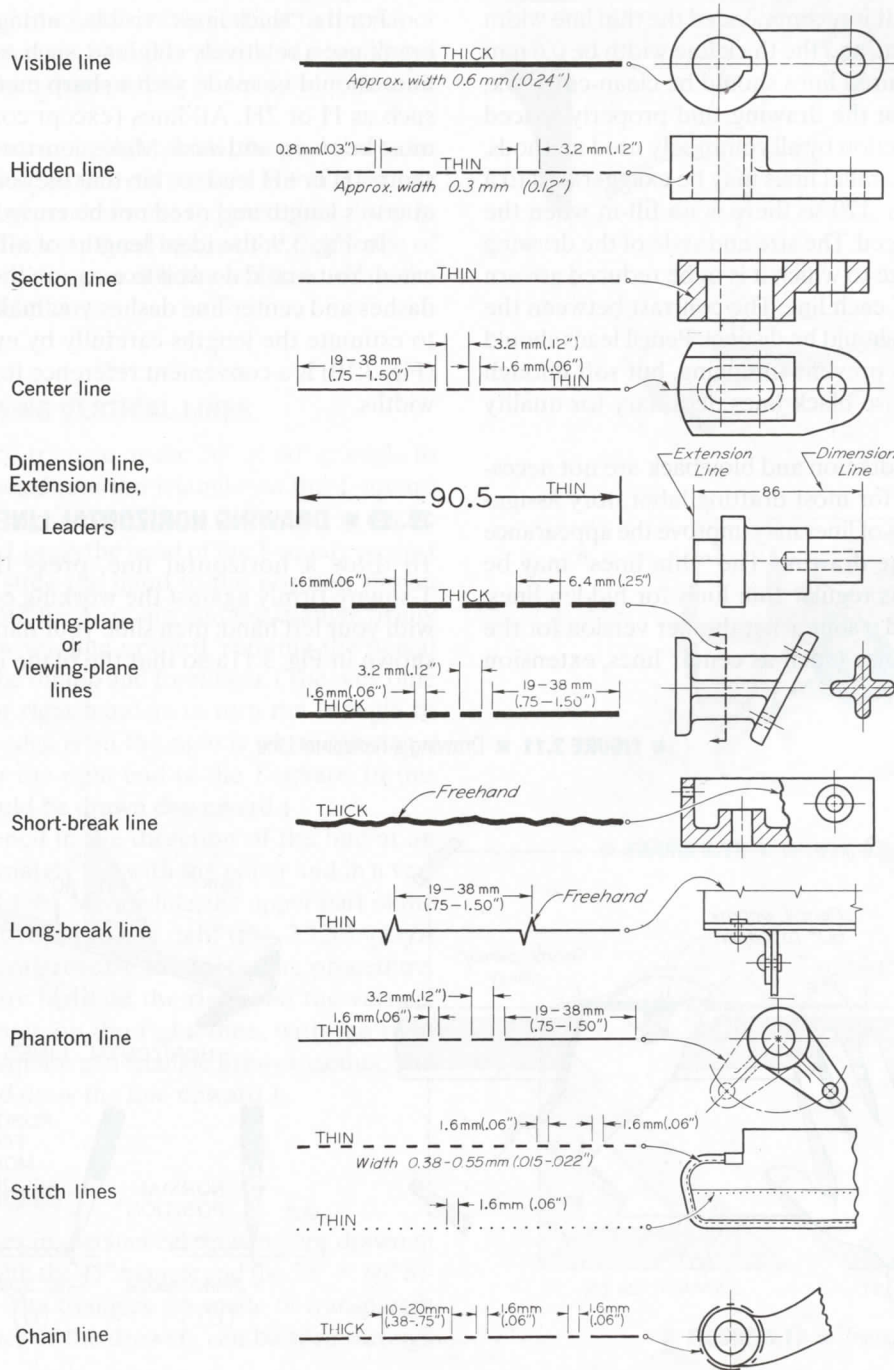


absorbs moisture from the atmosphere and becomes soft. This can be recognized because the paper expands and becomes wrinkled. It is necessary to select softer leads to offset the softening of the paper. If you have been using a 2H lead, for example, change to an F until the weather becomes drier.

3.8 ■ ALPHABET OF LINES

Each line on a technical drawing has a definite meaning and is drawn in a certain way. The line conventions endorsed by the American National Standards Institute, ANSI Y14.2M-1992, are presented in Fig. 3.9, together with illustrations of various applications.

