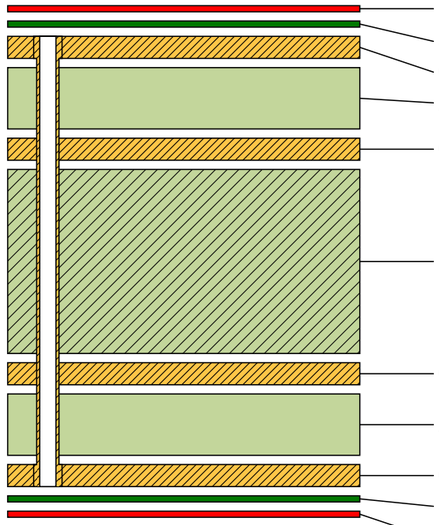
Transmission Line Structure Table

Impedance Id	Transmission Line	Target Impedance	Calculated Impedance	Trace layer	Wide Trace Width	Narrow Trace Width	Gap	Reference layers	Substack	Clearance	Target Tolerance
1	Edge-Coupled Coated Microstrip	90	90.00	Top Layer	0.20mm	0.20mm	0.25mm	Ground 1	Board Layer Stack	0.13mm	10%
2	Edge-Coupled Coated Microstrip	90	90.00	Bottom Layer	0.20mm	0.20mm	0.25mm	Ground 2	Board Layer Stack	0.13mm	10%

NOTES (Unless otherwise specified)

PCB MATERIAL	**FR4 or similar**
SOLDER	**ENIG per IPC-4552**
WASHABLE	**YES**
COPPER WEIGHT FOR OUTER LAYERS	**1oz**
PCB PLATING	**ENIG per IPC-4552**
VIA SIZE	**See Drill Table**
VIA IN PAD	**No**
VIA FILL	**No**
VIA TENTING	**Both Sides**
SUPPLIER DATE CODE FORMAT	**YY/MM**
SOLDER MASK COLOR	**GRAY**
SILK SCREEN COLOR	**WHITE**
ACCEPTANCE	**IPC-A-600 Class II**
PCB FINISH	**IPC-4552**

Layer Stack Legend



Material	Layer	Thickness	Dielectric Material	Type	Gerber	Dk
	Top Overlay			Legend	GTO	
Surface Material	Top Solder	0.010mm	Solder Resist	Solder Mask	GTS	3.5
Copper	Top Layer	0.036mm		Signal	GTL	
Prepreg		*0.100mm*	*PP-006*	*Dielectric*		*4.1*
CF-004	Ground 1	0.036mm		Signal	G1	
		1.776mm	*FR-4*	*Dielectric*		*4.8*
CF-004	Ground 2	0.036mm		Signal	G2	
Prepreg		*0.100mm*	*PP-006*	*Dielectric*		*4.1*
Copper	Bottom Layer	0.036mm		Signal	GBL	
Surface Material	Bottom Solder	0.010mm	Solder Resist	Solder Mask	GBS	3.5
	Bottom Overlay			Legend	GBO	

