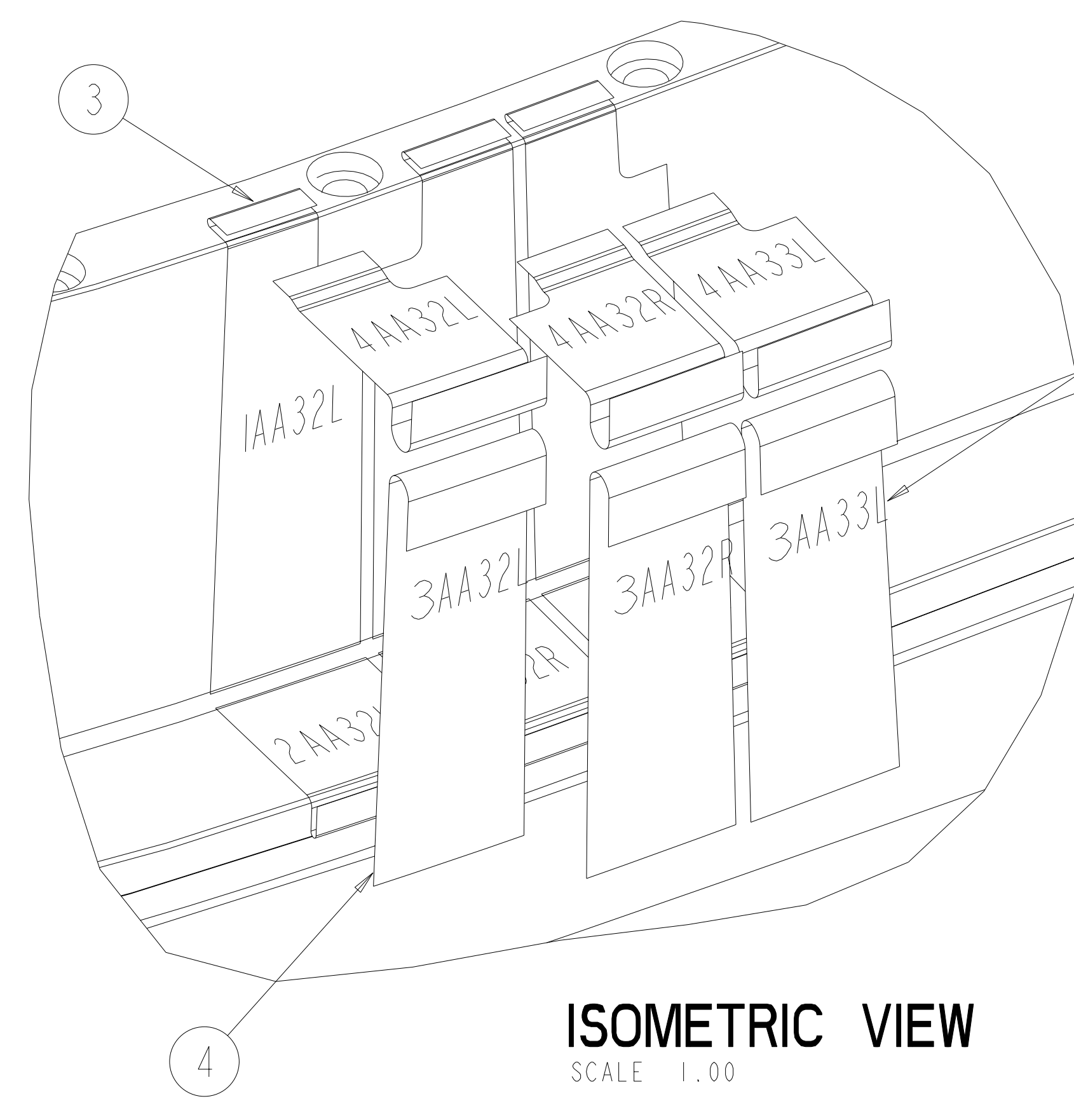
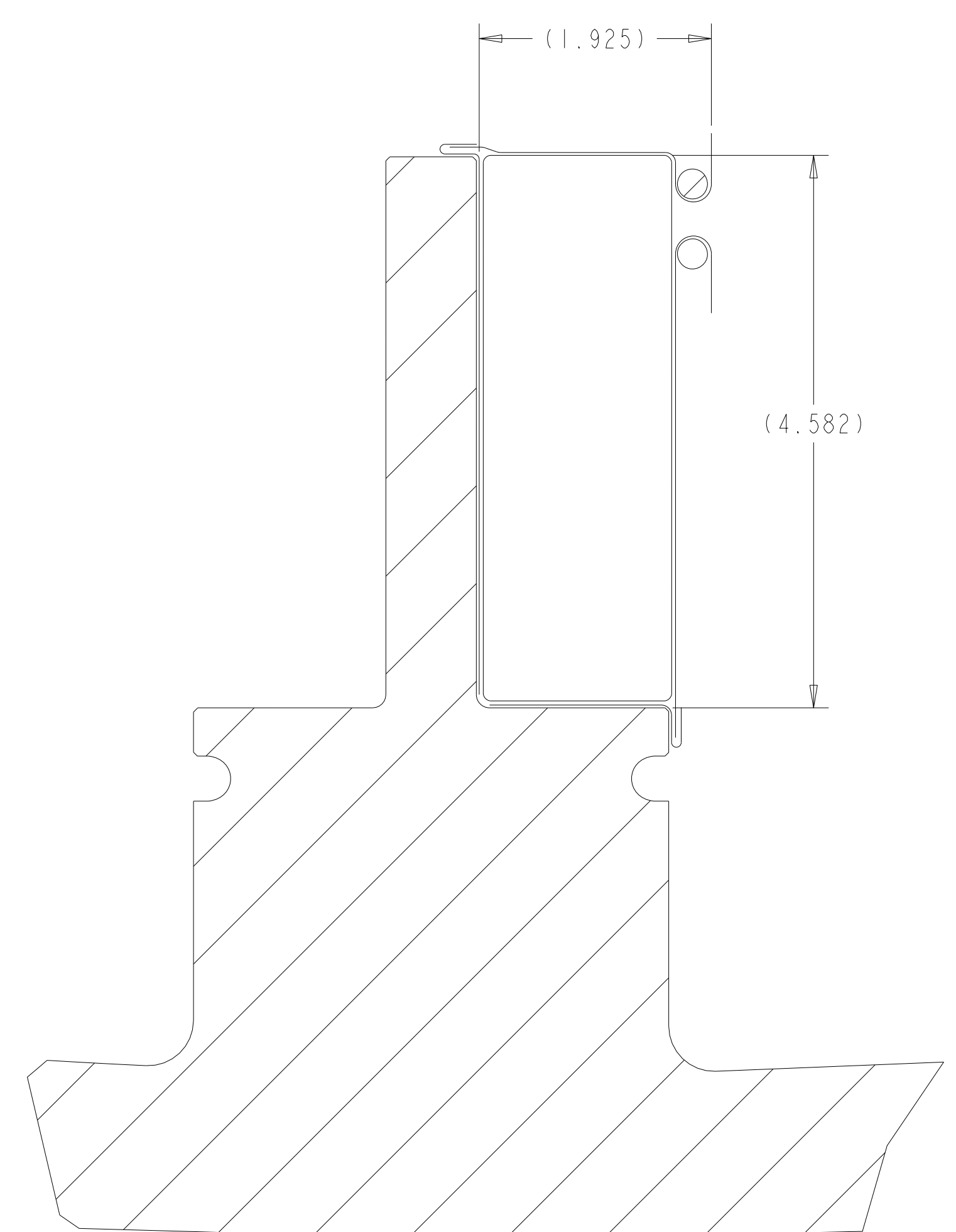
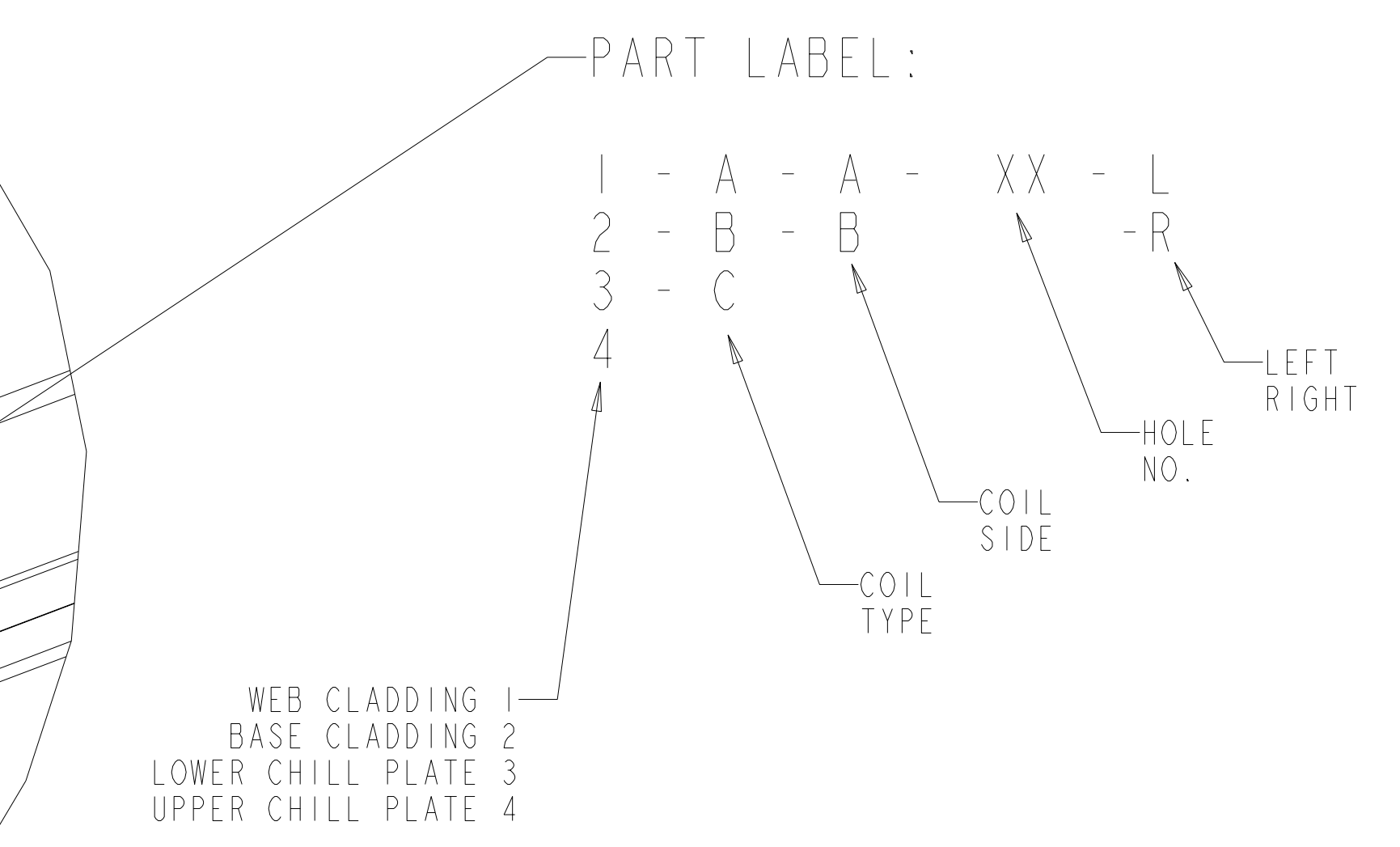


**1** TYPE-B SIDE-A-ASM  
SCALE 0.250

- NOTES:
1. DRAWING PREPARED IN ACCORDANCE WITH ASME Y14.100-2000.
  2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994.
  3. DIMENSIONS ARE IN INCHES.
  4. DRAWING DEPICTS FLAT PATTERN OF FORMED PARTS DEFINED BY PRO/E MODELS SE142B-255.PRT AND SE142B-257.PRT.
  5. PROFILE TOLERANCE OF FLAT PATTERN IS +/- .010 IN.
  6. THICKNESS IS 0.040 +/- .006 IN. PER ASTM B248.
  7. REMOVE ALL BURRS AND SHARP EDGES.
  8. IDENTIFY PARTS WITH LABEL SHOWN BY ETCHING OR PERMANENT MARKER.
  9. PARTS INDICATED SHALL BE NEMA GRADE GIICR MATERIAL.



