10.1 SCOPE.

10.1.1 Purpose. This section establishes the requirements and procedures to be observed in the preparation of a parts list integral with or separate from the drawing. Lists may be prepared manually or from digital data.

10.1.2 Type of Parts Lists (PL). The type of Part List to be prepared whether it be integral or separate from the drawings shall be as contractually specified.

10.2 APPLICABLE DOCUMENTS. Note: DoD Policy Memo 05-3 "Elimination of Waivers to Cite Military Specifications and Standards in Solicitation and Contracts" has eliminated the need for waivers to use MIL-SPECS and MIL-STDS on DoD contracts. (See PREFACE 1, Section 2)

MIL-STD-804	Formats and Coding of Aperture, Camera, Copy and Tabulating Cards (INACTIVE)
MIL-STD-961	Military Specifications and Associated Documents, Preparation of
H4/H8	Cataloging Handbook Commercial and Government Entity (CAGE)
H4/H8 Sect A	Name to Code
H4/H8 Sect B	Code to Name
ASME Y14.1	Inch Drawing, Sheet Size and Format
ASME Y14.1M	Metric Drawing, Sheet Size and Format
ASME Y14.34M	Parts Lists, Data Lists, Index Lists and Indentured Lists
ASME Y14.100	Engineering Drawing Practices
ANSI / IEEE STD 200	Electrical and Electronic Parts and Equipment
ANSI/IEEE STD 315	Graphic Symbols for Electrical and Electronic Diagrams

10.3 DEFINITIONS. (Alphabetically Listed)

10.3.1 Alphanumeric Arrangement. For a designation in a list, a grouping of mixed symbols, numbers and letters used to form the designation. These are arranged so that the first character in the designation aligns in the furthest leftmost position in the column. For each designation in the column, the first position characters are arranged by symbols, e.g., a dash symbol, then numerically, then alphabetically, as applicable. .Succeeding characters in the second position (and subsequent positions) are next arranged by symbol, then numerically, then alphabetically in the same manner as the first position. Designations composed only of single characters shall be arranged first within a column list, followed by those with a dash in the second character position. Next, after the dash second character position, shall come the numerical second position characters, then the alphabetical second position characters, then the alphabetical second position characters. These positions are applicable for all remaining character positions with designations.

10.3.2 Application Data. The next assembly (ies), and the model number, nomenclature, or equivalent designator of the assembled unit(s), of which a part or assembly is a component.

10.3.3 Application List (AL). Application data presented in a separate list.

10.3.4 Bulk Item. "Bulk items" are those necessary constituents of an assembly or part such as oil, wax, solder, cement, ink, damping fluid, grease, powdered graphite, flux, welding rod, thread, twine and chain for which the quantity required is not readily pre-determinable; or if knowing the quantity, the physical nature of the material is such that it is not adaptable to depiction on a drawing; or which can be cut to finished size by the use of such hand or bench tools as shears, pliers, knives, etc., without any further machining operations, and the configuration can be fully described in writing without an illustration.

10.3.5 CAGE Code (Commercial And Government Entity Code). A code assigned by the government to identify a firm which designs, manufactures or supplies items.

10.3.6 Data List (DL). A data list is a tabulation of all engineering drawings, documents referenced thereon, associated parts lists and special lists, specifications and subordinate data lists pertaining to the item to which the data list applies and essential in-house documents necessary to meet the technical design disclosure requirements except for those in-house documents referenced parenthetically.

10.3.7 Design Activity. An activity having, or having had, responsibility for the design of an item. The activity may be a government activity or a contractor, vendor or other.

10.3.8 Design Activity, Current. An activity currently having responsibility for the design of an item, and the preparation and maintenance of the drawings and associated documents. Current design activity could be the original design activity or new activity when that responsibility is transferred from another design activity.

10.3.9 Design Activity, Original. An activity that initially had responsibility for the design of an item and the preparation and maintenance of the drawings and associated documents.

10.3.10 Digital Data. Data created and stored on a company system which employs a display on which the user and the computer interact to create entries for producing layouts, drawings, numerical control tapes, disks or other engineering data.

10.3.11 Document Change Notice (DCN). Authorization document to make change(s) to a drawing. Also referred to as NOR (Notice Of Revision), EO (Engineering Order), EN (Engineering Notice), ECO (Engineering Change Order), ECN (Engineering Change Notice), CID (Change In Design), ADCN (Advance Drawing Change Notice) or AN (Alteration Notice).

10.3.12 Find (Item) Number. Find numbers (item numbers) are assigned to every line entry, occupied or not, of an assembly parts list to facilitate the location of that item in the field of the drawing. They are not used for other identification purposes. Reference designations in accordance with IEEE 200 may be used as find numbers or item items.

10.3.13 Flagnote. A note whose text is prefixed by a note identification enclosed within a symbol (flag). The note is cross referenced to a specific area on a drawing, or associated list, by entering the flag at the point of application.

10.3.14 Identification Cross-Reference Drawing. An administrative type drawing which assigns unique identifiers to provide a cross-reference to the original incompatible identifiers.

10.3.15 Indentured Data List (IDL) An indentured data list is a list of all documents required to define a complete system or end item listed in a top-down (generation tree) order.

10.3.16 Index List (IL). An index list is a tabulation of data lists and subordinate index lists pertaining to the item to which the index list applies.

10.3.17 Integral Parts List (IPL or PL). A parts list prepared and revised on the drawing.

10.3.18 Item. A nonspecific term used to denote any unit or product, such as a part, material, assembly, equipment, accessory or attachment.

10.3.19 Parts List (PL). A tabulation of parts and bulk materials required to fabricate or procure the item(s) shown on a drawing. Reference documents may also be tabulated on a Parts List. The term "List of Materials" (LM) is no longer used interchangeably with parts list (PL).

10.3.20 Revision Authorization Document. A document recognized as the authority for making a change to a drawing or associated documentation. Revision authorization documents are frequently identified as listed in PARAGRAPH 10.3.11

10.3.21 Separate Parts List (SPL). A Parts List prepared separately from the drawing and may be revised independently of the drawing.

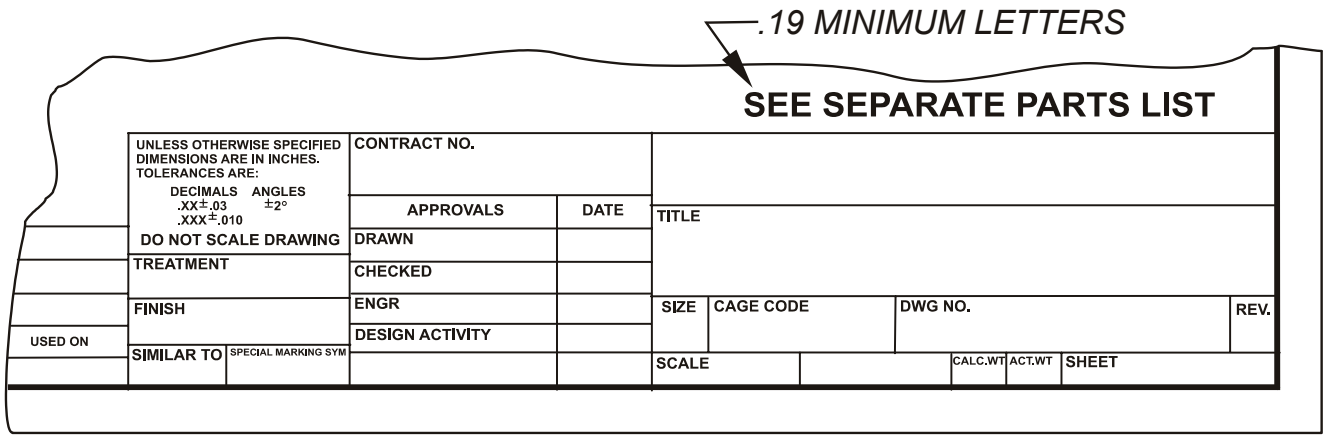
10.4 LIST PREPARATION.

10.4.1 Method Of List Preparation. Parts Lists, Data Lists, Indentured Lists and Index Lists may be prepared manually or by use of Automatic Data Processing System (ADPS) techniques.

10.5 LIST DETERMINATION.

10.5.1 Integral Or Separate Parts List Determination. The type of lists to be prepared and whether the parts list shall be prepared integral or separate from the drawing shall be determined by contract or procurement activity.

10.5.1.1 Drawing Identification Of "Separate Parts List". When a "Separate Parts List" (SPL) is cited, a note "SEE SEPARATE PARTS LIST" shall be located above the title block of the parent engineering drawing. See FIGURE 10-1. When application data is included on a Separate Parts List, the note shall be expanded to read "SEE SEPARATE PARTS LIST FOR PARTS AND APPLICATION DATA".



SEPARATE PARTS LIST NOTATION.
FIGURE 10-1

10.5.1.2 Manually Prepared "Separate Parts List" Sizes. Manually Prepared "SEPARATE PARTS LIST" (SPL) shall utilize a format size of either “A” (8.50 x 11) or “B” (11 x 17) for decimal inch size or “A4” (210mm X 297mm) or “A3” (297mm X 420mm) for metric sizes and follow formal design and preparation requirements as provided in PARAGRAPH 10.11 and FIGURE 10-14.

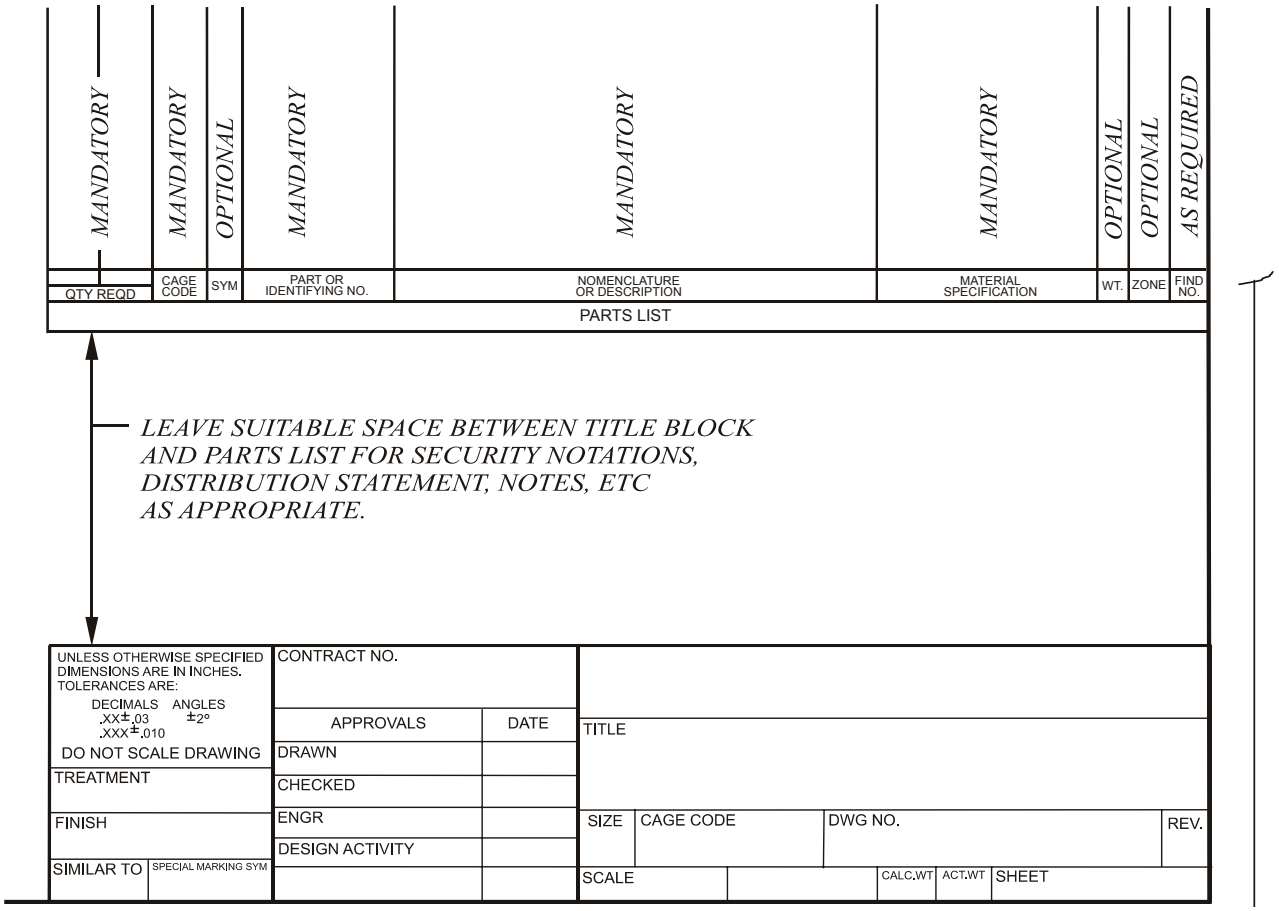
10.5.1.3 Machine Prepared "Separate Parts List" Sizes. "Automatic Data Processing System" (ADPS) shall not require preprinted formats if normal machine operations can duplicate format headings and listings. The size of format print-outs shall be commensurate with machine capability and blank computer standard-sized marginally punched, continuous, paper stock. See PARAGRAPH 10.16 and FIGURE 10-22.

10.5.1.4 Minimum Margin for Separate Lists. The minimum margins sizes given for the format shown in FIGURES 10-14, 10-15, 10-16, 10-17, 10-21, and 10-21.1 now include .50 inch to agree with Table 1 in ASME Y14.1-2005, which was revised to set the minimum margin width on A-size and B-size formats to .50 inch. The old values of .25 inch, .38 inch, and .62 inch have been changed to optional values. Permission should be obtained from the procurement activity if it is desired to continue to use formats with margins set to the old values. These values do not apply to metric size formats (e.g. A3 & A4).

10.5.2 Parts List Security Classification. Separate parts lists for classified drawings are not classified unless they also contain classified information.

10.6 GENERAL REQUIREMENTS FOR INTEGRAL PARTS LIST (PL or IPL)

10.6.1 Parts List (PL) Format. When part lists are prepared integral with the drawing, they shall include, as a minimum, columns shown on FIGURE 10-2. Columns may be preprinted to proportions shown in SECTION 6. Mandatory columns shall appear and additional columns may be added as required.



INTEGRAL PARTS LIST FORMAT.
FIGURE 10-2

10.6.2 Parts List (PL) Location.

10.6.2.1 Rules Regarding Integral Parts List Location. The parts list is located in the lower right hand corner of the drawing, allowing suitable distance above the title block for mandatory Distribution Statement, Security Classification (when required), Nuclear Critical Safety, Electrostatic, etc. markings as applicable. On detail drawings with brief parts lists, this space may be utilized for drawing. On multiple sheet drawings, the parts list starts on Sheet 1 and continues on as many sheets as necessary. See SECTION 6, FIGURE 6-4.

10.6.2.2 Additional Space Allotted For Long Parts List. When the space allotted for the parts list has been filled, (see SECTION 6), additional blocks may be added to the left of the original block, leaving a minimum space of 1.0 inch [25.4mm] between blocks. See SECTION 6, FIGURE 6-4.

10.6.3 Parts List (PL) Columns.

10.6.3.1 Parts Lists (PL). Part Lists are made up of mandatory and optional columns as shown in FIGURE 10-2.

10.6.3.2 Mandatory Columns. Mandatory Columns are described further in this section under detail drawings, assembly drawings, multiple assembly drawings, etc.

10.6.3.3 Optional Columns. Optional columns are provided as required to clarify or enhance the parts list illustrated in FIGURE 10-2.

e.g. SYM = Symbol Column used to identify type of part (Assigned or internally assigned)

a. VICD Vendor Item Control Drawing (Formerly Specification Control Drawing (SCD)
b. SOCD Source Control Drawing (Formerly SCD)
c. PP Purchased Part
d. BI Bulk Item
e. etc.

10.6.4 Parts List (PL) Entries. Each is entered only once in the parts list. Part materials referenced from another drawing are not entered on the parts list of assembly drawings. See FIGURES 10-9 and 10-10.

10.6.4.1 Entry Space Size Of Parts List. The parts list entry spaces are normally .50 inch high. When additional space is required, the height of the entry spaces is increased in increments of .50 inch. See FIGURE 10-4.

10.6.5 Parts List Entry Groupings. Parts entered in the parts list usually follow the order listed below, but this order and the need for grouping, though preferred, is not mandatory. See FIGURES 10-8, 10-9 and 10-10.

a. Suffix Identifier (dash) Numbered Parts of the Parent Drawing Number
b. Subassemblies detailed on the same drawing
c. Parts and assemblies detailed on other drawings
d. Company Numbered parts listed in numerically ascending order
e. Company Standard Parts
f. Military Standard Parts (AN, MS, etc.)
g. Industry Standard Parts (AS, NAS, etc.)
h. Commercial Parts (Suppliers Items)
i. Bulk Items
j. Customer Furnished and Controlled Items

10.6.6 Substitute/Alternate Material Or Item.

10.6.6.1 Acceptable Substitute/Alternate. A material or item is an acceptable substitute/alternate for another material or item when it possesses interchangeable physical and functional characteristics. See FIGURES 10-3, 10-4 and 10-4.1.

10.6.6.2 Restricting Use Of Substitute/Alternates. The use of substitutes/alternates shall be kept to a minimum. Substitutes/alternates are specified on the drawing only or parts list upon instruction from the responsible designer. Substitutes/alternates may require an identity different from the preferred part or material, but do not require a new identity for the assembly in which they are used. Only the substitutes/alternates listed on the drawing or parts list may be used.

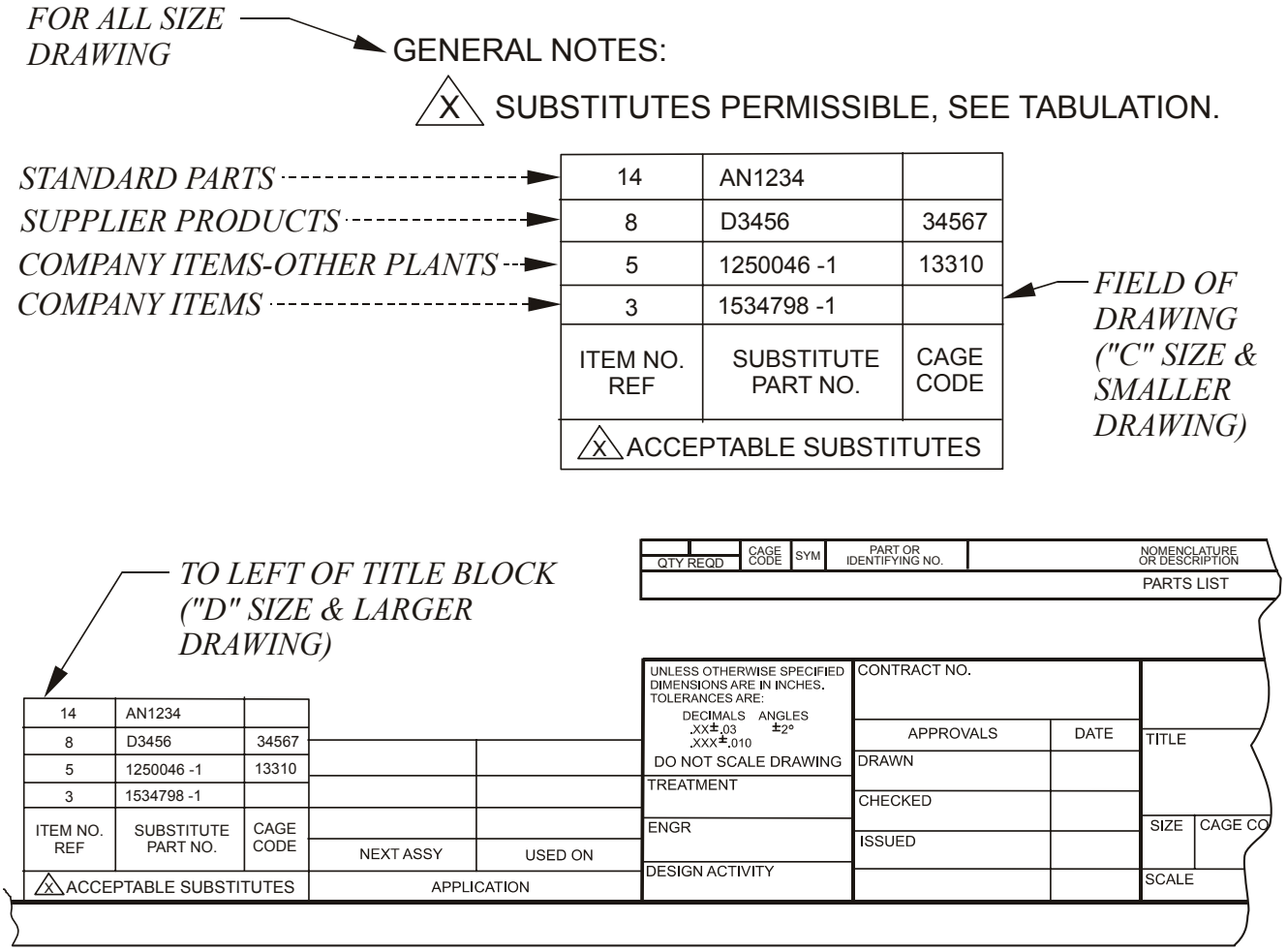
10.6.6.3 Rules Governing Use of Substitutes/Alternates On Drawings. The following drafting practice is used when substitutes/alternates are specified on the drawing.