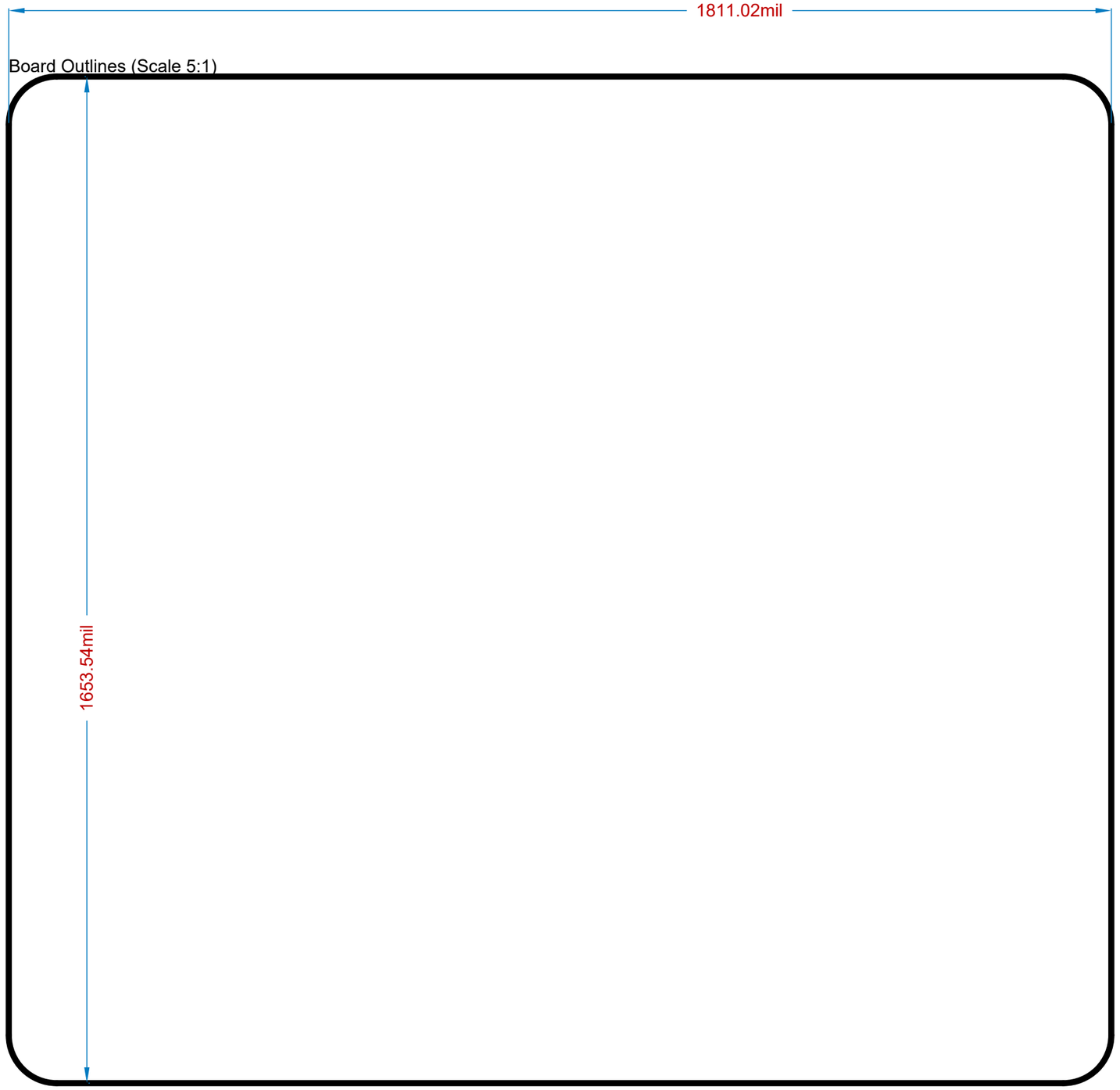
Total thickness: 2.140mm

CONTENTS CONFIDENTIAL AND PROPERTY OF INTERCREATE AND CLIENT

Title	*FABRICATION DRAWING*	
P/N	1	
Name	Segger_TypeC_DebugBoard_v1.PcbD	Rev 1
Engineer	jeffrey@intercreate.io	
Layout	jeffrey@intercreate.io	
Date 12/5/2024	Time 2:13 PM	Sheet 1 of 11

INTERCREATE
2325 3RD ST. SUITE #204
San Francisco, CA 94107

UNLESS OTHERWISE SPECIFIED, UNITS IN 0.001 INCH (MIL)



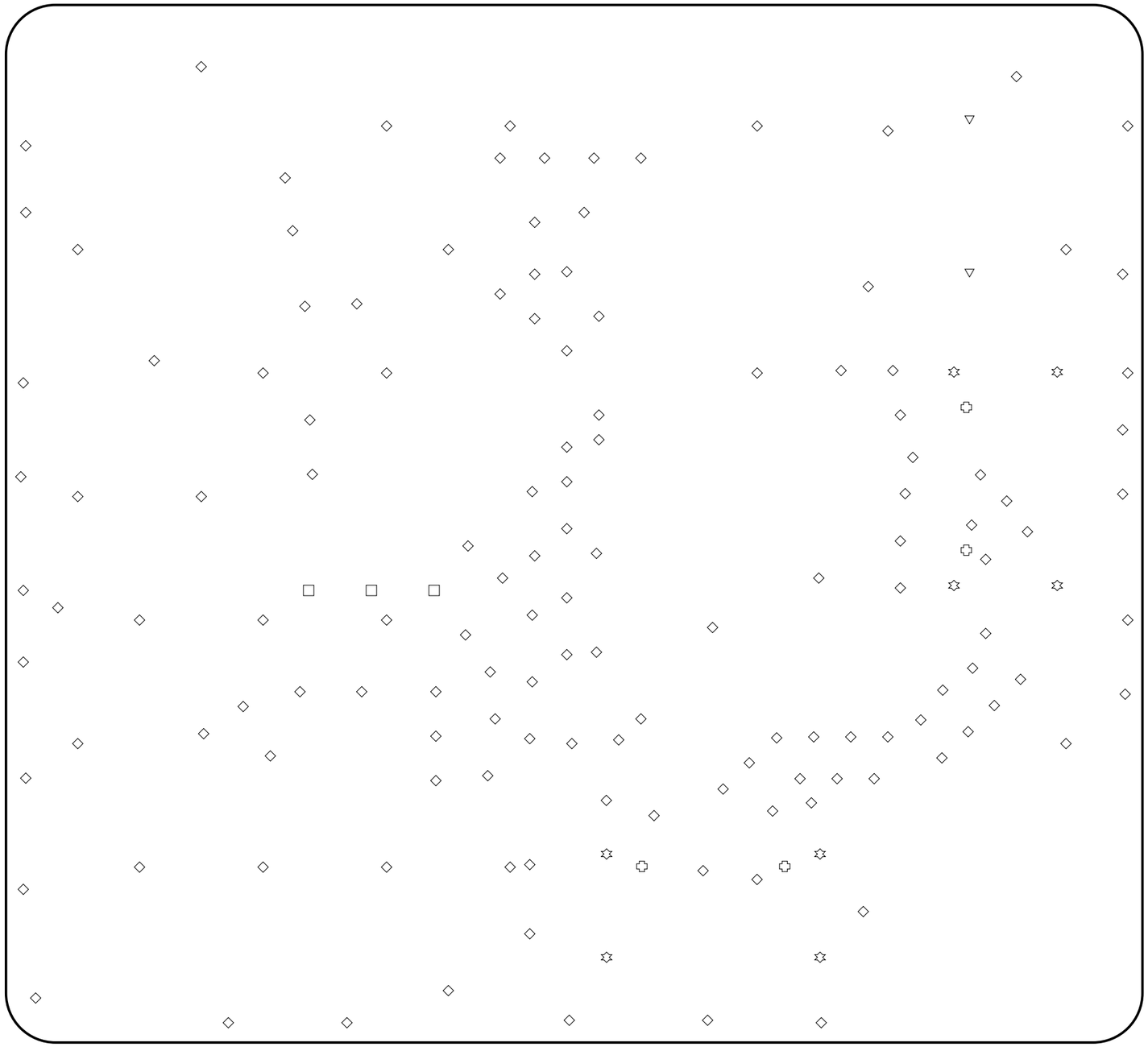
CONTENTS CONFIDENTIAL AND PROPERTY OF INTERCREATE AND CLIENT

Title	*Board Outlines*		
P/N	1		
Name	Segger_TypeC_DebugBoard_v1.PcbD	Rev	1
Engineer	jeffrey@intercreate.io		
Layout	jeffrey@intercreate.io		
Date	12/5/2024 Time 2:13 PM	Sheet	2 of 11

