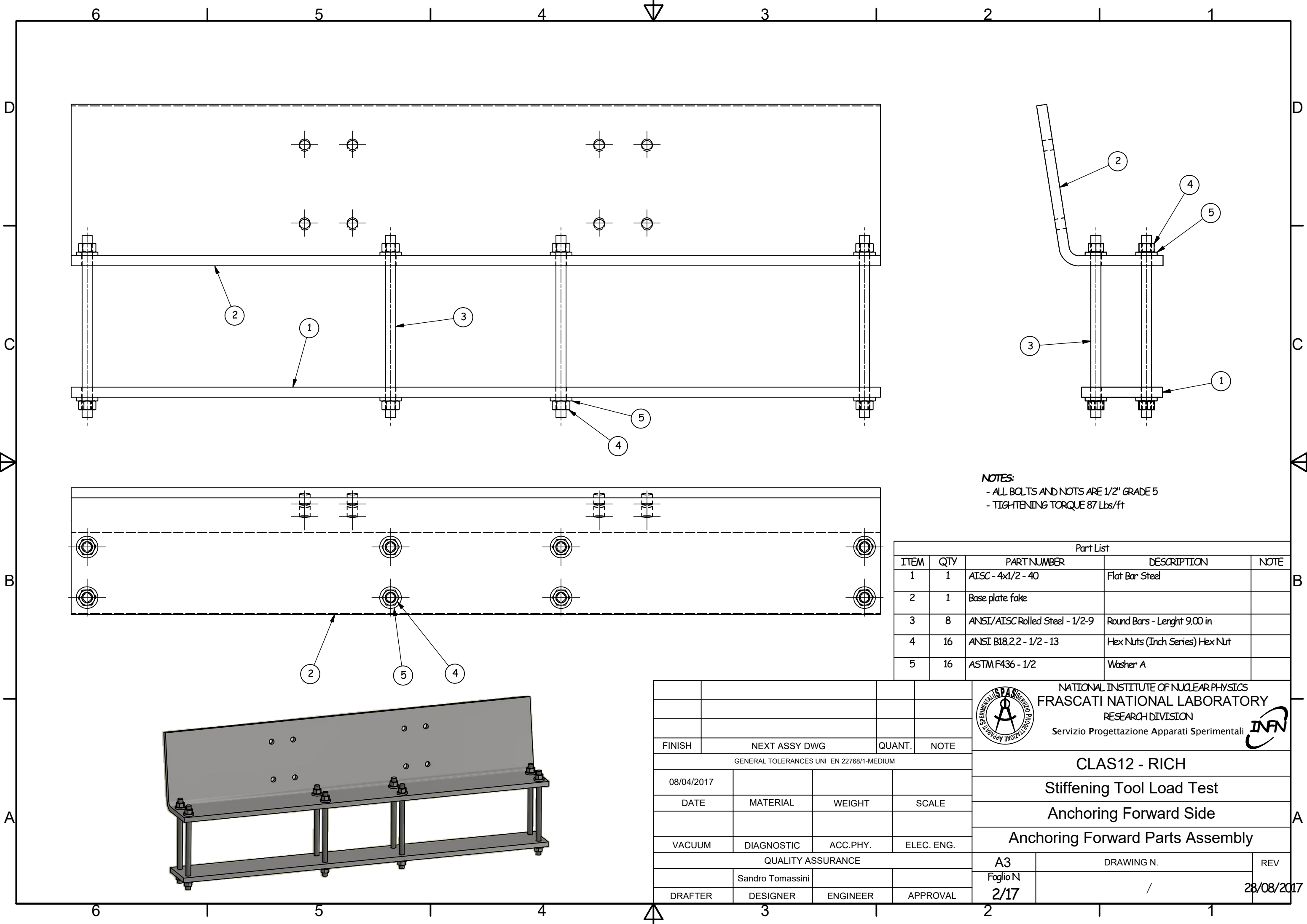




NOTES:
- ALL BOLTS AND NUTS ARE 1/2" GRADE 5
- TIGHTENING TORQUE 87 Lbs/ft

Part List				
ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	AISC - 4x1/2 - 40	Flat Bar Steel	
2	1	Base plate fake		
3	8	ANSI/AISC Rolled Steel - 1/2-9	Round Bars - Length 9.00 in	
4	16	ANSI B18.2.2 - 1/2 - 13	Hex Nuts (Inch Series) Hex Nut	
5	16	ASTM F436 - 1/2	Washer A	

FINISH	NEXT ASSY DWG	QUANT.	NOTE
GENERAL TOLERANCES UNI EN 22768/1-MEDIUM			
08/04/2017			
DATE	MATERIAL	WEIGHT	SCALE
VACUUM	DIAGNOSTIC	ACC.PHY.	ELEC. ENG.
QUALITY ASSURANCE			
	Sandro Tomassini		
DRAFTER	DESIGNER	ENGINEER	APPROVAL



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RESEARCH DIVISION
Servizio Progettazione Apparat



