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FM 21-30

WAR DEPARTMENT BASIC FIELD MANUAL

CONVENTIONAL SIGNS, MILITARY SYMBOLS, AND ABBREVIATIONS

WAR DEPARTMENT + OCTOBER 1943

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FM 21-30

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MILITARY SYMBOLS,
AND ABBREVIATIONS

This manual supersedes FM 21-30, 26 November 1941,
including C 1, 9 May 1942, and C 2, 27 July 1942.



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FM 21-30, Conventional Signs, Military Symbols, and Abbreviations, is published for the information and guidance of all concerned.

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BY ORDER OF THE SECRETARY OF WAR:

G. C. MARSHALL,
Chief of Staff.

OFFICIAL:

J. A. ULIO,
*Major General,
The Adjutant General.*

DISTRIBUTION:

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(For explanation of symbols see FM 21-6.)

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PART I

GENERAL MAPPING

CHAPTER 1 · GENERAL

1. PURPOSE. This manual gives in convenient form the abbreviations and general symbols which have been authorized for military use. It contains technical symbols and instructions for the map maker, and military symbols for the use of those in the military service. Persons engaged in the preparation of maps should also be guided by AR 300-15, TM 5-230, and Bulletin 788, Topographical Instructions of the United States Geological Survey. Those whose duties require them to read foreign topographic and military maps should consult FM 30-22.

Symbols other than those shown herein may be used provided they do not conflict with any authorized symbols and are explained in a legend.

2. SCOPE. Part I of this manual deals with general topographic, hydrographic, and air navigational symbols and abbreviations prescribed for use on all United States maps. Part II contains symbols of a military nature authorized by the War Department. Part III gives authorized military abbreviations.

3. SIZE. a. In general, topographical symbols resemble the objects which they represent. The symbols vary in

size with the scale of the map. On small-scale maps, the symbols are reduced to their most elementary form and do not conform to scale. As the scale is increased, the symbols assume more nearly the shape and scaled size of the object represented.

b. The symbols in this book are generally of a size suitable for use on a map of scale 1:62,500, unless otherwise noted.

4. COLOR. The symbols are shown in appropriate color for a four-color map. When less than four colors are used, the colors in the symbols shown in chapters 2, 3, and 5 which are not used will be executed in black ink.

5. LETTERING. Civil divisions are indicated by *VERTICAL ROMAN* type; natural water features by *SLANT ROMAN* type, or italic; natural land features by *VERTICAL GOTHIC* type; and works of man by *SLANT GOTHIC* type. On hastily prepared military maps, the lettering may vary considerably from these standards.

6. MARGINAL DATA. The data shown on chart 1 are given, where practicable, in the margins of all maps, photomaps, or aerial photographs, and usually in the places indicated by the encircled figures. On military maps, overlays, and field sketches, only essential information concerning the kind of map, orientation, date of preparation, source, and scale are shown, and then not necessarily in the margins. For detailed information on marking aerial photographs see FM 30-21.

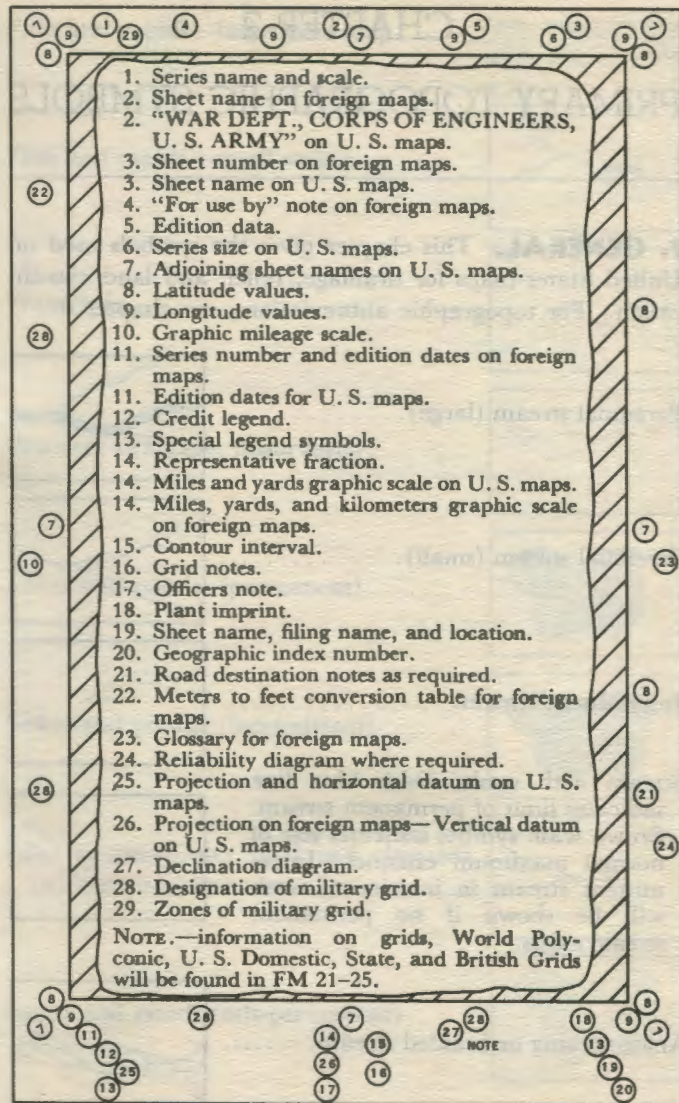


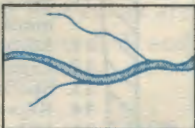
Chart 1.—Marginal data for maps, photomaps, and aerial photographs.

CHAPTER 2

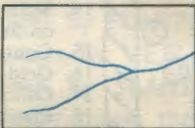
PRIMARY TOPOGRAPHIC SYMBOLS

7. GENERAL. This chapter gives the symbols used on United States maps for drainage, relief, and land classification. For topographic abbreviations, see chapter 6.

Perennial stream (large)



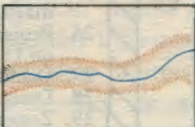
Perennial stream (small)



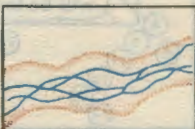
Intermittent stream



Stream with wash. Dark blue line indicates limit of permanent stream. Brown wash symbol indicates size of normal maximum channel. Intermittent stream in interior of wash will be shown if no permanent stream exists.



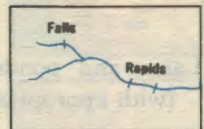
Anastomosing or braided stream



Falls and rapids—large scale map



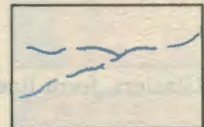
Falls and rapids—small scale map



Waterhole



Probable drainage, unsurveyed



Lakes and ponds: (permanent)



Lakes and ponds: (intermittent)



Lake or pond (dry bed) and claypans (with appropriate text)



Lakes and ponds (salt-permanent)



Chart 2.—Drainage.

Chart 2.—Drainage—Continued.

Lakes and ponds (salt-intermittent)



Lakes and ponds (salt-dry) (salt pans)
(with appropriate text)



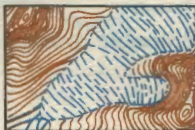
Spring



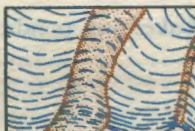
Wells and water tanks



Glaciers, form lines showing flow



Glacial surface moraine



Snow field



Chart 2.—Drainage—Continued.

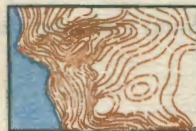
Contours (blue if under water)



Contours (approximate only)



Form lines (no definite interval)



Hachures



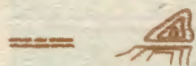
Depression contours



Cuts



Fills (Where high railroad or highway embankments occur, the use of hachures to represent the bank or grade is recommended instead of extensive use of depression contours covering large areas of the sheet.)



Mine dump (ore)

Tailings



Chart 3.—Relief.






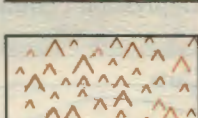
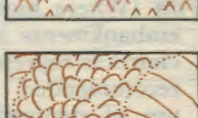
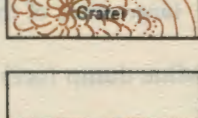
| | | |
|--------|--|--|
| Bluffs | { Rocky (or use contours) |  |
| | { Other than rocky (or use contours) |  |
| | Sand and sand dunes |  |
| | Washes |  |
| | Gravel |  |
| | Rocky land |  |
| | Lava |  |
| | Moraine, or esker |  |

Chart 3.—Relief—Continued.

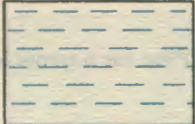

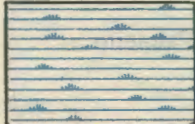
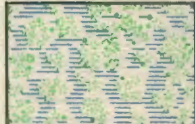




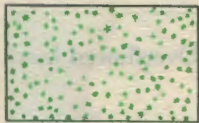
| | |
|--|---|
| Overflowed land |  |
| Marsh (if peat bog add appropriate text) |  |
| Salt marsh |  |
| Cypress swamp |  |
| Woodland (or as shown below) |  |
| Woodland (or broadleaved trees) |  |
| Logged-off or burned-off area |  |
| Dense woods or jungle growth |  |

Chart 4.—Land classification.

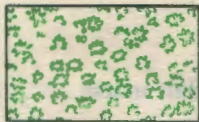
Pine (or narrow leaved trees)



Palm



Palmetto



Mangrove



Bamboo



Cactus



Banana



Orchard



or

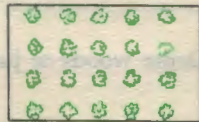
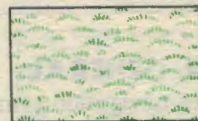


Chart 4.—Land classification—Continued.

Vineyard



Grassland in general



Tall tropical grass



Cultivated fields in general (Scale 1:31,680 and larger)



Cotton



Rice field



Sugarcane



Corn



Chart 4.—Land classification—Continued.





CHAPTER 3

HYDROGRAPHY

8. GENERAL. This chapter gives hydrographic and aids to navigation symbols used on United States maps. These symbols are approved by the United States Coast and Geodetic Survey. For hydrographic abbreviations, see chapter 6.

Shore lines {
 Surveyed
 Unsurveyed

Shores (high and low water lines and areas between)

| | |
|-------------------|---|
| In general |  |
| Rocky ledges .. |  |
| Coral reefs |  |
| Gravel and rocks |  |

Shores (high and low water lines and areas between)—Con.

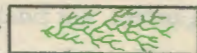
Mud.....



Tidal flats.....



Kelp or eel grass.....



Ice limits-shelf ice.....



Rock under water..... +

Rock awash (at any stage of the tide)..... *

Breakers along shore.....



Fishing stakes.....



Fish weir.....



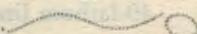
Salt evaporator.....



Overfalls and tide rips.....



Limiting danger line.....



Whirlpools and eddies.....



Chart 5.—Hydrography, dangers, obstructions.

Chart 5.—Hydrography, dangers, obstructions—Continued.





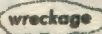








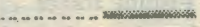
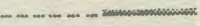
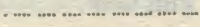
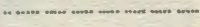
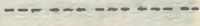
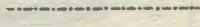
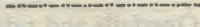
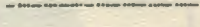

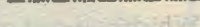

| | | |
|--|---|---|
| Wreck (any portion of the hull or superstructure above low water)..... |  | |
| Sunken wreck (dangerous to surface navigation)..... |  | |
| Sunken wreck (not dangerous to surface navigation nor those over which the depth exceeds 10 fathoms).... |  | |
| Foul ground..... |  | |
| Number of sunken wrecks..... |  | |
| Current, not tidal, velocity 2 knots..... |  | |
| (Special usage)..... |  | |
| Tidal currents | Flood, 1½ knots..... |  |
| | Ebb, 1 knot..... |  |
| | Flood, second hour..... |  |
| | Ebb, third hour..... |  |
| No bottom at 50 fathoms..... |  | |
| Depth curves: | | |
| 1-fathom or 6-foot line..... |  | |
| 2-fathom or 12-foot line..... |  | |
| 3-fathom or 18-foot line..... |  | |
| 4-fathom line..... |  | |
| 5-fathom line..... |  | |
| 6-fathom line..... |  | |
| 10-fathom line..... |  | |
| 20-fathom line..... |  | |
| 30-fathom line..... |  | |
| 40-fathom line..... |  | |
| 50-fathom line..... |  | |
| 100-fathom line..... |  | |

Chart 5.—Hydrography, dangers, obstructions—Continued.