INTERCREATE
2325 3RD ST. SUITE #204
San Francisco, CA 94107

UNLESS OTHERWISE SPECIFIED, UNITS IN 0.001 INCH (MIL)

Drill Drawing View (Scale 5:1)



Drill Table

Symbol	Count	Hole Size	Plated
◇	137	10.000mil	Plated
✡	8	23.622mil	Plated
✣	4	25.591mil	Non-Plated
▽	2	38.976mil	Plated
□	3	43.307mil	Plated
	154 Total		

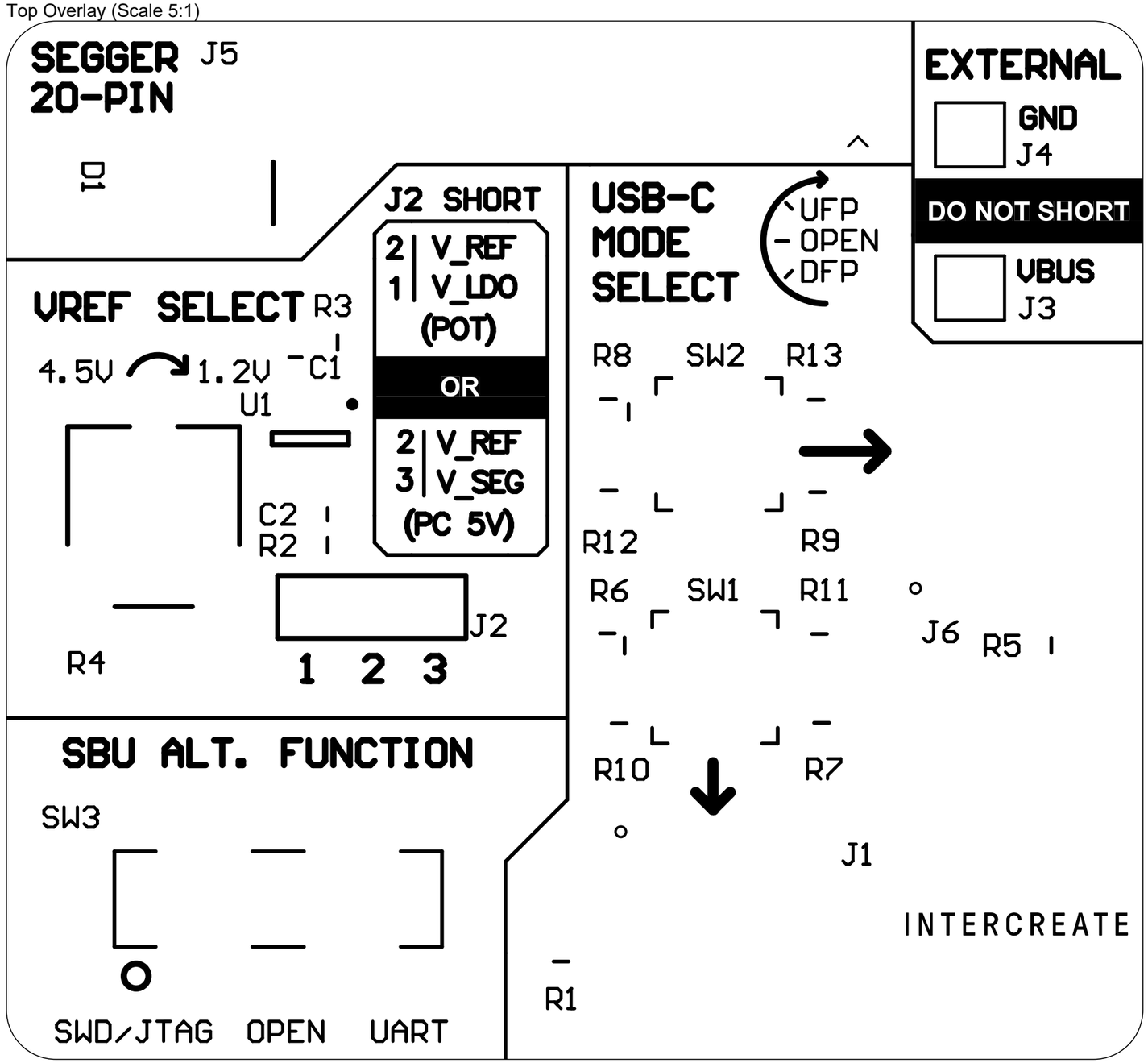
CONTENTS CONFIDENTIAL AND PROPERTY OF INTERCREATE AND CLIENT

Title	*DRILL DRAWING*	
P/N	1	
Name	Segger_TypeC_DebugBoard_v1.PcbD	Rev 1
Engineer	jeffrey@intercreate.io	
Layout	jeffrey@intercreate.io	
Date 12/5/2024	Time 2:13 PM	Sheet 3 of 11

INTERCREATE
2325 3RD ST. SUITE #204
San Francisco, CA 94107

UNLESS OTHERWISE SPECIFIED, UNITS IN 0.001 INCH (MIL)

Top Overlay (Scale 5:1)