CLAS12 - RICH

Stiffening Tool Load Test

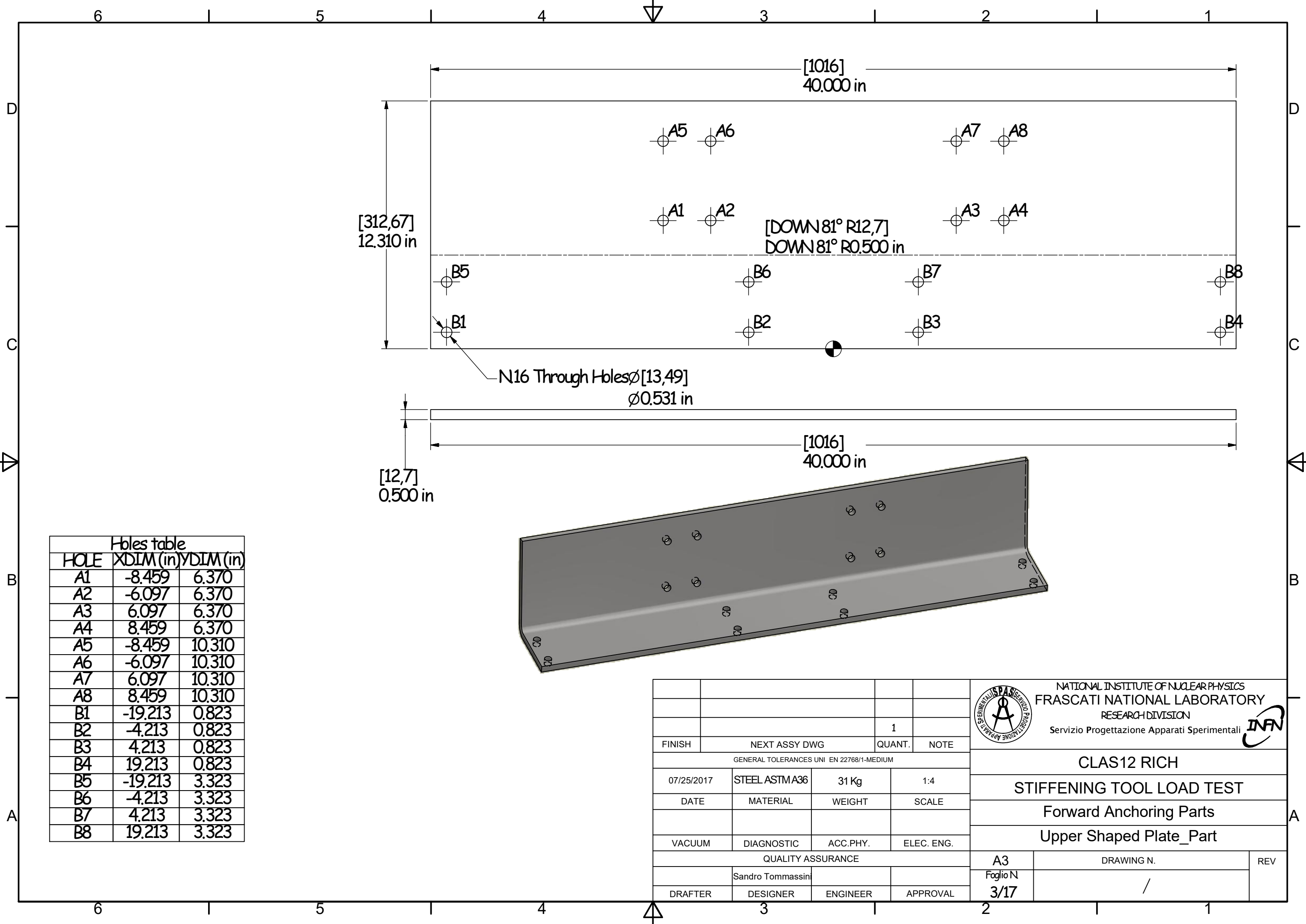
Anchoring Forward Side

Anchoring Forward Parts Assembly

A3
Foglio N
2/17

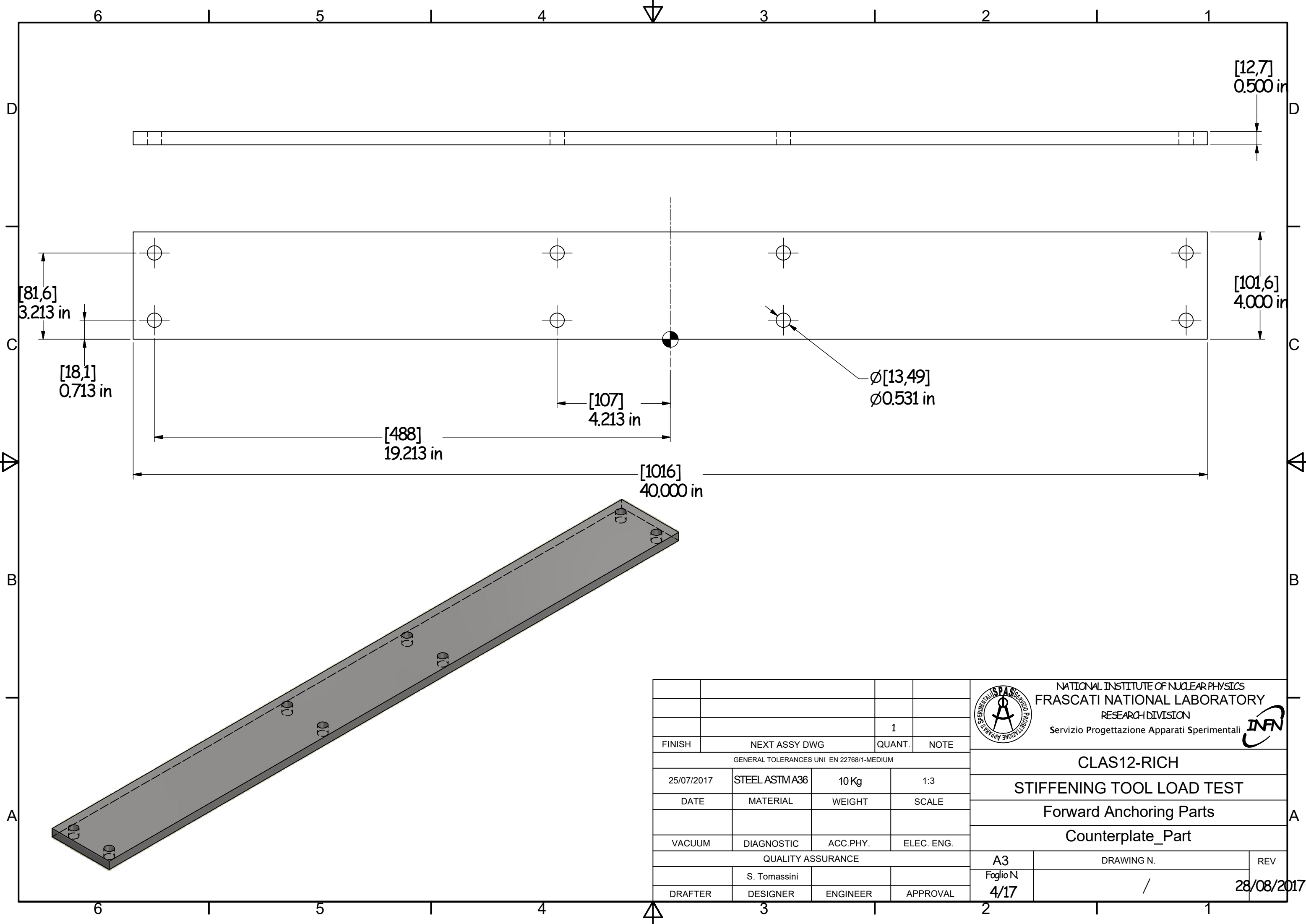
DRAWING N.
/

REV
28/08/2017



Holes table		
HOLE	XDIM (in)	YDIM (in)
A1	-8.459	6.370
A2	-6.097	6.370
A3	6.097	6.370
A4	8.459	6.370
A5	-8.459	10.310
A6	-6.097	10.310
A7	6.097	10.310
A8	8.459	10.310
B1	-19.213	0.823
B2	-4.213	0.823
B3	4.213	0.823
B4	19.213	0.823
B5	-19.213	3.323
B6	-4.213	3.323
B7	4.213	3.323
B8	19.213	3.323

				SPAS SERVIZIO PROGETTAZIONE APPARATI SPERIMENTALI NATIONAL INSTITUTE OF NUCLEAR PHYSICS FRASCATI NATIONAL LABORATORY RESEARCH DIVISION Servizio Progettazione Apparatı Sperimentali 		
		1				
FINISH	NEXT ASSY DWG	QUANT.	NOTE			
GENERAL TOLERANCES UNI EN 22768/1-MEDIUM						
07/25/2017	STEEL ASTM A36	31 Kg	1:4	CLAS12 RICH		
DATE	MATERIAL	WEIGHT	SCALE	STIFFENING TOOL LOAD TEST		
				Forward Anchoring Parts		
VACUUM	DIAGNOSTIC	ACC.PHY.	ELEC. ENG.	Upper Shaped Plate_Part		
QUALITY ASSURANCE				A3	DRAWING N.	REV
	Sandro Tommassini			Foglio N	/	
DRAFTER	DESIGNER	ENGINEER	APPROVAL	3/17		



		1	
FINISH	NEXT ASSY DWG	QUANT.	NOTE
GENERAL TOLERANCES UNI EN 22768/1-MEDIUM			
25/07/2017	STEEL ASTM A36	10 Kg	1:3
DATE	MATERIAL	WEIGHT	SCALE
VACUUM	DIAGNOSTIC	ACC. PHY.	ELEC. ENG.
QUALITY ASSURANCE			
	S. Tomassini		
DRAFTER	DESIGNER	ENGINEER	APPROVAL



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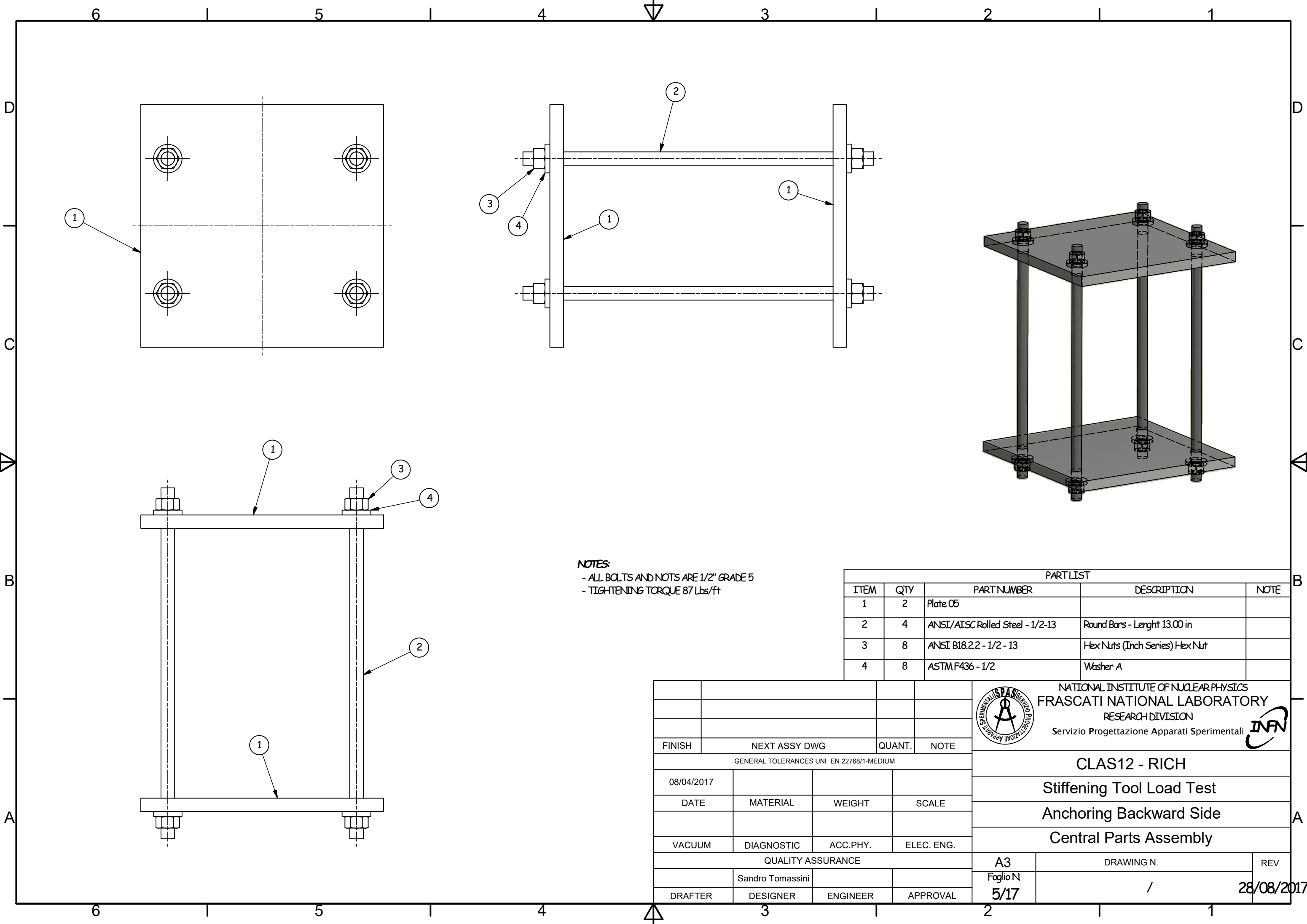
CLAS12-RICH

