

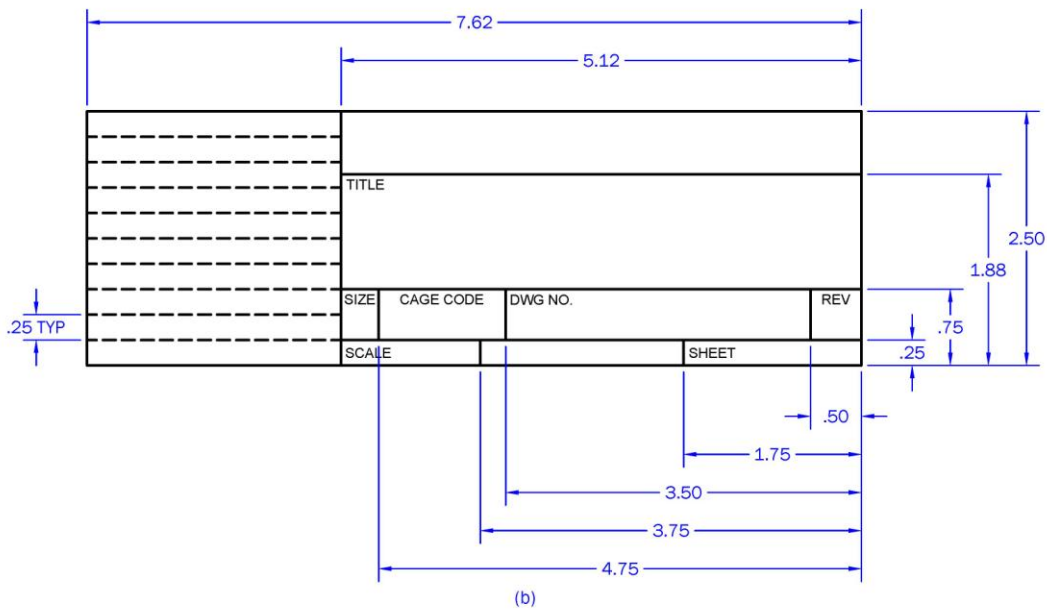
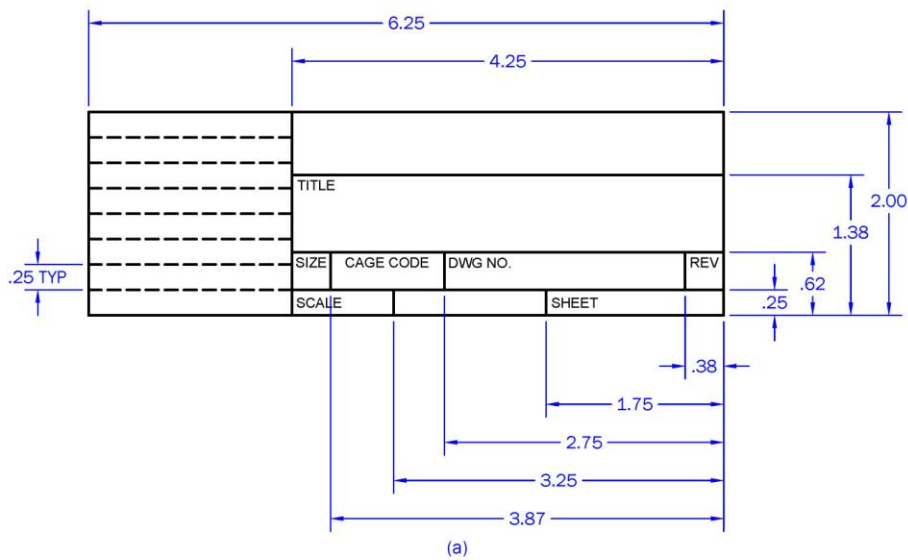
## *Dimensions of Sheet Items*

