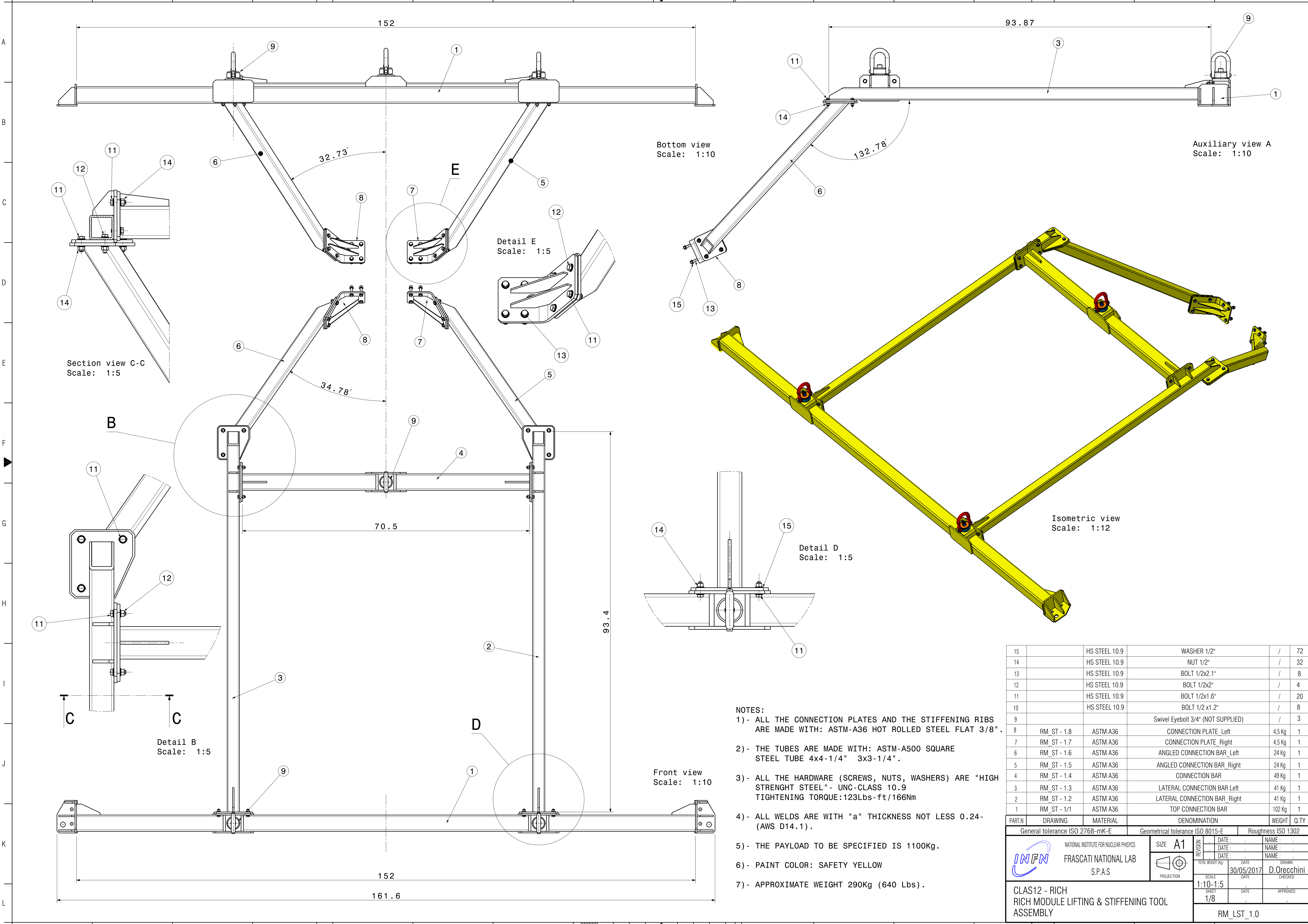
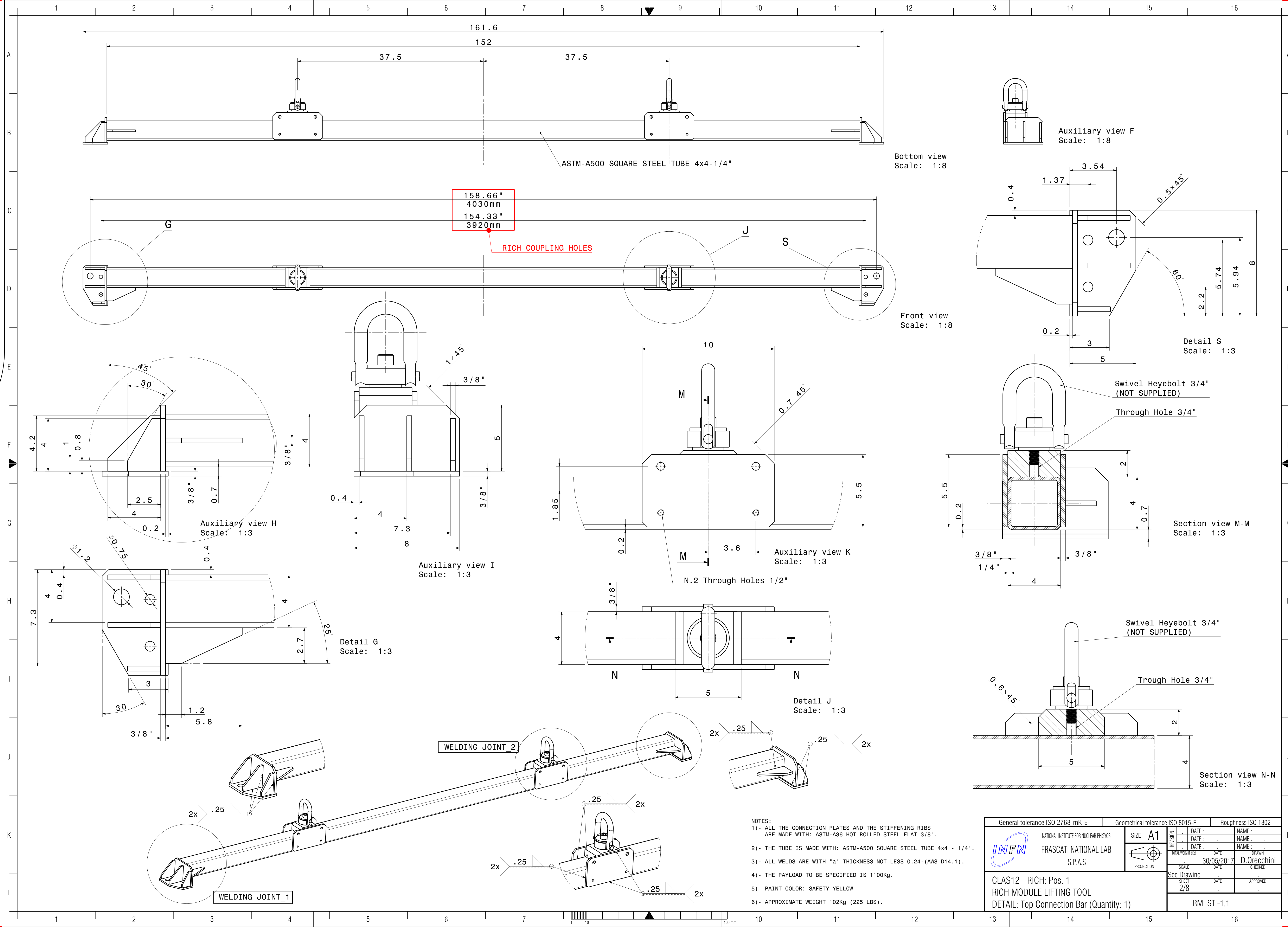
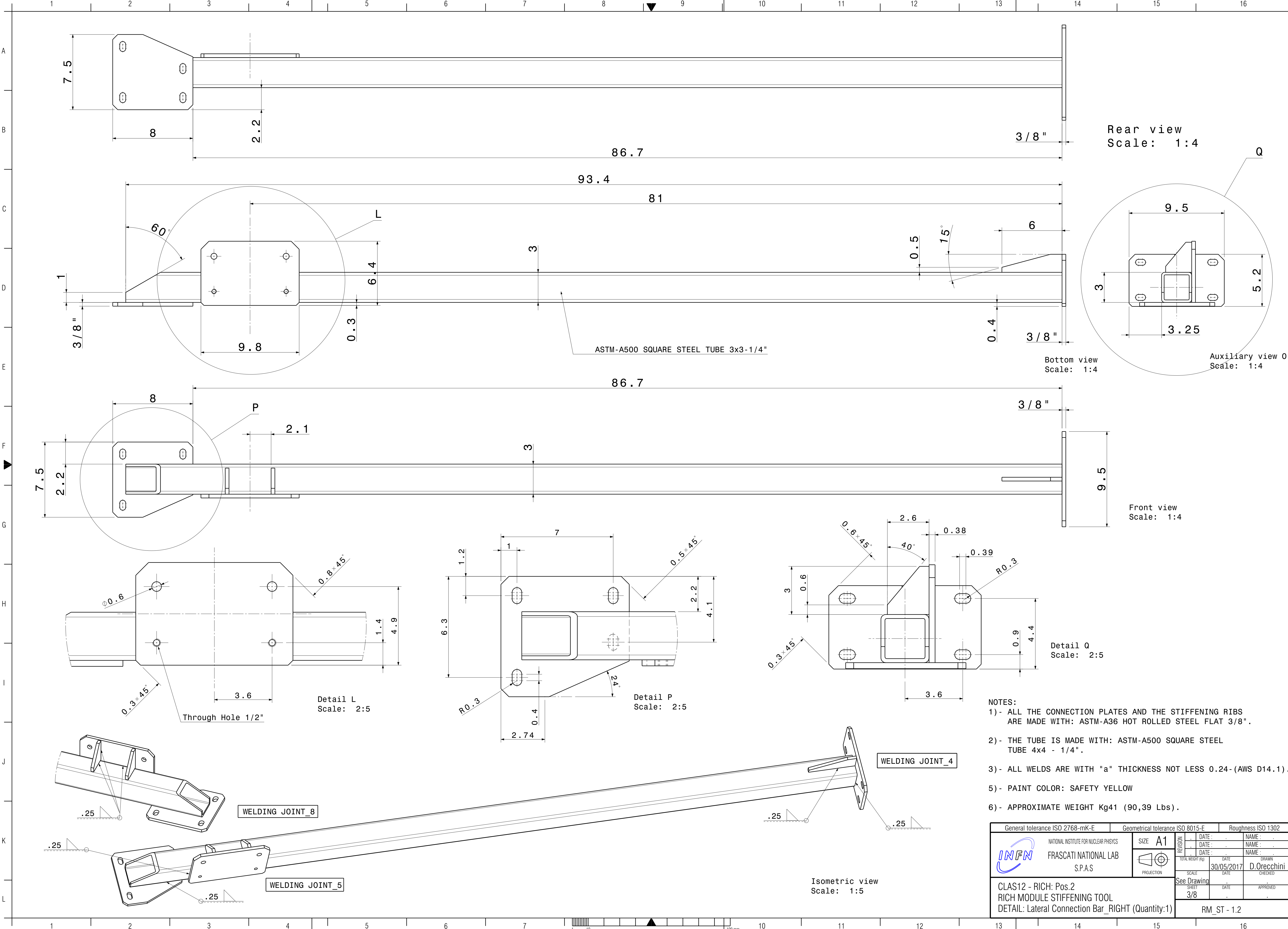