10.6.6.3.1 Single Substitute/Alternate Call Out. A single substitute/alternate may be specified in a general note and cross-referenced to the preferred item in the parts list.

Example:

X PERMISSIBLE TO USE (*substitute/alternate part number and Commercial and Government Entity (CAGE) when required)* IN PLACE OF *(parts list part identification number (PIN)).*

10.6.6.3.2 Multiple Substitute/Alternate Call Out for Integral Parts List. Two or more substitute/alternate items are specified in a tabulation block and qualified by a general note cross referenced to the parts list entries. On "C" size and smaller drawings, the tabulation may be located wherever for convenience on the field of the drawing. On "D" size and larger drawings, the tabulation is located adjacent to the lower border and to the left of the title block. See FIGURES 10-3 and 10-4.1.



"ACCEPTABLE SUBSTITUTES" TABULATION BLOCK LOCATION.
FIGURE 10-3

10.6.6.3.3 Multiple Substitutes/Alternates Without Preference For Use. When there is no preference between two or more materials or items, enter them together in a single space in the parts list. See FIGURE 10-4.

			-3	BRACKET	CRES 347	MIL-S-7431 CL 1 TYPE 1 OR MIL-S-8673 CL 1 COND B	
QTY REQD	-1	CAGE CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION		FIND NO.

PARTS LIST

See FIGURE 10-2

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS .XX±.03 .XXX±.010 ANGLES ±2°	CONTRACT NO.		
	APPROVALS	DATE	TITLE
DO NOT SCALE DRAWING	DRAWN		
TREATMENT	CHECKED		
FINISH	ENGR		SIZE / CAGE CODE / DWG NO. / REV.
	DESIGN ACTIVITY		
			SCALE / CALC.WT / ACT.WT / SHEET

PARTS LIST ENTRY FOR SUBSTITUTES WITHOUT PREFERENCE.
FIGURE 10-4

10.6.6.4 Use of Substitute/Alternate Parts or Bulk Items on a Separate Parts List. The find number column on the parts list and the quantity required column can be used to indicate substitute/alternate parts or bulk items. An applicable sequence find number will be shown for the preferred item in the find number column, and the actual quantity required will be shown in the "Quantity Required" column. The substitute/alternate item is indicated by entering the same applicable find number in the find number column, and the abbreviation "SUBST" for substitute part will be shown in the "Quantity Required" column. See FIGURE 10-4.1.

PARTS LIST | 1. DESIGN ACTIVITY | 1a. CONTRACT NO. | 2. CAGE CODE CURRENT / ORIGINAL | 3. ORG DATE YR-MO-DA | 4. PL | 5. REV

6. LIST TITLE | 7. END ITEM | 8. APPROVAL | 9. REV AUTH NO. | 10. SHEET OF SHEETS

11. ITEM OR FIND NUMBER	12. QTY ROD	13. UNIT OF MEASURE	14. CAGE CORE	15. PART OR IDENTIFYING NUMBER	16. DRAWING/DOCUMENR 16a. SIZE	NUMBER	17. REV LTR	18. SHT NO.	19. NOMENCLATURE OR DESCRIPTION	20. WT UNIT OR ASSY	21. HCI or HCP	22. SUPL LIST	23. NOTES
3													
4	1			AB12345-7	D	AB12345			SPACER				
4	SUBST			AB56789-7	D	AB56789			SPACER				
5													
9													
10	AR			MMM-A-131T1C1-2		MMM-A-131			ADHESIVE, GLASS-TO-METAL FOR OPTICAL ELEMENTS TYPE 1, CLASS 1 AND 2				
10	SUBST			MMM-A-131T2		MMM-A-131			ADHESIVE, GLASS-TO-METAL FOR OPTICAL ELEMENTS TYPE 2				
11													

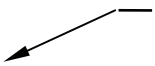
NOTE: THIS METHOD MAY ALSO BE APPLIED TO AN INTEGRAL PARTS LIST.

24. LTR	25. DESCRIPT/AUTH	26. DATE YR-MO-DA	27. APVD	24. LTR	25. DESCRIPT/AUTH	26. DATE YR-MO-DA	27. APVD

28. SUF NO.	29. NEXT ASSEMBLY	30. USED ON

LISTING SUBSTITUTE PARTS AND BULK ITEMS.
FIGURE 10-4.1

10.6.6.5 Identifying Substitute/Alternate Parts on Drawings. Drawings that show parts, materials or methods as substitute/alternate to permit establishment of substitute/alternate sources of supply, permit production of parts by alternate methods of manufacture or permit fabrication of items with substitute/alternate parts or materials. If parts are identified on the field of the drawing by part number (PIN) callout, the substitute/alternate parts or assemblies shall be identified directly or by reference, by on assembly or installation drawings as follows:



127XXXX1 - Preferred
128XXXX3 - Substitute

NOTE: The use of the word “ALTERNATE” is acceptable if used on existing drawings.

10.6.7 Bulk Items (BI).

10.6.7.1 Materials Used As Bulk Items. Bulk items used to produce an inseparable assembly and/or non-permanent surface protection (e.g., solder, weld rod, paint, primer, etc.) are entered in the parts lists. The quantity required is not pre-determinable. The application method is established by a local note, general note, or in the finish block. The physical nature of the material does not require a pictorial representation.

10.6.7.1.1 Estimated (EST) Quantity. Enter a numerical amount in the "Nomenclature or Description" Column and place "EST" (Estimate) in the "QTY REQ" Column. See FIGURE 10-10. The finished size can be described in writing without a pictorial representation.
(i.e. Lock-wire 98.0 inches)

10.6.7.1.2 Bulk Materials Requiring Separate Part Number and Drawing. Separate engineering drawings shall not be prepared for specific quantities of bulk materials unless the bulk material requires assignment of a National Stock Number (NSN) for provisioning purposes and not having an associated part or identifying number system shall require a drawing. Bulk materials, which have a finite shape (such as wire, tubing, cable, chain, tape and hose) and are required to support provisioning requirements, shall be identified as a component on assembly or installation drawings by a discrete part number. The part number consists of a document number and suffix identifier (dash) numbers, as applicable, to identify size, length or quantities used in the assembly or installation. Accordingly, the absence of controlling documentation and Part or Identification Numbering systems shall require a separate drawing. Separate drawings shall not be prepared for bulk materials covered by existing specifications or standards except where required to support provisioning or maintenance and a part or identification numbering system is absent.

10.6.7.2 Materials Used For Surface Protection. Materials used to produce permanent surface protection (e.g., electroplating, passivating, anodizing, chromate conversions, etc.) are not entered in the parts list. The call out of the appropriate specification, either on the field of the drawing or referenced to a General Note as appropriate, will suffice for these materials.

10.6.7.2.1 Materials Used As Part Of A Process. When materials used are part of a process or process specification and are called out in the process or process specification, they are not entered in the parts list, e.g., anodize, chromium plate, cadmium plate, etc.

10.6.7.2.2 Materials Used As Thinning, Cleaning Agents. Thinning, reducing, cleaning agents, etc.; required in conjunction with the application of a protective coating, are not entered in the parts list.

10.7 DRAWING APPLICATION.

10.7.1 Detail Drawings. (See FIGURE 10-5.)

10.7.1.1 "QUANTITY REQUIRED" Columns. These columns are left blank. When a bulk item is required, the letters "AR" (for "As Required") are inserted to signify usage of a quantity that cannot be exactly defined. See PARAGRAPH 10.7.3.1.4. When explosives are called out in the parts list, the maximum amount is entered in the "quantity required" column. "As required" shall not be used for explosives.

10.7.1.2 "COMMERCIAL AND GOVERNMENT ENTITY" (CAGE) Column. No call out required, except when purchased bulk items (such as primer, paint, etc.) are listed in the parts list. CAGE Code Column entry is omitted when the parent company is the Design Activity. See FIGURES 10-5, 10-8,10-9 and 10-10.

10.7.1.3 "PART OR IDENTIFYING NUMBER" Column. Enter the parent company part number's odd suffix identifier (dash) number or bulk item identification number. See SECTION 7 PARAGRAPH 7.9.1 and FIGURE 10-5. When a bulk item without an identification number is also required, this column is left blank opposite the bulk item. See FIGURES 10-5, 10-8, 10-9 and 10-10.

10.7.1.4 "NOMENCLATURE OR DESCRIPTION" Column. Enter the assigned noun or noun phrase of the item whose identifying number appears in the Part or Identifying Number Column. See PARAGRAPH 10.7.1.3. And FIGURES 10-5 thru 10-12.

10.7.1.5 "MATERIAL" Column. The material name shall be entered and the type designation may be listed when not part of the specification column. List stock size and form only when required by design. See FIGURES 10-5, 10-6, 10-7, 10-8 and 10-10.

e.g.,

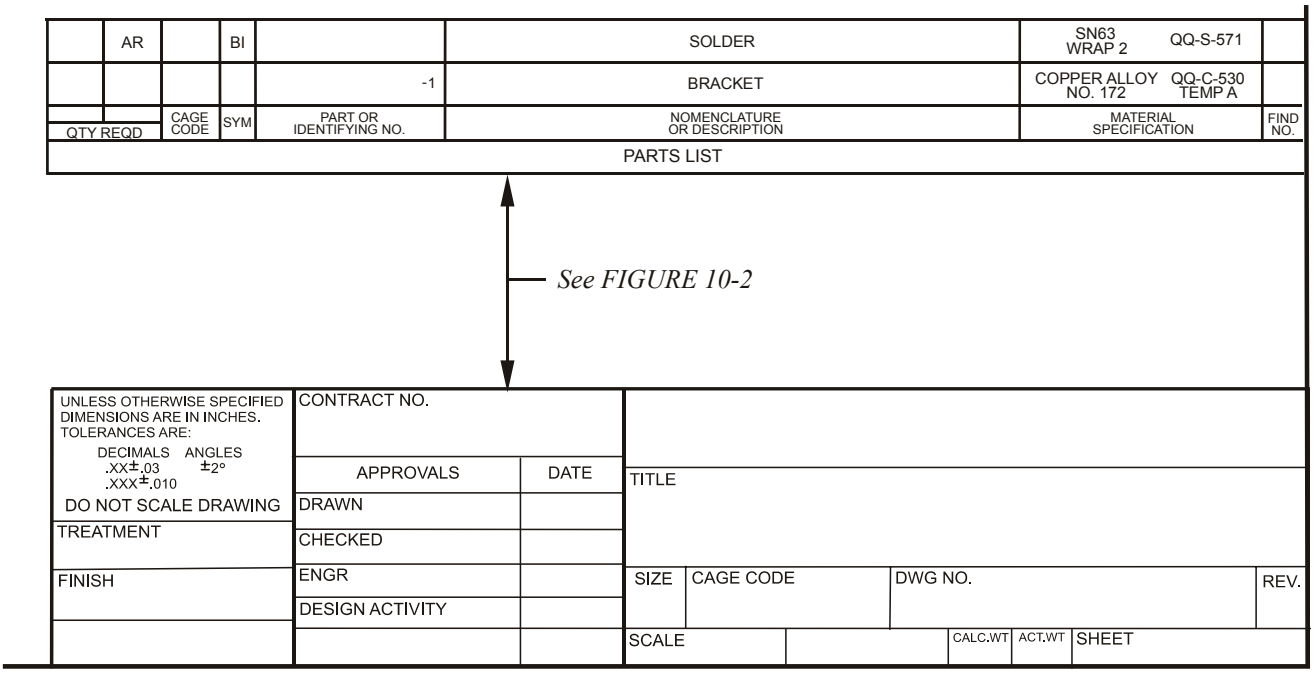
a. CRES 321

b. AL ALLOY 2024-T4 .25 THK PLATE

c. CRS - 1020

When bulk items of supplier items are used, this column may be used for trade names of material and/or material identification numbers. See FIGURE 10-10.

10.7.1.6 "SPECIFICATION" Column. Call out complete material specification information as required. The call out shall include the "grade, condition, class, etc.," as required. See FIGURES 10-5, 10-6, 10-7, 10-8 and 10-10.



PARTS LIST FOR DETAIL DRAWING.
FIGURE 10-5

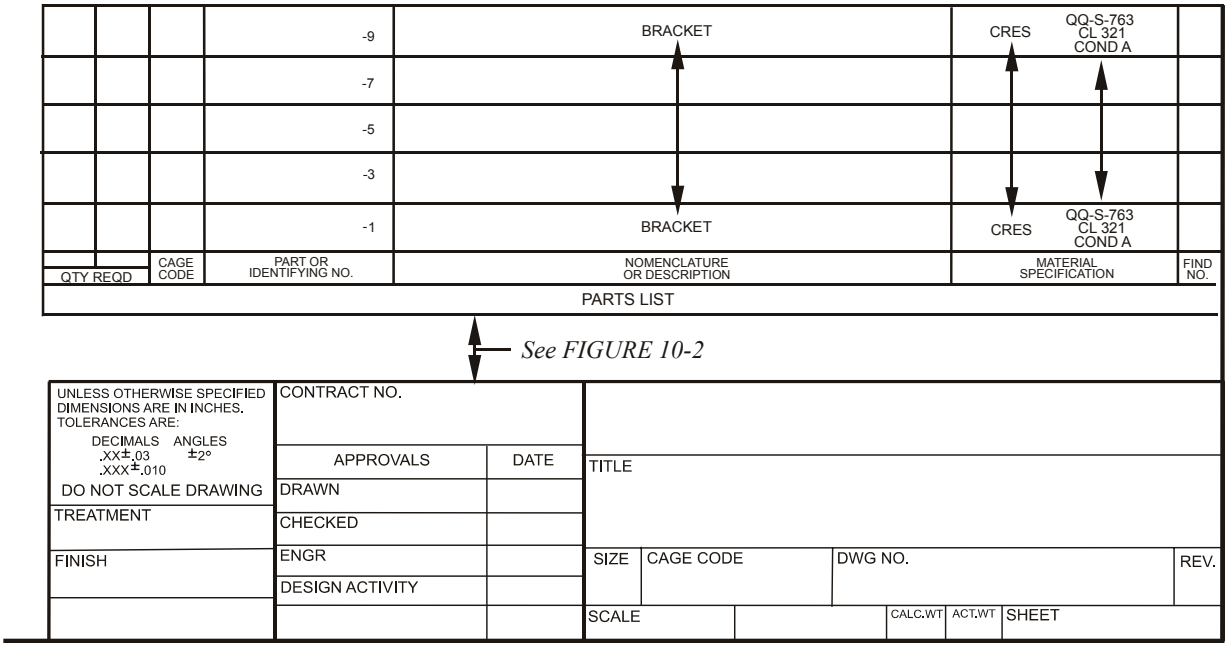
10.7.1.7 "UNIT WEIGHT" Column. This column contains the actual weight (or calculated weight if actual weight is unknown). This column is shown and filled in only when directed by the responsible engineer. See FIGURE 10-2.

10.7.1.8 "ZONE" Column. No callout required. Use is optional.

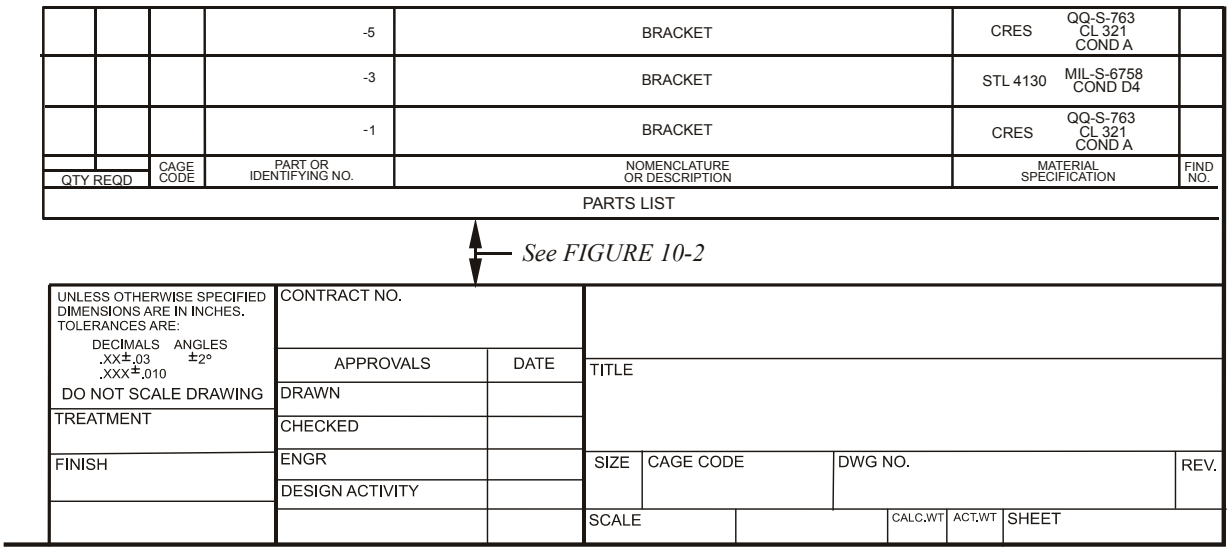
10.7.1.9 "FIND" NUMBER Column. No callout required. Use is optional.

10.7.2 Tabulated Drawing.

10.7.2.1 Column Entries. Column entries are the same as for detail drawings except for entering in the part number column. List only the part suffix identifier (dash) numbers in ascending order (e.g., -1, -3, -5, -7, -9, etc.). See SECTION 7, PARAGRAPH 7.9.4.1 and FIGURES 10-6, 10-7, 10-8, 10-10 and 10-13.



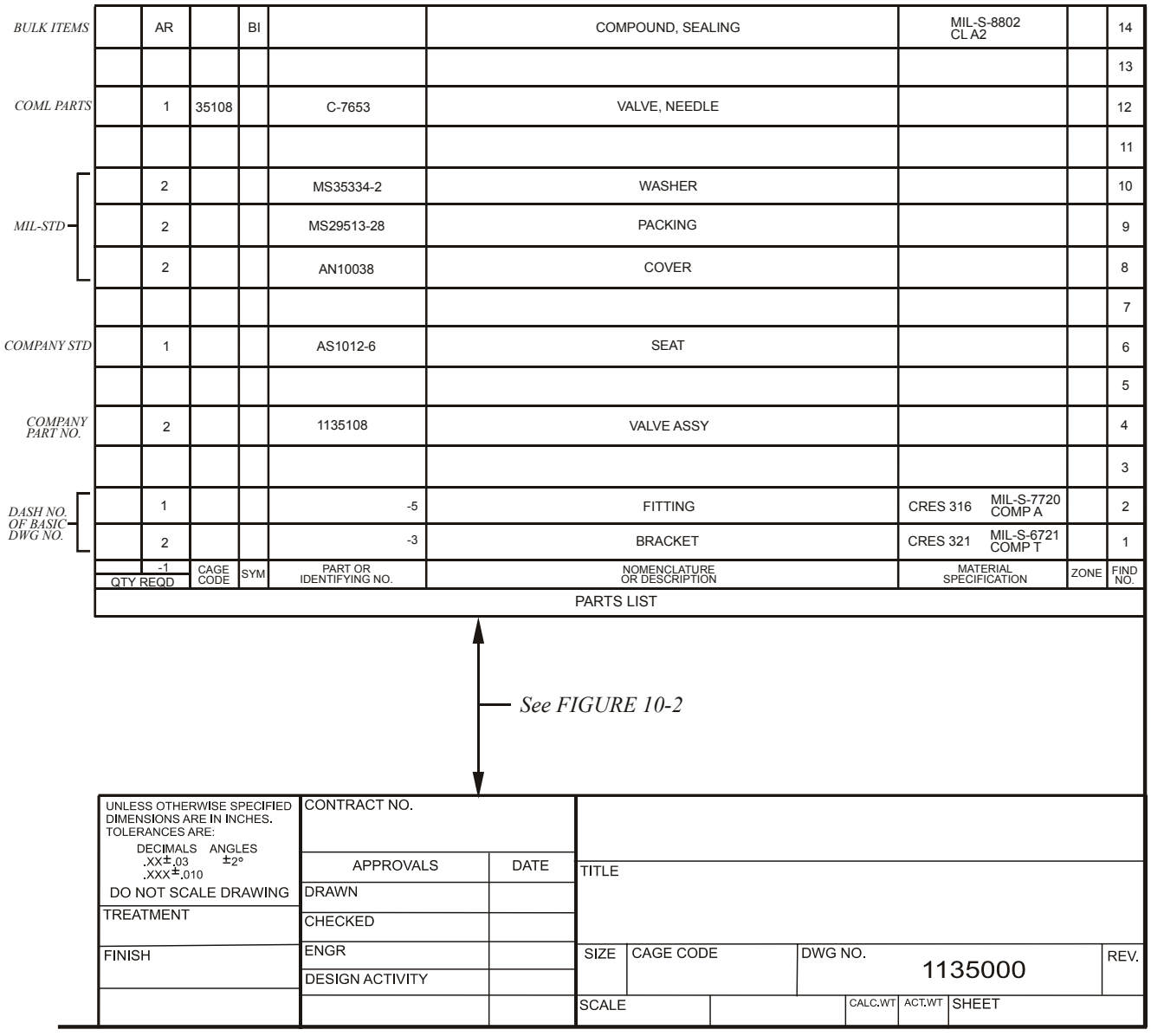
PARTS LIST FOR TABULATED DETAIL DRAWING, IDENTICAL MATERIALS.
FIGURE 10-6



PARTS LIST FOR TABULATED DETAIL DRAWING, DIFFERENT MATERIALS.
FIGURE 10-7

10.7.3 Assembly Drawings. See FIGURES 10-8, 10-9, 1-10 and 10-11 and SECTION 7, PARAGRAPH 7.9.3.2.

10.7.3.1 "QUANTITY REQUIRED" Column. Insert the assembly suffix identifier (dash) number in right hand column. Each parts list entry reflects the quantity required for one assembly. See FIGURE 10-8.