STIFFENING TOOL LOAD TEST

Forward Anchoring Parts

Counterplate_Part

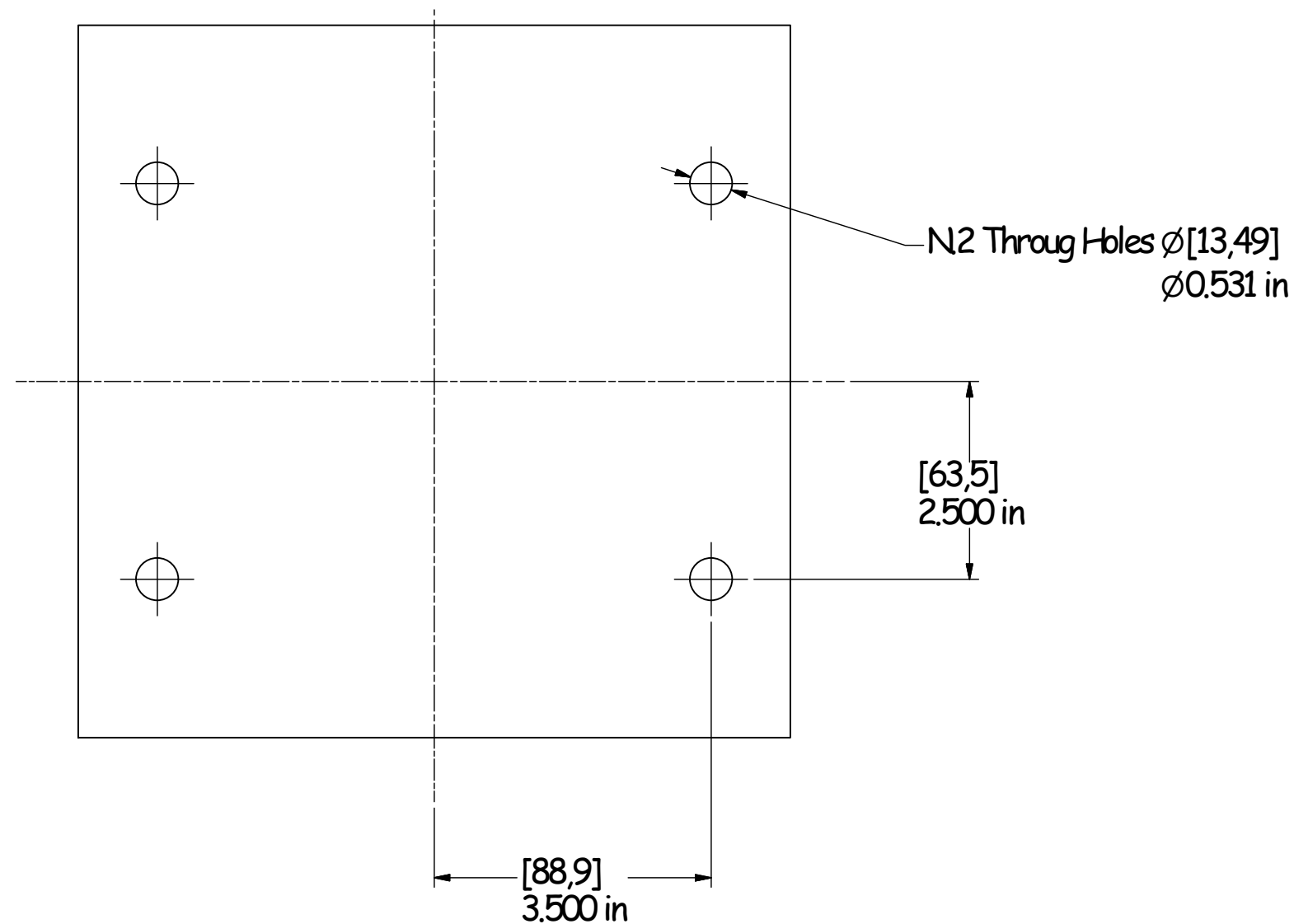
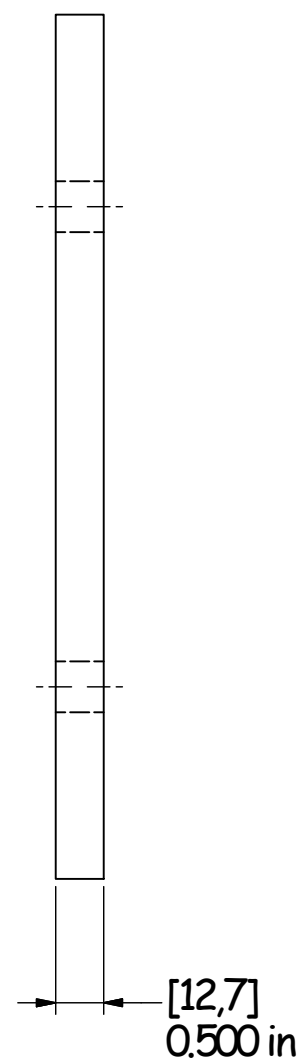
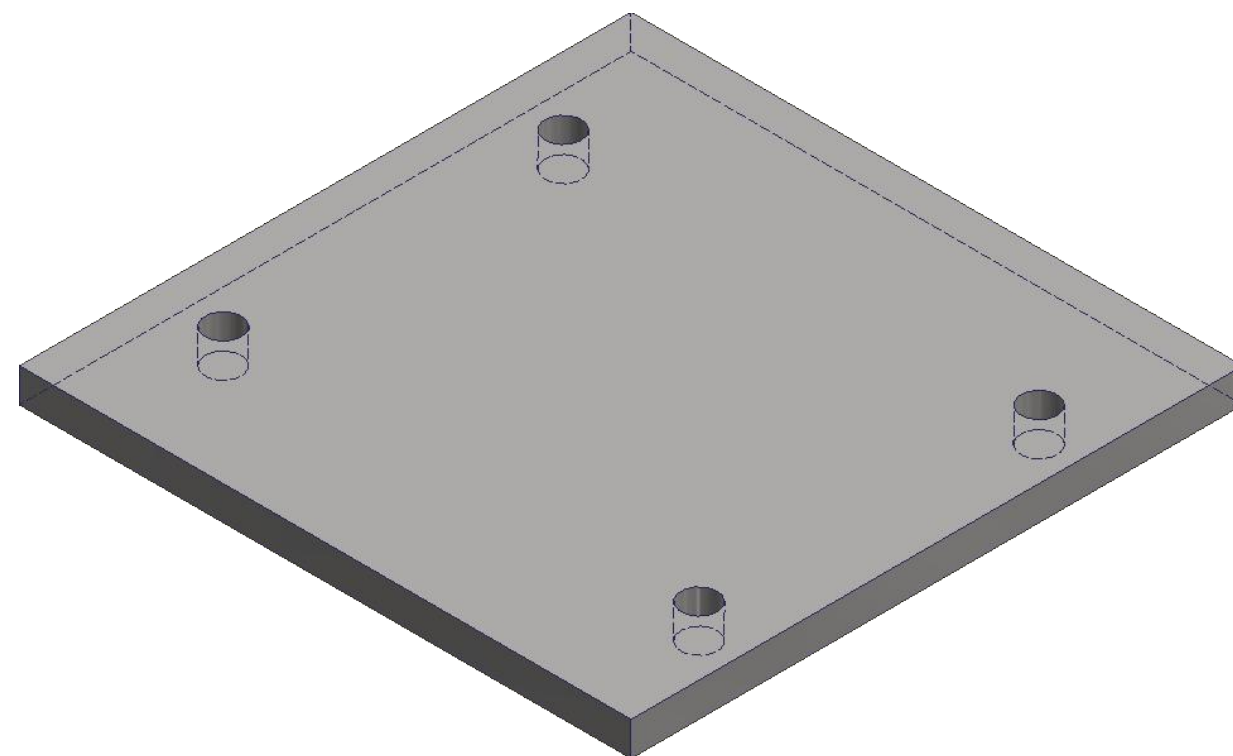
A3	DRAWING N.	REV
Foglio N	/	28/08/2017
4/17		



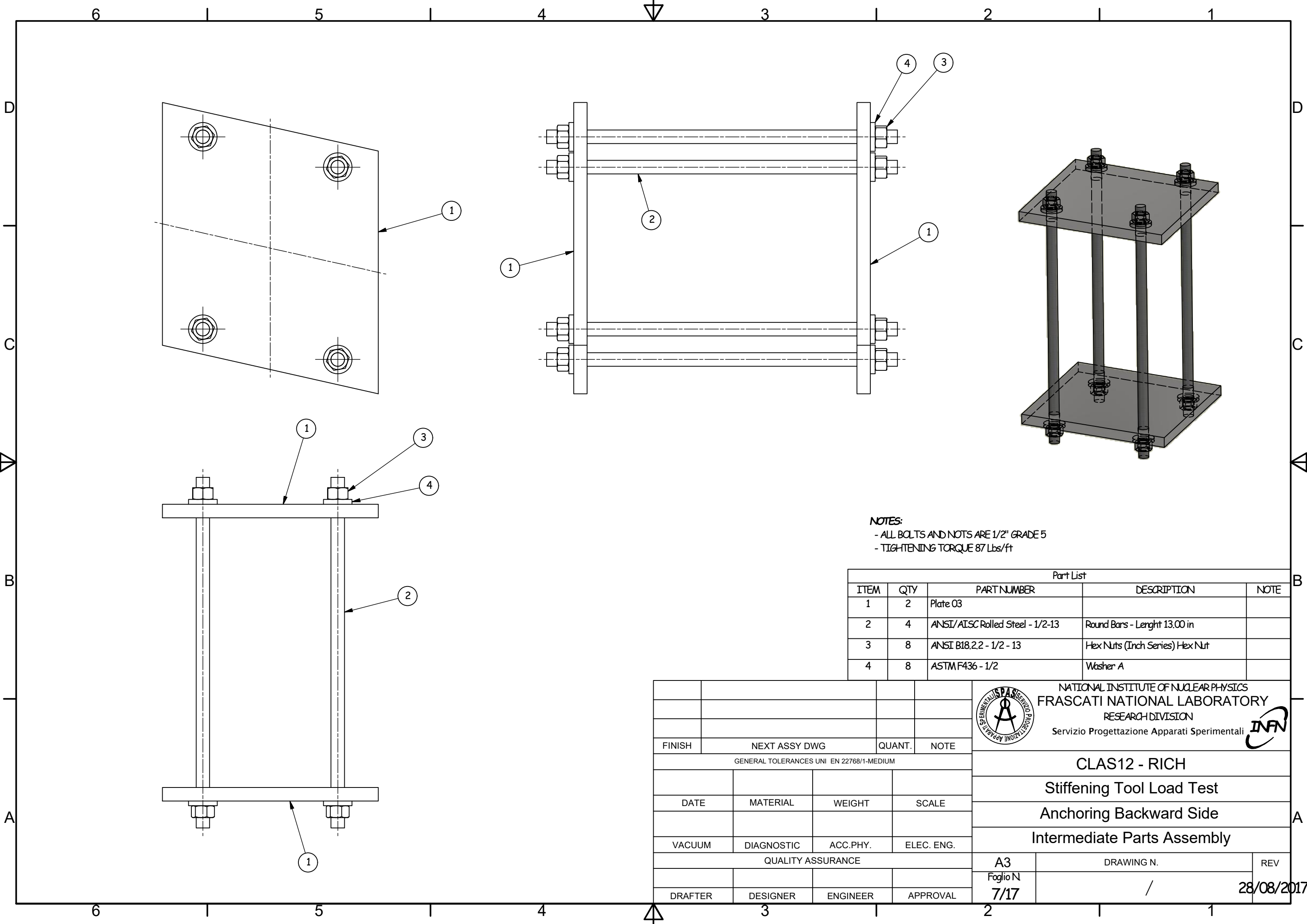
NOTES:
- ALL BOLTS AND NUTS ARE 1/2" GRADE 5
- TIGHTENING TORQUE 87 Lbs/ft

