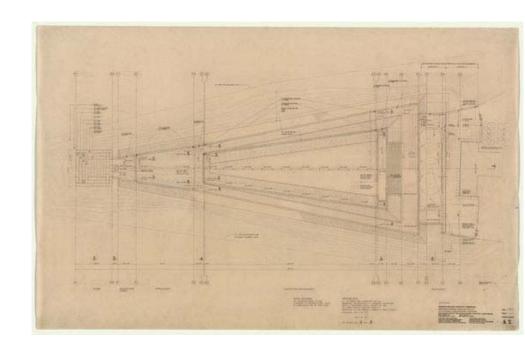
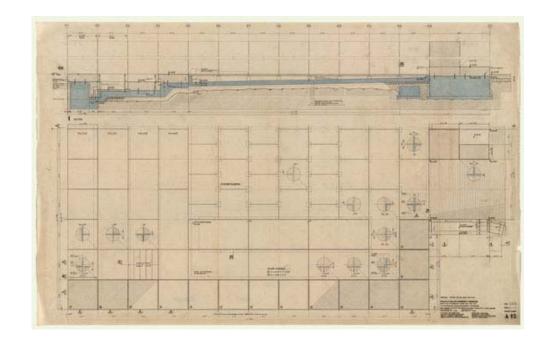
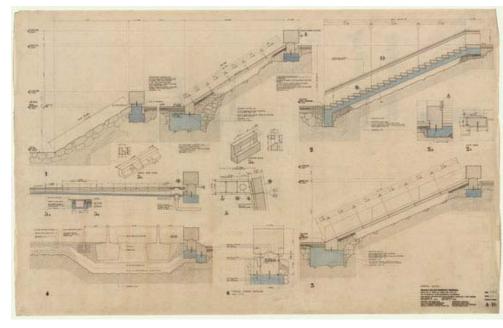
CMCE 1110: Construction Drawings I

Professor Anderson nanderson@citytech.cuny.edu

REFERENCE: D.K.CHING, ARCHITECTURAL GRAPHICS







DRAWING STANDARDS:

Standard conventions are essential for clear, unambiguous written, oral, and graphical communication. Drawings are used by a variety of trades to communicate their ideas: engineers, architects, contractors, vendors, fabricators...

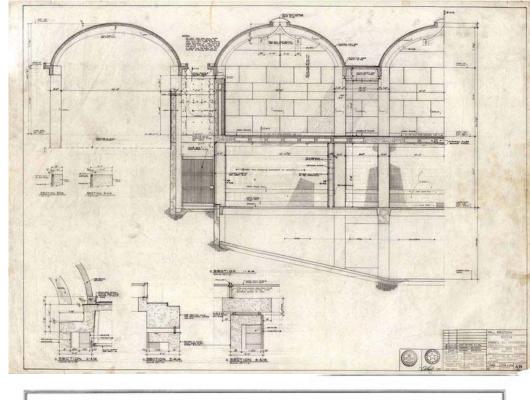
Standards ensure that a drawing conveys the same meaning to all who read them.

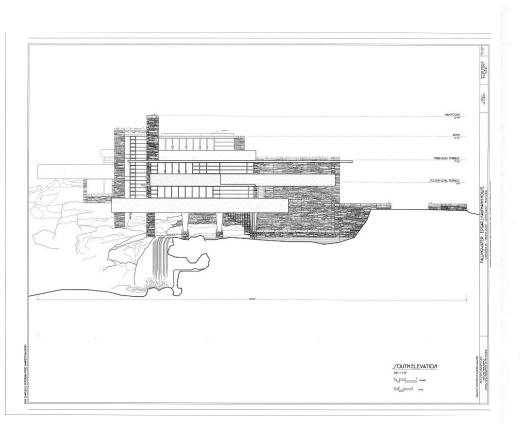


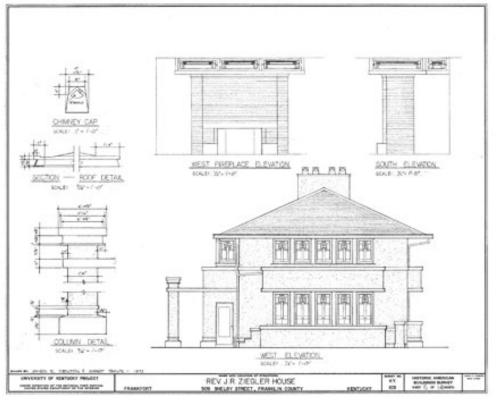
TITLEBLOCK and SHEET FORMAT

DRAWING STANDARDS:

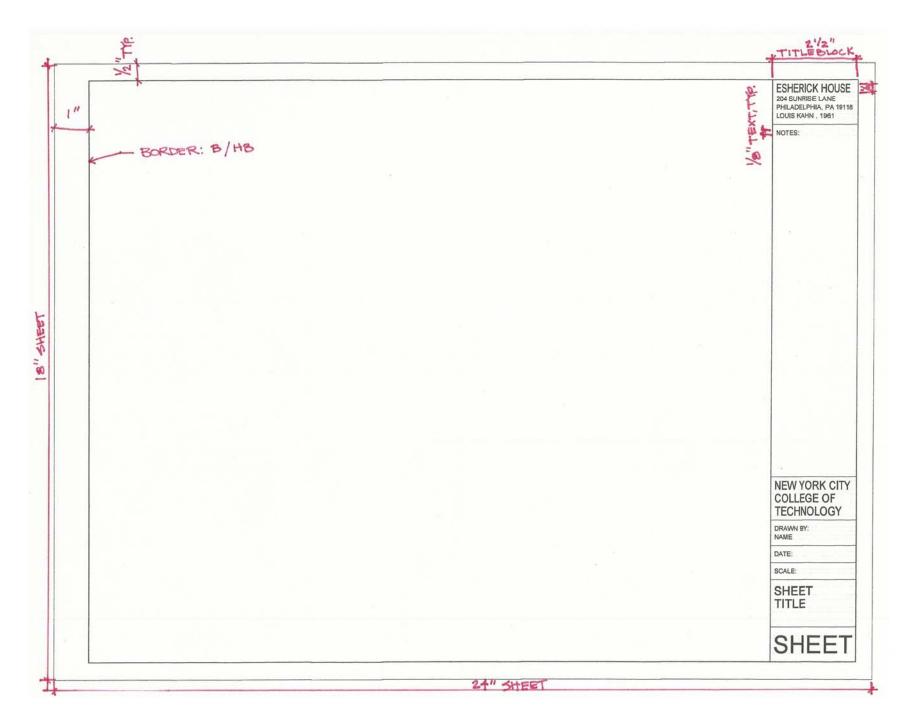
TITLEBLOCK and SHEET FORMAT



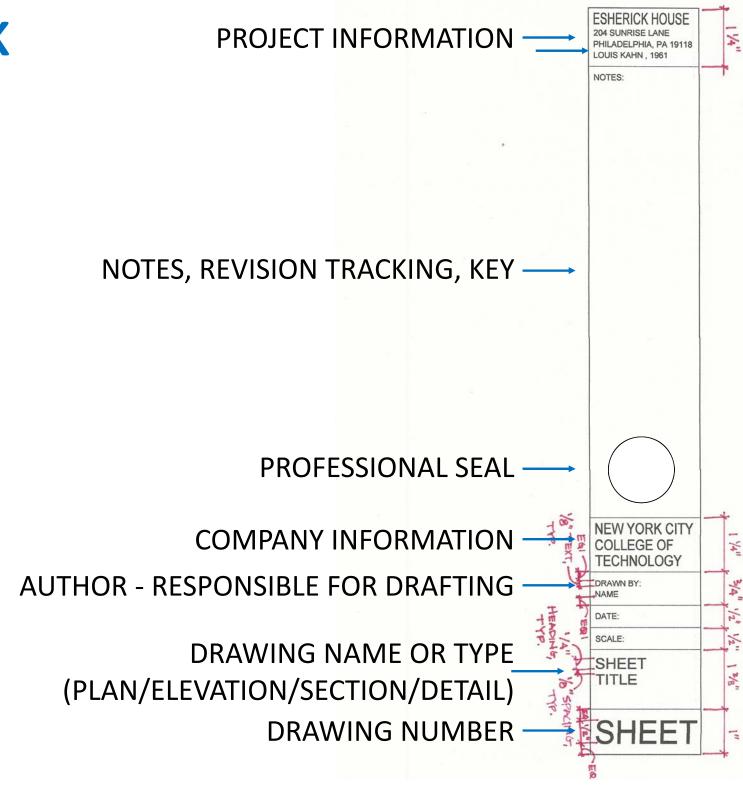




SHEET FORMAT



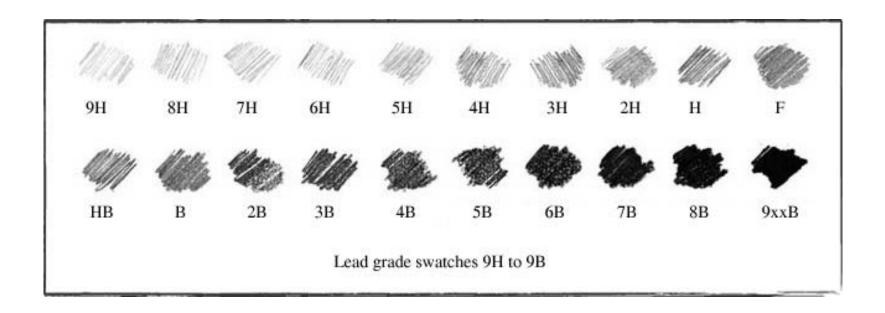
TITLEBLOCK

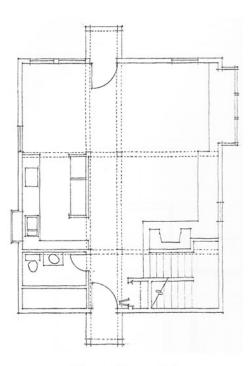


DRAWING STANDARDS: LINEWORK

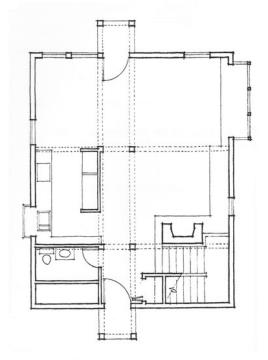
LINEWEIGHT

				EXTRA FINE
			FINE	
		NORMAL		
	HEAVY			
EXTRA HEAVY				





Single lineweight



Correct lineweights

LINEWORK

LINEWEIGHT

In theory, all lines should be uniformly dense for ease of readability and reproduction. Line weight is therefore primarily a matter of width or thickness. While inked lines are uniformly black and vary only in width, pencil lines can vary in both width and tonal value, depending on the hardness of the lead used, the tooth and density of the surface, and the speed and pressure with which you draw. Strive to make all pencil lines uniformly dense and vary their width to achieve differing line weights.

Heavy

- Heavy solid lines are used to delineate the profiles of plan and section cuts (see pages 54 and 71) as well as spatial edges (see page 99).
- Use H, F, HB, or B leads; pressing too hard to draw a bold line indicates that you are using too hard of a lead.
- Use a lead holder or draw a series of closely spaced lines with a 0.3 mm or 0.5 mm mechanical pencil; avoid using a 0.7 mm or 0.9 mm pencil for drawing heavy line weights.

Medium

- · Medium-weight solid lines indicate the edges and intersections of planes.
- · Use H. F. or HB leads.