### **DIMENSIONS OF SHEET ITEMS**

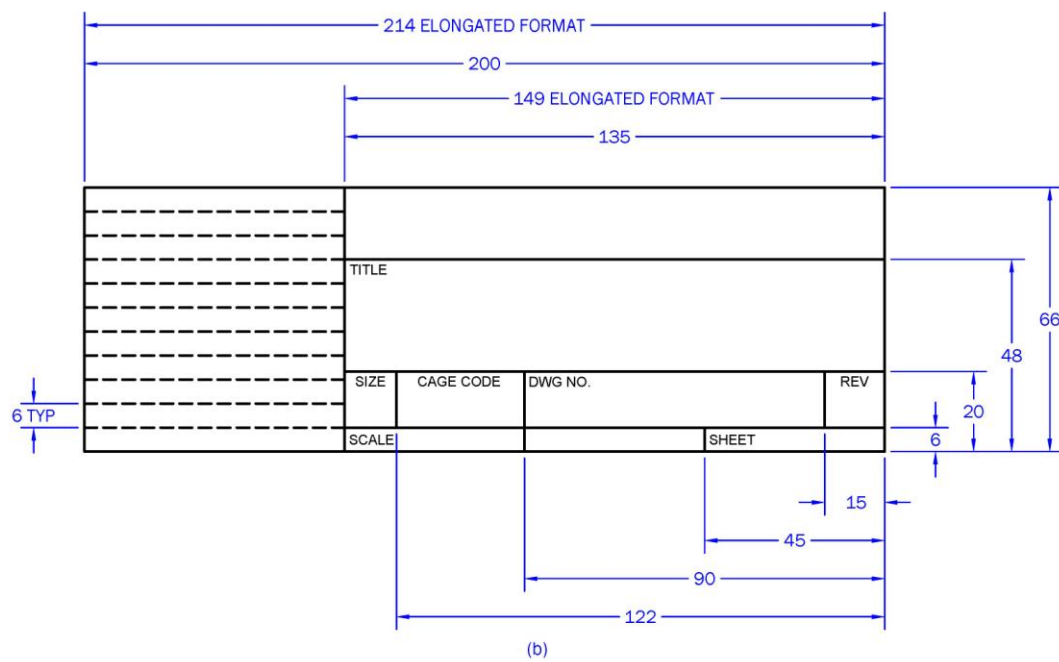
ASME Y14.1, *Decimal Inch Drawing Sheet Size and Format*, and Y14.1M, *Metric Drawing Sheet Size and Format*, provide specific dimensions to use when creating sheet data blocks including title, angle of projection, dimensioning and tolerancing, revision history, revision status of sheets, margin drawing number, application, and microfilm identification blocks. The standards also specify the dimensions of microfilm alignment arrows. The ASME standard Y14.2M, *Line Conventions and Lettering*, specifies exact line and lettering format for all items on a drawing, as detailed in Chapter 2. The distance from objects, such as the outlines of blocks, to headings and data within blocks, is no less than half the height of the lettering. The ASME format and dimensions may require customizing to achieve specific company or project requirements.

#### ***Title Blocks***

Figure 1a shows title block dimensions recommended by ASME Y14.1 for A-, B-, C-, and G-size sheets. Figure 1b shows title block dimensions recommended by ASME Y14.1 for D-, E-, F-, H-, J-, and K-size sheets. Figure 2a shows title block dimensions recommended by ASME Y14.1M for A2-, A3-, and A4-size sheets. Figure 2b shows title block dimensions recommended by ASME Y14.1M for A0- and A1-size sheets.



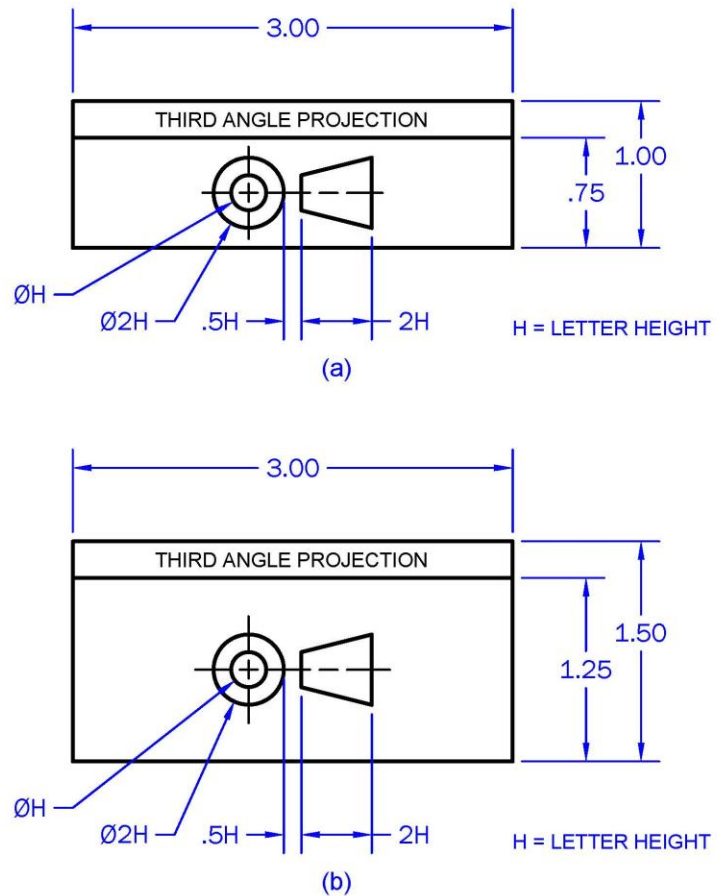
**FIGURE 1.** (a) Title block dimensions recommended by ASME Y14.1 for A-, B-, C-, and G-size sheets. (b) Title block dimensions recommended by ASME Y14.1 for D-, E-, F-, H-, J-, and K-size sheets.