**ISOMETRIC VIEW**  
SCALE 1.00



**TYPICAL SECTION**  
SCALE 1.00

QTY	PART NO	DESCRIPTION	MATERIAL / SPECIFICATION	UNIT
378	SE142B-257	CHILL PLATES	COPPER, SOFT TEMPER UNS C10100, C10200, C11000 ETP OR NEMA GRADE GIICR AS NOTED	4
386	SE142B-255	CLADDING	COPPER, SOFT TEMPER UNS C10100, C10200, C11000 ETP OR NEMA GRADE GIICR WHERE NOTED	3
1	SE141-115-SIM	TYPE-B MODULAR COIL WINDING FORM		2
AR X	-	TYPE-B SIDE-A CLADDING AND CHILL PLATES		1
SE140-101	CAGE CODE	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

**PARTS LIST**

NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY, COMPLETENESS OR USEFULNESS OF THE INFORMATION OR STATEMENTS CONTAINED IN THESE DRAWINGS, OR THAT THE USE OR DISCLOSURE OF ANY INFORMATION, APPARATUS, METHOD OR PROCESS DISCLOSED IN THESE DRAWINGS MAY NOT INFRINGE PRIVATE RIGHTS OF OTHERS. NO LIABILITY IS ASSUMED WITH RESPECT TO THE USE OF, OR FOR DAMAGES RESULTING FROM THE USE OF, ANY INFORMATION, APPARATUS, METHOD OR PROCESS DISCLOSED IN THESE DRAWINGS. DRAWINGS MADE AVAILABLE FOR INFORMATION TO BIDDER ARE NOT TO BE USED FOR OTHER PURPOSES, AND ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING CONTRACTOR.

**P** THIS DRAWING PRODUCED ON PRO-ENGINEER

2 REVISED PARTS AND DRAWING PER ECN 5140 GLL 7-06 MJC DW		SCALE NOTED		DES D WILLIAMSON 3/06		Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT CONTRACT DE-AC05-00OR22725 UT-BATTELLE, LLC, Oak Ridge, Tennessee	
1 CHANGED TITLE PER ECN-5133 DW 5/06 MJC DW		TOLERANCES UNLESS OTHERWISE SPECIFIED		DRW G LOVETT 3/06		UT-BATTELLE	
REV DESCRIPTION BY DATE CHK DEPT DATE PE REG DATE ORNL DOE DATE		FRACTIONS ±.01		CHK M. COLE 3/06		PROJECT NAME	
		XX DECIMALS ±.01		SECT :		NATIONAL COMPACT STELLARATOR EXPERIMENT	
		XXX DECIMALS ±.005		DEPT :		MODULAR COIL TYPE-B	
		ANGLES ±0°15'		PE D. WILLIAMSON 3/06		SIDE-A CLADDING AND CHILL PLATES	
		BREAK SHARP EDGES OR MAX FINISH .125 UNLESS OTHERWISE SPECIFIED		REG :		FLAT PATTERN LAYOUT	
				PPPL DRFT J. SIEGEL 3/06		VERSION NO. 4	
				DRAWING APPROVALS DATE		PLANT X-10 BLDG 5700 FL 3 SHT 13 OF TYPE S U	
						RELEASE LEVEL WIP	
						SE142B-252	
						REV 2	

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NEXT ASS'Y:

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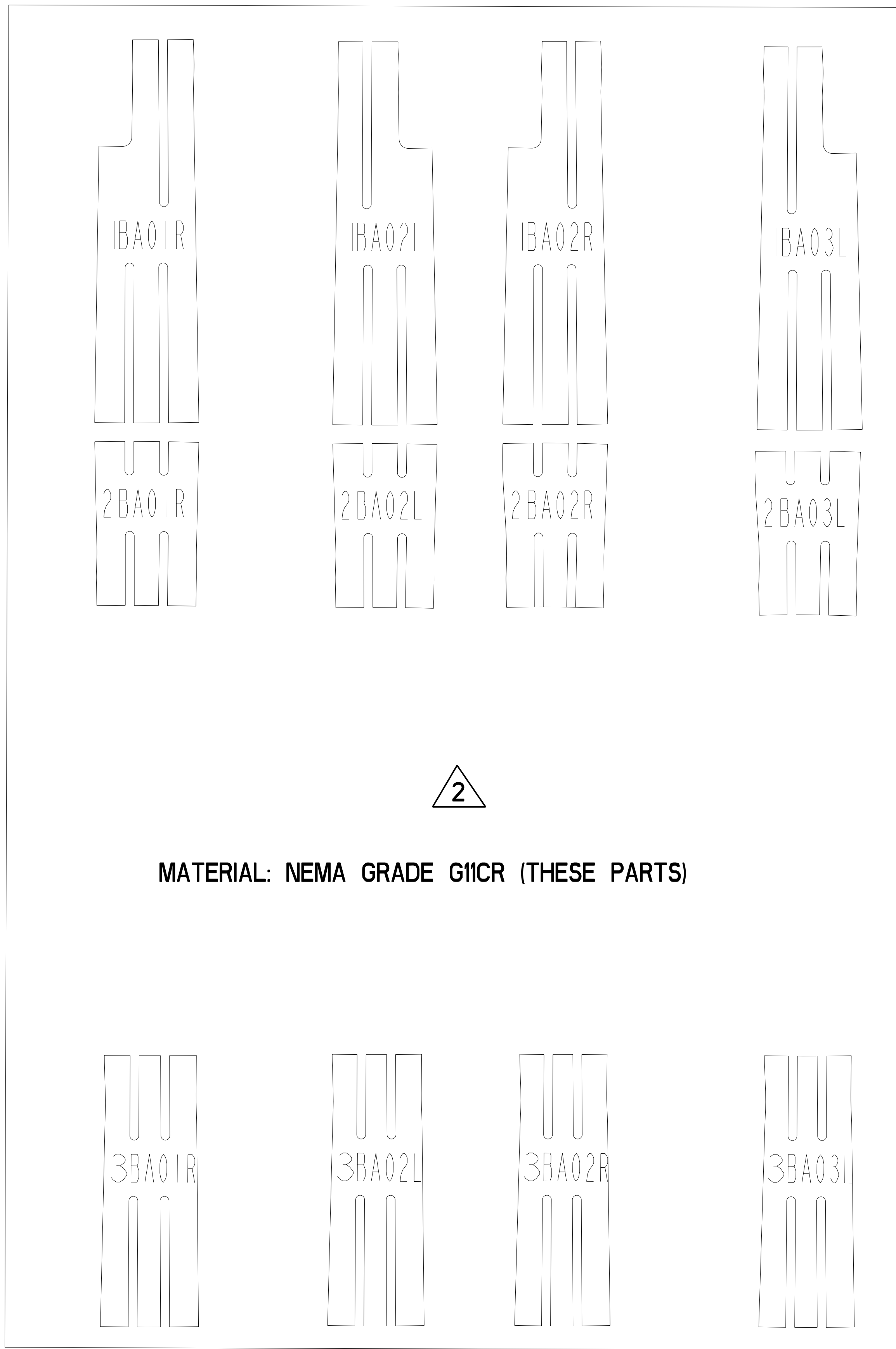
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MATERIAL: NEMA GRADE G11CR (THESE PARTS)

1BA-POL

2BA-POL

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4BA03R

4BA04L

4BA06L

4BA06R

4BA07L

4BA07R

4BA08L

4BA08R

3BA01R

3BA02L

3BA02R

3BA03L

3BA03R

3BA04L

3BA06L

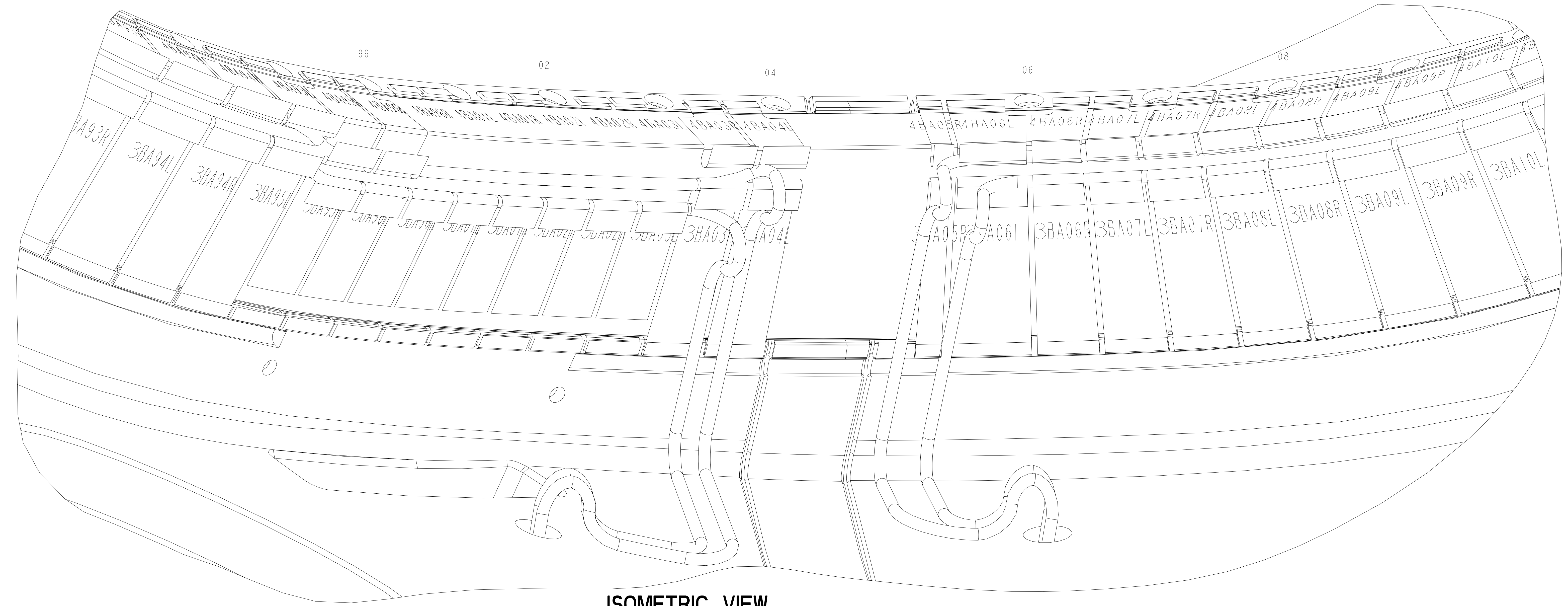
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3BA08R



ISOMETRIC VIEW

SCALE 1.00

UT-BATTELLE		Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT CONTRACT DE-AC05-00OR22725 UT-BATTELLE, LLC, Oak Ridge, Tennessee			
PROJECT NAME					
NATIONAL COMPACT STELLARATOR EXPERIMENT					
MODULAR COIL TYPE-B					
SIDE-A CLADDING AND CHILL PLATES					
FLAT PATTERN LAYOUT					
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE CLASS
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RELEASE LEVEL		SE 142B-252		REV	
WIP				2	