■ FIGURE 3.9 ■ Alphabet of Lines (Full Size).



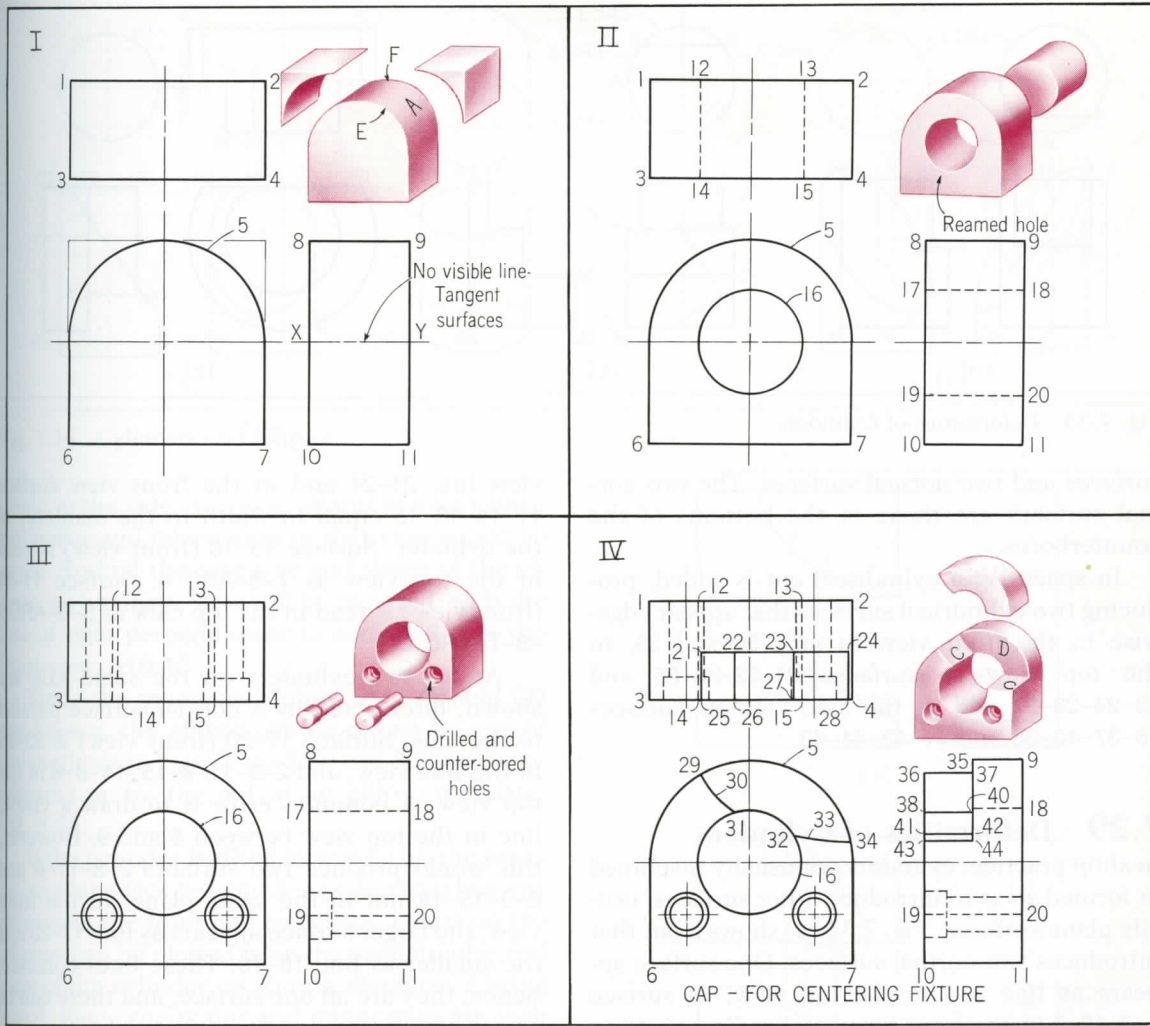


Fig. 7.32 Machining a Cap—Cylindrical Surfaces.

The contour elements 5–8 and 7–10 in the front views appear as points 3 and 1 in the top views. The contour elements 11–14 and 13–16 in the side views appear as points 2 and 4 in the top views.

In Fig. 7.32 four possible stages in machining a Cap are shown, producing several cylindrical surfaces. In space I, the removal of the two upper corners forms cylindrical surface A which ap-

pears in the top view as surface 1–2–4–3, in the front view as arc 5, and in the side view as surface 8–9–Y–X.

