATIONAL BUREAU OF STANDARDS  
 DIMO 7411340-0-0 REV A

"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974 DIGITAL EQUIPMENT CORPORATION"

NOTES:


1. ALL DIMENSIONS ARE NOMINAL. FOR A FINISHED PART, 1:1 SCALE DOES NOT INCLUDE SHRINKAGE FACTOR.

X	Z	X	Z	X	Z
0.0302000	258.5220000	295.0222222	263.4869000	595.2222222	264.0583300
5.0222000	259.6535700	300.0222222	263.5200000	600.2222222	259.9285700
10.0222000	258.8247600	305.0222222	263.5107200	605.2222222	259.7904300
15.0222000	259.9535700	310.0222222	263.5198500	610.0222222	259.6619300
20.0222000	259.1000000	315.0222222	263.5250000	615.2222222	259.5250000
25.0222000	259.2440500	320.0222222	263.5285700	620.2222222	259.3857200
30.0222000	259.3857100	325.0222222	263.5297600	625.0222222	259.2440500
35.0222000	259.5250000	330.0222222	263.5285700	630.2222222	259.1000000
40.0222000	259.6619000	335.0222222	263.5250000	635.0222222	258.9535700
45.0222000	259.7964300	340.0222222	263.5190500	640.0222222	258.8247600
50.0222000	259.9285700	345.0222222	263.5107100	645.0222222	258.6535700
55.0222000	260.0583300	350.0222222	263.5000000	650.00	258.500
60.0222000	260.1857100	355.0222222	263.4869000		
65.0222000	260.3107100	360.0222222	263.4714300		
70.0222000	260.4333300	365.0222222	263.4535700		
75.0222000	260.5535700	370.0222222	263.4333300		
80.0222000	260.6714200	375.0222222	263.4107100		
85.0222000	260.7869000	380.0222222	263.3857200		
90.0222000	260.9000000	385.0222222	263.3583300		
95.0222000	261.0107100	390.0222222	263.3285700		
100.0222000	261.1190500	395.0222222	263.2964200		
105.0222000	261.2250000	400.0222222	263.2619000		
110.0222000	261.3285700	405.0222222	263.2250000		
115.0222000	261.4297600	410.0222222	263.1857100		
120.0222000	261.5285700	415.0222222	263.1440500		
125.0222000	261.6250000	420.0222222	263.1000000		
130.0222000	261.7190500	425.0222222	263.0535700		
135.0222000	261.8107100	430.0222222	263.0047600		
140.0222000	261.9000000	435.0222222	262.9535700		
145.0222000	261.9869000	440.0222222	262.9000000		
150.0222000	262.0714300	445.0222222	262.8440500		
155.0222000	262.1535700	450.0222222	262.7857100		
160.0222000	262.2333300	455.0222222	262.7250000		
165.0222000	262.3107100	460.0222222	262.6619000		
170.0222000	262.3857200	465.0222222	262.5964300		
175.0222000	262.4583400	470.0222222	262.5285700		
180.0222000	262.5285700	475.0222222	262.4583300		
185.0222000	262.5964300	480.0222222	262.3857200		
190.0222000	262.6619000	485.0222222	262.3107100		
195.0222000	262.7250000	490.0222222	262.2333300		
200.0222000	262.7857100	495.0222222	262.1535700		
205.0222000	262.8440500	500.0222222	262.0714300		
210.0222000	262.9000000	505.0222222	261.9869000		
215.0222000	262.9535700	510.0222222	261.9000000		
220.0222000	263.0047600	515.0222222	261.8107100		
225.0222000	263.0535700	520.0222222	261.7190500		
230.0222000	263.1000000	525.0222222	261.6250000		
235.0222000	263.1440500	530.0222222	261.5285700		
240.0222000	263.1857100	535.0222222	261.4297600		
245.0222000	263.2250000	540.0222222	261.3285700		
250.0222000	263.2619100	545.0222222	261.2250000		
255.0222000	263.2964300	550.0222222	261.1190500		
260.0222000	263.3285700	555.0222222	261.0107100		
265.0222000	263.3583300	560.0222222	260.9000000		
270.0222000	263.3857200	565.0222222	260.7869000		
275.0222000	263.4107200	570.0222222	260.6714300		
280.0222000	263.4333300	575.0222222	260.5535700		
285.0222000	263.4535700	580.0222222	260.4333300		
290.0222000	263.4714300	585.0222222	260.3107100		
		590.0222222	260.1857100		

DATA LIST #1  
SEE FIGURE 1 SHEET 13

METRIC DIMENSIONS

REV.	CHANGE NO.
CHK	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
VT50				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES				
TOLERANCES		PARTS LIST		
DECIMALS	ANGLES	DRN.	DATE	 digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
	±0° 30'	CHK'D	DATE	
		ENG.	DATE	
		PROJ. ENG.	DATE	
		PROD.	DATE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY V				
MATERIAL		TITLE		
NEXT HIGHER ASSY.		SHELL VT50		
FINISH		SCALE	SIZE CODE	NUMBER
		1/1	CMD	7411540-0-0
		SHEET 29 OF 45	DIST.	REV. A

REV. A  
NUMBER 7411540-0-0  
SIZE CODE CMD

"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975, DIGITAL EQUIPMENT CORPORATION"

NOTES:

1. ALL DIMENSIONS ARE NOMINAL FOR A FINISHED PART, 1:1 SCALE DOES NOT INCLUDE SHRINKAGE FACTOR
2. X,Y COORDINATES ARE THE SAME FOR THE ENTIRE WIDTH OF THE SHELL

X	Y
0.000000	285.020000
5.000000	285.017000
10.000000	285.033200
15.000000	285.048600
20.000000	285.263000
25.000000	285.076600
30.000000	285.089400
35.000000	285.131300
40.000000	285.112300
45.000000	285.122500
50.000000	285.131800
55.000000	285.140300
60.000000	285.147900
65.000000	285.154400
70.000000	285.160500
75.000000	285.165500
80.000000	285.169600
85.000000	285.172900
90.000000	285.175300
95.000000	285.176900
100.000000	285.177600
105.000000	285.177500
110.000000	285.176800
115.000000	285.174600
120.000000	285.171800
125.000000	285.168200
130.000000	285.163800
135.000000	285.158400
140.000000	285.152300
145.000000	285.145200
150.000000	285.137300
155.000000	285.128600
160.000000	285.119800
165.000000	285.110400
170.000000	285.097100
175.000000	285.084900
180.000000	285.071800
185.000000	285.057900
190.000000	285.043100
195.000000	285.027500
200.000000	285.012900
205.000000	284.993600
210.000000	284.975300
215.000000	284.956200
220.000000	284.936300
225.000000	284.915500
230.000000	284.893800
235.000000	284.871300
240.000000	284.847900
245.000000	284.823600
250.000000	284.798500
255.000000	284.772500
260.000000	284.745700
265.000000	284.718000
270.000000	284.689400
275.000000	284.660300
280.000000	284.629700
285.000000	284.598600
290.000000	284.566900

X	Y
295.000000	284.533700
300.000000	284.507000
305.000000	284.465400
310.000000	284.429900
315.000000	284.393600
320.000000	284.356400
325.000000	284.318500
330.000000	284.279600
335.000000	284.239800
340.000000	284.199000
345.000000	284.157200
350.000000	284.115300
355.000000	284.072100
360.000000	284.029100
365.000000	283.983200
370.000000	283.937400
375.000000	283.890800
380.000000	283.843300
385.000000	283.794900
390.000000	283.745700
395.000000	283.695600
400.000000	283.644600
405.000000	283.592800
410.000000	283.540200
415.000000	283.486900
420.000000	283.432300
425.000000	283.377600
430.000000	283.322900
435.000000	283.263900
440.000000	283.206100
445.000000	283.147400
450.000000	283.087900
455.000000	283.027500
460.000000	282.966200
465.000000	282.904900
470.000000	282.841800
475.000000	282.777200
480.000000	282.712500
485.000000	282.646900
490.000000	282.580500
495.000000	282.513200
500.000000	282.445000
505.000000	282.376000
510.000000	282.306100
515.000000	282.235400
520.000000	282.163800
525.000000	282.091300
530.000000	282.018200
535.000000	281.943800
540.000000	281.868700
545.000000	281.792800
550.000000	281.716200
555.000000	281.638900
560.000000	281.560000
565.000000	281.480500
570.000000	281.400400
575.000000	281.319700
580.000000	281.237400
585.000000	281.154600
590.000000	281.070900

DATA LIST #2  
SEE FIGURE 2 SHEET 14

METRIC DIMENSIONS

REV.	CHANGE NO.	CHK.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
VT50				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		DRN. <i>[Signature]</i>	DATE 1-21-74	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
TOLERANCES		CHK'D. <i>[Signature]</i>	DATE 1-21-74	
DECIMALS	ANGLES	ENG. <i>[Signature]</i>	DATE 1-21-74	TITLE SHELL VT50
$\pm .005$	$\pm 0' 30''$	PROJ. ENG. <i>[Signature]</i>	DATE 1-21-74	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY $\sqrt{\quad}$		PROD. <i>[Signature]</i>	DATE 1-21-74	
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE		NUMBER
		C MD		7411540-0-0
FINISH	SCALE 1/1	REV.		A
	SHEET 30 OF 45	DIST.		

REV. A  
NUMBER 7411540-0-0  
C MD



This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission. COPYRIGHT © 1975  
DIGITAL EQUIPMENT CORPORATION

Y	Z
265.0000000	230.8000200
280.0000000	230.7431100
275.0000000	231.5168200
270.0000000	232.2611100
265.0000000	232.9960100
260.0000000	233.7215000
255.0000000	234.4376000
250.0000000	235.1442000
245.0000000	235.8415000
240.0000000	236.5294500
235.0000000	237.2079500
230.0000000	237.8770400
225.0000000	238.5367200
220.0000000	239.1870000
215.0000000	239.8278000
210.0000000	240.4593600
205.0000000	241.0814300
200.0000000	241.6941100
195.0000000	242.2973000
190.0000000	242.8912500
185.0000000	243.4757200
180.0000000	244.0507900
175.0000000	244.6164600
170.0000000	245.1727200
165.0000000	245.7195900
160.0000000	246.2570500
155.0000000	246.7851100
150.0000000	247.3037700
145.0000000	247.8130300
140.0000000	248.3120000
135.0000000	248.8003400
130.0000000	249.2783900
125.0000000	249.7460400
120.0000000	250.2029000
115.0000000	250.6491300
110.0000000	251.0848000
105.0000000	251.5099500
100.0000000	251.9246000
95.0000000	252.3287000
90.0000000	252.7223000
85.0000000	253.1054000
80.0000000	253.4780000
75.0000000	253.8401000
70.0000000	254.1917000
65.0000000	254.5328000
60.0000000	254.8634000
55.0000000	255.1835000
50.0000000	255.4931000
45.0000000	255.7922000
40.0000000	256.0808000
35.0000000	256.3590000
30.0000000	256.6268000
25.0000000	256.8842000
20.0000000	257.1311000
15.0000000	257.3675000
10.0000000	257.5934000
5.0000000	257.8088000
0.0000000	258.0137000
0.0000000	258.2081000
0.0000000	258.3917000

DATA LIST #3  
SEE FIGURE 3 SHEET 15

NOTES:  
1. ALL DIMENSIONS ARE NOMINAL.  
FOR A FINISHED PART, 1:1 SCALE  
DOES NOT INCLUDE SHRINKAGE FACTOR

METRIC DIMENSIONS

CHK	CHANGE NO.	REV.

FIRST USED ON OPTION/MODEL VT50		QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES					
DECIMALS	TOLERANCES	ANGLES	PARTS LIST		
.xxx = .005	.xx = .02	.0° 30'	DEN.	DATE	DATE
.x = .1			CHK'D.	DATE	DATE
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY Y			ENG.	DATE	DATE
MATERIAL			PROJ. ENG.	DATE	DATE
NEXT HIGHER ASSY.			PROD.	DATE	DATE
FINISH			SCALE	SIZE CODE	NUMBER
SHEET 31 OF 45			1:1	B MD	7411540-0-0
			DIST.		
					-REV. A

DWG 100  
DEC 16-1329-10801A-R373

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part as the basis for the manufacture or sale of items without written permission. COPYRIGHT © 1975  
DIGITAL EQUIPMENT CORPORATION

289, 1318700	238, 5714300
288, 1318700	231, 3496800
278, 1318700	232, 1185200
269, 1318700	232, 8779500
265, 1318700	233, 6279800
260, 1318700	234, 3685900
255, 1318700	235, 0997900
250, 1318700	235, 8215800
245, 1318700	236, 5339600
240, 1318700	237, 2369300
235, 1318700	237, 9304900
230, 1318700	238, 6146400
225, 1318700	239, 2893800
220, 1318700	239, 9547000
215, 1318700	240, 6186200
210, 1318700	241, 2571300
205, 1318700	241, 8942300
200, 1318700	242, 5214200
195, 1318700	243, 1402000
190, 1318700	243, 7492600
185, 1318700	244, 3485200
180, 1318700	244, 9385700
175, 1318700	245, 5192100
170, 1318700	246, 0904300
165, 1318700	246, 6522500
160, 1318700	247, 2046500
155, 1318700	247, 7476500
150, 1318700	248, 2812400
145, 1318700	248, 8854100
140, 1318700	249, 3281800
135, 1318700	249, 8255300
130, 1318700	250, 3214800
125, 1318700	250, 8080100
120, 1318700	251, 2851400
115, 1318700	251, 7520500
110, 1318700	252, 2111600
105, 1318700	252, 6683500
100, 1318700	253, 0995400
95, 1318660	253, 5296100
90, 1318660	253, 9502700
85, 1318660	254, 3615200
80, 1318660	254, 7633700
75, 1318660	255, 1550000
70, 1318660	255, 5380200
65, 1318660	255, 9124300
60, 1318660	256, 2766400
55, 1318660	256, 6314300
50, 1318660	256, 9760100
45, 1318660	257, 3127800
40, 1318660	257, 6393400
35, 1318660	257, 9564900
30, 1318660	258, 2642400
25, 1318660	258, 5625600
20, 1318660	258, 8514800
15, 1318660	259, 1389900
10, 1318660	259, 4010900
5, 1318660	259, 6617900
1318665	259, 9306000

DATA LIST #4  
SEE FIGURE 4 SHEET 16

NOTES:  
1. ALL DIMENSIONS ARE NOMINAL FOR A FINISHED PART, 1:1 SCALE DOES NOT INCLUDE SHRINKAGE FACTOR

METRIC DIMENSIONS

FIRST USED ON OPTION/MODEL VT50		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES					
DECIMALS	TOLERANCES	ANGLES	DRN.	DATE	DATE
.xxx = .005		±0° 30'	CHK'D.	1/28/74	
x = .1			ENG.		
			PROJ. ENG.		
			PROD.		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY					
MATERIAL			NEXT HIGHER ASSY.		
FINISH			SCALE		
			1/1		
			SHEET	32	OF 45
			DIST.		
			SIZE CODE	BMD	
			NUMBER	7411540-0-0	
			REV.	A	

REVISIONS	
CHK	CHANGE NO.

DWG 14-1329-10001A-R373  
DWB 100

4

3

2

1

4

3

V

0-0-0-0-51174

REV.

2

8

2

1



This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or used in whole or in part as the basis for the manufacture or sale of items without written permission. © BY RIGHT © 1975  
 DIGITAL EQUIPMENT CORPORATION

285,1373600	231,4285900
280,1373600	232,2297700
275,1373600	233,0215300
270,1373600	233,8038600
265,1373600	234,5767700
260,1373600	235,3402600
255,1373600	236,0943200
250,1373600	236,8389600
245,1373600	237,5741800
240,1373600	238,2999700
235,1373600	239,0163400
230,1373600	239,7232000
225,1373600	240,4208000
220,1373600	241,1089200
215,1373600	241,7875700
210,1373600	242,4568200
205,1373600	243,1166500
200,1373600	243,7670500
195,1373600	244,4003300
190,1373600	245,0395900
185,1373600	245,6617200
180,1373600	246,2744200
175,1373600	246,8771000
170,1373600	247,4715700
165,1373600	248,0560100
160,1373600	248,6310200
155,1373600	249,1966100
150,1373600	249,7527700
145,1373600	250,2995100
140,1373600	250,8368300
135,1373600	251,3647300
130,1373600	251,8831900
125,1373600	252,3922400
120,1373600	252,8910600
115,1373600	253,3806600
110,1373600	253,8620400
105,1373600	254,3341900
100,1373600	254,7961200
95,1373600	255,2486300
90,1373600	255,6917100
85,1373600	256,1253600
80,1373600	256,5495900
75,1373600	256,9644100
70,1373600	257,3697900
65,1373600	257,7657500
60,1373600	258,1522900
55,1373600	258,5294100
50,1373600	258,8971000
45,1373600	259,2553600
40,1373600	259,6042100
35,1373600	259,9436300
30,1373600	260,2736200
25,1373600	260,5942000
20,1373600	260,9053500
15,1373600	261,2070700
10,1373600	261,4993700
5,1373600	261,7822500
1373634	262,0557000

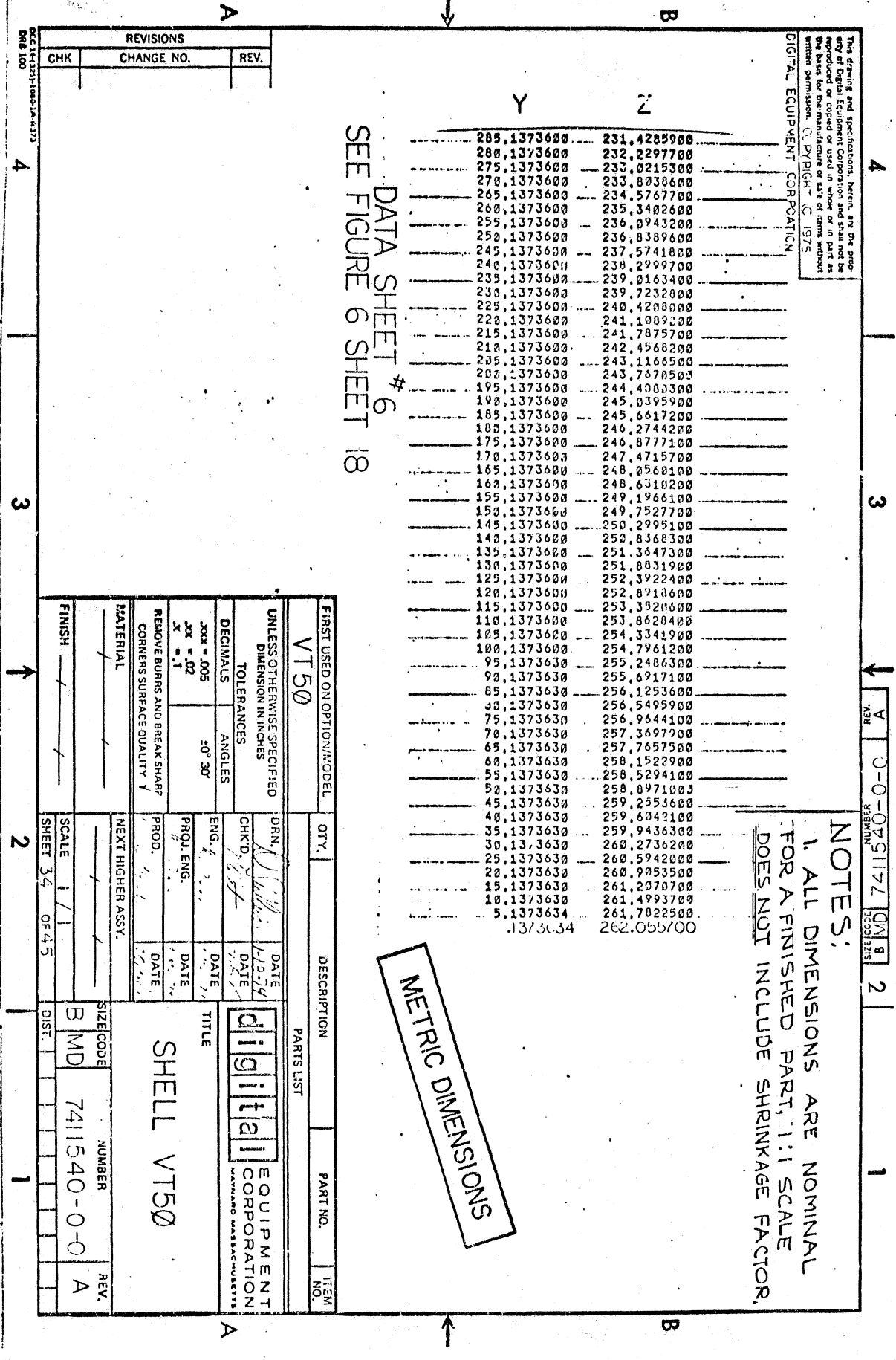
DATA SHEET # 6  
 SEE FIGURE 6 SHEET 18

NOTES:  
 1. ALL DIMENSIONS ARE NOMINAL  
 FOR A FINISHED PART, 1:1 SCALE  
 DOES NOT INCLUDE SHRINKAGE FACTOR.

METRIC DIMENSIONS

FIRST USED ON OPTION/MODEL		VT50	
UNLESS OTHERWISE SPECIFIED		DIMENSIONS IN INCHES	
DECIMALS	TOLERANCES	ANGLES	ANGLES
.xxx = .005		±0° 30'	
.x = .1			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY			
MATERIAL			
NEXT HIGHER ASSY.			
FINISH	SCALE	SHEET	OF 4 5
	1/1	34	
PARTS LIST		PART NO.	
QTY.	DESCRIPTION	DATE	DATE
		12-74	
TITLE		SHELL VT50	
SIZE CODE		B MD	
NUMBER		741540-0-0	
REV.		A	

DEC 14 1975 10:00 AM 4373  
 DMS 100



This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission. COPYRIGHT © 1975  
DIGITAL EQUIPMENT CORPORATION

233.0109900	231.7143000
280.0109900	232.5232500
275.0109900	233.3227700
270.0109900	234.1120700
265.0109900	234.0935400
260.0109900	235.6647700
255.0109900	236.4265800
250.0109900	237.1789600
245.0109900	237.9219200
240.0109900	238.6554400
235.0109900	239.3795400
230.0109900	240.0942800
225.0109900	240.7994400
220.0109900	241.4952500
215.0109900	242.1816300
210.0109900	242.8585900
205.0109900	243.5261200
200.0109900	244.1842100
195.0109900	244.8328800
190.0109900	245.4721200
185.0109900	246.1019300
180.0109900	246.7223100
175.0109900	247.3332700
170.0109900	247.9348000
165.0109900	248.5268900
160.0109900	249.1095600
155.0109900	249.6828100
150.0109900	250.2466200
145.0109900	250.8013000
140.0109900	251.3459600
135.0109900	251.8814800
130.0109900	252.4075900
125.0109900	252.9242600
120.0109900	253.4315000
115.0109900	253.9293100
110.0109900	254.4177000
105.0109900	254.8966600
100.0109900	255.3661900
95.0109900	255.8262900
90.0109900	256.2769500
85.0109900	256.7182000
80.0109900	257.1504100
75.0109900	257.5724000
70.0109900	257.9853600
65.0109900	258.3888900
60.0109900	258.7829900
55.0109900	259.1676600
50.0109900	259.5429100
45.0109900	259.9387300
40.0109900	260.2651100
35.0109900	260.6120700
30.0109900	260.9496300
25.0109900	261.2777100
20.0109900	261.5963800
15.0109900	261.9056200
10.0109900	262.2054400
5.0109900	262.4958300
0.0109900	262.7767900

DATA LIST #7  
SEE FIGURE 7 SHEET 19

NOTES:  
1. ALL DIMENSIONS ARE NOMINAL FOR A FINISHED PART, 1:1 SCALE  
DOES NOT INCLUDE SHRINKAGE FACTOR.

METRIC DIMENSIONS

REVISIONS	
CHK	CHANGE NO.

FIRST USED OR OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
VT50					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES					
TOLERANCES					
DECIMALS	ANGLES				
xxx = .005	+0° 30'				
xx = .02					
x = .1					
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY Y					
MATERIAL					
NEXT HIGHER ASSY.					
FINISH					
SCALE					
SHEET 35 OF 45					
SIZE CODE	NUMBER	REV.			
BMD	7411540-0-0	A			

DWG 15411540-0-0-0-0  
DWB 100

4 3 2 1

REV. A 0-0-0751172 QM B 21

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Digital Equipment Corporation.

DIGITAL EQUIPMENT CORPORATION  
 1975

REV. A 0-0-075111-2 [DIM] B 2 1

NOTES:  
 1. ALL DIMENSIONS ARE NOMINAL FOR A FINISHED PART, 1:1 SCALE DOES NOT INCLUDE SHRINKAGE FACTOR

Y	Z
284,7985300	231,9847700
279,7985300	232,7198800
274,7985300	233,5237600
269,7985300	234,3194100
264,7985300	235,1854300
259,7985300	236,8920100
254,7985300	237,6491600
249,7985300	238,4868900
244,7985300	239,1551800
239,7985300	238,8940400
234,7985300	239,6234600
229,7985300	240,3434600
224,7985300	241,0548200
219,7985300	241,7551600
214,7985300	242,4468600
209,7985300	243,1291300
204,7985300	243,8019600
199,7985300	244,4653700
194,7985300	245,1193400
189,7985300	245,7638800
184,7985300	246,3989900
179,7985300	247,0246700
174,7985300	247,6409200
169,7985300	248,2477400
164,7985300	248,8451200
159,7985300	249,4330700
154,7985300	250,0115900
149,7985300	250,5806800
144,7985300	251,1403400
139,7985300	251,6905600
134,7985300	252,2313500
129,7985300	252,7627200
124,7985300	253,2846500
119,7985300	253,7971400
114,7985300	254,3002100
109,7985300	254,7938500
104,7985300	255,2780500
99,7985340	255,7528200
94,7985340	256,2181600
89,7985340	256,6740600
84,7985340	257,1205400
79,7985340	257,5575900
74,7985340	257,9852000
69,7985340	258,4033800
64,7985340	258,8121300
59,7985340	259,2114500
54,7985340	259,6013400
49,7985340	259,9817900
44,7985340	260,3528100
39,7985340	260,7144100
34,7985340	261,0665600
29,7985340	261,4092900
24,7985340	261,7425800
19,7985340	262,0664500
14,7985340	262,3808900
9,7985344	262,6858800
4,7985344	262,9814500

DATA LIST # 8  
 SEE FIGURE 8 SHEET 20

METRIC DIMENSIONS

REVISIONS	
CHK	CHANGE NO.

FIRST USED ON OPTION/MODEL		VT50	QTY.		DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES							
DECIMALS	TOLERANCES	ANGLES	DRN.	DATE	PARTS LIST		
.005		50° 30'	CHK'D.	DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
.02			ENG.	DATE	TITLE		
.1			PROJ. ENG.	DATE	SHELL VT50		
			REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY Y	DATE	SIZE CODE		
			MATERIAL		B MD 7411540-0-0		
			NEXT HIGHER ASSY.		NUMBER		
			FINISH		REV. A		
			SCALE 1/1		DIST.		
			SHEET 36 OF 45				



This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission. COPYRIGHT © 1975

DIGITAL EQUIPMENT CORPORATION

Z	Y
232.0000100	264.5000000
232.8171800	279.5000000
233.6240200	274.5000000
234.4282300	269.5000000
235.2181000	264.5000000
235.9915400	259.5000000
236.7615400	249.5000000
237.5221100	244.5000000
238.2732500	239.5000000
239.0149600	234.5000000
239.7472300	229.5000000
240.4706600	224.5000000
241.1854700	219.5000000
241.8874400	214.5000000
242.5819800	209.5000000
243.2672600	204.5000000
243.9427500	199.5000000
244.6089900	194.5000000
245.2657900	189.5000000
245.9131600	184.5000000
246.5511000	179.5000000
247.1796000	174.5000000
247.7986700	169.5000000
248.4083000	164.5000000
249.0085000	159.5000000
249.5992000	154.5000000
250.1806100	149.5000000
250.7525100	144.5000000
251.3149000	139.5000000
251.8680200	134.5000000
252.4116200	129.5000000
252.9457900	124.5000000
253.4702000	119.5000000
253.9852000	114.5000000
254.4916900	109.5000000
254.9881300	104.5000000
255.4751200	99.5000000
255.9526900	94.5000000
256.4208300	89.5000000
256.8795300	84.5000000
257.3280000	79.5000000
257.7663000	74.5000000
258.1903000	69.5000000
258.6000000	64.5000000
259.0031300	59.5000000
259.4036300	54.5000000
259.8230000	49.5000000
260.2095300	44.5000000
260.5833000	39.5000000
260.9470000	34.5000000
261.3063000	29.5000000
261.6491300	24.5000000
261.9842000	19.5000000
262.3108000	14.5000000
262.6200000	9.5000000
262.9357900	4.5000000
263.2341200	

NOTES:  
 1. ALL DIMENSIONS ARE NOMINAL  
 FOR A FINISHED PART, 1:1 SCALE  
 DOES NOT INCLUDE SHRINKAGE  
 FACTOR.

METRIC DIMENSIONS

DATA LIST #9  
 SEE FIGURE 9 SHEET 21

REV.	CHG.	NO.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
VT50				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		DRN. <i>ultra</i>	DATE <i>12/2/74</i>	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
TOLERANCES		CHK'D. <i>g</i>	DATE <i>1/1/75</i>	
DECIMALS	ANGLES	ENG. <i>h</i>	DATE <i>1/2/75</i>	TITLE SHELL VT50
<i>.xxx = .005</i>	<i>±0° 30'</i>	PROJ. ENG. <i>R</i>	DATE <i>1/2/75</i>	
<i>.xx = .02</i>		PROD. <i>h</i>	DATE <i>1/2/75</i>	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY Y		NEXT HIGHER ASSY.		
MATERIAL	SCALE 1:1			
FINISH	SHEET 37 OF 45			
		SIZE CODE	NUMBER	REV.
		BMD	7411540-0-0	A
		DIST.		

DEC 16 (325)-1080-1A-R373  
 DRB 100



This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission. COPYRIGHT © 1975 DIGITAL EQUIPMENT CORPORATION

DATA LIST # 11  
SEE FIGURE 11 SHEET 23

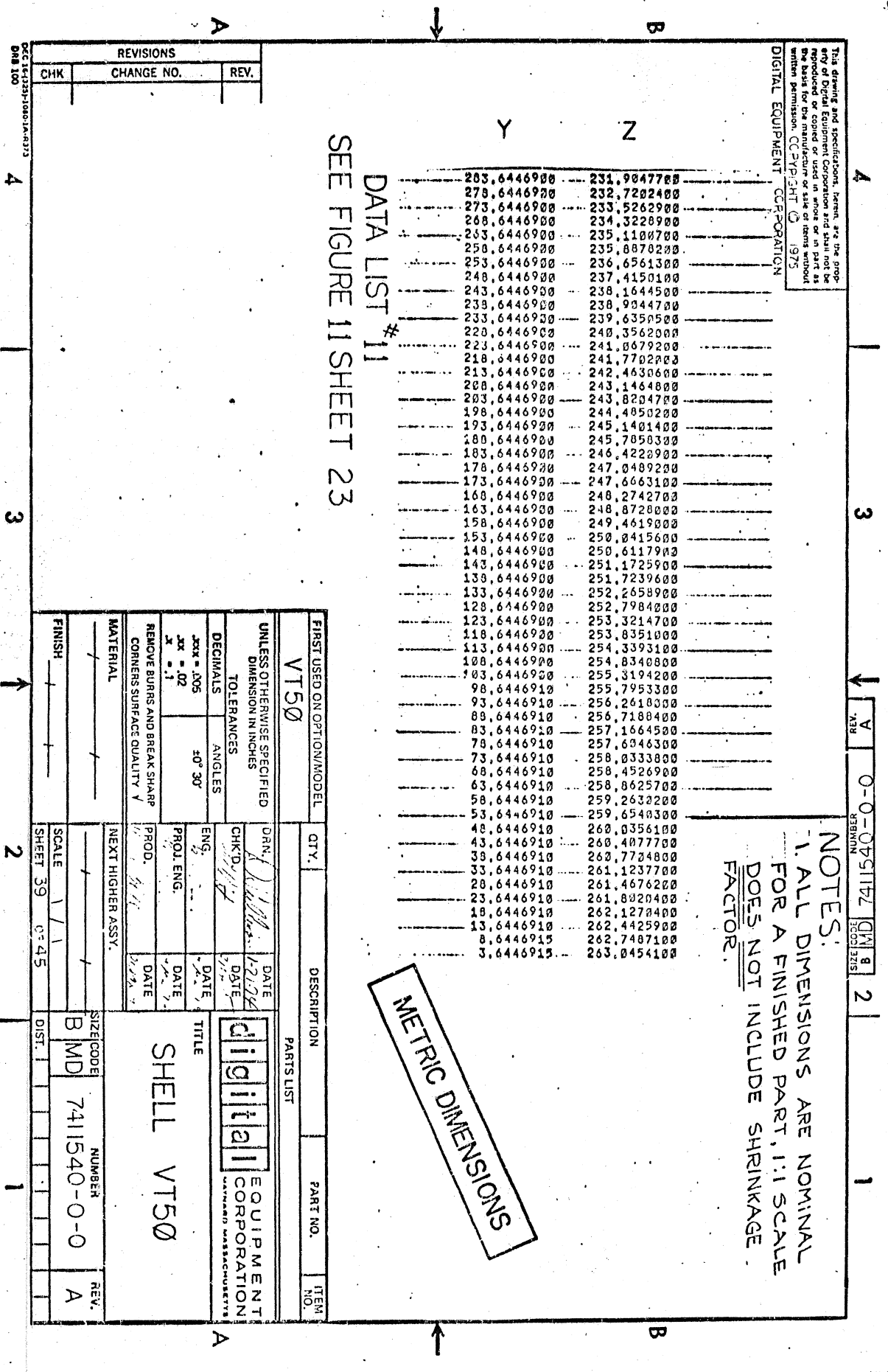
203,6446900	231,9047700
278,6446900	232,7202400
273,6446900	233,5262900
268,6446900	234,3228900
263,6446900	235,1100700
258,6446900	236,8070200
253,6446900	236,6561300
248,6446900	237,4150100
243,6446900	238,1644500
238,6446900	238,9044700
233,6446900	239,6350500
228,6446900	240,3562000
223,6446900	241,0079200
218,6446900	241,7702000
213,6446900	242,4630600
208,6446900	243,1464000
203,6446900	243,8024700
198,6446900	244,4050200
193,6446900	245,1401400
188,6446900	245,7050300
183,6446900	246,4220900
178,6446900	247,0409200
173,6446900	247,6663100
168,6446900	248,2742700
163,6446900	248,8720000
158,6446900	249,4619000
153,6446900	250,0415600
148,6446900	250,6117900
143,6446900	251,1725500
138,6446900	251,7239600
133,6446900	252,2658900
128,6446900	252,7984000
123,6446900	253,3214700
118,6446900	253,8351000
113,6446900	254,3393100
108,6446900	254,8340800
103,6446900	255,3194200
98,6446910	255,7953300
93,6446910	256,2610000
88,6446910	256,7180400
83,6446910	257,1664500
78,6446910	257,6046300
73,6446910	258,0333000
68,6446910	258,4526900
63,6446910	258,8625700
58,6446910	259,2630200
53,6446910	259,6540300
48,6446910	260,0356100
43,6446910	260,4077000
38,6446910	260,7704000
33,6446910	261,1237000
28,6446910	261,4676200
23,6446910	261,8020400
18,6446910	262,1270400
13,6446910	262,4425900
8,6446910	262,7487100
3,6446910	263,0454100

NOTES:  
1. ALL DIMENSIONS ARE NOMINAL FOR A FINISHED PART, 1:1 SCALE DOES NOT INCLUDE SHRINKAGE FACTOR.

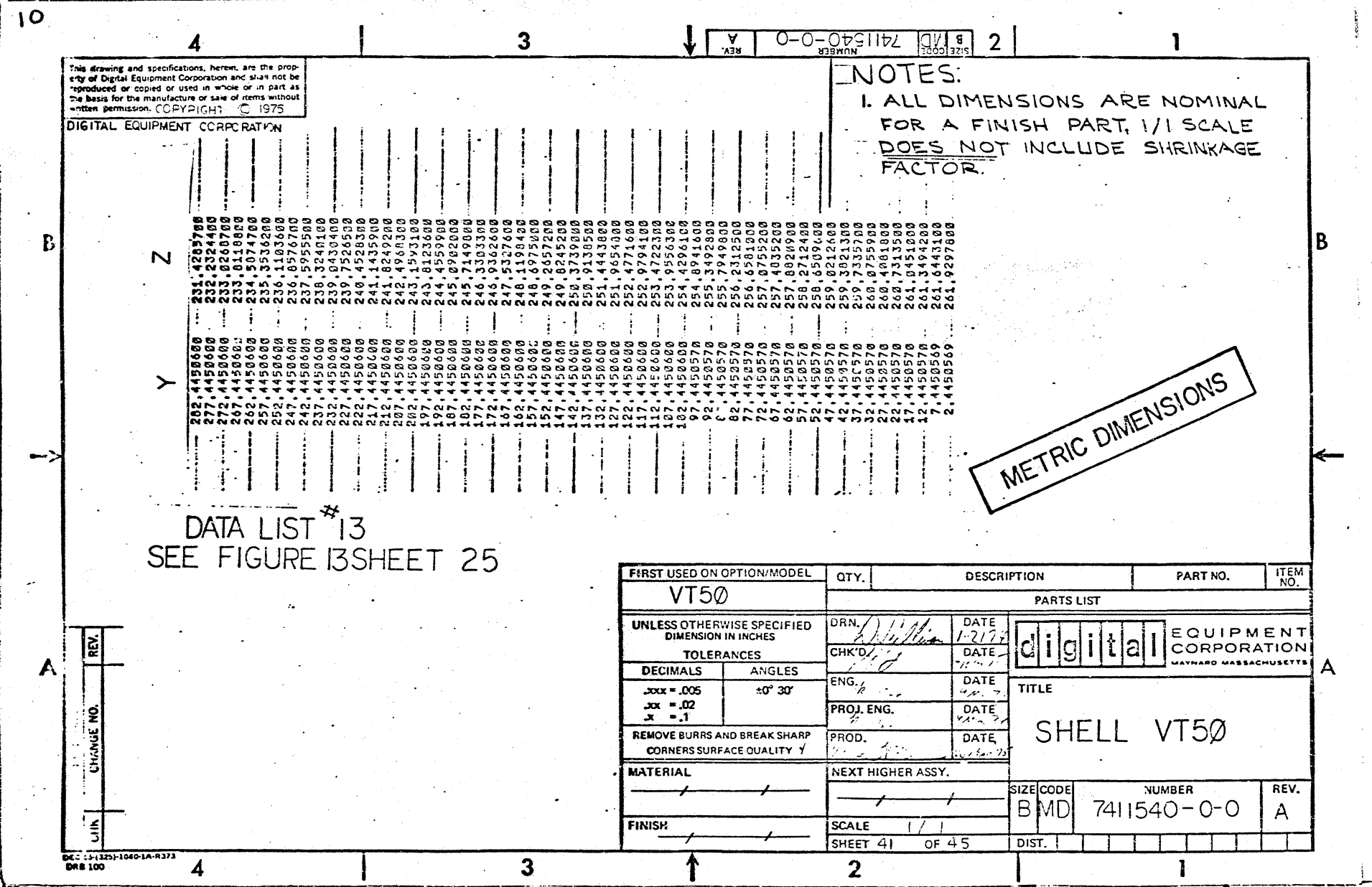
METRIC DIMENSIONS

REVISIONS		FIRST USED ON OPTION/MODEL		DESCRIPTION		PART NO.		ITEM NO.	
CHK	CHANGE NO.	REV.	VT50	PARTS LIST					
			UNLESS OTHERWISE SPECIFIED	DATE		DATE		DATE	
			DIMENSION IN INCHES	CHK'D	DATE	DATE	DATE	DATE	DATE
			TOLERANCES	ENG.	DATE	DATE	DATE	DATE	DATE
			DECIMALS	PROJ. ENG.	DATE	DATE	DATE	DATE	DATE
			ANGLES	PROD.	DATE	DATE	DATE	DATE	DATE
			± .005	NEXT HIGHER ASSY.		TITLE		SHELL VT50	
			± .02	SCALE		SIZE CODE		NUMBER	
			± .1	SHEET 39		B MD		7411540-0-0	
			REMOVE BURS AND BREAK SHARP CORNERS SURFACE QUALITY Y	0-45		DIST.		REV.	
			MATERIAL					A	
			FINISH						

DWG 100  
DEC 16-1975-10001A-032







This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission. COPYRIGHT © 1976

DIGITAL EQUIPMENT CORPORATION

NOTES:  
1. ALL DIMENSIONS ARE NOMINAL  
FOR A FINISH PART, 1:1 SCALE  
DOES NOT INCLUDE SHRINKAGE  
FACTOR.

Y	Z
201.7161200	231.6474800
276.7161200	231.6410000
271.7161200	232.6286000
266.7161200	233.4928300
261.7161200	234.1688000
256.7161200	234.9245400
251.7161200	235.6716600
246.7161200	236.4093600
241.7161200	237.1376400
236.7161200	237.8565300
231.7161200	238.5659400
226.7161200	239.2657000
221.7161200	239.9557000
216.7161200	240.6376000
211.7161200	241.3095200
206.7161200	241.9718700
201.7161200	242.6247900
196.7161200	243.2683000
191.7161200	243.9023000
186.7161200	244.5270500
181.7161200	245.1430000
176.7161200	245.7483300
171.7161200	246.3495300
166.7161200	246.9352000
161.7161200	247.5096900
156.7161200	248.0772400
151.7161200	248.6359700
146.7161200	249.1852000
141.7161200	249.7251700
136.7161200	250.2556400
131.7161200	250.7670000
126.7161200	251.2583300
121.7161200	251.7294000
116.7161200	252.1833000
111.7161200	252.6207100
106.7161200	253.0466000
101.7161200	253.4552000
96.7161100	253.8501000
91.7161100	254.2328000
86.7161100	254.6061000
81.7161100	254.9714000
76.7161100	255.3298000
71.7161100	255.6819000
66.7161100	256.0287000
61.7161100	256.3737000
56.7161100	256.7083000
51.7161100	257.0347000
46.7161100	257.3539000
41.7161100	257.6669000
36.7161100	257.9733000
31.7161100	258.2733000
26.7161100	258.5669000
21.7161100	258.8569000
16.7161100	259.1428000
11.7161100	259.4257000
6.7161100	259.7057000

DATA LIST #14  
SEE FIGURE 14 SHEET 26

METRIC DIMENSIONS

REV.	
CHANGE NO.	
CHK	

FIRST USED OR OPTION/MODEL VT50	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES				
TOLERANCES				
DECIMALS	ANGLES			
.XXX = .005	±0° 30'			
.XX = .02				
.X = .1				
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY V				
MATERIAL	NEXT HIGHER ASSY.			
FINISH	SCALE			
	SHEET 42 OF 45			
PARTS LIST		digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
TITLE SHELL VT50				
SIZE CODE	NUMBER	REV.		
B MD	7411540-0-0	A		
DIST.				

DEC 16 (325) 1030-1A-R373  
DRS 100

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission. COPYRIGHT © 1975 DIGITAL EQUIPMENT CORPORATION

QTY.	DESCRIPTION	PART NO.	ITEM NO.
288	9011000	230,5714300	
275	9011000	231,3535100	
278	9011000	232,1261900	
265	9011000	232,8894500	
268	9011000	233,6433000	
255	9011000	234,3877300	
258	9011000	235,1227600	
245	9011000	235,8483700	
240	9011000	236,5645700	
235	9011000	237,2713600	
232	9011000	237,9687300	
225	9011000	238,6566900	
228	9011000	239,3352400	
215	9011000	240,0843800	
218	9011000	240,6641000	
288	9011000	241,3144100	
200	9011000	241,9553100	
195	9011000	242,5868000	
190	9011000	243,2088700	
185	9011000	243,8215400	
180	9011000	244,4247900	
175	9011000	245,0186200	
178	9011000	245,6030500	
165	9011000	246,1780600	
160	9011000	246,7436600	
155	9011000	247,2998500	
158	9011000	247,8466200	
145	9011000	248,3839900	
148	9011000	248,9119400	
135	9011000	249,4384700	
138	9011000	249,9396000	
125	9011000	250,4593100	
128	9011000	250,9296100	
115	9011000	251,4105000	
118	9011000	251,8819000	
105	9011000	252,3447400	
108	9011000	252,7966900	
95	9010960	253,2399300	
98	9010960	253,6737500	
85	9010960	254,0981700	
88	9010960	254,5131700	
75	9010960	254,9187600	
78	9010960	255,3149300	
65	9010960	255,7017000	
68	9010960	256,0793500	
55	9010960	256,4469900	
58	9010960	256,8055200	
45	9010960	257,1546300	
48	9010960	257,4943300	
35	9010960	257,8246200	
38	9010960	258,1454900	
25	9010960	258,4569600	
28	9010960	258,7590100	
15	9010960	259,0516500	
18	9010960	259,3348800	
5	9010960	259,6086900	
8	9010960	259,8730900	

DATA LIST #15  
SEE FIGURE 15 SHEET 27

NOTES:  
1. ALL DIMENSIONS ARE NOMINAL FOR A FINISH PART, 1:1 SCALE DOES NOT INCLUDE SHRINKAGE FACTOR.

METRIC DIMENSIONS

REVISIONS		REV.
CHK	CHANGE NO.	

FIRST USED ON OPTION/MODEL	VT50
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	
DECIMALS	TOI FRANCES
ANGLES	±0° 30'
REMOVE BURNS AND BREAK SHARP CORNERS SURFACE QUALITY	Y
NEXT HIGHER ASSY.	
SCALE	SHEET 43 OF 45

DATE	DATE	DATE	DATE	DATE	DATE

DRN.		DATE	
CHK'D.		DATE	
ENG.		DATE	
PROJ. ENG.		DATE	
PROD.		DATE	

TITLE	SHELL VT50
PARTS LIST	
DESCRIPTION	
QTY.	

DIST.	B MD	NUMBER	7411540-0-0	REV.	A
-------	------	--------	-------------	------	---

DEC 14 1975 (10:45 AM) 100  
DME 100



13

4

3

REV. A 0-0-0 7411540-0-0 B MD 1003 2

1

This drawing and its dimensions, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission. COPYRIGHT © 1975

DIGITAL EQUIPMENT CORPORATION

NOTES:  
1. ALL DIMENSIONS ARE NOMINAL FOR A FINISHED PART, 1:1 SCALE DOES NOT INCLUDE SHRINKAGE FACTOR.

