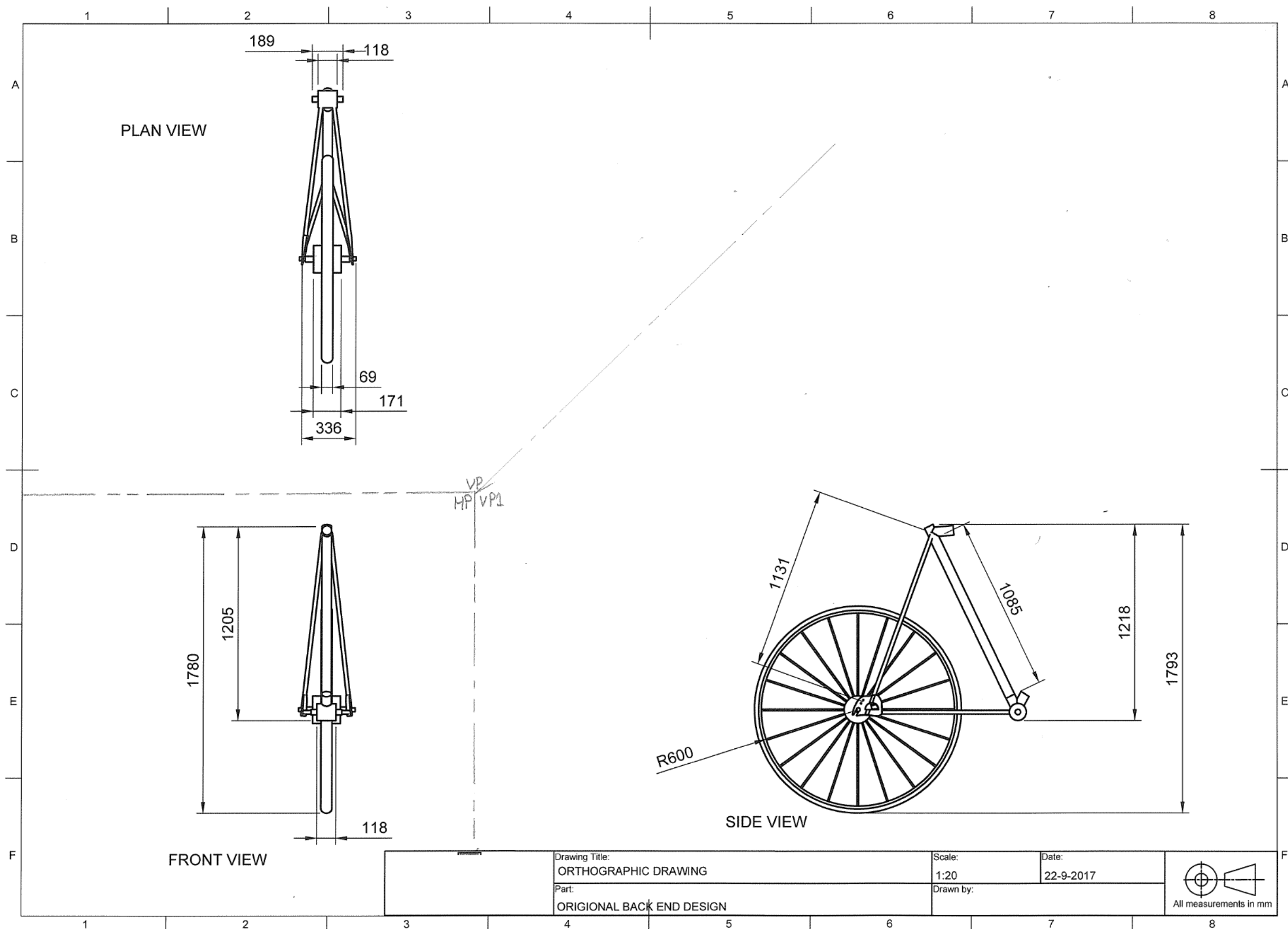
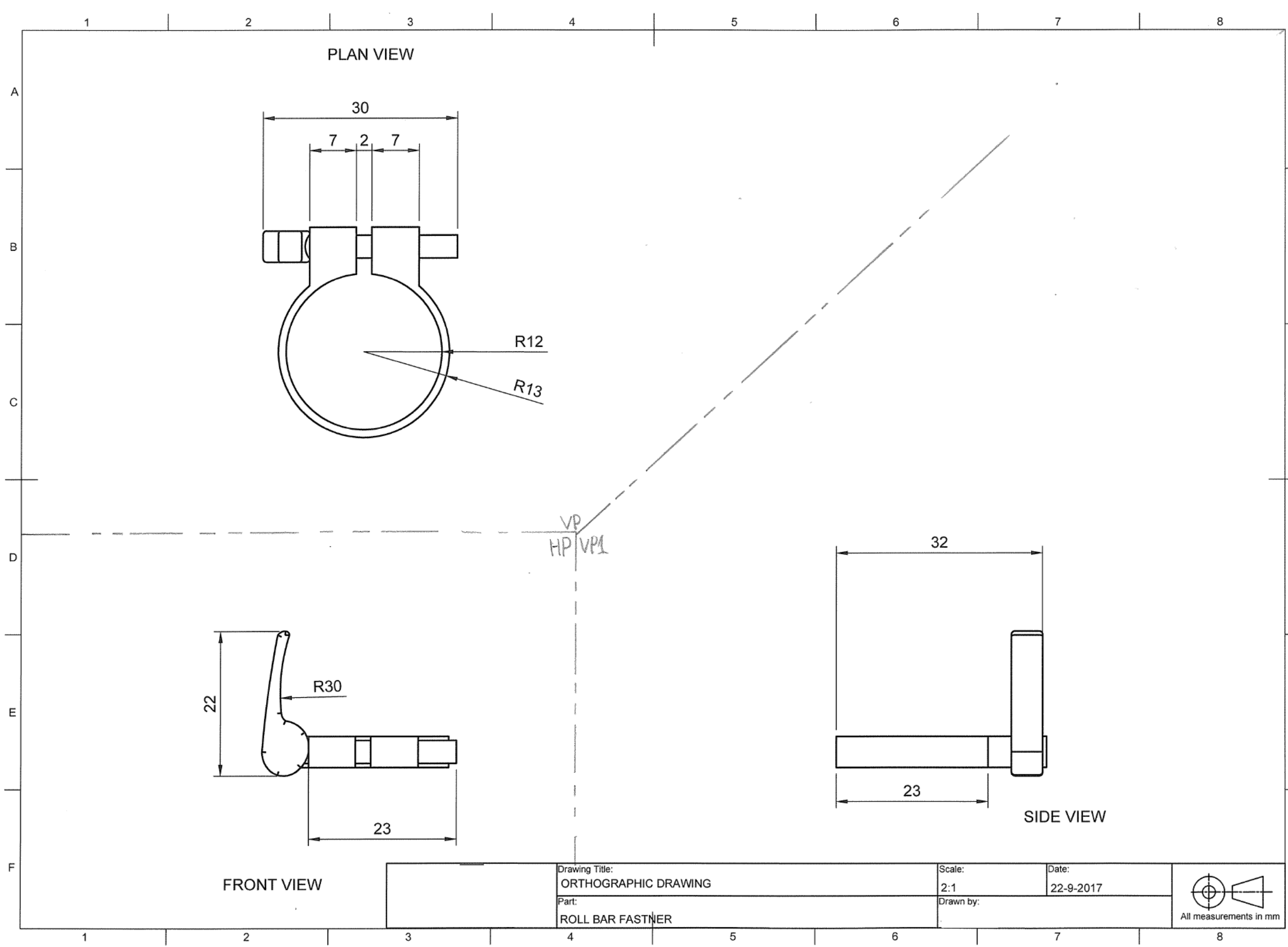
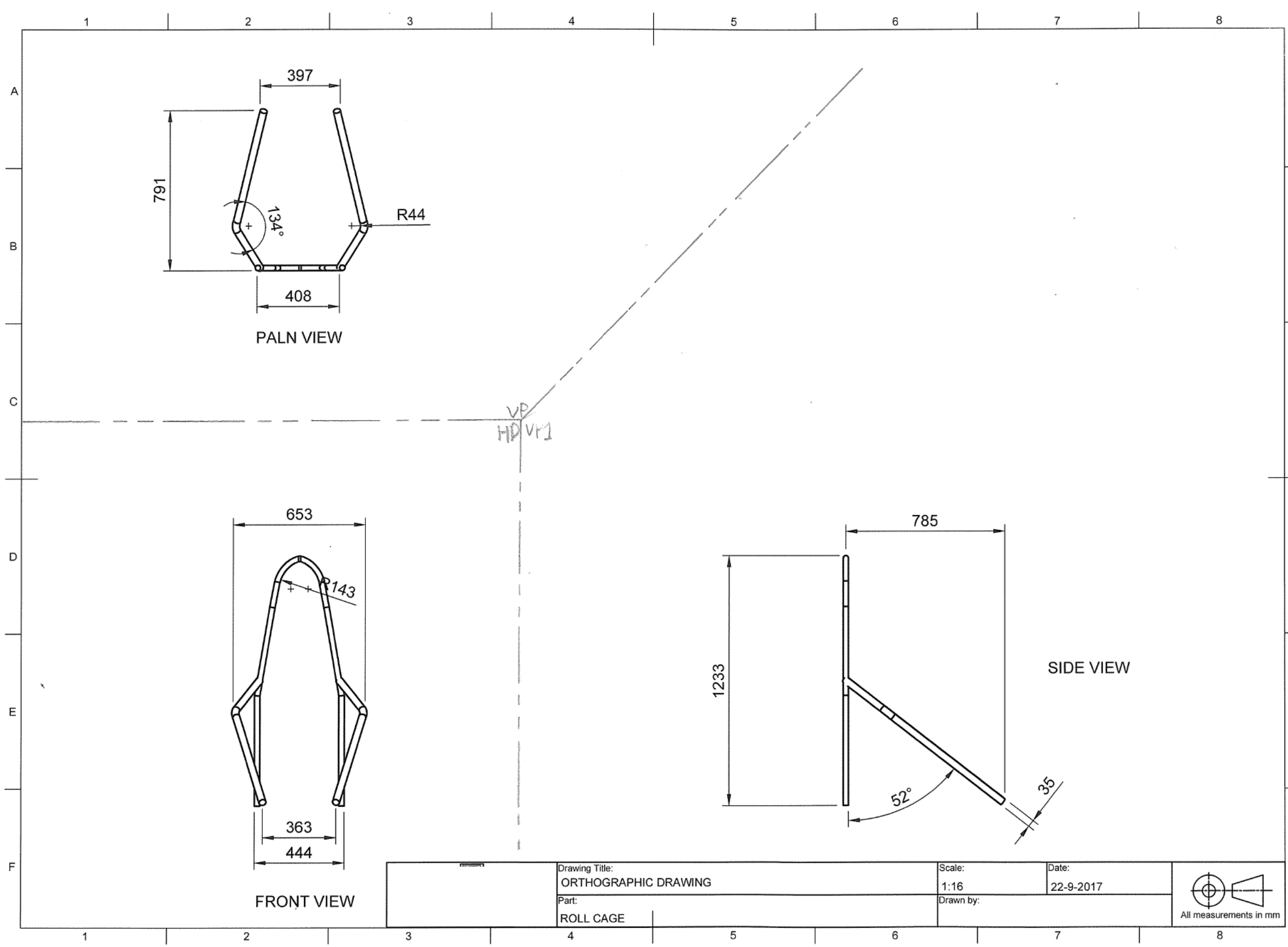