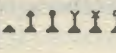







| | | |
|---|--|---|
| Lifesaving station (in general)..... |  | L.S.S. |
| Lifesaving station (Coast Guard)..... |  | C.G. 165 |
| Lighthouse..... |  | |
| Lighthouse on small-scale chart..... |  | (light sectors shown by dotted lines) |
| Light vessels showing number of mast lights..... |  | |
| Beacons (sectors shown by dotted lines) |  | Lighted..... Not lighted (sample of distinctive top marks) |
| | | |
| Buoy of any kind (or red buoy)..... |  | |
| Black..... |  | |
| Striped horizontally (in general)..... |  | |
| Striped horizontally (red and black)..... |  | |
| Striped vertically..... |  | |
| Checkered..... |  | |
| Buoys |  | Top marks used with any buoy symbols |
| Perch and square..... | | |
| Perch and ball..... | | |
| Whistling (or use first six symbols with word "whistling")..... | | |
| Bell (or use first six symbols with word "bell")..... | | |
| Lighted..... | | |

Chart 6.—Aids to navigation.




| | |
|--|---|
| Radio station | R.S.⊙ |
| Radio direction-finder station (radio compass station) R.C.⊙ | |
| Radio tower | R.T.⊙ |
| Radio beacon | R.Bn.⊙ |
| Pilot station | ⊙ PIL. STA. |
| Weather Bureau signal station | ⊙ W. B. SIG. STA. |
| Water gage | † |
| Anchorage { | ↓ |
| | |
| Mooring | ⇄ |
| Range or bearing line | ----- |
| Track line | ————— |
| Drydock |  |
| Floating drydock |  |
| Patent slip |  |
| Leader cable | ===== |
| Dolphin | + |
| Anchorage prohibited | <div style="border: 1px solid black; padding: 2px; display: inline-block;">Anchorage prohibited</div> |

Chart 6.—Aids to navigation—Continued.

CHAPTER 4 AERONAUTICAL CHART SYMBOLS

(To be reproduced in magenta)

9. GENERAL. The conventional signs for use on aeronautical charts differ from those used on topographic maps as follows:

- a. All symbols are larger and more striking to the eye.
- b. Those features on the ground which are easily identified from high altitudes are emphasized on aeronautical charts. Other features are subordinated or omitted entirely.

Airports:

| | |
|---|---|
| Unclassified | ⊕ |
| Military field | ○ |
| Joint military-civil | ⊙ |
| Commercial or municipal | ⊗ |
| Flight strip (landing area adjacent to highway; symbol indicates direction of runway) | ⊖ |
| Emergency landing field | + |

Seaplane ports:


| | |
|--|---|
| Base with complete facilities | ⊕ |
| Anchorage with limited facilities | † |
| Protected anchorage with no facilities | ‡ |


Beacons:

| | |
|---|--------|
| Rotating, with flashing code beacon | ✱ |
| Rotating, with course lights and code | ✱ 27 — |
| Flashing code | ✱ |
| Flashing | ✱ |

Chart 7.—Aeronautical chart symbols.

Obstruction (center of symbol marks location)..... A 205


Prominent elevation (numerals indicate height in feet)..... 862 

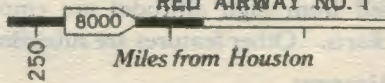
Mooring mast..... 


Night lighting facilities (place under field name)..... LF

Marine navigation light (with characteristic)..... Gp Fl ●

Lines of equal magnetic declination..... 22° W


Prominent transmission line..... 


Civil airways:
With flight levels indicated..... 
250 Miles from Houston

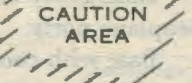
Controlled..... 

Uncontrolled..... 

Air navigation hazards (United States only):

Danger area..... 
DANGER AREA

Caution area..... 
CAUTION AREA

Prohibited area..... 
AIRSPACE RESERVATION

Air defense zone or vital defense area (United States only)..... EASTERN AIR







Air routes as shown on radio direction-finding charts of the United States: 
74



Chart 7.—Aeronautical chart symbols—Continued.

Radio:  WINSTON

Radio fan marker.....  359H •••• KNOXVILLE RADIO 278

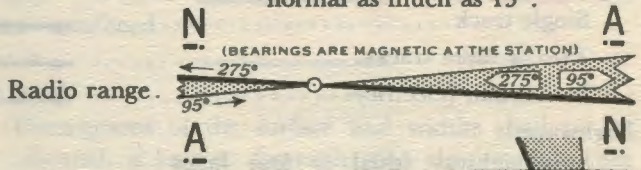
Radio marker beacon (without voice).....  379 AND 209 I •• NEW FLORENCE RADIO 278

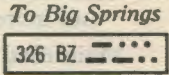
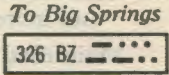
Radio marker beacon (with voice).....  OTTAWA 278 YJ 



Nondirectional radio beacon (type H).....  OTTAWA 278 YJ 


WARNING



Warning note..... Magnetic variation in this area at ground elevation differs from normal as much as 15°.

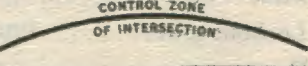



Radio range note (at neat line).....  To Big Springs 326 BZ 

Radio range (without voice).....  206 AP 

Radio range (with voice).....  391 LN •••• LEBO RADIO 278

Radio range (simultaneous).....  WHITEHALL RADIO 284 WW 

Control zone of intersection..... 

Airport control tower.....  BIGGS FIELD TOWER 396


Radio direction finder station.....  RC ALGON KFOB

Chart 7.—Aeronautical chart symbols—Continued.

Radio—Continued.

| | |
|--|--|
| Radio beacon..... | |
| Radio communication station..... | |
| Radio communication station (with radio beacon facility)..... | |
| Radio communication station (with direction-finder facility)..... | |
| Radio broadcasting station..... | |
| Railroads (if abandoned, label): | |
| Single track..... | |
| Two or more tracks..... | |
| Interurban (electric)..... | |
| Highways: | |
| Superhighway (dual or four lanes and more)..... | |
| Main road..... | |
| Secondary road..... | |
| Trails..... | |
| City or large town..... | |
| Town or village..... | |
| Landmark..... | |
| Mine..... | |
| Lookout tower..... | |
| Danger curve..... | |
| Coast guard station..... | |
| Dam or dam with lock..... | |
| Race track..... | |

Chart 7.—Aeronautical chart symbols—Continued.

CHAPTER 5 WORKS OF MAN

10. GENERAL. This chapter gives the symbols used on maps to indicate the works of man.

| | | |
|---|--------------------------|----------------------------|
| | Larger than 1:200,000 | 1:200,000 and smaller |
| Primary highways | | |
| Secondary high- ways..... | | |
| Other surfaced roads..... | | |
| Dirt roads..... | | |
| (Descriptions of the surface and widths shall be indicated, if known, for each road classification. See paragraph 25 and chart 19.) | | |
| Trails..... | | |
| Poor pack trail or footpath..... | | |
| National or U. S. route. | | Provincial or State route. |
| (Date of road information shown in margin on all maps.) | | |
| Telegraph and tele- phone lines..... | | |
| | | |
| Electric power transmission line..... | | |
| Tunnel (railroad or road)..... | | |
| Railroad station of any kind..... | | |

Chart 8.—Roads, railroads, wire communication.

Railroads:

Larger than 1:200,000

| | | | |
|---------------------------|---|--------------------|--|
| Wide gage... | { | Single track . . . | |
| | | Double track . . . | |
| Normal gage.. | { | Single track . . . | |
| | | Double track . . . | |
| Narrow gage.. | { | Single track . . . | |
| | | Double track . . . | |
| Electric passenger only.. | { | Single track . . . | |
| | | Double track . . . | |

1:200,000 and smaller

| | | | |
|---------------|---|--------------------|--|
| Wide gage... | { | Single track . . . | |
| | | Double track . . . | |
| Normal gage.. | { | Single track . . . | |
| | | Double track . . . | |
| Narrow gage.. | { | Single track . . . | |
| | | Double track . . . | |

RR in road 1:250,000 and smaller.

Abandoned RR.

NOTE.—Railroads under construction may be shown either broken or solid, with appropriate notation.

Railroad crossings on maps larger than 1:250,000

Grade, RR above, RR beneath. . .

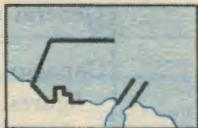
General crossing symbol for maps 1:250,000 and smaller.

Chart 8.—Roads, railroads, wire communication—Continued.

| | | | |
|---------------|---|--|--|
| Bridges | { | General symbol | |
| | | Capacity in tons indicated by figures | |
| Bridges | { | Drawbridges (on large-scale charts leave channel open) | |
| | | Truss (W, wood; S, steel; G, girder; C, concrete) | |
| | | Foot | |
| | | Suspension | |
| | | Arch | |
| | | Ponton | |
| Ferries | { | | |
| Fords | { | (General symbol (for vehicles) | |
| | | Equestrian | |
| | | Pedestrian | |
| Dam | | | |
| Dam with lock | | | |

Chart 9.—River works.

Breakwater, dock and jetties



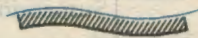
Earth wall, or levee



Levee (optional for War Department)



Revetment (optional for War Department)



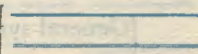
Dikes



River gage



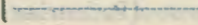
Canal, ditch, or open aqueduct



Canal, abandoned



Buried aqueduct or water pipe



Aqueduct or canal in tunnel



Canal lock (point upstream)



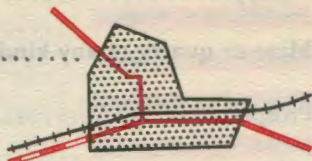
Canal lock (large scale)



Chart 9.—River works—Continued.

1:200,000 and smaller

City, first importance
(actual shape)



City, second importance
(actual shape)



City, third importance



Town, large



Town, small



Village



Sample combination showing city, town,
or village, scales larger than 1:200,000.



NOTE.—Large urban areas may be shown
in gray tint with important buildings and street system in black.

Buildings in general



Hospital



Schoolhouse or university



Windmill



Ruins



Church or place of worship



Fort



Cliff dwellings

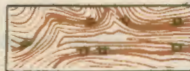
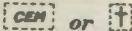



Chart 10.—Buildings, urban areas.

| | | |
|---|---|---|
| Cemetery (cross symbol to be used in U. S. only)..... |  | |
| Mine or quarry of any kind (or open cut) | * x | |
| Prospect..... | x | |
| Shaft..... | o | |
| Mine tunnel { | Opening..... | ^ |
| | Showing direction..... | ↖ |
| Oil or gas wells..... | o o o | |
| Tanks..... |  | |

NOTE.—Scales larger than 1:50,000, show individual wells and tanks. Scales 1:50,000 and larger than 1:200,000, show well and tank farms with three or four symbols. Scales 1:200,000 and smaller, omit wells and tanks. No pipe lines are shown on maps of any scale.



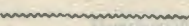




| | | |
|-----------------|---|---|
| Coke ovens..... |  | |
| Fences { | Fence of any kind (or board fence)..... | ----- |
| | Stone..... |  |
| | Worm..... |  |
| | Wire..... |  <i>Barbed</i>  <i>Smooth</i>  |
| | Hedge..... |  |

Chart 11.—Miscellaneous.

Map boundaries






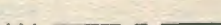


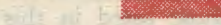
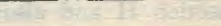

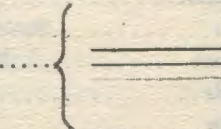
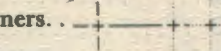
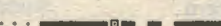
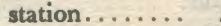


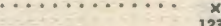

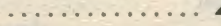
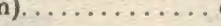
| | |
|--|--|
| Foreign: | |
| International..... |  |
| Intercolonial..... |  |
| State or province..... |  |
| County or district..... |  |
| Note.—Use of red screen is optional. | |
| Domestic: | |
| National or state..... |  |
| County line..... |  |
| Civil township, district or precinct..... |  |
| Reservation line..... |  |
| Land-grant line..... |  (for Military, add tint) |
| Metropolitan area..... |  |
| Cemetery, small park, etc..... |  |
| U. S. township, section, and quarter-section lines (any one for township line alone, any two for township and section lines) |  |
| Located U. S. township and section corners..... |  |
| Boundary monument..... |  |
| Triangulation point or primary traverse station..... |  |
| Permanent bench mark (and elevation)..... |  BM x 1232 |
| Precise bench mark..... |  PBM x 1232 |
| Intermediate bench mark (and elevation)..... |  x 1232 |
| U. S. mineral monument..... |  |
| Observation spot (astronomical position)..... |  |
| Any located station or object (with explanatory note).... |  |

Chart 12.—Boundaries, marks, and monuments.

