DUE DATE _____ NAME _____

ENGR/DRAFT 105 Assignment #20

AutoCAD: Templates and Plotting (Mirror and Array Commands) – Chapter 7

Note: For the Lesson 7 Tutorial, you will need to copy your file A1_Template.dwg to a new file named A1_Template_In_Paper_Space.dwg. Use the "Cut" command to remove the title block from the Model Space. Click on the Layout1 tab (in the lower left corner of your drawing area) to switch to the Paper Space. Using snaps, "Paste" the title block into the Paper Space. Then follow the instructions in Chapter 7 to create a Viewport inside the Title Block: If a view is displayed, then delete the view. Set the Viewport layer as the current layer. View → Viewports → 1 Viewport. Select the viewport, then type Ch (or Modify → Properties). Then set the scale to 1:1 (you will later set the scale to 1:2 for Lesson 7). Then save the file. Note that before plotting, you will turn off the Viewport Layer so that it will not be plotted. Plot from the Layout 1 paper space, choose "Layout" as the "Plot area", and plot at 1:1 scale (the scale of the model space drawing is adjusted by changing the scale of the Viewport).

Note that you can save this drawing as an AutoCAD template file (A1_Template_In_Paper_Space.dwt), which can be chosen in the Startup Dialog Box (the "Startup Dialog Box" option is under Tools → Options → Systems tab). The advantage of a template is that the filename is unspecified – you will save your work to a new file *.dwg (a regular drawing that won't be shown as a template file in the startup dialog box). When you use a drawing file (*.dwg) as a template, you must use the "Save As" command to change the name (to avoid overwriting the template).

Note: It is not necessary to match the complicated dimension style exactly as it is drawn in Lesson 7 – However, if you do match it "exactly", then you will receive 3 Points Extra Credit (each drawing is worth 10 Points Max, unless otherwise noted):

- Hard copy of Lesson 7 Tutorial (Note: Play around with the DDIM → Modify → Fit tab, and Text Placement and Fine Tuning in order to get the radius and diameter dimension lines to appear like they do in the textbook. Note that since this drawing will be 1:2 scale in paper space, you must make all of the text twice as large (i.e., instead of 1/8" text, you will need 1/4" text – you can change dimension text size in DDIM; other text can be changed easily using the paint brush (match properties) tool). Include dimensions and notes – my file would be named NA_L7_F04.dwg)
- Hard copy of drawing 7_1 (Note that Exercise 7_1 requires only one view. Include dimensions and notes – my file would be named NA_E7_1_F04.dwg). **Note: You have to match the Dimension Style Exactly as shown.**

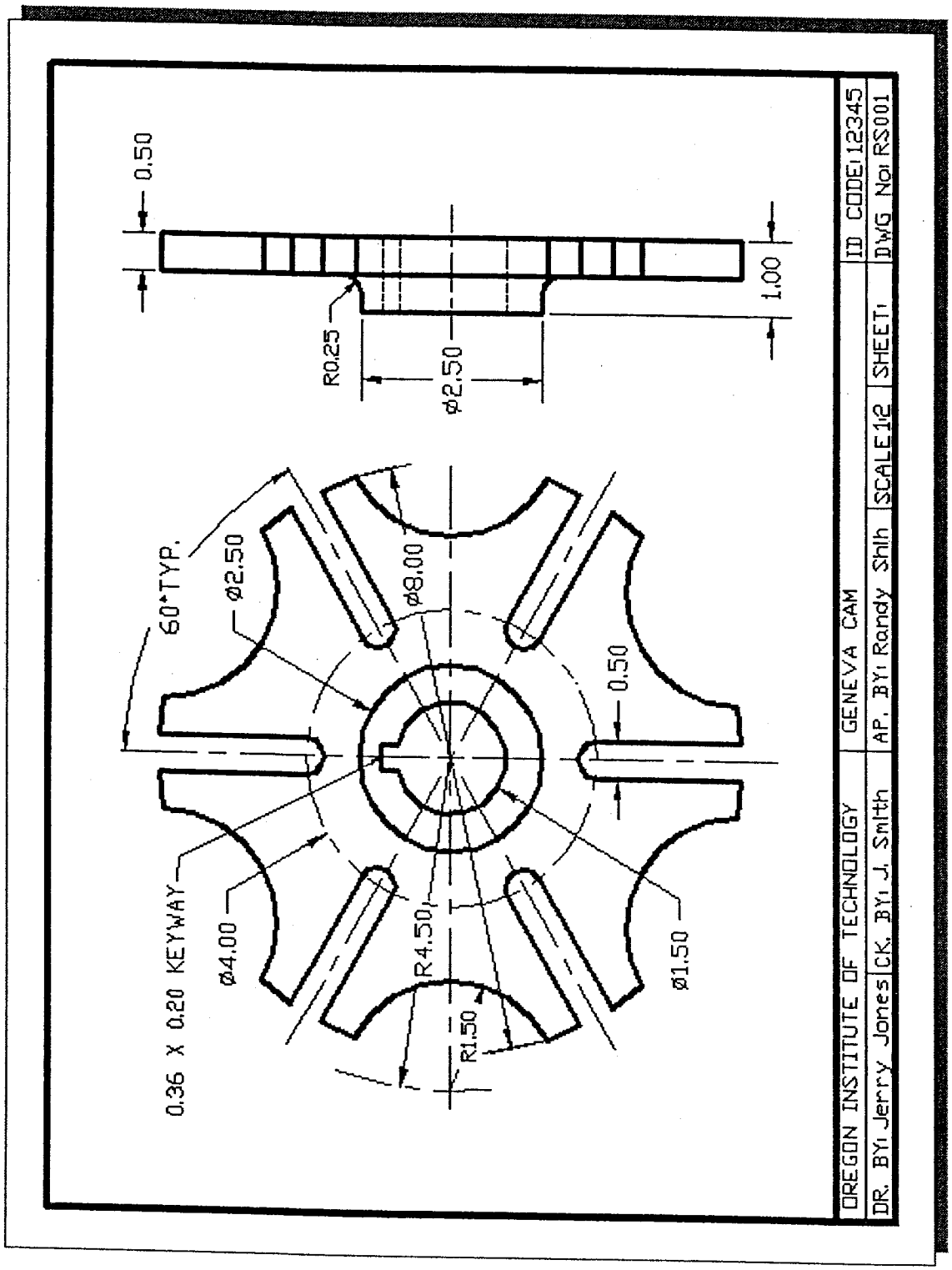
Extra Credit (5 Points Max – The other drawings are worth 10 points):

