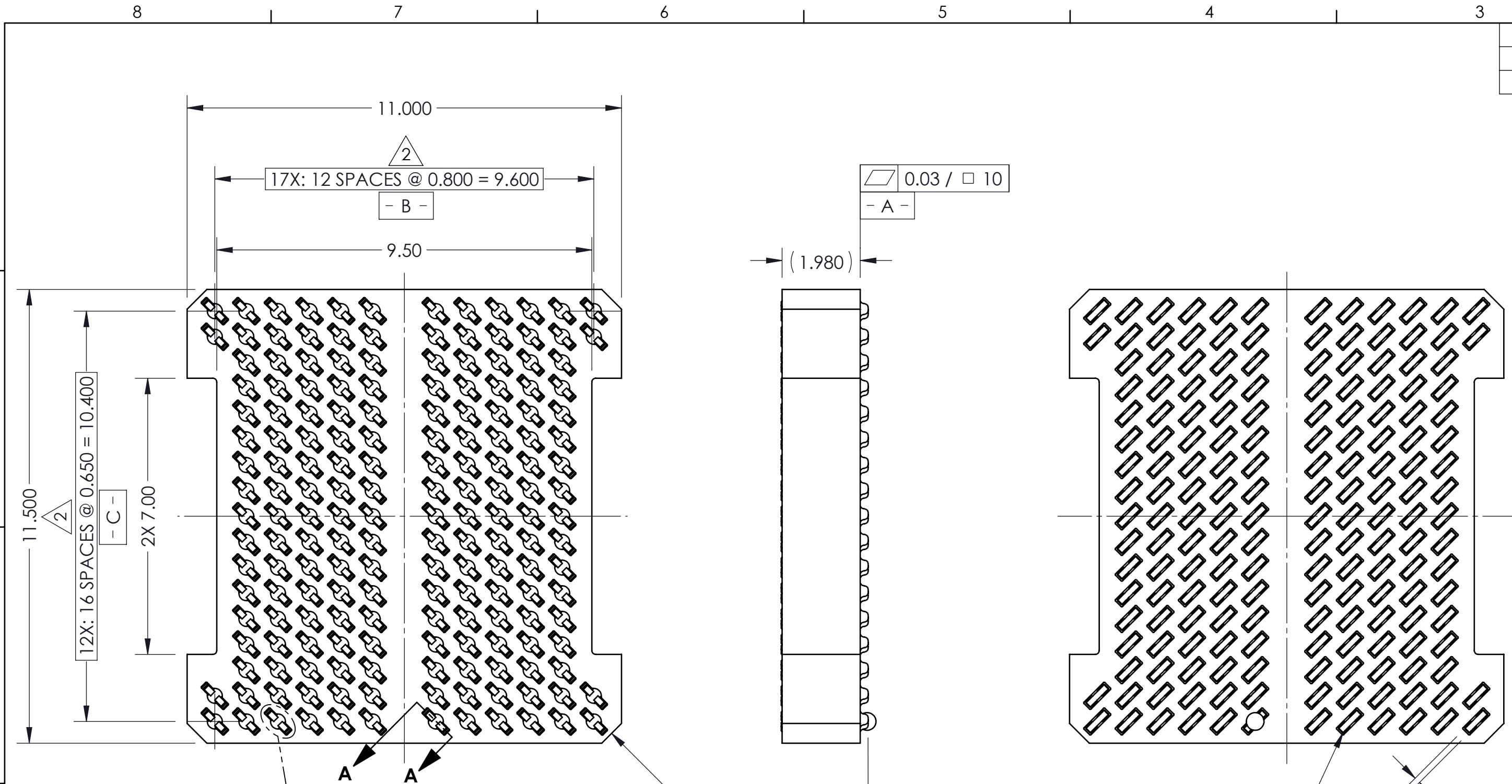