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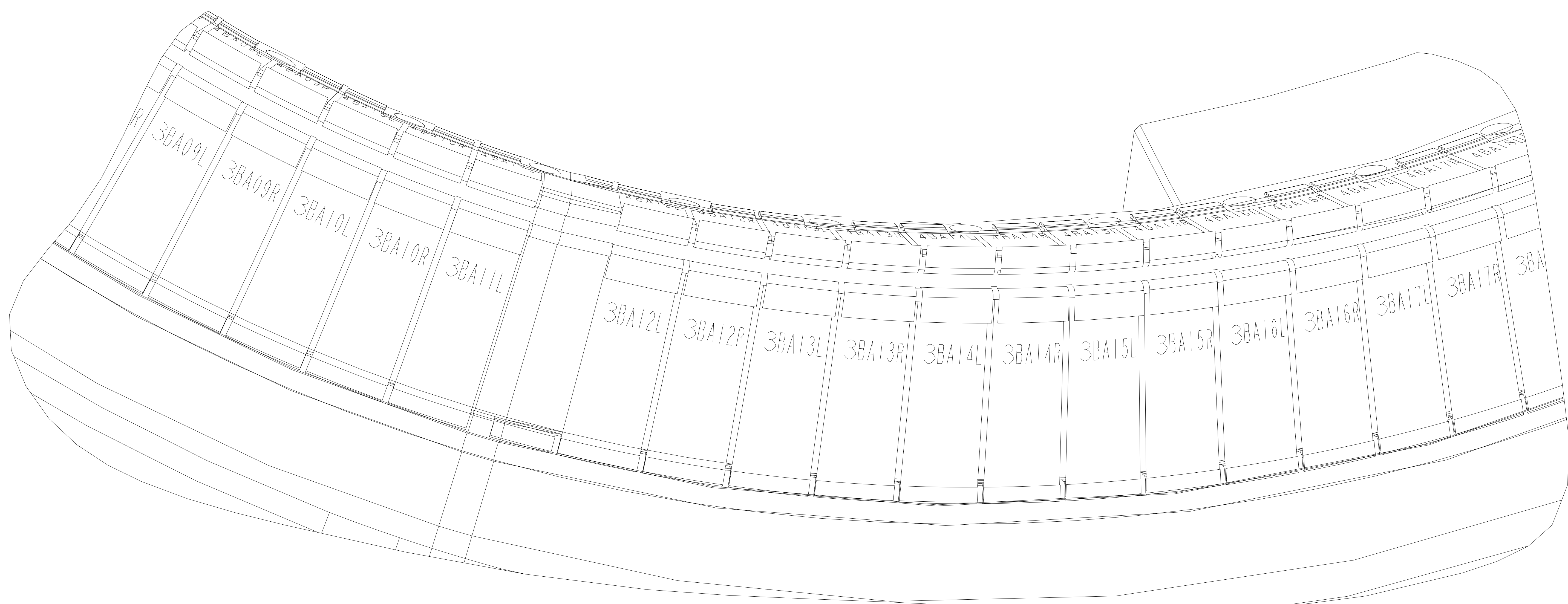
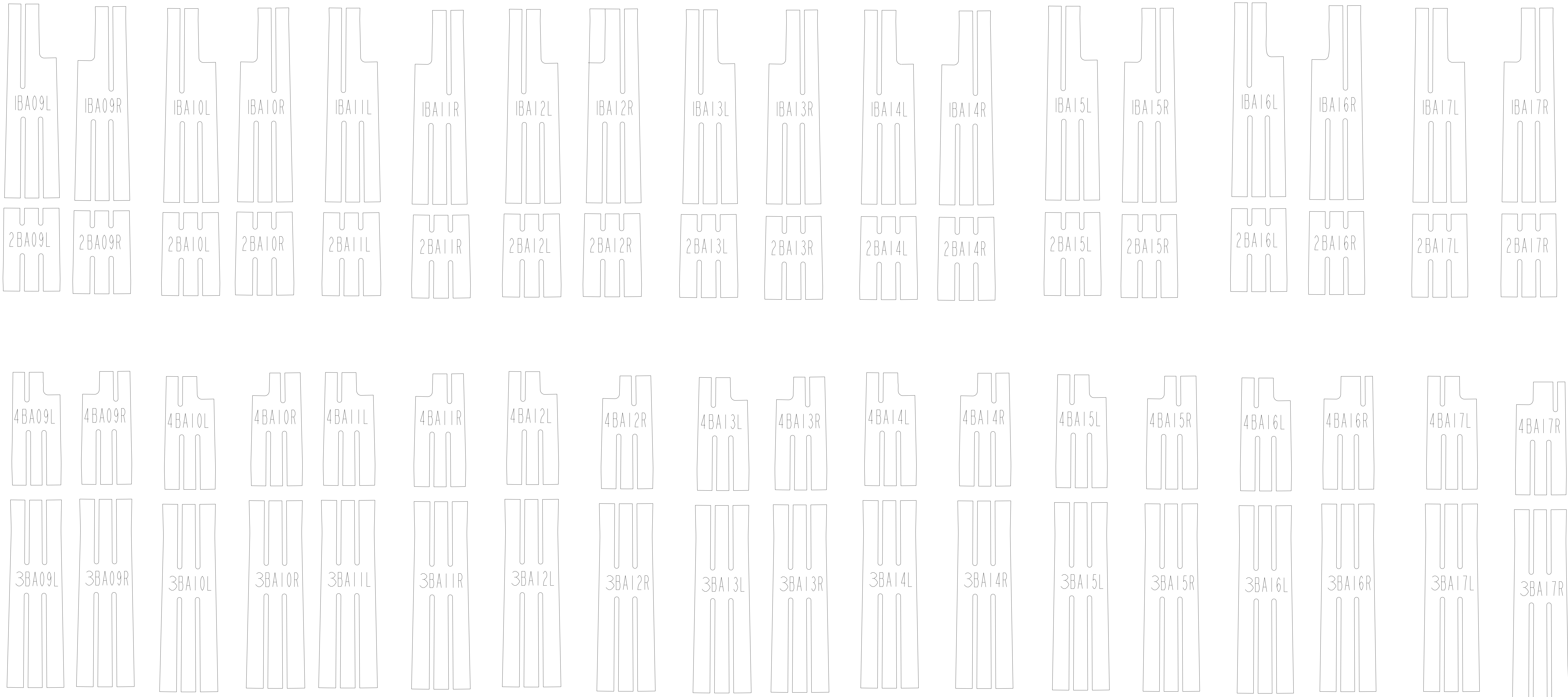
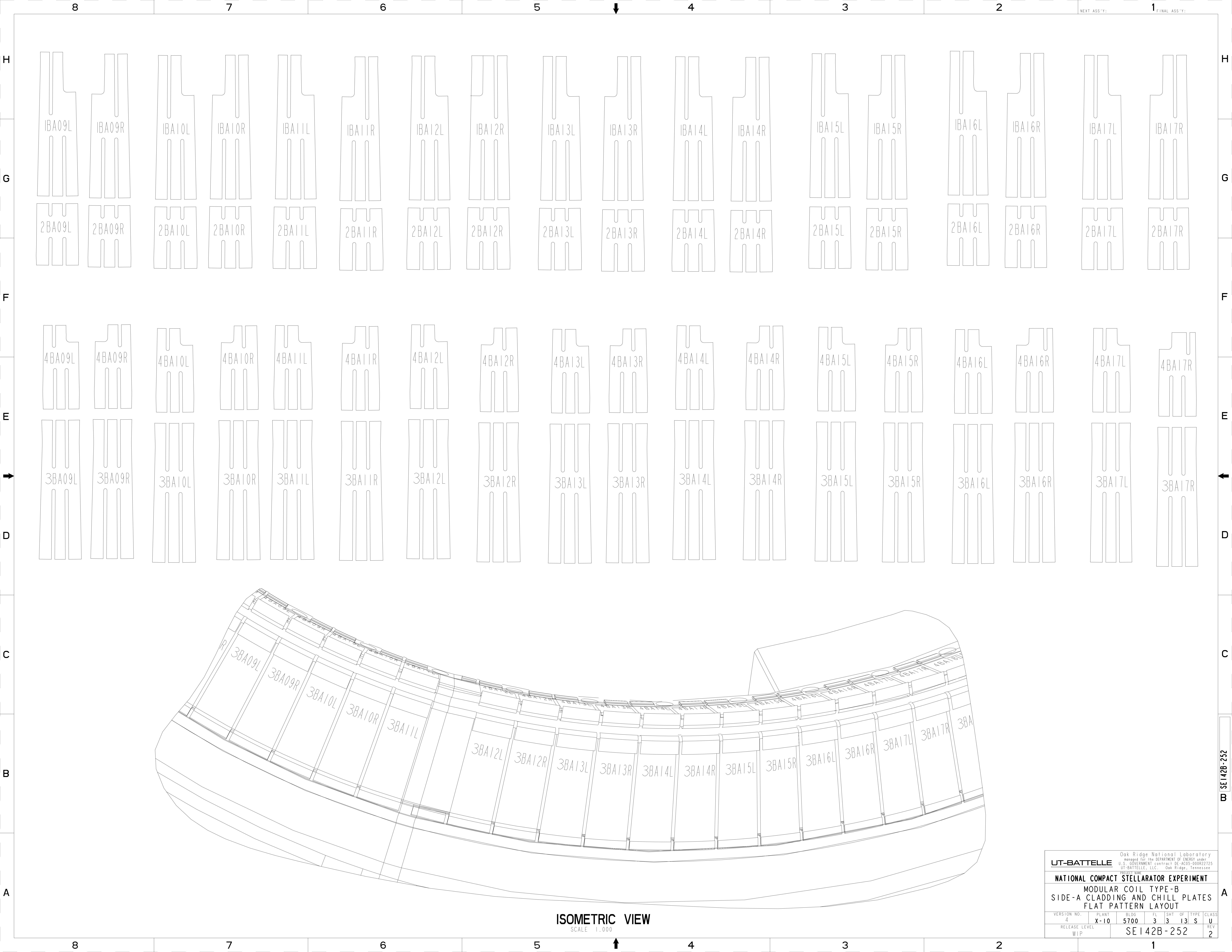
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SE 142B-252



ISOMETRIC VIEW

SCALE 1,000

Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC, Oak Ridge, Tennessee PROJECT NAME							
<b>UT-BATTELLE</b> <b>NATIONAL COMPACT STELLARATOR EXPERIMENT</b> <b>MODULAR COIL TYPE-B</b> <b>SIDE-A CLADDING AND CHILL PLATES</b> <b>FLAT PATTERN LAYOUT</b>							
VERSION NO.	PLANT	BLDG	FL	SHT	OF	TYPE	CLASS
4	X-10	5700	3	3	13	S	U
RELEASE LEVEL		SE 142B-252			REV		2
WIP							

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NEXT ASS'Y:

FINAL ASS'Y:

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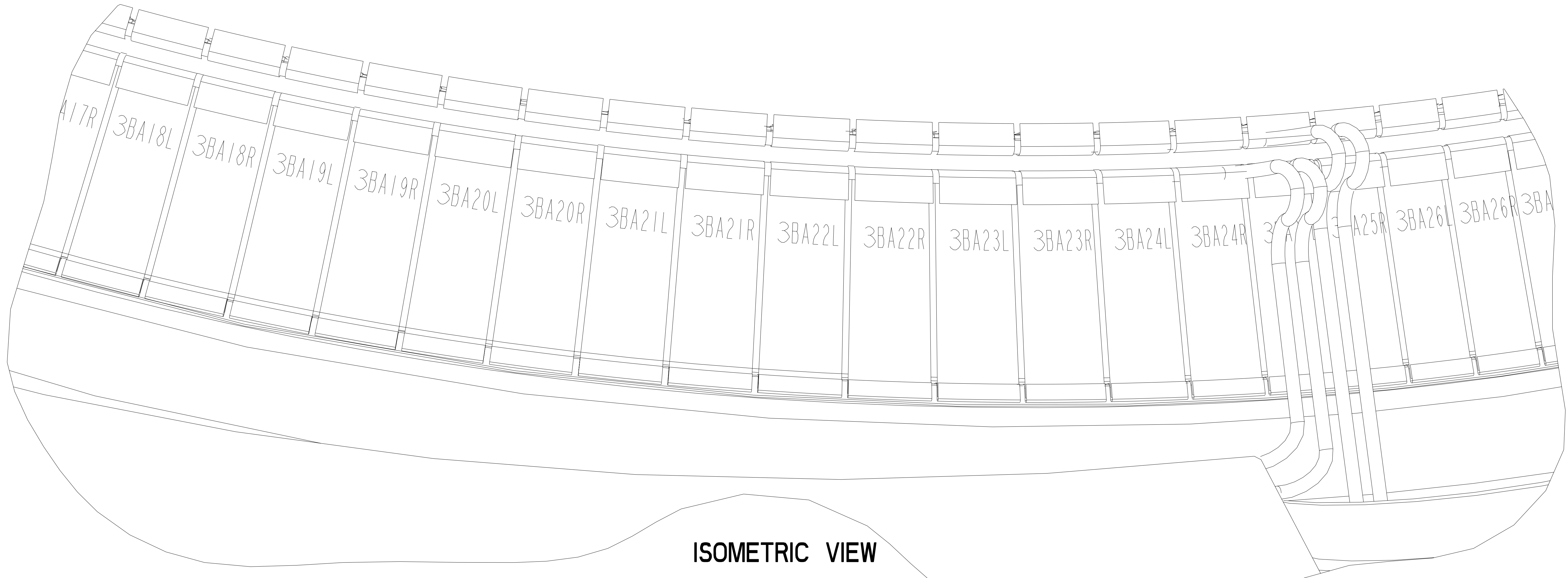
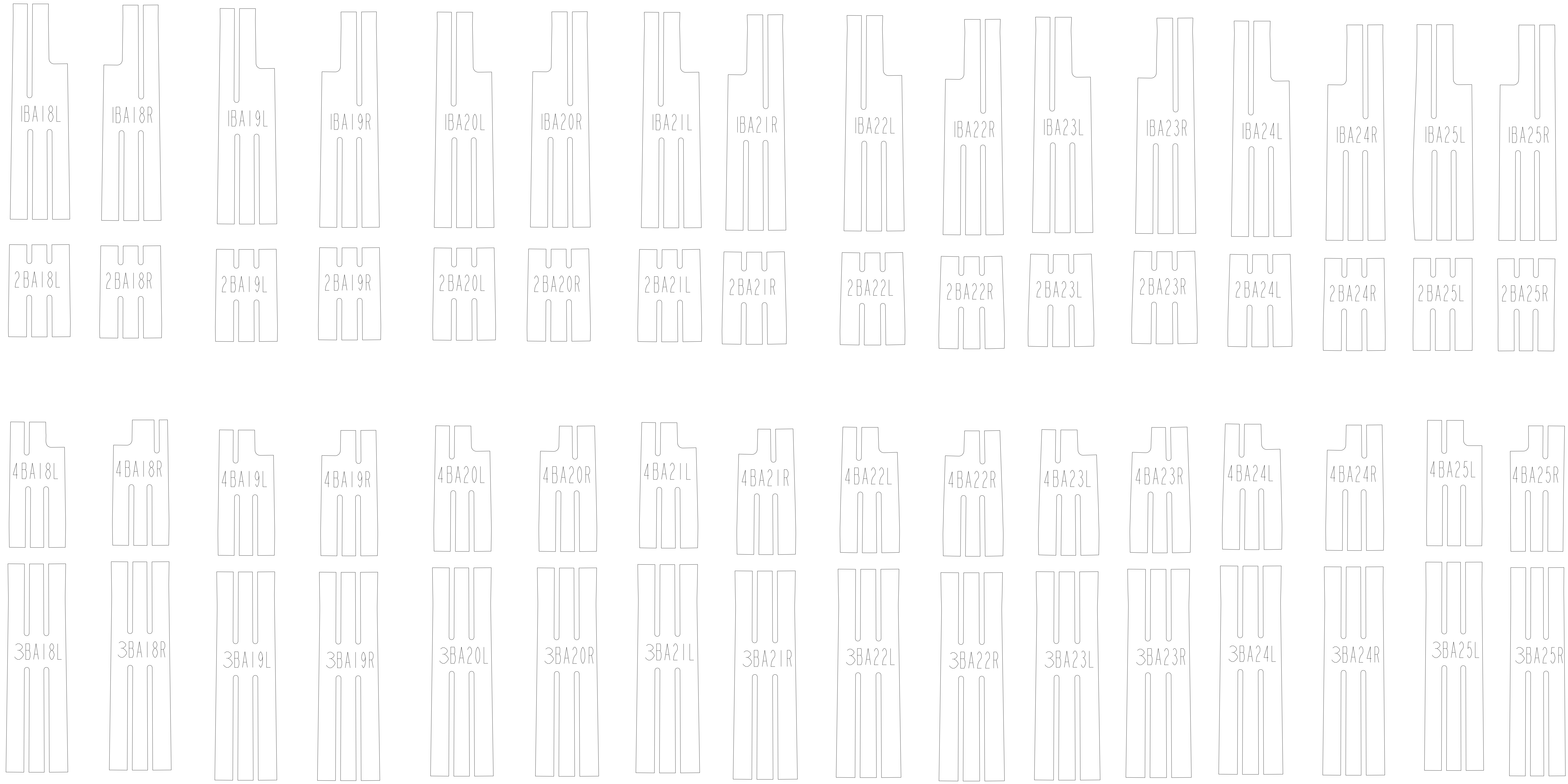
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ISOMETRIC VIEW