No part of the candidate evidence in this exemplar material may be presented in an external assessment for the purpose of gaining credits towards an NCEA qualification.



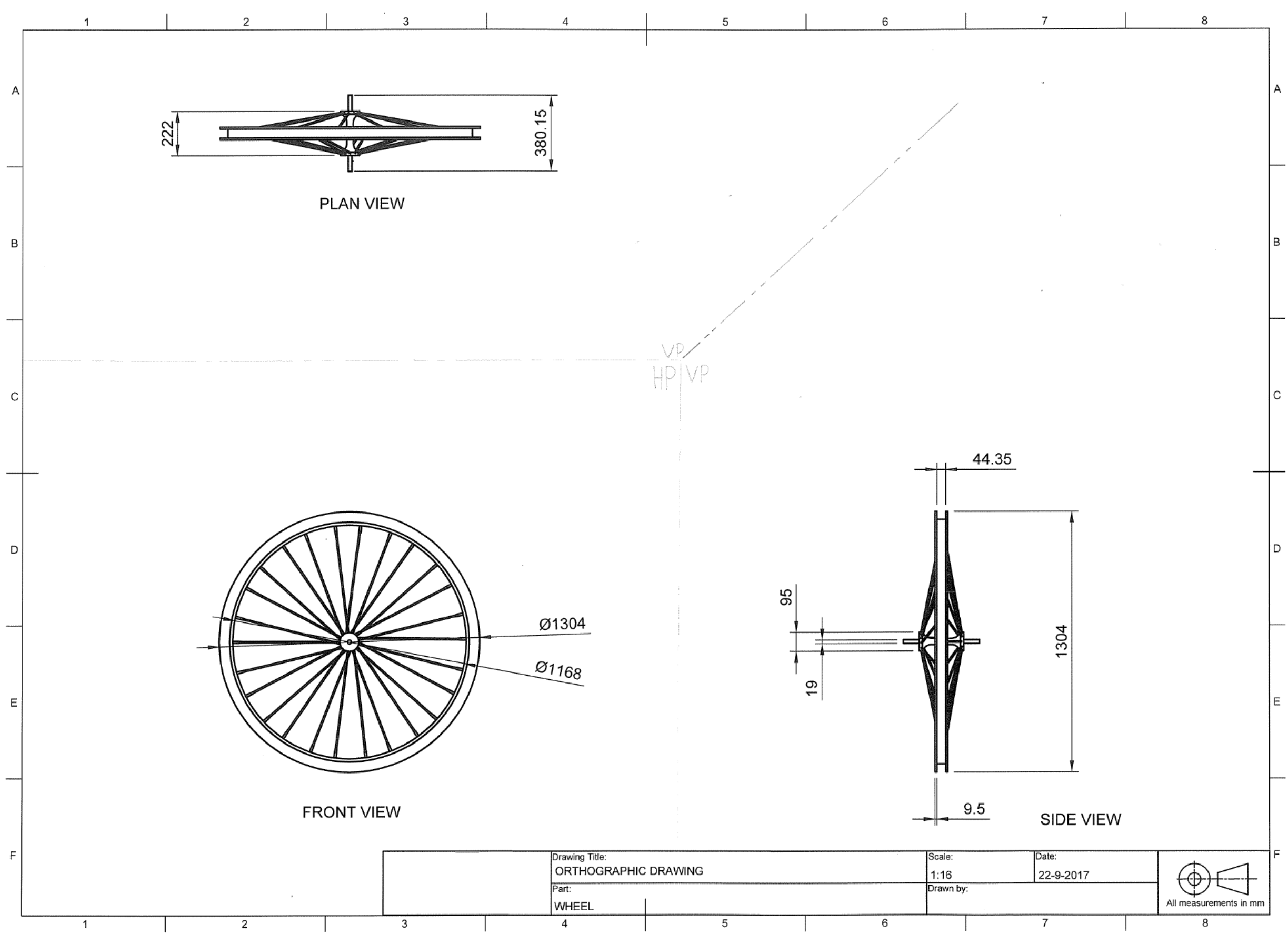


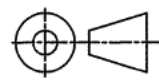


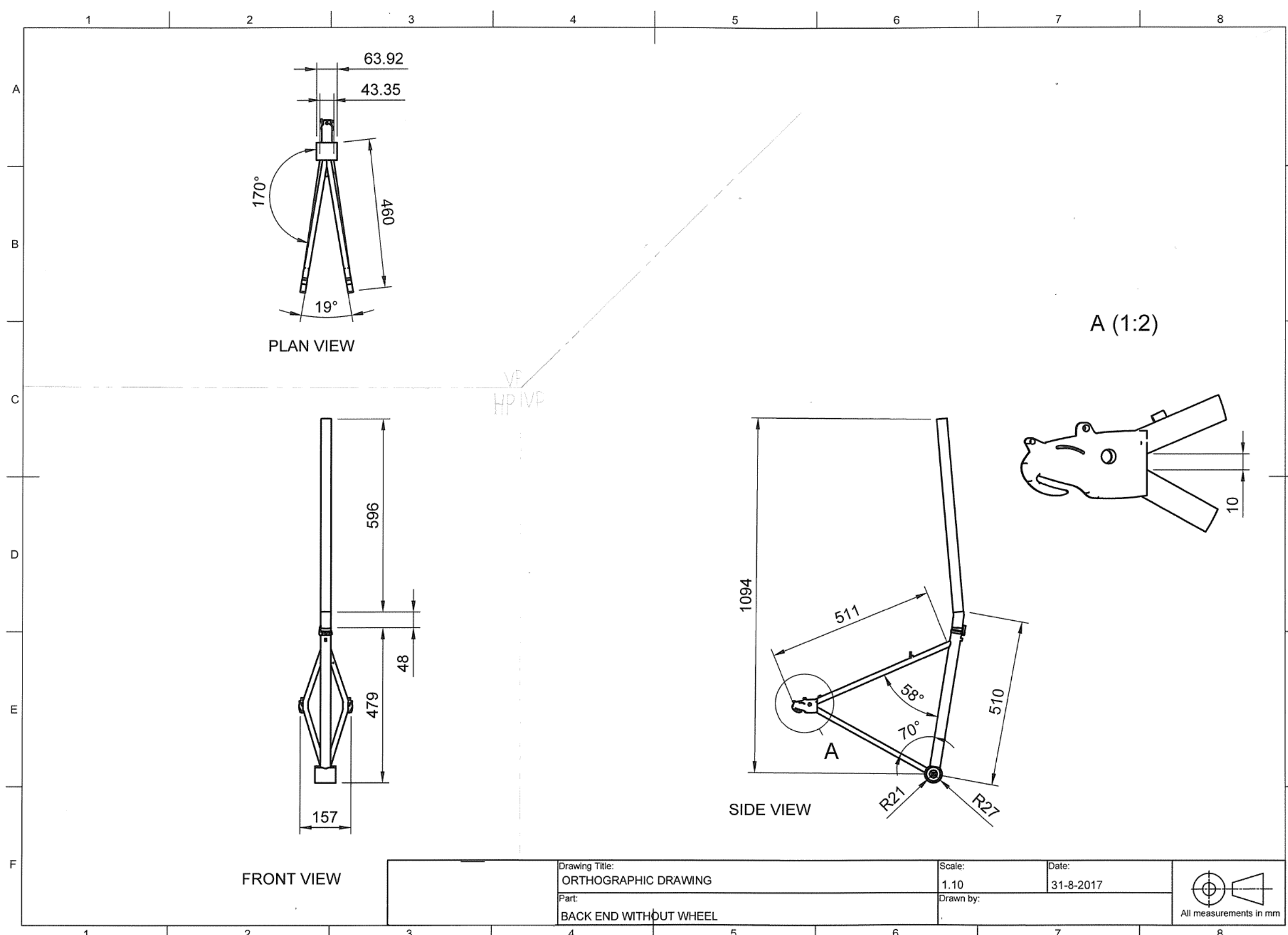