PARTS LIST FOR ASSEMBLY DRAWING.
FIGURE 10-8
(Also see FIGURE 10-10.)

10.7.3.1.1 "SHOWN AND OPPOSITE ASSEMBLY QUANTITY REQUIRED" Column. For "Shown" and "Opposite" assembly drawings, insert assembly dash numbers in right and left hand columns. Each column reflects the "quantity required" of each parts list entry to make one assembly. See FIG. 10-9 & SECTION 7, FIGURE 7-2.

-2 QTY REQD	-1 QTY REQD	CAGE CODE	SYM	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	ZONE	FIND NO.
4	4			MS35456-23	SCREW, CAP		1 4C	11
4	4			MS20365-428A	NUT, SELF LOCKING		1 4C	10
1	1			MS9014-11	RING		1 4C	9
								8
1	1			AN122584	WASHER		1 4C	7
								6
2	2			AS1118DZ-118	PACKING		1 4C	5
								4
1				256781-2	HOUSING		1 3B	3
	1			256781-1	HOUSING		1 3B	2
2	2			256780-1	PLUNGER		1 3A	1

PARTS LIST

See FIGURE 10-2

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS .XX±.03 .XXX±.010 ANGLES ±2°	CONTRACT NO.	
DO NOT SCALE DRAWING	APPROVALS / DATE	TITLE
TREATMENT	DRAWN	
	CHECKED	
FINISH	ENGR	SIZE / CAGE CODE / DWG NO. 256750 / REV.
	DESIGN ACTIVITY	
		SCALE / CALC.WT / ACT.WT / SHEET

PARTS LIST FOR SHOWN AND OPPOSITE ASSEMBLY.
FIGURE 10-9

10.7.3.1.2 "MULTIPLE ASSEMBLY QUANTITY REQUIRED" Column. For multiple assembly drawings, insert the suffix identifier (dash) number of the lowest numbered assembly in the right hand column and progress to the next numbered assembly in sequence, making all entries to the left of the original entry. The entry of "quantity required" of each parts list entry appears in the column headed by its assembly suffix identifier (dash) number. See FIGURE 10-10.

10.7.3.1.3 Multiple Assembly Suffix Identifier (Dash) Number Assignment. When subassemblies are detailed on parent assembly drawings, the suffix identifier (dash) number of the subassembly is entered in the next open "Quantity Required" column. The parts list entries required to make one subassembly are reflected in this column. See FIGURE 10-10.

-7	-5	-3	-1	CAGE CODE	SYM	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	ZONE	FIND NO.
		QTY REQD								
	1			VICD		408151	ACTUATOR	VENDOR ITEM: SEE VENDOR ITEM CONTROL DRAWING(VICD)	2 5 C	25
		1		SOCD		408150-1	ACTUATOR	VENDOR ITEM: SEE SOURCE CONTROL DRAWING (SOCD)	2 5 C	24
			1	SOCD		408149-1	ACTUATOR	VENDOR ITEM: SEE SOURCE CONTROL DRAWING (SOCD)	2 5 C	23
AR				37124	B1	1202	LACQUER	GLYPTAL CLEAR GC-136		22
AR				64112	B1		PRIMER COATING	PRIMER PIGMENT SURESEAL		21
	AR	AR	AR	36131	B1	815	ADHESIVE	EPOXY RESIN		20
	EST	EST	EST		B1	MS20995C32	LOCKWIRE 98.0 INCHES		1 4 C	19
AR					B1		WELD ROD	CRES 347 MIL-R-5031 CLASS 5A		18
	1	1	1	41161	PP	BZ-2RL	SWITCH, FLEXIBLE LEAF	MICROSWITCH CO.	1 3 C	17
										16
	1	1	1			MS28720-8	FILTER		1 3 D	15
	1	1	1			AN944-103	FITTING		1 3 B	14
										13
										12
										11
										10
	1	1	1			408148-1	ELBOW		1 3 B	9
	1	1	1			408147-1	FLANGE		1 3 B	8
										7
						-19	FLANGE	CRES 347 MIL-S-6721 COMP Cb	2 6 B	6
2						-17	GUSSET		1 4 C	5
1						-15	SUPPORT	CRES QQ-S-763 CL 321 COND A	1 4 C	4
		1	1			-13	EXTENSION	CRES MIL-P-1144 TYPE 1, CL 3 COMP 316	1 3 C	3
	1	1	1			-11	ELBOW		1 3 B	2
	1	1	1			-9	BRACKET ASSY		1 2 C	1

PARTS LIST

See FIGURE 10-2

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS .XX±.03 .XXX±.010 ANGLES ±2°	CONTRACT NO.		
DO NOT SCALE DRAWING	APPROVALS	DATE	TITLE
TREATMENT	DRAWN		
	CHECKED		
FINISH	ENGR		SIZE / CAGE CODE / DWG NO. 408100 / REV.
	DESIGN ACTIVITY		
			SCALE / CALC.WT / ACT.WT / SHEET

PARTS LIST FOR MULTIPLE ASSEMBLY DRAWING.
FIGURE 10-10

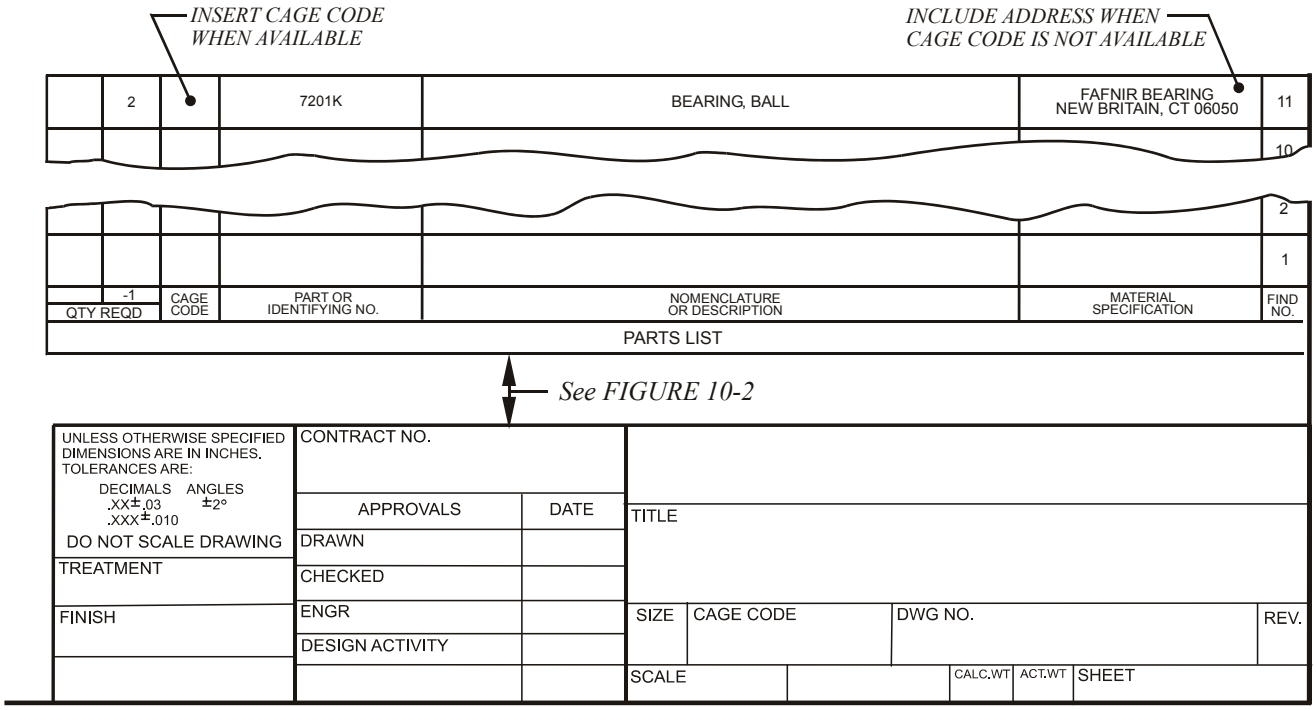
10.7.3.1.4 Multiple Assembly Quantity Required For Bulk Items. The quantity for bulk items may be indicated as "AR" (As Required) under the following conditions, provided the item is not normally subject to replacement as a spare part:

a. The amount required is less than one of the smallest applicable units of measure.
b. The amount required is indeterminate because of variations in manufacturing or tooling.

10.7.3.1.5 Items Used By Weight Or Volume. Items that are used by weight or volume may be called out as such or "AR" (As Required).

10.7.3.1.6 Vendor Item Control Drawing (VICD) and Source Control Drawing (SOCD). When vendor item control or source control drawings are used (in accordance with ASME Y14.100 and Appendix D) and it is necessary to refer to the articles depicted thereon on the next assembly, another applicable drawing or list, reference shall be made to the VICD or SOCD number on the field of the assembly drawing and in the part or identifying number column of the assembly parts lists. For vendor item control drawings such reference shall be accompanied by the following note placed in the Material Specification Column: "VENDOR ITEM: SEE VENDOR ITEM CONTROL DRAWING", or "VENDOR ITEM: SEE SOURCE CONTROL DRAWING", whichever is applicable. See FIGURE 10-10.

10.7.3.2 "COMMERCIAL AND GOVERNMENT ENTITY" (CAGE) Code Column. This column lists the design activity's identification code for each item without a identification code common to the parent drawing. It is a mandatory column except when on non-government contracts or where the contractor uses only his own part numbers or part numbers which do not require CAGE Code identification. e.g., Government Standard Parts. For identification code, see Handbooks H4-1 and H4-2. The supplier's name and address may also be specified in addition to the supplier's identification code. When no identification codes are available, show supplier's name and address in the parts list as shown in FIGURE 10-11. The Commercial and Government Entity (CAGE) Code for manufactures listed in this column applies to the part whose part or identifying number appears in the part number column.



PARTS LIST ENTRY FOR COMMERCIAL PRODUCT.
FIGURE 10-11
(NOTE: Figure represents only the subject being treated.)

10.7.3.3 "PART OR IDENTIFYING NUMBER" Column.

10.7.3.3.1 Parts List Entry Groupings. The identifying number of the item is entered as applicable. See PARAGRAPH 10.6.5 for types and order of precedence.

10.7.3.3.2 Parent Part Numbered Suffix Identifier (Dash) Number Entry. When entering suffix identifier (dash) numbered parts of the parent drawing, the parent drawing number is omitted and only the suffix identifier (dash) number entered. Parts originated elsewhere than the parent drawing must have the complete part number entered. See FIGURES 10-4 thru 10-8, 10-10 and 10-13.

10.7.3.3.3 Standard Government, Industry or Company Part Number Entry. When a standard part number is entered, all identifying letters and/or numbers are called out. See FIGURES 10-8, 10-9 10-10 and 10-13.

10.7.3.3.4 Vendor Bulk Item Entry. For Vendor developed bulk items, enter applicable manufacturer's CAGE Code in CAGE Code Column with Part or Identifying number in Description Column and formula number in Material Specification Column, when they exist. See FIGURES 10-10 and 10-13.

10.7.3.3.5 Customer Furnished and Controlled Items. See PARAGRAPH 10.9 and FIGURE 10-12.

10.7.3.4 "NOMENCLATURE OR DESCRIPTION" Column.

10.7.3.4.1 Suffix Identifier Dash Numbered Parts Of Parent Drawing. Determine and enter a basic name for each part or subassembly per SECTION 8. e.g., "BRACKET". See FIGURES 10-4 thru 10-8, 10-10 and 10-13.

10.7.3.4.2 Other Company Numbered Parts. List only the basic name of the part as it appears on the drawing where it is detailed. Modifiers are not entered unless necessary for clarity. See FIGURE 10-10, FIND No. 17.

10.7.3.4.3 Military Standard Parts (MS, AN) And Other Industry And Company Standard Parts. List basic name only of the part as it appears on standard sheet, omitting the modifiers. See FIGURES 10-8, 10-9, and 10-10.

10.7.3.4.4 Commercial Parts. See PARAGRAPH 10.8.

10.7.3.4.5 Customer Furnished And Controlled Items. See PARAGRAPH 10.9 and FIGURE 10-12

10.7.3.4.6 Other Parent Company Parts. List basic name only. See FIGURE 10-10.

10.7.3.4.7 Standard Parts. List basic name only. See FIGURES 10-8, 10-9, and 10-10.

10.7.3.4.8 Commercial Parts. List basic name only.

10.7.3.4.9 Bulk Item. List basic name only.

10.7.3.5 "SPECIFICATION" Column.

10.7.3.5.1 Suffix Identifier (Dash) Numbered Parts Of Parent Drawing. List the material specification information as required per the specification. See FIGURES 10-5, 10-6, 10-7, 10-8 and 10-10.

10.7.3.5.2 Other Parent Company Numbered Parts. No entry required. See FIGURES 10-8, 10-9 and 10-10.

10.7.3.5.3 MS, AN, and OTHER STANDARD PARTS. No entry required. For electronic parts such as resistors, capacitors, etc., this column may be used for helpful information in the form of ratings, values, tolerances, etc. See FIGURES 10-8, 10-9 and 10-10.

10.7.3.5.4 Commercial Parts And Other Design Activity Numbered Parts. Use space, if needed, for additional information such as name of manufacturer, reference to control drawings, etc. See PARAGRAPH 10.8 and FIGURES 10-10 and 10-11.

10.7.3.5.5 (BI). Enter specification, if required. Also may be used for trade name entry. See FIGURE 10-10.

10.7.3.6 "UNIT WEIGHT" Column. When directed by the responsible engineer, the unit weight is listed in a column located to the right of the Parts List (PL). See FIGURE 10-2.

10.7.3.7 "ZONE" Column. This column may be used for indicating the zero location of the specific detail or subassembly callout on the field of the drawing See FIGURES 10-2, 10-9 and 10-10.

10.7.3.8 "FIND (ITEM) NUMBER" Column. This column, utilized only on assembly drawings, contains the numbers assigned to the line entries in numerically ascending order, e.g., 1, 2, 3, etc. No number may be omitted or removed. See FIGS. 10-8, 10-9, & 10-10.

10.8 COMMERCIAL PRODUCTS.

10.8.1 Commercial Product Entry Commercial products are specified on drawings as Follows:

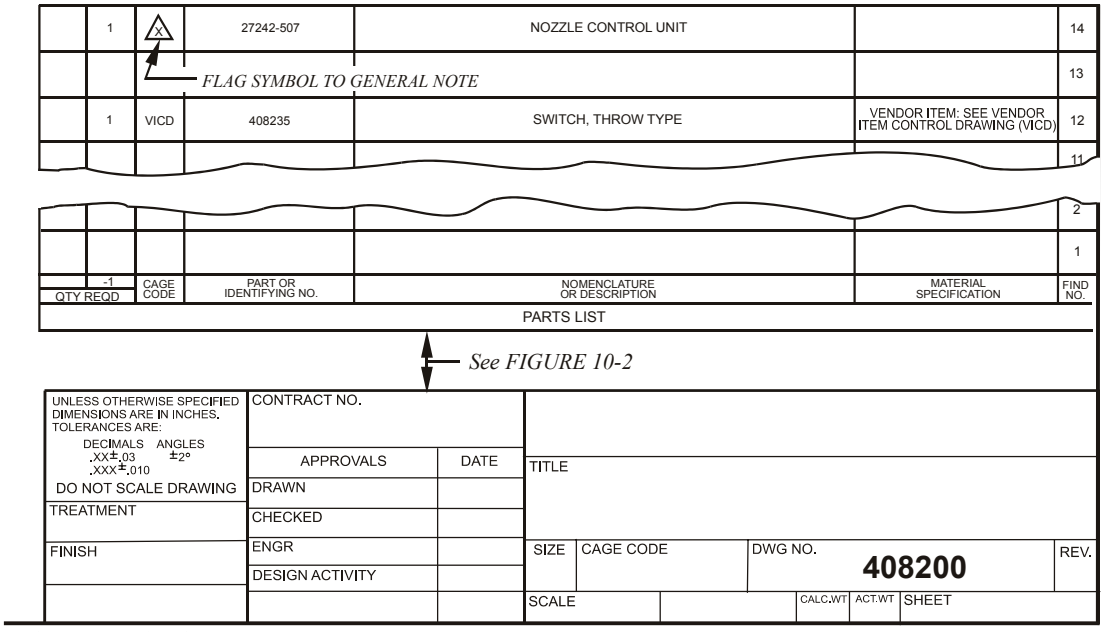
a. On Assembly Drawings. See FIGURE 10-10, Find No. 17.
b. On Vendor Item Control Drawings (VICDs) formerly Specification Control Drawings (SCDs) See FIGURE 10-10 and SECTION 4.
c. On Source Control Drawings (SOCDs). See FIGURE 10-10 and SECTION 4
d. On Altered or Selected Item Drawings. See SECTION 4.

10.9 CUSTOMER FURNISHED AND CONTROLLED ITEMS.

10.9.1 Customer Furnished Parts. Parts which are furnished by the customer and cannot be controlled by company documentation are subject to the following procedure.

10.9.1.1 Customer Furnished And Controlled Parts List Entry. Customer Furnished and Controlled Items should appear at the top of the parts list, last in the order of sequence. See FIGURE 10-12.

10.9.2 Vendor Item Control And Source Control Parts List Entry. Parts which are governed by Vendor Item Control Drawings (VICD) (formerly called Specification Control Drawings (SCD)) or Source Control Drawings (SOCD) appear in the parts list as shown in FIGURES 10-10 and 10-12.



GENERAL NOTES:

X CUSTOMER FURNISHED AND CONTROLLED, AUTONETICS DIV., CAGE CODE _ _ _ _ _
ROCKWELL INTERNATIONAL, LOS ANGELES, CA 91235.

PARTS LIST ENTRY FOR CUSTOMER FURNISHED AND CONTROLLED ITEMS.
FIGURE 10-12

(NOTE: Figure represents only the subject being treated.)

10.10 PARTS LIST (PL) FOR CONCEPTUAL DESIGN DRAWINGS. See FIGURE 10-13

10.10.1 Controls. Minimum controls are required.

10.10.2 Specifications. Materials and process specifications may be omitted.

10.10.3 Commercial Quality. Hardware is described as commercial quality.

10.10.4 Substitutes. Substitutes are left to the discretion of production.

QTY REQD	CAGE CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	ZONE	FIND NO.
			PARTS LIST			
-1						
1		-3	PLATE	AL 6061-T6		1
1		-5	PANEL	AL 6061-T6		2
						3
8			SCREW, PAN HEAD	8-32 X .50 LG CAD PL STL		4
8			NUT	NO. 8 CAD PL STL		5
						6
3		RC076F100J	RESISTOR			7
1		IN726A	DIODE			8
						9
1		8001A-2	TERMINAL BOARD	USECO OR EQUIV		10
						11
						12
AR				NYLON JACKETED, WHITE, 22 AWG		13
			WIRE STRANDED			14
AR			SOLDER	SN63 WRAP QQ-S-571		15

See FIGURE 10-2

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS .XX±.03 .XXX±.010 ANGLES ±2°	CONTRACT NO.		
DO NOT SCALE DRAWING	APPROVALS	DATE	TITLE
TREATMENT	DRAWN		
	CHECKED		
FINISH	ENGR		SIZE / CAGE CODE / DWG NO. 408100 / REV.
	DESIGN ACTIVITY		SCALE / CALC.WT / ACT.WT / SHEET

PARTS LIST FOR CONCEPTUAL DESIGN DRAWING ONLY.
(FORMERLY LEVEL 1 AND BEFORE THAT, FORM 3.)
FIGURE 10-13

10.11 GENERAL REQUIREMENTS FOR MANUALLY PREPARED "PARTS LIST" (PL) SEPARATE FROM THE DRAWING.

10.11.1 Separate Parts List Use Authorization. A separate parts list shall be made when contractually required. In doing so, the following requirements and procedures are to be followed:

10.11.2 Format.

10.11.2.1 Company Forms Used For Manual Prepared Separate Parts List. Company forms are used when preparing a manual parts list separate from drawings (See FIGURE 10-14), except when using automatic data processing techniques.