PART LIST				
ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	2	Plate 05		
2	4	ANSI/AISC Rolled Steel - 1/2-13	Round Bars - Length 13.00 in	
3	8	ANSI B18.2.2 - 1/2 - 13	Hex Nuts (Inch Series) Hex Nut	
4	8	ASTMF436 - 1/2	Washer A	

				SPAS APPLICAZIONE PROGETTAZIONE SERVIZIO NATIONAL INSTITUTE OF NUCLEAR PHYSICS FRASCATI NATIONAL LABORATORY RESEARCH DIVISION Servizio Progettazione Apparat Sperimentali INFN		
FINISH	NEXT ASSY DWG	QUANT.	NOTE			
GENERAL TOLERANCES UNI EN 22768/1-MEDIUM						
08/04/2017				CLAS12 - RICH		
DATE	MATERIAL	WEIGHT	SCALE	Stiffening Tool Load Test		
				Anchoring Backward Side		
VACUUM	DIAGNOSTIC	ACC.PHY.	ELEC. ENG.	Central Parts Assembly		
QUALITY ASSURANCE				A3	DRAWING N.	REV
	Sandro Tomassini			Foglio N		
DRAFTER	DESIGNER	ENGINEER	APPROVAL	5/17	/	28/08/20



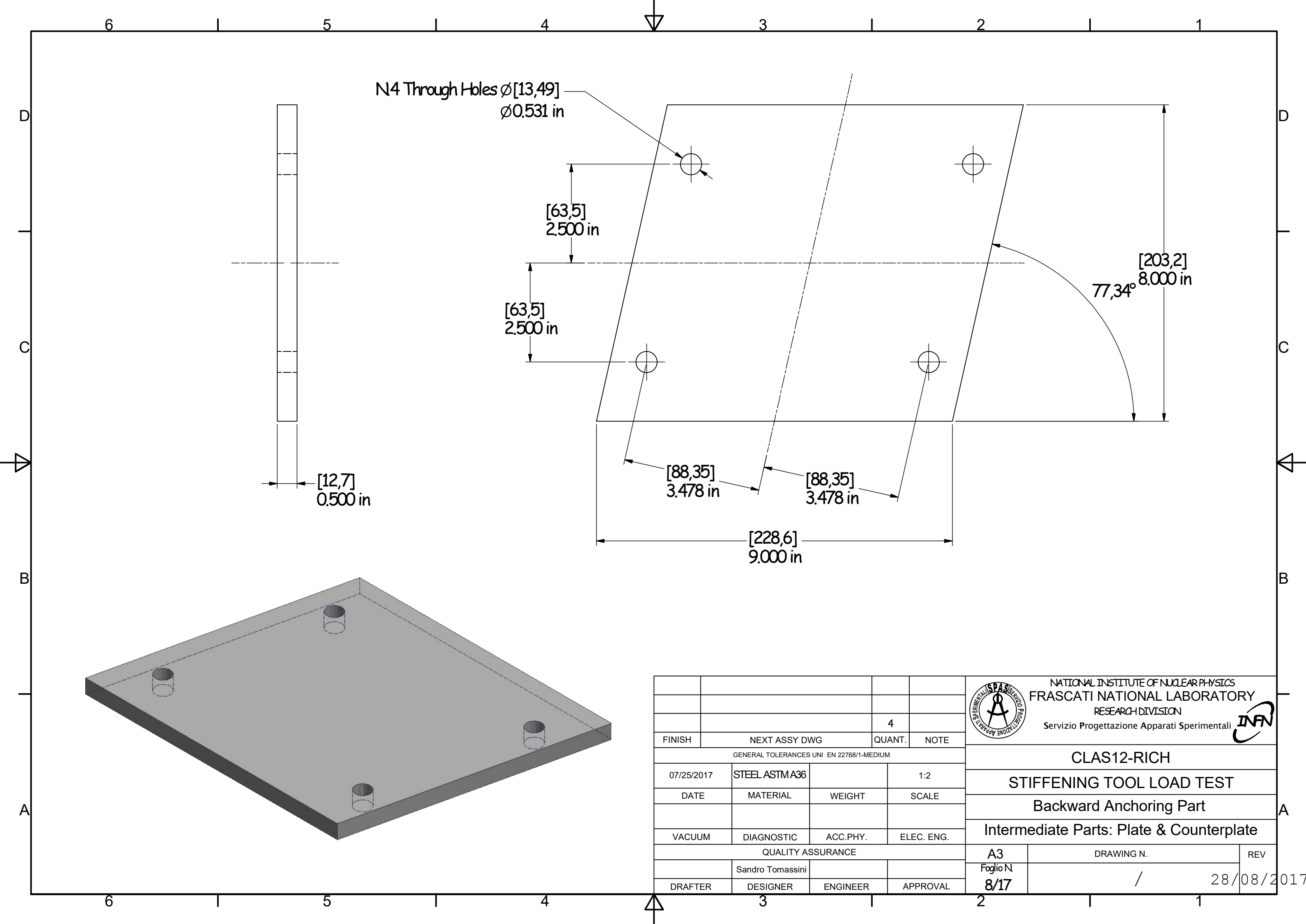
					NATIONAL INSTITUTE OF NUCLEAR PHYSICS FRASCATI NATIONAL LABORATORY RESEARCH DIVISION Servizio Progettazione Apparati Sperimentali		
		2					
FINISH	NEXT ASSY DWG	QUANT.	NOTE				
GENERAL TOLERANCES UNI EN 22768/1-MEDIUM							
07/25/2017	STEEL ASTM A36	5 Kg	1:2	CLAS12-RICH			A
DATE	MATERIAL	WEIGHT	SCALE	STIFFENING TOOL LOAD TEST			
				Backward Anchoring Part			
VACUUM	DIAGNOSTIC	ACC.PHY.	ELEC. ENG.	Central Parts: Plate & Counterplate_Part			
QUALITY ASSURANCE							
	Sandro Tommasini			A3	DRAWING N.	REV	
				Foglio N 6/17	/	28/08/2017	
DRAFTER	DESIGNER	ENGINEER	APPROVAL				