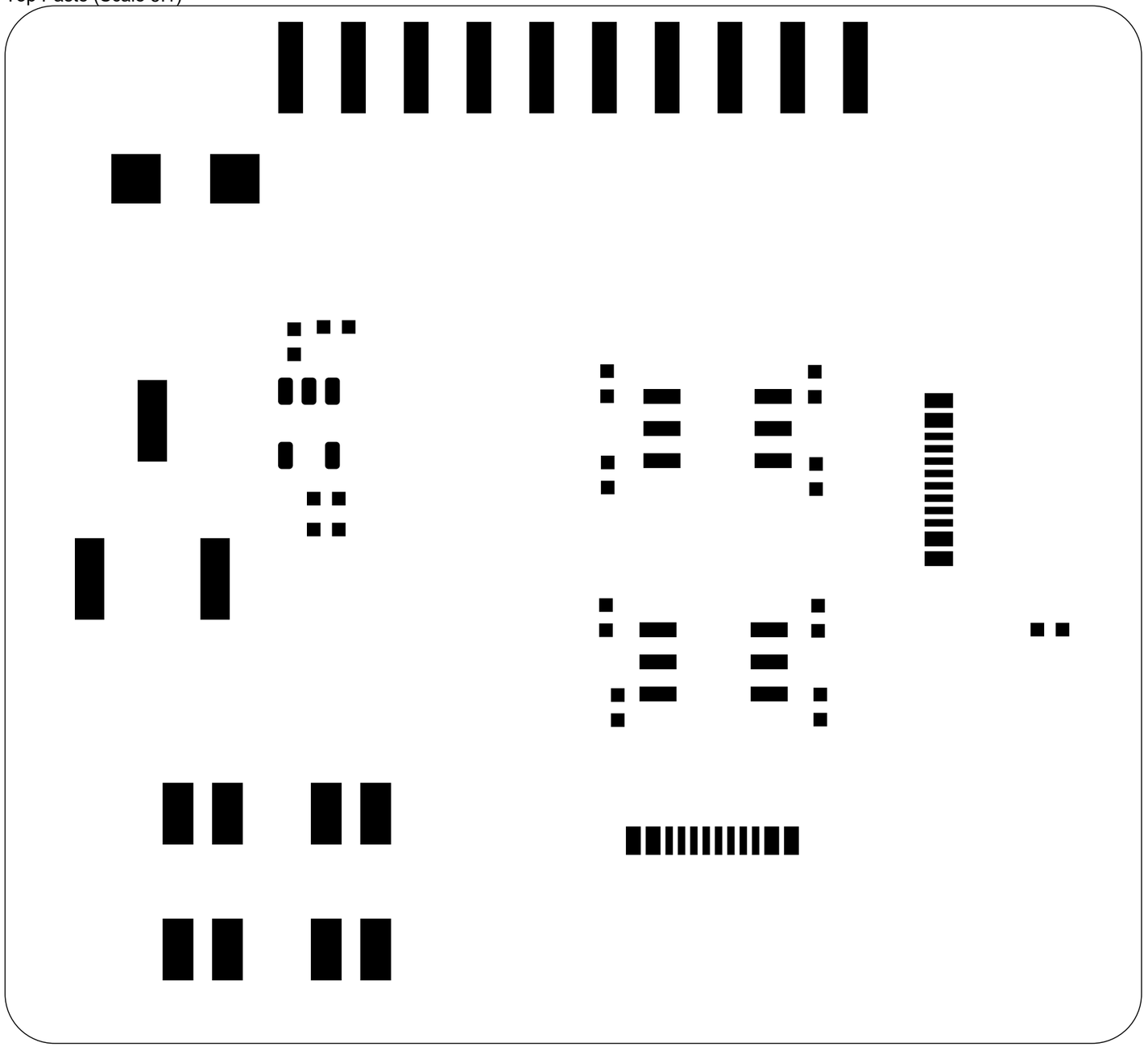
CONTENTS CONFIDENTIAL AND PROPERTY OF INTERCREATE AND CLIENT

Title	*TOP LAYER SILKSCREEN*		
P/N	1		
Name	Segger_TypeC_DebugBoard_v1.PcbD	Rev	1
Engineer	jeffrey@intercreate.io		
Layout	jeffrey@intercreate.io		
Date	12/5/2024 Time 2:13 PM	Sheet	4 of 11

INTERCREATE
2325 3RD ST. SUITE #204
San Francisco, CA 94107

UNLESS OTHERWISE SPECIFIED, UNITS IN 0.001 INCH (MIL)

Top Paste (Scale 5:1)