CHAPTER 6 GENERAL MAPPING ABBREVIATIONS

SECTION 1

TOPOGRAPHIC ABBREVIATIONS

11. GENERAL. The abbreviations listed below are prescribed for use on all United States maps. Besides those listed in this section, those abbreviations listed in section II and also in chapter 10 are used when appropriate:

| | |
|-----------|----------------|
| A..... | arch or arroyo |
| abut..... | abutment |
| b..... | brick |
| bot..... | bottom |
| Br..... | branch |
| br..... | bridge |
| C..... | cape |
| cem..... | cemetery |
| con..... | concrete |
| cov..... | covered |
| Cr..... | creek |
| cul..... | culvert |
| DS..... | drug store |
| E..... | east |
| Est..... | estuary |
| f..... | fordable |
| Ft..... | fort |
| gir..... | girder |
| i..... | iron |

| | |
|-----------|--------------------|
| I..... | island |
| Jc..... | junction |
| kp..... | king-post |
| L..... | lake |
| Lat..... | latitude |
| Ldg..... | landing |
| LSS..... | lifesaving station |
| LH..... | lighthouse |
| Long..... | longitude |
| Mt..... | mountain |
| Mts..... | mountains |
| N..... | north |
| nf..... | not fordable |
| p..... | pier |
| pk..... | plank |
| PO..... | post office |
| Pt..... | point |
| qp..... | queen-post |
| R..... | river |
| RH..... | roundhouse |
| RR..... | railroad |
| 2d..... | second |
| S..... | south |
| s..... | steel |
| Sch..... | schoolhouse |
| Sta..... | station |
| St..... | stone |
| str..... | stream |
| TG..... | tollgate |
| 3d..... | third |
| Tres..... | trestle |
| tr..... | truss |
| WT..... | water tank |
| WW..... | waterworks |
| W..... | west |
| w..... | wood |

SECTION II

ABBREVIATIONS USED WITH HYDROGRAPHIC SYMBOLS

12. GENERAL. The following abbreviations, for use with hydrographic symbols, are authorized for all United States nautical maps and charts. These abbreviations are approved by the Federal Board of Surveys and Maps and are used by the United States Coast and Geodetic Survey and Hydrographic Office.

13. RELATING TO LIGHTS.

| | |
|---------|--------------------------|
| AERO | aeronautical |
| Alt | alternating |
| Bu | blue |
| D | destroyed |
| ev | every |
| Exper | experimental |
| F | fixed |
| F Gp FL | fixed and group flashing |
| F FL | fixed and flashing |
| FL | flashing |
| G | green |
| Gp | group |
| Gp FL | group flashing |
| Gp Occ | group occulting |
| Hor | horizontal |
| I Qk | interrupted quick |
| Irreg | irregular |
| Lt | light |
| Lt Ho | lighthouse |
| m | nautical mile |

| | |
|-------------|--|
| min | minutes |
| OBSC | obscured |
| Occ | occulting |
| Priv maintd | private light (maintained by private interests; to be used with caution) |
| Qk FL | quick flashing |
| R | red; range |
| REF | reflector |
| Rev | revolving |
| sec | seconds |
| SEC | sector |
| S-L | short-long |
| Temp | temporary |
| (U) | unwatched |
| VB | vertical beam |
| Vert | vertical |
| vis | visible |
| W | white |

14. RELATING TO FOG SIGNALS.

| | |
|-----|---------------------------------|
| DFS | distance finding station |
| FB | fog bell |
| FD | fog diaphone |
| FG | fog gong; fog gun |
| FH | fog reed; fog horn |
| FN | fog nautophone |
| FS | fog siren; fog signal station |
| FT | fog trumpet |
| FW | fog whistle |
| SB | submarine fog bell (mechanical) |
| SFO | submarine fog oscillator |

15. RELATING TO DANGERS.

| | |
|-----|--------|
| Bk | bank |
| COV | covers |

| | |
|--------------------|----------------------|
| <i>D</i> | doubtful |
| <i>ED</i> | existence doubtful |
| <i>Obstr</i> | obstruction |
| <i>PA</i> | position approximate |
| <i>PD</i> | position doubtful |
| <i>Pos</i> | position |
| <i>rep</i> | reported |
| <i>Shl</i> | shoal |
| <i>uncov</i> | uncovers |
| <i>Wk</i> | wreck |
| <i>Wks</i> | wreckage |

16. RELATING TO TIDES AND CURRENTS.

| | |
|-------------------|------------------------|
| <i>HW</i> | high water |
| <i>HHW</i> | higher high water |
| <i>LW</i> | low water |
| <i>LLW</i> | lower low water |
| <i>MHW</i> | mean high water |
| <i>MHHW</i> | mean higher high water |
| <i>MLW</i> | mean low water |
| <i>MLLW</i> | mean lower low water |
| <i>MSL</i> | mean sea level |
| <i>MTL</i> | mean tide level |

17. RELATING TO QUALITY OF BOTTOM.

a. Material.

| | |
|---------------------|-------------|
| <i>Bld(s)</i> | boulder(s) |
| <i>Ck</i> | chalk |
| <i>Cl</i> | clay |
| <i>Cn</i> | cinders |
| <i>Co</i> | coral |
| <i>Co Hd</i> | coral head |
| <i>Di</i> | diatom |
| <i>G</i> | gravel |
| <i>Gl</i> | globigerina |
| <i>Grs</i> | grass |

| | |
|----------------------|--------------|
| <i>La</i> | lava |
| <i>M</i> | mud |
| <i>Ml</i> | marl |
| <i>Oys</i> | oysters |
| <i>Oz</i> | ooze |
| <i>P</i> | pebbles |
| <i>Pm</i> | pumice |
| <i>Rk</i> | rock |
| <i>S</i> | sand |
| <i>Sh</i> | shells |
| <i>Sp</i> | specks |
| <i>Spg</i> | sponge |
| <i>St</i> | stones |
| <i>Vol Ash</i> | volcanic ash |

b. Quality.

| | |
|-------------------|----------|
| <i>brk</i> | broken |
| <i>crs</i> | coarse |
| <i>dk</i> | dark |
| <i>fly</i> | flinty |
| <i>fne</i> | fine |
| <i>glac</i> | glacial |
| <i>gty</i> | gritty |
| <i>hrd</i> | hard |
| <i>lrg</i> | large |
| <i>lt</i> | light |
| <i>rky</i> | rocky |
| <i>sft</i> | soft |
| <i>sml</i> | small |
| <i>spk</i> | speckled |
| <i>stf</i> | stiff |
| <i>stk</i> | sticky |

c. Color.

| | |
|-----------------|-------|
| <i>bk</i> | black |
| <i>br</i> | brown |
| <i>bu</i> | blue |
| <i>gn</i> | green |

| | |
|-----------------|--------|
| <i>gy</i> | gray |
| <i>rd</i> | red |
| <i>wh</i> | white |
| <i>yl</i> | yellow |

18. RELATING TO BUOYS AND BEACONS.

| | |
|-------------------|--------------------|
| <i>B</i> | black |
| <i>Bn</i> | beacon |
| <i>Br</i> | brown |
| <i>C</i> | can |
| <i>Chec</i> | checkered |
| <i>G</i> | green |
| <i>HB</i> | horizontal bands |
| <i>HS</i> | horizontal stripes |
| <i>N</i> | nun |
| <i>R</i> | red |
| <i>REF</i> | reflector |
| <i>VS</i> | vertical stripes |
| <i>W</i> | white |
| <i>Y</i> | yellow |

19. RELATING TO STATIONS.

| | |
|----------------------|---|
| <i>FP</i> | flagpole |
| <i>FS</i> | flagstaff |
| <i>F TR</i> | flag tower |
| <i>LOOK TR</i> | lookout tower |
| <i>LSS</i> | lifesaving station |
| <i>NRC</i> | naval radio direction-finder (radio compass station) |
| <i>NRS</i> | naval radio station |
| <i>PIL STA</i> | pilot station |
| <i>R Bn</i> | radio beacon |
| <i>RS</i> | radio station |
| <i>R Tr</i> | radio tower |
| <i>SIG STA</i> | signal station |
| <i>S PIPE</i> | standpipe |

| | |
|-------------------------|-------------------------------|
| <i>STA</i> | station |
| <i>WB SIG STA</i> | Weather Bureau signal station |

20. GENERAL ADJECTIVES.

| | |
|-----------------------|--------------------|
| <i>aband</i> | abandoned |
| <i>abt</i> | about |
| <i>anc</i> | ancient |
| <i>approx</i> | approximate |
| <i>bet</i> | between |
| <i>Cl</i> | clearance |
| <i>Concr</i> | concrete |
| <i>Conspic</i> | conspicuous |
| <i>cor</i> | corner |
| <i>discontd</i> | discontinued |
| <i>dist</i> | distant |
| <i>elec</i> | electric |
| <i>estab</i> | established |
| <i>exper</i> | experimental |
| <i>extr</i> | extreme |
| <i>fl</i> | flood |
| <i>gt</i> | great |
| <i>lrg</i> | large |
| <i>maintd</i> | maintained |
| <i>mid</i> | middle |
| <i>mod</i> | moderate |
| <i>No</i> | number |
| <i>prio</i> | private, privately |
| <i>prom</i> | prominent |
| <i>sml</i> | small |
| <i>std</i> | standard |
| <i>subm</i> | submerged |

PART II

MILITARY MAPPING SYMBOLS

CHAPTER 7

MILITARY UNITS

21. IDENTIFICATION. a. The symbols in chart 13 are used to indicate military units or their activities on maps, sketches, and overlays. Where the use of the identifying symbol of a military unit is impracticable, abbreviations are employed.

b. These symbols are used either within a rectangle to indicate a military unit, a triangle to indicate an observation post, or a circle to indicate a supply point.

22. SIZE. The symbols in chart 14 are used to indicate the size of a military organization. They are used mainly with boundary symbols, or with rectangles, triangles, or circles in conjunction with the symbols in chart 13. See charts 17 and 26-40.





















| | |
|---|---|
| Antiaircraft Artillery..... |  |
| Armored Command..... |  |
| Army Air Forces..... |  |
| Artillery, except Antiaircraft Artillery..... |  |

Chart 13—Military units—identification.

| | |
|-------------------------------|---|
| Cavalry (horse)..... |  |
| Mechanized..... |  |
| Chemical Warfare Service..... |  |
| Engineers..... |  |
| Special (amphibian)..... |  |
| Infantry..... |  |
| Medical Corps..... |  |
| Military Police..... |  |
| Ordnance Department..... |  |
| Quartermaster Corps..... |  |
| Signal Corps..... |  |
| Tank destroyer..... |  |
| Transportation Corps..... |  |
| Veterinary Corps..... |  |

Notes.—1. Coast Artillery Corps uses the artillery symbol, with appropriate abbreviations. See chart 31.

2. Airborne units are designated by combining a gull wing symbol with the arm or service symbol. Examples:

| | |
|-------------------------|---|
| Airborne Artillery..... |  |
| Airborne Infantry..... |  |

3. For units attached to Air Forces, the arm or service symbol is placed over the Air Forces symbol. Examples:



| | |
|-----------------------------|---|
| Aviation signal unit..... |  |
| Aviation ordnance unit..... |  |

Chart 13.—Military units—identification—Continued.

The following symbols are placed either in boundary lines (see chart 17) or above the rectangle, triangle, or circle inclosing the identifying arm or service symbol.

| | |
|---|------|
| Squad | • |
| Section | •• |
| Platoon | ••• |
| Company, troop, battery, or Air Forces flight | |
| Battalion, cavalry squadron, or Air Forces squadron .. | |
| Regiment or group; combat team (with abbreviation CT following identifying numeral) | |
| Brigade, combat command of armored division, or Air Forces wing | × |
| Division, or command of an Air Force | ×× |
| Corps or Air Force | ××× |
| Army | ×××× |
| Service command, department, or section of communications zone | ○○○ |
| Communications zone | ○○○○ |
| General Headquarters | GHQ |

Chart 14.—Military units—size.

CHAPTER 8

MILITARY ACTIVITIES

23. GENERAL. a. This chapter contains symbols used for military purposes on maps, charts, and overlays. These symbols are authorized for all military use, but they are used mainly on large-scale maps. No departures from these symbols should be made unless none of these signs applies or when the scale of a map prevents their use.

b. Special signs and symbols of a technical nature, such as signal wiring diagrams, construction blueprints, engineer construction symbols, or coast artillery fire-control maps, may be found in Field and Technical Manuals of the arm or service concerned.

24. COLOR. When colors are used, military symbols representing objects in territory occupied or controlled by our forces are shown in blue, and those in territory occupied or controlled by the enemy are shown in red. The only exceptions are the following:

a. Symbols for areas to be covered by friendly fire or gas, although generally located in enemy territory, are executed in blue.

b. Symbols for gassed areas, wherever located, are always executed in red.

Military airdrome, general



Commercial or municipal airfield



Army Air Forces air base or service center



Chart 15.—Air activities.

Night fighter airdrome.....



Air field:

Landing

Satellite

Auxiliary

Advanced



Dummy.....



Dispersal point for airplane.....



Revetment, splinterproof, for airplane.....



Airship.....



Airship hangar.....



Airship mooring mast.....



Autogiro or helicopter.....



Radar station.....



(Type No. —)

Barrage balloon ascension point.....



Balloon barrage area (with number and height).



Antiaircraft defended area.....



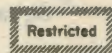
Searchlight belts.....



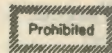
Combined antiaircraft and searchlight area.....



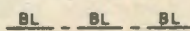
Restricted flying area.....



Prohibited flying area.....



Bomb line.....



Free bombing area.....



Antiaircraft ship (top of mast placed at exact location).....




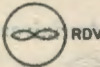
Antiaircraft ship, defended area (circle shows radius of effective action).....

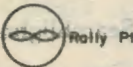


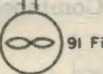
Convoy (arrow indicates direction; point of arrow is at position of convoy).....



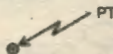
Submarine (arrow indicates direction; top of tower is at position)..... 

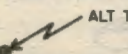
Rendezvous point.....  RDV

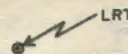
Rally point.....  Rally Pt

Example, for separate units: 91st Fighter Squadron.....  91 Fi

Targets:

Primary.....  PT

Alternate.....  ALT T

Last Resort.....  LRT


Aircraft patrol area..... 

Chart 15.—Air activities—Continued.





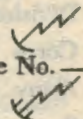
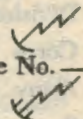





| | |
|--|---|
| Antiaircraft unit symbol..... |  |
| Balloon..... |  |
| Barrage balloon ascension point..... |  |
| Searchlight..... |  |
| Radio detector (radar)..... |  |
| Searchlight with radio detector..... |  |
| Searchlight at principal control point..... |  |
| Searchlight at subcontrol point..... |  |
| Spread-beam searchlight..... |  |
| Self-propelled antiaircraft artillery..... |  |
| 50-caliber antiaircraft machine gun..... |  |
| 4.7-inch antiaircraft gun..... | ♦ 4.7 AA |
| 3-inch antiaircraft gun..... | ♦ 3 AA |
| 90-mm antiaircraft gun (etc., caliber on right)..... | ♦ 90 AA |

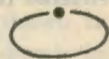
Chart 16.—Antiaircraft artillery activities.

| | |
|--|-------------|
| Squad | —•— |
| Section | —••— |
| Platoon | —•••— |
| Company or similar unit | — I — |
| Battalion or similar unit | — II — |
| Regiment or similar unit | — III — |
| Brigade | — X — |
| Division | — XX — |
| Corps | — XXX — |
| Army | — XXXX — |
| Service command, department, or section of communications zone | — OOO — |
| Communications zone | — OOOO — |
| Rear boundary of theater of operations | — GHQ — |
| Front line | ▩ |
| Fighter aviation (limit of radius of action) | — ∞ Fi — |
| Observation aviation (limit of zone of reconnaissance) | — ∞ Obsan — |
| Limit of wheeled traffic by day | — DY — |
| Limit of wheeled traffic by night | — NT — |
| Line beyond which lights on vehicles are prohibited | — LT — |
| Outpost line | — OPL — |
| Main line of resistance | — MLR — |
| Regimental reserve line | — RRL — |
| Limiting point | — ⊗ — |
| Line of communication | — LC — |
| Line of departure | — LD — |
| Straggler line | — [P] — |
| Prisoner of War inclosure, IV Corps | *** PW* |

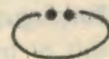
Chart 17.—Boundaries and delimited areas.

Defense areas (consist of boundaries broken by unit symbol):

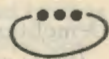
Squad



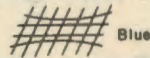
Section



Platoon

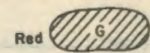


Demolitions

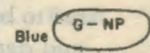


Gas (see also chart 18):

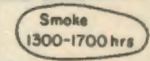
Area to be avoided



Area to be gassed, nonpersistent



Area blanketed by smoke (time effective)



Target areas (indicate caliber; draw symbol to scale):

Primary, 60-mm mortar (50 yards square)



Primary, 81-mm mortar (100 yards square)



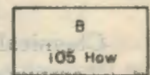
Secondary, 60-mm mortar (50 yards in diameter)



Secondary, 81-mm mortar (100 yards in diameter)



Normal, Battery B, 105-mm howitzer (100 by 200 yards)



Emergency, Battery B, 105-mm howitzer (100 by 200 yards)

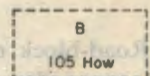


Chart 17.—Boundaries and delimited areas—Continued.



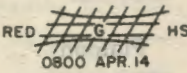


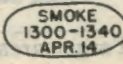
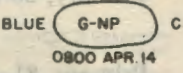
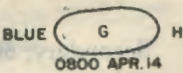

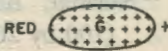

| | |
|---|---|
| Arsenal (chemical warfare)..... |  |
| Building, gasproof..... |  |
| Demolitions, vesicant contaminated (show agent, time, and date)..... |  |
| Dugout, gasproof..... |  |
| Gas: | |
| Area to be avoided (show agent, time, and date)..... |  |
| Area to be blanketed by smoke (show time effective and date)..... |  |
| Area to be gassed, nonpersistent (show agent, time, and date).... |  |
| Area to be gassed, persistent (show agent, time, and date)..... |  |
| Mines: | |
| Chemical land mine..... |  |
| Chemical land-mine barrier (mines emplaced but unfired)..... |  |
| Road-block obstacle, contaminated (show agent, time, and date)..... |  |

Chart 18.—Chemical warfare activities.

25. ROAD AND BRIDGE CLASSIFICATION.

On topographic maps, road classification is as shown in chart 8. Military traffic control symbols are shown in chart 24. For military field sketches and topographic reconnaissance, the classification system described in this paragraph is used. The characteristics of roads and bridges are indicated by the following symbols and abbreviations:

a. General road types.

| | Type of surface | | |
|---|---|--|--|
| | All weather | Earth | |
| Physical characteristics | Paved: such as concrete, bituminous, brick, or other pavement | Improved: such as gravel, crushed rock, stabilized soil, select granular material, or other wearing material | Unimproved: dusty when dry; muddy when wet |
| Good road (gentle grades, gradual curves, smooth surface, good foundation). | A | C | E |
| Poor road (steep grades, sharp curves, rough surface, or poor foundation). | B | D | F (probably impassible in wet weather). |

† Includes roads of these materials which have had a treatment to lay dust or which are covered by a bituminous surface treatment or seal coat.

b. General characteristics of roads and bridges.

(1) *Traffic lanes.*

1, 2, 3, etc. Placed after road type symbol to indicate roadways suitable for continuous traffic in one, two, three, etc., lanes respectively.

1+ One-lane roadway having occasional passing locations, and suitable for very light two-way traffic.

1½ One-lane roadway having frequent passing location, and suitable for light two-way traffic.

2 Two-lane roadway having occasional one-lane defiles, and suitable for moderate two-way traffic.

(2) *Information.*

W Followed by numeral indicates clearance width in feet provided at most critical location. Symbol is preceded by numeral to indicate more than one such lane (for example, 2 W 9 indicates two separate lanes, each of which provides a clearance width of 9 feet).

Cl Followed by numeral indicates clearance height in feet between surface of roadway and overhead obstruction.

T Preceded by numeral indicates tonnage limitation. (Bridges.)

Mi Preceded by numeral indicates distance in miles.

I Followed by numeral indicates average interval of time (time-distance) in minutes required by motor vehicles during daylight to travel section of road shown.

c. Engineer characteristics of roads and bridges.

(1) *Roads.*

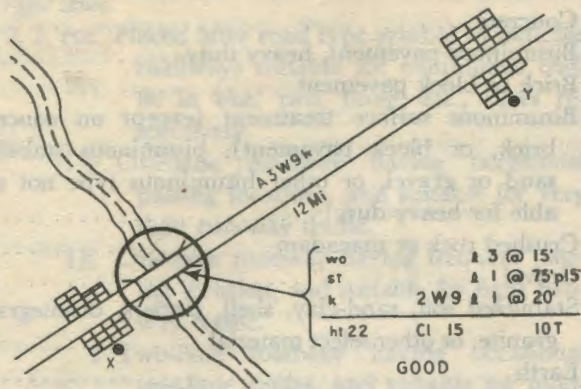
| | |
|---|----|
| Concrete | k |
| Bituminous pavement, heavy duty | bt |
| Brick or block pavement | br |
| Bituminous surface treatment (except on concrete, brick, or block pavement), bituminous stabilized sand or gravel, or other bituminous type not suitable for heavy duty | bs |
| Crushed rock or macadam | m |
| Gravel | g |
| Stabilized soil, sand-clay, shell, cinders, disintegrated granite, or other select material | sm |
| Earth | ea |

(2) *Bridges.*

| | |
|--|-----|
| Concrete, slab or beam | k |
| Concrete arch | ka |
| Steel beam | sb |
| Steel truss | st |
| Steel girder | sg |
| Stone arch | sa |
| Wood trestle | wo |
| Wood truss | wot |
| Length | l |
| Height above stream bed | ht |
| Panel length (trusses) | p |
| Condition (state as "excellent," "good," "fair," or "poor.") | |

d. Example (see chart 19). Sketch between villages X and Y with good, all-weather, three 9-foot lanes, concrete road, 12 miles long, and a multiple bridge 140 feet long consisting of 45 feet of wood truss, and 20 feet of concrete beam and 75 feet of steel truss with 15-foot panels; 18-foot roadway width, 22 feet above stream bed, 15-foot clearance, capable of carrying 10 tons, and in good condition.

Road and bridge classification:



Special engineer landing craft:

- Command and navigation, or patrol, boat...
- Landing craft, mechanized (LCM)...
- Salvage boat...
- Landing craft, vehicle-personnel (LCVP)...

Chart 19.—Engineer symbols.

- Trench for one squad...
- Isolated dugout...
- Dugout in trench system...
- Gasproof dugout... G-PF

Chart 20.—Field and permanent fortifications.

Surface shelter Occupied Unoccupied
(personnel capacity indicated) 10 8

Underground shelter Occupied Unoccupied
(personnel capacity indicated) 10 6

Surface shelter in trench system

Underground shelter in trench system

Gasproof surface shelter G-PF

Fort, general

Pillboxes:

- Concrete
- Steel turret
- Machine guns, direction of fire unknown
- Antitank guns, direction of fire unknown
- Direction of fire known, caliber unknown
- Machine guns, direction of fire known
- Antitank guns, direction of fire known

Fortified area, general

Chart 20.—Field and permanent fortifications—Continued.