- Hard copy of drawing 7_2 (Note that Exercise 7_2 requires more than one view. At a minimum, you should show all circular features as a circle in one of the views. Include dimensions and notes – my file would be named NA_E7_2_F04.dwg)

Be sure to include the following (in the title block section) on each AutoCAD drawing:

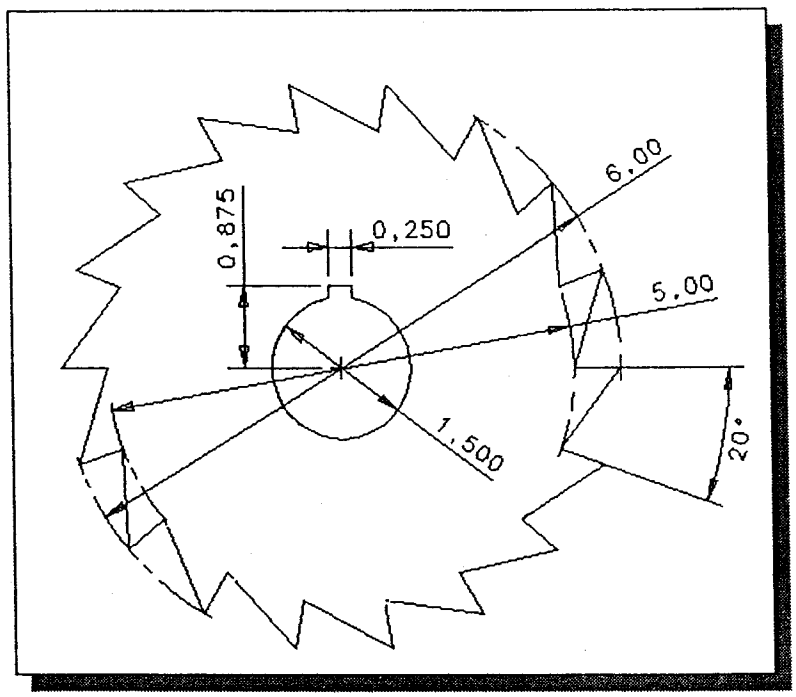
DRAWING TITLE (e.g., SAW BLADE)
NAME (YOUR NAME)
FILENAME.dwg (e.g., NA_E7_2_F04.dwg)
Date (e.g., 10/23/04)
Scale (e.g., 1:1)

Staple this sheet to the front of your drawings in the correct order. Write your name at the top of the page. Please staple any 17" x 11" landscape sheets face up, and then fold back the right side to make the packet 8.5" x 11".


0.50
1.00
R0.25
ø2.50
60°TYP.
ø2.50
ø8.00
0.50
0.36 X 0.20 KEYWAY
ø4.00
R4.50
R1.50
ø1.50
OREGON INSTITUTE OF TECHNOLOGY
GENEVA CAM
ID CODE: 12345
DR. BY: Jerry Jones
CK. BY: J. Smith
AP. BY: Randy Shih
SCALE: 1:2
SHEET:
DWG No: RS001

Exercises:

1. Plate thickness : 0.125 inch



2.