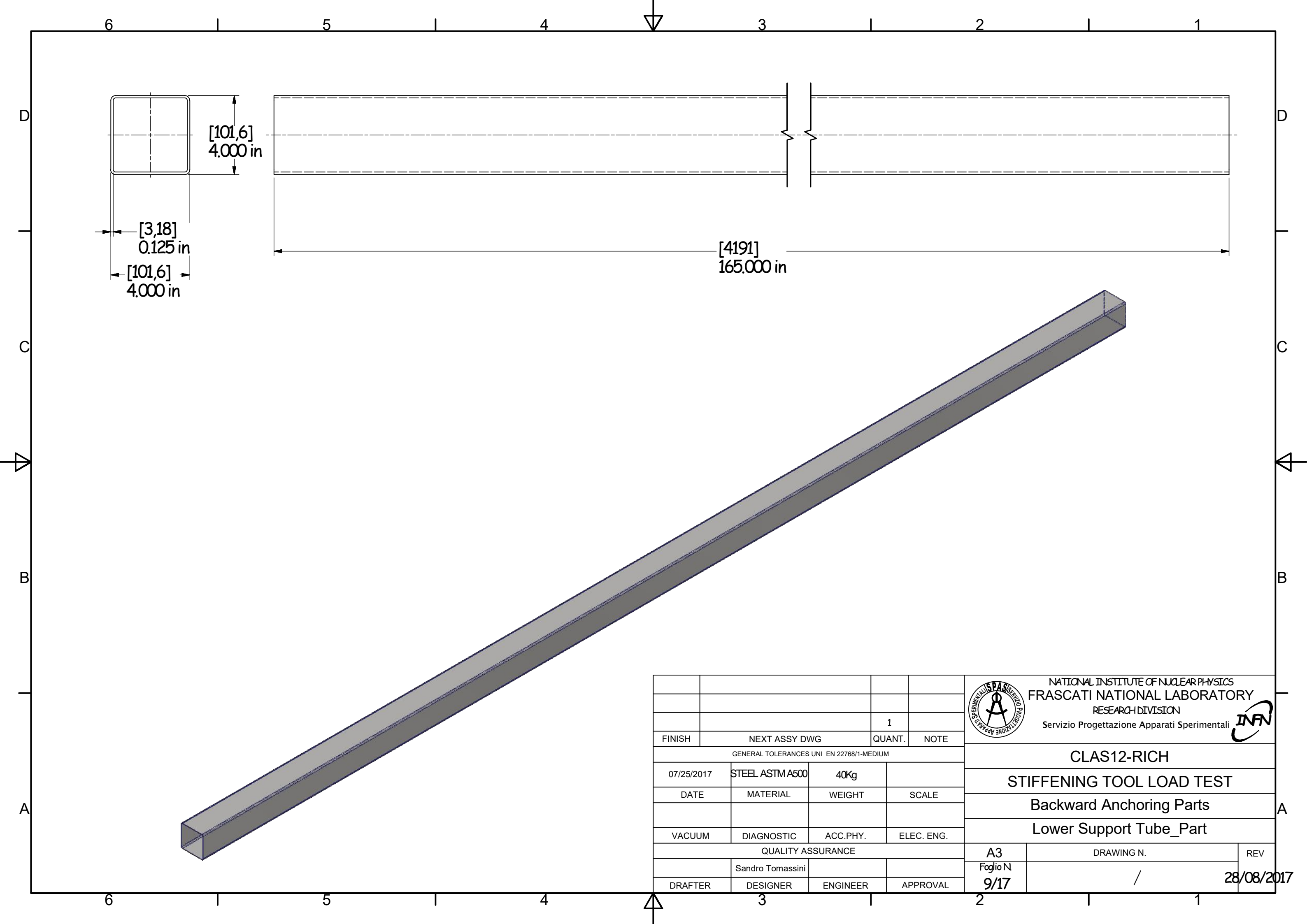


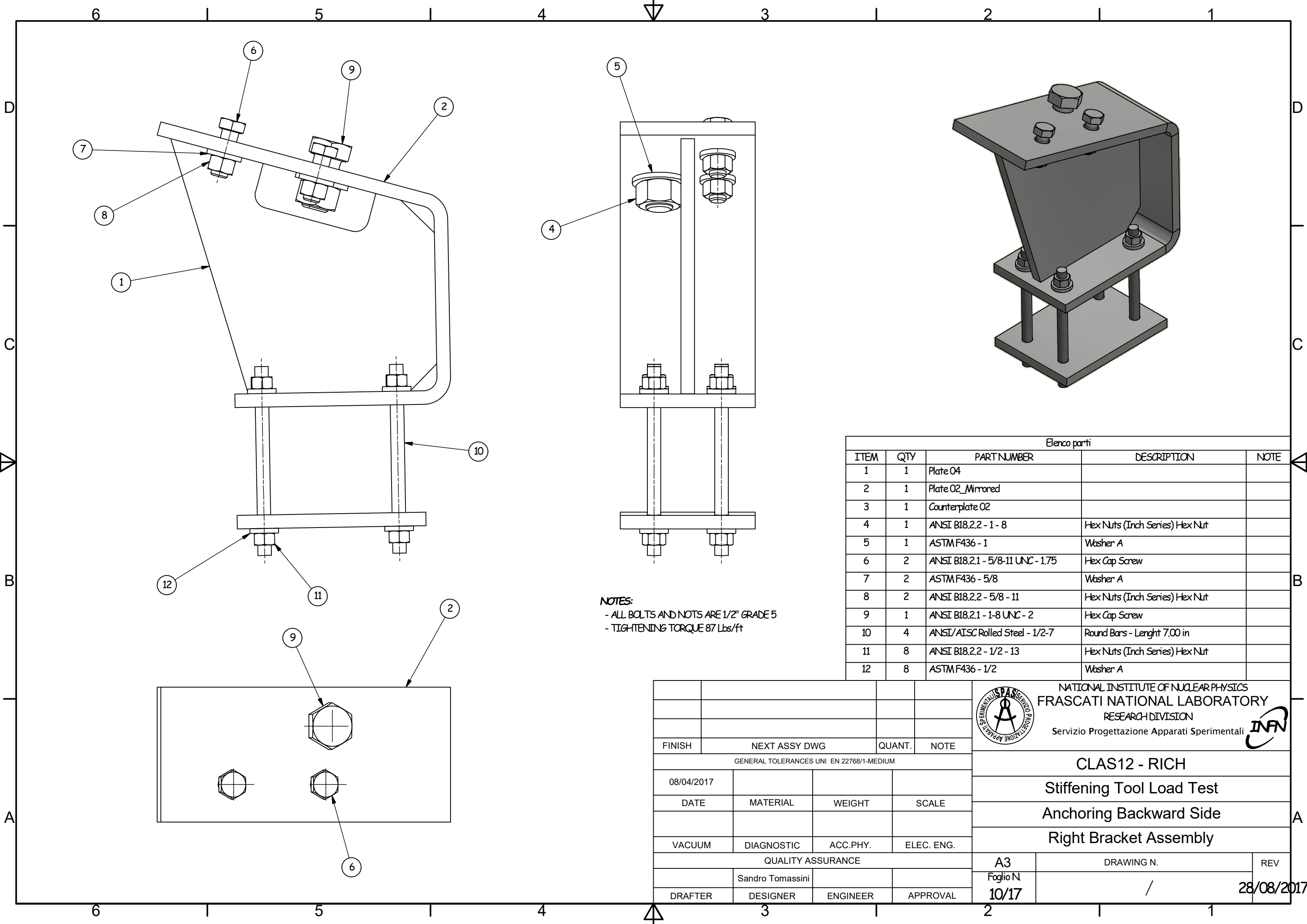
NOTES:
- ALL BOLTS AND NUTS ARE 1/2" GRADE 5
- TIGHTENING TORQUE 87 Lbs/ft

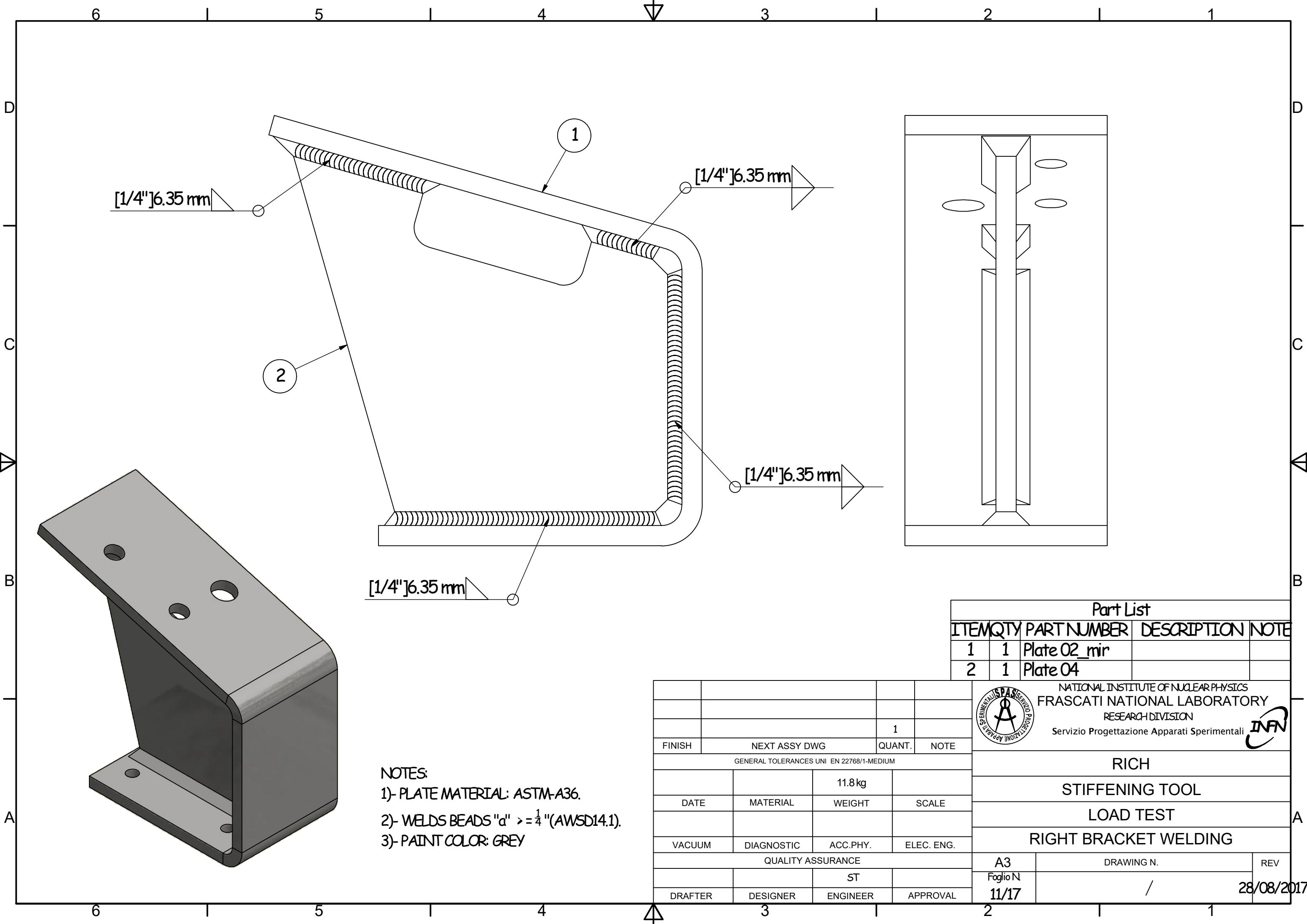
Part List				
ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	2	Plate 03		
2	4	ANSI/ AISC Rolled Steel - 1/2-13	Round Bars - Lenght 13.00 in	
3	8	ANSI B18.2.2 - 1/2 - 13	Hex Nuts (Inch Series) Hex Nut	
4	8	ASTM F436 - 1/2	Washer A	

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FINISH	NEXT ASSY DWG	QUANT.	NOTE			
GENERAL TOLERANCES UNI EN 22768/1-MEDIUM				CLAS12 - RICH Stiffening Tool Load Test Anchoring Backward Side Intermediate Parts Assembly		
DATE	MATERIAL	WEIGHT	SCALE			
VACUUM	DIAGNOSTIC	ACC.PHY.	ELEC. ENG.			
QUALITY ASSURANCE				A3	DRAWING N.	REV
				Foglio N		
				7/17	/	28/08/20
DRAFTER	DESIGNER	ENGINEER	APPROVAL			