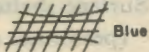
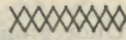
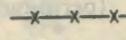

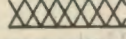
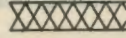
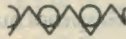
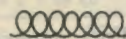
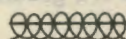
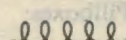
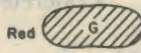
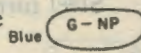
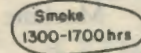
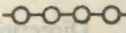




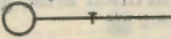
| | | |
|---|---|------|
| Demolitions..... |  | Blue |
| Entanglements: | | |
| Barbed wire, general..... |  | |
| Four-strand fence (protective wire)..... |  | |
| Double-apron fence..... |  | |
| Low-wire fence..... |  | |
| High-wire fence..... |  | |
| Combination band..... |  | |
| Loose wire rolls..... |  | |
| Dannert wire or concertina..... |  | |
| Concealed wire..... |  | |
| Gas (see also chart 18): | | |
| Area to be avoided..... |  | Red |
| Area to be gassed, nonpersistent (indicate date and hour—see chart 18). |  | Blue |
| Area blanketed by smoke (time effective). |  | |
| Mines and mine fields: | | |
| Land mines: | | |
| Single string of antitank mines..... |  | |
| Activated antitank mine..... |  | |
| Double antitank mine..... |  | |
| Double activated antitank mine..... |  | |
| Pressure type antipersonnel mine..... |  | P |
| Trip-wire type antipersonnel mine |  | |

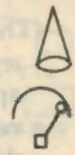
Chart 21.—Obstacles.

Mines and mine fields—Continued.

Land mines—Continued.

Booby trap.....

Mine detector.....



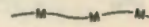
Mine fields.—The color green should be used to designate mine field areas, demolitions, road blocks, and other engineer obstacle activities. The color green is to be used for no other military activity. When the color green is not available, the symbol will be executed in black.

To be reproduced in green
(in black if green is not available).

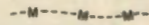
Mine belt; numerals in rectangle indicate number of mines in belt. D in rectangle represents dummy mine field. Mines in definite pattern; boundaries drawn to scale to indicate actual extent of belt.....



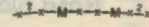
Boundary of mine field unfenced.....



Boundary of mine field indefinite, unfenced.....



Boundary of mine field, fenced with barbed wire. Numerals indicate number of strands in fence.....



Example of symbols in mine field. Scattered mines between boundaries and between belts are indicated schematically by small circular marks.....

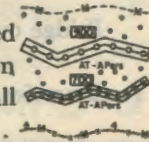

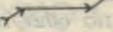



Chart 21.—Obstacles—Continued.

Marine mines, controlled..... 


(This symbol indicates one 19-mine group, and a separate symbol is used for each group. As it appears here, the upper edge of this page is assumed to be seaward; and on charts the symbols should be correspondingly placed. The length of a mine group being 1,800 feet, the symbol is drawn to scale. Its position represents the contemplated disposition of the mine group.)

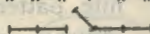
Leader gear..... 

(An energized cable to aid vessels through free passages in marine mine fields. Symbol is used on chart to show exact location.)










Chemical land mine..... 

Marine nets:

Torpedo net (with gate)..... 

Antisubmarine net (with gate)..... 

Obstacle, general:

| | Proposed | Prepared but passable | Completed |
|-----------------|---|---|---|
| Individual..... |  |  |  |
| Road block..... |  |  |  |
| Bridge out..... |  |  |  |

Tank barrier..... 






Tank trap..... 

Chart 21.—Obstacles—Continued.

Filter center..... 


Information center..... 


Message Center.....  M/C

Point on axis of signal communication (probable future location of command post)..... 


Examples:


Artillery..... 

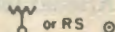
Cavalry..... 

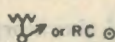
Infantry..... 


Radar station..... 


(Type No. )


Radio intercept station..... 


Radio station (transmitting and receiving).....  or RS ⊙


Radio direction—finder station (radio compass).....  or RC ⊙


Radio direction—finder station, mobile..... 


Radio direction—finder station, portable.....  PIBI

Switching central (located at command post)..... 

Switching central..... 

Commercial switching central.....  Coml


Teletypewriter central.....  T

Test station or cable terminal.....  Name


Visual signal..... 

NOTE.—For special symbols used in signal communication for wiring diagrams, line route maps, traffic diagrams, and signal operation maps, see FM 24-5 and TM 11-462.



Chart 22.—Signal facilities.


Military post or station; command post or headquarters. 

(Lower end of staff terminates at a military post or station or at an easily recognizable terrain feature near a command post or unit headquarters.)

Troop unit. 


(On large-scale maps where troop units can be shown to scale, this symbol may be modified as follows so as to show area occupied by units in column or line and direction in which they are facing):


Line  Column 

Arsenal. 


Arsenal (chemical warfare). 


General hospital. 


Laboratory, experimental center, or proving ground. 


Point, any located (suitable description). 


Posts:


Observation, general. 

Fixed underwater, listening. 

Visual signal. 


Reception center. 

Replacement training center. 

Training center. 

Weather station. 

Chart 23.—Special buildings, posts, and centers.

Debarcation or embarkation point. 

Supply points:


Occupied. 


Proposed. 


Examples:


Railhead. 

Class I supplies. 


Ammunition (Class V supplies). 


Artillery ammunition. 


Small-arms ammunition. 

Class III supplies. 


Water. 


Engineer (arm or service symbol in circle). 

Procurement district, headquarters. 


Railroad center. 


Supply:

Ammunition, all classes. 

Ammunition, artillery. 

Ammunition, small arms. 

Class I. 

Gasoline and oil. 

Water. 









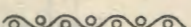

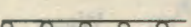





Remount Service. 

Chart 24.—Supply, transportation, traffic.

Petroleum supply:

| | |
|--|---|
| Gas wells |  |
| Oil wells |  |
| Oil-well derrick |  |
| Petroleum tank |  |
| Bulk storage petroleum products |  |
| Surface cable |  |
| Submarine cable |  |
| Submarine pipeline |  |
| Gas pipeline |  |
| Oil pipeline |  |
| Petroleum products pipeline, general |  |

| | |
|----------------------------------|---|
| Trains (supply, motor) |  |
| Animal-drawn |  |
| Pack |  |
| Railway |  |

Traffic and traffic control:




| | |
|-----------------------------------|---|
| Railroad grade crossing |  |
| Railroad above road |  |
| Railroad beneath road |  |

Chart 24.—Supply, transportation, traffic—Continued.

Traffic and traffic control—Continued.






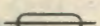

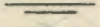
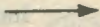
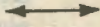

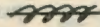
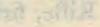

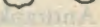


| | |
|--|---|
| Boundary between two sections of roadway |  |
| Impassable roadway |  |
| Bridge |  |
| Tunnel |  |
| Rotary traffic |  |
| Turn-around location |  |
| Parallel line to one-lane road indicates length of roadway where passing is possible |  |
| One-way traffic |  |
| Two-way traffic |  |
| Alternating one-way traffic |  |
| Dispatch route (operated by schedule system) |  |
| Reserved route (can be used by specific traffic only) |  |
| National and state route markers, respectively |  |
| Military route marker |  |
| Traffic post (or unit); traffic headquarters |  |
| Marked road intersection (atlas-grid system) |  |
| Line beyond which any lights (including black-out lights) are prohibited |  |

Chart 24.—Supply, transportation, traffic—Continued.















| | |
|--|---|
| Automatic rifle..... |  |
| Automatic rifle (position prepared but not occupied)..... |  |
| Machine guns (arrow points in principal direction of fire): | |
| Caliber .30, water-cooled, heavy..... |  |
| Caliber .30, air-cooled, light..... |  |
| Caliber .50..... |  |
| Antiaircraft..... |  |
| Sector of fire of single machine gun (arrows indicate sector of fire; heavy solid portion on solid arrow shows danger space when fire is placed on final protective line)..... |  |
| Sector of fire of machine-gun section (two guns)..... |  |
| Rifle, firing antitank grenade..... |  |
| Rocket launcher, antitank..... |  |
| Antitank gun, 75-mm (caliber specified on right). |  |
| 75-mm antitank gun in position with principal direction of fire..... |  |
| 37-mm antitank gun in position with principal direction of fire..... |  |
| 37-mm antitank gun emplacement, showing principal direction of fire..... |  |

Chart 25.—Weapons.









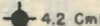








| | | | |
|--|---|--|---|
| Gun..... |  | } Open when emplacement is unoccupied, thus... } |  |
| Gun battery..... |  | |  |
| Howitzer or mortar..... |  | |  |
| Howitzer or mortar battery..... or |  | |  |
| 4.2-inch chemical mortar..... |  | |  |
| Tanks: | | | |
| Light..... | | |  |
| Medium..... | | |  |
| Heavy..... | | |  |
| Self-propelled guns: | | | |
| Howitzer (tank-chassis mounted; indicate caliber)... | | |  |
| Mortar (indicate caliber)..... | | |  |
| Gun (indicate caliber)..... | | |  |
| Ammunition carrier..... | | |  |

Chart 25.—Weapons—Continued.

CHAPTER 9

ILLUSTRATIONS OF MILITARY SYMBOLS

26. UNIT DESIGNATIONS.—This chapter contains examples to illustrate the method of combining basic symbols and abbreviations in order to show the desired information. The following are general rules governing the application of these symbols to rectangles, triangles, or circles representing, respectively, troop units, observation posts, and supply points:

a. The basic symbol is placed in the center. (See chart 13.)

b. The symbol for the size of the unit is placed above.

c. Army and air force are shown by a number spelled out.

d. Corps and air force command are shown by Roman numerals.

e. When the symbol represents either an army or a corps in its entirety, the numeral designation is placed *inside* the box. When the symbol pertains to a unit within an army or corps, the army or corps numeral is placed on the right, *outside* the box.

f. Numbers designating battalions in a regiment are shown on the left, in Arabic numerals.

g. Numbers designating separate battalions are shown on the right, in Arabic numerals.

h. Numbers designating divisions, brigades, groups, regiments, separate companies, or similar separate units are placed on the right, in Arabic numerals.

i. Letters designating companies, troops, or batteries are in capitals and are shown on the left.

j. Companies, troops, batteries, or platoons (not separate), and other elements of a unit which are designated by name instead of by letter (for example, "Antitank Company" or "Headquarters and Service Troop"), are designated by the use of the proper abbreviation on the left.

k. Abbreviations for explanatory purposes are shown on the right (see ch. 10).

l. Abbreviations are used instead of symbols to show information that cannot be indicated by a single symbol.

m. Calibers are shown by numbers placed under the symbol and the unit of measure is omitted.

27. APPLICATION OF SPECIAL SYMBOLS.

The following examples illustrate the method of combining basic symbols and abbreviations in order to show the desired information. These are only a few of the possible combinations. The following diagram illustrates how these symbols are built up:



This is a troop unit.



This makes it infantry.



This makes it a battalion of infantry.



This makes it a battalion of airborne infantry.



This makes it a parachute battalion of airborne infantry.



3 502 Pcht This tells what battalion of parachute infantry it is.





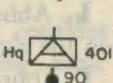
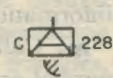
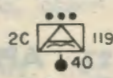
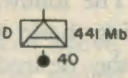

| | |
|---|---|
| 88th Antiaircraft Artillery Brigade..... |  |
| 3d Antiaircraft Artillery Group..... |  |
| 302d Antiaircraft Balloon Battalion (low altitude)..... |  |
| 101st Antiaircraft Balloon Battery (separate) (very low altitude)..... |  |
| Headquarters Battery, 401st Antiaircraft Gun Battalion..... |  |
| Battery C, 228th Antiaircraft Searchlight Battalion..... |  |
| 2d Platoon, Battery C, 119th Airborne Antiaircraft Battalion..... |  |
| Battery D, 441st Antiaircraft Artillery Automatic Weapons Battalion (mobile)..... |  |
| Battery A, 105th Antiaircraft Artillery Automatic Weapons Battalion (self-propelled)... |  |

Chart 26.—Examples—Antiaircraft Artillery.