10.11.2.2 Title (Top) Sheet For Manual Prepared Separate Parts List. A title sheet, when used, will be Page 1 of all Parts Lists (PL) (see FIGURES 10-15 and 10-15M). The title sheet may contain signatures, revision record of reissue of multiple sheets in their entirety and “Notes”. “Next Assembly” and “Used On”, columns are left blank and are entered beginning on sheet 2.

10.11.3 Limitations For Separate Parts List.

10.11.3.1 End Product Assembly. Assemblies listed on Parts lists separate from the drawing should be limited to end product assemblies.

10.11.3.2 Single Drawing Separate Parts List. Multi-assemblies are not recommended on a single drawing when a Separate Parts List is required.

10.11.3.3 Parts List Requirement For Each Level Of Assembly. If Parts Lists are required, a Parts List shall be prepared for each assembly regardless of the level on which the assembly is used within the equipment or system.

10.11.4 Identification. Parts lists separate from drawings are identified by a document number including the basic drawing number preceded by the prefix "PL." Assemblies requiring separate identification should have different "PL" identifications including "shown" and "opposite" assemblies, e.g., PL1234567-1, PL1234567-2.

10.11.5 Cross Reference to a Separate Parts List. When the parts list is separate from the drawing, a reference to the parts list document is made with a note in the parts list area. See FIGURE 10-1.

Example: SEE SEPARATE PARTS LIST.

10.11.5.1 Cross Reference to Include Application List (AL). When application data is included on the a separate parts List (PL), the note shall be expanded to read;

Example: SEE SEPARATE PARTS LIST FOR PARTS AND APPLICATION DATA.

10.11.6 Parts List (PL) Entries.

10.11.6.1 Order Of Precedence. Items are entered in separate parts lists starting at the top of the list and proceeding downward. The items should be listed in the order prescribed by PARAGRAPH 10.6.5.

10.11.6.2 Entries. Entries are made by computer, hand lettering or typing. Blank spaces may be left in the parts list between the category groupings to allow for later additions. Find (Item) numbers are assigned to each line whether an item is listed on the line or not. Horizontal separating lines between item entries are not mandatory. When separating lines are used, the spacing will be suitable for the height of the entry; no standard increment is required. New or superseding items may be either added chronologically in the list or added at the end of the list. Initial sequence need not be maintained after list revision. Entries are made in the blocks and columns of the Parts List (FIGURE 10-14) and listed as follows:

BLOCK 1, DESIGN ACTIVITY (Optional)) Block. The original design activity of a Government procurement activity or the name and address of the Contractor (or design activity) whose Commercial and Government Entity (CAGE) Code appears in block 2 shall be entered.

BLOCK 1(a), CONTRACT NUMBER (Optional) Block. Enter contract number under which the list is initially prepared Subsequent contract numbers to which the list may apply may be omitted from this block.

BLOCK 2, CAGE CODE (Optional) Block. Enter the Commercial and Government Entity Code designating the original design activity whose CAGE Code (if applicable) assigned to the associated drawing appears on all sheets.

BLOCK 3, ORIGINAL DATE (Mandatory) Block. Enter the date the Parts List was originally released. Express the date by YR-MO-DAY e.g. 94-06-21

BLOCK 4, PARTS LIST (PL) NUMBER (Mandatory) Block. Enter the identifying number of the assembly drawing prefixed with the letters PL to which the list applies on each sheet of the list.

BLOCK 5, REVISION (Mandatory). See SECTION 23 herein.

BLOCK 6, LIST TITLE (Optional) Block. On sheet 1 enter the basic noun or noun phrase from the title of the drawing to which the list applies. When more than a single sheet is required to prepare or revise a list, the list title may be shown on each sheet; however, it is required only on the first sheet.

BLOCK 7, END ITEM or SYSTEM DESIGNATOR (Mandatory). Enter the end item or system designator to which the list applies. When no designator has been assigned, the top assembly part number of the end item shall be entered.

BLOCK 8, APPROVAL SIGNATURE (Optional) Block). An approval signature, hand written or lettered, is entered in this block or cover sheet if used, at initial release of manually prepared lists. Signatures are not required on subsequent sheets or when entered on an optional cover sheet. Signatures are not required for machine (ADPS) prepared lists or may be mechanically printed.

BLOCK 9 REVISION AUTHORIZATION NUMBER (Mandatory) Block. The number of the revision authorization document, Drawing Change Notice (DCN), shall be entered when a revision description or revision record is not provided.

BLOCK 10, SHEET NUMBER (Mandatory) Block. Enter the appropriate sheet number on each sheet. The total number of sheets in the list shall be specified on the first sheet only. On Automatic Data Processing Systems (ADPSs) prepared sheets, the first or last sheet shall indicate the total number of sheets. Sheets 2, 3, etc., shall bear a sheet number only in this block.

e.g. SHEET 1 OF 6 - *First Sheet*
SHEET 3 - *Third Sheet*

COLUMN 11, FIND NUMBER (Optional) Column. When find numbers are used to identify items on the field of the drawing, enter the assigned find number for each item. If find numbers are not used on the field of the drawing, this column may be omitted. Reference designations per IEEE 200 and IEEE 315/315A may be used as find numbers.

COLUMN 12, QUANTITY REQUIRED (Mandatory) Column. Enter the number which denotes the exact quantity or amount of each item required to complete a single article of the item to which the list applies. The symbol "AR" (As Required) may be used in lieu of the exact quantity of bulk materials (such as solder, oil or grease). When the exact quantity of a bulk material is expressed, enter the unit measure in this column or in column 13, if used. Symbols other than "AR" may be used for other conditions, provided that they are explained by an appropriate note at the end of the list or referenced to an explanatory document furnished in the set of engineering data.

COLUMN 13, UNIT OF MEASURE (Optional) Column. When the exact quantity of a bulk material is expressed in column 12, the unit of measure may be entered in this column in lieu of making the entry in column 12. If this column is not used, it may be omitted.

COLUMN 14 COMMERCIAL AND GOVERNMENT ENTRY (CAGE) (When Applicable) Column. Enter the appropriate CAGE Code assigned to the original design activity whose part or identifying number appears in Column 15. When a Government or Industry standard part or specification number appears in Column 15, no entry need be made in Column 14. When the CAGE Code for an item is identical to that entered in Block 2, it is not necessary to repeat the Code in Column 14.

COLUMN 15, PART OR IDENTIFYING NUMBER (PIN) (Mandatory) Column. Enter the part number and suffix identifier (dash) number (when applicable) for each item on the Parts List (PL) and bulk material. When the identifying number applies to an item detailed on the engineering drawing with which the list is associated, and a suffix identifier system is used, only the suffix identifier need be entered. When the item is controlled by a MILITARY STANDARD, enter the MS or AN number (MS25630C416, AN360B6). When controlled by a MILITARY SPECIFICATION and individually identified by a designation (such as RC20GF031J or MR25W010DCUA), enter this designation. When type, grade, class, condition, etc. are required for identification, such information may be entered in this or another appropriate column. When the part or identifying number exceeds 15 characters, it may be entered in the nomenclature or description column, or may be reidentified using an Identification Cross Reference Drawing. When several items from the same tabulated drawing appear consecutively on the list, the complete identifying number shall be recorded for each entry. A line, arrow, or ditto marks may be used between the identical portions of the first and last entries. See FIGURE 10-6. When the use of substitute/alternate parts are acceptable and listed. See PARAGRAPH 10.6.6.4 and FIGURE 10.4.1.

COLUMN 16, DRAWING OR DOCUMENT NUMBER (Optional) Column. When this column is used, the following may be entered.

a. The document number applicable to the material from which a listed part delineated on the corresponding drawing is fabricated.

b. The document number applicable to a listed item for which a type designation, class condition, etc. has been entered in Column 15.

c. The drawing number applicable to a listed item in column 15.

COLUMN 16a, DRAWING SIZE (Optional) Column. When this column is used, enter the drawing size letter. No letter size is required for Military Specifications and Standards and book form documents.

COLUMN 17, REVISION LETTER OR ISSUE SYMBOL (Mandatory) Column. Enter the latest revision letter or issue symbol applicable to the document whose number appears in Column 16.

NOTE: When revision symbols applicable to specific configuration identifications are maintained and provided as required through ADPS or EAM systems, the use of COLUMN 17 is optional.

COLUMN 18, SHEET NUMBER (Mandatory) Column. Book-form and multi-sheet drawings recording revision status on sheet one (1) need only record total number of sheets in this Column. Drawings recording revisions on sheets affected shall have each sheet listed. However, specifications and standards shall not have total number of inclusive sheets listed.

COLUMN 19, NOMENCLATURE OR DESCRIPTION (Mandatory) Column. The assigned noun or noun phrase shall be entered describing the item whose part or identifying number appears in Column 15.

COLUMN 20, WEIGHTS OF UNITS AND ASSEMBLIES (Optional) (Mandatory Column for Ship Construction Drawings). Parts lists for ship construction drawings shall list the unit weight for each distinct component, except for the following bulk items: steel, insulation, piping, pipe fittings, valves under 50 pounds (22 kg), electrical cable, electrical fittings, and other standard items or hardware. See SECTION 4 for Ship Equipment Drawing.

COLUMN 21, NUCLEAR HARDNESS CRITICAL ITEMS (Mandatory) Column. Enter the type of information as specified in SECTION 9, PARAGRAPH 9.7.21.

COLUMN 22, SUPPLEMENTAL LIST (Optional) Column. A supplemental list column may be included in which "X" entries are made in line with each item (assembly) that has its own associated list.

COLUMN 23, NOTES (Optional) Column. For referencing notes elsewhere to clarify the line entry. Notes may be identified by letters, codes or symbols.

For Example: 

= DRAWING FLAGNOTE TEXT.

COLUMN 24 , REVISION LETTER (Mandatory) Column. Parts List shall include a Revision History Block at the bottom of the applicable list per FIGURE 10-14. Entries for revision letter, description, date and approval would be made in accordance with SECTION 23 of this DRM. A description of every change, addition or deletion processed shall be recorded either on a sheet of the affected list or on a separate revision notice referred to as a Document Change Notice (DCN). When the list is initially released, enter a dash (-) and release date on each sheet of the list. Each time a sheet of the list is revised, enter the appropriate Revision Letter and revision date on the revised sheet. When the revised list is reissued in its entirety, a new revision letter shall be entered on all sheets, including those that have not been revised. When an optional cover sheet is used, the release date need be entered on that sheet only. Separate parts lists are changed independently from the applicable drawings. There is no requirement that the drawing and a separate PL maintain the same revision letter.

COLUMN 25, DESCRIPTION/AUTHENTICATION (Mandatory) Column. A brief description of the change or a reference to the identity of the revision authorization document describing the change. (DCN or NOR).

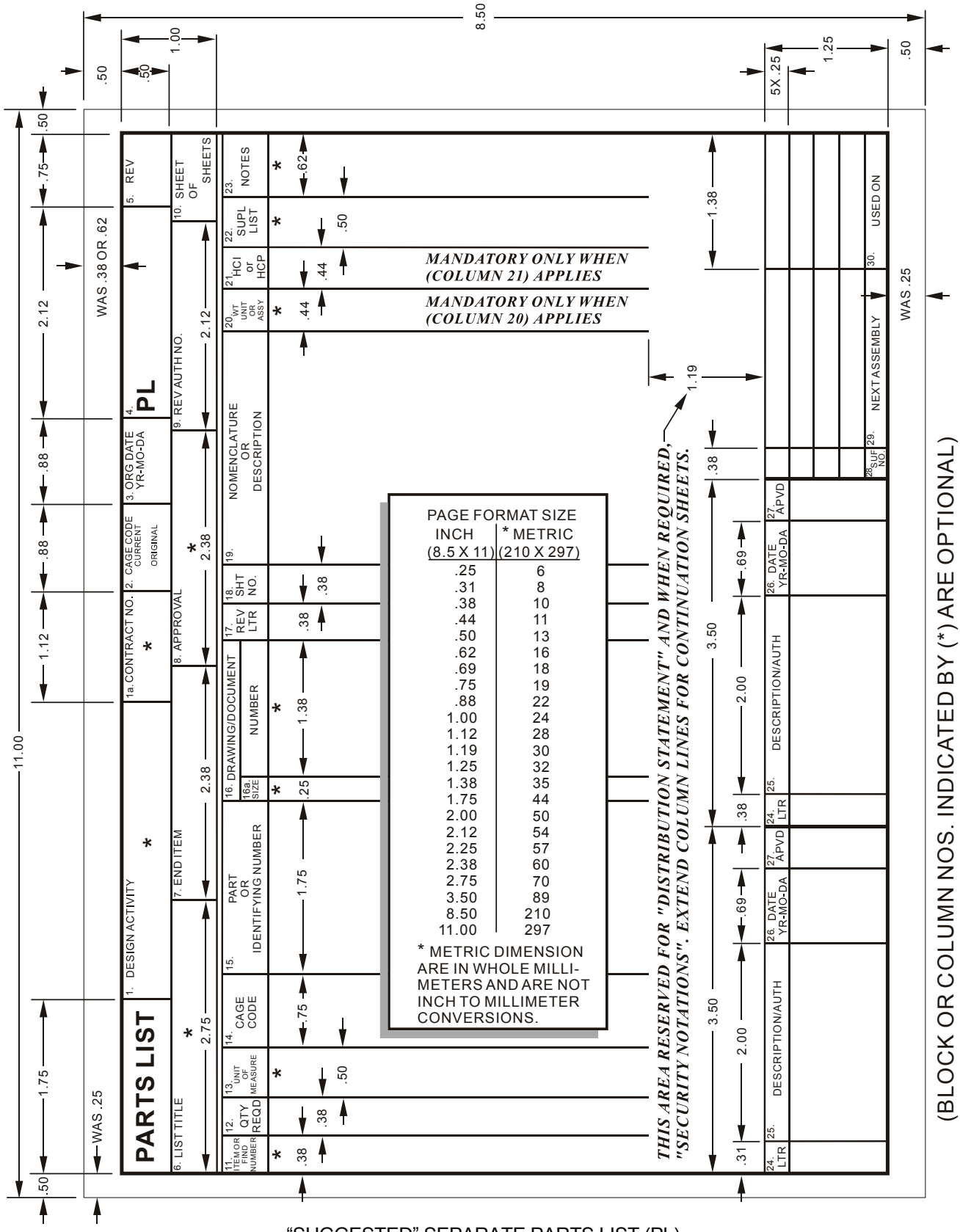
COLUMN 26, DATE (Mandatory) Column. Date entered at time approval column 27 is entered. Date shall be entered as YR-MO-DAY. e.g. 94-06-21

COLUMN 27, APPROVED (Mandatory) Column. Certification of revision shall be entered in the Approval Column and date entered in the Date Column 26.

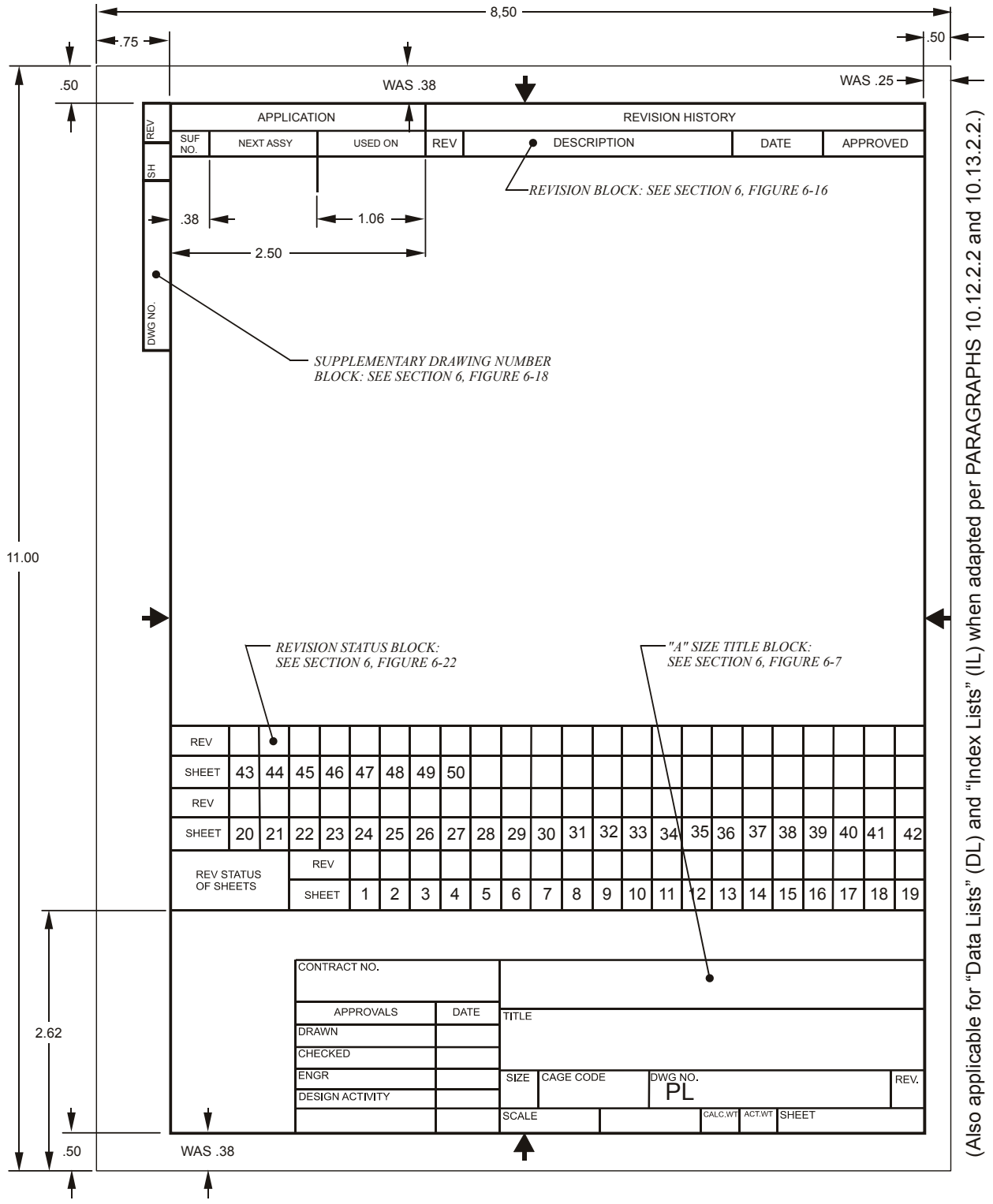
COLUMN 28, Suffix (DASH) NUMBER (Mandatory When Application List (AL) is Used) Column. Enter the suffix identifier (dash) for each item detailed or assembled on the engineering drawing which is a component of an assembly detailed on another drawing. When the item is identified on the engineering drawing by an identifier suffix (dash) system, only that suffix need be entered.

COLUMN 29, NEXT ASSEMBLY (Mandatory When Application List (AL) is applied)) Column. Enter the part number of the engineering drawing detailing the next assembly of which the item is a component. When the drawing depicts the final deliverable item, enter the word "FINAL". When a Title (Top) Sheet is used, the "Next Assembly" column may be used in lieu of column 29 of the Parts List (PL).