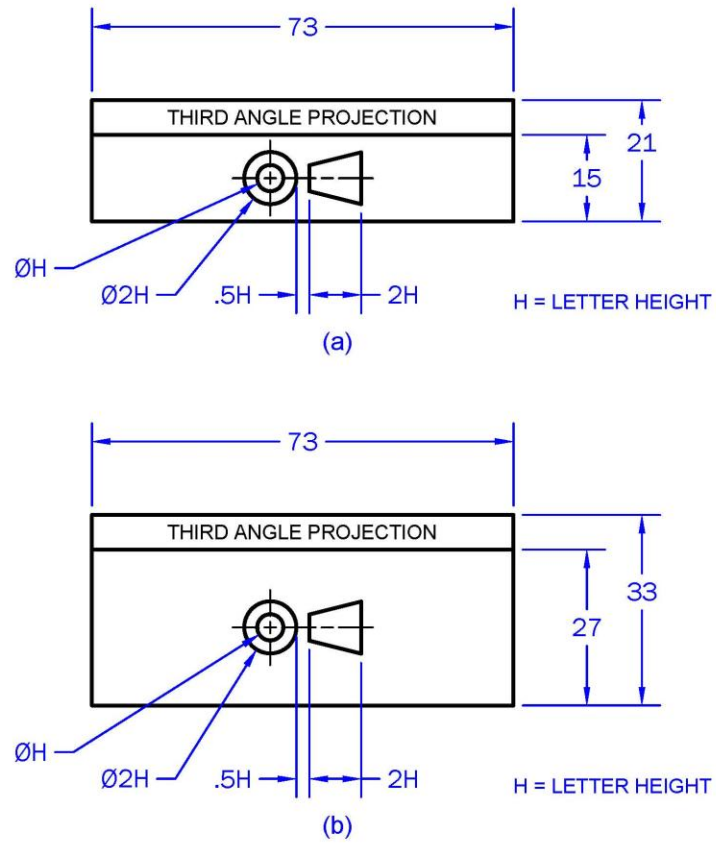
**FIGURE 2.** (a) Title block dimensions recommended by ASME Y14.1M for A2-, A3-, and A4-size sheets. (b) Title block dimensions recommended by ASME Y14.1M for A0- and A1-size sheets.

### ***Angle of Projection Blocks***

Figure 3a shows angle of projection block dimensions recommended by ASME Y14.1 for A-, B-, C-, and G-size sheets. Figure 3b shows angle of projection block dimensions recommended by ASME Y14.1 for D-, E-, F-, H-, J-, and K-size sheets. Figure 4a shows angle of projection block dimensions recommended by ASME Y14.1M for A2-, A3-, and A4-size sheets. Figure 4b shows angle of projection block dimensions recommended by ASME Y14.1M for A0- and A1-size sheets. ASME Y14.3 defines the projection symbol dimensions based on a .12 in. (3 mm) letter height. You must enlarge the projection symbol to display as shown in Figures 3 and 4.



**FIGURE 3.** (a) Angle of projection block dimensions recommended by ASME Y14.1 for A-, B-, C-, and G-size sheets. (b) Angle of projection block dimensions recommended by ASME Y14.1 for D-, E-, F-, H-, J-, and K-size sheets.

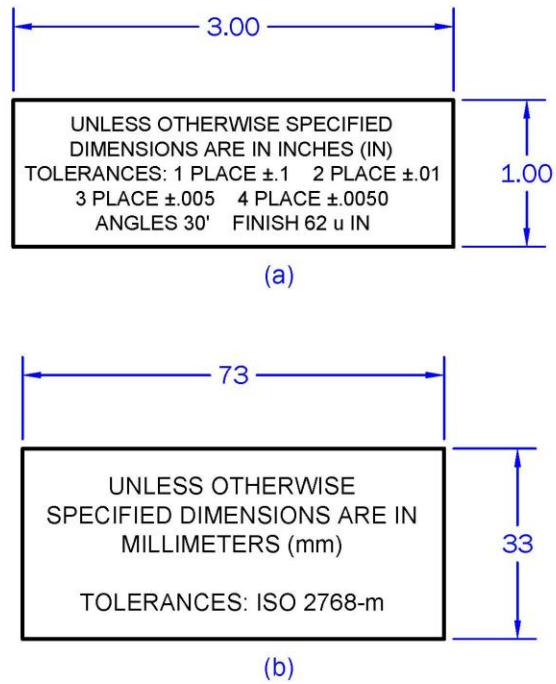


**FIGURE 4.** (a) Angle of projection block dimensions recommended by ASME Y14.1M for A2-, A3-, and A4-size sheets. (b) Angle of projection block dimensions recommended by ASME Y14.1M for A0- and A1-size sheets.

***Dimensioning and Tolerancing Blocks***

Figure 5a shows dimensioning and tolerancing block dimensions recommended by ASME Y14.1 for all inch-size sheets. Figure 5b shows dimensioning and tolerancing block dimensions recommended by ASME Y14.1M for all metric-size sheets.

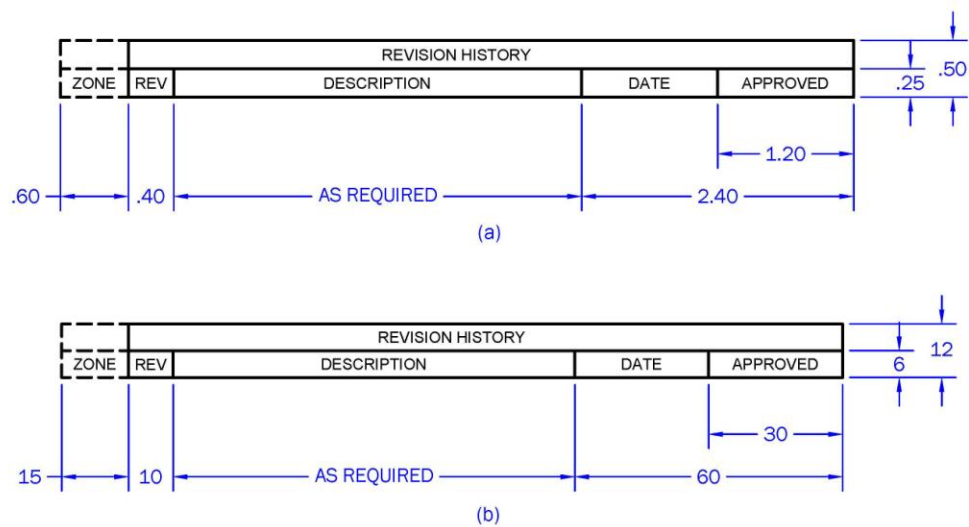




**FIGURE 5.** (a) Dimensioning and tolerancing block dimensions recommended by ASME Y14.1 for all inch-size sheets. (b) Dimensioning and tolerancing block dimensions recommended by ASME Y14.1M for all metric-size sheets.