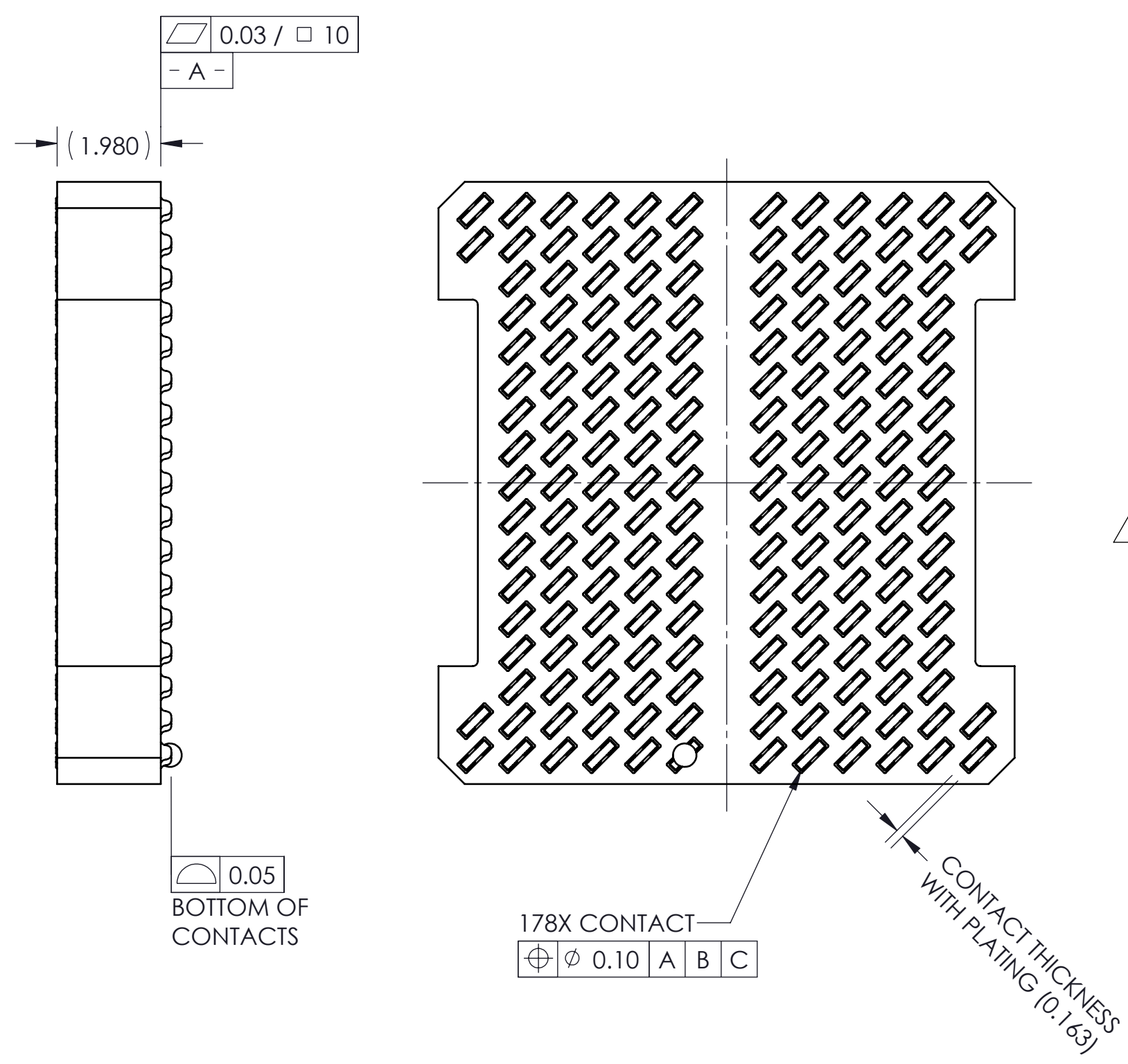


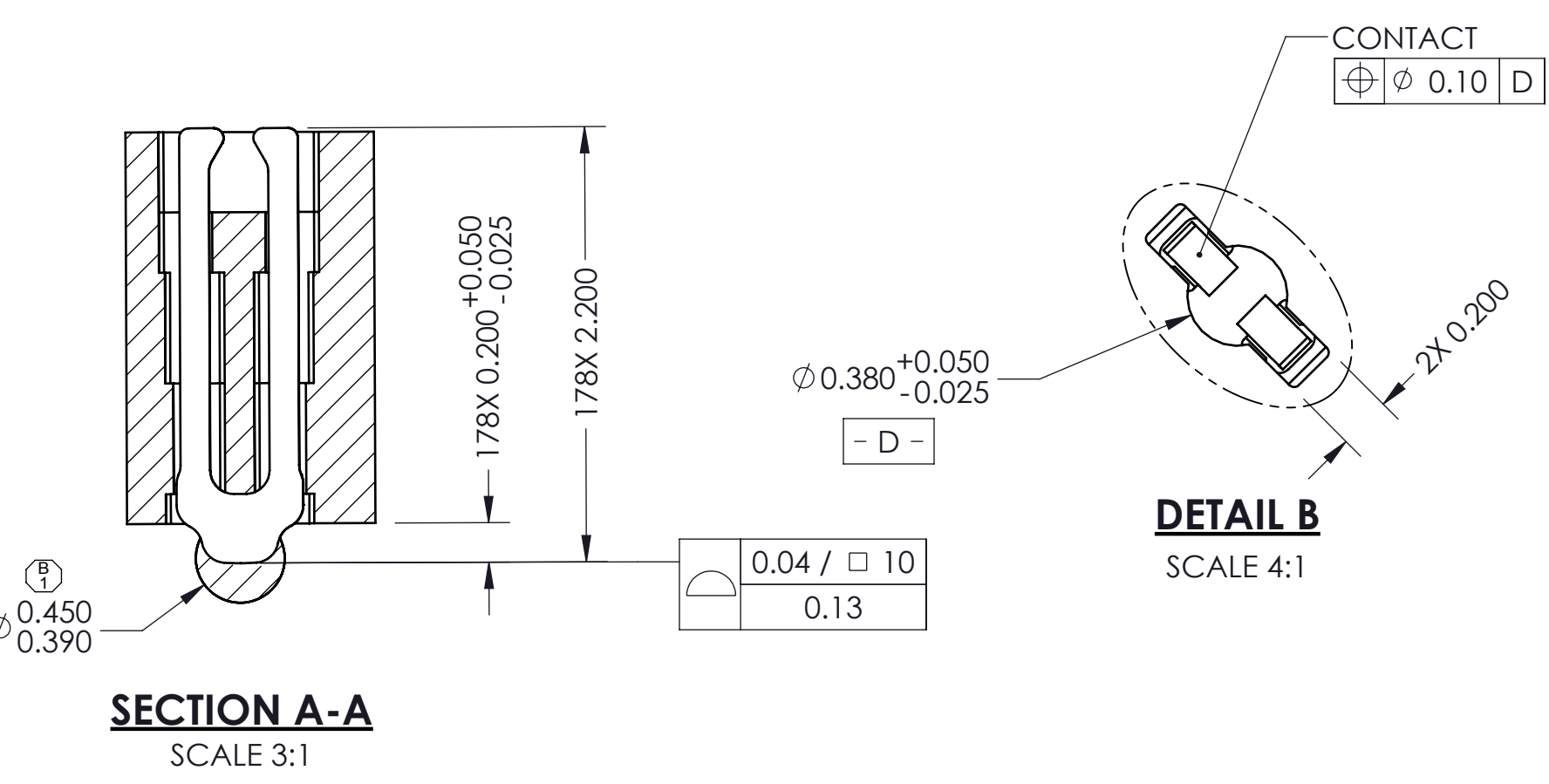
REV	ECO	BY	DESCRIPTION	APV	DATE
A	31618	RS	Initial Design	NSJ	03/18/15
B	31857	RS	WAS \varnothing 0.350	NSJ	02/22/17