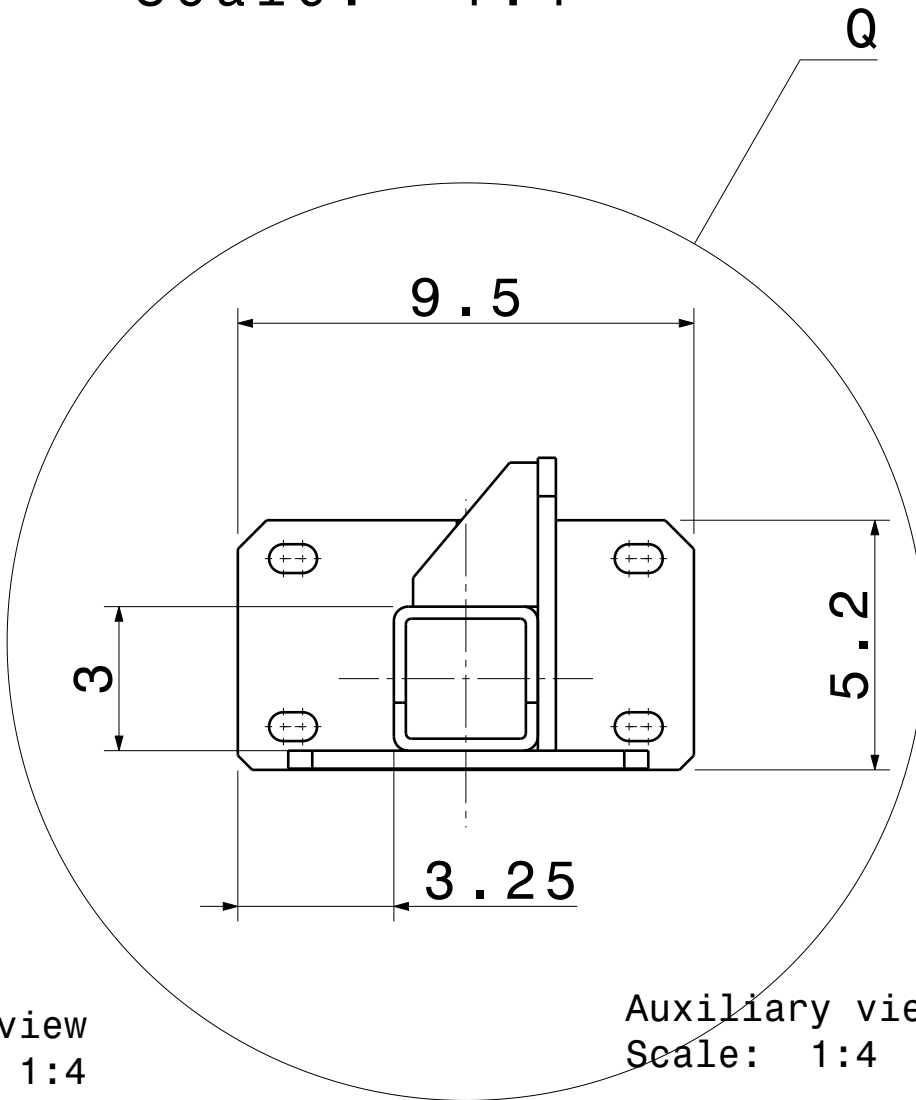
- NOTES:
- 1)- ALL THE CONNECTION PLATES AND THE STIFFENING RIBS ARE MADE WITH: ASTM-A36 HOT ROLLED STEEL FLAT 3/8".
 - 2)- THE TUBES ARE MADE WITH: ASTM-A500 SQUARE STEEL TUBE 4x4-1/4" 3x3-1/4".
 - 3)- ALL THE HARDWARE (SCREWS, NUTS, WASHERS) ARE "HIGH STRENGTH STEEL"- UNC-CLASS 10.9 TIGHTENING TORQUE:123Lbs-ft/166Nm
 - 4)- ALL WELDS ARE WITH "a" THICKNESS NOT LESS 0.24-(AWS D14.1).
 - 5)- THE PAYLOAD TO BE SPECIFIED IS 1100Kg.
 - 6)- PAINT COLOR: SAFETY YELLOW
 - 7)- APPROXIMATE WEIGHT 290Kg (640 Lbs).

15		HS STEEL 10.9	WASHER 1/2"	/	72
14		HS STEEL 10.9	NUT 1/2"	/	32
13		HS STEEL 10.9	BOLT 1/2x2.1"	/	8
12		HS STEEL 10.9	BOLT 1/2x2"	/	4
11		HS STEEL 10.9	BOLT 1/2x1.6"	/	20
10		HS STEEL 10.9	BOLT 1/2 x1.2"	/	8
9			Swivel Eyebolt 3/4" (NOT SUPPLIED)	/	3
8	RM_ST - 1.8	ASTM A36	CONNECTION PLATE_Left	4.5 Kg	1
7	RM_ST - 1.7	ASTM A36	CONNECTION PLATE_Right	4.5 Kg	1
6	RM_ST - 1.6	ASTM A36	ANGLED CONNECTION BAR_Left	24 Kg	1
5	RM_ST - 1.5	ASTM A36	ANGLED CONNECTION BAR_Right	24 Kg	1
4	RM_ST - 1.4	ASTM A36	CONNECTION BAR	49 Kg	1
3	RM_ST - 1.3	ASTM A36	LATERAL CONNECTION BAR_Left	41 Kg	1
2	RM_ST - 1.2	ASTM A36	LATERAL CONNECTION BAR_Right	41 Kg	1
1	RM_ST - 1/1	ASTM A36	TOP CONNECTION BAR	102 Kg	1
PART.N	DRAWING	MATERIAL	DENOMINATION	WEIGHT	Q.TY
General tolerance ISO 2768-mK-E			Geometrical tolerance ISO 8015-E	Roughness ISO 1302	
 NATIONAL INSTITUTE FOR NUCLEAR PHYSICS FRASCATI NATIONAL LAB S.P.A.S			SIZE	A1	REVISION
			PROJECTION		DATE: . . . NAME: . . . DATE: . . . NAME: . . .
CLAS12 - RICH RICH MODULE LIFTING & STIFFENING TOOL ASSEMBLY			SCALE	1:10-1:5	DATE: 30/05/2017 DRAWN: D.Orecchini
			SHEET	1/8	CHECKED: . . . APPROVED: . . .
RM_LST_1.0					