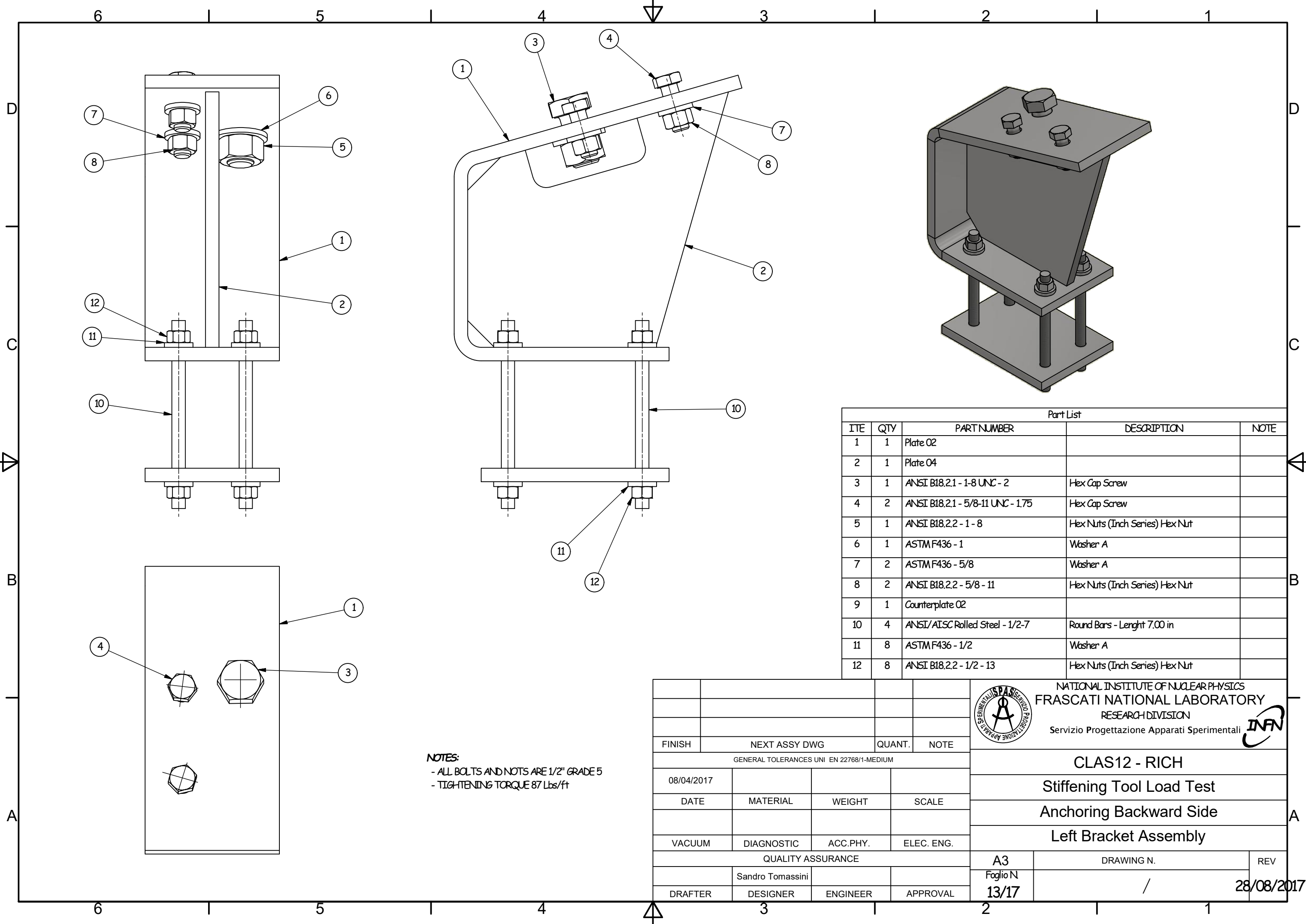




Part List				
ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	Plate 02_mir		
2	1	Plate 04		

NOTES:
1)- PLATE MATERIAL: ASTM-A36.
2)- WELDS BEADS "a" $\geq \frac{1}{4}$ " (AWS D14.1).
3)- PAINT COLOR: GREY

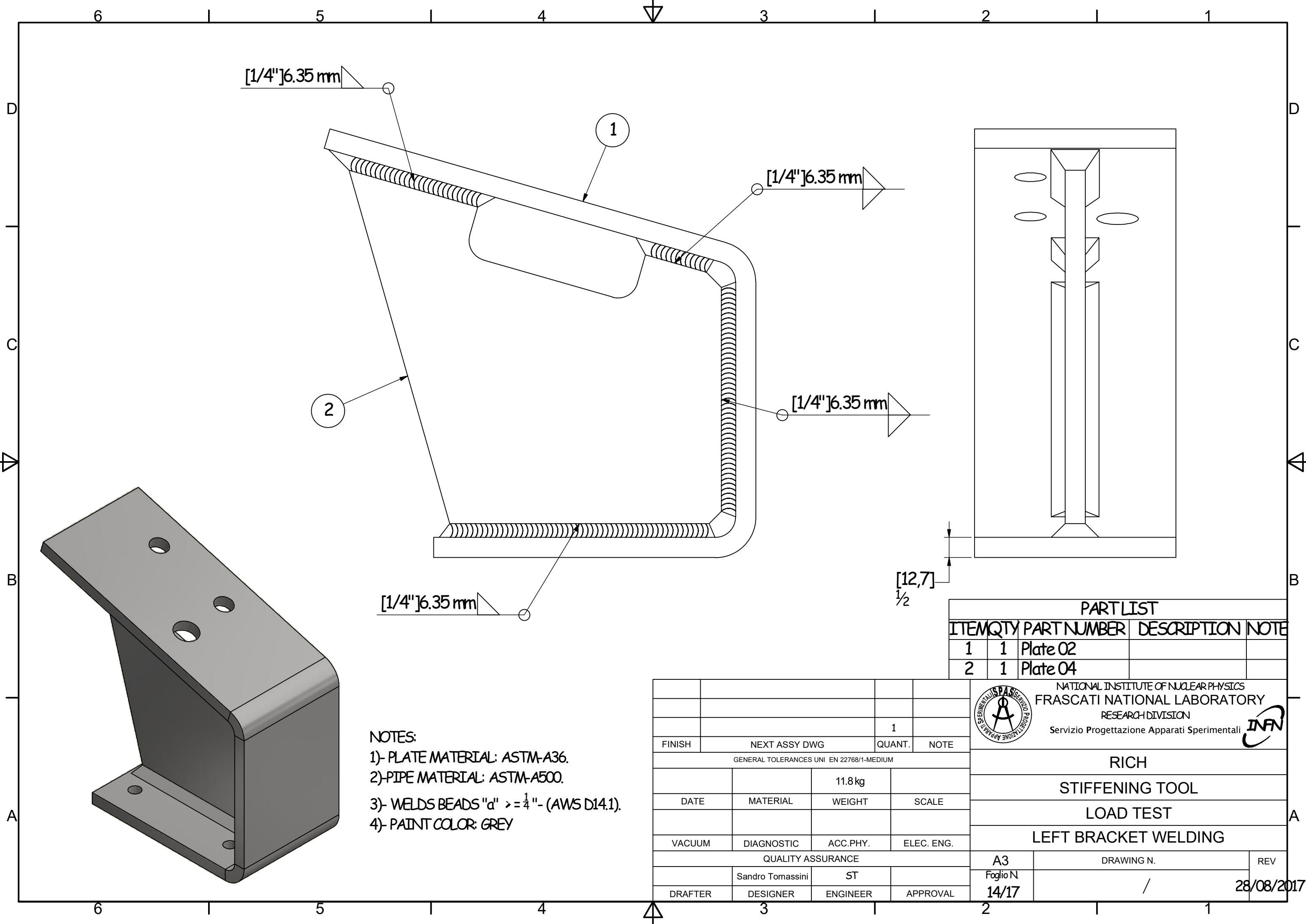
				NATIONAL INSTITUTE OF NUCLEAR PHYSICS FRASCATI NATIONAL LABORATORY RESEARCH DIVISION Servizio Progettazione Apparat Sperimentali		
				RICH		
				STIFFENING TOOL		
				LOAD TEST		
				RIGHT BRACKET WELDING		
				A3 Foglio N 11/17	DRAWING N. /	REV 28/08/2017
FINISH	NEXT ASSY DWG	QUANT.	NOTE			
GENERAL TOLERANCES UNI EN 22768/1-MEDIUM						
		11.8 kg				
DATE	MATERIAL	WEIGHT	SCALE			
VACUUM	DIAGNOSTIC	ACC.PHY.	ELEC. ENG.			
QUALITY ASSURANCE						
		ST				
DRAFTER	DESIGNER	ENGINEER	APPROVAL			



NOTES:
- ALL BOLTS AND NUTS ARE 1/2" GRADE 5
- TIGHTENING TORQUE 87 Lbs/ft

Part List				
ITE	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	Plate 02		
2	1	Plate 04		
3	1	ANSI B18.2.1 - 1-8 UNC - 2	Hex Cap Screw	
4	2	ANSI B18.2.1 - 5/8-11 UNC - 1.75	Hex Cap Screw	
5	1	ANSI B18.2.2 - 1 - 8	Hex Nuts (Inch Series) Hex Nut	
6	1	ASTM F436 - 1	Washer A	
7	2	ASTM F436 - 5/8	Washer A	
8	2	ANSI B18.2.2 - 5/8 - 11	Hex Nuts (Inch Series) Hex Nut	
9	1	Counterplate 02		
10	4	ANSI/ATSC Rolled Steel - 1/2-7	Round Bars - Length 7.00 in	
11	8	ASTM F436 - 1/2	Washer A	
12	8	ANSI B18.2.2 - 1/2 - 13	Hex Nuts (Inch Series) Hex Nut	

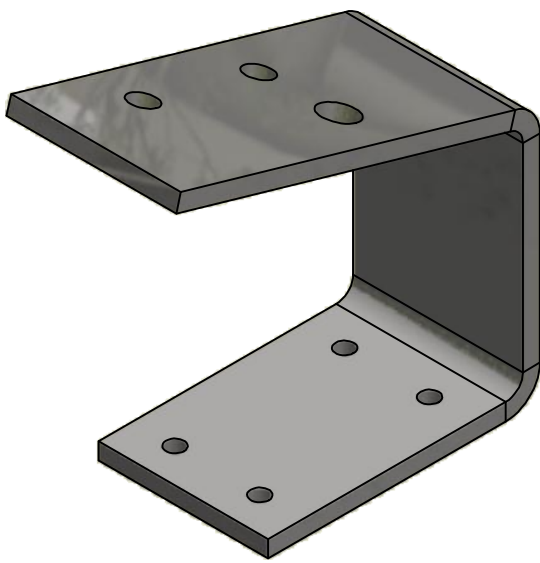
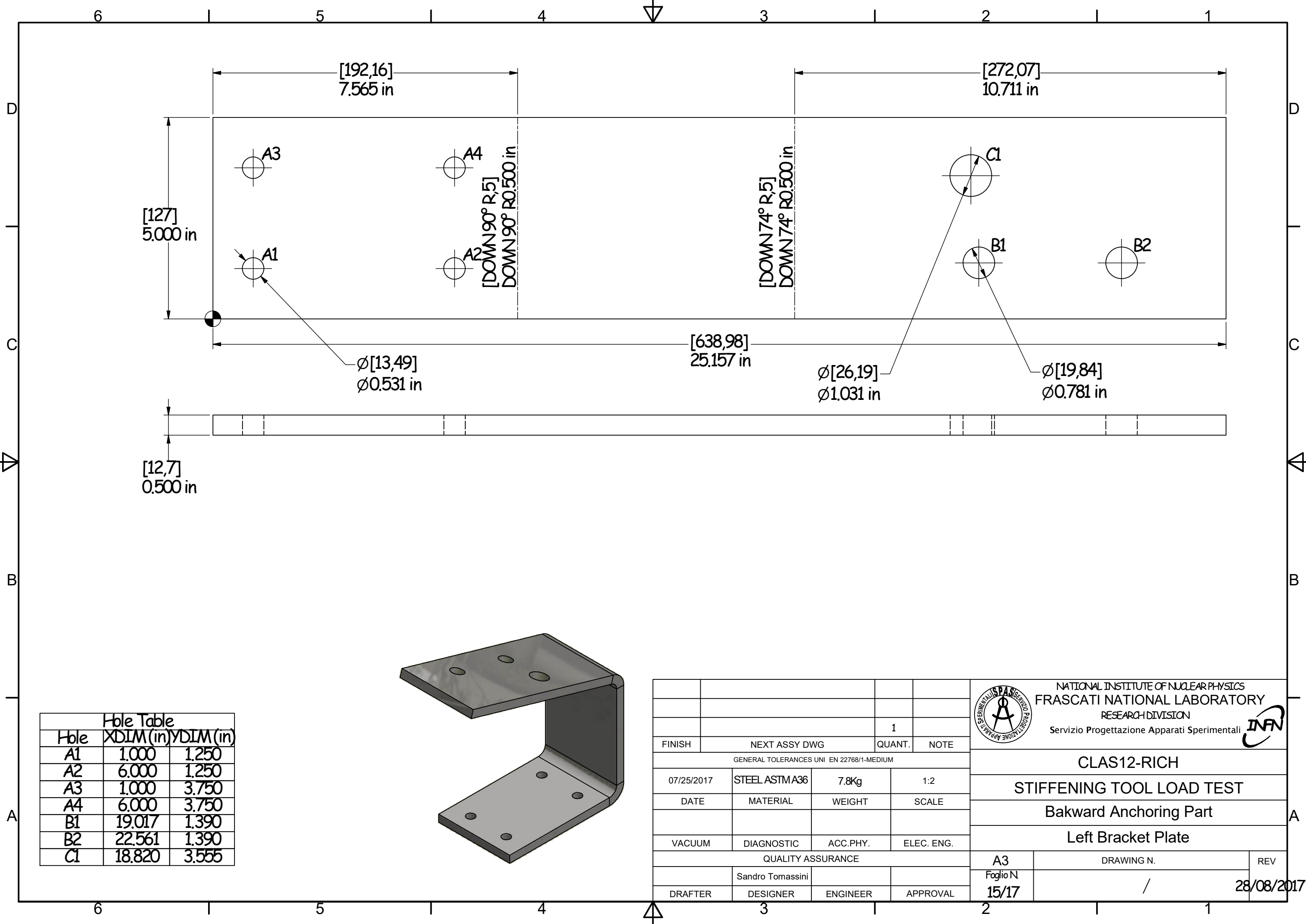
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FINISH	NEXT ASSY DWG	QUANT.	NOTE			
GENERAL TOLERANCES UNI EN 22768/1-MEDIUM						
08/04/2017				CLAS12 - RICH		
DATE	MATERIAL	WEIGHT	SCALE	Stiffening Tool Load Test		
				Anchoring Backward Side		
VACUUM	DIAGNOSTIC	ACC.PHY.	ELEC. ENG.	Left Bracket Assembly		
QUALITY ASSURANCE				A3	DRAWING N.	REV
	Sandro Tomassini			Foglio N		
DRAFTER	DESIGNER	ENGINEER	APPROVAL	13/17	/	28/08/2017



NOTES:
1)- PLATE MATERIAL: ASTM-A36.
2)- PIPE MATERIAL: ASTM-A500.
3)- WELDS BEADS "α" $\geq \frac{1}{4}$ " - (AWS D14.1).
4)- PAINT COLOR: GREY

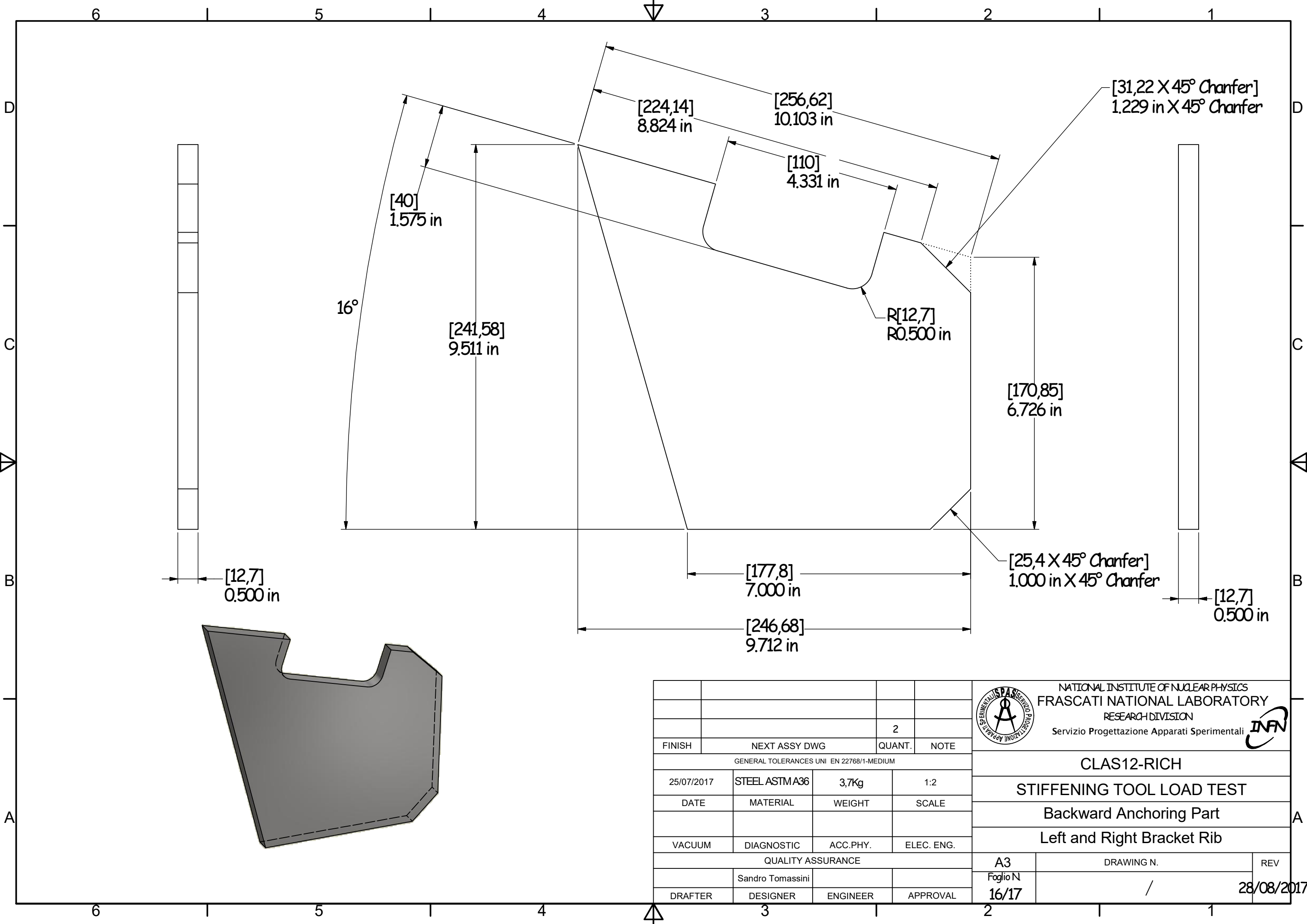
PART LIST				
ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	Plate 02		
2	1	Plate 04		

				NATIONAL INSTITUTE OF NUCLEAR PHYSICS FRASCATI NATIONAL LABORATORY RESEARCH DIVISION Servizio Progettazione Apparatı Sperimentali		
FINISH	NEXT ASSY DWG	QUANT.	NOTE			
GENERAL TOLERANCES UNI EN 22768/1-MEDIUM				RICH		
		11.8 kg		STIFFENING TOOL		
DATE	MATERIAL	WEIGHT	SCALE	LOAD TEST		
				LEFT BRACKET WELDING		
VACUUM	DIAGNOSTIC	ACC.PHY.	ELEC. ENG.			
QUALITY ASSURANCE				A3	DRAWING N.	REV
	Sandro Tomassini	ST		Foglio N.	/	28/08/2017
DRAFTER	DESIGNER	ENGINEER	APPROVAL	14/17		

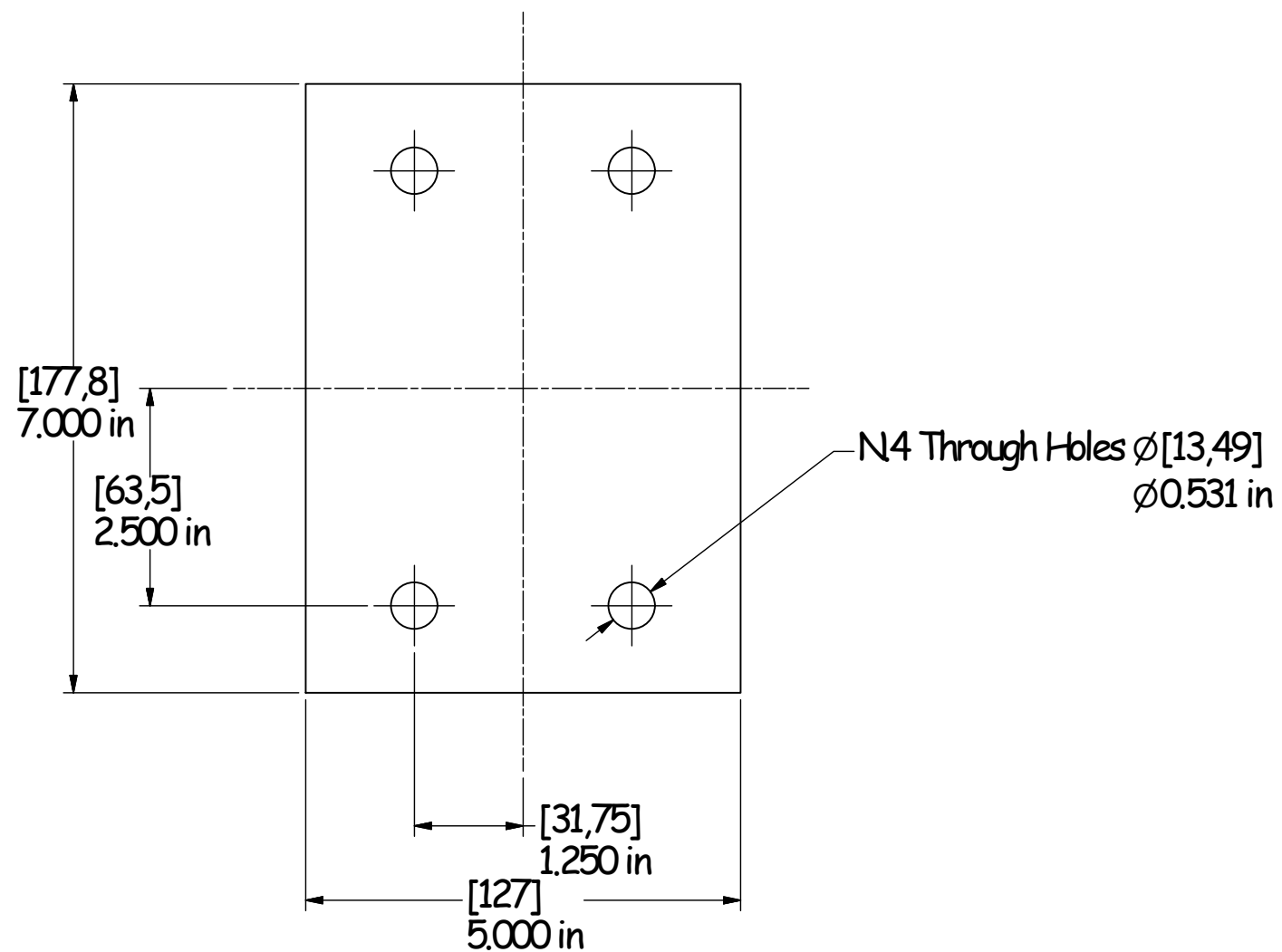
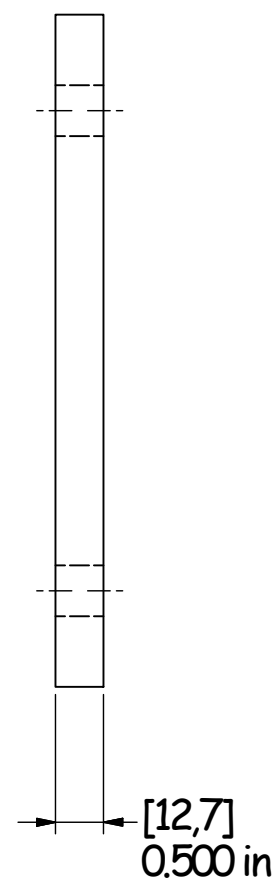
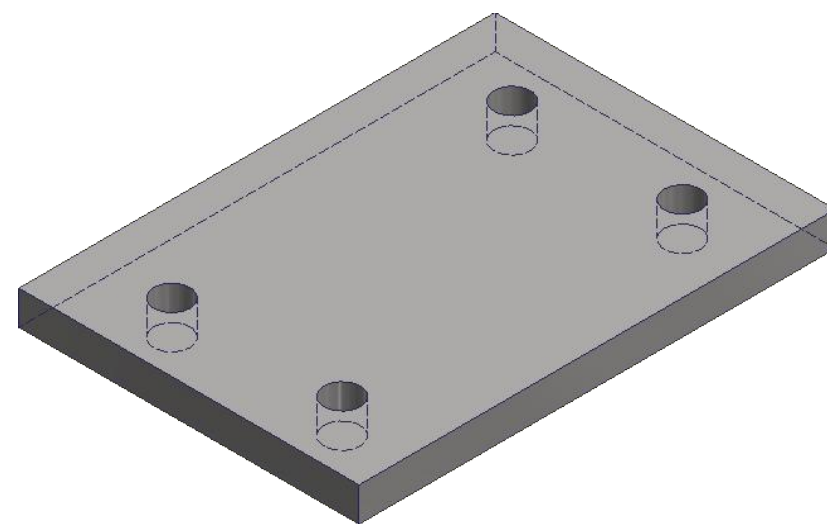


Hole Table		
Hole	XDIM(in)	YDIM(in)
A1	1.000	1.250
A2	6.000	1.250
A3	1.000	3.750
A4	6.000	3.750
B1	19.017	1.390
B2	22.561	1.390
C1	18.820	3.555

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		1						
FINISH	NEXT ASSY DWG	QUANT.	NOTE					
GENERAL TOLERANCES UNI EN 22768/1-MEDIUM								
07/25/2017	STEEL ASTM A36	7.8Kg	1:2	CLAS12-RICH				A
DATE	MATERIAL	WEIGHT	SCALE	STIFFENING TOOL LOAD TEST				
				Bakward Anchoring Part				
VACUUM	DIAGNOSTIC	ACC.PHY.	ELEC. ENG.	Left Bracket Plate				
QUALITY ASSURANCE				A3	DRAWING N.	REV		
	Sandro Tomassini			Foglio N 15/17	/	28/08/2017		
DRAFTER	DESIGNER	ENGINEER	APPROVAL					



					NATIONAL INSTITUTE OF NUCLEAR PHYSICS FRASCATI NATIONAL LABORATORY RESEARCH DIVISION Servizio Progettazione Apparat		
		2					
FINISH	NEXT ASSY DWG	QUANT.	NOTE				
GENERAL TOLERANCES UNI EN 22768/1-MEDIUM				CLAS12-RICH			
25/07/2017	STEEL ASTM A36	3,7Kg	1:2	STIFFENING TOOL LOAD TEST			
DATE	MATERIAL	WEIGHT	SCALE	Backward Anchoring Part			
				Left and Right Bracket Rib			
VACUUM	DIAGNOSTIC	ACC.PHY.	ELEC. ENG.				
QUALITY ASSURANCE				A3	DRAWING N.	REV	
	Sandro Tomassini			Foglio N 16/17	/	28/08/2017	
DRAFTER	DESIGNER	ENGINEER	APPROVAL				



					NATIONAL INSTITUTE OF NUCLEAR PHYSICS FRASCATI NATIONAL LABORATORY RESEARCH DIVISION Servizio Progettazione Apparati Sperimentali		
		2					
FINISH	NEXT ASSY DWG	QUANT.	NOTE				
GENERAL TOLERANCES UNI EN 22768/1-MEDIUM				CLAS12-RICH			
07/25/2017	STEEL ASTM A36	2.2Kg	1:2	STIFFENING TOOL LOAD TEST			
DATE	MATERIAL	WEIGHT	SCALE	Backward Anchoring Part			
				Left and Right Bracket Counterplate			
VACUUM	DIAGNOSTIC	ACC.PHY.	ELEC. ENG.				
QUALITY ASSURANCE							
	Sandro Tommasini			A3	DRAWING N.	REV	
				Foglio N.			
DRAFTER	DESIGNER	ENGINEER	APPROVAL	17/17	/	28/08/2017	