**Revision History Blocks**

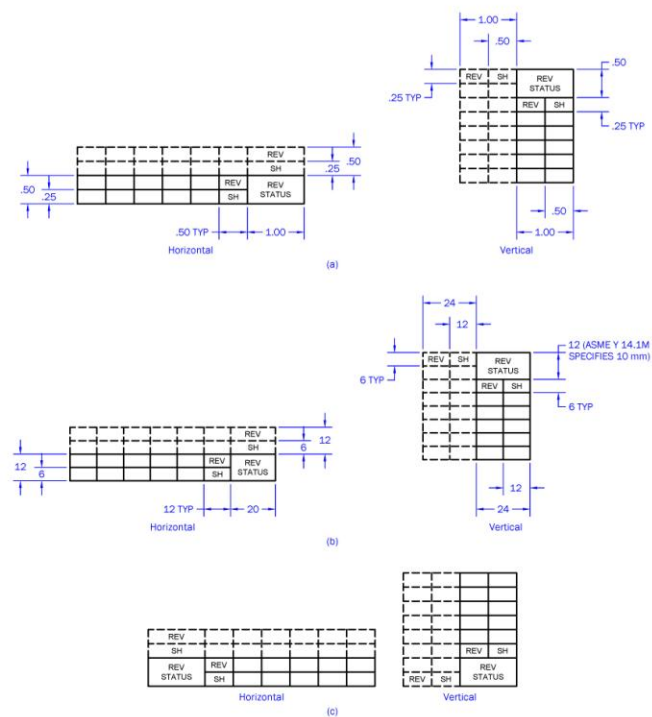
Figure 6a shows revision history block dimensions recommended by ASME Y14.1 for all inch-size sheets. Figure 6b shows revision history block dimensions recommended by ASME Y14.1M for all metric-size sheets.



**FIGURE 6.** (a) Revision history block dimensions recommended by ASME Y14.1 for all inch-size sheets. (b) Revision history block dimensions recommended by ASME Y14.1M for all metric-size sheets.

**Revision Status of Sheets Blocks**

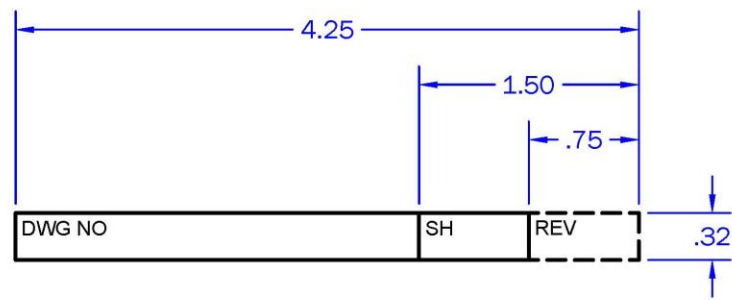
Figure 7a shows revision status of sheets block dimensions recommended by ASME Y14.1 for all inch-size sheets. Figure 7b shows revision status of sheets block dimensions recommended by ASME Y14.1M for all metric-size sheets. Figure 7c shows alternate options for displaying inch or metric unit revision status of sheets blocks.



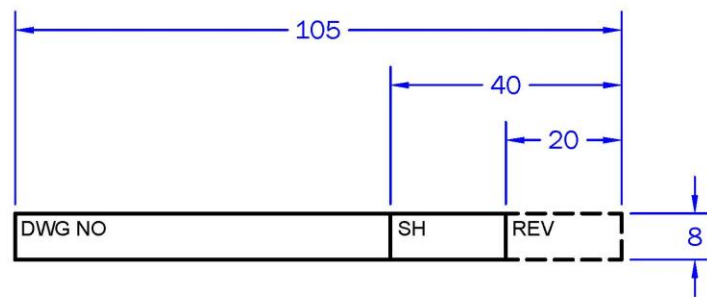
**FIGURE 7.** (a) Revision status of sheets block dimensions recommended by ASME Y14.1 for all inch-size sheets. (b) Revision status of sheets block dimensions recommended by ASME Y14.1M for all metric-size sheets. (c) Options for positioning revision status of sheets blocks.

### ***Margin Drawing Number Blocks***

Figure 8a shows margin drawing number block dimensions recommended by ASME Y14.1 for all inch-size sheets. Figure 8b shows margin drawing number block dimensions recommended by ASME Y14.1M for all metric-size sheets.