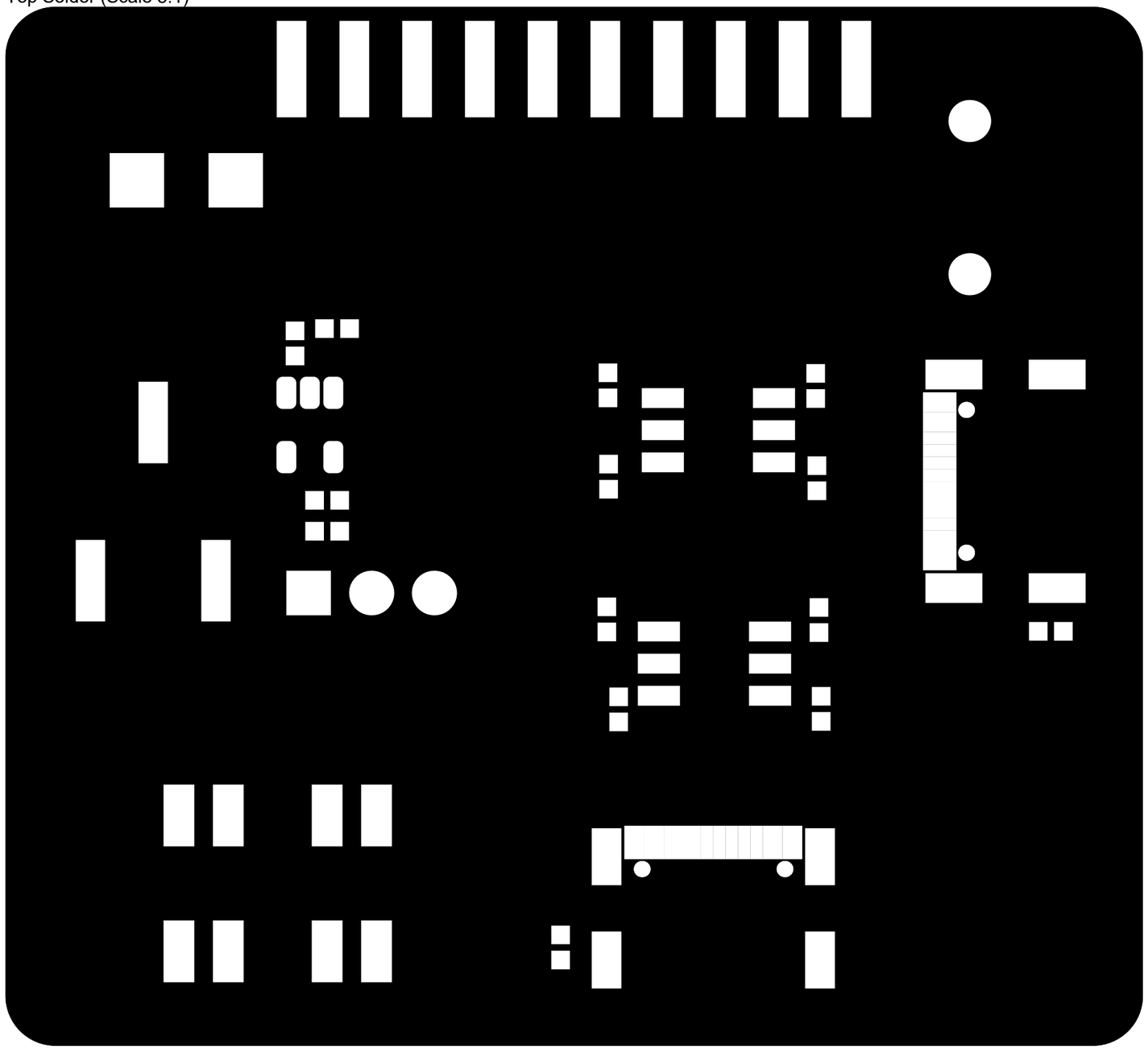
CONTENTS CONFIDENTIAL AND PROPERTY OF INTERCREATE AND CLIENT

Title	*TOP LAYER PASTE*		
P/N	1		
Name	Segger_TypeC_DebugBoard_v1.PcbD	Rev	1
Engineer	jeffrey@intercreate.io		
Layout	jeffrey@intercreate.io		
Date	12/5/2024 Time 2:13 PM	Sheet	5 of 11

INTERCREATE
2325 3RD ST. SUITE #204
San Francisco, CA 94107

UNLESS OTHERWISE SPECIFIED, UNITS IN 0.001 INCH (MIL)

Top Solder (Scale 5:1)



