RR-T-51D May 23, 1972 SUPERSEDING Fed. Spec. RR-T-51C May 23, 1966

### FEDERAL SPECIFICATION

### TABLEWARE AND FLATWARE - SILVERPLATED

This specification was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

- 1. SCOPE AND CLASSIFICATION
- 1.1 Scope. This specification covers silverplated tableware (hollowware) and flatware of a grade equal to high-quality hotel and restaurant items.
- 1.2 Classification. Tableware and flatware shall be of the following types and items, as specified (see 6.2).

## Type I - Tableware

Items: 1 - Bowl, food serving (figure 1) 2 - Bowl, sugar (figure 2) 3 - Caster, cruet (figure 3, 3A and 3B) 4 - Coffee pot, serving, 32-ounce (figure 4 and 4A) 5 - Dish, food serving, 8 inch diameter (figure 5) 6 - Dish, food serving rectangular (figure 6) 7 - Gravy boat (figure 7) 8 - Pitcher, cream 8-ounce (figure 8) 9 - Pitcher, cream 16-ounce (figure 9) 10 - Pitcher, syrup 9-ounce (figure 10) 11 - Pitcher, water 5-1/2 quart (figure 11) 12 - Platter, food serving (figure 12) 13 - Teapot, serving, 22-ounce (figure 13) 14 - Tray service, 12-inch (figure 14) 15 - Tray service, 18-inch (figure 15 and 15A) 16 - Tray, bread (figure 16 and 16A) 17 - Tureen, soup with cover, 64 ounce (figure 17)

## Type II - Flatware

Items: 1 - Fork, dessert (figure 18)
2 - Fork, oyster (figure 19)

3 - Fork, salad (figure 20)
4 - Fork, table (figure 21)
5 - Knife, dessert (figure 22)
6 - Knife, table (figure 23)
7 - Spoon, bouillon (figure 24)
8 - Spoon, demitasse (figure 25)
9 - Spoon, dessert (figure 26)
10 - Spoon, iced tea (figure 27)
11 - Spoon, soup (figure 28)
12 - Spoon, sugar (figure 29)
13 - Spoon, table (figure 30)
14 - Spoon, tea (figure 31)
15 - Ladle, gravy, table (figure 32)

### APPLICABLE DOCUMENTS

2.1 The following documents, of the issues in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein:

# Federal Specifications:

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PPP-B-566 - Boxes, Folding, Paperboard.

PPP-B-636 - Eox, Fiberboard.

PPP-B-676 - Boxes, Setup.
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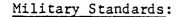
## Federal Standard:

Fed. Std. No. 123 - Marking for Domestic Shipment (Civil Agencies).

(Activities outside the Federal Government may obtain copies of Federal Specifications, Standards, and Handbooks as outlined under General Information in the Index of Federal Specifications and Standards and at the prices indicated in the Index. The Index, which includes cumulative monthly supplements as issued, is for sale on a subscription basis by the Superintendent of Documents, U. S. Government Printing Office, Washington, DC 20402.

(Single copies of this specification and other Federal Specifications required by activities outside the Federal Government for bidding purposes are available without charge from Business Service Centers at the General Services Administration Regional Offices in Boston, New York, Washington, DC, Atlanta, Chicago, Kansas City, MO, Fort Worth, Denver, San Francisco, Los Angeles, and Seattle, WA.

(Federal Government activities may obtain copies of Federal Specifications, Standards, and Handbooks and the Index of Federal Specifications and Standards from established distribution points in their agencies.)



MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.

MIL-STD-129 - Marking for Shipment and Storage.

(Copies of Military Specifications and Standards required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.

# American Society for Testing and Materials (ASTM) Standards:

- A 176 Stainless and Heat-Resisting Chromium Steel Plate, Sheet, and Strip.
- B 298 Silver-Coated Soft or Annealed Copper Wire.
- E 18 Rockwell Hardness and Rockwell Superficial Hardness of Metallic Material, Test for.

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

# National Motor Freight Traffic Association, Inc., Agent

National Motor Freight Classification

(Application for copies should be addressed to the American Trucking Associations, Inc., Tariff Order Section, 1616 P Street, N. W., Washington, DC 20036.)

# Uniform Classification Committee, Agent

Uniform Freight Classification

(Application for copies should be addressed to the Uniform Classification Committee, Room 1106, 222 South Riverside Plaza, Chicago, Illinois 60606.)

(Technical society and technical association specifications and standards are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.)



## 3. REQUIREMENTS

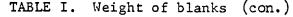
- 3.1 First article. When specified (see 6.2), the supplier shall furnish a sample for first article testing and approval (see 4.2, and 6.6).
- 3.2 <u>Standard product</u>. The plated items shall be the manufacturer's current, standard commercial product, except for any changes necessary to comply with specification requirements.
- 3.3 Materials. Materials not definitely specified shall be of the quality normally used by the manufacturer in commercial practice for high quality hotel and restaurant silver-plated flatware and holloware provided the completed items comply with all the provisions of this specification. Commercial tolerances are applicable to all material thicknesses and diameters.
- 3.3.1 <u>Nickel brass sheet</u>. Nickel brass sheet specified herein shall be 10 percent nickel brass (also known as "nickel silver") with a minus tolerance of 1 percent nickel.
- 3.3.2 <u>Corrosion-resisting steel</u>. Corrosion-resisting steel shall conform to type 410, 429, 430 or the 440 series of ASTM A176-71.
- 3.4 <u>Design and construction</u>. Tableware and flatware shall conform to the design, configuration and pattern shown on figures 1 through 32, as applicable. The pattern shall be sharp and clearly defined. The scales on the figures are provided as a convenient means for determining item proportions.

# 3.4.1 Base metal.

- 3.4.1.1 Unless corrosion-resisting steel conforming to 3.3.2 is specified (see 6.2), type I tableware and type II flatware, except knife blade see 3.4.3, shall be fabricated from nickel brass conforming to 3.3.1.
- 3.4.1.2 Weights of spoons and forks blanks. Minimum weights of blanks for the type II items shall be as specified in table I.

TABLE I. Weight of blanks

Item	Avdp. 1bs. per gross
Forks:	
Dessert Table	16.0
Oyster	18.0 8.0
Salad	17.0



<b>-</b> .	Avdp. 1bs.
Item	per gross
Spoons:	
Bouillon	9.0
Demitasse	4.0
Dessert	17.0
Iced tea	11.0
Soup	17.0
Sugar	13.0
Table	24.0
Tea	11.0
Ladle gravy	28.0

- 3.4.1.3 Wall thickness. The minimum wall thickness of type I items shall be .038 inch except for type I item 17 which shall conform to thickness requirements shown on figure 17.
- 3.4.1.4 <u>Fractional fabricating tolerances</u>. Unless otherwise specified hereinafter fractional tolerances for type I and type II items shall be plus or minus 1/4 inch.
- 3.4.2 <u>Silver plating</u>. Silver plating weight and thickness values specified herein shall be determined in accordance with 4.4.3 and 4.4.4, respectively.
- 3.4.2.1 Quantity of silver. The quantity of silver applied to each item shall represent an average thickness of at least 0.00125 inch or 1 troy ounce per square foot (see 6.4).
- 3.4.2.2 Weight of silver. The weight of silver on type II flatware shall be as specified in table II. The back of the bowls of type II items 7 through 15 and the tines of type II items 1, 2, 3, and 4 shall have on the center line of the bearing surface, a coating of silver not less than 0.0018 inch thick at the thickest point.

TABLE II. Weight of silver

Item	Req'd. wt. of silver troy oz./gross
	02.781035
Forks:	
Dessert	15
Table	18
Oyster	. 7
Salad	15
Knives:	
Dessert hollow handle (handle only)	. 8
Table hollow handle (handle only)	10
Spoons:	
Bouillon	9
Demitasse	9 7
Dessert	15
Iced tea	10
Soup	15
Sugar	13
Table	18
Tea	9
Ladle gravy	25

- 3.4.2.3 Adhesion. When tested as specified in 4.4.5, the silver plating shall show no evidence of blistering.
- 3.4.3 <u>Knife blades</u>. The blades of knives shall be fabricated from corrosion-resisting steel as specified in 3.3.2. Blades shall have a Rockwell "C" hardness ranging from 40 to 58 when tested as specified in 4.4.1 and shall show no visible indications of staining when tested as specified in 4.4.2.
- 3.4.4 <u>Nonconducting handles</u>. When nonconducting handles are specified (see figure 13), they shall consist of or be provided with insulators fabricated from wood, fiber, or such other material normally used by the manufacturer for the purpose in commercial practice.



# 3.4.5 Soldering and cementing.

- 3.4.5.1 When soldering is required on hollowware items, hard or silver solder shall be used except that soft solder may be used where contact with white metal or insulators is indicated.
- 3.4.5.2 Shells of hollow handle cutlery shall be silver soldered. Blades and times may be soldered into the handles with soft solder or may be secured by a nontoxic cement (see 6.5) in accordance with commercial practice.
  - 3.5 Finish. Finished items shall have a Butler finish.
- 3.6 <u>Marking</u>. Each item shall be clearly and permanently marked with the manufacturer's name, tradename or trademark of such known character easily identifiable with said manufacturer. The surface opposite the markings shall show no signs of penetration.
- 3.7 Workmanship. Finished items shall be clean, well made, and free from any defect which may affect appearance or serviceability. Except for specified cutting edges or fork tine tips, there shall be no sharp edges, projections, burrs, rough die, tool, gouge, or grind marks, or burn marks. Silver plating shall be smooth, fine grained, adherent, and free from visible blisters, pits, porosity, and indications of burning or excessive edge build up. The finished items shall not be fractured, dented, bent, punctured, or malformed.

## 4. QUALITY ASSURANCE PROVISIONS

- 4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements.
- 4.2 First article inspection. When a first article is required, it shall be examined for defects listed in table III and specified dimensions, and tested as specified in 4.4.1 through 4.4.5, as applicable. The presence of any defects listed in table III or any dimension not within specified requirements shall be cause for rejection of the first article.
- 4.3 <u>Inspection</u>. Sampling for inspection shall be performed in accordance with MIL-STD-105, except where otherwise indicated hereinafter.



- 4.3.1 Component and material inspection. In accordance with 4.1 above, components and materials shall be inspected and tested in accordance with all the requirements of referenced specifications and standards unless otherwise excluded, amended, modified, or qualified in this specification or applicable purchase document.
- 4.3.1.1 Weight of blank. One gross of each item from a production lot shall be weighed to determine conformance with table I. Nonconformance with the weight requirement shall be cause for rejection of the lot.
- 4.3.2 <u>Process examination</u>. Examination shall be made to establish that soldering and cementing is in conformance to specified requirements of 3.4.5. If nonconformance is noted, correction shall be made to the affected items and process.
- 4.3.3 End item inspection. The sample unit for this inspection shall be one completely finished item of tableware or flatware. The inspection lot shall be all the items of one type and configuration offered for delivery at one time.
- 4.3.3.1 <u>Visual examination</u>. Examination shall be made of the plated items for defects in table III. The inspection level shall be level II with an acceptable quality level (AQL) of 1.5 major defects and 4.0 for total defects expressed in terms of defects per hundred units.

TABLE III. Classification of defects

		Classification		
Examine Defects		Major	Minor	
Finish	Any component not finished as	•		
	specified	X .		
	Area of rust, pits, or scale Any component surface containing	X		
	embedded foreign materials Any component surface containing	X		
	cracks, burrs, or dents Any component surface not clean or	X		
	smooth	X		
Construction and workmanship	Any characteristic or detail of design or construction not in accordance with			
	specific requirements	X		



# TABLE III. Classification of defects (con.)

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		Classification	
Examine	Defects	Major	Minor
Construction and	Component missing	. <b>X</b>	
workmanship (con.)	Burrs, sharp corners, or projections which may cause injury	Х	
	Any component bent, misshapen, deformed, distorted, or misaligned Knife blade not uniformly ground and	Х	
	cutting edge not sharpened Knife cutting edge broken in any place	X	
	or contains nicks, or burrs	X	
	Knife or fork blade loose in handle Soldering not smooth, fractured, cracked, not fused, or missing	Х	
	where required Silver plating not smooth, not fine grained, and, not free from blisters, porosity, indications of burning, or excessive edge build up	х  х	
Identification	Missing, not legible, imcomplete, incor- rect or not in proper location Surface opposite markings show signs		х
	of penetration	X	

- 4.3.3.2 <u>Dimensional examination</u>. Examination shall be made of the end items for compliance with dimensions specified. Any dimension not within the specified requirements shall constitute a defect. The examination level shall be S-2 with an AQL of 4.0 defects expressed in terms of defects per hundred units.
- 4.3.3.3 Testing of the end item. Sample units shall be tested in accordance with 4.4. The sample size, except for 4.4.3.3, shall be 3 items of tableware or flatware, as applicable, selected from each inspection lot. Failure of any sample to pass any applicable test specified in 4.4 shall be cause for rejecting the lot.
- 4.3.4 Examination of preparation for delivery. An examination shall be made to determine that packaging, packing, and marking as required by section 5 are complied with. Defects shall be as indicated in table IV. The sample unit shall be one shipping container fully prepared for delivery. The lot size shall be the number of containers in the inspection lot. The inspection level shall be S-2 with an AQL of 2.5 defects, expressed in terms of defects per hundred units.



TABLE IV. Preparation for delivery defects

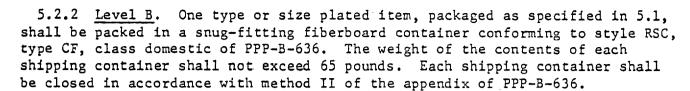
Examine	Defects			
Markings (exterior and interior container)	Omitted; incorrect; illegible; of improper size, location, sequence, or method of application.			
Materials	Any nonconforming component: component missing, damaged, or otherwise defective affecting serviceability.			
Contents (exterior and interior container)	Number per container is more or less than required. Net weight exceeds requirements.			

- 4.3.4.1 Examination of shipping containers. When shipping containers are required to be in accordance with PPP-B-636, examination for defects in closure, waterproofing, and strapping shall be in accordance with PPP-B-636.
  - 4.4 Tests.
- 4.4.1 <u>Hardness</u>. Samples shall be tested for compliance with 3.4.3 as specified in ASTM El8. Hardness readings shall be determined at a minimum of 3 locations; point, center, and 1 inch from the shoulder of the knife blade. Any hardness reading not within specified limits shall be considered failure of this test.
- 4.4.2 <u>Corrosion test</u>. Samples shall be tested as follows for compliance with 3.4.3. Three drops of copper sulphate solution shall be placed at intervals on the cleaned surface of the blade of each sample. After remaining on the blade for 6 minutes, the solution shall be washed off with clean water. Any visible indication of staining shall be considered failure of this test. The copper sulphate solution shall consist of:

Copper sulfate (CU $SO_4$ $5H_2O$ ) Sulfuric acid ( $H_2SO_4$ ) (sp. gr. 1.84)		grams ml.
Water (H <sub>2</sub> O)	90	ml.

- 4.4.3 Weight of silver test. Samples shall be tested as specified in 4.4.3.1 or 4.4.3.2 (as applicable); or, 4.4.3.3 for compliance with 3.4.2.1. Any plating weight not within specified limits shall be considered noncompliance. Unless a minimum weight is specified, a minus tolerance of 15 percent shall be permitted on individual samples; and, a 5 percent permitted on the average of 3 or more samples. The surface plated area and deposit weights specified shall be determined in accordance with the manufacturer's commercial practice for the determinations on the same or similar items (see 6.4).
- 4.4.3.1 On nickel brass. The samples shall be thoroughly cleaned, rinsed, dried, and weighed. They shall then be introduced into a suitable vessel containing a mixture of 19 parts of volume of C.P. concentrated sulfuric acid (sp. gr. 1.84) and 1 part by volume of C.P. concentrated nitric acid (sp. gr. 1.42) which mixture has been heated (e.g. on a sand bath) to 80° C. (176° F.). (The stripping bath shall be kept covered when not in use to prevent absorption of water.) The samples shall be kept in the solution until all the silver is dissolved, as indicated by the production of a dark color over the entire surface. The samples shall then be thoroughly rinsed, dried, and reweighed; and, the loss in weight shall be considered as silver.
- 4.4.3.2 On corrosion-resisting steel. The samples shall be throughly cleaned, rinsed, dried, and weighed; and, shall then be hung as anodes in a solution containing 30 g/L (4 oz./gal.) of sodium cyanide, in which an iron or silver cathode is suspended. A potential of 3 to 4 volts shall be applied and the samples shall be shaken or the solution agitated until all the silver is dissolved. The samples shall then be thoroughly rinsed, dried, and reweighed; and, the loss in weight shall be considered as silver.
- 4.4.3.3 Alternate method. Weigh one or more pieces from each gross or 100 pieces before plating and after plating and finishing, to determine whether specified amount of silver is present.
- 4.4.4 Thickness of silver test. Samples shall be tested as specified in 4.4.4.1 or 4.4.4.2 for compliance with 3.4.2.1 and 3.4.2.2. Any silver plating thickness not within specified limits shall be considered noncompliance.
- 4.4.4.1 The samples shall be measured in accordance with the appendix to ASTM B 298.
- 4.4.4.2 Plate that portion of the samples to be measured with copper, from an acid copper sulphate solution, to a thickness of at least 0.01 inch. Then cut, with a fine saw, along the center axis of the portion to be plated with copper. Carefully polish the cut surface on a plane perpendicular to the original surface of the sample until all saw marks and polishing scratches are obliterated; and measure the thickness of the silver coating with a suitable microscope and scale.

- 4.4.5 Adhesion test. Samples shall be tested as follows for compliance with 3.4.2.3: The samples shall be placed in an oven at 135° to 177° C. (275° to 350° F.) for the time required to bring the samples to temperature plus 30 minutes. The samples shall then be removed, cooled in air, and examined at four diameters magnification. Any evidence of blistering shall be considered noncompliance.
  - 5. PREPARATION FOR DELIVERY
  - 5.1 Packaging. Packaging shall be level A or C, as specified (see 6.2).
  - 5.1.1 Level A.
- 5.1.1.1 Unit packaging. Each plated item shall be packaged in a polyethylene bag of 0.002 inch minimum thickness with all closures and seams heat sealed. Tines of forks and blades of knives shall be covered with a sheath of paper-board or similar cushioning material to avoid puncturing the bag. Sharp edges of hollowware items shall be suitably covered to avoid puncturing the bag.
  - 5.1.1.2 Intermediate packaging.
- 5.1.1.2.1 Flatware. Twelve identical flatware items, unit packaged as specified in 5.1.1.1, shall be packaged in a folding paperboard box or setup paperboard box conforming to PPP-B-566 or PPP-B-676, respectively. Box closure shall be in accordance with the appendix to the applicable box specification.
- 5.1.1.2.2 <u>Holloware</u>. Each item of hollowware, unit packaged as specified in 5.1.1.1, shall be packaged in a fiberboard box conforming to type CF, class domestic of PPP-B-636. Box closure shall be in accordance with PPP-B-636.
- 5.1.2 <u>Level C</u>. One type or size plated item shall be packaged to afford adequate protection against damage during shipment from the supply source to the first receiving activity. The supplier may use his standard practice when it meets this requirement.
  - 5.2 Packing. Packing shall be level A, B, or C, as specified (see 6.2).
- 5.2.1 Level A. One type or size plated item, packaged as specified in 5.1, shall be packed in a snug-fitting shipping container conforming to style RSC, V2s of PPP-B-636. The weight of the contents of each shipping container shall not exceed 65 pounds. Each shipping container shall be closed, water-proofed, by means of tape, and reinforced with flat strapping or tape banding in accordance with PPP-B-636.



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- 5.2.2.1 When specified (see 6.2), the shipping container shall be V3c, V3s, or V4s. fabricated and closed in accordance with PPP-B-636.
- 5.2.3 <u>Level C.</u> One type or size plated item shall be packed in a manner to insure carrier acceptance and safe delivery at destination at the lowest transportation rate for such supplies. Containers shall be in accordance with Uniform Freight Classification Rules or National Motor Freight Classification Rules, as applicable.

## 5.3 Marking.

- 5.3.1 <u>Civil agencies</u>. In addition to any special marking required by the contract or order, interior packages and shipping containers shall be marked in accordance with Fed. Std. No. 123.
- 5.3.2 <u>Military activities</u>. In addition to special marking required by the contract or order, interior packages and shipping containers shall be marked in accordance with MIL-STD-129.

### 6. NOTES

- 6.1 Intended use. The plated items covered by this specification are intended for use in officers' and executive messes and dining rooms.
- 6.2 Ordering data. Purchasers should select the preferred options permitted herein and include the following information in procurement documents:
  - (a) Title, number, and date of this specification.
  - (b) Type and item to be furnished (see 1.2).
  - (c) When a first article is required (see 3.1).
  - (d) When corrosion-resisting steel is required for base metal (see 3.4.1.1).
  - (e) Selection of applicable levels of packaging and packing (see 5.1 and 5.2).
  - (f) When weather-resistant grade fiberboard shipping containers are required for level B packing (see 5.2.2.1).
- 6.3 <u>Supersession data</u>. The following tableware and flatware cited in Military Standards have been included as follows:

Forme	erly	Item	Identified	in	RR-T-51D
			Type I		
MS 15		Bowl, food serving	Item	1	
MS 15		Bowl, sugar	Item	2	
MS 15		Caster, cruet	Item	_	
MS 15		Coffeepot, serving 32 oz.	Item	4	
MS 15		Dish, food serving, 8 inch diameter	Item		
MS 15	5059	Dish, food serving, 10 3/4 inch by 8 3/4 inch	Item	6	
MS 15	5045	Gravy boat	Item	7	
MS 15		Pitcher, cream 8 oz.			
MS 15		Pitcher, cream 16 oz.	Item		
MS 15		Pitcher, syrup	Item		
MS 15		Pitcher, water 3 1/2 quart	Item		
MS 15		Platter, food serving, 16 in.	Item		
MS 15		Teapot corning 22 or	Item		
MS 15		Teapot, serving, 22 oz.	Item		
MS 15		Tray service, 12 inch	Item -		
MS 15		Tray broad	Item		
		Tray bread	Item _		
		Tureen, soup with cover	Item	17	
MC 15	071	<b></b>	Type II		
MS 15		Fork, dessert	Item		
MS 17		Fork, salad	Item	2	
MS 15		Fork, seafood	Item	3	
MS 15		Fork, table	Item	4	
MS 15		Knife, dessert	Item	5	•
MS 15		Knife, table	Item	6	•
MS 15		Spoon, bouillon	Item	7	
MS 15		Spoon, demitasse	Item	8	
MS 15		Spoon, dessert	Item	9	
MS 17		Spoon, iced tea	Item	10	
MS 15		Spoon, soup	Item	11	
MS 15		Spoon, sugar	Item		
MS 15		Spoon, table	Item		
MS 15		Spoon, tea	Item		
MS 15	077	Ladle, gravy, table	Item		

- 6.4 Relation between the area and the weight and average thickness of the deposit:
  - (a) Specific gravity of silver = 10.5.
  - (b) Grams X 0.0322 = troy oz.
  - (c) Grams X 0.6440 = dwt.



(d) A silver coating 0.001 inch in thickness weighs 0.80 troy oz./sq. ft., or 0.11 dwt./sq. in.

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- (e) Dwt./doz. X 0.6 = troy oz./gross.
- (f) Average thickness in inches X 800 = troy oz./sq. ft.
- (g) Average thickness in inches X 16,000 = dwt./sq. ft.
- (h) Area of a piece in square inches = num er of square feet per gross.
- (i) For an average thickness of 0.00125, the area in square inches is equal to the number of troy ounces per gross.
- (j) For an average thickness of 0.00125 inch, the area in square inches, multiplied by 0.14 (or divided by 7.2) is equal to the number of pennyweights per piece. Oz./sq. ft., 16 dwt./sq. ft., or 0.11 dwt./sq. in.

## **EXAMPLES**

If the area of a salad fork is 13 sq. in., an average thickness of 0.00125 inch will require 13 troy oz./gross.

If the area of a meat dish is 324 sq. in., an average thickness of 0.00125 inch will require 324/7.2 = 45 dwt./piece.

- 6.5 <u>Toxicity</u>. Questions pertaining to the adverse effect of materials on the health of personnel should be referred by the procuring activity to the appropriate departmental medical service who will act as an advisor to the procuring activity.
- 6.6 <u>First article</u>. When a first article is required, it shall be inspected and approved under the appropriate provisions of ASPR 7-104.55. The first article should be preproduction sample and should consist of one unit. The contracting officer should include specific instructions in all procurement instruments regarding arrangements for inspection and approval of the first article.
- 6.7 For civil agency procurements. When level B packaging is required for civil agency procurements, the requirements in 5.1.1, level A shall apply.
- 6.8 The pattern for the type I tableware is commercially manufactured as the Gadroon Pattern. The type II flatware is commercially manufactured as the Kings Pattern.

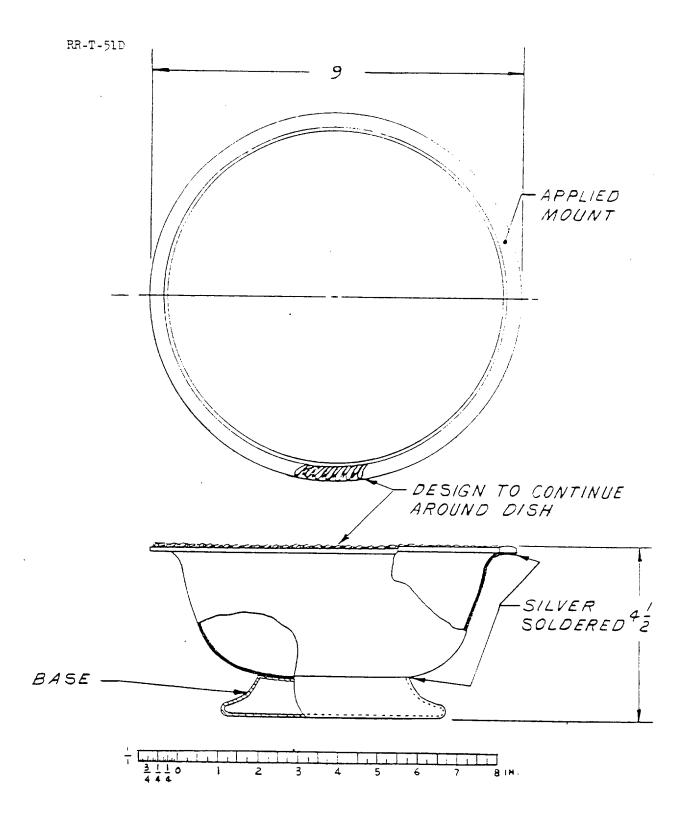
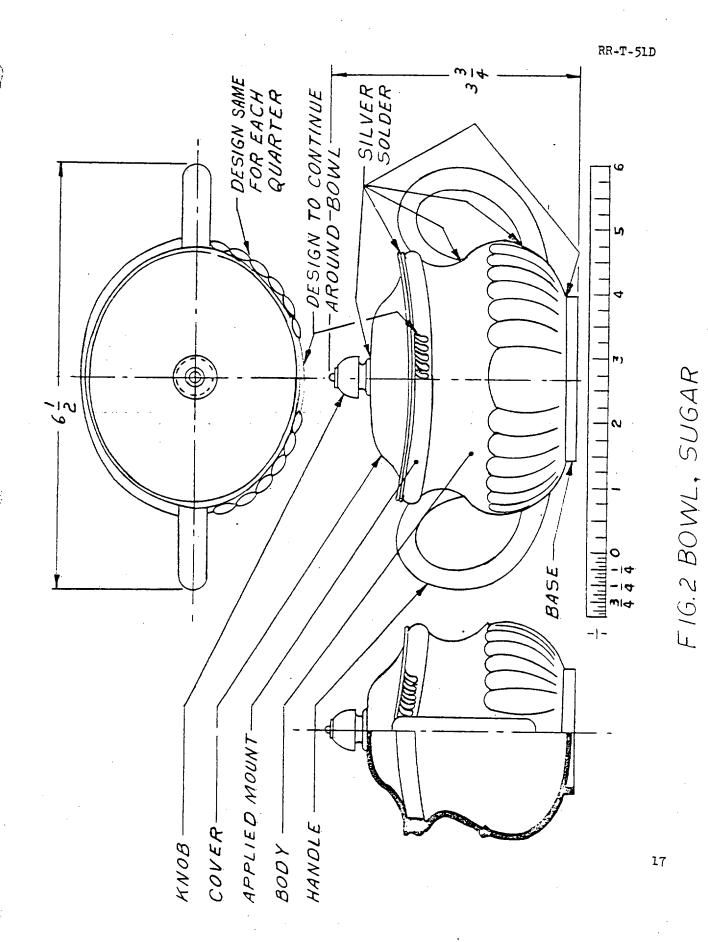
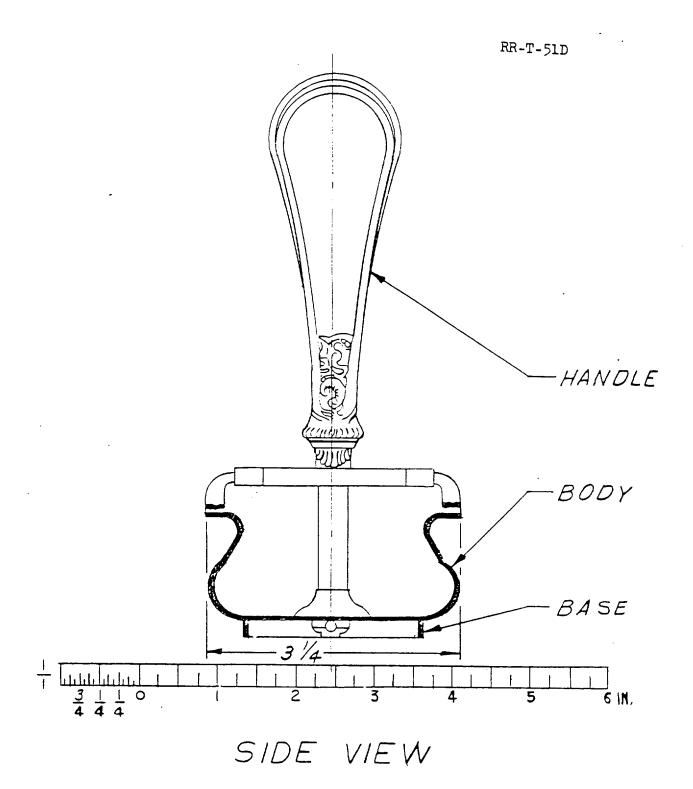
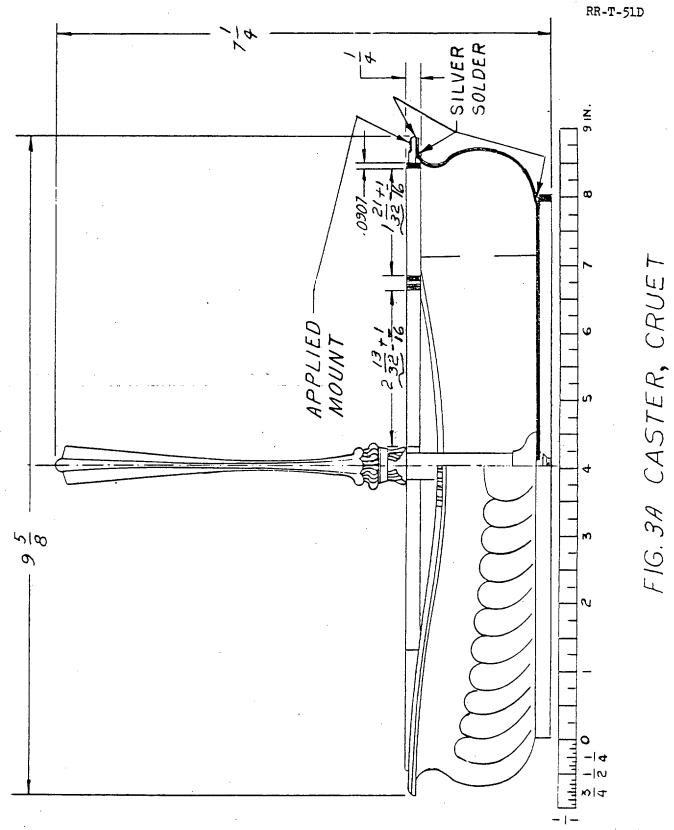


FIG. 1 BOWL, FOOD SERVING





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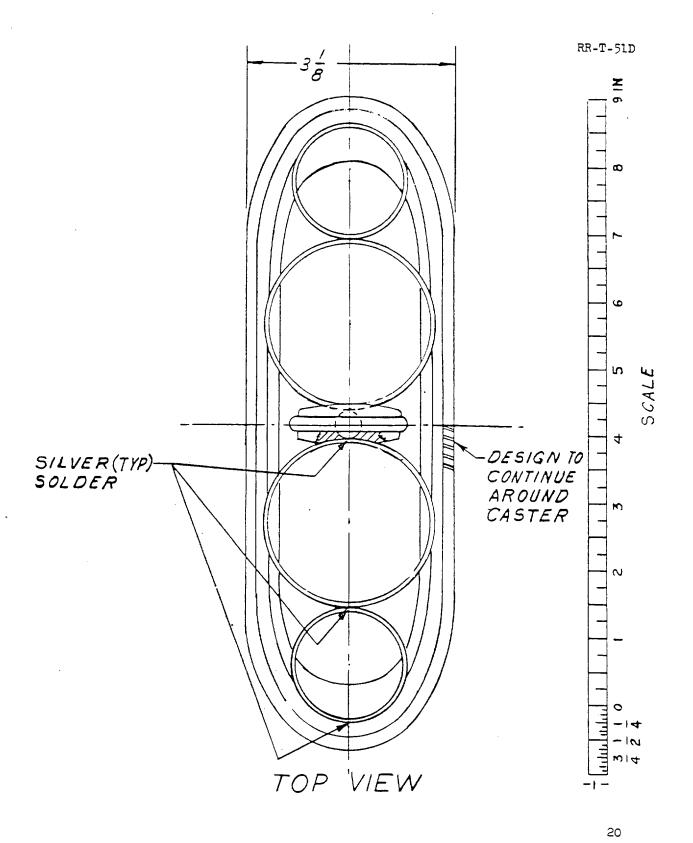


FIG. 38 CASTER, CRUET

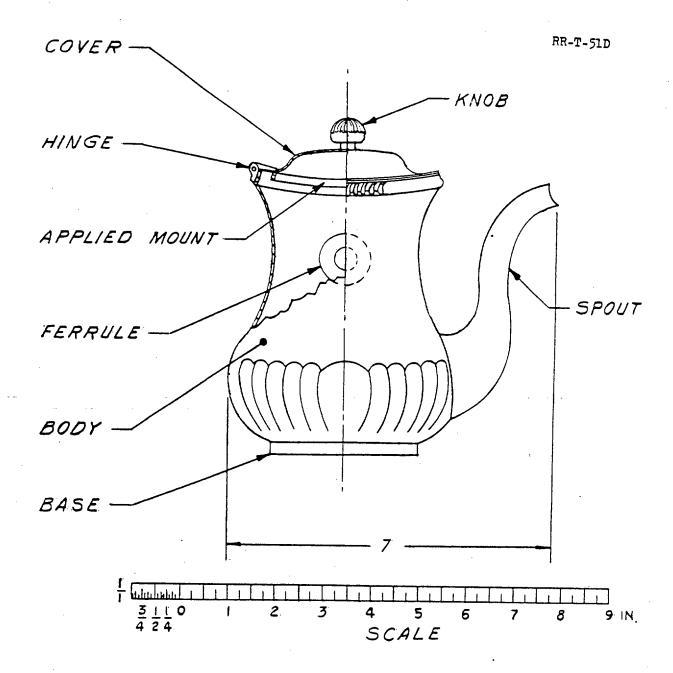


FIG. 4 - COFFEEPOT, SERVING -32 OUNCE

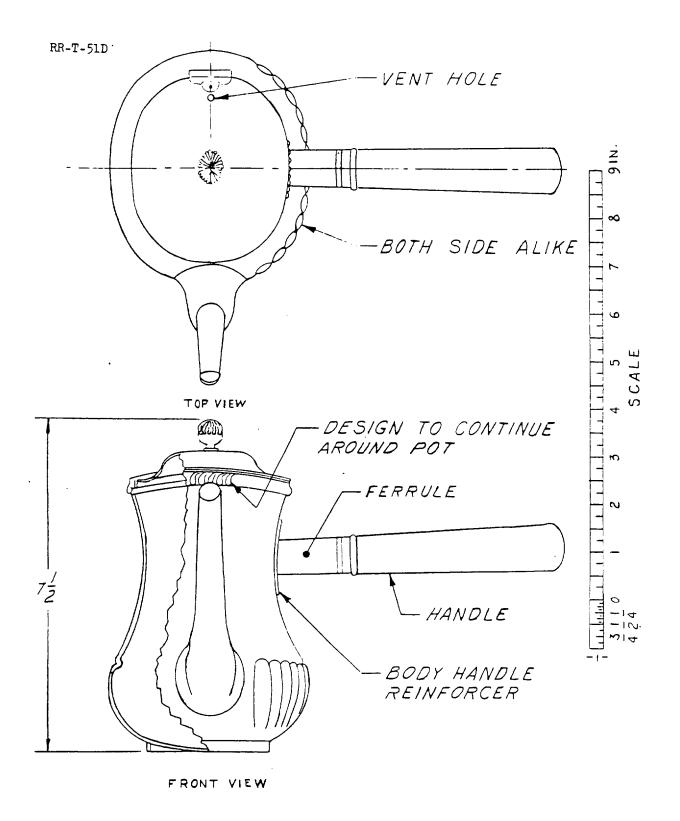


FIG. 4A COFFEEPOT, SERVING-32 OUNCE

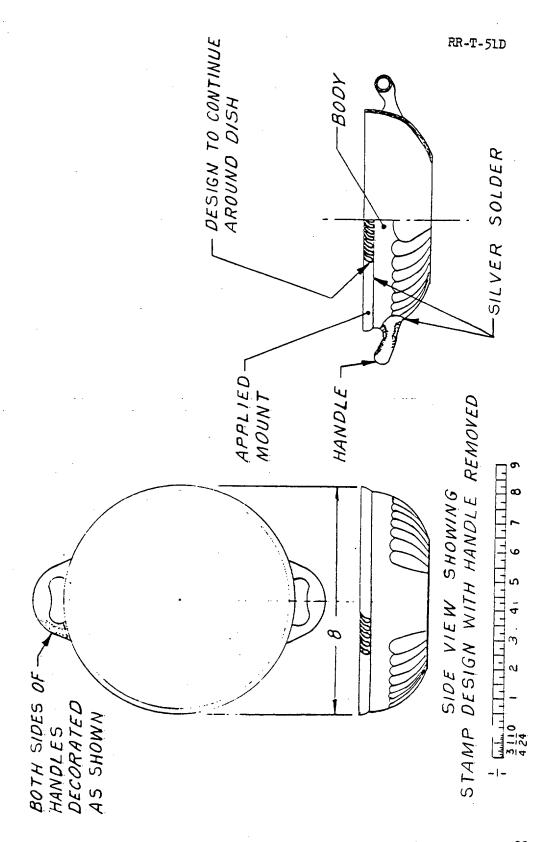


FIG. 5 DISH, FOOD SERVING 8 INCH

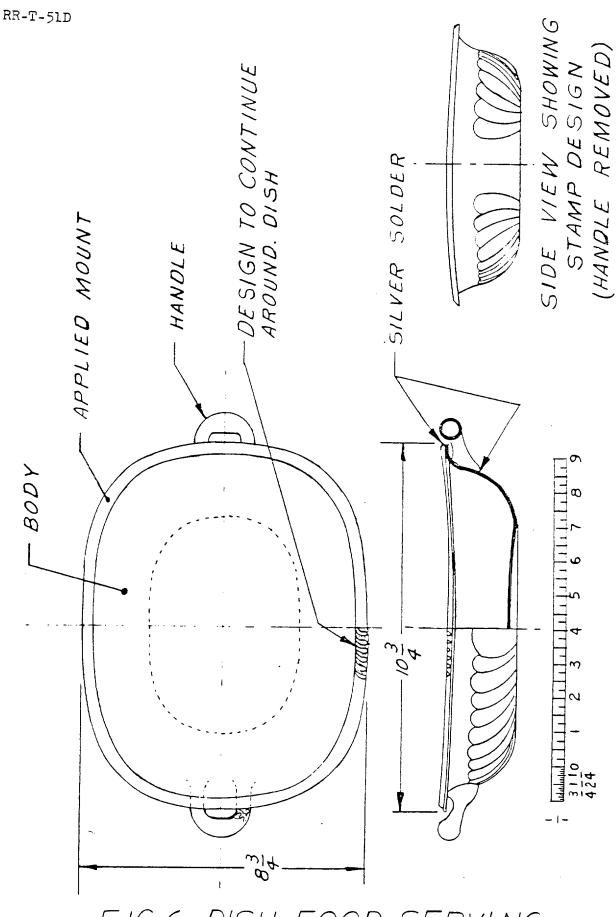


FIG.6 DISH, FOOD SERVING RECTANGULAR

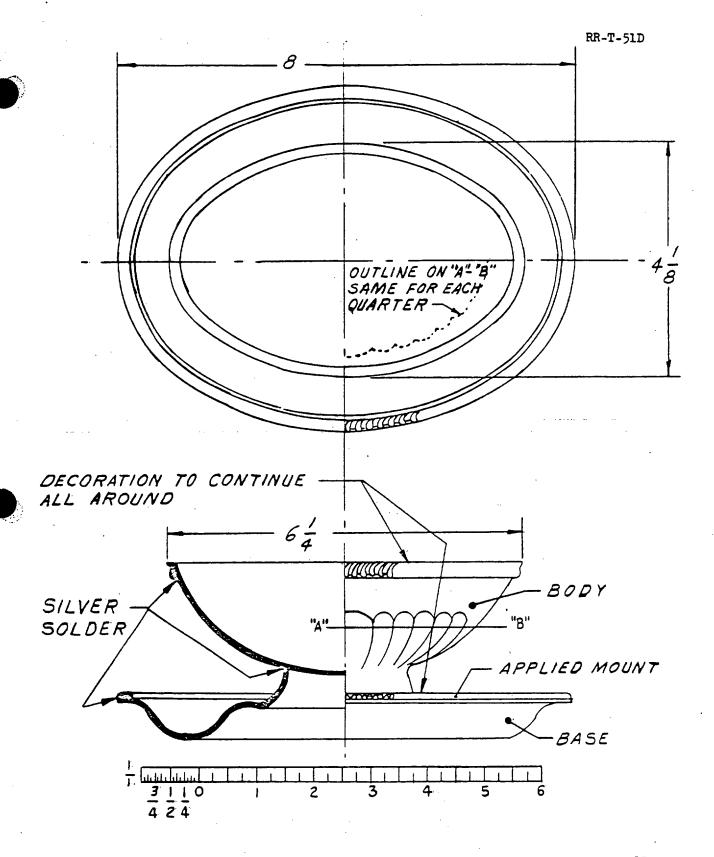


FIG. 7 BOAT, GRAVY

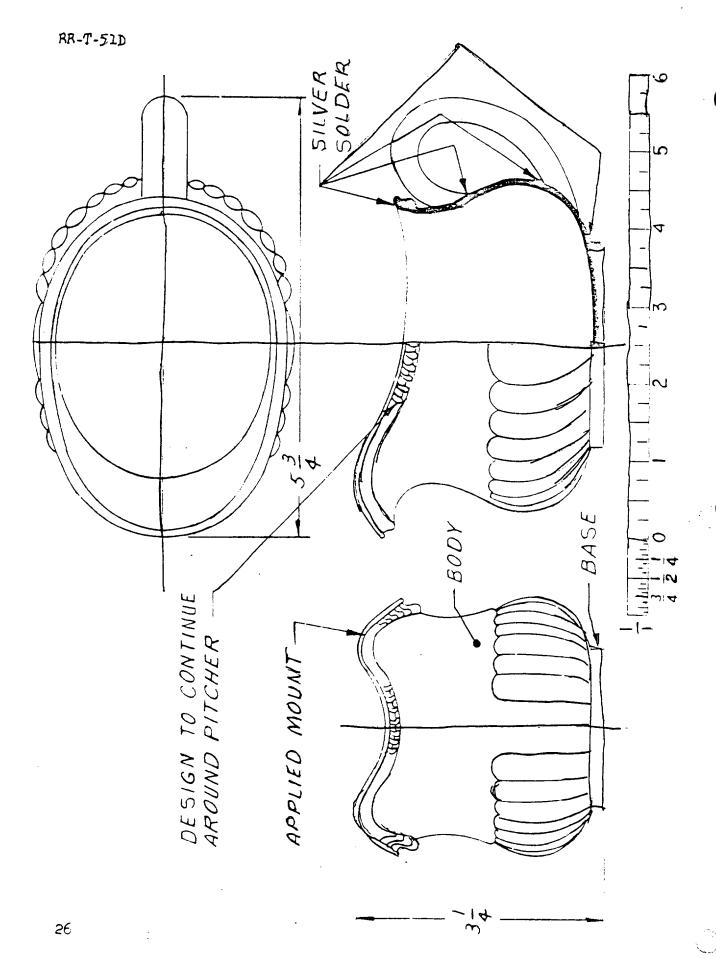


FIG.8-PITCHER, CREAM, 8-OUNCE

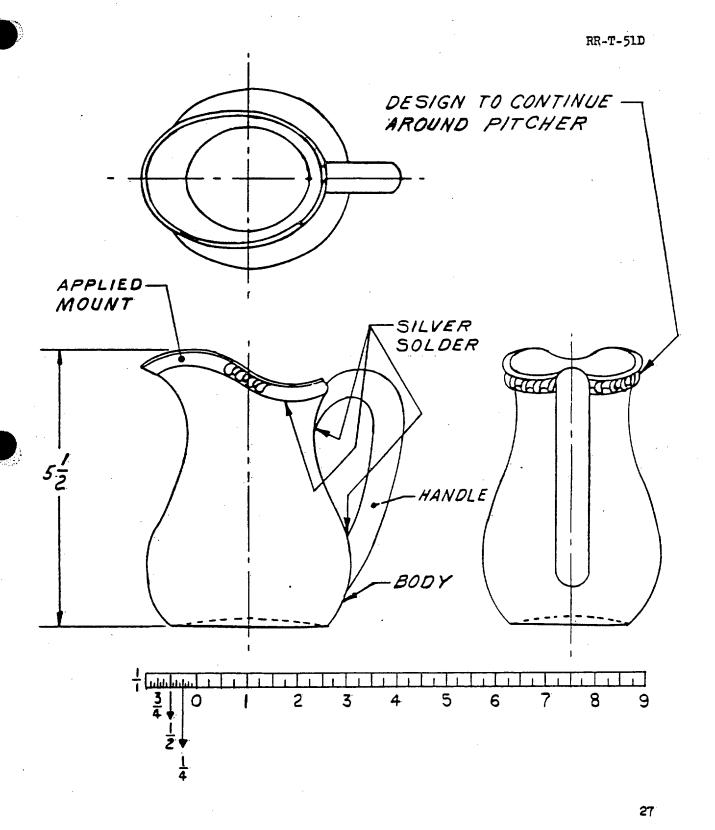
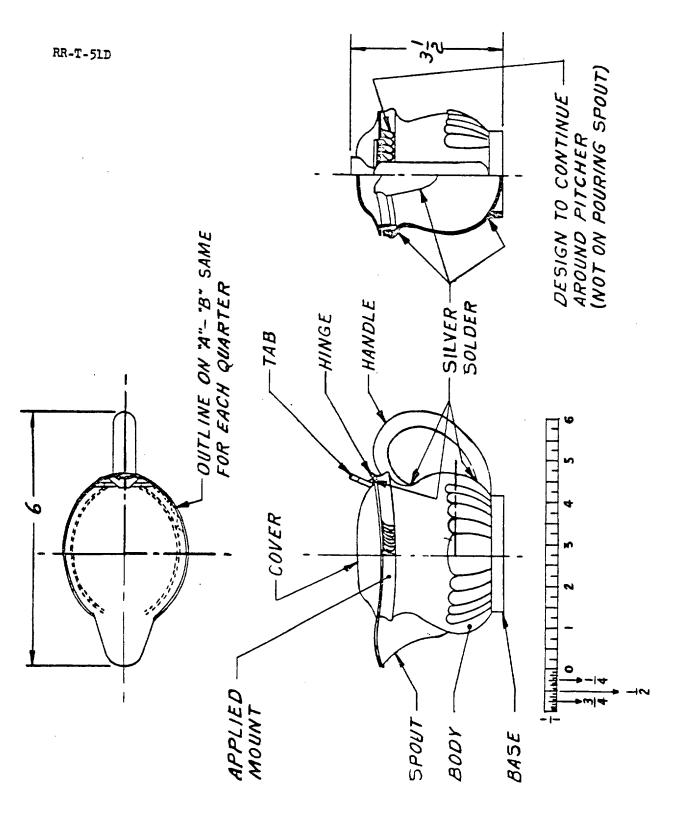
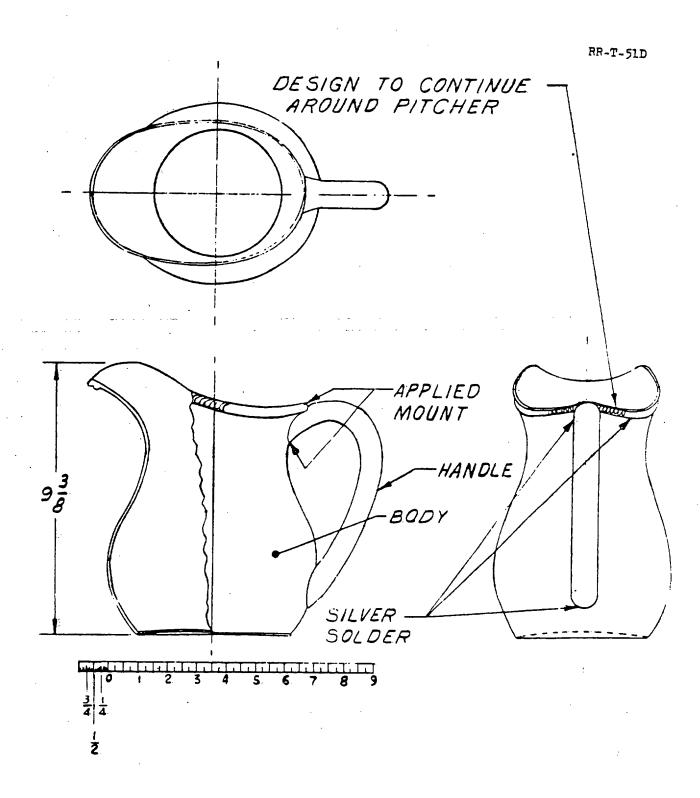


FIG9 -PITCHER, CREAM, 16 - OUNCE

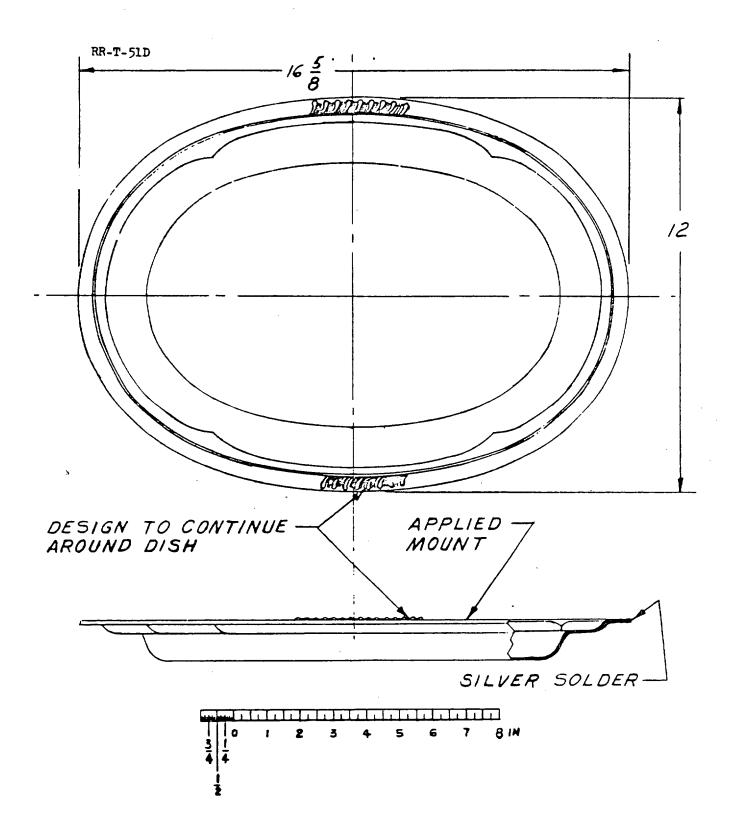


28

FIG.10 PITCHER, SYRUP 9 OZ CAPACITY



**2**9.



30

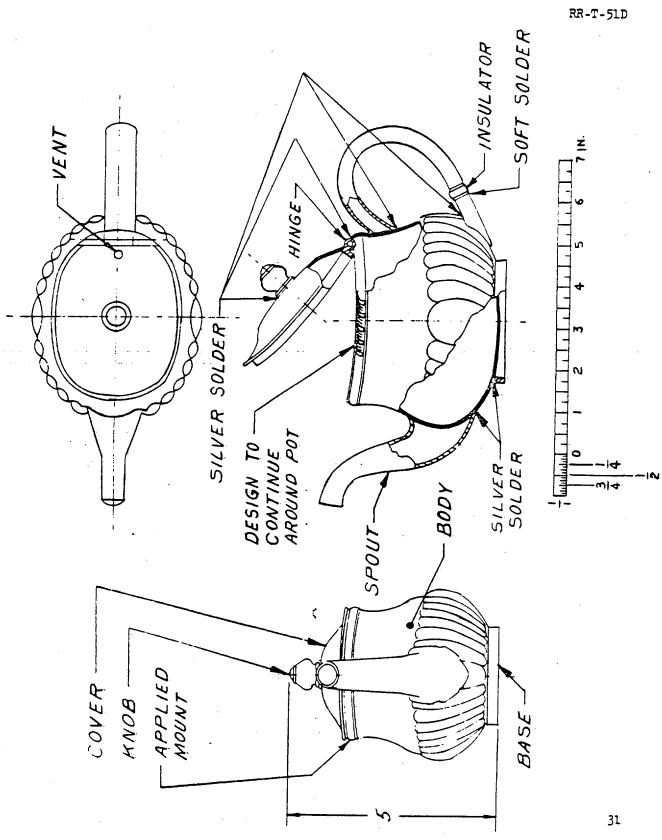


FIG.BTEAPOT, SERVING, SMALL

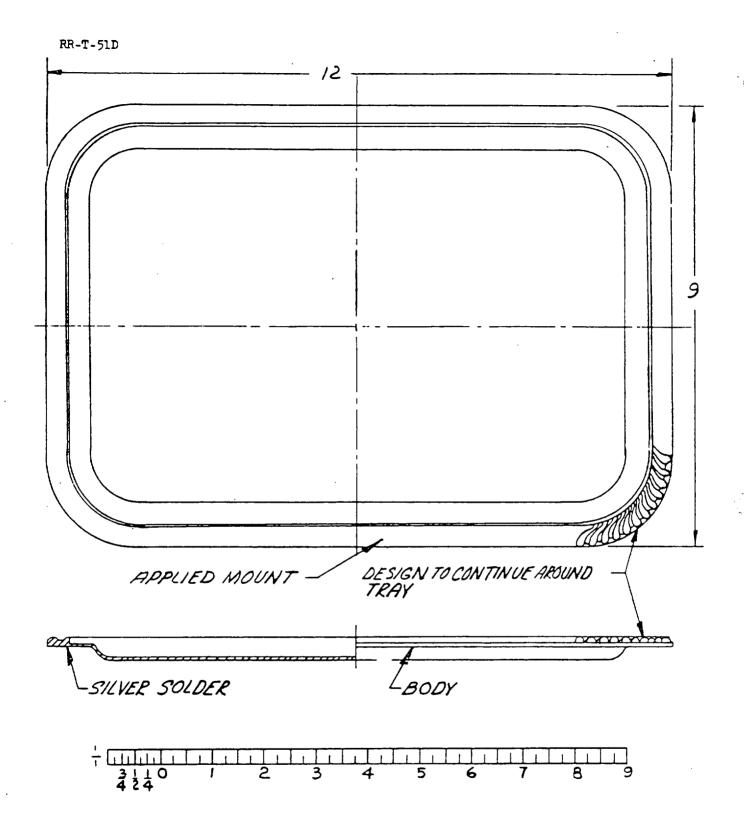


FIG 14 TRAY, SERVICE 12 INCH

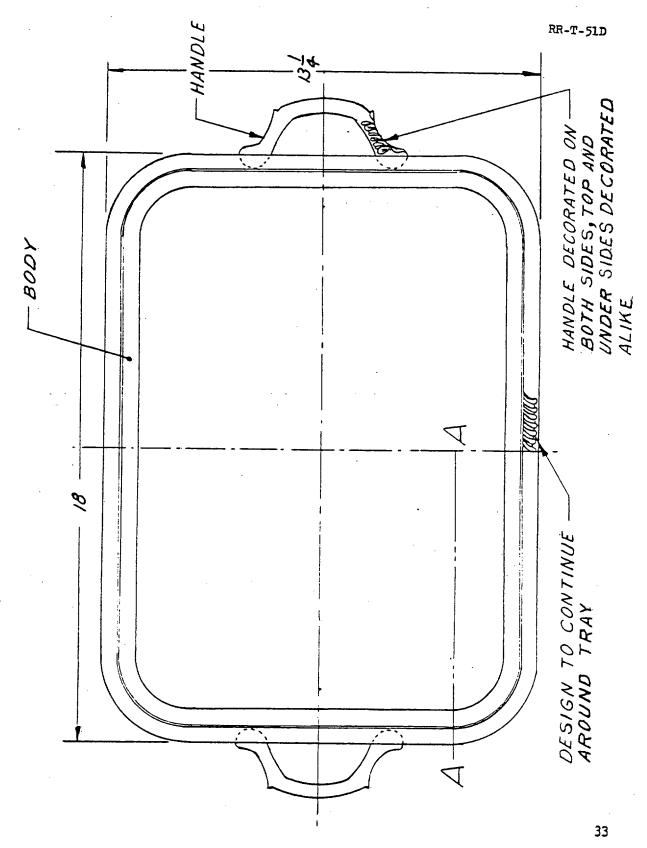
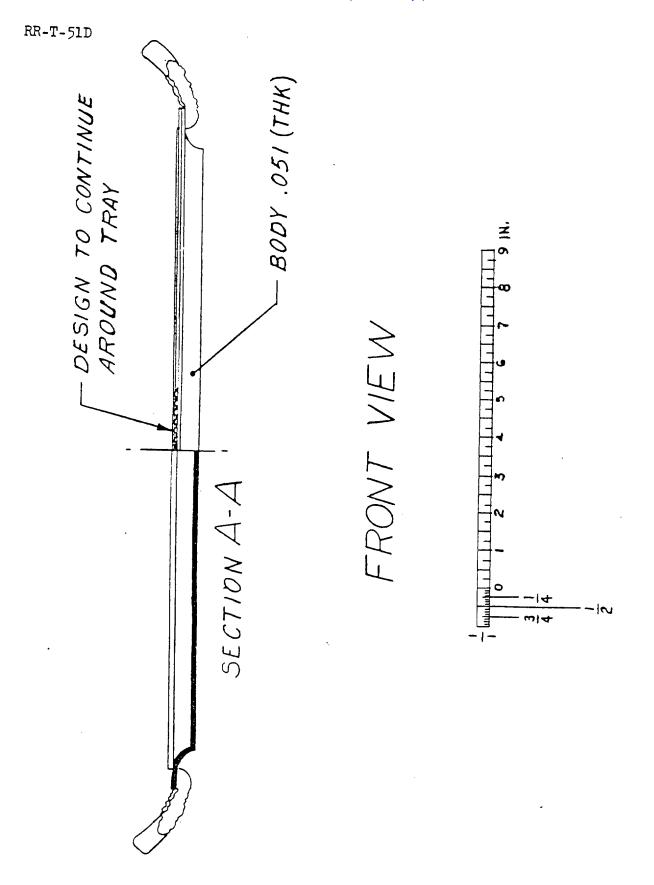


FIG.15 - TRAY, SERVICE 18 INCH



34



35

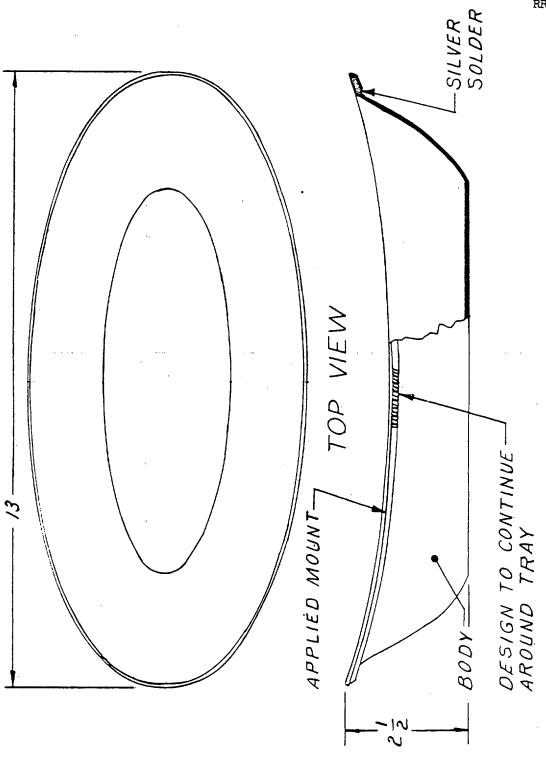
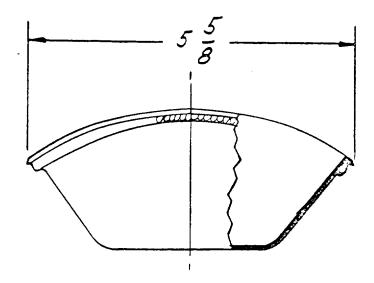


FIG16 - TRAY, BREAD

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SIDE VIEW

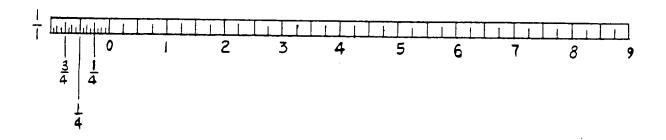
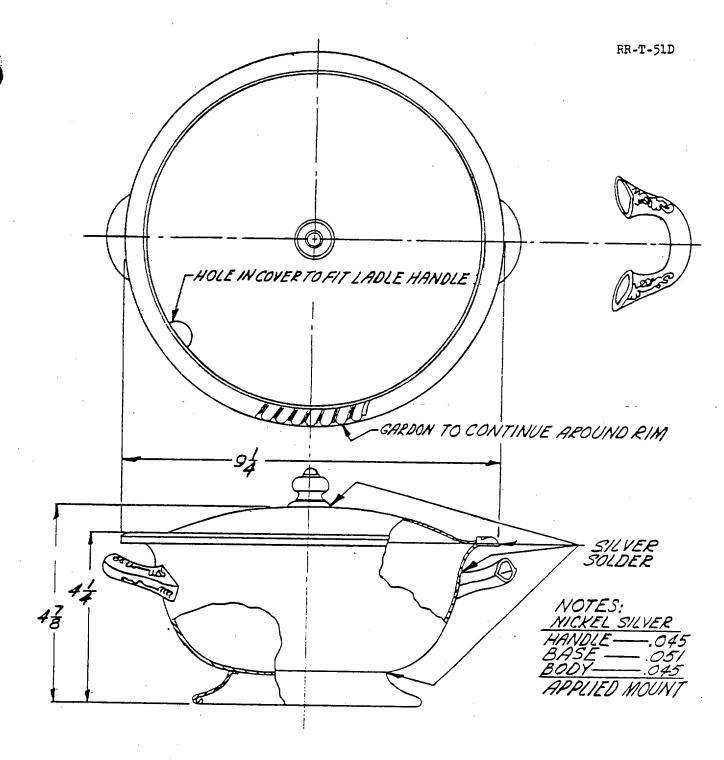
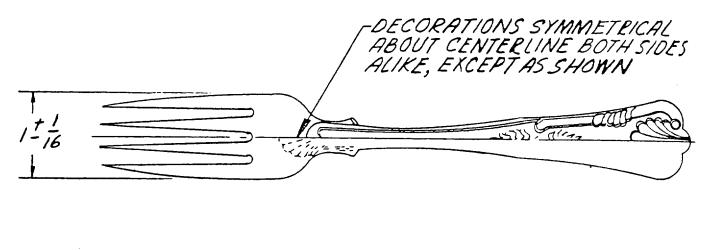


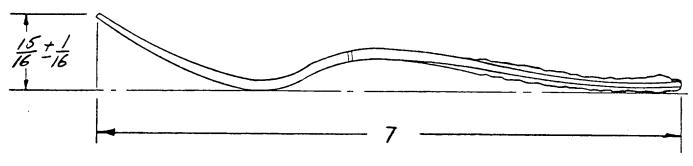
FIG IGA TRAY, BREAD



FIGIT TUREEN, SOUP W/COVER, 640Z CAPACITY

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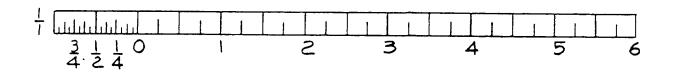
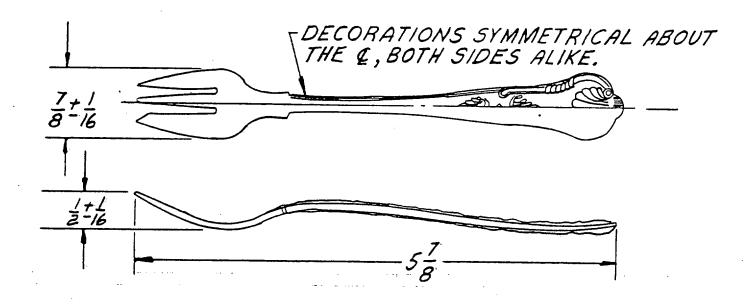


FIG.18 FORK, DESSERT



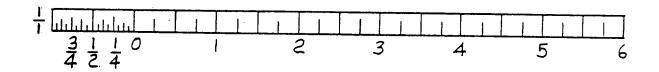
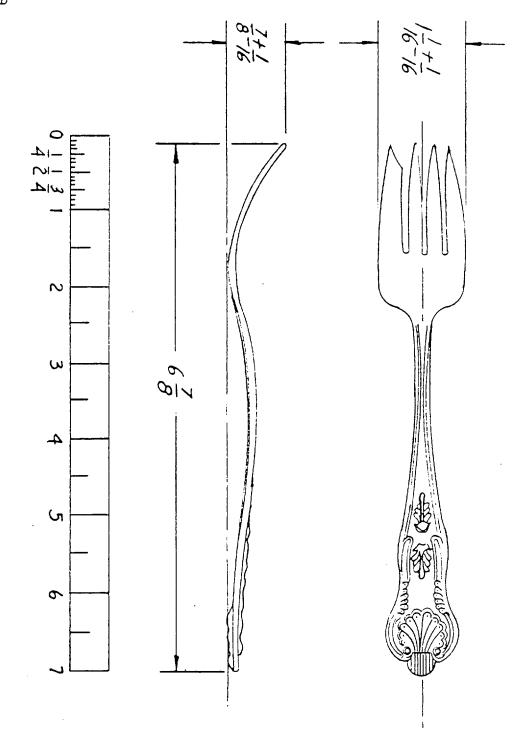


FIG19 FORK, OYSTER

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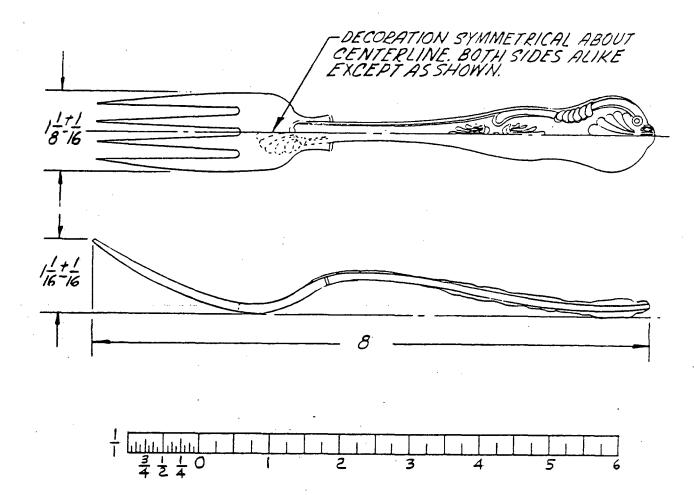
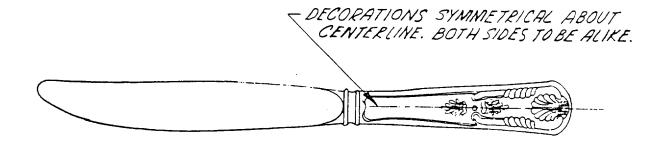
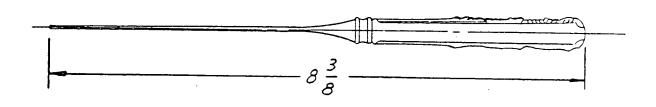


FIG2I FORK, TABLE





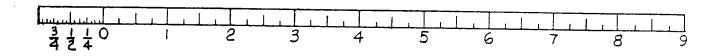
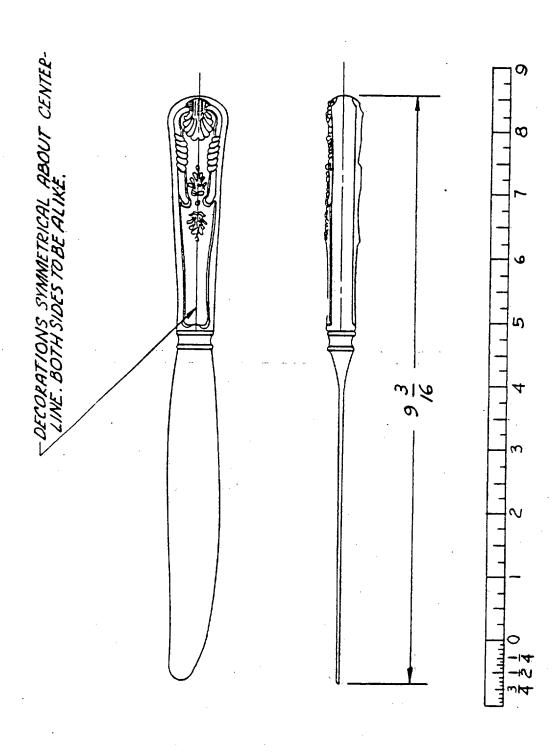
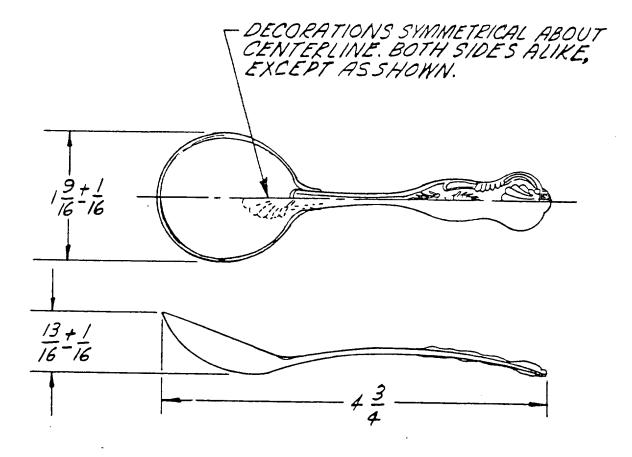


FIG22KNIFE, DESSERT





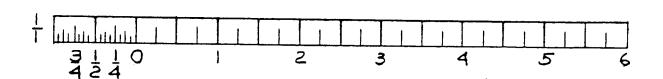
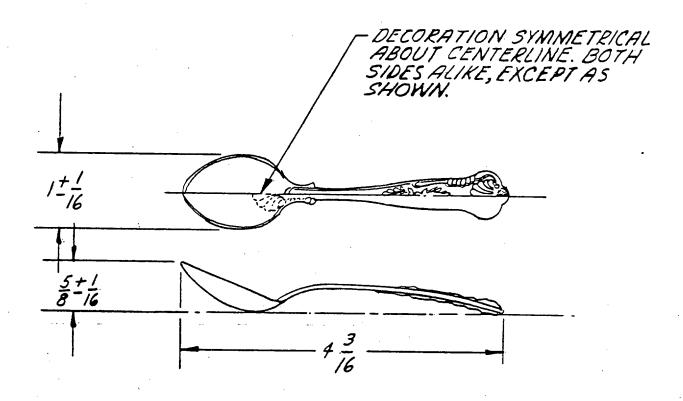


FIG. 24 SPOON, BOUILLON



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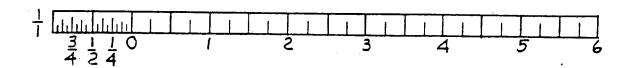
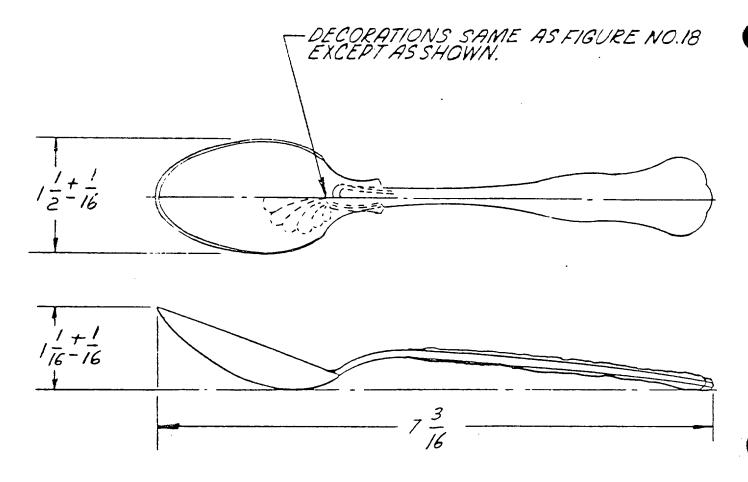


FIG. 25 SPOON, DEMITASSE

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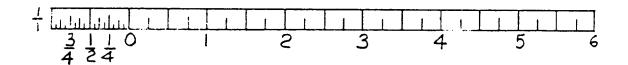
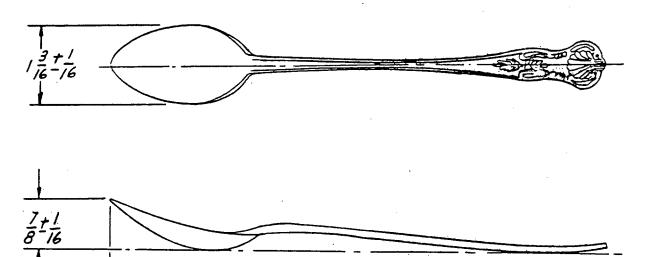


FIG. 26 SPOON, DESSERT





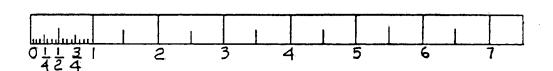
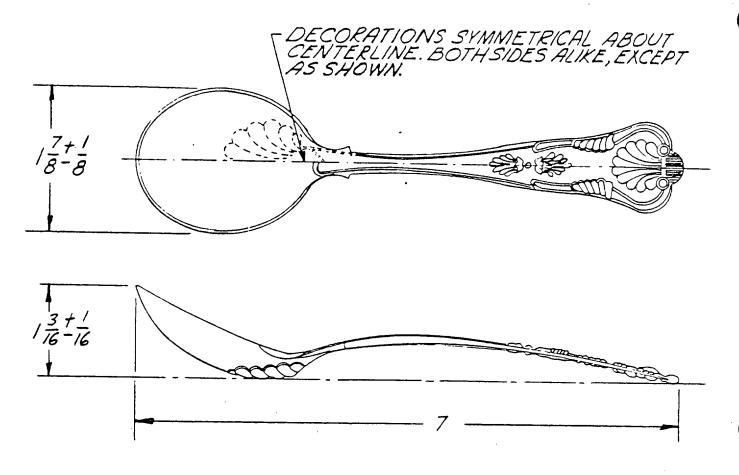


FIG.21 SPOON, ICED TEA

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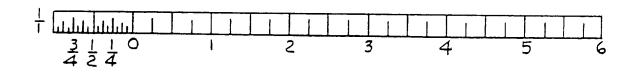
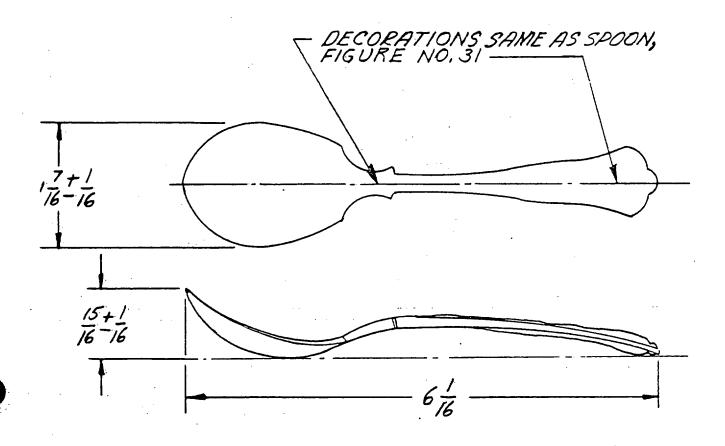
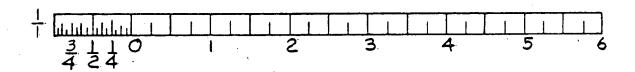
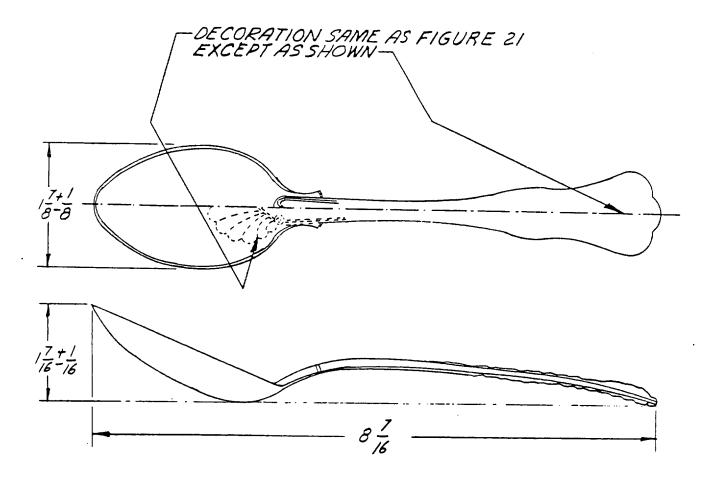


FIG. 28 SPOON, SOUP





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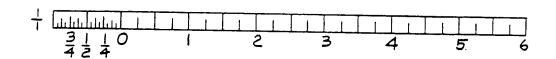
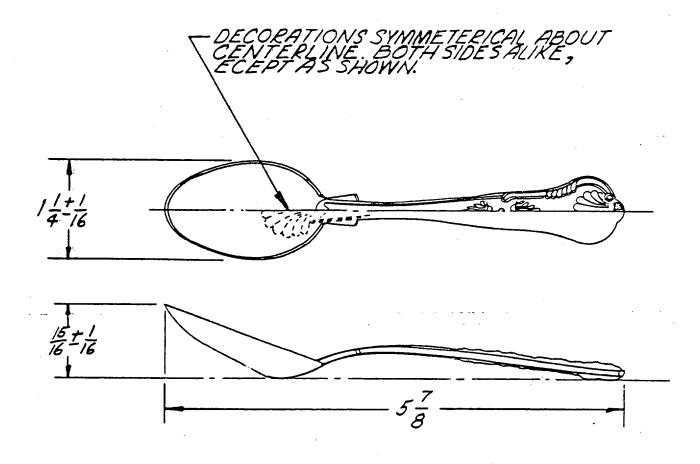


FIG 30 SPOON, TABLE



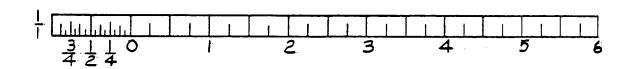


FIG31 SPOON, TEA

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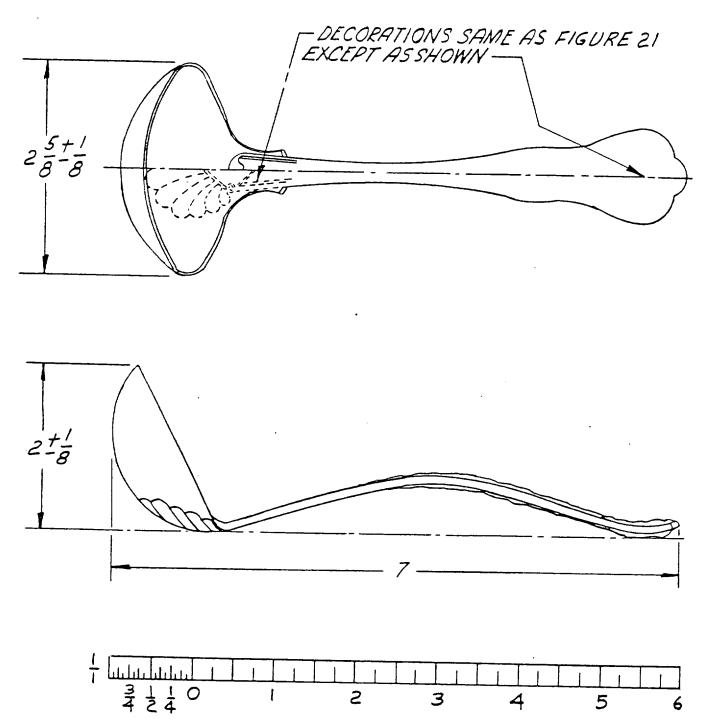


FIG.32LADEL,GRAVY, TABLE

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Navy - MS

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