In space II, a large reamed hole shows in the front view as circle 16, in the top view as cylindrical surface 12–13–15–14, and in the side view as cylindrical surface 17–18–20–19.

In space III, two drilled and counter-bored holes are added, producing four more cylindrical

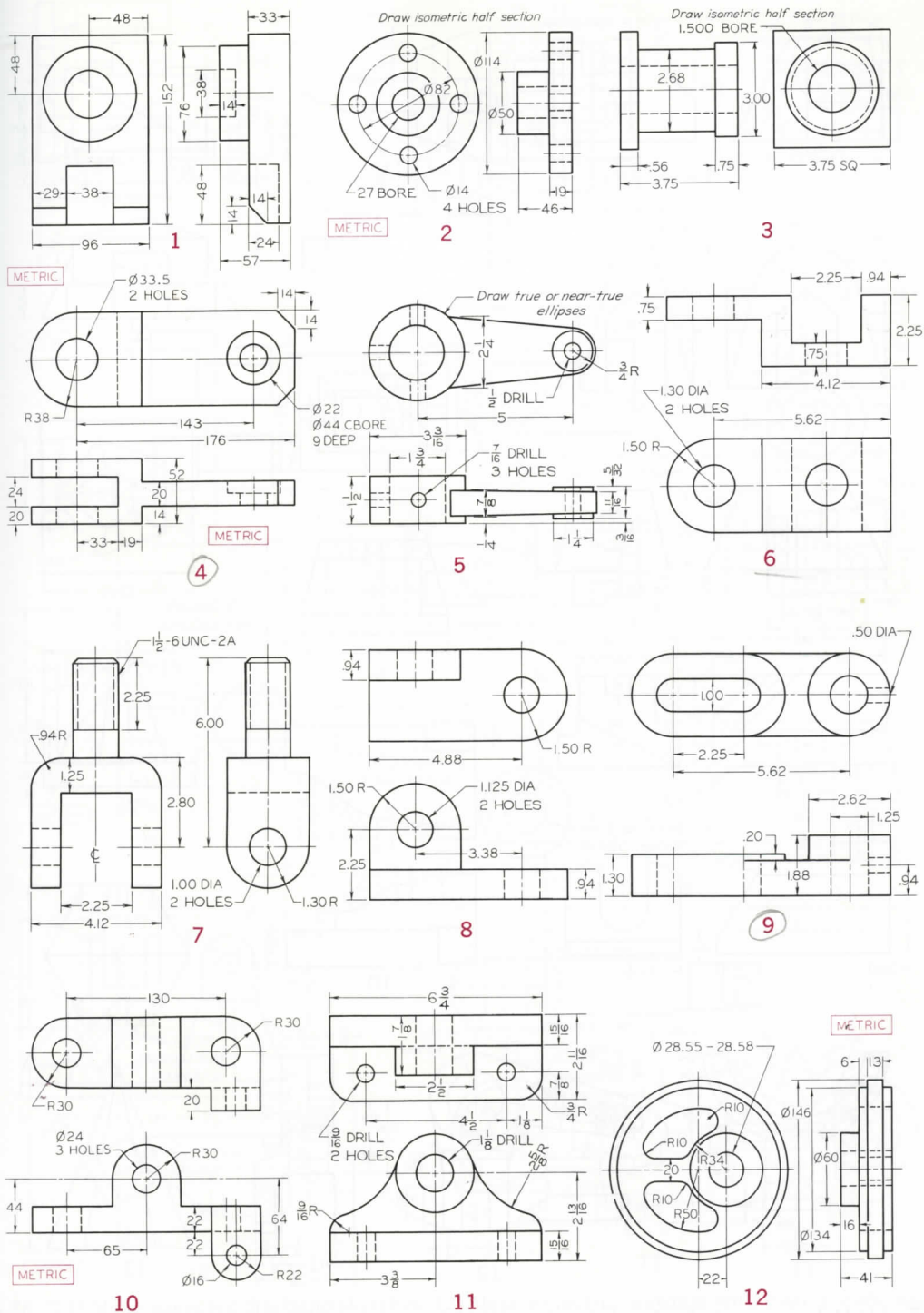
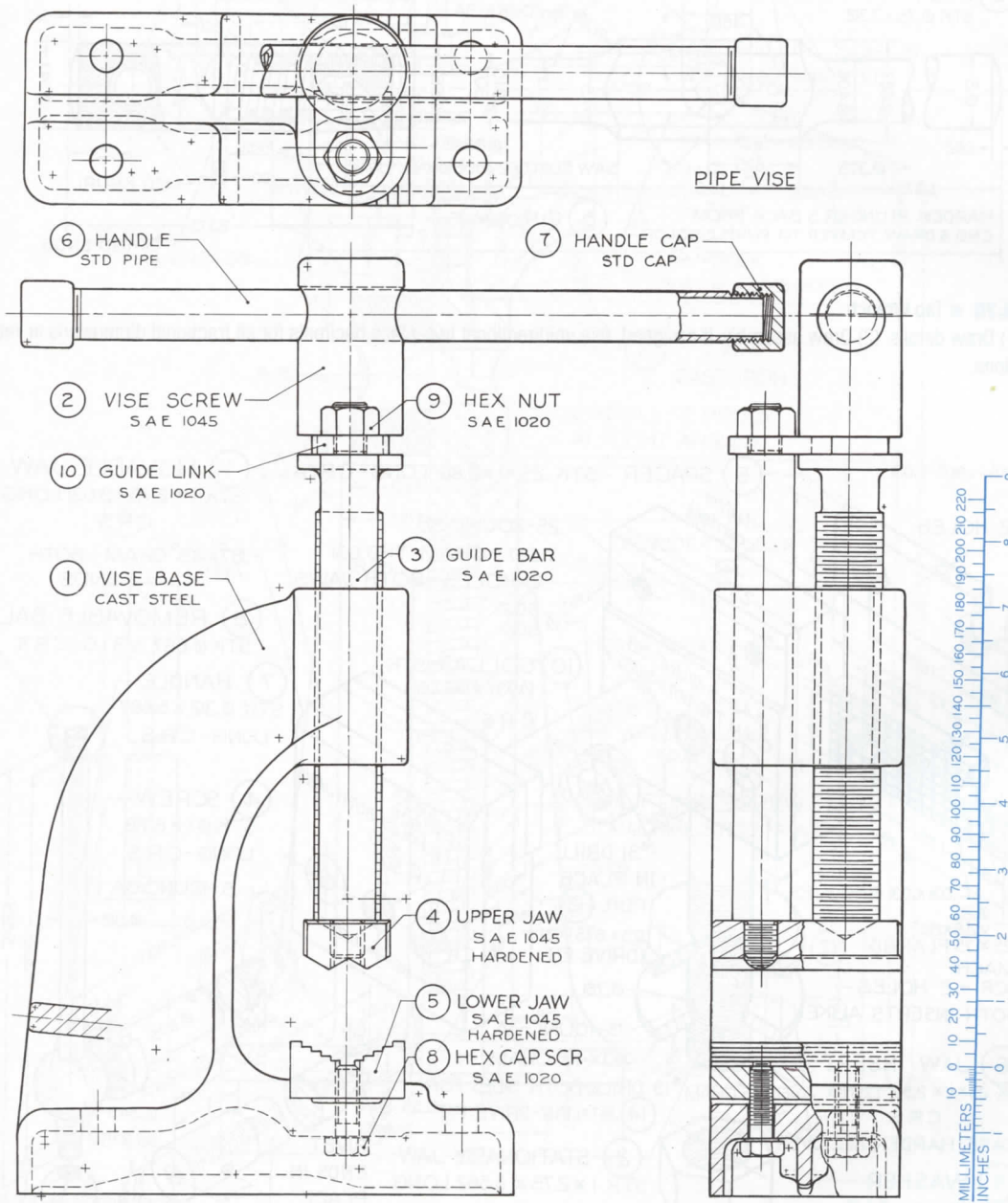
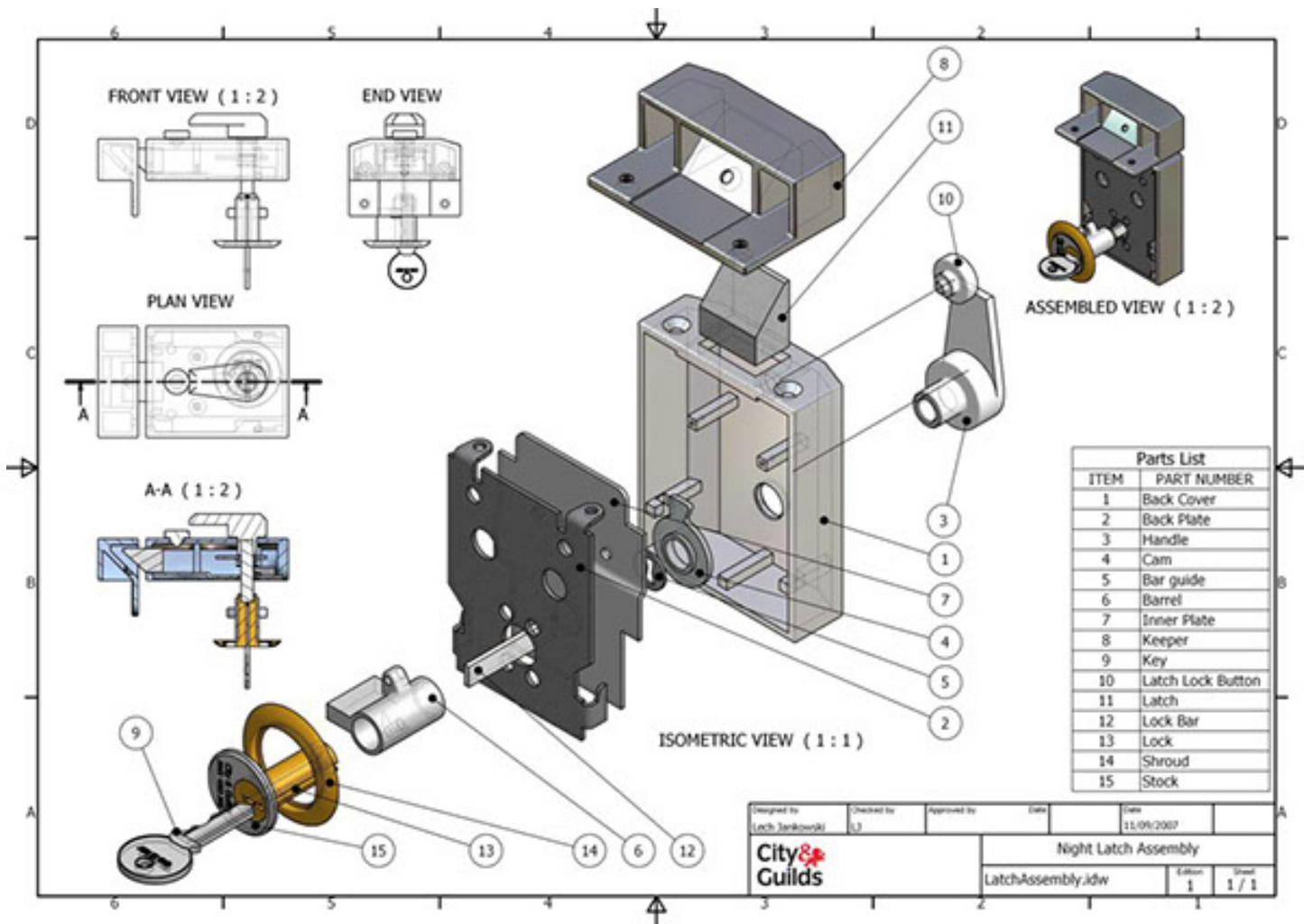


