METRIC
MIL-C-89303
30 November 1990
SUPERSEDING
PS/3CB/301
July 1979

MILITARY SPECIFICATION

CITY GRAPHICS

This specification is approved for use by all Departments and Agencies of the Department of Defense.

- 1. SCOPE
- 1.1 <u>Scope</u>. This specification defines requirements for the Defense Mapping Agency's (DMA) City Graphics.
- 1.2 <u>Purpose</u>. The purpose of this specification is to assure uniformity of treatment among all mapping and charting elements engaged in a coordinated production and maintenance program for this product.
 - 1.3 Security.
- 1.3.1 <u>Security classification</u>. The security classification of the products generated by the use of this specification will be the lowest category practicable. When it is necessary to assign a security classification to the product, it will be accomplished in accordance with established national security procedures.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Director, Defense Mapping Agency, ATTN: PR, 8613 Lee Highway, Fairfax, VA 22031-2137 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A AREA MCGT

<u>DISTRIBUTION</u> STATEMENT A. Approved for public release; distribution is unlimited.

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 <u>Specifications</u>, <u>standards</u>, <u>and handbooks</u>. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the current Department of Defense Index of Specifications and Standards (DODISS) and the supplement thereto, cited in the solicitation (see 6.2).

STANDARDS

MILITARY

MIL-STD-600000 - MC&G Glossary of Feature/ Attribute Definitions.

MIL-STD-600001 - MC&G Accuracy. MIL-STD-500002 - MC&G Symbology.

MIL-STD-600003 - MC&G Product Generation Rules.

MIL-STD-600004 - MC&G Geographic Names.

MIL-STD-600005 - MC&G Reproduction and Printing.

MIL-STD-600010 - Standard Department of Defense DMA Stock Bar Coding.

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Naval Publications and Forms Center, (ATTN: NPODS), 5801 Tabor Avenue, Philadelphia, PA 19120-5099.)

2.1.2 Other Government documents, drawings, and publications. The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

DMA TM 8353.1 DoD Grids and Grid References

(Copies are available from the Defense Mapping Agency Hydrographic/Topographic Center, 6500 Brookes Lane, Washington, DC 20315-0030.)

2.2 Non-Government publications.

This section is not applicable to this specifications.

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein (except for related associated detail specifications, specification sheets, or MS standards) the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

- 3.1 Accuracy. The City Graphic is produced to support several intended uses. The required accuracy (all features) is based on intended use.
- a. The absolute Horizontal Accuracy requires that 90% of all well-defined planimetric features, except those unavoidably displaced by symbol exaggeration, are located within 2.0mm of their geographic position with reference to a prescribed datum.

- b. The absolute Vertical Accuracy requires that 90% of all elevations are accurate to within two required or basic contour intervals as referred to a basic vertical datum.
- 3.1.1 <u>Displaced features</u>. Feature symbols which are displaced, as identified in the Displacement Rules in MIL-STD-600003 are excluded from the accuracy requirement stated in 3.1.

3.2 Datum.

- 3.2.1 <u>Horizontal datum</u>. For new production, and as map/chart sheets are revised or updated for periodic maintenance, the WGS 84 (see 6.3.2) or NAD 83 datum and where appropriate a revised Military Grid system shall be depicted as the primary grid. The old (local) datum will be depicted as a secondary grid with tick marks along the border of the sheet. A grid conversion note shall also be placed in the margin area. Additionally, both the old and new 100,000 meter square two-letter identifiers shall be depicted on the map/chart, if applicable. Appropriate margin notes shall be added to explain the dual lettering.
- 3.2.2 <u>Vertical datum</u>. Vertical datum shall be Mean Sea Level (MSL) (see 6.3.1).
- 3.3 Adjoining data set and chart match. Reasonable effort is made to match a new compilation with adjoining sheets of existing maps at the same scale. In attempting to match sheet border features, displacements are not introduced into the new compilation that exceed the permissible limits of accuracy, nor are features arbitrarily added or extended to effect a tie with the adjoining sheet.
- 3.4 <u>Series</u>. The requirements usually include detailed street information within the main town and the portrayal of significant features such as port facilities, airports, military installations, industrial complexes, etc., in the vicinity of the populated place. If required, features falling outside the area of the graphic are shown as insets to the graphic.
- 3.5 <u>Quality</u>. Final product quality shall reflect the quality elements expressed by each appropriate section within MIL-STD-600000 600005. A graphic history shall be written concurrently with the development of the graphic manuscript and shall include precise descriptions of source material utilization and of all pertinent cartographic and control problems with the solutions that were applied.
- 3.6 <u>Scale</u>. The preferred scale for city graphics is 1:25,000 scale. Deviations from this scale should only be made for well defined reasons. A smaller city does not justify a larger scale map. In these cases it is preferable to extend the area portrayed rather than enlarge the scale.
 - a. See 3.25.1 and 3.25.2 for specifications for insets.
 - b. The scale is specified in the supplementary instructions.
- 3.7 <u>Map design</u>. Whenever possible, city graphics are designed to be produced on one sheet. If the size of the selected area makes it necessary to present the graphic on more than one sheet, all sheets are prepared with the same trim sizes. The scale is not changed for the sole purpose of showing the specific scale, neither are the number of sheets increased in order to accommodate the marginal data.

- 3.7.1 Spacing requirements. The amount of space required for marginal data may affect the sheet lines by limiting the amount of space available for the graphic image. This is particularly true where the Guide to Numbered Features and Index to Streets are positioned in the margin. The Guide to Numbered Features and Index to Streets may be positioned in the map interior when the graphic contains a substantial open water area or other relatively clear space that is devoid of significant features. However, sheet lines are not deliberately extended to provide space in the graphic interior for data that would normally be positioned in the margin. The amount of marginal data will vary with each sheet and must be taken into consideration when sheet lines are established.
- 3.7.2 <u>Sheet lines</u>. Sheet lines are established so that, preferably, the city proper falls in the approximate center of the graphic. However, this is not always feasible, particularly where other factors must be considered in the establishment of the sheet lines. Some of these factors are:
 - a. The inclusion of important features adjacent to the city.
- b. Coastal cities where large areas of open water would be shown if the city were centered on the graphic.
- c. The direction of growth of the city. Where the direction of growth is apparent, the areas of future development are included where feasible so that later additions can be made without recompiling the entire graphic.
- d. The positioning of the Guide to Numbered Features and Index to Streets within the neatlines.
- 3.7.3 <u>Suburban areas</u>. Suburban areas of questionable military importance may be omitted from the project area in order to reduce the number of sheets.
- 3.8 <u>Size and dimensions</u>. Work limits are preferably confined to dimensions smaller than 86cm by 111cm, but may be expanded to 104 cm by 144 cm.
- 3.8.1 <u>Sheet lines information</u>. Sheet lines are established to include port facilities, airports, military installations, industrial complexes, and other features of military significance that are adjacent to the urban area. Sheet lines are not extended beyond the logical limits of the city and its environs to include such features if they can be adequately shown in insets or if the required features are shown on available standard large-scale maps.
- 3.8.2 <u>Neat lines</u>. Preferably, the neatlines are plotted so that the corners coincide with the geographic corners whose values are expressed in degrees, minutes, and full seconds.
- 3.9 <u>Projections</u>. City graphics are produced on the Transverse Mercator Projection. The projection is represented by:
- a. Connected sheet corners which form the sheet limits (neatlines) sheet corners are labeled with their full projection values, i.e., degrees, minutes and seconds.
- b. Projection ticks emanating from the neatlines and pointing inwards projection ticks with full degree values are labeled in degrees and minutes (example: 112°00') and the remaining ticks are labeled in minutes only.
 - c. Interior projection intersection ticks.

- 3.9.1 <u>Neatline ticks and interior intersection ticks</u>. The neatline ticks and interior intersection ticks are shown at five-minute intervals for graphics published at 1:25,000 scale and smaller. For scales larger than 1:25,000 scale, they are shown at one-minute intervals. Illustrations of the projection data are shown on the style sheet, Appendix A.
- $3.10~{
 m Reference~systems}$. The specifications for grids on large-scale maps in DMA TM 8353.1, DoD Grids and Grid References, are applicable to city graphics.
- 3.10.1 <u>Grid</u>. The grid is represented by lines at 1,000 unit intervals. Ticks at 100 unit intervals may be shown on maps published at scales larger than 1:25,000 scale. Grid lines and ticks are shown in blue. The required grid is specified in supplementary instructions for the project. See Appendix A for line weights and dimensions for grid and projections.
- 3.10.2 <u>Grid junctions</u>. Grid junctions and overlapping grids are not shown on the city graphics. When a grid junction occurs, the grid that covers the major portion of the sheet is extended to cover the whole sheet.
- 3.10.3 <u>Grid data</u>. Grid data are not shown on medium-scale environs insets.
- 3.10.4 <u>Insets</u>. Additional instructions for the preparation of the insets are indicated on the Style Sheet, Appendix A.
- 3.11 Margin data. The required marginal data and their type styles and sizes are indicated on the style sheet, Appendix A. The style sheet also illustrates the preferred positions for the marginal data. Areas of the graphic that are devoid of significant detail may be used for marginal data items. The Guide to Numbered Features and the Index to Streets may be printed on the back (head-to-head) of the sheet; however, the preferred positions for these listings are on the front of the sheet. Where the map consists of more than one sheet and the Guide to Numbered Features and Index to Streets cannot be positioned in the map interiors, they are positioned in the margin so they are not covered or cut off if the sheets are combined to form one map. Items that are common to all sheets are positioned, if practical, so the data appear only once when the sheets are combined.
- 3.11.1 <u>Guide to numbered features</u>. The Guide to Numbered Features is a list of the important features which are identified by numbers on the graphic and in the insets. The Guide is divided into categories as shown on the style sheet.
- 3.11.2 <u>Index to streets</u>. Deviations from the treatment prescribed may be made if required by agreements with other countries. Such deviations will be made only when specified in the supplementary instructions.
- 3.11.3 <u>Symbol legend</u>. Standard symbol legends are not prepared for city graphics. A symbol legend is prepared and tailored to each sheet or set of sheets. As a minimum the following symbols are included in the symbol legend when they appear on the graphic.
 - a. Populated places.
 - b. Buildings.
- c. Roads. A note stating the street lane width is shown below the Map Information Note. Example: A lane is considered as being a minimum of 2.5 meters in width.

- d. Railroads.
- e. Bridges.
- f. Clearance values.
- g. Spot elevations.
- h. Vegetation.
- i. Other symbols as required for the project.
- 3.11.4 <u>Series name</u>. The series name consists of the country name followed by the words "City Graphic". Example: UNITED STATES CITY GRAPHIC.
- 3.11.5 <u>Series number</u>. The Series number provides a unique identification for a group of maps which are common to one another in that they cover a particular geographic area; are on the same sheet line system; are of the same scale or within a scale group; and prepared under the same cartographic specifications. The series number appears in 18 point Bold Condensed upper case type, and is printed in black. The word "series" appears in 10 point Medium Condensed upper case type, and is printed in black.
- 3.11.6 <u>Edition number</u>. The edition number identifies the publication sequence of an individual map. Edition numbers run consecutively; a map bearing a higher edition number is assumed to contain more recent information than the same map bearing a lower edition number.
- a. The standard edition designation consists of: the word "Edition," a cardinal number, a dash, and the coded initial of the mapping agency responsible for the edition. Examples:

EDITION 1 - DMA EDITION 2 - MCE EDITION 3 - GSGS

b. On maps produced by subsidiaries and affiliates of national mapping agencies, the coded initials of the preparing unit are included as a suffixed parenthetical code. Example:

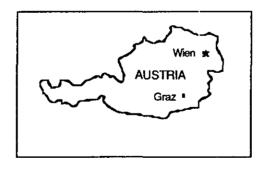
EDITION 2 - DMA (USAEUR)

c. The following are the coded initials of some national mapping agencies which use the described edition designation system:

Australia	AAS
Belgium	IGMB
Canada	MCE
Denmark	GID
France	IGNF
France	SGMF
German Federal	
Republic	DMG
Greece	HAGS
Italy	CIGA
Italy	SMAI
Luxembourg	IGNF.CL
Netherlands	TDN
Norway	NOR
Portugal	SCEP
Turkey	TUHUM
United Kingdom	GSGS

United States..... DMA

- d. The edition number appears in 18 point Bold Condensed upper case type, and is printed in black. The word "Edition" appears in 10 point Medium Condensed upper case type, and is printed in black.
- 3.11.7 <u>DMA stock number/bar code</u>. The DMA Combat Support Center requires the use of DMA stock numbers when ordering maps and bar codes for inventory purposes. A bar code, with the DMA stock number and the edition number included in the alpha-numeric coding, will be place on maps in the lower right corner (see Appendix A). DMA bar codes are shown in two lines. The top line is the bar code. The bottom line shows the stock number and the edition number. See MIL-STD-600010 for further information on bar codes.
- 3.11.8 <u>Sheet number</u>. Sheet numbers are used only if the area of coverage consists of more than one sheet. Sheet numbers are assigned in numerical order from left to right and from top to bottom. Where the sheets are irregularly arranged, the numbering system is modified to fit the arrangement.
- 3.11.9 <u>Multilingual marginal data</u>. The requirement for multilingual marginal data is specified in supplementary instructions for the project.
- 3.11.10 <u>City location diagram</u>. A small scale city location diagram will appear in the margin of each sheet. The sole purpose of the diagram is to show the location of the city relative to the entire country and its capital. The diagram will consist of a rectangular box, not to exceed 762mm X 508mm, enclosing an outline of the single country in question, with the country name. The diagram will show the name and star symbol of the capital, and the name and dot symbol of the subject city. The words "CITY LOCATION" will appear above the box. No other information will appear in the city location diagram. The city location diagram will be oriented to accommodate either a north-south or an east-west orientation of the country. No boundary information will appear for the city location diagram. Two examples of the city location diagram are shown below:





- 3.11.11 <u>Boundaries diagram</u>. Specifications for the boundaries diagram are given on the Style Sheet, Appendix A. No boundary note will appear unless an international boundary falls within the area covered by the city graphic. In that case, the following note will appear under the boundaries diagram: "Boundary representation is not necessarily authoritative."
- 3.11.12 <u>Publication note</u>. Each map produced by or for DMAHTC contains a publication note which reads:

Prepared and published by the Defense Mapping Agency Hydrographic/Topographic Center, Washington, D.C.