SCALE 1.000

UT-BATTELLE		Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC., Oak Ridge, Tennessee	
PROJECT NAME			
NATIONAL COMPACT STELLARATOR EXPERIMENT			
MODULAR COIL TYPE-B			
SIDE-A CLADDING AND CHILL PLATES			
FLAT PATTERN LAYOUT			
VERSION NO. 4	PLANT X-10	BLDG 5700	FL SHT OF TYPE CLASS 3 4 13 S U
RELEASE LEVEL WIP		SE 142B-252	
		REV 2	

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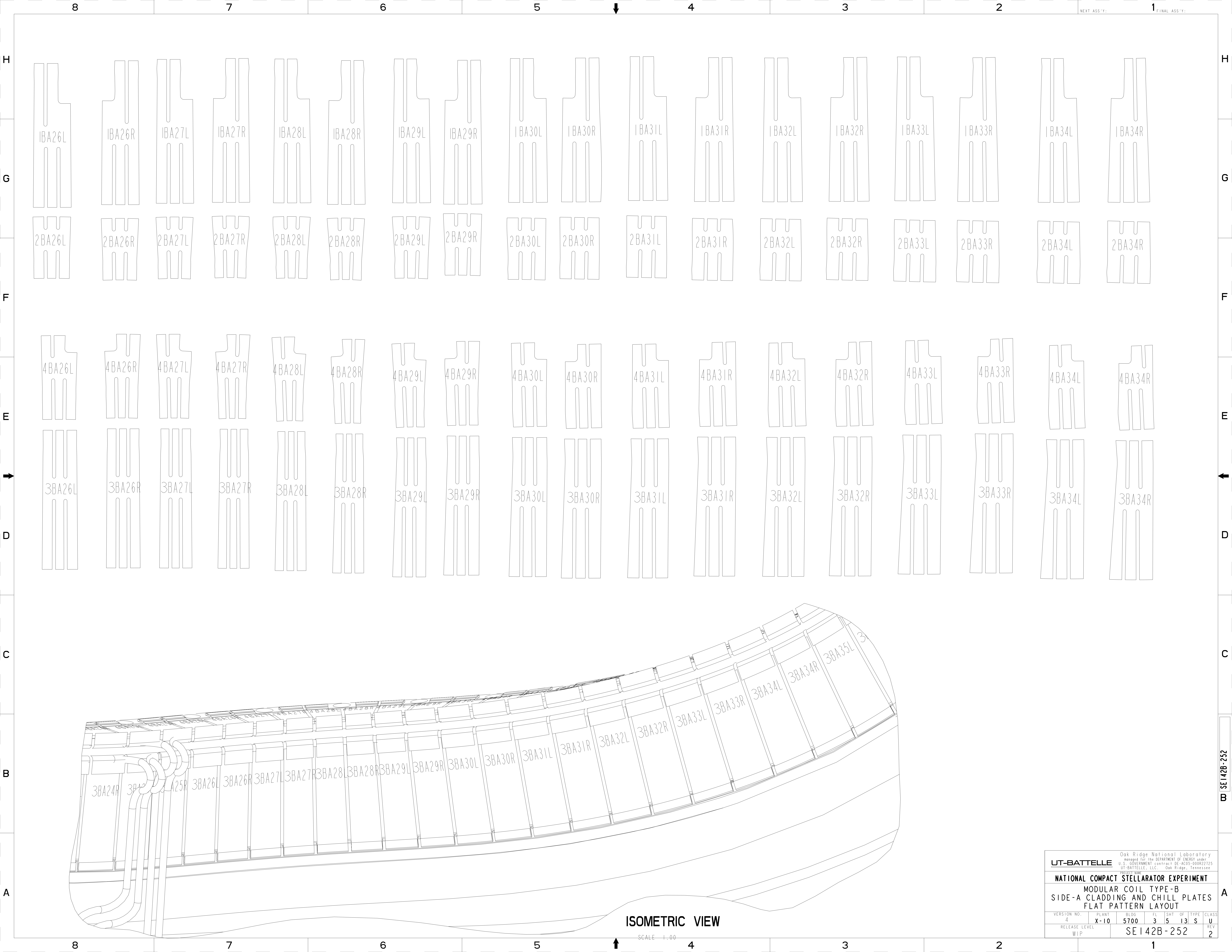
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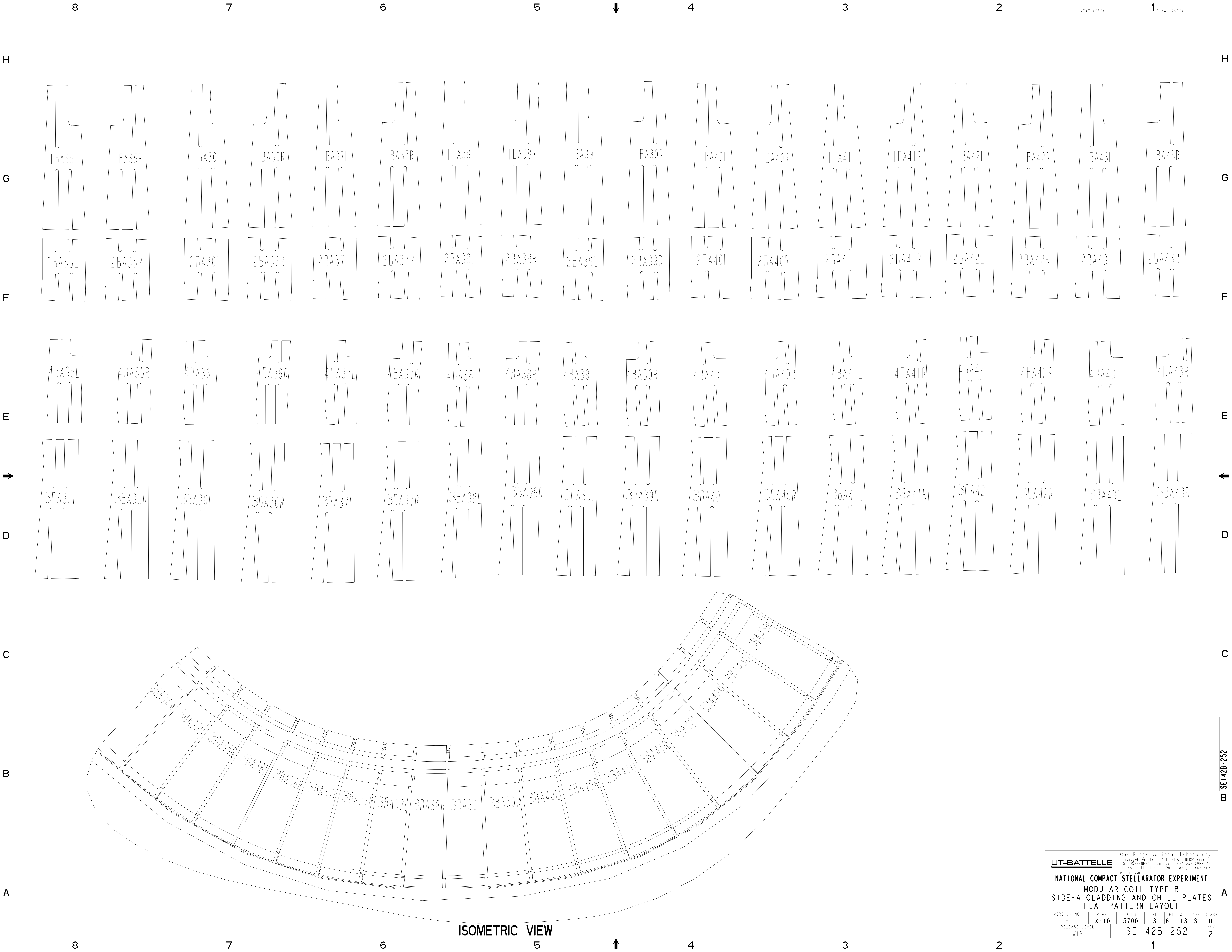
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ISOMETRIC VIEW

SCALE 1:00

Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT CONTRACT DE-AC05-00OR22725 UT-BATTELLE, LLC, Oak Ridge, Tennessee PROJECT NAME									
<b>NATIONAL COMPACT STELLARATOR EXPERIMENT</b>									
MODULAR COIL TYPE-B SIDE-A CLADDING AND CHILL PLATES FLAT PATTERN LAYOUT									
VERSION NO.	PLANT	BLDG	FL	SHT	OF	TYPE	CLASS		
4	X-10	5700	3	5	13	S	U		
RELEASE LEVEL		SE 142B-252						REV	
WIP								2	