Z	Y
230.000000	288.000000
230.767300	275.000000
231.523350	270.000000
232.279200	265.000000
233.035050	260.000000
233.790900	255.000000
234.546750	250.000000
235.302600	245.000000
236.058450	240.000000
236.814300	235.000000
237.570150	230.000000
238.326000	225.000000
239.081850	220.000000
239.837700	215.000000
240.593550	210.000000
241.349400	205.000000
242.105250	200.000000
242.861100	195.000000
243.616950	190.000000
244.372800	185.000000
245.128650	180.000000
245.884500	175.000000
246.640350	170.000000
247.396200	165.000000
248.152050	160.000000
248.907900	155.000000
249.663750	150.000000
250.419600	145.000000
251.175450	140.000000
251.931300	135.000000
252.687150	130.000000
253.443000	125.000000
254.198850	120.000000
254.954700	115.000000
255.710550	110.000000
256.466400	105.000000
257.222250	100.000000
257.978100	95.000000
258.733950	90.000000
259.489800	85.000000
260.245650	80.000000
261.001500	75.000000
261.757350	70.000000
262.513200	65.000000
263.269050	60.000000
264.024900	55.000000
264.780750	50.000000
265.536600	45.000000
266.292450	40.000000
267.048300	35.000000
267.804150	30.000000
268.560000	25.000000
269.315850	20.000000
270.071700	15.000000
270.827550	10.000000
271.583400	5.000000
272.339250	0.000000

DATA LIST #16  
SEE FIGURE 16 SHEET 28

METRIC DIMENSIONS

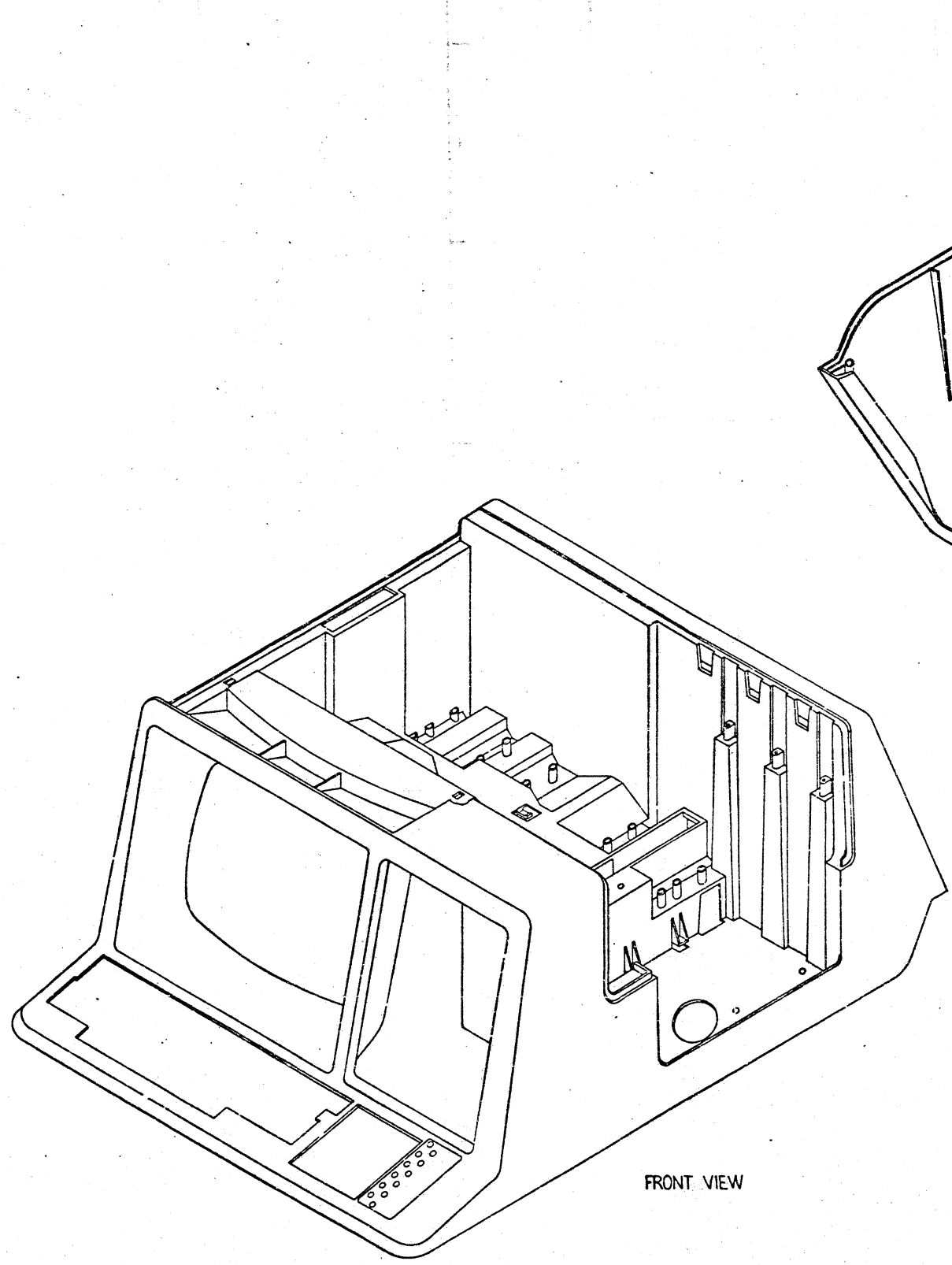
REV.
CHANGE NO.
CHK

FIRST USED ON OPTION/MODEL VT50	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN. <i>D. Williams</i>	DATE <i>1-21-77</i>	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
TOLERANCES	CHK'D. <i>W.A.</i>	DATE <i>1/21/77</i>	TITLE	
DECIMALS	ENG. <i>A</i>	DATE <i>1/21/77</i>	SHELL VT50	
.xxx = .005	PROJ. ENG. <i>A</i>	DATE <i>1/21/77</i>	MATERIAL	
.xx = .02	PROD. <i>A</i>	DATE <i>1/21/77</i>	NEXT HIGHER ASSY.	
.x = .1	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY $\sqrt{\quad}$		SIZE CODE	NUMBER
			B MD	7411540-0-0
FINISH	SCALE	SHEET 44	REV.	A
		of 45		

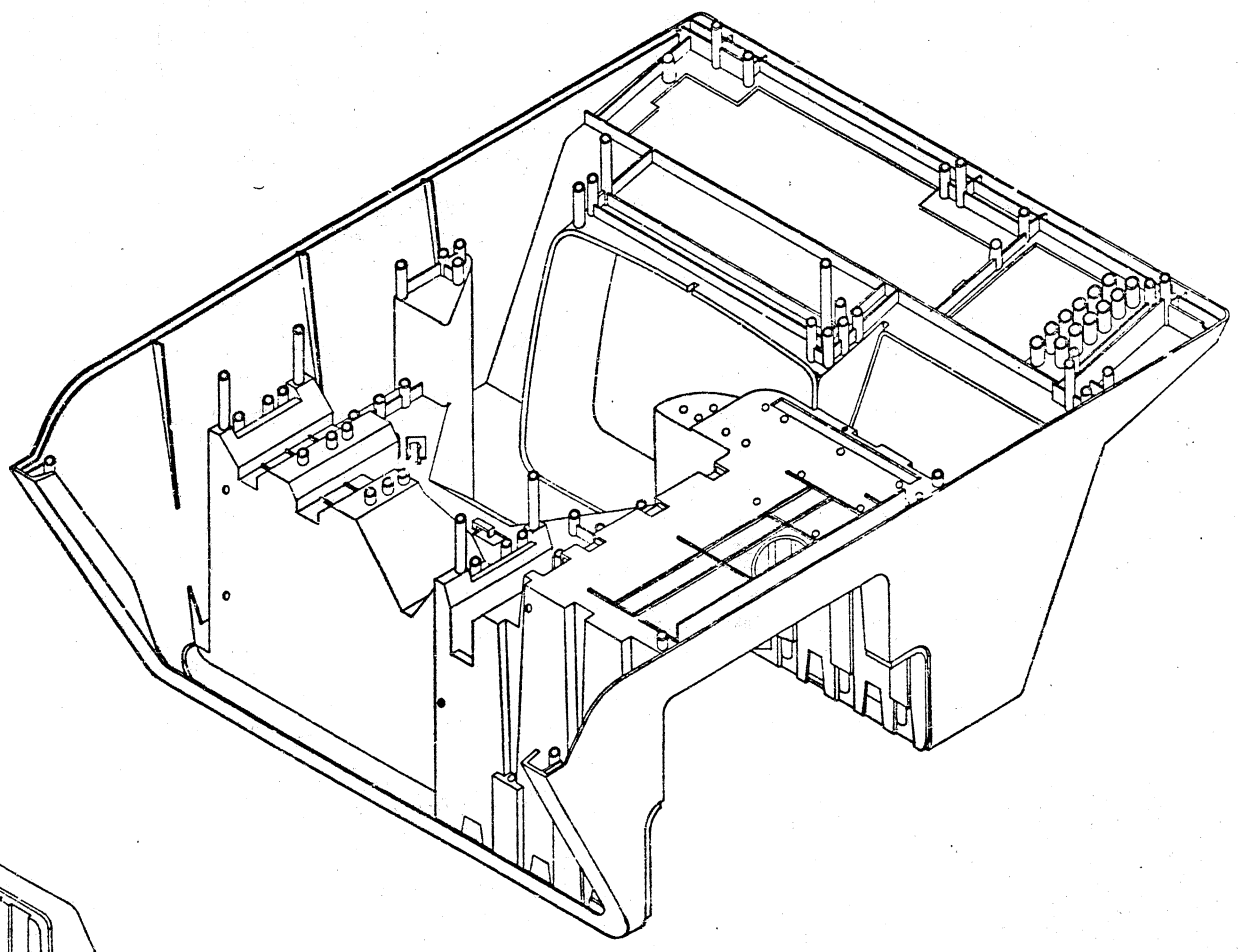
DWG 16(325) 1040-1A-R373  
DAB 100



THIS DRAWING AND SPECIFICATIONS DEFINE THE  
 PROPERTY OF THE U.S. GOVERNMENT AND SHALL  
 NOT BE REPRODUCED OR PUBLISHED IN WHOLE OR IN  
 PART WITHOUT WRITTEN PERMISSION OF THE  
 SECRETARY OF THE ARMY, WASHINGTON, D.C.



FRONT VIEW



BOTTOM REAR VIEW

REVISIONS		
DATE	CHANGE NO.	REV.

TITLE	SHELL VT50	SIZE	CODE	NUMBER	REV.
SCALE	NONE	SHEET	45	OF 45	1
		DIST.			

SHELL VT50 7411540-0-0 A

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

<b>DIGITAL EQUIPMENT CORPORATION</b> MAYNARD, MASSACHUSETTS						
<b>INCOMING INSPECTION PROCEDURE</b>				DATE <b>30 JUN 75</b>		
TITLE		VT50 Shell				
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
•	Original Release		C. Hillard <i>C. Hillard</i>	6/30/75 <i>6/30/75</i>	<i>Tom Brown</i>	7-4-75
ENG <i>C. Hillard</i>		APPD <i>Tom Brown</i>		SIZE <b>A</b>	CODE <b>II</b>	NUMBER <b>74-11540-0-0</b>
				SHEET <b>1</b> OF <b>2</b>		

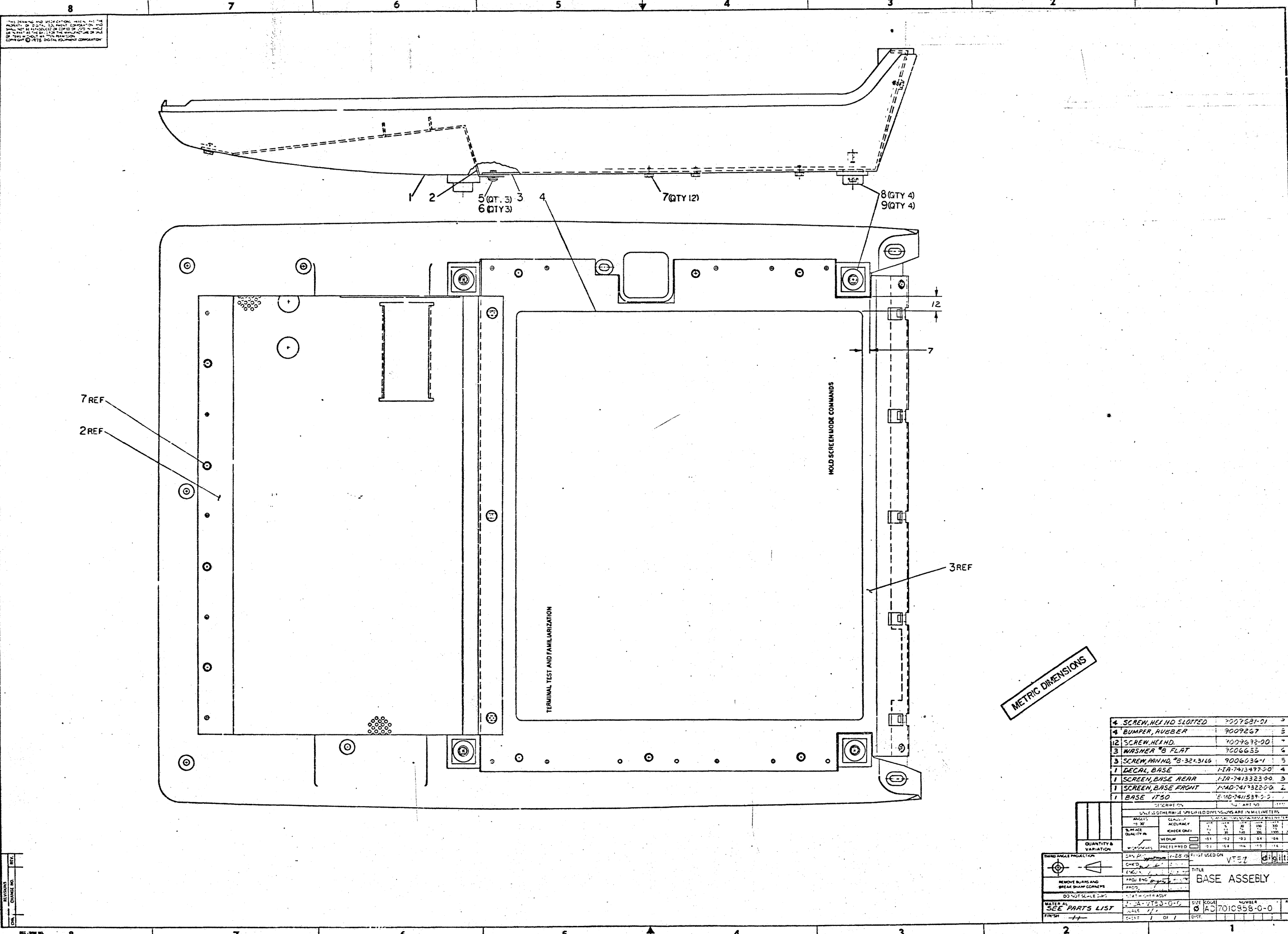
DEC 3-(49)-1283-N670

SHEET 1 OF 2

<b>INSPECTION PROCEDURE</b> CONTINUATION SHEET																			
TITLE		VT50 Shell																	
<p>1.0 Inspection by attributes.</p> <p>1.1 All other dimensions and/or characteristics pertaining to 7411540 that are not listed must be inspected on 20% of the sample size from each lot. All defects must be listed and inspected on the entire A.Q.L. sample. Parts must conform completely to print.</p> <p>1.2 Applicable document DEC metals quality manual.</p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left; border: none;">2.0 CHARACTERISTICS</th> <th style="text-align: left; border: none;">PROCEDURE</th> </tr> </thead> <tbody> <tr> <td style="border: none;">2.1 Check location of the front bosses (keyboard)</td> <td style="border: none;">Use fixture #94-2155-3</td> </tr> <tr> <td style="border: none;">2.2 Check location of the front processor board bosses</td> <td style="border: none;">Use fixture #94-2152-3</td> </tr> <tr> <td style="border: none;">2.3 Check location of the rear processor board bosses</td> <td style="border: none;">Use fixture #94-2156-3</td> </tr> <tr> <td style="border: none;">2.4 Size of holes in bosses</td> <td style="border: none;">Plug gage/vernier cal.</td> </tr> <tr> <td style="border: none;">2.5 Mat. thickness</td> <td style="border: none;">Vernier calipers</td> </tr> <tr> <td style="border: none;">2.6 Keyboard opening and location</td> <td style="border: none;">vernier calipers</td> </tr> <tr> <td style="border: none;">2.7 Workmanship</td> <td style="border: none;">Visually inspect for: 2.7.1 sink in material 2.7.2 flashing/scratches 2.7.3 color and texture 2.7.4 filled holes</td> </tr> </tbody> </table>				2.0 CHARACTERISTICS	PROCEDURE	2.1 Check location of the front bosses (keyboard)	Use fixture #94-2155-3	2.2 Check location of the front processor board bosses	Use fixture #94-2152-3	2.3 Check location of the rear processor board bosses	Use fixture #94-2156-3	2.4 Size of holes in bosses	Plug gage/vernier cal.	2.5 Mat. thickness	Vernier calipers	2.6 Keyboard opening and location	vernier calipers	2.7 Workmanship	Visually inspect for: 2.7.1 sink in material 2.7.2 flashing/scratches 2.7.3 color and texture 2.7.4 filled holes
2.0 CHARACTERISTICS	PROCEDURE																		
2.1 Check location of the front bosses (keyboard)	Use fixture #94-2155-3																		
2.2 Check location of the front processor board bosses	Use fixture #94-2152-3																		
2.3 Check location of the rear processor board bosses	Use fixture #94-2156-3																		
2.4 Size of holes in bosses	Plug gage/vernier cal.																		
2.5 Mat. thickness	Vernier calipers																		
2.6 Keyboard opening and location	vernier calipers																		
2.7 Workmanship	Visually inspect for: 2.7.1 sink in material 2.7.2 flashing/scratches 2.7.3 color and texture 2.7.4 filled holes																		
		SIZE <b>A</b>	CODE <b>II</b>																
		NUMBER <b>7411540-0-0</b>	REV																
		SHEET <b>2</b> OF <b>2</b>																	

DEC 3-(332)-1283-1A-R175

SHEET 2 OF 2



THIS DRAWING AND SPECIFICATION, HEREIN, IS THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION. IT IS TO BE USED ONLY FOR THE MANUFACTURE OF THE EQUIPMENT SPECIFIED HEREIN. IT IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF DIGITAL EQUIPMENT CORPORATION.

QTY	DESCRIPTION	PART NO.	REV.
4	SCREW, HEX HD SLOTTED	9007281-01	1
4	BUMPER, RUBBER	9009227	1
12	SCREW, HEX HD.	9009672-00	7
3	WASHER, B FLAT	9006653	4
3	SCREW, PAN HD, #8-32x3/16	9006634-1	5
1	DECAL, BASE	11A-7413497-00	4
1	SCREEN, BASE REAR	11A-7413323-00	3
1	SCREEN, BASE FRONT	11A-7413322-00	2
1	BASE VT50	11A-741539-2-0	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS

QUANTITY VARIATION	SYNOPSIS	DATE	BY
REMOVE BURRS AND BREAK SHARP CORNERS	CHKD	11-28-74	VT50
DO NOT SCALE DIMS	PROJ ENG		
	PROJ		

MATERIAL: SEE PARTS LIST  
FINISH: --

SIZE: 11A-VT50-0-0  
SCALE: 1:1  
SHEET: 1 OF 1

TITLE: BASE ASSEMBLY  
NUMBER: 701C858-0-0  
REV: 1

REVISIONS  
NO. DATE BY  
1 11-28-74 JTB

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

<b>DIGITAL EQUIPMENT CORPORATION</b> MAYNARD, MASSACHUSETTS						
<b>INGOMING INSPECTION PROCEDURE</b>					DATE <u>6/30/75</u>	
TITLE VT50 Base						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
*	Original Release		C. Hillard <i>C. Hillard</i>	6/30	<i>[Signature]</i>	7-1-75
ENG	APPD	SIZE	CODE	NUMBER	REV	
<i>[Signature]</i>	<i>[Signature]</i>	A	II	7411539-0-0		

DEC 9-(491)-1283-N670

SHEET 1 OF 2

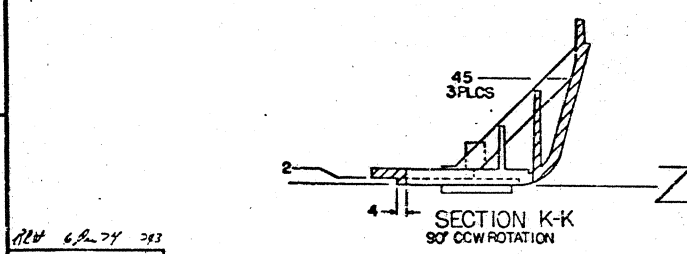
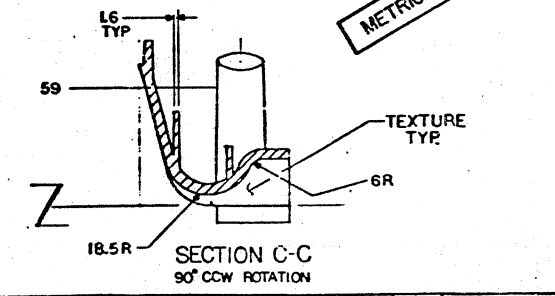
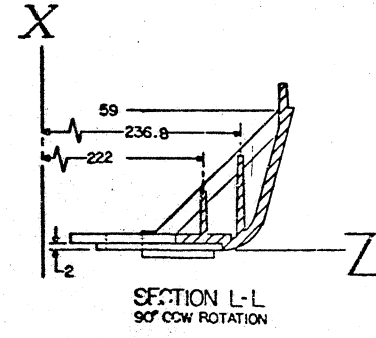
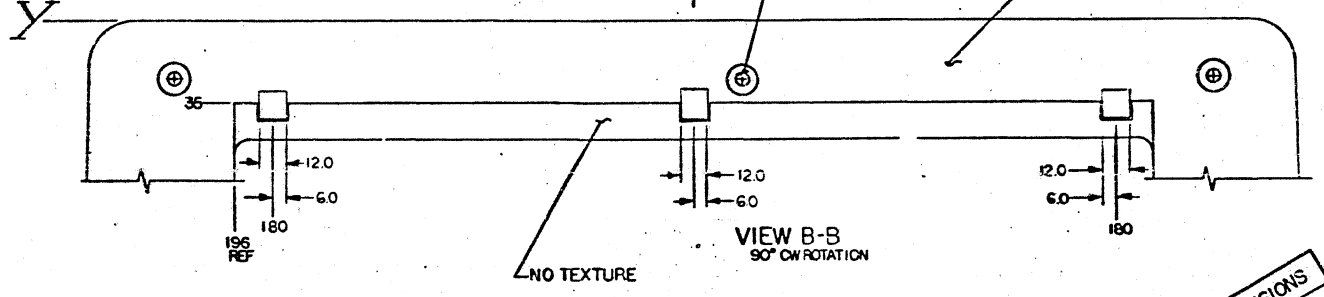
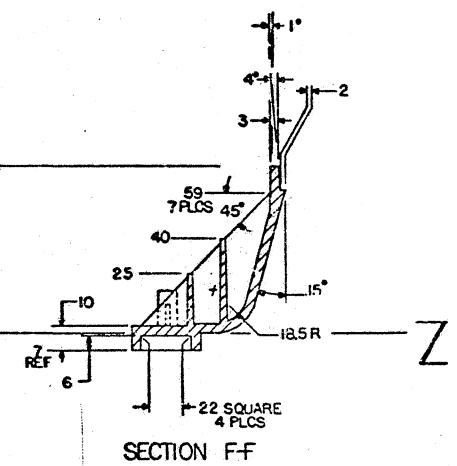
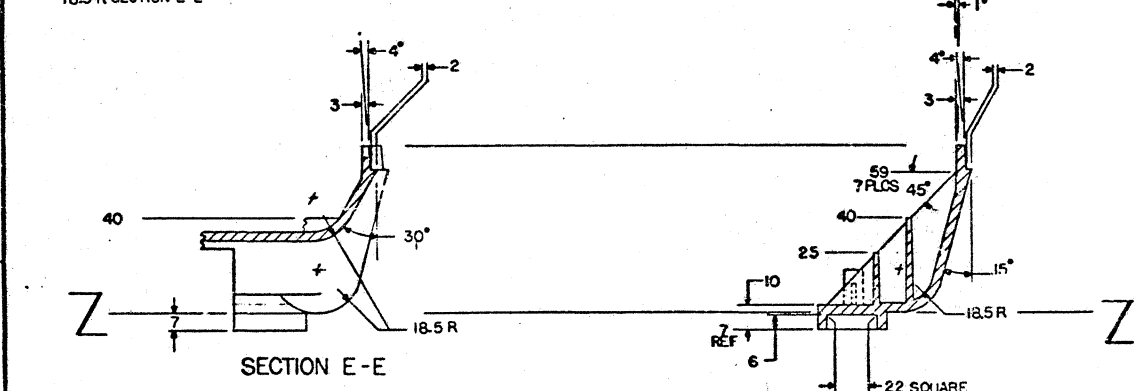
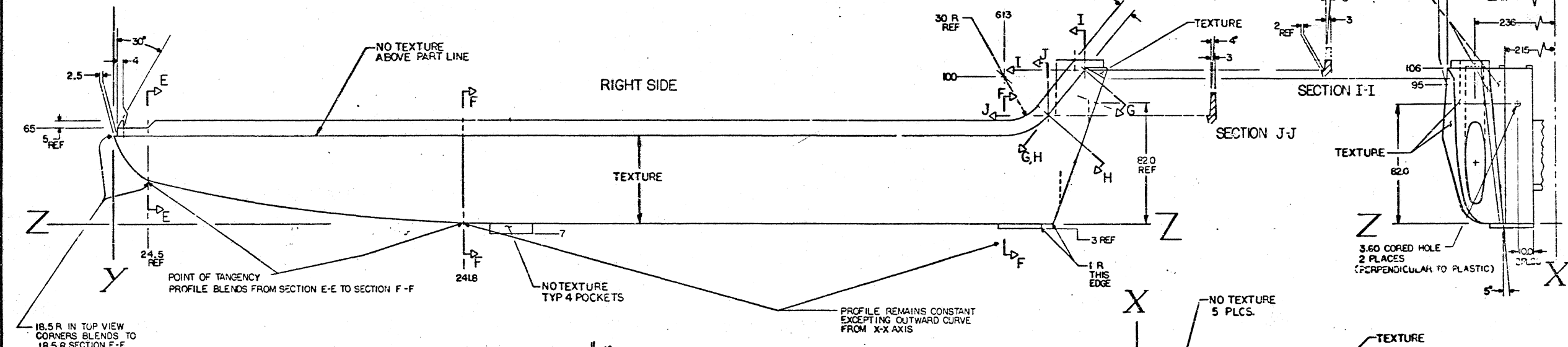
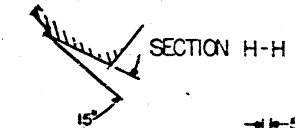
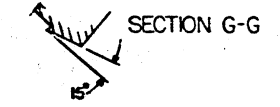
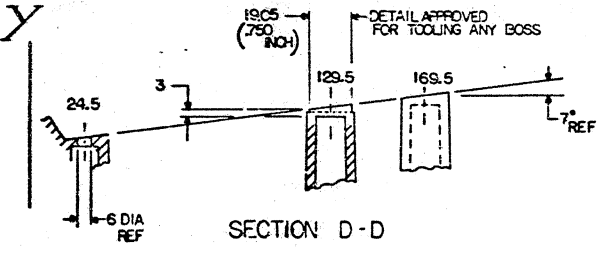
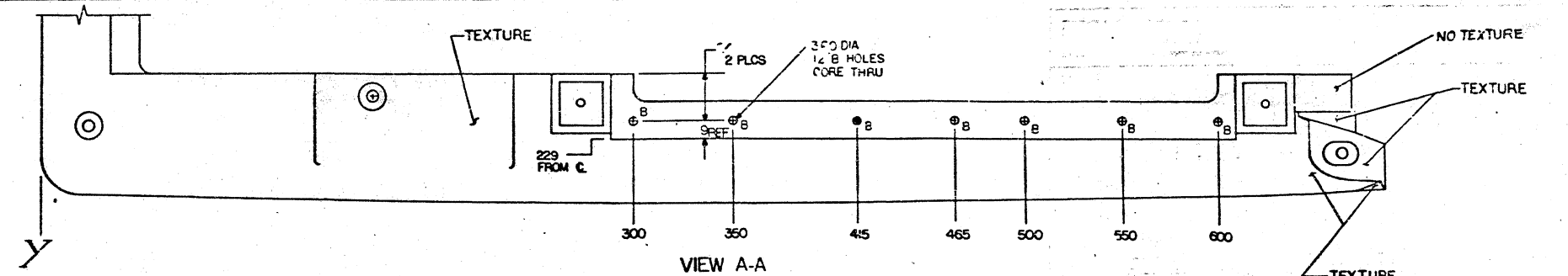
<b>INSPECTION PROCEDURE</b>				CONTINUATION SHEET																		
TITLE VT50 Base																						
<p>1.0 Inspection by attributes.</p> <p>1.1 All other dimensions and/or characteristics pertaining to 7411539 that are not listed must be inspected on 20% of the sample size from each lot. All defects must be listed and inspected on the entire A.Q.L. sample. Parts must conform completely to print.</p> <p>1.2 Applicable document DEC metals quality manual.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center;"><u>CHARACTERISTICS</u></td> <td style="width: 50%; text-align: center;"><u>PROCEDURE</u></td> </tr> <tr> <td>2.1 Check location of holes</td> <td>Use fixture #94-02146-3</td> </tr> <tr> <td>2.2 Check holes sizes</td> <td>Vernier calipers/plug gages</td> </tr> <tr> <td>2.3 Material thickness</td> <td>Vernier calipers</td> </tr> <tr> <td>2.4 Workmanship</td> <td>Visually inspect for:</td> </tr> <tr> <td></td> <td>2.4-1 sink in material</td> </tr> <tr> <td></td> <td>2.4-2 flashing / scratches</td> </tr> <tr> <td></td> <td>2.4-3 color and texture</td> </tr> <tr> <td></td> <td>2.4-4 filled bosses</td> </tr> </table>					<u>CHARACTERISTICS</u>	<u>PROCEDURE</u>	2.1 Check location of holes	Use fixture #94-02146-3	2.2 Check holes sizes	Vernier calipers/plug gages	2.3 Material thickness	Vernier calipers	2.4 Workmanship	Visually inspect for:		2.4-1 sink in material		2.4-2 flashing / scratches		2.4-3 color and texture		2.4-4 filled bosses
<u>CHARACTERISTICS</u>	<u>PROCEDURE</u>																					
2.1 Check location of holes	Use fixture #94-02146-3																					
2.2 Check holes sizes	Vernier calipers/plug gages																					
2.3 Material thickness	Vernier calipers																					
2.4 Workmanship	Visually inspect for:																					
	2.4-1 sink in material																					
	2.4-2 flashing / scratches																					
	2.4-3 color and texture																					
	2.4-4 filled bosses																					
SIZE	CODE	NUMBER	REV																			
A	II	74 11539-0-0																				

DEC 9-(432)-1283-1A-R175

SHEET 2 OF 2

THIS DRAWING AND SPECIFICATIONS HEREON ARE THE PROPERTY OF E.I. du PONT DE NEMOURS AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF E.I. du PONT DE NEMOURS AND SHALL BE RETURNED TO THE COMPANY UPON REQUEST.

- NOTES:**
1. BASE IS SYMMETRIC ABOUT THE X-X AXIS EXCEPT FOR THE FOLLOWING:
    - A. NOTCH AT 418.5
    - B. BOSS AT 129.5, 222
    - C. BOSS AT 400, 222
    - D. BOSS AT 169.5, 217
  2. DRAFT TO BE 1°
  3. ALL DIMENSIONS ARE MILLIMETERS
  4. TOLERANCE TO BE:
    - ±.1mm FIRST 25mm
    - ±.02mm PER ADDITIONAL 10mm (1cm)
  5. NOMINAL WALL THICKNESS TO BE 4mm (0.156 inch)
  6. CORNERS ARE SHOWN SHARP FOR DRAFTING ONLY, THE FOLLOWING RADII ARE ALLOWABLE FOR TOOLING:
    - A. FILLETS & ROUNDS OF BOSSES & RIBS: 0.5R
    - B. EXTERNAL APPEARANCE SURFACES: 0.5/0.8R UNLESS SPECIFIED OTHERWISE.
  7. TEXTURE TO BE APPLIED WHERE SPECIFIED ON EXTERIOR OF PART ONLY.
  8. NO TEXTURE ANY INTERIOR SURFACES
  9. TEXTURE TO BE AKRON METALS #E.496
  10. MATL TO BE GENERAL ELECTRIC NORYL #SE-100-7385.



REV. 6.2.74 253

REV.	CHANGE NO.	REV.

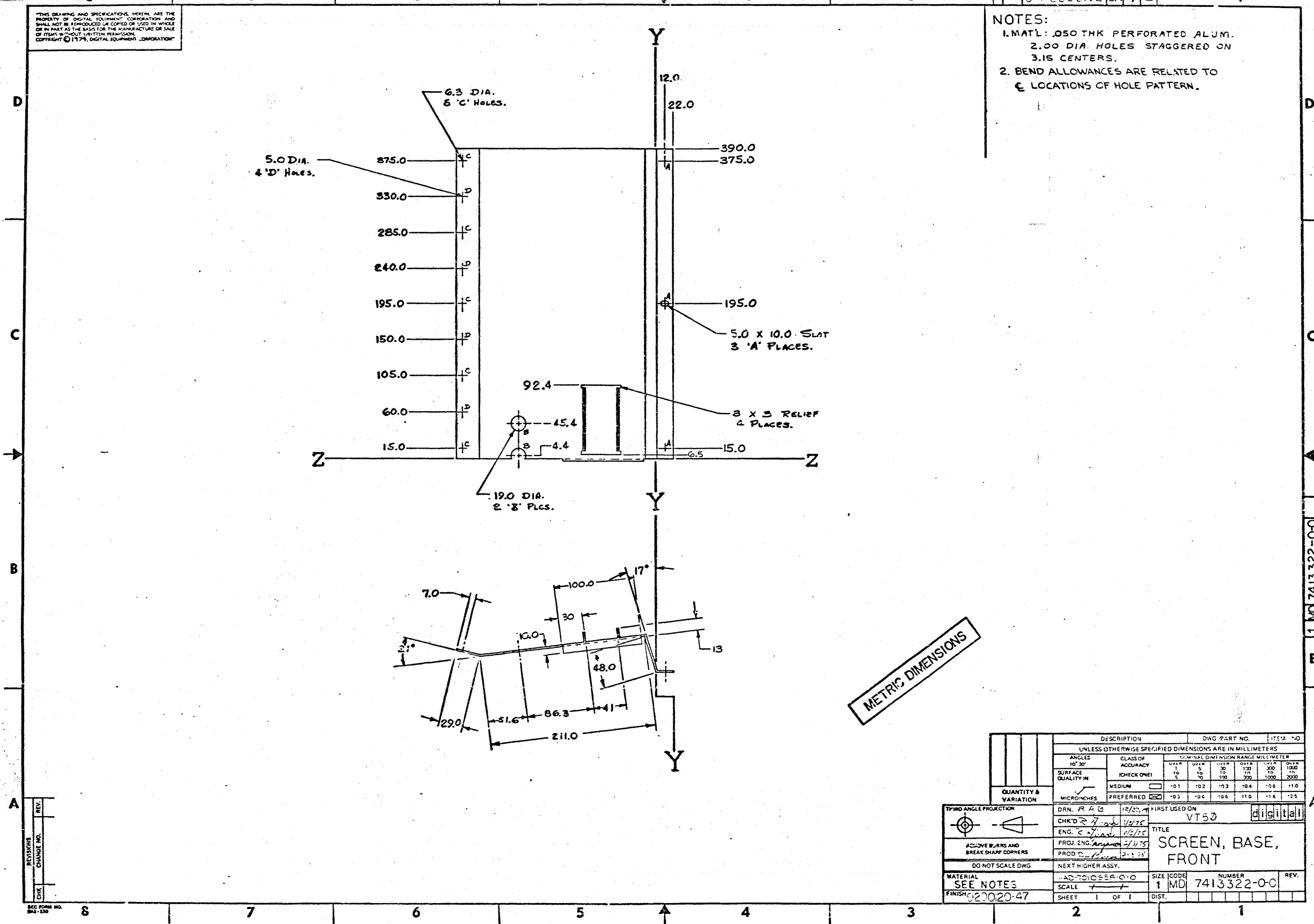
TITLE	BASE VT50	REVISION	E-I-D 7411539-0-0	REV.	A
SCALE	1/1	SHEET	2 OF 2	DIST.	

7411539-0-0  
 E-I-D  
 7411539-0-0

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975, DIGITAL EQUIPMENT CORPORATION

NOTES:

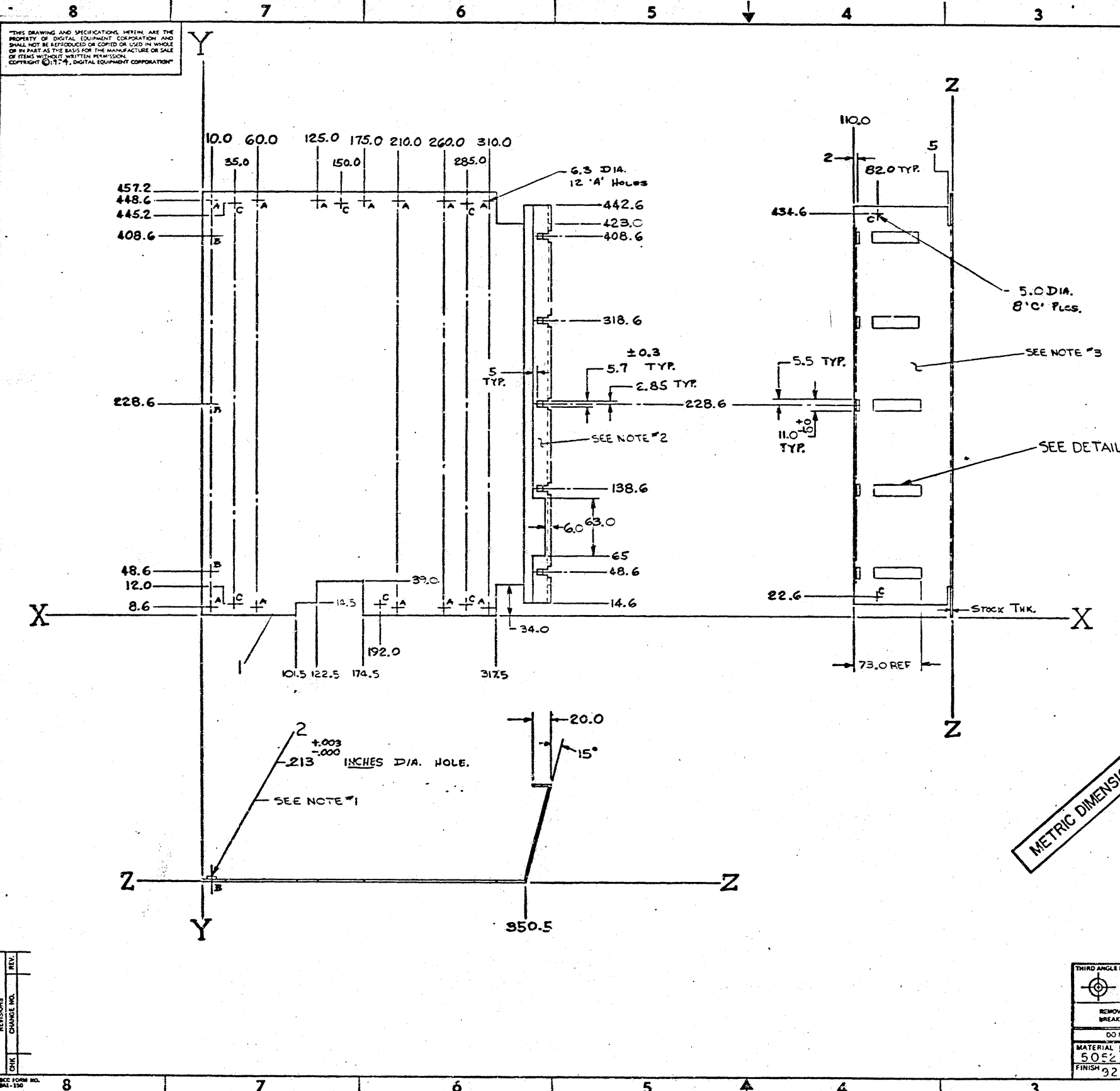
1. MATL: .050 THK PERFORATED ALUM.  
2.00 DIA HOLES STAGGERED ON 3.15 CENTERS.
2. BEND ALLOWANCES ARE RELATED TO  $\epsilon$  LOCATIONS OF HOLE PATTERN.



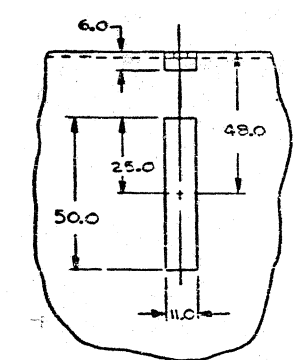
REV.	
CHG	
CHK	
SEC FORM NO.	100

QUANTITY & VARIATION	DRN. R A B 12/25/75	FIRST USED ON	VT50
CHK'D R J 1/25/75	ENG. C J 1/25/75	PROD. S J 1/25/75	
REMOVE BURRS AND BREAK SHARP CORNERS	DO NOT SCALE DWG	NEXT HIGHER ASSY.	
MATERIAL SEE NOTES	SCALE 1	SIZE CODE 1	NUMBER 7413322-00
FINISH 020020-47	SHEET 1 OF 1	DIST.	

1 MD 7413322-00



NOTES:  
 1. INSTALL ITEM #2 INSERT 3' B' PLACES.  
 2. MASK 20 WIDE BEFORE PAINTING.  
 3. TEXTURE THIS SURFACE ONLY;  
 PAINT OTHER SURFACES FLAT.



DETAIL A  
 SCALE: 1/1  
 5 PLACES

METRIC DIMENSIONS

3	INSERT #6-32	9cc915c-3	2
1	SCREEN BASE, REAR		1
DESCRIPTION		ENG. PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS			
ANGLES	CLASS OF ACCURACY	TOLERANCE RANGE MILLIMETERS	
10°/25°		0.1	0.2
		0.3	0.4
		0.5	0.6
		0.7	0.8
		0.9	1.0
		1.1	1.2
		1.3	1.4
		1.5	1.6
		1.7	1.8
		1.9	2.0
SURFACE QUALITY IN	CHECK ONE		
	MEDIUM		
	PREFERRED		
QUANTITY & VARIATION	MICROINCHES		
THIRD ANGLE PROJECTION	ORN. H.A.F.	2,75, 74	FIRST USED ON
	CHK'D R	2/1/78	VT50
	ENG.	2/1/78	digital
	PROJ. ENG.	4/1/78	
	PROD.	3/3/78	
REMOVE BURRS AND BREAK SHARP CORNERS	NEXT HIGHER ASSY.		
DO NOT SCALE DWG			
MATERIAL 1.5(0.02)THK	100 701558-0-0	SIZE CODE	NUMBER
5052-H32		1	7413323-0-0
FINISH 92-00150-147	SCALE	SHEET	DIST.
		1 OF 1	

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974, DIGITAL EQUIPMENT CORPORATION

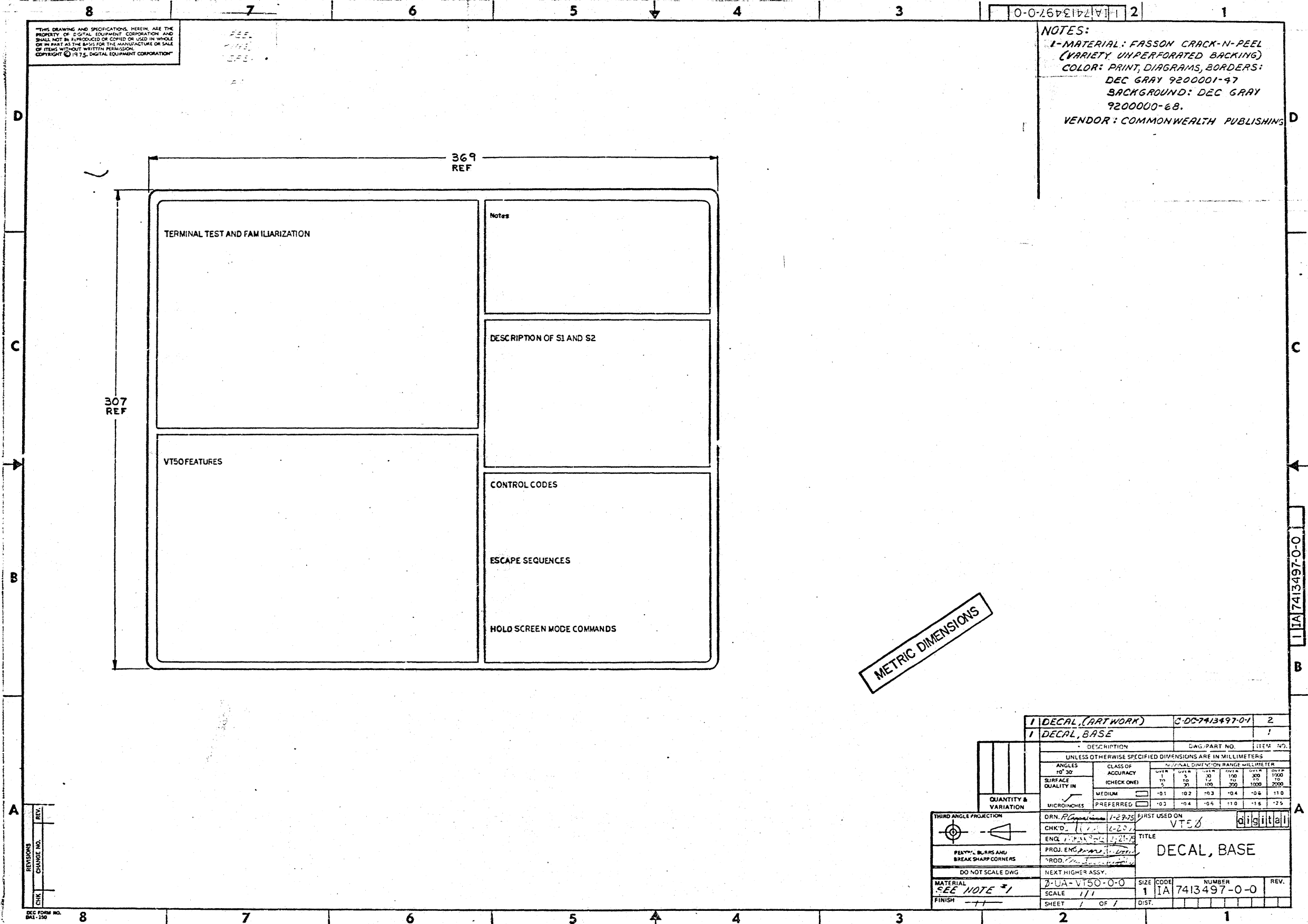
REV. FORM NO. 8-1-78  
 CHG. NO.  
 CHG.  
 REVISIONS

11A7413323-0-0

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975, DIGITAL EQUIPMENT CORPORATION

SEE  
PAGE  
OPS.

**NOTES:**  
 1-MATERIAL: FASSON CRACK-N-PEEL (VARIETY UNPERFORATED BACKING)  
 COLOR: PRINT, DIAGRAMS, BORDERS: DEC GRAY 9200001-97  
 BACKGROUND: DEC GRAY 9200000-68.  
 VENDOR: COMMONWEALTH PUBLISHING



REV.	
CHANGE NO.	
CHK	

1	DECAL, (ARTWORK)	C-DC-7413497-0-1	2
1	DECAL, BASE		1
DESCRIPTION		DWG. PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS			
ANGLES	CLASS OF ACCURACY	DIMENSIONAL RANGE (MILLIMETER)	
10° 30'	(CHECK ONE)	0-100	100-200
		100-200	200-500
		500-1000	1000-2000
SURFACE QUALITY	MEDIUM	-0.1	-0.2
	PREFERRED	-0.3	-0.4
		-0.5	-1.0
		-1.6	-2.5
QUANTITY & VARIATION	FIRST USED ON		
THIRD ANGLE PROJECTION	DRN. P. [Signature]	DATE 1-27-75	VTE 8
PERMIT: BARS AND BREAK SHARP CORNERS	CHK'D. [Signature]	DATE 1-27-75	digital
DO NOT SCALE DWG	ENGR. [Signature]	DATE 1-27-75	TITLE
MATERIAL	PROJ. ENG. [Signature]	DATE 1-27-75	DECAL, BASE
FINISH	NEXT HIGHER ASSY.	SIZE	CODE
		1	IA
		NUMBER	7413497-0-0
		SCALE	1/1
		SHEET	1 OF 1
		DIST.	

DEC FORM NO. 21-150



SHEET 1 OF 1		DIST. 1	
SCALE 1/1		REV. C	
NEXT HIGHER ASSY. 1-14-74/13294-0		NUMBER 7413497-0-1	
PROJ. ENG. [Signature]		TITLE BRSE DECAL	
CHK'D. [Signature]		FIRST USED ON	
DRN. [Signature]		SPEC # 9206101-47	
GMA7		DIGITAL	

REV.	CHANGE NO.	REVISIONS

### TERMINAL TEST AND FAMILIARIZATION

- 1. Check the Connections**  
Set the EIA/20 mA switch to the 20 mA position. Set switch S1 to position 1 and switch S2 to position C, as shown in the drawing at right.
- 2. Turn the Power On**  
The On/Off Switch is on the right side of the unit.
- 3. Wait for the Blinking Cursor**  
After approximately one minute, the cursor should appear at its home position - the upper left corner of the screen.
- 4. Adjust the Intensity Control**  
If the cursor fails to appear after one minute, the intensity control may be set too low. Similar to the brightness control on a television set, the intensity control is the sliding lever at the back of the unit.
- 5. Test the VT50 features described below, and make sure the control codes and Escape Sequences function properly.**
- 6. Connect the VT50 to the Host**  
Use the connector which is attached to the terminal strip to plug the VT50 into an input-output socket of the host computer. Switches S1 and S2 must now be changed so that data entered through the keyboard goes to the computer rather than the screen. Whether the features of the VT50, such as control codes and Escape Sequences, work properly now depends on whether the computer sends back to the screen the information you have typed to it. Switches S1 and S2 must be set so that the transmitting and receiving speed of the VT50 matches that of the host.