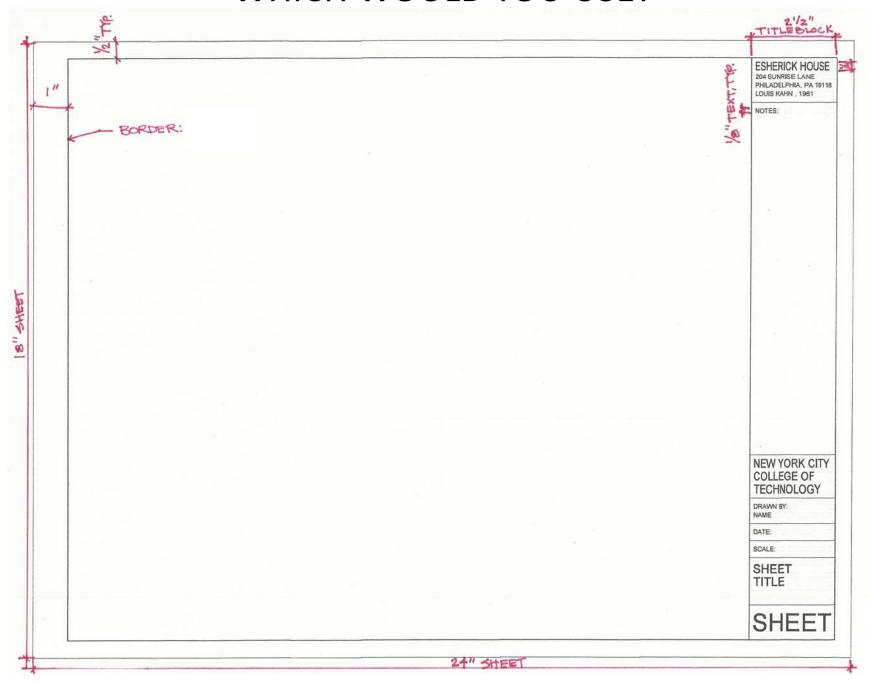
Light

- Lightweight solid lines suggest a change in material, color, or texture, without a change in the form of an object.
- · Use 2H, H, or F leads.

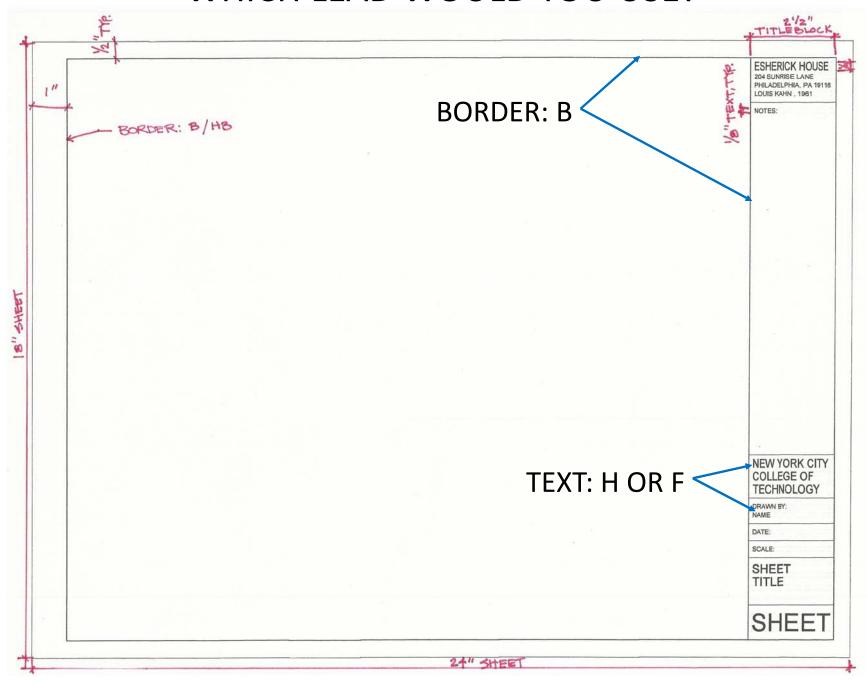
Very Light

- Very light solid lines are used to lay out drawings, establish organizing grids, and indicate surface textures.
- Use 4H, 2H, H, or F leads.

LINEWEIGHT WHICH WOULD YOU USE?

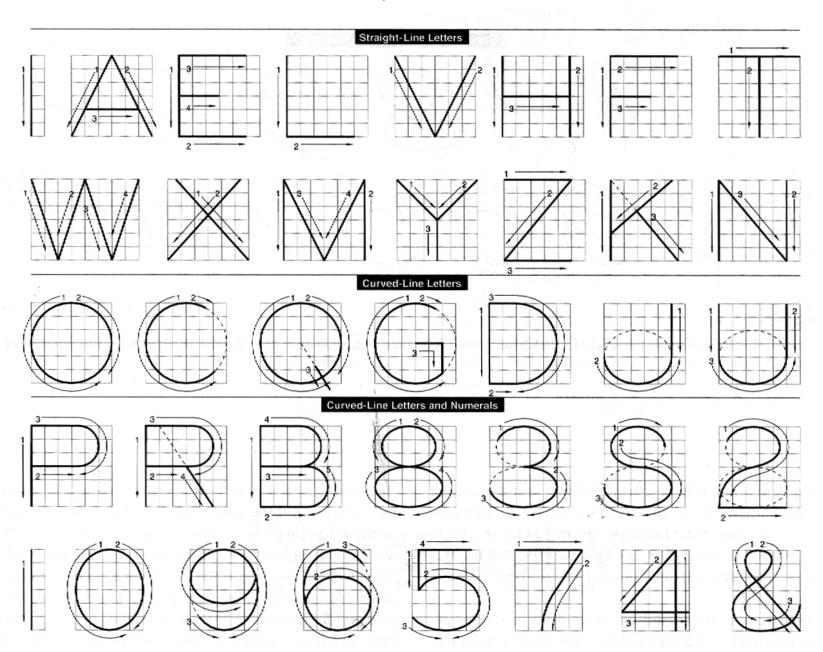


LINEWEIGHT WHICH LEAD WOULD YOU USE?

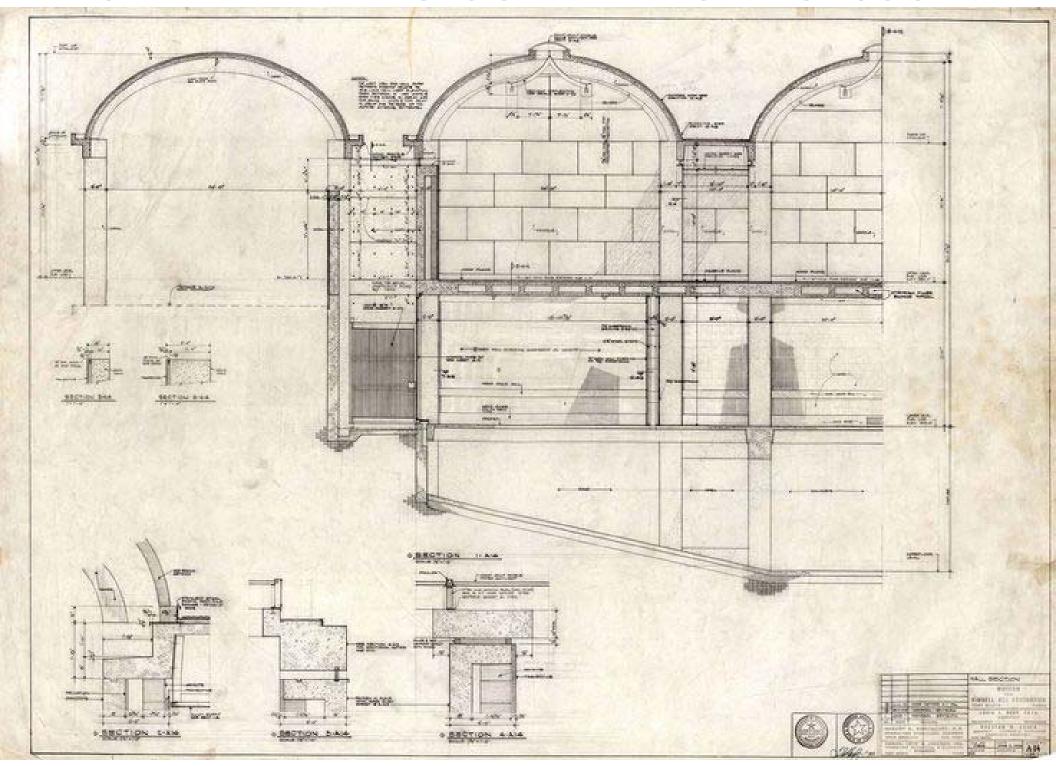


DRAWING STANDARDS: LETTERING

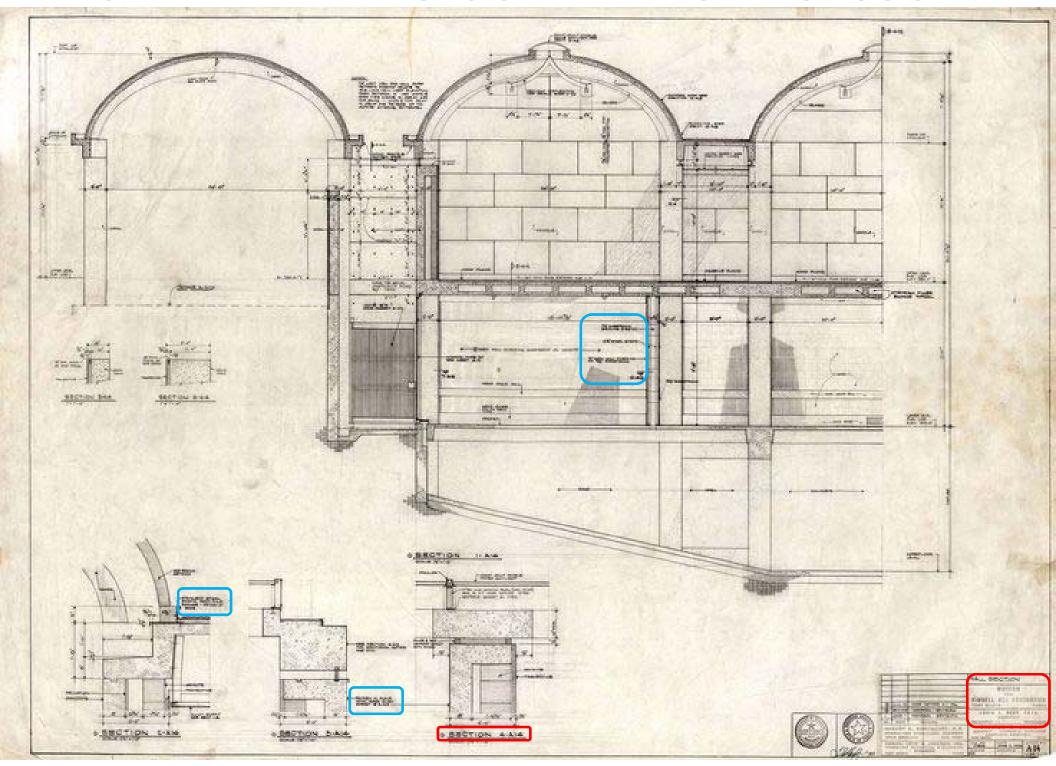