Rear view
Scale: 1:4



Auxiliary view Q
Scale: 1:4

Bottom view
Scale: 1:4

Front view
Scale: 1:4

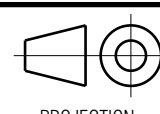
Detail Q
Scale: 2:5

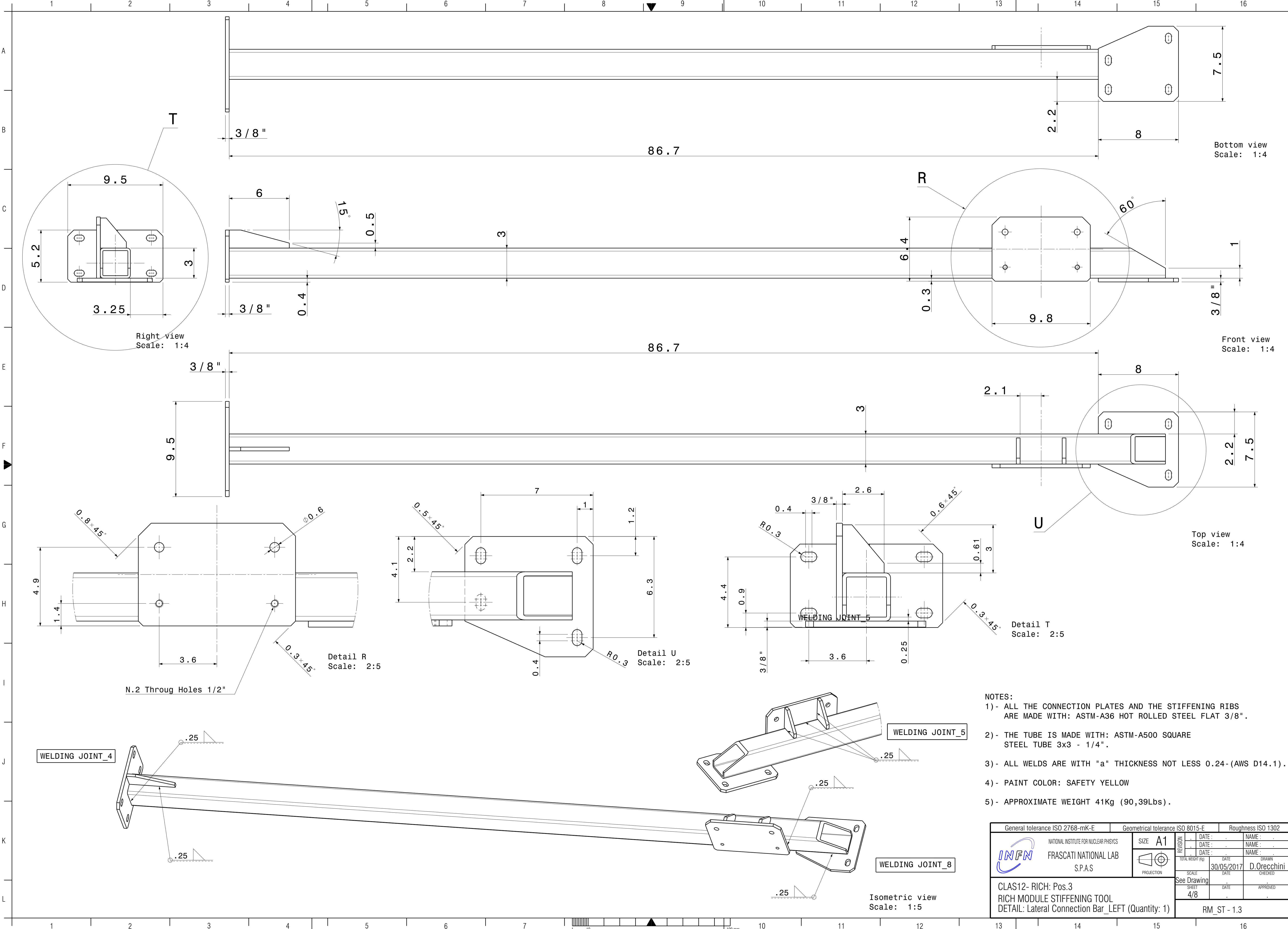
Detail P
Scale: 2:5

Detail L
Scale: 2:5

Isometric view
Scale: 1:5

- NOTES:
- 1)- ALL THE CONNECTION PLATES AND THE STIFFENING RIBS ARE MADE WITH: ASTM-A36 HOT ROLLED STEEL FLAT 3/8".
 - 2)- THE TUBE IS MADE WITH: ASTM-A500 SQUARE STEEL TUBE 4x4 - 1/4".
 - 3)- ALL WELDS ARE WITH "a" THICKNESS NOT LESS 0.24-(AWS D14.1).
 - 5)- PAINT COLOR: SAFETY YELLOW
 - 6)- APPROXIMATE WEIGHT Kg41 (90,39 Lbs).

General tolerance ISO 2768-mK-E		Geometrical tolerance ISO 8015-E		Roughness ISO 1302	
 NATIONAL INSTITUTE FOR NUCLEAR PHYSICS FRASCATI NATIONAL LAB S.P.A.S	SIZE A1  PROJECTION	REVISION	DATE	NAME	
			DATE	NAME	
			DATE	NAME	
			DATE	NAME	
			DATE	NAME	
CLAS12 - RICH: Pos.2 RICH MODULE STIFFENING TOOL DETAIL: Lateral Connection Bar_RIGHT (Quantity:1)		TOTAL WEIGHT (kg)		DATE	DRAWN
				30/05/2017	D.Orecchini
		SCALE		DATE	CHECKED
		See Drawing			
		SHEET	DATE	APPROVED	
		3/8			
		RM_ST - 1.2			



- NOTES:
- 1)- ALL THE CONNECTION PLATES AND THE STIFFENING RIBS ARE MADE WITH: ASTM-A36 HOT ROLLED STEEL FLAT 3/8".
 - 2)- THE TUBE IS MADE WITH: ASTM-A500 SQUARE STEEL TUBE 3x3 - 1/4".
 - 3)- ALL WELDS ARE WITH "a" THICKNESS NOT LESS 0.24-(AWS D14.1).
 - 4)- PAINT COLOR: SAFETY YELLOW
 - 5)- APPROXIMATE WEIGHT 41Kg (90,39Lbs).

General tolerance ISO 2768-mK-E		Geometrical tolerance ISO 8015-E		Roughness ISO 1302	
 NATIONAL INSTITUTE FOR NUCLEAR PHYSICS FRASCATI NATIONAL LAB S.P.A.S		SIZE A1  PROJECTION	REVISION	DATE	NAME
				DATE	NAME
				DATE	NAME
				DATE	NAME
CLAS12- RICH: Pos.3 RICH MODULE STIFFENING TOOL DETAIL: Lateral Connection Bar_ LEFT (Quantity: 1)			See Drawing	TOTAL WEIGHT (kg)	DRAWN
				30/05/2017	D.Orecchini
				SCALE	CHECKED
				SHEET	APPROVED
				4/8	
		RM_ST - 1.3			

