ASME Y14.1-2020

(Revision and Consolidation of ASME Y14.1-2012 and ASME Y14.1M-2012)

Drawing Sheet Size and Format

Engineering Product Definition and Related Documentation Practices

AN AMERICAN NATIONAL STANDARD

The American Society of Mechanical Engineers

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AN AMERICAN NATIONAL STANDARD

The American Society of Mechanical Engineers

Two Park Avenue • New York, NY • 10016 USA

Date of Issuance: December 18, 2020

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CONTENTS

Foreword v

Committee Roster vi

Correspondence With the Y14 Committee vii

1 General 1
1.1 Scope 1
1.2 Purpose 1
1.3 ASME Y14 Series Conventions 1
2 References 2
3 Terms and Definitions 3
4 Drawing Sheet Sizes 4
4.1 Margins 4
4.2 Drawing Sheet Sizes 5
4.3 Computer-Generated Drawings 5
5 Formats 5
5.1 Drawing Sheet One 5
5.2 Continuation Sheets 5
5.3 Blocks 5
5.4 Lettering 5
5.5 Zoning 5
5.6 Lines 5
5.7 Segment Alignment (Optional) 6
6 Title Blocks 6
6.1 Location 6
6.2 Contents 6
6.3 Continuation Sheet Title Block 7
7 Revision History Block 7
7.1 Location 7
7.2 Contents 7
8 Revision Status of Sheets Block 7
9 Associated Lists 7
10 Additional Data Blocks (Optional) 7
10.1 Angle of Projection Block 7
10.2 Dimensioning and Tolerancing Block 7
10.3 Application Block 7
11 Additional Drawing Number Blocks (Optional) 8
11.1 Margin Drawing Number Block 8
11.2 Elongated Drawing Sheet Size Segment Identification Blocks 8
12 Data Markings 8

Figures

4-1 Smaller Metric Drawing Sheet Size Formats, A0 Through A4 Sizes 10
4-2 Elongated Metric Drawing Sheet Size Formats, A1.0, A2.1, A2.0, A3.2, A3.1, and A3.0 Sizes . . . 11
4-3 Smaller Decimal-Inch Drawing Sheet Size Formats, A Through F Sizes 13
4-4 Elongated Decimal-Inch Drawing Sheet Size Format, G Size 14
4-5 Elongated Decimal-Inch Drawing Sheet Size Formats, H, J, and K Sizes 15
4-6 Metric System Size Overview 16
5-1 Title Block for Smaller Drawing Sheet Size Formats 17
5-2 Title Block for Elongated Drawing Sheet Size Formats 18
5-3 Continuation Sheet Title Block for Smaller Drawing Sheet Size Formats 19
5-4 Continuation Sheet Title Block for Elongated Drawing Sheet Size Formats 20
5-5 Segment Alignment Arrowheads 21
5-6 Segment Identification Block 22
7-1 Revision History Block 23
8-1 Revision Status of Sheets Block 24
10-1 Dimensioning and Tolerancing and Angle of Projection Blocks 25
10-2 Application Block 26
11-1 Margin Drawing Number Block 27
12-1 Example of Location of Data Markings 28

Tables

4-1 Smaller Metric Drawing Sheet Size Formats 9
4-2 Elongated Metric Drawing Sheet Size Formats 9
4-3 Smaller Decimal-Inch Drawing Sheet Size Formats 12
4-4 Elongated Decimal-Inch Drawing Sheet Size Formats 12

FOREWORD

This Standard establishes a series of recommended drawing sizes and formats for engineering drawings. It provides a basis for uniformity in engineering drawing size and format that industry and government can use. This Standard is not intended to prevent individual organizations from designing specific formats that meet their individual needs, but rather to provide common engineering delineation standards to aid the interchange of drawings between users in industry, government, and other areas.

This Standard is a revision of ASME Y14.1-2012, Drawing Sheet Size and Format and ASME Y14.1M-2012, Metric Drawing Sheet Size and Format. This revision combines both the metric and decimal-inch standards. Work on the revision of this Standard was begun in October 2016 by the members of ASME Y14 Subcommittee 1.

The following is a summary of the significant changes that were incorporated into this revision:

(a) Combined ASME Y14.1-2012 and ASME Y14.1M-2012 into a single standard

(b) Added the term "segment" to use in place of microfilm, allowing for the application of digital data

(c) Reinstated the practice of indicating the initial release date in the area of the title block

(d) Expanded on location of table headings for the revision status of sheets block

(e) Expanded the practice of maintaining all sheets at the same revision level

(f) Added "PART OR IDENTIFYING NUMBER" to the application block to align with ASME Y14.34

(g) Added a paragraph and figure addressing data markings on drawing sheets

(h) Expanded maximum horizontal width for H- and K-size formats to align with largest segment width indicated in Figure 4-5

Where this Standard is specified as a requirement in a document, this Standard's defined requirements are assumed to be consistent with the needs of the user. Therefore, each user will provide appropriate interpretations, as the need arises, consistent with the environment in which this Standard is applied.

The successful revision of this Standard is attributed to the subcommittee members and their respective companies, and the departments and agencies of the U.S. Government.

This revision was approved as an American National Standard on August 14, 2020.

ASME Y14 COMMITTEE
Engineering Product Definition and Related Documentation Practices

(The following is the roster of the Committee at the time of approval of this Standard.)

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CORRESPONDENCE WITH THE Y14 COMMITTEE

General. ASME Standards are developed and maintained with the intent to represent the consensus of concerned interests. As such, users of this Standard may interact with the Committee by requesting interpretations, proposing revisions or a case, and attending Committee meetings. Correspondence should be addressed to:

Secretary, Y14 Standards Committee
The American Society of Mechanical Engineers
Two Park Avenue
New York, NY 10016-5990
http://go.asme.org/Inquiry

Proposing Revisions. Revisions are made periodically to the Standard to incorporate changes that appear necessary or desirable, as demonstrated by the experience gained from the application of the Standard. Approved revisions will be published periodically.

The Committee welcomes proposals for revisions to this Standard. Such proposals should be as specific as possible, citing the paragraph number(s), the proposed wording, and a detailed description of the reasons for the proposal, including any pertinent documentation.

Proposing a Case. Cases may be issued to provide alternative rules when justified, to permit early implementation of an approved revision when the need is urgent, or to provide rules not covered by existing provisions. Cases are effective immediately upon ASME approval and shall be posted on the ASME Committee web page.

Requests for Cases shall provide a Statement of Need and Background Information. The request should identify the Standard and the paragraph, figure, or table number(s), and be written as a Question and Reply in the same format as existing Cases. Requests for Cases should also indicate the applicable edition(s) of the Standard to which the proposed Case applies.

Attending Committee Meetings. The Y14 Standards Committee regularly holds meetings and/or telephone conferences that are open to the public. Persons wishing to attend any meeting and/or telephone conference should contact the Secretary of the Y14 Standards Committee. Future Committee meeting dates and locations can be found on the Committee Page at http://go.asme.org/Y14committee.

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DRAWING SHEET SIZE AND FORMAT

1 GENERAL

1.1 Scope

This Standard defines sheet sizes and formats for engineering drawings. Both metric and decimal-inch sheet sizes and formats are included. For engineering product definition preparation and practices, see ASME Y14.100.

1.2 Purpose

Standardization of drawing sheet sizes and uniform location of format features on drawing forms provides definite advantages in readability, handling, filing, and reproduction of engineering drawings. When using drawing sheets made by other organizations, an advantage is gained when like items of information are in the same location on all drawing sheets, and when uniformity of form and language is applied in making information entries. Revision information and dates are of particular importance to users of drawings and should be located and expressed uniformly on all engineering drawings.

The widespread use and exchange of reduced-size copies of drawing sheets, both within and between organizations, emphasizes the importance of standardizing drawing sheet size and format.

1.3 ASME Y14 Series Conventions

The conventions in paras. 1.3.1 through 1.3.9 are used in this and other ASME Y14 standards.

1.3.1 Mandatory, Recommended, Guidance, and Optional Words

(a) The word "shall" establishes a requirement.

(b) The word "will" establishes a declaration of purpose on the part of the design activity.

(c) The word "should" establishes a recommended practice.

(d) The word "may" establishes an allowed practice.

(e) The words "typical," "example," "for reference," and the Latin abbreviation "e.g." indicate suggestions given for guidance only.

(f) The word "or" used in conjunction with a requirement or a recommended practice indicates that there are two or more options for complying with the stated requirement or practice.

(g) The phrase "unless otherwise specified" or "UOS" shall be used to indicate a default requirement. The phrase is used when the default is a generally applied requirement and an exception may be provided by another document or requirement.

1.3.2 Cross-Reference of Standards. Cross-reference of standards in text with or without a date following the standard designator shall be interpreted as follows:

(a) Reference to other ASME Y14 standards in the text without a date following the standard designator indicates that the issue of the standard identified in the References section (section 2) shall be used to meet the requirement.

(b) Reference to other ASME Y14 standards in the text with a date following the standard designator indicates that only that issue of the standard shall be used to meet the requirement.

1.3.3 Invocation of Referenced Standards. The following examples define the invocation of a standard when specified in the References section (section 2) and referenced in the text of this Standard:

(a) When a referenced standard is cited in the text with no limitations to a specific subject or paragraph(s) of the standard, the entire standard is invoked. For example, "dimensioning and tolerancing shall be in accordance with ASME Y14.5" is invoking the complete standard because the subject of the standard is dimensioning and tolerancing and no specific subject or paragraph(s) within the standard are invoked.

(b) When a referenced standard is cited in the text with limitations to a specific subject or paragraph(s) of the standard, only the paragraph(s) on that subject is invoked. For example, "assign part or identifying numbers in accordance with ASME Y14.100" is invoking only the paragraph(s) on part or identifying numbers because the subject of the standard is engineering drawing practices and part or identifying numbers are a specific subject within the standard.