1BA35L

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1BA37R

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1BA38R

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1BA41L

1BA41R

1BA42L

1BA42R

1BA43L

1BA43R

2BA35L

2BA35R

2BA36L

2BA36R

2BA37L

2BA37R

2BA38L

2BA38R

2BA39L

2BA39R

2BA40L

2BA40R

2BA41L

2BA41R

2BA42L

2BA42R

2BA43L

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4BA35L

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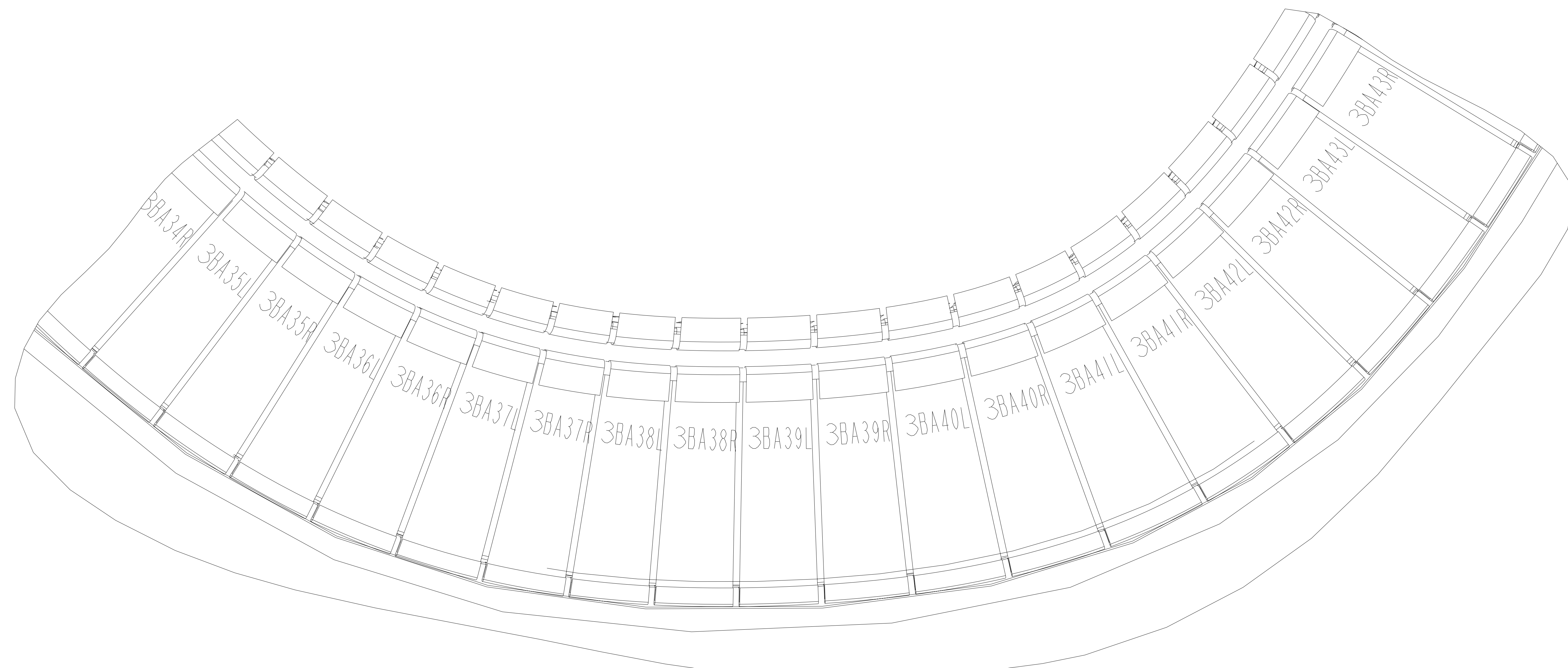
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3BA42L

3BA42R

3BA43L

3BA43R



ISOMETRIC VIEW

UT-BATTELLE		Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT CONTRACT DE-AC05-00OR22725 UT-BATTELLE, LLC., Oak Ridge, Tennessee	
PROJECT NAME			
NATIONAL COMPACT STELLARATOR EXPERIMENT			
MODULAR COIL TYPE-B			
SIDE-A CLADDING AND CHILL PLATES			
FLAT PATTERN LAYOUT			
VERSION NO.	PLANT	BLDG	FL SHT OF TYPE CLASS
4	X-10	5700	3 6 13 S U
RELEASE LEVEL		SE 142B-252	
WIP		REV 2	

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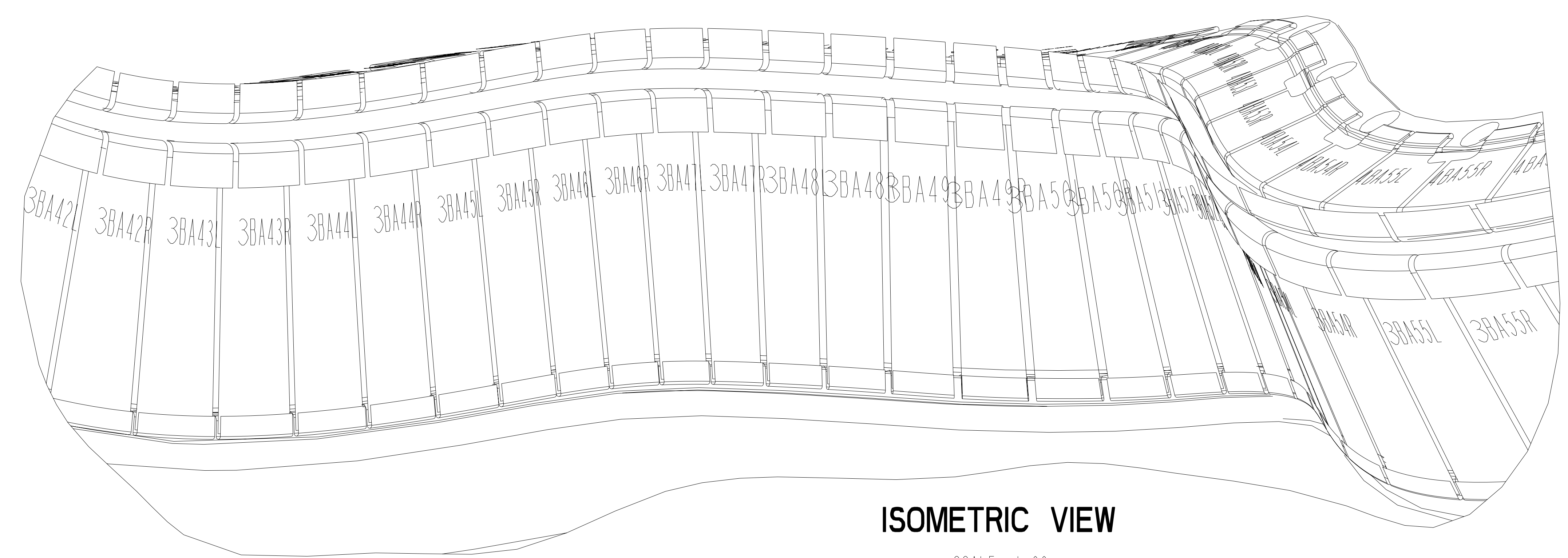
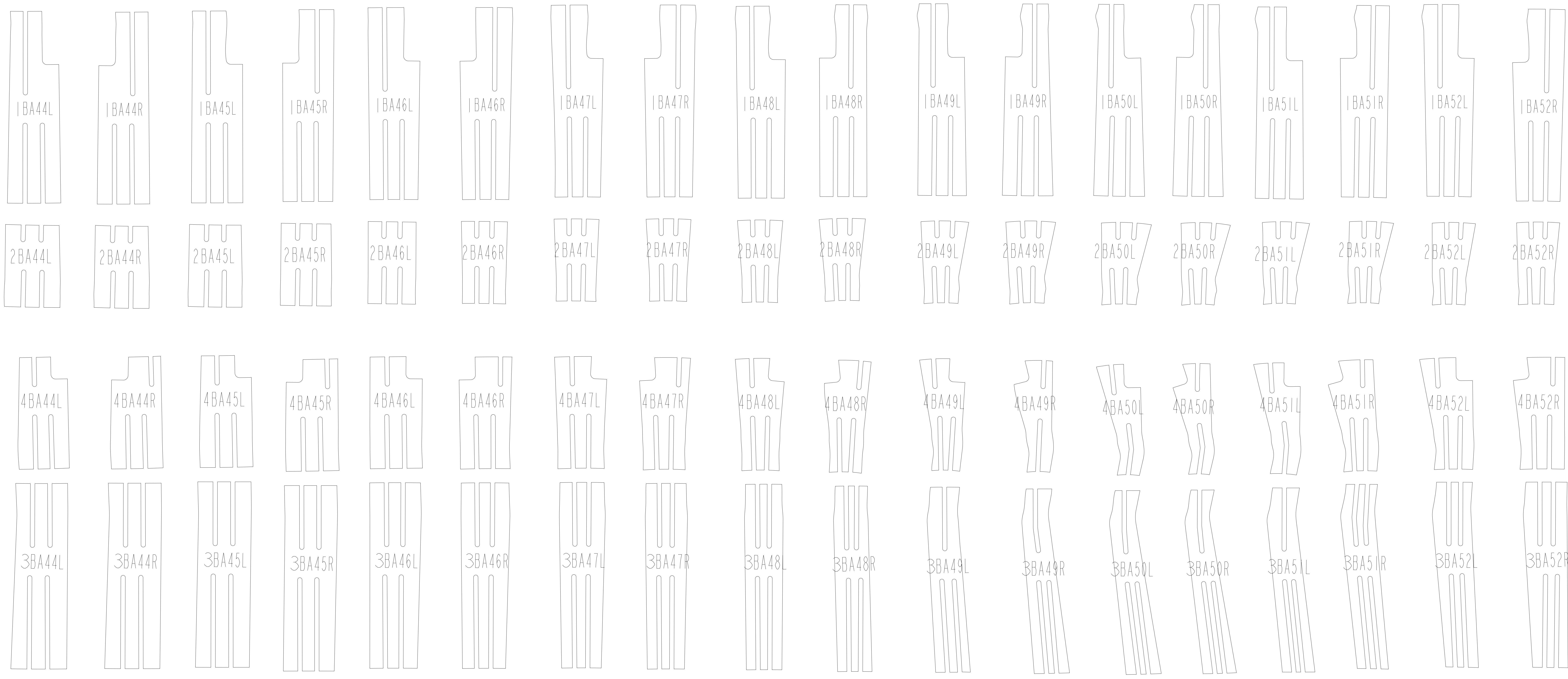
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ISOMETRIC VIEW

SCALE 1.00

UT-BATTELLE		Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT CONTRACT DE-AC05-00OR22725 UT-BATTELLE, LLC, Oak Ridge, Tennessee					
PROJECT NAME							
NATIONAL COMPACT STELLARATOR EXPERIMENT							
MODULAR COIL TYPE-B							
SIDE-A CLADDING AND CHILL PLATES							
FLAT PATTERN LAYOUT							
VERSION NO.	PLANT	BLDG	FL	SHT	OF	TYPE	CLASS
4	X-10	5700	3	7	13	S	U
RELEASE LEVEL		SE 142B-252				REV	
WIP						2	

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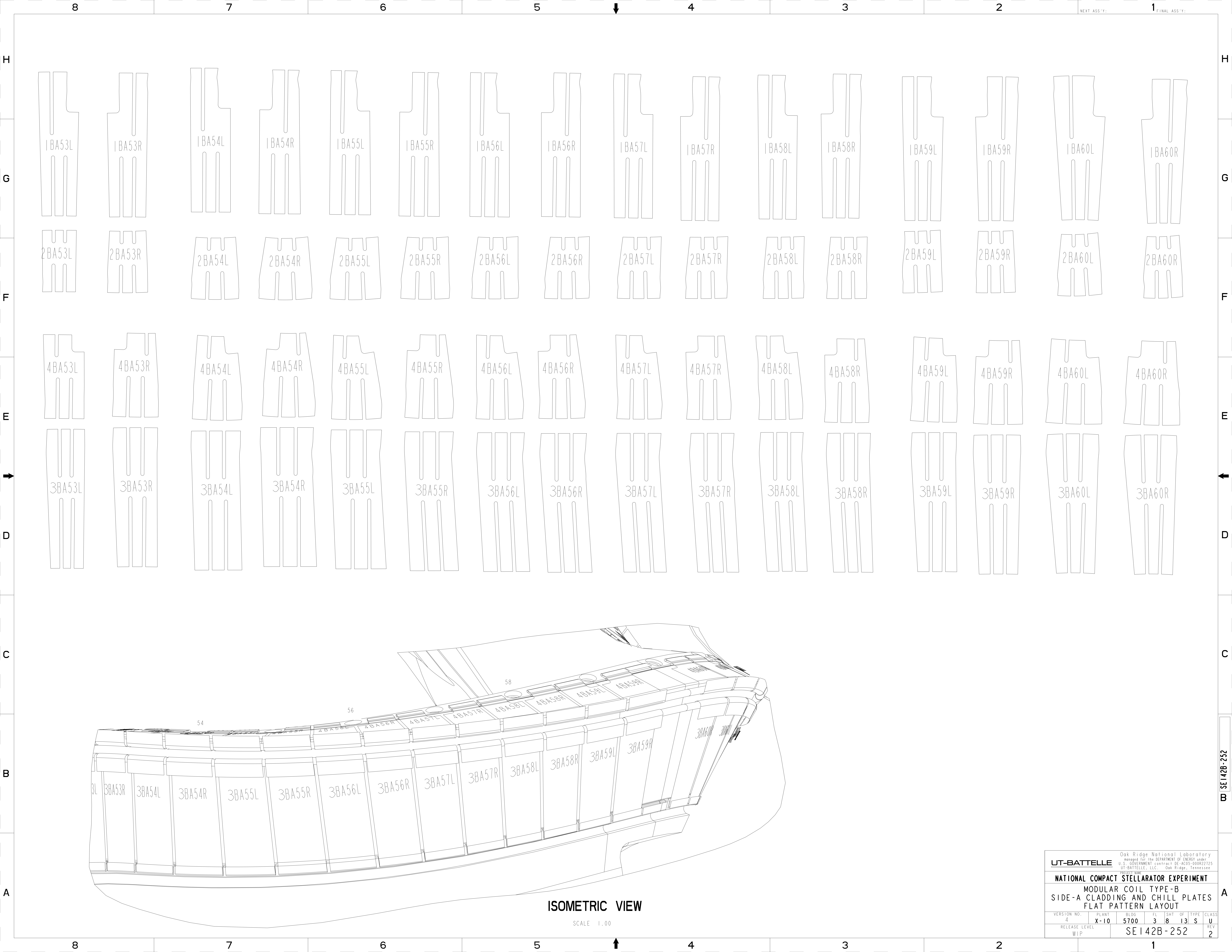
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252-02135