### VT50 FEATURES

**Input and the Cursor**  
The cursor underlines the position where the next character displayed on the screen will appear. After a character (or space) is displayed, the cursor moves one character position to the right. Type several displayable characters and observe this cursor movement.

Slowly type additional characters to form a longer line; when the 73rd character is displayed, a buzzer sounds. This buzzer serves the same function as a typewriter bell by alerting the operator to the right margin. The maximum line length (left to right margin) is 80 characters.

**Displaying More Lines**  
When the cursor reaches the extreme right margin, it is locked in position until moved by a cursor control command. To move the cursor to the extreme left margin of the next line, press the RETURN key (moves the cursor to the left margin of the current line) and the LF key (moves the cursor down one line). Either may be typed first.

If the cursor is not moved from the right margin, each new character received at the screen will replace the character currently displayed above the cursor. Type another full line. With the cursor at the extreme right margin, continue typing displayable characters to observe the character replacement.

Move the cursor to the next line and continue typing variable length lines until 12 lines are displayed. When the cursor is below line number 12, an LF (Line Feed) key will create space for a new line by moving all displayed lines up one line position. Creating space for new lines in this manner is called scrolling. Note that scrolling causes the top line to be lost as it moves off the screen. Type additional lines and watch the screen as each new Line Feed moves existing lines up.

**Changing Text on the Screen**  
Use cursor control commands to move the cursor to a position on the screen where a character is currently displayed. Type a displayable character and verify that this replaces the old character.

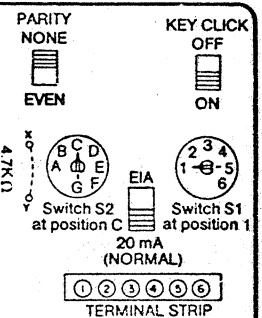
### Notes:

Switches S1 and S2 are shown set for 600 Baud, off-line use.

There must be a jumper between points X and Y if and only if the line frequency is 50 Hz (European) or the display will waver.

The contacts on the terminal strip are connected as follows:

- 20 mA
- Transmitter +(green)
- Transmitter -(red)
- Receiver +(white)
- Receiver -(black)
- Ground



### DESCRIPTION OF S1 AND S2

Switch S2 (speed)	Switch S1 (mode)
A - Bell 103**	1 - Off-Line
B - 110 Baud	2 - Full Duplex with Local Copy
C - 600 Baud	3 - Full Duplex
D - 1200 Baud	4 - Full Duplex, 300 Baud*
E - 2400 Baud	5 - Full Duplex, 150 Baud*
F - 4800 Baud	6 - Full Duplex, 75 Baud*
G - 9600 Baud	

\*Transmit at this speed rather than the speed selected by Switch S2.  
\*\*Transmit and receive at the same speed:  
300 Baud if Switch S1 is in position 4  
150 Baud if Switch S1 is in position 5  
75 Baud if Switch S1 is in position 6

For Teletype (Model 33) compatibility, set S1 to 3 and S2 to B. (Full Duplex 110 Baud)

### CONTROL CODES

ctrl G	Ring buzzer
ctrl H (or BACKSPACE)	Move cursor left one position
ctrl I (or TAB)	Move cursor to next TAB stop
ctrl J (or LF)	Move cursor down one line
ctrl M (or RETURN)	Move cursor to leftmost position in line
ESC	1. Enter Escape Mode (Prepare to process an Escape Sequence) 2. Exit Escape Mode (if terminal was in Escape Mode before ESC was typed)

### ESCAPE SEQUENCES

ESC A	Move cursor up one line
ESC C	Move cursor right one position
ESC H	Move cursor to the Home position (top left of screen)
ESC J	Erase from cursor to end of screen
ESC K	Erase from cursor to end of line
ESC Z	Identify terminal type (Terminal will transmit ESC/A)
ESC [	Enter Hold Screen Mode
ESC \	Exit Hold Screen Mode

### HOLD SCREEN MODE COMMANDS

SCROLL	Display a new line
shift SCROLL	Display 12 new lines (Display a new page)

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION, AND NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT WRITTEN PERMISSION OF DIGITAL EQUIPMENT CORPORATION.



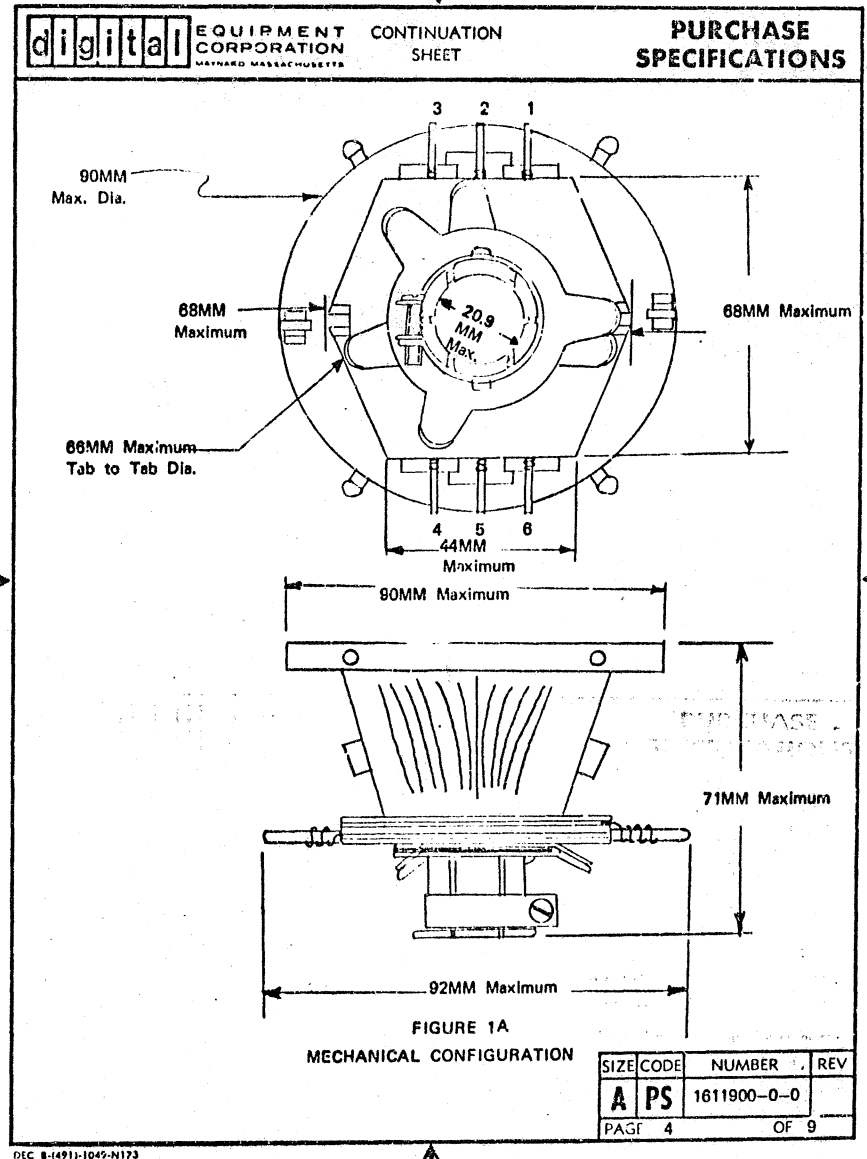


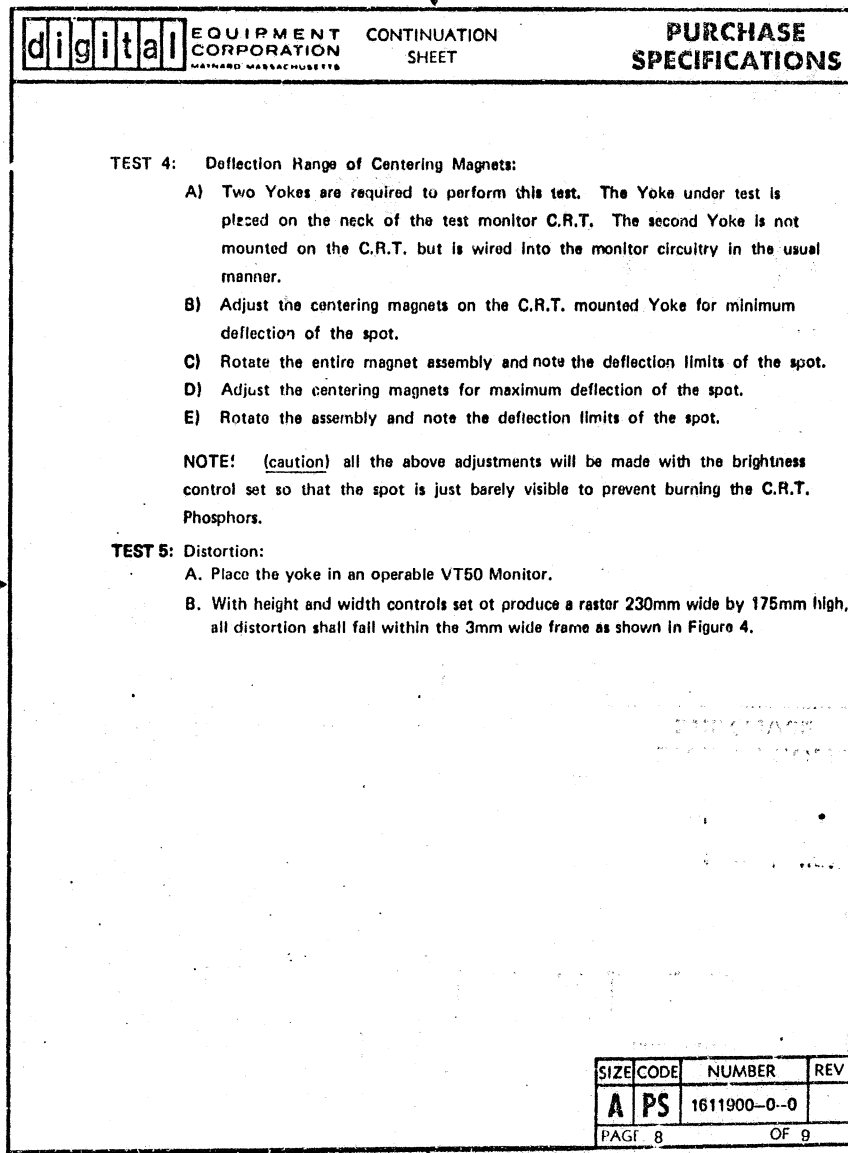
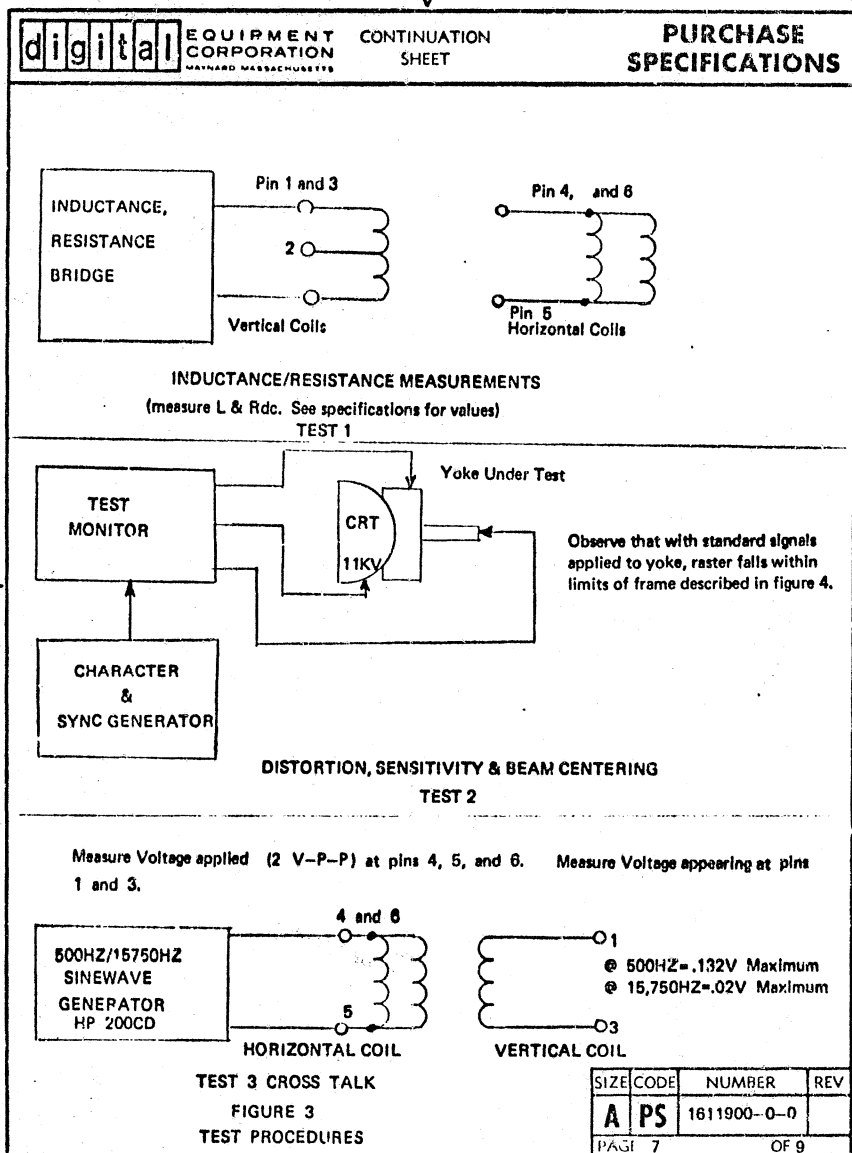
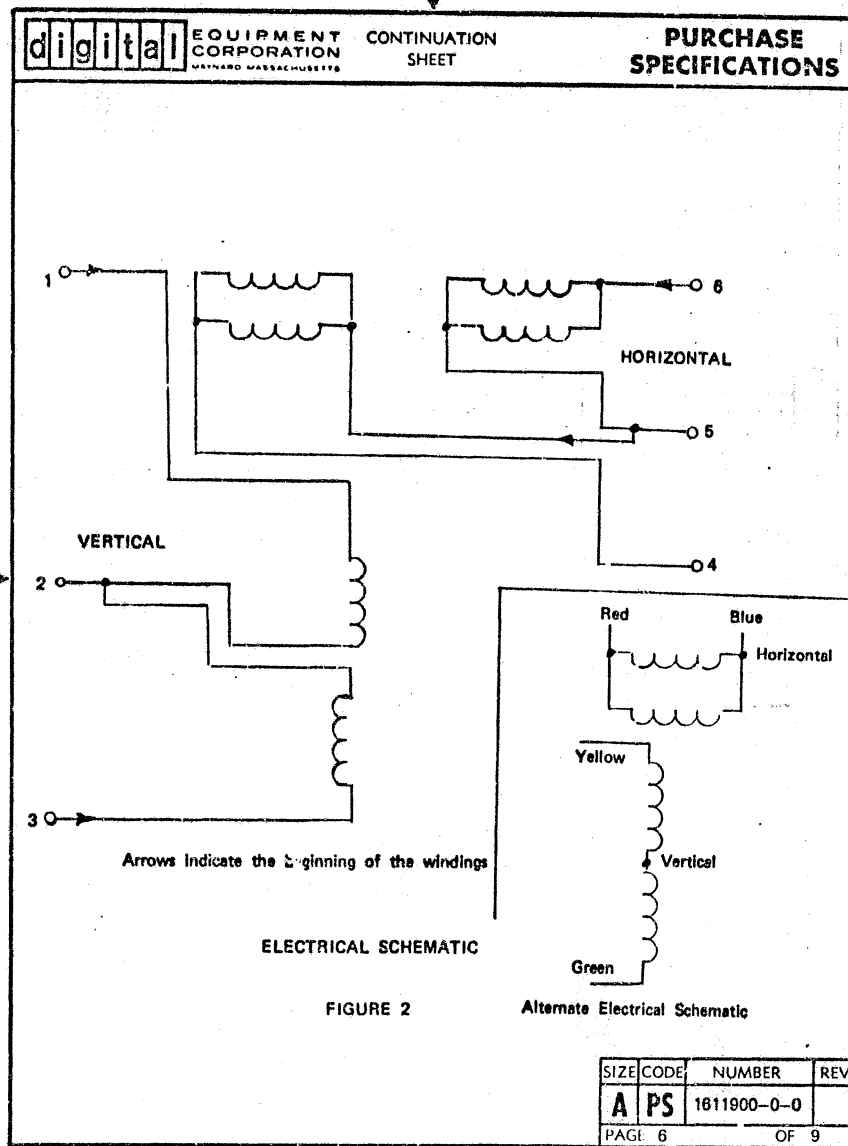
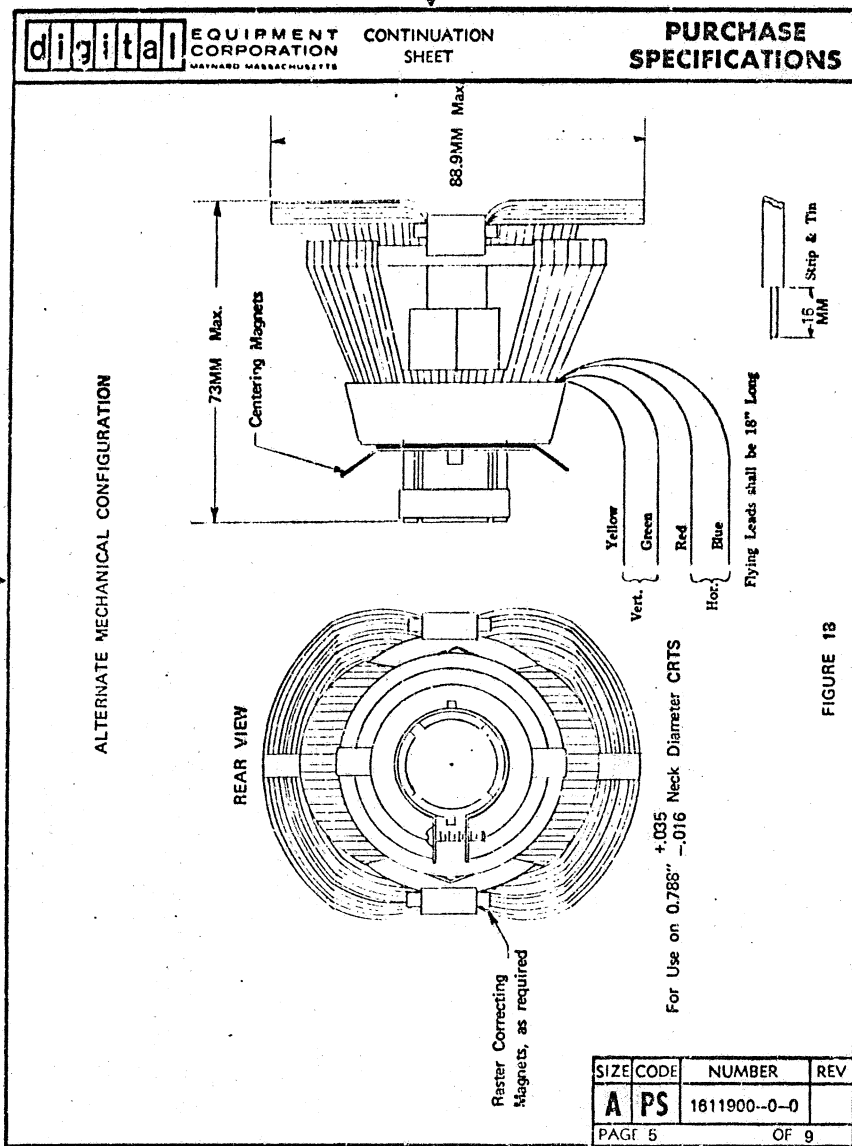


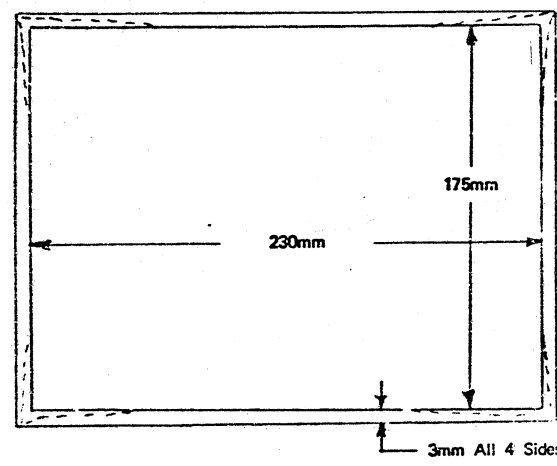
<b>digital</b>	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	<b>PURCHASE SPECIFICATIONS</b>	
<small>This document contains confidential proprietary information of Digital. This information shall not be disclosed to persons outside the employ of Digital, except by Digital personnel so authorized by Digital, and only for use by such other persons in the design, production or manufacture of products for Digital.</small>			
TITLE: <u>YOKE DEFLECTION</u>			
<b>1. GENERAL DESCRIPTION:</b> Deflection Yoke with an inductance of $107 \mu\text{H} \pm 5\%$ horizontal coils connected in parallel, an inductance of $29.9 \text{ mH} \pm 10\%$ vertical coils connected in series.			
<b>2. APPLICABLE DOCUMENTS:</b> (Latest revision on date of order). U.L. FR-1 Fire Retardant			
<b>3. REQUIREMENTS:</b>			
<b>3.1 Mechanical:</b>			
<b>3.1.1 Dimensions:</b> Reference Per Figure 1A and 1B			
<b>3.1.2 Yoke Lock:</b> A screw tightened clamping ring shall be provided which allows the yoke to be locked both axially and radially in the desired position.			
<b>3.1.3 Workmanship:</b> All units shall be manufactured in a careful and workmanship like manner in accordance with good design and sound practice. All units will be processed in such a manner that they are uniform in quality and free from cracks and voids in the case and other defects that will affect the life and proper functioning or appearance.			
<b>3.2 Electrical:</b>			
<b>3.2.1 Schematic:</b> Reference Per Figure 2			
<b>3.2.2 Test Procedures:</b> Reference Per Figure 3			
<b>3.2.3 Deflection Angle:</b> 110 degrees nominal.			
<b>3.2.4 Horizontal Coils:</b>			
A) Connection: Shall be in parallel			
B) Inductance: $107 \mu\text{H} \pm 5\%$			
C) Resistance: $0.2 \Omega \pm 10\%$			
D) Sensitivity: 8.4 A/230mm (with 11K anode potential).			
E) Terminal Connections: 4, 6, and 5 or Flying Leads			
APPROVED VENDOR		First Used On:	
Per Qualified Vendor Listing		VT50	
<small>Unless Otherwise Specified:          Dimensions are in inches, tolerances are three decimals <math>\pm .005</math>, two place decimals <math>\pm .02</math>, one place decimal <math>\pm .1</math>; Angles <math>\pm 0^\circ 30'</math>.</small>			
REVISION AUTHORIZATION		APPROVAL AND DATE	
SIGNATURE	REV. DATE	Design Eng.	Chief Eng.
		R. Pucci	K. Um
		T. DuLorenzo	M. Chetry
		SIZE CODE	NUMBER
		A PS	1611900-0-0
		PAGE 1	OF 9

<b>digital</b>	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	CONTINUATION SHEET	<b>PURCHASE SPECIFICATIONS</b>
<b>3.2 Electrical: (continued)</b>			
<b>3.2.4 Vertical Coils:</b>			
A) Connection: Shall be in series			
B) Inductance: $29.9 \text{ mH} \pm 10\%$			
C) Resistance: $16.4 \Omega \pm 10\%$			
D) Sensitivity: 504mA/175mm (with 11K anode potential)			
E) Terminal Connections: 1 and 3 center tap 2 or Flying Leads			
<b>3.2.5 Beam Centering Magnets</b> (shall be provided which will have the following characteristics:			
A) Null Effective Field: With the beam centering magnets adjusted to null their effective field, there will be no deflection of the beam greater than 3mm measured at the center of a 90 degree 12 inch CRT faceplate, when the entire magnet assembly is rotated.			
NOTE: There will be no yoke current flowing during this test.			
B) Maximum Effective Field: With the beam centering magnets adjusted for maximum effective field, there will be at least 20mm deflection of the beam as measured at the center of a 90 degree 12 inch C.R.T. faceplate when the entire magnet assembly is rotated.			
NOTE: There will be no yoke current flowing during this test.			
<b>3.2.6 Cross Talk:</b> Maximum allowable cross talk 1/15 of the applied voltage @500 HZ or 1/200th @ 15,750 HZ.			
<b>3.2.7 Deflection Centers:</b> Horizontal deflection center shall be well within the conical part of the C.P.T. and Vertical & Horizontal deflection centers shall coincide.			
<b>3.2.8 Distortion:</b> Reference Per Figure 4			
<b>3.2.9 High Voltage Breakdown:</b> 500 Volts peak-peak min. Winding to Winding & Winding to Core.			
NOTE: All beam centering and distortion measurements shall be made with an 11K anode potential.			
<b>3.3 Solderability:</b> All contacts will be tinned and ready for soldering as received with no further preparation required. They will be capable of providing well wetted solder joints when mated with an #18 AWG stranded tinned copper wire lead. Standard Hand Soldering techniques will be employed using a Weller W-TCP Iron equipped with a PTE7 solder tip, at a soldering temperature of 700°F an Alpha DX4815F rosin core solder with a QQ-S-571 Flux shall be the materials used to solder the leads to the component.			
		SIZE CODE	NUMBER
		A PS	1611900-0-0
		PAGE 2	OF 9

<b>digital</b>	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	CONTINUATION SHEET	<b>PURCHASE SPECIFICATIONS</b>
<b>3.4 Environmental:</b>			
<b>3.4.1 Temperature:</b>			
A) Operating: $+10^\circ\text{C}$ to $+70^\circ\text{C}$			
B) Storage: $-10^\circ\text{C}$ to $+80^\circ\text{C}$			
<b>3.4.2 Humidity:</b> 20% to 80% over a temperature $-10^\circ\text{C}$ to $+80^\circ\text{C}$ without condensation.			
<b>3.4.3 Shock (non-operating):</b> 50G shock pulse duration $30 \pm 10\text{m}$ seconds in 6 orientation with 1/2 sine pulse.			
<b>3.4.4 Vibration:</b>			
A) Operating: .002" Double Amplitude from 8 to 50HZ, 0.256 Double Amplitude from 40 to 500HZ with one octave per minute duration.			
B) Non-Operating: Vertical; 1.895 RMS overall from 10-300HZ. Acceleration Spectral Density; $0.029\text{G}^2$ HZ from 10 to 50 HZ, with approximately db/octave roll off from 50-200HZ.			
<b>3.5 Marking:</b> Vendor name or symbol, DEC identifying number 1611900-00 and leads marked.			
NOTE: Markings shall be impervious to a Trichlorethylene bath for 5 seconds of contact when applied with a cleaning brush.			
<b>3.6 Shelf Life:</b> There shall be no degradation from initial measurements, when stored for 1 year at RH of 20% to 80% over a temperature range of $-10^\circ\text{C}$ to $+80^\circ\text{C}$ .			
<b>3.7 Packaging:</b> Shall be enclosed in a non-corrosive container to the component and meet I.C.C. requirements for shipment by rail, airplane and truck.			
NOTE: All Flying leads shall be 18 inches long, #22 stranded hookup wire with U.L. approved (FR-1) PVC insulation. Leads shall be stripped and tinned 5/8" from the end. Vertical Leads shall be Yellow and Green, Horizontal Leads shall be Red and Blue.			
		SIZE CODE	NUMBER
		A PS	1611900-0-0
		PAGE 3	OF 9







With a raster dimension of 230 x 175mm all distortion will fall within a 3mm wide band on each edge of the raster.

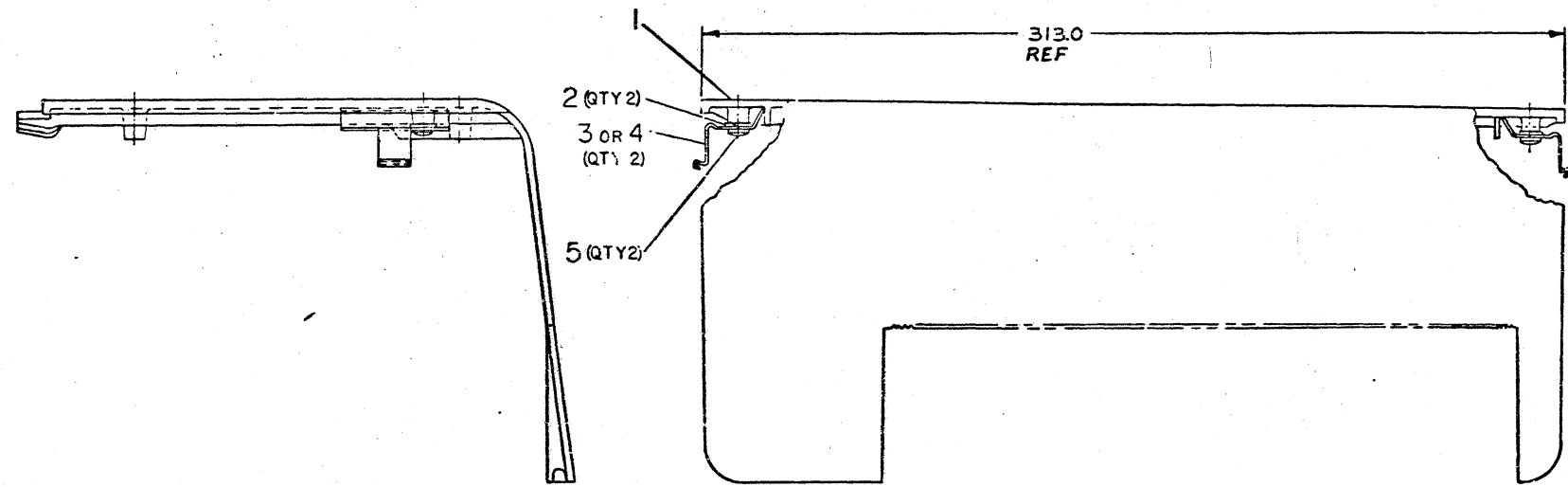
FIGURE 4  
DISTORTION

SIZE	CODE	NUMBER	REV
A	PS	1611900-0-0	
PAGE 9		OF 9	



THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975, DIGITAL EQUIPMENT CORPORATION

LEGEND	
NUMBER	VARIATION
7010847-1-0	USE WITH COPIER
7010847-2-0	USE WITH-OUT COPIER



METRIC DIMENSIONS

2	2	SCREW, PAN HD, #8-32x.25	9007224-1	5
2	-	BRACKET, COPIER COVER	1-MD-7413329-00	4
-	2	BRACKET, COPIER COVER	1-MD-7413330-00	3
2	2	WASHER, FLAT	9006662	2
1	1	COPIER COVER	E-MD-7412574-00	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS	ANGLES		CLASS OF ACCURACY					
	10° 30'	30°	0.1	0.2	0.3	0.4	0.6	1.0
SURFACE QUALITY IN MICROINCHES	PREFERRED		0.1	0.2	0.3	0.4	0.6	1.0
	MEDIUM		0.2	0.4	0.6	1.0	1.6	2.5

THIRD ANGLE PROJECTION	DRN. <i>P. P. P.</i>	12975	FIRST USED ON	VT50
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D <i>[Signature]</i>		TITLE	COPIER COVER ASSEMBLY
DO NOT SCALE Dwg	PROJ. ENG. <i>[Signature]</i>		SIZE CODE	AD
MATERIAL SEE PARTS LIST	PROD. <i>[Signature]</i>		NUMBER	7010847-0-0
FINISH	NEXT HIGHER ASSY.		SCALE	1/1
			SHEET	1 OF 1
			DIST.	

REV.	CHANGE NO.

1 AD 7010847-0-0

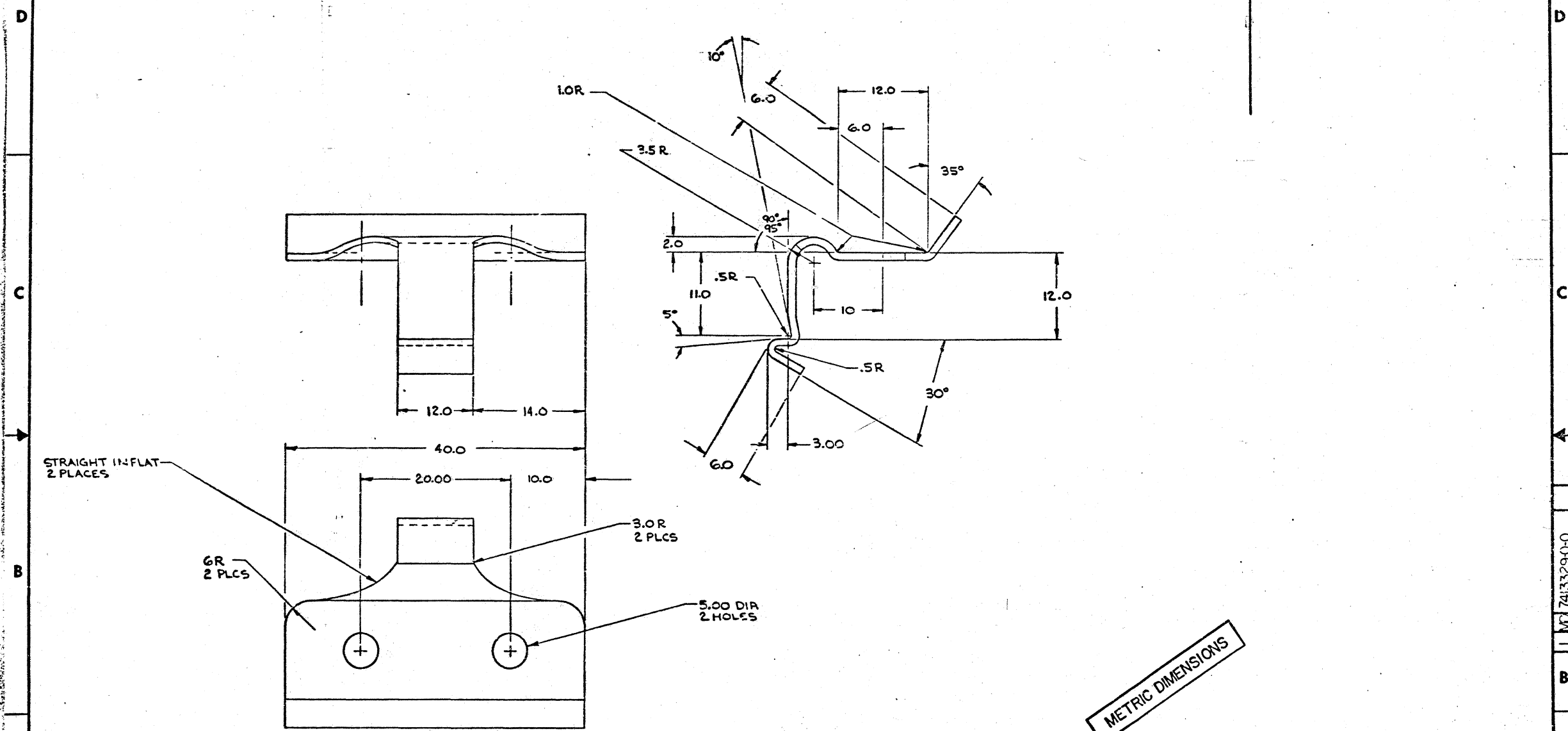






THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975, DIGITAL EQUIPMENT CORPORATION.

NOTES  
 1. MAT'L TO BE: .020 THK BERELIUM COPPER, 1/2 HARD



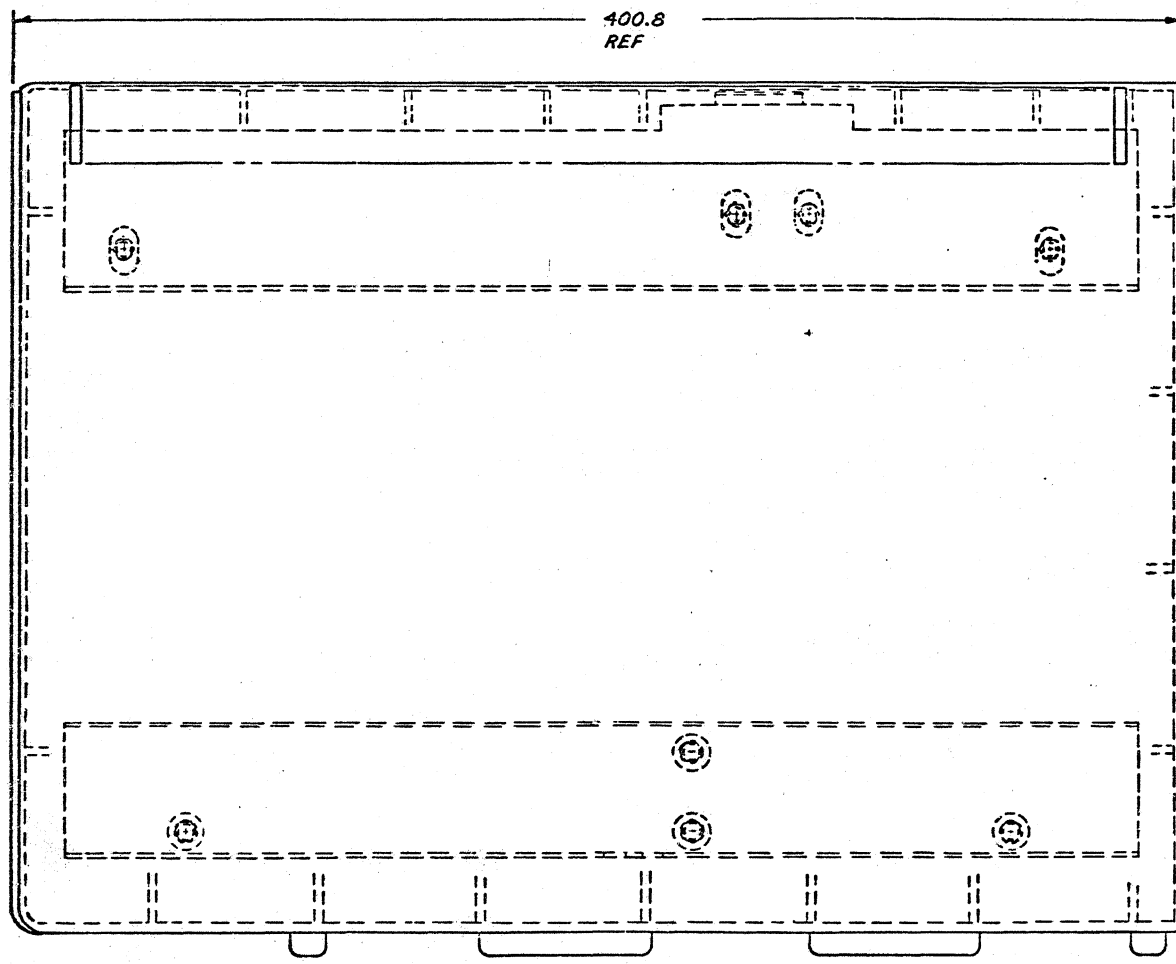
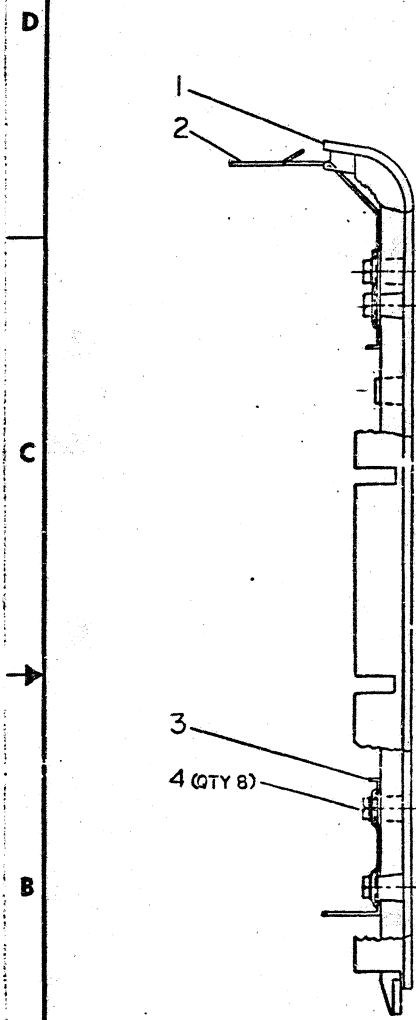
REV.	
CHANGE NO.	
CHK	

THIRD ANGLE PROJECTION		DESCRIPTION		DWG. PART NO	ITEM NO
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS					
ANGLES	CLASS OF ACCURACY	SURFACE QUALITY IN MICRONS			
0° 30'	CHECK ONE	1	5	10	20
		5	10	20	50
		10	20	50	100
		20	50	100	200
QUANTITY & VARIATION	MICRONS	PREFERRED			
		0.3	0.4	0.6	1.0
		1.6	2.5		
DRN	3-3-80	FIRST USED ON	digital		
CHK	3-4-75	TITLE	BRACKET, COPIER COVER (REMOVABLE)		
ENG	2-11-75	PROJECT	AD 710847-0-0		
PROD		SCALE	1/1		
		NEXT P. OR ASSY.			
MATERIAL	SEE NOTE #1	SIZE CODE	NUMBER		
FINISH	NONE	SCALE	1/1		
		SHEET	OF 1		
		DIST.			

SEC FORM NO. 841-150

1 MC 7413329-0-0

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975, DIGITAL EQUIPMENT CORPORATION



METRIC DIMENSIONS

8	SCREW, HEX HD. #3x $\frac{1}{2}$	9009681-5	4
1	STIFFENER, BLANK COVER	D-MD-7413331-0-0	3
1	HOLD DOWN, BLANK COVER	D-MD-7413333-0-0	2
1	FIXED COVER	D-MD-7412573-0-0	1

DESCRIPTION		ENG. PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS			
ANGLES 10°-30°	CLASS OF ACCURACY	DIMENSION RANGE MILLIMETER	
SURFACE QUALITY IN MICROINCHES	CHECK ONE	0-10	0.10
		10-25	0.25
QUANTITY & VARIATION	MEDIUM	25-50	0.50
		50-100	1.00
THIRD ANGLE PROJECTION	PREFERRED	100-300	1.50
		300-1000	2.00
DO NOT SCALE DWG		1000-2000	2.50
MATERIAL SEE PARTS LIST		2000-5000	3.00
FINISH		5000-10000	4.00

DRN: *[Signature]* 1/23/75 FIRST USED ON: VT50 digital

CHK'D: *[Signature]* 2/11/75

ENG: *[Signature]* 2/11/75

PROJ. ENG: *[Signature]* 2/11/75

PRCD: *[Signature]* 2/11/75

TITLE: COVER BLANK FIXED ASSEMBLY

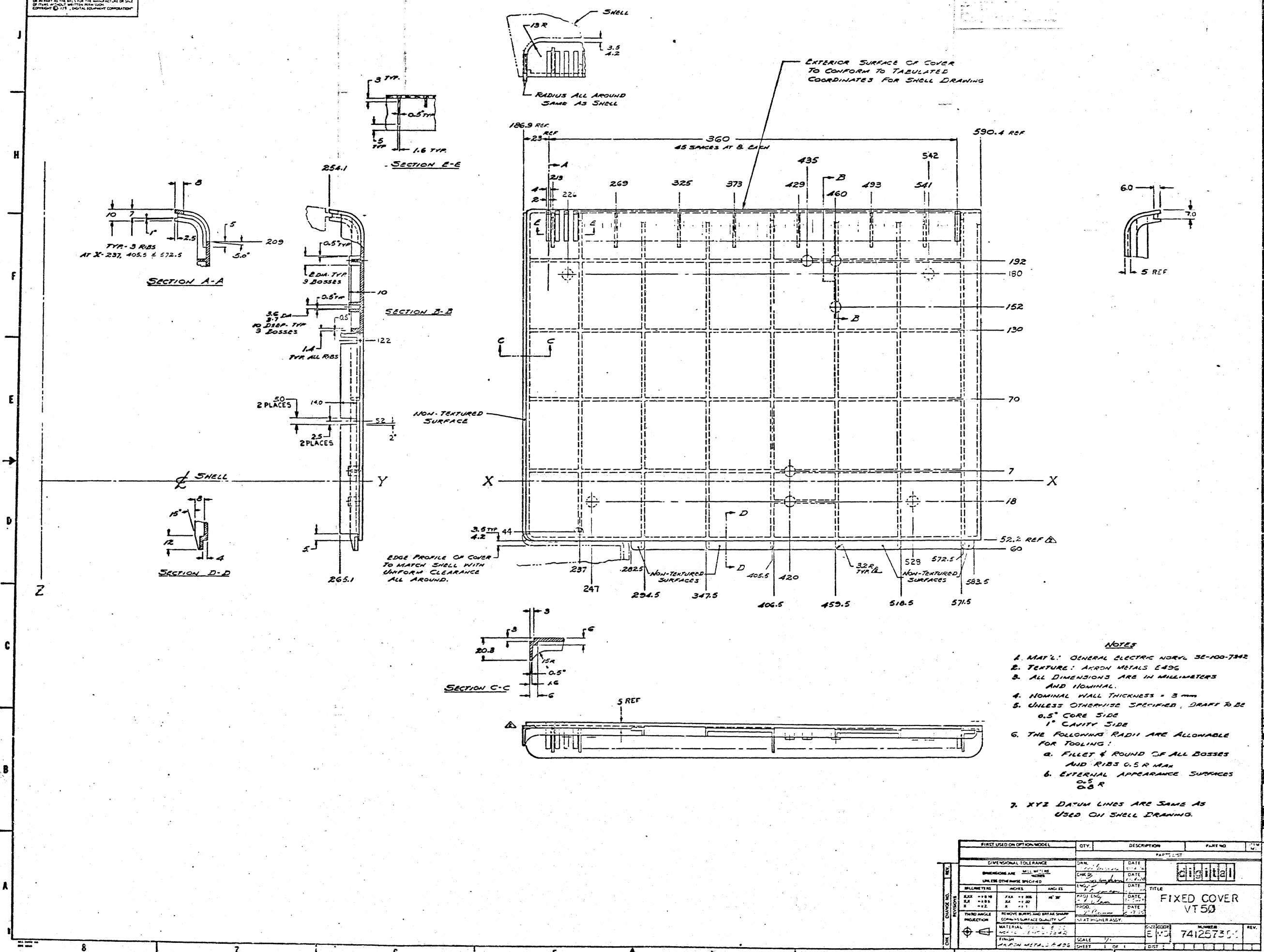
SIZE: 1-1/2" X 2-1/4" CODE: 1 AD 7010846-0-0 NUMBER: 1 REV: 1

SCALE: 1/1 OF 1 DIST: 1

REVISIONS	BY
CHANGE NO.	
DATE	

1 AD 7010846-0-0

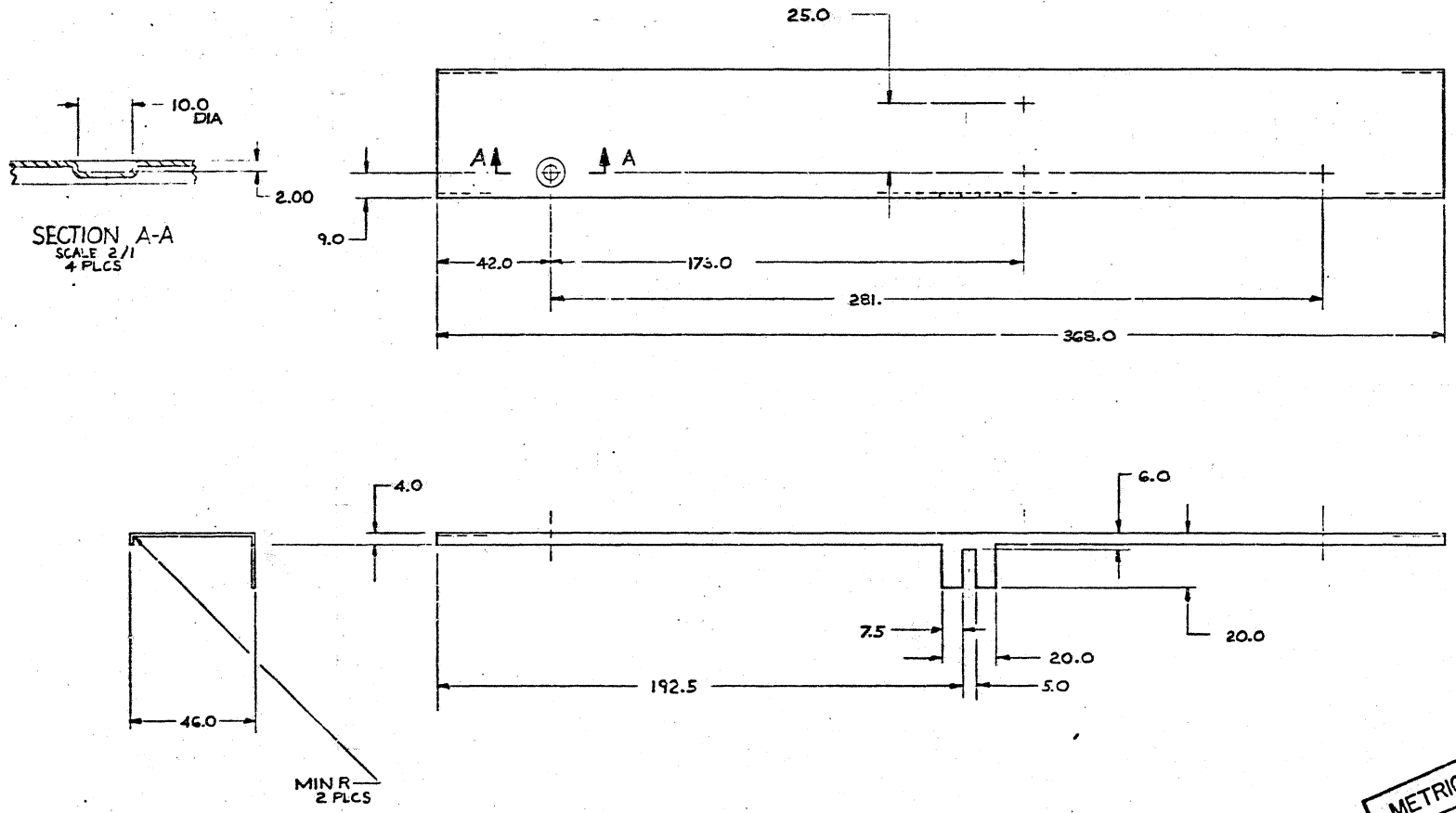
THIS DRAWING AND SPECIFICATIONS HEREAFTER ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OF ANY OF THESE PRODUCTS WITHOUT WRITTEN PERMISSION FROM DIGITAL EQUIPMENT CORPORATION.