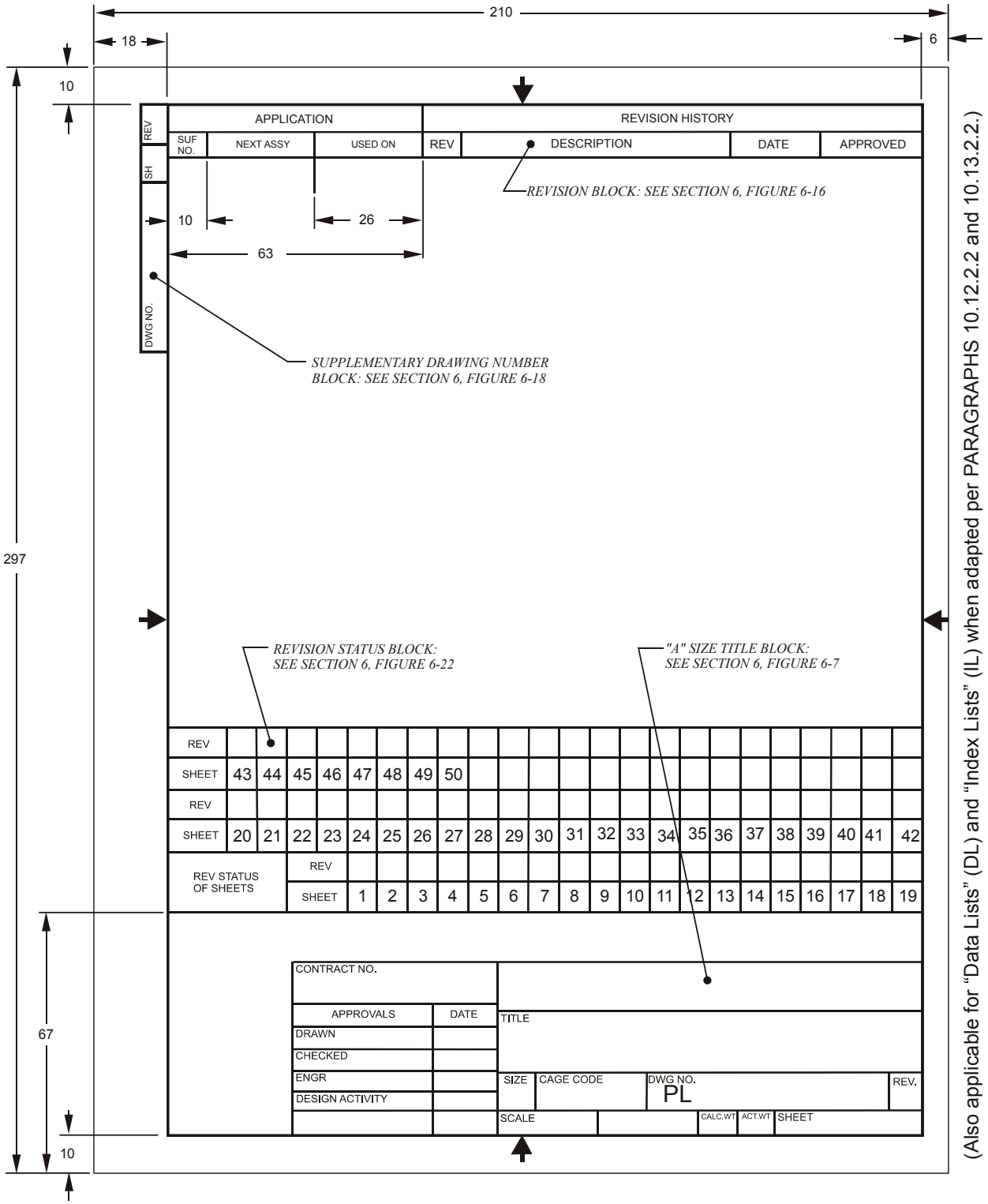
COLUMN 30, USED ON (Mandatory When Application List (AL) is Applied) Column. Enter the model number or other designation of the assembled unit(s) or end item assigned to the program of which the item is a component. When a Title (Top) Sheet is used, the "Used On" Column may be used in lieu of Column 30 of the Parts List (PL).



"SUGGESTED" SEPARATE PARTS LIST (PL).
FIGURE 10-14



INCH SEPARATE PARTS LIST TITLE SHEET.
FIGURE 10-15



METRIC SEPARATE PARTS LIST TITLE SHEET.
FIGURE 10-15M

10.11.7 Miscellaneous Revision Procedures For Manually Prepared Separate Parts List.

10.11.7.1 Adding New Items. New or superseding items may be either added chronologically at the end of a list or inserted in the list. Initial alpha-numerical sequence need not be maintained after list revision.

10.11.7.2 Adding Additional Sheets. Additional sheets may be added when the last sheet will not accommodate additions. When additional sheets are inserted midway in the total number of sheets, decimal numbered sheets may be added in sequential order between existing sheets.

e.g. Sheet 6.1 is added between sheets 6 and 7; therefore,
SHEET 1 OF 8" would become "SHEET 1 OF 9".

10.11.7.3 Deleting Items. Items to be deleted shall retain the same Find number. The nomenclature shall be erased, or, the word "DELETED" may be inserted in the nomenclature or description column.

10.12 GENERAL REQUIREMENTS FOR MANUALLY PREPARED "DATA LIST" (DL) SEPARATE FROM THE DRAWING. (ALSO APPLIES TO LISTS PREPARED USING CAD APPLICATIONS THAT APPEAR ON A DRAWING FORMAT)

10.12.1 Data Lists (DL) Separate From The Drawing Requirements. A Data List is a tabulation of all engineering drawings, documents referenced thereon (except in-house documents referenced parenthetically), associated lists, specifications, and subordinate data lists pertaining to the item to which the Data List applies. Data List may consist of five sections, each of which shall be identified with a sub-title in the Nomenclature of Document Title column. Each section of the DL will begin on a new page; however, all five sections will be combined into a single DL document and pages will be numbered consecutively for the entire document. The five sections shall be titled as follows: (See FIGURE 10-23.)

a. Product Drawings and Lists.

b. Package Drawings and Associated Documents.

(1) This section is a cumulative listing of the drawings and documents associated with the packaging, packing and shipping requirements for the item for which the list is prepared. The sequence and format of data, notes and codes are the same as those used for the product drawings and lists section.

c. Inspection Equipment (IE) Drawings and Lists.

(1) This section is a cumulative listing of the drawings and their associated documents required to inspect and/or test the item for which the list is prepared. All assembly drawings will be treed down through sub- assemblies to the lowest detail component; i.e. drawings cited in Sections 2 and/or 4 of the performance specification for the item for which the DL is prepared shall be included in this section of the DL.

d. Specifications and Standards and Other Documents (as referenced on drawings and parts lists).

e. Other Documents (as referenced on drawings and parts lists).

Under each of the above headings, the drawings, documents, and associated lists pertaining to the item for which the Data List is prepared shall be listed thereon.

10.12.1.1 ADPS Data List. ADPS Data Lists shall contain the section as specified in PARAGRAPH 10.12.1 a., b., c., d and e, but may be a continuous runout of the applicable documents, i.e. each document category need not begin a new page.

10.12.2 Format.

10.12.2.1 Company Forms Used For Manually Prepared Separate Data Lists. Company forms are used when preparing a manual Data List (DL) separate from drawings (See FIGURE 10-16) except when using "Automatic Data Processing System" (ADPS) techniques.

10.12.2.2 Title (Top) Sheet For Manually Prepared Separate Data List. A title sheet may be used as Page 1 of all "Data Lists" (DL). (See FIGURE 10-15 and 10-15M) and substitute "PL" with "DL" in the Drawing Number Block. The Title sheet may contain signatures, revision record of reissue of multiple sheets in their entirety, Notes, etc., are to be entered on this sheet.

10.12.3 Identification. Data Lists (DL) are identified by a document number including the basic drawing number preceded by the Prefix "DL". Assemblies requiring separate identification should have different "DL" identifications including "shown" and "opposite" assemblies, e.g., DL1234567-1, DL1234567-2.

10.12.4 Data List (DL) Entries.

10.12.4.1 Sequence Of Documents. Drawings and other documents shall be arranged within each section by CAGE Code and further arranged in alpha-numeric sequence when applicable. Government and non-Government specifications and standards are listed without CAGE Codes. This sequence need not be maintained after list revision.

10.12.4.2 Order of Precedence. The drawings and other documents to be listed shall start at the top of the list of each section and proceed downward. They shall be segregated into groups in the order of precedence prescribed as follows:

a. Drawings
b. Lists: Parts Lists (PL), Data Lists (DL), Special Lists (usage inspection equipment, etc.)
c. Specifications
d. Standards
e. Publications
f. Other documents referenced on drawings and Parts List (PL)

Alternate Sequence: Lists may follow associated drawings when the base number of each is identical. Drawings and other documents shall be arranged within each group by CAGE Code and further arranged in alpha-numeric sequence when applicable. Government and non-Government specifications and standards are listed without CAGE Code.

10.12.4.3 Entries. Entries are made by either hand lettering or typing. Blank spaces may be left in the DATA List between the category groupings to allow for later additions. Horizontal separating lines between item entries are not mandatory. When separating lines are used, the spacing will be suitable for the height of the entry; no standard increment is required. New or superseding items may be either added chronologically in the list or added at the end of the list. Initial sequence need not be maintained after list revision. Entries are made in the blocks and columns of the Data List (FIGURE 10-16) and listed as follows:

BLOCK 1, DESIGN ACTIVITY (Optional)) Block. The original design activity of a Government procurement activity or the name and address of the Contractor (or design activity) whose Commercial and Government Entity (CAGE) Code appears in block 2 shall be entered.

BLOCK 1(a), CONTRACT NUMBER (Optional) Block. Enter contract number under which the list is initially prepared Subsequent contract numbers to which the list may apply may be omitted from this block.

BLOCK 2, CAGE CODE (Optional) Block. Enter the Commercial and Government Entity Code designating the original design activity whose CAGE Code (if applicable) assigned to the associated drawing appears on all sheets.

BLOCK 3, ORIGINAL DATE (Mandatory) Block. Enter the date the Parts List was originally released. Express the date by YY-MM-DD (Year-Month-Day) e.g. 08-06-21

BLOCK 4, DATA LIST (DL) NUMBER (Mandatory) Block. Enter the identifying number of the assembly drawing prefixed with the letters PL to which the list applies on each sheet of the list.

BLOCK 5, REVISION. (Mandatory) See SECTION 23 herein.

BLOCK 6, LIST TITLE (Optional) Block. On sheet 1 enter the basic noun or noun phrase from the title of the drawing to which the list applies. When more than a single sheet is required to prepare or revise a list, the list title may be shown on each sheet; however, it is required only on the first sheet.

BLOCK 7, END ITEM or SYSTEM DESIGNATOR (Mandatory) Enter the end item or system designator to which the list applies. When no designator has been assigned, the top assembly part number of the end item shall be entered.

BLOCK 8, APPROVAL SIGNATURE (Optional) Block. An approval signature, hand written or lettered, is entered in this block or cover sheet if used, at initial release of manually prepared lists. Signatures are not required on subsequent sheets or when entered on an optional cover sheet. Signatures are not required for machine (ADPS) prepared lists or may be mechanically printed.

BLOCK 9, REVISION AUTHORIZATION NUMBER Block. (Mandatory) The number of the revision authorization document, Drawing Change Notice (DCN), shall be entered when a revision description or revision record is not provided.

BLOCK 10, SHEET NUMBER (Mandatory) Block. Enter the appropriate sheet number on each sheet. The total number of sheets in the list shall be specified on the first sheet only. On Automatic Data Processing Systems (ADPSs) prepared sheets, the first or last sheet shall indicate the total number of sheets. Sheets 2, 3, etc., shall bear a sheet number only in this block.

e.g. SHEET 1 OF 6 – *First Sheet*
SHEET 3 – *Third Sheet*

COLUMN 11, CAGE CODE (Optional) Column. Enter the appropriate CAGE Code assigned to the original design activity whose document number appears in Column 13. When a Government or non-Government specification or standard appears in Prefix Code Column 13, no entry need be made in Column 12. When the CAGE Code is identical to that entered in block 2, do not repeat the code in Column 11.

COLUMN 12, PREFIX CODE (Mandatory) Column. Provides means of identification for documents other than drawings.

e.g. DL for Data List.

COLUMN 13, DOCUMENT NUMBER (Mandatory) Column. Enter the assigned number of each document applicable to the item. See PARAGRAPH 10.12.4.2 for order sequence listing.

COLUMN 13a, DRAWING SIZE (Optional) (Mandatory if Drawing Sizes are Different) Column). Enter the proper letter for the drawing size of all drawings listed in Column 13. No letter size is required for Military Specifications, Standards and book form documents.

COLUMN 14, REVISION STATUS or ISSUE SYMBOL (Mandatory) Column. Enter the latest revision letter or issue symbol applicable to the document whose number appears in Column 13.

NOTE: When revision symbols applicable to specific configuration identifications are maintained and provided as required through ADPS or EAM systems, the use of Column 14 is optional.

COLUMN 15, SHEET NUMBER (Mandatory) Column. Book-form and multi-sheet drawings recording revision status on sheet one (1) need only record total number of sheets in this column. Drawings recording revisions on sheets affected shall have each sheet listed. However, specifications and standards shall not have total number of inclusive sheets listed.

COLUMN 16, DOCUMENT NOMENCLATURE (Optional) Column. As a minimum, enter the assigned noun or noun phrase of each document whose number appears in Column 13.

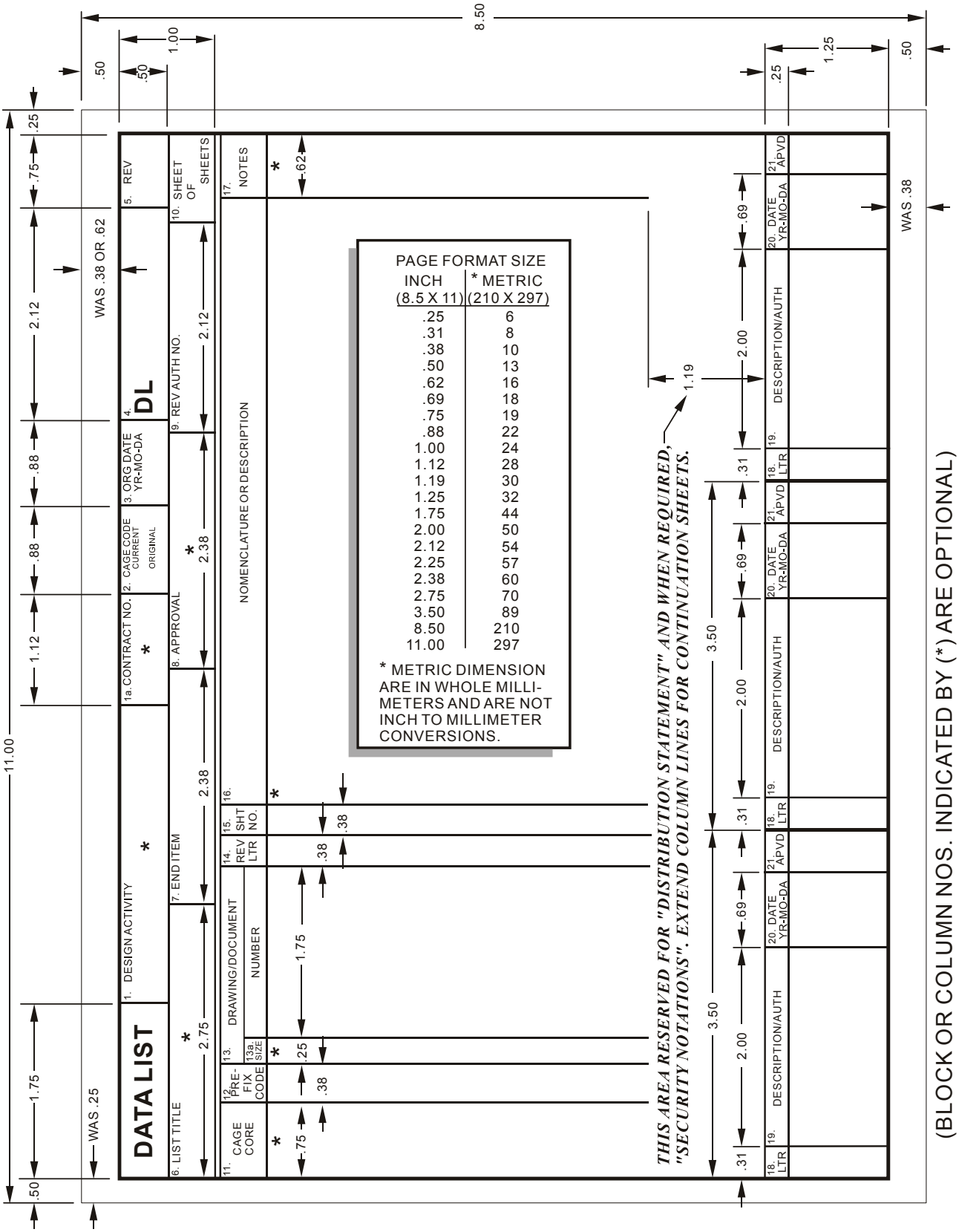
COLUMN 17, NOTES (Optional) Column. For referencing notes elsewhere to clarify the line entry.

COLUMN 18, REVISION LETTER (Mandatory) Column. Data Lists shall include a Revision History Block at the bottom of the applicable list per FIGURE 10-16. Entries for revision letter, description, date and approval would be made in accordance with SECTION 23 of this DRM. A description of every change, addition or deletion processed shall be recorded either on a sheet of the affected list or on a separate revision notice referred to as a Document Change Notice (DCN). When the list is initially released, enter a dash (-) and release date on each sheet of the list. Each time a sheet of the list is revised, enter the appropriate revision letter and revision date on the revised sheet. When a revised list is reissued in its entirety, a new revision letter shall be entered on all sheets, including those that have not been revised. When an optional cover sheet is used, the release data need be entered on that sheet only. Separate Data Lists are changed independently from the applicable drawings. There is no requirement that the drawing and a separate DL maintain the same revision letter.

COLUMN 19, DESCRIPTION/AUTHENTICATION (Mandatory) Column. A brief description of the change or reference to the identity of the revision authorization document
describing the change. (DCN or NOR).

COLUMN 20, DATE (Mandatory) Column. Date entered at time Approval Column 21 is entered. Date shall be entered as YR-MO-DAY. E.g. 94-06-21

COLUMN 21, APPROVED (Mandatory) Column. Certification of revision shall be entered in the Approval Column and date entered in the Date Column 20.



"SUGGESTED" DATA LIST (DL).
FIGURE 10-16

10.13 GENERAL REQUIREMENTS FOR MANUALLY PREPARED "INDEX LISTS" (IL) SEPARATE FROM THE DRAWING. (ALSO APPLIES TO LISTS PREPARED USING CAD APPLICATIONS THAT APPEAR ON A DRAWING FORMAT)

10.13.1 Separate Index List Use Requirements. An Index List is a tabulation of Data Lists and subordinate index lists pertaining to the item to which the index list applies.

10.13.2 Format.

10.13.2.1 Company Forms Used For Manually Prepared Separate Index Lists. Company Forms are used when preparing a manual Index List (IL) separate from drawings (See FIGURE 10-17), except when using Automatic Data Processing System (ADPS) techniques.

10.13.2.2 Title (Top) Sheet For Manually Prepared Separate Index Lists (IL). A Title sheet may be used as Page one (1) of all index lists (IL). (See FIGURE 10-15 and 10-15M) and substitute "PL" with "IL" in the Drawing Number Block. The cover sheet may contain signatures; revision record of reissue of multiple sheets in their entirety, notes, etc. are to be entered on this sheet.

10.13.3 Index List (IL) Entries.

10.13.3.1 Order Of Precedence. Items are entered in separate Index Lists (IL) starting at the top of the list and proceeding downward. The items shall be grouped under the following headings:

a. Data lists.
b. Index lists.

10.13.3.2 SEQUENCE OF DOCUMENTS. Under each heading, arrangement shall be as follows: The list numbers of those items whose CAGE Code appears in block 2 shall be arranged alpha-numerically in Column 12; their CAGE Code need not be repeated in Column 9. The CAGE Codes of all documents shall then be arranged numerically in Column 11 with each corresponding list number placed side by side in Column 12. List numbers of those documents having identical CAGE Codes shall be arranged alpha-numerically in Column 12. This sequence need not be maintained after list revision.

10.13.3.3 Entries. Entries are made by either hand lettering or typing. Blank spaces may be left in the index list (IL) between the groupings to allow for later additions. Horizontal separating lines between item entries are not mandatory. When separating lines are used, the spacing will be suitable for the height of the entry; no standard increment is required. Entries are made in the blocks and columns of the Index List (IL) (FIGURE 10-17) and listed as follows:

BLOCK 1, DESIGN ACTIVITY (Optional)) Block. The original design activity of a Government procurement activity or the name and address of the Contractor (or design activity) whose Commercial and Government Entity (CAGE) Code appears in block 2 shall be entered.

BLOCK 1(a), CONTRACT NUMBER (Optional) Block. Enter contract number under which the list is initially prepared Subsequent contract numbers to which the list may apply may be omitted from this block.

BLOCK 2, CAGE CODE (Optional) Block. Enter the Commercial and Government Entity Code designating the original design activity whose CAGE Code (if applicable) assigned to the associated drawing appears on all sheets.

BLOCK 3, ORIGINAL DATE (Mandatory) Block. Enter the date the Parts List was originally released. Express the date by YR-MO-DAY, e.g., 94-06-21

BLOCK 4, INDEX LIST (IL) NUMBER (Mandatory) Block. Enter the identifying number of the assembly drawing prefixed with the letters PL to which the list applies on each sheet of the list.

