

Important point of drawing

TA Satoru Hattori
Yasuyuki Oda

About drawings column

The important points of drawing column are following:

- The format of drawing unify to based on JIS format
- The unit of length unify to the metric system (millimeter)
- A full name should written in column of plotter
- The part name should written in column of product name
- The issue number should written in column of figure number
- Do not written in drawing column by handwriting

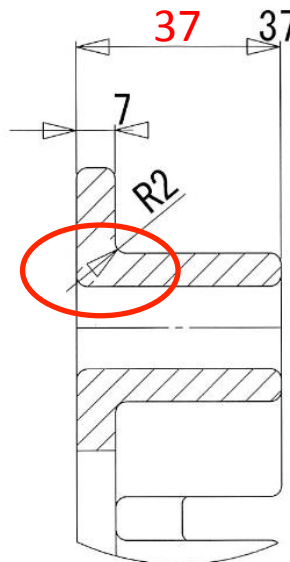
If you don't determine material, this column should blank

Example		指示なき場合：	名前	日付	東北大学工学部機械知能航空工学科	
		寸法はミミとする	製 図	Plotter name	名称： Product name	
		公差：	校 図	B3TM1631	万バジ	
		分数	設計承認			
		角度：機械加工	生産承認			
		小数点2桁	品質管理			
		小数点3桁	注記：			
		幾何公差の解釈：			サイズ	図面番号
		Material			A	課題1-A
		仕上げ			改訂	
次のアセンブリ	現在のアセンブリ部品				尺 度：1:1	重量：
適 用		図面測定不可			葉数	1 / 1
4		3	2		1	

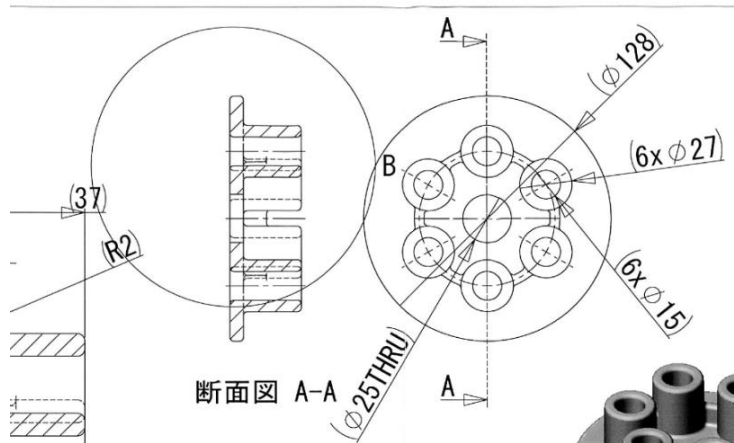
About dimension lines

- The dimension lines unify to based on JIS format
- The dimensions should be placement at center
- The arrows should not pile to the hatching
- The space between dimension lines should be at equal intervals
- The color of dimension line should written in black