USE ONLY CAPITAL LETTERS, SINGLE STROKE GOTHIC TYPE



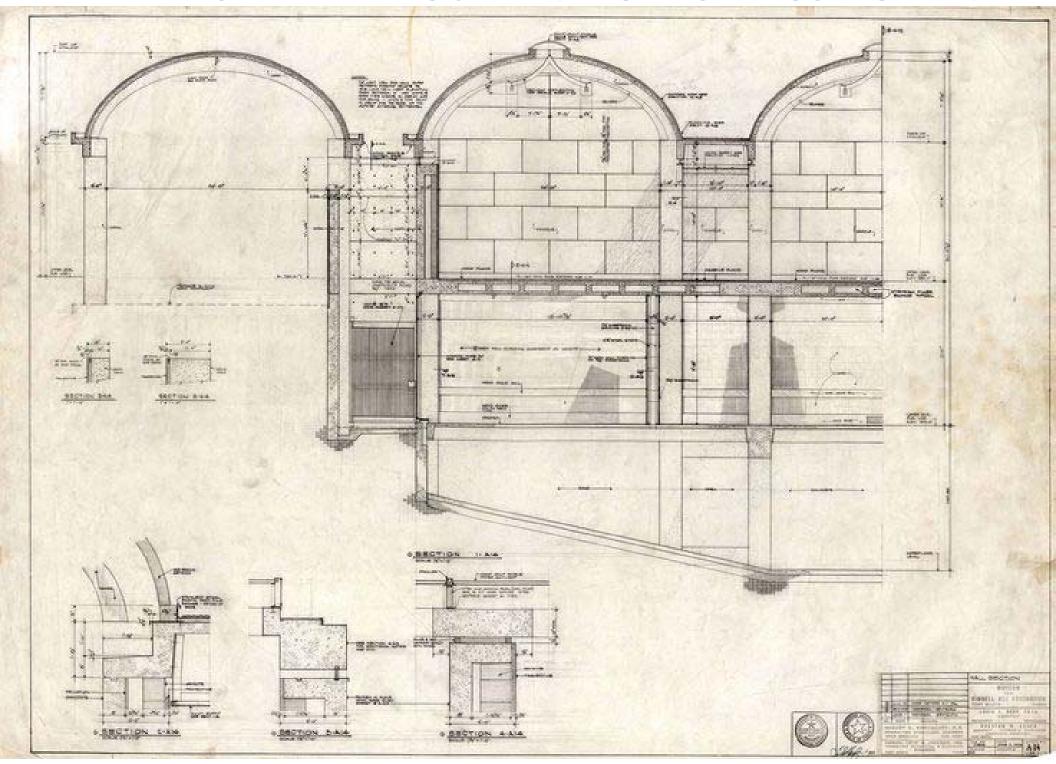
HOW MANY VARIATIONS OF TEXT HEIGHT DO YOU SEE?