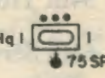


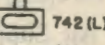


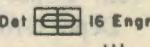

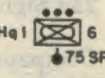
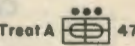
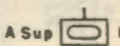
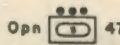
| | |
|--|---|
| I Armored Corps..... |  |
| 1st Armored Division..... |  |
| Combat Command A, 1st Armored Division..... |  |
| 1st Armored Division Trains..... |  |
| Transportation Platoon, Headquarters Company, 1st Armored Reconnaissance Battalion..... |  |
| Assault Gun Platoon, Headquarters Company, 1st Battalion, 1st Armored Regiment..... |  |
| Company A, 1st Armored Regiment..... |  |
| 1st Tank Group..... |  |
| 742d Tank Battalion (light)..... |  |
| 6th Armored Artillery Group..... |  |
| 16th Armored Engineer Battalion..... |  |
| Medical Detachment, 16th Armored Engineer Battalion..... |  |
| 6th Armored Infantry Regiment..... |  |
| Assault Gun Platoon, Headquarters Company, 1st Battalion, 6th Armored Infantry Regiment..... |  |
| Treatment Platoon, Company A, 47th Armored Medical Battalion..... |  |
| Company A, Supply Battalion, 1st Armored Division..... |  |
| Operations Platoon, 47th Armored Signal Company..... |  |

Chart 27.—Examples—armored.
















| | | |
|---|---|-----------------|
| First Air Force..... |  | First |
| IV Fighter Command..... |  | IV Fi |
| 18th Fighter Wing..... |  | 18 Fi |
| 4th Reconnaissance Group..... |  | 4 Rcn |
| 5th Bombardment Squadron (heavy)..... |  | 5 Bomb (H) |
| 54th Troop Carrier Group..... |  | 54 Tr Carr |
| 66th Service Squadron..... |  | 66 Serv |
| 12th Glider Squadron..... |  | 12 Gli |
| 88th Reconnaissance Squadron..... |  | 88 Rcn |
| Air Support Control B, 8th Air Support Communications Squadron..... |  | B A Spt Com |
| 5th Photo Reconnaissance Squadron..... |  | 5 Ph Rcn |
| 16th Depot Repair Squadron, 15th Air Depot Group..... |  | 16 Rep 15 A Dep |
| 20th Air Base Security Battalion..... |  | 20 |
| 23d Signal Company, Wing..... |  | 23 Wg |
| Company C, 321st Engineer Aviation Battalion..... |  | C 321 |

Chart 28.—Examples—Army Air Forces.

















| | | |
|---|---|---------|
| Machine Gun Platoon, Troop A, 5th Cavalry..... |  | 5 |
| Caliber .50 Machine Gun Section, Troop A, 5th Cavalry..... |  | 5 |
| 1st Platoon, Weapons Troop, 14th Cavalry..... |  | 14 |
| Mortar Platoon, Weapons Troop, 14th Cavalry..... |  | 14 |
| Troop E, 1st Reconnaissance Squadron, Mechanized..... |  | E 1 Rcn |
| 2d Platoon, Troop A, 4th Cavalry, Mechanized..... |  | 4 |
| Antitank Platoon, Headquarters Troop, 2d Cavalry Brigade..... |  | 2 Brig |
| 1st Tank Platoon, Troop E, 1st Reconnaissance Squadron..... |  | E 1 Rcn |
| 5th Cavalry Group, Mechanized..... |  | 5 |
| 89th Cavalry Mechanized Reconnaissance Squadron: | | |
| Acting alone..... |  | 89 Rcn |
| Acting as part of 5th Cavalry Group..... |  | 5 |
| Reconnaissance Troop (Mechanized) 9th Cavalry Division..... |  | 9 Div |
| 1st Cavalry Division..... |  | 1 |
| Command Post, 5th Cavalry..... |  | 5 |
| Observation Post, 9th Cavalry..... |  | 9 |
| Park, Mechanized Cavalry Group..... |  | Prk |

Chart 29.—Examples—Cavalry.







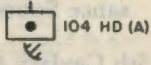
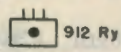
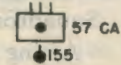
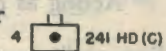
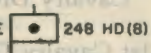
| | | |
|---|---|------------|
| 2d Platoon, 1st Chemical Company, Service Aviation..... |  | 1 Serv Avn |
| 10th Chemical Company, Maintenance..... |  | 10 Maint |
| Company B, 2d Separate Chemical Battalion..... |  | 2 Bn (Sep) |
| 3d Battalion, 901st Chemical Regiment..... |  | 901 |
| Proposed Chemical Warfare Supply Point, IV Corps..... |  | |
| Chemical Depot, First Army..... |  | |

Chart 30.—Examples—Chemical Warfare Service.

| | |
|---|---|
| Searchlight Battery, 104th Coast Artillery, Harbor Defense Type A..... |  |
| 912th Coast Artillery (Railway)..... |  |
| 57th Coast Artillery (155-mm gun)..... |  |
| 4th Battalion, 241st Coast Artillery, Harbor Defense, Type C..... |  |
| Command Post, Battery E, 248th Coast Artillery, Harbor Defense, Type B..... |  |

NOTE.—For Antiaircraft Artillery Symbols see chart 26.

Chart 31.—Examples—Coast Artillery Corps.




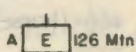
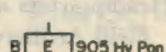

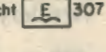
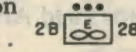
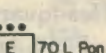

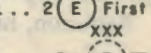
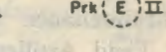
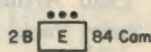
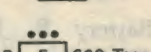
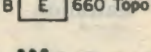
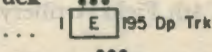
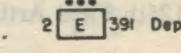
| | |
|---|---|
| Company A, 2d Engineer Combat Battalion..... |  |
| 8th Engineer Squadron..... |  |
| Company A, 16th Armored Engineer Battalion..... |  |
| Motorized Company, 126th Engineer Mountain Battalion..... |  |
| Company B, 905th Engineer Heavy Ponton Battalion..... |  |
| Parachute Company, 307th Airborne Engineer Battalion..... |  |
| 2d Platoon, Company B, 28th Engineer Aviation Battalion..... |  |
| 2d Platoon, 70th Engineer Light Ponton Company..... |  |
| Engineer Depot Number 2, First Army..... |  |
| Proposed Engineer Park, II Army Corps..... |  |
| 2d Platoon, Company B, 84th Engineer Camouflage Battalion..... |  |
| 2d Platoon, Photomapping Company, 660th Engineer Topographic Battalion..... |  |
| 1st Platoon, 195th Engineer Dump Truck Company..... |  |
| 2d Platoon, 391st Engineer Depot Company..... |  |
| Company B, 801st Engineer Water Supply Battalion..... |  |
| Second Boat Platoon, Company A, 531st Engineer Boat and Shore Regiment..... |  |
| Pioneer Platoon, Company D, 591st Engineer Boat and Shore Regiment..... |  |

Chart 32.—Examples—Corps of Engineers.

















| | | | |
|--|---------|---|-------------|
| Battery F, 2d Field Artillery Battalion..... | F |  | 2 |
| Headquarters Battery, 1st Division Artillery... | Hq |  | 1 Div |
| Ammunition Train, 82d Field Artillery Battalion (horse)..... | Am Tn |  | 82 H |
| Headquarters and Headquarters Battery, 4th Field Artillery Battalion (Pack)..... | Hq |  | 4 Pk |
| Gasoline Section, Service Battery, 54th Field Artillery (105-mm Howitzer, armored)... | ▼ Serv |  | 54 105 |
| 8th Field Artillery Battalion..... | |  | 8 |
| Headquarters and Headquarters Battery, 11th Field Artillery Brigade..... | Hq |  | 11 Brig |
| 2d Section, Battery B, 71st Field Artillery Battalion, horse-drawn..... | 2 B |  | 71 H-Dr |
| Maintenance Section, Battery C, 98th Field Artillery Battalion (75-mm Howitzer, Pack)..... | Maint C |  | 98 Pk 75 |
| Battery B, 1st Field Artillery Observation Battalion..... | B |  | 1 Obsn |
| 74th Field Artillery Brigade..... | |  | 74 |
| 125th Field Artillery Parachute Battalion..... | |  | 125 Pcht |
| 131st Glider Field Artillery Battalion..... | |  | 131 |
| 18th Field Artillery Group..... | |  | 18 |
| 10th Armored Field Artillery Group..... | |  | 10 |
| Forward Observation Post, Battery A, 1st Field Artillery Battalion..... | A |  | 1 |

Chart 33.—Examples—Field Artillery.
















| | | | |
|---|----------|---|----------|
| Headquarters Company, 29th Infantry..... | Hq |  | 29 |
| Intelligence and Reconnaissance Platoon, Headquarters Company, 19th Infantry..... | I & R |  | 19 |
| Maintenance Section, Transportation Platoon, Service Company, 5th Infantry..... | Maint |  | 5 |
| Kitchen and Baggage Train, 29th Infantry.. | Kl & Bag |  | 29 |
| 1st Platoon, Antitank Company, 4th Infantry.. | 1 AT |  | 4 37 |
| 1st Cannon Platoon, Headquarters Company 6th Infantry..... | 1 Cn |  | 6 105 |
| Ammunition and Pioneer Platoon, Headquarters Company, 3rd Battalion, 10th Infantry. | A & P 3 |  | 10 |
| Weapons Platoon, Company A, 14th Infantry. | Wpn A |  | 14 |
| 60-mm Mortar Section, Company B, 15th Infantry | B |  | 15 60 |
| Light Machine-Gun Section, Company E, 17th Infantry..... | E |  | 17 |
| Machine Gun Section, 2d Platoon, Company D, 20th Infantry..... | 2 D |  | 20 |
| 502d Parachute Infantry..... | |  | 502 Pcht |
| 22d Motorized Infantry..... | |  | 22 Mtr |
| Company A, 41st Armored Infantry..... | A |  | 41 |
| Observation Post, 81-mm Mortar Platoon, Company D, 23d Infantry..... | D |  | 23 81 |
| Proposed regimental Ammunition Supply Point, 27th Infantry..... | | | 27 |

Chart 34.—Examples—Infantry.

















| | | |
|--|--|---------|
| Headquarters and Service Company, 1st Medical Regiment..... | H & S  | 1 |
| Clearing Company D, 8th Medical Battalion.... | D  | 8 |
| 2d Platoon, Company A, 105th Medical Ambulance Battalion..... | 2 A  | 105 |
| 3d Platoon, Company A, 47th Medical Battalion Armored..... | 3 A  | 47 |
| Clearing Platoon, Veterinary Troop, 1st Medical Squadron..... | 3 Vet  XXXX | 1 |
| First Army Medical Depot..... |  First | |
| 1st Battalion Section, Medical Detachment, 175th Infantry..... | 1 Bn  | 175 Inf |
| Battalion Aid Station, 1st Battalion, 4th Infantry..... | 1  4 Inf | |
| Ambulance Loading Post..... |  ALP | |
| Collecting Station, 1st Division..... | XX  1 Coll | |
| 11th Evacuation Hospital..... | XXXX  11 Evac | |
| Clearing Station, I Corps..... | XXX  I Ctr | |
| Hospital Train..... |  | |
| Veterinary Clearing Station, First Army..... | XXXX  First Ctr | |
| 5th Platoon, 12th Veterinary Company..... | 5  | 12 |
| 901st Veterinary Evacuation Hospital..... | GHQ  901 Evac | |

Chart 35.—Examples—Medical Department.
















| | | |
|---|---|-----------------|
| 2d Ordnance Company, Heavy Maintenance (Army)..... |  | 2 Hv Maint |
| 3d Ordnance Company, Heavy Maintenance (Tank)..... |  | 3 Hv Maint (Tk) |
| Service Section, 28th Ordnance Company (Medium Maintenance)..... | Serv  | 28 M Maint |
| Magazine Platoon, 51st Ordnance Company (Ammunition)..... |  | 51 Am |
| 3d Platoon, 95th Ordnance Company, Railway Artillery Maintenance..... | 3  | 95 Maint (Ry) |
| Company B, 19th Ordnance Battalion (Armored)..... | B  | 19 |
| Headquarters and Supply Section, 105th Ordnance Company (Medium Maintenance)..... | H & S  | 105 M Maint |
| Service Platoon, 73d Ordnance Company (Depot)..... | Serv  | 73 Dep |
| 721st Ordnance Company (Aviation Air Base)..... |  | 721 Avn A B |
| 1st Ordnance Battalion (Medium Maintenance)..... |  | 1 M Maint |
| 1st Platoon, 104th Ordnance Evacuation Company..... | 1  | 104 Evac |
| 319th Ordnance Maintenance Company, Antiaircraft..... |  | 319 Maint (AA) |
| 7th Ordnance Maintenance Battalion, Motorized..... |  | 7 Maint (Mtz) |
| 61st Ordnance Maintenance Company, Airborne..... |  | 61 Maint |
| 419th Ordnance Platoon, 531st Engineer Special Brigade..... | 419  | 531 AE |