(c) When a referenced standard is cited in the text without an invoking statement, such as "in accordance with," the standard is invoked for guidance only. For example, "for gaging principles, see ASME Y14.43" is only for guidance and no portion of the standard is invoked.

1.3.4 Parentheses Following a Definition. When a definition is followed by a standard referenced in parentheses, the standard referenced in parentheses is the source for the definition.

1.3.5 Notes. Notes depicted in this Standard in ALL UPPERCASE letters are intended to reflect actual drawing entries. Notes depicted in initial uppercase or lowercase letters are to be considered supporting data to the contents of this Standard and are not intended for literal entry on drawings. A statement requiring the addition of a note with the qualifier "such as" is a requirement to add a note, and the content of the note is allowed to vary to suit the application.

1.3.6 Acronyms and Abbreviations. Acronyms and abbreviations are spelled out the first time they are used in this Standard, followed by the acronym or abbreviation in parentheses. The acronym is used thereafter throughout the text.

1.3.7 Units. The International System of Units (SI), shown in millimeters, and U.S. Customary units, shown in inches, are both featured in this Standard as indicated in each figure, table, and paragraph.

1.3.8 Figures. The figures in this Standard are intended only as illustrations to aid the user in understanding the practices described in the text. In some cases, figures show a level of detail as needed for emphasis. In other cases, figures are intentionally incomplete so as to illustrate a concept or facet thereof. The absence of figure(s) has no bearing on the applicability of the stated requirements or practice. To comply with the requirements of this Standard, actual data sets shall meet the content requirements set forth in the text. To assist the user of this Standard, a list of the paragraphs that refer to an illustration appears in the lower-right corner of each figure. This list may not be all inclusive. The absence of a list is not a reason to assume inapplicability. Some figures are illustrations of models in a three-dimensional environment. The absence of dimensioning and tolerancing annotations in a view may indicate that the product definition is defined in 3D. Dimensions that locate or orient and are not shown are considered basic and shall be queried to determine the intended requirement. When the letter "h" is used in figures for letter heights or for symbol proportions, select the applicable letter height in accordance with ASME Y14.2. Multiview drawings contained within figures are third-angle projection.

1.3.9 Precedence of Standards. The following are ASME Y14 standards that are basic engineering drawing standards:

ASME Y14.1, Drawing Sheet Size and Format
ASME Y14.2, Line Conventions and Lettering
ASME Y14.3, Orthographic and Pictorial Views
ASME Y14.5, Dimensioning and Tolerancing
ASME Y14.24, Types and Applications of Engineering Drawings
ASME Y14.34, Associated Lists
ASME Y14.35, Revision of Engineering Drawings and Associated Documents
ASME Y14.36, Surface Texture Symbols
ASME Y14.38, Abbreviations and Acronyms for Use in Product Definition and Related Documents
ASME Y14.41, Digital Product Definition Data Practices
ASME Y14.100, Engineering Drawing Practices

All other ASME Y14 standards are considered specialty types of standards and contain additional requirements or make exceptions to the basic standards as required to support a process or type of drawing.

2 REFERENCES

The following revisions of American National Standards form a part of this Standard to the extent specified herein. A more recent revision may be used provided there is no conflict with the text of this Standard. In the event of a conflict between the text of this Standard and the references cited herein, the text of this Standard shall take precedence.

ASME Y14.2-2014 (R2020), Line Conventions and Lettering
ASME Y14.3-2012 (R2018), Orthographic and Pictorial Views
ASME Y14.5-2018, Dimensioning and Tolerancing
ASME Y14.24-2012, Types and Applications of Engineering Drawings
ASME Y14.34-2013 (R2018), Associated Lists
ASME Y14.35-2014 (R2019), Revision of Engineering Drawings and Associated Documents
ASME Y14.38-2019, Abbreviations and Acronyms for Use in Product Definition and Related Documents
ASME Y14.41-2019, Digital Product Definition Data Practices
ASME Y14.100-2017, Engineering Drawing Practices
Publisher: The American Society of Mechanical Engineers (ASME), Two Park Avenue, New York, NY 10016-5990 (www.asme.org)

DoD Cataloging Handbook H4/H8, Commercial and Government Entity (CAGE) Code Cataloging Handbook
Publisher: Defense Logistics Agency (DLA), 8725 John J. Kingman Road, Stop 6233, Fort Belvoir, VA 22060 (www.dla.mil)

MIL-STD-31000B, Department of Defense Standard Practice Technical Data Packages
Publisher: Commander, US Army ARDEC, ATTN: RDAR-EIQ-SA, Picatinny Arsenal, NJ 07806-5000

3 TERMS AND DEFINITIONS

3.1 Assembly

assembly: a number of parts or combination thereof that are joined together to perform a specific function and subject to disassembly without degradation of any of the parts (e.g., power shovel front, fan assembly, audio-frequency amplifier) (ASME Y14.100).

NOTE: The distinction between an assembly and a subassembly is determined by individual application. An assembly in one instance may be a subassembly in another instance where it forms a portion of a higher assembly.

3.2 Associated List

associated list: a tabulation of engineering information pertaining to an item depicted on an engineering drawing or by a set of drawings (e.g., application list, data list, index list, parts list, wire list) (ASME Y14.34).

3.3 Commercial and Government Entity (CAGE) Code

Commercial and Government Entity (CAGE) Code: a five-character code that provides a unique activity identifier that is used by the government for activity identification. This method of activity identification has also been widely adopted by industry. CAGE Codes are listed in Cataloging Handbook H4/H8 (ASME Y14.100).

3.4 Contract

contract: a mutually binding legal relationship obligating the seller to furnish the supplies or services, including construction, and the buyer to pay for them. It includes all types of commitments that obligate the procuring activity to an expenditure of appropriated funds and that, except as otherwise authorized, are in writing. In addition to bilateral instruments, contracts include, but are not limited to, awards and notices of awards; job orders or task letters issued under basic ordering agreements; letter contracts; orders, such as purchase orders, under which the contract becomes effective by written acceptance or performance; and bilateral contract modifications (ASME Y14.100).

3.5 Contractor

contractor: an individual, partnership, company, corporation, association, or other service having a contract for the design, development, manufacture, maintenance, modification, or supply of items under the terms of a contract (ASME Y14.100).

3.6 Design Activity

design activity: an organization that has, or has had, responsibility for the design of an item (ASME Y14.100).

3.6.1 Current Design Activity

current design activity: the design activity currently responsible for the design of an item. This may be the original design activity or a design activity to which the design responsibility has been transferred (ASME Y14.100).

3.6.2 Original Design Activity

original design activity: the design activity originally responsible for the design and identification of an item whose drawing number and activity identification is shown in the title block of the drawings and associated documents (ASME Y14.100).

3.7 Design Activity Identification (DAI)

design activity identification: The application of a unique identifier that distinguishes an activity or organization from another activity or organization. Examples of activity identification include activity name, activity name and address, or CAGE Code (ASME Y14.100).

3.8 Digital Data

digital data: data stored on a computer system that employs a display on which the user and computer interact to create or alter entities for the production of layouts, drawings, numerical control tapes, or other engineering data (ASME Y14.100).

3.9 Document

document: a term applicable to the specifications; drawings; lists; standards; pamphlets; reports; and printed, typewritten, or otherwise created information, relating to the design, procurement, manufacture, testing, or acceptance inspection of items or services (ASME Y14.100).

3.10 Drawing

drawing: an engineering document or dataset that discloses directly or by reference, by means of graphic or textual presentations, or combinations of both, the physical or functional requirements of an item (ASME Y14.100).

3.11 Drawing Format

drawing format: the arrangement and organization of information within a drawing. This includes such features as the size and arrangement of blocks, notes, lists, revision information, and use of optional or supplemental blocks (ASME Y14.100).

3.12 Drawing Graphic Sheet

drawing graphic sheet: the two-dimensional geometric elements and annotations that define an item and the product definition elements of the sheet format in accordance with ASME Y14.1 (ASME Y14.100).

3.13 Engineering Data

engineering data: engineering documents such as drawings, associated lists, accompanying documents, specifications, standards, or other information prepared or used by a design activity and relating to the design, manufacture, procurement, testing, or inspection of items (ASME Y14.100).

3.14 Field of Drawing

field of drawing: the area of a drawing that contains the product definition of an item (ASME Y14.100).

3.15 Item

item: a nonspecific term used to denote any unit or product including materials, parts, assemblies, equipment, accessories, and computer software (ASME Y14.100).

3.16 Original

original: the current design activity's reproducible drawing or dataset on which is kept the revision record recognized as official (ASME Y14.100).

3.17 Part

part: one item, or two or more items joined together, that is not normally subject to disassembly without destruction or impairment of designed use, e.g., transistor, composition resistor, screw, transformer, and gear (ASME Y14.100).

3.18 Procuring Activity

procuring activity: the customer (ASME Y14.100).

3.19 Referenced Documents

referenced documents: design activity standards, drawings, specifications, or other documents referenced on drawings or lists (ASME Y14.100).

3.20 Segment

segment: portions of an elongated size drawing sheet that are used for specific processing (e.g., microfilming or other form of reproduction).

3.21 Standard

standard: a document that establishes technical criteria, methods, processes, and practices (ASME Y14.100).

3.21.1 Company Standard

company standard: a company document that establishes engineering and technical limitations and applications for items, materials, processes, methods, designs, and engineering practices unique to that company (MIL-STD-31000).

NOTE: Company standards are not considered to be nongovernment standards.

3.22 Standardization Document

standardization document: a document developed for the purpose of standardizing items, materials, processes, or procedures (ASME Y14.100).