- 3.11.13 <u>DMA seal</u>. The Defense Mapping Agency seal is shown on maps prepared by or for DMAHTC. The seal appears in the lower margin as shown on the style sheet and is printed in black.
- 3.11.14 <u>Printing note</u>. The printing note will identify the center printing the map, plus the month and year of printing.
 - a. For maps printed at DMAHTC, the printing credit will be shown as:

Printed by DMAHTC 5-87

b. For maps printed by other agencies or military commands, the note will be shown as:

Printed by USGS 5-80

3.11.15 <u>User's note</u>. Each unclassified map prepared by or for DMAHTC contains a user's note which reads:

USER'S SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS FOR IMPROVING THIS PRODUCT TO: DIRECTOR, DEFENSE MAPPING AGENCY ATTN: PR, 8613 LEE HIGHWAY FAIRFAX, VA 22031-2137

This note is not shown on classified maps.

- 3.11.16 Security classification notes.
- 3.11.16.1 <u>Classification marking</u>. Under certain circumstances maps are required to bear a security classification marking.
- 3.11.16.2 <u>Downgrading/Declassification note</u>. Each map bearing a security classification marking also identifies the classifier and contains downgrading/declassification instructions.
- 3.11.16.3 <u>Special handling notes</u>. Certain maps, classified or unclassified, require notes which restrict their distribution.
- a. Caveat or Special Handling Note. A caveat may be required on maps classified confidential or higher. Example:

NOT RELEASABLE TO FOREIGN NATIONALS

b. Restricted Dissemination Note. A note of this type may be required on UNCLASSIFIED maps. Example:

LIMITED DISTRIBUTION: Distribution authorized to the Department of Defense, U.S. DoD contractors and to U.S. Government Agencies supporting DoD functions (by authority of the Director, Defense Mapping Agency, 30 May 1990). Other requests shall be referred to Headquarters, DMA, ATTN: SOP. Destroy as "For Official Use Only."

- 3.12 Culture.
- 3.12.1 Roads. The road classifications are:

- a. Divided highways and boulevards.
- b. Primary roads and through streets.
- c. Secondary roads and streets.
- d. Drives in parks and cemeteries; narrow streets in "old town" and casbah areas.
 - e. Tracks and trails.
- 3.12.1.1 <u>Route markers</u>. Route markers are shown for international, national and secondary routes. Secondary routes include roads under the jurisdiction of states, provinces, prefectures and similar administrative divisions of a country.
- 3.12.2 <u>Railroads</u>. City graphics contain as much information pertaining to railroads and related features as the scale will allow. Where information is available, railroad stations are shown in their position with relation to the track. Car lines are interpreted to include both interurban and streetcar lines.
 - 3.12.3 Tunnels. Road and railroad tunnels are shown.
- 3.12.4 <u>Bridges</u>. Road and railroad bridges are shown. When known bridge names will be applied.
- 3.12.5 <u>Clearance values</u>. Width and height constrictions for bridges and tunnels are indicated where the information is available.
- 3.12.5.1 <u>Construction material</u>. When available, information on construction material, type of structure, and load capacity in tons for road and railroad bridges is shown in a parenthetical note.
- Populated places. The concept of a populated place is based on the proximity of the buildings and includes areas of dense, moderate and sparse development. The limits are generally established where the street patterns end and the scattered buildings cannot logically be considered as part of the populated place. The portrayal of populated place is designed to reflect the density and structural characteristics of the buildings and the distinctive symmetry of the street patterns. Most populated places are made up of densely built-up areas where the majority of the buildings are of masonry-type construction and moderately to sparsely built-up areas where there are spaces between the buildings and the construction ranges from a mixture of masonry and wood to mostly wood or, in some cases, adobe or similar type of material. Many large cities also contain compact impoverished areas of unstable construction. A populated place may contain one or more of the different types of development. Where the source materials do not contain this information, the entire area is treated as one type of development and shown as moderately to sparsely developed areas and identified in the legend simply as "Populated Places."
- a. Densely built-up areas. This type of development includes all areas where the roof cover is practically continuous. The area is generally characterized by multi-story masonry buildings and is indicative of the commercial, apartment or tenement districts, and hard-core, old-town areas. Casbah-type developments, found in many large cities in North Africa and the Middle East, are also included in this category. This type of development is made up of a dense agglomeration of masonry or clay buildings fronting on narrow, winding streets and alleys.

- b. Moderately to sparsely developed areas. The greater portion of most cities falls into this category. The predominant characteristic of these areas, besides the moderate to sparse building density, is the symmetrical alignment of the streets. Rows of closely spaced buildings that are finger like extensions of a populated place are included within the populated-place symbol.
- c. Native settlements and shantytowns. Many large cities have satellite communities usually located on the outskirts of the urban area. The inhabitants are squatters who build crude non-permanent dwellings on ground which is generally unusable for any kind of development, such as the sides of steep hills, and swampy ground. These communities have few, if any streets and range from native huts, as in North Africa, to shantytowns or barrios in Spanish-speaking areas. These areas are very dense, have definite limits, and are distinct from the conventional types of developed areas within the city.
- d. Detached areas. Built-up areas which are detached from the city proper are shown independent of the larger urban area.
- e. Open areas. Areas of no development falling inside the overall development tint areas are excluded from the tint areas.
- f. Destroyed areas. A destroyed populated place is one that has been made uninhabitable as a result of a natural catastrophe or military operation.
- g. Buildings. Important buildings and those buildings that have landmark significance are the only buildings individually represented. Only those buildings which fall within the categories listed in 3.12.6.h and which can be identified as such are symbolized as important buildings.
- h. Important buildings and installations. Important buildings and installations are grouped into the following categories:
- (1) Commercial and industrial. All types of enterprises and facilities which are important to the resources and economy of the country or area are included in this category.
- (2) Embassies and consulates. All buildings that have diplomatic status are included in this category.
- (3) Government buildings. These are buildings that house national and local agencies and bureaus.
- (4) Hospitals. All hospitals (civilian and military) are shown, including related facilities such as clinics and dispensaries.
- (5) Military establishments. This category includes all facilities under control of the military or naval establishments. (except hospitals).
 - (6) Schools.
- (7) Utilities. These include government and privately-owned power, transportation, and communication facilities.
- (8) Places of worship. This category includes important or large religious buildings of national or area significance.
- (9) Miscellaneous. This category includes buildings or features that have national or area importance or prominence but do not fall in one of the above categories. Included are:

- (a) Hotels which cater to foreign tourists. When this information is not available, all major hotels are presumed to fall into this category.
 - (b) Museums.
- (c) Eminent monuments (may be shown by landmark object symbol).
 - (d) Large Auditorium.
 - (e) Opera Houses.
- i. Identification outlines. Included are building complexes, airfields, port facilities, military installations, etc.
- j. Landmark buildings. Landmark buildings include, but are not limited to the following:
- (1) Schools not identified as important buildings (high school, elementary).
 - (2) Religious buildings not identified as important.
 - (3) Factories not identified as important.
 - (4) Theaters, stadiums, large greenhouses.
 - (5) Railroad stations other than main station.
- k. Destroyed buildings. Destroyed important buildings are symbolized if of landmark significance.
 - 3.12.7 Miscellaneous cultural features.
- 3.12.7.1 <u>Power transmission lines</u>. High-tension lines are shown wherever they occur. Low-tension distribution lines and telegraph and telephone lines are not shown.
 - 3.12.7.2 Pipelines. Above-ground pipelines are shown.
- 3.12.7.3 <u>Walls and fences</u>. Walls and fences within the city are shown for their landmark significance.
- 3.12.7.4 <u>Landmark areas</u>. Areas designed for purposes other than structural development and which serve as landmarks are outlined and labeled. Included, but not limited to are:
 - a. Botanical Gardens.
 - b. Cemeteries.
 - c. Parks.
 - d. Ball parks and sports fields.
 - e. Golf courses.
 - f. Zoos.

- g. Tank farms.
- h. Mining Areas (strip mines, quarries).
- i. Large amusement parks/fairgrounds.
- j. Transformer yards.

Outlined areas may contain roadways, drives, and buildings.

- 3.12.7.5 Race tracks. Race tracks are to be considered landmarks.
- 3.12.7.6 <u>Cuts and fills</u>. Cuts and fills are shown only where they are conspicuous, and have landmark significance.
 - 3.12.7.7 Mines. Mines are shown by the basic mine symbol.
- 3.12.7.8 <u>Dams and reservoirs</u>. The dams for large reservoirs which are of landmark value are shown to scale.
- 3.12.7.9 <u>Landmark objects</u>. Landmarks objects are those features, other than buildings, that are useful as reference points either because their size makes them prominent or they are easy to identify because of their shape. These include:
 - a. Chimneys.
 - b. Towers.
 - c. Beacons.
 - d. Monuments.
 - 3.13 Hydrography.
 - 3.13.1 Inland hydrography.
 - a. Perennial Streams.
 - (1) The major drainage network is shown.
- (2) If flow arrows are necessary to indicate the direction of flow, they are shown.
- b. Intermittent streams are shown only where the network of perennial drainage is sparse.
 - c. Aqueducts are shown for their orientation value.
 - d. Flumes and penstock are shown for their orientation value.
 - e. Major ditches are shown only if they have landmark value.
 - f. Springs and wells are shown only in areas of sparse drainage.
- 3.13.2 <u>Coastal hydrography</u>. Except for coastal marsh, no foreshore or offshore hydrographic data are shown. Shorelines are plotted at mean high water.
- 3.14 <u>Hypsography/Physiography</u>. Terrain should be depicted only if its depiction is of major importance to the determination of cover, concealment,

fields of fire, vantage points, movement routes or for land navigation.
"Major importance" implies outstanding formations which cannot easily be visually translated from smaller scale products by the user.

- 3.14.1 <u>Contours</u>. Contours are shown only when specific instructions for their inclusion are contained in supplementary instructions. Terrain may be depicted either by contours, spot heights, or both contours and spot heights, whichever satisfies the requirement. The instructions for the portrayal of contours and spot heights are contained in supplementary project instructions.
- 3.14.2 <u>Unique features</u>. Treatment of unique features or conditions not covered in this specification is contained in supplementary project instructions. These features could include an Atlas Grid, certain types of vegetation, and special relief features.
 - 3.15 <u>Vegetation features</u>.
- 3.15.1 <u>Woods</u>. Forest areas and significant stands of trees which have landmark value or provide substantial concealment.
- 3.15.2 <u>Shelterbelts</u>. These are belts of natural growths or planted trees.
 - 3.16 <u>Demarcation</u>.
 - 3.16.1 Boundaries.
 - a. The boundaries shown are:
 - (1) International.
 - (2) Other lines of Separation of Sovereignty.
 - (3) First-order Administrative.
 - (4) Second-order Administrative (County, Parish ...).
 - (5) Municipal (when available).
- b. The treatment of Other Lines of Sovereignty is cited in supplementary instructions.
 - 3.17 Aeronautical.

- 3.18 Names and labeling. Names are spelled in accordance with the policies of the U.S. Board on Geographic Names (BGN) and the Department of Defense.
- a. Refer to MIL-STD-600002, MIL-STD-600003, MIL-STD-600004, for proper naming and labeling of applicable features.
- b. The following is a list of features of which may not appear in Table I and Table II, but may be named on the final product. Definitions for the following features may be found in MIL-STD-600004.

EXAMPLE NAME Outer Banks Banks Great Basin Basin Chesapeake Bay Bav Virginia Beach Beach Bench Bend Bluff Bottom Break Butte Grand Canyon Canyon Cape of Good Hope Cape English Channel Channel New York City City Cliff Tysons Corner Corner Cove Crossing Sahara Desert Desert Dome Florida Everglades Everglade Falls Flat Black Forest Forest Gap Gorge Gulch Gulf of Mexico Gulf Gut Hamlet Boston Harbor Harbour Head Highland Hill Hole Hollow Hamilton Inlet Inlet Hawaiian Islands Island Chain Junction Jungle Knob Knoll Lagoon Lake Lands Lookout Marina Mesa Mountain Rocky Mountains Mountain Range Narrows Neck Neck Atlantic Ocean Ocean Yellowstone National Park Park Pass

Pikes Peak

Passage

Peak Peninsula

Plain Great Plains
Plateau Colorado Plateau
Point

Pool Port

Range Coastal Range

Ravine Region Ridge River Roadstead Rock

Sands Sea Caribbean Sea

Sink

Sound Puget Sound

Spit Spring Spur

Strait Bering Strait

Town Valley

Valley Death Valley

Village Greenwich Village

Wood

- c. Generic Terms and Descriptive Labels.
- (1) A generic term that is part of the name is shown in its native (transliterated or romanized) form.
 - (2) Descriptive labels are shown in their English translation.
- (3) Abbreviations for terms, such as No. for number, Co. for company, or Corp. for corporation, may be used if the names are shown in their English form.
 - d. Roads and Streets.
 - (1) All available road and street names are shown.
- (2) Where space is a problem, variations in the treatment of street names are specified in supplementary instructions for the project.
- (3) If a majority of street names cannot be accommodated, it may be an indication that the graphic has been prepared at the wrong scale.
 - e. Important Buildings and Installations.
- (1) Identification numbers are shown for all features that are identified as important buildings and installations and listed in the Guide to Numbered Features.
- (2) Buildings within a complex or installation are not named or numbered.
- f. Landmark Buildings. Landmark buildings are named or identified by descriptive labels where information is available.
 - g. Populated Places.
- (1) The name of the populated place for which the sheet is named is not shown in the graphic interior. It is always shown in the environs.

- (2) All other populated places are named on the graphic and the insets.
 - (3) Suburb names are shown on the graphic and large-scale insets.
- h. Boundaries. Administrative divisions (first-order, second-order) are identified in the Boundaries Diagram.
 - 3.19 Radar. This section is not applicable to this specification.
 - 3.20 Annotation. This section is not applicable to this specification.
- 3.21 <u>Special areas</u>. This section is not applicable to this specification.
- 3.22 <u>Symbology</u>. Symbology for the City Graphic shall be in accordance with MIL-STD-600002. Unless otherwise specified, the center of a symbol shall correspond to the true location of the feature being represented, and the orientation of the symbol shall be in accordance with its relation to surrounding features. All linear features shall be plotted in their true position and whenever scale permits, shall reflect the realignment which actually exists; that is, the alignment of straight ways, curves and angles, shall be retained as nearly as practicable. Displacement of symbology, when necessary, should be in compliance with MIL-STD-600003.

3.23 Reproduction.

a. General.

- (1) Reproduction is by lithography.
- (2) Color blocks, when used, are positioned outside the trim lines.
- b. Paper. City graphics are printed on JCP E-30 paper (Offset Book Map-Lithographic Finish).
 - c. Printing Colors and Screens.
 - (1) See MIL-STD-600005 for listings of colors and screens.
- (2) A halo mask is prepared from the roads and streets names for use when processing the road and street symbols and the three populated places tints. The width of the halo is $0.20\,\mathrm{mm}$.
- (3) Route markers are cleared of road and street symbols and complex outlines, vegetation and populated place tints.
- d. Finishing. All sheets, when trimmed, are not to exceed 106 cm by 147 cm.
- e. Typography. Type and styles are included in MIL-STD-600002 and MIL-STD-600005.

3.24 Feature/Attribute.

3.24.1 <u>General</u>. This section contains feature, feature attributes category, feature attribute category value, inclusion condition and specific rules corresponding to City Graphics production.

3.24.2 <u>Feature/Attribute category, inclusion conditions and product generation rules</u>. The following is an explanation of the header format for Table I and Table II:

FCode Feature FT ACode Attribute Inclusion Condition Rule
(1) (2) (3) (4) (5) (6) (7)

- (1) F(Feature)Code 5 digit alpha numeric, Feature Attribute Coding Standard (FACS) Code assigned to each feature (e.g. 1N010 R/R Tracks). The first two digits identify the category and subcategory to which each feature belongs (e.g., 1 Culture Category, N = Transportation R/R subcategory).
- (2) Feature Name of feature as specified in the FACS. A feature is a physical (e.g., Bridge) or conceptual (e.g., Route- Nautical) entity of the real world which has one or more set of coordinates to be included on a product.
 - (3) Feature Type designation of a feature type.

Area - More than two sets of coordinates defining a closed area; areas may span more than one map sheet or geographic area requirement.

Line - Two or more coordinate sets defining a series of line segments.

Point - One set of coordinates.

If there is more than one Feature Type for the feature, then the ACode and Inclusion conditions are stated separately for each type.

- (4) A(Attribute)Code Three digit alpha or alpha numeric character (acronym) FACS code assigned to each attribute category which identifies the attribute category (e.g., EXS Existence Category). Attribute categories are defined by mutually exclusive sets of attribute values which are feature dependent. Attribute values relative to product are normally contained in MIL-STD-600002 under column headed "AValue", a few exceptions are contained in the inclusion conditions.
- (5) Attribute Name of attribute category required by the feature as specified in the FACS. Attribute categories are characteristics in menu form relative to a specified feature or features.
- (6) Inclusion conditions Conditions under which the feature/ attribute(s) are required by the product (e.g., R/R Yard, 1N080 FAC Code, is included on a particular product only if Length >= 450m). Conditions should be stated in boolean logic.
- (7) Rule 5 digit alpha-numeric code indicating rules (listed in MIL-STD-600003) which specify requirements for feature to satisfy final product format/requirements.

3.25 Insets.

3.25.1 Environs inset. The environs inset is a medium-scale inset, preferably at the scale of 1:250,000, but it may be produced at scales of 1:100,000 to 1:500,000 depending on the extent of the area to be shown and the scale of the source material. This inset is shown only when standard medium-scale mapping of the area is unavailable to the user. The requirement for the inset is specified in supplementary instructions for the project.

- (1) The limits of the inset are established so that it covers sufficient area to orient the city graphic with relation to other important towns and features.
 - (2) Maximum East-West size of inset is 19.0cm.
- (3) A black outline of $0.25 \,\mathrm{mm}$ is used to indicate the area of the graphic on the inset.
- 3.25.2 <u>Large-Scale insets</u>. Large-scale insets are used to show a significant feature which falls outside the area of the graphic. If a standard large-scale map is available which adequately portrays the required feature, the inset is not necessary. The inset is to be the same scale as the graphic. Additional instructions for the preparation of the insets are indicated on Appendix A. The requirement for an inset will be specified in supplementary instructions.
- 3.25.3 <u>Size</u>. The overall size of the inset will vary for each graphic.
- 3.25.4 <u>Position</u>. The preferred position for the inset is the interior of the graphic in an area devoid of significant detail. However, if the area of insignificant detail is not adequate, the inset is positioned in the margin.
- 3.25.5 <u>Detail density</u>. The density requirements for the inset, as specified in the supplemental instructions, are commensurate with the purpose rather than its scale.

4. QUALITY ASSURANCE PROVISIONS

- 4.1 Responsibility for inspection. "Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. Except as otherwise specified in the contract or purchase order, the contractor 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 this specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements".
- 4.1.1 Responsibility for compliance. "All items shall meet all requirements of sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements, however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to accept defective material".
- 4.1.2 <u>Final product quality</u>. Final product quality will reflect the quality expressed by each applicable Military Standard.

5. PACKAGING

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory).

- 6.1 <u>Intended use</u>. City graphics are large-scale graphics of populated places and their environs. City graphics contain environs insets when standard medium-scale mapping of the area is unavailable to the user. The City Graphic is produced to support several intended uses such as, tactical land contour, combat and evacuation operations, attache support, military intelligence, national intelligence, training, civil disturbance, and other operational use.
- 6.2 <u>Supersession</u>. This specification supersedes Defense Mapping Agency Product Specifications for City Graphics, PS/3CB/301, First Edition, July 1979.

6.3 Definitions.

- 6.3.1 <u>Mean sea level</u> (MSL) The average height of the surface of the sea for all stages of the tide, used as a reference for elevations. (Usually determined by averaging height readings observed hourly over a minimum period of 19 years)
- 6.3.2 <u>World Geodetic System (WGS)</u> A consistent set of parameters describing the size and shape of the Earth, the positions of a network of points with respect to the center of mass of the Earth, transformations from major geodetic datums, and the potential of the Earth (usually in terms of harmonic coefficients).

6.4 International standardization agreements.

"Certain provisions of this specification are subject to international standardization agreements. When amendment, revision, or cancellation of this specification is proposed that will modify the international agreement concerned, the preparing activity will take appropriate action through international standardization channels, including departmental standardization offices, to change the agreement or make other appropriate accommodations".

6.4.1 International standardization agreements (STANAGS).

This section is not applicable to this specification.

6.4.2 Quadripartite standardization agreements (OSTAGs).

This section is not applicable to this specification.

6.4.3 <u>Air standardization coordinating committee agreements (ASCC AIR STDs/STDs/ADV PUBs)</u>.

This section is not applicable to this specification.

6.4.4 International MC&G agreements.

This section is not applicable to this specification.

6.4.5 Executive orders.

6.4.6 <u>Inter-Agency agreements</u>.

This section is not applicable to this specification.

6.4.7 Other documentation.

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city Graphics.

Fcode	Feature	Attribute	Inclusion Condition	Rule
1A010	MINE			
선 ● #	EXX EXX W P N A N N N N N N N N N N N N N N N N N	Existence Category Length /Diameter Mining Category Name Category Product Category Width	(PRO 9 or 10 or 15 or 16 or 17 or 19 or 24 or 28 or 29 or 38 or 46) and (MIN 0 or 2 or 3 or 4 or 5 or 6 or 7) and >= 5 mm WID (map scale) and (EXS 6 or 28)	144811411114444 14481111114444 1446111111444 1446111111444 1446111111444 1446114411111111
Point	T EEN MIN MIN MIN MIN MIN MIN MIN MIN MIN MI	Existence Category Length / Diameter Mining Category Name Category Product Category Width	(PRO 9 or 10 or 15 or 16 or 17 or 19 or 24 or 28 or 29 or 38 or 46) and (MIN 0 or 2 or 3 or 4 or 5 or 6 or 7 or 8) and (EXS 6 or 28) and < 5 mm WID (map scale)	HHTCLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL

CG CULTURE (1) EXTRACTION (1A)

PRODUCT : CATEGORY : SUBCATEGORY:

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

# D O O B	Feature	Attribute	Inclusion Condition	Rule
1,030 0	QUARRY			
Ar e	M W U W W U W W U W W U W W W W W W W W	Existence Category Length / Diameter Product Category Width	and (EXS 6 or 28)	LL
Point	EXX FEN FEN FEN FEN FEN FEN FEN FEN FEN FEN	Existence Category Length /Diameter Product Category Width	(EXS 6 or 28) and < 5 mm WID (map scale)	L 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1A050 W	WELL			
Point	E N N N N N N N N N N N N N N N N N N N	Existence Category Hydrographic Category Name Category Product Category	HYC 8 and EXS 28	L-1-41139 L-1-41139 L-1-41140 L-1-41140 T-0-4149

CG CULTURE (1) EXTRACTION (1A)

PRODUCT : (CATEGORY : C

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

Foode Feature FT Acode	Attribute	Inclusion Condition	Rule
DISPOSAL SITE	SITE /WASTE PILE		
E E E E E E E E E E E E E E E E E E E	Existence Category Length /Diameter Product Category Width	>= 5 mm WID (map scale) and (PRO 30, 32, 33, or 59)	L-4137 R-2411 R-2470 R-2482 T-0420
WRECKING	YARD /SCRAP YARD		
EX EEN WID	Existence Category Length /Diameter Width	>= 5 mm WID (map scale)	L-4137 R-2411 R-2470 R-2482 T-0420

PRODUCT : CG
CATEGORY : CULTURE (1)
SUBCATEGORY: DISPOSAL (1B)

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

Rule		L-4137 R-2470 R-9004							
Inclusion Condition		>= 5 mm WID (map scale)							
Atribute	SETTLING BASIN /SLUDGE POND	Length /Diameter Width							
Feature	SETTLING	WEEN				\	,	•	

CG CULTURE (1) PROCESSING INDUSTRY (1C)

PRODUCT : CATEGORY : SUBCATEGORY: 1

Feature

Fcode

Area

10030

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

Rule		L-4137 R-2411 R-2470 R-2482	L-4137
Inclusion Condition		>= .6 mm WID (map scale)	(.6 mm WID (map scale)
Attribute	SUBSTATION /TRANSFORMER YARD	Length /Diameter Width	Length /Diameter Width
Acode	SUBSTATION ,	LEN WID	LEN
E-	10030	Area	Point

CG CULTURE (1) POWER GENERATION (1D)

PRODUCT : CATEGORY : C

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

PRODUCT : CATEGORY : SUBCATEGORY:	ORY::	CG CULTURE (1) ASSOCIATED I	NDUSTRIAL STRUCTURES	(1F)		
epool F	Feature	Attribute	ute	Inclusion	Condition	Rule
17010	CHIMNEY /SMOKESTACK	SMOKESTAC	×			
Point	H G H	Height	Height Above Surface Level	>= 10 m HGT	HOT B	L-4137
1F020	CONVEYOR					
Line	LEN	Length	Length /Diameter	, a 5	.85 mm LEN (map scale)	R-2464
1F030	COOLING TOWER	OWER				
Area	LEN	Length	Length /Diameter	· . 8 nm LEN	B LEN	N-0000
Point	LEN	Length	Length /Diameter	, 11	an LEN	R-0046
1F040	CRANE					
Point	CRA	Crane	rane Attribute	All re	All required	T-0812

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

TT : CG TEGORY: INSTITE FEATURE FORT FORT ACODE ACODE		Rul		N-00		H H H H H H H H H H H H H H H H H H H	R - 24
TT : CG DRY : CULTURE (1) FEGORY: INSTITUTIONAL /GOVERNMENTAL FORT FIRING RANGE BAD Base Width LEN Length /Diameter TWA Terminal Arc FORT LAC Length /Diameter LMC Landmark Category WID Width The Landmark Category WID Length /Diameter LAC Length /Diameter LAC Landmark Category WID Width WID Width WID Width WID Name Category WID Name Category		Inclusion Condition		>= 5mm LEN (map scale) and >= 2.5mm BWD (map scale)		LMC 1 and >= .8 mm WID (map scale)	LMC 1 and <= .8 mm WID (map scale)
TEGONY::: FORT TEGET::: FORT TEGET::: FULL F	. /GOVERNMENTAL	Attribute	NGE	Base Width Length /Diameter Terminal Arc		Length /Diameter Landmark Category Width	Length /Diameter Landmark Category Name Category Width
2800 CAND SUBC SUBC SUBC SUBC SUBC SUBC SUBC SUBC	PRODUCT : CG CATEGORY : CULT SUBCATEGORY: INST	Fcode Feature FT Acode	1H045 FIRING RAN	Area BWD LEN TWA	1H050 FORT	Area LEN LMC WID	Point LEN LMC NAM

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

Rule		L-4137 R-2411 R-2482 R-2470 T-0420
Inclusion Condition		>= 5 mm WID (map scale)
Attribute	FEED LOT /STOCKYARD /HOLDING PEN	Existence Category Length /Diameter Width
Feature	FEED LOT	exs Len Wid
900 E	13030	Area

CG CULTURE (1) AGRICULTURAL (1J)

PRODUCT : CATEGORY : C

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

D H	Acode	Attribute	Inclusion Condition	Rule
1K030	AMUSEMENT PARK	PARK		
A r e	LEN NAM WID	Length /Diameter Name Category Width	on 5 mm WID (map scale)	LL-1125 LL-14133 LL-14133 LL-14133 LL-14133 LL-1413 LL-1413
1K040	ATHLETIC FIELD	IELD		44 44 54
Area	LEN NAM WID	Length /Diameter Name Category Width	>= 1.5 nm WID (nap scale)	L-4132 L-4133 L-4133 L-4133 R-24140 R-2411 R-2470 L-482
1K090	FAIRGROUNDS	v		
Area	LEN NAM WID	Length /Diameter Name Category Width	>= 5 mm WID (map scale)	L-4132 L-4133 L-4133 L-4133 L-4133 R-4140 R-2411 R-2471

(1K)

CG CULTURE (1) RECREATIONAL (

PRODUCT : C CATEGORY : C SUBCATEGORY: I

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Feature	Attribute	Inclusion Condition	Rule
18100	GOLF COURSE			
A r e e	LEN NAM WID	Length /Diameter Name Category Width	>= 5 nm WID (map scale)	L-441325 L-441332 L-441333 L-441333 L-441334 R-24140 R-24411 R-2440
11110	GRANDSTAND			
				4.1
Area	LEN	Length /Diameter		1.14132
				* * * * * * * * * * * * * * * * * * * *
				11-4153
				L-4137
				1-4139
				L-4140
				R-2411
				0 0
				0 4 4 4
				K-2482
11115	OUTDOOR THE	OUTDOOR THEATRE /AMPITHEATRE		
				L-4125
Area	NAM	NATURAL CACAGOLY	h 1 1 1 1 1 1 1 1 1	L-4132
	MID	Width		1-4133
				L-4137
				L-4139
				L-4140
				R-2411
				R-2470
		-		R-2482

CG CULTURE (1) RECREATIONAL (1K)

PRODUCT : CATEGORY : SUBCATEGORY:

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

D D D D D D D D D D D D D D D D D D D	Feature	Attribute	Inclusion Condition	Rule
1K120	PARK			
A r e	LEN WID WID	Length /Diameter Name Category Width	>= 5 mm WID (map scale)	L-4125 L-4132 L-4133 L-4133 L-4139 R-2411 R-2410
1K130	RACE TRACK			
rine	N N N N N N N N N N N N N N N N N N N	Length /Diameter Name Category Width	>= 5 mm LEN (map scale) and >= 2.5 mm WID (map scale)	L-4125 L-4133 L-4133 L-4133 L-4137 L-4130 R-2411 R-2411
1K160	STADIUM			
A n e	N I D W I D W I D	Length /Diameter Name Category Width	>= 5 mm WID (map scale)	L-4125 L-4132 L-4133 L-4133 L-4140 R-2471 R-2470

PRODUCT : CG CATEGORY : CULTURE (1) SUBCATEGORY: RECREATIONAL (1K)

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

FC 0 0 0	Feature	Attribute	Inclusion Condition	Rule
1K170	SWIMMING POOL	700.		
Area	LEN	Length /Diameter Width	>= 1.5 mm WID (map scale)	L-4125 L-4132
				L-4133 L-4137
				R-2411
				R-2470
				R-2482
1K180	200			
	5	こうななけた 人口におおかけると	~	L-4125
4 4 4	4 4			L-4132
	242			L-4133
	71			L-4137
				L-4139
				L-4140
				R-2411
				R-2470
				R-2482

(1K)

CG CULTURE (1) RECREATIONAL (

PRODUCT : CATEGORY : SUBCATEGORY:

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

d (BFC 1 or 2 8 or 10 14 or 15 or 10 25 or 26 or 3 31 or 32 or 54 or 55 or 60 60 or 61) d > .8 mm WID d (HWT 2 or 3 d (HWT 2 or 3 d > .8 mm WID d IDN ANY d BFC 1 or 2 8 or 9 or 10	Ligious Denomination caregory plomatic Building Structure and use of Worship Type entification Number ngth / Diameter ndmark Category me Category ligious Denomination dth an a
14 or 15 or 20 or 25 or 25 or 26 or 27 or 33 or 33 or 30 or 60 or 61) > .8 mm WID (map LMC 1 NAM ANY HWT 2 or 3 or 4 (HWT 2 or 3 or 4	a a a a a a a a a a a a a a a a a a a

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Feature	Attribute	Inclusion Condition	Rule
11015	BUILDING	(Continued)		
Point	T X X X X X X X X X X X X X X X X X X X	Building Function Category Diplomatic Building Structure Educational Building Type Existence Category Height Above Surface Level House of Worship Type Identification Number Landmark Category Name Category Religious Denomination Width	and (BFC 1 or 2 or 3 or 4 or 5 or 6 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 o. 30 or 31 or 32 or 33 or 51 or 55 or 55 or 56 or 57 or 58 or 59 or 60 or 61) and <= .8 mm WID (map scale) and (HWT 2 or 3 or 4 or 6 or 9 or 11 or 16 or 20) and thw 2 or 3 or 4 or 6 or 9 or 11 or 16 or 20) and the 2 or 3 or 4 or 6 or 9 or 11 or 16 or 20) and the 2 or 3 or 4 or 5 or 3 or 6 or 20 or 31 or 20	11111111111111111111111111111111111111

CG CULTURE (1) MISCELLANEOUS FEATURES (1L)

PRODUCT : CATEGORY : SUBCATEGORY:

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

Fcode	Feature	Attribute	Inclusion Condition	Rule
11020	BUILT-UP AREA	US.A.		
र ७ म	EXX N EN W W I D	Existence Category Length / Diameter Name Category Width	># 5 nm WID (map scale)	TLL TLL
11030	CEMETERY			
Агва	D L W W W N C L	Length /Diameter Name Category Religious Denomination Width	>= 5 mm WID (map scale) and (REL 1 or 2 or 4 or 3 or 0)	LL

CG CULTURE (1) MISCELLANEOUS FEATURES (1L)

PRODUCT : CATEGORY : SUBCATEGORY:

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

e po o o o o	Feature	Attribute	Inclusion Condition	Rule
11045	COMPLEX OUTLINE	ILINE		
Area	A H H H H H H H H H H H H H H H H H H H	Aircraft Facility Type Building Function Category Existence Category Identification Number Missile Site Attribute Missile Site Type Power Plant Category Product Category	IDN ANY and (AFT 0 or 1) and BFC ANY and (EXS 6 or 28) OR BFC ANY and EXS 28 and BFC ANY and (EXS 6 or 28) and EXS 1 or 2) OR PPC ANY and EXS 28 OR BFC ANY and EXS 28 or BFC ANY and EXS 28 and IDN ANY and EXS 28	LL
11070	FENCE			
Line	LEN	Length /Diameter Landmark Category	>= 25 mm LEN (map scale)	R-2463
11120	MISSILE SI	SITE		
Point	t IDN LEN MSA WID	Identification Number Length /Diameter Missile Site Attribute Name Category	<pre>< 5 mm WID (map scale) and < 5 mm LEM (map scale) and MSA 3</pre>	N-0000

CG CULTURE (1) MISCELLANEOÜS FEATURES (1L)

PRODUCT : CATEGORY : SUBCATEGORY :

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

F GOOD	Feature	Attribute	Inclusion Condition	Rule
11130	MONUMENT			
Point	NAM O S S	Name Category Structure Shape Category	All required	L-4109 L-4111 L-4137 L-4139 L-4140
11135	NATIVE SETTLEM	SEMENT		
Area	C P P P P P P P P P P P P P P P P P P P	Cultural Feature Density Length /Diameter Name Category Native Settlement Type Width	>n 5 mm WID (map scale)	LL- LL- LL- LL- LL- LL- LL- LL- LL- LL-
11160	PIPELINE /PIPE	34.		
Line n	PROC	Length /Diameter Location /Origin Category Product Category	(LOC 1 or 3 or 4) and (PRO 6 or 12 or 13 or 18 or 27 or 0) and >= 25 mm LEN (map scale)	L-4137 L-4147 R-2410 R-2460 T-0409
12170	PLAZA /CITY	SQUARE		
A K e a	WID	Name Category Width	WID > Associated Feature (12030)	L-4109 L-4125 L-4137 R-2470 R-9006

CG '/, CULTURE (1) MISCELLANEOUS FEATURES

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

TCO Ge	Feature	Attribute	Inclusion Condition	Rule
1L180 P	PUMPING STATIO	NOIL		
A rea	I DN L EN W I D	Identification Number Length /Diameter Width	>= .8 mm WID (map scale)	L-44110 L-44110 L-441137 R-2408 R-2411 R-2411
Po in the contract of the cont	I DN LEN WI D	Identification Number Length /Diameter Width	< .8 um WID (map scale)	L - 41109 L - 41110 L - 41125 L - 4137 R - 2408 R - 2408
1L200 R	RUINS			
Area	LEN LOC NAM WID	Length /Diameter Location /Origin Category Name Category Width	>= .8 mm WID (map scale) and LOC 03	L-4132 L-4137 L-4143 R-2470

(1r)

CG CULTURE (1) MISCELLANEOUS FEATURES

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

	Acode	Attribute	Inclusion Condition	Rule
	SHANTYTOWN			
Area	0 i	Cultural Feature Density	on 5 mm WID (map scale)	L-4118
	K FE	Length /Diameter Width		L-4125
				R-2400
				R-2401
				R-2459
				R-2468
				R-2470
				R-2473
				R-2482
				R-9002
				R-9003
				T-0418
	TOWER (NON-	TOWER (NON- COMMUNICATION)		
4 4 4 4	Ç E	# # # # # # # # # # # # # # # # # # #		
		rower rype caregory	All required	L-4109 L-4111 L-4137
	WALL			
Line	LEN	Length /Diameter Landmark Category	>= 25 mm LEN (map scale)	R-2462 R-2463
)

PRODUCT : CG CATEGORY : CULTURE (1)
SUBCATEGORY: MISCELLANEOUS FEATURES (1L)

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

	Rule		L-4125 L-4134 R-2403 R-2406 R-2411 R-2411		L-4110 L-4110 L-4125 L-4137 R-2408 R-2408 T-2458	E-4110 F-4110 F-41137 F-4137 R-2408 R-2408		L-4110 L-4110 L-41125 L-41125 R-24137 R-2419 R-2419
	Inclusion Condition		ун 1.0 mm WID (map scale)		> .8 mm WID (map scale)	(= .8 mm WID (map scale)		8 mm WID (map scale)
: CG : CULTURE (1) DRY: STORAGE (1M)	Feature Acode Attribute	DEPOT (STORAGE)	LEN Length /Diameter LOC Location /Origin Category WID Width	GRAIN BIN	LEN Length /Diameter LMC Landmark Category WID Width	LEN Length /Diameter LMC Landmark Category WID Width	GRAIN ELEVATOR	LEN Length /Diameter LMC Landmark Category WID Width
PRODUCT : CATEGORY : SUBCATEGORY:	6 E	1M010	Агөа	1M020	Ar e	Point	1M030	리 다 나

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

e E	Feature Acode	Attribute	Inclusion Condition	Rule
1 M 0 4 0	MINERAL PILE	37		
A ::	LEN PRO WID	Length /Diameter Product Category Width	>н .5 ын WID (нар scale)	R-2470 R-2482 R-2411
1M060	STORAGE BU	BUNKER /STORAGE MOUND		
Point	PRO	Product Category	(PRO 0 or 2 or 11 or 13)	L-4109 L-4110 L-4125 L-4137 R-2408
1M070	TANK			
Area	HGT LEN PRO	Height Above Surface Level Length /Diameter Product Category	(PRO 6 or 12 or 13 or 18 or 27) and > .8 mm LEN (map scale)	L-4147
Point	HG LEN PRO	Height Above Surface Level Length /Diameter Product Category	(PRO 6 or 12 or 13 or 18 or 27) and <= .8 mm LEN (map scale)	L-4147
1 M0 8 0	WATER TOWER	æ		
Point	PRO	Length /Diameter Product Category	>= .8 un LEN (map scale) and PRO 027	L-4111 L-4137

CG CULTURE STORAGE

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

e Door	Feature	Attribut.	Inclusion Condition	Rule
1N010 1	RAILROAD TRACK	RACK		
rin•	C N C E E E E E E E E E E E E E E E E E	Existence Category Gauge Width Location /Origin Category Lane /Track Number Name Category Railroad Gauge Category Railroad Power Source Railroad /Road Categories	(EXS 6 or 28 or 5 or 7) and (RRC 0 or 2 or 3 or 8) and (RPS 1 or 3 or 4)	D-1702 L-4102 L-4103 L-41124 L-41125 L-41137 L-41128
1N050 F	RR SIDING	/RR SPUR		
Line	N N N N N N N N N N N N N N N N N N N	Length /Diameter Railroad Gauge Category Railroad Power Source Rail Siding /Spur Attribute	>= 2.5 mm LEN (map scale)	D-1702 R-9006
1NOSO B	RR YARD			
Area	S X S	Existence Category	EXS 28	D-1702 R-9006

CG CULTURE (1) TRANSPORTATION R/R (1N)

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

Rule		T-0402		N-0000		
Inclusion Condition		WTC 2		(EXS 5 or 28) and (USE 26 or 72) and (TUC 6 or 7)		
Attribute		Route Weatherability Category		Existence Category Location /Origin Category Lane /Track Number Road /Runway Surface Type	use Status Width of Travelled Way	Use Status Width of Travelled Way
Feature	CART TRACK	WIC	INTERCHANGE	E E E E E E E E E E E E E E E E E E E	WIW	WTW ROAD
FCO de	1 P 0 1 0	Line	1P020	Line		1 P 0 3 0

(11)

PRODUCT : CG CATEGORY : CULTURE (1) SUBCATEGORY: TRANSPORTATION /ROADS

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

dition		
Inclusion Condition		WTC 2
		ty Category
oute		Route Weatherability Category
Attribute	inued)	Rout.

L-4139 L-4140 R-2414 R-9002

Rule

CG CULTURE (1) TRANSPORTATION /ROADS (1P)

PRODUCT : CATEGORY : SUBCATEGORY: 1P030 ROAD (Continued)

WIC

1P0S0 Line

TRAIL

Feature

FCo de

T-0402

TABLE I. <u>Feature/Attribute category, inclusion conditions</u>, and product generation rules for city graphics - Continued.

PRODUCT CATEGORY SUBCATEGORY	: ORY:	CG CULTURE (1) ASSOCIATED TRANSPORTATION (1Q)		
O D D D D D D D D D D D D D D D D D D D	Feature	Attribute	Inclusion Condition	Rule
19010	AERIAL CA	CABLEWAY LINE /SKI LIFT LINE		
Line	LENUSE	Length /Diameter Use Status	>= 2.5 mm LEN (map scale) and USE 10	L-4125 L-4137 R-2464
19040	BRIDGE /O'	/overpass /viaduct		
Are a	BDDC LCC1 LCC3 LCC3 LCC3 LCC3 RCC RCC RCC RCC RCC RCC RCC RCC RCC	Bridge Design Category Bridge Opening Type Load Class Type 1 Load Class Type 1 Load Class Type 2 Load Class Type 3 Load Class Type 4 Length / Diameter Material Composition Characteristics Material Composition Characteristics Name Category Overhead Clearance Safe Overhead Clearance Transportation Use Category Width of Travelled Way Bridge Opening Type Material Composition Primary Transportation Use Category Width of Travelled Way	<pre>and >= 3.4 mm WTW (map scale) and < 1.4 mm WTW (map scale) and < 3.4 mm WTW (map scale)</pre>	L-4107 L-4125 L-41107 L-4137 L-4137
12060 Point	CONTROL	TOWER Transportation Use Category	(TUC 3 or 12 or 13)	L-4104
				L-4110 L-4125

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

Rule		4) L-4125		R-2413 R-2414		L-4125 L-4137 L-4139 T-0408
Inclusion Condition		(TUC 1 or 3 or 4)		All required		(TUC 3 or 4)
Attribute	SING	Ferry Type Name Category Transportation Use Category	ER	Name Category Use Status	RANCE - EXIT	Name Category Overhead Clearance Category Transportation Use Category Width
Acode	FERRY CROSSING	FER TUC	ROUTE MARKER	NAM	TUNNEL ENTRANCE	NAM OHC TUC WID
● E	12070	Cin e	10116	Point	19132	Point

CG CULTURE (1) ASSOCIATED TRANSPORTATION (1Q)

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

SUBCATEGORY:		COMMUNICATION /TRANSMISSION (1T)		
● pood	Feature	e Attribute	Inclusion Condition	Rule
11030	POWER T	POWER TRANSMISSION LINE		
Line	KVA NPL	Kilovolt Attribute Number of Parallel Lines	All required	TI
17050	STATION	STATION (COMMUNICATION)		-
A Pr	NEN NEN NEN NEN NEN	Identification Number Length /Diameter Radio Navigation /Communication Width	> .8 mm WID (map scale)	R - 2407 R - 2400 R - 2406 L - 4102 L - 4117 L - 4117
Point	IDN NST WID	Identification Number Length / Diameter Radio Navigation /Communication Width	(a.8 mm WID (map scale)	R - 24 0 7 1 2 2 4 1 2 3 2 4 1 2 4 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
17080	TOWER (COMMUNI	COMMUNICATION)		
Point	#su	Radio Navigation /Communication	(NST 12 or 13 or 15 or 16 or 33)	L-4125 L-4137

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

F CO d	Feature	Attribute	Inclusion Condition	Rule
10025	AIRCRAFT L	AIRCRAFT LANDING PAD		
Point	t AFT EXS NAM	Aircraft Facility Type Existence Category Name Category	(EXS 6 or 28) and AFT 2	L-4125 L-4137 L-4139
10060	10060 · APRON /HARDSTAND	DSTAND		
Area	S X X	Existence Category	(EXS 6 or 28)	N-0000
10160	RUNWAY			
Area	EXS	Existence Category	(EXS 6 or 28)	N-0000
10200	TAXIWAY			
Area	EXS	Existence Category	(EXS 6 or 28)	N-0000

CG CULTURE (1) AIRPORTS (1U)

PRODUCT : CATEGORY : C

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

Rule		T-0411		R-2316
Inclusion Condition		(SLT 6 or 8 or 10 or 11 or 13 or 14) and VDC 7		>n .5 mm WID (map scale)
Attribute	HORELINE	Accuracy Category Shoreline Type Category Vertical Datum Category	OPEN WATER (EXCEPT INLAND)	Width
Feature	COASTAL SHORELINE	ACC SEH VDC	OPEN WATER	WID
FCOCH	2A010	Line	2A040	Area

CG HYDROGRAPHY (2) COASTAL HYDRO (2A)

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

60 G	Feature Acode	Attribute	Inclusion Condition	Rule
28040	BREAKWATER			
Area	VRC	Vertical Reference Category Width	> 1.5 mm WID (map scale)	0000-N
Line	VRC	Vertical Reference Category Width	VRC 1 and <= 1.5 mm WID (map scale)	N-0000
28090	DRY DOCK			
Area	LOC	Location /Origin Category	LOC 7	N-0000
2B140	JETTY			
Area	VRC	Vertical Reference Category	VRC 1	N-0000
28190	PIER, WHARF			
Area	WID	Width	>= 1.5 nm WID (nap scale)	N-0000
Line	WID	Width	< 1.5 mm WID (map scale)	N-0000
28230	SEAWALL			
Line	WID	Width	All required	R-9010
2B240	SLIPWAY			
Line	VRC	Vertical Reference Category	VRC 1	N-0000

CG HYDROGRAPHY (2) PORTS AND HARBORS (2B)

PRODUCT : CATEGORY : B

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

	Inclusion Condition		CUR 4
N (2G)	71		
CATEGORY : HYDROGRAPHY (2) SUBCATEGORY: TIDE AND CURRENT INFORMATION (2G)	•	ARROW	Current Type Category
CATEGORY : HYDROGRAPHY (2) SUBCATEGORY: TIDE AND CURRENT	Attribute	2G010 CURRENT ARROW /FLOW ARROW	Current
EGORY: T	Fcode Feature FT Acode	CURRENT	Point CUR
SUBCAT	0 [14] 0 [14] 0 [14]	26010	Poi

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TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

FT.	Feature	Attribute	Inclusion Condition	Rule
2H010	AQUEDUCT			
cin•	AHC LOX NAM WID	Aqueduct Type Category Existence Category Location /Origin Category Name Category	LOC 3 and (EXS 6 or 28) and >= .5 mm WID (map scale)	L-4109 L-4125 L-4132 L-4137 R-2410 R-2418 R-2467
Point	t EXS LOC NAM TRA WID	Existence Category Location /Origin Category Name Category Traversability Attribute Width	(EXS 6 or 28) and Loc 3 and < .5 mm WID	L-4109 L-4125 L-4132 L-4137 L-4139 L-4140 R-2410
2H020	CANAL			
Are e e	EXS HYC NAM WID	Existence Category Hydrographic Category Name Category Width	(EXS 6 or 32) and >= .5 mm WID (map scale)	L-4109 L-4125 L-4132 L-4137 L-4139 L-4140 R-2410 R-2418
Lin.	BXS HYC NAM WID	Existence Category Hydrographic Category Name Category Width	(EXS 6 or 32) and < .5 mm WID (map scale)	L-41109 L-4125 L-4137 L-4133 L-4130 R-2410 R-2410

CG HYDROGRAPHY (2) INLAND WATER (2H)

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

000F	Feature Acode	Attibute	Inclusion Condition	Rule
2H030	DITCH			
Area	H LEN KID	Hydrographic Category Length /Diameter Width	>= 2.5 mm LEN (map scale) and >= .5 mm WID (map scale) and HYC 8 and HYC 8	L-4125 R-2410
Line	HYCLERY	Hydrographic Category Length ∕Diameter Width	>= 2.5 mm LEN (map scale) and < .5 mm WID (map scale) and HYC 8 and HYC 8	L-4125 R-2410
2H040	FILTRATION /AERATION	/AERATION BEDS		
Area	LEN WID	Length /Diameter Width	>= 5 BB WID (nap scale)	L-4125 L-4132 L-4137 R-2470
2H050	FISH HATCHERY	A.H.		
Area	MID	Length /Diameter Width	>= 5 mm WID (map scale)	L-4125 L-4132 L-4137 R-2470
2H060	FLUME			
Line	LEN	Length /Diameter Location /Origin Category	>= 2.5 mm LEN (map scale)	L-4125 R-2410
24070	FORD			
Line	LEN	Length /Diameter	Feature used only in connection with 1P030	L-4125

CG HYDROGRAPHY (2) INLAND WATER (2H)

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

P D O D L	Feature	Attribute	Inclusion Condition	Rule
2H075	INLAND SHORELIN	ELINE		
Line	ACC SLT	Accuracy Category Shoreline Type Category	ACC 1 and (SLT 10, 11, 13, 14, or 15) OR ACC 2 and (SLT 6, or 8)	T-0411
211080	LAKE /POND			
Area	HYC LEN NAM WSC ZVL	Hydrographic Category Length /Diameter Name Category Width Water Salinity Category Z Value	>= 1.0 mm WID (map scale) and (HYC 3 or 6 or 8)	L-4125 R-2470
28090	LAND SUBJECT	T TO INUNDATION		
Area	HOC LEN WID	Hydrographic Origin Category Length ∕Diameter Width	>= 5 mm WID (map scale)	L-4125 R-2470
2H110	PENSTOCK			
rine e	LOON	Length /Diameter Location /Origin Category	>= 1.5 mm LEN (map scale)	L-4137 T-0409 R-2461 R-2460 L-4125
2H130	RESERVOIR			
A 0 0	NEN NE	Existence Category Length /Diameter Name Category Width Z Value	>= 5 mm WID (map scale)	L-4125 R-2470

CG HYDROGRAPHY (2) INLAND WATER (2H)

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

Foode	Feature	• Attribute		•
:			THETTER CONDICTION	Rule
2H140	RIVER /STREAM	STREAM		
Area	HYC NAM WID	Hydrographic Category Name Category Width	(HYC 3 or 6 or 8) and > .5 mm WID (map scale)	R-2418 R-2467
Line	HYC NAM WID	Hydrographic Category Name Category Width	(HYC 3 or 6 or 8) and <= .5 mm WID (map scale)	T-0412 R-2418 R-2467
2H150	SALT EV	SALT EVAPORATOR		
Area	MID WID	Length /Diameter Width	>= 5 mm WID (map scale)	L-4125 R-2470
2H160	SABKHA			
Area	LEN	Length /Diameter Width	>= 5 mm WID (map scale)	R-2470 L-4125
2H170	SPRING	SPRING /WATER-HOLE		
Point	SCC	Hydrographic Category Spring /Well Characteristic Category	(HYC 6 or 8)	T-0414 L-4125

CG HYDROGRAPHY (2) INLAND WATER (2H)

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

	Rule	0000-N	N-0000	0000-82	N-0000	0000-M
	Inclusion Condition	LMC 1	(EXS 5 or 28) and (MCP 18 or 48) and >= 1.5 mm WID (map scale)	(EXS 5 or 28) and (MCP 18 or 48) and < 1.5 mm WID (map scale)	(EXS 5 or 28)	LMC 1
CG HYDROGRAPHY (2) MISCELLANEOUS INLAND WATER (21)	Attribute	Landmark Category	Existence Category Material Composition Primary Name Category Width	Existence Category Material Composition Primary Name Category Transportation Use Category Width	Existence Category Name Category	WATER INTAKE TOWER LMC Landmark Category
PRODUCT : CG CATEGORY : HYD SUBCATEGORY: MIS	Fcode Feature FT Acode	21010 CISTERN Point LMC	21020 DAM Area EXS MCP NAM WID	Line EXS MCP NAM TUC TUC	21030 LOCK Area EXS	21050 WATER INT Point LMC

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

	Inclusion Condition		<pre></pre>		ACC 1 and MCP 23	hary OR ACC 2
CG HYPSOGRAPHY (3) RELIEF PORTRAYAL (3A)	Attribute	LAND)	Hypsography Portrayal Category Material Composition Primary 2 Value	ATION	Accuracy Category Elevation Accuracy	Material Composition Primary
	Feature	CONTOUR (LAND)	HQC MCP ZVL	SPOT ELEVATION	: ACC ELA	MCP
PRODUCT : CATEGORY : SUBCATEGORY:	P P	3A010	Line	3A030	Point	

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

PRODUCT : CG CATEGORY : PHYSIOGRAPHY (4) SUBCATEGORY: EXPOSED SURFACE MATERIAL (4A)

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

FCode	Feature	Attribute	Inclusion Condition	Rule
48010	BLUFF /CLIFF,	F, ESCARPMENT		
Line	LEN	Length /Diameter	>= 1.5 mm LEN (map scale)	N-0000
48071	CUT LINE			
Line	LEN	Length /Diameter	># 1.5 mm LEN (map scale)	T-0410
48090	EMBANKMENT			
Area	efi Nam	Embankment /Fill Identifier Name Category	E 16.0	T-0410
Line	E L E N N P W V N C	Embankment /Fill Identifier Length /Diameter Name Category Vertical Reference Category	>= 1.5 mm LEN (map scale) and (EFI 1 or 2 or 4)	T-0410
48110	FAULT			
Line			No Attribute Required	N-0000
48135	ISLAND			
Area			All Required	N-0000
48155	RAVINE/GORGE/CANYON	E/CANYON		
Area			All reqired	N-0000
48170	SAND DUNES	/SAND HILLS		
A	LEN SSC WID	Length /Diameter Structure Shape Category Width	>= 5 mm WID (map scale) and SSC 026	R-2470 R-2410 L-4125 L-4137

CG PHYSIOGRAPHY (4) LANDFORMS (4B)

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

FC0de	Peature	Attribute	Inclusion Condition	Rule
5A010	CROPLAND (CULT	(CULTIVATED)		
Area	P P P P P P P P P P P P P P P P P P P	Farming Type Category Length /Diameter Vegetation Characteristics Width	and VEG 004 on WID (map scale) and VEC 003 and >= 5mm WID (map scale)	L-4125 L-4137 R-2470
5,030	NURSERY			
A	KEN	Length /Diameter Width	>м 5 mm WID (map scale)	L-4125 L-4137 R-2470
58040	ORCHARD /	ORCHARD /PLANTATION		
Area	LEN PRO WID	Length /Diameter Product Category Width	>н 5 mm WID (map scale)	L-4125 L-4137 R-2470
5A050	VINEYARD /HOPS	/но́рѕ		
A A A A	LEN	Length /Diameter Width	># 5 nn WID (map scale)	L-4125 L-4137 R-2470

CG VEGETATION (5) CROPLAND (5A)

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

Rule		L-4125 L-4137 R-2470		R-2485	R-2470	R-9010	L-4125	L-4137		
Inclusion Condition		>н 5 mm WID (жар scale)		V 1 mm WID (map scale)	and be 5 mm LEN (map scale)	and MLC 001	and VEG 19			
Attribute	200	Length /Diameter Width		Conspicuous Object Category	Density Measure (& Tree	/Canopy Cover)	Length /Diameter	Landmark Category	Vegetation Characteristics	Width
Feature	BAMBOO CANE	LENWID	TREES	000	DMT		LEN	LMC	020	WID
e pood	5C010	Area	50030	Area						

PRODUCT : CG CATEGORY : VEGETATION (5) SUBCATEGORY: WOODLAND (5C)

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

Rule	L-4125 L-4137 R-2470 T-0411	L-4125 L-4137 R-2470 T-0411
Inclusion Condition	>= 5 mm WID (map scale)	>= 5 mm WID (map scale)
Attribute	Length /Diameter Tidal /Non-Tidal Category Width	Length /Diameter Tidal /Non-Tidal Category Width
Feature	SWAMP LEN TID WID	MARSH LEN TID
FCOCO	5D030 Area	50040 Area

CG VEGETATION (5) WETLANDS (5D)

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

	Rule		E-4138 E-4138 E-4139 E-4139
S (TOPOGRAPHIC) (6A)	Inclusion Condition		(USE 16 or 23 or 26)
: CG : DEMARCATION (6) : BOUNDARIES /LIMITS /ZONES (TOPOGRAPHIC) (6A)	• Attribute	ADMINISTRATIVE BOUNDARY	Name 3 Name 4 Use Status
PRODUCT : C CATEGORY : D SUBCATEGORY: B	Foods Pature FT Acods	6A000 ADMINIS	Line NM3 NM4

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

Rule	R-2415 R-2416 R-2417

Inclusion Condition	(CPA 01 or 02)	
	T Control Point Attribute 2 Value	
Attribute	OINT Control Poin Z Value	
Feature	9B035 CONTROL POINT Point CPA Co	
日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日	9B035 Point	

CG GENERAL (9) CONTROL POINTS (9B)

TABLE I. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics - Continued.

e H	Acode	Attribute	oute			,	Inclusion Condition	Rule
90015	9D015 POINT OF CHANGE	CHANGE						
Point	Point PCI	Point	off Ch	e b u e	Point of Change Identifier		All required	L-4144
						*	END OF REPORT * * *	

(06)

CG GENERAL (9) MISCELLANEOUS (

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs.

CG ENVIRONS INSET CULTURE (1) EXTRACTION (1A)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

FCOG	Peature	Attribute	Inclusion Condition	Rule
18030 Q	QUARRY			
A A 6 8	EXS PRO WID WID	Existence Category Length /Diameter Product Category Width	(EXS 6 or 28) and > 5 mm WID (map scale)	L
Point	E E E E E E E E E E E E E E E E E E E	Existence Category Length /Diameter Product Category Width	(EXS 6 or 28) and <= 5 mm WID (map scale)	L-41109 L-141109 L-141111 L-1411111111111111111111111111
1A040 R: Point	RIG /SUPERSTRU EXS EX LMC La	fRUCTURE Existence Category Landmarķ Category	LMC 1	L-4111 L-4125 L-4137 T-0420
1A050 WI	WELL RELL RELL RELL RELL RELL RELL RELL		, ,	
		Hydrographic Category Name Category Product Category	and (HYC 2 or 3 or 6 or 8)	T-04137 L-4137 L-4140 L-4140 T-4147

CG ENVIRONS INSET CULTURE (1) EXTRACTION (1A)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

Rule		L-4137 B-2411 R-2470 R-2470 T-0482	L-4137 R-2411 R-2470 R-2482
Inclusion Condition		>= 5 mm WID (map scale) and (PRO 30, 32, 33, or 59)	># 5 BB WID (BBD SCAle)
Attribute	L SITE /WASTE PILE	Existence Category Length /Diameter Product Category	3 YARD /SCRAP YARD Existence Category Length /Diameter Width
Feature	DISPOSAL SITE	EX LEN PRO WID	WRECKING EXS LEN WID
0 F-1	18000	Are	1B010 Area

CG ENVIRONS INSET CULTURE (1)
DISPOSAL (18)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

Rule		L-4137 R-2470 R-9004			
Inclusion Condition		>= 5 mm WID (map scale)	•		
ode Attribute	SETTLING BASIN /SLUDGE POND	N Length /Diameter D Width			
Acode		A LEN WID			
F 1	10030	Are e			

CG ENVIRONS INSET CULTURE (1) PROCESSING INDUSTRY

PRODUCT : CATEGORY : SUBCATEGORY:

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

Inclusion Condition		> .6 mm WID (map scale)	<= .6 mm WID (map scale)
Attribute	SUBSTATION /TRANSFORMER YARD	Length /Diameter Width	Length /Diameter Width
Feature	SUBSTATION /	LEN	t LEN WID

Point

Area

10030

CG ENVIRONS INSET CULTURE (1) POWER GENERATION (1D)

PRODUCT : CATEGORY : SUBCATEGORY:

FCOGO

L-4137 R-2411 R-2470 R-2482

Rule

L-4137

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

FCOG	Fasture	Attribute	Inclusion Condition	Rule
17010	CHIMNEY ,	CHIMNEY /SMOKESTACK		
Point	HGT	Height Above Surface Level	>= 10 m HGT	L-4137
15020	CONVEYOR			
Line	r E S	Length /Diameter	>= .85 mm LEN (map scale)	R-2464
11030	COOLING TOWER	OWER		
Area	I E	Length /Diameter	> .8 BB LEN	N-0000
Point	Z E E	Length /Diameter	NZT nm 8. =>	R-0046
1F040	CRANE			
Point	CRA	Crane Attribute	All required	T-0812

CG ENVIRONS INSET
CULTURE (1)
ASSOCIATED INDUSTRIAL STRUCTURES (1F)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

•			
Inclusion Condition		LMC 1 and > .8 mm WID (map scale)	LMC 1 and <= .8 mm WID (map scale)
Attribute		Length /Diameter Landmark Category Name Category Width	Length /Diameter Landmark Category Name Category Width
Feature Acode	FORT	LEN LMC WID WID	LE NAMO WID
700 71	18050	Area	Point

R-2403 R-2408 R-2419 R-2462 R-2470

Rul.

CG ENVIRONS INSET CULTURE (1) INSTITUTIONAL /GOVERNMENTAL (1H)

PRODUCT : CATEGORY : SUBCATEGORY: R-2403 R-2408 R-2462

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

Rule		L-4137 R-2411 R-2482 R-2470 T-0420	N-0000
Inclusion Condition		>= 5 mm WID (map scale)	LMC 1
ode Attribute	FEED LOT /STOCKYARD /HOLDING PEN	<pre>SX Existence Category IN Length /Diameter D Width</pre>	WINDMILL /WINDMOTOR
Feature	FEED 1	EXS LEN WID	
FT.	1.1030	Area	1J050 Poin

CG ENVIRONS INSET CULTURE (1)
AGRICULTURAL (13)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Acode	Attribute	Inclusion Condition	Rule
1K030	AMUSEMENT PARK	PARK		
Are a	LEN MAN WID	Length /Diameter Name Category Width	>= 5 mm WID (map scale)	L-4125 L-4132 L-4133 L-4133 L-4139 R-2411 R+2482 L-4140
1K040	ATHLETIC F:	FIELD		
त १ १	LEN NAM WID	Length /Diameter Name Category Width	>= 1.5 mm WID (map scale)	L-4132 L-4133 L-4133 L-4133 L-4140 R-2411 R-2411 L-482
1K090	FAIRGROUNDS			
Area	LEN NAM WID	Length /Diameter Name Category Width	>= 5 nm WID (map scale)	L-4132 L-4133 L-4133 L-4139 L-4140 R-2411 R-2470 L-4125

PRODUCT : CG ENVIRONS INSET CATEGORY : CULTURE (1) SUBCATEGORY: RECREATIONAL (1K)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Feature	Attribute	Inclusion Condition	Rule
1K100	GOLF COURSE			
4 0 0	LEN NAM WID	Length /Diameter Name Category Width	>2 5 mm WID (map scale)	L-4132 L-4133 L-4133 L-4140 R-2411 R-2470 R-2482
1K110	GRANDSTAND			
A re b			No Attribute Required	L
1K115	OUTDOOR THEATRE	TRE /AMPITHEATRE		K-2482 L-4125
ଷ ଧ ୟ	NAM	Name Category	No Attributes Required	LL

CG ENVIRONS INSET CULTURE (1)
RECREATIONAL (1K)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

FF	Feature	Attribute	Inclusion Condition	Rule
1K120	PARK			
Are Are	N N N N N N N N N N N N N N N N N N N	Length /Diameter Name Category Width	V= 5 mm WID (map scale)	LL L LL L LL L L L L LL L L L L
1K130	RACE TRACK			
Line Line	NAN WID WID	Length /Diameter Name Category Width	>= 5 mm LEN (map scale) and >= 2.5 mm WID (map scale)	L-4 L-4 L-4 L-6 L-6 L-13 L-13 R-2 L-13 R-2 L-13 R-2 L-13 R-2 L-13 R-2 L-13 R-2 L-13 R-2 L-13 R-2 L-13 R-3 R-3 R-3 R-3 R-3 R-3 R-3 R-3 R-3 R-
1K150	SKI JUMP.			
Point	t LMC	Landmark Category	LMC 1	L-4125 R-2403 R-2408
1K160	STADIUM			
A . • a	LEN NAM WID	Length /Diameter Name Category Width	>= 5 mm WID (map scale)	LL

CG ENVIRONS INSET CULTURE (1)
RECREATIONAL (1K)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

F Code	Feature	Attribute	Inclusion Condition	Rule
1K170	SWIMMING POOL	000		
Area	LEN	Length /Diameter Width	>= 1.5 mm WID (map scale)	L-4125 L-4132
				L-4133
				R-2411
				R-2470
				R-2482
1K180	000			
Area	N N N	Length /Disseter	>= 5 mm WID (map scale)	L-4125
	O L			L-4132
	•			L-4133
				L-4137
				L-4139
				L-4140
				R-2411
				R-2470
				R-2482

PRODUCT : CG ENVIRONS INSET CATEGORY : CULTURE (1) SUBCATEGORY: RECREATIONAL (1K)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

F 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Feature	Attribute	Inclusion Condition	Rule
11015	BUILDING			
전 () ()	B B B B B B B B B B B B B B B B B B B	Building Function Category Diplomatic Building Structure Educational Building Type House of Worship Type Identification Number Length /Diameter Landmark Category Name Category Name Category Religious Denomination Width	IDN ANY and (BFC 1 or 2 or 3 or 4 or 5 or 6 or 14 or 15 or 20 or 12 or 12 or 13 or 15 or 26 or 27 or 28 or 29 or 30 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 51 or 52 or 53 or 60 or 61) and > .8 mm WID (map scale) and (HWT 2 or 3 or 4 or 6 or 9 or 11 or 16 or 20) and (HWT 2 or 3 or 4 or 6 or 9 or 11 or 16 or 20) and (BFC 1 or 2 or 3 or 4 or 5 or 29 or 14 or 15 or 20 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 20 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59 or 60 or 61) and AM ANY and LMC 1 and AM ANY and HWT 2 or 3 or 4 or 6 or 9 or 11 or and > .8 mm WID (map scale) and (HWT 2 or 3 or 4 or 6 or 9 or 11 or 16 or 20) and (HWT 2 or 3 or 4 or 6 or 9 or 11 or 16 or 20) and > .8 mm WID (map scale) and > .8 mm WID (map scale)	

CG ENVIRONS INSET CULTURE (1) MISCELLANEOUS FEATURES (1L)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

Acode At	Attribut.	ondition	Rule
(Con	ntinued)		
и обрания и при	Building Function Category Diplomatic Building Structure Educational Building Type Existence Category Height Above Surface Level House of Worship Type Identification Number Length / Diameter Landmark Category Name Category Religious Denomination and (HWT 2 or 3 B or 9 or 10 S or 61) Endmark Category Name Category Religious Denomination and (HWT 2 or 3 B or 9 or 10 ANY OR BFC 7 B or 15 or 20 B or 10 ANY OR BFC 7 And LMC 1 And ANY OR BFC 7 And (HWT 2 or 3 16 or 20) And (= .8 mm WID And NAM ANY ANY And NAM ANY ANY And NAM ANY ANY ANY ANY ANY ANY ANY ANY	(BFC 1 or 2 or 3 or 4 or 5 or 6 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 22 or 23 or 24 or 25 or 25 or 27 or 29 or 30 or 31 or 32 or 33 or 50 or 57 or 58 or 59 or 50 or 61 or 61) C= .8 mm WID (map scale) BFC 7 (HWT 2 or 3 or 4 or 6 or 9 or 11 or 16 or 20) C= .8 mw WID (map scale) BFC 1 or 2 or 3 or 4 or 6 or 9 or 11 or 16 or 20) C= .8 mw WID (map scale) C= .8 mw WID (map scale)	LL LL LL LL LL LL LL LL

(11)

CG ENVIRONS INSET CULTURE (1) MISCELLANEOUS FEATURES

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

0 PF	Feature	Attribute	Inclusion Condition	Rule
11.020 Ar•a	BUILT-UP AREA EXS LEN LEN NAM WID W	REA Existence Category Length /Diameter Name Category Width	>n 5 mm WID (map scale)	LC L
11.030 Ares	CEMETERY LEN NAM WID	Length /Diameter Name Category Religious Denomination Width	>= 5 mm WID (map scale) and (REL 1 or 2 or 4 or 3 or 0)	LL - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -

CG ENVIRONS INSET CULTURE (1) MISCELLANEOUS FEATURES (1L)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

	Rule		26, 27, E-4104 26, 27, E-4117 26, 27, R-2406 36, 37, R-2407 53, 54, R-2412 or 62) R-2457 17, 18, R-2487 16, 37, T-0418 36, 37, T-0418		R-2463		E-4109 E-4111 E-4137 E-4139 E-4139
	Inclusion Condition		EEKS 5 or 28) and (BFC 0, 1, 2, 3, 4, 5, 6, 7, 10, 11, 12, 13, 14, 15, 16, 119, 20, 21, 22, 23, 24, 25, 28, 29, 30, 31, 32, 33, 35, 38, 39, 40, 41, 50, 51, 52, 56, 57, 58, 59, 60, 61, 00, 11, 12, 13, 14, 50, 51, 52, 23, 24, 25, 2		>= 25 mm LEN (map scale) and LMC 1		All required
CG ENVIRONS INSET CULTURE (1) MISCELLANEOUS FEATURES (1L)	Attribute	outline	Aircraft Pacility Type Building Function Category Existence Category Identification Number Missile Site Type Power Plant Category		Length /Diameter Landmark Category		Name Category Structure Shape Category
	Feature	COMPLEX OU	4 8 8 1 8 8 4 8 9 9 8 4 9 9 9 8 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	FENCE	LEN	MONUMENT	N N N O N
PRODUCT : CATEGORY : SUBCATEGORY :	e F	11045	Ar oa	11070	Line	11130	Point

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

o de de	Feature	Attribute	Inclusion Condition	Rule
11135	NATIVE SET	SETTLEMENT		
€ • •	U N N N N N N N N N N N N N N N N N N N	Cultural Feature Density Length /Diameter Name Category Native Settlement Type Width	VE .5 BR WID (Rap scale)	RR RR L L L L L L L L L L L L L L L L L
11160	PIPELINE /PIPE	34I.		
Lin	LOCUPRO	Length /Diameter Location /Origin Category Product Category	(LOC 1 or 3 or 4) and (PRO 6 or 12 or 13 or 18 or 27 or 0) and >= 25 mm LEN (map scale)	R - 2461 R - 2460 L - 4137 R - 4147 R - 2410
1L180	PUMPING STA	STATION		
A 100	LEN WID	Length /Diameter Width	on . 8 mm WID (map scale)	L-4109 L-4110 L-4125 L-4137 R-2408 R-2411 R-2419

CG ENVIRONS INSET CULTURE (1) MISCELLANEOUS FEATURES (1L)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

PRODUCT : CATEGORY : SUBCATEGORY:	: CG ENVÍRC : CULTURE RY: MISCELLAN	VÍRONS INSET RE (1) LLANEOUS FEATURES (1L)		
FCode	Feature Acode	Attribute	Inclusion Condition	Rule
11,180 P	PUMPING STA	STATION (Continued)		
Point	LEN WID	Length /Diameter Width	< .8 mm WID (map scale)	E-4109 L-4110 L-4125 L-4137 R-2408 R-2419
11208 S	SHANTYTOWN			
A r c	CFD LEN WID	Cultural Feature Density Length /Diameter Width	>= .5 mm WID (map scale)	R - 2400 R - 2400 R - 2400 R - 24109 R - 24108 R - 24118 R - 2450 R - 2450 R - 2450 R - 2450 R - 2450
1L240 T	TOWER (NON~	- COMMUNICATION)		
Point	TTC	Tower Type Category	All required	L-4109 L-4111 L-4137
11260 W	WALL			
Line	LEN	Length /Diameter Landmark Category	>= 25 mm LEN (map scale) and LMC 1	R-2462 R-2463

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

000 000 000 000 000 000 000 000 000 00	Reature	Attribute	Inclusion Condition	Rule
1M010	DEPOT (STORAGE	aage)		
A r e	L L L L L L L L L L L L L L L L L L L	Length /Diameter Location /Origin Category Width	on 1.0 mm WID (map scale)	L-4125 R-2403 R-2408 R-2408 R-2411 R-2419 R-2482
1M020	GRAIN BIN			
Area	LEN LMC WID	Length /Diameter Landmark Category Width	> .8 mm WID (map scale)	R-2408 R-2408 R-2419 L-4110 T-4137 L-4109
Point	t LEN EMC WID	Length / Diameter Landmark Category Width	(man wid (man) scale)	R-2408 R-2458 L-4110 L-4137 T-6401 L-4109
1M030	GRAIN ELEVATOR	тов		
Area	H G L L E N L L E N L L M L D C M L D	Height Above Surface Level Length /Diameter Landmark Category Width	> .8 mm WID (map scale)	R-2408 R-2458 R-2458 L-4110 L-4137 T-14137 L-4109

CG ENVIRONS INSET CULTURE (1) STORAGE (1M)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

Rule		L-4147	L-4147		L-4111 L-4137
Inclusion Condition		(PRO 6 or 12 or 13 or 18 or 27) and > .8 mm LEN (map scale)	(PRO 6 or 12 or 13 or 18 or 27) and $\langle m , 8 \text{ mm LEW (map scale)} \rangle$		>s .8 mm LEN (map scale) and PRO 027
Attribute		Length /Diameter Product Category	Height Above Surface Level Length /Diameter Product Category		Length /Diameter Product Category
Feature	TANK	red Pro	HGT PRO	WATER TOWER	PRO
# T # T	1M070	Агеа	Point	1M080	Point

CG ENVIRONS INSET CULTURE (1) STORAGE (1M)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

0 년 전 원 년	Feature	Attribute	Inclusion Condition	Rule
1 NO 10	RAILROAD TRACK	TRACK		
o in	E E E E E E E E E E E E E E E E E E E	Existence Category Gauge Width Location /Origin Category Lane /Track Number Name Category Railroad Gauge Category Railroad Power Source Railroad /Road Categories	(EXS 6 or 28 or 5 or 7) and (RRC 0 or 2 or 3 or 8) and (RPS 1 or 3 or 4)	D-1702 L-44105 L-44109 L-44124 L-44125 L-44137 L-44140 L-44140
1N050 Line	RR SIDING /RR LEN LO RGC RG RPS RG RSA RG	/RR SPUR Length /Diameter Railroad Gauge Category Railroad Power Source Rail Siding /Spur Attribute	># 2.5 mm LEN (map scale)	D-1702 R-9006
1NO80 Area	RR YARD EXS	Existence Category	EXS 28	D-1702 R-9006

(1N)

CG ENVIRONS INSET CULTURE (1)
TRANSPORTATION R/R

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

			I	product genera	atic	on rules for city graphics chyllyng
Rule		T-0402		M - 0 0 0 0		L L L L L L L L L L L L L L L L L L L
Inclusion Condition		WTC 2		(EXS 5 or 28) and (USE 26 or 72) and (TUC 6 or 7)		and (USE 26 or 72)
Attribute		Route Weatherability Category		Existence Category Location /Origin Category Lane /Track Number Road /Runway Surface Type Transportation Use Category Use Status Width of Travelled Way		Existence Category Lane / Track Number Median Category Name Category Road /Runway Surface Type Transportation Use Category Use Status Route Weatherability Category Width of Travelled Way
Feature	CART TRACK	WTC	INTERCHANGE	E E E E E E E E E E E E E E E E E E E	ROAD	S S S S S S S S S S S S S S S S S S S
0 E	17010	Line	12020	i i n	1 P 0 3 0	: : :

CG CULTURE (1) TRANSPORTATION /ROADS (1P)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

	0044	2
_	W 44 44 0	0
•	4440	4
⊣I	4410	0
교	1111	1
اعت	2266	- 1

Inclusion Condition			ر ا ا
Attribute	inued)		
Feature	ROAD (Continued)		OSO TRAIL
00 00 PT	10030	Line	12050

CG ENVIRONS INSET CULTURE (1)
TRANSPORTATION /ROADS (1P)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

e Pool	Feature Acode	Attribute	Inclusion Condition	Rule
10010	AERIAL C	AERIAL CABLEWAY LINE /SKI LIFT LINE		
Line	N N N N N N N N N N N N N N N N N N N	Length /Diameter Use Status	>= 2.5 mm LEN (map scale) and USE 1	L-4125 L-4137 R-2464
19040	BRIDGE /	/OVERPASS /VIADUCT		
A K P B B B B B B B B B B B B B B B B B B	B WHONE MEDICAL BENEVITY BENEV	Bridge Design Category Bridge Opening Type Load Class Type 1 Load Class Type 2 Load Class Type 3 Load Class Type 4 Length / Diameter Material Composition Characteristics Material Composition Characteristics Material Composition Transportation Use Category Safe Horizontal Clearance Transportation Use Category Width of Travelled Way	and >= 3.4 mm WTW (map scale) and >= 3.4 mm WTW (map scale)	L-4107 L-4125 L-4137
		Length / Diameter Material Composition Primary Transportation Use Category Width of Travelled Way	and (= 3.4 nm WTW (map scale)	L-1125
1 <u>0</u> 060 Point	CONTROL	TOWER Transportation Use Category	(fuc 3 or 12 or 13)	L-4104 L-4110 L-4125

CG ENVIRONS INSET CULTURE (1) ASSOCIATED TRANSPORTATION (1Q)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

Rule		L-4125		R-2413 R-2414		L-4125 L-4137 L-4139 T-0408		T-0408
Inclusion Condition		(TUC 1 or 3 or 4)		All required		(TUC 1 or 3 or 4)		(TUC 3 or 4)
Attribute	OSSING	Ferry Type Name Category Transportation Use Category	RKER	Name Category Use Status		Name Category Transportation Use Category Width	ENTRANCE - EXIT	Name Category Transportation Use Category Width
Feature	FERRY CROSSING	FER	ROUTE MARKER	NAM USE	TUNNEL	NAM TUC WID	TUNNEL EN	NAM HUC WID
Frode	19070	Line	10116	Point	10131	Line	10132	Point

CG ENVIRONS INSET CULTURE (1) ASSOCIATED TRANSPORTATION (1Q)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

0 E4	Feature	Attribute	Inclusion Condition	Rule
17030	POWER TRANSMIS	ANSMISSION LINE		
i i e	KVA NPL	Kilovolt Attribute Number of Parallel Lines	All required	L-4108 T-0403 L-4125 T-0405 T-0406 R-2410
11050	STATION (COMMU	(COMMUNICATION)		
Area	L I I I I I I I I I I I I I I I I I I I	Identification Number Length / Diameter Radio Navigation /Communication Width	V . S BB WID (BAD SCALO)	R-2407 R-2406 R-2408 R-24108 L-4102 L-41127
Point	L L D N N S T N N S T N N S T N N S T N N S T N N S T N N S T N N S T N N S T N N N N	Identification Number Length / Diameter Radio Navigation / Communication Width	(NST 12 or 13 or 15 or 16 or 33) and <= .8 mm WID (map scale)	R-2406 R-2406 R-2408 L-4101 L-4117 L-4117
1T080	TOWER (COMMUNI	OMMUNICATION)		
Point	N S T	Radio Navigation /Communication	(NST 12 or 13 or 15 or 16 or 33)	L-4125 L-4137

(1T)

CG ENVIRONS INSET CULTURE (1) COMMUNICATION /TRANSMISSION

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

Rule		N-000		N-0000
Inclusion Condition		(EXS 6 or 28) and AFT 2		(EXS 6 or 28 or 5 or 7)
Attribute	LANDING PAD	Aircraft Facility Type Existence Category Name Category		Existence Category
Acode	10025 AIRCRAFT LANDI	A R R R R R R R R R R R R R R R R R R R	RUNWAY	EXS
• H	10025	Point	10160	Area

CG ENVIRONS INSET CULTURE (1) AIRPORTS (10)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

0 D	Feature	Attribute	Inclusion Condition	Rule
28010	COASTAL SHORELINE	RELINE		
Line	A SET VDC	Accuracy Category Shoreline Type Category Vertical Datum Category	(SLT 6 or 8 or 10 or 11 or 13 or 14) and VDC 7	T-0411
2A040	OPEN WATER	(EXCEPT INLAND)		
Area	WİD	Width	>= .5 mm WID (map scale)	R-2316

CG ENVIRONS INSET HYDROGRAPHY (2) COASTAL HYDRO (2A)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

O C C C C C C C C C C C C C C C C C C C	Feature	Attribute	Inclusion Condition	Rule
2B040	BREAKWATER			
Line	VRC	Vertical Reference Category	VRC 1	M-0000
2B140	JETTY			
Line	VRC	Vertical Reference Category	VRC 1	M-0000
2B190	PIER, WHARF			
Area	NAM WID	Name Category Width	ьк 1.5 пв WID (пар scale)	N-0000
Li n o	NAM	Name Category Width	< 1.5 mm WID (map scale)	N-0000
28230	SEAWALL			
Line	WID	Width	All required	R-9010

(2B)

CG ENVIRONS INSET HYDROGRAPHY (2) PORTS AND HARBORS

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

	Inclusion Condition		CUR 4
CG ENVIRONS INSET HYDROGRAPHY (2) TIDE AND CURRENT INFORMATION (2G)	Attribute	CURRENT ARROW /FLOW ARROW	Current Type Category
PRODUCT : CG CATEGORY : HY SUBCATEGORY: TI	FCode Feature FT Acode	2G010 CURRENT	Point CUR

Rule

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

# # # O U #	Feature	Attribute	Inclusion Condition	Rule
2H010 A	AQUEDUCT			
Line	A E E E	Aqueduct Type Category Existence Category	LOC 3 and (EXS 6 or 28) and (EXS 6 or 28)	L-4109 L-4125 L-4132
	Wid	Width	Loc 1	L-4137
			and ATC 1	R-2418
				B-2467
-	¢		(EXS 6 or 28)	L-4109
Foluc	9 6	Location /Origin Category	, _	L-4125
) #	Tracersability Attribute		L-4132
	0 L M	Width		L-4137
				R-2410
2H020 C	CANAL			
Line	EXS	Existence Category	(EXS 6 or 32)	L-4109
	HYC	Hydrographic Category		L-4125
	NAM	Name Category		T-4137
				L-4139
				T-4140
				017710
				8-2418
				R-2467
		,		
2H030 D	DITCH			
Line	HYCLEN	Hydrographic Category Length /Diameter	>= 2.5 mm LEN (map scale) and (HYC 08 or 06)	L-4125 R-2410
	i i			

CG ENVIRONS INSET HYDROGRAPHY (2) INLAND WATER (2H)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

	Rule		L-4109 L-4125 L-4137	R-2410 R-2470		L-4125 L-4132 L-4137	R-2470		L-4125 R-2410		L-4125		T-0411		L-4125 R-2470
	Inclusion Condition		>= 5 mm WID (map scale)			>= 5 mm WID (map scale)			>= 2.5 mm LEN (map scale)		Feature used only in connection with (IPO30) roads		ACC 1 and (SLT 10, 11, 13, 14, or 15) OR ACC 2 and (SLT 6 or 8)		and (HYC 3 or 6 or 8)
: CG ENVIRONS INSET : HYDROGRAPHY (2) RY: INLAND WATER (2H)	Feature Acode Attribute	FILTRATION /AERATION BEDS	LEN Length /Diameter WID Width		FISH HATCHERY	LEN Length /Diameter WID Width		FLUME	LEN Length /Diameter LOC Location /Origin Category	PORD	LEN Length /Diameter	INLAND SHORELINE	ACC Accuracy Category SLT Shoreline Type Category	LAKE /POND	HYC Hydrographic Category LEN Length / Diameter NAM Name Category WID Width WSC Water Salinity Category ZVL Z Value
PRODUCT CATEGORY SUBCATEGORY	P C O G	2H040 F.I	Area		2H050 FI	Area		2H060 FL	Line	2H070 FO	Lin.	2H075 IN	Line	2H080 LA	₩ •

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

P C C C C C C C C C C C C C C C C C C C	Feature	Attribute	Inclusion Condition	Rule
28090	LAND SUBJECT	TT TO INUNDATION		
Area	HOCLEN	Hydrographic Origin Category Length /Diameter Width	>= 5 mm WID (map scale)	L-4125 R-2470
2H110	PENSTOCK			
Line	LOC	Length /Diameter Location /Origin Category	on 1.5 nm LEN (nap scale)	L-4137 T-0409 R-2461 R-2460 L-4125
2H130	RESERVOIR			
Area	EXS NAN WID ZVL	Existence Category Length /Diameter Name Category Width Z Value	>= 5 mm WID (map scale)	L-4125 R-2470
2H140	RIVER /STREAM	АМ		
Area	HYC NAM WID	Hydrographic Category Name Category Width	(HYC 3 or 6 or 8) and > .5 mm WID (map scale)	R-2418 R-2467
Line	HYC NAM MID	Hydrographic Category Name Category Width	(HYC 3 or 6 or 8) and <= .5 mm WID (map scale)	T-0412 R-2418 R-2467
2H150	SALT EVAPORATOR	ATOR		
Area	LEN	Length /Diameter Width	>= 5 min WID (map scale)	L-4125 R-2470

CG ENVIRONS INSET HYDROGRAPHY (2) INLAND WATER (2H)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

Rule		L-4125 R-2470		T-0414 L-4125
Inclusion Condition		>= 5 mm WID (map scale)		(HYC 6 or 8)
Attribute		Length /Diameter Width	WATER-HOLE	Hydrographic Category Spring /Well Characteristic Category
Acode	SABKHA	LEN	SPRING /WATER-	SCC
	2H160	Area	2H170	Point

CG ENVIRONS INSET HYDROGRAPHY (2) INLAND WATER (2H)

PRODUCT : ECATEGORY : E

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

	Rule		N-0000		N-0000	N-0000		N-0000		N-0000
	Inclusion Condition		LMC 1		(EXS 5 or 28) and (MCP 18 or 48) and >= 1.5 mm WID (map scale)	(EXS 5 or 28) and (MCP 18 or 48) and (1.5 mm WID (map scale)		(EXS 5 or 28)		LMC 1
CG ENVIRONS INSET HYDROGRAPHY (2) MISCELLANEOUS INLAND WATER (21)	Attribute		Landmark Category		Existence Category Material Composition Primary Name Category Width	Existence Category Material Composition Primary Name Category Transportation Use Category Width		Existence Category Name Category	WATER INTAKE TOWER	Landmark Category
	Feature	CISTERN	LMC	DAM	EXS MCP WID	M H H H H H H H H H H H H H H H H H H H	LOCK	EXS	WATER INT	LMC
PRODUCT : CATEGORY : SUBCATEGORY:	000 FF	21010	Point	21020	Area	Line	21030	Are	21050	Point

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

• D G G	Feature	<u>Attribute</u>	Inclusion Condition	Rule
3A010	CONTOUR (LAND)	(LAND)		
Line	HQC MCP ZVL	Hypsography Portrayal Category Material Composition Primary 2 Value	(HQC 5 or 6) and MCP 98	R-2415 R-2416 R-2417
38030	SPOT ELEVATION	ATION		
Point	T BULA CO MC V V V V V V V V V V V V V V V V V V	Accuracy Category Elevation Accuracy Material Composition Primary 2 Value	ACC 1 And MCP 23 OR ACC 2 And ELA 2 And MCP 23	R-2415 R-2416 R-2417

(3A)

CG ENVIRONS INSET HYPSOGRAPHY (3) RELIEF PORTRAYAL

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

	Feature Acode	Attribute	Inclusion Condition	Rule
4A010 Area	GROUND SURFAC LEN L MCP M WID W	FACE Length /Diameter Material Composition Primary Width	>= 5 mm WID (map scale)	L-4125 L-4137 R-2410 R-2470
4A020 Area	SALT PAN LEN WID	Length /Diameter Width	>≡ 5 mm WID (map scale)	R-2410 R-2470

CG ENVIRONS INSET
PHYSIOGRAPHY (4)
EXPOSED SURFACE MATERIAL (4A)

PRODUCT : CATEGORY : I

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

F 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Feature	Attribute	Inclusion Condition	Rule
48010	BLUFF /CLIF	BLUFF /CLIFF, ESCARPMENT		
Line	NET	Length /Diameter	Ve 1.5 BB LEN (Bay scale)	0000-M
4B071	CUT LINE			
Line	LEN	Length /Diameter	>= 1.5 mm LEN (map scale)	T-0410
48090	EMBANKMENT			
Area	ef i Nam	Embankment /Fill Identifier Name Category	BFI 3	T-0410
Line	E E E E E E E E E E E E E E E E E E E	Embankment /Fill Identifier Length./Diameter Name Category Vertical Reference Category	>= 1.5 mm LEN (map scale) and (EFI 1 or 2 or 4)	T-0410
48110	FAULT			
Line			No Attribute Required	N-0000
48135	ISLAND			
Area			All Required	N-0000
4B155	RAVINE/GORGE/CANYON	E/CANYON		
Area	NAM	Name Category	All required	N-0000
4B170	SAND DUNES	/SAND HILLS		
Area	LES C TID	Length /Diameter Structure Shape Category Width	>= 5 mm WID (map scale)	L-4125 L-4137 R-2410 R-2470

CG ENVIRONS INSET PHYSIOGRAPHY (4) LANDFORMS (4B)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

Rule		L-4125 L-4137 R-2470		L-4125 L-4137 R-2470		L-4125 L-4137 R-2470		L-4125 L-4137 R-2470
Inclusion Condition		and VEG 004 OR FTC 003 and >= 5mm WID (map scale)		>= 5 nm WID (map scale)		>н 5 вв WID (пар scale)		>≡ 5 mm WID (map scale)
Attribute	CROPLAND (CULTIVATED)	Farming Type Category Length /Diameter Vegetation Characteristics Width		Length /Diameter Width	ORCHARD /PLANTATION	Length /Diameter Product Category Width	/HOPS	Length /Diameter Width
Acode	CROPLAND	L L L L L L L L L L L L L L L L L L L	NURSERY	LEN	ORCHARD /I	A P L T D D	VINEYARD /HOPS	LEN WID
	58010	4 •	5A030	Area	58040	Ar.	58050	Area

CG ENVIRONS INSET VEGETATION (5) CROPLAND (5A)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

Inclusion Condition Rule	>= 5 mm WID (map scale) L-4125 L-4137 R-2470	>= .4 mm WID (map scale) R-2485 and >= 5 mm LEN (map scale) R-2470 and VEG 19 L-4125 L-4137
Feature Acode Attribute	BAMBOO CANE LEN Length /Diameter WID Width	TREES COC Conspicuous Object Category DMT Density Measure (% Tree /Canopy Cover) LEN Length /Diameter LMC Landmark Category VEG Vedetation Characteristics
⊕ Po ∪ A	5C010 Area	5 C O 3 O Ar • a

PRODUCT: CG ENVIRONS'INSET CATEGORY: VEGETATION (5) SUBCATEGORY: WOODLAND (5C)

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

000	Feature	Attribute	Inclusion Condition	Rule
SD030 Area	SWAMP LEN TID WID	Length /Diameter Tidal /Non-Tidal Category Width	>¤ 5 mm WID (map scale)	L-4125 L-4137 R-2470 T-0411
5D040 Area	MARSH LEN TID WID	Length /Diameter Tidal /Non-Tidal Category Width	>= 5 mm WID (map scale)	L-4125 L-4137 R-2470 T-0411

CG ENVIRONS INSET VEGETATION (5) WETLANDS (5D)

Feature/Attribute category, inclusion conditions, and TABLE II. product generation rules for city graphics environs - Continued.

Inclusion Condition	•	(USE 16 or 23 or 26)
Attribute	ADMINISTRATIVE BOUNDARY	Name 3 Name 4 Use Status
Feature	ADMINISTRA!	NM3 NM4 USE

CG ENVIRONS INSET
DEMARCATION (6)
BOUNDARIES /LIMITS /ZONES (TOPOGRAPHIC) (6A)

PRODUCT : CATEGORY : SUBCATEGORY:

Feature

Fcode

Line

6A000

L-4131 L-4138 L-4139 L-4134 L-4134

Ru19

TABLE II. Feature/Attribute category, inclusion conditions, and product generation rules for city graphics environs - Continued.

Inclusion Condition	(CPA 01 or 02)

R-2415 R-2416 R-2417

Rule



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Army - CDRUSAETL-CEETL-TC-SA; CDR25THINFDIV-APVG-DS; HQWESTCOM-APIN-MCG USAATCAAS-ASQ-AS-AI;USA-FSTC-CB1

Navy - HQFMFEUR-USNAVACTS-UK; CINCUSNAEUR-N39, ECJ2-T; CINCUSPAC-J37;

Marine Corps - CGFMFLANT-AC/S;
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DMA - DMAAC-DAP; DMACSC-LANT; DMAHTC-IAGS, LOU-LUA, LOU-VRM, SXO-SXM

DMS - DMS-MTM

Other - Canada: HQND-MCE

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