- Notes:
- Footprint part number is 104311-0339.
 - Dimension locates center of contact.
 - Press size: 11.00 x 11.50.
 - Datum **- B -** and **- C -** determined by \varnothing 0.380 opening in corner slots.
 - Unless otherwise noted, all features located \oplus 0.10 A B C.
 - All solder balls are not shown to minimize file size.



Parts List	
Part Number	Description
104801-0006	CS, 178GRY11X11.50-0.80X0.65
103864-0061	PRESS, DEV INS, GRY, 11 X 11.5 (SOLD SEPERATELY)
105900-0004	EXTRACTION TOOL, 4X53 (SOLD SEPERATELY)



UNLESS OTHERWISE SPECIFIED - DIMENSIONS ARE IN MILLIMETERS - DIMS APPLY AFTER PLATING - TOLERANCES UNLESS OTHERWISE NOTED:

ANGLES $\pm 1^\circ$ DECIMALS
X.X ± 0.25
X.XX ± 0.10
X.XXX ± 0.050

LEGEND:
X NOTE CALLOUT
A REVISION CHANGE
X ITEM NUMBER

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CAD GENERATED DRAWING
DO NOT MANUALLY UPDATE

DRAWING APPROVALS

NAME	DATE
R. Sewharack	03/18/15
N. St Jacques	03/18/15

THIRD ANGLE PROJECTION

HSIO TECHNOLOGIES, LLC.
13400 68th AVENUE NORTH
MAPLE GROVE, MINNESOTA 55311
763-447-6260

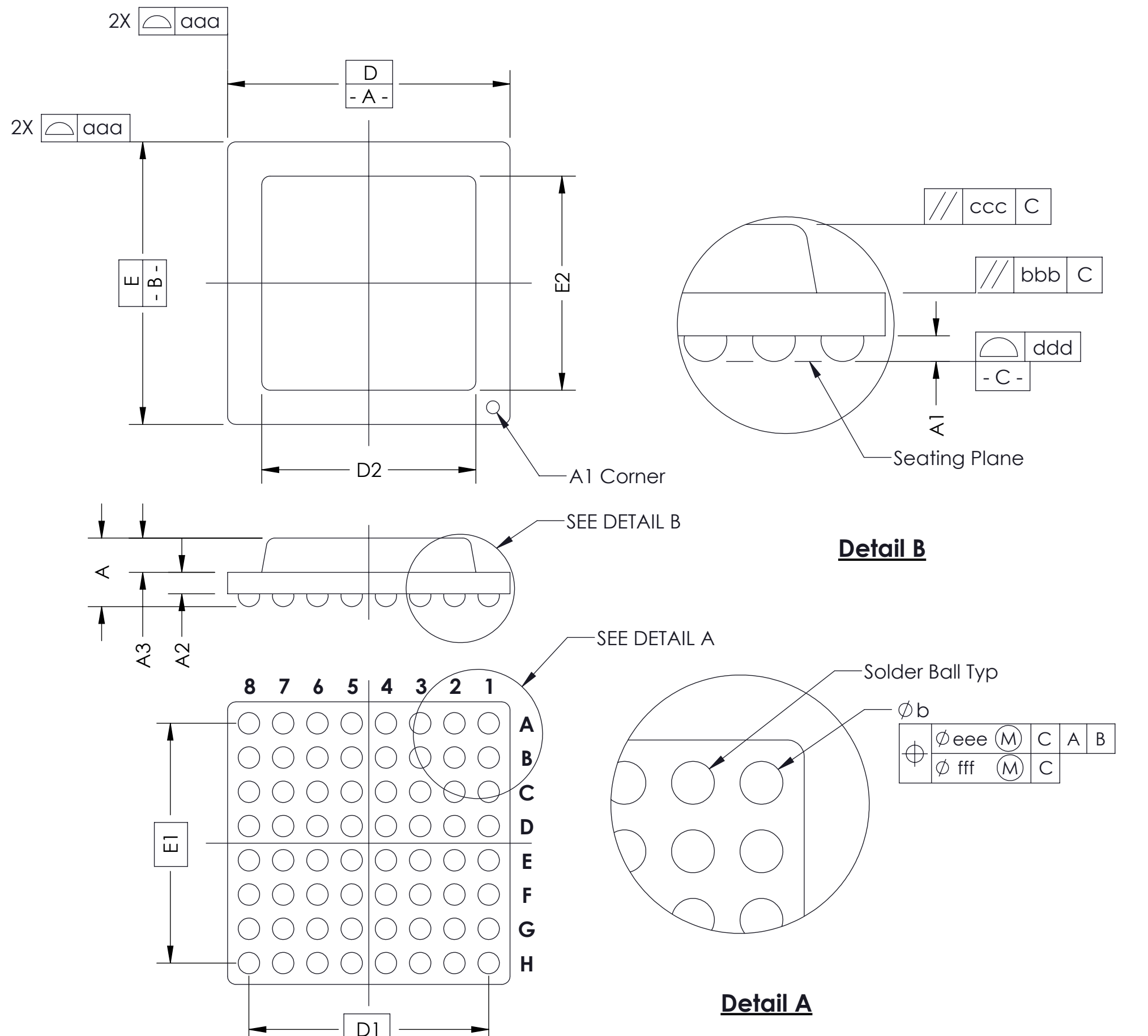
SCKT, 178GRY11X11.5-0.80X0.65, SAC 305

SIZE	CAD FORMAT	DRAWING NO.	REV.
C	SOLIDWORKS	104802-0008	B

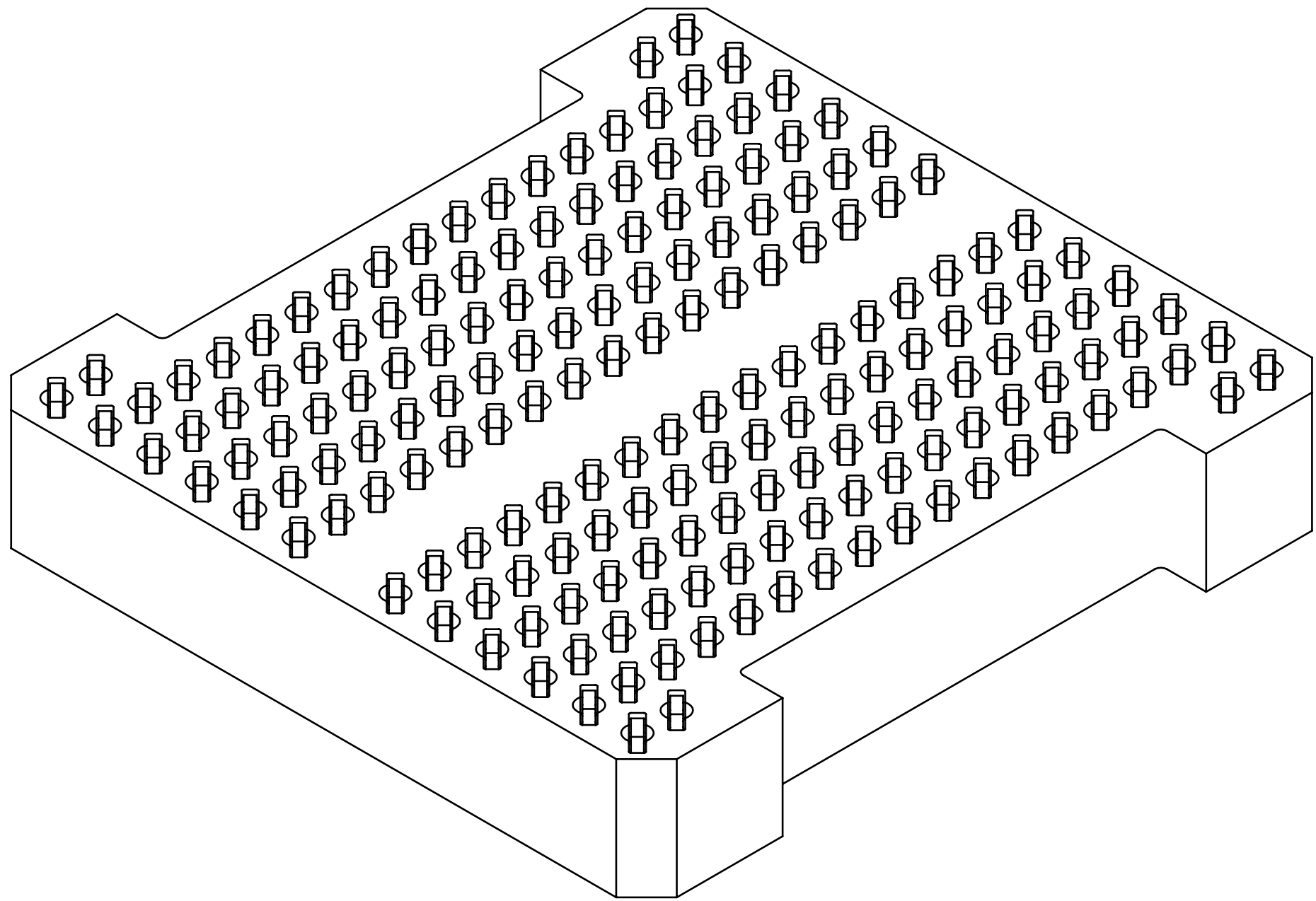
SCALE: SEE BOM MATERIAL: SEE BOM SHEET: 1 of 2

SOCKET FOR DEVICES THAT ARE WITHIN THESE SPECIFICATIONS					
Lead Count	N	178	Package Size	D	11.00
Columns	ND	12		E	11.50
Rows	NE	17	Ball Spacing	D1	9.60
Pitch	e	0.80X0.65		E1	10.40
Ball Size	b	0.30±0.05	Encapsulant/ Top Size	D2	n/a
Total Thickness	A	N/A	Pattern Style	E2	n/a
Ball Height	A1	0.225 Min			Full Grid
Substrate Thickness	A2	N/A	Perimeter Rows		n/a
Top Thickness	A3		Center Array		n/a
Form Tolerances					
Edge	aaa	0.20	Bottom	ddd	0.15
Substrate	bbb	0.20	Position	eee	0.20
Top	ccc	0.20	Position	fff	0.08

All dimensions are in millimeters.
*See footprint specification for pattern details.



Generic Representation with Full Grid Array



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UNLESS OTHERWISE SPECIFIED - DIMENSIONS ARE IN MILLIMETERS - DIMS APPLY AFTER PLATING TOLERANCES UNLESS OTHERWISE NOTED: DECIMALS ANGLES X.X ±0.25 ±1° X.XX ±0.10 X.XXX ±.050			HSIQ TECHNOLOGIES, LLC. 13400 68th AVENUE NORTH MAPLE GROVE, MINNESOTA 55311 763-447-6260		
LEGEND: (X) NOTE CALLOUT (A) REVISION CHANGE (X) ITEM NUMBER			SCKT, 178GRY11X11.5-0.80X0.65, SAC305		
SIZE	CAD FORMAT	DRAWING NO.	REV.		
C	SOLIDWORKS	104802-0008	B		
SCALE	MATERIAL	See Page 1		SHEET 2 of 2	