Drawing Title:
ORTHOGRAPHIC DRAWING
Part:
ROLL CAGE

Scale:
1:16
Date:
22-9-2017
Drawn by:



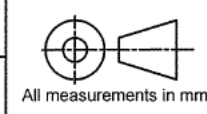


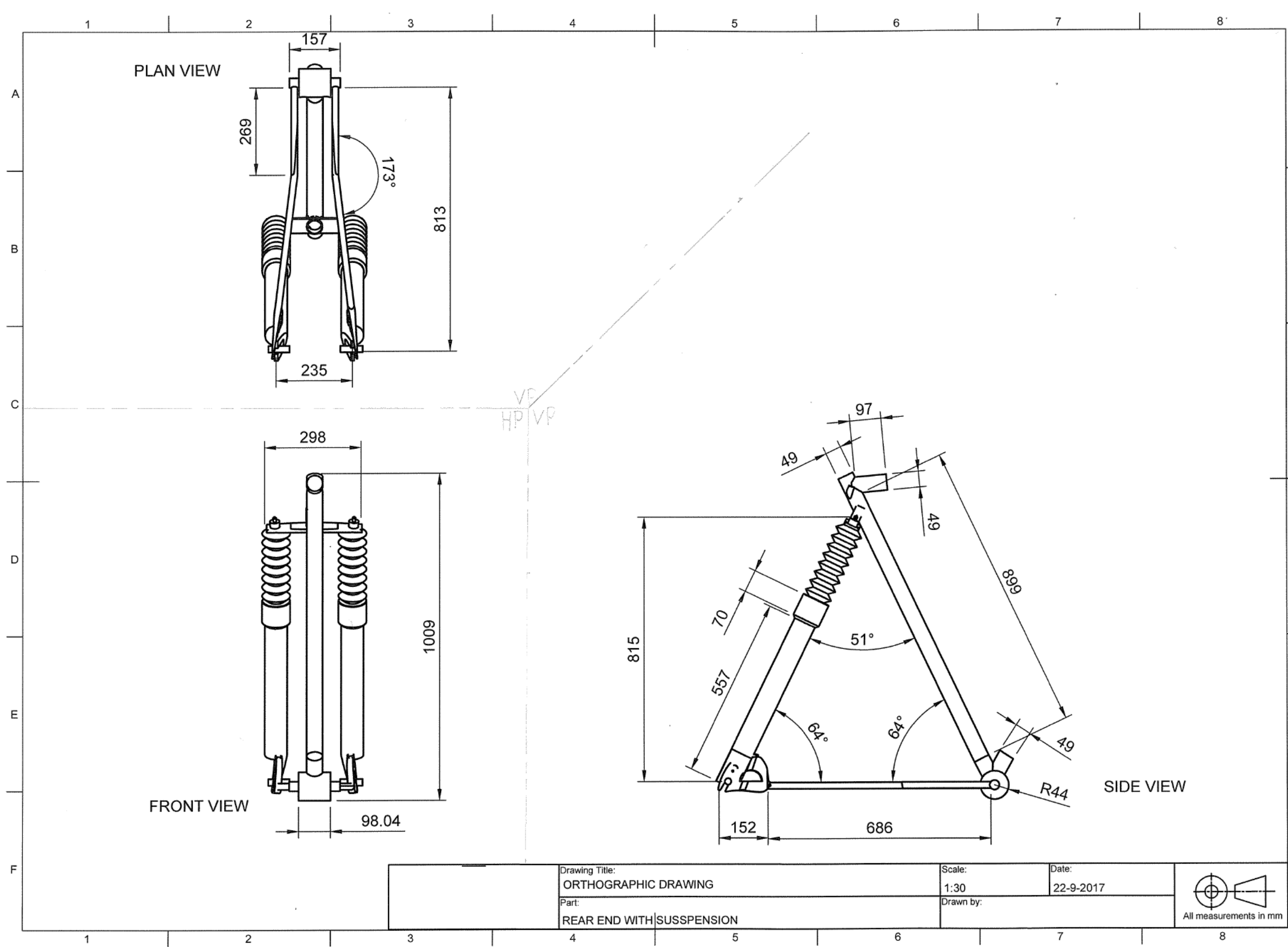
	Drawing Title:	Scale:	Date:	 All measurements in mm
	ORTHOGRAPHIC DRAWING	1:16	22-9-2017	
	Part:	Drawn by:		
	WHEEL			