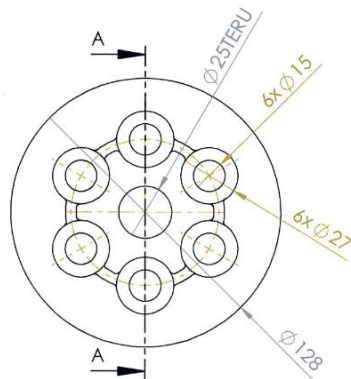
Example



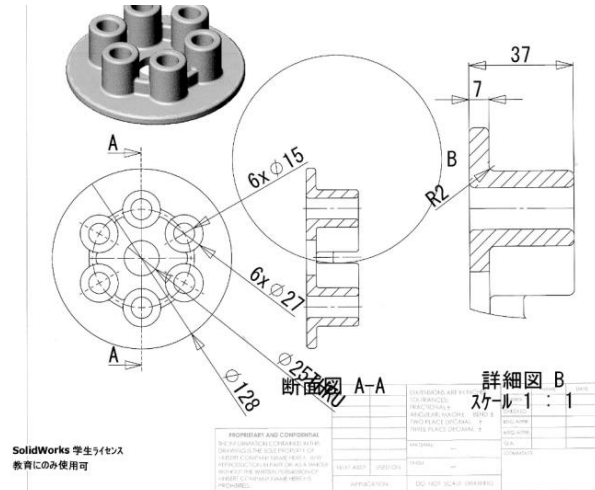
Bad examples



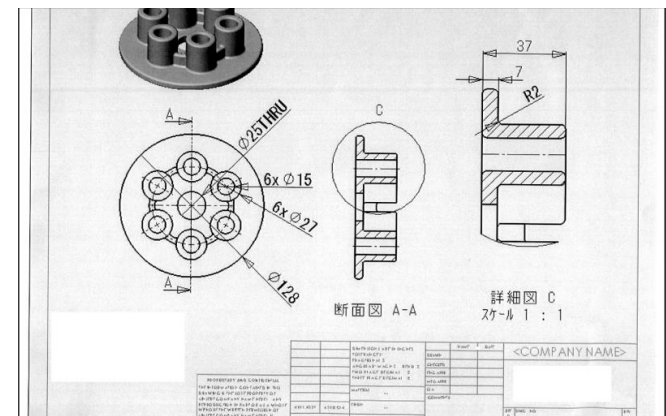
- The detail drawing is too large
- The dimension lines have parenthesis



- Dimension lines should not be colored
- Spell miss (TERU⇒THRU)



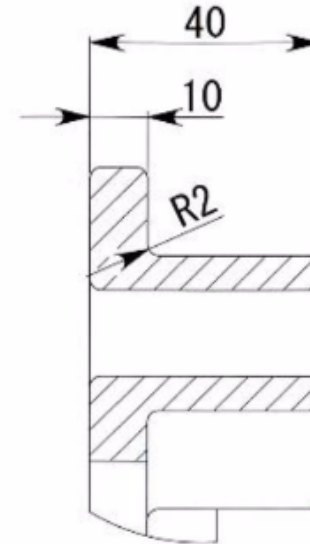
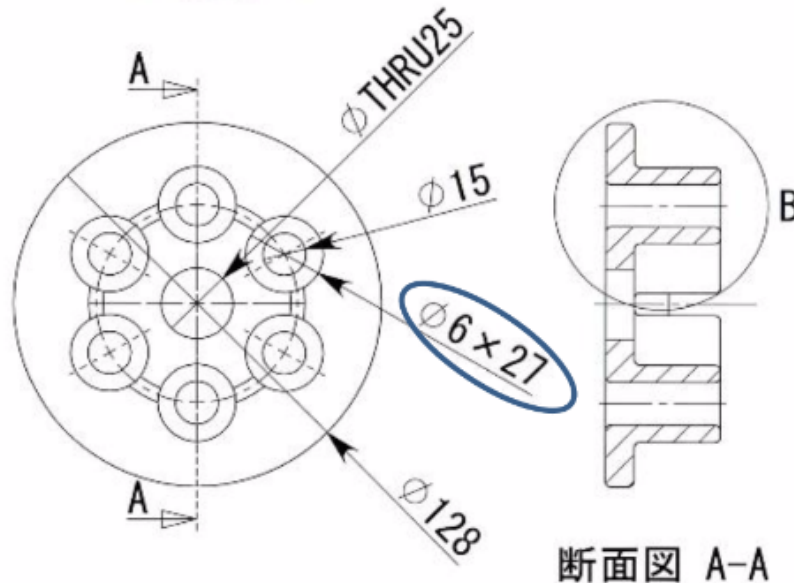
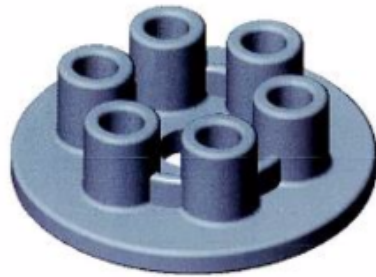
- The dimensions pile to drawing column