Chart 36.—Examples—Ordnance Department.















| | | |
|--|---|--------------|
| Class I Supply Point, Third Army, proposed..... | XXXX  | Third |
| Class III Railhead, Third Army, proposed..... | XXXX  | Third Rhd |
| Second Army Quartermaster Depot Number 1 (Class III)..... | XXXX 1  | Second |
| Third Army Quartermaster Depot No. 2..... | XXXX 2  | Third |
| III Corps Quartermaster Park, proposed..... | XXX  | III Prk |
| Truckhead, Class I Supply, Third Army, proposed..... | XXXX  | Third Trk Hd |
| Salvage Collecting Point, 3d Division, proposed..... | XX  | 3 Solv Coll |
| 105th Quartermaster Car Company..... |  | 105 Car |
| 2d Platoon, Company K, 48th Quartermas- ter Regiment (Truck)..... | 2 K  | 48 Trk |
| Pack Troop, 16th Quartermaster Squadron..... | E Pk  | 16 |
| 681st Quartermaster Battalion (Sterilization)..... |  | 681 Ster |
| Company A, 203d Quartermaster Battalion (Gasoline Supply)..... | A  | 203 |
| Company D, 94th Quartermaster Battalion (Bakery)..... | D  | 94 Bkry |
| Company A, Supply Battalion, 1st Armored Division..... | A Sup  | 1 |

Chart 37.—Examples—Quartermaster Corps.















| | | |
|--|--|------------------|
| Headquarters Platoon, Company A, 51st Signal Battalion..... | Hq A  | 51 |
| Radio Operation Platoon, Headquarters and Headquarters Company, 51st Signal Battalion..... | Rad Opn  | 51 |
| Teletypewriter Operation Platoon, Com- pany B, 57th Signal Battalion..... | Tt Opn B  | 57 |
| 59th Signal Construction Battalion..... |  | 59 Cons |
| Installation and Maintenance Platoon, Company B, 64th Signal Operation Battalion..... | IaM B  | 64 Opn |
| Command Post Section, Message Cen- ter Platoon, Headquarters Company, 59th Armored Signal Battalion..... | CP Msg Cen  | 59 |
| Radio Intelligence Platoon, Company A, 318th Signal Battalion (Aviation), Air Support Command..... | Rad Int A  | 318 |
| Teletypewriter Operation Platoon, 263d Signal Operation Company, Separate..... | Tt  | 263 Opn |
| 83d Signal Troop, 1st Cavalry Division..... | 83  | 1 |
| 93d Signal Company, 421st Engineer Special Brigade..... | 93  | 421 AE |
| 365th Airborne Signal Company..... |  | 365 |
| 20th Signal Fixed Radio Station Com- pany..... |  | 20 Fxd Rad Sta |
| 10th Signal Mobile Photographic Laboratory Unit..... |  | 10 Mbl Photo Lab |
| 3d Intercept Platoon, 318th Signal Radio Intelligence Company..... | 3  | 318 Rad Int |

Chart 38.—Examples—Signal Corps.

| | | | |
|--|---------|--|-------------|
| Mobile Direction Finding Section, Position Finding Platoon, 318th Radio Intelligence Company..... | Mbl | | 318 Rad Int |
| 1st Combat Platoon, 281st Signal Pigeon Company..... | 1 | | 281 Pgn |
| 105th Signal Photomail Company..... | | | 105 V |
| Headquarters and Headquarters Com- pany, Composite Battalion, 2d Signal Aircraft Warning Regiment..... | Hq Comp | | 2 AW |

Chart 38.—Examples—Signal Corps—Continued.

| | | | |
|---|---------|--|---------|
| Headquarters, 12th Tank Destroyer Group..... | | | 12 |
| Destroyer Platoon, Company A, 657th Tank Destroyer Battalion (Self propelled)... | Dest A | | 657(SP) |
| 827th Tank Destroyer Battalion (Towed)... | | | 827 (T) |
| Pioneer Platoon, Company D, 657th Tank Destroyer Battalion..... | Pion D | | 657 |
| 2d Reconnaissance Platoon, Company D, 657th Tank Destroyer Battalion..... | 2 Rcn D | | 657 |
| Operations Platoon, Headquarters Company, 12th Tank Destroyer Group..... | Opn | | 12 Gp |

Chart 39.—Examples—Tank Destroyer.

| | | | |
|--|----|--|-----------|
| Headquarters, Military Railway Service..... | | | MRS |
| 707th Railway Grand Division..... | | | 707 GD |
| 714th Railway Operating Battalion..... | | | 714 Ry Op |
| 753d Railway Shop Battalion..... | | | 753 Ry Sh |
| Headquarters and Headquarters Company, 12th Port..... | Hq | | 12 P |
| 194th Port Company..... | | | 194 P |
| Transportation Corps, Water Division..... | | | |
| Transportation Corps, Rail Division..... | | | |
| Transportation Corps, Highway Division..... | | | |
| Transportation Corps, Transit Storage Division..... | | | |
| Transportation Corps, Traffic Control Division..... | | | |
| Consolidating Station..... | | | |
| Holding and Reconsignment Point..... | | | |
| Port Agency..... | | | |
| Port of Embarkation..... | | | |

Chart 40.—Examples—Transportation Corps.

PART III

MILITARY ABBREVIATIONS

CHAPTER 10

LIST OF MILITARY ABBREVIATIONS

28. GENERAL. This chapter is concerned primarily with abbreviations found only in Army field work.

29. DATES AND HOURS. a. Dates. Dates are written with the day preceding the name of the month, thus: 15 Jan 1943.

b. Time. Time is indicated according to the 24-hour clock system, in four-digit numbers, the first two digits representing the hour, the second two digits the minutes.

Examples:

0001 means 1 minute after midnight.

0630 means 6:30 in the morning.

1500 means 3:00 in the afternoon.

c. Dates with hours. Dates with hour designations are written as follows:

0630, 15 Jan 1943.

A six digit number may be used, in which case the month is assumed to be the current one. The first two digits indicate the day of the month, and the last four the hour, as explained above. For example: 150630 means 6:30 in the morning of the 15th day of the current month.

d. Greenwich time. If the time is based on Greenwich rather than on local time, the letter "Z" is placed after the hour designation. For example:

0630Z

150630Z

30. LIST OF ABBREVIATIONS AND ITS USES. a.

Kinds of abbreviations. This manual contains abbreviations authorized for use in *field work*, such as field orders, field maps, and messages. For abbreviations used in administrative work, see AR 850-150. In addition to those on the following list the Army is also authorized to use common abbreviations that are generally accepted, such as ft for foot.

b. Capitalization. All abbreviations used in field work have a capitalized initial letter.

c. Punctuation. All abbreviations used are written without periods.

List

A

| | |
|--|-------------|
| acting | Actg |
| adjutant (1st staff section, brigades and lower units) | S-1 |
| administrative (orders or officer) | Adm (O) |
| advance | Adv |
| advance guard | Adv Gd |
| advance message center | Adv Msg Cen |
| aeronautic, aeronautical | Aero |
| agent | Agt |
| air | A |
| air base | AB |
| Airborne Command | A/B Comd |
| aircraft warning (company) | AW (Co) |
| air depot | AD |
| airdrome | Adrm |

| | |
|--|----------------------------|
| air field | AFld |
| air force | AF |
| air intelligence (section) | A Int (Sec) |
| airport | Aprt |
| airship | Ash |
| Air Support Command | ASPTC |
| Air Support Control | A Spt Contl or AS Contl |
| alternate target | Alt T |
| ambulance loading post | ALP |
| American Expeditionary Forces | AEF |
| ammunition (train) | Am (Tn) |
| ammunition supply point | ASP |
| amphibian truck (company) | Amph Trk (Co) |
| Amphibious Command | Amph Comd |
| animal-drawn | Anl-Dr |
| antiaircraft artillery | AAA |
| Antiaircraft Artillery Intelligence Service | AAAIS |
| antiaircraft balloon | AA/B |
| antimechanized | AMecz |
| antipersonnel | APers |
| Antisubmarine Command | Antisub Comd |
| appendix | App |
| approximate | Approx |
| armored car | Armd C |
| armored | Armd |
| armorers | Armr |
| armor-piercing | AP |
| Army Engineer Service | A Engr Serv |
| Army headquarters | AHQ |
| Army medical (laboratory) (serv- ice) | A Med (Lab) (Serv) |
| Army Postal Service | APS |
| Arsenal | Ars |
| artificer | Artif |

| | |
|--|-----------------------|
| artillery (brigade) (horse) (liaison officer) | Arty (Brig) (H) (LnO) |
| attack | Atk |
| automatic | Auto |
| automatic weapons | AW |
| aviation gasoline | Agas |
| aviation oil | Aoil |

B

| | |
|--------------------------------------|----------------|
| baggage | Bag |
| bakery | Bkry |
| balloon | Bln |
| Balloon Barrage Training Center | BBTC |
| barrage balloon (battalion) | Bar Bln (Bn) |
| base depot company | BD Co |
| base point | BP |
| basic | Bsc |
| Basic Field Manual | BFM |
| battalion (combat train) | Bn (C Tn) |
| battalion adjutant | Bn S-1 |
| battalion beachhead | BBH |
| battalion intelligence officer | Bn S-2 |
| battalion landing team | BLT |
| battalion plans and training officer | Bn S-3 |
| battalion supply officer | Bn S-4 |
| battery commander | BC |
| battle reconnaissance | B Rcn |
| bench mark | BM |
| bicycle | Bcl |
| bill of lading | B/L |
| bivouac | Biv |
| blacksmith | Blksm |
| boat | Bt |
| boiler and smith shop company | Blr & Sm Sh Co |
| bomber | Bmr |
| bomb line | BL |

| | |
|------------------------------------|----------------|
| bomb service truck | BSTrk |
| boundary | Bd |
| bridge train (heavy) (light) | Br Tn (Hv) (L) |
| brigade | Brig |
| brigade adjutant | Brig S-1 |
| brigade intelligence officer | Brig S-2 |
| brigade plans and training officer | Brig S-3 |
| brigade supply officer | Brig S-4 |
| brigade headquarters | BHQ |
| Browning automatic rifle | BAR |
| bugler | Bglr |
| bulk storage petroleum | BSpet |

C

| | |
|-------------------------------|--------------|
| camouflage | Cam |
| cannon (platoon) | Cn (Plat) |
| Carbine | Cbn |
| carpenter | Cptr |
| car repair company | Car Rep Co |
| cemetery | Cem |
| center, central | Cen |
| central interpretation unit | CIU |
| character | Char |
| chauffeur | Cfr |
| chemical agent, nonpersistent | G-NP |
| chemical agent, persistent | G-P |
| chemical mortar, 4.2-inch | 4.2 Cml Mort |
| chief | C |
| chief of | Cof |
| Chief of Transportation | CofT |
| Chief Signal Officer | CSigO |
| civil (or civilian) | Civ |
| Class I supplies | Cl I Sup |
| clearing company | Clr Co |
| close-in | CL |
| clothing | Clo |

| | |
|--|----------------------|
| coast defense | CD |
| coastal frontier | CF |
| collecting (company) (point) (station) | Coll (Co) (Pt) (Sta) |
| combat (car) (zone) | C (Car) (Z) |
| combat command | CC |
| combat crew | CCr |
| combat group | C GP |
| combat team | CT |
| command and navigation boat | C&N Bt |
| commercial | Coml |
| commissary | Comm |
| communication | Com |
| communications zone | Com Z |
| composite | Comp |
| computer | Cmptr |
| concentration | Conc |
| consolidating station | C Sta |
| construction | Cons |
| contact party | Con Pty |
| continuous wave | CW |
| control | Contl |
| convalescent (hospital) | Conv (Hosp) |
| copilot | CoP |
| counterreconnaissance | C-Rcn |
| crew chief | CrC |
| crossroads | CR |
| current | Cur |

D

| | |
|------------------------------|---------------|
| dead reckoning | D/R |
| delivered or delivery | Delv |
| demolition (squad) (officer) | Dml (Sqd) (O) |
| depot | Dep |
| deserted or desertion | Des |
| detail | Dtl |

| | |
|---------------------------------|--------|
| direction finding | D/F |
| director | Dir |
| direct support | D/S |
| distant | Ds |
| distant surveillance section | DS Sec |
| district engineer officer | DEO |
| district transportation officer | DTO |
| division ammunition office | DAO |
| division beachhead | DBH |
| division headquarters | DHQ |
| division service area | DSA |
| draftsman | Drftm |
| drawn | Dr |
| driver | Dvr |
| Duty officer | DO |

E

| | |
|-----------------------------------|--------------------|
| electrical or electrician | Elec |
| element | Elm |
| eliminate | Elim |
| embarkation | Emb |
| emplacement | Empl |
| enemy aircraft | E/A |
| engine house company | Eng Hse Co |
| entrucking point | EP |
| erecting and machine shop company | Erect & Mach Sh Co |
| estimated time arrival | ETA |
| evacuation | Evac |
| exclusive | Excl |

F

| | |
|----------------------|-----------|
| field laboratory | F Lab |
| field remount depot | F Rmt Dep |
| field train | F Tn |
| fighter | Fi |
| fighter control area | FCA |

| | |
|-----------------------------|---------|
| film strip | FS |
| filter | Fil |
| filter center | Fil Cen |
| final protective line | FPL |
| fire-direction center | Fdc |
| first lieutenant | 1st Lt |
| fixed | Fxd |
| flash ranging | FR |
| forward interpretation unit | FIU |
| from | Fr |
| furnished | Furn |

G

| | |
|---|------------------|
| garage | Gar |
| gas, nonpersistent | G-NP |
| gas, persistent | G-P |
| gasproof | G-Pf |
| general dispensary | Gen Disp |
| general hospital | Gen Hosp |
| general service schools | GSS |
| general service | Gen Serv |
| general support | G/S |
| Geological Survey | Geol Surv |
| glider | Gli |
| grand division (railway) | Gr Div (Ry) |
| graves registration (battalion) (company) | Gr Reg (Bn) (Co) |
| ground | Grd |
| ground control interception | GCI |
| groupment | Gpmt |
| gun | G |

H

| | |
|---------------------|-------|
| half-track | H-Trk |
| harbor | Har |
| Harbor Boat Service | HBS |

| | |
|---|--|
| harbor craft (company)..... | Har Cft (Co) |
| harbor defense command..... | HDC |
| headquarters..... | Hq |
| headquarters and service (battery company) (troop) | H&S (Btry) (Co) (Tr) or Hq & Serv (Btry) (Co) (Tr) |
| heavy weapons company..... | Hv Wpn Co |
| highway..... | Hwy |
| highway transportation officer..... | HTO |
| holding and reconignment point..... | H & RP |
| horizontal control operator..... | HCO |
| horse..... | H |
| horse-drawn..... | H-Dr |
| hospital..... | Hosp |

I

| | |
|---------------------------|--------------|
| Impregnating..... | Impreg |
| Include..... | Incl |
| inclusive..... | Incl |
| indicated air speed..... | IAS |
| information..... | Info |
| information center..... | IC |
| initial beachhead..... | IBH |
| initial point..... | IP |
| instrument..... | Inst |
| intelligence..... | Int |
| intelligence officer..... | S-2 or Int O |
| interceptor..... | I |
| interpreter..... | Intpr |

J

| | |
|-----------|----|
| join..... | Jn |
|-----------|----|

K

| | |
|-------------|----|
| killed..... | Kd |
|-------------|----|

L

| | |
|---------------------------------------|--------|
| labor..... | Lbr |
| laboratory..... | Lab |
| landing craft, mechanized..... | LCM |
| landing craft, personnel..... | LCP |
| landing craft, vehicle..... | LCV |
| landing craft, vehicle-personnel..... | LCVP |
| landing craft, tank..... | LCT |
| land mine..... | LM |
| last resort target..... | LRT |
| legislative..... | Leg |
| liaison..... | Ln |
| lieutenant colonel..... | Lt Col |
| lieutenant general..... | Lt Gen |
| light machine gun..... | LMG |
| lights..... | Lgts |
| linemen..... | Lmn |
| line of departure..... | LD |
| lines of communication..... | LC |
| long wheelbase..... | LWB |
| low altitude..... | LA |

M

| | |
|-----------------------------------|---------------|
| machinist..... | Machst |
| main line of resistance..... | MLR |
| main supply road..... | MSR |
| maintenance of equipment..... | Maint of E |
| maintenance of way..... | Maint of W |
| major general..... | Maj Gen |
| material..... | Mat |
| medium (tank)..... | M (Tk) |
| meteorologist..... | Metgst |
| military attaché..... | Mil Att or MA |
| Military Railway Service..... | MRS |
| minimum altitude..... | Min Alt |
| mobile..... | Mbl |
| Mobilization Training Program ... | MTP |

| | |
|--------------------------|--------|
| motorcyclist | MtrcIt |
| motor gasoline | Mgas |
| motor oil | Moil |
| motor-tricycle | Mtricl |
| move | Mv |
| movement | Mvmt |
| musician | Mus |

N

| | |
|--------------------------------|---------|
| navigation (officer) | Nav (O) |
| net control station | NCS |
| not yet returned | NYR |
| number | No |

O

| | |
|--------------------------------------|-------|
| observation post | OP |
| officer in charge | O/C |
| one-pounder | 1 Pdr |
| operation | Opn |
| operator | Op |
| order, orders | O |
| orderly | Odly |
| outpost line | OPL |
| outpost line of resistance | OPLR |

P

| | |
|--|-----------|
| parachutist | Pchst |
| park | Prk |
| party | Pty |
| patrol boat | PAT Bt |
| photograph or photographic | Photo |
| pigeon | Pgn |
| pioneer and demolition section | P & D Sec |
| plans and training officer | S-3 |
| platoon | Plat |
| point | Pt |
| ponton | Pon |
| portable | Ptbl |

| | |
|---------------------------------------|------------|
| port agency | PA |
| port of debarkation | PD |
| port transportation officer | PTO |
| postal (section) | Post (Sec) |
| primary target | PT |
| principal | Princ |
| prisoner | Pris |
| proving ground | PG |

Q

| | |
|--|------|
| quartermaster supply officer | QMSO |
|--|------|

R

| | |
|--|----------------|
| radio and panel section | R & P Sec |
| radio detector equipment | RADAR |
| radio intelligence (company) | Rad Int (Co) |
| railhead | Rhd |
| railhead officer | RHO |
| railroad | RR |
| railroad transportation officer | RTO |
| Railway Grand Division | Ry GD |
| railway traffic officer | R Traf O |
| range officer | Rg O |
| ration distributing point | RDP |
| railway shop battalion (Diesel) | Ry Sh Bn (Dsl) |
| rear (echelon) (guard) | Rr (Ech) (Gd) |
| received | Recd |
| reconnaissance (long range) (medium range) | Rcn (LR) (MR) |
| reconstruction park | Recons Prk |
| recreation | Rec |
| reduce or reduced | Rd |
| refrigeration | Ref |
| regimental adjutant | Regtl S-1 |
| regimental beachhead | RBH |
| regimental headquarters | RHQ |

| | |
|---|------------------|
| regimental intelligence officer | Regtl S-2 |
| regimental orders | RO |
| regimental plans and training officer | Regtl S-3 |
| regimental reserve line | RRL |
| regimental supply officer | Regtl S-4 or RSO |
| regulating (station) | R (Sta) |
| reinforced | Reinf |
| rejoined | Rejd |
| release point | Rel Pt |
| rendezvous point | RDV Pt |
| repair shop company | Rep Sh Co |
| replacement | Repl |
| report, reporting | Rpt |
| reproduction | Repro |
| rescinded | Resc |
| Reserve | Res |
| retired | Ret |
| rifle (Company) | R (CO) |
| road bend | RB |
| road junction | RJ |
| road space | RS |
| rocket | Rkt |
| rocketeer | Rktr |
| rocket launcher | RL |

S

| | |
|--|---------------------|
| sales Commissary (Battalion) (Company) | Sales Comm (Bn)(Co) |
| salvage | Salv |
| sanitary | Sn |
| schedule | Scd |
| scout | Sct |
| scout car | Sct C |
| searchlight | SL |
| second lieutenant | 2d Lt |

| | |
|--|-------------|
| self-propelled | SP |
| self-propelled mount | SPM |
| semiautomatic rifle | SAR |
| semimobile | Sem |
| sentence | Sent |
| sentenced | Sentd |
| shipment | Shipt |
| shipping ticket | S/T |
| shop (battalion) | Sh (Bn) |
| short wheelbase | SWB |
| signal | Sig |
| signal operations instructions | SOI |
| small arms | SA |
| small boat (company) | S BT (Co) |
| sound and flash (battalion) | S&F (Bn) |
| sound locator | S-L |
| sound ranging | SR |
| specialist | Specl |
| special messenger | Sp Msgr |
| special troops | Sp Trs |
| staff | Stf |
| staging area (company) | St Ar (Co) |
| stenographer (s) | Steno |
| sterilization | Ster |
| stevedore | Stev |
| straggler line | Strag L |
| submarine | Subm |
| supply | Sup |
| supply point | SP |
| support | Spt |
| support line | SL |
| surgeon | Surg |
| surgical (hospital) | Surg (Hosp) |
| surrender or surrendered | Surr |
| survey | Surv |

switchboard..... Sb
 switching central..... Sw C

T

tactical..... Tac
 Tank Destroyer..... TD
 technical..... Tech
 telegram..... Telg
 telegraph printer..... Tgp
 teletypewriter..... Tt
 teletypewriter center..... Ttc
 theater headquarters..... THQ
 time lengths..... TL
 toolmaker..... Tlmkr
 topographic, topographical..... Top or Topo
 torpedo..... Tor
 tractor..... Trac
 tractor-drawn..... Tr-Dr
 traffic..... Traf
 traffic control station..... TCS
 train commander..... Tn Co
 training circular..... TC
 training film..... TF
 training unit..... TU
 transit storage..... TS
 transport, transportation..... T or Trans
 transportation company..... T Co
 trench mortar..... T Mort
 troop (s)..... Tr (s)
 troop carrier (squadron)..... Tr Carr (Sq)
 truck-drawn..... Trk-Dr
 truck head..... Trk Hd

U

unit of fire..... U/F
 Unit Training Center..... UTC

United States Army Transport.... USAT

V

vertical control operator..... VCO
 very low altitude..... VLA
 visual..... Vis
 volunteer..... Vol

W

warrant..... Wrnt
 warrant officer..... WO
 water supply..... W Sup
 water tank (battalion) (train)..... W Tk (Bn) (Tn)
 weapon carrier..... Wpn Carr
 weapons (troop) (platoon)..... Wpn (Tr) (Plat)
 welder..... Wldr
 winch..... Wn
 wrecker..... Wkr

Z

zone of fire..... Z/F
 zone transportation officer..... ZTO

APPENDIX

LIST OF REFERENCES

| | |
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| Maps and Mapping | AR 300-15 |
| Authorized Abbreviations and Symbols for Military Records and Administrative Special Orders Except Field Orders and Messages | AR 850-150 |
| Coast Artillery, Reference Data | FM 4-155 |
| Engineer, Reference Data | FM 5-35 |
| Obstacle Technique | FM 5-30 |
| Carpentry | TM 5-226 |
| Topographic Drafting | TM 5-230 |
| Field Artillery, Reference Data | FM 6-130 |
| Medical Department, Reference Data | FM 8-55 |
| Reference Data | TM 11-462 |
| Armored Force Field Manual, Tactics and Technique | FM 17-10 |
| List of Publications for Training | FM 21-6 |
| Elementary Map and Aerial Photograph Reading | FM 21-25 |
| Advanced Map and Aerial Photograph Reading | FM 21-26 |
| Sketching | FM 21-35 |
| Soldier's Handbook | FM 21-100 |
| Infantry Drill Regulations | FM 22-5 |
| Signal Communication | FM 24-5 |
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| Foreign Conventional Signs and Symbols | FM 30-22 |

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