3.23 Acronyms

Acronyms	Terms
ASME	The American Society of Mechanical Engineers
CAGE	Commercial and government entity
DAI	Design activity identification
UOS	Unless otherwise specified

3.24 Abbreviations

Abbreviations	Terms
DIM	Dimensions
DWG	Drawing
NO	Number
REV	Revision
REQD	Required
SH	Sheet
TOL	Tolerances

4 DRAWING SHEET SIZES

Drawing sheet size designations for metric are listed in Tables 4-1 and 4-2 and graphically shown in Figures 4-1 and 4-2. Designations for decimal inch are listed in Tables 4-3 and 4-4 and graphically shown in Figures 4-3 through 4-5. The sizes shown are the overall sizes of the sheets excluding protective or binding margins. See paras. 4.1.2 and 4.1.3. Rounded corners may be used on all drawing sheet sizes. Rounded corners may not eclipse any required format depiction.

4.1 Margins

4.1.1 Format Margins. The format margin sizes shown in applicable figures are the minimum required.

NOTE: Additional design activity nonproduct definition data may be added within the drawing format margins.

4.1.2 Protective Margins. For elongated sheet size drawings, additional lengths of vertical and horizontal margins are permissible. See Figures 4-2, 4-4, and 4-5.

4.1.3 Binding Margins. The margins of drawing sheet sizes (format margins) may be increased when the document is to be bound in a book form. Both margins may be increased when the document is to be printed back to back. However, except for the binding margins, all other format, content, and actual sheet size requirements shall conform to this Standard.

4.2 Drawing Sheet Sizes

4.2.1 Metric Drawing Sheet Sizes

(a) Elongated Sheet Sizes. Elongated sheet sizes are formed by combination of the dimensions of the width of an A-size sheet and the length of another A-size sheet. Elongated sheet sizes are designated in the format A*X.Y*, where *X* is the width and *Y* is the length. For example, size A1.0 equals size A1 width and size A0 length. Elongated A4 sheet sizes do not exist because they are equivalent to A3 sizes. The structure of the sheet size system is shown in Figure 4-6.

(b) Segment Compatibility. The minimum and maximum lengths shown for elongated drawing sizes are compatible with segment frame size requirements. See Figure 4-2.

4.2.2 Decimal-Inch Drawing Sheet Sizes

(a) Drawing Sheet Sizes. Drawing sheet sizes indicated in Tables 4-3 and 4-4 are multiples of the A size except for F, H, and K sizes.

(b) Elongated Drawing Sheet Sizes. Elongated drawing sheet sizes are drawing sheets that, due to their lengths, may be rolled when the drawing is printed on a nondigital medium, e.g., paper or velum. The lengths shown have been selected in recognition of segment frame size requirements. Segments of length are based on multiple zone increments.

(c) G-Size Drawing Sheets. The lengths and increment size of the G-size format will permit full size copies to be bound in 8.5 in. × 11 in. books or filed in loose-leaf notebooks. See Table 4-4 and Figure 4-4.

(d) H-, J-, and K-Size Drawing Sheets. Segments of lengths are based on multiples of 11 in.

4.3 Computer-Generated Drawings

When copies of computer-generated drawings are produced, sheet sizes may be increased to compensate for output device requirements, providing the copies can be trimmed to the sheet sizes specified in this Standard. However, the drawing format and content shall conform to the requirements of this Standard. The continuous lines and widths of lines shown in this Standard to form the various features (i.e., the required blocks, columns, and margins) do not have to be used. However, the format sizes, the relative positions of the data headings, and the data contents shall conform to the requirements of this Standard. The data headings and contents created by data processing systems shall be legible when reproduced.

5 FORMATS

5.1 Drawing Sheet One

Drawing sheet one formats shall include the title block from Figure 5-1 or 5-2 and may be used for all sheets of a multiple-sheet drawing. Drawing sheet one formats are defined in Figures 4-1 through 4-5.

5.2 Continuation Sheets

Continuation sheet formats for second and subsequent sheets of a multiple-sheet drawing shall include the title block from Figure 5-3 or 5-4. See para. 6.3 for minimum title block information requirements. The title blocks shown in Figures 5-1 and 5-2 may be used. Drawing continuation sheet formats are defined in Figures 4-1 through 4-5. All sheets of a multiple-sheet drawing should be the same sheet size.

5.3 Blocks

The sizes of blocks specified herein are minimum size and may be increased to accept size and lettering on drawing formats in accordance with ASME Y14.2. For block content, see para. 6.2. Additional blocks may be added.

5.4 Lettering

The size and style of lettering printed on drawing formats shall be in accordance with ASME Y14.2.

5.5 Zoning

5.5.1 Zone Identification. Formats, except decimal-inch sizes A and B and metric size A4, shall include zones for reference purposes. Zones shall be indicated by alphabetical and numerical entries in format margins and by subdivisions or multiples thereof as indicated in Figures 4-1 through 4-5. Decimal-inch sizes A and B and metric size A4 may also be zoned.

5.5.2 Zone Methods. There are two methods of numerical zoning on multiple-sheet drawings: repetitive and continuous. The repetitive and continuous methods shall not be mixed on the same drawing.

(a) Repetitive Method. Each drawing sheet shall begin with zone number one. Zone references throughout all drawing sheets shall include the sheet number.

(b) Continuous Method. Zones shall start with zone number one on sheet one, continuing each new sheet with the next higher zone number than the last number used on the previous sheet.

5.6 Lines

Line widths shall be in accordance with ASME Y14.2. When contrasting line widths are used, the following guidelines may be used:

(a) Thick Lines
(1) borderlines
(2) outline of principal blocks
(3) main divisions of blocks
(4) segment match lines
(b) Thin Lines
(1) divisions of parts lists and revision history blocks
(2) minor subdivisions of the title block and supplementary blocks
(3) zone markers

5.7 Segment Alignment (Optional)

5.7.1 Segment Alignment Arrowheads. Segment alignment arrowheads facilitate the alignment of drawings for segmenting. When used, segment alignment arrows shall be placed in the format margins and centered within the segment. See Figures 4-1 through 4-5 for location. See Figure 5-5 for size and style.

5.7.2 Segment Match Lines. Segment match lines facilitate matching segments after reproducing a drawing sheet. Segment match lines are shown on elongated-size drawing sheets that have multiple segments. When used, segment match lines shall be placed inside the field of drawing adjoining the format margin. See Figures 4-2, 4-4, 4-5, and 5-6.

6 TITLE BLOCKS

6.1 Location

The title block shall be located in the lower-right corner of the drawing sheet one format as shown in Figures 4-1 through 4-5.

6.2 Contents

Certain information common to all drawings is shown in the title block. See Figures 5-1 through 5-4 for illustrations of the block letter references given below.

Block A — Name, or name and address, of the company or original design activity whose drawing number appears in the drawing number block. On continuation sheets, this block is required in the absence of a Design Activity Identifier (DAI).

Block B — Drawing title.

Block C — Drawing number.

Block D — Sheet revision block. This block may be omitted when a revision history block is included on the sheet.

Block E — Sub-blocks with information relating to the preparation and approval of the drawing, including approving function, release date, title, names, dates or approval indicators, and reference to ASME Y14.100. The sub-block titles, such as "DRAFTER," "CHECKER," and "ENGINEER," shall be identified appropriately. When applicable, the contract number shall be included within this block.

Block F — Approval by the design activity when different from the source preparing the drawing. This may be necessary when a contractor–subcontractor condition exists; otherwise this block may be absorbed into block E, or it may be used for other purposes.

Block G — Approval by an activity other than those described for blocks E and F. When not required this block may be absorbed into block E, or it may be used for other purposes.

Block H — Predominant scale of the drawing sheet. "NONE" shall be entered when no scale is used. Each sheet may have a different predominant scale.

Block I — Design activity identification (DAI). The DAI is specified when required for identification of the original design activity whose drawing number is used. For the commercial sector where there is no requirement for the DAI, this block may be left blank or eliminated.

Block J — Drawing size designation. See Tables 4-1 through 4-4.

Block K — Actual or estimated weight of the item, when required. This block is shown on sheet one only.

Block L — Sheet number. The appropriate sheet number beginning with the numeral 1. The drawing shall be prepared initially using consecutive whole numbers. When all sheets are maintained at the same revision level, sheet one shall indicate the total number of sheets. See para. 8. When all sheets are not maintained at the same revision level, the revision status of sheets block shall list the total number of sheets, and then the total number of sheets is not required in the sheet number block.

6.3 Continuation Sheet Title Block

As a minimum, the continuation sheet title block shall contain the following: Blocks C, H, I, J, and L. See Figures 5-3 and 5-4.

7 REVISION HISTORY BLOCK

7.1 Location

The revision history block shall be located in the upper-right corner of the drawing sheet. See Figures 4-1 through 4-5 for placement of the revision history block. Space shall be reserved to extend the revision history block downward as required. When additional space for the revision history block is needed, the revision history block may be continued to the left of the original revision history block. Revision history blocks may be included on continuation sheets.

7.2 Contents

The revision history block provides space for a revision symbol, a description or identification of the change authorization document, a date, and approvals. The headings shall be presented as shown in Figure 7-1. The zone column may be added when zones are included in the drawing format and the design activity uses the practice to identify locations of revisions. The width of the revision history block may be changed to provide for other columns as necessary. See ASME Y14.35 for revision history block completion requirements.

8 REVISION STATUS OF SHEETS BLOCK

A revision status of sheets block shall record the revision status of each sheet and shall be included on sheet one of multiple-sheet drawings. The revision status of sheets block is shown as a tabulation similar to those shown in Figure 8-1. Table headings may be shown to the left or right for horizontal blocks or may be shown at the top or bottom for vertical blocks.

The revision status of sheets block may be located in the area of the revision history block, the title block, or, for drawings in book form, on a separate sheet.