BLOCK 5, REVISION. (Mandatory) See SECTION 23 herein.

BLOCK 6, LIST TITLE (Optional) Block. On sheet 1 enter the basic noun or noun phrase from the title of the drawing to which the list applies. When more than a single sheet is required to prepare or revise a list, the list title may be shown on each sheet; however, it is required only on the first sheet.

BLOCK 7, END ITEM or SYSTEM DESIGNATOR. (Mandatory) Enter the end item or system designator to which the list applies. When no designator has been assigned, the top assembly part number of the end item shall be entered.

BLOCK 8, APPROVAL SIGNATURE (Optional) Block). An approval signature, hand written or lettered, is entered in this block or cover sheet if used, at initial release of manually prepared lists. Signatures are not required on subsequent sheets or when entered on an optional cover sheet. Signatures are not required for machine (ADPS) prepared lists or may be mechanically printed.

BLOCK 9, REVISION AUTHORIZATION NUMBER Block. (Mandatory) The number of the revision authorization document, Drawing Change Notice (DCN), shall be entered when a revision description or revision record is not provided.

BLOCK 10, SHEET NUMBER (Mandatory) Block. Enter the appropriate sheet number on each sheet. The total number of sheets in the list shall be specified on the first sheet only. On Automatic Data Processing Systems (ADPSs) prepared sheets, the first or last sheet shall indicate the total number of sheets. Sheets 2, 3, etc., shall bear a sheet number only in this block.

e.g. SHEET 1 OF 6 – *First Sheet*
SHEET 3 – *Third Sheet*

COLUMN 11, CAGE CODE (Optional) Column. Except for CAGE Code identical to that entered in block 2, enter the appropriate CAGE Code assigned to the design activity whose list number appears in Column 12.

COLUMN 12, LIST NUMBER (Mandatory) Column. Enter the list number of each list and subordinate list applicable to the item to which the list applies. Items may be grouped under the following headings as applicable:

DATA LIST
INDEX LIST
INDENTURED LIST

When new entries are required as the result of revision action, the new entries may be added to the end of the existing list following the same sequence.

ALPHA-NUMERIC ARRANGEMENT. A group of mixed number-letter designations arranged so that the character farthest to the left in each designation is aligned. All the characters in this first portion are arranged alphabetically where possible. Below the alphabetized characters, those with numbers in the first position are arranged consecutively (0-9). Alphabetic O's should be considered as numeric zeros. Further organization of those characters in the second and succeeding positions is achieved by placing the designations composed only of single characters first; those with a dash (-) second; those with a slash (/) third; the alphabetized group, fourth and finally, the numerically arranged group.

COLUMN 13, REVISION STATUS (Mandatory) Column. Enter the latest revision letter applicable to the Index List (IL) Number whose letter appears in Column 13.

COLUMN 14, LIST TITLE (Mandatory) Column. Enter the noun or noun phrase of each list whose letter appears in Column 12.

COLUMN 15, NOTES (Optional) Column. For referencing notes elsewhere to clarify the line entry.

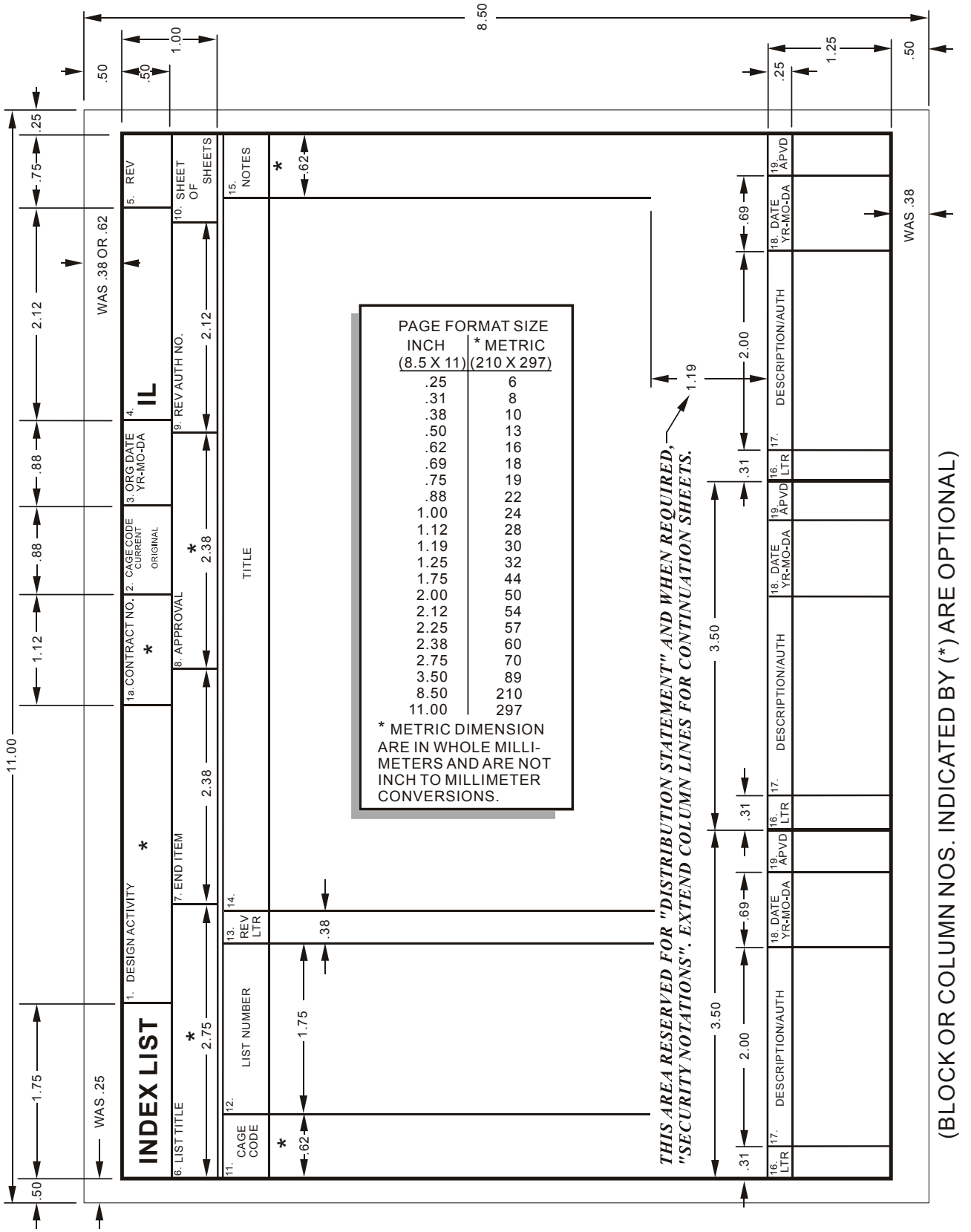
COLUMN 16, REVISION LETTER (Mandatory) Column. Index Lists shall include a Revision History Block at the bottom of the applicable list per FIGURE 10-17. Entries for revision letter, description, date and approval would be made in accordance with SECTION 23 of this DRM. A description of every change, addition or deletion processed shall be recorded either on a sheet of the effected list or on a separate revision notice referred to as a Document Change Notice (DCN). When the list is initially released, enter a dash (-) and release date on each sheet of the list. Each time a sheet of the list is revised, enter the appropriate revision letter and revision date on the revised sheet. When a revision sheet is reissued in its entirety, a new revision letter shall be entered on all sheets, including those that have not been revised. When an optional cover sheet is used, the release date need be entered on that sheet only. Separate Index Lists are changed independently from the applicable drawings. There is no requirement that the drawing and a separate IL maintain the same revision letter.

COLUMN 17, DESCRIPTION/AUTHENTICATION (Mandatory) Column. A brief description of the change or reference to the identity of the revision authorization document describing the change (DCN or NOR).

COLUMN 18, DATE (Mandatory) Column. Date entered at time Approval COLUMN 19 is entered. Date shall be entered as YR-MO-DAY. E.g. 94-06-21

COLUMN 19, APPROVED (Mandatory) Column. Certification of revision shall be entered in the Approval Column and date entered in the Date Column 18.

.



"SUGGESTED" INDEX LIST (IL).
FIGURE 10-17

10.14 GENERAL REQUIREMENTS FOR MANUALLY PREPARED INDENTURED DATA LIST (ID) SEPARATE FROM THE DRAWING. (ALSO APPLIES TO LISTS PREPARED USING CAD APPLICATIONS THAT APPEAR ON A DRAWING FORMAT)

10.14.1 Indentured Data List (ID) Requirements. A tabulation of all engineering drawings, associated lists, specifications, standards and subordinate data lists pertaining to the item to which the data list applies and essential in-house documents necessary to meet the technical design disclosure requirements except for those in-house documents referenced parenthetically. The documents are listed in a top-down breakdown (generation tree) order.

10.14.2 Format.

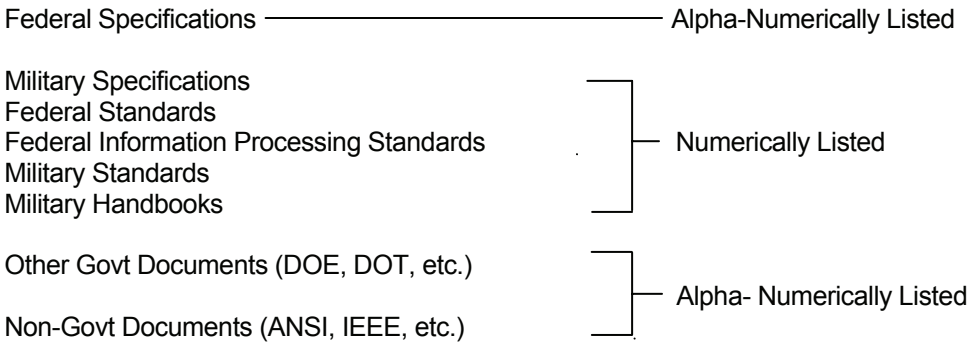
10.14.2.1 Company Forms For Manually Prepared Separate Indentured Data List (ID). A company form is used when preparing a manual Indentured Data List (ID) separate from the drawing. See FIGURE 10-21 except when using Automatic Data Processing System (ADPS) techniques. The indentured data list shall consist of a header followed by a two (2) part listing of all engineering documents comprising a technical data package, including all standardization documents. See FIGURE 10-21.

a. **PART I Listing.** All documents for the complete system shall be listed in top-down breakdown (generation tree) order in accordance with FIGURE 10-19. List shall include:

(1) All documents except standardization documents required to define an item, assembly or system required to make up the technical data package.

(2) All subcontractor, vendor or supplier documents that are required to make up the technical data package applicable to the item or services.

b. **PART II Listing.** Part II listing shall identify all Government and non-Government standardization documents that are cited or referenced in the documents listed in Part I. Part II entries shall be entered in the same manner as Part 1 and in accordance with FIGURE 10-19. Document listing shall be sequenced as follows: (Ref MIL-STD-961)



10.14.2.2 Title (Top) Sheet For Manually Prepared Indentured Data List (ID). A Title sheet when used as Page one (1) of all Indentured Data List (ID). (See FIGURE 10-15 and 10-15M) and substitute "PL" with "ID" in the Drawing Number block. The Title Sheet may contain signatures, revision record of reissue of multiple sheets in their entirety and Notes.

10.14.3 Entries. Entries are made by either hand lettering or typing. Blank spaces may be left in the Indentured Data List (ID) between the indentured groupings to allow for later additions. Horizontal separating lines between indentured items are not mandatory. When separating lines are used, the spacing will be suitable for the height of the entry; no standard increment is required. New or superseding items may be either added chronologically in the list or added at the end of the list. Initial sequence need not be maintained after list revision. Entries are made in the blocks and columns of the Indentured Data List (ID) (FIGURE 10-21) and listed as follows:

BLOCK 1, DESIGN ACTIVITY (Optional)) Block. The original design activity of a Government procurement activity or the name and address of the Contractor (or design activity) whose Commercial and Government Entity (CAGE) Code appears in block 2 shall be entered.

BLOCK 1(a), CONTRACT NUMBER (Optional) Block. Enter contract number under which the list is initially prepared Subsequent contract numbers to which the list may apply may be omitted from this block.

BLOCK 2, CAGE CODE (Optional) Block. Enter the Commercial and Government Entity Code designating the original design activity whose CAGE Code (if applicable) assigned to the associated drawing appears on all sheets.

BLOCK 3, ORIGINAL DATE (Mandatory) Block. Enter the date the Parts List was originally released. Express the date by YR-MO-DAY, e.g. 94-06-21

BLOCK 4, INDENTURED DATA LIST (ID) NUMBER (Mandatory) Block. Enter the identifying number of the assembly drawing prefixed with the letters IDL to which the list applies on each sheet of the list.

BLOCK 5, REVISION. (Mandatory) See SECTION 23 herein.

BLOCK 6, LIST TITLE (Optional) Block. On sheet 1 enter the basic noun or noun phrase from the title of the drawing to which the list applies. When more than a single sheet is required to prepare or revise a list, the list title may be shown on each sheet; however, it is required only on the first sheet.

BLOCK 7, END ITEM or SYSTEM DESIGNATOR. (Mandatory) Enter the end item or system designator to which the list applies. When no designator has been assigned, the top assembly part number of the end item shall be entered.

BLOCK 8, APPROVAL SIGNATURE (Optional) Block). An approval signature, hand written or lettered, is entered in this block or cover sheet if used, at initial release of manually prepared lists. Signatures are not required on subsequent sheets or when entered on an optional cover sheet. Signatures are not required for machine (ADPS) prepared lists or may be mechanically printed.

BLOCK 9, REVISION AUTHORIZATION NUMBER Block. (Mandatory) The number of the revision authorization document, Drawing Change Notice (DCN), shall be entered when a revision description or revision record is not provided.

BLOCK 10, SHEET NUMBER (Mandatory) Block. Enter the appropriate sheet number on each sheet. The total number of sheets in the list shall be specified on the first sheet only. On Automatic Data Processing Systems (ADPSs) prepared sheets, the first or last sheet shall indicate the total number of sheets. Sheets 2, 3, etc., shall bear a sheet number only in this block.

e.g. SHEET 1 OF 6 – *First Sheet*
SHEET 3 – *Third Sheet*

BLOCK 11, PART I LISTING (Mandatory) Block. A list that identifies all documents to define an item, assembly or system. All documents listed for the complete system or end item shall be listed in a top-down breakdown (generation tree) order See Paragraph 10.14.2.1a.

COLUMN 12, TYPE OF DOCUMENT CODE (DOC TYPE) (Optional) Column. As required by the procuring activity, enter a document type code to, identify the type of each document listed in Column 14. Document type codes are listed in FIGURE 10-18 per MIL-STD-804 which is INACTIVE FOR NEW DESIGN AFTER 6/01/95. The procuring activity will need to provide the codes or approve the codes used by the design activity by providing them as part of the Technical Data Package (TDP).

Document (Prefix) Code	Explanation	Document (Prefix) Code	Explanation
AL	Application/Auxiliary List	QL	Qualified Product List
AW	Art Work	RD	Redistribution List
CB	Circuit Board	RL	Running List
CC	Classification Characteristics	SD	Schematic Diagram
CP	Company Specification	SL	Specification List
CS	Company Standard	SS	System Schematic
DL	Document/Drawing List	TB	Test Bulletin
D7	Undimensioned Drawing	TD	Tool Drawing or List
EL	Equipment List	TL	Tabulating List
FL	Functional List	TP	Test Procedures
GL	Gauge List	TR	Test requirement
ID	Indentured Data List	TS	Test Specifications
IL	Index List	UL	Usage List
KD	Kit Drawings	WB	Wiring Board or Wire Print Board
LD	Logic Diagram	WD	Wiring Diagram
MI	Master index List	WH	Wiring Harness
ML	Material List	WL	Wiring List
MP	Master Pattern	WT	Wire Table
NC	Numerical Control Data	1L	Acquisition Data Only
NO	Nuclear Ordnance Data	2L	Maintenance Data Only
PB	Program Bulletin	3L	Acquisition & Maintenance Data
PD	Program Document	4L	Acquisition Data Packing List
PL	Parts List		
QA	Quality Assurance Data		

TYPE OF DOCUMENT CODES.
FIGURE 10-18

COLUMN 13, INDENTURED LEVEL (ID LVL) (Mandatory) Column. Enter a numerical code to indicate the relationship of the document listed in Column 14 to the end item or system, and its subordinate assemblies and subassemblies. A two digit number shall be used beginning with "01" to indicate the top drawing indenture. Codes shall follow the pattern shown in FIGURE 10-19.

INDENTURED DATA LIST | 1 DESIGN ACTIVITY

6. LIST TITLE

IDENTURED DATA LIST FORMAT
(See FIGURE 10-20 for interpretation.)

Items listed in italics on the indentured data list are for reference only and shall not be recorded on the list.

12. DOC TYPE	13. IND LVL	14. DOCUMENT NUMBER	15.
	01	123456	*(drawing for complete system or configuration item)*
PL	01	PL123456	*(parts list for drawing 123456)*
CS	02	S3245	*(company standard listed in drawing 123456 notes)*
CS	02	MK137	*(company part marking standard listed in the notes on drawing 123456)*
CS	02	FIN3589	*(company paint standard listed on drawing 123456)*
	02	678900	*(assembly drawing listed on drawing 123456)*
PL	02	PL678900	*(parts list for drawing 6789100)*
CS	02	S3245	*(company standard listed in drawing 6789100)*
CS	03	MK137	*(company part marking standard listed in the notes on the drawing 6789100)*
SD	03	SCHM993	*(schematic diagram listed on drawing 6789100)*
WL	03	WL993	*(wire list called out on drawing 6789100)*
	03	135790	*(assembly drawing listed on drawing 6789100)*
PL	03	PL135790	*(parts list for drawing 135790)*
	04	975310	*(detail part drawing listed on drawing 135790)*
	04	102030	*(drawing for attached parts as listed on drawing 135790 parts list)*
	04	192850	*(parts list for drawing 135790Enter "@" in column 22, Figure 21. See NOTE 1.)*
	04	582910	*(substitute part for 192850. Enter an "S" in column 22, Figure 21 See NOTE 1.)*
	05	112233	*(detail part drawing listed on drawing 192850)*
	05	864200	*(drawing for attached parts listed on drawing 192850)*
CS	06	S3245	*(company standard listed in drawing 864200 notes)*
	03	2DPK660	*(detail part drawing listed on drawing 6789100)*
	02	765432	*(assembly drawing shown on drawing 123456)*
PL	02	PL765432	*(parts list for drawing 765432)*

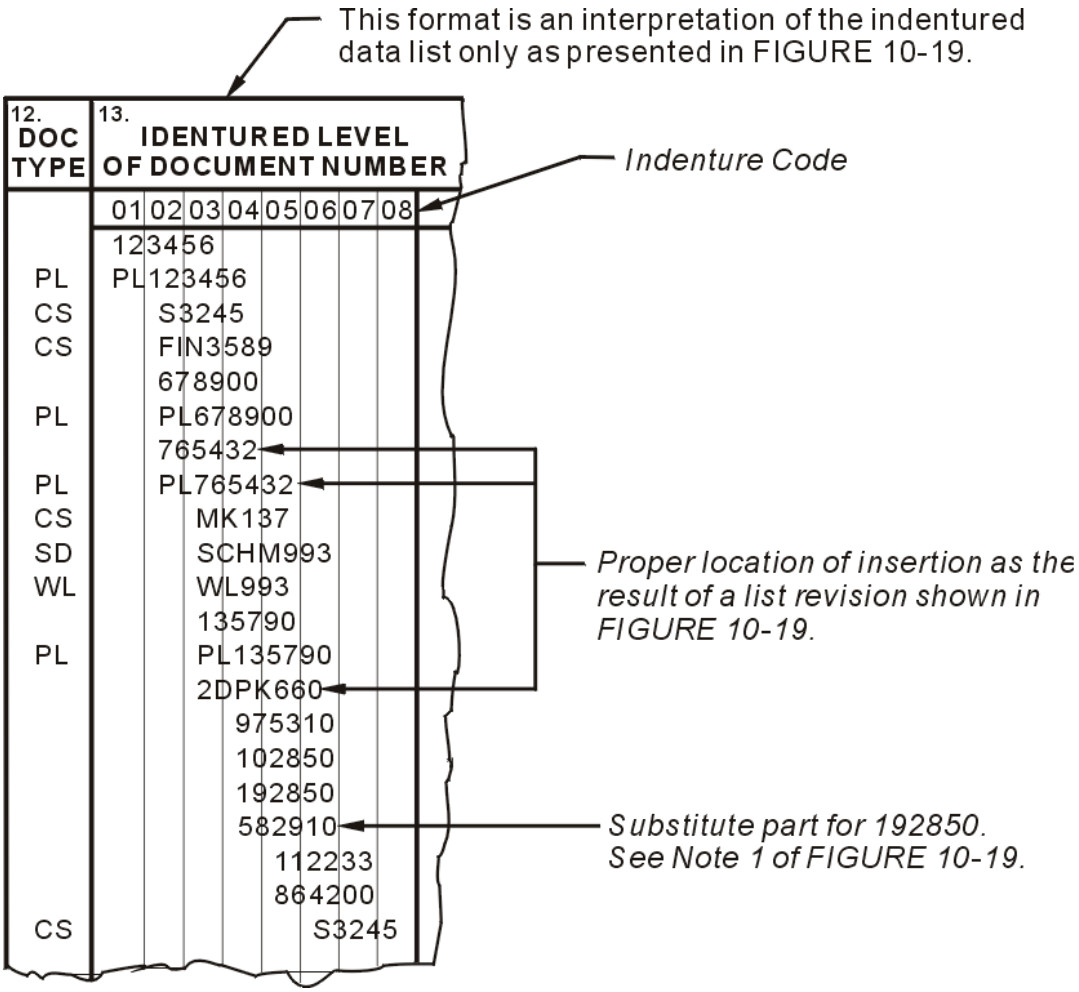
NOTE: These entries were entered during a list revision See FIGURE 10-20 for interpretation of INDENTURED DATA LIST ENTRIES for proper sequencing.

