

INCH-POUND

A-A-52042

March 12, 1992

COMMERCIAL ITEM DESCRIPTION

SCALE, PLOTTING COORDINATE:

PLASTIC, GRADUATED IN YARDS AND METERS IN

1:25000 AND 1:50000 SCALES

The General Services Administration has authorized the use of this commercial item description in preference to Military Specification MIL-S-2412.

This description covers a flat, double-sided plastic, L-shaped coordinate scale, graduated in yards and meters in 1:25000 and 1:50000 scales with one side marked in yards and the opposite side marked in meters. The scale is intended to be used for reading and plotting coordinates on either scale maps, or map substitutes, having either a 1000 meter or 1000 yard grid.

Salient characteristics:

Design: The scale shall be as specified herein and as shown on figures 1 and 2.

Material: The scale shall be cut from a rigid unsupported polyvinylchloride sheet and sealed between two transparent cover sheets. The finished scale after lamination shall be not less than 0.036-inch (0.91 mm) or more than 0.040-inch (1.02 mm) thick.

Surface and edges: The surface shall be smooth and the edges shall be square and straight to within 0.003 inch (0.08 mm) of the precision flat. The outside edges shall be perpendicular to within 0.014 inch (0.36 mm) and the inside edges shall be perpendicular to within 0.010 inch (0.25 mm). Sharp edges shall be rounded to a radius not to exceed 0.003 inch (0.08 mm) and all corners rounded to the radii shown on figure 2.

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and other data which may improve this document should be sent by letter to: Commander, U.S. Army Belvoir Research, Development and Engineering Center, ATTN: SIRBE-TSE, Fort Belvoir, VA 22060-5606.

AMSC N/A

FSC 6675

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

A-A-52042

Graduations, numerals, and lettering: The scale shall be graduated, numbered, and lettered as specified herein and as shown on figures 1 and 2. The graduations shall be 0.010 inch, ± 0.003 inch (0.25 mm, ± 0.08 mm) in width and spaced equidistant. The cumulative tolerance over the entire scale shall not exceed 0.010 inch (0.25 mm). Unless otherwise shown on figures 1 and 2, the numerals and letters shall be Gothic, 0.063-inch (1.58 mm) high. The vertical and horizontal scale zero shall be within ± 0.010 inch (0.25 mm).

Marking color: The meter side of the scale shall be marked in red and the yard side of the scale marked in black.

Certification of commercial item: The contractor shall certify that the product offered to the Government meets the salient characteristics of this description and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices and is the same product as the manufacturer's current product offered by the contractor in the commercial marketplace for at least one year preceding the solicitation. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

Metric products: Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, provided they fall within specified tolerances using conversion tables contained in the latest revision of FED-STD-376, and all other requirements of this commercial item description are met.

If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch-pound units, a request should be made to the contracting officer to determine if the product is acceptable.

The contracting officer has the option of accepting or rejecting the product.

Regulatory requirements: In accordance with Federal Acquisition Regulation, section 23.403, the Government's policy is to acquire items composed of the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition without adversely affecting performance requirements or exposing the supplier's employees to undue hazards from the recovered materials.

Preservation, packing, and marking: The preservation, packing and marking shall be as specified in the contract or purchase order.

Quality assurance: The plotting coordinate scale shall be examined for the following defects. Presence of one or more defects shall be cause for rejection.

1. Design not as specified.
2. Material not as specified.
3. Surface and edges not as specified.

A-A-52042

- 4. Graduation, numerals and lettering not as specified.
- 5. Marking color not as specified.

Notes: The procuring agency should specify the preferred options permitted herein and include the following information in procurement documents:

- 1. Title, number, and date of this item description.
- 2. When this commercial item description is used for procurement, the commercial item certification clause must appear in the solicitation.

The following are suggested sources of supply for this item description (competition is not limited to these sources):

- a. C-Thru Ruler Co., 5-T Britton Drive, P.O. Box 356, Bloomfield, CT 06002).
- b. Lutz Superdyne, Inc., 815 Broad Ave., P.O. Box 57, Ridgefield, NJ 07657.

FED-STD-376 is available from the Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

The preparing activity for this item description is the U.S. Army Belvoir Research, Development and Engineering Center, Fort Belvoir, VA 22060-5606.

MILITARY INTERESTS:

CIVIL AGENCY COORDINATING ACTIVITY:

Custodian

GSA-FSS

Army - ME

PREPARING ACTIVITY:

Review Activity

Army - ME

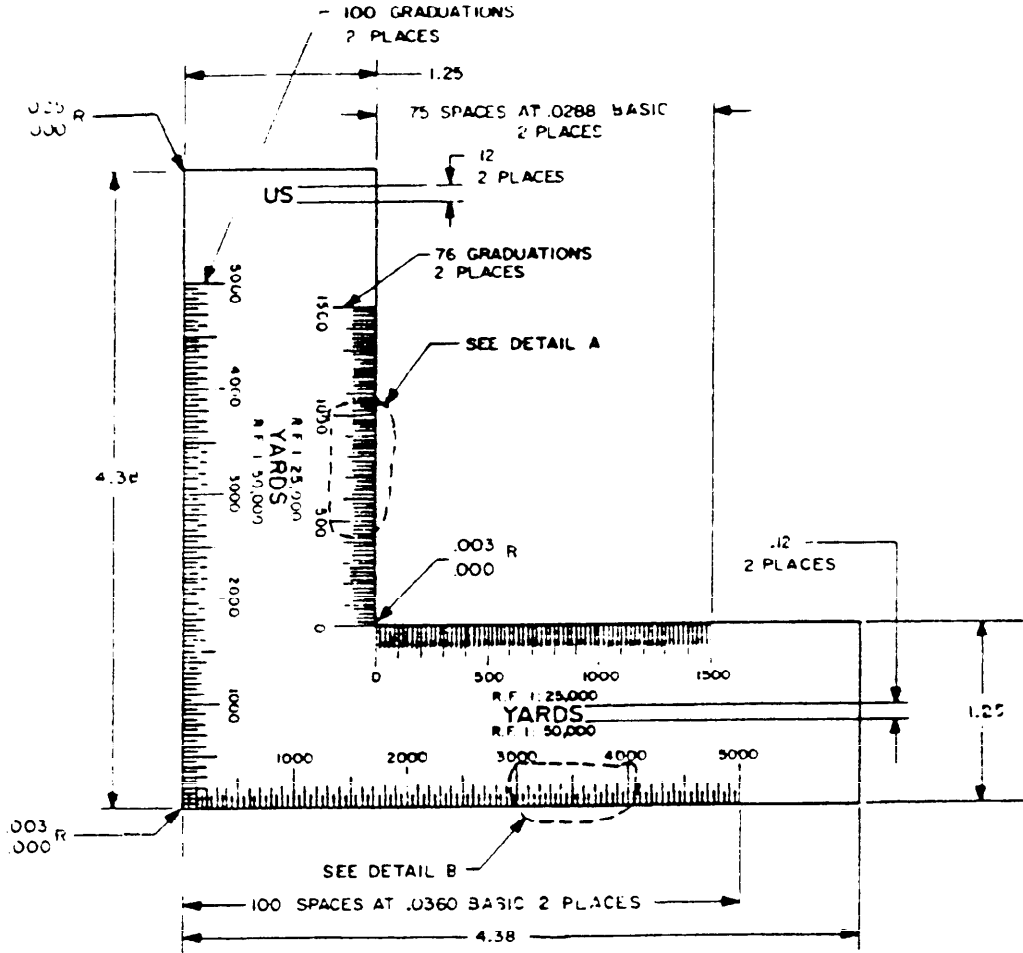
DLA - GS

Project 6675-0949

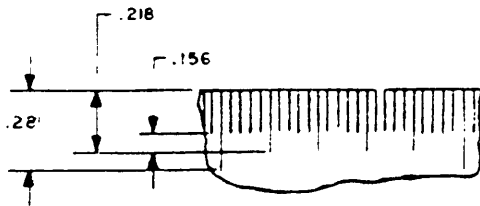
User Activities

Navy - MC, OS, AS, YD

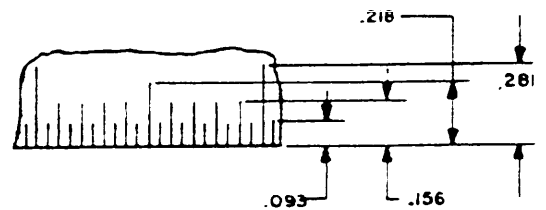
A-A-52042



NOTES
1. ALL DIMENSIONS ARE IN INCHES.



DETAIL A
TYPICAL FOR 1:25,000 SCALE



DETAIL B
TYPICAL FOR 1:50,000 SCALE

FIGURE 2. Scale plotting graduated in yards.

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