REV.	CHANGE NO.	DESCRIPTION	FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	REV.
DIMENSIONAL TOLERANCE		DATE	DATE	PART LIST			
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED		CHK'D	DATE	digital			
MILLIMETERS		INCHES	DATE	TITLE			
±0.13	±0.005	±0.0005	DATE	FIXED COVER			
±0.25	±0.010	±0.0010	DATE	VT50			
±0.50	±0.020	±0.0020	DATE	E.V.O. 74125730			
±1.00	±0.050	±0.0050	DATE	SCALE 1/1			
±2.00	±0.100	±0.0100	DATE	SHEET 1 OF 1			
±3.00	±0.150	±0.0150	DATE	REV.			

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974, DIGITAL EQUIPMENT CORPORATION

0-0-13331-0-0 2



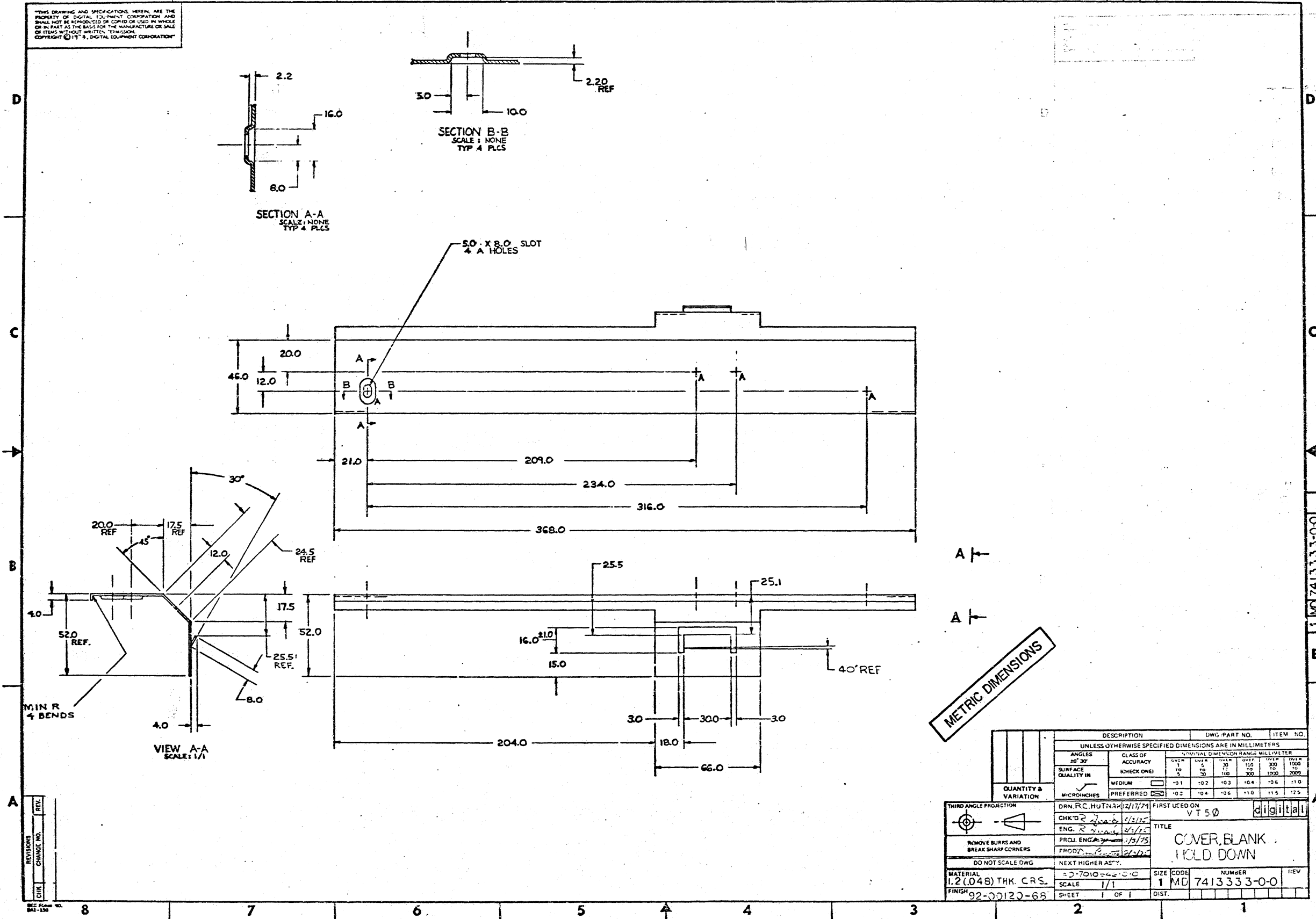
REV.	
CHANGE NO.	
CHEK	

THIRD ANGLE PROJECTION	DRN.	10/25	FIRST USED ON	VT50
	CHK'D	10/25	TITLE	STIFFNER, ELANK COVER
REMOVE BURRS AND BREAK SHARP CORNERS	PROJ. ENG.	10/25	SCALE	1/1
DO NOT SCALE DWG	PROD.	10/25	NEXT HIGHER ASSY.	
MATERIAL .048 IN THK C.R.S.	FINISH	9220120-68	SIZE	D
			CODE	413331-0-0
			NUMBER	
			DIST.	

REV. 1  
D MC 74 13331-0-0

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974, DIGITAL EQUIPMENT CORPORATION

1 MD 7413333-0-0 2



METRIC DIMENSIONS

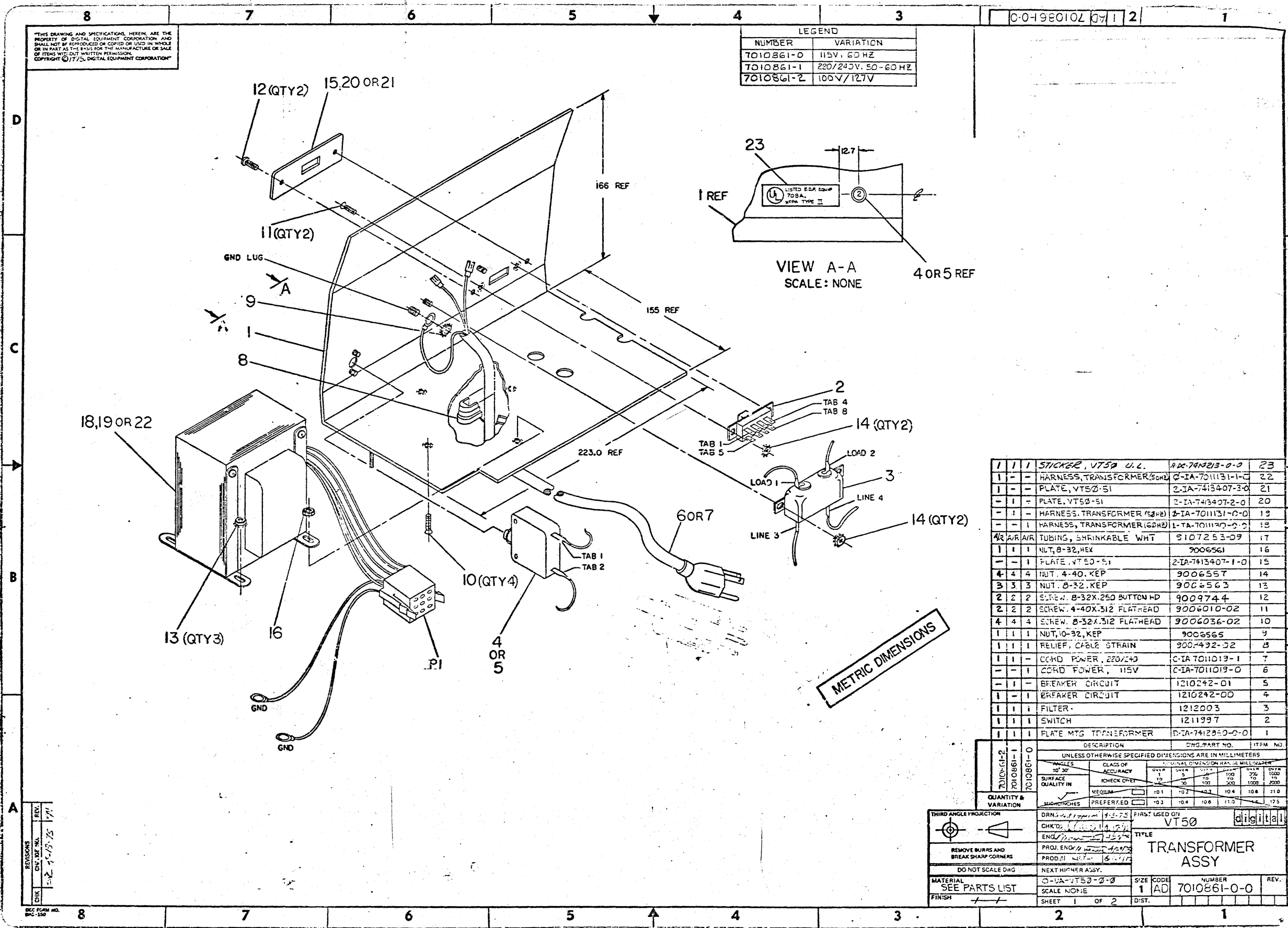
DESCRIPTION		DWG PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS					
ANGLES	CLASS OF ACCURACY	TYPICAL DIMENSION RANGE MILLIMETER			
30° 30'	(CHECK ONE)	OVER 1	OVER 5	OVER 10	OVER 100
SURFACE QUALITY IN	MEDIUM	10	30	100	300
QUANTITY & VARIATION	PREFERRED	5	100	300	1000
MICRONCHES		+0.1	+0.2	+0.3	+0.4
		+0.2	+0.4	+0.6	+1.0
				+1.5	+2.5
THIRD ANGLE PROJECTION	DRN. R.C. HUTNAX/12/74	FIRST USED ON	VT 50 digital		
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D R. [Signature] 4/3/75	ENG. R. [Signature] 4/3/75	TITLE		
DO NOT SCALE DWG	PROJ. ENG. [Signature] 1/3/75	PROD. [Signature] 5/2/75	COVER BLANK HOLD DOWN		
MATERIAL	1.2 (.048) THK. C.R.S.	SCALE	1/1	SIZE	CODE
FINISH	92-00120-68	SHEET	1 OF 1	DIST.	
					NUMBER
					7413333-0-0
					REV

REV	DESCRIPTION	DATE

SEC 804-150

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1973, DIGITAL EQUIPMENT CORPORATION

LEGEND	
NUMBER	VARIATION
7010861-0	115V, 60 HZ
7010861-1	220/240V, 50-60 HZ
7010861-2	105V/127V



1	1	1	STICKER, VTSO U.L.	AD-74423-0-0	23
1	-	-	HARNES, TRANSFORMER (60HZ)	C-IA-701131-1-0	22
1	-	-	PLATE, VTSO-SI	2-IA-743407-3-0	21
-	1	-	PLATE, VTSO-SI	2-IA-743407-2-0	20
-	1	-	HARNES, TRANSFORMER (50HZ)	2-IA-701131-0-0	19
-	1	-	HARNES, TRANSFORMER (60HZ)	1-IA-701131-0-0	18
4	R	A/R	TUBING, SHRINKABLE WHT	9107253-09	17
1	1	1	NUT, 8-32, HEX	9006561	16
-	1	-	PLATE, VTSO-SI	2-IA-743407-1-0	15
4	4	4	NUT, 4-40, KEP	9006557	14
3	3	3	NUT, 8-32, KEP	9006563	13
2	2	2	SCREW, 8-32X.250 BUTTND HD	9009744	12
2	2	2	SCREW, 4-40X.312 FLATHEAD	9006010-02	11
4	4	4	SCREW, 8-32X.312 FLATHEAD	9006036-02	10
1	1	1	NUT, 10-32, KEP	9006565	9
1	1	1	RELIEF, CABLE STRAIN	900492-02	8
1	1	-	CORD POWER, 220/240	C-IA-7011019-1	7
-	1	-	CORD POWER, 115V	C-IA-7011019-0	6
-	1	-	BREAKER CIRCUIT	1210242-01	5
1	1	-	BREAKER CIRCUIT	1210242-00	4
1	1	1	FILTER	1212003	3
1	1	1	SWITCH	1211997	2
1	1	1	PLATE MFG TRANSFORMER	D-IA-741295-0-0	1

QUANTITY & VARIATION	DESCRIPTION	DWG. PART NO.	ITEM NO.
7010861-1	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS		
7010861-0	CLASS OF ACCURACY		
	CLASS	1	2
	CHECK	100	1000
	QUALITY	100	1000
	IN	100	1000
	MEASUREMENT	0.1	0.05
	PREFERRED	0.3	0.15

THIRD ANGLE PROJECTION	DRN. DATE	9-3-73	FIRST USED ON	VT50
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D	11-1-73	TITLE	
DO NOT SCALE DWG	ENG	11-1-73	TRANSFORMER ASSY	
MATERIAL SEE PARTS LIST	PROJ. ENG	11-1-73	SIZE CODE	1 AD
FINISH	PROD. MGR	11-1-73	SCALE	NONE
			SHEET	1 OF 2
			DIST.	



THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975, DIGITAL EQUIPMENT CORPORATION

115 VOLTS  
60 HZ

100/127 VOLTS  
220/240 VOLTS  
50-60 HZ

ITEM NO.	DESCRIPTION	FROM			TO			SIGNAL
		POINT	CONNECTION	WITH	POINT	CONNECTION	WITH	
18			P1					
		1				SI-5		
		2				SI-1		
		3						NOT USED
		4						NOT USED
10	BLK	13	FL LOAD 1	17	18	CB-1	17	
14	BLK	14	SI-2		17	CB-2	17	
14	WHT	15	SI-6		16	FL LOAD 2	17	
18	GRN	19				GND		
18	GRN	20				GND		
6	18	WHT				FL LINE 3	17	
6	18	ELK				FL LINE 4	17	
6	18	GRN				GND		

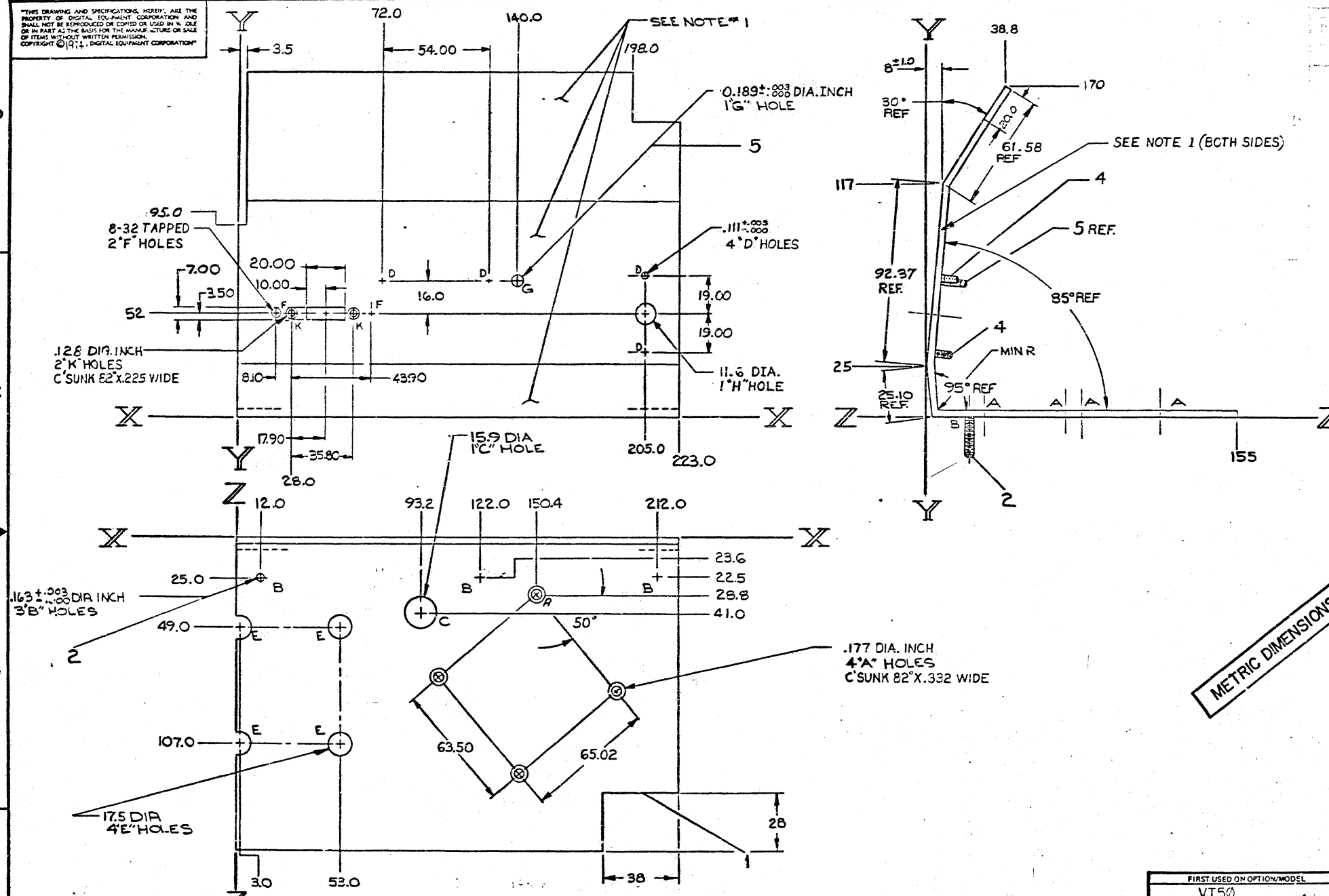
ITEM NO.	DESCRIPTION	FROM			TO			SIGNAL
		POINT	CONNECTION	WITH	POINT	CONNECTION	WITH	
			P1					
16	ELK	1				SI-1		
18	GRN	2				GND		
18	GRN	3				GND		
14	ELK	12				CB-2	17	
18	ELK	17	CB-1	15	18	FL LOAD 1	17	
14	WHT	15				FL LOAD 2	17	
18	ELK	13				SI-2		
18	ELK	14				SI-3		
18	WHT	15				SI-5		
18	WHT	16				SI-6		
18	ELK/WHT	22				SI-4		
18	WHT	24				SI-7		
18	WHT	25				SI-8		
16	RED/YEL	26						NOT USED
16	RED/YEL	27						NOT USED
7	18	ERN				FL LINE 4	17	
7	18	BLU				FL LINE 3	17	
7	18	GRN/YEL				GND	9	

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	TRANSFORMER ASSY	SIZE/CODE	1 AD	NUMBER	7010861-0-0	REV.	
SCALE	NONE	SHEET	2	OF	2	DIST.	

DEC FORM NO. 043-184

1 AD 7010861-0-0



**NOTES**

1. TEXTURE THIS SURFACE AND THE EDGES OF THIS SURFACE ONLY. DO NOT PAINT THE BOTTOM OR THE BACKSIDE. SLIGHT OVERSPRAY PERMITTED.
2. ALLOY 1100 PREFERRED FOR MAXIMUM THERMAL CONDUCTIVITY. ALLOY 3003 ACCEPTABLE. ANY HARDNESS CONDITION ACCEPTABLE.

**ECO HISTORY**

REV D	ZONE	CHANGE	NAS
	7D	95.0	105.0
	5D	ADDED 198.0 DIM	
	4D	ADDED 20.0 DIM	

METRIC DIMENSIONS

FOR ECO REVISION HISTORY SEE NOTES

REV.	DATE	BY	CHKD.	DESCRIPTION
A	11-27-74	R. DOANE		INITIAL
B	12-12-75	R. DOANE		7412850-00002
C	1-16-76	R. DOANE		7412850-00003
D	2-18-76	R. GIRARD		7412850-00004
E	3-11-76	Y. GARCIA		7412850-00005

ITEM NO.	DESCRIPTION	PART NO.	QTY.
1	STUD #10-32 X 1/2	9007173	5
4	STUD #4-40 X (31 IN) LG	3007162	4
4	STUD #3-32 X (50 IN) LG	3007163	3
3	STUD #8-32 X (1.0 IN) LG	3007172	2
1	PLATE, MTG. TRANS.		1

FIRST USED ON OPTION/MODEL		PARTS LIST	
VT50			
DIMENSIONAL TOLERANCE		DRN.	DATE
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED		CHK'D	DATE
MILLIMETERS	ISO	ENG.	DATE
±0.10	±0.10	PROJ. ENG.	DATE
±0.05	±0.05	PROD.	DATE
±0.2	±0.2		
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.	
	MATERIAL 3.75 MM (.25) THK AL 6061-T6	SIZE CODE	NUMBER
	FINISH (SEE NOTE 1) 92-CC151-47	E-UR-VT50-0-0	DIA 7412850-0-0
	SCALE 1/1	SHEET 1 OF 1	DIST

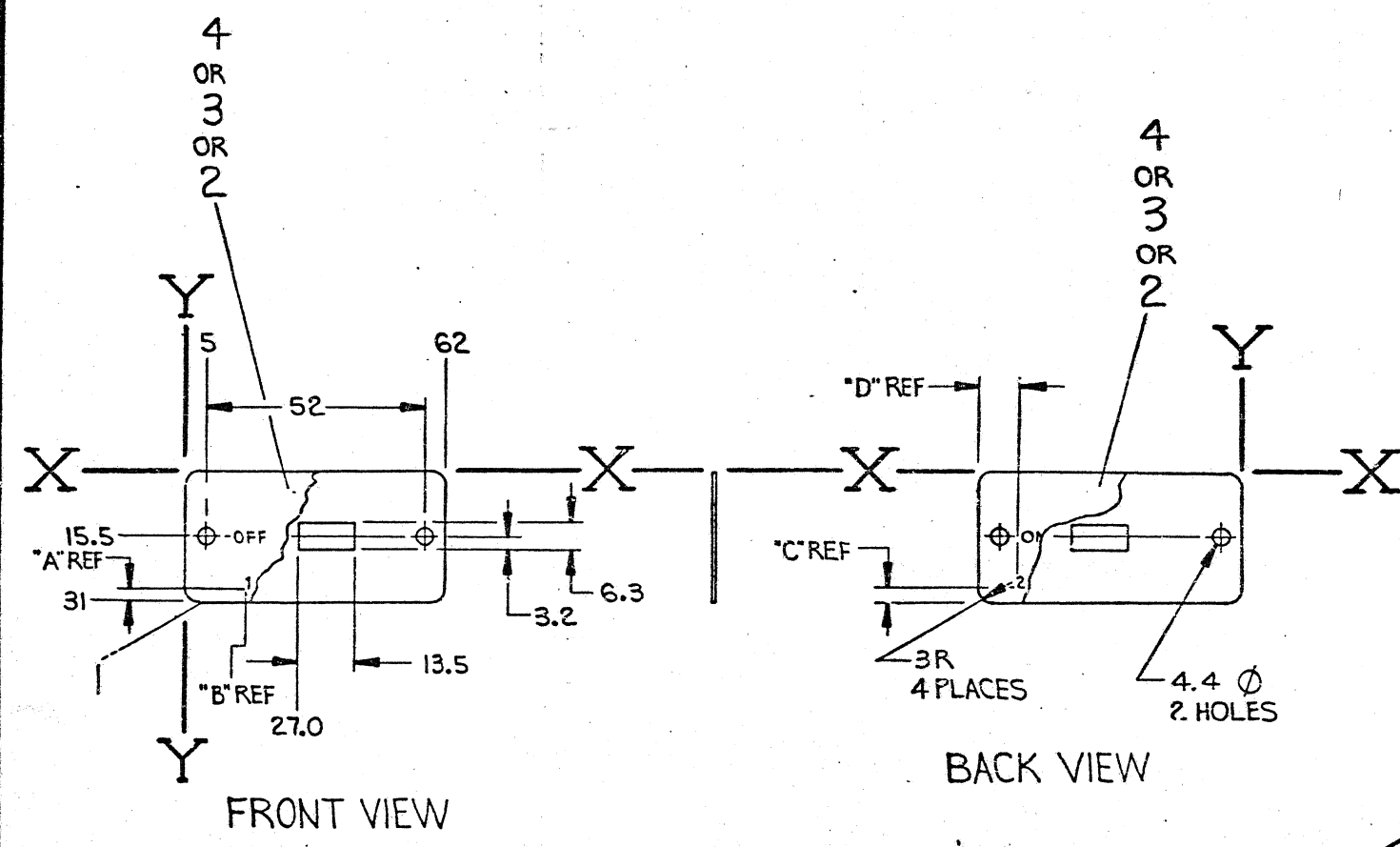






"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT ©1975, DIGITAL EQUIPMENT CORPORATION"

LEGEND					
PART NO.	VARIATION	"A" REF	"B" REF	"C" REF	"D" REF
7413407-1-0	15 VAC	3.0	14.0	—	—
7413407-2-0	220VAC - 240VAC	3.3	8.6	3.3	8.1
7413407-3-0	100VAC - 127 VAC	3.3	8.4	3.3	10.4



METRIC DIMENSIONS

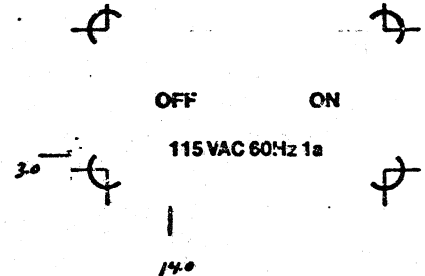
REV.	CHANGE NO.	DATE	BY	CHK
A	00001	2-28-75	M. MORGANSTEIN	

QTY	DESCRIPTION	DWG./PART NO.	ITEM NO.
1	SILK SCREEN (LT GR)	A-SS-7413407-0-3	4
1	SILK SCREEN (LT GR)	A-SS-7413407-0-2	3
1	SILK SCREEN (LT GR)	A-SS-7413407-0-1	2
1	PLATE		1

QUANTITY & VARIATION	DESCRIPTION	DWG./PART NO.	ITEM NO.	NOMINAL DIMENSION RANGE MILLIMETER					
				OVER 1 TO 5	OVER 5 TO 30	OVER 30 TO 100	OVER 100 TO 300	OVER 300 TO 1000	OVER 1000 TO 2000
7413407-3-0									
7413407-2-0									
7413407-1-0									

THIRD ANGLE PROJECTION	DRN. S. R. [Signature]	1-9-75	FIRST USED ON	VT50
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D S. R. [Signature]	1-27-5	TITLE	PLATE, VT50-51
DO NOT SCALE DWG	ENGL. [Signature]	1-27-5	TITLE	OFF/ON SWITCH
MATERIAL .75 THK 5052-H32 ALUM.	PROJ. ENG. [Signature]	1-27-5	SIZE	2
FINISH 92CO101-47	PROD. [Signature]	1-27-5	CODE	IA
			NUMBER	7413407-0-0
			REV.	A
			DIST.	

"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975 DIGITAL EQUIPMENT CORPORATION"



SPEC # 9200101-68 GRAY

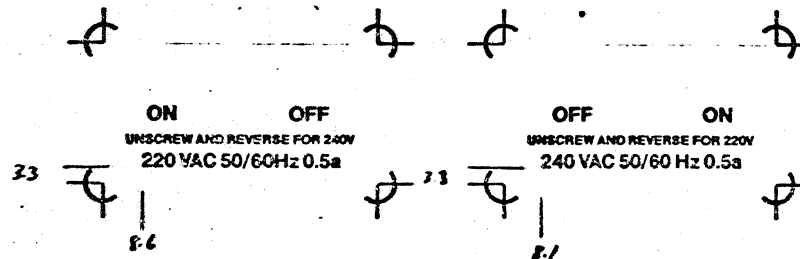
REVISIONS	
CHK	CHANGE NO.
3	7413407-00001 A
<i>L. Daniels 8-5-75</i> <i>John Jones</i>	

**O.K.**  
 INSPECTED BY *MI*  
 DATE *1-15-75*

DRN. <i>L. Daniels</i>	<i>1-14-75</i>	FIRST USED ON	<i>VT50</i>	<b>digital</b>
CHK'D <i>[Signature]</i>	<i>1-27-75</i>	TITLE	<i>Switch PLATE</i>	
ENG. <i>[Signature]</i>	<i>1-27-75</i>	<i>VT50 - AA</i>		
PROJ. ENG. <i>[Signature]</i>	<i>1-27-75</i>	NEXT HIGHER ASSY.		
PROD. <i>2. [Signature]</i>	<i>1-27-75</i>	SIZE	CODE	NUMBER
SCALE		<i>A</i>	<i>SS</i>	<i>7413407-0-1</i>
SHEET	OF	DIST.		REV. <i>A</i>



"THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975 DIGITAL EQUIPMENT CORPORATION"



REVISIONS	CHANGE NO.	REV.
	7413407-00001	A

DRN. J. Demers 1-14-75  
 CHK'D [Signature] 1-27-75  
 ENG. [Signature] 1-27-75  
 PROJ. ENG. [Signature]  
 PROD. [Signature]  
 NEXT HIGHER ASSY.

**O.K.**

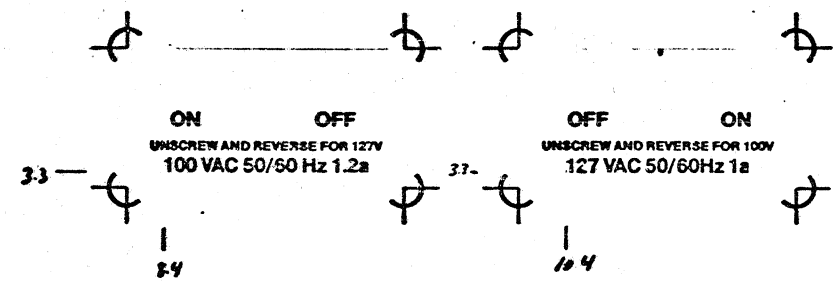
AMT. TO STOCK  
 INSPECTED BY  
 DATE 1/27/75  
 PART # DEC-3-1475-1449-0072

SPEC # 9200101-68 GRAY

DRN. J. Demers 1-14-75	FIRST USED ON	VT50 digital
CHK'D [Signature] 1-27-75	TITLE	switch plate
ENG. [Signature] 1-27-75		VT50-BA
PROJ. ENG. [Signature]	SIZE	CODE
PROD. [Signature]	A	SS
NEXT HIGHER ASSY.	NUMBER	7413407-0-2
	REV.	A
SHEET	OF	DIST.



"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT © 1975 DIGITAL EQUIPMENT CORPORATION"



REV.	A
CHANGE NO.	7413407-0001
CHK	J. James
DATE	1/21/75

**O.K.**

AMT. TO STOCK  
 INSPECTED BY  
 DATE 1/21/75  
 PART = DEC-3(442)-1(49-117)

SPEC # 9200101-68 GRAY

DRN.	J. James	1-14-75	FIRST USED ON	VT50	digital
CHK'D	J. James	1-21-75	TITLE		
ENG.	J. James	1-21-75	SWITCH PLATE		
PROJ. ENG.	J. James	1-21-75	VT50-CA		
PROD. L.	J. James	1-21-75	NEXT HIGHER ASSY.		
SIZE	A	CODE	55	NUMBER	7413407-0-3
SHEET	OF	DIST.		REV.	A

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part without the written permission of Digital Equipment Corporation.

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION				DATE 12/16/74		
TITLE VT50 ENGINEERING SPECIFICATION						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	ECO CHANGE	VT50-00002	MORGANSIERN	3-75	<i>[Signature]</i>	3-25-75
B	ECO CHANGE	VT50-00007	BUZYNSKI	4-75	<i>[Signature]</i>	4-29-75

**1.0 General**

This document specifies the level of performance the end-user can expect from the VT50.

For the purposes of this specification, the VT50 Programmer's and Operator's Manuals are included as part of this specification.

VT50 Programmer's Manual      DEC-00-0VT5A-A-D

VT50 Operator's Manual      DEC-00-0VTOA-A-D

ENG <i>[Signature]</i>	APPD <i>[Signature]</i>	SIZE A	CODE SP	NUMBER VT50-0-1	REV B
------------------------	-------------------------	--------	---------	-----------------	-------

ENGINEERING SPECIFICATION		CONTINUATION SHEET								
TITLE VT50 ENGINEERING SPECIFICATION										
2.0 OVERALL SPECIFICATIONS										
CHARACTERISTIC	DESCRIPTION									
DIMENSIONS	Height 360mm (14.1 in.) Width 53. mm (20.9 in.) Depth 690mm (27.2 in.) Minimum Table Depth 450mm (17.7 in.)									
WEIGHT	20kg (44 lbs.)									
OPERATING ENVIRONMENT	DEC STD 102 Class B environment  Temperature 10°C to 40°C (50°F to 104°F) Humidity 20% to 80% with: Maximum wet bulb 25°C (77°F) Minimum dew point 2°C (36°F)									
LINE VOLTAGE	U.S. model: 100-126V (115V nominal) European model: 191-238V or 209-260V (220/240V nominal switch selectable)									
LINE FREQUENCY	U.S. model: 60±1 Hz European model: 60±1 Hz or 50±1 Hz									
POWER LINE HASH FILTER	Low leakage - BALUN type									
DISPLAY FORMAT	12 lines of 80 characters Character Type 5X7 dot matrix (foreign character fonts; 5X8 when available) Character Size 2.0mm X 4.0mm (.08" X .16") Screen Size 12" diagonal (305mm) rectangular Active Screen Size 210mm X 105mm (8.3" X 4.1")									
CHARACTER SET	64 character upper case ASCII 32 control codes									
KEY LAYOUT	Typewriter rather than keypunch format									
KEYCLICK	Audible sound simulates typewriter feel. Switch Disable for quiet environments.									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SIZE A</td> <td>CODE SP</td> <td>NUMBER VT50-0-1</td> <td>REV B</td> </tr> </table>		SIZE A	CODE SP	NUMBER VT50-0-1	REV B	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SIZE A</td> <td>CODE SP</td> <td>NUMBER VT50-0-1</td> <td>REV B</td> </tr> </table>	SIZE A	CODE SP	NUMBER VT50-0-1	REV B
SIZE A	CODE SP	NUMBER VT50-0-1	REV B							
SIZE A	CODE SP	NUMBER VT50-0-1	REV B							

ENGINEERING SPECIFICATION		CONTINUATION SHEET								
TITLE VT50 ENGINEERING SPECIFICATION										
CHARACTERISTIC	DESCRIPTION									
BELL	Audible alarm sounds when Control G is received and on the 73rd character of a line when keyboard data is being entered.									
TERMINAL MODES	Local Mode Remote Mode: Full Duplex or Full Duplex with Local Copy									
PAGE OVERFLOW	Upward scroll									
PARITY	Even or mark (no parity) switch selectable Odd or space possible with rewiring									
CURSOR Type Control	Blinking underline Up or down one line; right or left one character; home; tab; erase display from cursor position to end of line; erase to end of screen									
HOLD SCREEN MODE	Allows operator to halt transmission from host, preserving data on display. Enabled; disabled by Escape sequences sent by system software or keyboard									
COMMUNICATIONS	20ma current loop standard; EIA interface optional U.S. ASCII extended through Escape Sequences Switch Selectable - <u>Full Duplex:</u> 75, 110, 150, 300, 600, 1200, 2400, 4800 and 9600 baud <u>Full Duplex With Local Copy:</u> 110, 600, 1200, 2400, 4800, 9600 baud (75, 150, 300 are not available in this mode without machine modification) <u>Full Duplex Split Speeds:</u> Transmission at 75, 150, 300 baud with reception at 600, 1200, 2400, 4800, 9600 baud									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SIZE A</td> <td>CODE SP</td> <td>NUMBER VT50-0-1</td> <td>REV B</td> </tr> </table>		SIZE A	CODE SP	NUMBER VT50-0-1	REV B	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SIZE A</td> <td>CODE SP</td> <td>NUMBER VT50-0-1</td> <td>REV B</td> </tr> </table>	SIZE A	CODE SP	NUMBER VT50-0-1	REV B
SIZE A	CODE SP	NUMBER VT50-0-1	REV B							
SIZE A	CODE SP	NUMBER VT50-0-1	REV B							

ENGINEERING SPECIFICATION		CONTINUATION SHEET								
TITLE VT50 ENGINEERING SPECIFICATION										
CHARACTERISTIC	DESCRIPTION									
OPERATOR CONTROLS	Power ON/OFF, Intensity Control, Baud Rate Switch, Terminal Mode Switch, Key-Click ON/OFF, Even/No Parity									
OVERLOAD PROTECTION	Thermal switch									
POWER CONSUMPTION	110 watts									
PLASTIC CASE MATERIAL	Expansion cast ABS or Injection Molded NORYL									
PHOSPHOR	P4									
BAUD RATE SELECTION	Switches on underside of unit									
TRANSMISSION CODE	8 bit ASCII (U.S.)									
TRANSMISSION CODE LENGTH	10 bit 11 bit									
PARITY	Generated on transmission as even parity or a mark (switch selectable) Parity is not checked on reception.									
INTERNAL DATA HANDLING	TTL Microprocessor and UPRT									
DISPLAY MEMORY	MOS STATIC RAM									
VIDEO	Raster scan. Roll free. No need for horizontal hold and vertical hold adjustments.									
CHARACTER GENERATION	MOS ROM (Signetics 2513 or equivalent)									
ERASE FUNCTIONS	Erase from cursor to End-of-Line (ESC K-033,113) Erase from cursor to End-of-Screen (ESC J-033,112)									
STRAPPING OPTIONS	Odd parity, parity bit = space, 60Hz 220/240V									
CURSOR CONTROLS	Cursor Up...ESC A (033,101) Backspace... (010)									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SIZE A</td> <td>CODE SP</td> <td>NUMBER VT50-0-1</td> <td>REV B</td> </tr> </table>		SIZE A	CODE SP	NUMBER VT50-0-1	REV B	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SIZE A</td> <td>CODE SP</td> <td>NUMBER VT50-0-1</td> <td>REV B</td> </tr> </table>	SIZE A	CODE SP	NUMBER VT50-0-1	REV B
SIZE A	CODE SP	NUMBER VT50-0-1	REV B							
SIZE A	CODE SP	NUMBER VT50-0-1	REV B							

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE VT50 ENGINEERING SPECIFICATION			
CHARACTERISTIC	DESCRIPTION		
	Cursor Right...ESC C(033,103) Home.....ESC H Line Feed.....(012) Tab.....(011)		
OPERATOR CONTROLS Right Side Rear Bottom	Power ON/OFF voltage select Brightness control (slide control) Baud rates, full duplex, local, full duplex with local copy. Keyclick switch, EIA switch (EIA card optional). Parity/No Parity switch		
BREAK KEY	When pressed, a 250 millisecond (approx) one shot signal is transmitted		
INTERNAL POWER SUPPLY (these include reserve power specified below)	Overcurrent protected +5 @ 4.5 amps +15 @ 1.65 amp peak, 1.45 amps avg. -12 @ 500ma avg., 650ma peak -5 @ 15ma		
Reserve power for interface options such as EIA card, special DF11 options, etc.	+5 @ 250ma -12 @ 125ma +15 @ 250ma		
INTERNAL TIMING SOURCE	Crystal oscillator 13.824MHz ± .1%		
CHARACTER SPACING	5 dots, 4 spaces to generate well separated easy-to-read characters		
MONITOR ELECTRONICS	100% solid state		
GEOMETRIC DISTORTION	The perimeter of a full field of characters shall approach an ideal rectangle to within ±4% of the rectangle height		
INTERNAL SET-UP CONTROLS (access limited)	Vertical height, Vertical Linearity, Horizontal Size, Focus, Test Pattern Switch		
	SIZE A	CODE SP	NUMBER VT50-0-1 REV B

DEC FORM NO DEC 16-(381)-1022-N370  
DRA 108

SHEET 5 OF 14

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE VT50 ENGINEERING SPECIFICATION			
CHARACTERISTIC	DESCRIPTION		
UL APPROVAL	Units with serial numbers in excess of _____, shall have Underwriter's approval. Units lacking UL stickers shall be assumed not to have UL approval.		
TAB	When TAB (011) is received by the terminal, the cursor is moved to the next tab stop. Tab stops are set every 8 spaces to the 73rd character position, TAB moves the cursor one position to the right.		
VT50 H - (VT50 with direct cursor addressing and 10-key numeric pad).			
	The VT50 H has all of the above VT50 specifications plus the following additional features.		
	SIZE A	CODE SP	NUMBER VT50-0-1 REV B

DEC FORM NO DEC 16-(381)-1022-N370  
DRA 108

SHEET 6 OF 14

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE			
	BLANK (A)	BLANK (B)	BLANK (C)
	7	8	9
	4	5	6
	1	2	3
	0	.	ENTER
			↑
			↓
			→
			←
			ENTER
Key Legend	Code Transmitted	Function	
.	056g	Period	
0 thru 9	060g thru 071g	Numerics 0 thru 9	
ENTER	015g	CR - used to delimit data fields.	
↑	ESC A	Moves the cursor position up one line.	
↓	ESC B	Moves the cursor position down one line.	
→	ESC C	Moves the cursor position to the right one character.	
←	ESC D	Moves the cursor position to the left one character position.	
BLANK (A)	ESC P	Blank keys may be used to implement user functions	
BLANK (B)	ESC Q		
BLANK (C)	ESC R		
	SIZE A	CODE SP	NUMBER VT50-0-1 REV B

DEC FORM NO DEC 16-(381)-1022-N370  
DRA 108

SHEET 7 OF 14

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE			
DIRECT CURSOR ADDRESSING	Direct Cursor Addressing can be invoked in the VT50H and VT50J by two separate commands.		
	The two commands are:		
	1) CNTL N (CAD 16 (8)) "Line" "Column"		
	Through the use of CAD 016 (8), the cursor can be directed to any of the 960 character locations in the CRT screen using three instructions. When the CAD-code is received by the VT50H, it causes the firmware to escape from its normal mode of operation.		
	2) ESC "Y" "Line" "Column"		
	Through the use of ESC "Y", the cursor can be directed to any of the 960 character locations on the CRT screen using three instructions. When the ESC-code is received by the VT50H, it causes the firmware to escape from its normal mode of operation.		
	The next two data words are interpreted as the Y- and X- address in that order. The Y-data word presents the Y-address counter to the selected character line, and the X-data word presents the X-address counter to the selected character position in the selected line. Once the cursor is moved to the new location (or address), the cycle is complete and the next data word received, will perform its normal function.		
	SIZE A	CODE A	NUMBER VT50-0-1 REV B

DEC FORM NO DEC 16-(381)-1022-N370  
DRA 108

SHEET 8 OF 14

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE			
<p>The Y- and X- addresses are determined by subtracting 40 (8), from the received data, and using the result as the new cursor-position. If the Y-address is greater than 13 (8), the cursor will be positioned on the last line. If the X-address is greater than 117 (8), the cursor will be positioned in the last column.</p> <p>Control codes and escape-sequences do not interfere with the execution of a direct cursor addressing sequence.</p> <p>All of the following specifications also apply to the VT50H</p>			
SIZE	CODE	NUMBER	REV
A	A	SP VT50-0-1	B

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE VT50 ENGINEERING SPECIFICATION			
3.0 20ma CURRENT LOOP SPECIFICATION:			
CHARACTERISTIC	DESCRIPTION		
TRANSMITTER	Passive, isolated, goes to the mark state when power is turned off		
Open Circuit Voltage (of the current being driven)	MIN 5.0	MAX 25V	
Voltage Drop Marking	.5V	4.0V	
Spacing Current	.4ma	2.0ma	
Marking Current	20ma	----	
RECEIVER	Passive, isolated		
Voltage Drop Marking	.8V	2.5V	
Spacing Current	0.0ma	3.0ma	
Marking Current	15ma	30ma	
3.1 20ma LOOP TERMINAL STRIP Six 8/32 Screw Terminals Numerals appear on the terminal strip phenolic.			
CHARACTERISTIC	DESCRIPTION		
SCREW 1	15 volts open circuit, output impedance 500 ohms (used for self-test only)		
SCREW 2	Transmit Positive	Tx+	
SCREW 3	Transmit Negative	Tx-	
SCREW 4	Receive Positive	Rx+	
SCREW 5	Receive Negative	Rx-	
SCREW 6	Ground (used for self-test only)		
Self-test is achieved by jumpering 1-2, 3-4, 5-6, and putting the terminal in full duplex.			
SIZE	CODE	NUMBER	REV
A	SP	VT50-0-1	B

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE VT50 ENGINEERING SPECIFICATION			
3.2 CABLE FOR 20ma LOOP			
A cable is supplied with an 8 pin Mate-N-Lok connector for connection to DEC computers. The plug may be cut off and changed as desired. The cable installs under the screw terminals of the terminal strip.			
CHARACTERISTIC	DESCRIPTION		
CABLE LENGTH	4 meters		
CABLE TYPE	4 wires #22 AWG stranded		
CONNECTOR HOUSING TYPE	DEC P/N 12-09340-01 AMP 1-480460		
CONNECTOR PIN TYPE (4 req'd)	DEC P/N 12-09378-03 AMP 350079-4		
CONNECTOR MATES WITH:	DEC P/N 12-09340-00 AMP 1-480459		
FEMALE PINS (4 req'd)	DEC P/N 12-09379-03 AMP 350078-4		
SIGNAL = TRANSMIT POSITIVE	Terminal screw = #2 Wire color = green Mate-N-Lok pin = #7		
SIGNAL = TRANSMIT NEGATIVE	Terminal screw = #3 Wire color = red Mate-N-Lok pin = #3		
SIGNAL = RECEIVE POSITIVE	Terminal screw = #4 Wire color = white Mate-N-Lok pin = #5		
SIGNAL = RECEIVE NEGATIVE	Terminal screw = #5 Wire color = black Mate-N-Lok pin = #2		
Jumpering terminal 3 to terminal 4 allows 2 wire half-duplex operation.			
3.3 BAUD RATES VS. DISTANCE FOR INTEGRAL 20ma LOOP Greater than 100 feet at any baud rate when connected to an M596  Greater than 1000 feet at any baud rate when connected to an M5960			
SIZE	CODE	NUMBER	REV
A	SP	VT50-0-1	B

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE VT50 ENGINEERING SPECIFICATION			
4.0 EIA CARD SPECIFICATIONS			
The EIA card is an extra cost option consisting of a customer installable cable assembly. The cable has 2 chips which convert to EIA levels.			
CHARACTERISTIC	DESCRIPTION		
LENGTH OF CABLE	4 meters		
CONNECTOR	Cannon DB 19604-432 or equivalent Male 25 position connector		
EIA PIN #1	Signal: protective ground Comment: Logic 1 = off = -10V		
EIA PIN #2	Signal: transmitted data Comment: Logic 0 = on +10V		
EIA PIN #3	Signal: received data Comment: Logic 1 = off = -5 to 25V Logic 0 = on +5 to 25V		
EIA PIN #4	Signal: request to send Comment: wired true (+10V)		
EIA PIN #7	Signal ground		
EIA PIN #20	Signal: data terminal ready Comment: wired true (+10V)		
ALL OTHERS	No connection		
The VT50 meets RS-232C by using the Motorola MC 1488 RS-232C line driver and MC 1489 RS0232C line receiver.			
The EIA card is a customer installed option.			
SIZE	CODE	NUMBER	REV
A	SP	VT50-0-1	B

ENGINEERING SPECIFICATION CONTINUATION SHEET

TITLE VT50 ENGINEERING SPECIFICATION

5.0 EIA CARD INTERNAL CONNECTIONS

The EIA card is supported by two rows of straight pins which accept AMP CIS Top Entry connectors (AMP P/N 6-380950-0) or AMP cable housing (AMP P/N 1-350092-0 with contacts 350090-1) for cable connection to custom interfaces. One row of pins is only for card support. Signals available on the other row are:

CHARACTERISTIC	DESCRIPTION
PIN #1	Signal name: +5V @ 250ma
PIN #2	Signal name: -12V @ 125ma
PIN #3	Signal name: +15V @ 250ma
PIN #4	Ground
PIN #5	TTL received data
PIN #6	TTL transmitted data

6.0 INITIALIZING

Powering up the unit causes the VT50 to initialize. The power ON/OFF switch on the right side of the VT50 is recommended for initialization.

Initialization causes the entire screen to be cleared and cursor moved to the home position (upper left hand corner).

Initialization on some VT50's may be achieved by holding the control key down then pressing and releasing the break key. It is anticipated that this feature will be deleted at some later date as the initialize function is achieved by the power switch.

7.0 BREAK KEY

Depressing the break key forces the serial line to a space condition (zero current) for .15 to .40 seconds (.25 sec. nominal). This feature is provided for users with software written to operate in Half-Duplex.

**CAUTION:** THE BREAK KEY FUNCTIONS EVEN IN LOCAL MODE!

SIZE	CODE	NUMBER	REV
A	SP	VT50-0-1	B

ENGINEERING SPECIFICATION CONTINUATION SHEET

TITLE VT50 ENGINEERING SPECIFICATION

8.0 TV PICTURE QUALITY

The character resolution shall not vary markedly across the screen nor shall there be excessive pin-cushion nor excessive barrel distortion. What is acceptable shall be that which is acceptable to the untrained observer such as a clerk typist. The picture must be clear, easy to read and free of visual defects that impair readability.

The horizontal centering shall be such that the distance of the left hand character on the sixth line from the left screen boundary is within 13mm ( $\frac{1}{2}$ " ) of the distance from the right most character on the sixth line to the right screen boundary.

The vertical centering shall be such that the distance of the top screen edge to the 40th character on line 1 shall be within 13mm ( $\frac{1}{2}$ " ) of the distance of the bottom screen edge to the 40th character on the twelfth line.

The screen image shall appear parallel to the table surface.

SIZE	CODE	NUMBER	REV
A	SP	VT50-0-1	B

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in any manner without the written permission of Digital Equipment Corporation.

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION				DATE 12/23/74		
TITLE VT50 ACCEPTANCE TEST						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	ECO CHANGE	VT50-00003	MORGANSTERN	3-75	<i>[Signature]</i>	3-25-75
B	REPLACED SHT'S 2 & 3	VT50-00008	BUZYNSKI	4-75	<i>[Signature]</i>	4-24-75

Upon removal from shipping container, inspect for physical damage, then make the following checks before connecting your VT50 terminal to system:

1) **LOCAL MODE CHECK:**  
Set terminal, using a screwdriver or small coin, to "Local Mode" and "9600" baud as shown on label mounted to underside of terminal. Plug terminal into line, move the ON/OFF slide switch located on the right side of terminal to the ON position.

After a one minute warm-up period, a flashing cursor should appear on the screen. If nothing is seen or display is too bright, reach over and adjust the intensity control on the rear of the terminal at the top right hand corner. Control moves to the right for increased brightness.

Check for terminal to display characters as keys are depressed.

2) **REMOTE MODE CHECK - FULL DUPLEX:**  
Set terminal for full-duplex operation, locate terminal strip, with screws numbered 1 through 6 on underside, jumper 1 and 2 together, then 3 and 4, and finally 5 and 6. Use any wire for jumpers.

The terminal should now display characters as keys are depressed.

ENG <i>[Signature]</i>	APPD <i>[Signature]</i>	SIZE A	CODE SP	NUMBER VT50-0-2	REV B
------------------------	-------------------------	--------	---------	-----------------	-------

ENGINEERING SPECIFICATION				CONTINUATION SHEET	
TITLE VT50 ACCEPTANCE TEST					
as follows:					
<u>Terminal</u>	<u>Character displayed on screen</u>				
VT50A	A				
VT50B	B				
VT50H	H				
VT50J	H				
C.) Press the "REPEAT" key and the "A" key; the letter A should repeat as long as both keys are down.					
4) <b>ON-LINE ACCEPTANCE TEST</b> Connect VT50 to a PDP-11 computer via a DL11-A/B interface. Load and run the VT50 acceptance test program for at least one pass.					
MAINDEC-11-DZVTC- (Latest Revision)					
		SIZE A	CODE SP	NUMBER VT50-0-2	REV B

ENGINEERING SPECIFICATION				CONTINUATION SHEET	
TITLE VT50 ACCEPTANCE TEST					
3) <b>HALF-DUPLEX, ESCAPE AND CONTROL COMMAND CHECKS:</b> Remove jumpers 1 and 2, and 3 and 4, then add a jumper from 1 to 4 on the terminal strip. Set terminal for half-duplex operation, then depress keys and check for corresponding characters on screen.					
<u>Erase Functions:</u>					
a. Type some characters on all 12 lines					
b. With cursor on the bottom line, press "CTRL M;" check for cursor to move to the left-most position on that line.					
c. Press "ESC K"; check for all characters on the bottom line to be erased.					
d. Press "ESC H"; check for cursor to go to the top left of screen.					
e. Press "ESC J"; check for all characters on the screen to be erased.					
<u>Move Cursor Functions:</u>					
A. All VT50 Models					
a. Press "ESC C"; cursor should move to right, repeat until cursor is in the center of screen.					
b. Press "CTRL J"; cursor should move down one line.					
c. Press "ESC A"; cursor should move up one line.					
d. Press "CTRL H"; cursor should move left one position.					
e. Press "CTRL I"; cursor should move to the next TAB stop.					
B. VT50H, VT50J only (direct cursor addressing and numeric pad)					
a. Press "ESC H" on numeric pad; cursor should move to the home position on the screen (1st character on 1st line).					
b. Fill the screen with miscellaneous characters.					
c. Press "CTRL N" "+" "SPACE"; the cursor should move to the 1st character position on the last (12th) line on the screen.					
d. Press "CTRL N" "!"; the cursor should move to the 64th character position of the 2nd line on the screen.					
e. Press "CTRL N" "SPACE" "SPACE"; The cursor should move to the home position on the screen.					
f. Repeat steps a thru e replacing the "CTRL N" with "ESC Y".					
<u>Hold Screen Mode Functions:</u>					
a. Place cursor on bottom line					
b. Press "ESC L"; Hold Screen Mode					
c. Press "LF" key					
d. Type "VT50" - check characters do not appear on the screen					
e. Press "SCROLL" key - the message "VT50" should now appear on the screen					
f. Press "ESC \"; exit Hold Screen Mode					
g. Press "LF" key - check for message to scroll up					
<u>Miscellaneous Functions:</u>					
a. Press "CTRL G"; check for buzzer to ring					
b. Press "ESC Z"; check for the character to appear on the screen					
		SIZE A	CODE SP	NUMBER VT50-0-2	REV B



This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION				DATE 12-19-74		
TITLE VT50 Manufacturing Acceptance Specification						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
*	Original Release	H/A		12-19-74		
A	ADD CRT BLEMISH SPEC.	00009	MORGANSTERN	5-22-75	<i>Morganstern</i>	30 Aug 75

ENG <i>[Signature]</i>	APPD <i>[Signature]</i>	SIZE A	CODE SP	NUMBER VT50-0-3	REV A
------------------------	-------------------------	-----------	------------	--------------------	----------

DEC FORM NO DEC 16-(381)-1079-N370  
DRA 107

ENGINEERING SPECIFICATION				CONTINUATION SHEET	
TITLE VT50 Manufacturing Acceptance Specification					
<p><b>1.0 SCOPE:</b></p> <p>The purpose of this specification is to set a manufacturing standard to which all VT50's are produced. The specifications set forth in this document are more stringent than the VT50 Engineering specification. This insures DEC, as a manufacturer, that when a customer receives his VT50 it will meet the Engineering Specification.</p>					
<p><b>2.0 TESTING</b></p> <p>All VT50's will undergo two stages of testing module test and VT50 system test. Refer to Test Plan/Flow.</p>					
<p><b>2.1 Module Test</b></p> <p>All VT50 modules and VT50 option modules (Copier, EIA) will be tested initially by and not be assembled into a VT50 until successfully passing their respective module test.</p> <p>This will insure that when a VT50 is assembled that each module is at least 90% good.</p>					
<p><b>2.2 VT50 System Testing</b></p> <p>All VT50 will undergo at least 48 hours of hot/cold cycle testing while being exercised by the VT50 Acceptance Test Program MAINDEC-11-DZVTC-A. The parameters of this testing are stated in Figure 1.</p>					
<p>FIGURE 1</p> <p>Skeleton burn-in 2 complete cycles. Final burn-in 6 complete cycles.</p>					
<p><b>2.2.1 Vibration Testing</b></p> <p>All VT50's will be vibration tested with a full screen of characters.</p>					
<p><b>2.2.2 Keyboard Diagnostic Test</b></p> <p>The Keyboard Diagnostic Test will be performed twice</p>					

SIZE A	CODE SP	NUMBER VT50-0-3	REV A
-----------	------------	--------------------	----------

DEC FORM NO DEC 16-(381)-1022-N370  
DRA 108

ENGINEERING SPECIFICATION				CONTINUATION SHEET	
TITLE VT50 Manufacturing Acceptance Specification					
<p>during system testing---before skeleton burn-in and after Vibration Test.</p>					
<p><b>2.2.3. Final Acceptance Test</b></p> <p>Final Acceptance Testing is a communication test which tests the ability of a VT50 to communicate over a 20ma serial loop 1000 feet long to another VT50 device at all baud rates.</p>					
<p><b>2.2.4 48 Hour Ambient</b></p> <p>All VT50's undergo 48 hours of final testing at ambient temperatures while being exercised by the VT50 Acceptance Test Program.</p>					
<p><b>2.2.5 Failures</b></p> <p>All failures detected during Module Testing and VT50 System Testing will be repaired in accordance with VT50 Module Repair and Rework Procedure. Failures will not constitute the resetting to zero the time of any of the VT50 system tests except in the case when a module or modules are replaced, and only then if the modules used for replacement have not previously passed the test which the unit failed in.</p>					
<p><b>3.0 VT50 Picture Quality</b></p> <p>The VT50 picture quality shall be in conformance with this specification before being shipped.</p>					
<p>Active Screen Size: Vertical 105mm ± 2mm Horizontal 210mm ± 2mm</p>					
<p>** Character Size: Vertical 4mm ± .4mm Horizontal 2mm ± .4mm</p>					
<p>Centering: Vertical A difference of no greater than 7mm between the top and bottom margins* at the vertical center of the screen (40th character.).</p> <p>Horizontal A difference of no greater than 7mm between the right and left margins* at the horizontal center of the screen's sixth line.</p>					
<p>* The vertical and horizontal margins are the non-displayed area on the CRT between the shell and Active Screen Size. ** Character size dependant on the active screen size.</p>					

SIZE A	CODE SP	NUMBER VT50-0-3	REV A
-----------	------------	--------------------	----------

DEC FORM NO DEC 16-(381)-1022-N370  
DRA 108

ENGINEERING SPECIFICATION				CONTINUATION SHEET													
TITLE VT50 MANUFACTURING ACCEPTANCE SPECIFICATION																	
<p><b>Rotation:</b> The active screen shall be square within ±5mm of the shell surface above the keyboard as measured between the first character on the 12th line and the shell surface and the 80th character on the 12th line and shell surface.</p>																	
<p><b>Pin Cushion Distortion:</b></p> <p>Vertical ±2mm at each corner char. Horizontal ±1mm at each corner char.</p>																	
<p><b>Barrel Distortion:</b></p> <p>Vertical ±2mm at each corner char. Horizontal ±1mm at each corner char.</p>																	
<p><b>3.1 SCREEN BLEMISH CRITERIA</b></p> <p>Opaque spots, blisters and defects in the screen and glass. Size - .025" maximum Number - 2 maximum, between .010" to .025" with 3" minimum separation. Disregard all under .010".</p>																	
<p><b>4.0 PRE-SHIPMENT SETTINGS AND CONNECTIONS</b></p> <p>To have consistency on all VT50's shipped the following settings/connections should be made:</p>																	
<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Baud Rate</td> <td style="width: 30%;">S2-G 960 baud</td> <td style="width: 30%;">Key click</td> <td style="width: 10%;">on</td> </tr> <tr> <td>Local Remote</td> <td>S1-1 Local</td> <td>Parity, no Parity</td> <td>No Parity</td> </tr> <tr> <td>Power ON/OFF</td> <td>Off</td> <td>20ma, EIA</td> <td>20ma</td> </tr> </table>						Baud Rate	S2-G 960 baud	Key click	on	Local Remote	S1-1 Local	Parity, no Parity	No Parity	Power ON/OFF	Off	20ma, EIA	20ma
Baud Rate	S2-G 960 baud	Key click	on														
Local Remote	S1-1 Local	Parity, no Parity	No Parity														
Power ON/OFF	Off	20ma, EIA	20ma														
<p>Serial Line Cable connected to the 20ma loop terminal strip.</p>																	
<table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">Terminal 1</td> <td style="width: 15%;">NC Tighten Screw</td> </tr> <tr> <td>Terminal 2</td> <td>Green Wire</td> </tr> <tr> <td>Terminal 3</td> <td>Red Wire</td> </tr> <tr> <td>Terminal 4</td> <td>White Wire</td> </tr> <tr> <td>Terminal 5</td> <td>Black Wire</td> </tr> <tr> <td>Terminal 6</td> <td>NC Tighten Screw</td> </tr> </table>						Terminal 1	NC Tighten Screw	Terminal 2	Green Wire	Terminal 3	Red Wire	Terminal 4	White Wire	Terminal 5	Black Wire	Terminal 6	NC Tighten Screw
Terminal 1	NC Tighten Screw																
Terminal 2	Green Wire																
Terminal 3	Red Wire																
Terminal 4	White Wire																
Terminal 5	Black Wire																
Terminal 6	NC Tighten Screw																

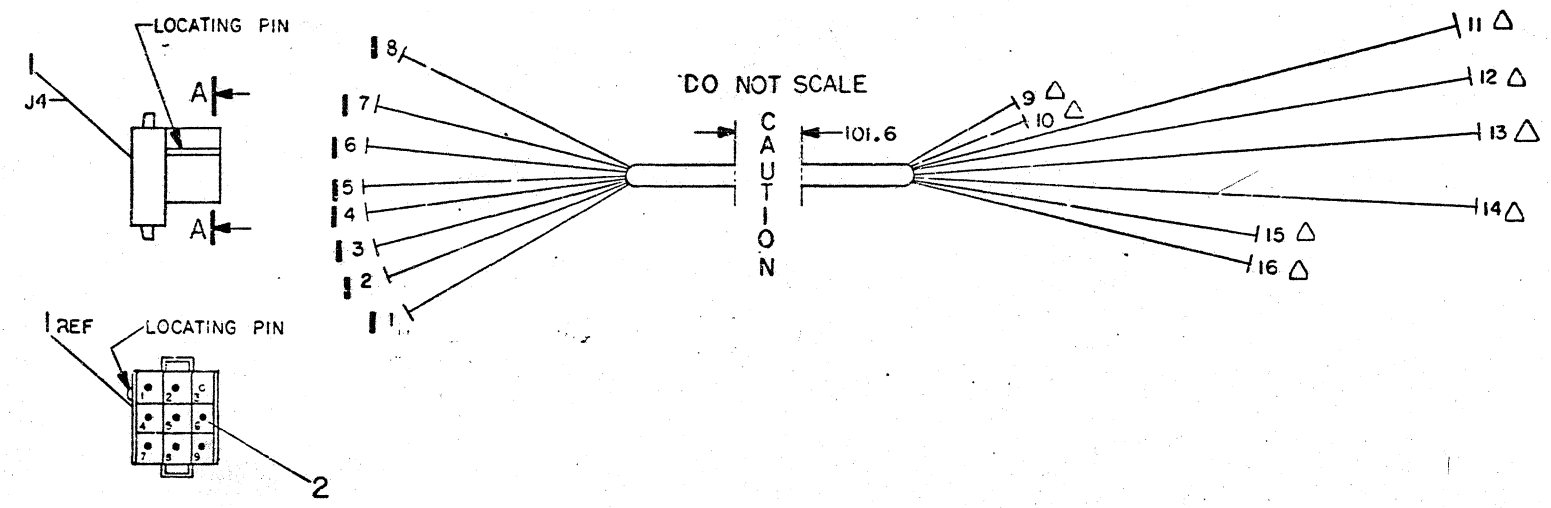
SIZE A	CODE SP	NUMBER VT50-0-3	REV A
-----------	------------	--------------------	----------

DEC FORM NO DEC 16-(381)-1022-N370  
DRA 108

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975 DIGITAL EQUIPMENT CORPORATION

WIRE TABLE									
ITEM	DESCRIPTION	FROM			TO			WIRE LENGTH	
		NO	AWG	COLOR	POINT	CONNECTION	WITH		POINT
3	18	BLU	1	J4-7	ITEM#2	15	---	TIN	390 MM
3	▲	BLU	2	J4-3	▲	16	---	▲	390 MM
4	▲	BLU/BLK	3	J4-9	---	11	---	---	450 MM
5	▼	VIO	4	J4-4	---	9	---	---	300 MM
5	▼	VIO	5	J4-5	---	10	---	---	300 MM
6	▼	VIO/ELK	6	J4-6	---	12	---	▼	450 MM
7	▼	GRN	7	J4-1	---	13	---	TIN	450 MM
7	18	GRN	8	J4-2	ITEM#2	14	---	ITEM#9	500 MM

NOTES:



VIEW A A  
REAR VIEW  
SCALE--NONE

DO NOT REDUCE  
152.4MM

304.8MM

FOR MANUFACTURING PURPOSES ONLY

METRIC DIMENSIONS

ITEM NO.	DESCRIPTION	DWG. PART NO.	ITEM NO.
1	TERMINAL RING (BLUE)	9007927	3
7	WIRE #18 AWG (GRN)	9107360-55	7
6	WIRE #18 AWG TRACER (VIO/BLK)	9107410-70	6
5	WIRE #18 AWG (VIO)	9107360-77	5
4	WIRE #18 AWG TRACER (BLU/BLK)	9107410-60	4
3	WIRE #18 AWG (BLUE)	9107350-66	3
2	PIN. (MALE)	1209378-06	2
1	CONN. 9 PIN. (MALE)	1209351-09	1

SYMBOLS	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS	
	ANGLES	CLASS OF ACCURACY
QUANTITY & VARIATION	MICROINCHES	
	PREFERRED	
THIRD ANGLE PROJECTION	DRN: [Signature]	FIRST USED ON: VTS0 digital
REMOVE BURRS AND BREAK SHARP CORNERS	CHK: [Signature]	TITLE: HARNESS, POWER SUPPLY
DO NOT SCALE DWG	PROJ. ENG: [Signature]	SCALE: 1/1
MATERIAL SEE PARTS LIST	PROD: [Signature]	SHEET 1 OF 1
FINISH		

SEC FORM NO. 84-150

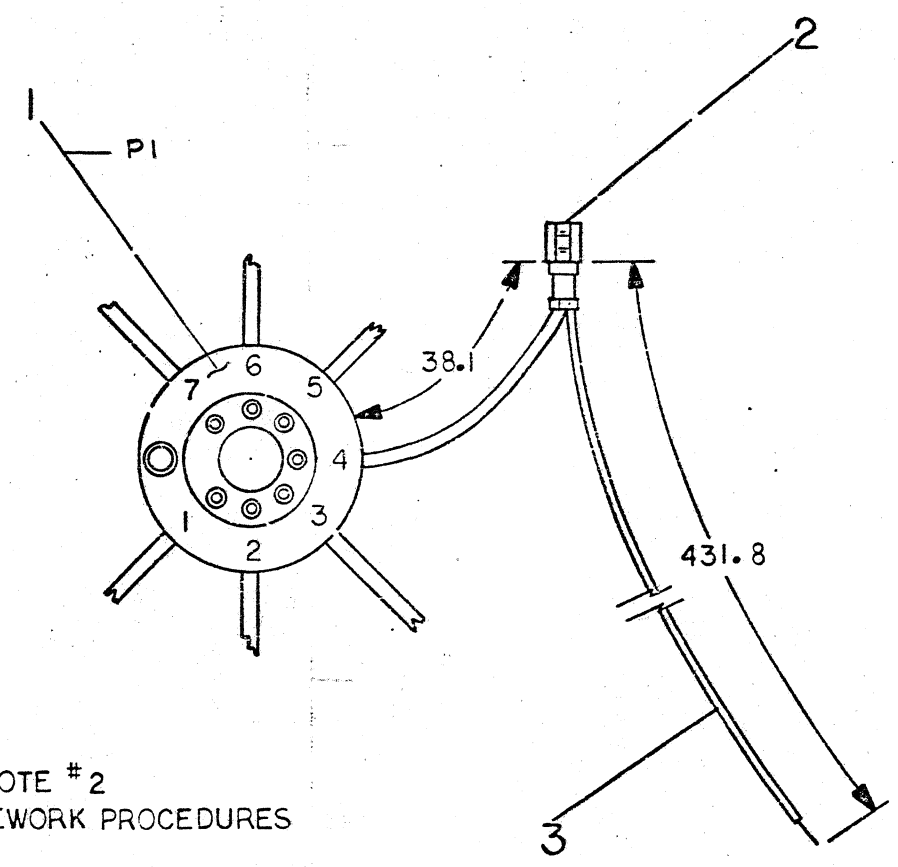
1-1A 701186-0-0





"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975 DIGITAL EQUIPMENT CORPORATION"

- NOTES :
1. REWORK FROM PURCHASE SPEC. DWG. C-PS-121217-0-0
  2. CUT BLACK WIRE 38.1 MM FROM PIN 4 CONNECTION AND STRIP INSULATION BACK 6.3MM USE WIRE (ITEM #3) CUT INSULATION BACK 6.3MM ON BOTH ENDS AND CONNECT ONE END OF EACH WIRE TO TERMINAL (ITEM #2) AS SHOWN.



SEE NOTE #2 FOR REWORK PROCEDURES

METRIC DIMENSIONS

REV.	CHANGE NO.	REVISIONS

QTY	DESCRIPTION	DWG./PART NO.	ITEM NO.
431 MM	WIRE #22AWG STRD (ELK)	9107350-00	3
1	TERMINAL QUICK CONNECT	9007970	2
1	HARNESS CRT	C-PS-121217-0-0	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS						
ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE MILLIMETER				
		OVER 1 TO 5	OVER 5 TO 30	OVER 30 TO 100	OVER 100 TO 300	OVER 300 TO 1000
SURFACE QUALITY IN	MEDIUM	±0.1	±0.2	±0.3	±0.4	±0.6
	PREFERRED	±0.3	±0.4	±0.6	±1.0	±1.6

THIRD ANGLE PROJECTION	DRN: George Deane 4/18/75	FIRST USED ON	VT50
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D: [Signature]	TITLE	HARNESS, CRT REWORK
DO NOT SCALE DWG	PROJ. ENG: [Signature]	SIZE	2 IA
MATERIAL SEE PARTS LIST	PROD. [Signature]	CODE	7413948-0-0
FINISH	SCALE NONE	NUMBER	
	SHEET OF 1	DIST.	

7413948-0-0



THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974 DIGITAL EQUIPMENT CORPORATION

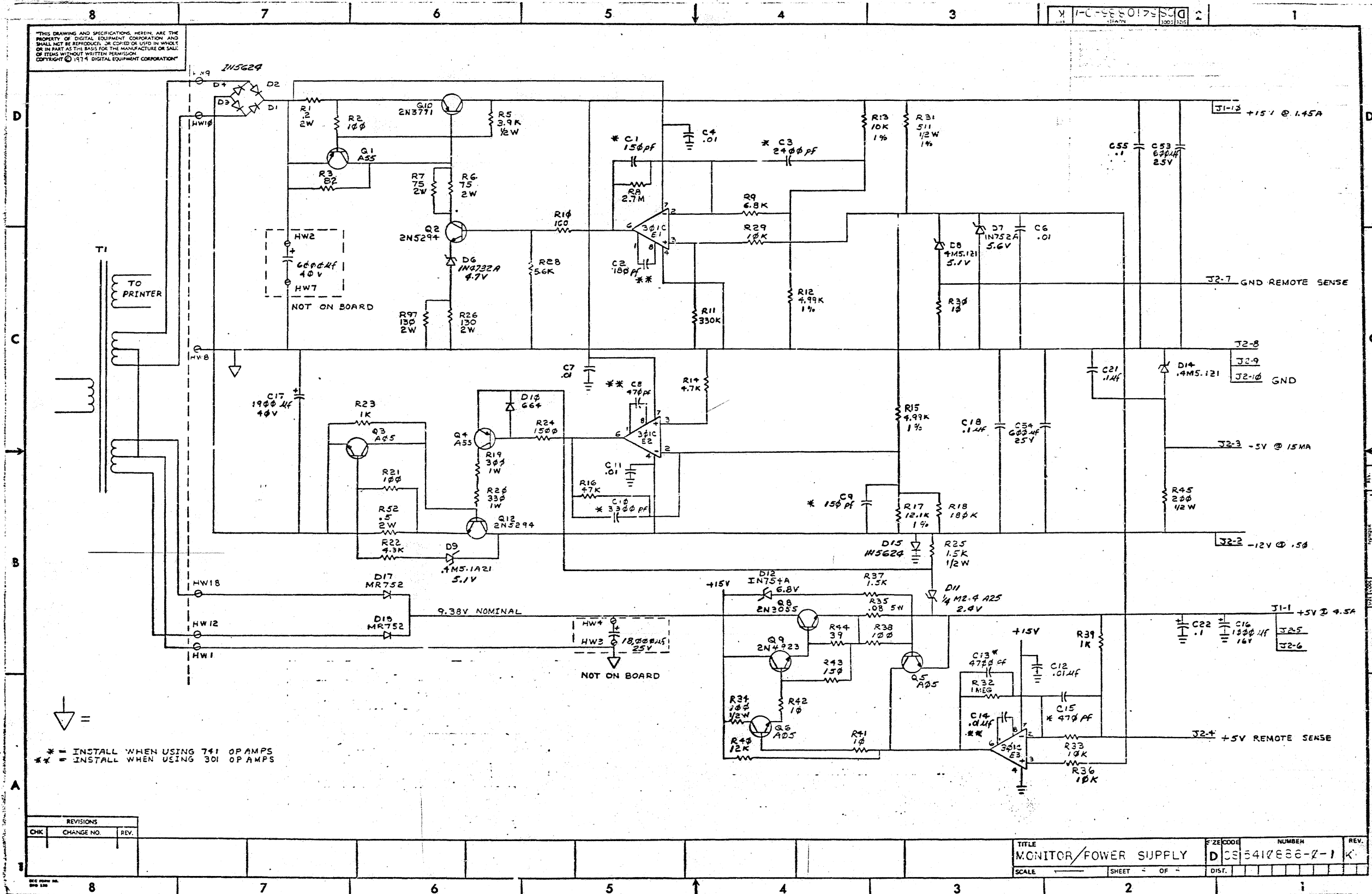
8				7				6				5				4				3				2				1																																																																																																																																																																																																																																																																																																																																																							
QTY	REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.	QTY	REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.	QTY	REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.	QTY	REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.	QTY	REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.																																																																																																																																																																																																																																																																																																																																																						
1	R2B		RES 5.6K 1/4W 5%	13-01874	116	1	R76		RES. 620 1/4W 5%	1303178	55	1	R23	90 58 81 84 84	RES. 1K 1/4W 5%	1300365	56	2	R80,87		RES. 2K 1/4W 5%	1302388	57	5	R29,33,36,60,95		RES. 10K 1/4W 5%	1300479	58	3	R34,91,54		RES. 100K 1/4W 5%	1302466	59	1	R56		RES. 120K 1/4W 5%	1300539	60	1	R75		RES. 150K 1/4W 5%	1302396	61	2	R58,R69		RES. 470K 1/4W 5%	1302398	62	1	R62		RES. 680 1W 5%	1300346	63	2	R72,R74		RES. 270K 1/4W 10%	1301310	64	2	R53,65		RES. 470 1/4W 5%	1300316	65	1	R77		RES. 120 1W 5%	1301838	66	2	R34,89		RES. 100 1/2W 5%	1300228	67	2	R96,99		RES. 2.7K 1W 10%	1309023	68	1	R1		RES. .2 3W 3% W/W	1311604	69	1	R35		RES. .08 5W 3% W/W	1311603	70	4	R2,21,38,10		RES. 100 1/4W 5%	1300229	71	2	R7,27		RES. 130,2W 5%	1304932	72	1	R52		RES. 1 MEG 1/4W 5%	1309595	73	1	R9		RES. 6.8K 1/4W 5%	1301423	74	1	R11		RES. 330K 1/4W 5%	1302091	75	1	R13		RES. 10K 1/8W 1%	1303312	76	2	R12,15		RES. 4.99K 1.8W 1%	1305324	77	1	R31		RES. 511 3/4W 1%	1300324	78	1	R52		RES. 0.5 3W 3%	1311611	79	1	R16		RES. 47K 1/4W 5%	1302177	80	1	R14		RES. 4.7K 1/4W 5%	1300447	81	1	R17		RES. 12.1K 1.8W 1%	1303213	82	1	R45		RES. 200 1/2W 5%	1302381	83	1	R5		RES. 3.9K 1/2W 5%	1300443	84	1	R22		RES. 4.3K 1/4W 5%	1302389	85	2	R37,24		RES. 1.5K 1/4W 5%	1300391	86	1	R40		RES. 12K 1/4W 5%	1300488	87	2	R6,7		RES. 15 2W 5%	1303039	88	1	R8		RES. 2.7M 1/2W 5%	1309680	89	3	R30,12,41		RES. 10 1/4W 5%	1301317	90	1	R3		RES. 82 1/4W 5%	1301477	91	1	R43		RES. 150 1/4W 5%	1300250	92	1	R44		RES. 39 1/4W 5%	1302371	93	1	R18		RES. 190K 1/4W 5%	1302397	94	1	R19		RES. 300 1W 5%	1300292	95	1	R25		RES. 1.5K 1/2W 5%	1300394	96	1	R20		RES. 330 1W 5%	1300297	97	1	R98		RES. 500 POT BLUE	13-11853-00	98	1	R71		RES. 1 MEG POT CLEAR	13-11853-02	99	1	R92		RES. 50K POT RED	13-11853-01	100	1	R93		RES. 250K	13-11844	101	1	R66		RES. 5K, 10%, 10W	13-11842	102	1	R47		RES. 3K 1/4W 5%	13-02394	103	1	Q17		TRANS. D45C6	1510414	104	2	Q15,18		TRANS. 2N3725	1510959	105	1	Q13		TRANS. 2N2904A	1501913	106	4	Q14,20,21,22		TRANS. 2N3904	1509524	107	1	Q10		TRANS. 2N3771	1509531	108	2	Q1,4		TRANS. MXA55	1510706	109	2	Q2,12		TRANS. 2N5294	1510377	110	3	Q5,6,3		TRANS. MXA02	1510705	111	1	Q8		TRANS. 2N3055	1505819	112	1	Q9		TRANS. 2N4923	1509604	113	1	Q16		TRANS. D44CB	1510421	114	1	Q19		TRANS. BUY60C B0Y98	15-11852	115
52		W1,2,3,4,W6,W8,W15,W19, W20,W28,W34,W39,W40,W42, W43,W45,W50,W53,W58 W7,W16,W17,W18,W21,W25, W27,W33,W35,W39,W41,W44, W56,W57,W59,W60,W61,W62	JUMPERS .6 #22 WIRE	9107560-1	128																																																																																																																																																																																																																																																																																																																																																																														

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: MONITOR POWER SUPPLY  
 SCALE: SHEET 2 OF 4  
 SIZE CODE: DCS5410886-0-1  
 NUMBER: 1510414  
 REV.:



THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED, COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974 DIGITAL EQUIPMENT CORPORATION

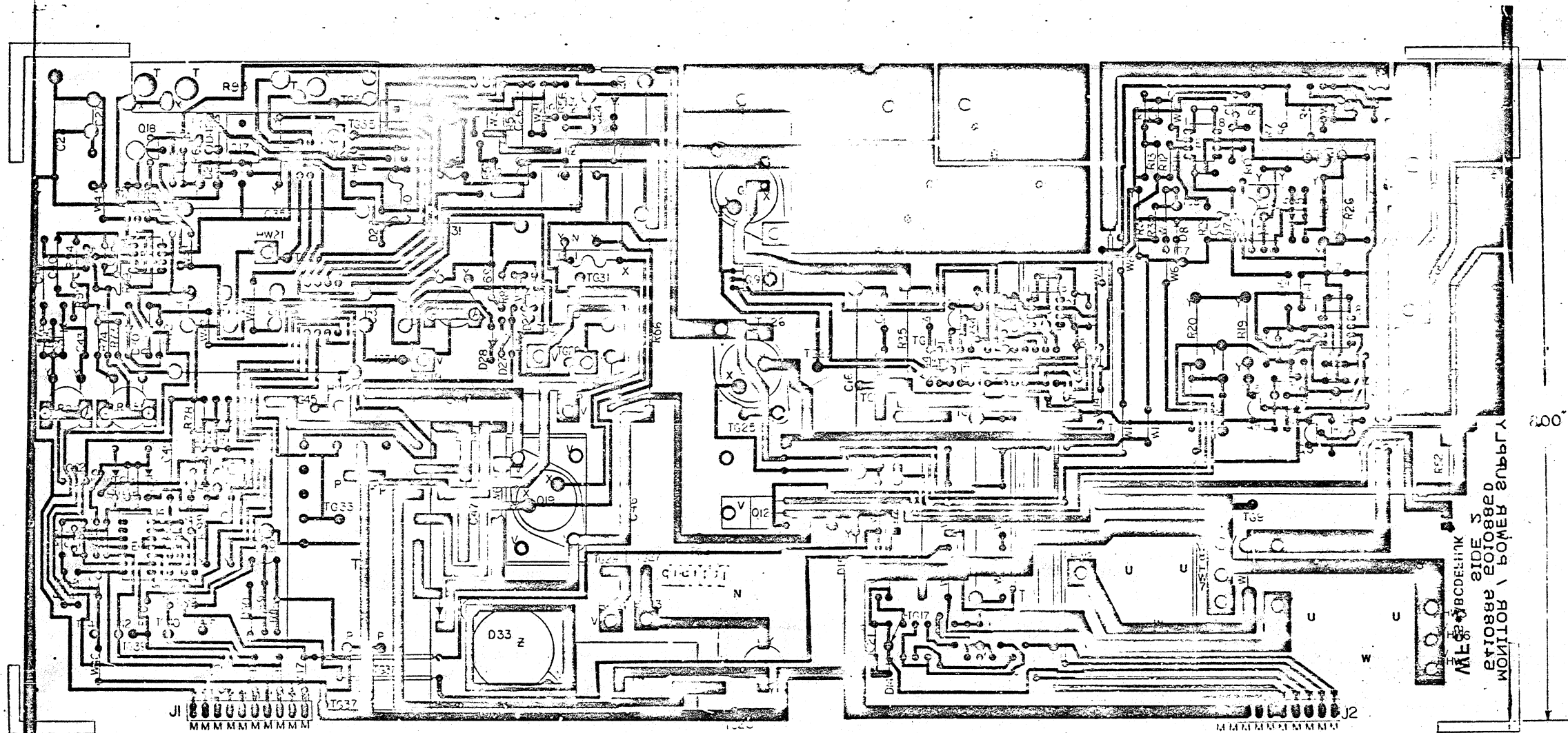


\* = INSTALL WHEN USING 741 OP AMPS  
 \*\* = INSTALL WHEN USING 301 OP AMPS

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
MONITOR/POWER SUPPLY	D	CS	5410886-Z-1	1
SCALE	SHEET	OF	DIST.	





**NOTES:**  
 1. Z,W,U, HOLES TO BE PUNCHED WITH PERIPHERY DIE. REF. DWG. E-1A-5010865-0-0.  
 2. NO REFERENCE HOLES OR IDENTIFICATION CLUSTERS.  
 3. USE NEW EXCELLEN OFFSET 142.

HOLE LETTER	DRILL SIZES		CENTRE STRIPLETS YES NO	QTY OF HOLES
	BEFORE PLATE	AFTER PLATE		
NONE				
Y	3/16 (.1875)	3/16 (.1875)		63
V	1/8 (.125)	1/8 (.125)		2
M	3/32 (.09375)	3/32 (.09375)		40
W	3/32 (.09375)	3/32 (.09375)		2
U	1/8 (.125)	1/8 (.125)		2
N	1/8 (.125)	1/8 (.125)		7
Z	1/8 (.125)	1/8 (.125)		1
P	1/8 (.125)	1/8 (.125)		2
T	1/8 (.125)	1/8 (.125)		3

**BOARD FABRICATION INFORMATION**  
 BOARD SIZE 8X18  
 BOARD MATERIAL 2oz STOCK  
 USE COPPER  
 EYELET  PLATED THRU   
 1 SIDED  MULTI-LAYER   
 NOTCH BEFORE GOLD PLATING   
 NOTCH AFTER GOLD PLATING

DATE	DATE	DATE	DATE	DATE	DATE
DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY
CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY
E JAH			5410866-0-5		
MONITOR POWER SUPPLY					
MS 40311					

REV. NUMBER SIZE CODE

PRODUCT LINE 98  
 DATE RELEASED 10-75  
 RELEASED BY M. MORGANSTEIN

MODULE ECO HISTORY  
 PAGE 1 OF 1

RELEASED CS REV P  
 RELEASED ETCH BD REV 3

ECO. NO.	ORIGINATOR	DATE WRITTEN	NEW CS REV.	NEW ETCH BOARD REV.	IS IT MANDATORY TO REWORK ALL EARLIER VERSIONS (NOW AVAILABLE OR RETURNED FOR REPAIR) TO THIS REVISION LEVEL?			ARE ALL REVISIONS OF THIS MODULE COMPLETELY COMPATIBLE NOW (CAN BE MIXED INDISCRIMINATELY)?			SIMPLIFIED CHANGE DESCRIPTION	NO. PARTS ADDED	NO. PARTS DELETED
					YES	NO	CONDITIONAL (EXPLAIN)	YES	NO	CONDITIONAL (EXPLAIN)			
00001	P. PUCCI	1-27-75	C	—		X		X			CHANGED COMP VALUES MADE SEVERAL ETCH CUTS	13	11
00002	R. PUCCI	3-6-75	D	C		X		X			CHANGED COMP VALUES MADE SEVERAL ETCH CUTS CORRECTED ERRORS IN PARTS LIST		
00003	WHITTLESEY	3-24-75	E	—		X		X			ADD TWO DIODES TO PROTECT ES	2	0
00004	R. PUCCI	4-17-75	F	—		X		X			ADD TWO CAPS	2	0
00004A	R. PUCCI	5-8-75	F	—		X		X			CANCEL ECO 4		
00005	M. HASTINGS	4-16-75	H	D		X		X			ADJUSTED ETCH UP TO LATEST ECO'S TO CS.	0	0
00006	DICKENSON	3-28-75	F	—		X		X			ADD 80V TO FOCUS POT	1	0
00007	R. DICKERSON	7-7-75				X		X			ADD ASSY PRINT TO PRINT SET	8	0
00008	R. DICKERSON	5-16-75	K	—		X		X			ADDED CAP CS1 TO IMPROVE CHARACTER	1	0
00009	R. DICKERSON	6-20-75	L	—		X		X			ADD ASSY PRINT TO PRINT SET	8	0
0007A	R. DICKERSON	7-28-75	L	—		X		X			ADD 15 HOLES TO BOARD. DISREGARD CHANGE DESCRIPTION ON WH-5410286-0-8 ECO 7	0	0

REVISIONS	CHK'D	DATE
00001 A		
00002 B		
00003 C		
00004 D		
00005 E		
00006 F		
00007 J		
00008 K		
00009 L		
0007A M		

DRN E. Wilson DATE  
 CHK'D Pucci DATE  
 ENG. Morganstein DATE  
 PROD. Morganstein DATE

**EQUIPMENT CORPORATION**  
 MAYNARD, MASSACHUSETTS

TITLE: **MODULE ECO HISTORY**

SIZE: B CODE: NUMBER: 5410286-0-8 REV: M



**DIGITAL EQUIPMENT CORPORATION**  
MAYNARD, MASSACHUSETTS

**INCOMING INSPECTION PROCEDURE**      DATE *6/30/75*

TITLE    VT50 Heat Spreader

REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
*	Original Release		<i>C. Miller</i>	<i>6/30/75</i>	<i>R. B. Brown</i>	<i>7-1-75</i>

ENG *C. Miller*    APPD *R. B. Brown*  
 DEC 3-(491)-1283-N670

SIZE CODE    NUMBER    REV  
 A    II    7412849-0-0

SHEET 1 OF 2

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

**INSPECTION PROCEDURE**    CONTINUATION SHEET

TITLE    VT50 Heat Spreader

- 1.0 Inspection by attributes.
- 1.1 All other dimensions and/or characteristics pertaining to 7412849 that are not listed must be inspected on 20% of the sample size from each lot. All defects must be listed and inspected on the entire A.Q.L. sample. Parts must conform completely to print.
- 1.2 Applicable document DEC Metal Quality Manual.

CHARACTERISTICS	PROCEDURE
2.1 Check position of 10 #8-32 inserts	Use fixture #94-02147-3
2.2 Check position of holes; on surface "B"	Use fixture #94-02148-3
2.3 Check for finish	Visual
2.4 Check for "D" hole for masking	Visual
2.5 Material thickness	Vernier calipers
2.6 Workmanship	Visual

DEC 3-(332)-1283-1A-R175

SIZE CODE    NUMBER    REV  
 A    II    7412849-0-0

SHEET 2 OF 2

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PER. 25274  
 COPYRIGHT © 1975 DIGITAL EQUIPMENT CORPORATION

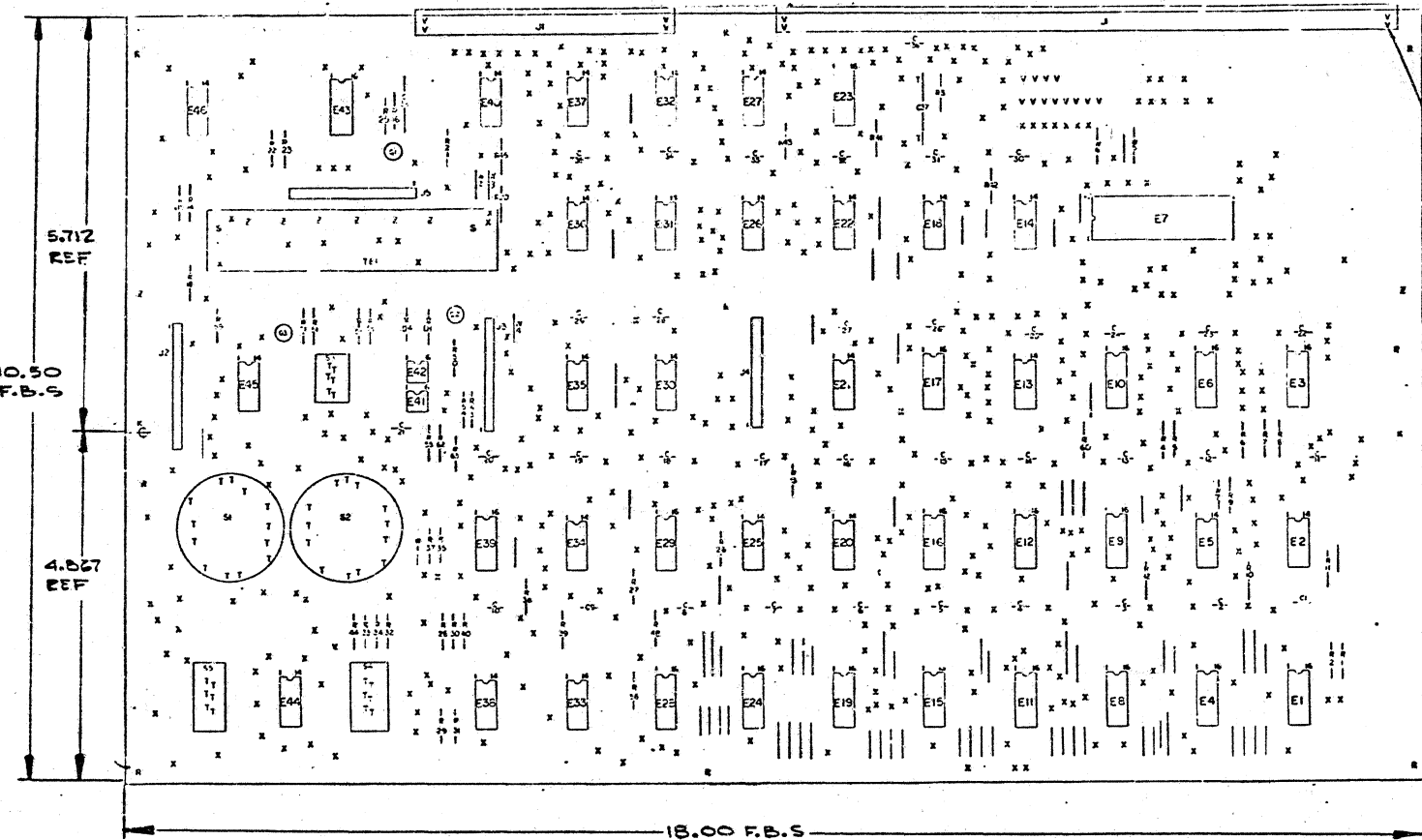
**NOTES:**

- JUMPER "W4" ADDED FOR 5410902-2 VARIATION (VT50H, VT50J)
- FOR 5410902-2 VARIATION (VT50H, VT50J) REMOVE W1, W2 AND INSERT W3.
- BOM'S FOR 5410902-0, 5410902-2, 5410902-4 MUST BE UPDATED SIMULTANEOUSLY
- REMOVE "W7" FOR 5410902-4 (VT50B)
- OPTIONAL JUMPERS FOR ODD PARITY, INSERT W6 AND TO CAUSE THE 7<sup>th</sup> DATA BIT TO BE TRANSMITTED AS A SPACE, INSERT JUMPER W5

VARIATION	COMMENTS
5410902-0	BASIC VT50
5410902-1	HEAT CYCLED SYSTEM TESTED 5410902-0
5410902-2	VT MODEL WITH DIRECT CURSOR CONTROL AND COPIER SUPPORT
5410902-3	HEAT CYCLED SYSTEM TESTED 5410902-2
5410902-4	BASIC VT50 WITH COPIER SUPPORT
5410902-5	HEAT CYCLED SYSTEM TESTED 5410902-4

QTY	VARIATION	ITEM #	LEGEND
		E1	E4 E5 E11 E15 E19 E24 E28
4	5410902-0	Z3082A2 Z3084A2	Z3083A2 Z3085A2
8	5410902-2	E20-2 E20-4	E20-6 E20-8 E20-3 E20-5 E20-7 E20-9
8	5410902-4	E20-2 E20-4	E20-6 E20-8 E20-3 E20-5 E20-7 E20-9



REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
		X-Y COORDINATE HOLE	13000004	1
		ASSY-DRILLING HOLE LAYOUT	D-AM-5410902-0-5	2
		MODULE ECO HISTORY	S-MH-5410902-0-6	3
		PCB-ED CIRCUIT BOARD	5410902-1	4
35	CI THRU C36, C41, C 12	CAP. 100P. 100V. 2207.	1001610-01	5
1	D37	CAP. 300P. 25V	1001736	6
1	C38	CAP. 300P. 10V. 1107.	1000076	7
1	D1	DIODE. MCL1301	1105210	8
2	D4, D5	DIODE. D572	1105275	9
21	R1-RE, R26-R34, R35 R44, R53, R54	RES 1K 1/4 W 5%/0	1300065	10
22	R9-R15, R18, R20, R25 R35, R37, R39-R43, R45 R48, R55, R59, R60, R61	RES 4.7K 1/4 W 5%/0	1300447	11
2	R21, R22	RES 2.2K 1/4 W 5%/0	1300417	12
1	R55	RES 120K 1/4 W 5%/0	1300539	13
1	R51	RES 150 1/4 W 5%/0	1300260	14
2	R16, R56	RES 39K 1/4 W 5%/0	1302514	15
1	R50	RES 220 1/4 W 5%/0	1300271	16
1	R22	RES 750 1/4 W 5%/0	1301401	17
1	R23	RES 7.5K 1/4 W 5%/0	1301422	18
2	E33, E38	I.C DEC 74197	1910035	19
3	E2, E25, E40	I.C DEC 7474	1905647	20
7	E5, E21, E27, E30, E32 E36, E43	I.C DEC 7400	1905676	21
6	E9, E12, E16, E23, E29, E39	I.C DEC 74161	1910650	22
1	E20	I.C DEC 7490	1909051	23
2	E13, E34	I.C DEC 7404	1909686	24
4	E26, E31, E37, E44	I.C DEC 7402	1904004	25
4	E3, E6, E10, E17	I.C DEC 74153	1909937	26
1	E35	I.C DEC 74110	1909057	27
1	E45	I.C DEC 7450	1905530	28
1	E7	I.C DEC 1402 UART ASYNCH	1910469	29
2	E14, E22	I.C DEC 7495	1909055	30
1	E18	I.C DEC 7430	1905578	31
1	E46	OSCILLATOR	1812131	32
1	SEE LEGEND	I.C DEC 5603A	230000A8	33
2	E41, E42	OPIO- ISOLATOR	1510727	34
3	Q1, Q2, Q3	TRANS 9431	1504335	35
3	S3, S4, S5	SWITCH, SLIDE	1210919	36
2	S1, S2	SWITCH, ROTARY	1270002	37
77	---	PINS 'P'	9009607	38
42	---	PINS STRAIGHT	9009606	39
1	TB	STEP, TERMINAL	211905	40
64	---	JUMPERS	910560-1	41
549	---	EYELETS	9000735	42
1	OREY	DRIFT-40 PIN	100441	43
19	---	JUMPER, INSULATED	9009155	44

IC TYPE	QTY	REF	LOC
74153	8	10	10
7490	2	5	5
74161	8	10	10
IC PIN LOCATIONS			
GND			+5V

FIRST USED ON OPTION MODEL  
**VT50**

ETCH BOARD REV. C

DATE: 12/11/75  
 CHECKED: [Signature]  
 ENG: [Signature]  
 PROJ. E.I.G.  
 PROD. [Signature]  
 NEXT HIGHER ASSY

DATE: 12/11/75  
 DATE: 12/11/75  
 DATE: 12/11/75  
 DATE: 12/11/75

SCALE: 1:1  
 SHEET 1 OF 5

SEMICONDUCTOR CONVERSION CHART

DEC NO. EIA NO. DEC NO. EIA NO.

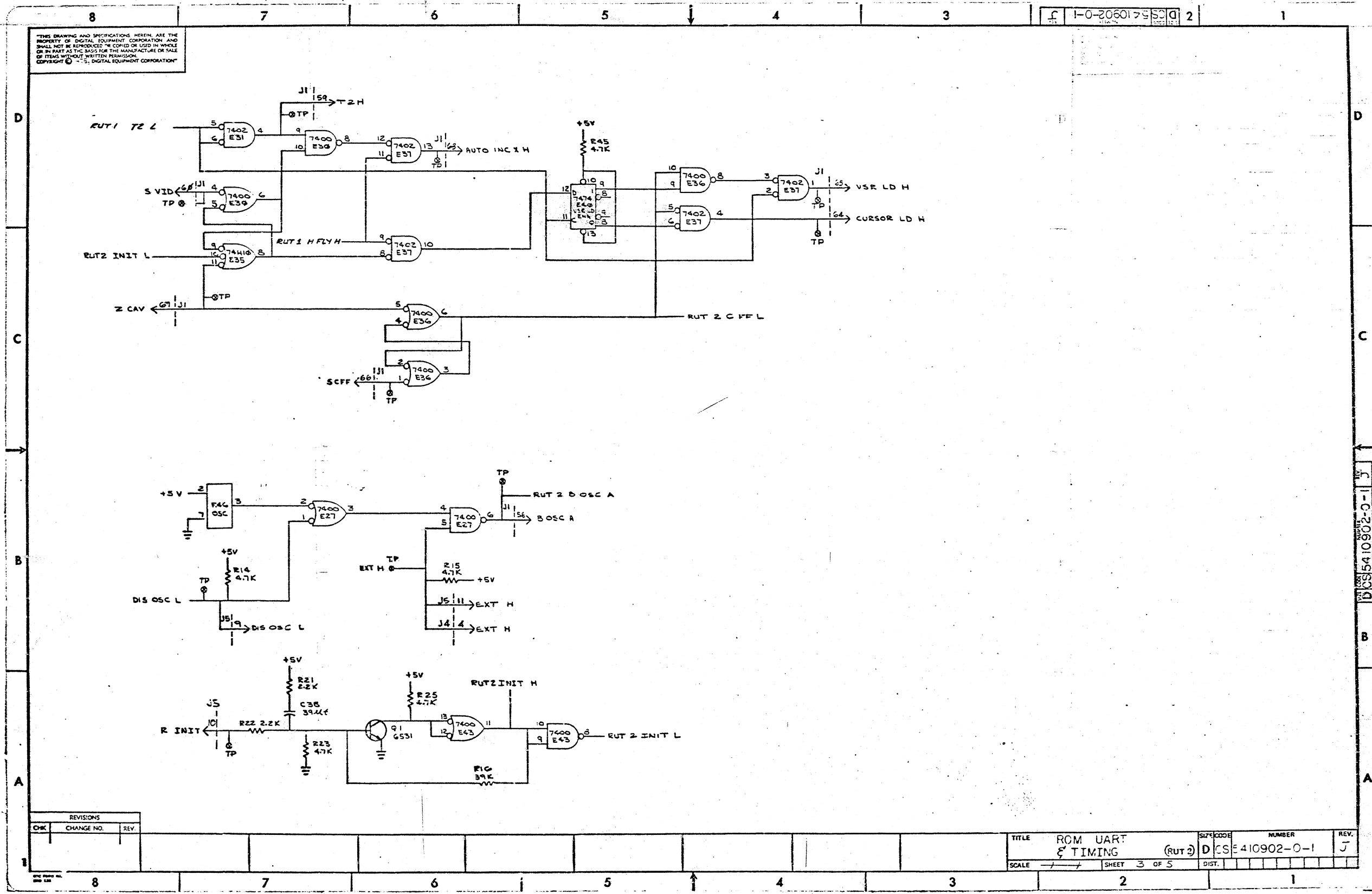
digital

TITLE: ROM UART AND TIMING

SIZE: CODE DICS 5410902-0-1  
 NUMBER: 5410902-0-1  
 REV. J

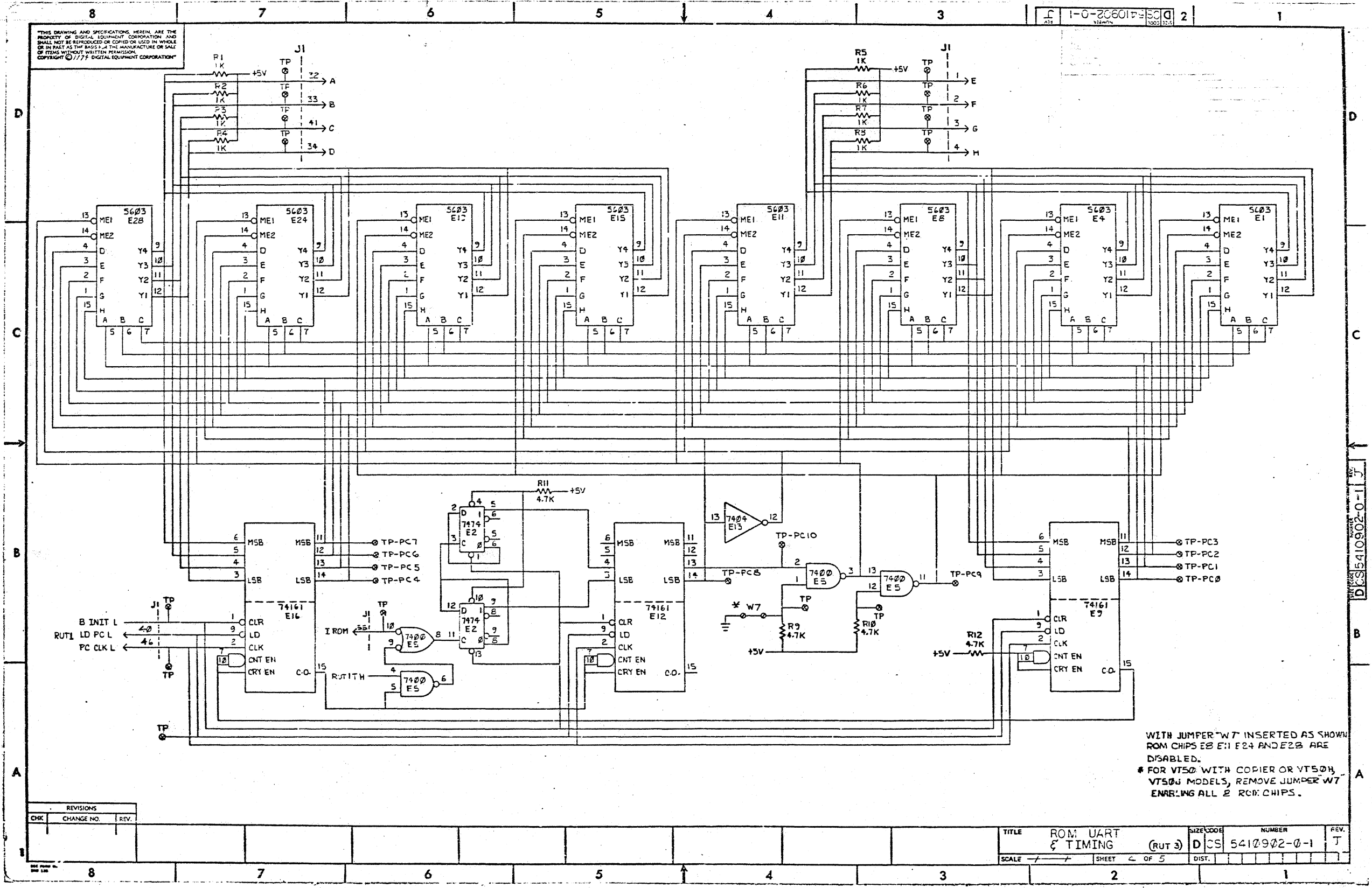


THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED, COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975, DIGITAL EQUIPMENT CORPORATION



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	ROM UART & TIMING (RUT 2)	SIZE CODE	D	NUMBER	410902-0-1	REV.	J
SCALE		SHEET	3	OF 5		DIST.	



THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1977 DIGITAL EQUIPMENT CORPORATION

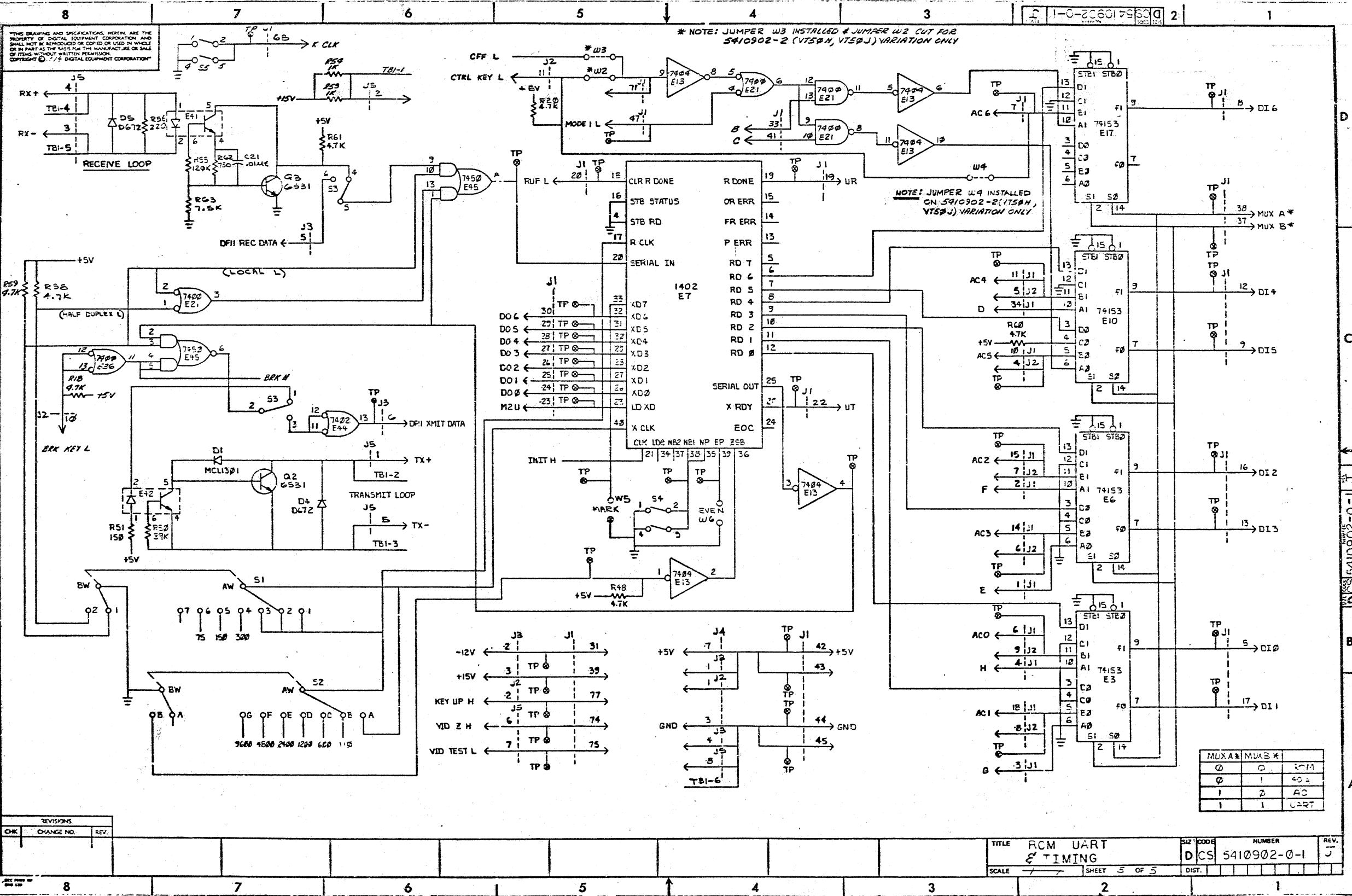
1-0-20601P SCD 2

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE ROM, UART & TIMING (RUT 3) SIZE/DOSE NUMBER REV. DCS 5410902-0-1 J

SCALE --- SHEET 4 OF 5 DIST.

DCS 5410902-0-1 J

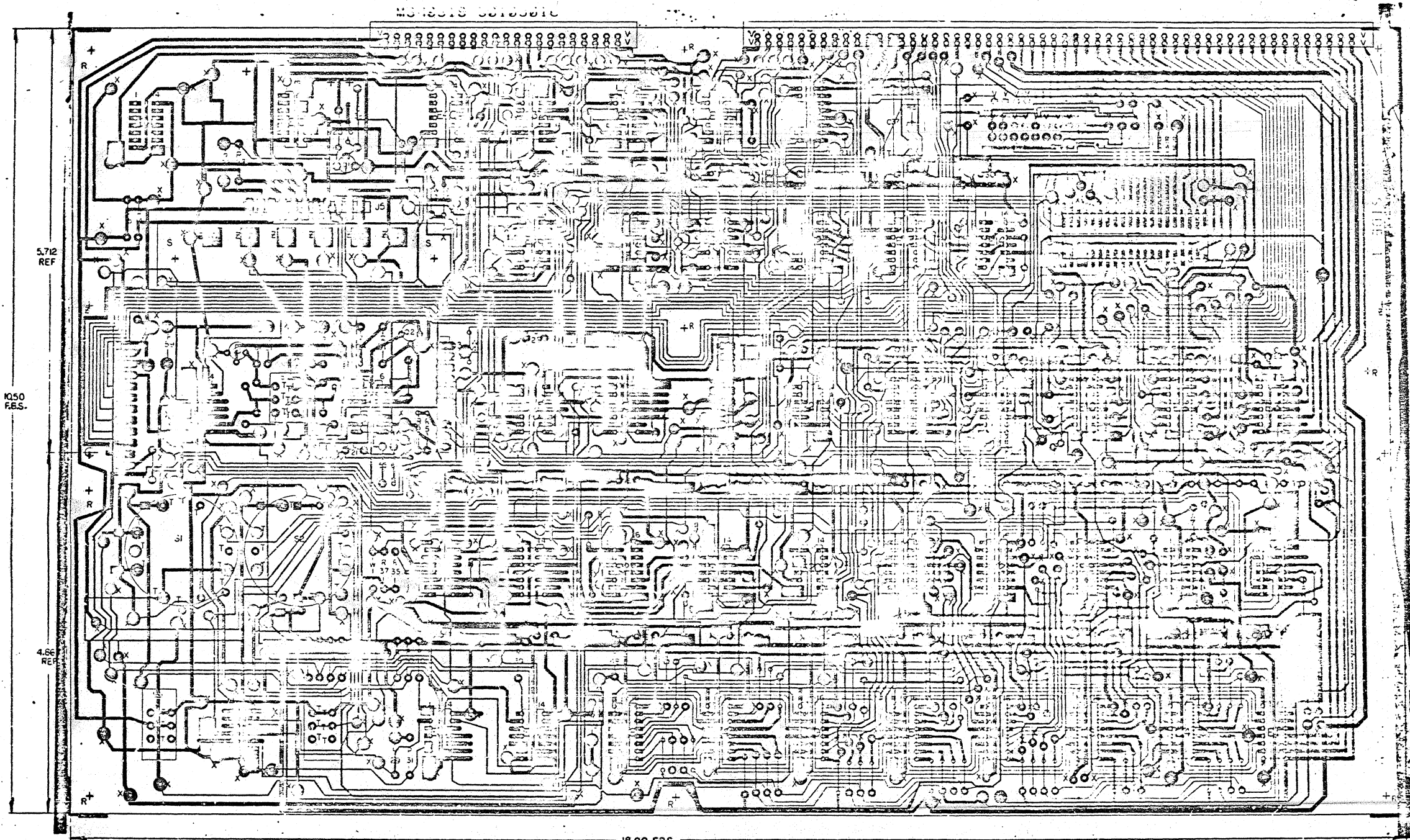


THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1977 DIGITAL EQUIPMENT CORPORATION

**REVISIONS**

CHK	CHANGE NO.	REV.





X HOLES TYP.  
154 PLACES

- NOTES:**
1. X HOLES ARE FOR EYELETS
  2. R HOLES ARE PUNCHED SLOTS

HOLE LETTER	DRILLING DATA		QTY OF HOLES
	FOR PTH BOARDS	FOR PTH-PTH PLATE	
X		Ø 0.042 DIA	
T		Ø 0.035 DIA	46
S		Ø 0.035 DIA	8
V		Ø 0.039 DIA	156

**BOARD FABRICATION INFORMATION**

- BOARD SIZE 10.5 X 18.0
- BOARD MATERIAL .062 THK  
1 OZ COPPER
- EYELET  PLATED THRU
- 2 SIDED  MULTI-LAYER
- NOTCH BEFORE GOLD PLATING
- NOTCH AFTER GOLD PLATING

APPROVED	DATE	DESIGNED BY	DATE	REVISION	DATE
EQUIPMENT CORPORATION			TITLE		
			ROM UART & TIMING		
PROJECT NO.	5410902	REVISION	NUMBER	REV	
SCALE	2:1	E	5410902-0-5	J	
DESIGNED BY	C	MS 40318			

PRODUCT LINE 98  
 DATE RELEASED 1-10-75  
 RELEASED BY M. MORGANSTERN

MODULE ECO HISTORY  
 PAGE 1 OF 1

RELEASED CS REV A  
 RELEASED ETCH BD REV B

ECO. NO.	ORIGINATOR	DATE WRITTEN	NEW CS REV.	NEW ETCH BOARD REV.	IS IT MANDATORY TO REWORK ALL EARLIER VERSIONS (NOW AVAILABLE OR RETURNED FOR REPAIR) TO THIS REVISION LEVEL?			ARE ALL REVISIONS OF THIS MODULE COMPLETELY COMPATIBLE NOW (CAN BE MIXED INDISCRIMINATELY)?			SIMPLIFIED CHANGE DESCRIPTION	NO. PARTS ADDED	NO. PARTS DELETED
					YES	NO	CONDITIONAL (EXPLAIN)	YES	NO	CONDITIONAL (EXPLAIN)			
00001	MORGANSTERN	1-27-75	B	B							1. CAPS ADDED TO 74123 R55 INCREASED TO 39K 2. 2. DOCUMENT CHANGES REQUIRED TO PRODUCE 5410902-1 THRU 5410902-3	1. 2 2. 8	1. NONE 2. 4
00002	MISITANO	2-4-75	C	B		✓		✓			CHANGE R50 TO 39K 2.	0	0
00003	BUZYNSKI	2-27-75	D	B		✓		✓	2 AND 3 NOT COMPATIBLE		1. DOCUMENT CHANGE REQUIRED TO PRODUCE 5410902-2 2. CHANGE ROM DESIGNATIONS FOR 5410902-4	0	0
00004	DICKENSON	3-4-75	E	B		✓		✓			DOCUMENTATION CORRECTION	0	0
00005	BUZYNSKI	4-29-75	F	B		✓	5410902-2 VARIATIONS ONLY (VT50 H)	✓	ALL-2 AND -3 VARIATIONS ARE COMPATIBLE		JUMPER WIRES FOR +5, GND ADDED TO -2 VARIATION (VT50 H, VT50 J)	1	—
00006	DICKENSON	4-14-75	H	C		✓		✓			NEW ETCH REV C INITIALIZE CIRCUIT CHANGE TO ELIMINATE E43-74/2.3	4	9
00007	NEUMANN	4-30-75	J			✓		✓			1. DELETE UART SOCKET 2 CORRECT E7 ON CS SHEET 1 OF 4	0	1
00008	PUCCI	27-OCT-75	K			X		X			DOCUMENTATION CORRECTIONS	0	0

REV. NO.	CHG. NO.	REV.
00001	A	
00002	B	
00003	C	
00004	D	
00005	E	
00006	F	
00007	H	
00008	J	

DRN.	DATE
CHK'D	DATE
ENG.	DATE
PROD.	DATE

**EQUIPMENT CORPORATION**  
 MAYNARD, MASSACHUSETTS

TITLE: **MODULE ECO HISTORY**

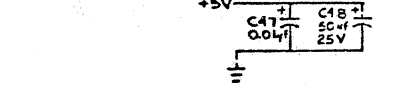
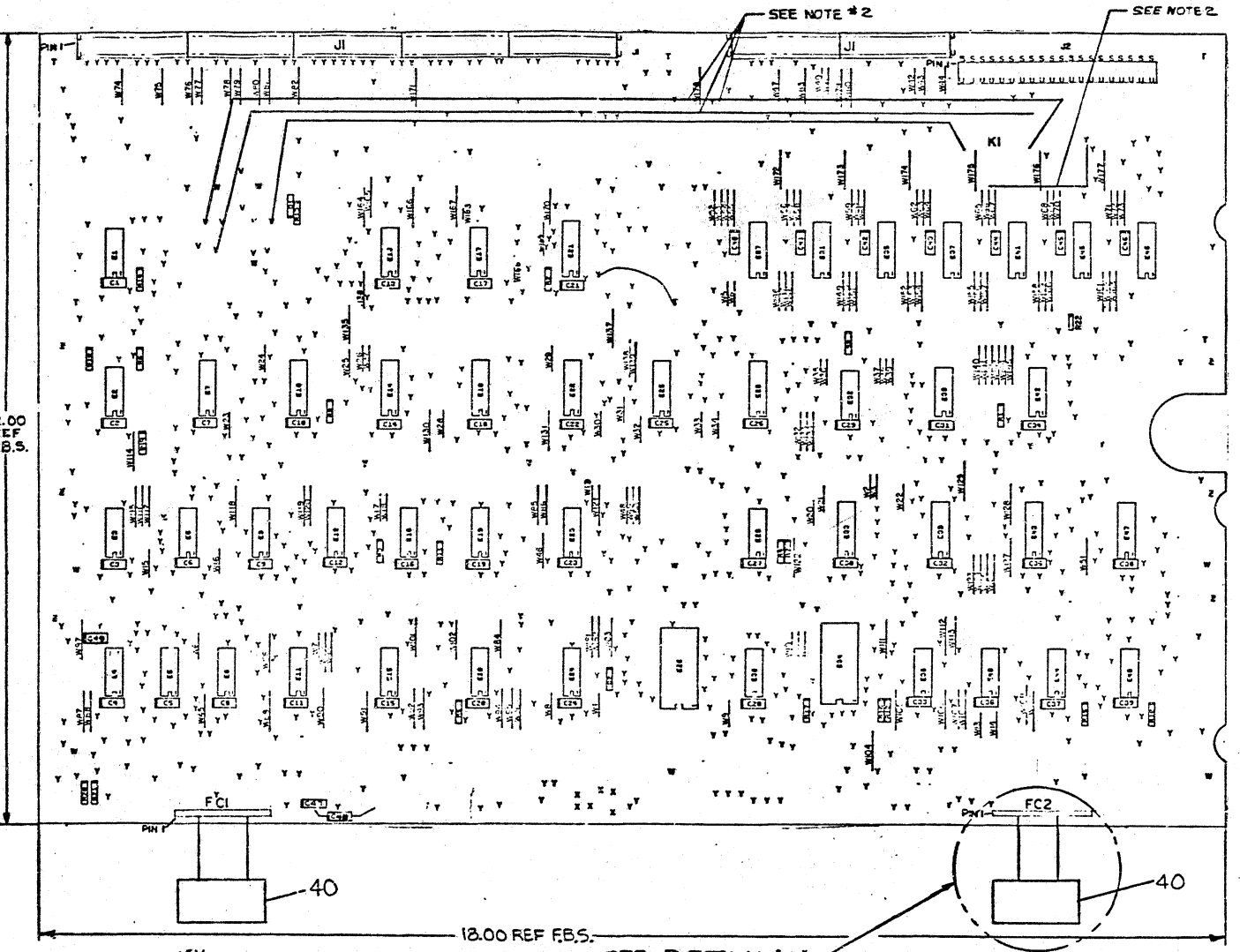
SIZE: B CODE: LH NUMBER: 5410902-0-6 REV. J



8 7 6 5 4 3 2 1

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. DIGITAL EQUIPMENT CORPORATION © 1974

**NOTES:**  
 1. 5410906-1 IS THE HEAT AND SYSTEM TESTED 5410906-0.  
 2. WIRES ADDED FOR RELOCATION OF K1 (ITEM #9) SEE AHDWS FOR REWORK DETAILS.



SEE DETAIL A  
 SHT # 6 OF 6

IC 74150	12	24
IC 7475	8	14
IC 2102	9	10
IC 2513	12	24
IC TYPE	GND	+5V

GND AND 5V ARE USUALLY PIN 5 AND 16 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE.  
 IC PIN LOCATIONS

CHK	CHANGE NO.	REVISION
		CONSTRAINED
		A

FIRST USED ON OPTION MODEL  
**VT50**

REF	X-Y COORDINATE HOLE LOCATION	K-CO-5410906-4	1
REF	ASSY DRILLING HOLE LAYOUT	E-AH-5410906-5	2
REF	WOUNDLE ECO HISTORY	B-MP-7410906-6	3
1	ETCHED CIRCUIT BOARD	5010905	4
1	C48	CAPACITOR 500UF 25V	5
47	C1 THRU C47	CAPACITOR 0.01 DISC	6
2	D1, D2	DIODE	7
1	S1	SLIDE SWITCH	8
1	K1	RELAY PHILLIPS 12V DC 19A111 AE	9
7	J1	11 PIN SIDE ENTRY AMP CONNECTOR	10
2	J2	10 PIN BOTTOM ENTRY AMP CONNECTOR	11
2	R13	RESISTOR 100 OHM 1/4W 5%	12
2	R3, R4, R7, R10, 4, 5, 2, 22	RESISTOR 1K 1/4W 5%	13
2	R5, R6, R8, R9, R11, R12, R15, R17, R18, 2	RESISTOR 4.7K 1/4W 5%	14
1	R21	RESISTOR 470 1/4W 5%	15
1	R20	RESISTOR 47 1/4W 5%	16
5	E15, E20, E32, E38, E42	IC DEC 7495	17
8	E5, E8, E9, E19, E40, E44	IC DEC 7400	18
2	E17, E24	IC DEC 74H50	19
1	E21	IC DEC 74157	20
5	E14, E18, E22, E25, E28	IC DEC 74193	21
2	E7, E10	IC DEC 7495	22
2	E23, E29	IC DEC 9242	23
2	E2, E16	IC DEC 7474	24
3	E11, E12, E36	IC DEC 74H10	25
3	E3, E6, E30	IC DEC 7404	26
1	E1	IC DEC 7408	27
1	E34	IC DEC 74150	28
3	E33, E37, E47	IC DEC 7442	29
1	E43	IC DEC 74155	30
2	E13, E48	IC DEC 74H11	31
1	E4	IC DEC 7402	32
7	E27, E31, E35, E37, E41, 245, E46	IC DEC 2102-1 1024 X 1 RAM	33
1	E26	IC DEC 2513 24 PIN CHAR GEN	34
745	EYFLET	9007831	35
180	JUMPERS	507560-01	36
1	24 PIN IC SOCKET	1210643	37
A/R	WIRE 30 AWG. INSULATED	9105740	38
10	JUMPERS INS	9009165	39
2	CABLE ASSY.	920750-24-00	40
1	TERMINAL	9007930	41
A/R	WIRE 18 AWG. INSULATED	9105730-55	42
1	C49	CAP 82PF 100V 5%	43

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

**digital**

TITLE DATA PATHS MEMORY AND DECODER

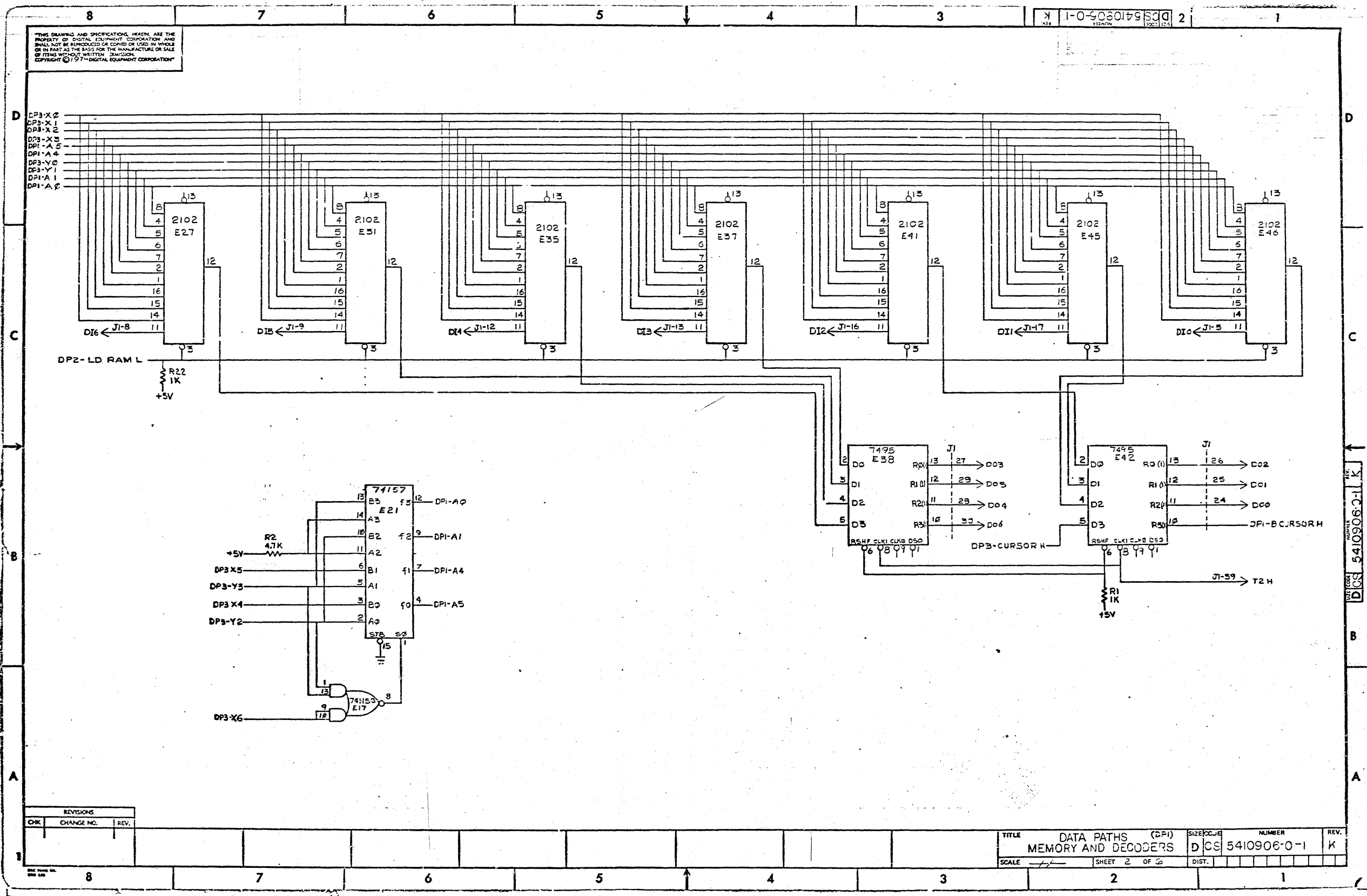
SIZE CODE NUMBER REL.  
 DCS 5410906-0-1 K

SCALE SHEET 1 OF 5

SEMICONDUCTOR CONVERSION CHART

8 7 6 5 4 3 2 1

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1977 DIGITAL EQUIPMENT CORPORATION.



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	DATA PATHS (DPI) MEMORY AND DECODERS	SIZE	OCJJB	NUMBER	D CS 5410906-0-1	REV.	K
SCALE		SHEET	2	OF	2	DIST.	

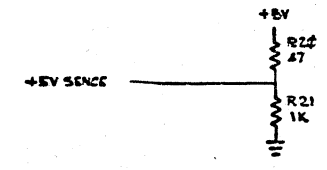
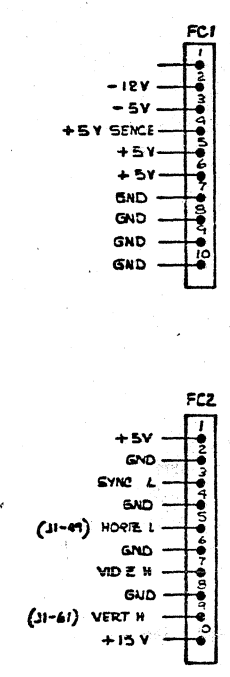
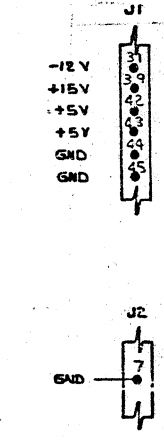
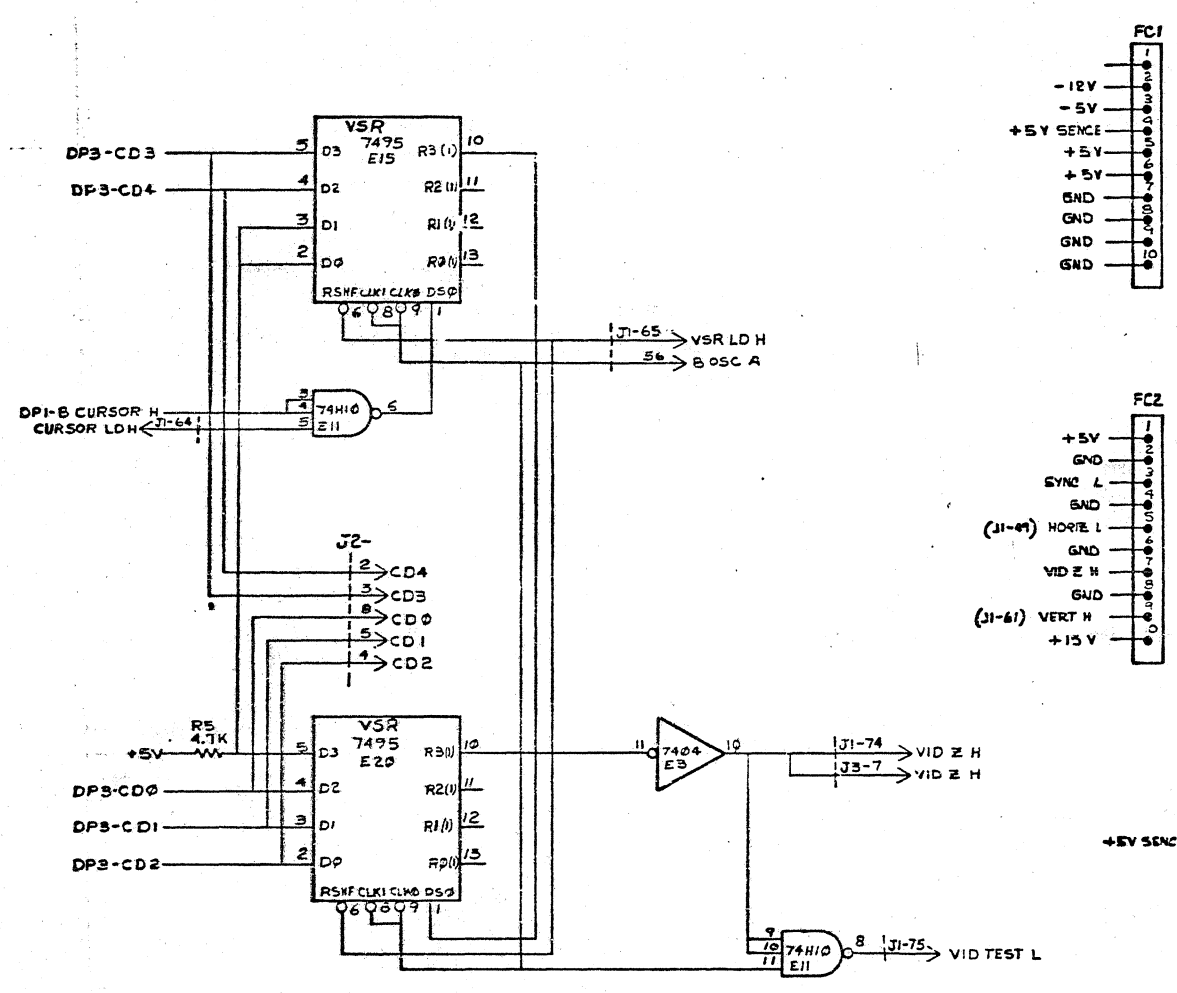
D CS 5410906-0-1 K





THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974 DIGITAL EQUIPMENT CORPORATION

D  
C  
B  
A

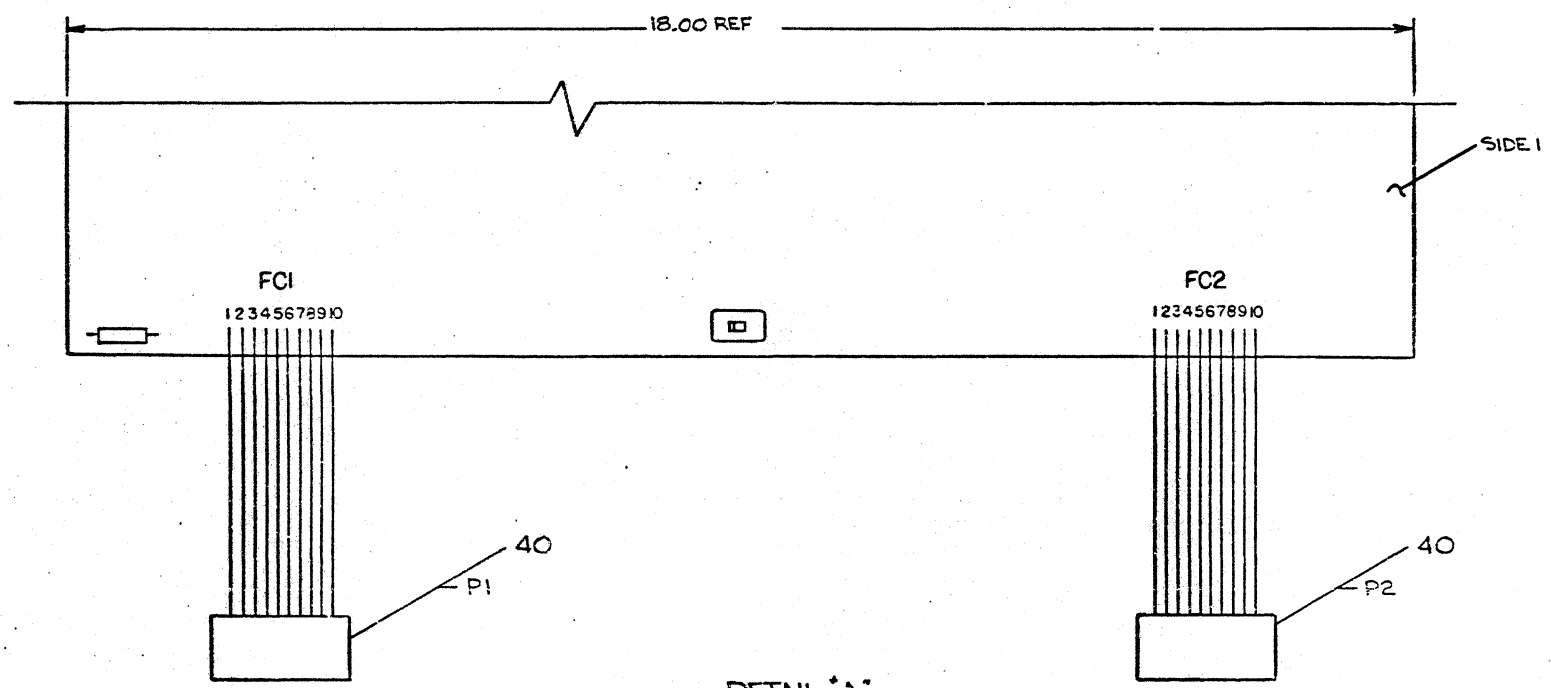


REVISIONS		
CHK	CHANGE NO.	REV.

D  
C  
B  
A

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975, DIGITAL EQUIPMENT CORPORATION.

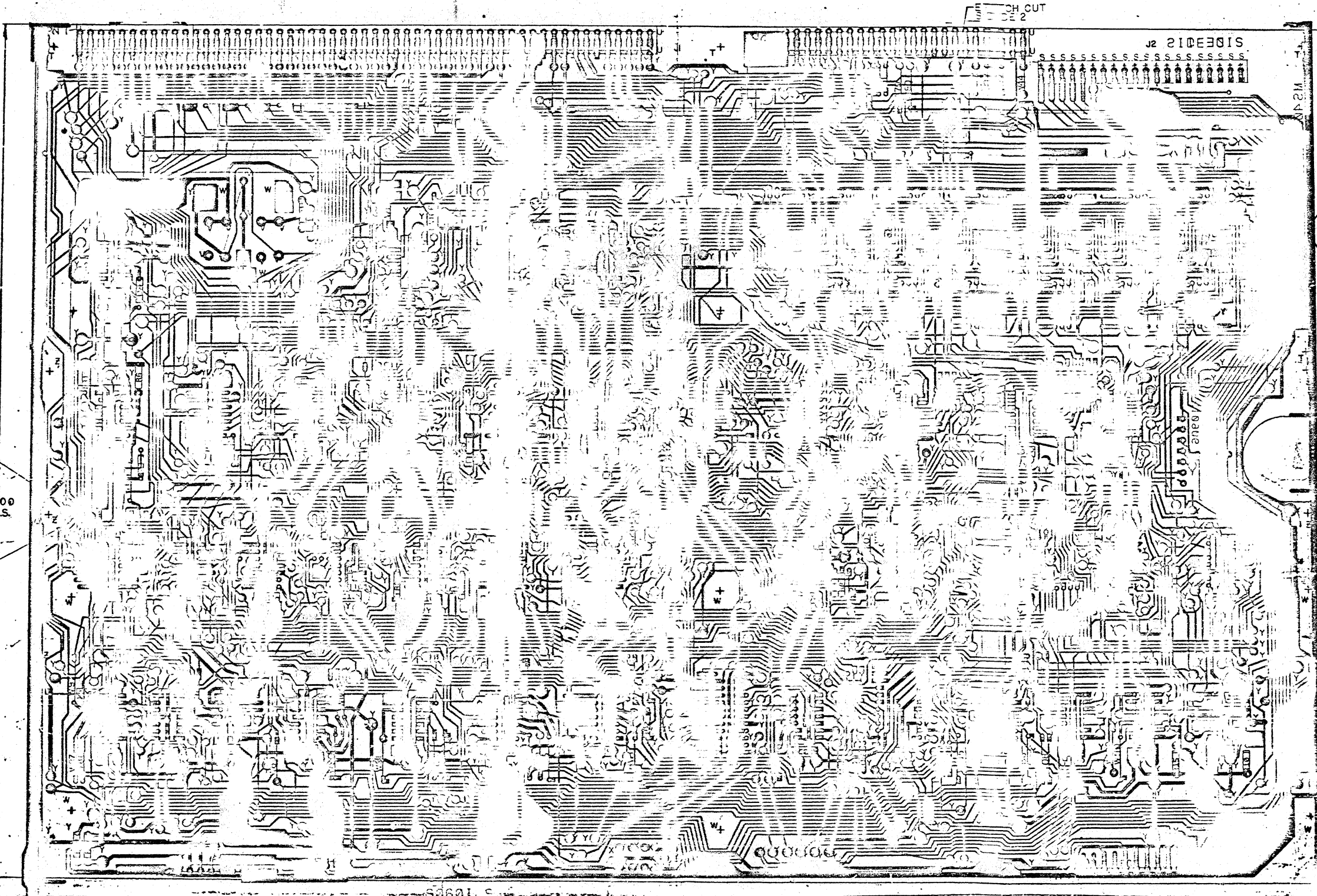
WIRE TABLE				
ITEM NO	AWG	COLOR	FROM CONNECTION	TO CONNECTION
40	22	BLK		FC1-1
		BRN		2
		RED		3
		OPN		4
		VEL		5
		GRN		6
		BLU		7
		VIC		8
		GRY		9
40		WHT		FC1-10
40		BLK		FC2-1
		BRN		2
		RED		3
		CRN		4
		VEL		5
		GRN		6
		BLU		7
		VIC		8
		GRY		9
40	22	WHT		FC2-10



DETAIL 'A'  
SCALE: NONE

REVISIONS		
CHK	CHANGE NO	REV





ADD WIRE

12.000 F.B.S.

ETCH CUT SIDE I

59601

15.000



W 9-0-541076 HW B  
 NUMBER 541076-0-6  
 SIZE CODE B

PRODUCT LINE VT50  
 DATE RELEASED 1-10-75  
 RELEASED BY M. MORGANSTERN

MODULE ECO HISTORY  
 PAGE 1 OF 1

RELEASED CS REV. A  
 RELEASED ETCH BD REV. B

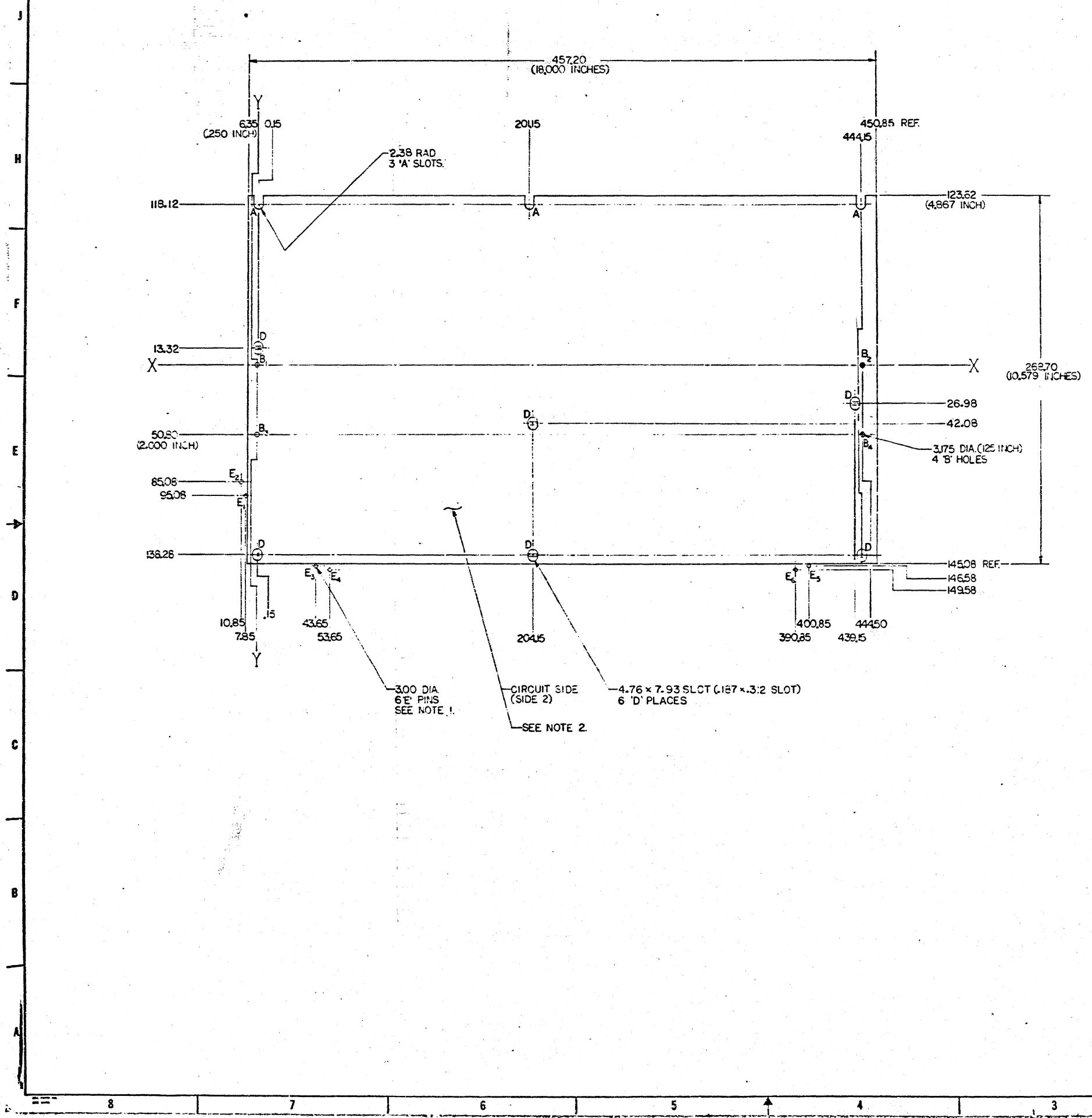
ECO. NO.	ORIGINATOR	DATE WRITTEN	NEW CS REV.	NEW ETCH BOARD REV.	IS IT MANDATORY TO REWORK ALL EARLIER VERSIONS (NOW AVAILABLE OR RETURNED FOR REPAIR) TO THIS REVISION LEVEL?			ARE ALL REVISIONS OF THIS MODULE COMPLETELY COMPATIBLE NOW (CAN BE MIXED INDISCRIMINATELY)?			SIMPLIFIED CHANGE DESCRIPTION	NO. PARTS ADDED	NO. PARTS DELETED
					YES	NO	CONDITIONAL (EXPLAIN)	YES	NO	CONDITIONAL (EXPLAIN)			
00001	MORGANSTERN	JAN. 27, 75	B	B		X		X			1. CH-POINT CHANGED 50 KEY CLICK RELAY STIP. ACROSS IF CON- TACT'S FAIL. 2. DOCUMENT CHANGES REQUIRED TO PRODUCE 541076-1 THRU 541076-3 VARIATIONS.	NONE	1
00002	MISITANO	JAN. 24, 75	C	B				X			MOVE KEYCLICK RELAY TO OPPOSITE SIDE OF BOARD	NONE	NONE
00003	BUZYNSKI	2-26-75	C	B		X		X			DELETE VARIATIONS 5410906-2 5410906-3	NONE	NONE
00004	DICKENSON	3-5-75	D			X		X			DOCUMENT CHANGES	0	0
00005	WHITTLESEY	4-25-75	E			X		X			ADD GND JUMPER	1	0
00005A	WHITTLESEY	5-8-75				X		X			CHG WIRE SIZE FROM #22 TO #18 GREEN	0	0
00006	NEUMANN	4-30-75	H	B		X		X			1. DELETE PIN 2, 24 PIN SOCKETS. 2. CORRECT CS SHEET 1 OF 5	0	2
00007	DICKENSON	3-25-75	J	C		X		X			NEW ETCH REV C. RESISTORS ADDED TO INCREASE +5V AND NOISE IMMUNITY	4	NONE
00008	WHITTLESEY	8-7-75	K			X		X			ADD CAP C48	1	0
0008A	WHITTLESEY	2-SEPT-75	L			X		X			CHG VALUE OF C49 TO 22 PF	1	1
00009	PUCCI	27-OCT-75	M			X		X			DOCUMENTATION CORRECTION	0	0

REVISIONS	CHK'D	DATE	TITLE
00001	M. Morganstern	1-10-75	MODULE ECO HISTORY
00002			
00003			
00004			
00005			
00005A			
00006			
00007			
00008			
0008A			
00009			

ORIGINATOR: M. Morganstern DATE: 1-10-75  
 CHECKED: M. Morganstern DATE: 1-10-75  
 PROD. DATE: 1-10-75  
 EQUIPMENT CORPORATION  
 MAYNARD, MASSACHUSETTS  
 SIZE CODE NUMBER REV  
 B MH 541076-0-6 M



THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF OTHER PRODUCTS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1970 DIGITAL EQUIPMENT CORPORATION.



- NOTES:
- TOOL TO BE DESIGNED WITH ALL PINS E<sub>1</sub> THRU E<sub>6</sub> INSTALLED.
  - PINS E<sub>1</sub>, E<sub>2</sub>, E<sub>3</sub> TO BE SPRING LOADED RETRACTABLE.
  - E<sub>2</sub>, E<sub>4</sub> & E<sub>6</sub> PINS USED WHEN SHEARING EDGES AND MUST BE FIXED PINS.
  - CIRCUIT SIDE IS COPPER CLAD SIDE (ETCH SIDE) OF BOARD. PUNCHING OF HOLES WILL BE FROM THIS SIDE TOWARD OPPOSITE SIDE.
  - PUT 3.175 (125) DIA HOLES IN TOP AND BOTTOM PLATES. DO NOT INSTALL PUNCHES IN B<sub>1</sub> & B<sub>2</sub> DATUM HOLES.

METRIC DIMENSIONS

REV.	CHANGE NO.	DESCRIPTION	DATE	BY	QTY.	DESCRIPTION	PART NO.	ITEM NO.
		FIRST USED ON OPTION MODEL						
		V T 51						
		DIMENSIONAL TOLERANCE	DATE					
		DRAWN	DATE					
		CHECKED	DATE					
		UNLESS OTHERWISE SPECIFIED						
		MILLIMETERS						
		INCHES						
		ANGLES						
		TYPED ANGLE						
		PRODUCTION						
		MATERIAL						
		FINISH						
		SCALE						
		SHEET						
		OF						
		DIST						
		1						

NO 960331-0-0

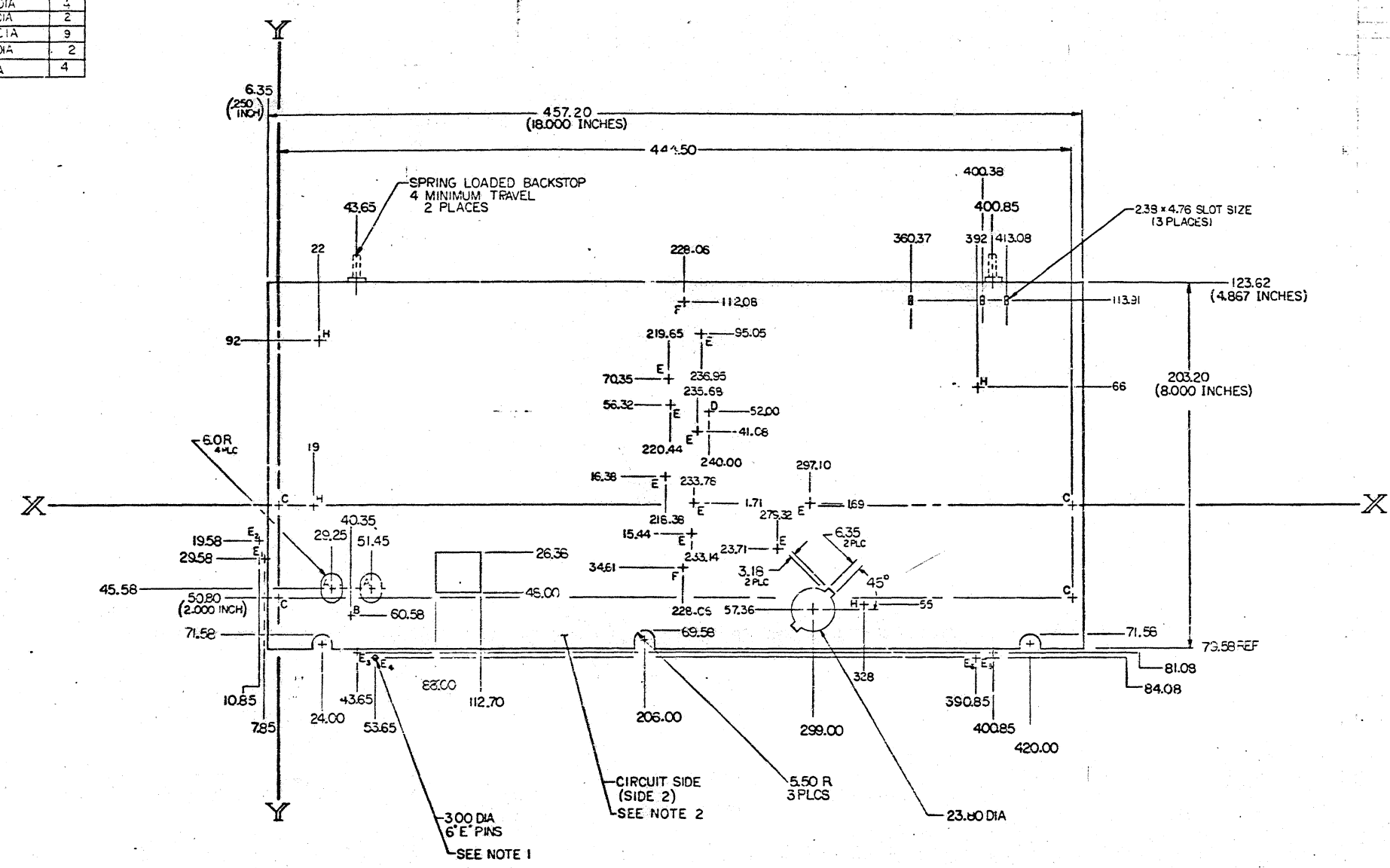
digital  
PERIPHERY DIE FRONT PROCESSOR

SIZE CODE NUMBER  
EWD 960331-0-0 REV.

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE IN WHOLE OR IN PART OF ANY PRODUCT WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974 DIGITAL EQUIPMENT CORPORATION

HOLE LEGEND		
HOLE	SIZE	QTY
A	12 X 1/8 SLOT	2
B	12 DIA	1
C	3.175 DIA	3
D	4.8 DIA	2
E	8.00 DIA	9
F	3.26 DIA	2
H	4.0 DIA	4

NOTES:  
 1A TOOL TO BE DESIGNED WITH ALL PINS E1 THRU E6 INSTALLED.  
 1B PINS E1, E3, AND E5 TO BE SPRING LOADED RETRACTABLE, USED WHEN NOT SHEARING EDGES.  
 1C E2, E4, E6 PINS USED WHEN SHEARING EDGES, TO BE FIXED DOWEL PINS.  
 2 CIRCUIT SIDE IS COPPER CLAD SIDE (ETCH SIDE) OF BOARD. PUNCHING OF HOLES WILL BE FROM THIS SIDE TOWARD OPPOSITE SIDE.  
 3 FOR REV D - PC BOARD.



METRIC DIMENSIONS

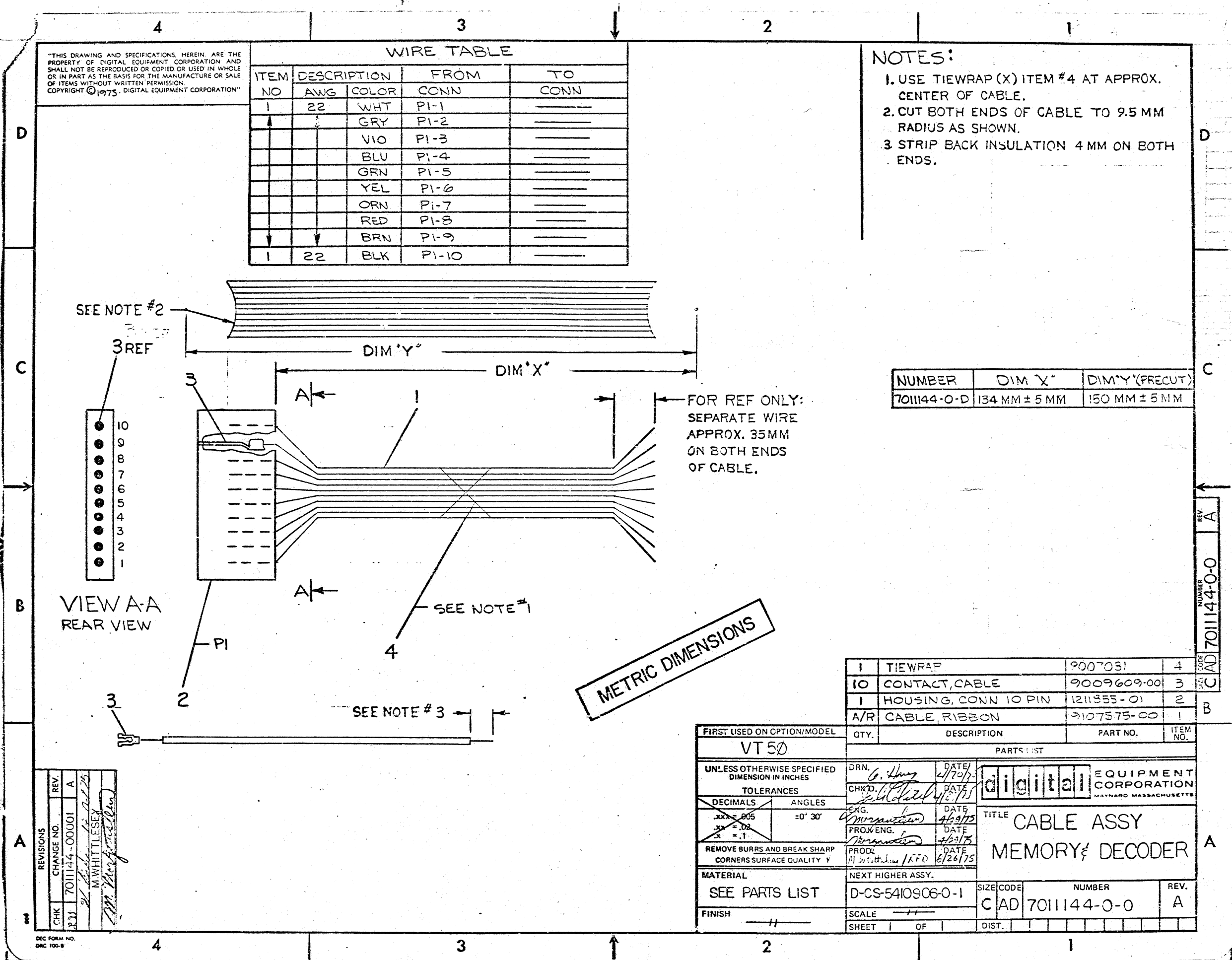
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
VT50				
DIMENSIONAL TOLERANCE		PARTS LIST		
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED		CHK'D.	DATE	digital
		ENG.	DATE	
MILLIMETERS	INCHES	ANGLES		TITLE
±.01	±.0004	±.01		PERIPHERY DIE, PWR SUP/MONITOR
±.02	±.0008	±.02		
±.05	±.0020	±.05		
±.10	±.0050	±.10		
±.15	±.0075	±.15		
±.20	±.0100	±.20		
±.25	±.0125	±.25		
±.30	±.0150	±.30		
±.35	±.0175	±.35		
±.40	±.0200	±.40		
±.45	±.0225	±.45		
±.50	±.0250	±.50		
±.55	±.0275	±.55		
±.60	±.0300	±.60		
±.65	±.0325	±.65		
±.70	±.0350	±.70		
±.75	±.0375	±.75		
±.80	±.0400	±.80		
±.85	±.0425	±.85		
±.90	±.0450	±.90		
±.95	±.0475	±.95		
±.100	±.0500	±.100		
±.105	±.0525	±.105		
±.110	±.0550	±.110		
±.115	±.0575	±.115		
±.120	±.0600	±.120		
±.125	±.0625	±.125		
±.130	±.0650	±.130		
±.135	±.0675	±.135		
±.140	±.0700	±.140		
±.145	±.0725	±.145		
±.150	±.0750	±.150		
±.155	±.0775	±.155		
±.160	±.0800	±.160		
±.165	±.0825	±.165		
±.170	±.0850	±.170		
±.175	±.0875	±.175		
±.180	±.0900	±.180		
±.185	±.0925	±.185		
±.190	±.0950	±.190		
±.195	±.0975	±.195		
±.200	±.1000	±.200		
±.205	±.1025	±.205		
±.210	±.1050	±.210		
±.215	±.1075	±.215		
±.220	±.1100	±.220		
±.225	±.1125	±.225		
±.230	±.1150	±.230		
±.235	±.1175	±.235		
±.240	±.1200	±.240		
±.245	±.1225	±.245		
±.250	±.1250	±.250		
±.255	±.1275	±.255		
±.260	±.1300	±.260		
±.265	±.1325	±.265		
±.270	±.1350	±.270		
±.275	±.1375	±.275		
±.280	±.1400	±.280		
±.285	±.1425	±.285		
±.290	±.1450	±.290		
±.295	±.1475	±.295		
±.300	±.1500	±.300		
±.305	±.1525	±.305		
±.310	±.1550	±.310		
±.315	±.1575	±.315		
±.320	±.1600	±.320		
±.325	±.1625	±.325		
±.330	±.1650	±.330		
±.335	±.1675	±.335		
±.340	±.1700	±.340		
±.345	±.1725	±.345		
±.350	±.1750	±.350		
±.355	±.1775	±.355		
±.360	±.1800	±.360		
±.365	±.1825	±.365		
±.370	±.1850	±.370		
±.375	±.1875	±.375		
±.380	±.1900	±.380		
±.385	±.1925	±.385		
±.390	±.1950	±.390		
±.395	±.1975	±.395		
±.400	±.2000	±.400		
±.405	±.2025	±.405		
±.410	±.2050	±.410		
±.415	±.2075	±.415		
±.420	±.2100	±.420		
±.425	±.2125	±.425		
±.430	±.2150	±.430		
±.435	±.2175	±.435		
±.440	±.2200	±.440		
±.445	±.2225	±.445		
±.450	±.2250	±.450		
±.455	±.2275	±.455		
±.460	±.2300	±.460		
±.465	±.2325	±.465		
±.470	±.2350	±.470		
±.475	±.2375	±.475		
±.480	±.2400	±.480		
±.485	±.2425	±.485		
±.490	±.2450	±.490		
±.495	±.2475	±.495		
±.500	±.2500	±.500		
±.505	±.2525	±.505		
±.510	±.2550	±.510		
±.515	±.2575	±.515		
±.520	±.2600	±.520		
±.525	±.2625	±.525		
±.530	±.2650	±.530		
±.535	±.2675	±.535		
±.540	±.2700	±.540		
±.545	±.2725	±.545		
±.550	±.2750	±.550		
±.555	±.2775	±.555		
±.560	±.2800	±.560		
±.565	±.2825	±.565		
±.570	±.2850	±.570		
±.575	±.2875	±.575		
±.580	±.2900	±.580		
±.585	±.2925	±.585		
±.590	±.2950	±.590		
±.595	±.2975	±.595		
±.600	±.3000	±.600		
±.605	±.3025	±.605		
±.610	±.3050	±.610		
±.615	±.3075	±.615		
±.620	±.3100	±.620		
±.625	±.3125	±.625		
±.630	±.3150	±.630		
±.635	±.3175	±.635		
±.640	±.3200	±.640		
±.645	±.3225	±.645		
±.650	±.3250	±.650		
±.655	±.3275	±.655		
±.660	±.3300	±.660		
±.665	±.3325	±.665		
±.670	±.3350	±.670		
±.675	±.3375	±.675		
±.680	±.3400	±.680		
±.685	±.3425	±.685		
±.690	±.3450	±.690		
±.695	±.3475	±.695		
±.700	±.3500	±.700		
±.705	±.3525	±.705		
±.710	±.3550	±.710		
±.715	±.3575	±.715		
±.720	±.3600	±.720		
±.725	±.3625	±.725		
±.730	±.3650	±.730		
±.735	±.3675	±.735		
±.740	±.3700	±.740		
±.745	±.3725	±.745		
±.750	±.3750	±.750		
±.755	±.3775	±.755		
±.760	±.3800	±.760		
±.765	±.3825	±.765		
±.770	±.3850	±.770		
±.775	±.3875	±.775		
±.780	±.3900	±.780		
±.785	±.3925	±.785		
±.790	±.3950	±.790		
±.795	±.3975	±.795		
±.800	±.4000	±.800		
±.805	±.4025	±.805		
±.810	±.4050	±.810		
±.815	±.4075	±.815		
±.820	±.4100	±.820		
±.825	±.4125	±.825		
±.830	±.4150	±.830		
±.835	±.4175	±.835		
±.840	±.4200	±.840		
±.845	±.4225	±.845		
±.850	±.4250	±.850		
±.855	±.4275	±.855		
±.860	±.4300	±.860		
±.865	±.4325	±.865		
±.870	±.4350	±.870		
±.875	±.4375	±.875		
±.880	±.4400	±.880		
±.885	±.4425	±.885		
±.890	±.4450	±.890		
±.895	±.4475	±.895		
±.900	±.4500	±.900		
±.905	±.4525	±.905		
±.910	±.4550	±.910		
±.915	±.4575	±.915		
±.920	±.4600	±.920		
±.925	±.4625	±.925		
±.930	±.4650	±.930		
±.935	±.4675	±.935		
±.940	±.4700	±.940		
±.945	±.4725	±.945		
±.950	±.4750	±.950		
±.955	±.4775	±.955		
±.960	±.4800	±.960		
±.965	±.4825	±.965		
±.970	±.4850	±.970		
±.975	±.4875	±.975		
±.980	±.4900	±.980		
±.985	±.4925	±.985		
±.990	±.4950	±.990		
±.995	±.4975	±.995		
±.1000	±.5000	±.1000		

MT 9606362-0-0

"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975, DIGITAL EQUIPMENT CORPORATION"

ITEM NO	DESCRIPTION	FROM	TO
1	22	WHT	PI-1
		GRY	PI-2
		VIO	PI-3
		BLU	PI-4
		GRN	PI-5
		YEL	PI-6
		ORN	PI-7
		RED	PI-8
		BRN	PI-9
1	22	BLK	PI-10

- NOTES:
- USE TIEWRAP (X) ITEM #4 AT APPROX. CENTER OF CABLE.
  - CUT BOTH ENDS OF CABLE TO 9.5 MM RADIUS AS SHOWN.
  - STRIP BACK INSULATION 4 MM ON BOTH ENDS.



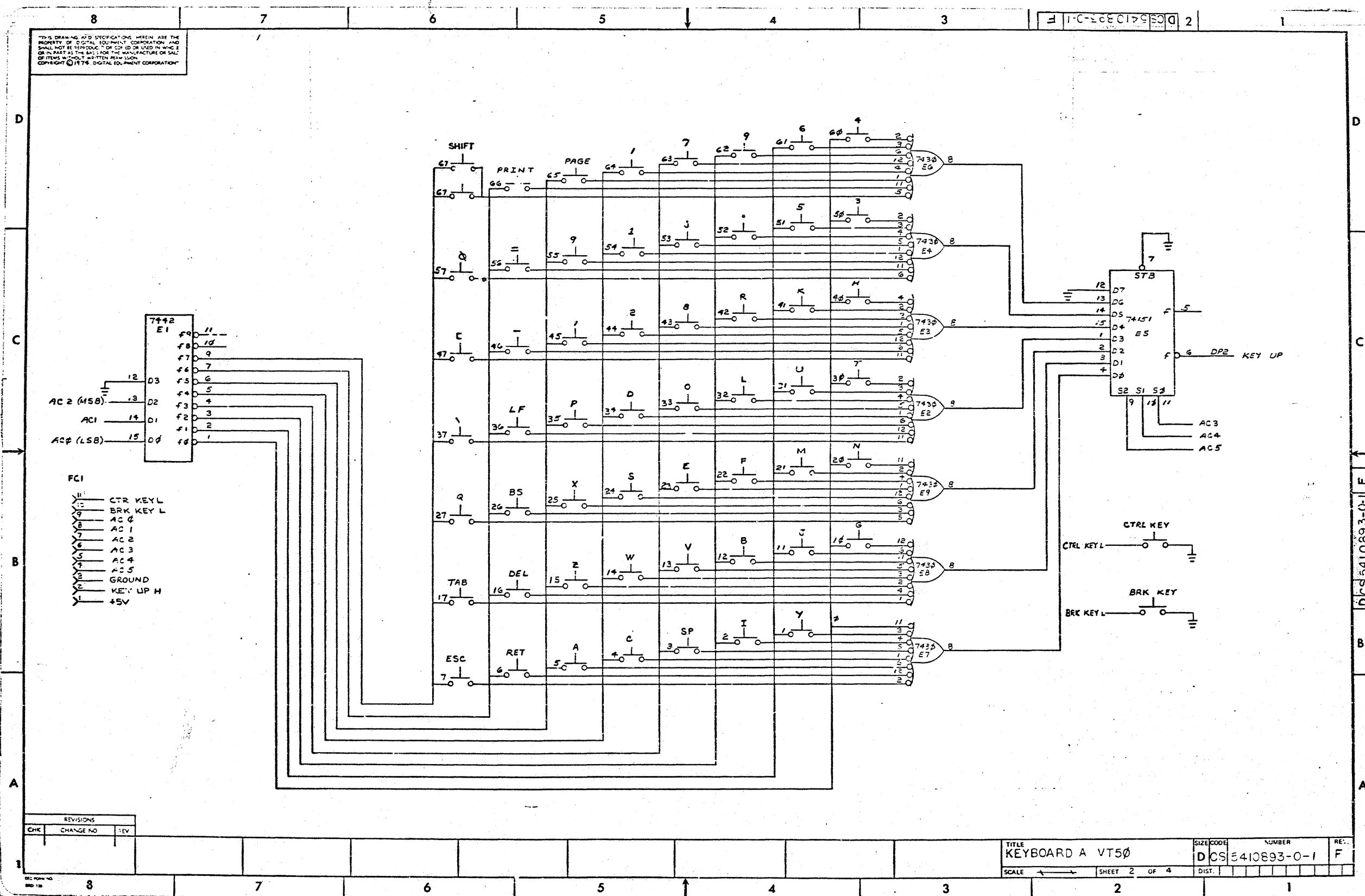
NUMBER	DIM 'X'	DIM 'Y' (PRECUT)
701144-0-D	134 MM ± 5 MM	150 MM ± 5 MM

REV.	CHANGE NO.	DATE	BY
A	00001		M. WHITTLESEY

FIRST USED ON OPTION/MODEL		PARTS LIST	
VT 50		QTY.	DESCRIPTION
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		4	TIEWRAP
TOLERANCES		3	CONTACT, CABLE
DECIMALS	ANGLES	2	HOUSING, CONN 10 PIN
.XXX = .005	± 0° 30'	1	CABLE RIBBON
.XX = .02			
.X = .1			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY V			
MATERIAL	NEXT HIGHER ASSY.		
SEE PARTS LIST	D-CS-5410906-0-1	SIZE CODE	NUMBER
FINISH		CAD	701144-0-0
		SHEET	OF
		DIST.	

REV. A  
NUMBER 701144-0-0

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1976, DIGITAL EQUIPMENT CORPORATION.



REVISIONS		
CHK	CHANGE NO	REV

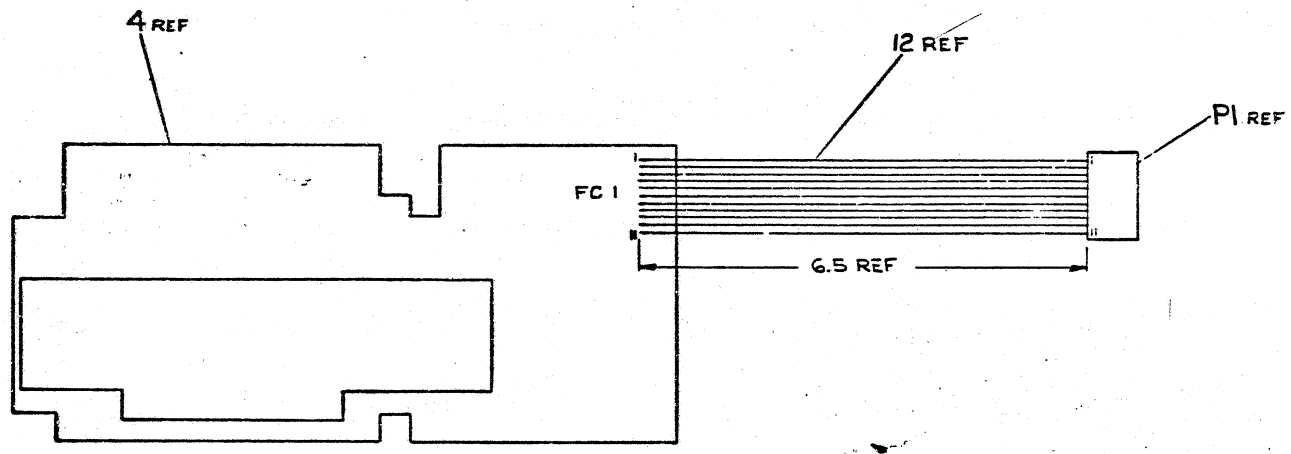
TITLE: KEYBOARD A VT50  
 SIZE CODE: DCS 5410893-0-1  
 NUMBER: F  
 SHEET 2 OF 4

DCS 5410893-0-1 F

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART IN THE U.S. FOR THE MANUFACTURE OF SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975 DIGITAL EQUIPMENT CORPORATION.

WIRE TABLE

ITEM NO	AWS	COLOR	FROM		TO		REMARKS
			CONN	WITH	CONN	WITH	
12	22	BLK	PI-1	---	FC1-1	SOLDER	+5V
		BRN	PI-2	---	FC1-2		KEY UP H
		RED	PI-3	---	FC1-3		GND
		ORN	PI-4	---	FC1-4		AC5
		YEL	PI-5	---	FC1-5		AC4
		GRN	PI-6	---	FC1-6		AC3
		BLU	PI-7	---	FC1-7		AC2
		VIO	PI-8	---	FC1-8		AC1
		GRY	PI-9	---	FC1-9		AC0
		WHT	PI-10	---	FC1-10		PRK KEY
12	22	BLK	PI-11	---	FC1-11	SOLDER	CTRL KEY



REVISIONS		
CHK	CHANGE NO	REV

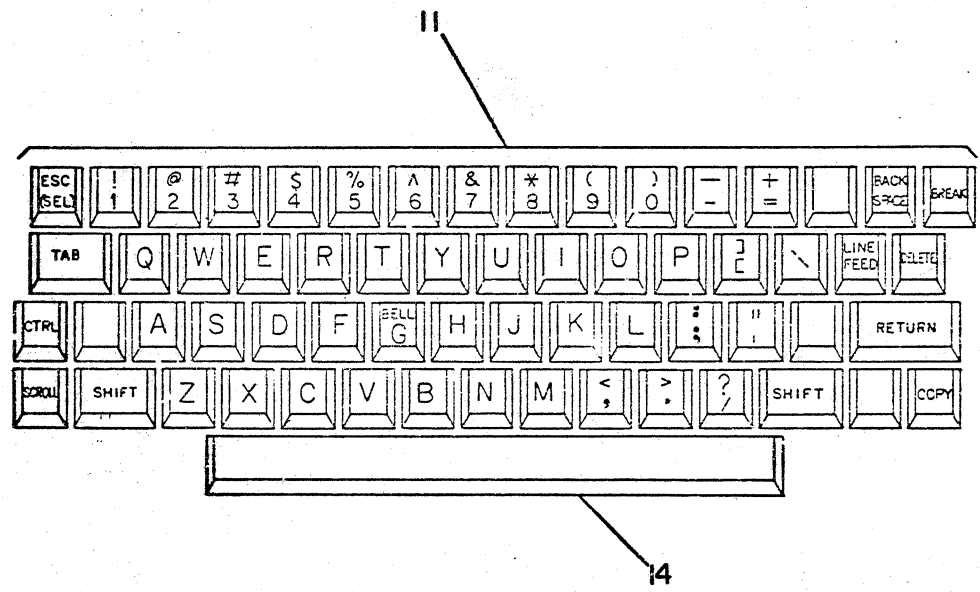


8 7 6 5 4 3 2 DCS 5410893-0-1 F 1

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT THE WRITTEN PERMISSION OF DIGITAL EQUIPMENT CORPORATION. COPYRIGHT © 1975 DIGITAL EQUIPMENT CORPORATION.

D  
C  
B  
A

D  
C  
B  
A



REVISIONS		
CHK	CHANGE NO	REV

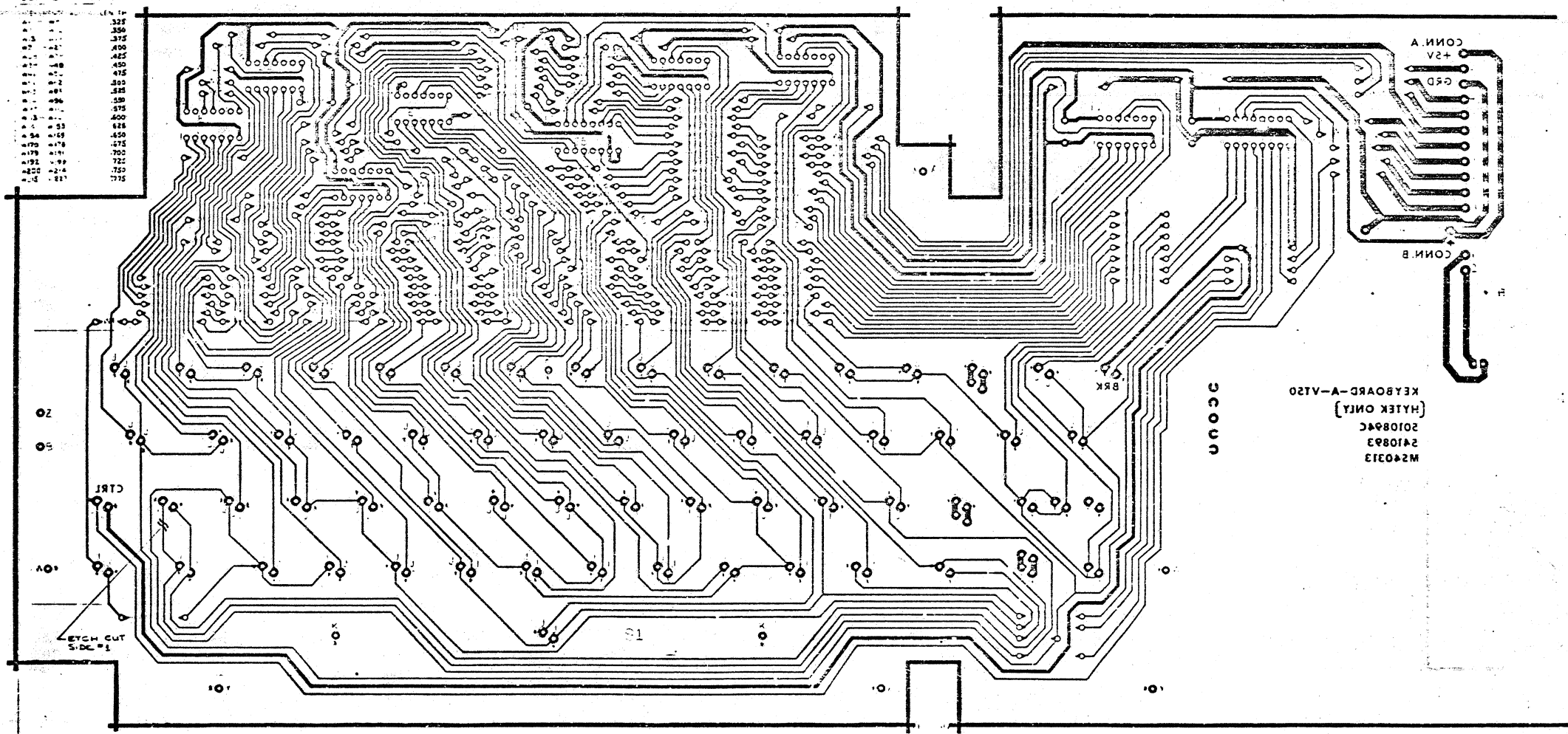
8 7 6 5 4 3 2 1

TITLE	KEYBOARD, VT50	SIZE CODE	D CS	NUM-BER	5410893-0-1	REV.	F
SCALE	SHEET 4 OF 4		DIST.				

DCS 5410893-0-1 F

**JUMPER TABLE**

A1	A1	327
A1	A1	359
A1	A1	375
A1	A1	400
A1	A1	425
A1	A1	450
A1	A1	475
A1	A1	500
A1	A1	525
A1	A1	550
A1	A1	575
A1	A1	600
A1	A1	625
A1	A1	650
A1	A1	675
A1	A1	700
A1	A1	725
A1	A1	750
A1	A1	775



**NOTES:**  
 DIMENSIONS ARE IN INCHES  
 DIMENSIONS IN MILLIMETERS ARE  
 APPROXIMATE  
 BRACKETS WILL SUPPLY BOARD MATERIAL  
 BY MAILING NAME OF MANUFACTURER  
 BOARD MATERIAL MADE OF REINFORCED EPOXY  
 BOARD ARE STRONGER THAN HALL 18125000000  
 BOARD HOLE SIZE 1/16" DIA. UNLESS OTHERWISE  
 SPECIFIED. DRILLING DATA IS AS FOLLOWS:

HOLE LETTER FOR PTH BOARDS	DRILL SIZES		CAN TAKE STRIPLETS YES NO	QTY OF HOLES
	BEFORE PLATE	AFTER PLATE		
NONE	X	551,0001		
A	X	1/16"		
A	X	1/8"		
A	X	3/16"		
A	X	1/4"		
A	X	5/16"		
A	X	3/8"		
A	X	7/16"		

**BOARD FABRICATION INFORMATION**  
 BOARD SIZE 12.00" x 18.00"  
 BOARD MATERIAL 1/16" FR-4  
 EYELET PLATED THRU  
 1 SIDED MULTI-LAYER  
 NOTCH BEFORE GOLD PLATING  
 NOTCH AFTER GOLD PLATING

DATE: 1/15/70 DRAWN: J. J. ... CHECKED: J. J. ... APPROVED: J. J. ...	PART NO: 3410893-0-5 REV: F MS

9-0-8680754W B

PRODUCT LINE VT 50  
 DATE RELEASED 1-10-75  
 RELEASED BY M MORGANSTERN

MODULE ECO HISTORY  
 PAGE 1 OF 1

RELEASED CS REV. B  
 RELEASED ETCH BD REV. C

ECO. NO.	ORIGINATOR	DATE WRITTEN	NEW CS REV.	NEW ETCH BOARD REV.	IS IT MANDATORY TO REWORK ALL EARLIER VERSIONS (NOW AVAILABLE OR RETURNED FOR REPAIR) TO THIS REVISION LEVEL?			ARE ALL REVISIONS OF THIS MODULE COMPLETELY COMPATIBLE NOW (CAN BE MIXED INDISCRIMINATELY)?			SIMPLIFIED CHANGE DESCRIPTION	NO. PARTS ADDED	NO. PARTS DELETED
					YES	NO	CONDITIONAL (EXPLAIN)	YES	NO	CONDITIONAL (EXPLAIN)			
00001	MORGANSTERN	FEB. 3, 75	C	-		X			X		KEYCAPS CHANGE TO COLORED SET		
00002	DICKENSON	FEB. 13, 75	D	-		X		X		ADD CABLE TO PRINT	1	1	
00003	DICKENSON	MAR. 4, 75	E	-		X		X		VARIATION ADDED	0	0	
00004	D. COLMAN	MAR. 24, 75	F	-		X		X		CUT ETCH	0	0	
00005	DICKENSON	AUG. 5, 75	H	D		X		X		NEW ETCH REV ADDED	0	0	

REV. NO.	REV.
00001	A
00002	B
00003	C
00004	D
00005	E

DRN. MMS DATE 1-10-75  
 CHK'D Wall DATE 1-10-75  
 ENG. Morganstern DATE 1-10-75  
 PROD. Morganstern DATE 1-10-75

EQUIPMENT CORPORATION  
 MAYNARD, MASSACHUSETTS

TITLE: MODULE ECO HISTORY  
 SIZE: B CODE: MA NUMBER: 5410893-0-6 REV. F

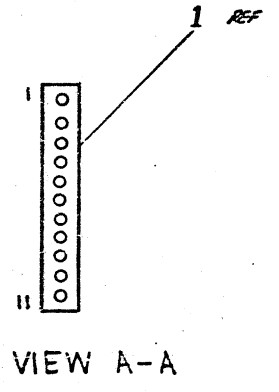
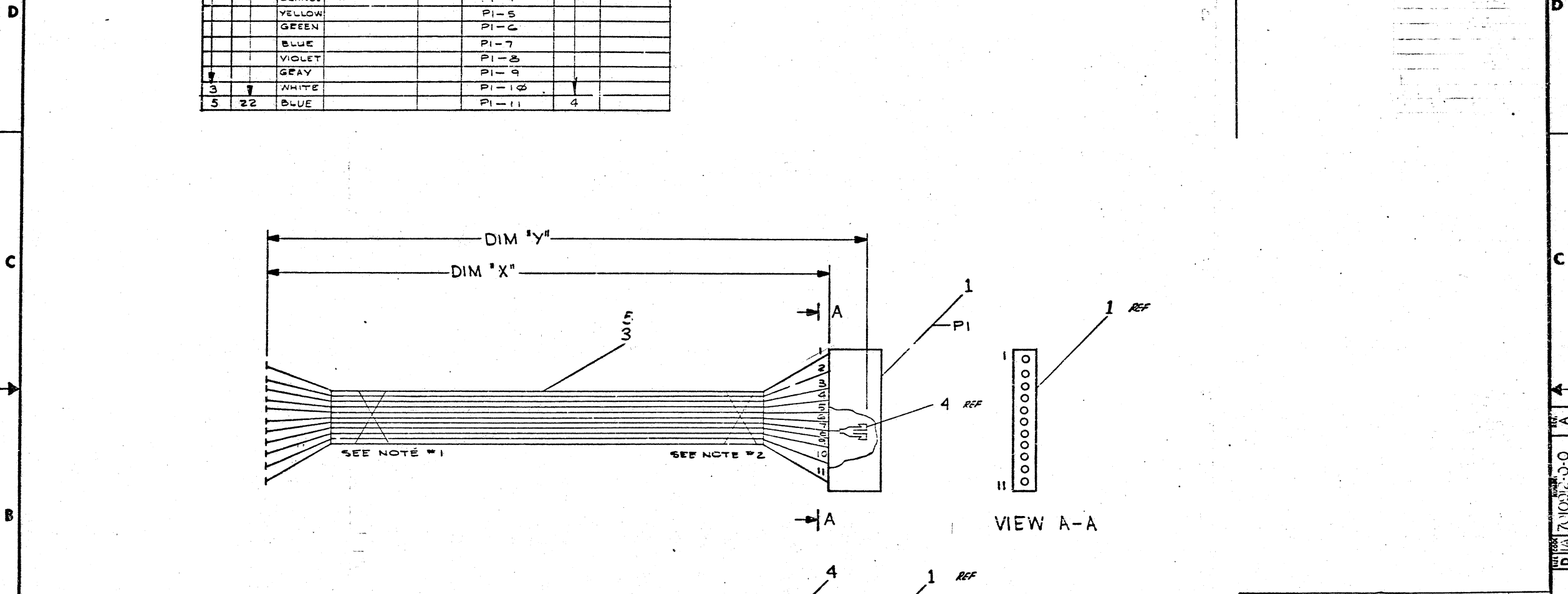


THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975, DIGITAL EQUIPMENT CORPORATION

WIRE TABLE					
ITEM NO	AWG	COLOR	FROM		REMARKS
			CONNECT ON	WITH CONNECTION WITH	
3	22	BLACK		P1-1	4
		BROWN		P1-2	
		RED		P1-3	
		ORANGE		P1-4	
		YELLOW		P1-5	
		GREEN		P1-6	
		BLUE		P1-7	
		VIOLET		P1-8	
		GRAY		P1-9	
3		WHITE		P1-10	
5	22	BLUE		P1-11	4

LEGEND		
NUMBER	DIM X VARIATION	DIM Y PRECUT
1	0.012 IN	8.0 IN

NOTES:  
 1. USE TIE WRAP (X) ITEM #2 1.5 INS FROM KEYBOARD END OF CABLE.  
 2. USE TIE WRAP (X) ITEM #2 1.0 INS FROM P1 END OF CABLE.



STRIP BACK INSULATION .125 ON BOTH ENDS

DESCRIPTION	DWG PART NO.	ITEM NO.
WR WIRE, STRND #22 AWS	917350-66	5
11 CONTACT RECP	9001609	4
WR CABLE R BRN 20COND 2LAWG	9107575	3
2 TIE WRAP - 1.5M	9007380	2
1 CONN. RECP HOUSING 11PN	211355	1

QUANTITY & VARIATION	DRN	FIRST USED ON
THIRD ANGLE PROJECTION	CHK'D	VT-2H
REMOVE BURRS AND BREAK SHARP CORNERS	ENG.	TITLE
DO NOT SCALE DWG	PROJ. ENG.	KEYBOARD CABLE
MATERIAL SEE PARTS LIST	PROD.	VT51/VT50H
FINISH	NEXT HIGHER ASSY.	(VT52H CABLE)
SCALE	SIZE	NUMBER
SHEET 1 OF 1	DIST.	VT010912-0-0

REV.	CHG	DATE	BY	APP
1				
2				
3				



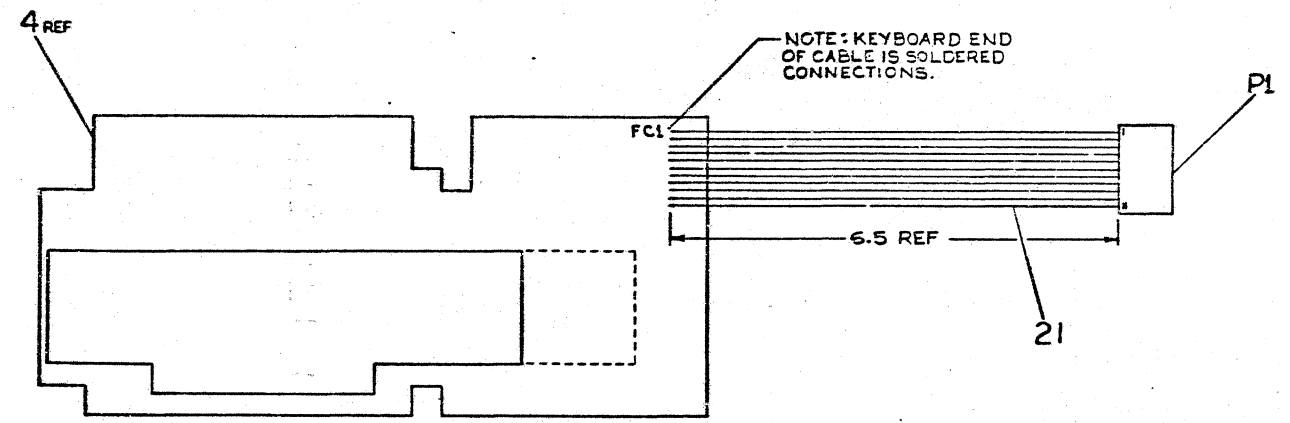






THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975, DIGITAL EQUIPMENT CORPORATION.

WIRE TABLE					
ITEM NO	DESCRIPTION	FROM	TO	REMARKS	
NO	AWG	COLOR	CONNECTION	CONNECTION	
21	*22	BLK	P1-1	FCI-2	+5V
		BRN	P1-2	FCI-3	KEY UP H
		RED	P1-3	FCI-4	GND
		ORN	P1-4	FCI-5	AC5
		YEL	P1-5	FCI-9	AC 4
		GRN	P1-6	FCI-10	AC3
		BLU	P1-7	FCI-11	AC2
		VIO	P1-8	FCI-12	AC1
		GRY	P1-9	FCI-13	AC0
		WHT	P1-10	FCI-6	BRK KEY
21	*22	BLK	P1-11	FCI-7	AC6



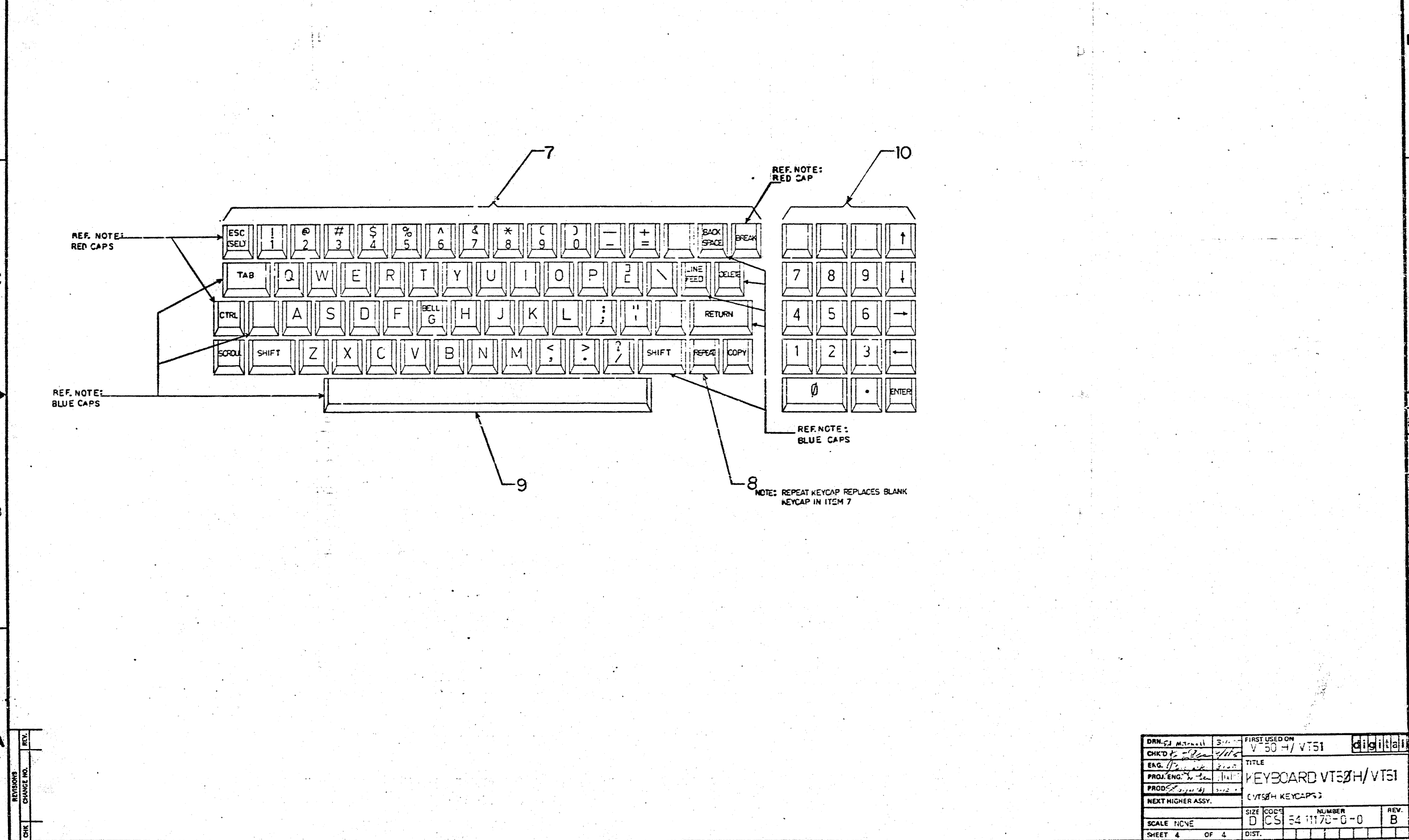
INCH

	DESCRIPTION	DWG PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
ANGLES 10° 30'	CLASS OF ACCURACY	TYPICAL DIMENSION RANGE INCHES	
SURFACE QUALITY	(CHECK DWF)	OVER 9 TO 0.2	OVER 0.2 TO 0.005
QUANTITY & VARIATION	MEDIUM	0.004 - 0.008	0.012 - 0.024
MICROINCHES	PREFERRED	0.012 - 0.018	0.025 - 0.063
DRN. <i>[Signature]</i>	FIRST USED ON	VT50H/VT51	
CHK'D. <i>[Signature]</i>	TITLE	KEYBOARD VT51/VT50H	
ENG. <i>[Signature]</i>	(CABLE CONN)		
PROJ. ENG. <i>[Signature]</i>	SCALE	D.E.S. 5411170-0-1	
PROD. <i>[Signature]</i>	SHEET 3 OF 4	DIST.	
DO NOT SCALE DWG	NEXT HIGHER ASSY.		
MATERIAL	FINISH		

REV. NO. 1  
DATE 11/17/70  
BY [Signature]

D.E.S. 5411170-0-1 B

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1973, DIGITAL EQUIPMENT CORPORATION



REV.	
CHANGE NO.	
CHK	

DRN. G. M. M. M.	3/11/73	FIRST USED ON	V 50 H / VT51	digital
CHK'D		TITLE	KEYBOARD VT50H/VT51	
ENG.		(VT50H KEYCAPS)		
PROJ. ENG.		SIZE	CODE	NUMBER
PROD.		D	CS	541170-0-0
NEXT HIGHER ASSY.		SCALE	NONE	REV.
		SHEET	4	OF 4
		DIST.		



REV. 0 9-541178-0-6 B

PRODUCT LINE 98  
 DATE RELEASED 3/21/75  
 RELEASED BY RUZYSKI

MODULE ECO HISTORY  
 PAGE 1 OF 1

RELEASED CS REV. A  
 RELEASED ETCH BD REV. B

ECO. NO.	ORIGINATOR	DATE WRITTEN	NEW CS REV.	NEW ETCH BOARD REV.	IS IT MANDATORY TO REWORK ALL EARLIER VERSIONS (NOW AVAILABLE OR RETURNED FOR REPAIR) TO THIS REVISION LEVEL?			ARE ALL REVISIONS OF THIS MODULE COMPLETELY COMPATIBLE NOW (CAN BE MIXED INDISCRIMINATELY)?			SIMPLIFIED CHANGE DESCRIPTION	NO. PARTS ADDED	NO. PARTS DELETED
					YES	NO	CONDITIONAL (EXPLAIN)	YES	NO	CONDITIONAL (EXPLAIN)			
00001	BUZYSKI		B	C		✓		✓			RELAYCUT TO REMOVE ECO WIRES		
0001A	BUZYSKI	5-1-75				✓		✓			DOC. CHG.		
00002	NEUMANN	29-OCT-75	C	C		X		X			DOC CHG	0	0

REVISIONS	CHK	CHG	NO.	REV.
	✓		00001	A
	✓		0001A	B
	✓		00002	C

DRN.	DATE
J. BUZYSKI	3-21-75
CHK'D	DATE
J. BUZYSKI	3-21-75
EMP.	DATE
J. BUZYSKI	3-21-75
PROD.	DATE
J. BUZYSKI	3-21-75

**MODULE ECO HISTORY**

**EQUIPMENT CORPORATION** MAYNARD, MASSACHUSETTS

SIZE | CODE | NUMBER | REV.

B | INVH | 541178-0-6 | C

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				QUANTITY/VARIATION																
PARTS LIST				7010933-0-0																
MADE BY	J. CAHILL	CHECKED	J. CAHILL	SECTION																
DATE	3/6/75	DATE	3/6/75	1																
ENG		PROD		ISSUED SECT.																
DATE		DATE		1																
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION																		
1	D-CS-5410886-1	MONITOR POWER SUPPLY		1																
2	D-CS-5410906-1	DATA PATHS MEMORY AND DECODER		1																
3	D-CS-5410902-1	ROM UART AND TIMING		1																
4	A-SP-3700179-0-0	PACKAGING INSTRUCTION: (DATA PATH BOARD, ROM/UART BOARD, POWER SUPPLY BOARD)		1																
5	A-SP-3700180-0-0	PACKAGING INSTRUCTION: (DATA PATH AND ROM/UART)		1																
6	A-SP-3700181-0-0	PACKAGING INSTRUCTION: (POWER SUPPLY BOARD)		1																
7	A-SP-3700182-0-0	PACKAGING INSTRUCTION: (KEYBOARD-CUSTOMER SHIPPING PACKAGE)		1																
TITLE				NEXT HIGH ASSY	SIZE	CODE	NUMBER	REV.	ECO NO.											
MODULE PACKAGE (VT50)				B-DD-VT50-0	A	PL	7010933-0-0													
				SHEET 1 OF 1	DIST.															

DEC FORM D1C 16 (325)-1031 N870  
DRA 110

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as a basis for the manufacture or sale of items without written permission.

DIGITAL EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS			
PACKAGING INSTRUCTION		REV: _____	DATE: _____
TITLE DATA PATH BOARD, ROM/UART BOARD, POWER SUPPLY BOARD			
<b>MATERIAL REQUIREMENTS</b>			
Quantity	Purchase Specification No.	Description	
1	9905683	Regular Slotted Carton	
1	9905677	Laminated Buildup	
1	9905678	Scored Sheet with Foam	
1	9905680	Die-Cut Carton with Foam	
1	9905682	Scored Sheet	
A/R	9905729	3-in. wide Glasflex Tape	
<b>NOTE</b>			
For individual shipment of each of the above packaged components, see the following Packaging Instructions:			
Component	PI No.		
ROM/UART (5410902) and Data Path (5410906)	A-SP-3700180-0-0		
Power Supply Board (5410886)	A-SP-3700181-0-0		
<b>PACKAGING INSTRUCTIONS</b>			
Step	Procedure		
1	Set up Regular Slotted Carton (9905683) using one strip of Glasflex tape across the bottom and one strip across each end.		
2	Fold up edges of Scored Sheet with Foam (9905678) with foam facing up and place it into the cavity of the Laminated Buildup (9905677). Make sure that the cutouts in the foam match the cutouts in the bottom of the Laminated Buildup.		
3	Place Power Supply Board (5410886) in the Scored Sheet and Laminated Buildup assembly by feeding the high voltage lead through the round hole in the foam pad and by feeding the black and red wires through the rectangular hole in the foam pad. Push the power supply down into the cavity in the Laminated Buildup. Do not bend the pins.		
4	Fold the top flap of the Laminated Buildup down over the Power Supply and feed the tube socket harness through the round hole in the top flap.		
5	Fold the bottom flap of the Laminated Buildup down and place the whole assembly into the Regular Slotted Carton. Position the assembly so that the bottom flaps are down and the sloping face is toward the outside end of the Regular Slotted Carton.		
ENG L. Patton 3/1/75	APPD J. W. Lawrence 3/1/75	SIZE A	CODE NUMBER SP 3700179-0-0
DEC 8-(1931)-1031-1-R671 ORA - 130			
SHEET 1 OF 3			

PACKAGING INSTRUCTION		CONTINUATION SHEET
TITLE DATA PATH BOARD, ROM/UART BOARD, POWER SUPPLY BOARD		
Step	Procedure	
6	Fold the Scored Sheet (9905682) into a "W" form and place it between the power supply assembly and the end of the Regular Slotted Carton.	
7	Open the two top flaps of the Die-Cut Carton with Foam assembly (9905680) which has been supplied set-up.	
8	Place one ROM/UART Board (5410902) in the side of the Die-Cut Carton with the three pieces of foam on the top flap. Place the board into the cavity with the pins facing toward the middle divider. The pins fit into the slots provided in the middle divider.	
9	Place one Data Path Board (5410902) into the second cavity with the pin connector toward the middle divider.	
10	Close the Die Cut Carton across the top with one strip of Glasflex tape.	
11	Place the Die-Cut Carton assembly (tape facing down) into the Regular Slotted Carton.	
12	Close and seal the Regular Slotted Carton using one strip of Glasflex tape across the middle and one strip across each end.	
ENG L. Patton 3/1/75	APPD J. W. Lawrence 3/1/75	SIZE CODE NUMBER A SP 3700179-0-0
DEC 8-(1931)-1031-2-R671 ORA - 130		
SHEET 2 OF 3		

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as a basis for the manufacture or sale of items without written permission.

PACKAGING INSTRUCTION		REV: _____	DATE: _____
TITLE DATA PATH BOARD, ROM/UART BOARD, POWER SUPPLY BOARD			
<b>NOTE:</b> Note changes to "C" size original only and rephotograph.			
ENG L. Patton 3/1/75	APPD J. W. Lawrence 3/1/75	SIZE A	CODE NUMBER SP 3700179-0-0
DEC 8-(1931)-1031-1-R671 ORA - 130			
SHEET 1 OF 3			

PACKAGING INSTRUCTION		CONTINUATION SHEET
TITLE DATA PATH BOARD, ROM/UART BOARD, POWER SUPPLY BOARD		
12	Close and seal the Regular Slotted Carton using one strip of Glasflex tape across the middle and one strip across each end.	
ENG L. Patton 3/1/75	APPD J. W. Lawrence 3/1/75	SIZE CODE NUMBER A SP 3700179-0-0
DEC 8-(1931)-1031-2-R671 ORA - 130		
SHEET 2 OF 3		

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part for the manufacture or sale of items without written permission.

DIGITAL EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS						
PACKAGING INSTRUCTION				REV:	DATE:	
TITLE DATA PATH (5410906) and ROM/UART (5410902) SHIPPING PACKAGE				_____	_____	_____
MATERIAL REQUIREMENTS						
Quantity	Purchase Specification No.	Description				
1	9905680	Die-Cut Carton with Foam				
1	9905681	Scored Sheet				
A/R	9905729	Glasflex Tape				
PACKAGING INSTRUCTIONS						
Step	Procedure					
1	Open the two top flaps on the Die-Cut with Foam (9905680) which has been supplied set-up.					
2	Place one ROM/UART Board (5410902) components facing up into the section of the Die-Cut Carton with the three pieces of foam on the top flap. Place the board into the cavity with the pins facing toward the middle divider. The pins fit into the slots provided in the middle divider.					
3	Place one Data Path Board (5410902) components facing up into the second cavity.					
4	Close Die-Cut Carton and seal across the top with one strip of Glasflex tape.					
5	Place the Die-Cut Carton assembly (tape face down) into the Scored Sheet (9905681). Fold up each end of the Die-Cut Carton and seal with one strip of tape across the middle and one strip across each end.					
ENG <i>Bill Patton 3/21/75</i>	APPD <i>J. Williams 3/21/75</i>	SIZE A	CODE SP	NUMBER 3700180-0-0	REV	_____

DEC 8-15511-1031-1-R671  
DRA - 127

SHEET 1 OF 2

PACKAGING INSTRUCTION				REV:	DATE:	
TITLE DATA PATH (5410906) AND ROM/UART (5410902) SHIPPING PACKAGE				_____	_____	_____
<p>NOTE: Make changes to "C" size original only and rephotograph.</p>						
ENG. <i>Bill Patton 3/21/75</i>	APPD. <i>J. Williams 3/21/75</i>	SIZE A	CODE SP	NUMBER 3700180-0-0	REV	_____
SHEET 2 OF 2						

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part for the manufacture or sale of items without written permission.



This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

DIGITAL EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS				
PACKAGING INSTRUCTION			REV: _____	DATE: _____
TITLE POWER SUPPLY BOARD (5410886)			_____	_____
<b>MATERIAL REQUIREMENTS</b>				
Quantity	Purchase Specification No.	Description		
1	9905679	Regular Slotted Carton		
1	9905678	Scored Sheet/with Foam		
1	9905677	Laminated Buildup		
A/R		Glasflex Tape		
<b>PACKAGING INSTRUCTIONS</b>				
Step	Procedure			
1	Set up Regular Slotted Carton (9905679) using one strip of Glasflex tape across the bottom and one strip across each end.			
2	Fold up edges of the Scored Sheet with Foam (9905678) with foam facing up and place it into the cavity of the Laminated Buildup (9905677). Make sure that the cutouts in the foam match the cutout in the bottom of the Laminated Buildup.			
3	Place the Power Supply Board (5410886) in the Scored Sheet and Laminated Buildup assembly by feeding the high voltage lead through the round hole in the foam pad, and by feeding the black and red wires through the rectangular hole in the foam pad. Push the power supply down into the cavity. <i>Do not bend the pins.</i>			
4	Fold the top flap of the Laminated Buildup down over the Power Supply Board and feed the tube socket harness through the round hole in the top flap.			
5	Fold the three bottom flaps of the Laminated Buildup down and place the whole assembly into the set up Regular Slotted Carton.			
6	Close and seal the Regular Slotted Carton using one strip of Glasflex tape across the middle and one strip across each end.			
ENG E. Patten 2/21/75	APPD. J.W. Lawrence 3/21/75	SIZE A	CODE SP	NUMBER 3700181-0-0

DEC 8-1551-1021-1-0671  
ORA - 129

SHEET 1 OF 2

PACKAGING INSTRUCTION				REV: _____	DATE: _____
TITLE POWER SUPPLY BOARD (5410886) SHIPPING PACKAGE				_____	_____
<p><b>NOTE:</b> Mini changes to "C" size original only and rephotograph.</p>					
ENG. E. Patten 2/21/75	APPD. J.W. Lawrence 3/21/75	SIZE A	CODE SP	NUMBER 3700181-0-0	

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

SHEET 2 OF 2

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

DIGITAL EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS				
PACKAGING INSTRUCTION			REV: _____	DATE: _____
TITLE KEYBOARD (5410893) CUSTOMER SHIPPING PACKAGE			_____	_____
MATERIAL REQUIREMENTS				
Quantity	Purchase Specification No.	Description		
1	9905676	Die-Cut Sheet with Foam		
1	9905679	Regular Slotted Carton		
A/R	9905729	3-in. wide Glasflex Tape		
PACKAGING INSTRUCTIONS				
Step	Procedure			
1	Place keyboard on Die-Cut Sheet with Foam (9905676) with spacer bar toward the "Spacer Bar Here" printing on the Die-Cut Sheet.			
2	Fold the rear sheet down and over the keyboard so that the keys and covered wires fit up through the cutouts in the sheet.			
3	Fold up and down over the keyboard so that the foam is held down on top of the keys.			
4	Fold the two side pieces up so that the tabs (6) on the part holding the keyboard down fit into the slots in the side pieces.			
5	Set up Regular Slotted Carton and tape with one strip of Glasflex tape across the middle and one strip across each end.			
6	Place Die-Cut Sheet with Foam and keyboard assembly into the Regular Slotted Carton with the keys facing up.			
7	Close and seal carton with one strip of Glasflex tape across the middle and one strip across each end.			
ENG E. Patton 3/21/75	APPD J. Lawrence 3/21/75	SIZE A	CODE SP	NUMBER 3700182-0-0

DEC 8-(551)-1031-1-R171  
DRA - 129

SHEET 1 OF 2

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

PACKAGING INSTRUCTION				REV: _____	DATE: _____
TITLE KEYBOARD(5410893) CUSTOMER SHIPPING PACKAGE				_____	_____
NOTE: Make changes to "C" size original only and rephotograph.					
ENG E. Patton 3/21/75	APPD J. Lawrence 3/21/75	SIZE A	CODE SP	NUMBER 3700182-0-0	
SHEET 2 OF 2					

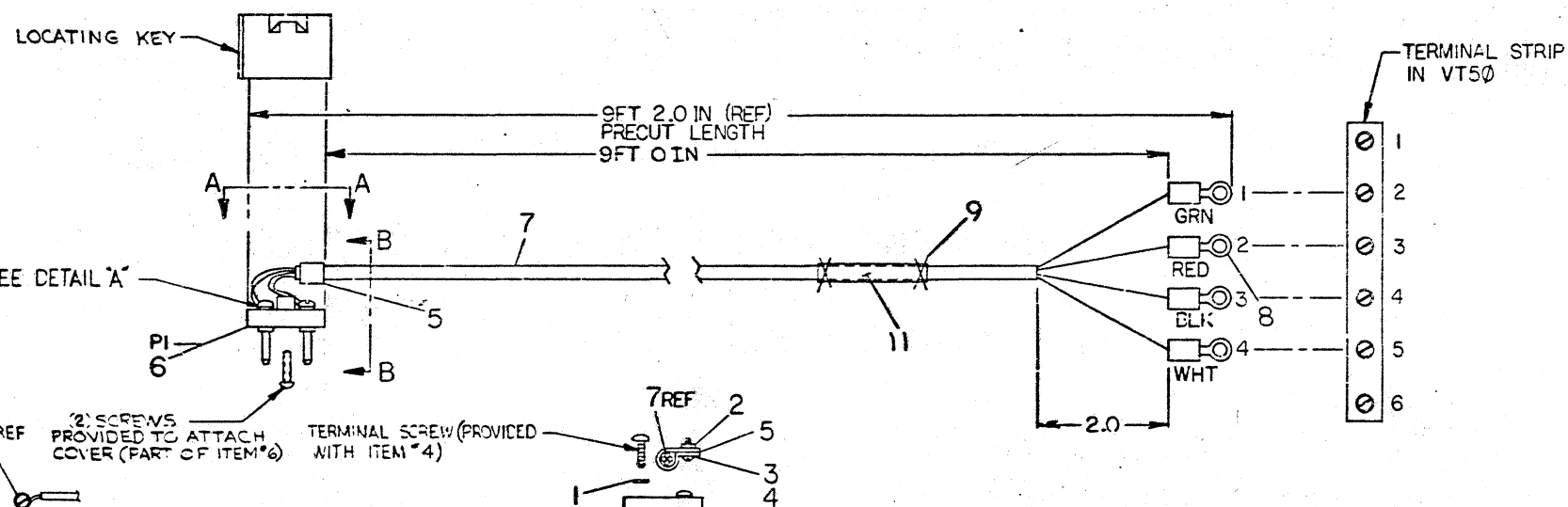
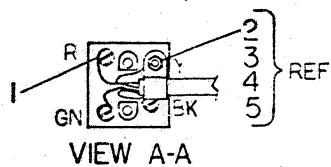
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION											
PARTS LIST			VT50-CA	VT50-CB	VT50-CC	VT50-DA	VT50-DB	VT50-DC						
MADE BY S. R. HOLMES		CHECKED S. R. HOLMES	SECTION											
DATE 7 April 1975		DATE 7 April 1975	ISSUED SECT.											
ENG S. R. HOLMES		PROD S. R. HOLMES												
DATE 4-11-75		DATE 4-11-75												
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	VT50-CA	VT50-CB	VT50-CC	VT50-DA	VT50-DB	VT50-DC						
1	MD-10-DCVTA	VT05, VT06, VT50 Diagnostic; with Listing	1	1	1	1	1	1						
2	7011089	DECsystem-10 "283B Conn to VT50 Term" Cable NOTE: Insure that this cable is shipped with terminal, usually installed by Manufacturer. If cable is not installed from the Manufacturer, insure parts required to create cable in field are shipped i.e., -add: 1-1205857-0-2, and 1-1205857-0-1, 1-7011089-0-0 cable print to contents of the shipping container.	1	1	1	1	1	1						
3	DEC-00-HVT5A-A-D	VT50 Video Terminal Programmer's Manual NOTE: Insure 1 manual per VT50 shipped. Terminal usually contains a manual when shipped from Manufacturer.	1	1	1	1	1	1						
4	VT50-TT #1	VT50 Tech Tip #1, VT50 Installation and Maintenance Guide. NOTE: 1 per site.	NA					NA						
TITLE VT50 SHIPPING LIST DECsystem-10			ASSY NO.		SIZE CODE A PL	NUMBER PDPI0-0-SHIP		REV. -	ECO NO. VT50-00010					
SHEET   OF			DIST.											

DEC FORM DEC 16-(325)-1031-N870  
DRA 110

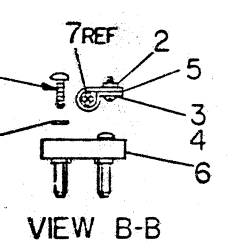
THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED, COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1972, DIGITAL EQUIPMENT CORPORATION.

DESCRIPTION		FROM		TO		SIGNAL
COLOR	POINT	CONNECTOR WITH	POINT	CONNECTOR	WITH	
RED	---	P - R	---	2	ITEM # 8	KEYBOARD-OUTPUT
BLK	---	P - BK	---	3	1	PRINTER-(INPUT)
GRN	---	P1 - GN	---	1	---	KEYBOARD-OUTPUT
WHT	---	P - Y	---	4	ITEM # 8	PRINTER - (PLT)

- NOTES:
- DISCARD SMALL SCREW SUPPLIED WITH PLUG (ITEM #6).
  - ATTACH CONN (ITEM #3) TO CABLE WITH ONE (1) CABLE TIE (ITEM #9) DO NOT REMOVE CONN FROM BAG.



WIRE IS STRIPPED AND WRAPPED IN A CLOCKWISE DIRECTION UNDER FLAT WASHER ITEM #1  
DETAIL 'A'

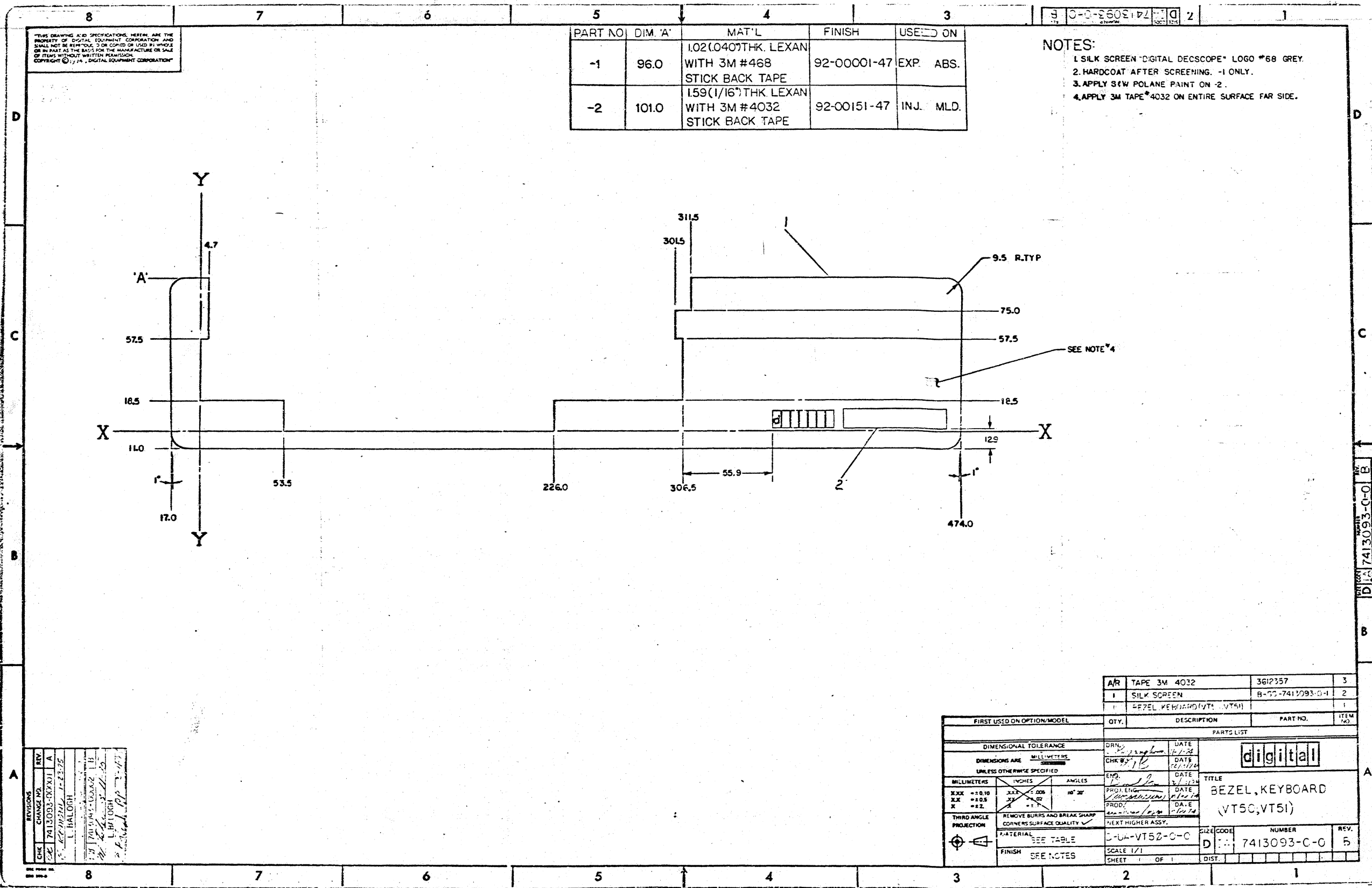


QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	LABEL, CABLE ID	9009532	11
1	CONN, TELEPHONE (ACK)	1205357-02	10
3	CABLE TIE	9007880	9
4	TERMINAL RING TONGUE	900930-00	8
A/R	CABLE, 4 CONDUCTOR	907706	7
1	CONN, TELEPHONE (PLUG)	1205357-01	6
1	CABLE CLAMP #2	9007079	5
1	WASHER, FLAT NYLON #4	9006706	4
1	SCR, NYLON BIND, HD 4-4CX38	9006401-4	3
1	NUT, NYLON #4-40	9007992	2
4	WASHER, FLAT #4	9007312	1

FIRST USED ON OPTION/MODEL		DATE		DATE	
VT50/DEC SYSTEM 10		LITL		CHK	
DIMENSIONAL TOLERANCE		UNLESS OTHERWISE SPECIFIED		TITLE	
DIMENSIONS ARE IN MILLIMETERS		UNLESS OTHERWISE SPECIFIED		2538 CONN TO VT50 TERM	
MILLIMETERS		INCHES		SCALE	
XXX ±0.10	XX ±0.05	XX ±0.02	X ±0.1	DIA 701089-0-0	
THIRD ANGLE PROJECTION		REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		SHEET	
MATERIAL		FINISH		REV.	
SEE PARTS LIST		SCALE		DIST.	

REV.	CHANGE NO.	DESCRIPTION

701089-0-0



THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974, DIGITAL EQUIPMENT CORPORATION

PART NO	DIM. A'	MAT'L	FINISH	USE ON
-1	96.0	1.02(.040)THK. LEXAN WITH 3M #468 STICK BACK TAPE	92-00001-47	EXP. ABS.
-2	101.0	1.59(1/16")THK LEXAN WITH 3M #4032 STICK BACK TAPE	92-00151-47	INJ. MLD.

- NOTES:
1. SILK SCREEN "DIGITAL DECSCOPE" LOGO #68 GREY.
  2. HARDCOAT AFTER SCREENING. -1 ONLY.
  3. APPLY S&W POLANE PAINT ON -2.
  4. APPLY 3M TAPE #4032 ON ENTIRE SURFACE FAR SIDE.

REV	DATE	BY	CHK	DESCRIPTION
1	11/11/74	L. HALOGH		REVISED TO ADD DIMENSIONS FOR KEYBOARD
2	12/11/74	L. HALOGH		REVISED TO ADD DIMENSIONS FOR KEYBOARD
3	12/11/74	L. HALOGH		REVISED TO ADD DIMENSIONS FOR KEYBOARD

QTY.	DESCRIPTION	PART NO.	ITEM NO.
AR	TAPE 3M 4032	3612357	3
I	SILK SCREEN	B-95-7413093-C-1	2
I	BEZEL KEYPAD(VT50, VT51)		1

FIRST USED ON OPTION/MODEL		PARTS LIST	
DIMENSIONAL TOLERANCE		TITLE	
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED		BEZEL, KEYBOARD (VT50, VT51)	
MILLIMETERS	INCHES	ANGLES	DATE
XXX ±0.10	XX ±.005	90° 20'	3/1/74
XX ±0.5	X ±.02		DATE
X ±.2			3/1/74
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	SCALE	1/1
		SHEET	OF 1
MATERIAL	SEE TABLE	SIZE CODE	D
FINISH	SEE NOTES	NUMBER	7413093-C-0
		REV.	5

DIGITAL 7413093-C-0 B

"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 © 1975 DIGITAL EQUIPMENT CORPORATION"

12,954

**digital** decscope

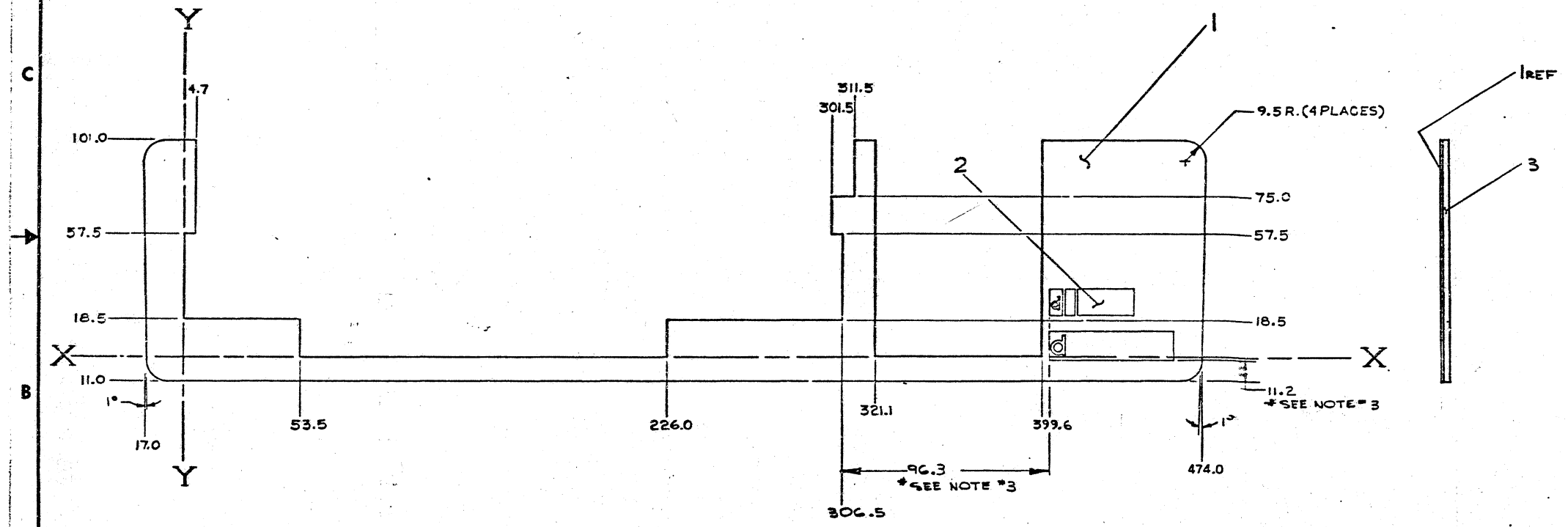
REVISIONS	CHANGE NO.	REV.
	CHK	

35,880  
SPEC# 9200101-68 GRAY

DRN. / DEVIERS 2-20-75	FIRST USED ON	UT50	digital
CHK'D / 2-20-75	TITLE		
ENG. / 2-20-75	BEZEL KEYBOARD		
PROJ. ENG. / 2-1-75	UT50		
PROD. / 2-1-75	NEXT HIGHER ASSY.		
D-IA-7413093-0-0	SIZE	CODE	NUMBER
SCALE 1/1	A	SS	7413093-0-1
SHEET 1	OF 1	DIST.	

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974, DIGITAL EQUIPMENT CORPORATION

- NOTES:
1. MATERIAL USE 1.02(.040) THK LEXAN WITH 3M # 4032 STICKBACK TAPE TO THE ENTIRE BACK SURFACE OF THE BEZEL
  2. APPLY 5 W POLANE PAINT 92-00191-47
  3. SILK SCREEN DIMENSION ONLY



METRIC DIMENSIONS

REV.	NO.	DATE	BY	CHKD.
1	A	4-27-74	J. J. J.	J. J. J.
2	B	4-27-74	J. J. J.	J. J. J.

1	TAPE 3M # 4032	3612357	3
1	SILK SCREEN	7413432-0-1	2
1	BEZEL, KEYBOARD		1

THIRD ANGLE PROJECTION		DRN: [Signature]	FIRST USED ON: [Signature]
REMOVE BURRS AND BREAK SHARP CORNERS		CHKD: [Signature]	TITLE: BEZEL KEYBOARD (VT50H)
DO NOT SCALE DWG		ENG: [Signature]	PROD. [Signature]
FINISH SEE NOTE #2		SCALE 1/1	SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS					
ANGLES	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE MILLIMETER			
10°-30°	CHECK ONE	0-25	25-100	100-250	250-1000
		±0.1	±0.2	±0.4	±0.6
		±0.3	±0.4	±0.6	±1.0
		±0.3	±0.4	±0.6	±1.6

1 IAI 7413432-0-0 A



"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION, AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975 DIGITAL EQUIPMENT CORPORATION"

digital

decscope

11.2

96.9

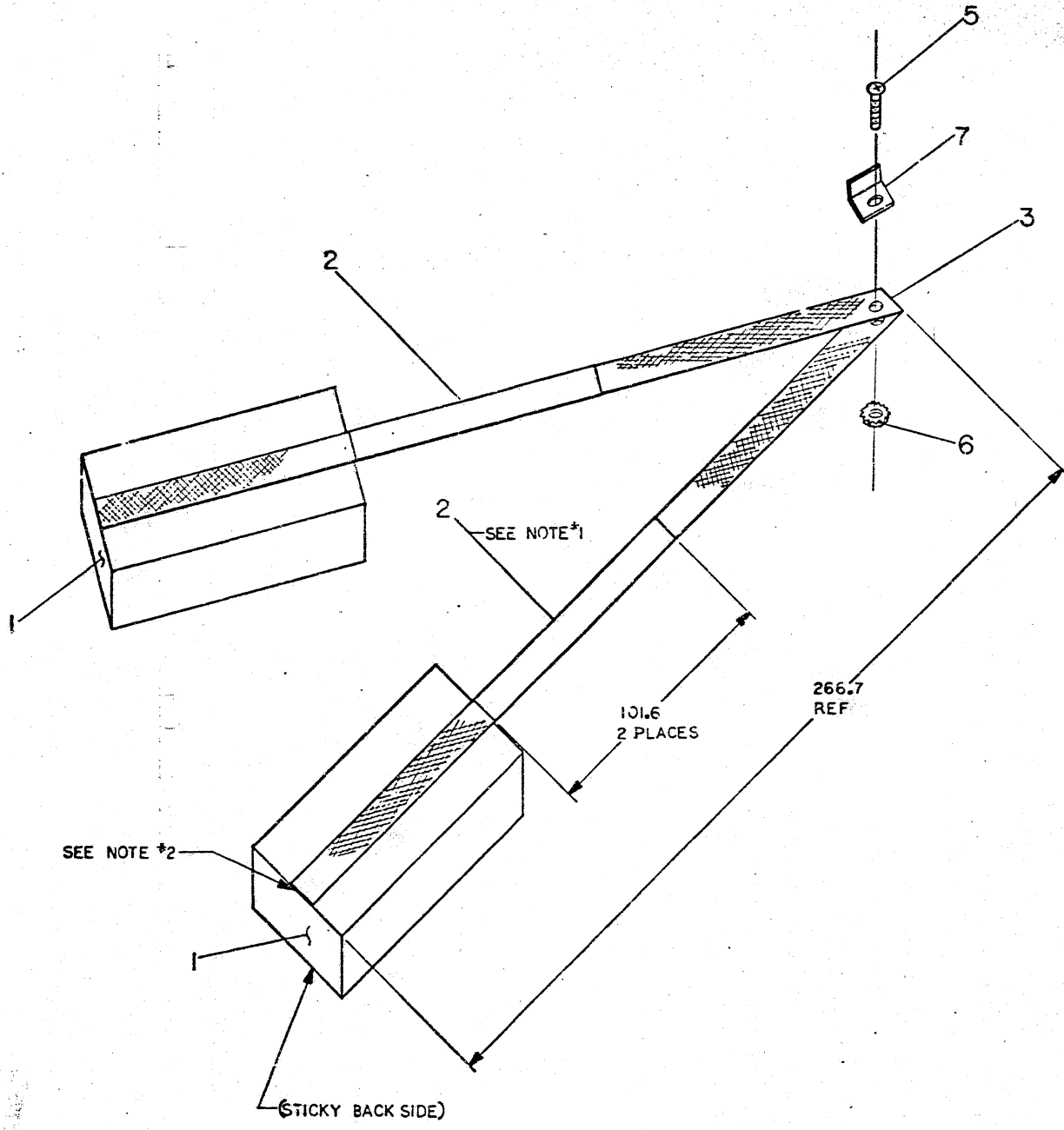
REVISIONS	CHANGE NO.	REV.
	CHK	

SPEC# 9200100-68 GARY

DRN. <i>J. DeMeyer</i>	2-20-75	FIRST USED ON	UTSI & VTSO#	digital
CHK'D		TITLE	KEYBOARD	
ENS. <i>DAK</i>	3-4-75	(UTSI + VTSO#)		
PROJ. ENG.		NEXT HIGHER ASSY.		
PROD.		SIZE	CODE	NUMBER
		A	SS	7413432-0-1
SCALE		SHEET	OF	DIST.

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. DIGITAL EQUIPMENT CORPORATION © 1975

NOTES:  
 1. INSTALL TUBING (ITEM 2) OVER STRAP (ITEM 3) BEFORE CEMENTING TO SUPPORT (ITEM 1)  
 2. CENTER STRAP ON SUPPORT, USING CEMENT (ITEM 4) ADHERE TOGETHER. DO NOT ALLOW CEMENT ON TOP OF STRAP



1	MALE FAST ON	9007253	7
1	NUT KEPS #6-32	9008185	6
1	SCR PHL PAN HD #6-32x.50LG	9006024-1	5
A/R	CEMENT HYCOND CONTACT	9007534	4
1	STRAP GND	2-MD-7413958-0-0	3
A/R	TUBING PVC (12.70 MM. BLK)	9107246	2
2	SUPPORT CRT GROUNDING	2-MD-7413757-0-0	1

QTY	DESCRIPTION	DWG PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS			
ANGLES 20°/20°			
CLASS OF ACCURACY			
SURFACE QUALITY IN (CHECK ONE)			
MICROFINISH			

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

DPN: [Signature] 4/11/75

CHK'D: [Signature]

ENG: [Signature]

PROJ. ENG: [Signature]

PROD: [Signature]

FIRST USED ON VT50

TITLE CRT, GROUNDING ASSEMBLY

SIZE CODE 1

SCALE NONE

SHEET 1 OF 1

NUMBER 7011197-0-0

REV.

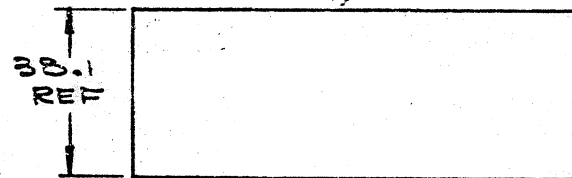
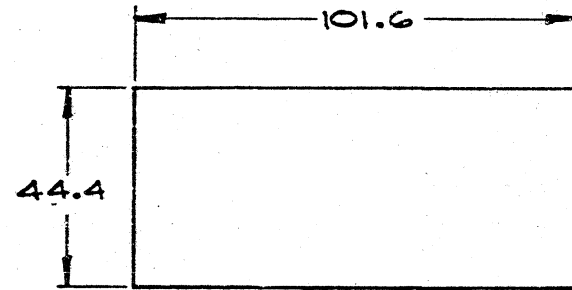
REV.	
CHANGE NO.	
CHK	
DATE	

1 IA 701197-0-0

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975 DIGITAL EQUIPMENT CORPORATION

NOTES:

1. MAKE FROM DEC PART #9008269-01



(STICKY BACK SIDE)

REV.	CHANGE NO.	REVISIONS

1	FOAM 1/2 X 54 X 30" (GRY)	9008269-01	1
2			
3			
4			

DESCRIPTION		DWG./PART NO.	ITEM NO.				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS							
ANGLES +0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE MILLIMETER					
		OVER 1 TO 5	OVER 5 TO 30	OVER 30 TO 100	OVER 100 TO 300	OVER 300 TO 1000	OVER 1000 TO 2000
SURFACE QUALITY IN.	MEDIUM	±0.1	±0.2	±0.3	±0.4	±0.6	±1.0
	PREFERRED	±0.3	±0.4	±0.6	±1.0	±1.6	±2.5

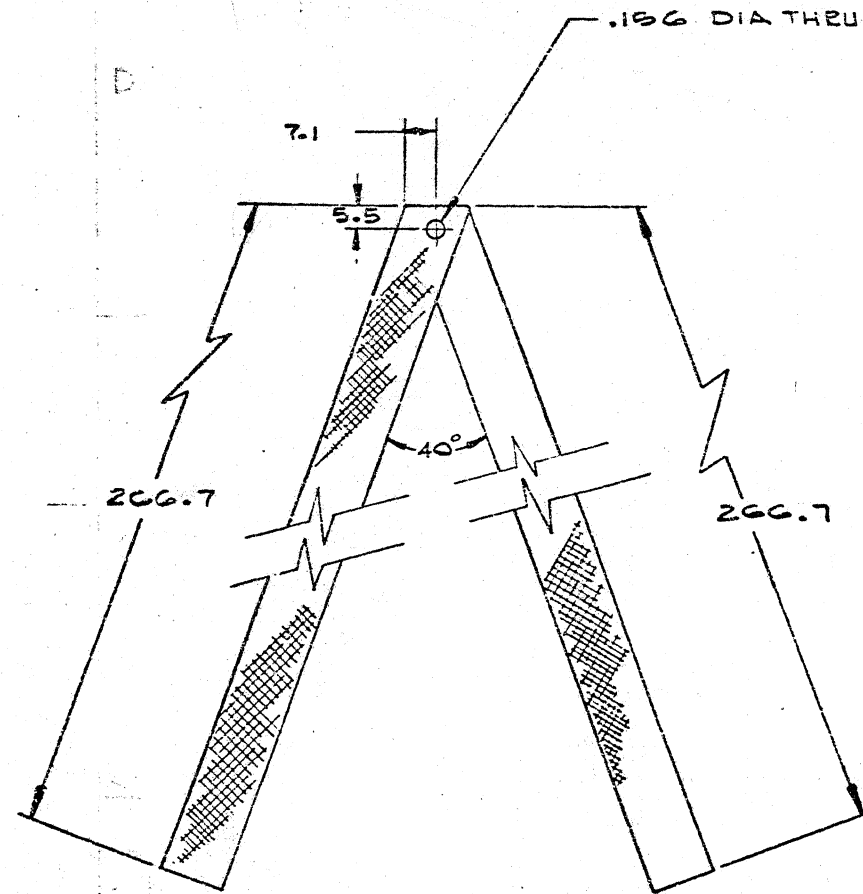
  

THIRD ANGLE PROJECTION	DRN. George D. ... 4/16/75	FIRST USED ON	VT50
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D. ... 4/29/75	TITLE	SUPPORT, CRT GROUNDING
DO NOT SCALE DWG	PROJ. ENG. ... 4/27/75	SIZE	2 MD
MATERIAL SEE NOTE #1	PRCD. ... 4/27/75	CODE	MD
FINISH	NEXT HIGHER ASSY.	NUMBER	7413757-0-0
		REV.	

MD 7413757-0-0

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.  
 COPYRIGHT © 1975 DIGITAL EQUIPMENT CORPORATION

NOTES:  
 1. MAKE FROM PURCHASE SPEC  
 A-PS-9107682-0-0



METRIC DIMENSIONS

REV.	CHANGE NO.	CHK.

DEC FORM NO. DA2-120

1	SHIELDING, BRAIDED	9107682	1
DESCRIPTION		DWG./PART NO.	
QUANTITY & VARIATION		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS			
ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE MILLIMETER	
SURFACE QUALITY IN MICROINCHES	MEDIUM	OVER 1 TO 5	OVER 5 TO 30
	PREFERRED	OVER 30 TO 100	OVER 100 TO 300
		OVER 300 TO 1000	OVER 1000 TO 2000
THIRD ANGLE PROJECTION	DRN. [Signature]	FIRST USED ON	
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D [Signature]	VT50	
DO NOT SCALE DWG	ENG. [Signature]	TITLE	
MATERIAL SEE PARTS LIST	PROD. [Signature]	STRAP, BRAIDED	
FINISH	NEXT HIGHER ASSY.	SIZE	CODE
		2	MD
		NUMBER	
		7413956-0-0	
		REV.	

2 MD 7413956-0-0

A