NOTES:

1. Substitute documents shall immediately follow primary documents at the same indenture level.

2. Drawing preparation documents, technical manuals, etc. shall not be included in the indentured data list.

INDENTURED DATA LIST (ID) ENTRIES.
FIGURE 10-19



INDENTURED DATA LIST (ID) INTERPRETATION Of FIGURE 10-19
FIGURE 10-20

COLUMN 14, DOCUMENT NUMBER (Mandatory) Column. Enter the complete identification number for the document being listed. A complete document identification number includes prefixes such as PL, DL, IL, IDL, AL, and WL for associated lists.

a. Substitute/Alternative documents shall immediately follow primary documents at the same indenture level.

b. Items listed in parentheses "( )" on the drawing and parts list are for reference only and shall not be recorded on the list.

c. Drawing preparation documents, technical manuals, etc. shall not be included in the Indentured Data List (ID).

COLUMN 15, NUMBER OF SHEETS (No. of SHTS) (Optional) Column. Enter the total number of sheets comprising the document listed in Column 14 when all sheets of the document are maintained at the same revision level, or when the document itself contains a listing of the revision status of sheets. If the total number of sheets exceeds 999, then "999" shall be the entry. If the sheets of the document listed in Column 14 are revised independently and the document does not contain revision status of its sheet listing, each sheet of the document shall be listed separately by its sheet number.

COLUMN 16, CAGE CODE (Optional) Column. Enter. The Commercial and Entity Code (CAGE) assigned to the document listed in column 14.

COLUMN 17, REVISION LETTER (REV LTR) Mandatory) Column. The latest revision letter applicable to the document listed In Column 14. If each sheet of the document is listed separately in Column 14, the entry is the revision letter applicable to each sheet. For documents such as ANSI or ASME where no revisions are indicated, the entry shall be the last two digits of the date indicating the year of issue or reaffirmation date.

COLUMN 18, OUTSTANDING CHANGES (OUT CHGS) (Optional) Column. Enter the identification number of each change, e.g. Document Changes Notice (DCN)), against a document that has not yet been incorporated into a new revision.

COLUMN 19, SOURCE CODE (SRC) (Optional) Column. When items are source coded, the source code assigned to the part identified in Column 14 shall be entered as follows:

A Non-procurable assembly which can be built up from details at any maintenance of the item or system.

A1 Same as A, but depot level only.

M Field Manufacture, procurement not justified.

M1 Same as M, but depot level manufacture only.

P6 Parts procurable by open competition.

P7 Parts procurable only from selected sources.

P8 Parts which must be procured from a sole source.

U Documents and parts which are not significant to the maintenance of the item or system.

COLUMN 20, RIGHTS INFORMATION (RTS INFO) (Mandatory) Column. For documents to which the Government has an unlimited right to use, enter **"U".** For documents to which the Government has only a limited right to use, enter **"L"**.

COLUMN 21, SPECIAL CONDITIONS (SPEC COND) (Mandatory) Column. Enter the identification of special conditions noted on the listed documentation. These conditions are identified with the following codes. Additional codes may be added when appropriate but must be defined at the end of the list and submitted with the Technical Data Package (TDP).

CSI Critical Safety Item

CSP Critical Safety Process

ENI Environmental Impact Items

ESD Electro Static Discharge sensitive devices

ESS Environmental Stress Screening

HAZ HAZardous conditions, processes, or materials

HCI Hardness Critical Item

HCP Hardness Critical Process

INT INTerface control

I / R Interchangeability / Replaceability

OCI Observable Critical Item

OCP Observable Critical Process

ODS Ozone Depleting Substances

COLUMN 22, SUBSTITUTE PART INDICATOR (SUB IND) (Optional) Column. When substitute parts have been selected for the primary part listed, enter the appropriate notation. The notation for identifying substitutes are: "@" if the primary number has one or more substitutes , and "S" if the item listed is a Substitute.

COLUMN 23, NEXT HIGHER ASSEMBLY (Mandatory When Cover Sheet Not Used) Column. Enter the next higher assembly drawing number applicable to the document number contained in Column 14. For indentured level "01", this Column shall be left blank.

COLUMN 24, REMARKS (RMKS FLAG) (Optional) Column. Enter any appropriate explanatory remarks or notation that may be useful or informative regarding the entries in any of the preceding elements. A flag symbol may be used to locate the information where space is more appropriate.

BLOCK 25, PART II LISTING Mandatory) Block. A list that identifies all Government and non-government standardization documents that are cited or referenced in the documents listed in Part I of Block 9.

COLUMN 26, DOCUMENT IDENTIFIER AND REVISION (Mandatory) Column. Enter the document identifier with applicable revision level indicator. Entries shall be sequenced per MIL-STD-961. See PARAGRAPH 10.14.2.1b. Initial sequence need not be maintained after list revision.

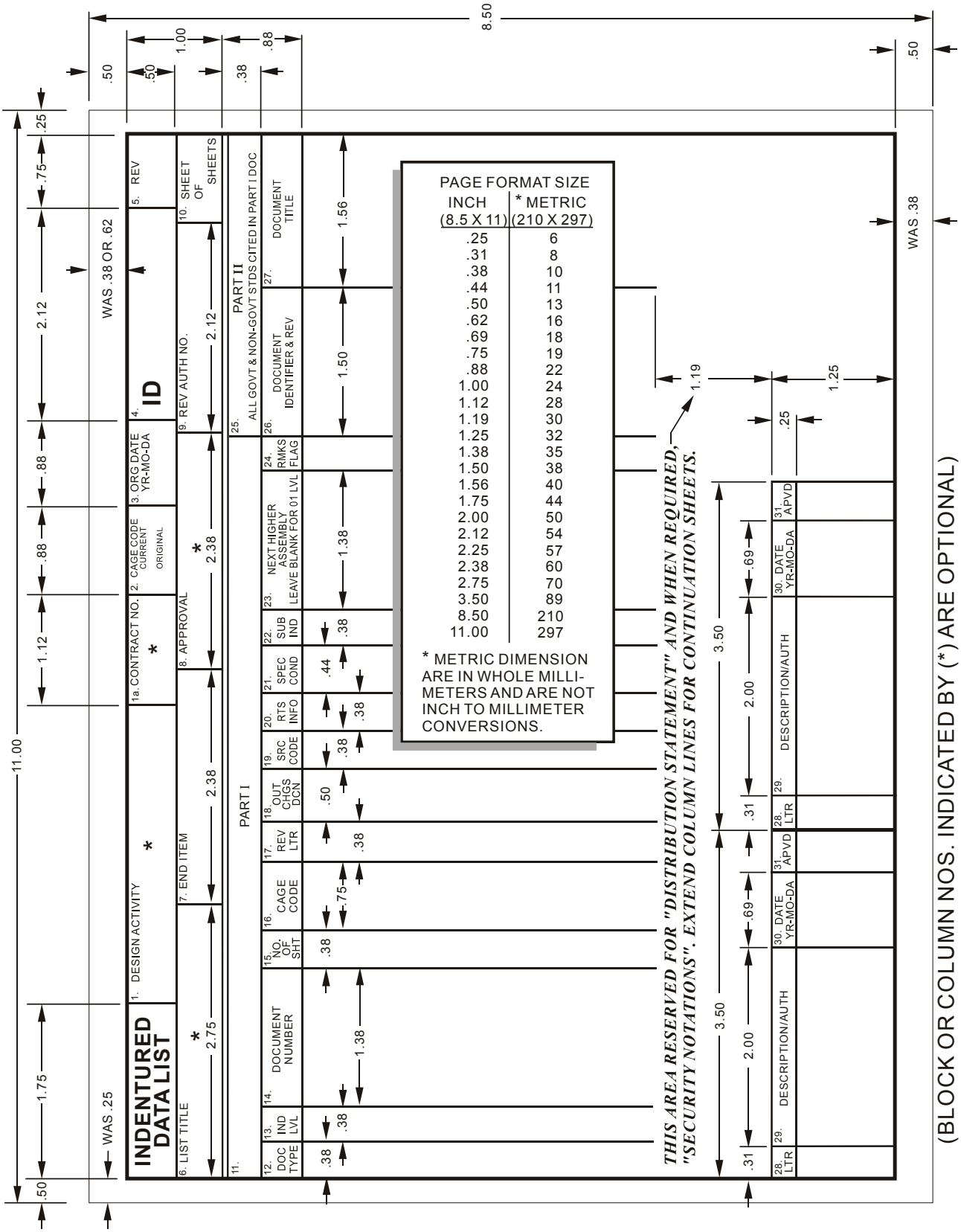
COLUMN 27, DOCUMENT TITLE (Mandatory) Column. Enter the document title or, if the document has no title, a short descriptive phrase.

COLUMN 28, REVISION LETTER (LTR) (Mandatory) Column. Parts List shall include a Revision Block at the bottom of the applicable list per FIGURE 10-21. Entries for revision letter, description, date and approval would be made in accordance with SECTION 23 of this DRM. A description of every change, addition or deletion processed shall be recorded either on a sheet of the affected list or on a separate revision noticed referred to as a Document Change Notice (DCN). When the list is initially released, enter a dash (-) and release date on each sheet of the list. Each time a sheet of the list is revised, enter the appropriate Revision Letter and revision date on the revised sheet. When the revised list is reissued in its entirety, a new revision letter shall be entered on all sheets, including those that have not been revised. When an optional cover sheet is used, the release date need be entered on that sheet only. Separate parts lists are changed independently from the applicable drawings. There is no requirement that the drawing and a separate "IDL" maintain the same revision letter.

COLUMN 29, DESCRIPTION / AUTHENTICATION (Mandatory) Column. A brief description of the change or reference to the identity of the revision authorization document describing the change referred to as a Document Change Notice (DCN or NOR).

COLUMN 30, DATE (Mandatory) Column. Date entered at time approval Column 31 is entered. Date shall be entered as YR-MO-DAY. e.g., 94-06-21

COLUMN 31, APPROVED (Mandatory) Column. Certification of revision shall be entered in the Approval Column and date entered in the Date Column 30.



"SUGGESTED" INDENTURED DATA LIST (ID).
FIGURE 10-21

10.15 GENERAL REQUIREMENTS FOR MANUALLY PREPARED "WIRE LIST" (WL) SEPARATE FROM THE DRAWING. THE SAME TYPE COLUMNAR ARRANGEMENT MAY BE USED FOR AN INTEGRAL "WIRE LIST" (WL) ON THE DRAWINGS. (ALSO APPLIES TO LISTS PREPARED USING CAD APPLICATIONS THAT APPEAR ON A DRAWING FORMAT) (See SECTION 4)

10.15.1 Separate Wire List Use Authorization. A separate Wire List shall be made when contractually required. In doing so, the following requirements and procedures are to be followed:

10.15.2 Format

10.15.2.1 Company Forms Used For Manual Prepared Separate Wire List (WL). Company forms are used when preparing a manual wire list separate from drawings (See FIGURE 10-21.1), except when using automatic data processing techniques.

10.15.2.2 Title (Top) Sheet For Manual Prepared Separate Wire List (WL). A title sheet, when used, will be Page 1 of all Wire Lists (WL) (see FIGURES 10-15 and 10-15M). The title sheet may contain signatures, revision record of reissue of multiple sheets in their entirety and "Notes". "Next Assembly" and "Used On", columns are left blank and are entered beginning on sheet 2.

10.15.2.3 Wire List Purpose. A Wire List provides the information necessary for making wire connections for one or more sources to a terminating connection(s). A Wire List includes as applicable;

a. location identification and termination methods for each end of wire terminating on associated drawing;

b. a description of each wire (type, size and color);

c. connection of items with wire leads;

d. material (wire, sleeving, other required material) and process requirements for connections when they are not specified on the associated drawing;

e. reference to the associated drawing, connection diagram interconnection diagram or wire harness drawing.

10.15.3 Limitations For Separate Wire List (WL).

10.15.3.1 End Product Assembly. Assemblies listed on Wire lists separate from the drawing should be limited to end product assemblies.

10.15.3.2 Single Drawing Separate Wire List (WL). Multi-assemblies are not recommended on a single drawing when a Separate Wire List is required.

10.15.3.3 Wire List Requirement For Each Level Of Assembly. When Wire Lists are required, a Wire List shall be prepared for each assembly regardless of the level on which the assembly is used within the equipment or system.

10.15.4 Identification. Wire lists separate from drawings are identified by a document number including the basic drawing number preceded by the prefix "WL." Assemblies requiring separate identification should have different "WL" identifications including "shown" and "opposite" assemblies, e.g., WL1234567-1, WL1234567-2.

10.15.5 Cross Reference to a Separate Wire List (WL). When the wire list is separate from the drawing, a reference to the wire list document is made with a note in the parts list area. See FIGURE 10-1.

Example: **SEE SEPARATE WIRE LIST.**

10.15.6 Wire List (WL) Entries.

10.15.6.1 Order Of Precedence. Items are entered in separate wire lists starting at the top of the list and proceeding downward. The items should be listed in the order prescribed by PARAGRAPH 10.3.1.

10.15.6.2 Entries. Entries are made by either hand lettering or typing. Blank spaces may be left in the wire list between the category groupings to allow for later additions. The item's Find Number on the associated Parts Lists is placed in the "USE FIND NO." column. Horizontal separating lines between item entries are not mandatory. When separating lines are used, the spacing will be suitable for the height of the entry; no standard increment is required. New or superseding items may be either added chronologically in the list or added at the end of the list. Initial sequence need not be maintained after list revision. Entries are made in the blocks and columns of the Wire List (FIGURE 10-21.1) and listed as follows:

BLOCK 1, DESIGN ACTIVITY (Optional)) Block. The original design activity of a Government procurement activity or the name and address of the Contractor (or design activity) whose Commercial and Government Entity (CAGE) Code appears in block 2 shall be entered.

BLOCK 1(a), CONTRACT NUMBER (Optional) Block. Enter contract number under which the list is initially prepared Subsequent contract numbers to which the list may apply may be omitted from this block.

BLOCK 2, CAGE CODE (Optional) Block. Enter the Commercial and Government Entity Code designating the original design activity whose CAGE Code (if applicable) assigned to the associated drawing appears on all sheets.

BLOCK 3, ORIGINAL DATE (Mandatory) Block. Enter the date the Parts List was originally released. Express the date by YR-MO-DAY, e.g., 94-06-21

BLOCK 4, WIRE LIST (WL) NUMBER (Mandatory) Block. Enter the identifying number of the assembly drawing prefixed with the letters WL to which the list applies on each sheet of the list.

BLOCK 5, REVISION (Mandatory) See SECTION 23 herein.

BLOCK 6, LIST TITLE (Optional) Block. On sheet 1 enter the basic noun or noun phrase from the title of the drawing to which the list applies. When more than a single sheet is required to prepare or revise a list, the list title may be shown on each sheet; however, it is required only on the first sheet.

BLOCK 7, END ITEM or SYSTEM DESIGNATOR. (Mandatory) Enter the end item or system designator to which the list applies. When no designator has been assigned, the top assembly part number of the end item shall be entered.

BLOCK 8, APPROVAL SIGNATURE (Optional) Block). An approval signature, hand written or lettered, is entered in this block or cover sheet if used, at initial release of manually prepared lists. Signatures are not required on subsequent sheets or when entered on an optional cover sheet. Signatures are not required for machine (ADPS) prepared lists or may be mechanically printed.

BLOCK 9 REVISION AUTHORIZATION NUMBER Block. (Mandatory) The number of the revision authorization document, Drawing Change Notice (DCN), shall be entered when a revision description or revision record is not provided.

BLOCK 10, SHEET NUMBER (Mandatory) Block. Enter the appropriate sheet number on each sheet. The total number of sheets in the list shall be specified on the first sheet only. On Automatic Data Processing Systems (ADPSs) prepared sheets, the first or last sheet shall indicate the total number of sheets. Sheets 2, 3, etc., shall bear a sheet number only in this block.

e.g. SHEET 1 OF 6 – *First Sheet*

SHEET 3 – *Third Sheet*

COLUMN 11, WIRE RUNS (Mandatory). FROM-TO wire runs between terminals and informational columns for providing additional information or view identification.

COLUMN 12, WIRE NUMBER (Mandatory) Column. Enter the wire numbers in consecutive order or in order dictated by the terminal component. Single wires are listed by number only. Multiple wires are listed by a number and may also have consecutive alpha characters assigned. If wire is deleted, that wire number shall not be used for another purpose.

COLUMN 13, WIRE COLOR (Mandatory) Column). Enter the color of each wire, using abbreviations. If wires are multi-color, separate the colors with a / (slash).

COLUMN 14, WIRE SIZE AWG or METRIC (Mandatory) Column. Enter the gauge of each wire.

COLUMN 15, FROM (Mandatory) Column. Identification of the wire originating point (e.g., reference designator, terminal component, etc.), or the wiring harness stitch location of the wire cable.

COLUMN 16, NOTE OR VIEW (Optional) Column. Any information or view identification on the assembly drawing for connecting the wire.

COLUMN 17, TO (Mandatory Except for Installation Drawings Installing a Harness Assembly) Column. Identification of the wire terminating point, or the wiring harness stitch location of the wire or cable.

COLUMN 18, NOTE OR VIEW (Optional) Column. Any information or view identification on the associated drawing for connecting the wire.

COLUMN 19, FUNCTION, ROUTING, REMARKS (Optional) Column. The function or designation of the wire from the associated schematic or wiring diagram. Any specific routing requirements or remarks.

COLUMN 20, APPROX LENGTH (Optional) Column. The approximate length of the wire.

COLUMN 21, FIND NO. (Mandatory) Column. The item's find number on the associated Parts List. NOTE: When the item Find Number system is not used, PIN shall be used as the column header and the item's part number shall be entered in the column.

COLUMN 22 , REVISION LETTER (Mandatory) Column. Parts List shall include a Revision History Block at the bottom of the applicable list per FIGURE 10-21.1. Entries for revision letter, description, date and approval would be made in accordance with SECTION 23 of this DRM. A description of every change, addition or deletion processed shall be recorded either on a sheet of the affected list or on a separate revision notice referred to as a Document Change Notice (DCN). When the list is initially released, enter a dash (-) and release date on each sheet of the list. Each time a sheet of the list is revised, enter the appropriate Revision Letter and revision date on the revised sheet. When the revised list is reissued in its entirety, a new revision letter shall be entered on all sheets, including those that have not been revised. When an optional cover sheet is used, the release date need be entered on that sheet only. Separate wire lists are changed independently from the applicable drawings. There is no requirement that the drawing and a separate WL maintain the same revision letter.

COLUMN 23, DESCRIPTION/AUTHENTICATION (Mandatory) Column. A brief description of the change or a reference to the identity of the revision authorization document describing the change. (DCN or NOR).