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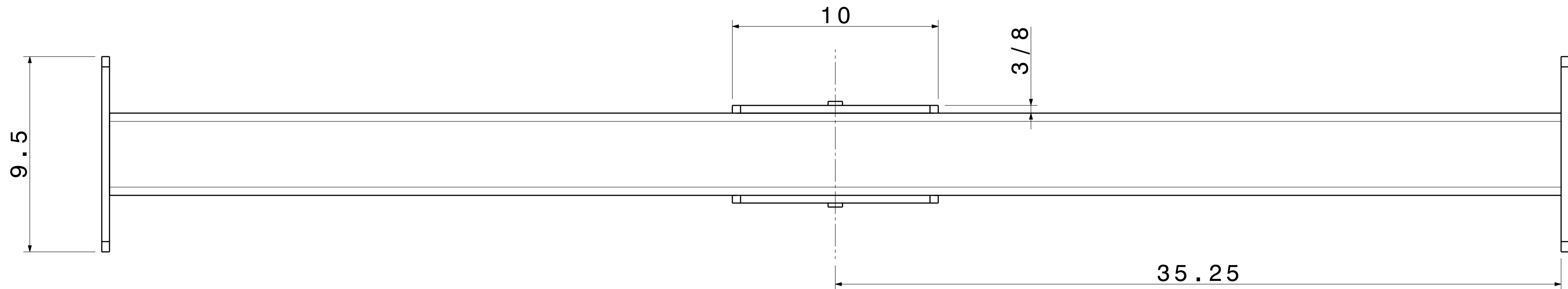
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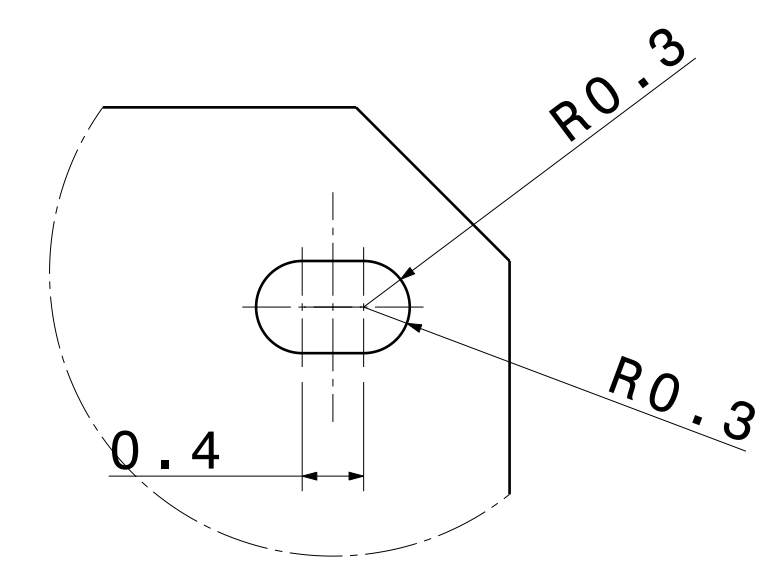
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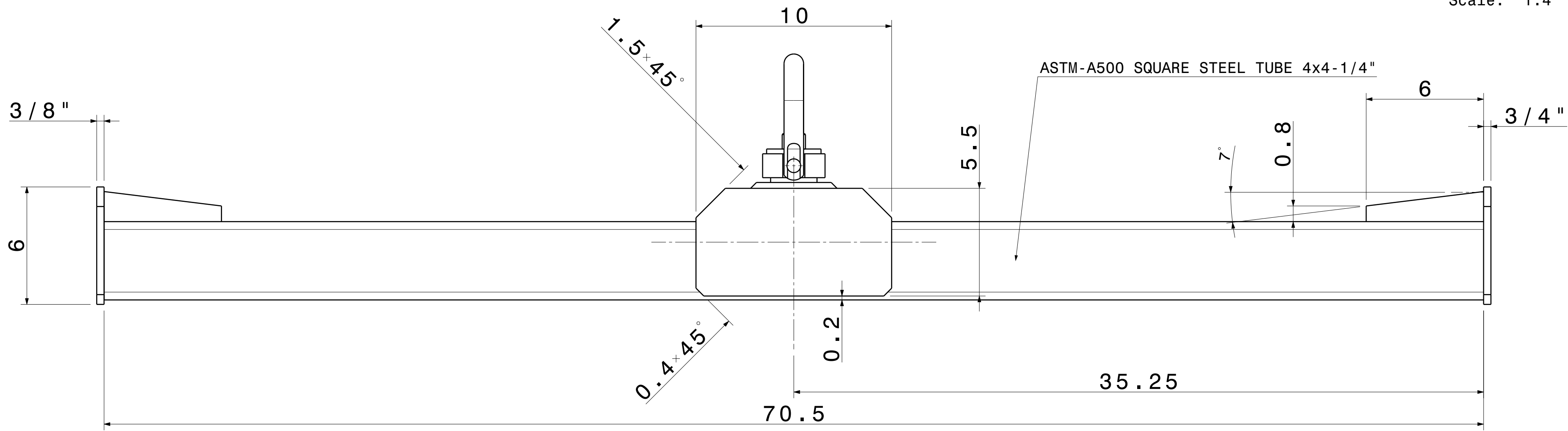
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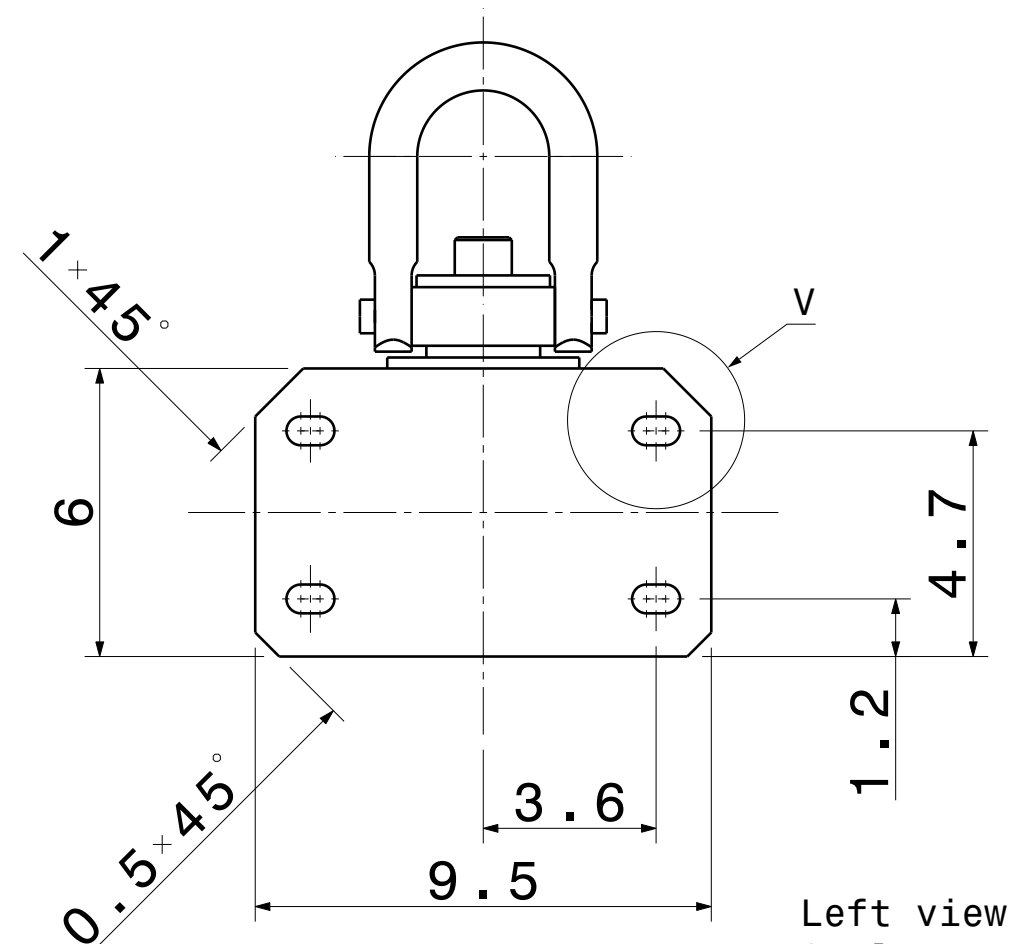
Bottom view
Scale: 1:4