- The submit format should be PDF

Good example

※Personal name and Student ID number is hidden



詳細図 B
スケール 1 : 1

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <INSERT COMPANY NAME HERE>. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <INSERT COMPANY NAME HERE> IS PROHIBITED.		DIMENSIONS ARE IN (mm) TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		DRAWN: _____ CHECKED: _____ ENG APPR: _____ MFG APPR: _____ Q.A.: _____ COMPLETED: _____	NAME: _____ DATE: 2014.10.02	東北大学機械知能航空工学科
		MATERIAL: FC250				Pressure Plate
		NEXT ASSY: _____	USED ON: _____			
		APPLICATION: DO NOT SCALE DRAWING				
				SIZE: _____ A		SCALE: 1:1 WEIGHT: 1.34kg SHEET: 1 OF 1

※“断面図” is “cross section”, “詳細図” is “detail drawing”.

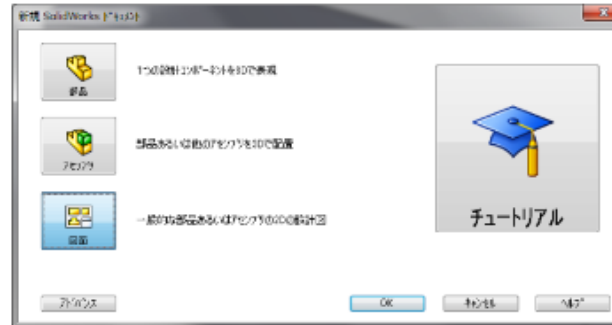
※This form have a little matter. It will open 27 holes of $\phi 6\text{mm}$.

Precautions

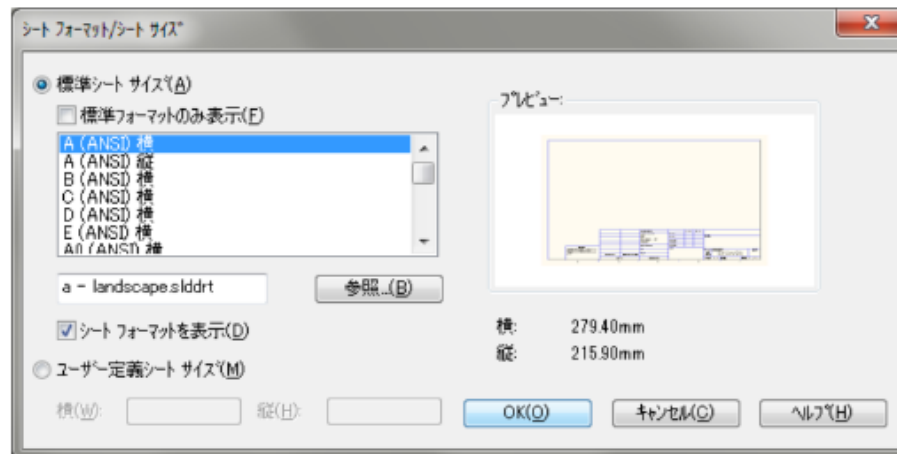
- Draw following basic referring to a textbook (drawing examples) of the drafting.
Review the kind of the line, the placement of the figure, how to write dimensions, etc.
- drawing maps have to be able to tell what you want to make to processor.
submit after you checked whether it is easy to see and demensions are all written.