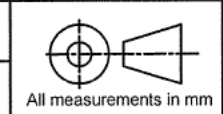
Drawing Title:
ORTHOGRAPHIC DRAWING
Part:
BACK END WITHOUT WHEEL

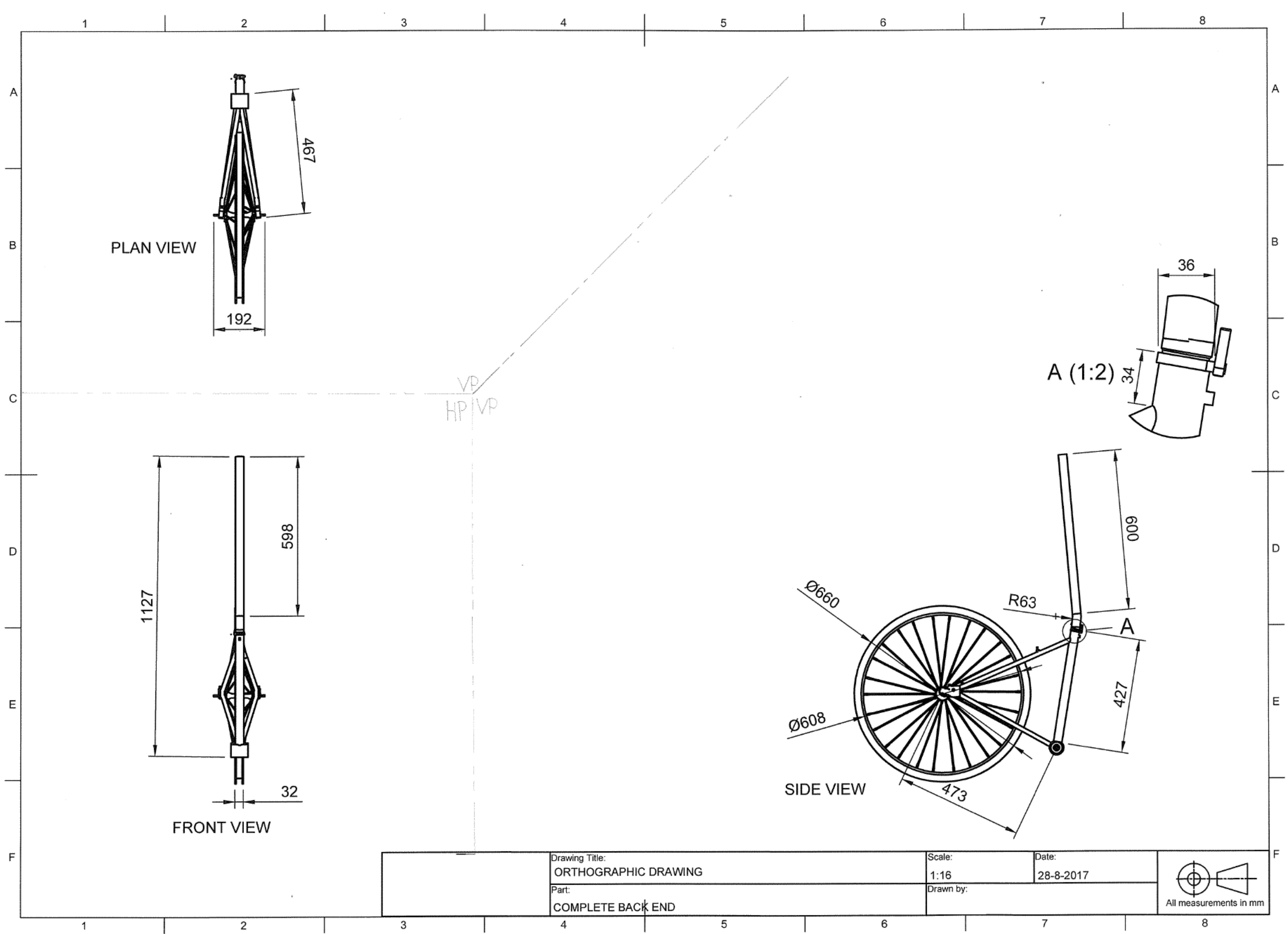
Scale:
1:10
Date:
31-8-2017
Drawn by:

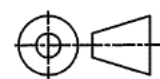


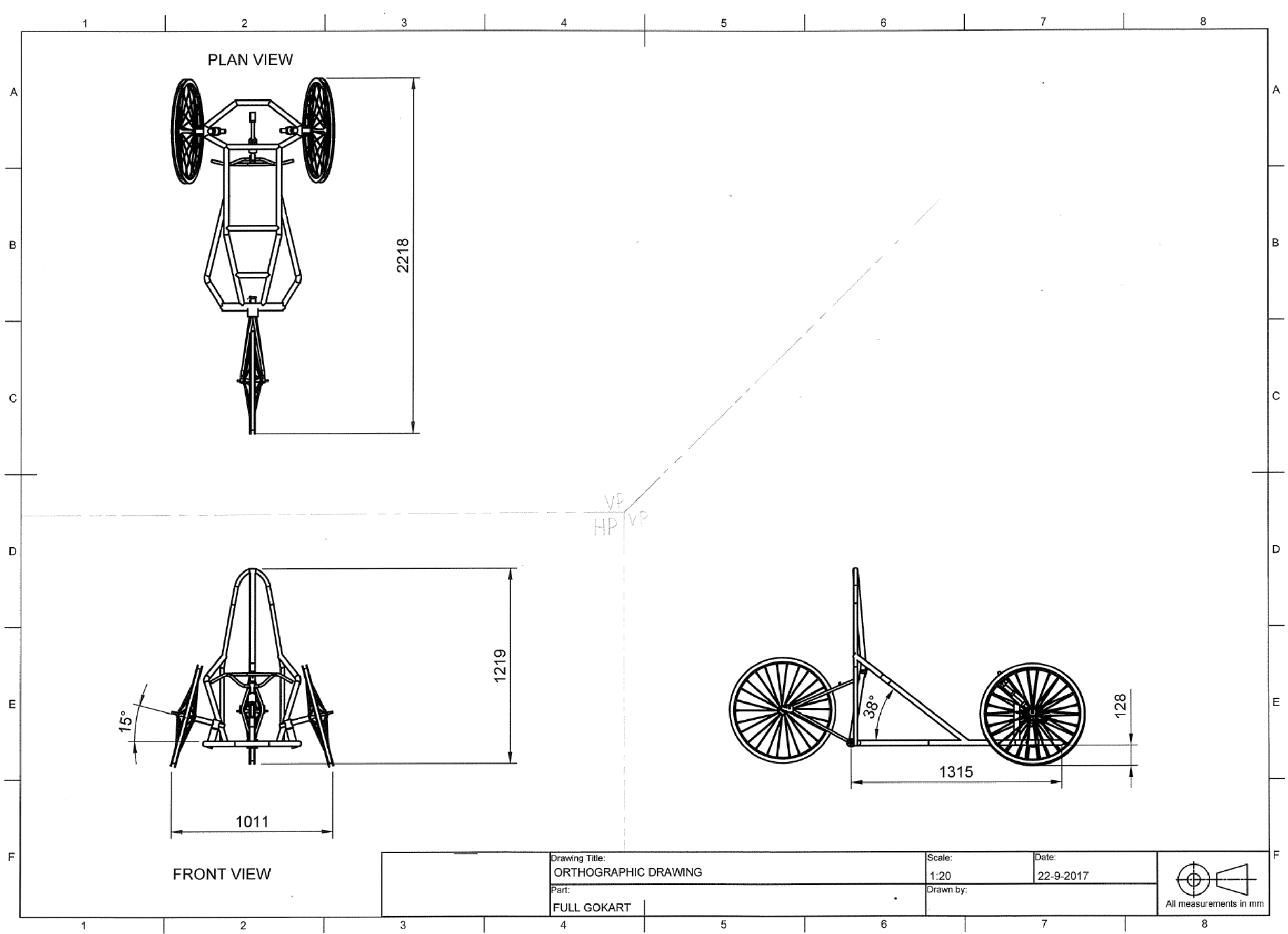


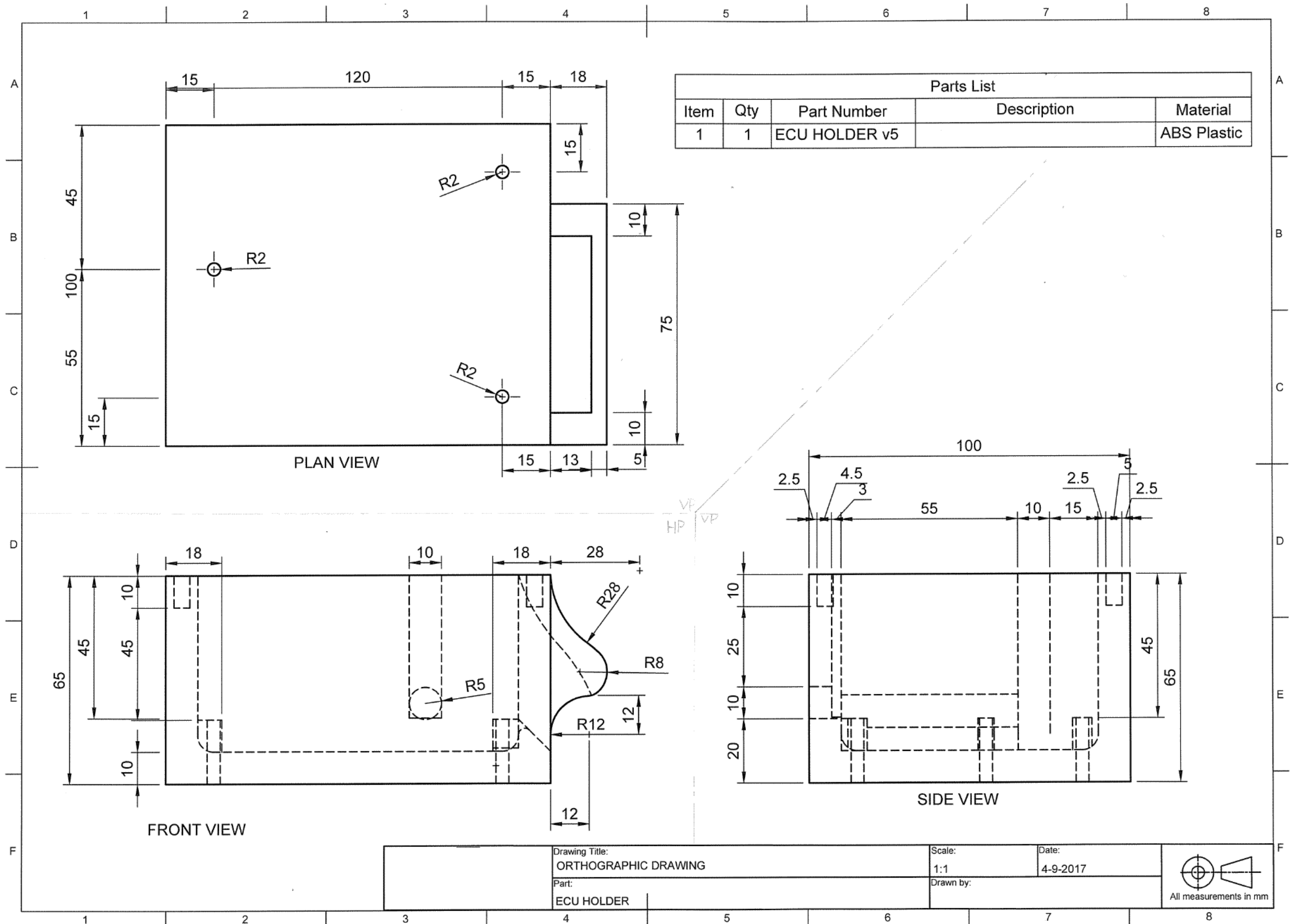
Drawing Title: ORTHOGRAPHIC DRAWING		Scale: 1:30	Date: 22-9-2017
Part: REAR END WITH SUSSPENSION		Drawn by:	