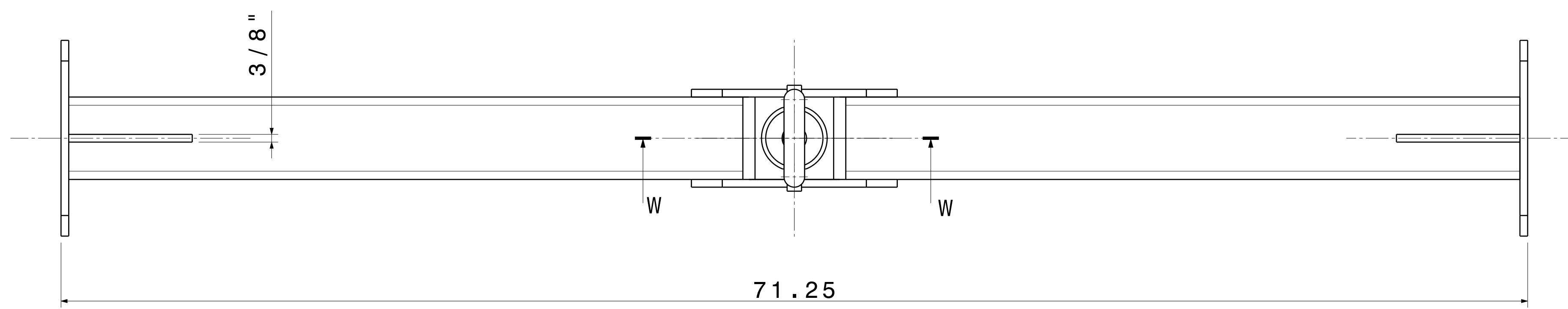
Detail V
Scale: 4:5



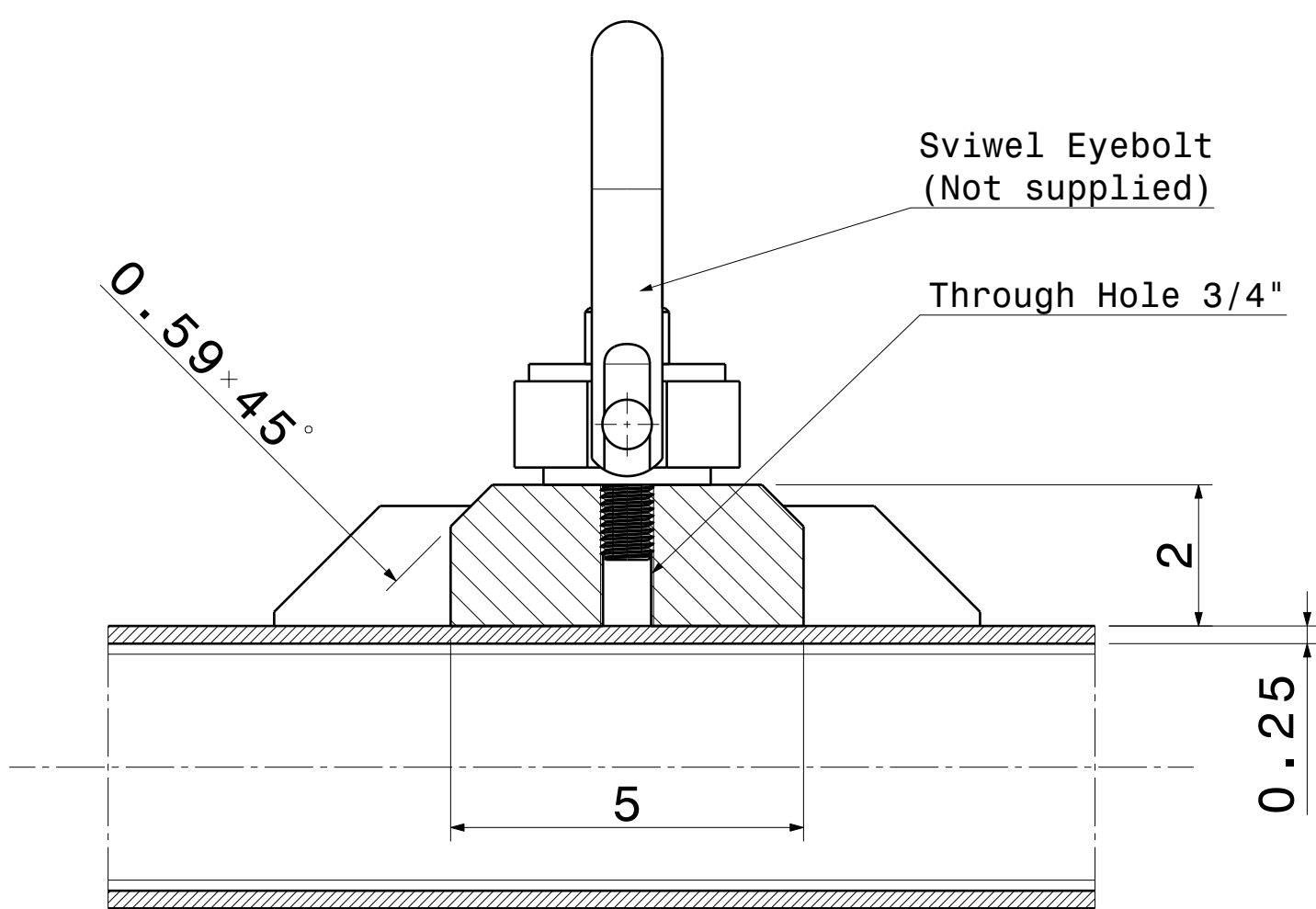
Front view
Scale: 1:4



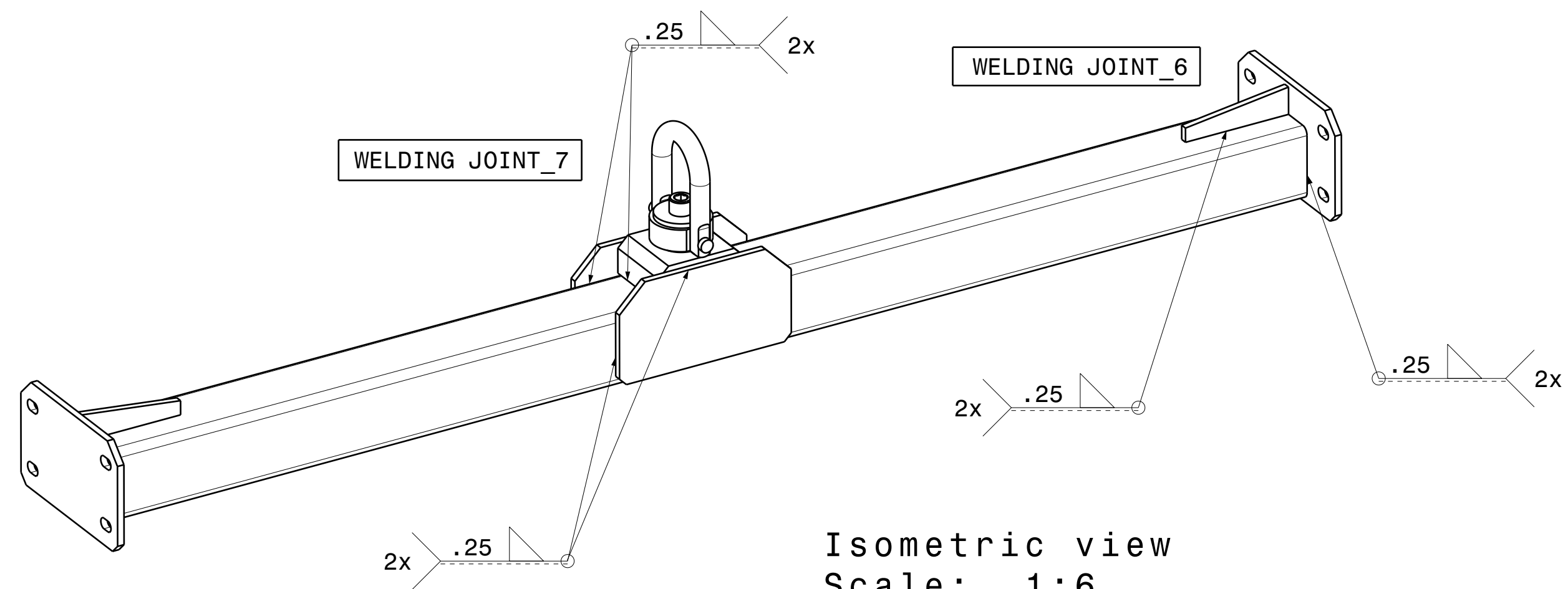
Left view
Scale: 1:4



Top view
Scale: 1:4

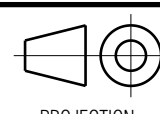


Section view W-W
Scale: 2:5

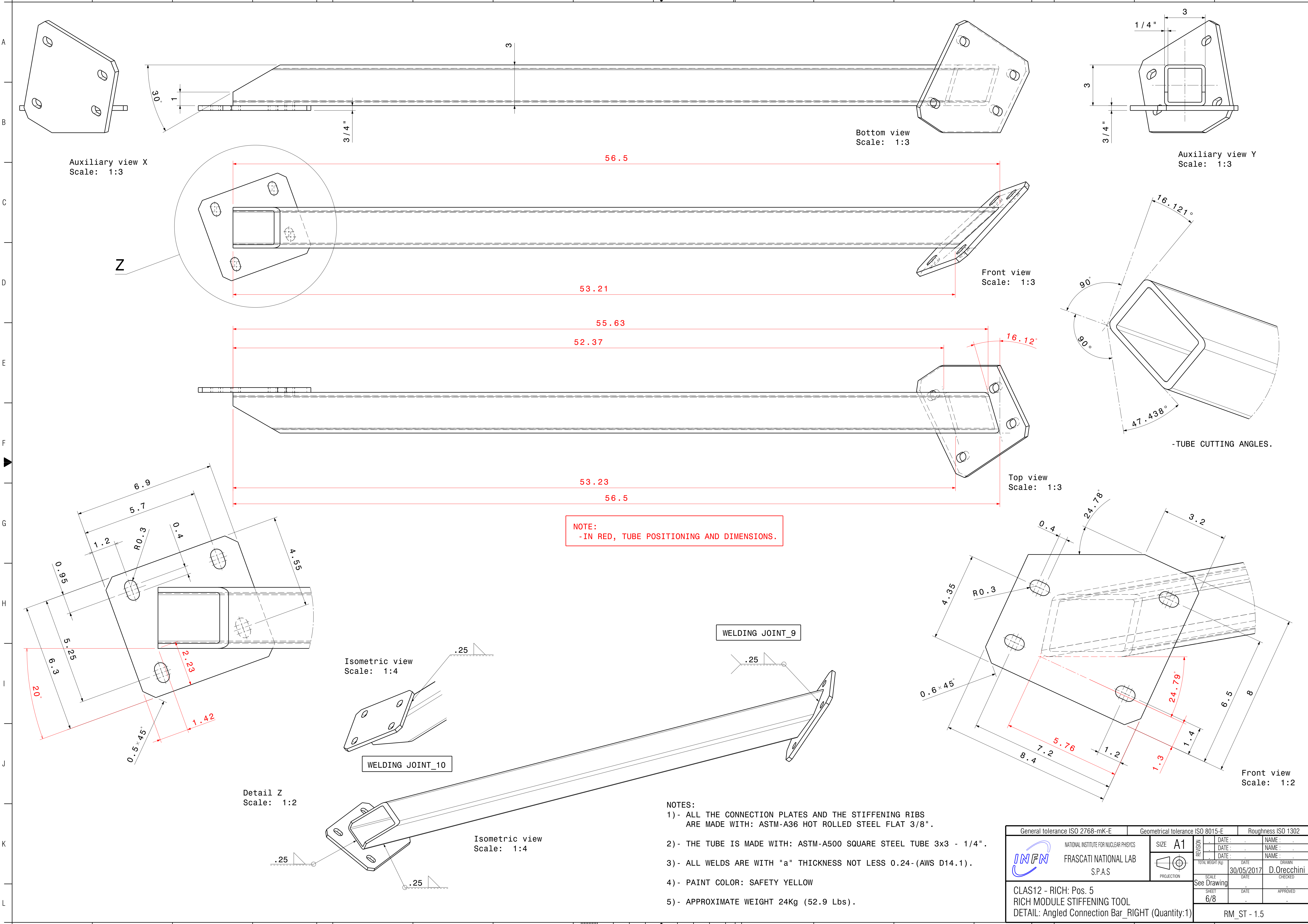


Isometric view
Scale: 1:6

- NOTES:
- 1)- ALL THE CONNECTION PLATES AND THE STIFFENING RIBS ARE MADE WITH: ASTM-A36 HOT ROLLED STEEL FLAT 3/8".
 - 2)- THE TUBE IS MADE WITH: ASTM-A500 SQUARE STEEL TUBE 4x4 - 1/4".
 - 3)- ALL WELDS ARE WITH "a" THICKNESS NOT LESS 0.24-(AWS D14.1).
 - 4)- PAINT COLOR: SAFETY YELLOW
 - 5)- APPROXIMATE WEIGHT: Kg49 (108.02 Lbs).

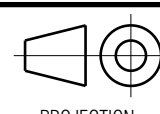
General tolerance ISO 2768-mK-E		Geometrical tolerance ISO 8015-E		Roughness ISO 1302			
 NATIONAL INSTITUTE FOR NUCLEAR PHYSICS FRASCATI NATIONAL LAB S.P.A.S	SIZE A1	 PROJECTION	REVISION	DATE :	NAME :		
				DATE :	NAME :		
				DATE :	NAME :		
				DATE :	NAME :		
				CLAS12 - RICH: Pos. 4 RICH MODULE LIFTING & STIFFENING TOOL DETAILS: Connection Bar (Quantity:1)			
				RM_LST_1.4			
TOTAL WEIGHT (KG)		DATE	DRAWN				
SCALE		30/05/2017	D.Orecchini				
See Drawing		DATE	CHECKED				
SHEET		DATE	APPROVED				
5/8							

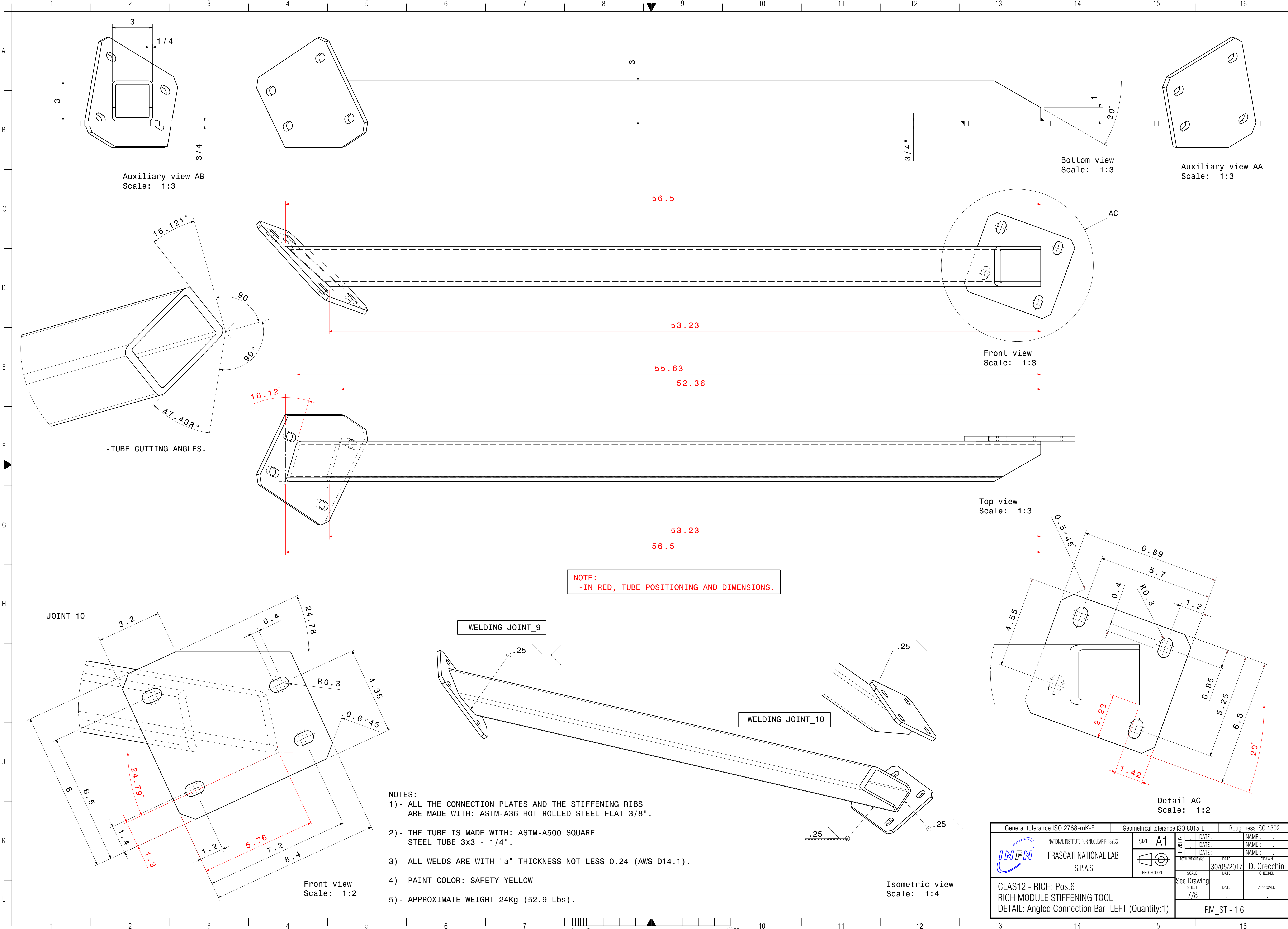