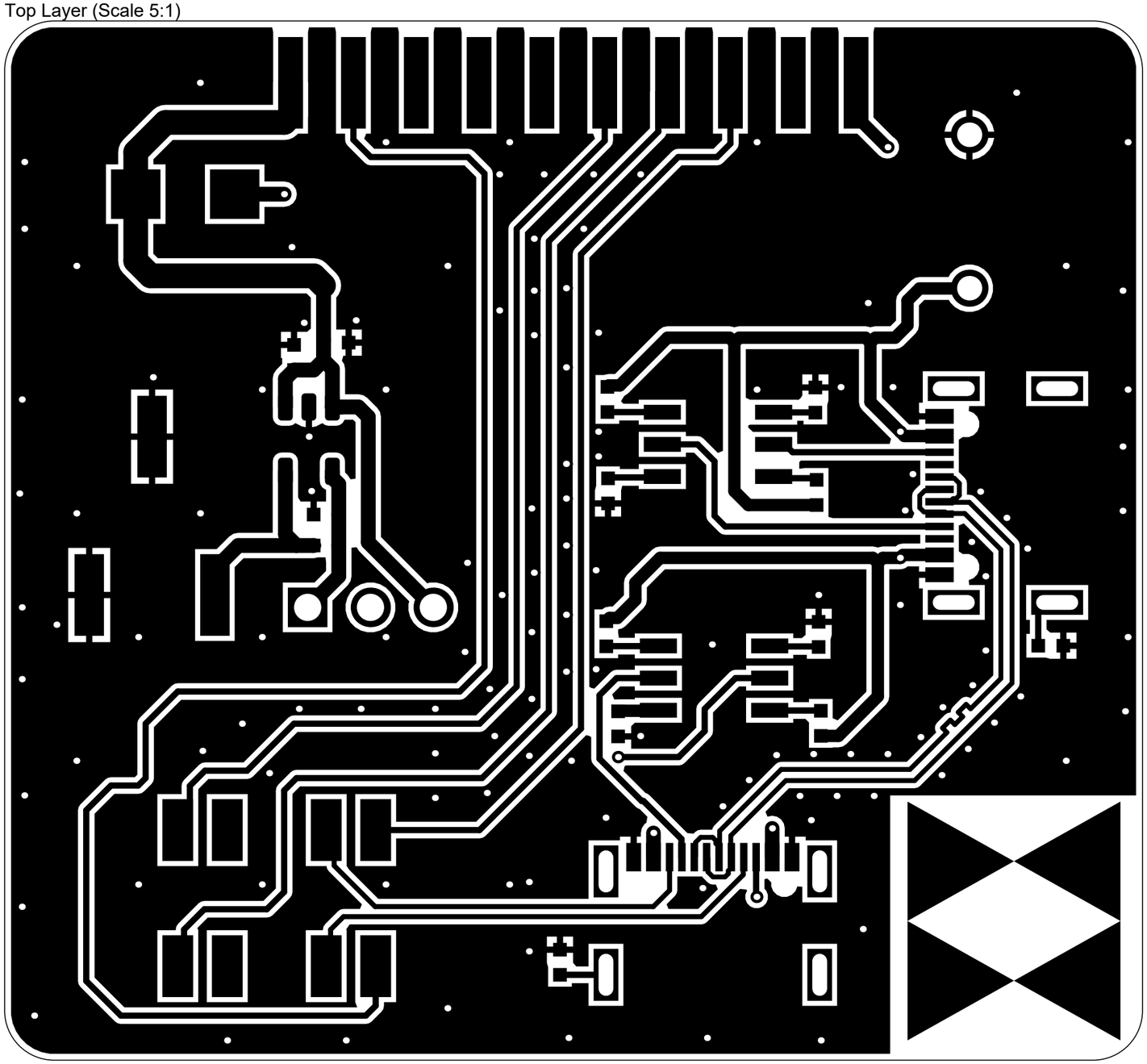
CONTENTS CONFIDENTIAL AND PROPERTY OF INTERCREATE AND CLIENT

Title	*TOP LAYER SOLDERMASK*		
P/N	1		
Name	Segger_TypeC_DebugBoard_v1.PcbD	Rev	1
Engineer	jeffrey@intercreate.io		
Layout	jeffrey@intercreate.io		
Date	12/5/2024 Time 2:13 PM	Sheet	6 of 11

INTERCREATE
2325 3RD ST. SUITE #204
San Francisco, CA 94107

UNLESS OTHERWISE SPECIFIED, UNITS IN 0.001 INCH (MIL)

Top Layer (Scale 5:1)



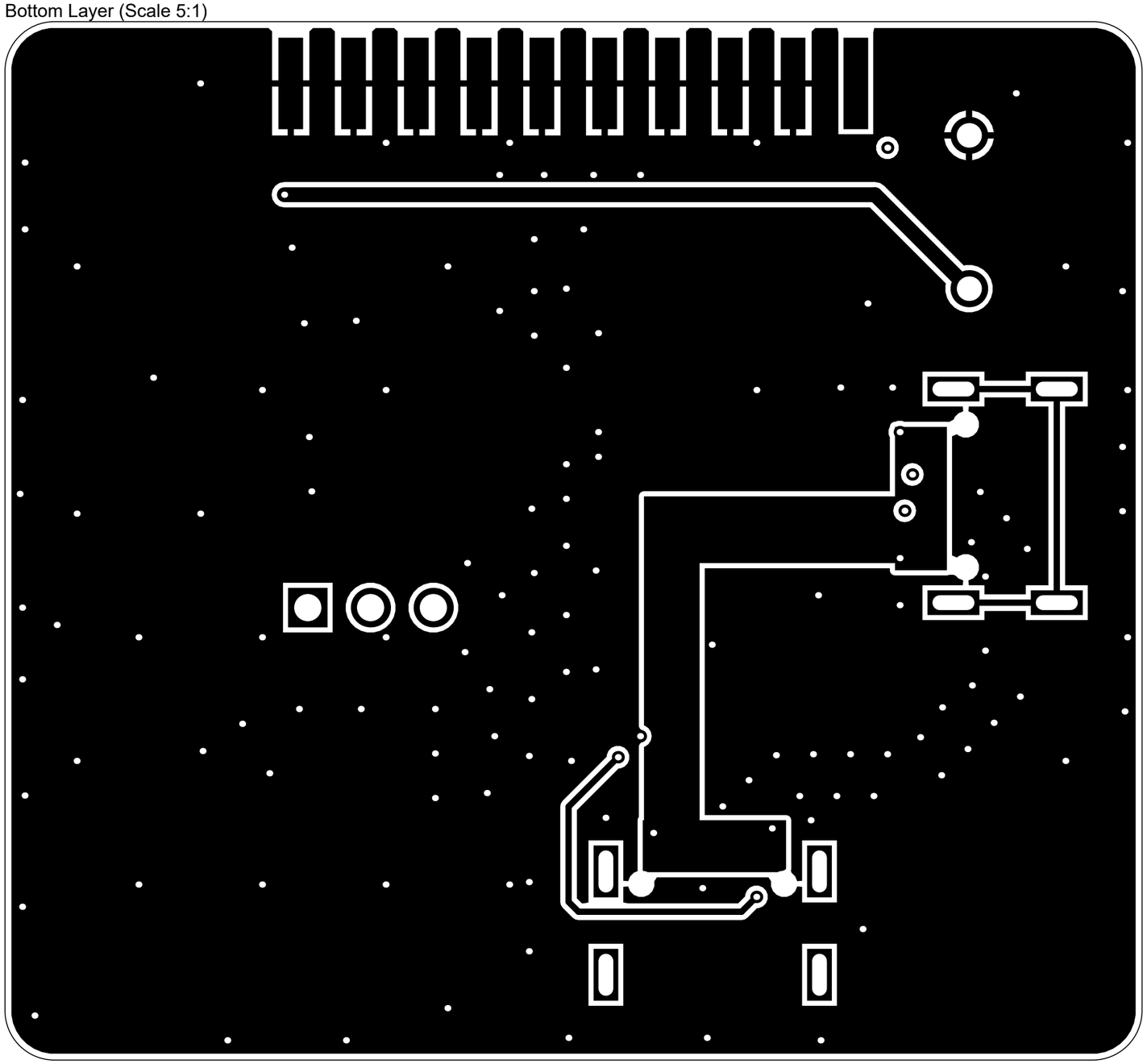
CONTENTS CONFIDENTIAL AND PROPERTY OF INTERCREATE AND CLIENT

Title	*TOP LAYER COPPER*		
P/N	1		
Name	Segger_TypeC_DebugBoard_v1.PcbD	Rev	1
Engineer	jeffrey@intercreate.io		
Layout	jeffrey@intercreate.io		
Date	12/5/2024 Time 2:13 PM	Sheet	7 of 11