(a)

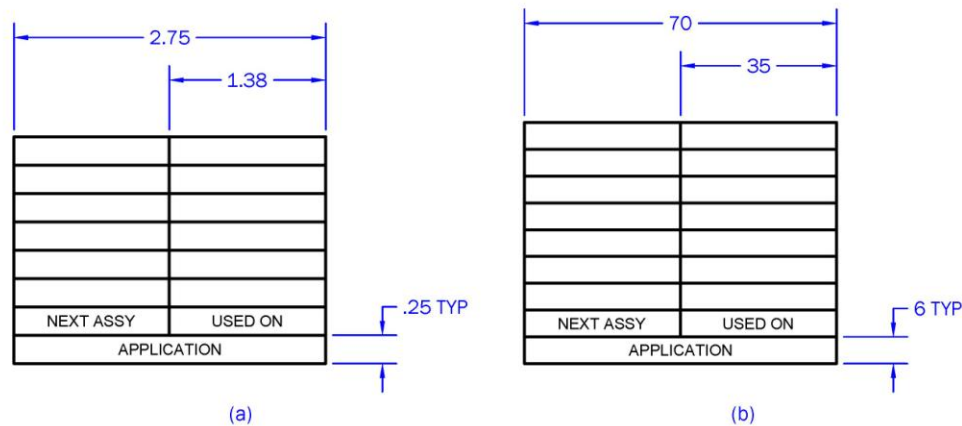


(b)

**FIGURE 8.** (a) Margin drawing number block dimensions recommended by ASME Y14.1 for all inch-size sheets. (b) Margin drawing number block dimensions recommended by ASME Y14.1M for all metric-size sheets.

***Application Blocks***

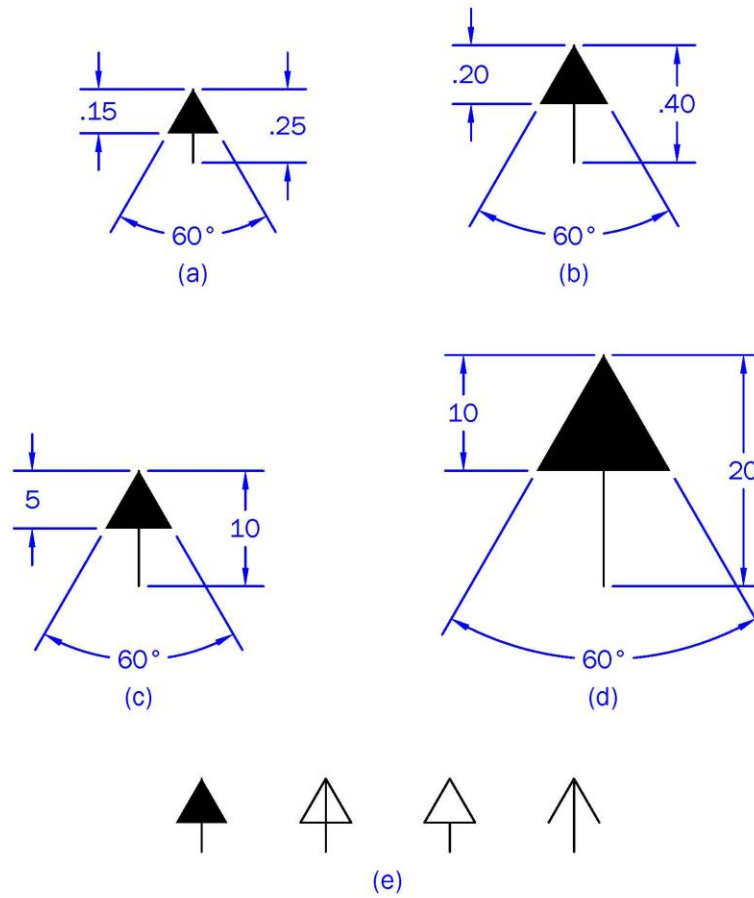
Figure 9a shows application block dimensions recommended by ASME Y14.1 for all inch-size sheets. Figure 9b shows application block dimensions recommended by ASME Y14.1M for all metric-size sheets.



**FIGURE 9.** (a) Application block dimensions recommended by ASME Y14.1 for all inch-size sheets. (b) Application block dimensions recommended by ASME Y14.1M for all metric-size sheets.

***Microfilm Alignment Arrows***

Figure 10a shows microfilm alignment arrow dimensions recommended by ASME Y14.1 for A-, B-, C-, and G-size sheets. Figure 10b shows microfilm alignment arrow dimensions for D-, E-, F-, H-, and J-size sheets. Figure 10c shows microfilm alignment arrow dimensions recommended by ASME Y14.1M for A2-, A3-, and A4-size sheets. Figure 10d shows microfilm alignment arrow dimensions for A0- and A1-size sheets. Figure 10e shows options for microfilm alignment arrowheads.