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NOTE:
-IN RED, TUBE POSITIONING AND DIMENSIONS.

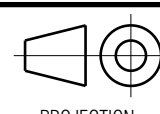
- NOTES:
- 1)- ALL THE CONNECTION PLATES AND THE STIFFENING RIBS ARE MADE WITH: ASTM-A36 HOT ROLLED STEEL FLAT 3/8".
 - 2)- THE TUBE IS MADE WITH: ASTM-A500 SQUARE STEEL TUBE 3x3 - 1/4".
 - 3)- ALL WELDS ARE WITH "a" THICKNESS NOT LESS 0.24-(AWS D14.1).
 - 4)- PAINT COLOR: SAFETY YELLOW
 - 5)- APPROXIMATE WEIGHT 24Kg (52.9 Lbs).

General tolerance ISO 2768-mK-E		Geometrical tolerance ISO 8015-E		Roughness ISO 1302									
 NATIONAL INSTITUTE FOR NUCLEAR PHYSICS FRASCATI NATIONAL LAB S.P.A.S		SIZE A1  PROJECTION	REVISION <table><tr><td>DATE :</td><td>NAME :</td></tr><tr><td>DATE :</td><td>NAME :</td></tr><tr><td>DATE :</td><td>NAME :</td></tr><tr><td>DATE :</td><td>NAME :</td></tr></table>	DATE :	NAME :	DATE :	NAME :	DATE :	NAME :	DATE :	NAME :		
				DATE :	NAME :								
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DATE :	NAME :												
TOTAL WEIGHT (kg)			DATE	DRAWN									
			30/05/2017	D.Orecchini									
SCALE			DATE	CHECKED									
See Drawing		DATE	APPROVED										
SHEET		DATE											
6/8													
CLAS12 - RICH: Pos. 5 RICH MODULE STIFFENING TOOL DETAIL: Angled Connection Bar_RIGHT (Quantity:1)		RM_ST - 1.5											