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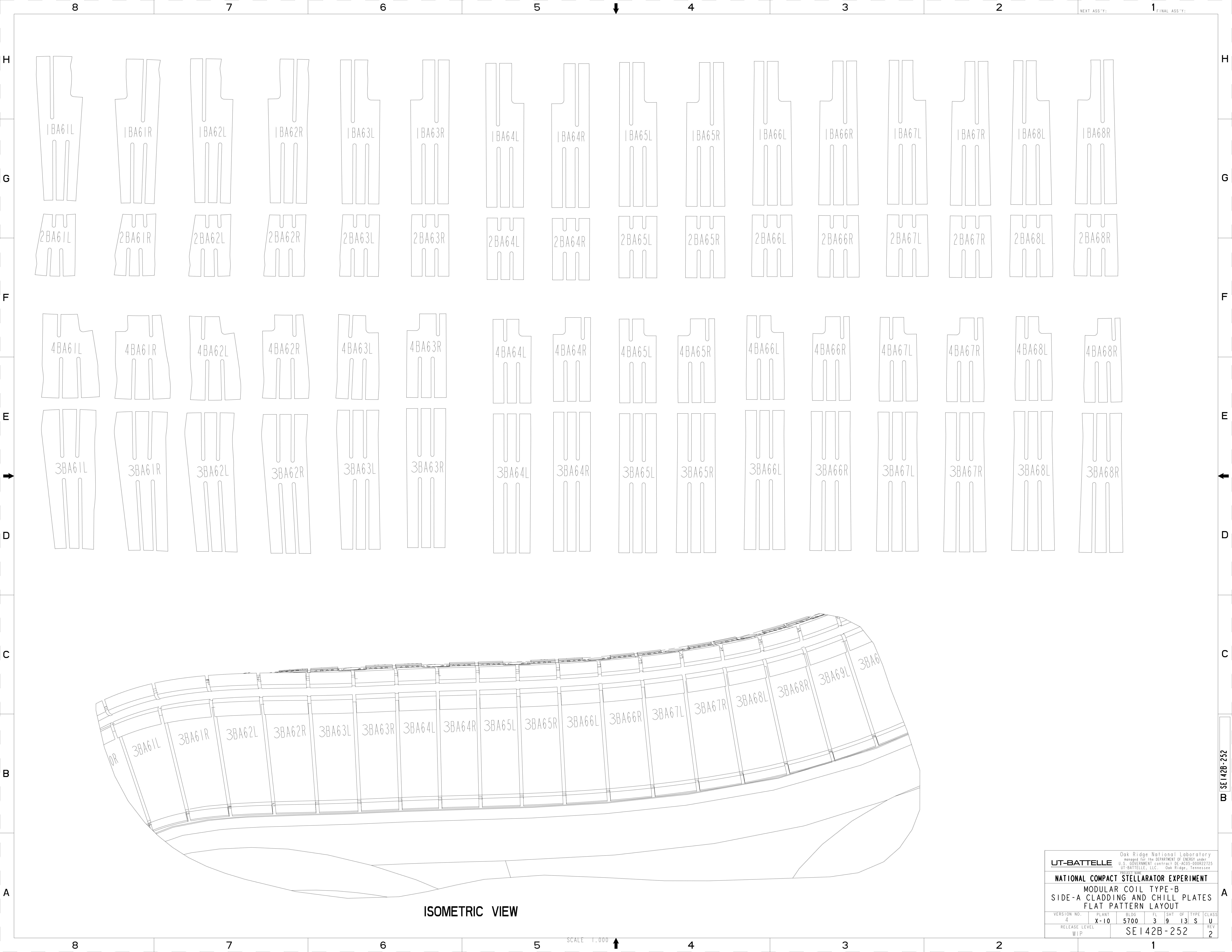
ISOMETRIC VIEW

SCALE 1.00

Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT CONTRACT DE-AC05-00OR22725 UT-BATTELLE, LLC., Oak Ridge, Tennessee PROJECT NAME									
<b>UT-BATTELLE</b> <b>NATIONAL COMPACT STELLARATOR EXPERIMENT</b> <b>MODULAR COIL TYPE-B</b> <b>SIDE-A CLADDING AND CHILL PLATES</b> <b>FLAT PATTERN LAYOUT</b>									
VERSION NO.	PLANT	BLDG	FL	SHT	OF	TYPE	CLASS		
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RELEASE LEVEL		SE I 42B-252		REV		2			
WIP									

202-281-131



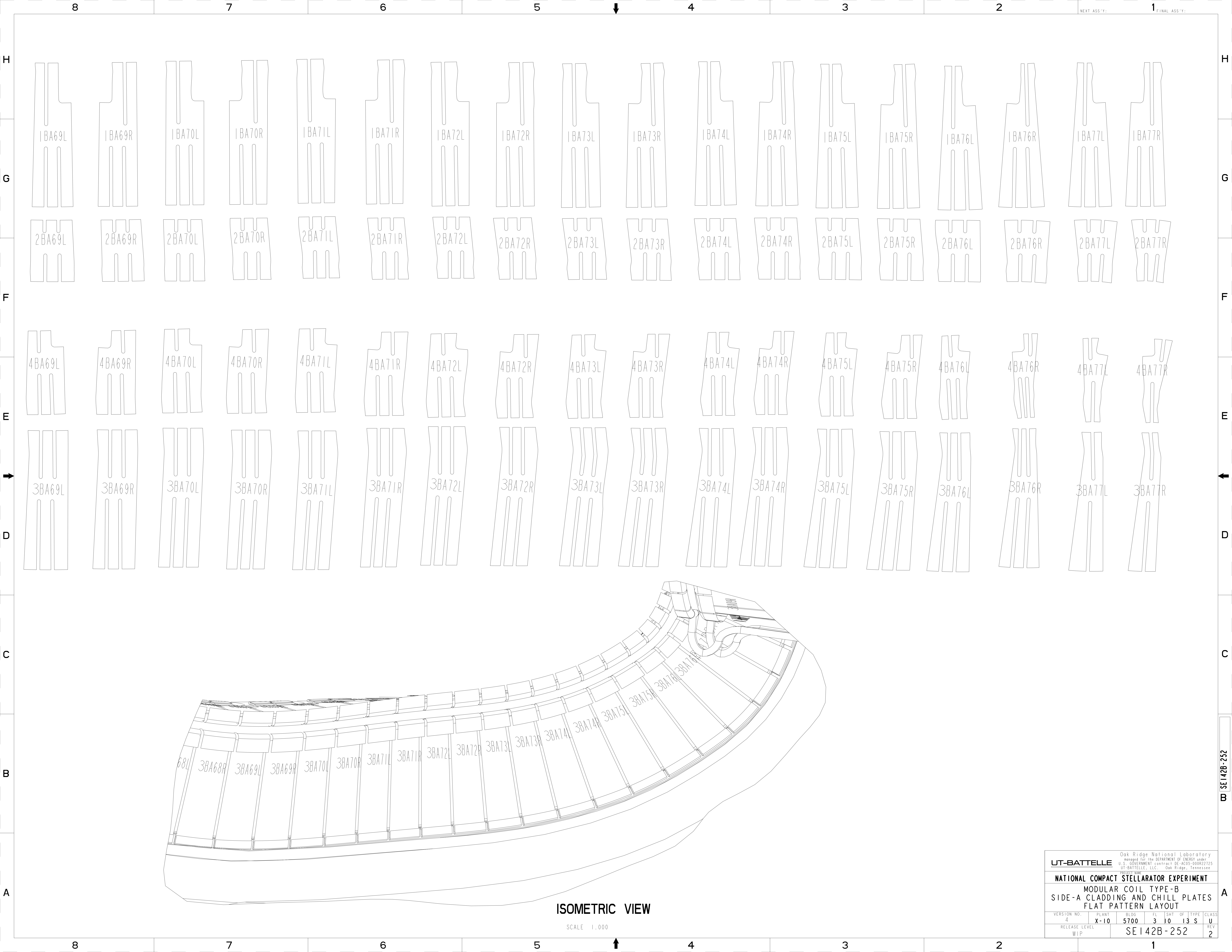


ISOMETRIC VIEW

SCALE 1:1000

Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC, Oak Ridge, Tennessee PROJECT NAME							
<b>NATIONAL COMPACT STELLARATOR EXPERIMENT</b>							
MODULAR COIL TYPE-B SIDE-A CLADDING AND CHILL PLATES FLAT PATTERN LAYOUT							
VERSION NO.	PLANT	BLDG	FL	SHT	OF	TYPE	CLASS
4	X-10	5700	3	9	13	S	U
RELEASE LEVEL		SE 142B-252				REV	
WIP						2	

