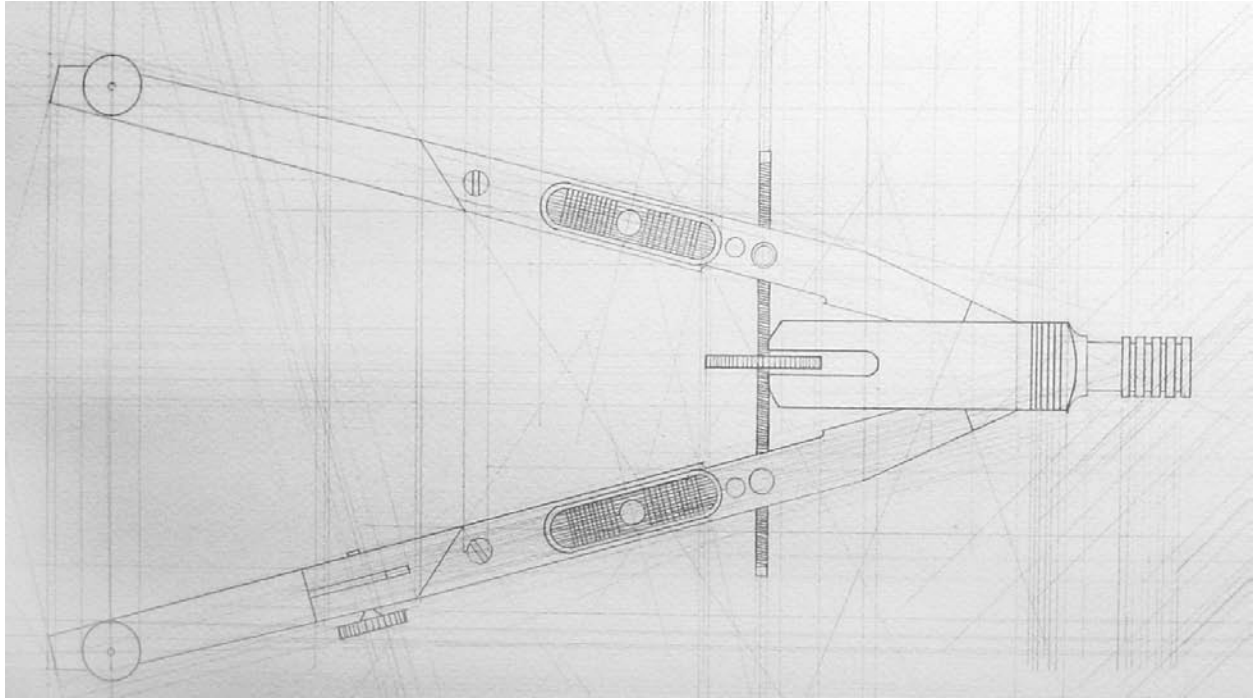


Course Number and Title: ARCH 151 / Architectural Drawing I / 3.0 Credits

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Plan Drawing by David Halter, Drexel Student

PROJECT 1, ASSIGNMENT 3: Orthographic Projection

Careful drafting requires the precise use of tools, application of technique and focused attention to detail. When observing an object to draft, we must make a mental tally of all the components that will go into our drawings: edges, textures, changes in material, changes in plane, etc. When we draft, we assign these elements differing **line weights** in order to add **depth** to an otherwise two-dimensional graphic.

The three line weights used are primary, secondary, and tertiary. Use a fourth (very light) line weight – construction – for the layout of the page. In class, you completed a drafting exercise in which you developed these distinct line weights and practiced your drafting technique (sharpening the lead, rolling the leadholder between thumb and forefinger, use of triangles and scale, measuring for exact line intersections).

Recall this exercise for the next assignment in which you will draft a plan and an elevation of your object on one sheet of 18" x 24" vellum.

Assignment continued on reverse...

- Draft these views at a scale of 1:1 – use your architect's scale to measure your object.
- Begin by using construction lines to lay out the drawing.
- Add other lines as this information becomes known, reserving primary lines for last.
- Recall that line weights represent the following:
 - Primary: foreground elements
 - Secondary: change of plane, middle ground elements
 - Tertiary: background elements, surface textures
 - Construction: layout lines, helpful geometry
 - Remember, all construction lines are to be thought of as objects. If you are using curves, draft them as *complete circles*. Straight guidelines must go from edge to edge of the page.
- Avoid erasing! Erasing will ruin the careful guideline network you create, so draft carefully and plan ahead before committing to dark line weights.
- Use the concepts of orthographic projection to aid in the layout of these drawings: if you draft the plan first, you may then draw guidelines on the page to aid in the drafting of the elevation.
- Refer to Design Drawing Chapter 5: Pictorial Systems & Chapter 6: Multiview Drawings

Assignment Due: 2pm, Tuesday Oct 13 (Section 1) or Thursday Oct 15 (Section 2)

- Be prepared to discuss your drafted drawings and your process in the next class.
- Bring your object with you to class next week.
- No scanning requirement for this week.

Assignment Objectives:

Focus on the skills of precise survey documentation as an initial step in drafting; understand the use of line weights as a tool towards the conveyance of differing sets of information and incorporation of depth in two-dimensional representation; develop vocabulary particular to the techniques of architectural graphic representation; become familiar with the technique of drafting and the tools involved.