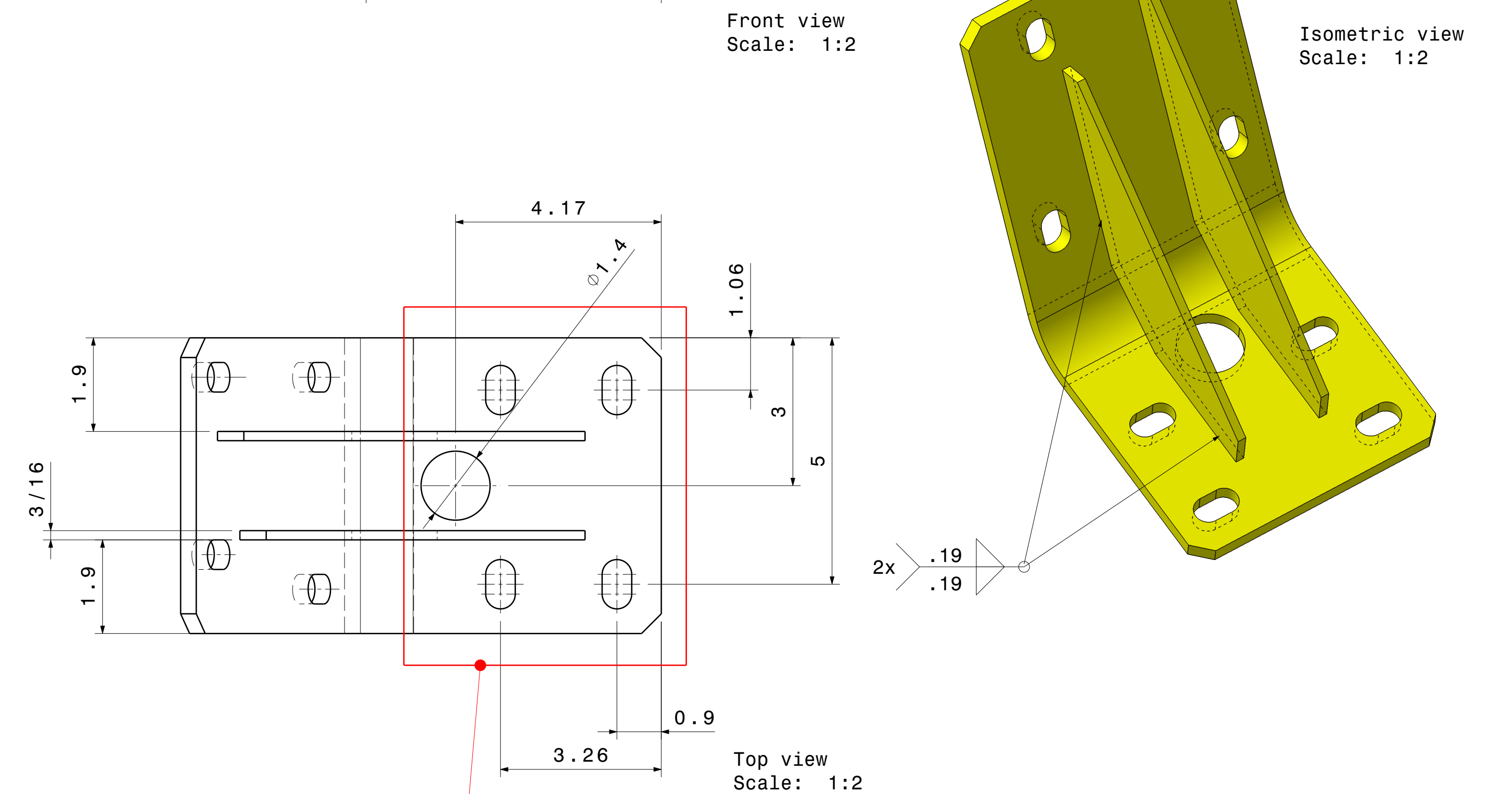
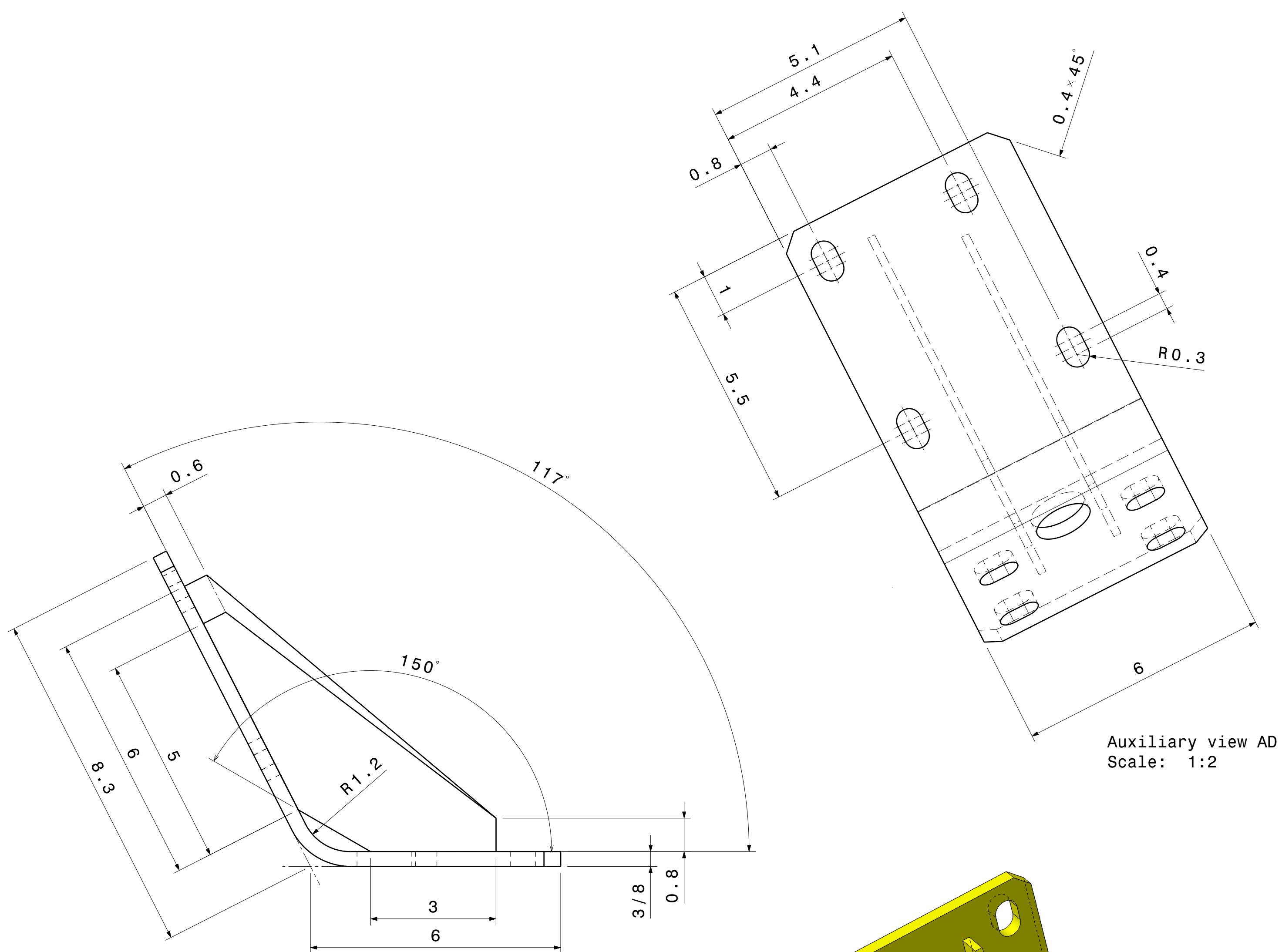


NOTE:
-IN RED, TUBE POSITIONING AND DIMENSIONS.

- NOTES:
- 1)- ALL THE CONNECTION PLATES AND THE STIFFENING RIBS ARE MADE WITH: ASTM-A36 HOT ROLLED STEEL FLAT 3/8".
 - 2)- THE TUBE IS MADE WITH: ASTM-A500 SQUARE STEEL TUBE 3x3 - 1/4".
 - 3)- ALL WELDS ARE WITH "a" THICKNESS NOT LESS 0.24-(AWS D14.1).
 - 4)- PAINT COLOR: SAFETY YELLOW
 - 5)- APPROXIMATE WEIGHT 24Kg (52.9 Lbs).

General tolerance ISO 2768-mK-E		Geometrical tolerance ISO 8015-E		Roughness ISO 1302		
 NATIONAL INSTITUTE FOR NUCLEAR PHYSICS FRASCATI NATIONAL LAB S.P.A.S	SIZE A1	 PROJECTION	REVISION		DATE	NAME
			DATE		NAME	
			DATE		NAME	
			DATE		NAME	
			DATE		NAME	
TOTAL WEIGHT (kg)		DATE	DRAWN			
SCALE		DATE	CHECKED			
See Drawing		DATE		APPROVED		
SHEET		DATE	APPROVED			
7/8		DATE		APPROVED		
CLAS12 - RICH: Pos.6 RICH MODULE STIFFENING TOOL DETAIL: Angled Connection Bar_LEFT (Quantity:1)		RM_ST - 1.6				

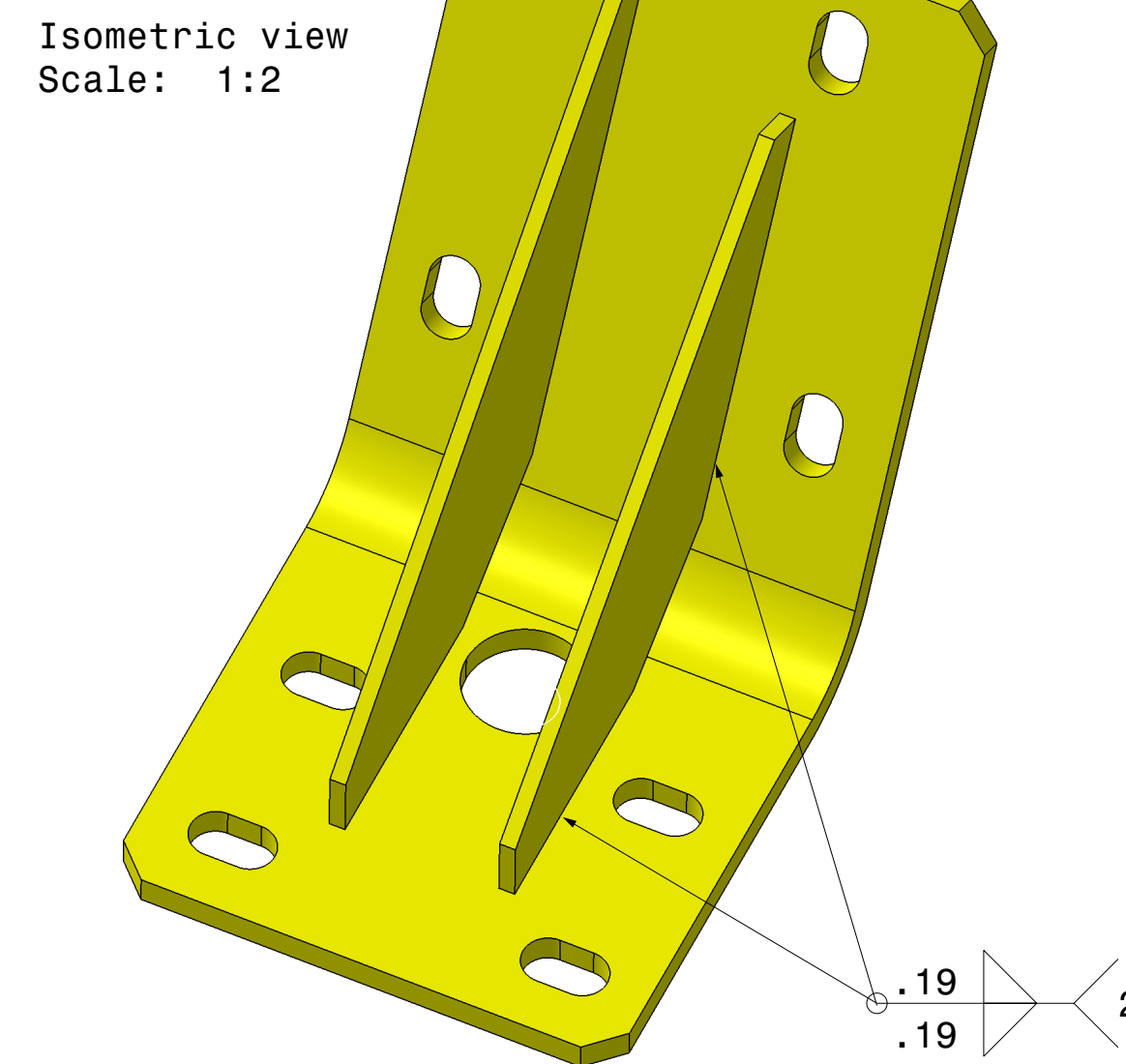
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RICH COUPLING HOLES

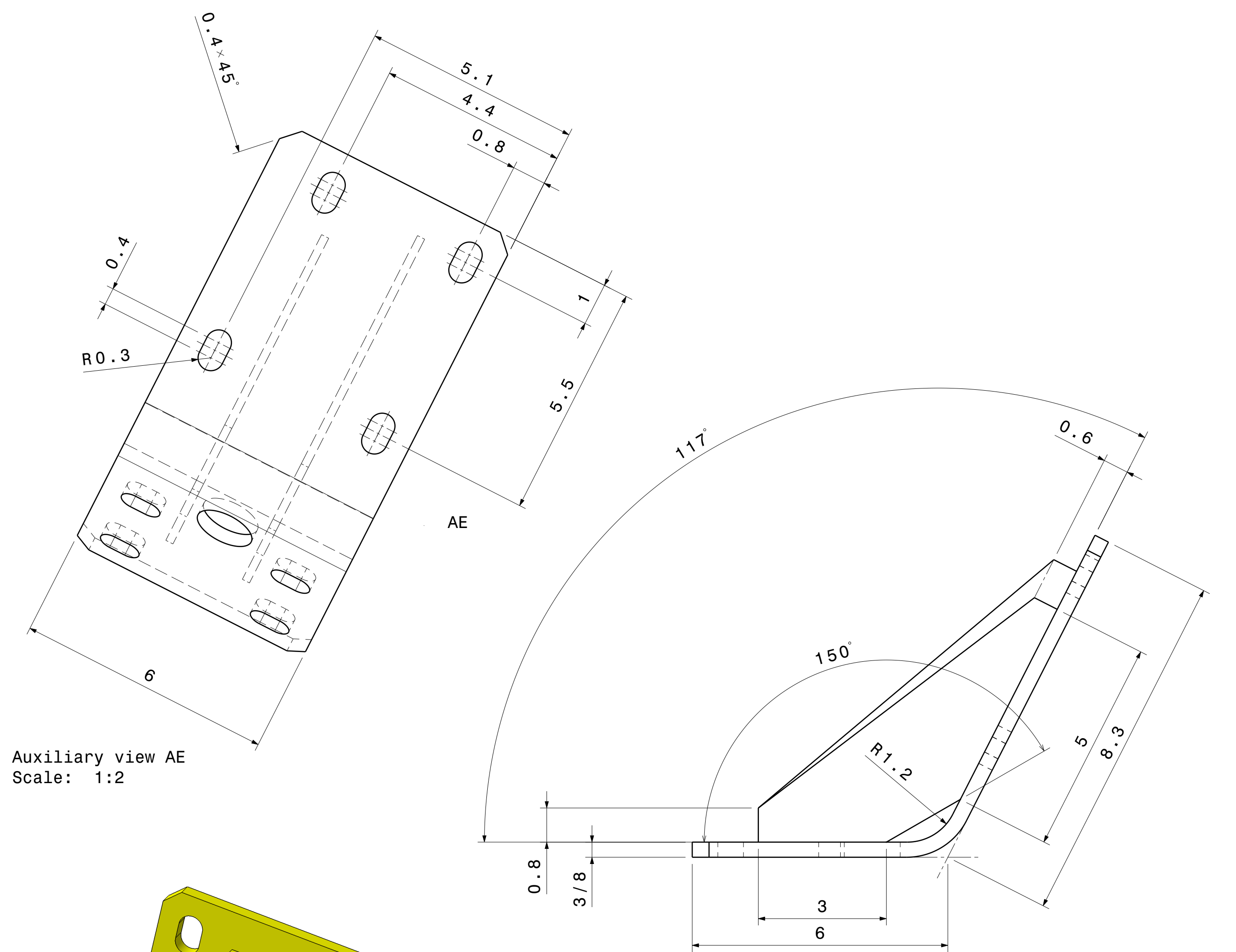
NOTES FOR CONNECTION PART_RIGHT:

- 1)- ALL THE CONNECTION PLATES AND THE STIFFENING RIBS ARE MADE WITH: ASTM-A36 HOT ROLLED STEEL FLAT 3/8" AND 3/16".
- 2)- ALL WELDS ARE WITH "a" THICKNESS NOT LESS 0.24- (AWS D14.1).
- 3)- PAINT COLOR: SAFETY YELLOW
- 4)- APPROXIMATE WEIGHT 4.5Kg (9.92Lbs).

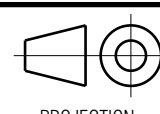


NOTES FOR CONECTION PART LEFT:

- 1)- ALL THE CONNECTION PLATES AND THE STIFFENING RIBS ARE MADE WITH: ASTM-A36 HOT ROLLED STEEL FLAT 3/8" AND 3/16".
- 2)- ALL WELDS ARE WITH "a" THICKNESS NOT LESS 0.24- (AWS D14.1).
- 3)- PAINT COLOR: SAFETY YELLOW
- 4)- APPROXIMATE WEIGHT 4.5Kg (9.92Lbs).



RICH COUPLING HOLES

General tolerance ISO 2768-mK-E		Geometrical tolerance ISO 8015-E		Roughness ISO 1302		
 NATIONAL INSTITUTE FOR NUCLEAR PHYSICS FRASCATI NATIONAL LAB S.P.A.S	SIZE A1	 PROJECTION	REVISION	DATE	NAME	
				DATE	NAME	
				DATE	NAME	
				DATE	NAME	
			TOTAL WEIGHT (kg)		DATE	DRAWN
			SCALE 1:2		20/01/2017	D.Orecchini
			SHEET 8/8		DATE	CHECKED
APPROVED						
CLAS12 - RICH: Pos.7 - Pos.8 RICH MODULE STIFFENING TOOL DETAIL: Angled Connection Plates_RIGHT / LEFT			RM_ST_1.7			