252-02135

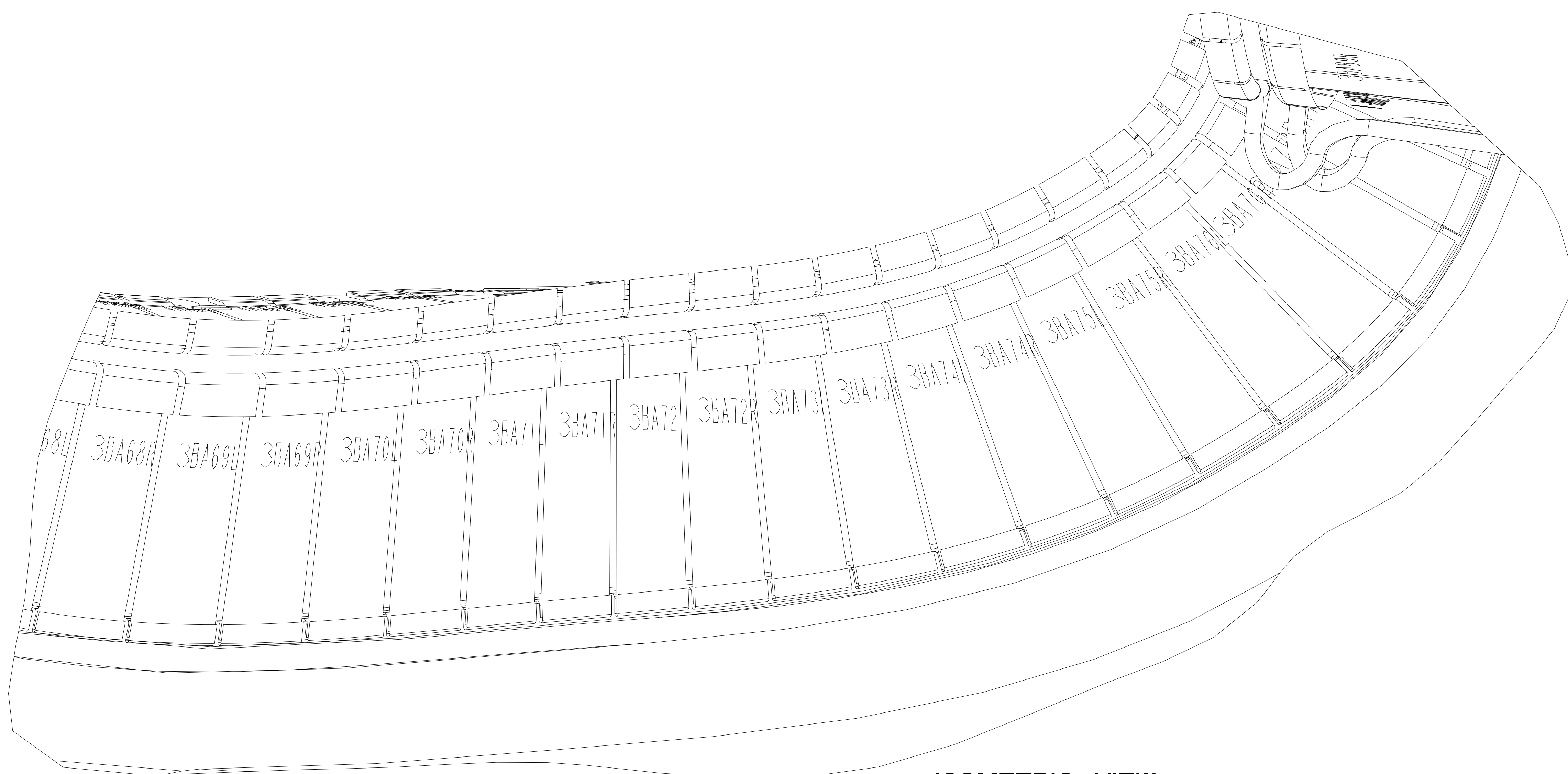


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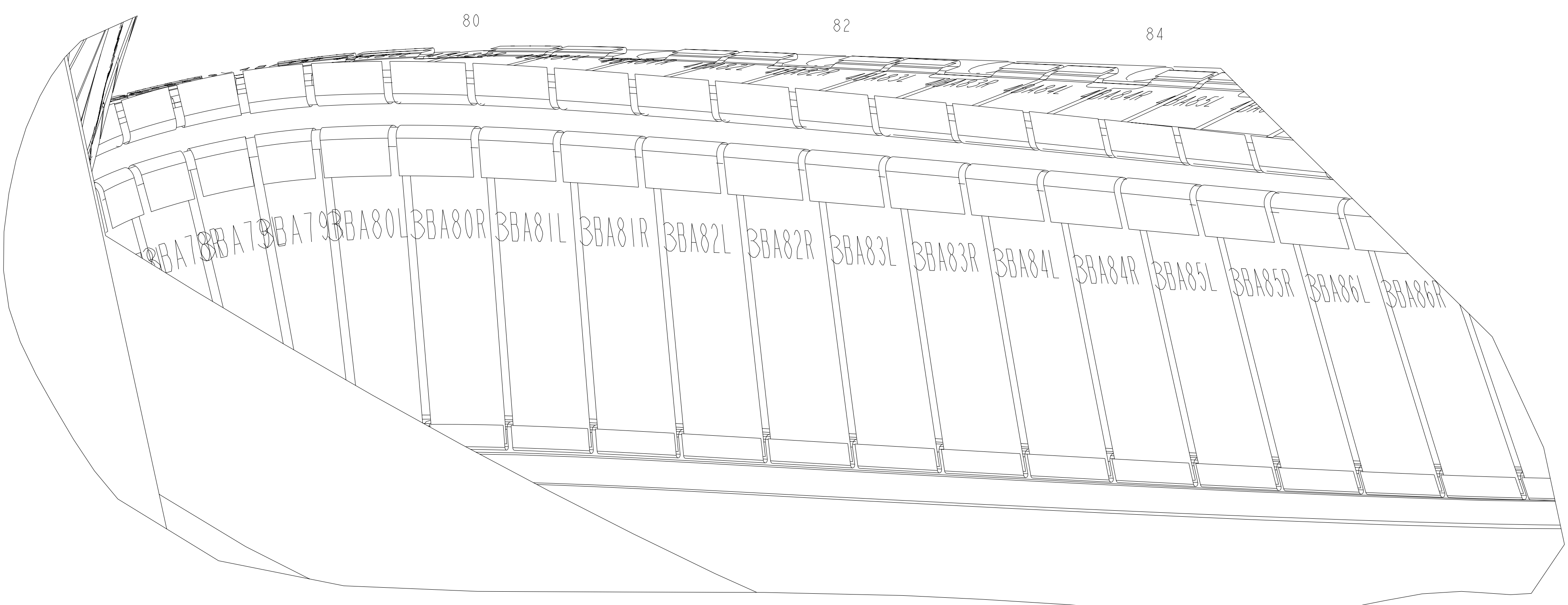
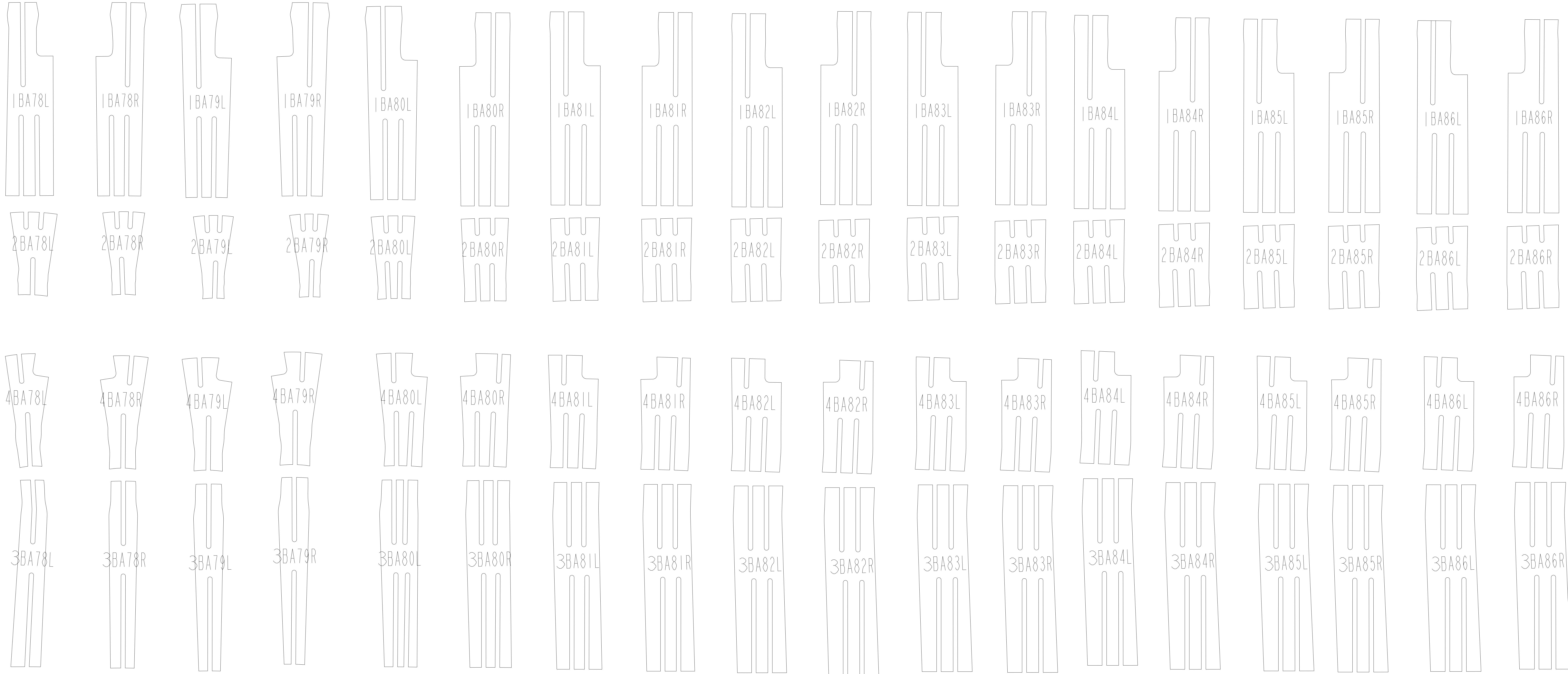
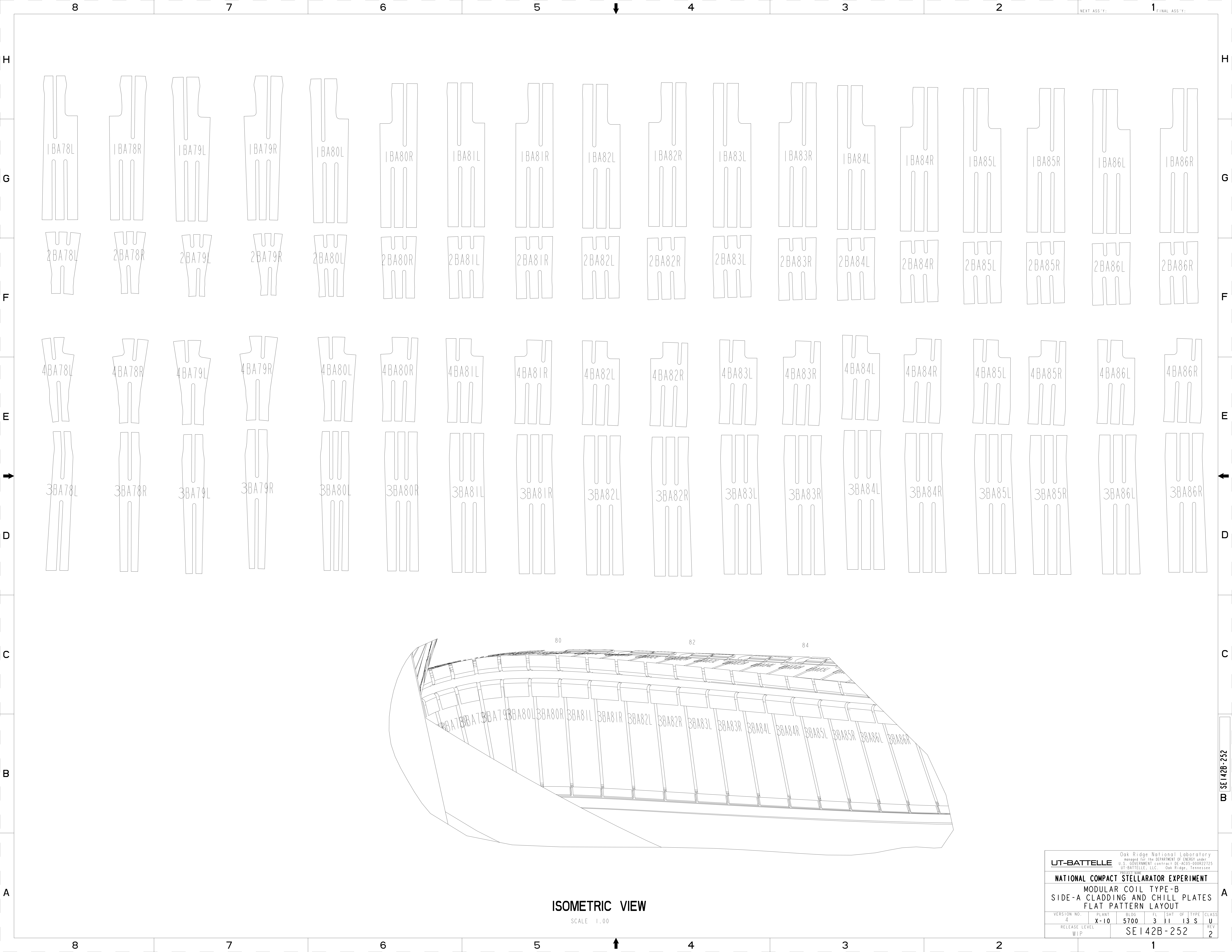
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ISOMETRIC VIEW