Fig. 18.56 (1) Make isometric freehand sketches. (2) Make isometric drawings with instruments, using Size A or A4 sheet or Size B or A3 sheet, as assigned. (3) Make dimetric drawings with instruments, using Size A or A4 sheet or Size B or A3 sheet, as assigned, and position assigned from Fig. 18.42. (4) Make trimetric drawings, using instruments, with axes chosen to show the objects to best advantage. If dimensions are required, study §18.25.



■ FIGURE 14.74 ■ Pipe Vise.

Prob. 14.46: (1) Draw details. (2) Draw assembly. To obtain dimensions, take distances directly from figure with dividers; then set dividers on printed scale and read measurements in millimeters or decimal inches as assigned. All threads are general-purpose metric threads (see Appendix 15) or Unified coarse threads except the American National Standard pipe threads on handle and handle caps.



Parts List	
ITEM	PART NUMBER
1	Back Cover
2	Back Plate
3	Handle
4	Cam
5	Bar guide
6	Barrel
7	Inner Plate
8	Keeper
9	Key
10	Latch Lock Button
11	Latch
12	Lock Bar
13	Lock
14	Shroud
15	Stock

Designed by Lech Janikowski	Checked by LJ	Approved by	Date 11/01/2007
		Night Latch Assembly	
		LatchAssembly.idw	Sheet 1 / 1