INTERCREATE
2325 3RD ST. SUITE #204
San Francisco, CA 94107

UNLESS OTHERWISE SPECIFIED, UNITS IN 0.001 INCH (MIL)

Bottom Layer (Scale 5:1)



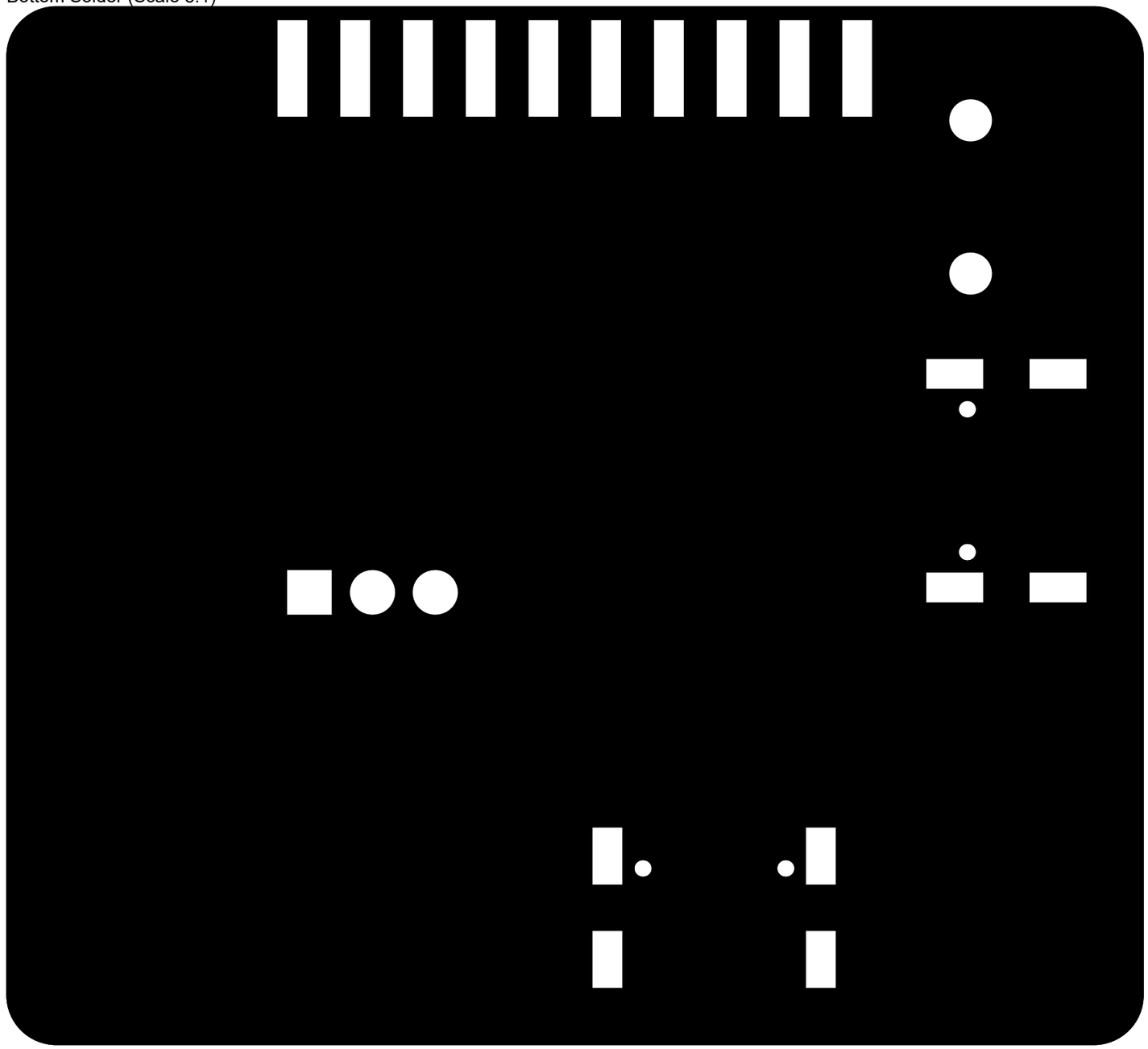
CONTENTS CONFIDENTIAL AND PROPERTY OF INTERCREATE AND CLIENT

Title	*BOT LAYER COPPER*		
P/N	1		
Name	Segger_TypeC_DebugBoard_v1.PcbD	Rev	1
Engineer	jeffrey@intercreate.io		
Layout	jeffrey@intercreate.io		
Date	12/5/2024 Time 2:13 PM	Sheet	8 of 11

INTERCREATE
2325 3RD ST. SUITE #204
San Francisco, CA 94107

UNLESS OTHERWISE SPECIFIED, UNITS IN 0.001 INCH (MIL)

Bottom Solder (Scale 5:1)