Editing method of the drawing column

1 Create new drawing

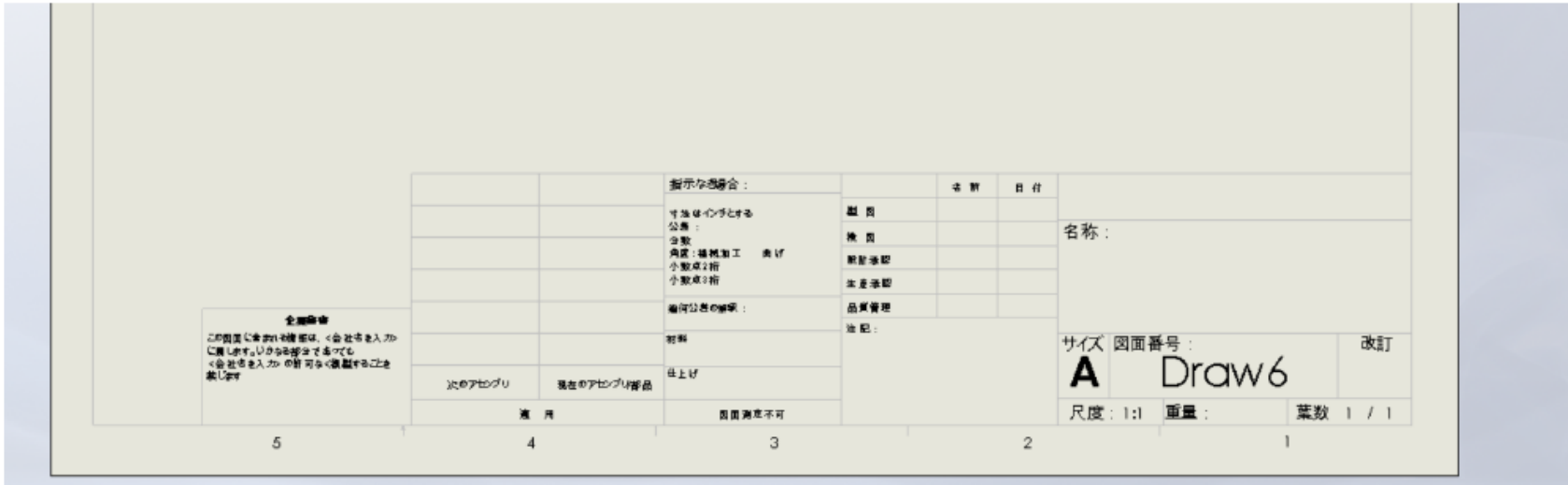


2 In this class, choose A(ANSI) horizontal as the sheet format.



Editing method of the drawing column

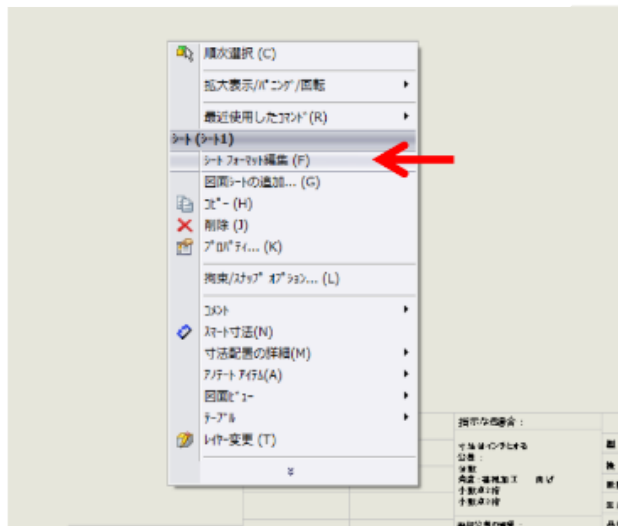
3 The drawing sheet should be as following.



4 right-click on the drawing sheet.