See ASME Y14.35 for revision status of sheets block completion requirements.

The revision status of sheets block may be omitted when all sheets of a multiple-sheet drawing are maintained at the same revision level. A note on sheet one in the area of the revision history block or located near the title block shall state all sheets are maintained at the same revision level. For example, "ALL SHEETS MAINTAINED AT THE SAME REVISION" or "ALL SHEETS ARE REVISION B."

9 ASSOCIATED LISTS

See ASME Y14.34 for sheet sizes and formats of associated lists.

10 ADDITIONAL DATA BLOCKS (OPTIONAL)

Blocks containing various types of additional data, when required, shall be added adjacent to the title block and in the same respective location on all drawing sheets.

The following subparagraphs identify several commonly used blocks that may be added. When drawing size restricts placement of these optional blocks, the blocks may be located where space permits, except within the title block, unless otherwise specified within this Standard.

10.1 Angle of Projection Block

When used, the angle of projection block shall be included on drawing sheet one and shall be illustrated in accordance with ASME Y14.3. See Figure 10-1 for an example of a third-angle projection block. The block should be located in the title block if possible, but may be located near or adjacent to the title block if necessary. See Figures 4-1 through 4-5 for the angle of projection block's location within the title block.

10.2 Dimensioning and Tolerancing Block

When used, the dimensioning and tolerancing block shall be on drawing sheet one and be in the title block area. Information relative to dimensioning and tolerancing, such as angular and dimensional tolerances, are given in this block. See Figure 10-1. Reference to ASME Y14.5 may be included in this block.

10.3 Application Block

When used, the application block shall be located adjacent to the title block on drawing sheet one. The application block shall include the following columns for drawings depicting parts or assemblies of components for a larger unit (see Figure 10-2):

(a) "PART OR IDENTIFYING NUMBER"
(b) "NEXT ASSEMBLY"
(c) "USED ON"

The "PART OR IDENTIFYING NUMBER" column shall list part or identifying number(s) from different configurations within the drawing to be used on the next assembly(ies). The "NEXT ASSEMBLY" column shall list the drawing number(s) or part or identifying number(s) of the next higher assembly(ies) to which the item(s) applies. The "USED ON" column shall identify the system or subsystem to which the item pertains. As an alternative, reference may be made to application data in a separately maintained document or database. See ASME Y14.34 for additional information on application blocks.

11 ADDITIONAL DRAWING NUMBER BLOCKS (OPTIONAL)

11.1 Margin Drawing Number Block

When used, drawing number block location and orientation shall be in format margins. See Figures 4-1 through 4-5 for location. See Figure 11-1 for the format of a margin drawing number block.

11.2 Elongated Drawing Sheet Size Segment Identification Blocks

Drawing sheet size segment identification blocks facilitate the identification of segmented elongated-size drawings. When used, drawing sheet size segment identification blocks, as shown in Figure 5-6, may be used and positioned at the right end of each segment. See Figures 4-2, 4-4, and 4-5. When required, the DAI shall be located adjacent to the drawing sheet size segment identification block.

12 DATA MARKINGS

Data markings shall be placed on sheet one of a drawing sheet when required by contractual or company business requirements. When used, data markings may be located above or adjacent to the title block for drawings with separate parts lists or may be located near the left border of the drawing sheet. See ASME Y14.41 for details on applying markings to annotated models. See Figure 12-1 for example markings. The textual content of a data marking is determined by contractual or company business requirements. Types of markings may include any of the following:

(a) distribution statements
(b) export control statements
(c) destruction notices
(d) data rights statements (e.g., unlimited rights, limited rights, license rights)
(e) proprietary statements
(f) copyright statements
(g) security markings

Table 4-1 Smaller Metric Drawing Sheet Size Formats

Format Size Designation	Vertical Height	Recommended Zones [Note (1)]		Horizontal Width	Recommended Zones [Note (1)]		Format Margin [Note (2)]		Recommended Segment Reduction
		Number	Size		Number	Size	Vertical	Horizontal	
A0	841	16	50	1 189	24	50	20	20	30X
A1	594	12	50	841	16	50	20	20	24X
A2	420	8	50	594	12	50	10	10	16X
A3	297	6	50	420	8	50	10	10	16X
A4	297	6	50	210	4	50	10	10	16X

GENERAL NOTE: See Figure 4-1.

NOTES:
(1) The zone size selected shall be equal on the horizontal and the vertical, except the upper and far left zones may be an odd size to accommodate the remaining sheet size.
(2) Format margins do not include added protective or binding margins. See paras. 4.1.2 and 4.1.3.

Table 4-2 Elongated Metric Drawing Sheet Size Formats

Format Size Designation	Vertical Height	Recommended Zones [Note (1)]		Horizontal Width	Recommended Zones [Note (1)]		Format Margin [Note (2)]		Recommended Segment Reduction
		Number	Size		Number	Size	Vertical	Horizontal	
A1.0	594	12	50	1 189	24	50	20	20	24X
A2.1	420	8	50	841	16	50	10	10	16X
A2.0	420	8	50	1 189	24	50	10	10	16X
A3.2	297	6	50	594	12	50	10	10	16X
A3.1	297	6	50	841	16	50	10	10	16X
A3.0	297	6	50	1 189	24	50	10	10	16X

GENERAL NOTE: See Figure 4-2.

NOTES:
(1) The zone size selected shall be equal on the horizontal and the vertical, except the upper and far left zones may be an odd size to accommadate the remaining sheet size.
(2) Format margins do not include added protective or binding margins. See paras. 4.1.2 and 4.1.3.

Figure 4-1 Smaller Metric Drawing Sheet Size Formats, A0 Through A4 Sizes

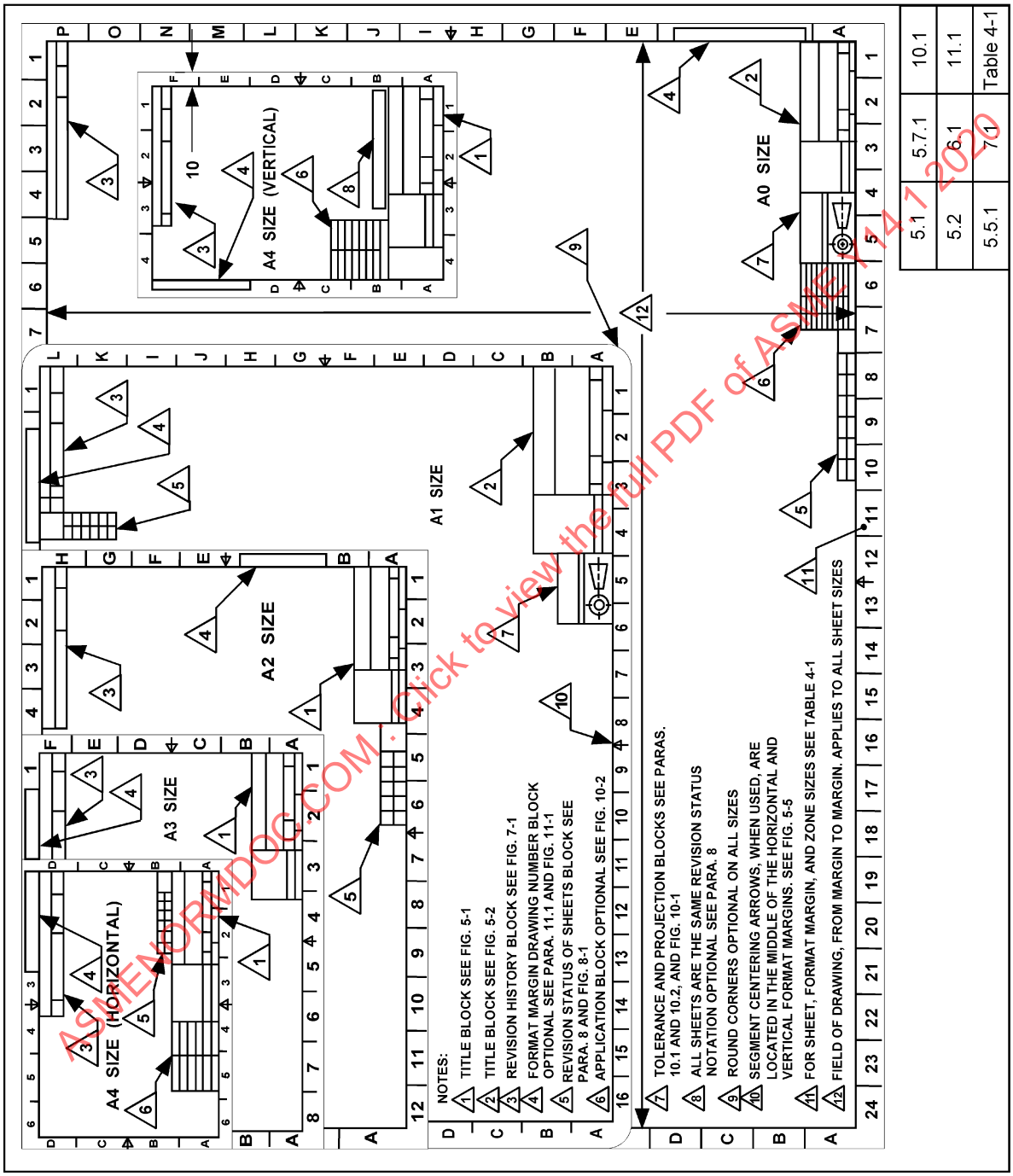
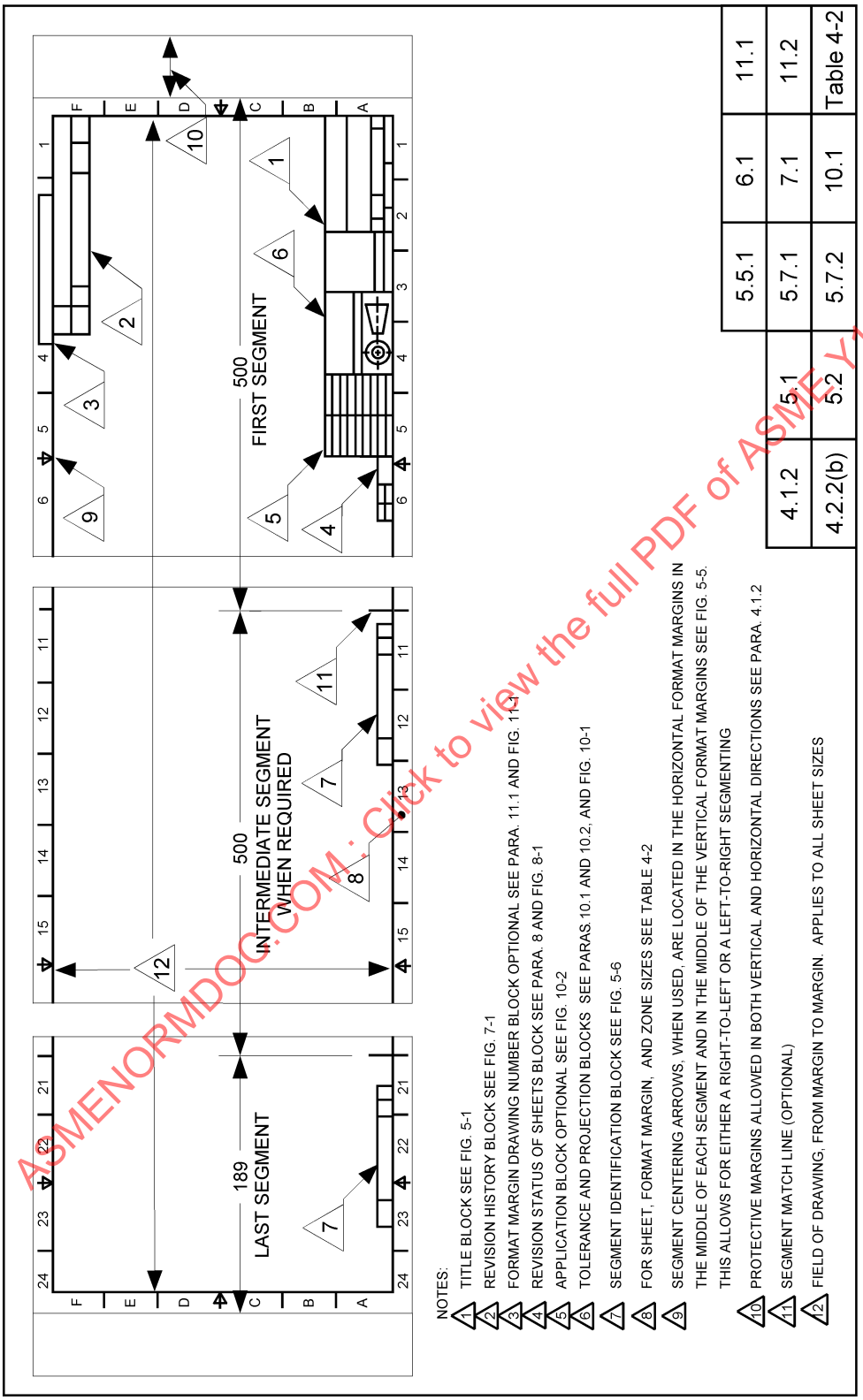