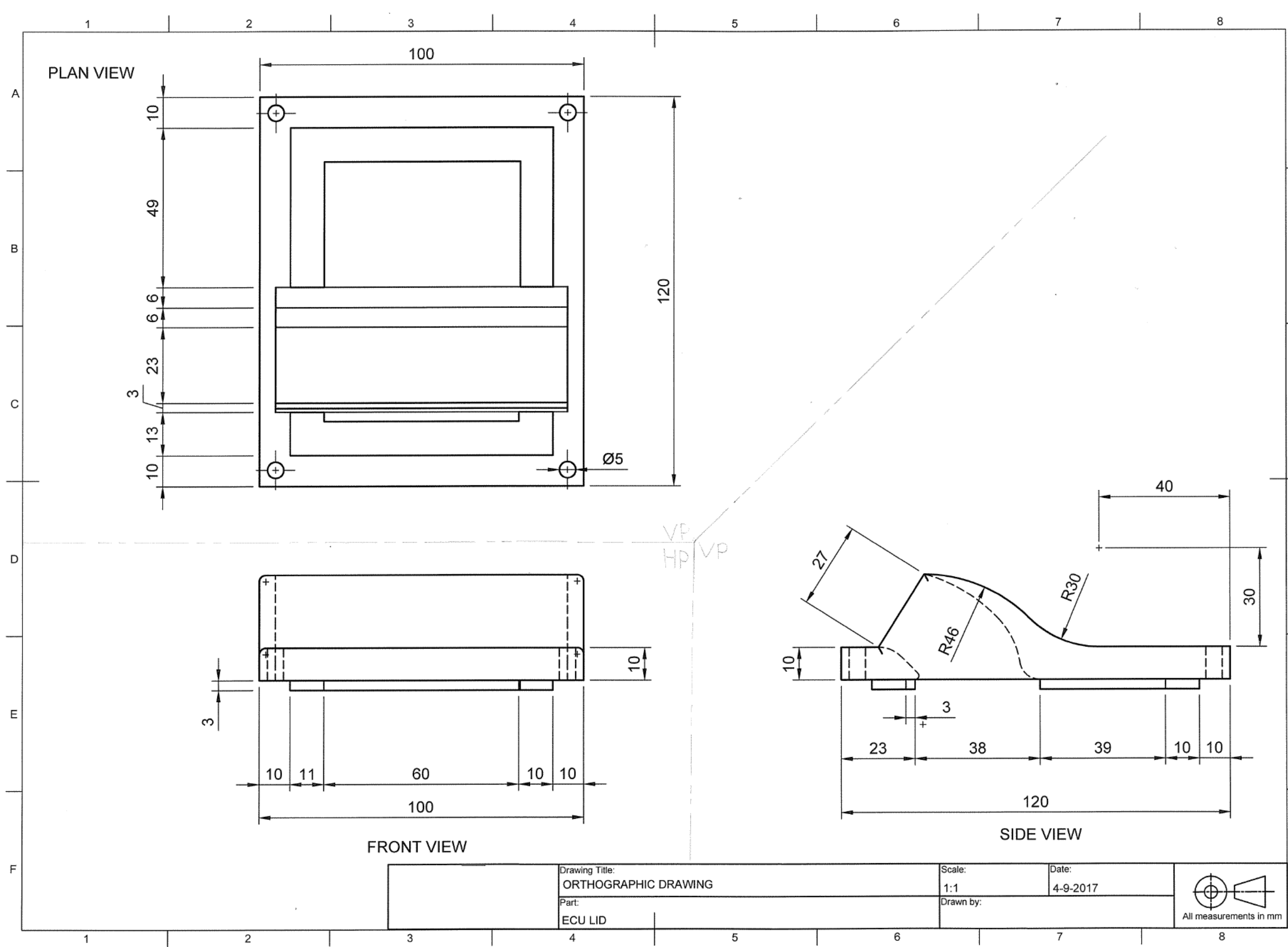


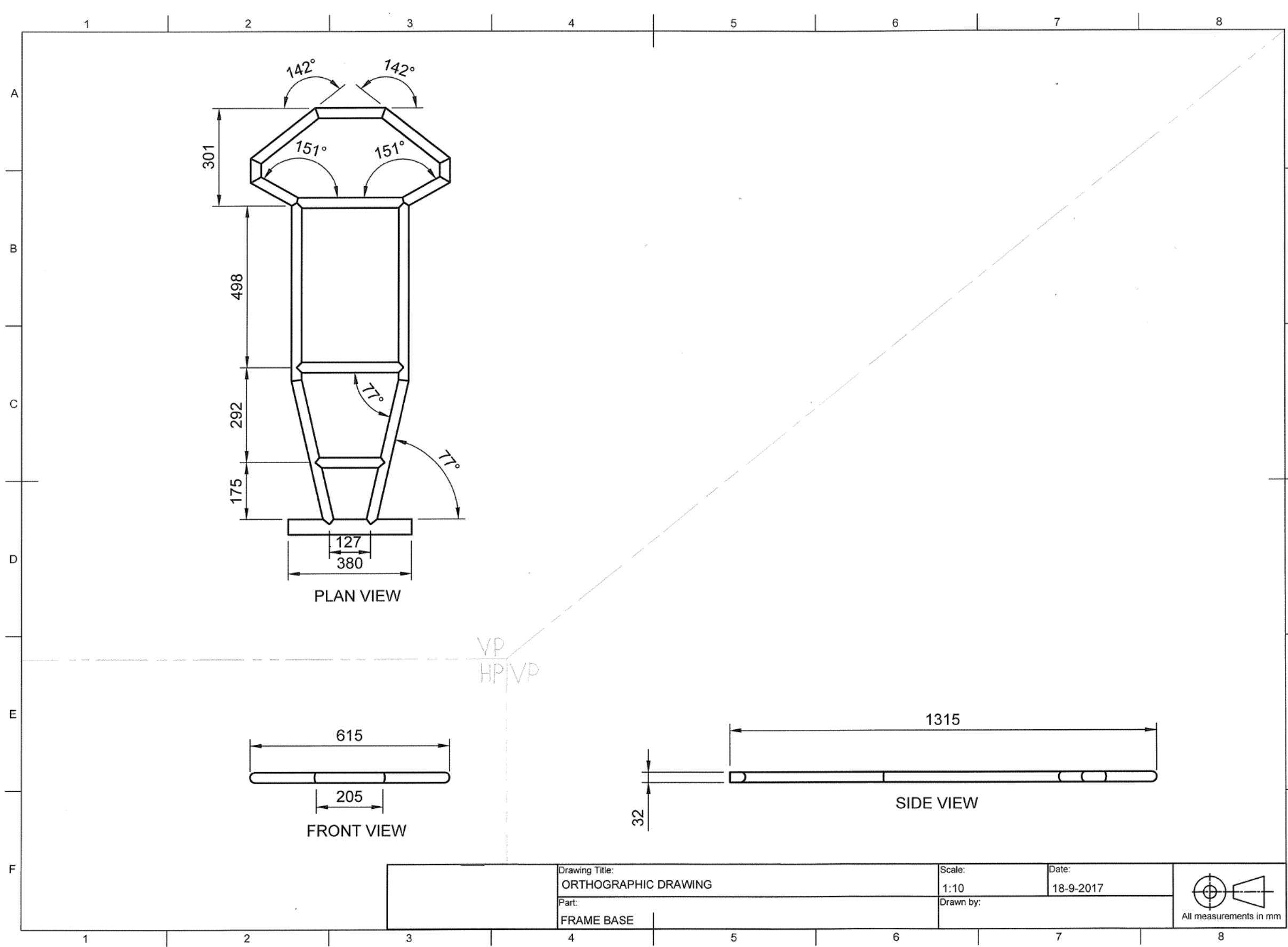


Drawing Title: ORTHOGRAPHIC DRAWING	Scale: 1:16	Date: 28-8-2017	 All measurements in mm
Part: COMPLETE BACK END	Drawn by:		