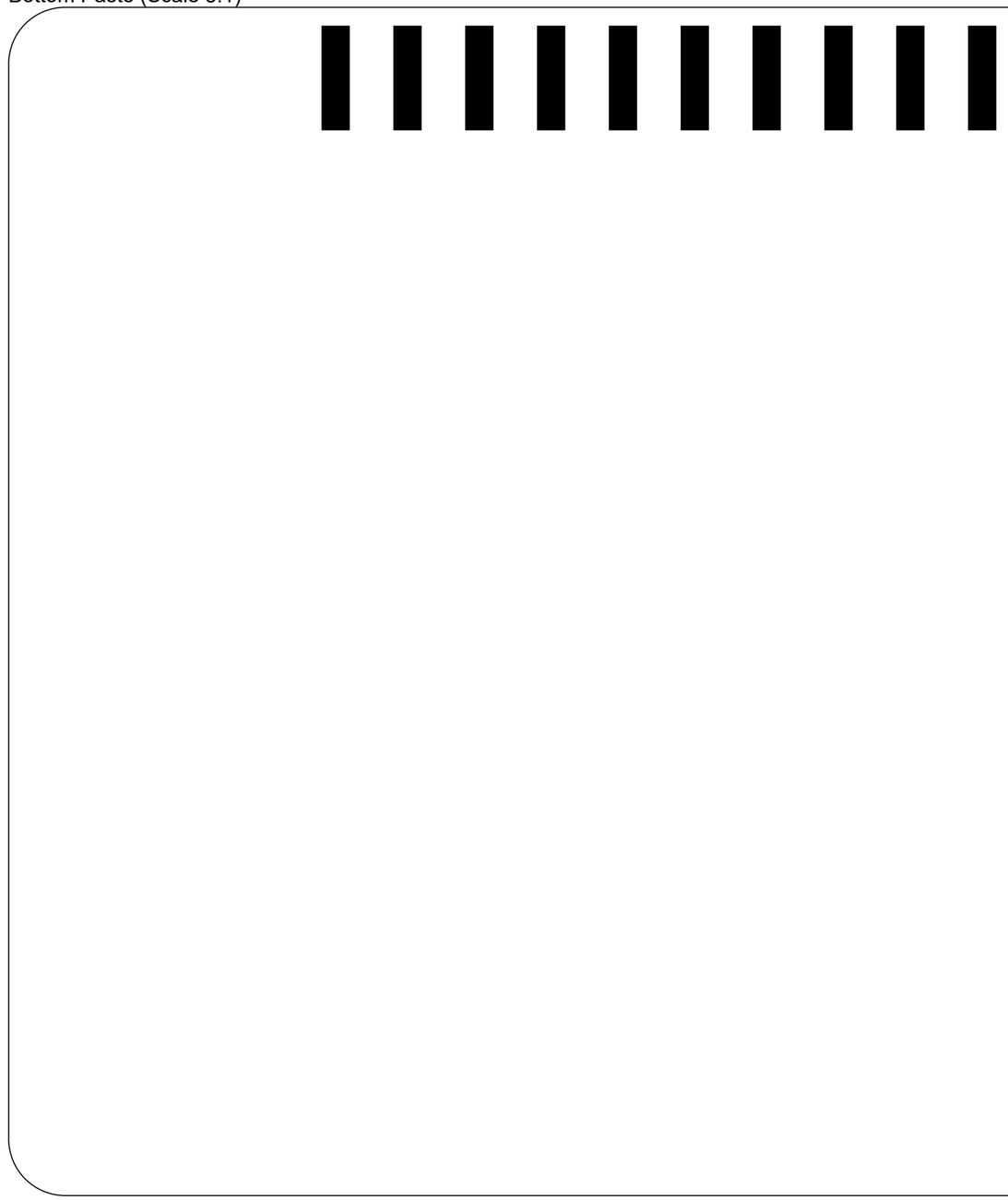
CONTENTS CONFIDENTIAL AND PROPERTY OF INTERCREATE AND CLIENT

Title	*BOT LAYER MASK*		
P/N	1		
Name	Segger_TypeC_DebugBoard_v1.PcbD	Rev	1
Engineer	jeffrey@intercreate.io		
Layout	jeffrey@intercreate.io		
Date	12/5/2024 Time 2:13 PM	Sheet	9 of 11

INTERCREATE
2325 3RD ST. SUITE #204
San Francisco, CA 94107

UNLESS OTHERWISE SPECIFIED, UNITS IN 0.001 INCH (MIL)

Bottom Paste (Scale 5:1)



CONTENTS CONFIDENTIAL AND PROPERTY OF INTERCREATE AND CLIENT

Title	*BOT LAYER PASTE*		
P/N	1		
Name	Segger_TypeC_DebugBoard_v1.PcbD	Rev	1
Engineer	jeffrey@intercreate.io		
Layout	jeffrey@intercreate.io		
Date	12/5/2024 Time 2:13 PM	Sheet	10 of 11

UNLESS OTHERWISE SPECIFIED, UNITS IN 0.001 INCH (MIL)

INTERCREATE
2325 3RD ST. SUITE #204
San Francisco, CA 94107

Bottom Overlay (Scale 5:1)

CONTENTS CONFIDENTIAL AND PROPERTY OF INTERCREATE AND CLIENT

Title	*BOT LAYER SILKSCREEN*		
P/N	1		
Name	Segger_TypeC_DebugBoard_v1.PcbD	Rev	1
Engineer	jeffrey@intercreate.io		
Layout	jeffrey@intercreate.io		
Date	12/5/2024 Time 2:13 PM	Sheet	11 of 11

INTERCREATE
2325 3RD ST. SUITE #204
San Francisco, CA 94107

UNLESS OTHERWISE SPECIFIED, UNITS IN 0.001 INCH (MIL)