Figure 4-2 Elongated Metric Drawing Sheet Size Formats, A1.0, A2.1, A2.0, A3.2, A3.1, and A3.0 Sizes



NOTES:

1. TITLE BLOCK SEE FIG. 5-1
2. REVISION HISTORY BLOCK SEE FIG. 7-1
3. FORMAT MARGIN DRAWING NUMBER BLOCK OPTIONAL SEE PARA. 11.1 AND FIG. 11-1
4. REVISION STATUS OF SHEETS BLOCK SEE PARA. 8 AND FIG. 8-1
5. APPLICATION BLOCK OPTIONAL SEE FIG. 10-2
6. TOLERANCE AND PROJECTION BLOCKS SEE PARAS. 10.1 AND 10.2, AND FIG. 10-1
7. SEGMENT IDENTIFICATION BLOCK SEE FIG. 5-6
8. FOR SHEET, FORMAT MARGIN, AND ZONE SIZES SEE TABLE 4-2
9. SEGMENT CENTERING ARROWS, WHEN USED, ARE LOCATED IN THE HORIZONTAL FORMAT MARGINS IN THE MIDDLE OF EACH SEGMENT AND IN THE MIDDLE OF THE VERTICAL FORMAT MARGINS SEE FIG. 5-5. THIS ALLOWS FOR EITHER A RIGHT-TO-LEFT OR A LEFT-TO-RIGHT SEGMENTING
10. PROTECTIVE MARGINS ALLOWED IN BOTH VERTICAL AND HORIZONTAL DIRECTIONS SEE PARA. 4.1.2
11. SEGMENT MATCH LINE (OPTIONAL)
12. FIELD OF DRAWING, FROM MARGIN TO MARGIN. APPLIES TO ALL SHEET SIZES

4.1.2	5.1	5.5.1	6.1	11.1
		5.7.1	7.1	11.2
4.2.2(b)	5.2	5.7.2	10.1	Table 4-2

Table 4-3 Smaller Decimal-Inch Drawing Sheet Size Formats

Format Size Designation	Vertical Height	Recommended Zones [Note (1)]		Horizontal Width	Recommended Zones [Note (1)]		Format Margin [Note (2)]		Recommended Segment Reduction
		Number	Size		Number	Size	Vertical	Horizontal	
A (horizontal)	8.50	2	4.25	11.00	2	5.50	.50	.50	16X
A (vertical)	11.00	2	5.50	8.50	2	4.25	.50	.50	16X
B	11.00	2	5.50	17.00	4	4.25	.50	.50	16X
C	17.00	4	4.25	22.00	4	5.50	.50	.50	16X
D	22.00	4	5.50	34.00	8	4.25	.50	.50	24X
E	34.00	8	4.25	44.00	8	5.50	.50	.50	30X
F	28.00	6	4.67	40.00	8	5.00	.50	.50	30X

GENERAL NOTE: See Figure 4-3.

NOTES:
(1) Zone sizes shall be equal, no less than 1 in., and no more than 5.50 in.
(2) Format margins do not include added protective or binding margins. See paras. 4.1.2 and 4.1.3.

Table 4-4 Elongated Decimal-Inch Drawing Sheet Size Formats

Format Size Designation	Vertical Height	Recommended Zones [Note (1)]		Horizontal Width		Recommended Zones [Note (1)]		Format Margin [Note (2)]		Recommended Segment Reduction
		Number	Size	Min	Max	Number	Size	Vertical	Horizontal	
G	11.00	4	2.75	22.50	90.00	6–24	3.75	.50	.50	16X
H	28.00	8	3.50	44.00	176.00	8–32	5.50	.50	.50	30X
J	34.00	8	4.25	55.00	176.00	10–32	5.50	.50	.50	30X
K	40.00	8	5.00	55.00	198.00	10–36	5.50	.50	.50	30X

GENERAL NOTE: See Figures 4-4 and 4-5.

NOTES:
(1) Zone sizes shall be equal, no less than 1 in., and no more than 5.50 in.
(2) Format margins do not include added protective or binding margins. See paras. 4.1.2 and 4.1.3.