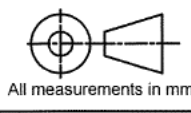


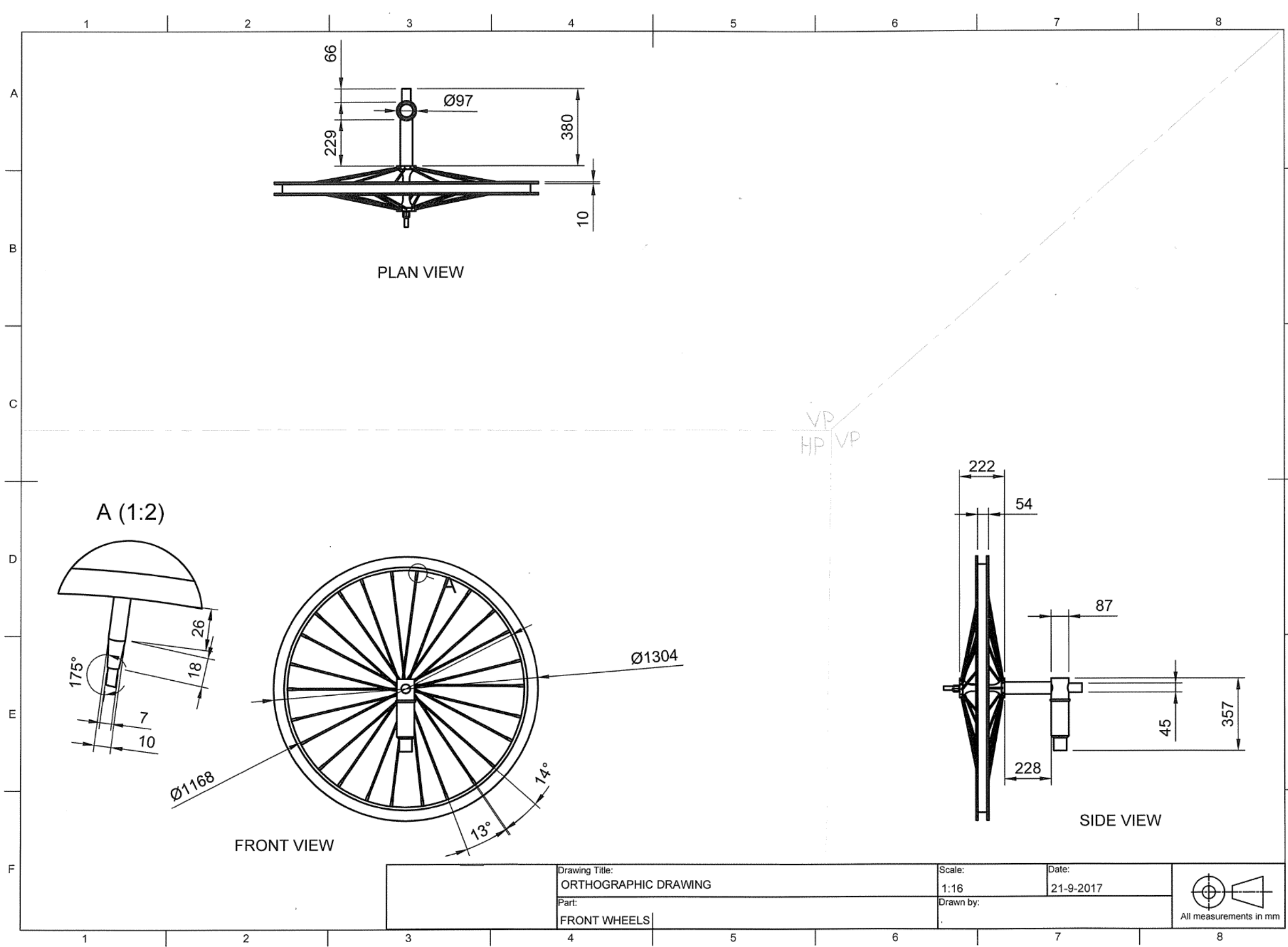






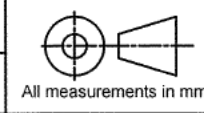
Drawing Title: ORTHOGRAPHIC DRAWING		Scale: 1:10	Date: 18-9-2017
Part: FRAME BASE		Drawn by:	

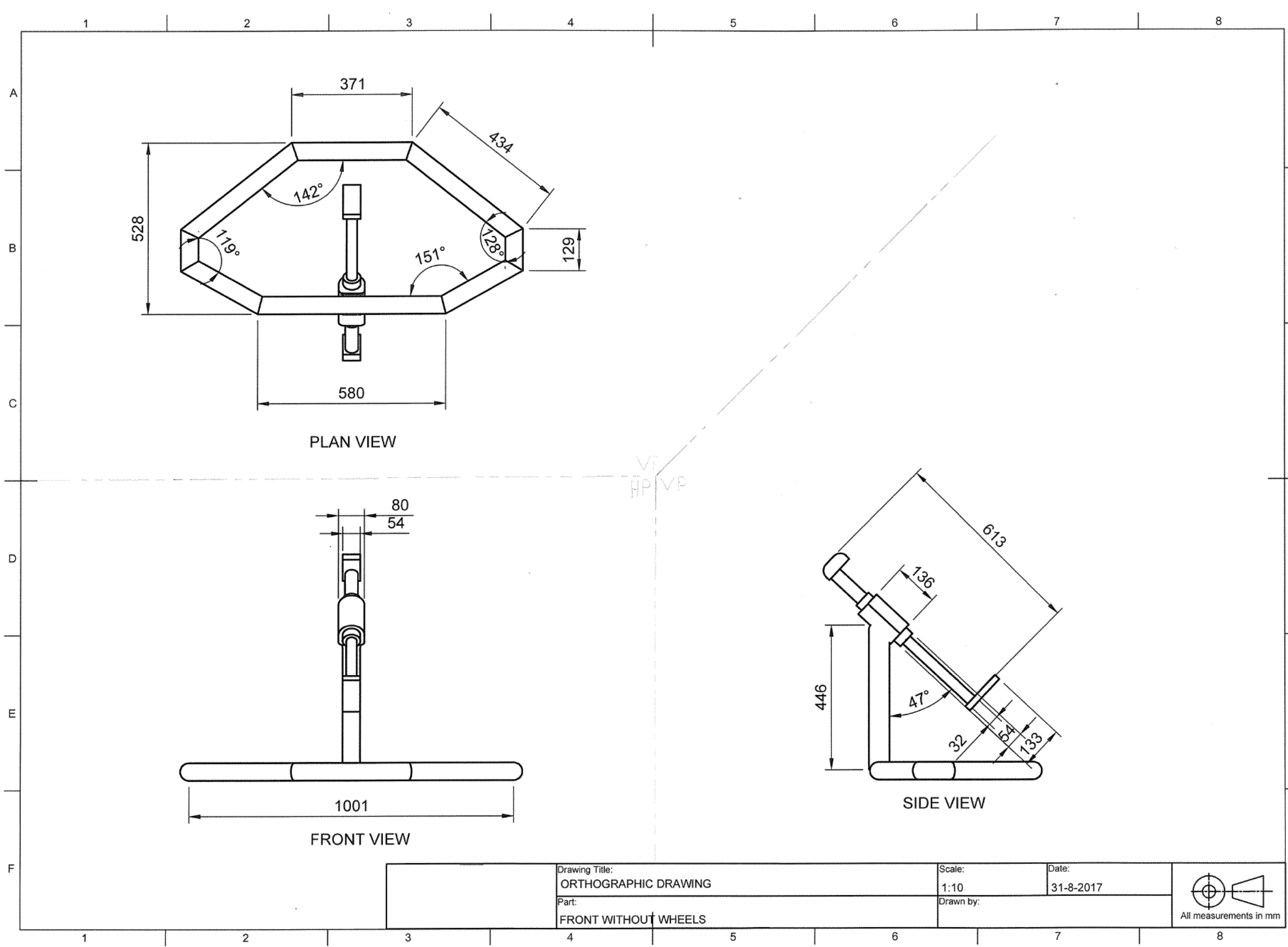




Drawing Title:
ORTHOGRAPHIC DRAWING
Part:
FRONT WHEELS

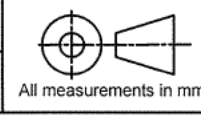
Scale:
1:16
Date:
21-9-2017
Drawn by:

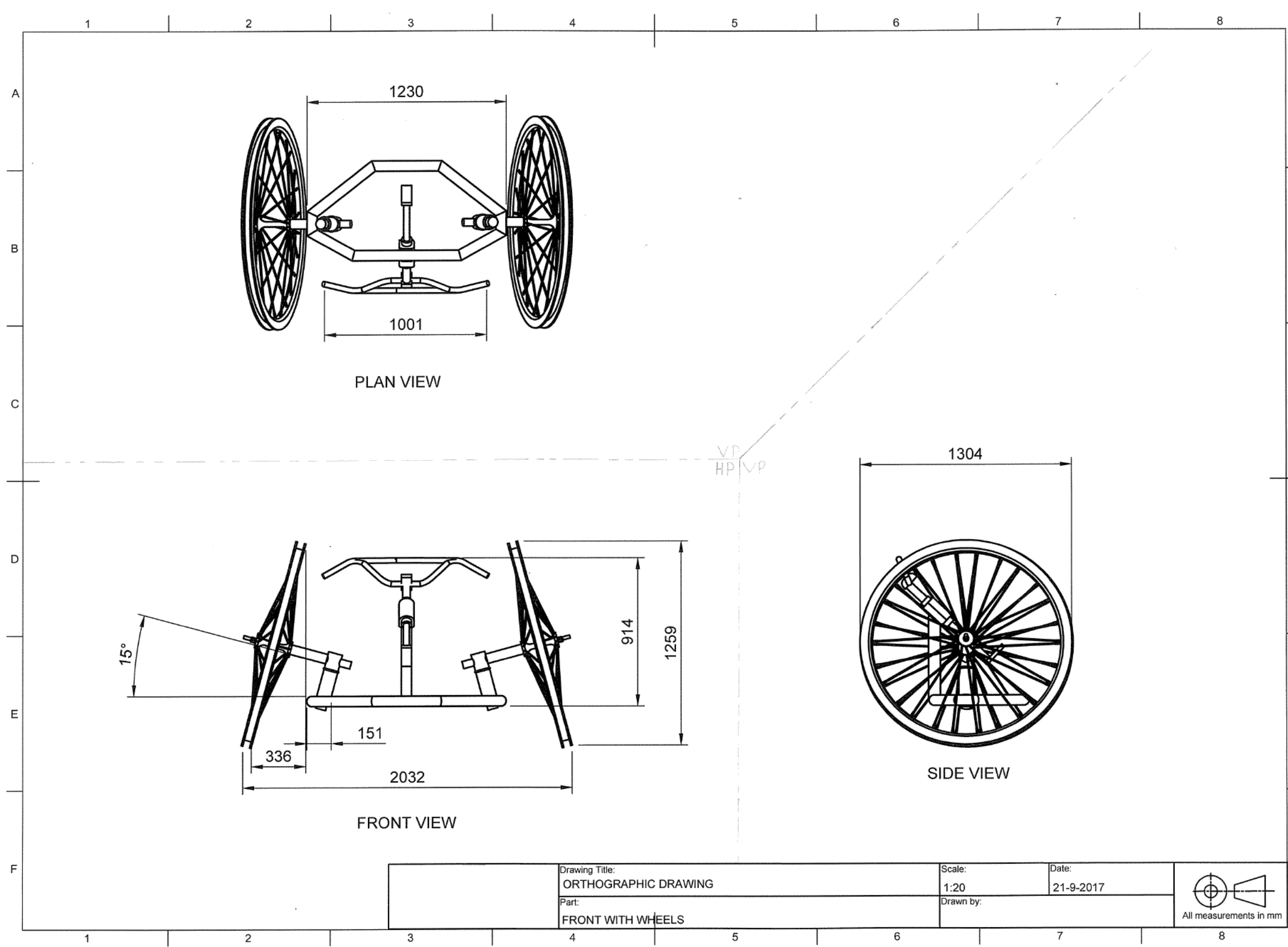


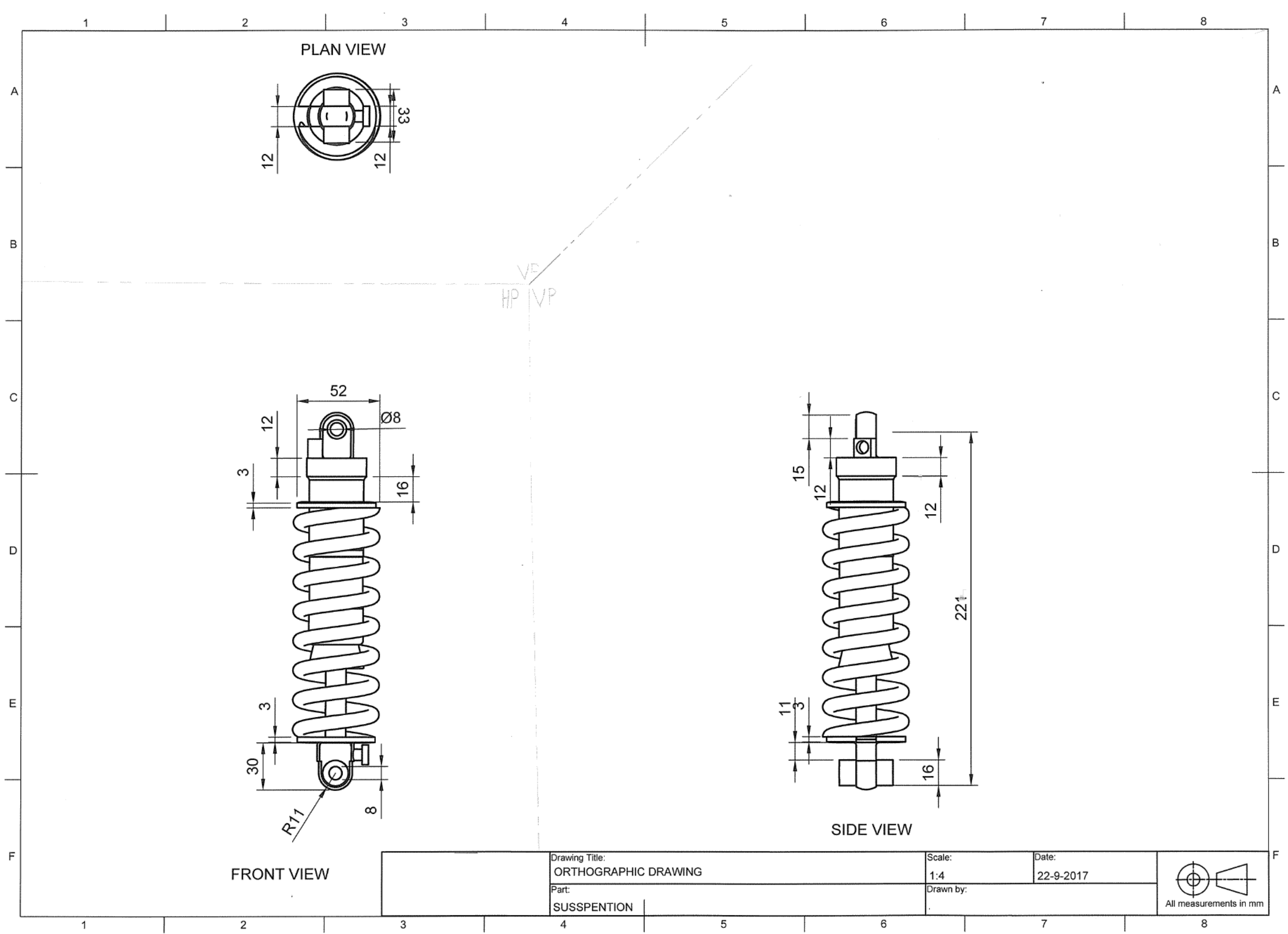


Drawing Title:
ORTHOGRAPHIC DRAWING
Part:
FRONT WITHOUT WHEELS

Scale:
1:10
Date:
31-8-2017
Drawn by:







AS 91631 (3.34): Produce working drawings to communicate production details for a complex design (6 credits)

Achievement	Achievement with Merit	Achievement with Excellence
Produce working drawings to communicate production details for a complex design.	Produce working drawings to clearly communicate production details for a complex design.	Produce working drawings to effectively communicate production details for a complex design.
<ul style="list-style-type: none"> Produce a <u>set of related instrumental</u> working drawings showing <u>exterior and interior detail</u> of components related to the construction and assembly of a complex design. Demonstrate an ability to use <u>drawing conventions and presentation techniques</u> to communicate details of a complex design. 	<ul style="list-style-type: none"> Produce a <u>precise</u> set of related instrumental working drawings showing exterior and interior detail of components that explains the construction and assembly of a complex design. Demonstrate an ability to accurately apply drawing conventions and presentation techniques to clearly communicate details of a complex design. 	<ul style="list-style-type: none"> Produce a precise and cohesive set of related instrumental working drawings through the appropriate selection of views and modes that enable the construction and/or assembly of a complex design. Demonstrate an ability to accurately apply drawing conventions and presentation techniques to clearly communicate production details of a complex design.

Commentary: This submission is assessed at Low Achievement.

It shows plans for a bicycle and is a mixture of CAD and hand drawn.

This includes (helping it meet the grade):

- a set of related complex drawings of multiple components.
- CAD drawings that help meet precision and accuracy
- the use of drawing conventions such recognised scales, dimensioning and titling. Unfortunately it has been let down by trying to incorrectly include reference plane lines to show projection of views (not required at this level). These have been hand drawn after printing with many of the end views not lining up if projected from the plan view.

Even though there is a range of views shown here there appears to be two or more bikes involved. Hence only one design was assessed.

Even though the submission shows a large number of third angle orthographic drawings of some of the components of the design there is only a limited number of details, one auxiliary view and one enlargement which do not really help explain the design.

Similarly there is minimal information to help explain how the design would be assembled.

The use of sectional views and better selection of details would have helped this submission to meet the “clearly communicate details of a complex design” requirement.