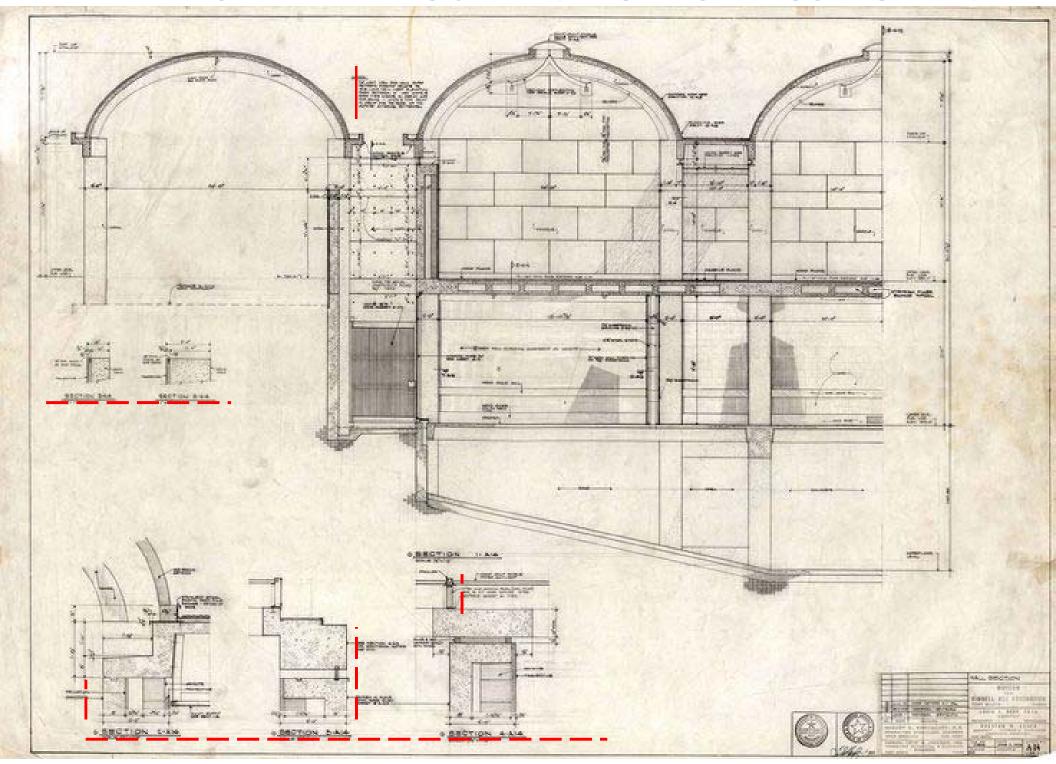
HOW MANY VARIATIONS OF TEXT HEIGHT DO YOU SEE?



WHERE IS THE TEXT LOCATED? HOW IS IT POSITIONED?



WHERE IS THE TEXT LOCATED? HOW IS IT POSITIONED?



LETTERING ERRORS TO AVOID:

ESTIMATE

GOOD EXAMPLE!

EstiMaTe

Letters not uniform in style.

ESTIMATE ESTIMATE

Letters not uniform in height.

EST/MATE ESTIMATE

Letters not uniformly vertical or inclined.

ESTIMATE ESTIMATE

Letters not uniform in thickness of stroke.

ESTIMATE

Areas between letters not uniform.

ASSIGNMENT: A001 COVER SHEET