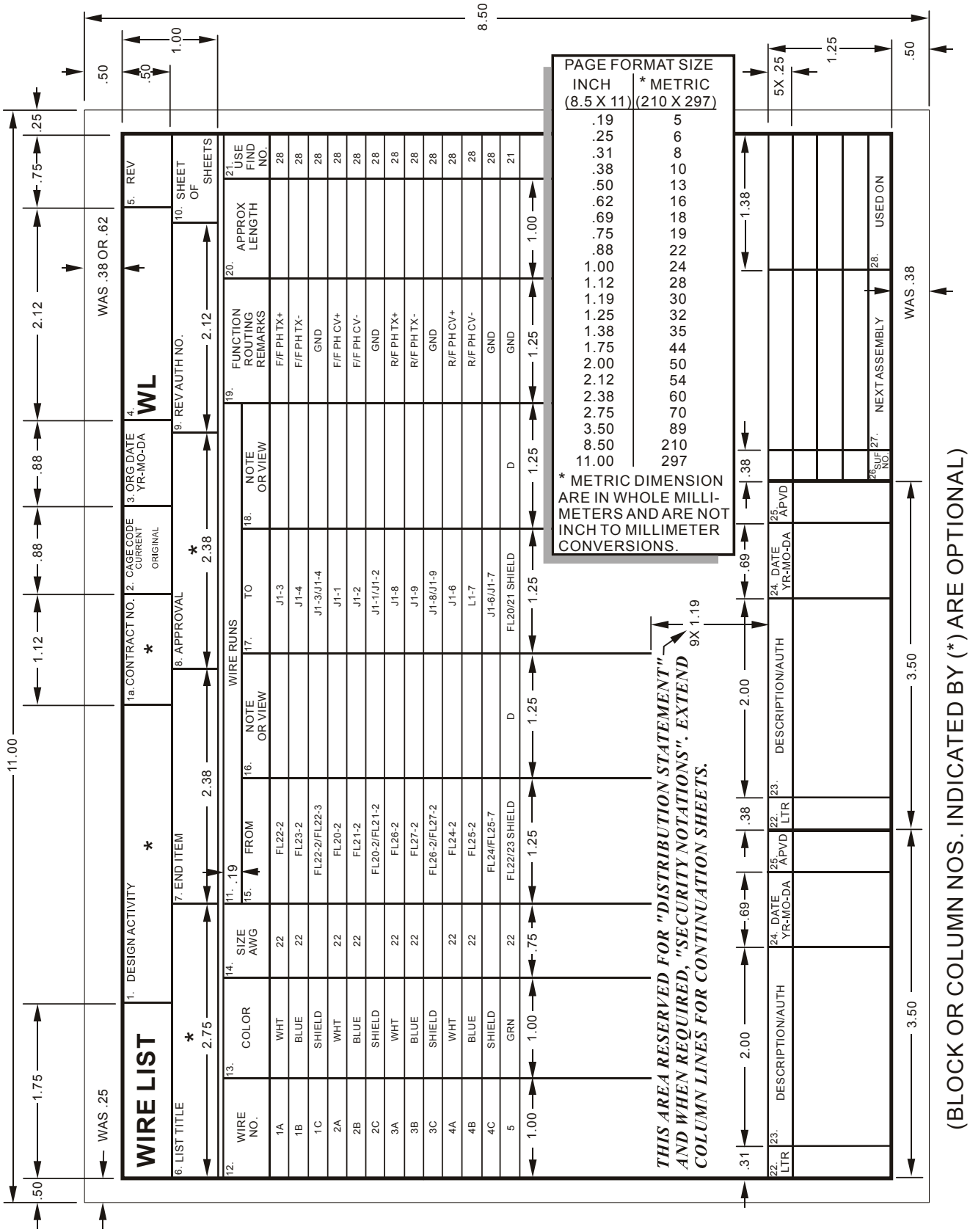
COLUMN 24, DATE (Mandatory) Column. Date entered at time approval column 25 is entered. Date shall be entered as YR-MO-DAY. e.g., 94-06-21.

COLUMN 25, APPROVED (Mandatory) Column. Certification of revision shall be entered in the Approval Column and date entered in the Date Column 24.

COLUMN 26, Suffix (DASH) NUMBER (Mandatory When Application List (AL) is Used) Column. Enter the suffix identifier (dash) for each item detailed or assembled on the engineering drawing which is a component of an assembly detailed on another drawing. When the item is identified on the engineering drawing by an identifier suffix (dash) system, only that suffix need be entered.

COLUMN 27, NEXT ASSEMBLY (Mandatory When Application List (AL) is applied)) Column. Enter the part number of the engineering drawing detailing the next assembly of which the item is a component. When the drawing depicts the final deliverable item, enter the word “FINAL”. When a Title (Top) Sheet is used, the “Next Assembly” column may be used in lieu of column 27 of the Wire List (WL).

COLUMN 28, USED ON (Mandatory When Application List (AL) is Applied) Column. Enter the model number or other designation of the assembled unit(s) or end item assigned to the program of which the item is a component. When a Title (Top) Sheet is used, the “Used On” Column may be used in lieu of Column 28 of the Wire List (WL).



"SUGGESTED" WIRE LIST (WL).
FIGURE 10.21.1

10.16 GENERAL REQUIREMENTS FOR "AUTOMATIC DATA PROCESSING SYSTEM" (ADPS) PARTS LIST (PL), DATA LIST (DL), INDEX LIST (IL) AND INDENTURED DATA LIST (ID) PREPARED BY UTILIZATION OF AUTOMATIC DATA PROCESSING TECHNIQUES.

10.16.1 Preprinted Format Not Required. Preprinted formats need not be utilized if normal machine operations can duplicate format headings and listings commensurate to preprinted forms used for manually prepared Parts, Data, Index and Indentured Lists.

10.16.2 Dimension Size Of Paper Stock. Size of Automatic Data Processing System (ADPS) listings shall be commensurate with machine capability and normal size, marginally punched, continuous blank paper stock. See FIGURES 10-22 and 10-23.

CLASSIFICATION

PA RTS LIST PL-11743133 FRANKFORD ARSENAL CONTRACT NO. REV. DATE 991112
DOCUMENT / PART NUMBER F-11743133 PHILADELPHIA, PA REVISION LETTER B
WIRING HARNESS, BRANCHED CURRENT CAGE CODE 19200 SHEET 1 OF 1
CHANGE CONTROL NUMBER F59541B AUTHENTICATIONAL ORIGINAL CAGE CODE ORIG. DATE 740131

FND NO.	QTY REQ	UNIT MEAS	CAGE CODE	PART OR IDENTIFYING NO.	DRAWING/DOCUMENT SIZE	NUMBER	NOMENCLATURE OR DOCUMENT TITLE	SUP LST
	1			11738017-2	B	11738017	CONNECTOR, RECEPTACLE, ELECTRICAL	
	1			11738913	B	11738913	CONNECTOR, ELECTRICAL	
	1			11738920	B	11738920	CONTACT, PLUG RECEPTACLE	
	1			11741514	B	11741514	CONNECTOR, RECEPTACLE ELECTRICAL - 23 PIN	
				REFERENCE DWG	F	11743132	ELECTRONICS UNIT, SCHEMATIC DIAGRAM	
	1			11743316	F	11743316	BOARD ASSY, INTERCONNECTING	X
	1			11743330-1	C	11743330	STRAP, CABLE IDENTIFICATION	
	1			11743331	D	11743331	TERMINAL BOARD ASSY	X
	1			11743698-1	C	11743698	CONNECTOR, RECEPTACLE, ELECTRICAL, HERMETIC	
	1			11743698-2	C	11743698	CONNECTOR, RECEPTACLE, ELECTRICAL, HERMETIC	
	1			11743698-3	C	11743698	CONNECTOR, RECEPTACLE, ELECTRICAL, HERMETIC	
	AR			11745399	A	11745399	WIRE HARNESS, FABRICATION & ROUTING, PROCESS FOR	
	AR			11745401	A	11745401	TERMINATING SHIELDING WIRES, PROCESS FOR	
	AR			11745403	A	11745403	CABLE & HARDNESS CONNECTORS, ASSY, PROCEDURE FOR	
	AR			11745477	A	11745477	IDENT OF ELEC WIRES, CA SLVG, AND PTS BY PRINTING PRCS	
	AR			MIL-W-16878-CSO		MIL-W-16878	JACKET, FLUOROCARBON, COLOR OPTIONAL	
	AR			MIL-W-16878-CW		MIL-W-16878	JACKET, FLUOROCARBON, COLOR WHITE	
	AR			MIL-W-16878-S30		MIL-W-16878	BRAID, SHIELD, SIZE 30, SILVER PLATED, COPPER	
	AR			MIL-W-16878-S36		MIL-W-16879	BRAID, SHIELD, SIZE 36, SILVER PLATED, COPPER	
	AR			MMM-A-134		MMM-A-134	ADHESIVE, EPOXY RESIN, METAL TO METAL STRUCTURAL BONDING	
	1			MS3723-12H1832N		MIL-C-83723/12	CONNECTOR, ELECT, RECEPTACLE, SINGLE HOLE MOUNT, CLASS H	
	AR			RG316/U		MIL-C-17/113	CABLE, RADIO FREQUENCY, COAXIAL	
	AR			TE-20-195-C-B		MIL-W-16878/4	WIRE, TEFLON INSULATED, TYPE E-20, 19 STRANDS, COLOR BLACK	
	AR			TE-20-195-C-W		MIL-W-16878/4	WIRE, TEFLON INSULATED, TYPE E-20, 19 STRANDS, COLOR WITE	
	AR			TE-22-195-C-BR		MIL-W-16878/4	WIRE, TEFLON INSULATED, TYPE E-22, 19 STRANDS, COLOR BROWN	
	AR			16878/4E22-19B		MIL-W-16878/4	WIRE, INSUL, 22 AWG, 19 STRANDS, COLOR BLACK	
	AR			16878/4E22-19S		MIL-W-16878/4	WIRE, TEFLON, INSULATED, TWISTED PR TYPE E22, 19 STRANDS	
	AR			16878/4E22-19W		MIL-W-16878/4	WIRE, INSULATED, 22 AWG, 19 STRANDS, COLOR WHITE	

DISTRIBUTION STATEMENT

SECURITY NOTATIONS

CLASSIFICATION

"SUGGESTED"
AUTOMATIC DATA PROCESSING SYSTEM (ADPS
FROM DIGITAL DATA PARTS LIST (PL).
FIGURE 10-22
NOTE: ADPS may be a continuous runout. See PARAGRAPH 10.12.1.1.

This sample is informational only and complete to the degree necessary to illustrate a type of ADPS list. Actual format and list shall conform to the textual requirements set forth in this section and normal automatic machine operations utilized.

DATA LIST DL-8267742 FRANKFORD ARSENAL CONTRACT NO. REV. DATE
DOCUMENT / PART NUMBER B 8267742 PHILADELPHIA, PA REVISION LETTER
SEGMENT ASSEMBLY CURRENT CAGE CODE 19200 SHEET 1 OF 4
CHANGE CONTROL NUMBER AUTHENTICATIONAL ORIGINAL CAGE CODE ORIG. DATE 740131

PRODUCT DRAWINGS AND LISTS

CODE ID.	PRE-FIX CODE	DWG SIZE	DOCUMENT NUMBER	NUMBER OF SHEETS	NOMENCLATURE OR DOCUMENT TITLE
		A	7586885	1	NUT, ROUND
	PS		7586888	1	PKG DATA SHT - NUT, ROUND
		A	7586888	1	RETAINER
	PS		7586888	1	PKG DATA LIST - RETAINER
	SQ		7586888	2	SQAP - RETAINER
		A	7586889	1	WASHER
	PS		7586889	1	PKG DATA SHT - WASHER
		A	7586890	1	SEPARATOR
	PS		7586890	1	PKG DATA SHT
		B	8267742	1	SEGMENT ASSEMBLY
	PL		8267742		PARTS LIST - SEGMENT ASSEMBLY
	PS		8267742	1	PKG DATA SHT - SEGMENT ASSEMBLY
		C	8267743	1	GEAR SECTOR
	PS		8267743	1	PKG DATA SHT - GEAR SECTOR
	SQ		8267743	3	SQAP - GEAR SECTOR
		B	8267786	1	STOP
	PS		8267786	1	PKG DATA SHT - STOP
21450			CAQX6	1	BEARING, BALL, SGL ROW, RADIAL, NON LOG GROOVE ASSY
96906			MS91960		SCREW, MACH-FL CTSK, HD 82, X-REC, CRES STL, PSVT, UNC-2A

DATA LIST DL-8267742 FRANKFORD ARSENAL CONTRACT NO. REV. DATE
DOCUMENT / PART NUMBER B 8267742 PHILADELPHIA, PA REVISION LETTER
SEGMENT ASSEMBLY CURRENT CAGE CODE 19200 SHEET 2
CHANGE CONTROL NUMBER AUTHENTICATIONAL ORIGINAL CAGE CODE ORIG. DATE 740131

PACKAGE DRAWINGS AND ASSOCIATED DOCUMENTS

QPL	DOCUMENT NUMBER	NOMENCLATURE OR DOCUMENT TITLE
	PPP-B-636	BOX, FIBERBOARD
	PPP-C-1797	CUSHIONING MATERIAL, RESILIENT, LOW DENSITY, UNICELLULAR
	PPP-P-291	PAPERBOARD, WRAPPING, CUSHIONING
	PPP-T-76	TAPE, PRESSURE - SENSITIVE ADHESIVE PAPER, WATER RESISTANT
	FED-STD-595	COLORS
	MIL-P-116	PRESERVATION, METHODS OF
	MIL-B-117	BAG, SLEEVE AND TUBING - INTERIOR PACKAGING
Q	MIL-B-121	BARRIER MATERIAL, GREASEPROOFED, WATERPROOFED, FLEXIBLE
	MIL-P-130	PAPER, WRAPPING, LAMINATED AND CREPED

"SUGGESTED"
AUTOMATIC DATA PROCESSING SYSTEM (ADPS)
FROM DIGITAL DATA; DATA LIST (DL).
FIGURE 10-23 (1 of 2)

NOTE: ADPS may be a continuous runout. See PARAGRAPH 10.12.1.1.

This sample is informational only and complete to the degree necessary to illustrate a type of ADPS list. Actual format and list shall conform to the textual requirements set forth in this section and normal automatic machine operations utilized.

DATA LIST DL-8267742 FRANKFORD ARSENAL CONTRACT NO. REV. DATE
DOCUMENT / PART NUMBER B 8267742 PHILADELPHIA, PA REVISION LETTER
SEGMENT ASSEMBLY CURRENT CAGE CODE 19200 SHEET 3
CHANGE CONTROL NUMBER AUTHENTICATIONAL ORIGINAL CAGE CODE ORIG. DATE 740131

INSPECTION EQUIPMENT DRAWINGS AND LISTS

CODE ID.	PRE-FIX CODE	DWG SIZE	DOCUMENT NUMBER	NUMBER OF SHEETS	NOMENCLATURE OR DOCUMENT TITLE
		B	7290675	1	GO THREAD RING GAGE
		B	7292349	1	GO THREAD SETTING PLUG GAGE
		B	7292390	1	NOT GO THREAD RING GAGE
		B	7292391	1	NOT GO SETTING PLUG GAGE
		F	7659410	27	ACCURACY TEST FIXTURE FOR GEARS
		F	8576041	1	ADAPTER FOR GEAR SECTOR 8267743

DATA LIST DL-8267742 FRANKFORD ARSENAL CONTRACT NO. REV. DATE
DOCUMENT / PART NUMBER B 8267742 PHILADELPHIA, PA REVISION LETTER
SEGMENT ASSEMBLY CURRENT CAGE CODE 19200 SHEET 4
CHANGE CONTROL NUMBER AUTHENTICATIONAL ORIGINAL CAGE CODE ORIG. DATE 740131

SPECIFICATIONS AND STANDARDS

QPL	DOCUMENT NUMBER	NOMENCLATURE OR DOCUMENT TITLE
	C-F-206	FELT
	U-T-634	TRICHLORDETHYLENE, TECHNICAL
Q	FF-B-171	BEARINGS, BALL, ANNULAR / GENERAL PURPOSE /
	FF-S-92	SCREW, MACHINE, SLOTTED OR CROSS-RECESSED
	QQ-B-626	BRASS, LEADED AND NON-LEADED ROD, SHAPES, FORGINGS, ETC.
	QQ-I-652	IRON CASTING, GRAY
	QQ-S-763	STEEL BARS, SHAPES AND FORGINGS -CORROSION RESISTING
	QQ-S-764	STEEL BARS, CORROSION RESISTING, FREE MACHINING
	QQ-T-570	TOOL STEEL, ALLOY
	TT-C-490	CLEANING METHODS AND PRETREATMENT OF FERROUS SURFACES
Q	TT-E-529	ENAMEL, ALKYO, SEMI-GLOSS
Q	TT-P-636	PRIMER COATING, ALKYO, WOOD AND FERROUS METAL
Q	TT-P-664	PRIMER, COATING, SYNTHETIC, RUST INHIBITING
	UU-T-106	TAPE, PRESSURE-SENSITIVE ADHESIVE, MASKING PAPER
Q	VV-L-800	LUBRICATING OIL, GENERAL PURPOSE PRESERVATIVE
	GGG-G-61	GAGE, PLUG AND RING, PLAIN AND THREADED
Q	MIL-L-3150	LUBRICATING OIL, PRESERVATIVE, MEDIUM
	MIL-S-13048	STEEL FORGING, / FOR GENERAL PURPOSE APPLICATIONS /
	MIL-P-14232	PART, EQUIPMENT AND TOOLS FOR ARMY MATERIAL PKG OF
	MIL-F-45133	FIRE CONTROL COMPONENTS AND ASSEMBLIES
	MIL-I-45208	INSPECTION SYSTEM REQUIREMENTS
	MIL-STD-105	SAMPLING PROCEDURES AND TABLES FOR INSP BY ATTRIBUTES
	MIL-STD-194	SYSTEM FOR PAINTING AND FINISHING F C MATERIAL
	MIL-STD-1242	MACHINING STANDARD FOR FIRE CONTROL MATERIAL
	100-46	FELT, HAIR OR WOOL MILDUE RESISTANT AND MOSITURE RES,
	51-70-1	SYSTEM FOR PAINTING & FINISHING FIRE CONTROL MATERIAL

TOTAL NUMBER OF SHEETS 4

"SUGGESTED"
AUTOMATIC DATA PROCESSING SYSTEM (ADPS)
FROM DIGITAL DATA; DATA LIST (DL).
FIGURE 10-23 (2 of 2)

This sample is informational only and complete to the degree necessary to illustrate a type of ADPS list. Actual format and list shall conform to the textual requirements set forth in this section and normal automatic machine operations utilized.

10.16.3 Content And Information Of Machine Prepared PL, DL IL and ID. The same content and information provided by manually prepared lists on preprinted formats are also required in automatic prepared lists with certain exceptions as indicated by Parts List (PL) Entries PARAGRAPH 10.11.6, Data List (DL) Entries PARAGRAPH 10.12.4, Index List (IL) Entries PARAGRAPH 10.13.3, Indentured Data List (ID) Entries PARAGRAPH 10.14.3 and as shown in TABLE 10-1.

REQUIREMENT	TYPE OF LIST				MANUALLY PREPARED	AUTOMATICALLY PREPARED (ADPS)
	PL	DL	IL	ID		
PREPRINTED FORMATS	√	√	√	√	YES	NO
FIRST SHEET SHALL INDICATE THE TOTAL NUMBER OF SHEETS	√	√	√	√	YES	FIRST OR LAST SHEET
AUTHENTICATION SIGNATURE AT INITIAL RELEASE	√	√			YES	NO
SEPERATE PAGE REQUIRED FOR EACH OF FOUR SECTIONS		√			YES	NO (CONTINOUS COMPUTER RUNOUT OK)
USE OF REVISION COLUMN	√	√	√	√	YES	NO IF NOT MAINTAINED OPTIONAL WHEN MAINTAINED

WHERE:

PL = PARTS LIST
DL = DATA LIST
IL = INDEX LIST
ID = INDENTURED LIST

OPPOSITELY OPPOSED REQUIREMENTS FOR
MANUAL OR AUTOMATED (ADPS) PREPARED ASSOCIATED DRAWING LISTS.
TABLE 10-1

10.17 PARTS LIST (PL) CALLOUT CROSS-REFERENCE TO GENERAL NOTES.

10.17.1 Use Of General Notes In Conjunction With Parts Lists. A general note is used to establish application requirements that are not otherwise covered by an existing specification, or other acceptable document, or when space will not permit entry of all necessary information.

10.17.2 General Notes To Be Short And Concise. When requirements are established by a general note, the note is limited to concise statements.

10.17.3 General Notes Too Complex Will Become Company Specifications. If lengthy or complex data is required to provide adequate information that is not covered by an existing document, the responsible designer initiates action for preparation of an appropriate company specification.

10.17.4 General Notes Created By Parts List (PL) Reference. The following notes illustrate the type of general note coverage intended to be included on the engineering drawing. They may be varied to suit individual requirements. See SECTION 9.

10.17.4.1 Abbreviations Not Listed in ASME Y14.38. Abbreviations not listed in ASME Y14.38 shall be listed and identified as a General Note or on the field of the drawing.

ABBREVIATIONS APPLICABLE AND USED ON THIS DRAWING.

BI	BULK ITEM
PP	PURCHASED PART
SOCD	SOURCE CONTROL DRAWING
VICD	VENDOR ITEM CONTROL DRAWING

10.17.4.2 Permissible To Use. Alternate part number and CAGE Code when required in place of parts list number.

10.17.4.3 Customer Furnished And Controlled Item. Company name and location. List division if applicable.

NOTES: