

1

2

3

4

5

6

7

8

A

B

C

D

E

F

A

B

C

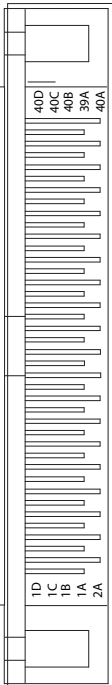
D

E

F

939

11



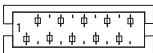
X10



X27



C1



X30



S1



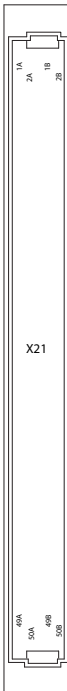
X35



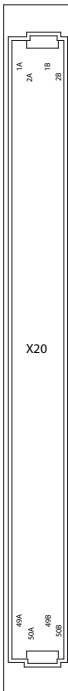
X31



X22

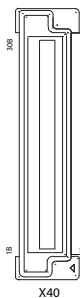


X21



X20

AREA FOR ISOLATION PLATE ONLY IF NEEDED



X40



H2



H1

51

ASSEMBLY LAYER 1

REMOVE ALL STICKERS AND (METAL) CLIPS FOR THE PICK AND PLACE MACHINE AFTER ASSEMBLY		
COMPONENTS MARKED WITH A CROSS ARE NOT MOUNTED		
STATUS: 01		
ASS. 12NC: 3922 406 53070		
ASS. NAME: MOTHERBOARD CAM HD		
PCB. 12NC: 3922 411 53072		
ASSEMBLY TOP	CURR. DATE: 07-01-23	
SCALE 0.7 : 1	PREV. DATE: 06-02-22	
P.VISSERS	ORG. DATE: 06-02-22	
H VERMEULEN	SHEET :	110-1
GRASS VALLEY NEDERLAND B.V. - BREDA		

1

2

3

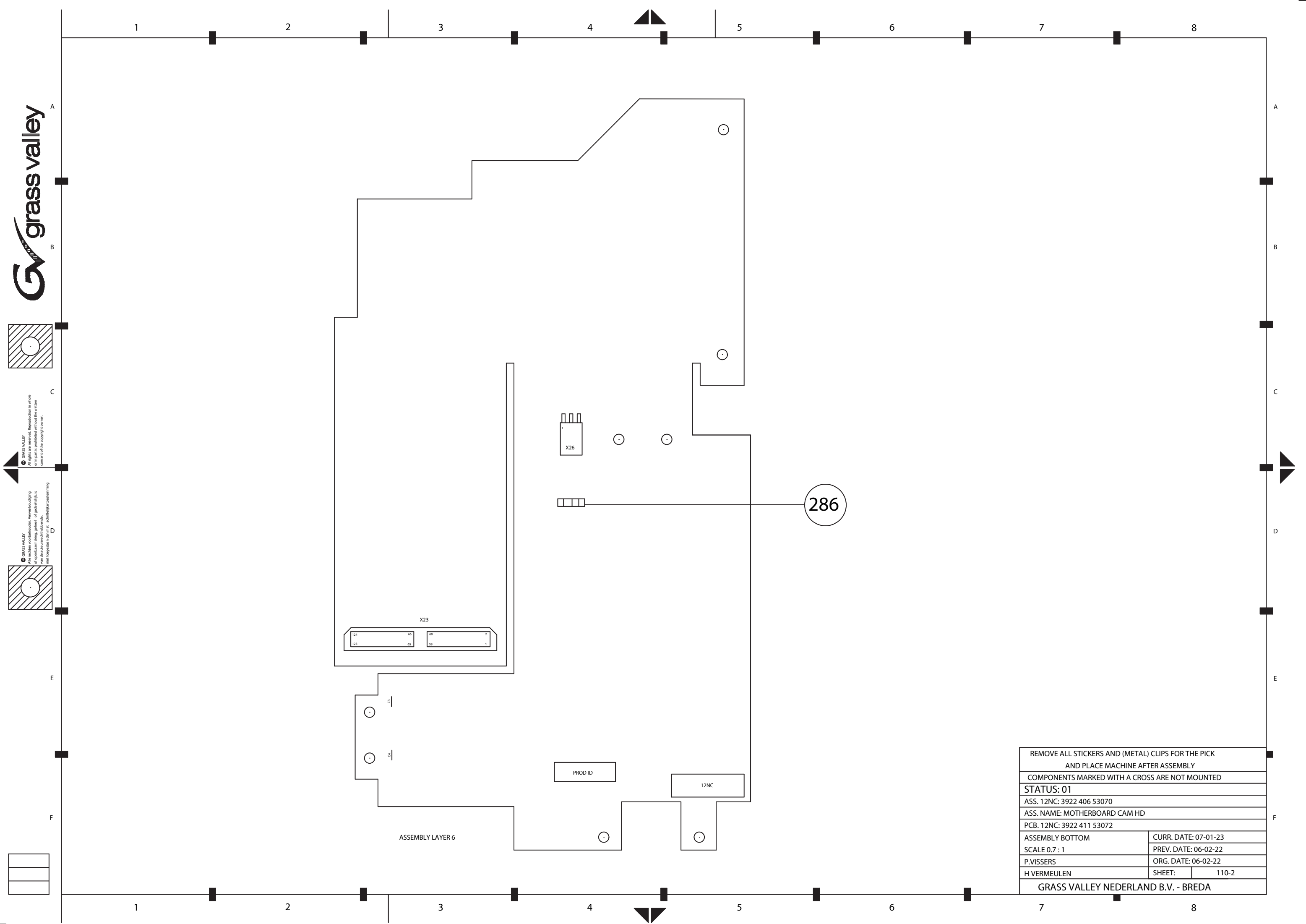
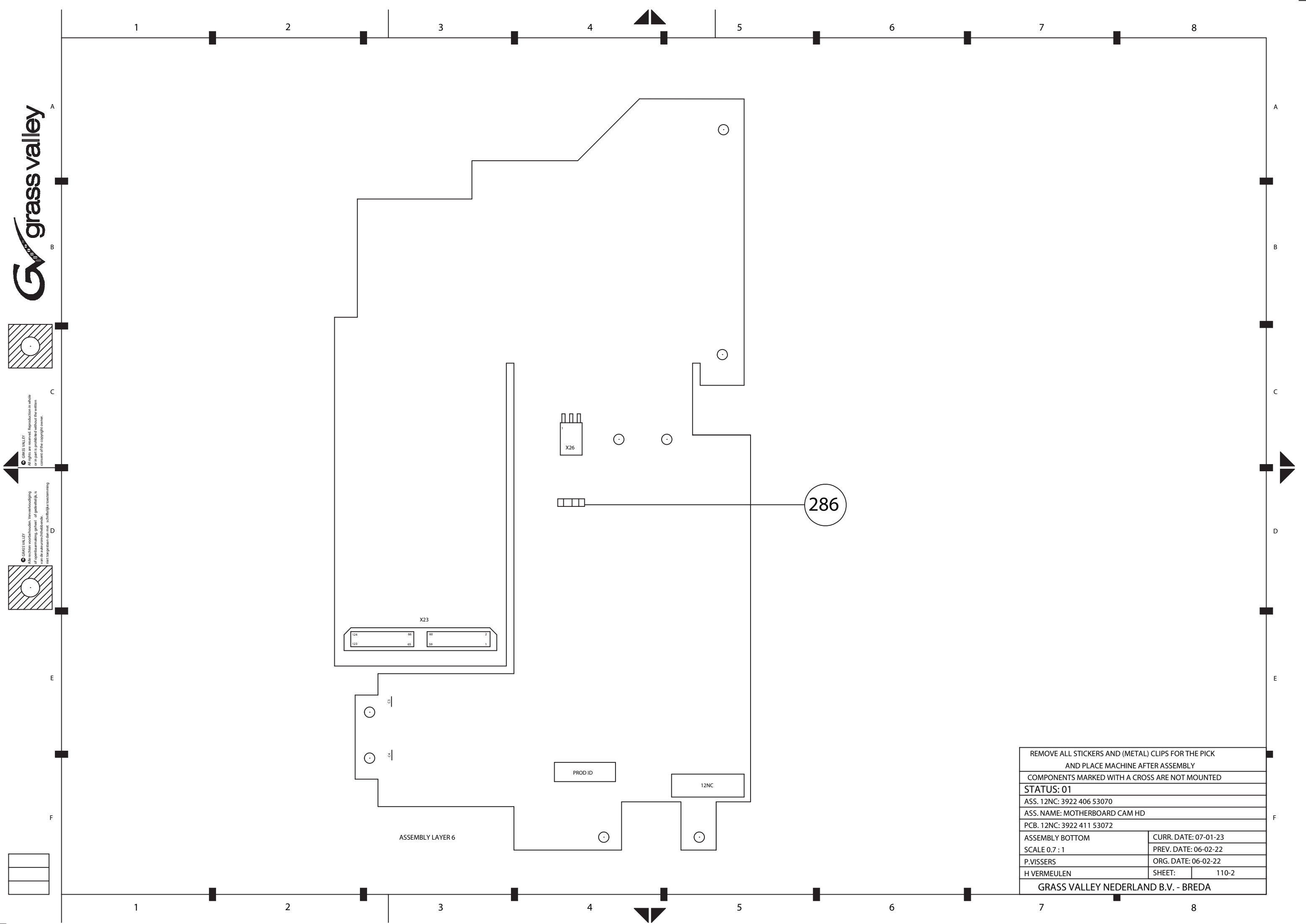
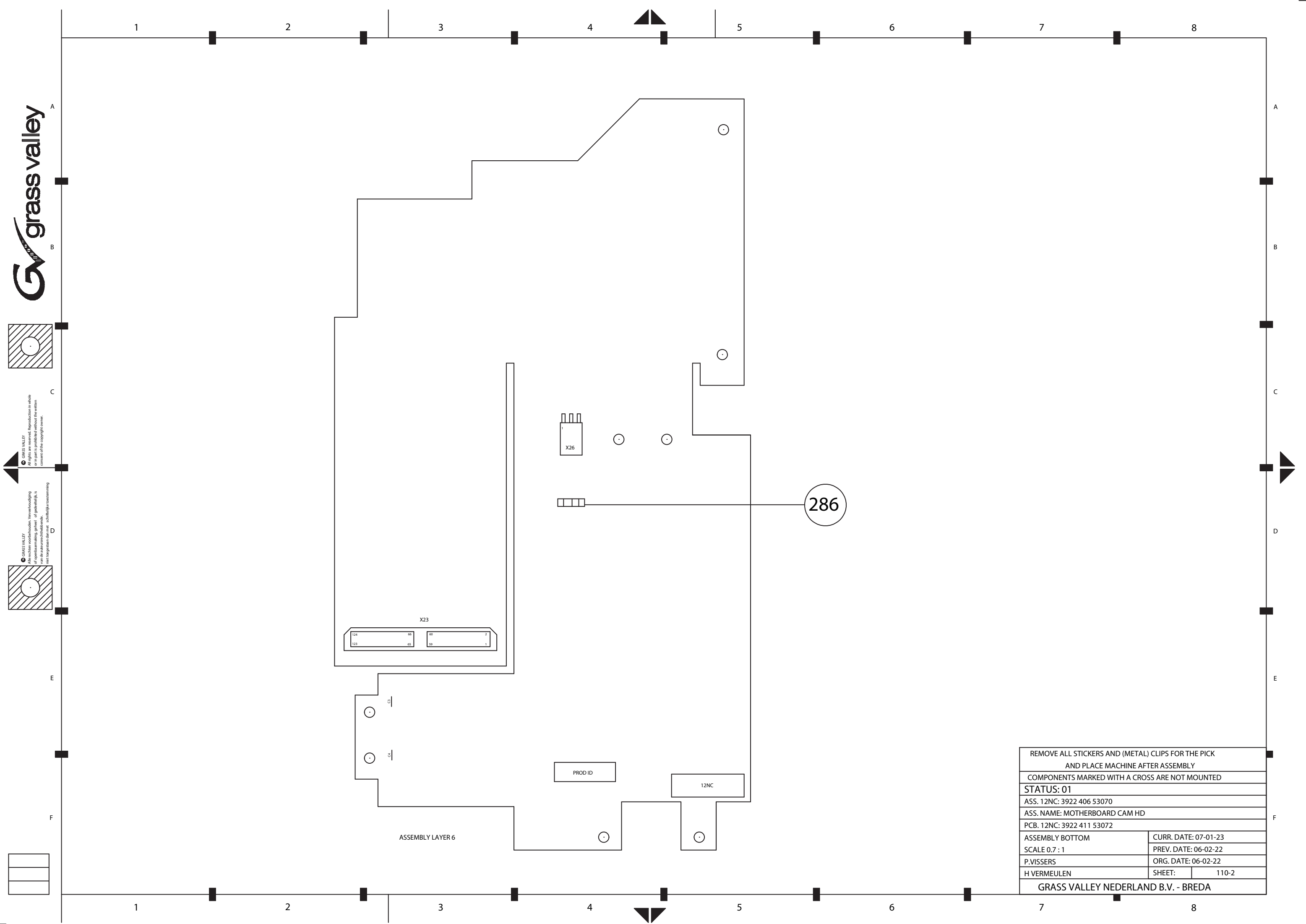
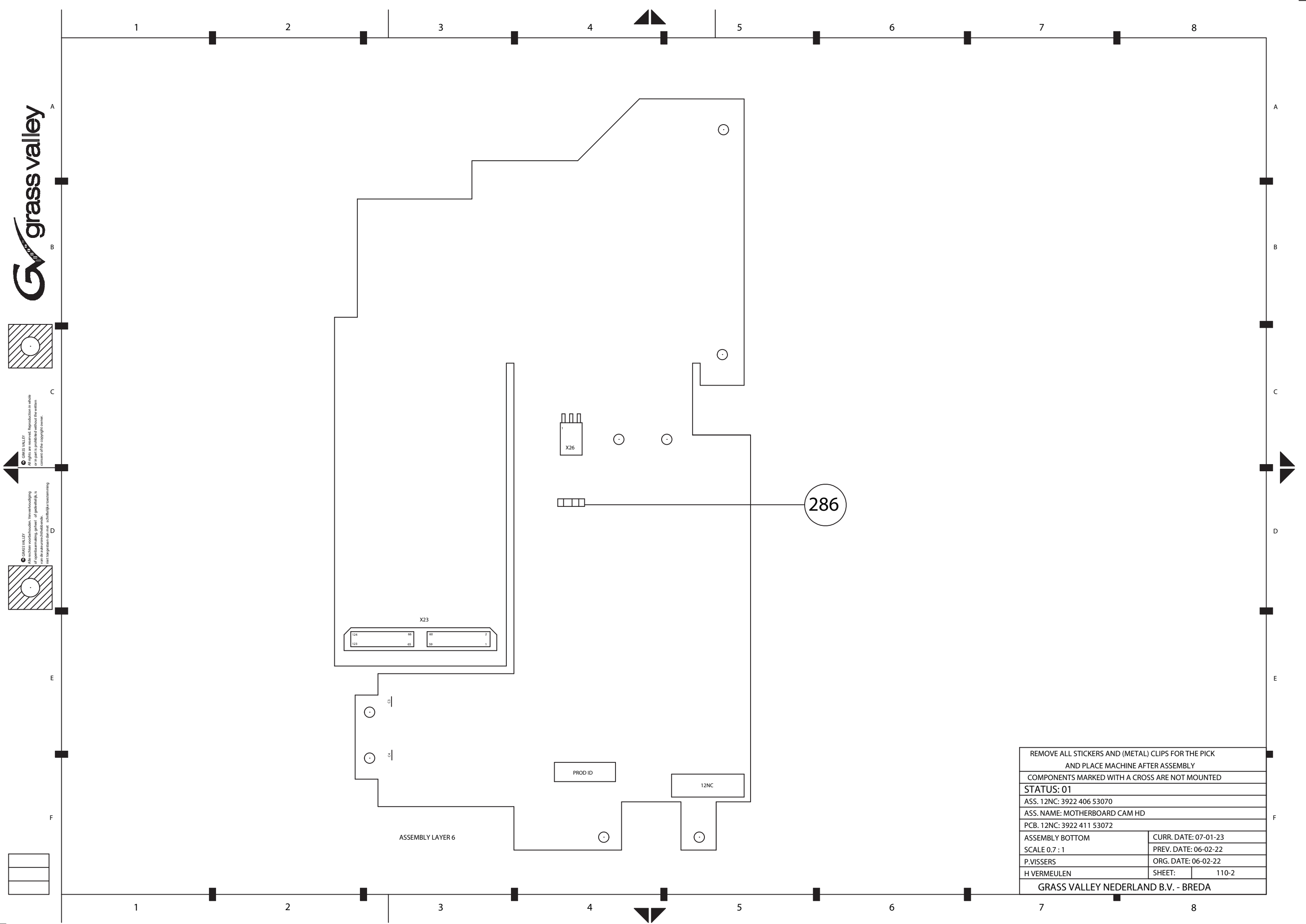
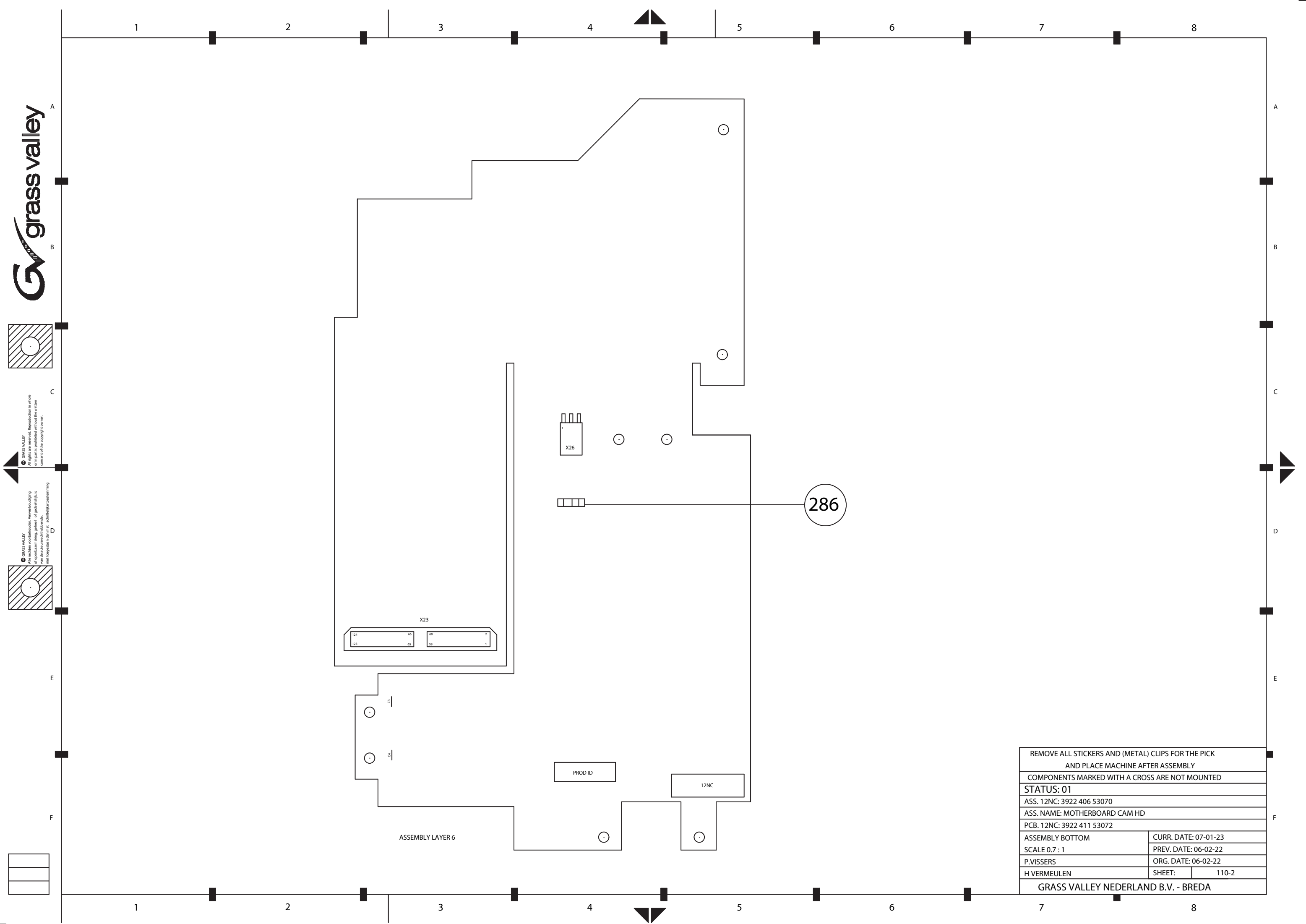
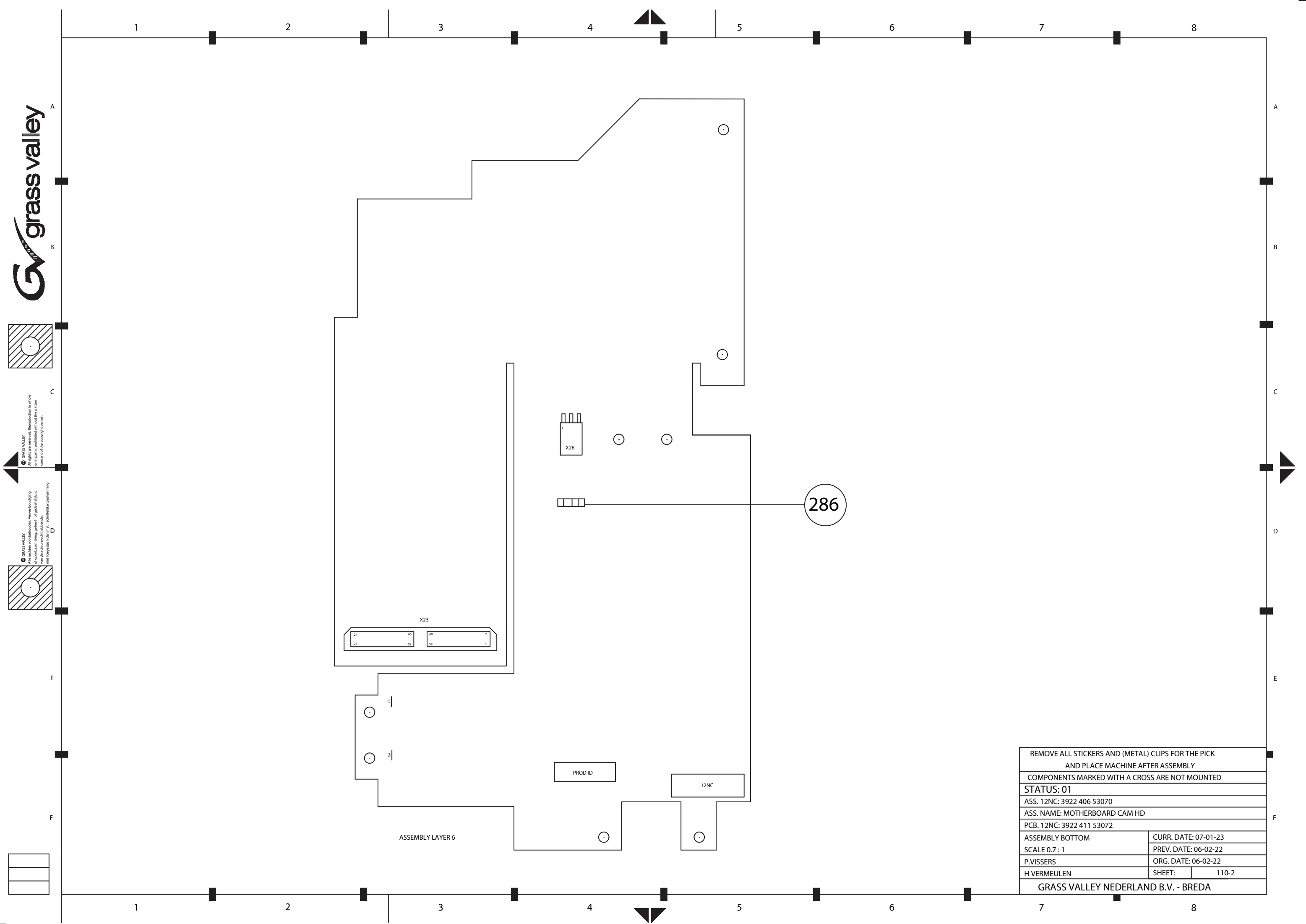
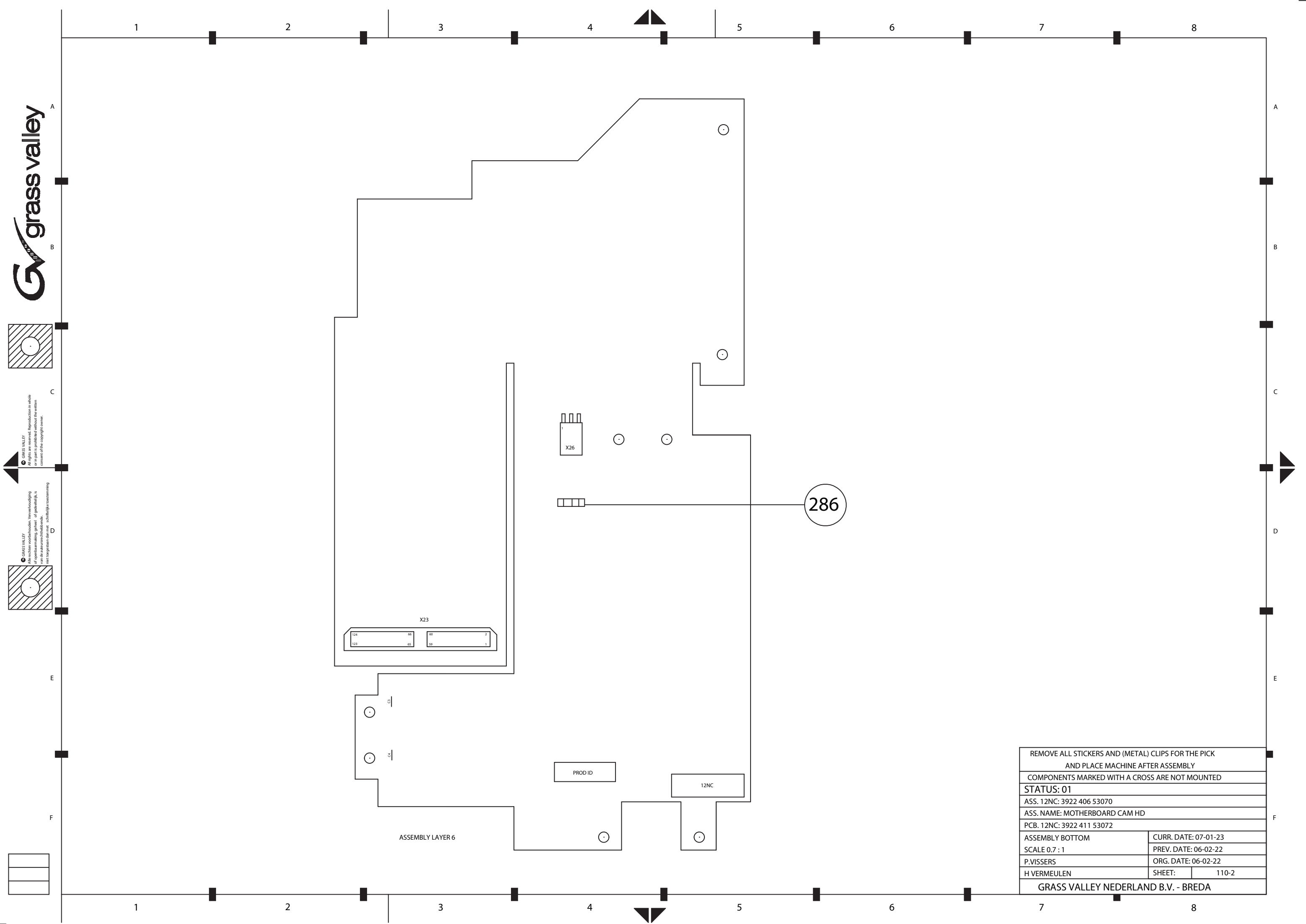
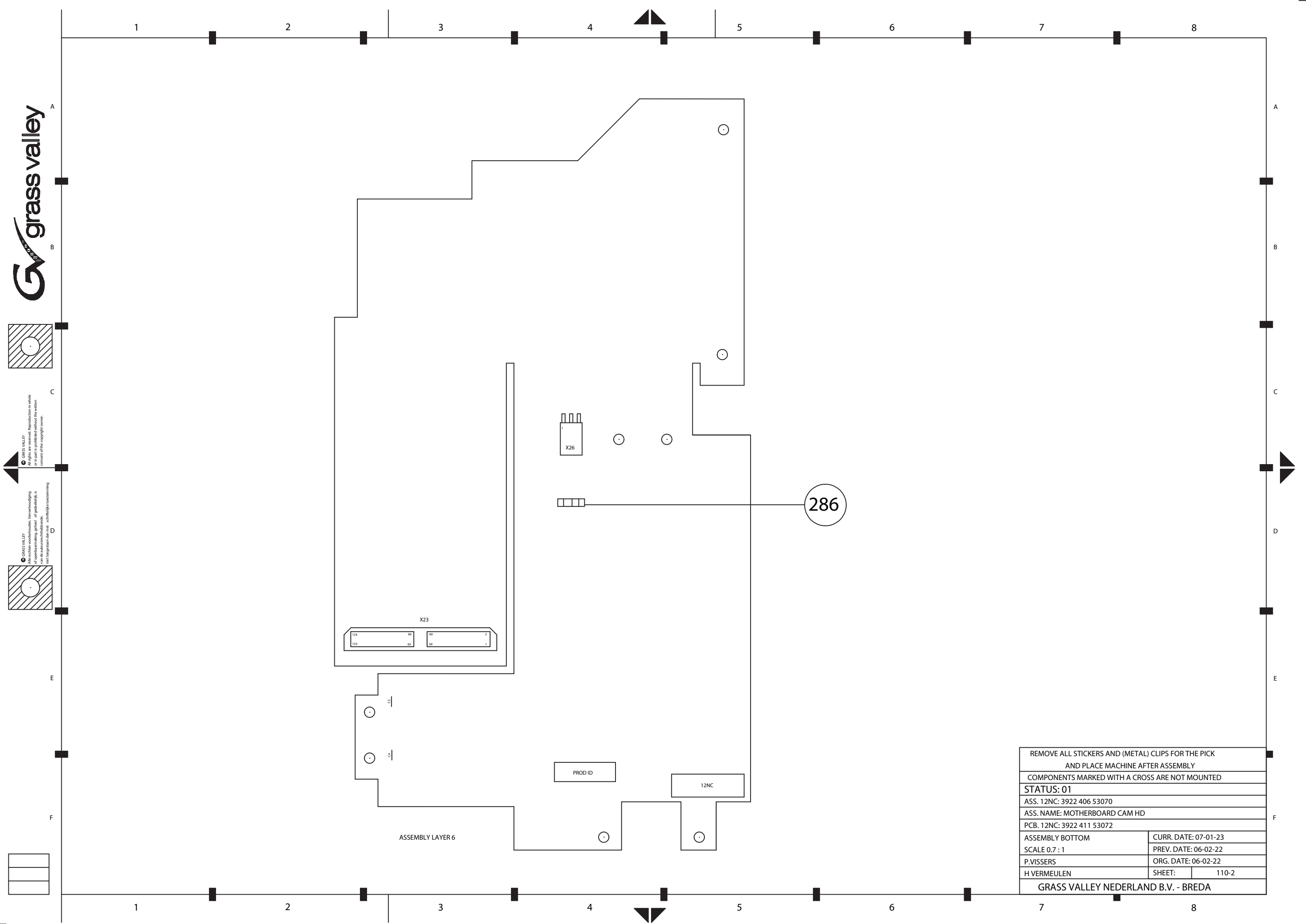
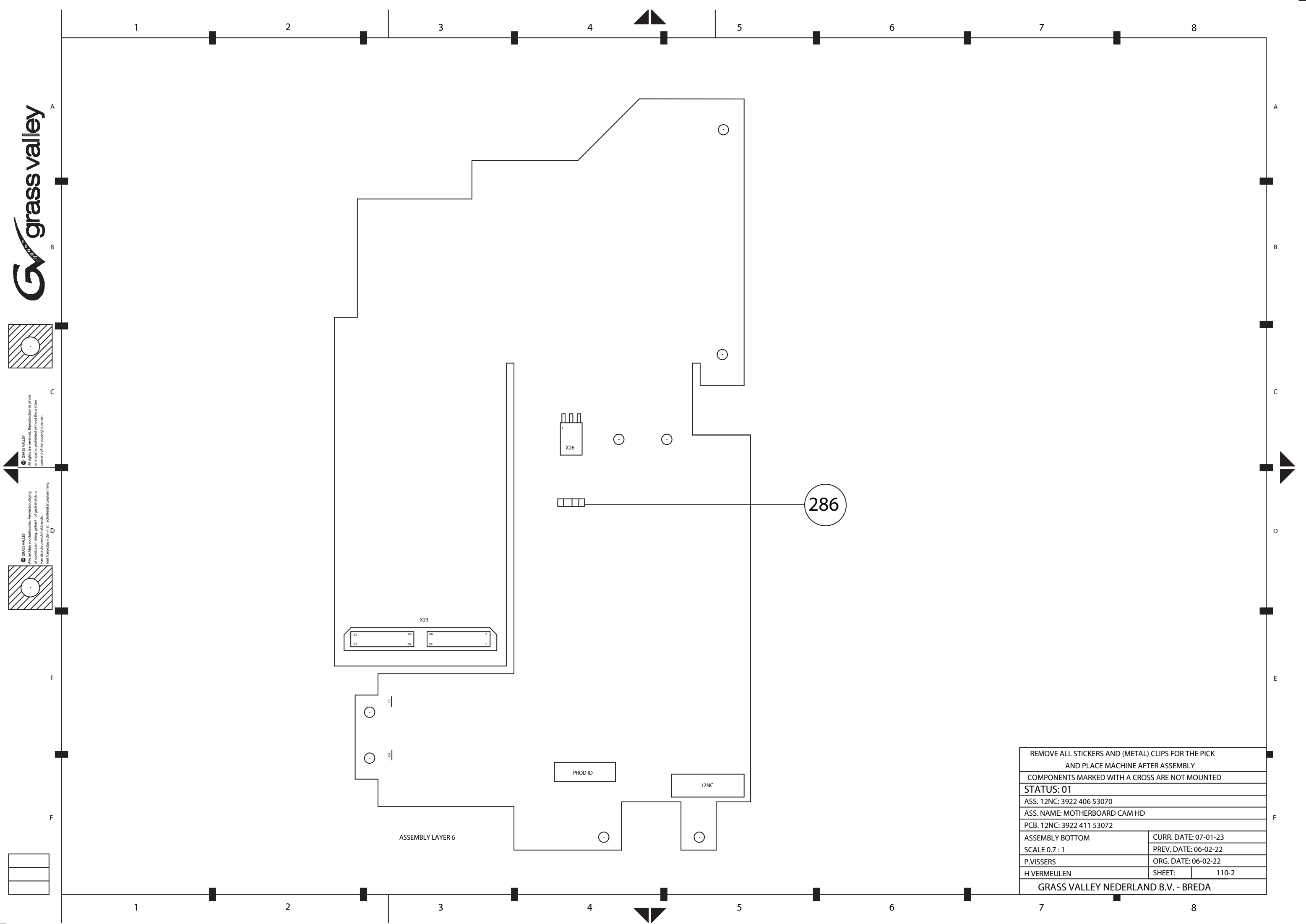
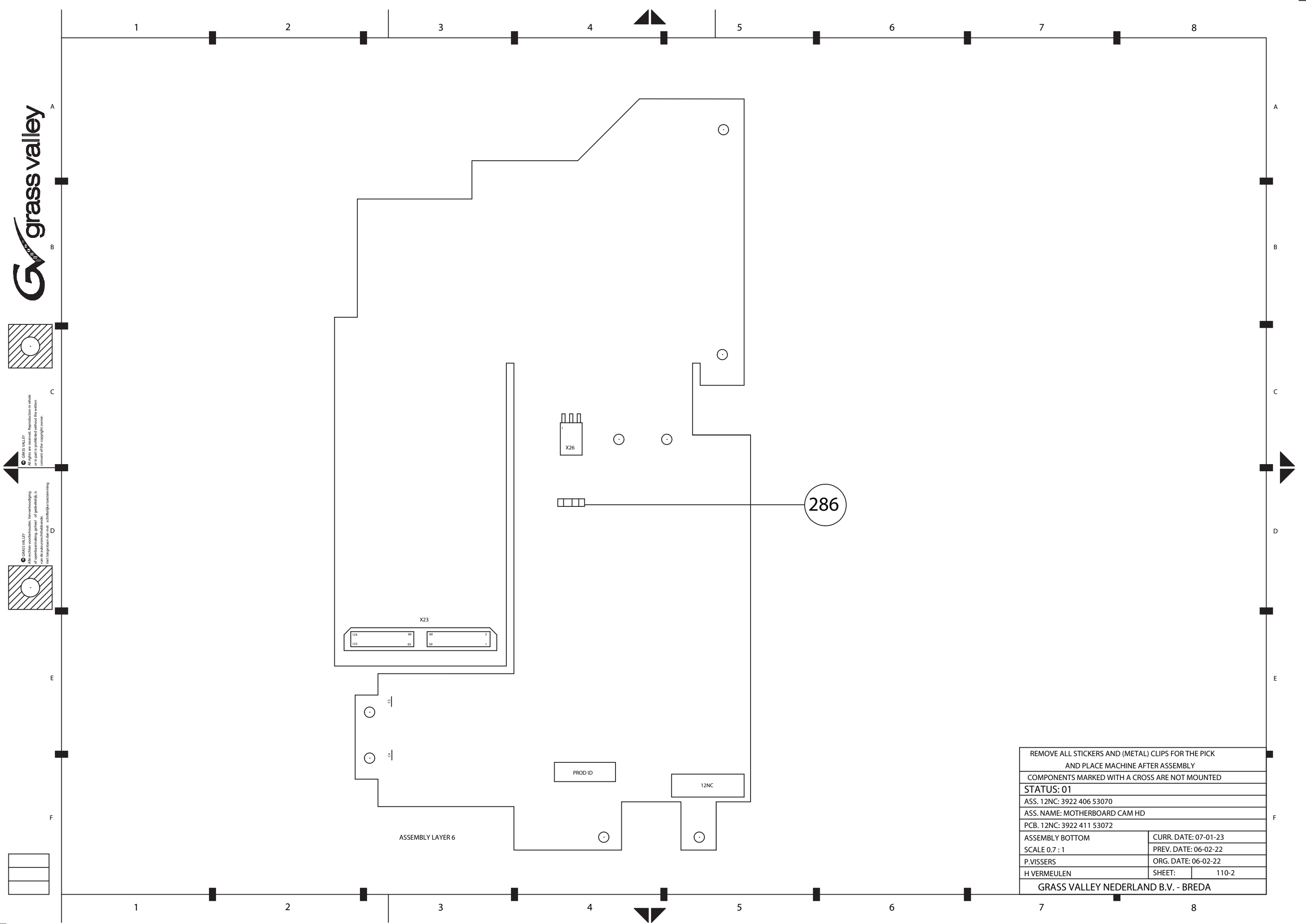
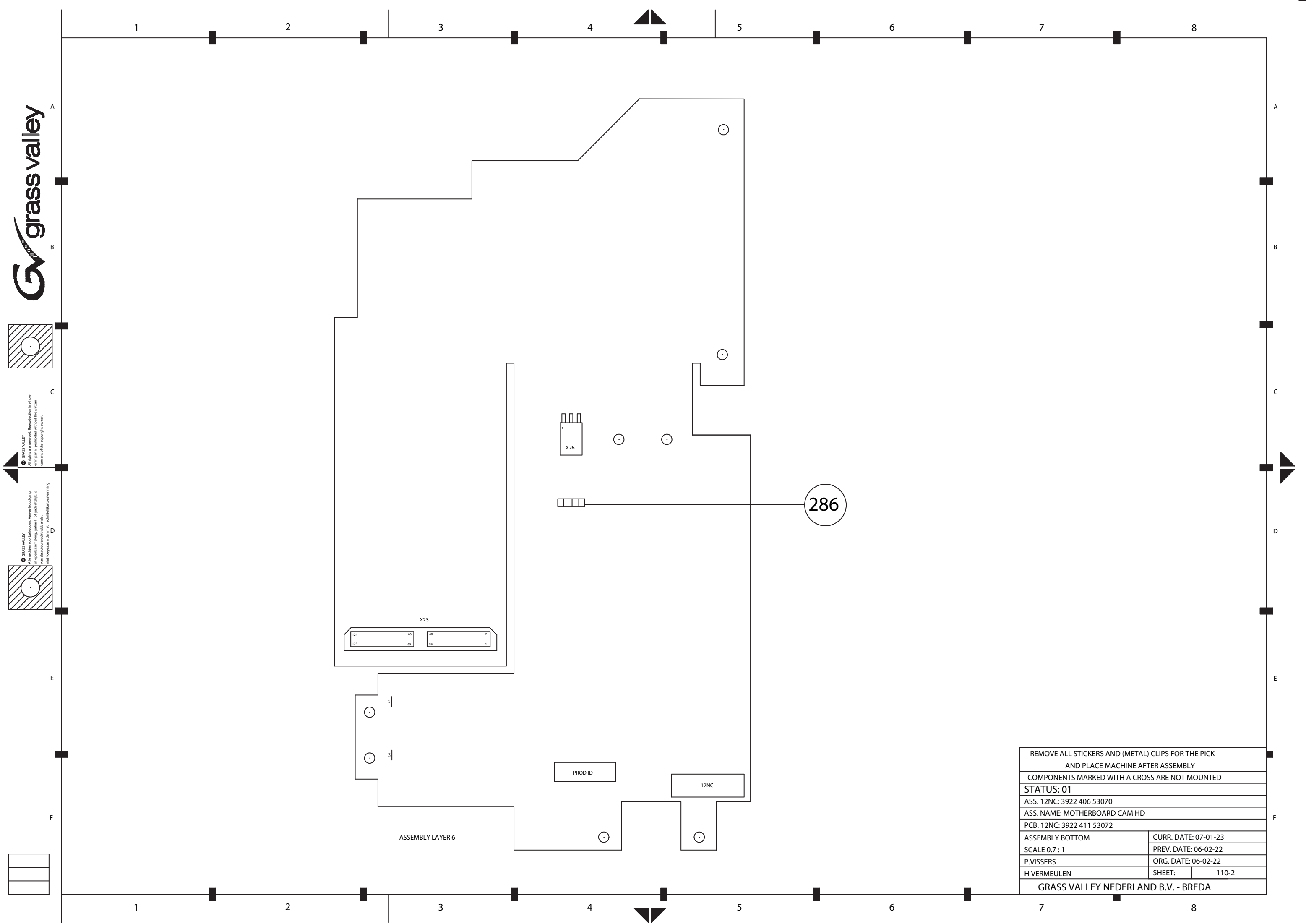
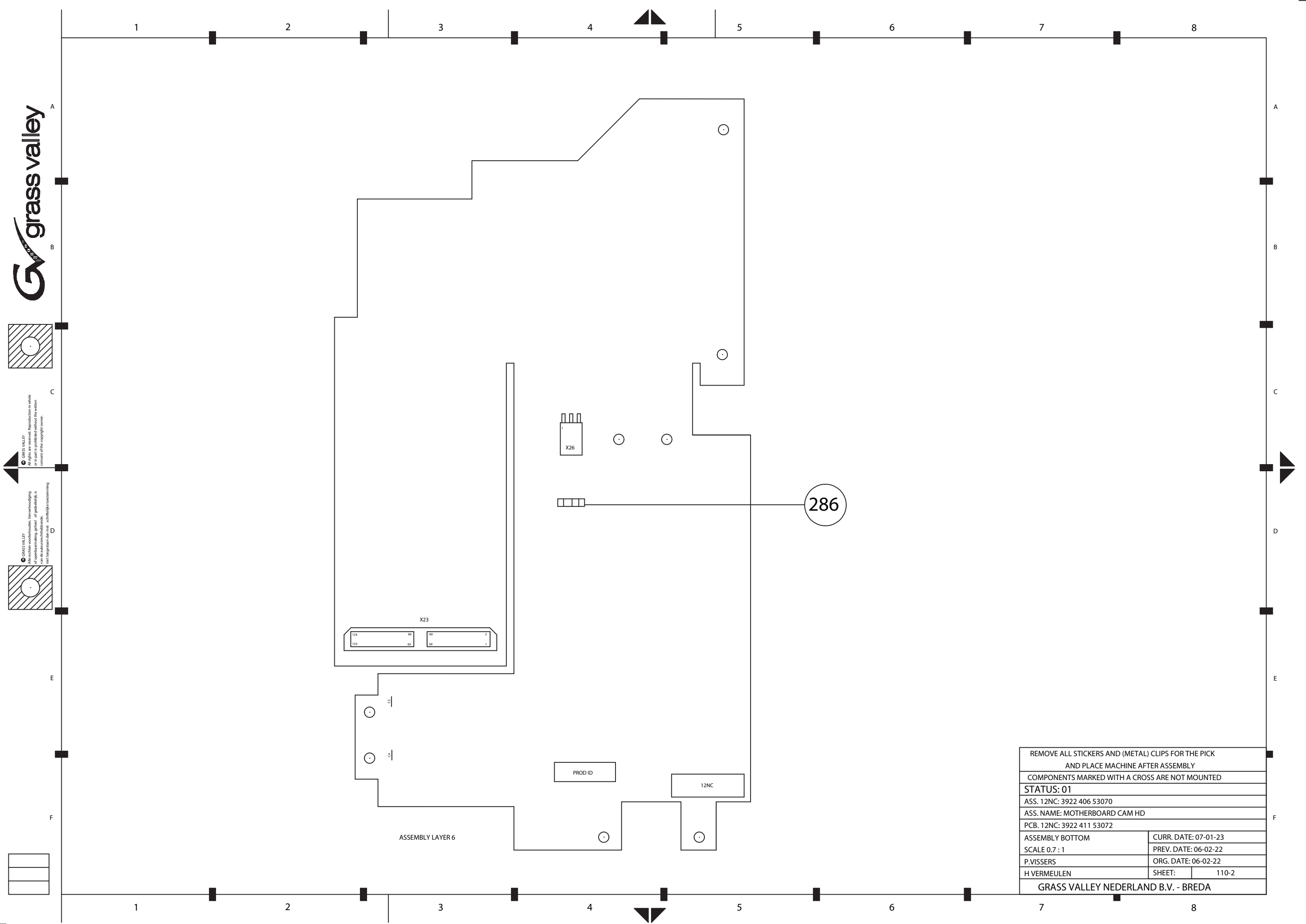
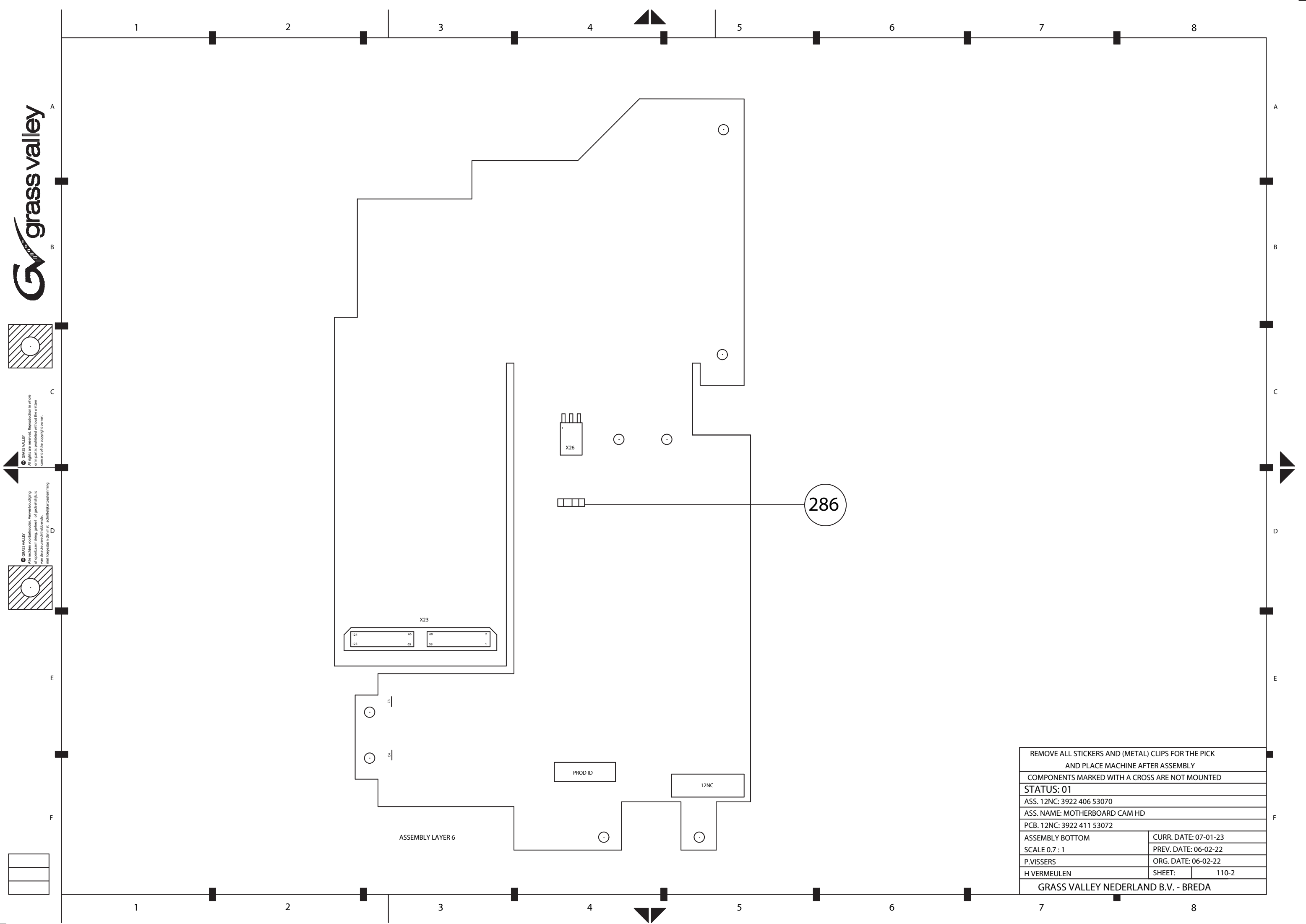
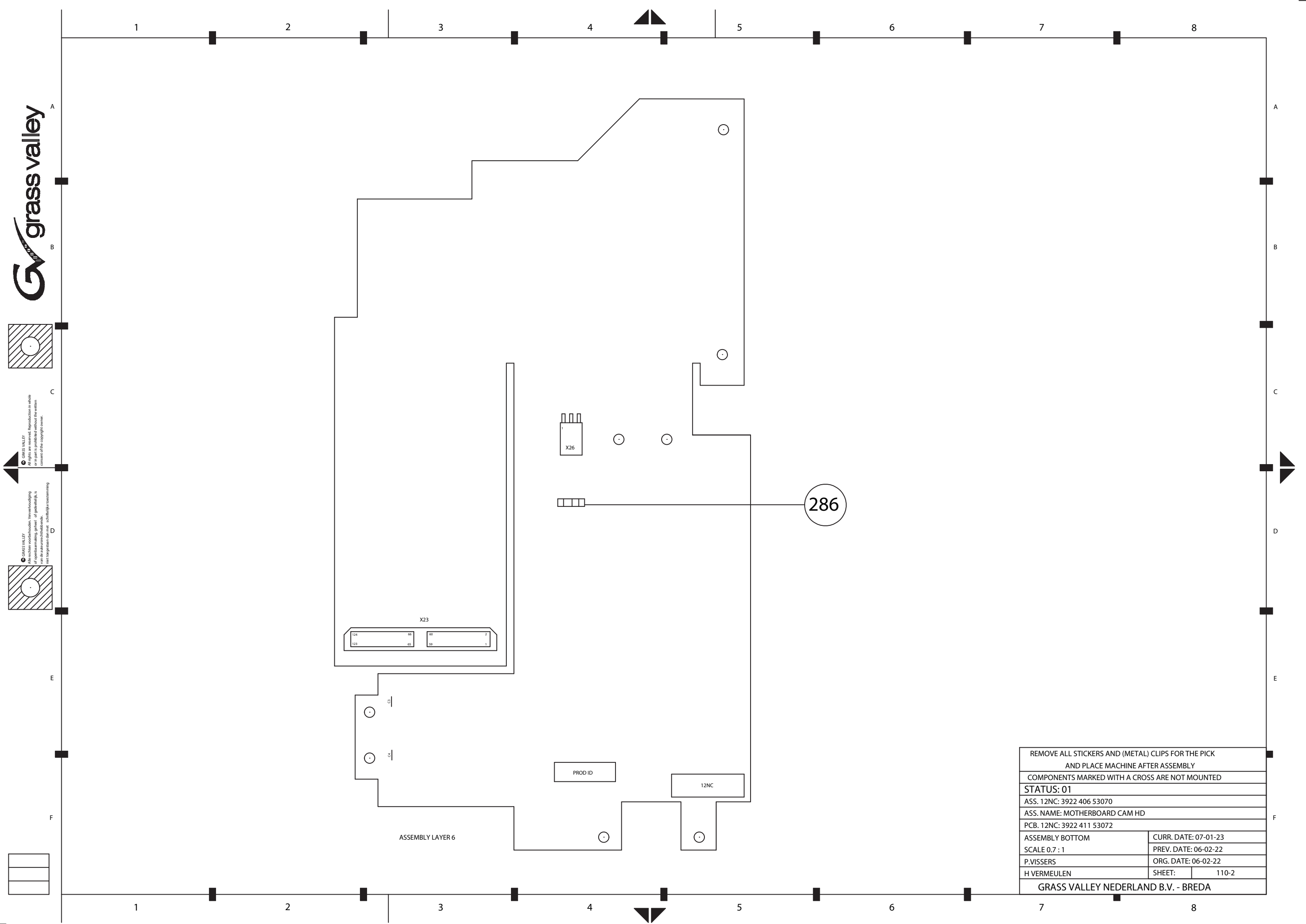
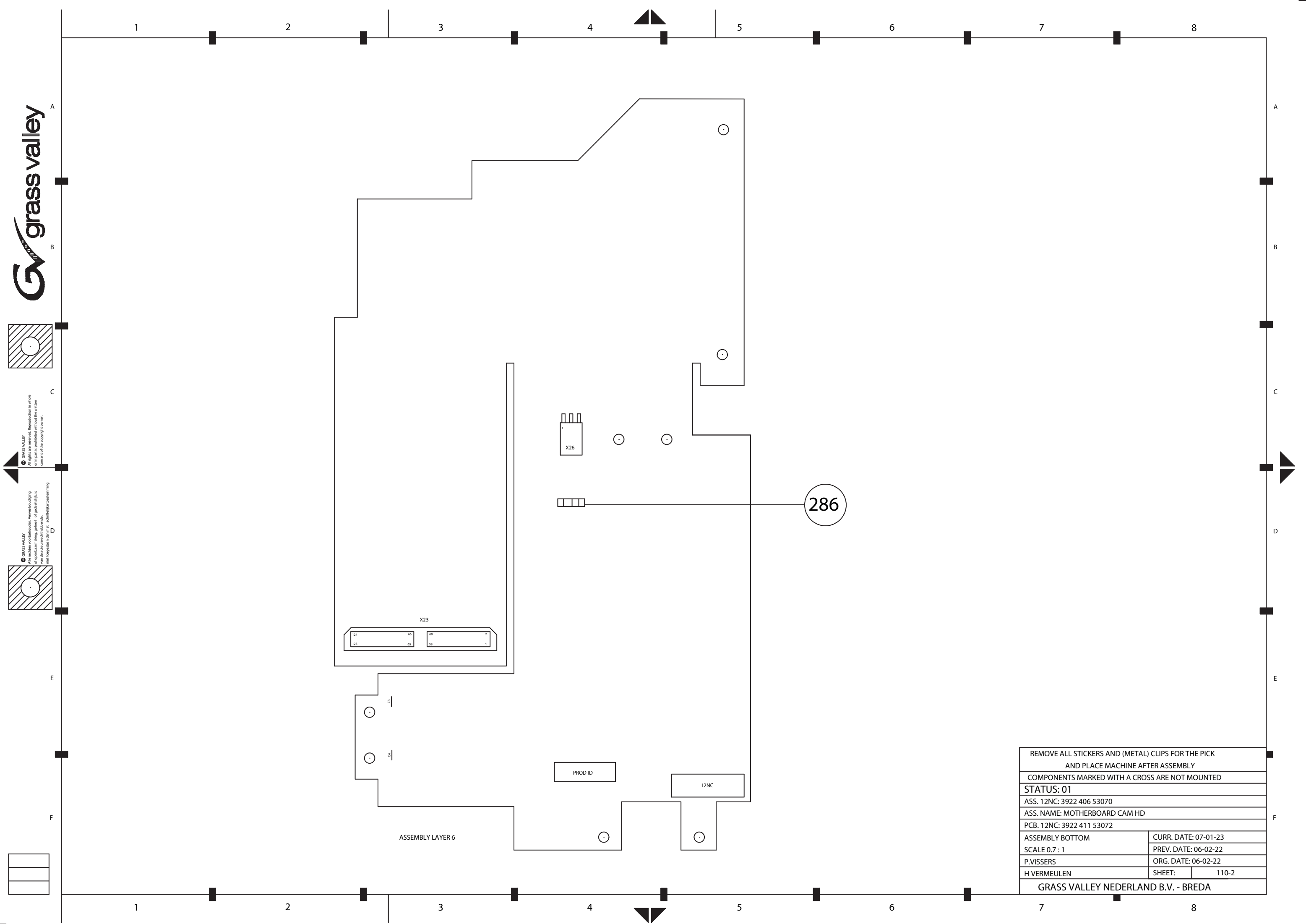
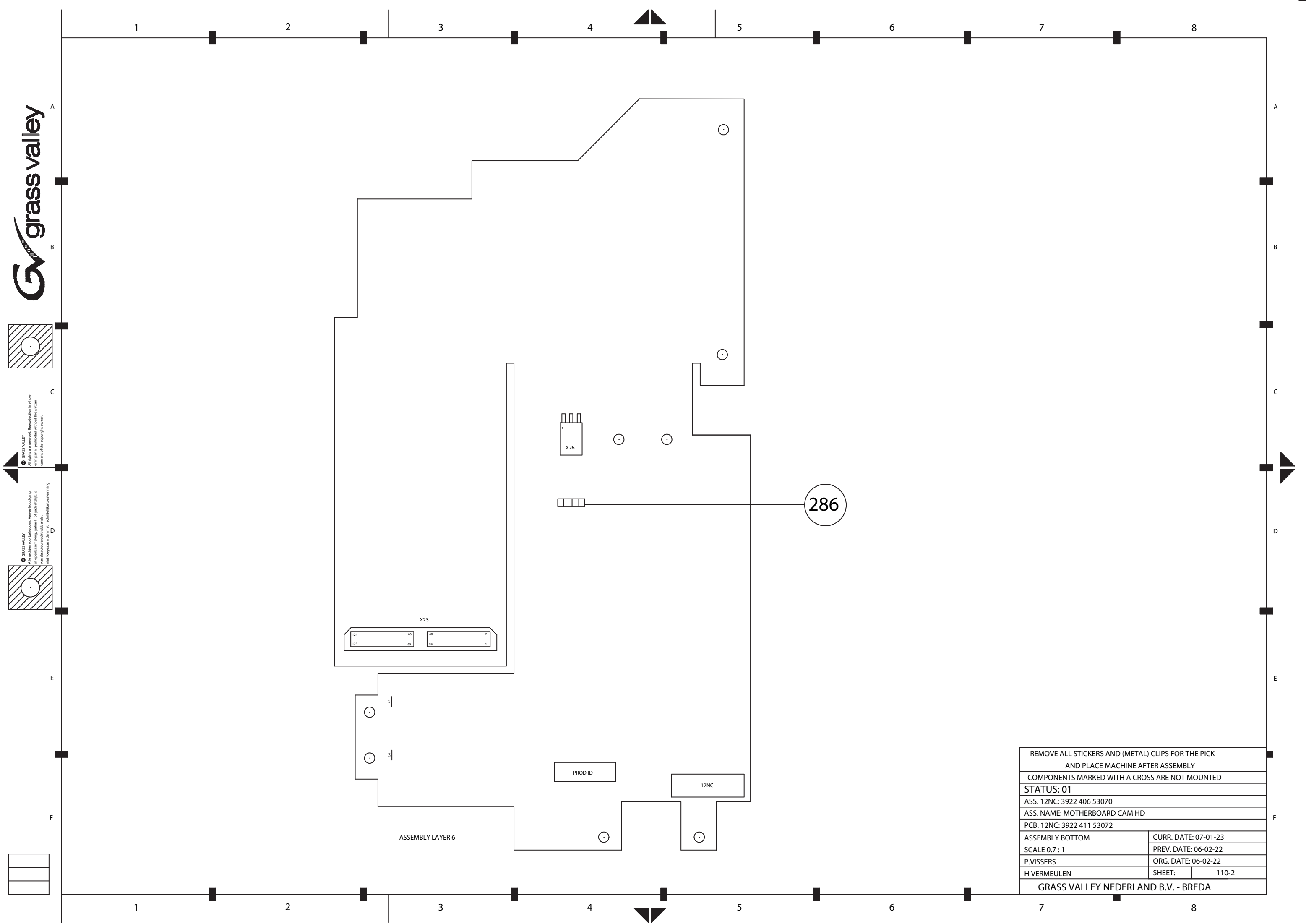
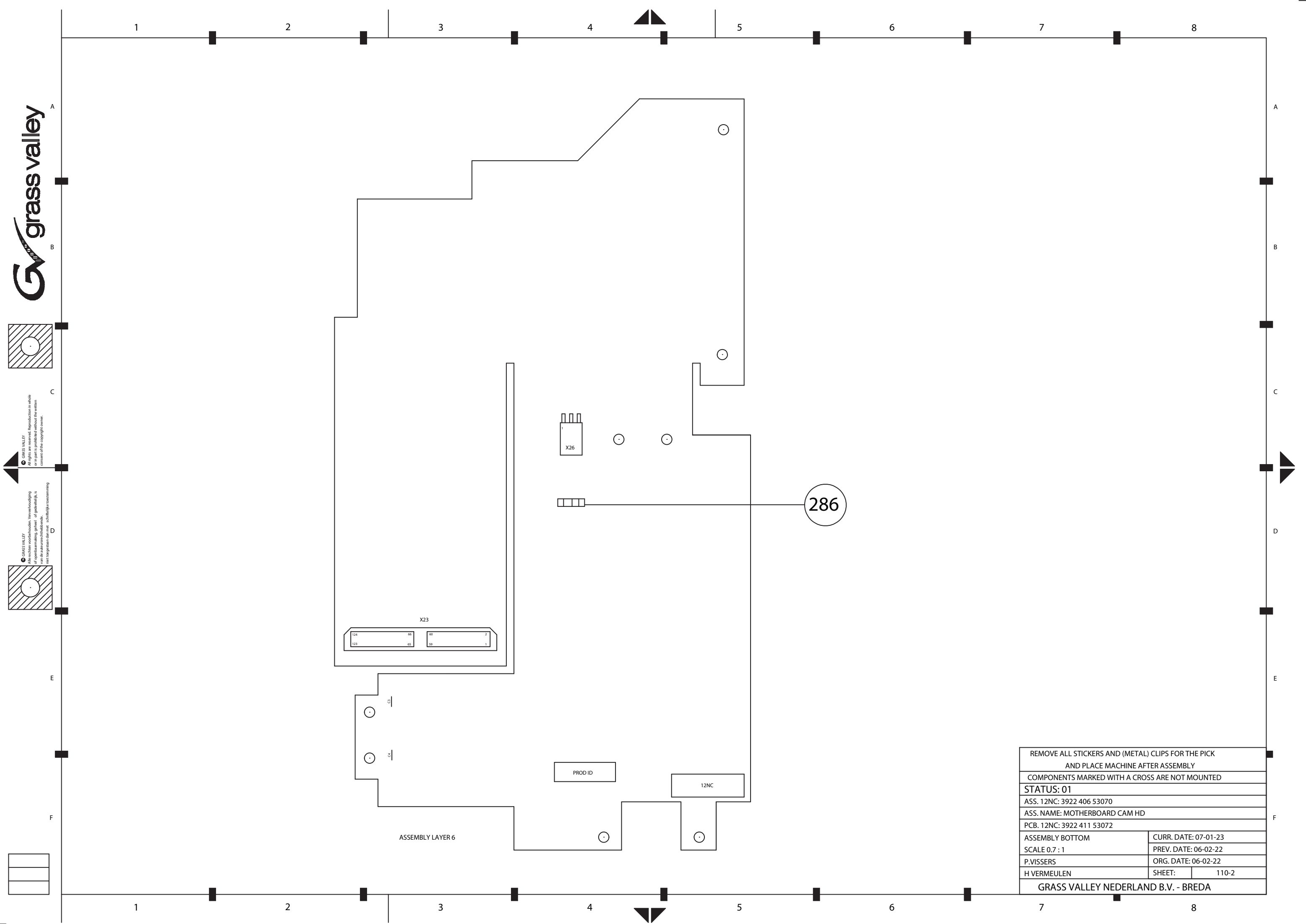
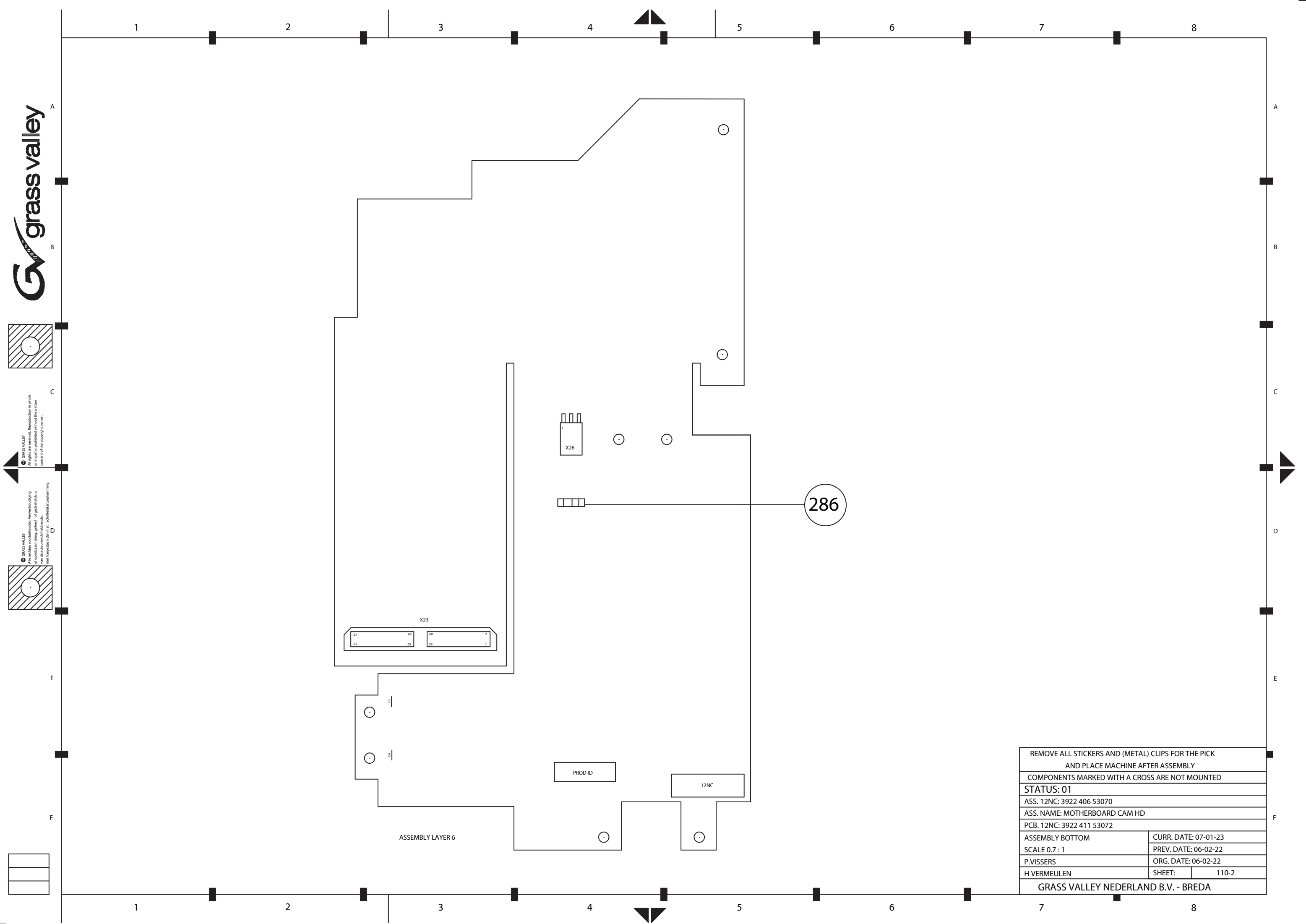
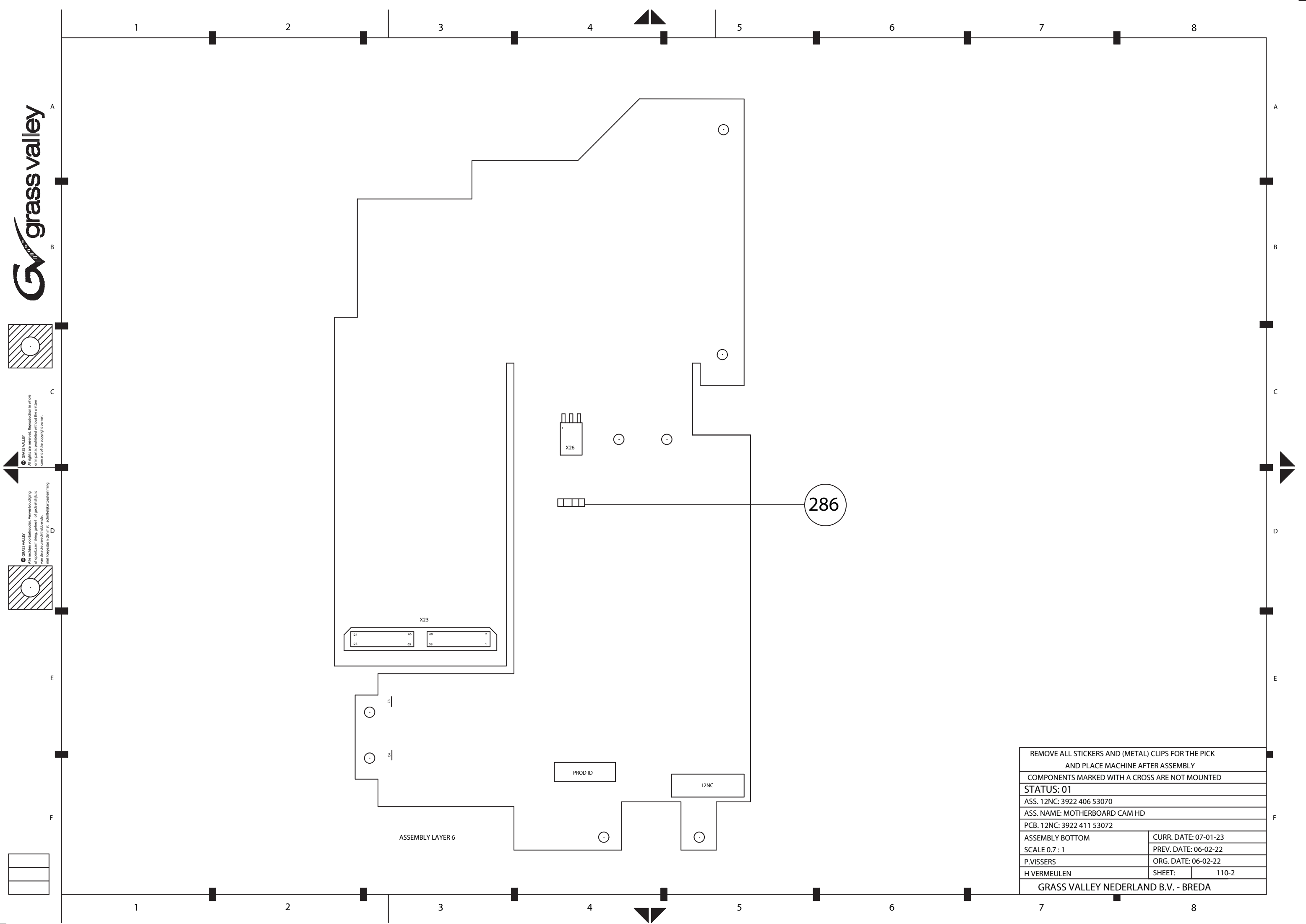
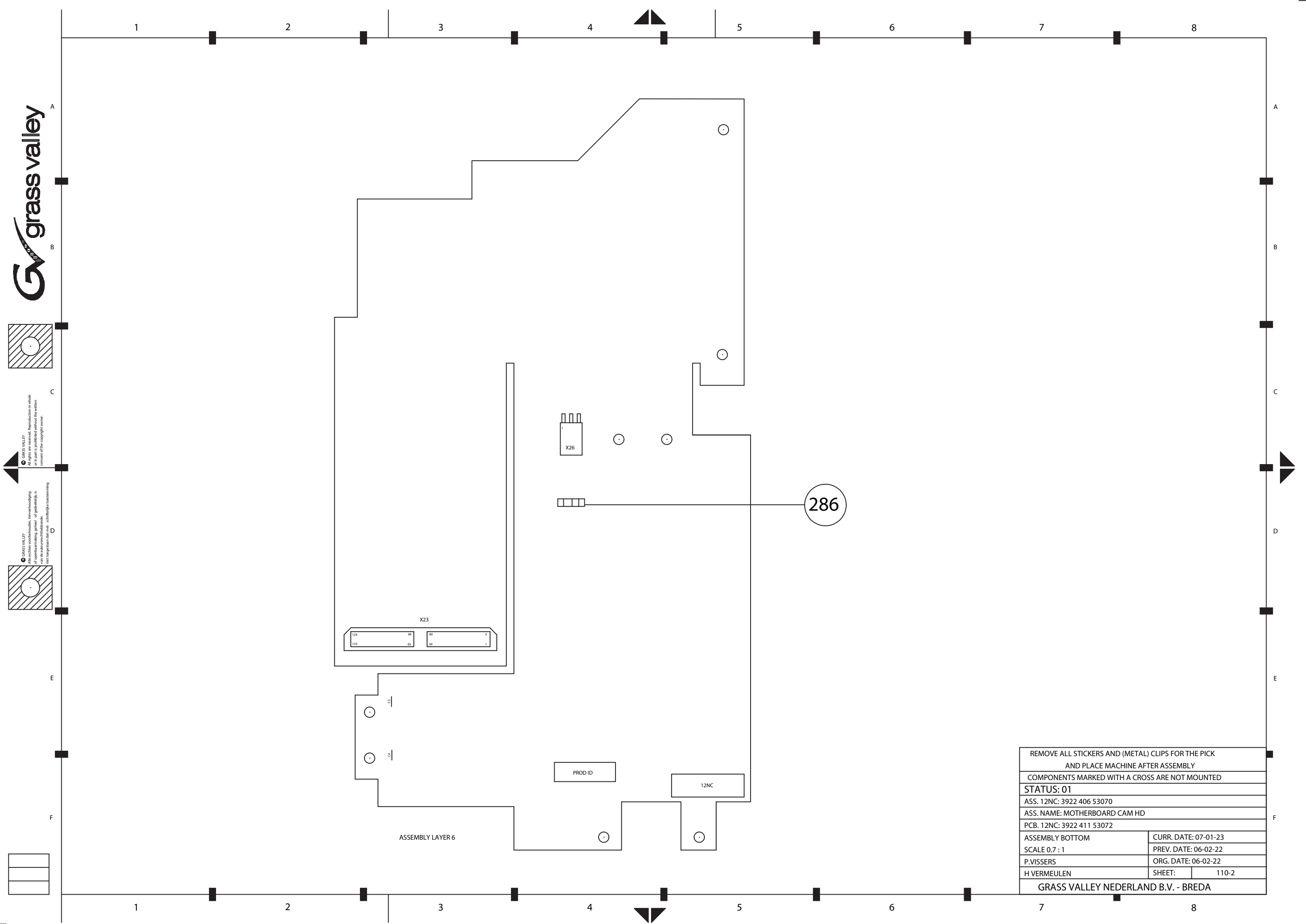
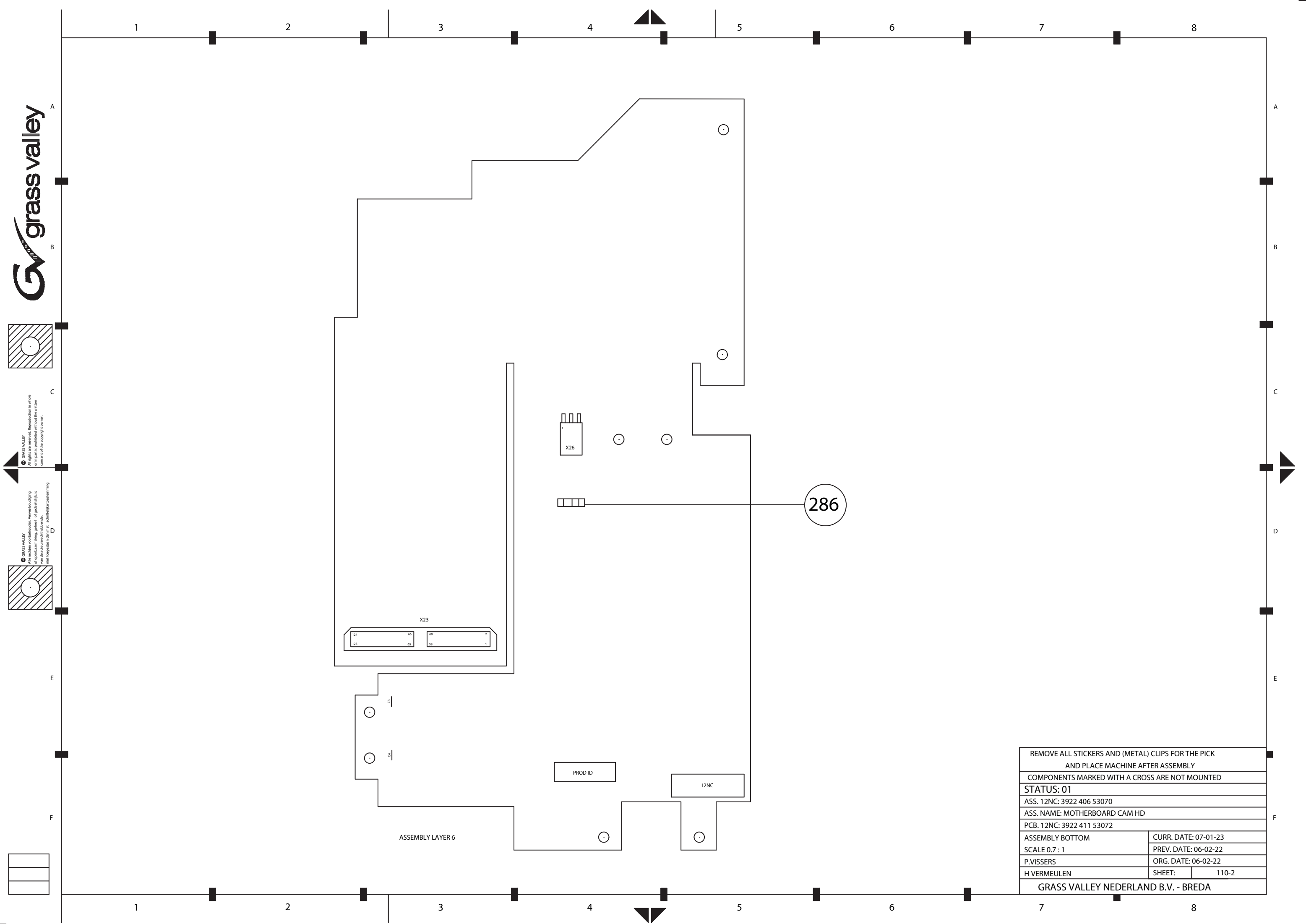
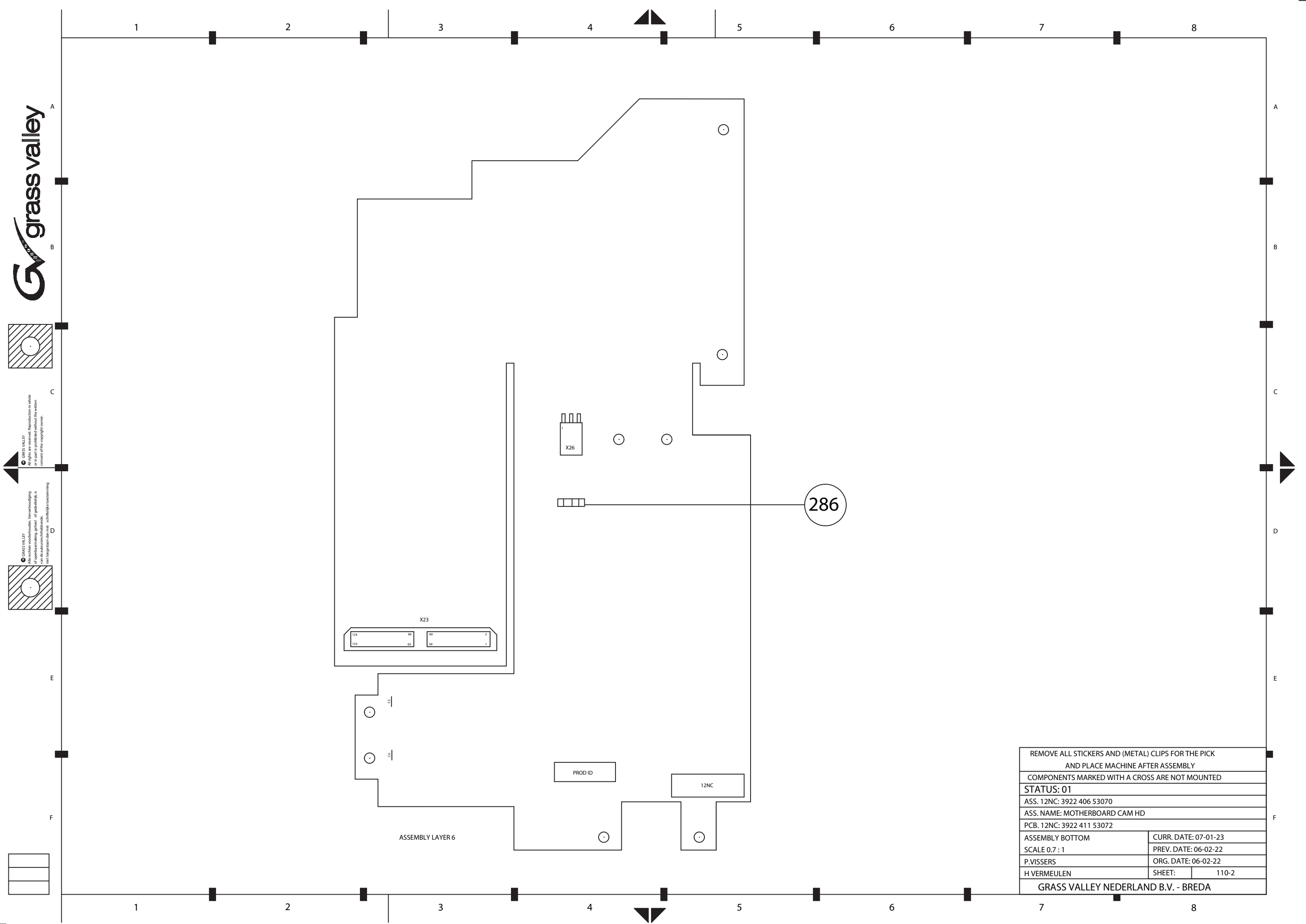
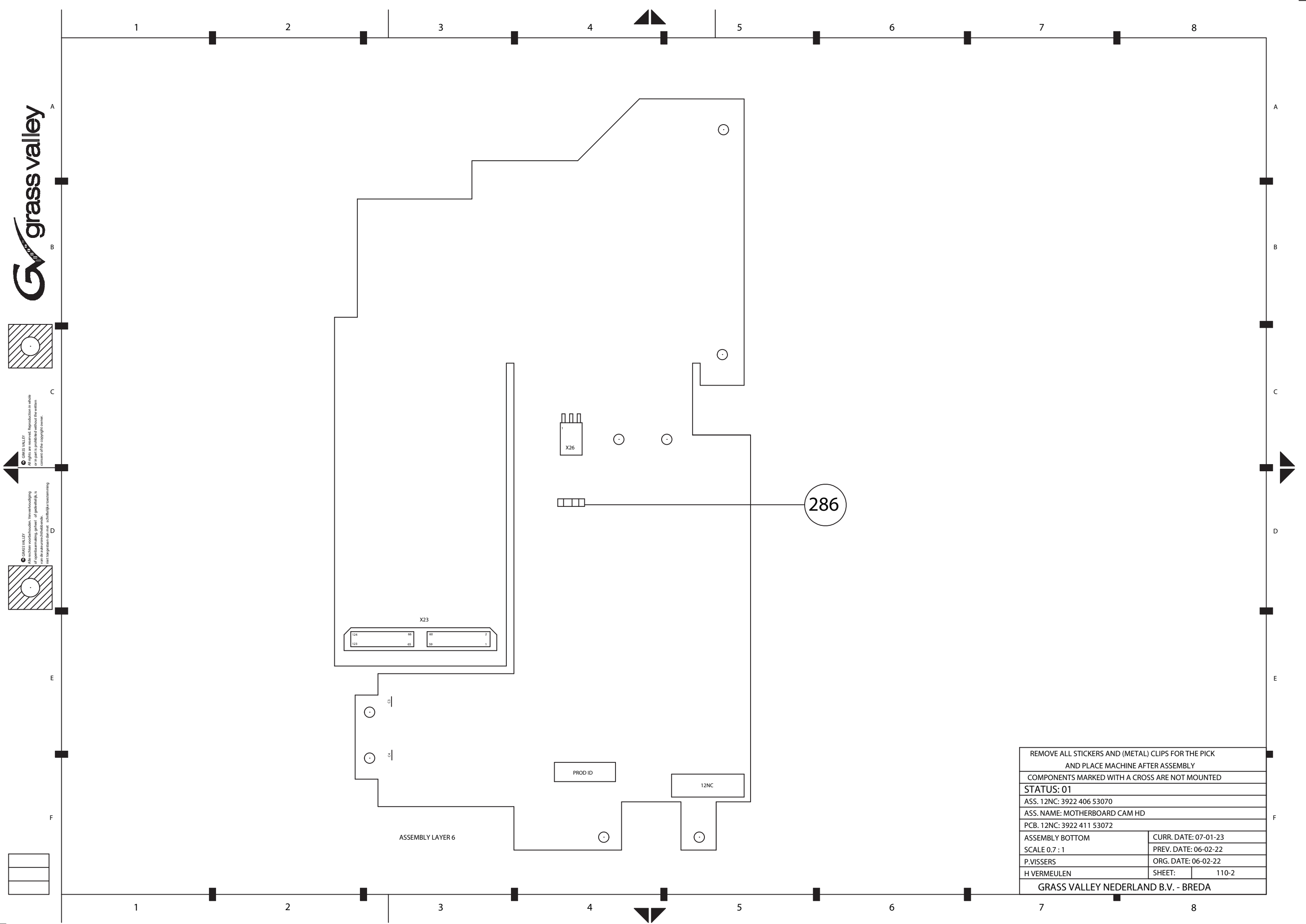
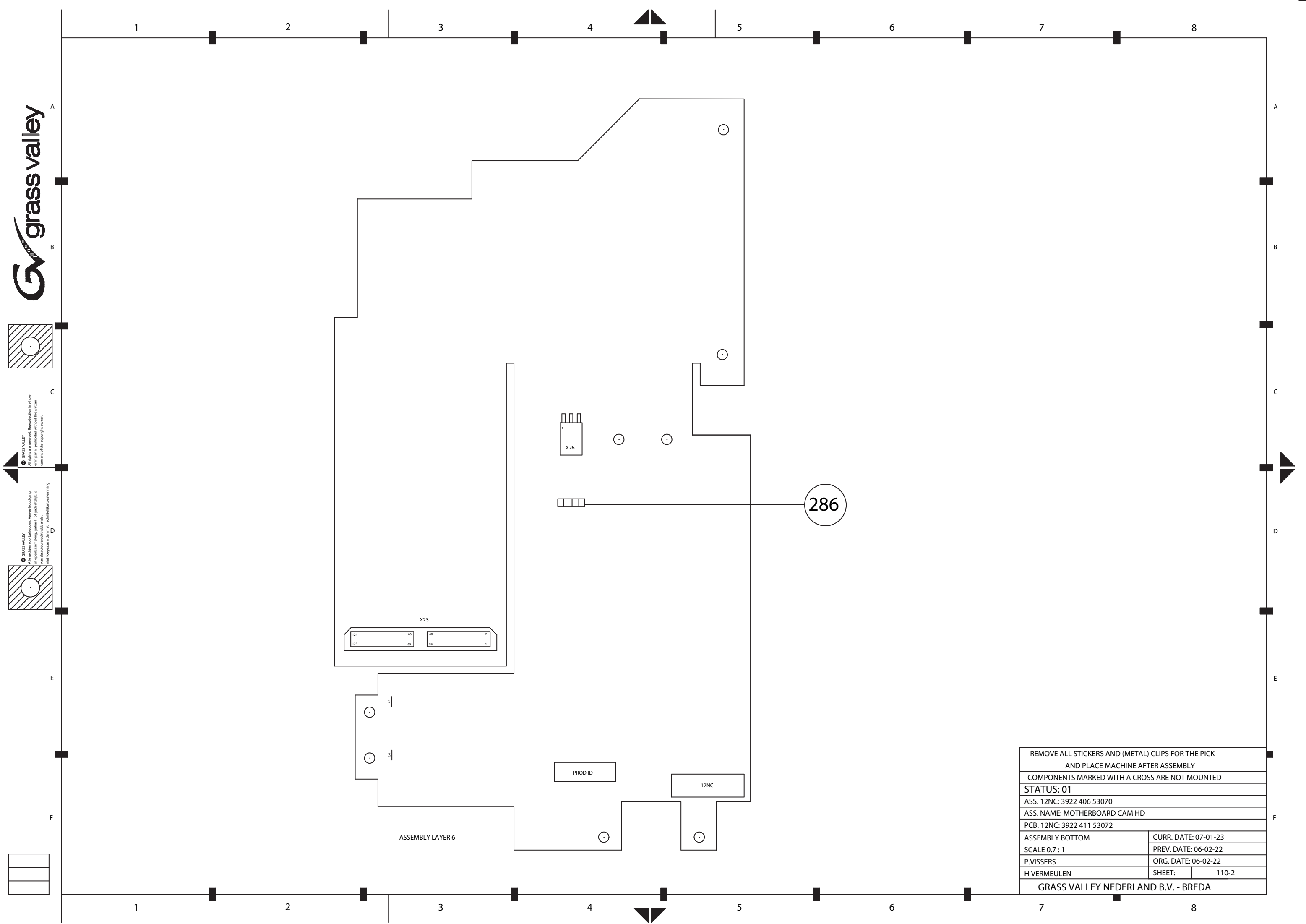
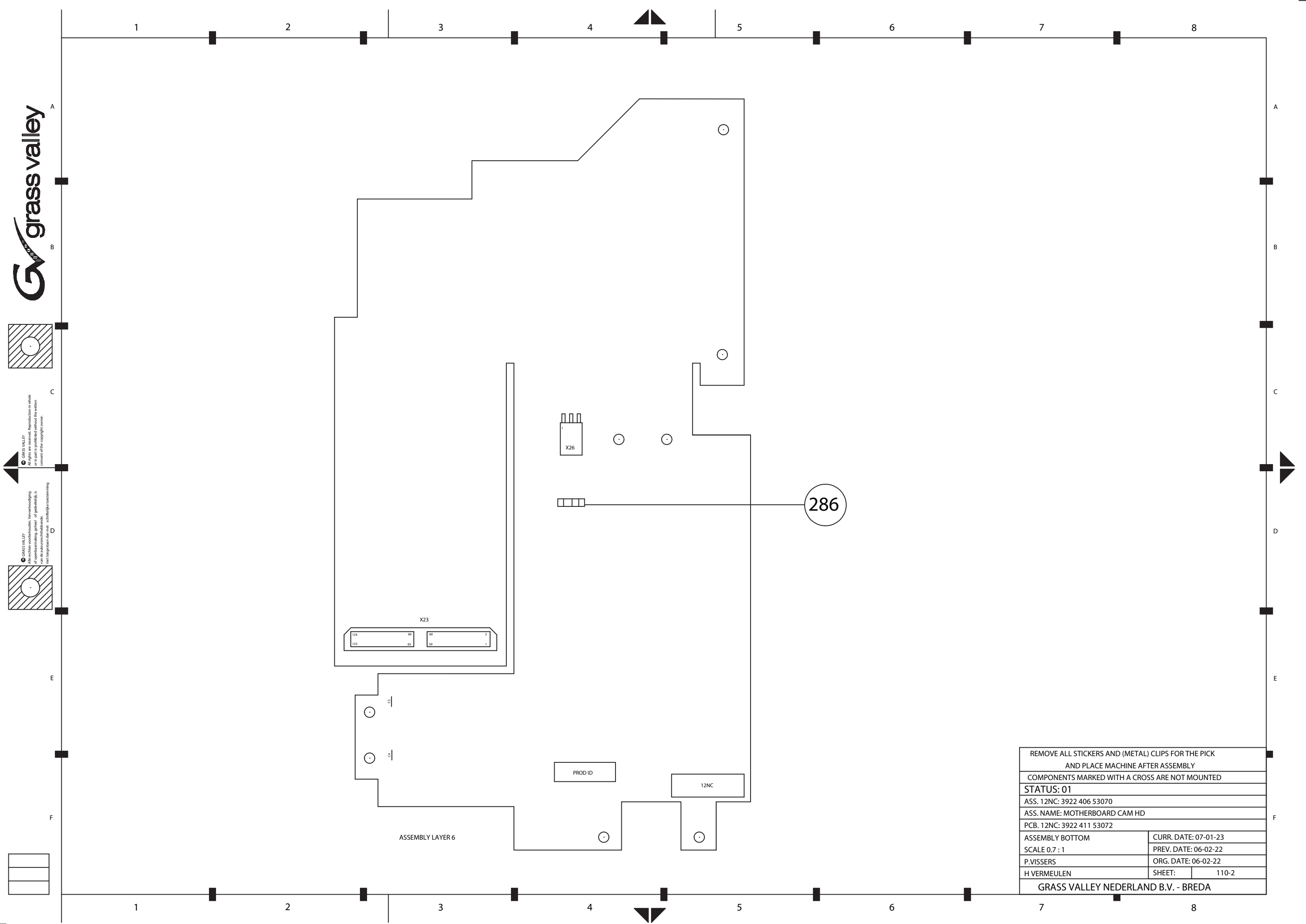
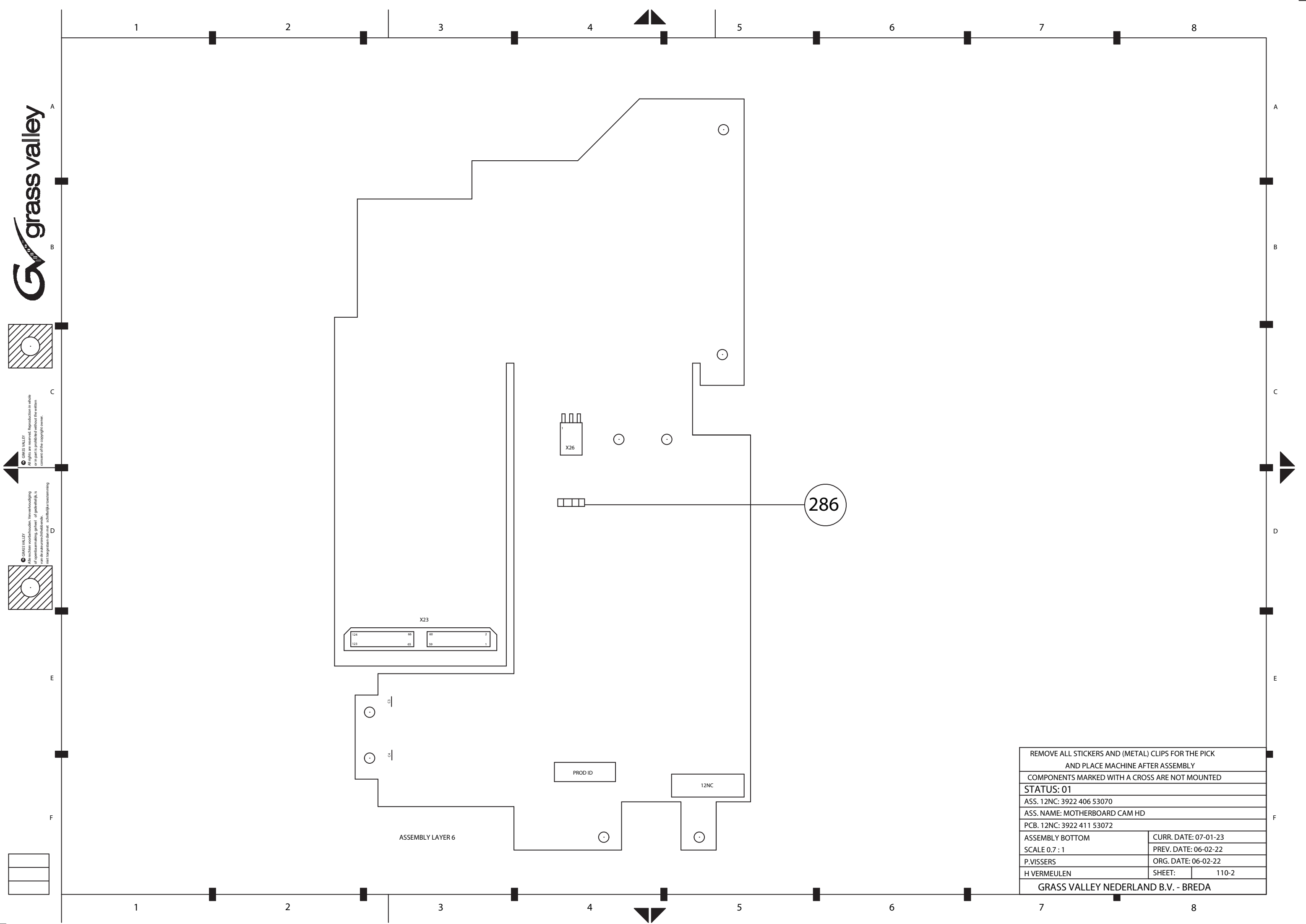
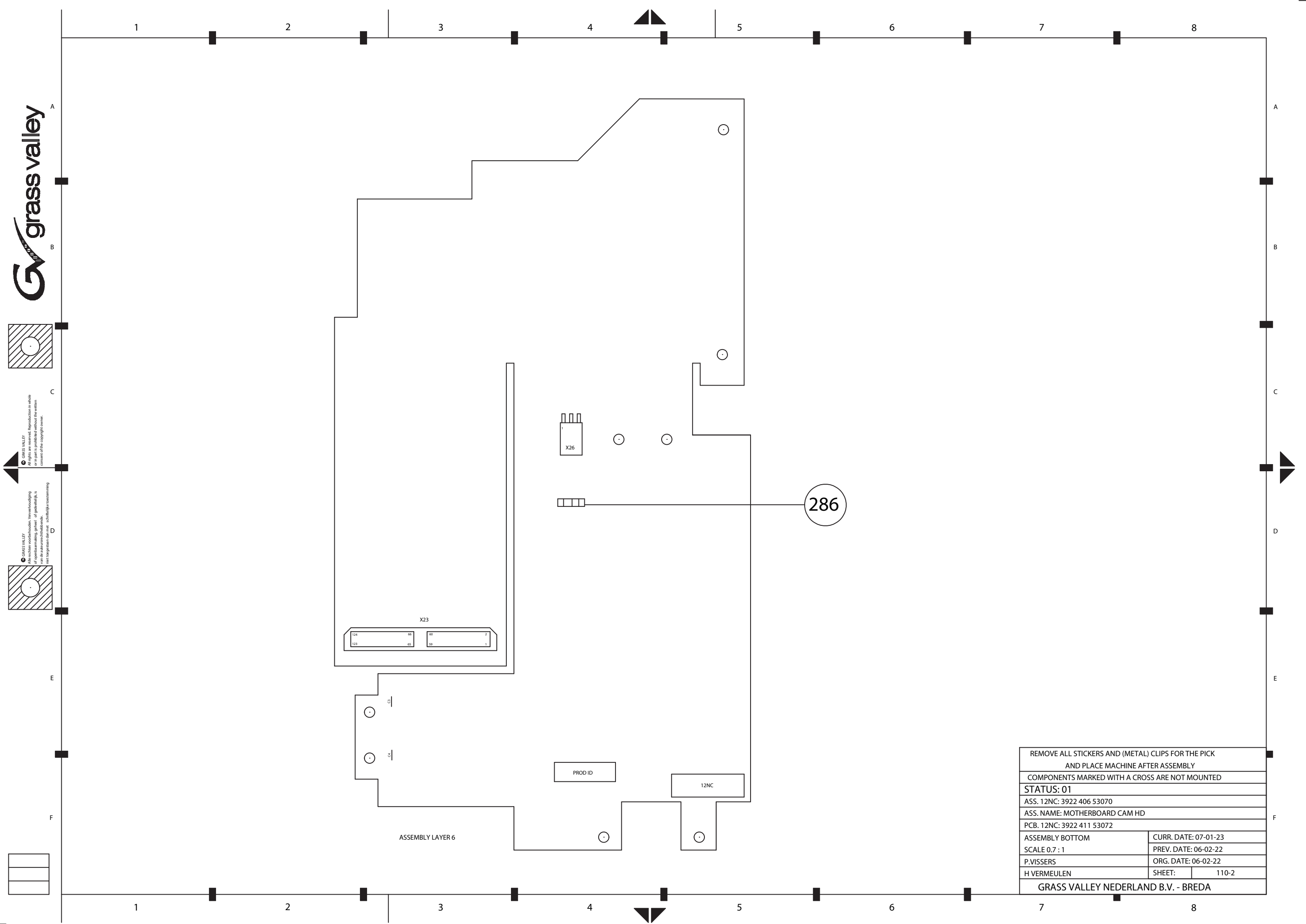
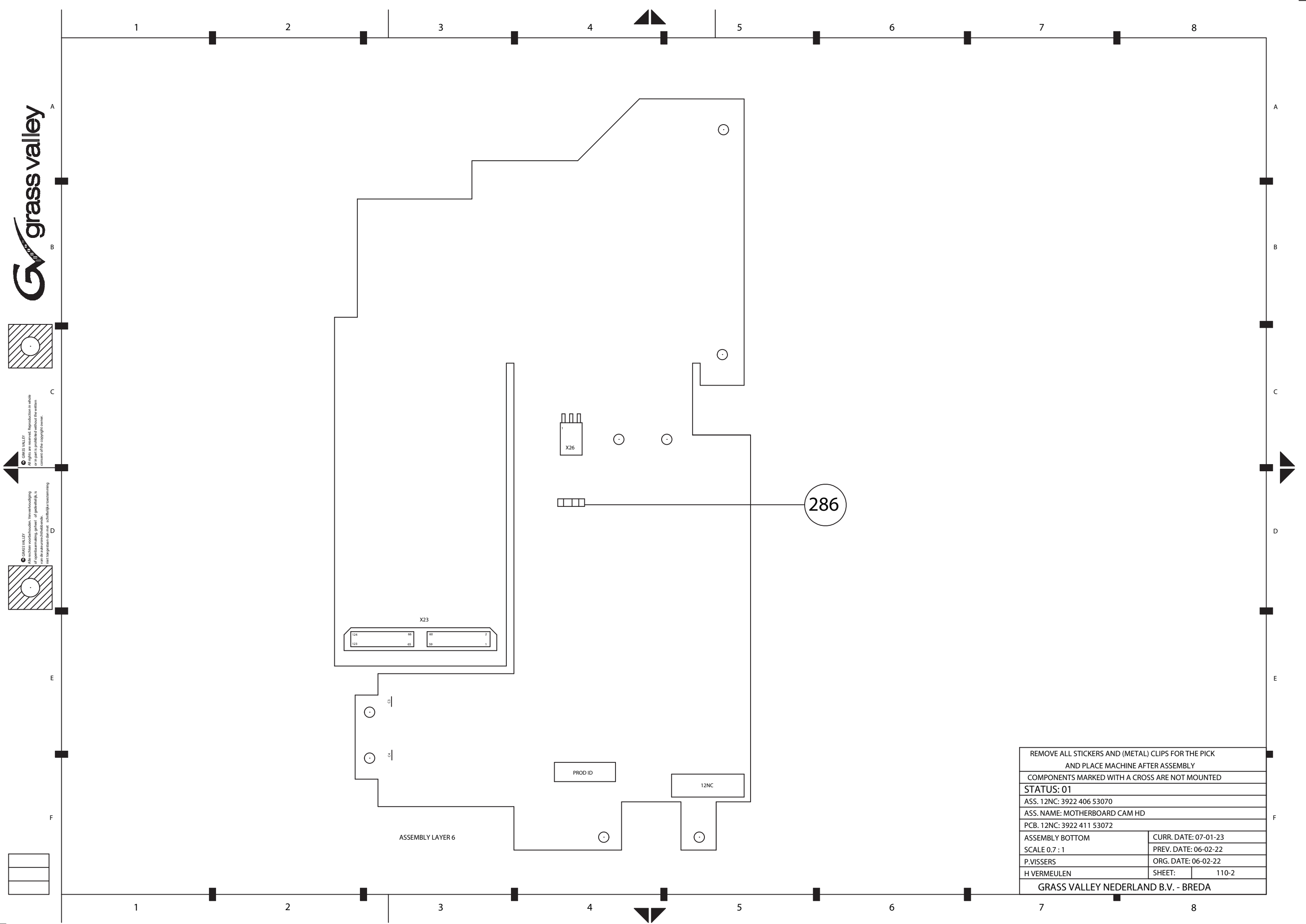
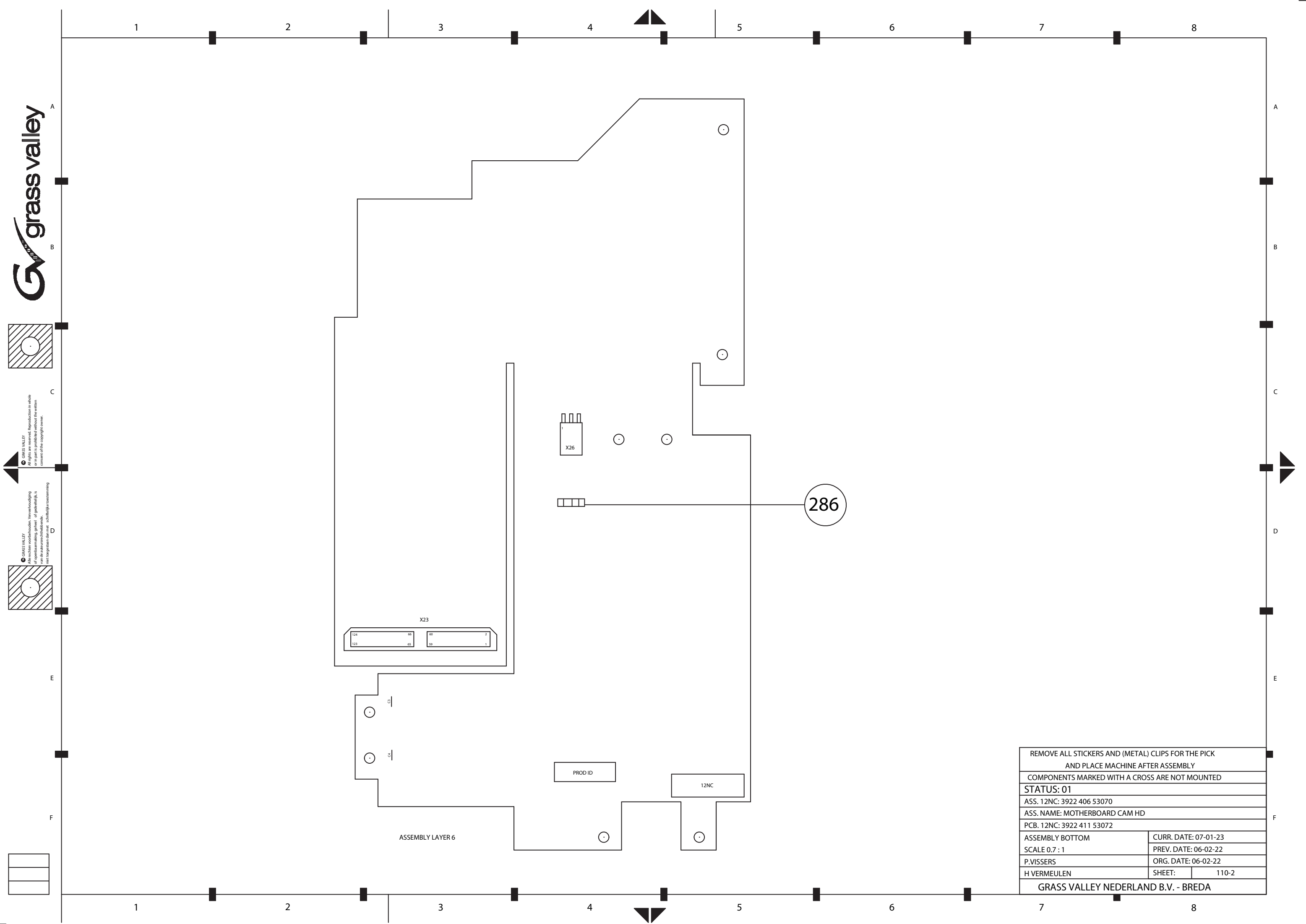
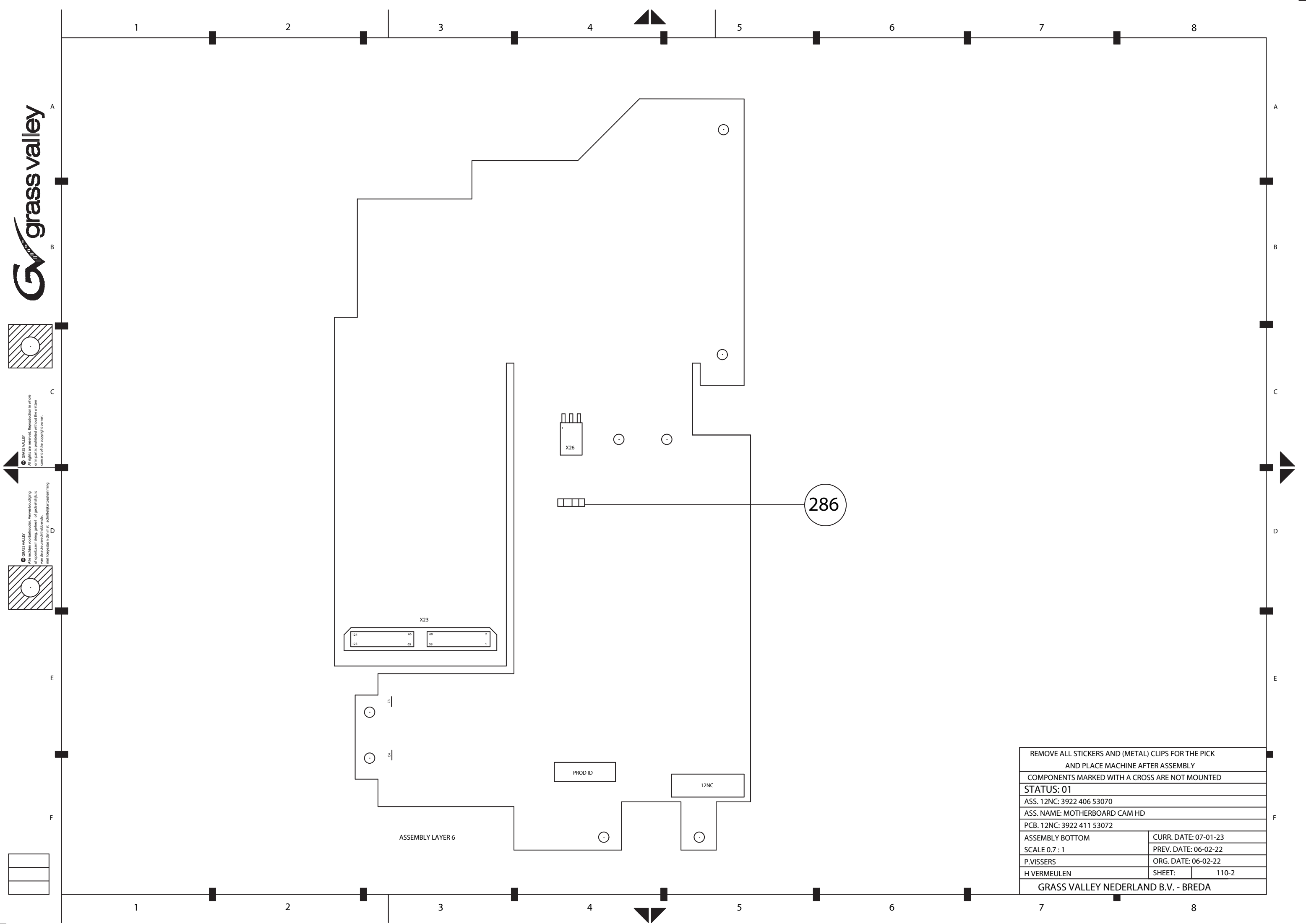
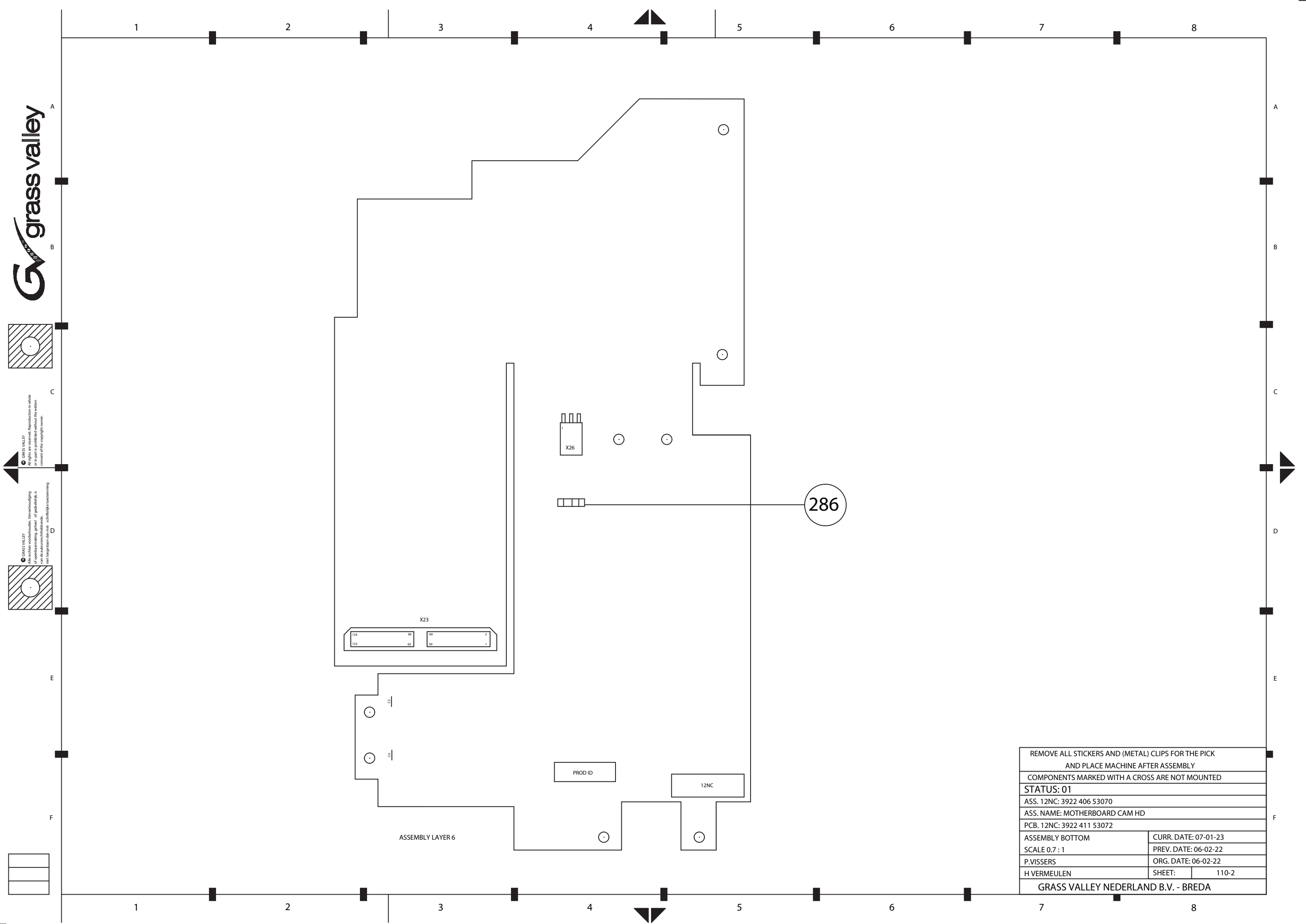
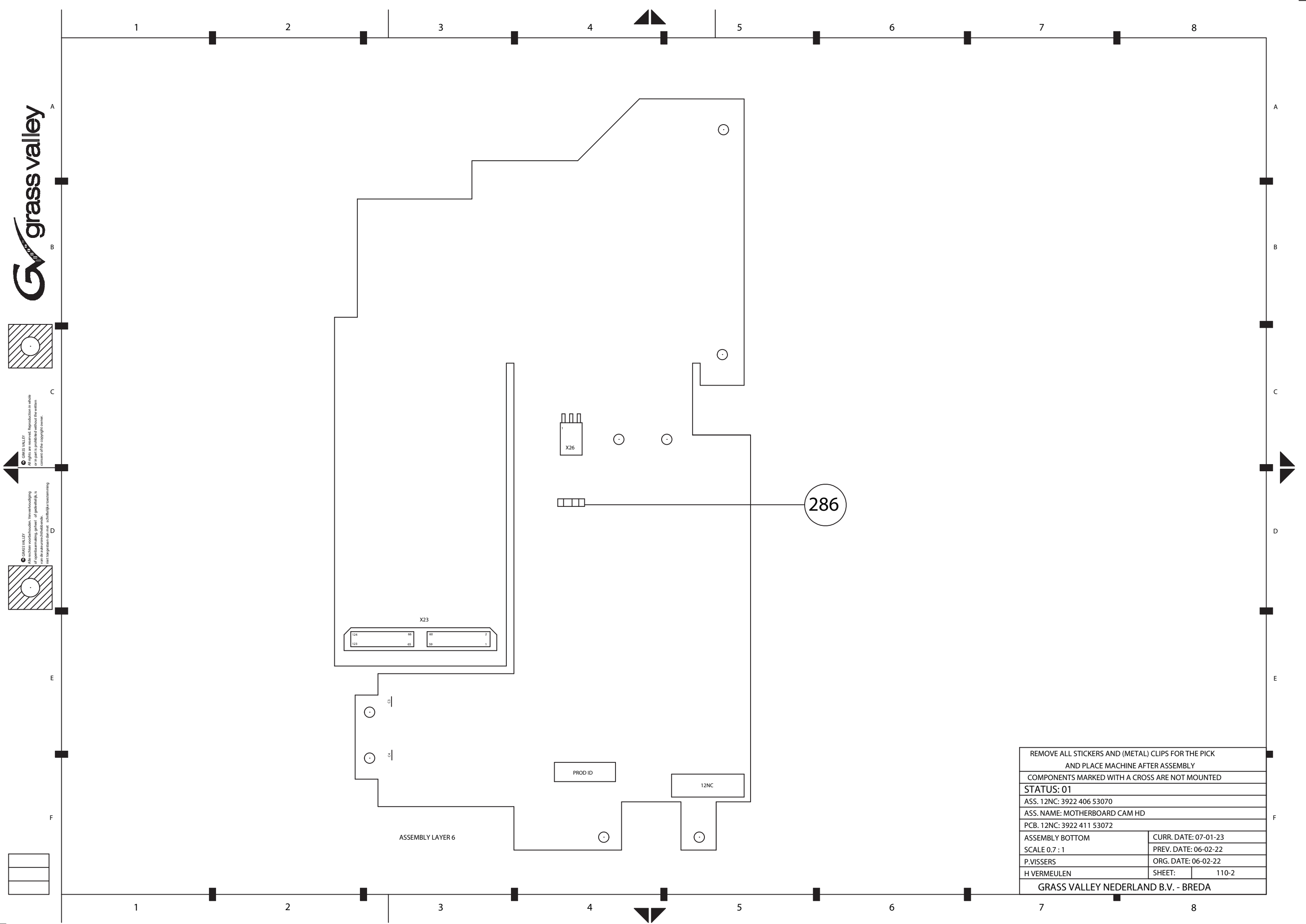
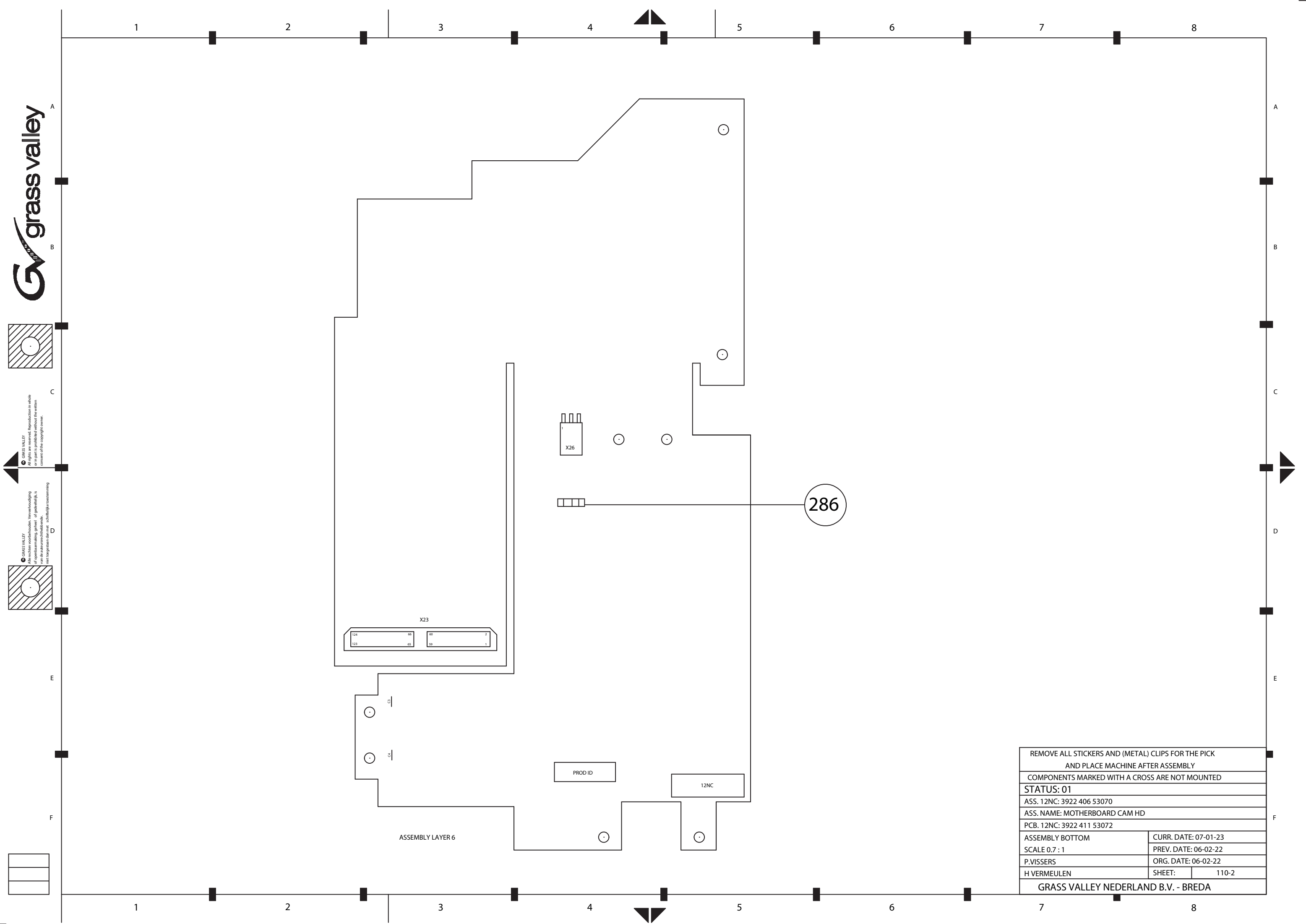
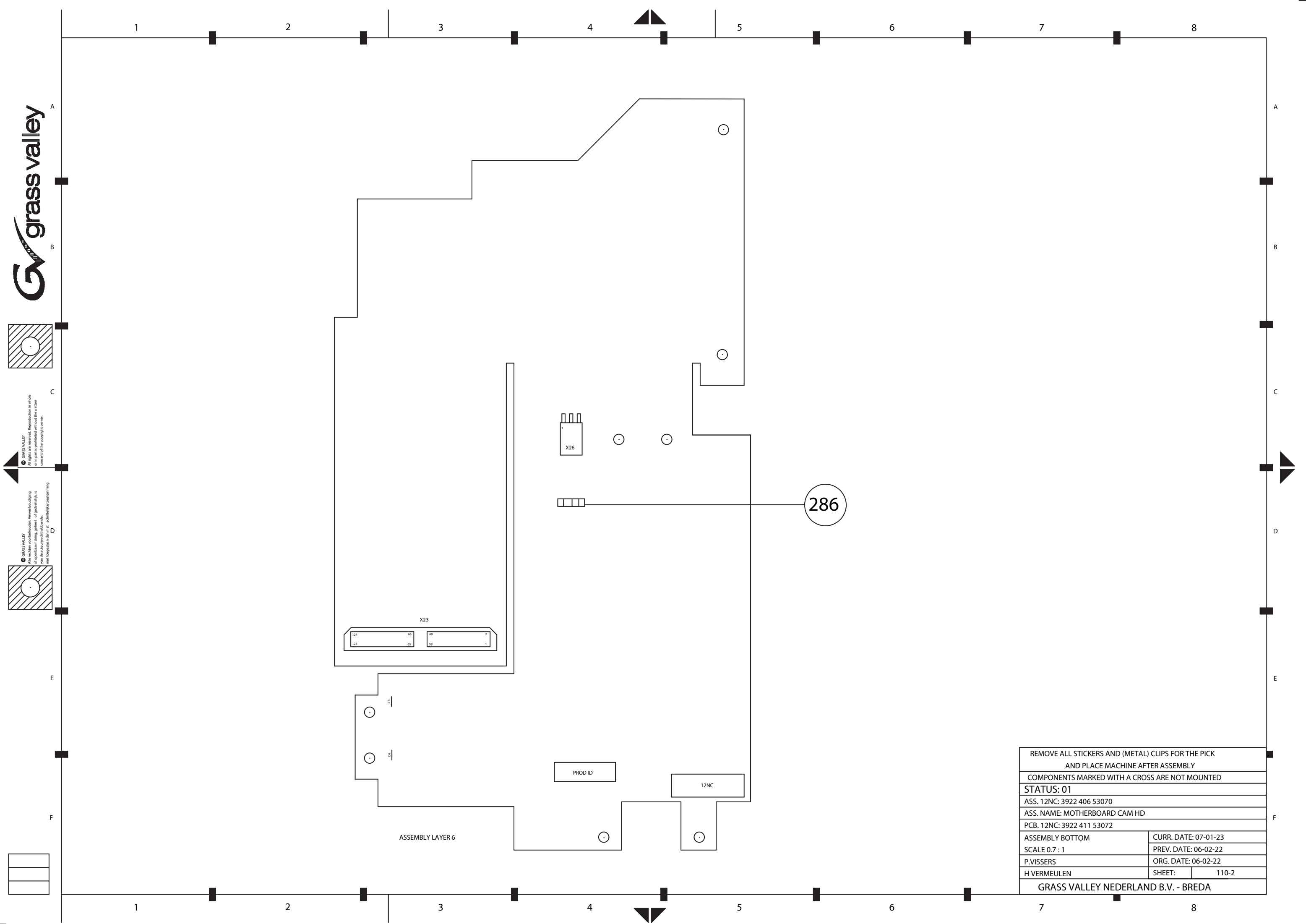
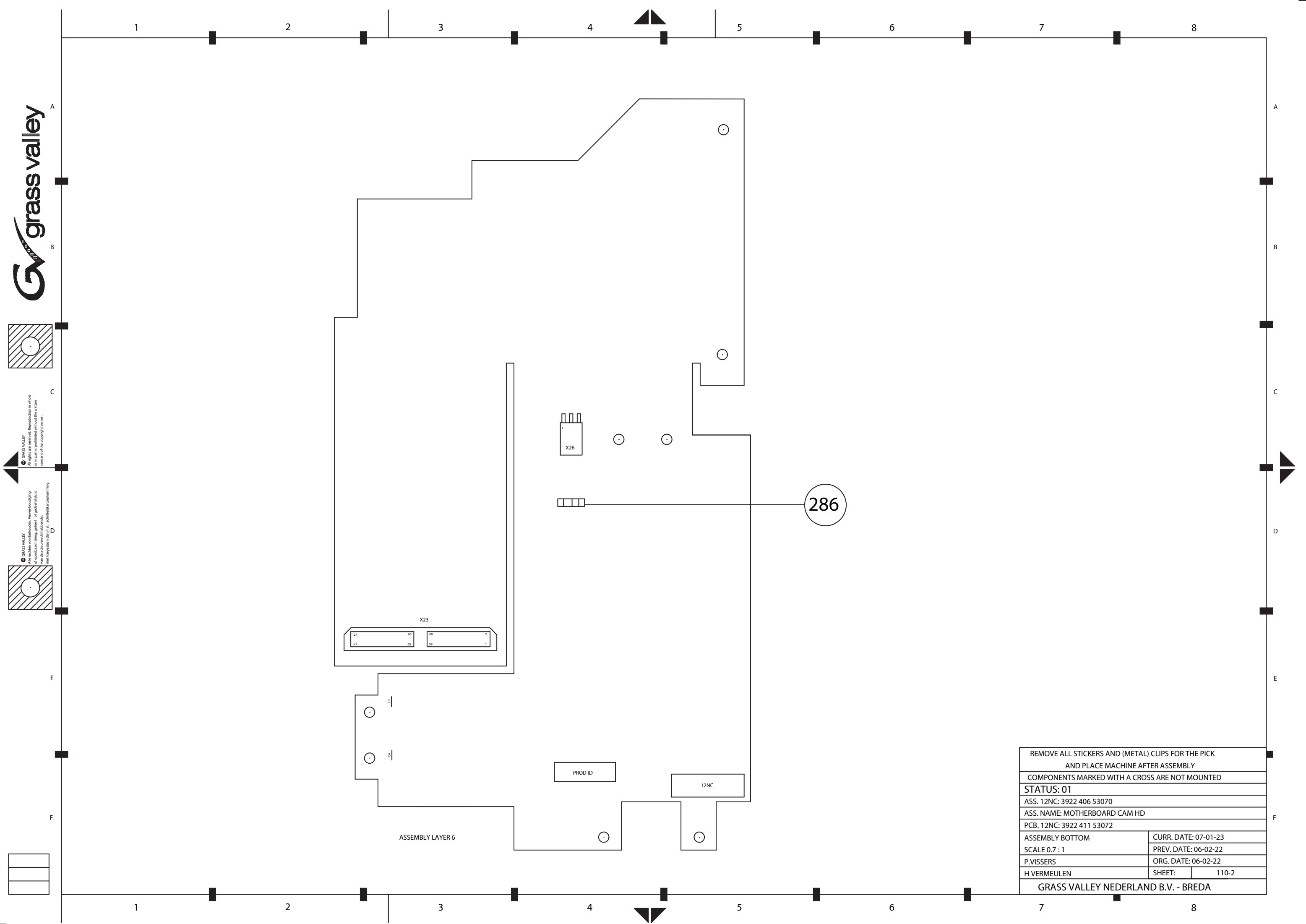
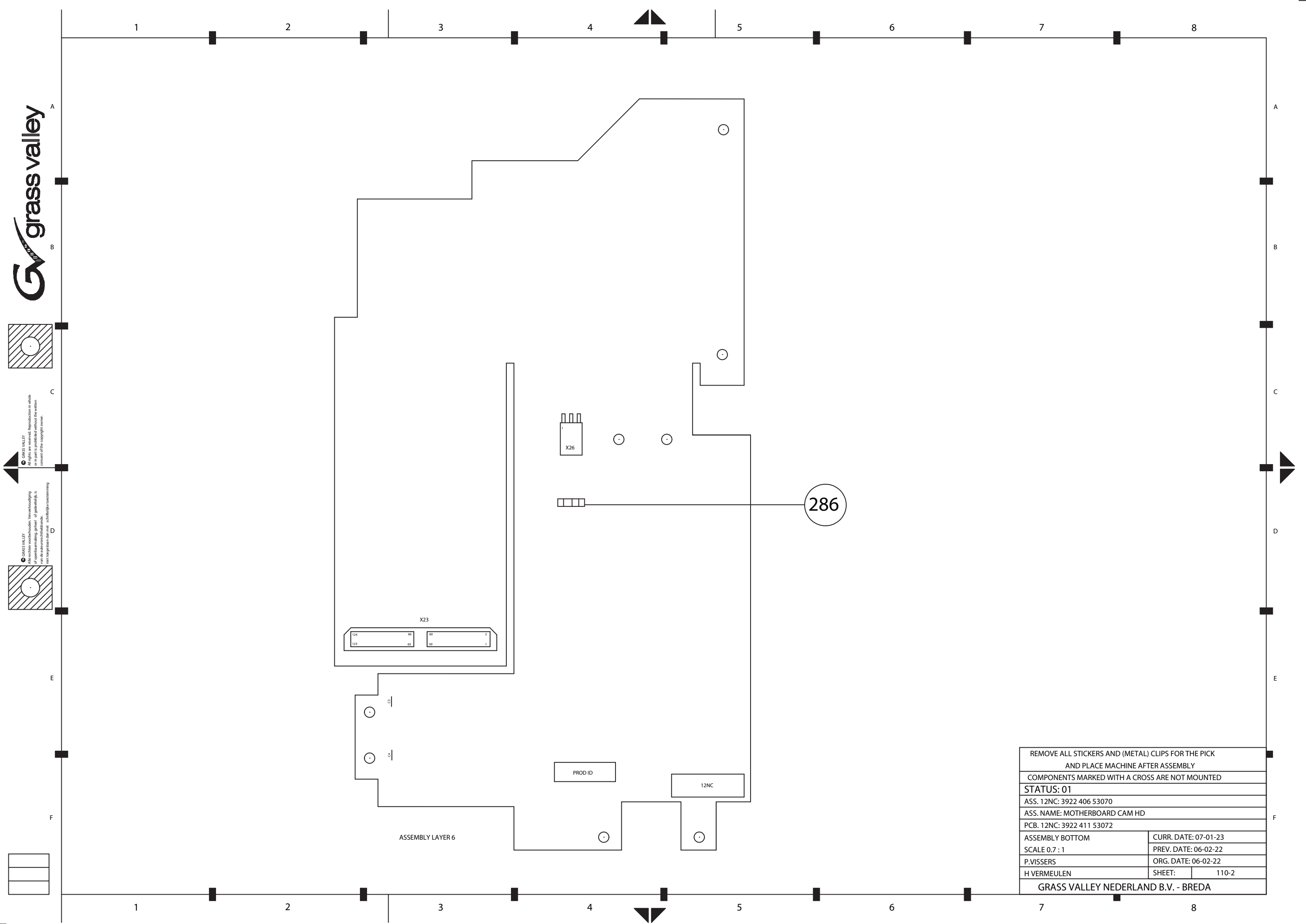
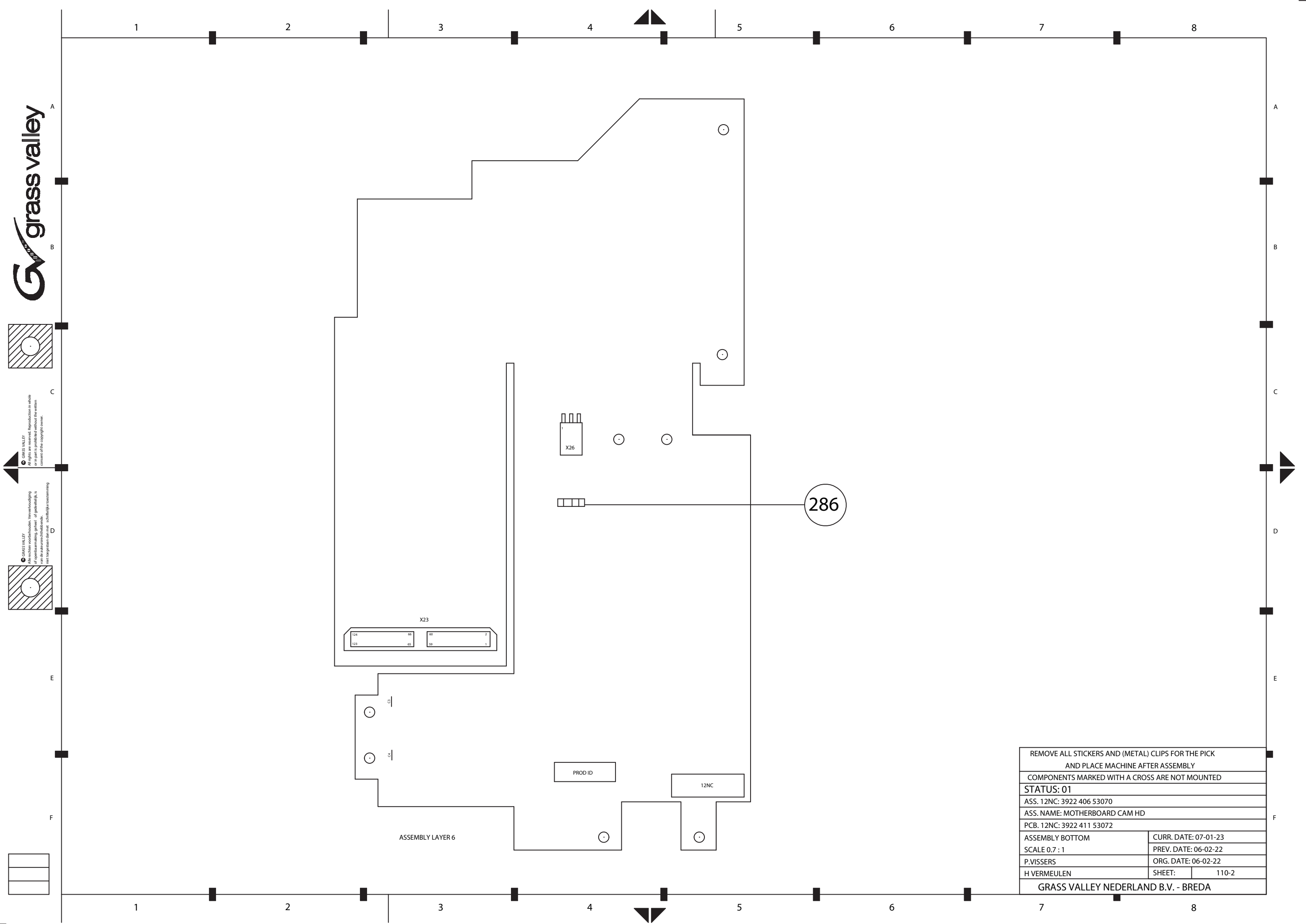
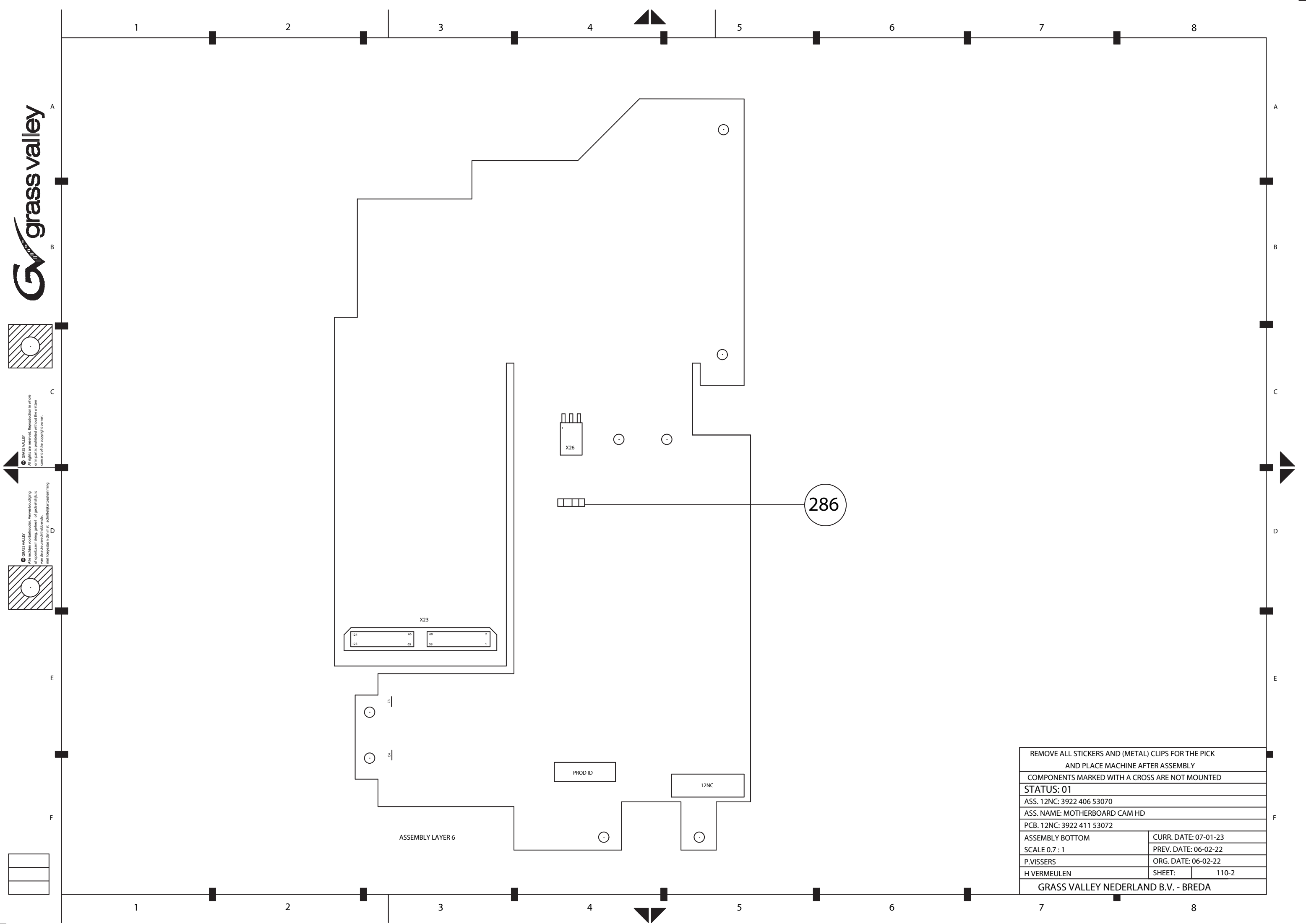
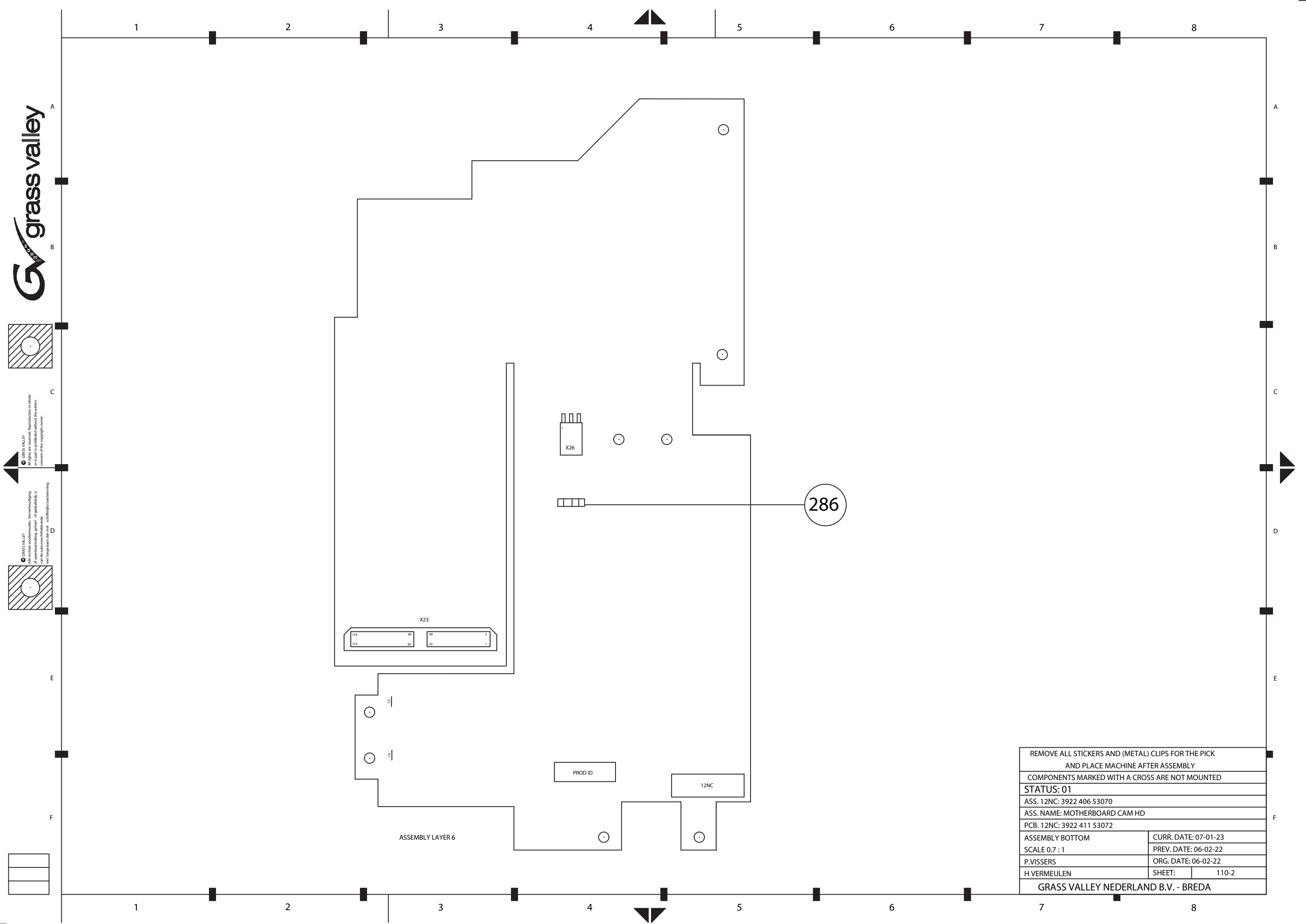
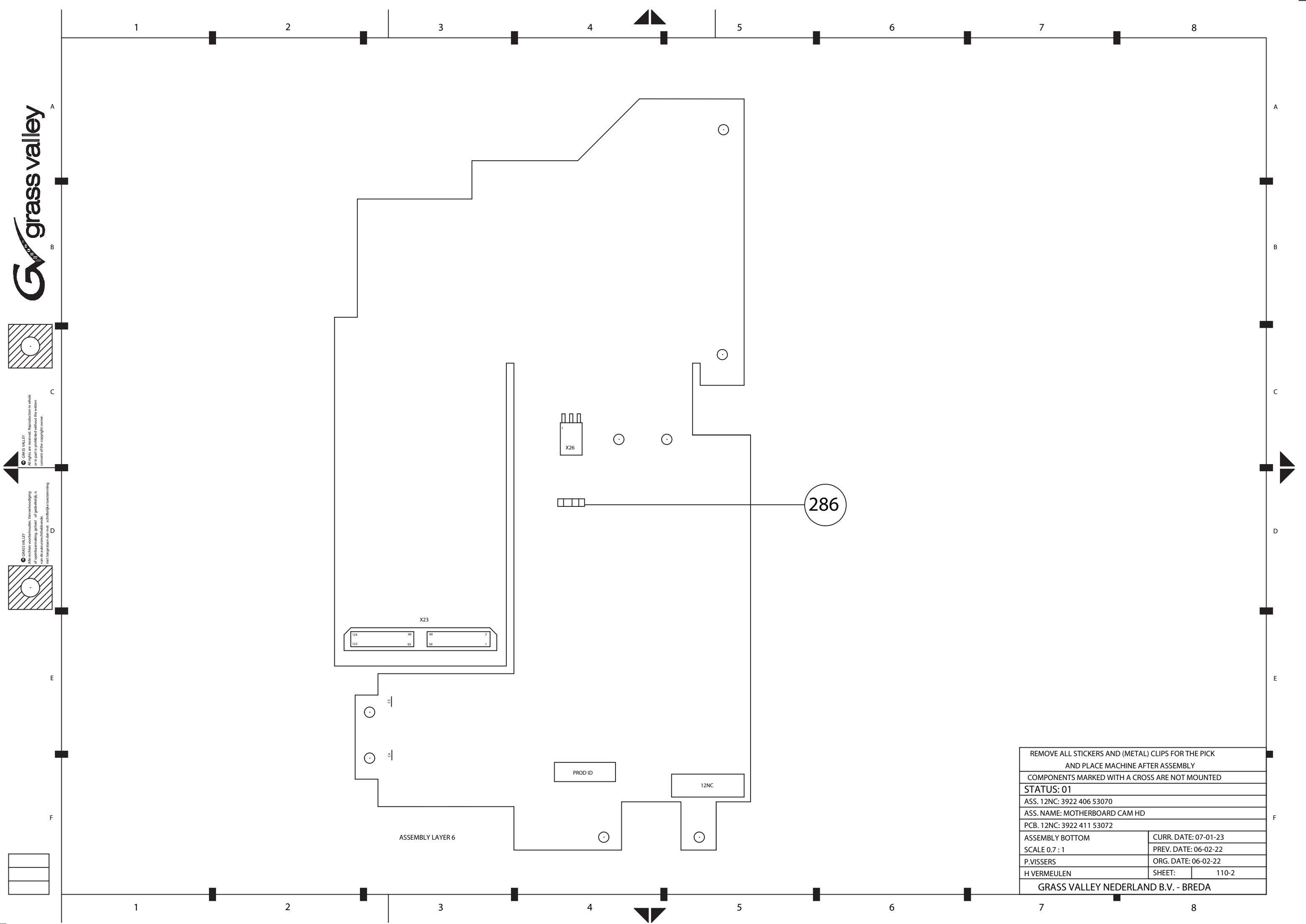
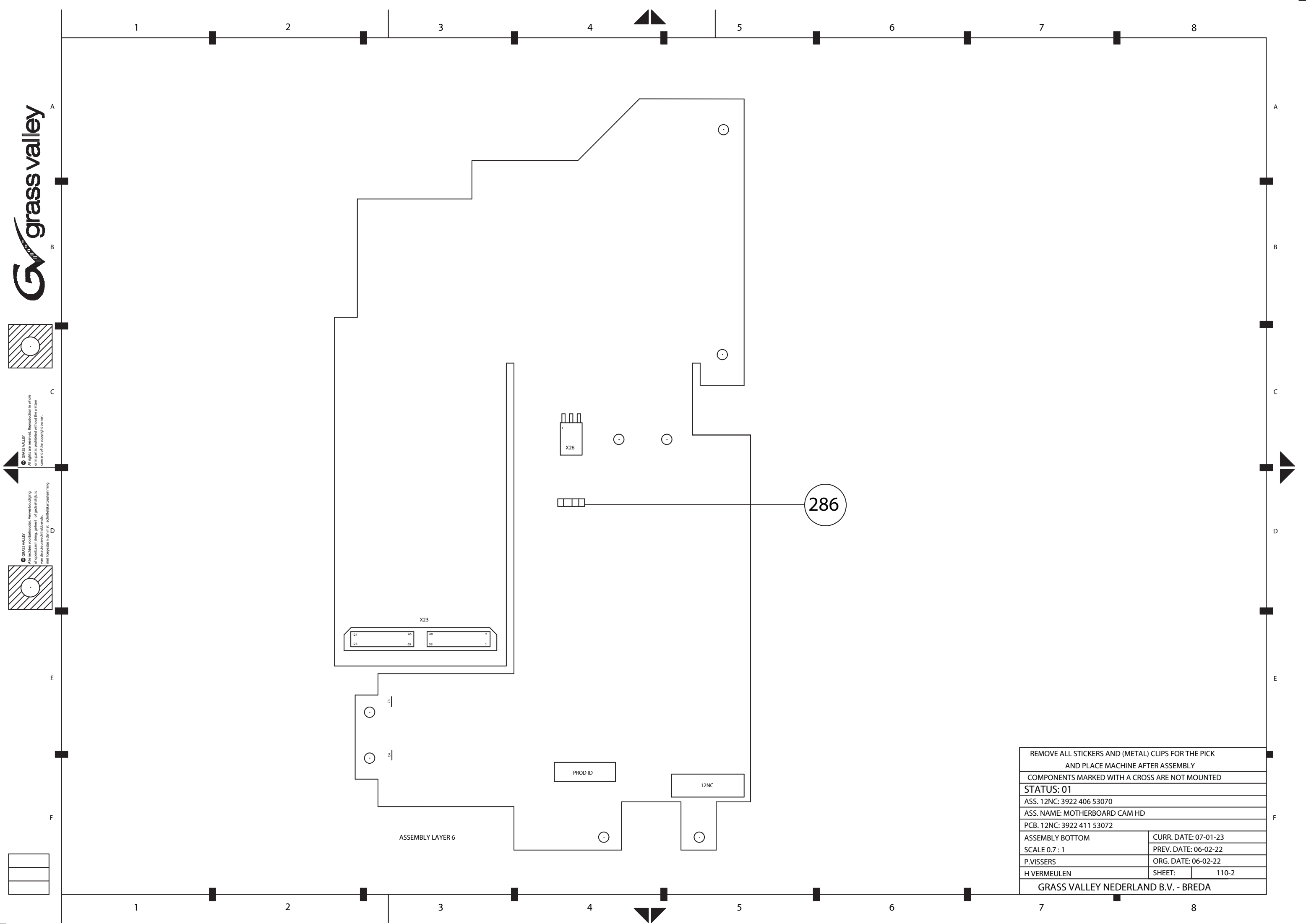
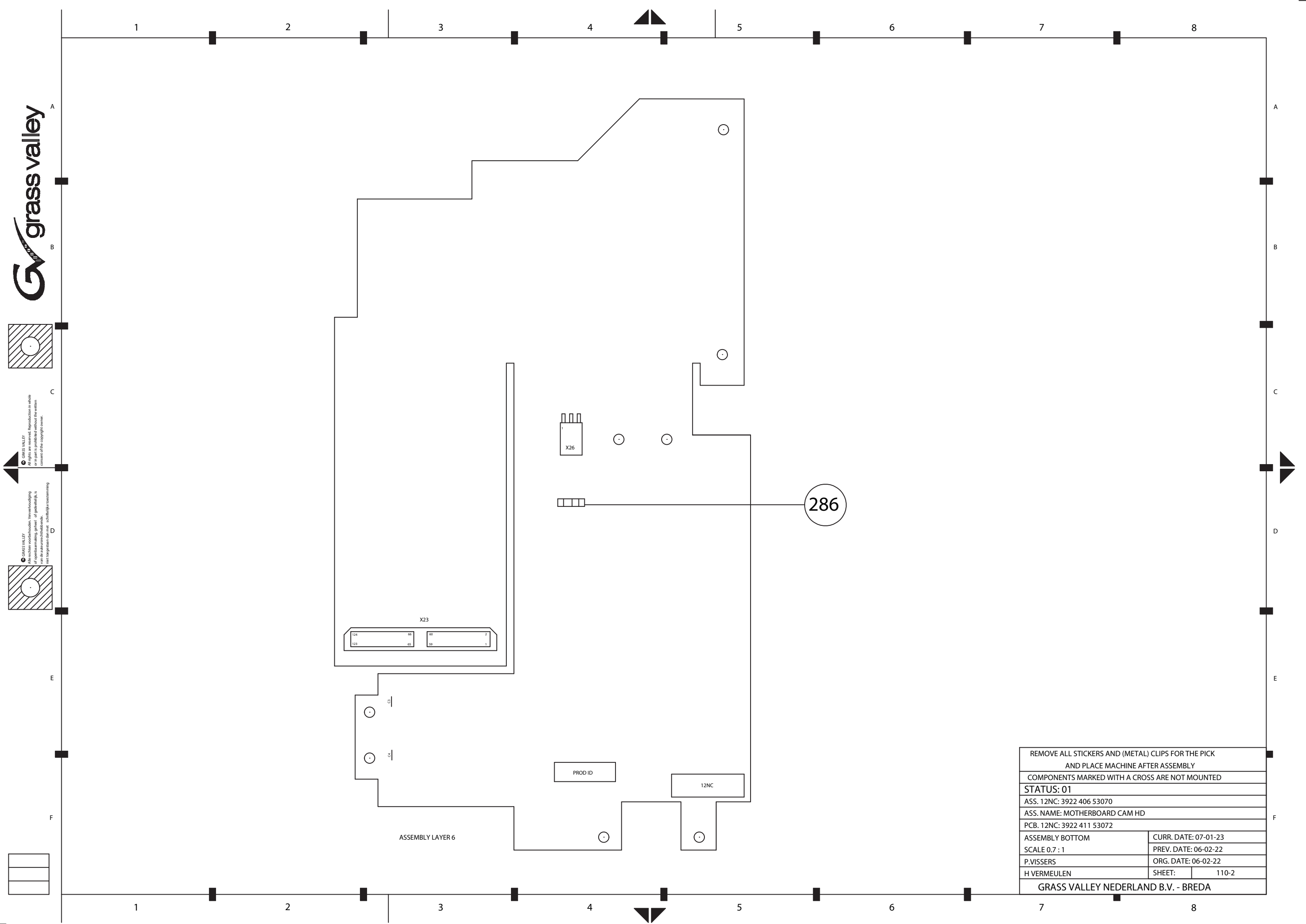
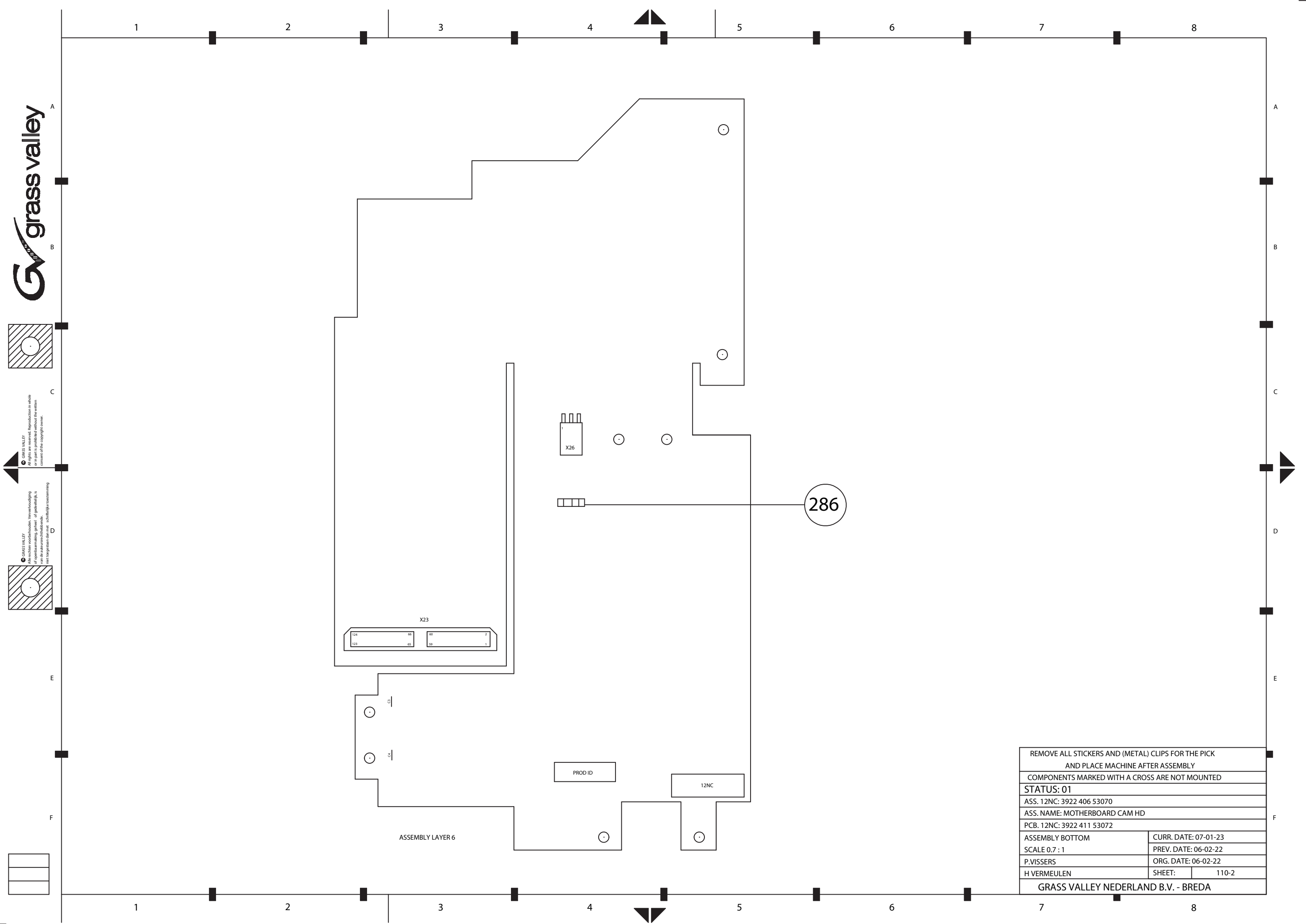
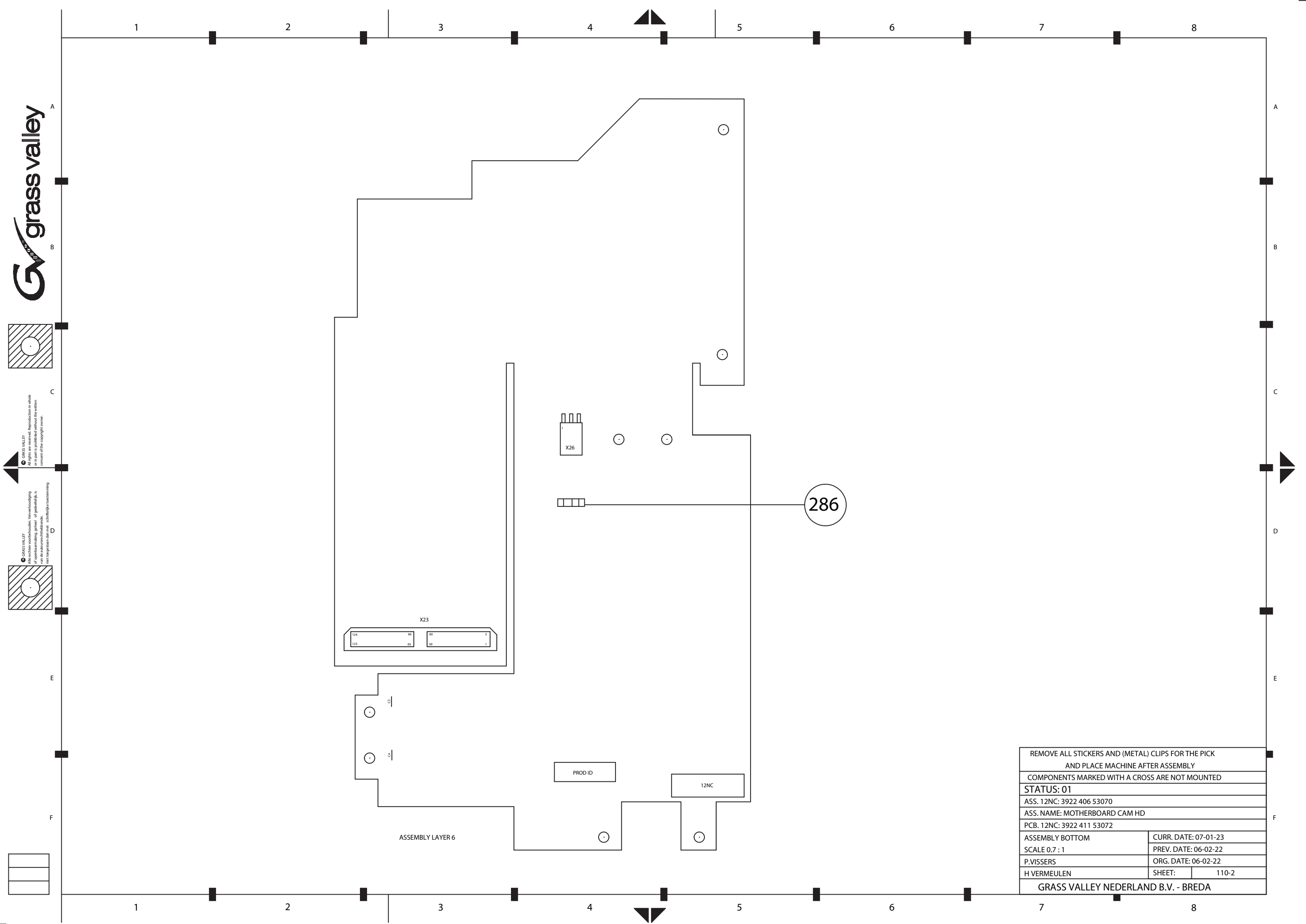
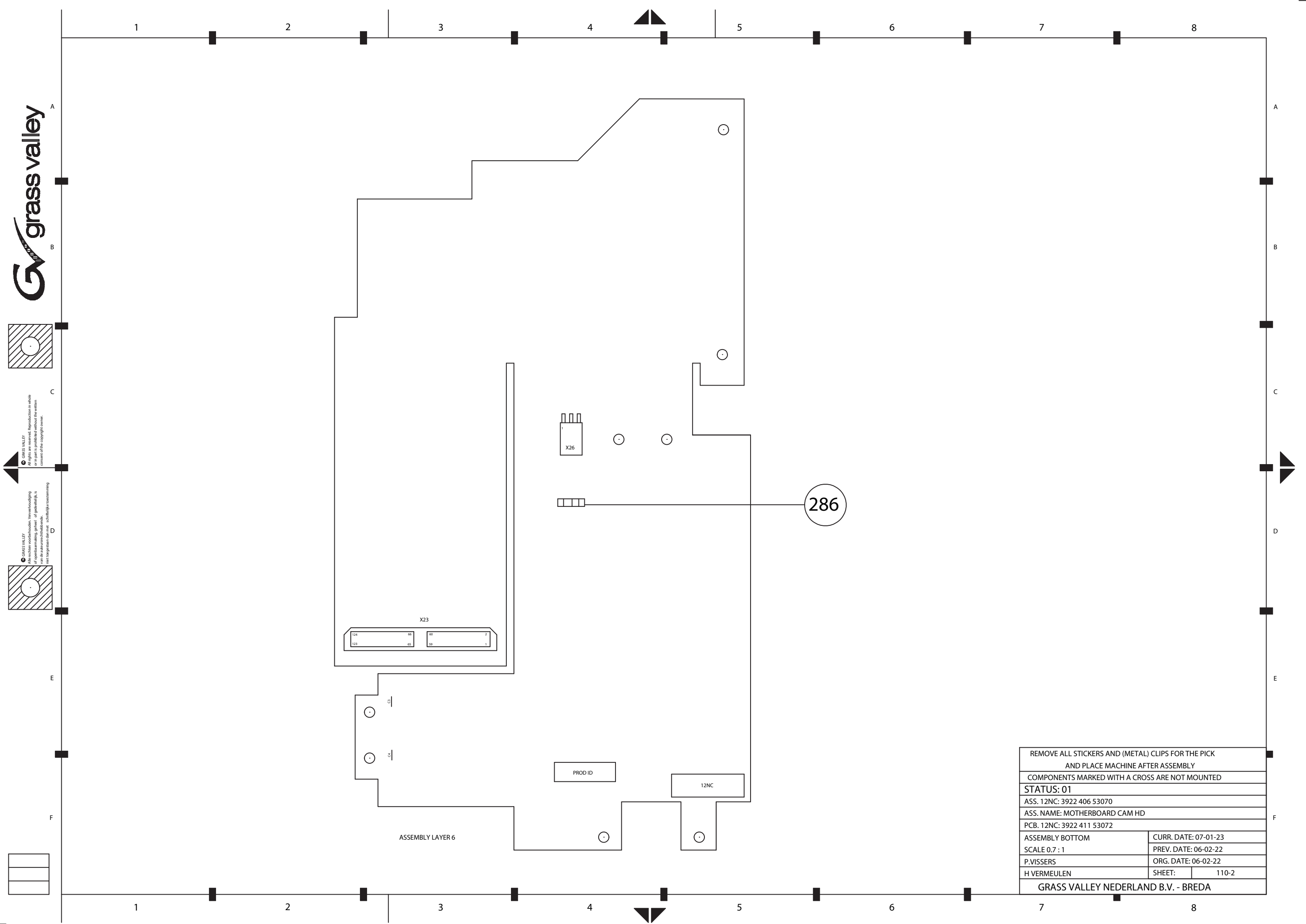
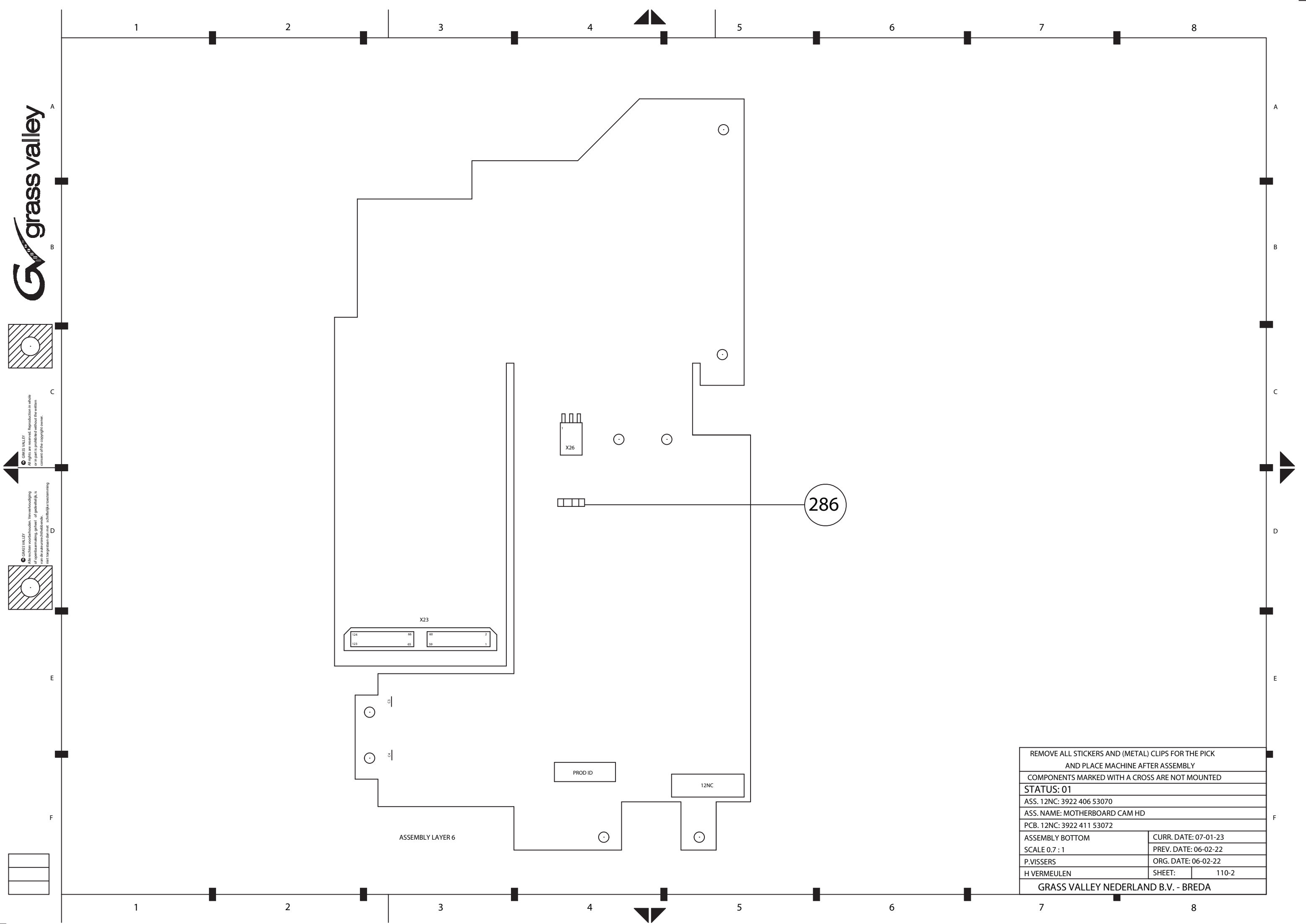
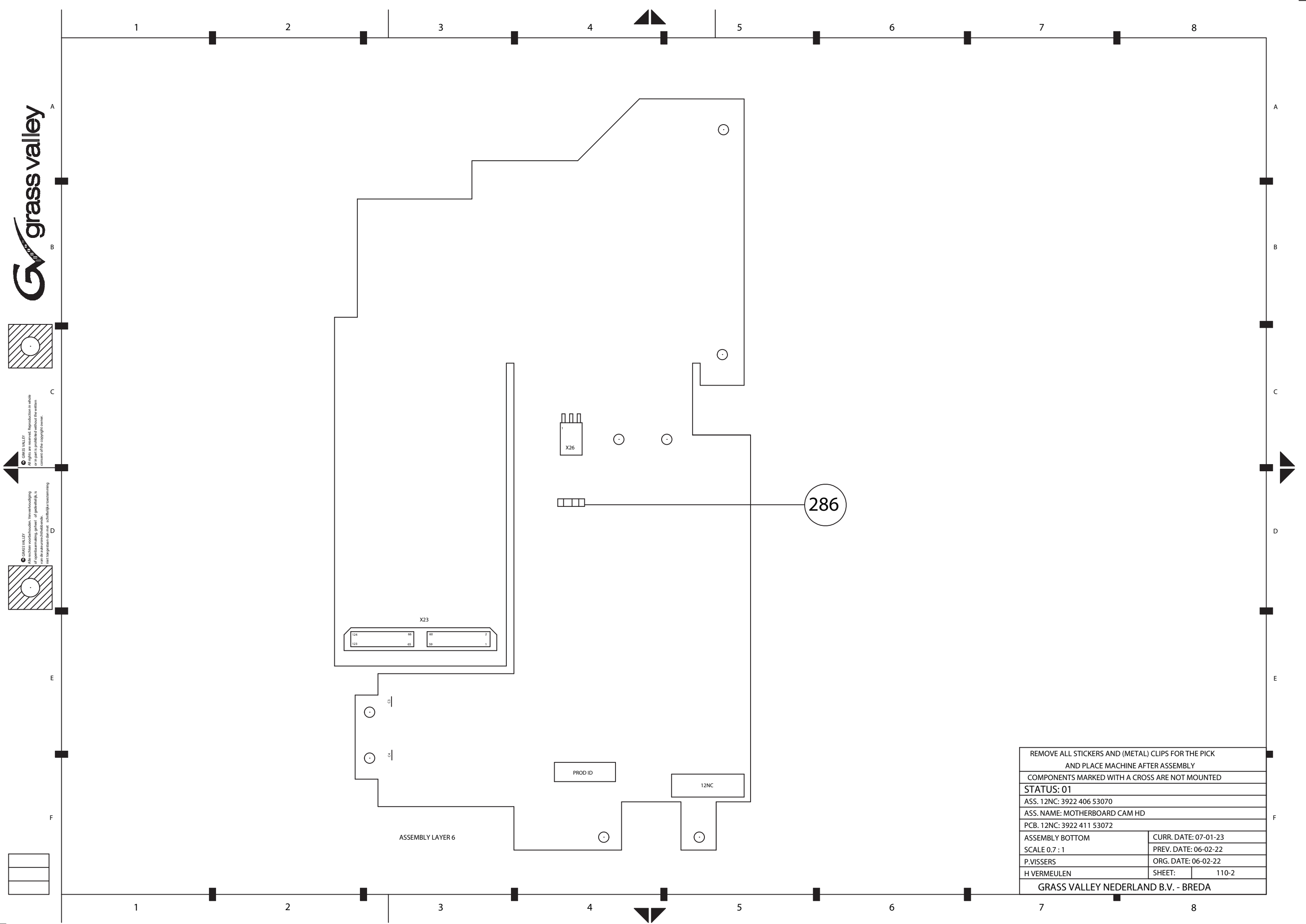
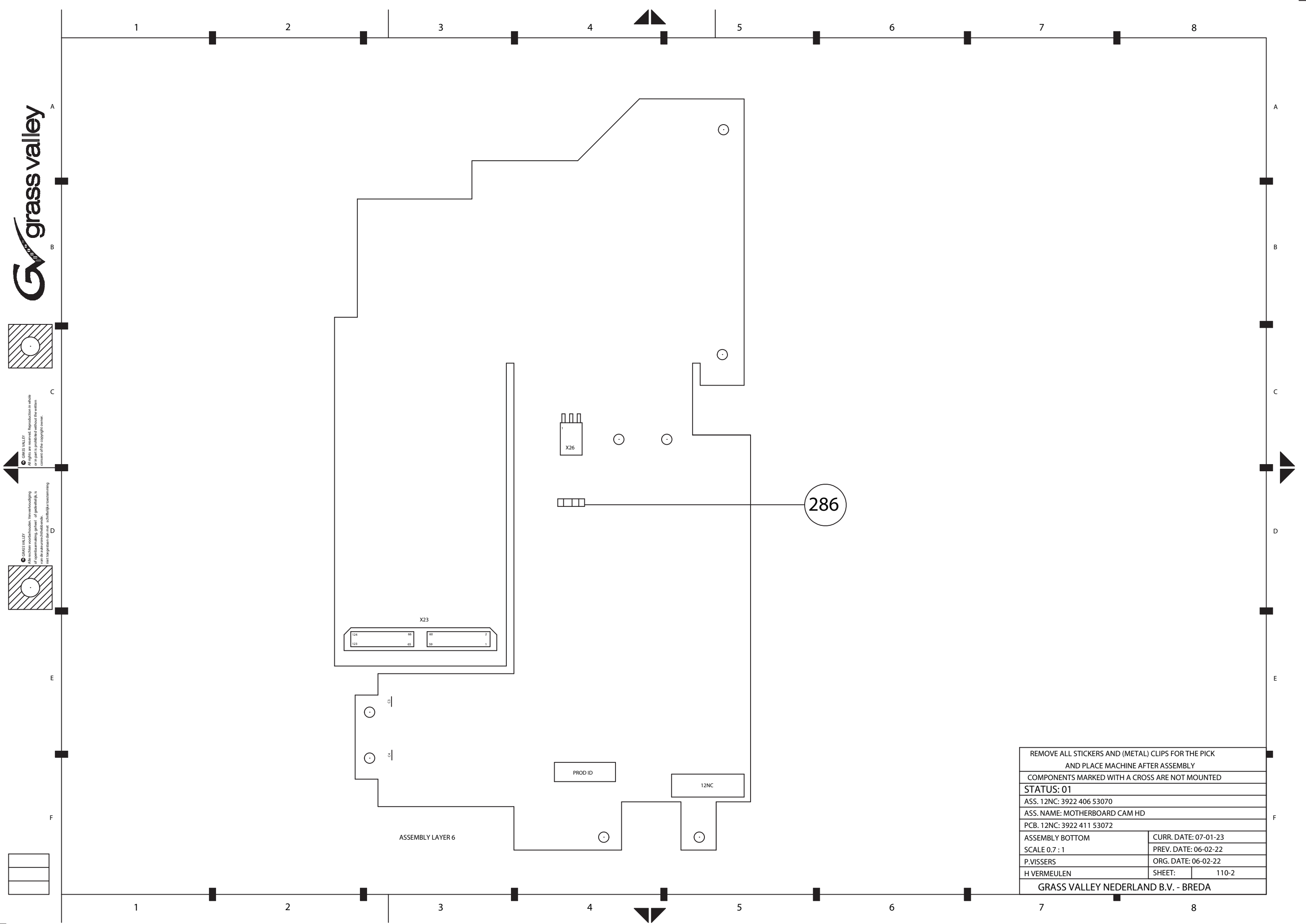
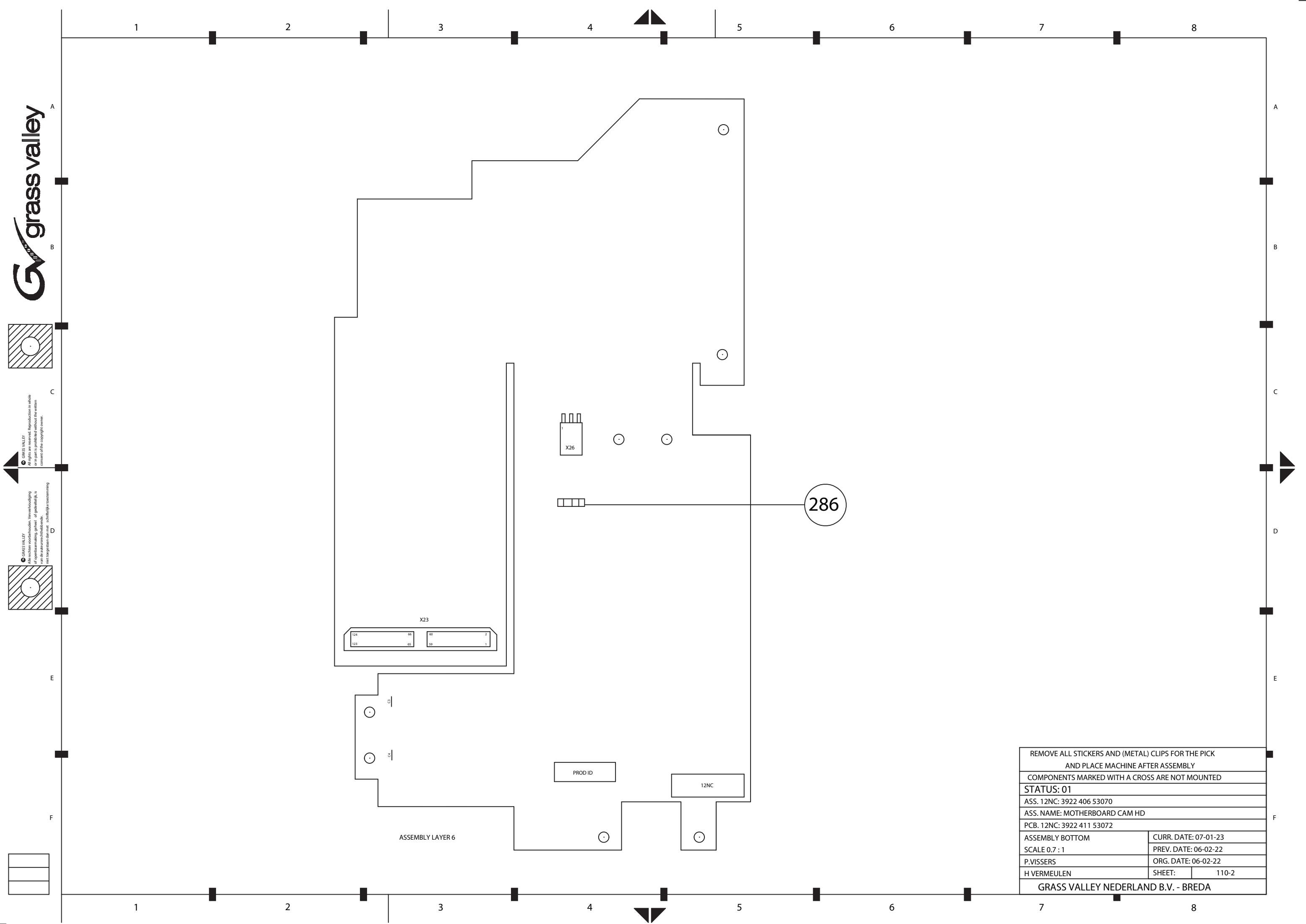
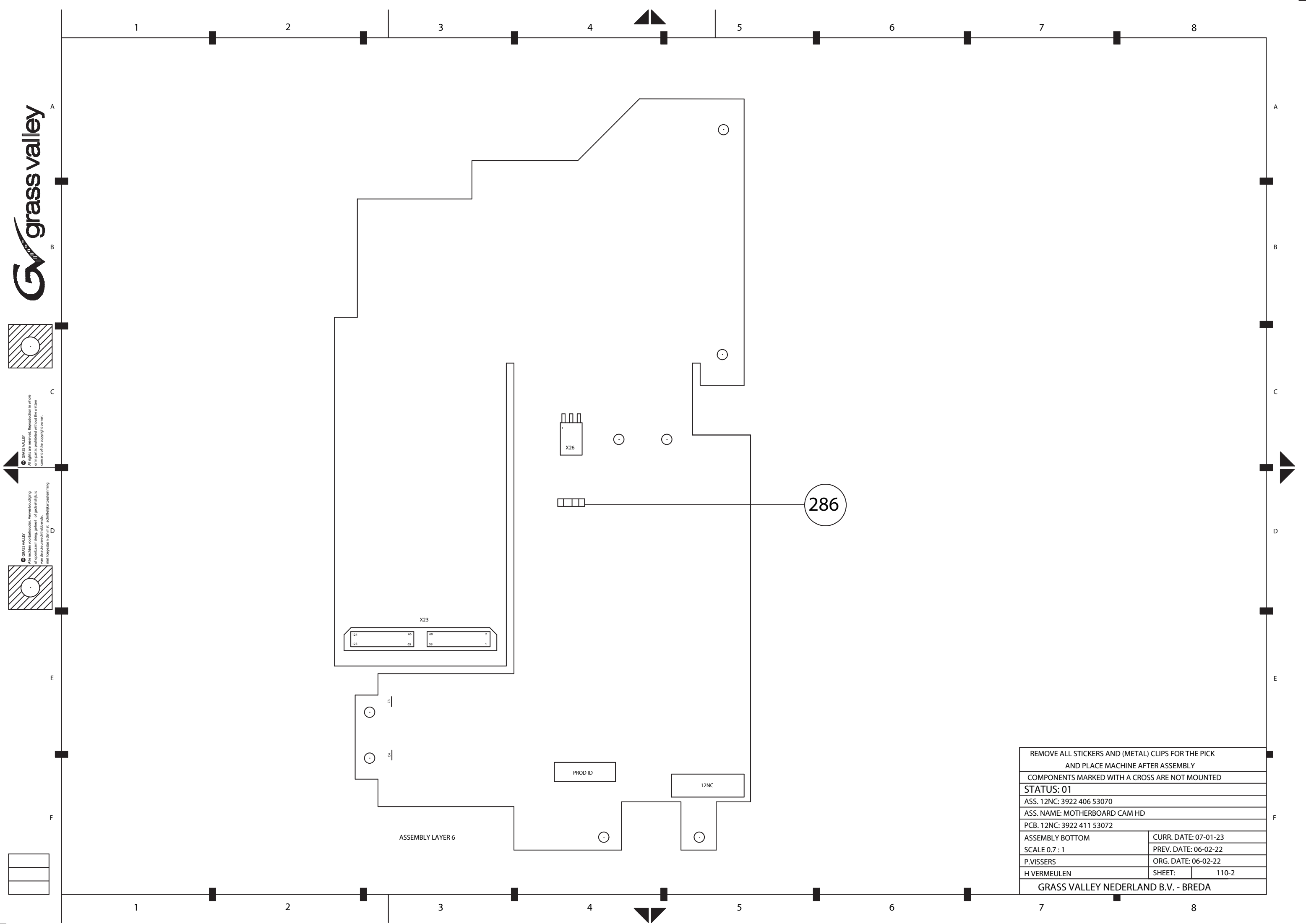
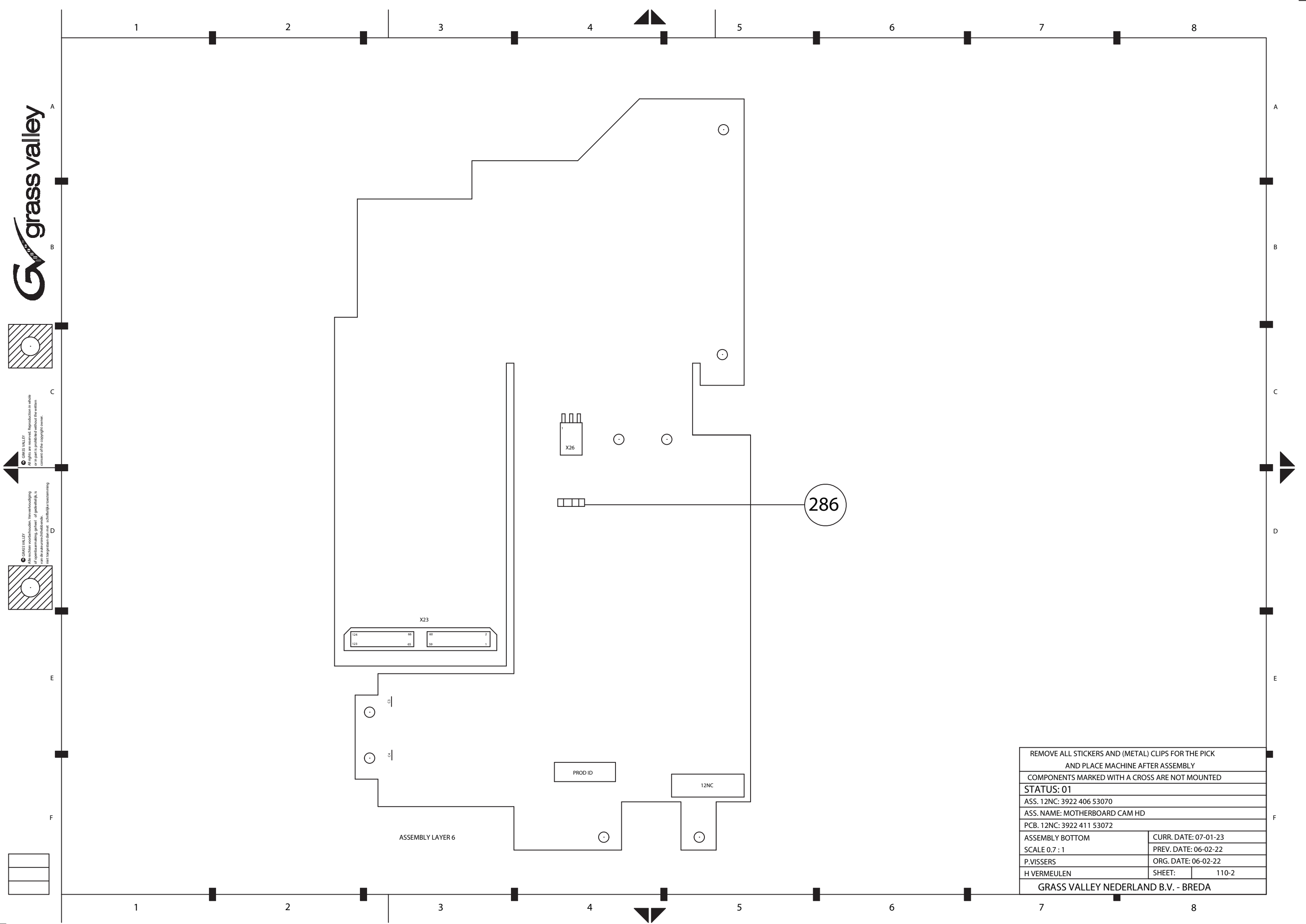
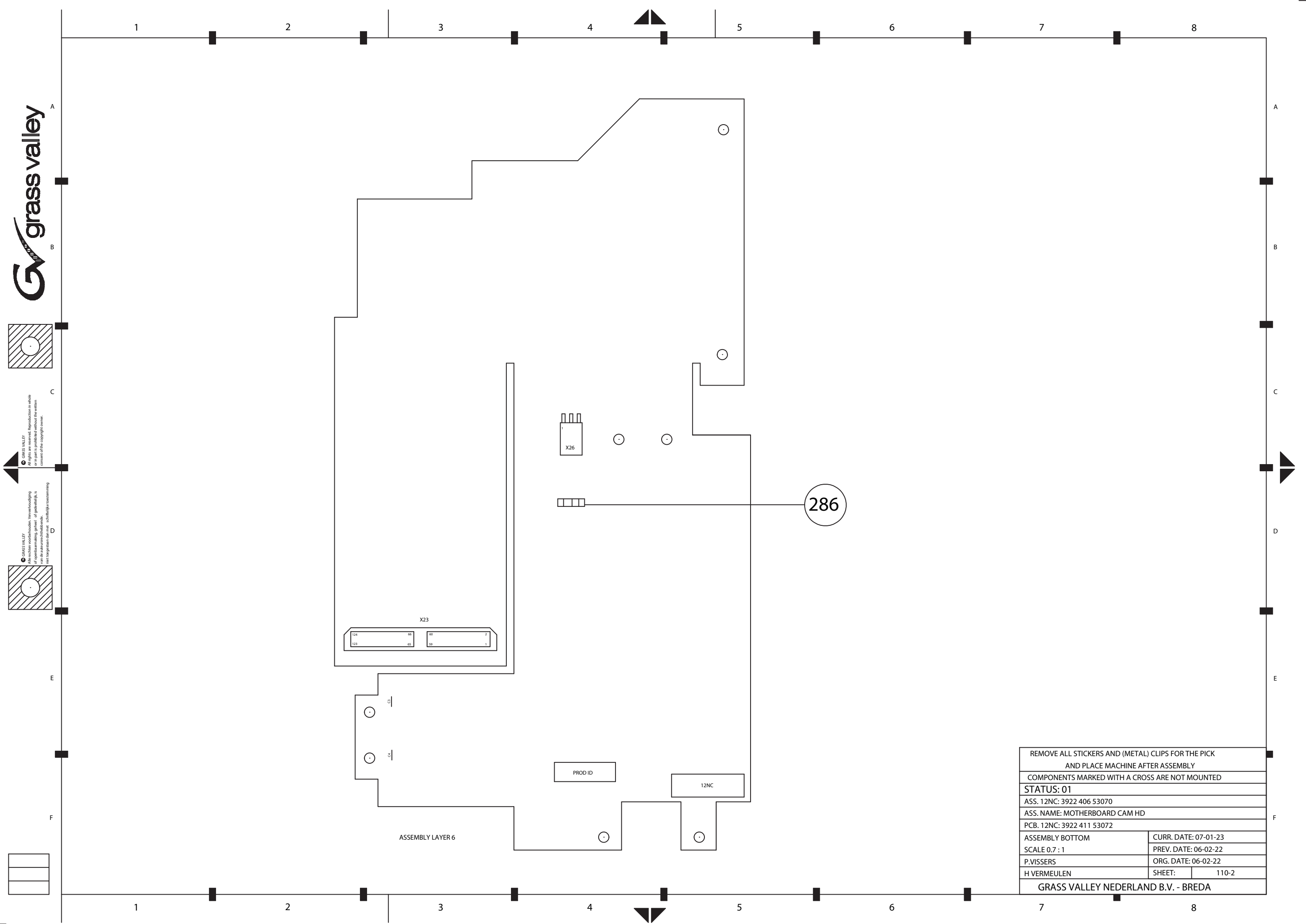
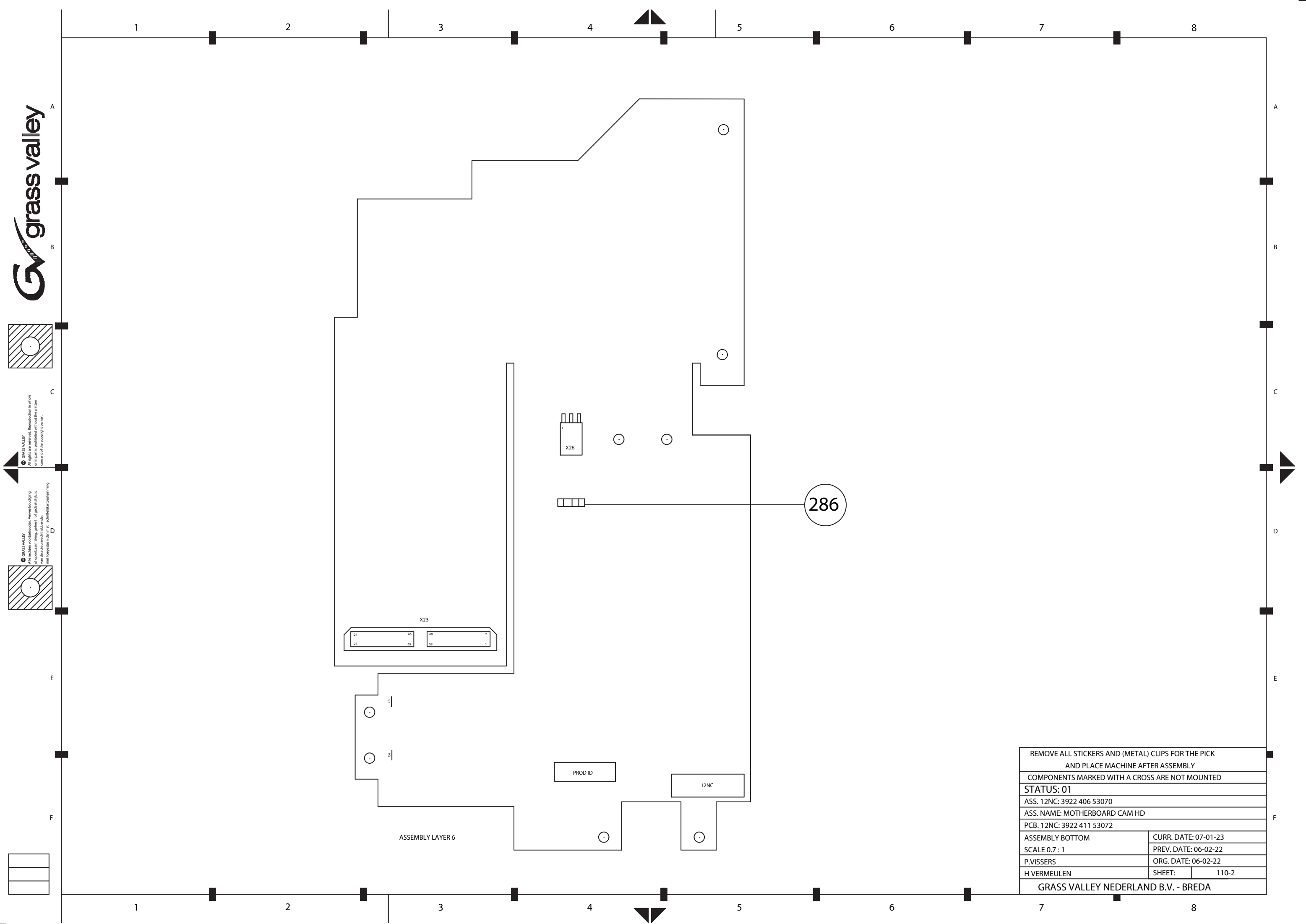
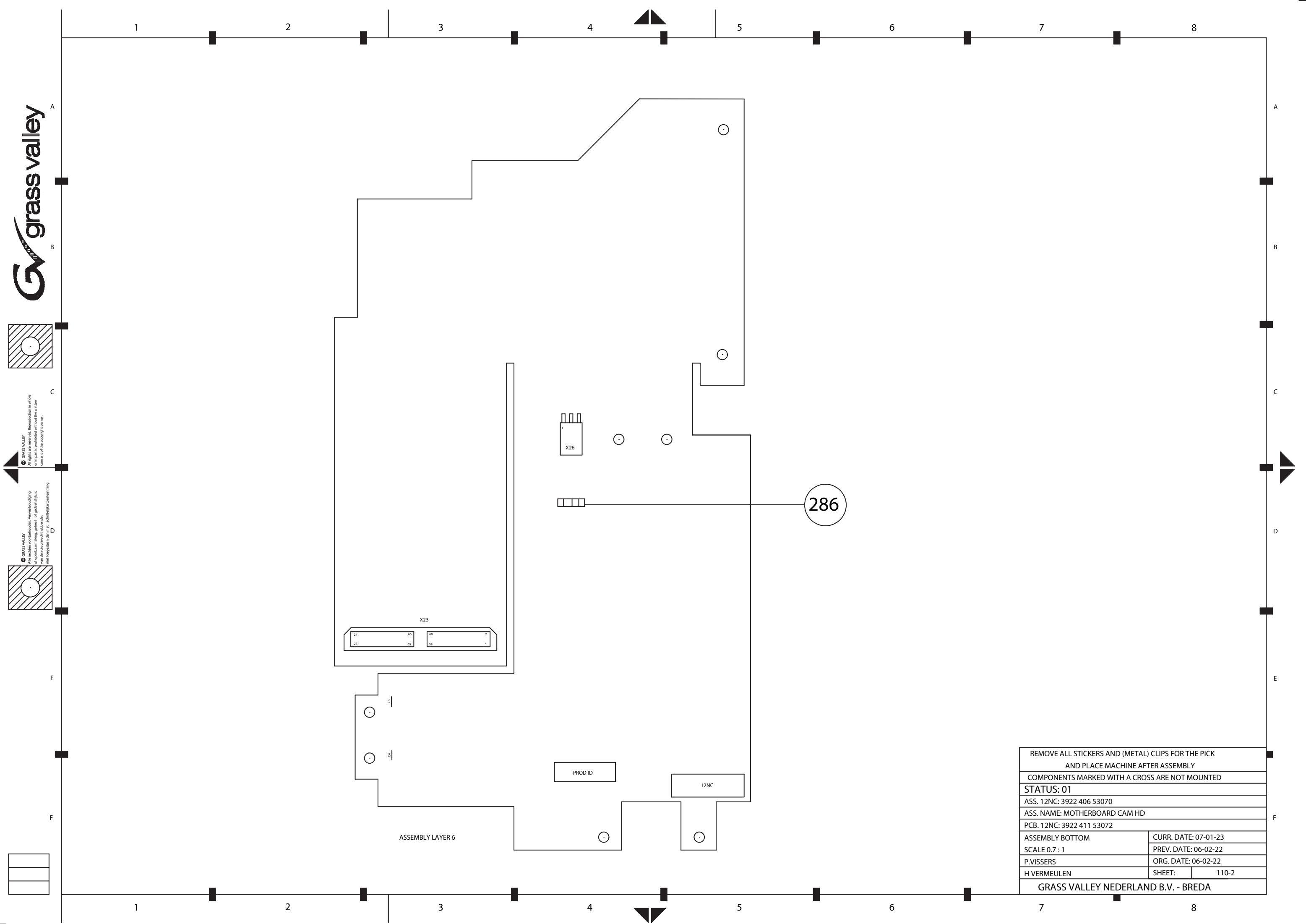
4

5

6

7

8



X10 DOCKING CONN.

X10-1A	LONDATA
X10-2A	SDA-C
X10-3A	INTN-C
X10-4A	ABSENSE
X10-5A	ADPTID0
X10-6A	ADPTID2
X10-7A	AGND
X10-8A	RSD
X10-9A	SYNC
X10-10A	WP1
X10-11A	
X10-12A	BS-TDA
X10-13A	EXTHD
X10-14A	BS-TDV
X10-15A	ADVVID
X10-16A	BS-TCK
X10-17A	EXTVD
X10-18A	-5VS
X10-19A	+5VS
X10-20A	+3V3
X10-21A	+5VD
X10-22A	MICY
X10-23A	MICX
X10-24A	SHIELD
X10-25A	AUDLV
X10-26A	PWRSW
X10-27A	+5VS
X10-28A	L3_1N
X10-29A	L3_1P
X10-30A	SCLK
X10-31A	L3_CLKN
X10-32A	L3_CLKP
X10-33A	L1_2N
X10-34A	L1_2P
X10-35A	L1_1N
X10-36A	L1_1P
X10-37A	L1_0N
X10-38A	L1_0P
X10-39A	L1_CLKN
X10-40A	L1_CLKP

X10-1B	LONATAN
X10-2B	SCL-C
X10-3B	AUDIND
X10-4B	BATTSENS
X10-5B	ADPTID1
X10-6B	ADPTID3
X10-7B	
X10-8B	PIP
X10-9B	BLANK
X10-10B	WP2
X10-11B	FRARESET
X10-12B	HLOCK
X10-13B	EXTHD-RET
X10-14B	BS-TMS
X10-15B	ADVVIDR
X10-16B	BSTRSTN
X10-17B	EXTVORT
X10-18B	-5VS
X10-19B	+5VS
X10-20B	+3V3
X10-21B	+5VD
X10-22B	
X10-23B	
X10-24B	
X10-25B	AUDLV_REF
X10-26B	TXD
X10-27B	-5VS
X10-28B	L3_2N
X10-29B	L3_2P
X10-30B	SCLKN
X10-31B	L3_0N
X10-32B	L3_0P
X10-33B	L2_2N
X10-34B	L2_2P
X10-35B	L2_1N
X10-36B	L2_1P
X10-37B	L2_0N
X10-38B	L2_0P
X10-39B	L2_CLKN
X10-40B	L2_CLKP

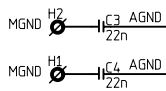
X10-1C	AGND
X10-2C	AGND
X10-3C	AGND
X10-4C	AGND
X10-5C	AGND
X10-6C	AGND
X10-7C	AGND
X10-8C	AGND
X10-9C	AGND
X10-10C	AGND
X10-11C	
X10-12C	
X10-13C	
X10-14C	BS-AWRITE
X10-15C	BS-AGND
X10-16C	BS-PRGN
X10-17C	AGND
X10-18C	-5VS
X10-19C	+5VS
X10-20C	+3V3
X10-21C	+5VD
X10-22C	
X10-23C	AGND
X10-24C	
X10-25C	
X10-26C	
X10-27C	
X10-28C	
X10-29C	
X10-30C	
X10-31C	
X10-32C	
X10-33C	
X10-34C	AGND
X10-35C	AGND
X10-36C	AGND
X10-37C	
X10-38C	
X10-39C	-80V
X10-40C	-80V

X10-1D	+BATT
X10-2D	+BATT
X10-3D	+BATT
X10-4D	+BATT
X10-5D	+BATT
X10-6D	+BATT
X10-7D	+BATT
X10-8D	+BATT
X10-9D	+BATT
X10-10D	+BATT
X10-11D	
X10-12D	
X10-13D	
X10-14D	
X10-15D	
X10-16D	
X10-17D	AGND
X10-18D	-5VS
X10-19D	+5VS
X10-20D	+3V3
X10-21D	+5VD
X10-22D	
X10-23D	AGND
X10-24D	
X10-25D	EXTIN_2N
X10-26D	EXTIN_2P
X10-27D	EXTIN_1N
X10-28D	EXTIN_1P
X10-29D	EXTIN_0N
X10-30D	EXTIN_0P
X10-31D	EXTIN_CLKN
X10-32D	EXTIN_CLKP
X10-33D	
X10-34D	HOUSING
X10-35D	HOUSING
X10-36D	HOUSING
X10-37D	
X10-38D	
X10-39D	
X10-40D	

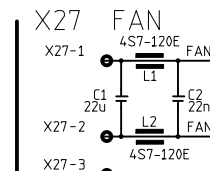
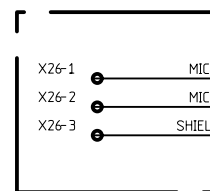
X40 FRONT

X40-1A	AGND
X40-2A	AGND
X40-3A	AGND
X40-4A	TEST-RET
X40-5A	-5VS
X40-6A	AGND
X40-7A	+5VS
X40-8A	AGND
X40-9A	+12V
X40-10A	+18V
X40-11A	+28V
X40-12A	AGND
X40-13A	+5VD
X40-14A	SDA-E
X40-15A	AGND
X40-16A	SHREF1
X40-17A	SHUTSENSE2
X40-18A	AGND
X40-19A	+BATT
X40-20A	AGND
X40-21A	FSYNCFR+
X40-22A	AGND
X40-23A	74MHZFR+
X40-24A	AGND
X40-25A	+3V3
X40-26A	AGND
X40-27A	PELTIER+
X40-28A	AGND
X40-29A	MOT-0
X40-30A	MOT-2

X40-1B	VBLSHR
X40-2B	VBLSHR
X40-3B	VBLSSHE
X40-4B	TEST
X40-5B	-5VS
X40-6B	AGND
X40-7B	+5VS
X40-8B	AGND
X40-9B	+12V
X40-10B	+18V
X40-11B	+28V
X40-12B	AGND
X40-13B	+5VD
X40-14B	SCL-E
X40-15B	INTN-E
X40-16B	SHREF2
X40-17B	SHSENSE
X40-18B	AGND
X40-19B	AGND
X40-20B	AGND
X40-21B	FSYNCFR+
X40-22B	AGND
X40-23B	74MHZFR+
X40-24B	AGND
X40-25B	+3V3
X40-26B	AGND
X40-27B	PELTIER-
X40-28B	AGND
X40-29B	MOT-1
X40-30B	MOT-3



General



X23 DVP

X23 OTH-060-01-X-D-A	
1	EXT_CLKP
3	EXT_CLKN
5	
7	EXT_1P
9	EXT_1N
11	
13	L3_2P
15	L3_2N
17	
19	L3_0P
21	L3_0N
23	
25	L2_2P
27	L2_2N
29	
31	L2_1P
33	L2_1N
35	
37	L2_0P
39	L2_0N
41	
43	L2_CLKP
45	L2_CLKN
47	
49	
51	CLKDVPOUT+
53	CLKDVPOUT-
55	
57	FSYNCDVP+
59	FSYNCDVP-
2	EXT_0P
4	EXT_0N
6	
8	EXT_2P
10	EXT_2N
12	
14	L3_1P
16	L3_1N
18	
20	L3_CLKP
22	L3_CLKN
24	
26	L1_2P
28	L1_2N
30	
32	L1_1P
34	L1_1N
36	
38	L1_0P
40	L1_0N
42	
44	L1_CLKP
46	L1_CLKN
48	
50	
52	74MHZDVP+
54	74MHZDVP-
56	
58	SPARE1
60	SPARE2
61	AGND
62	AGND
63	AGND
64	AGND

X23 OTH-060-01-X-D-A	
65	ADVVID
67	ADVVIDR
69	BS-AWRITE
71	BSTRSTN
73	BS-TMS
75	BST-TDD
77	+5VD
79	+5VD
81	+5VD
83	+5VS
85	+5VS
87	-5VS
89	-5VS
91	SPIC55
93	SPINTN
95	SPISDO
97	ZOOMFLW
99	IRISFOLL
101	SDA-F
103	INTN-F
105	SDA-G
107	SDA-D
109	INTN-D
111	+BATT
113	+BATT
115	+BATT
117	+BATT
119	+BATT
121	+BATT
123	+BATT
66	TEST
68	TEST-RET
70	BS-PRGN
72	RESETN
74	BS-TCK
76	BS-TDV
78	BS-AGND
80	+3V3
82	+3V3
84	+3V3
86	+3V3
88	+3V3
90	+3V3
92	SPIC54
94	SPISCK
96	SPISDI
98	FOCFOLLOW
100	IRISCONT
102	SCL-F
104	INTN-G
106	SCL-G
108	SCL-D
110	SPIC53
112	AGND
114	
116	-80V
118	-80V
120	-80V
122	-80V
124	AGND
125	AGND
126	AGND
127	AGND
128	AGND

X20

X20-1A	SCLKN
X20-2A	AGND
X20-3A	FSYNCDVP+
X20-4A	AGND
X20-5A	74MHZDVP+
X20-6A	AGND
X20-7A	74MHZFR+
X20-8A	
X20-9A	SCL-F
X20-10A	FSYNCFR+
X20-11A	AGND
X20-12A	CLKDVPOUT+
X20-13A	PIP
X20-14A	WP2
X20-15A	BLANK
X20-16A	H
X20-17A	FRARESET
X20-18A	AGND
X20-19A	FAN+
X20-20A	FAN-
X20-21A	BS-TCK
X20-22A	BS-TDB
X20-23A	BS-PRGN
X20-24A	-5VS
X20-25A	AGND
X20-26A	AGND
X20-27A	+5VS
X20-28A	+3V3
X20-29A	AGND
X20-30A	AGND
X20-31A	+5VD
X20-32A	STRAL
X20-33A	EXTIN_2N
X20-34A	EXTIN_1N
X20-35A	EXTIN_0N
X20-36A	EXTIN_CLKP
X20-37A	EXT_2N
X20-38A	EXT_1N
X20-39A	EXT_0N
X20-40A	EXT_CLKN
X20-41A	
X20-42A	
X20-43A	EXTVORT
X20-44A	AGND
X20-45A	EXTHD-RET
X20-46A	AGND
X20-47A	AGND
X20-48A	
X20-49A	
X20-50A	

SYNC MON

X20-1B	SCLK
X20-2B	AGND
X20-3B	FSYNCDVP+
X20-4B	AGND
X20-5B	74MHZDVP+
X20-6B	AGND
X20-7B	74MHZFR+
X20-8B	INTN-F
X20-9B	SDA-F
X20-10B	FSYNCFR+
X20-11B	AGND
X20-12B	CLKDVPOUT+
X20-13B	SPARE1
X20-14B	WP1
X20-15B	SYNC
X20-16B	V
X20-17B	HLOCK
X20-18B	SPARE2
X20-19B	BS-AWRITE
X20-20B	BSTRSTN
X20-21B	BS-TMS
X20-22B	BST-TDD
X20-23B	BS-AGND
X20-24B	-5VS
X20-25B	AGND
X20-26B	AGND
X20-27B	+5VS
X20-28B	+3V3
X20-29B	AGND
X20-30B	AGND
X20-31B	+5VD
X20-32B	
X20-33B	EXTIN_2P
X20-34B	EXTIN_1P
X20-35B	EXTIN_0P
X20-36B	EXTIN_CLKP
X20-37B	EXT_2P
X20-38B	EXT_1P
X20-39B	EXT_0P
X20-40B	EXT_CLKP
X20-41B	
X20-42B	
X20-43B	EXTVD
X20-44B	AGND
X20-45B	EXTHD
X20-46B	AGND
X20-47B	AGND
X20-48B	
X20-49B	
X20-50B	

X21

X21-1A	LONATAN
X21-2A	
X21-3A	SPIC55
X21-4A	SPIINTN
X21-5A	SPISDO
X21-6A	
X21-7A	SCL-G
X21-8A	INTN-G
X21-9A	SDA-G
X21-10A	SCL-E
X21-11A	INTN-E
X21-12A	SCL-D
X21-13A	SCL-C
X21-14A	INTN-C
X21-15A	SCL-B
X21-16A	V
X21-17A	
X21-18A	BS-TCK
X21-19A	BS-TDA
X21-20A	
X21-21A	
X21-22A	
X21-23A	BS-PRGN
X21-24A	-5VS
X21-25A	AGND
X21-26A	AGND
X21-27A	+5VS
X21-28A	+3V3
X21-29A	AGND
X21-30A	AGND
X21-31A	+5VD
X21-32A	RESETN
X21-33A	ADPTID3
X21-34A	ADPTID1
X21-35A	DIGIPOT+
X21-36A	AGND
X21-37A	IRRRET
X21-38A	AGND
X21-39A	DTR
X21-40A	RTS
X21-41A	RSD
X21-42A	
X21-43A	AGND
X21-44A	AUDIND
X21-45A	ABSENSE
X21-46A	BATTSENS
X21-47A	AGND
X21-48A	VBLSHG
X21-49A	
X21-50A	+BATT

DATABRD

X21-1B	LONDATA
X21-2B	SPIC53
X21-3B	SPIC54
X21-4B	SPISCK
X21-5B	SPISDI
X21-6B	
X21-7B	SDA-G
X21-8B	INTN-F
X21-9B	SDA-F
X21-10B	SDA-E
X21-11B	INTN-D
X21-12B	SDA-D
X21-13B	SDA-C
X21-14B	INTN-B
X21-15B	SDA-B
X21-16B	H
X21-17B	BSTRSTN
X21-18B	BS-TMS
X21-19B	BS-TDB
X21-20B	
X21-21B	
X21-22B	
X21-23B	BS-AWRITE
X21-24B	-5VS
X21-25B	AGND
X21-26B	AGND
X21-27B	+5VS
X21-28B	+3V3
X21-29B	AGND
X21-30B	AGND
X21-31B	+5VD
X21-32B	STRAL
X21-33B	ADPTID2
X21-34B	ADPTID0
X21-35B	DIGIPOT+
X21-36B	AGND
X21-37B	IRRX
X21-38B	DSP
X21-39B	SPARK
X21-40B	CTX
X21-41B	TXT
X21-42B	
X21-43B	IRISCON
X21-44B	IRISFOLLO
X21-45B	FOLCFOLLO
X21-46B	ZOOMFLH
X21-47B	VBLSHSH
X21-48B	VBLSHSH
X21-49B	
X21-50B	+BAT