Figure 4-3 Smaller Decimal-Inch Drawing Sheet Size Formats, A Through F Sizes

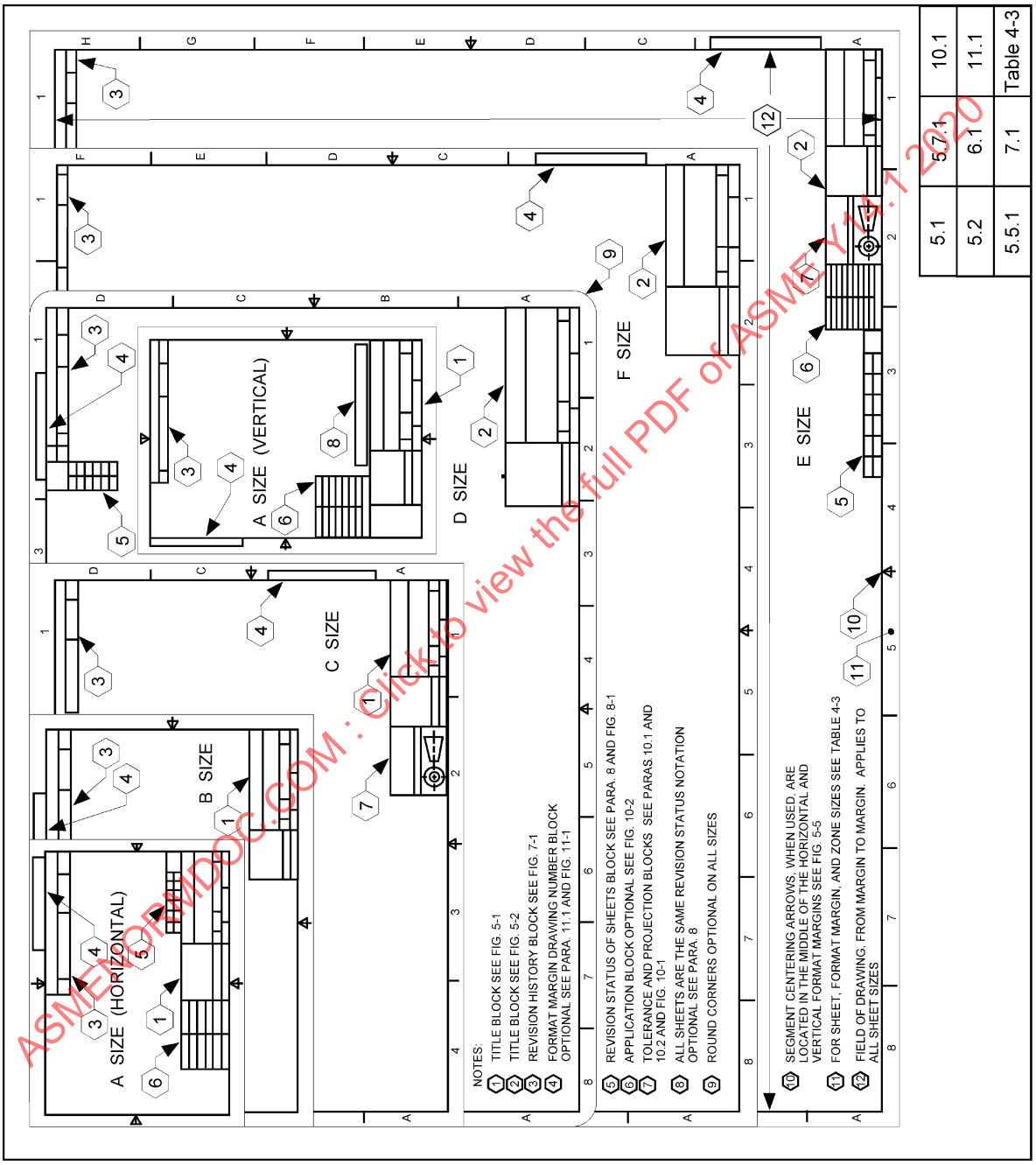


Figure 4-4 Elongated Decimal-Inch Drawing Sheet Size Format, G Size

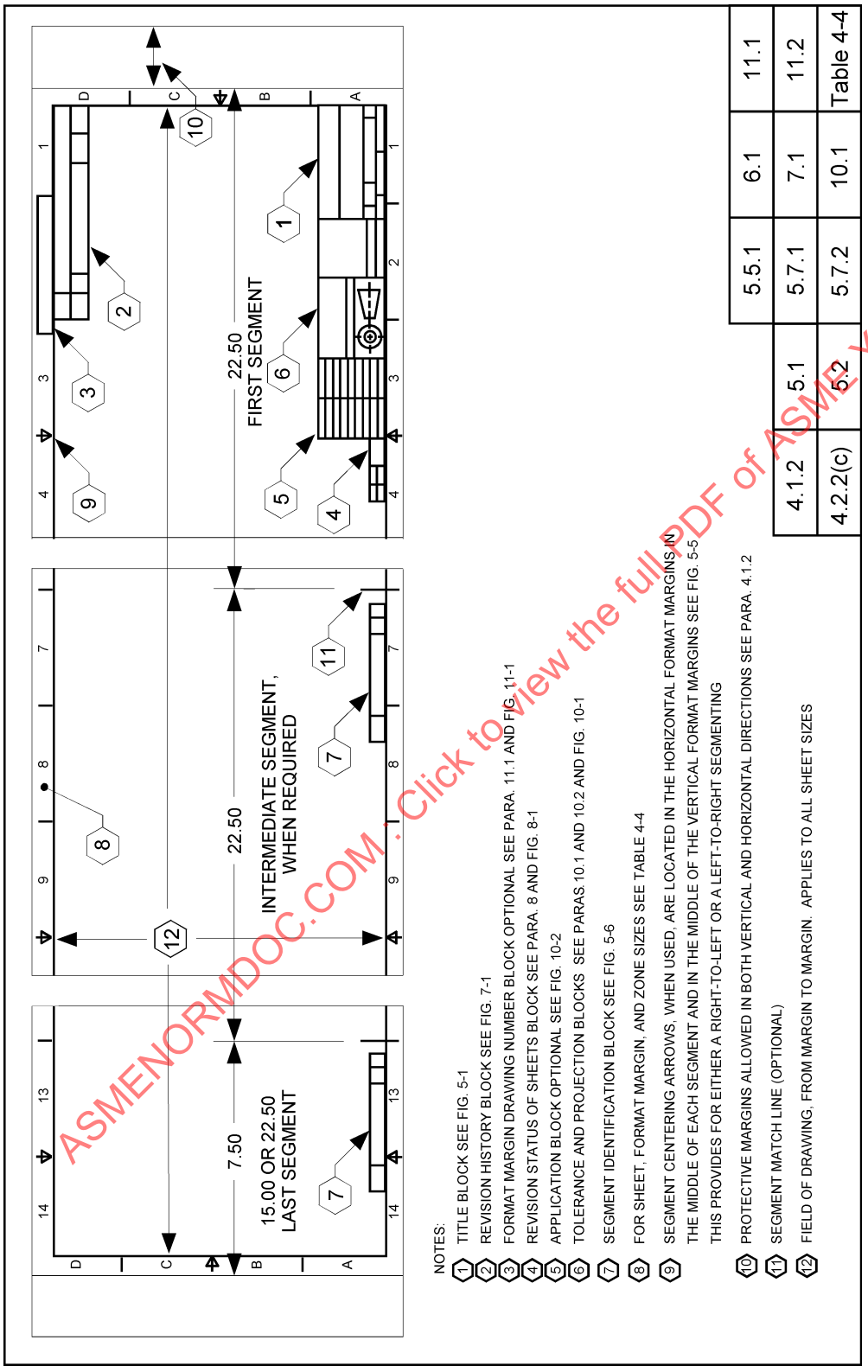


Figure 4-5 Elongated Decimal-Inch Drawing Sheet Size Formats, H, J, and K Sizes

