Lesson 1

Structures

Beginning Drawing

Objectives

In this assignment you will learn the basics of an Engineering Drawing.

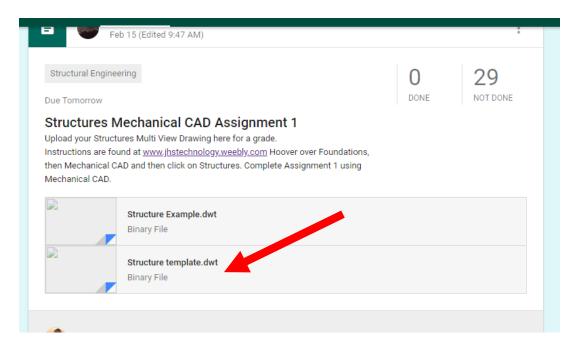
Getting Started

Detailed instructions will be given for the activities in assignment 1.

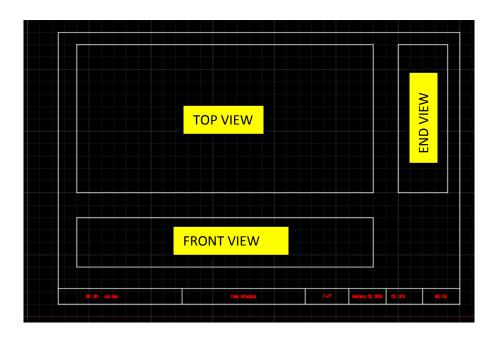
1. Select the Windows icon at the bottom left of the screen:



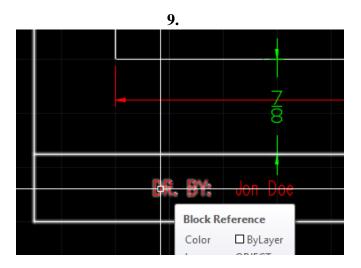
- 3. Select "Autodesk"
- 4. Select "AutoCAD 2016 English
- 5. Navigate to Google Classroom and download the structure template.dwt file.



- 6. Once the download is complete, double click on the file to open it. (Note: Mechanical CAD 2016 must already be opened.)
- 7. Notice that a **title block** (including borderlines) with the **drawing information** appears on the computer screen.



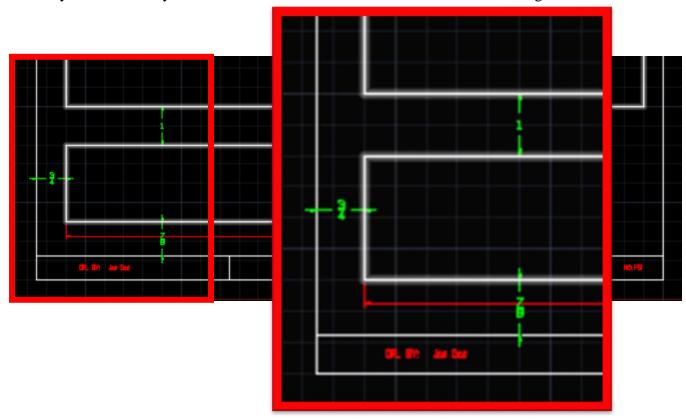
8. Double Click as shown to open the pop up so the Title Block can be updated.



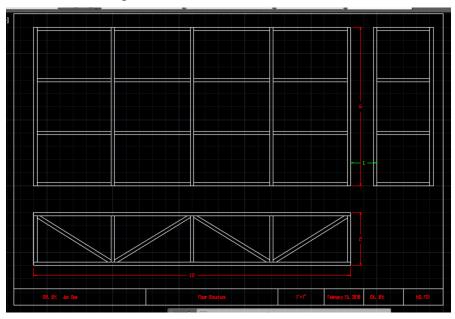
9. A window will appear and by first selecting the Tag (Name, Title, Title,....) and then entering a Value. (Tag: Name, Value= John Doe)



5. Using the drawing you did on graph paper for your Floor Structure begin by drawing the Front View as shown below. The green dimensions are only for reference in setting up your views. Only the red dimensions will be drawn on the finished drawing.



6. Once you have laid out the views it is time to complete them. Using the drawing you made to create a pattern to use in building your own floor structure, transfer your design to the views on the computer.



Saving Your Work

If you have not done so, create a folder in your computer profile and name it "Mechanical CAD".

To Save your drawing, select "Save As" and navigate to the Mechanical CAD folder in your 002LJTXXX folder. Name this File as, Structrues Last Name First Name

Ex.: StructuresDoeJohn

Submitting in Your Work for a Grade

Take a Print Screen of your drawing. Paste it into a Google Doc and submit it for a grade.

Terms to Know

Instructions: Copy the following terms into your notebook and define them.

Pattern

Multi-view drawing

Dimension

Offset

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Trim
Graph paper
Title Block
Borderline
Object line
Layer
Template
Block