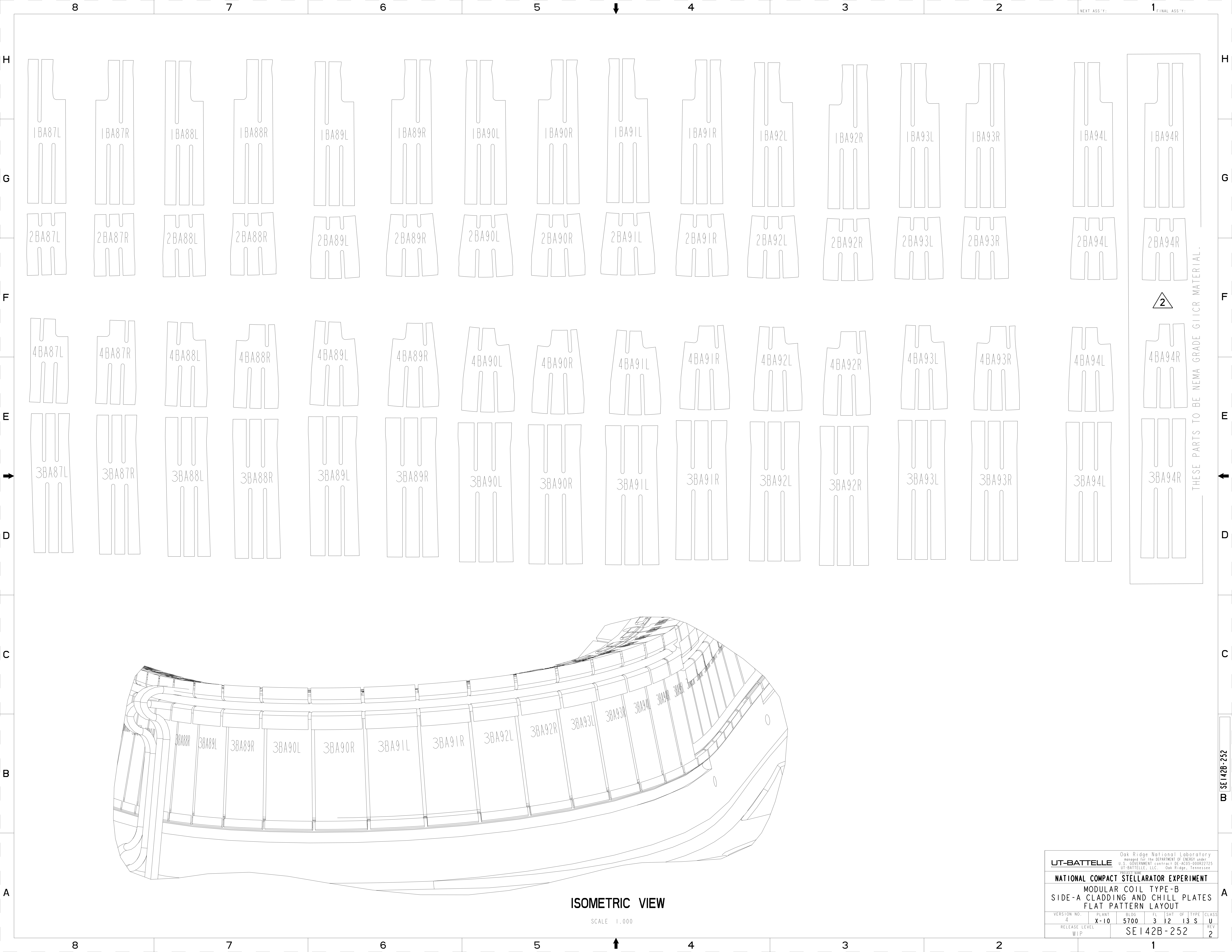
SCALE 1.000

Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT CONTRACT DE-AC05-00OR22725 UT-BATTELLE, LLC., Oak Ridge, Tennessee PROJECT NAME							
<b>NATIONAL COMPACT STELLARATOR EXPERIMENT</b>							
<b>MODULAR COIL TYPE-B</b>							
<b>SIDE-A CLADDING AND CHILL PLATES</b>							
<b>FLAT PATTERN LAYOUT</b>							
VERSION NO.	PLANT	BLDG	FL	SHT	OF	TYPE	CLASS
4	X-10	5700	3	10	13	S	U
RELEASE LEVEL		SE 142B-252				REV	
WIP						2	



ISOMETRIC VIEW  
SCALE 1.00

Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT CONTRACT DE-AC05-00OR22725 UT-BATTELLE, LLC., Oak Ridge, Tennessee PROJECT NAME					
<b>NATIONAL COMPACT STELLARATOR EXPERIMENT</b>					
<b>MODULAR COIL TYPE-B</b> <b>SIDE-A CLADDING AND CHILL PLATES</b> <b>FLAT PATTERN LAYOUT</b>					
VERSION NO.	PLANT	BLDG	FL	SHT OF	TYPE CLASS
4	X-10	5700	3	11 13 S	U
RELEASE LEVEL			SE 142B-252		REV
WIP					2



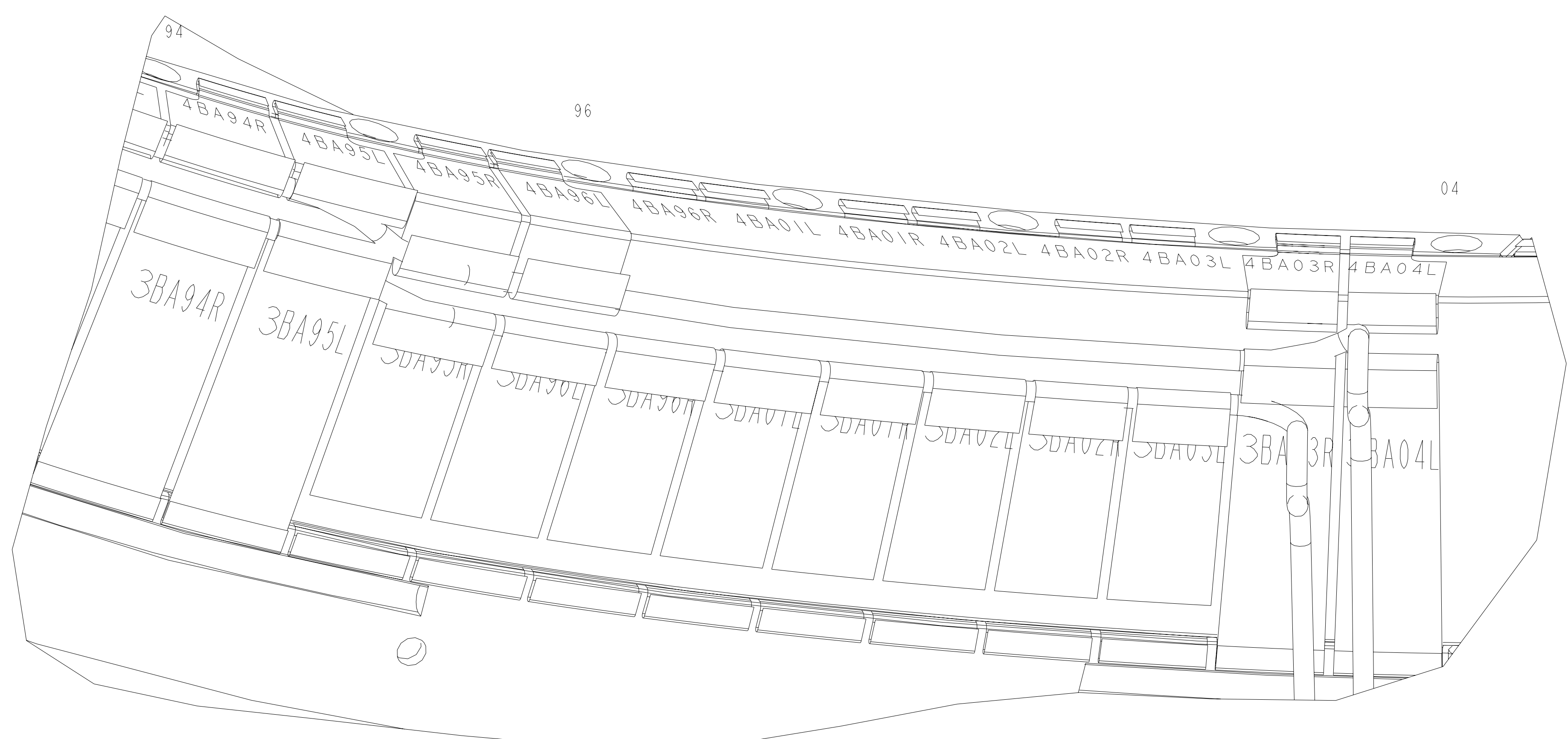
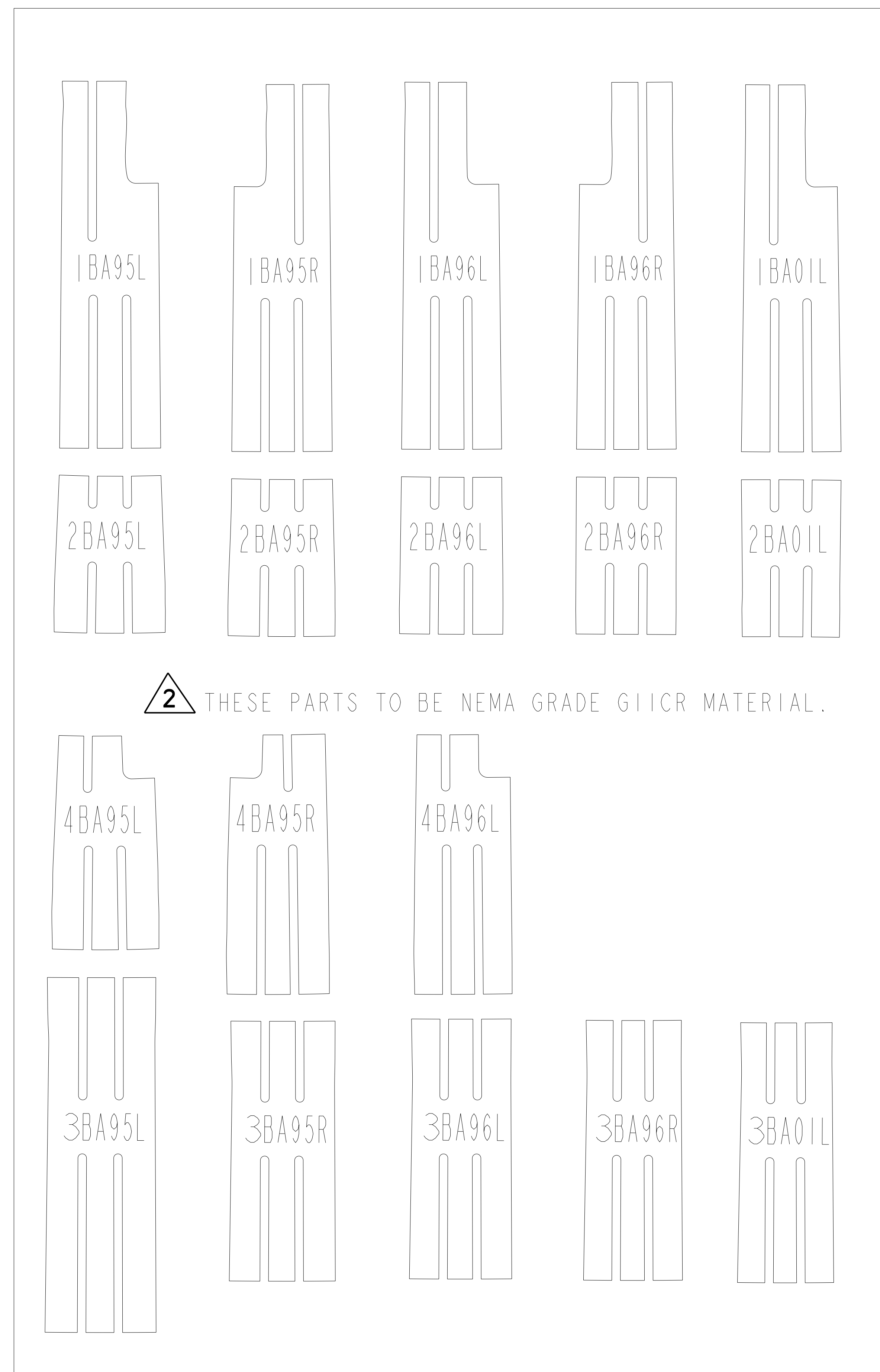
THESE PARTS TO BE NEMA GRADE G11CR MATERIAL.

2

ISOMETRIC VIEW

SCALE 1:000

UT-BATTELLE		Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC, Oak Ridge, Tennessee	
PROJECT NAME			
NATIONAL COMPACT STELLARATOR EXPERIMENT			
MODULAR COIL TYPE-B			
SIDE-A CLADDING AND CHILL PLATES			
FLAT PATTERN LAYOUT			
VERSION NO.	PLANT	BLDG	FL
4	X-10	5700	3
RELEASE LEVEL		SHT OF TYPE	
WIP		12 13 S	
CLASS		U	
REV		2	
SE 142B-252			



ISOMETRIC VIEW  
SCALE 1.00

Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC., Oak Ridge, Tennessee PROJECT NAME							
<b>UT-BATTELLE</b> <b>NATIONAL COMPACT STELLARATOR EXPERIMENT</b>							
MODULAR COIL TYPE-B SIDE-A CLADDING AND CHILL PLATES FLAT PATTERN LAYOUT							
VERSION NO.	PLANT	BLDG	FL	SHT	OF	TYPE	CLASS
4	X-10	5700	3	13	13	S	U
RELEASE LEVEL		SE 142B-252				REV	
WIP						2	

SE 142B-252