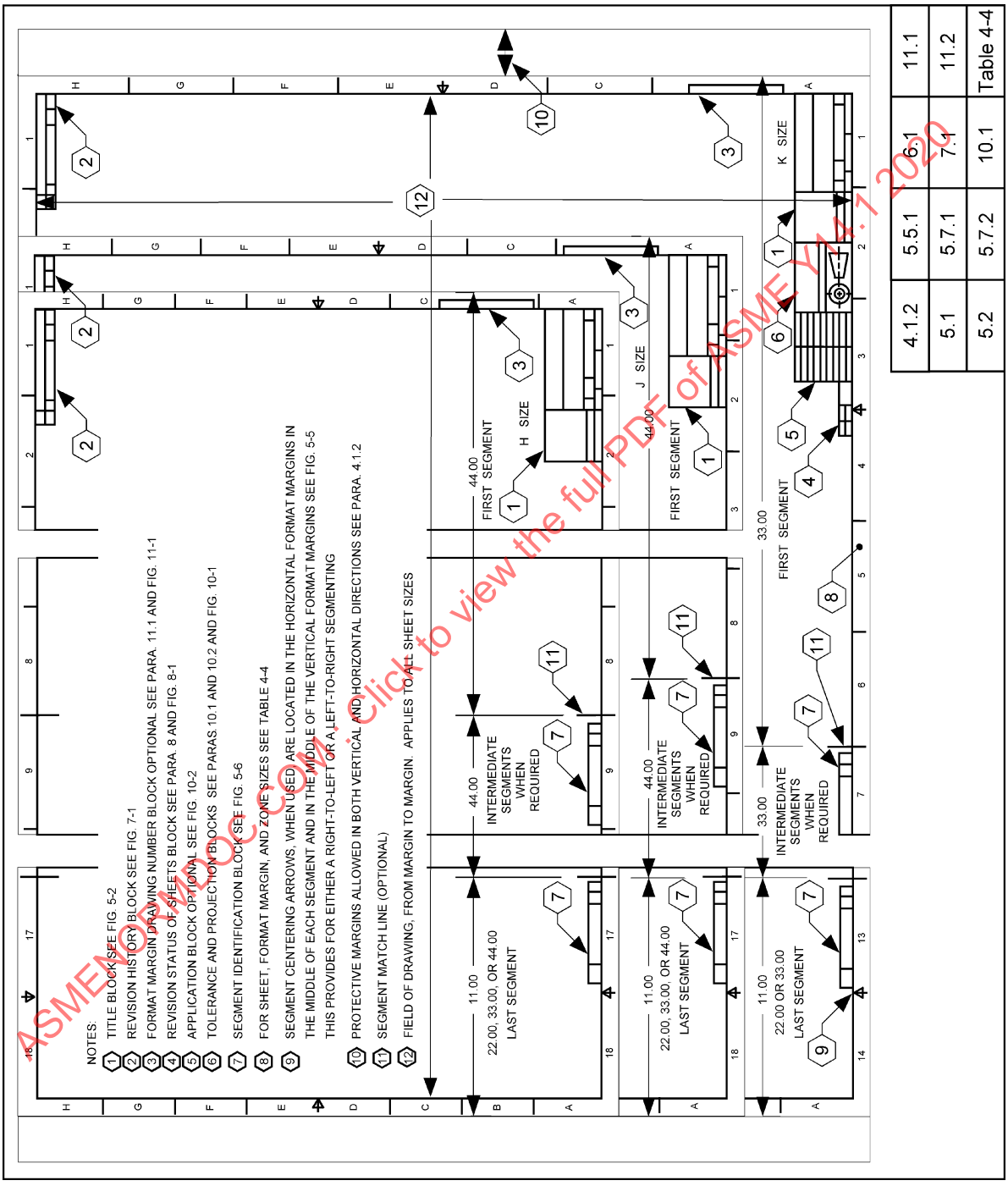


Figure 4-6 Metric System Size Overview

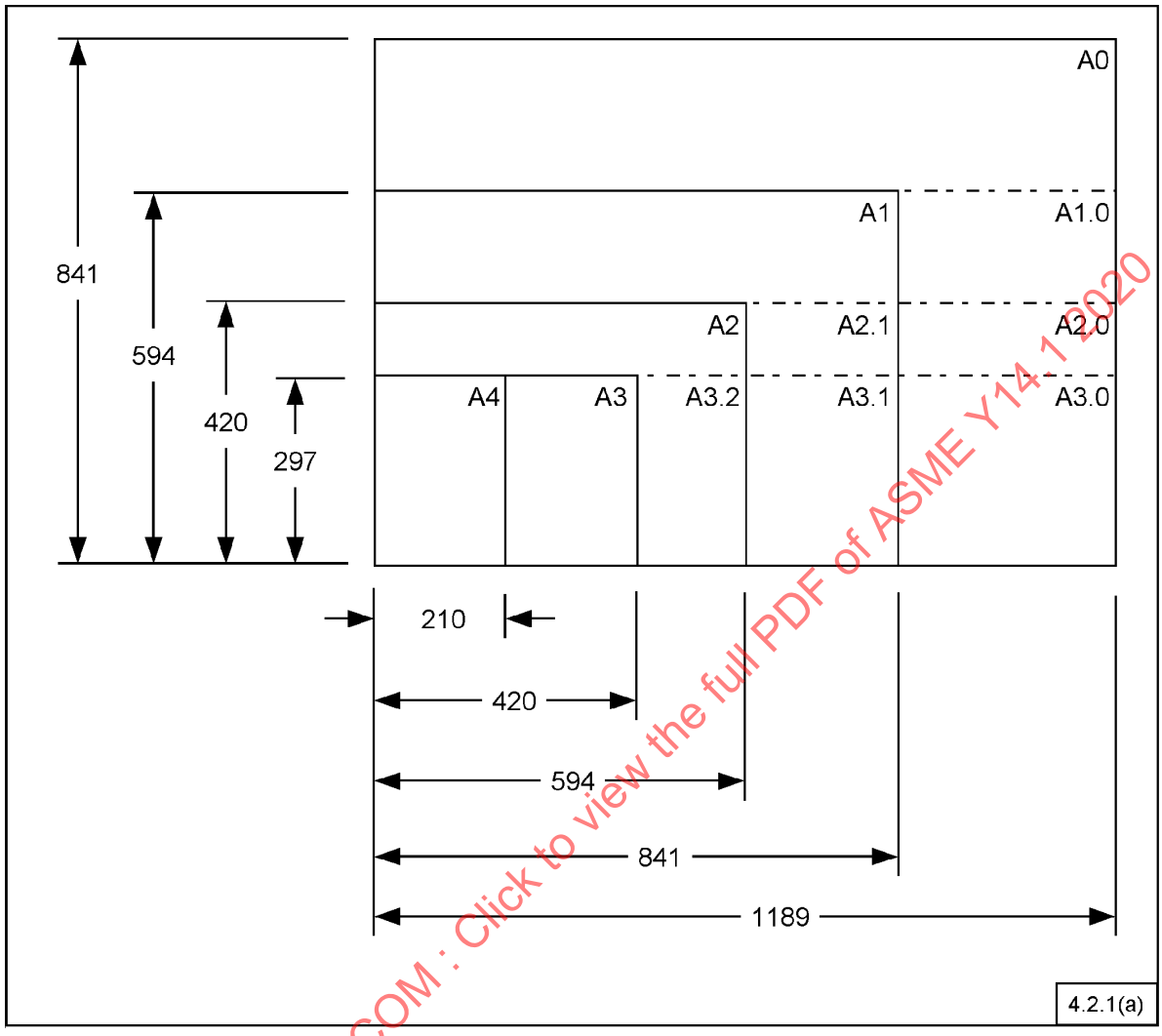


Figure 5-1 Title Block for Smaller Drawing Sheet Size Formats

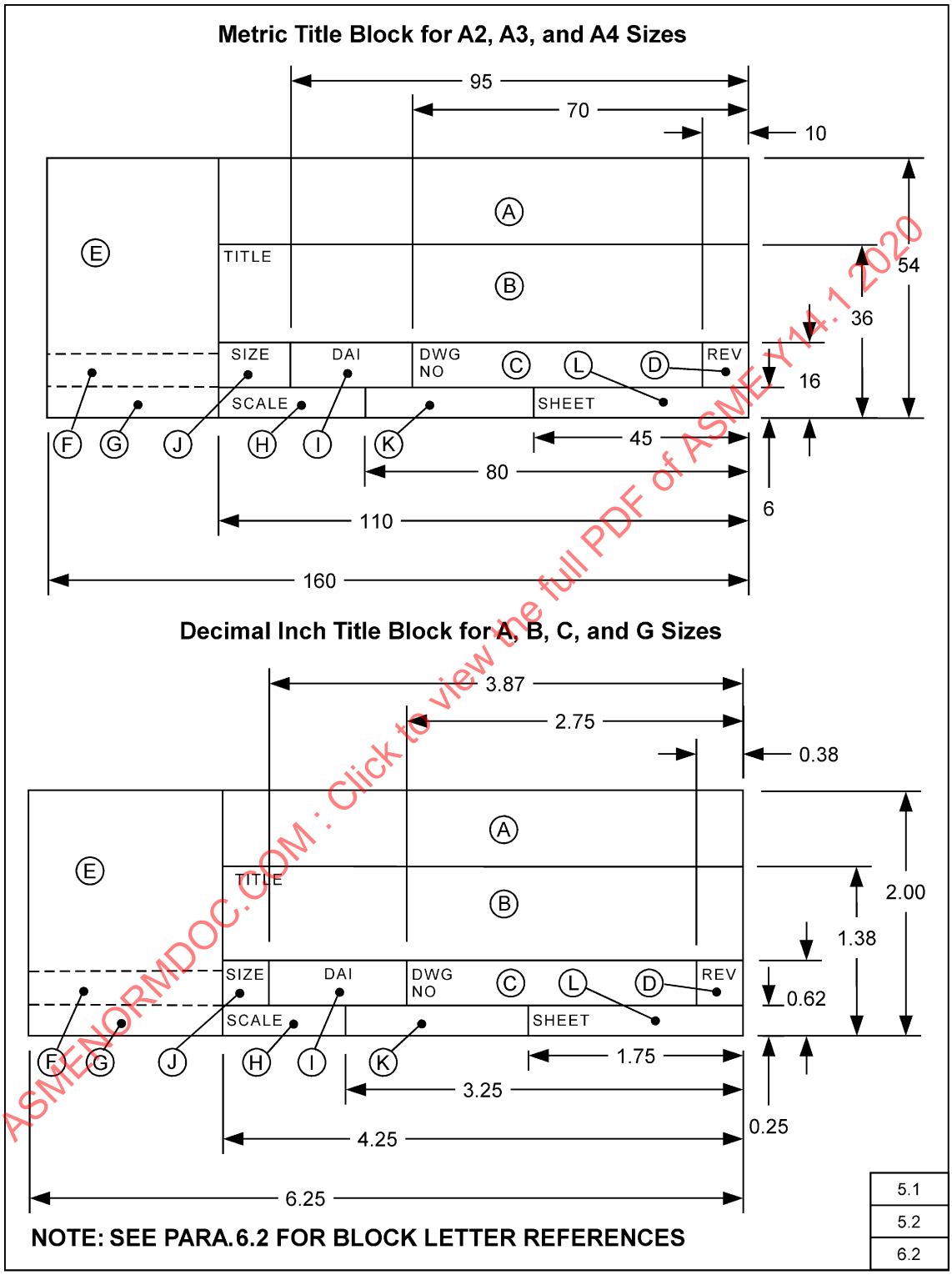


Figure 5-2 Title Block for Elongated Drawing Sheet Size Formats

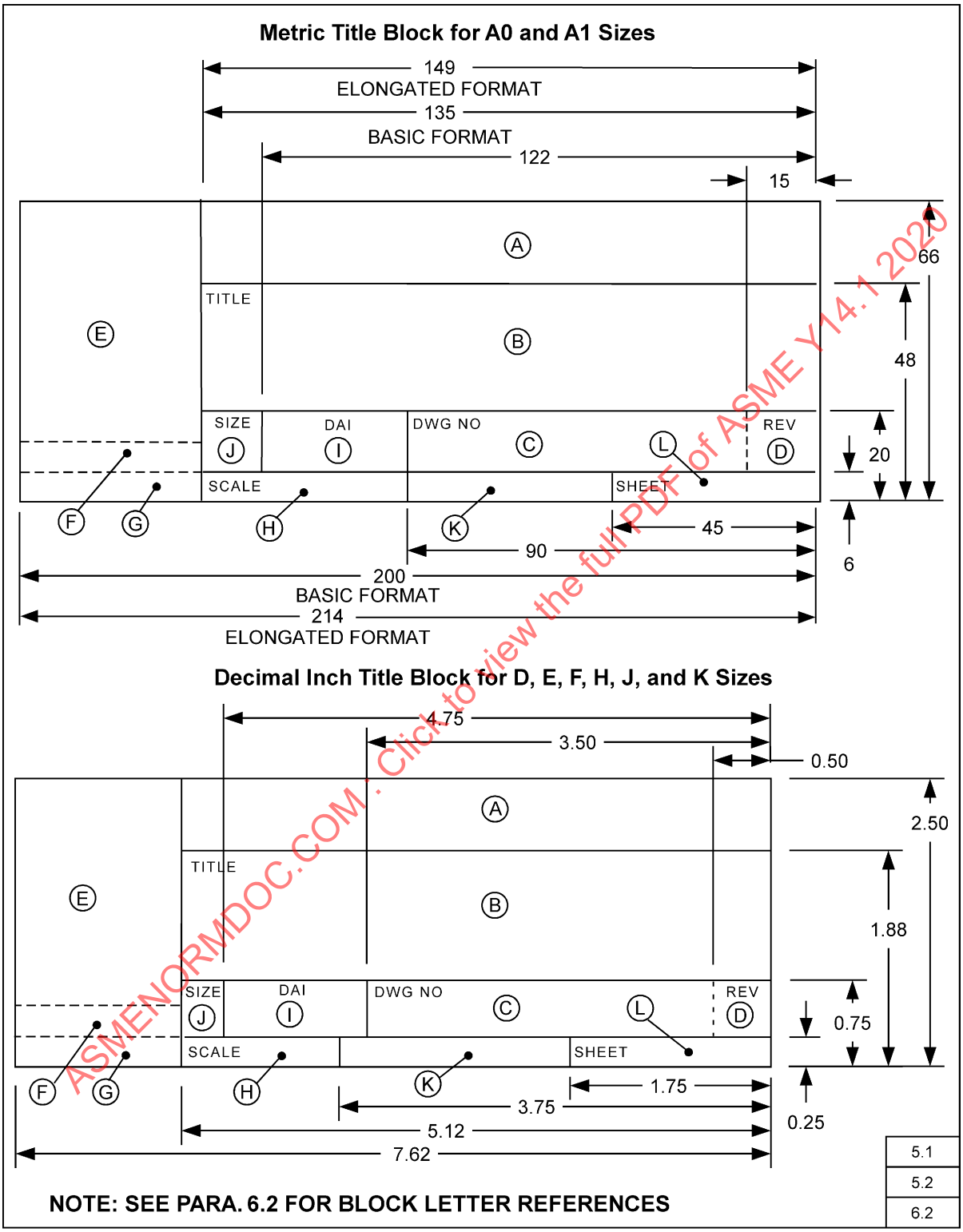


Figure 5-3 Continuation Sheet Title Block for Smaller Drawing Sheet Size Formats

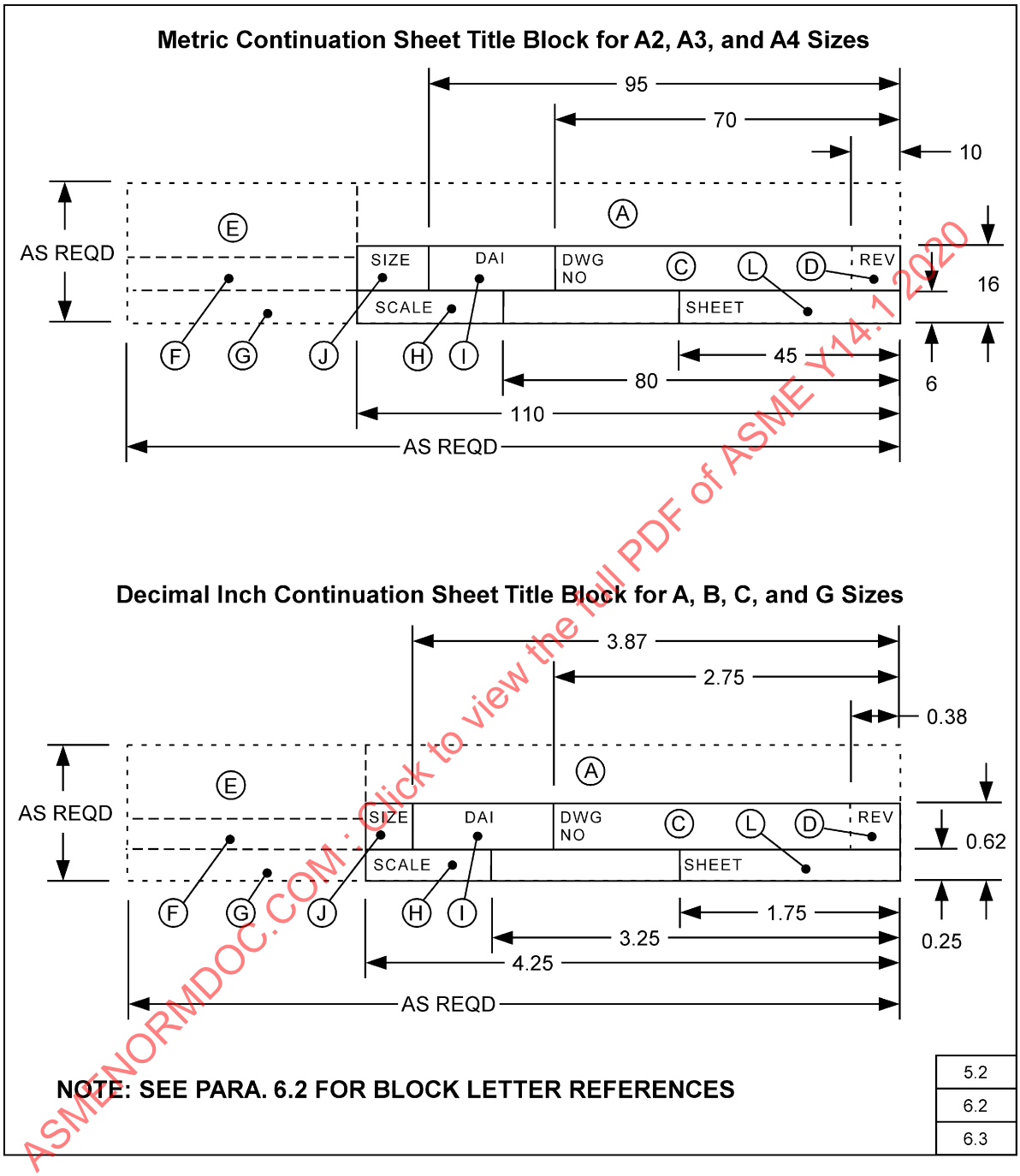


Figure 5-4 Continuation Sheet Title Block for Elongated Drawing Sheet Size Formats

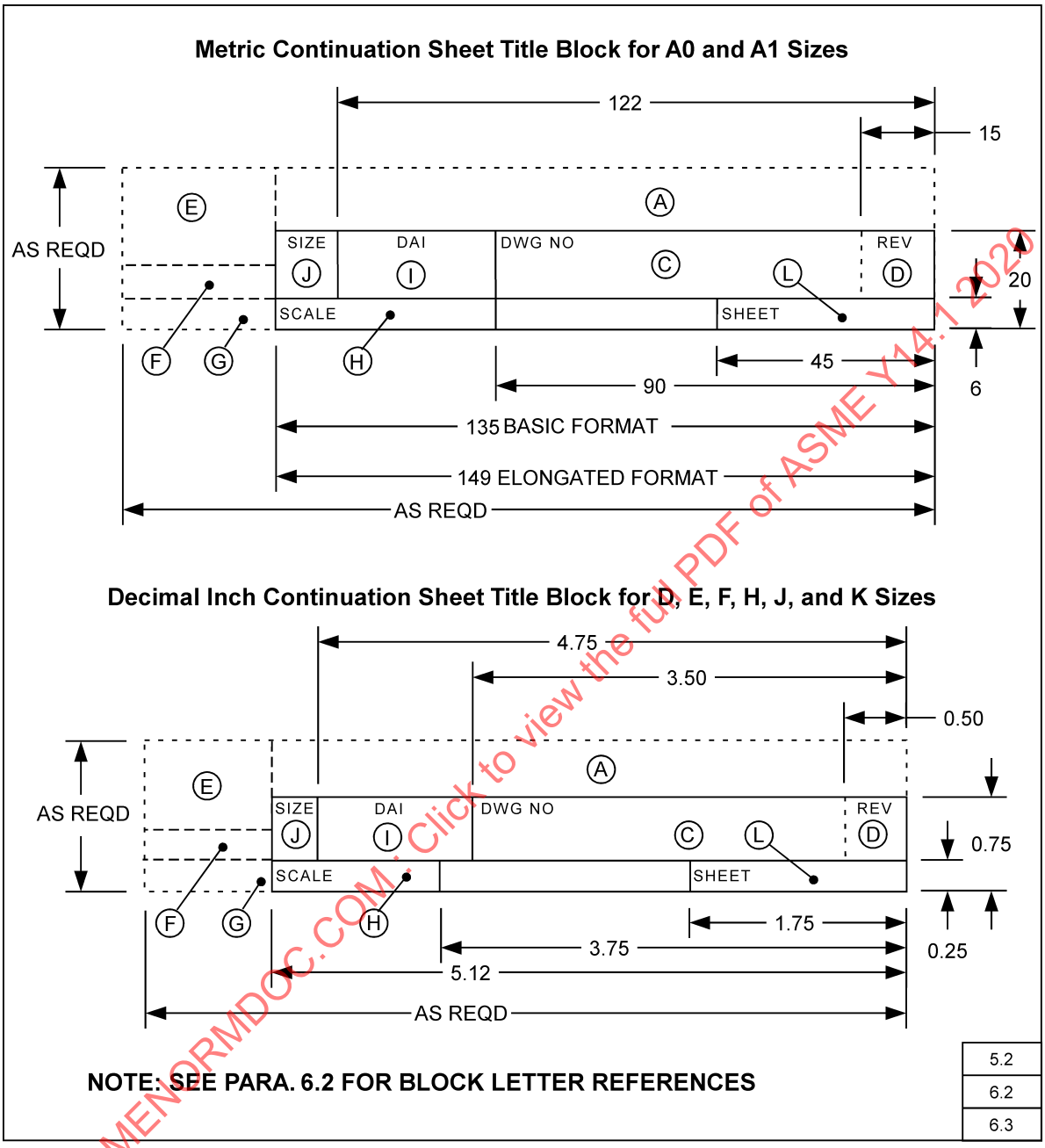


Figure 5-5 Segment Alignment Arrowheads