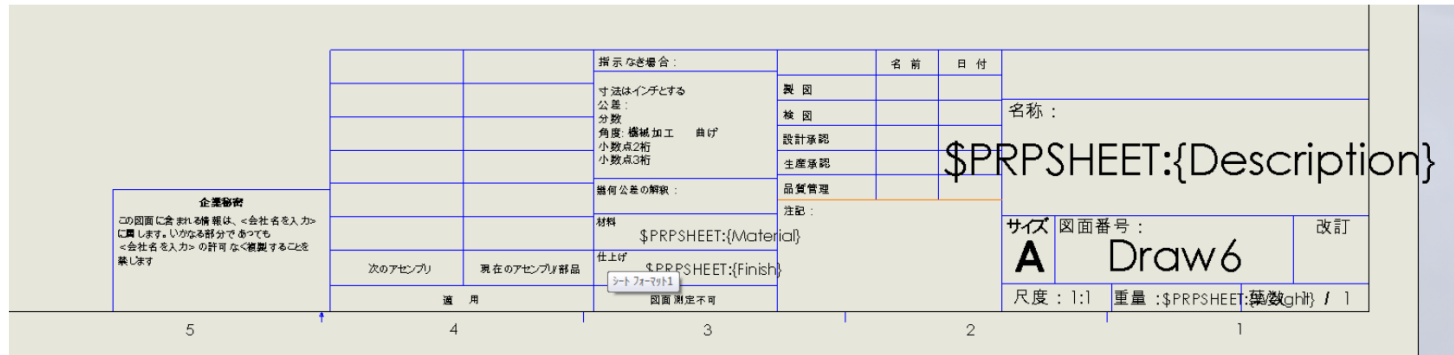
→edit sheet format

✂In JIS drawing column is like this



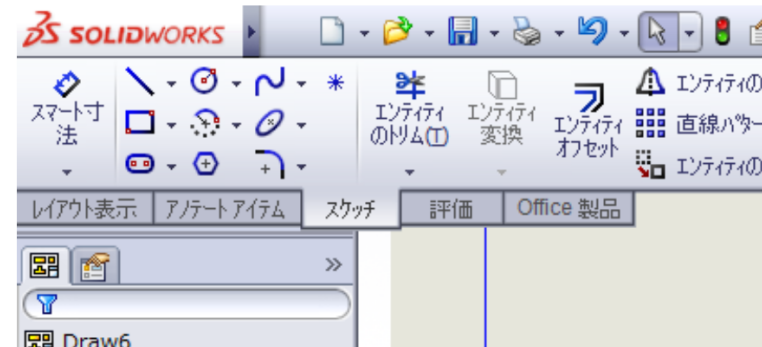
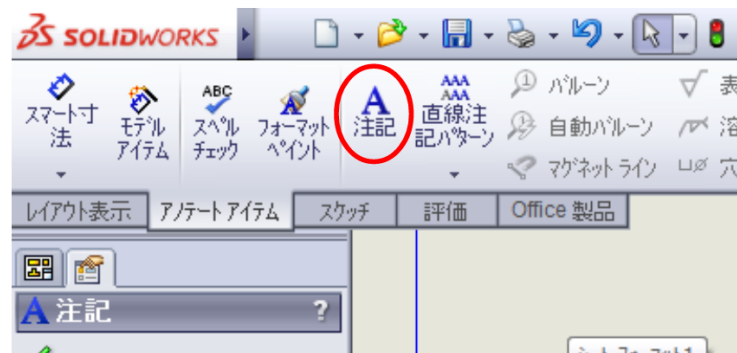

Editing method of the drawing column

5 drawing column get blue and get able to be edited
(double-click text and can edit, move of line etc are also available)



※ can add text at "annotation tool bar -notes"

※ can write & add lines at "sketch"
(ex when you wanna increase or divide the list)



At last

If you have a questions ,don't hesitate to ask us

Asai・Numata/Nagai labolatory
Room 405 of Mechanical building No.1

服部 悟 (Hattori Satoru)

hattori.satoru@aero.mech.tohoku.ac.jp

小田 泰之 (Oda Yasuyuki)

oda.yasuyuki@aero.mech.tohoku.ac.jp