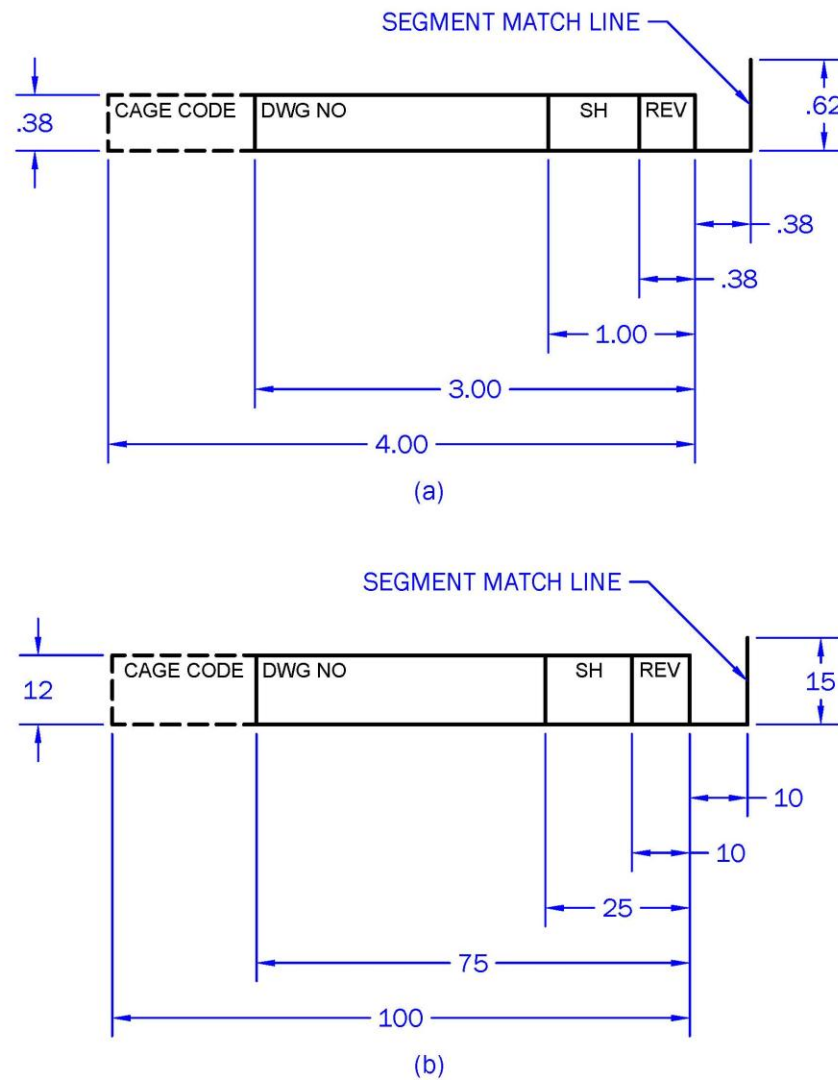


**FIGURE 10.** (a) Microfilm alignment arrow dimensions recommended by ASME Y14.1 for A-, B-, C-, and G-size sheets. (b) Microfilm alignment arrow dimensions for D-, E-, F-, H-, and J-size sheets. (c) Microfilm alignment

arrow dimensions recommended by ASME Y14.1M for A2-, A3-, and A4-size sheets. (d) Microfilm alignment arrow dimensions for A0- and A1-size sheets. (e) Options for microfilm alignment arrowheads.

### ***Microfilm Identification Blocks***

Microfilm segment match lines and identification blocks are required to help identify microfilmed roll and elongated size drawings. Figure 11 shows microfilm identification block dimensions recommended by ASME Y14.1 for inch roll size sheets. Figure 14 shows microfilm identification block dimensions recommended by ASME Y14.1M for elongated metric size sheets.



**FIGURE 11.** (a) Microfilm identification block dimensions recommended by ASME Y14.1 for inch roll size sheets. (b) Microfilm identification block dimensions recommended by ASME Y14.1M for metric elongated size sheets.