

Map Room

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1957

# SYMBOLS FOR MEDIUM SCALE MAPS

## NO REDUCTION

EDITION 2-AMS  
JULY 1957

CORPS OF ENGINEERS, U. S. ARMY  
ARMY MAP SERVICE

Washington 25, D. C.

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
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# SYMBOLS FOR MEDIUM SCALE MAPS

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## INTRODUCTION

This publication establishes the design and weights and gauges of symbols, and the type styles and sizes to be used in engraving and drafting standard topographic maps prepared by the Army Map Service, for publication at the scale of 1:250,000. Measurements for compilation, engraving and drafting are given for no reduction size (1:250,000 on face of map, 1:1 on backup). Type sizes are given for no reduction operations.

When intermediate compilation is at other than no reduction size, proportionate changes shall be made to the weights and gauges in order that the symbols appearing on the final compilation may approximate very closely the no reduction sizes.

During compilation stages, strict adherence to symbol specifications shall not be required. Line weights and gauges may be varied 10% plus or minus from prescribed specifications, providing, the modification will not create a registration problem in color separation, distort the shape or orientation of a feature, or create doubt as to what a symbol represents.

In using the symbols specified, strict adherence to the prescribed weights and gauges must be maintained. In the selection of a type size for a feature, when a range of sizes is indicated in this manual, the draftsman shall exercise proper judgement to obtain a gradation in size which will be in proportion to the relative importance of the feature on the map being prepared.

For certain symbols and elsewhere on the compilation, areas may be outlined with yellow colored ink and labelled with descriptive notes. It is to be noted that in the drafting specifications for these symbols the outlines are omitted. These outlines and descriptive notes are for the draftsman's information and are not to appear on the printed map.

When additional symbols or modifications are required, instructions will be issued in supplementary instructions for the assignment.

All dimensions are given in terms of inches. Dimensions given for widths of symbols involving parallel lines, are to be interpreted as overall measurements—exception is spacing between railroad crossties; measurements between crossties indicate required clear space.



Map. Room  
Gift  
Sheet  
11.1.60


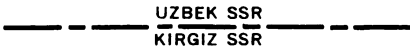

	PLACE NAMES: UNITED STATES DEVELOPED AREAS*	Example	Specifications
101	Over 500,000	BALTIMORE	18 PT. SPARTAN MEDIUM ROMAN CAPS
102	100,000 to 500,000	PROVIDENCE	14 PT. SPARTAN MEDIUM ROMAN CAPS
103	25,000 to 100,000	CUMBERLAND	12 PT. SPARTAN MEDIUM ROMAN CAPS
104	5,000 to 25,000	West Warwick	10 PT. SPARTAN MEDIUM ROMAN C & L
105	1,000 to 5,000	St Marys	8 PT. SPARTAN MEDIUM ROMAN C & L
106	Less than 1,000	Hodson	6 PT. LIGHTLINE NO. 4 C & L

PLACE NAMES:  
FOREIGN  
DEVELOPED AREAS\*

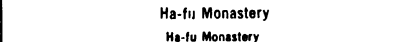

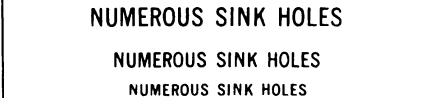
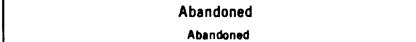
107	First importance	LONDON	18 PT. SPARTAN MEDIUM ROMAN CAPS †
108	Second importance	RIGA	14 PT. SPARTAN MEDIUM ROMAN CAPS †
109	Third importance	HEPBURN	12 PT. SPARTAN MEDIUM ROMAN CAPS †
110	Fourth importance	Finley	10 PT. SPARTAN MEDIUM ROMAN C & L †
111	Fifth importance	Hodson	8 PT. SPARTAN MEDIUM ROMAN C & L †

\*Where feasible, populated places will be classified according to available population data.

†Alternate names shall appear in parentheses below or following the primary name in the same style type, but using the next smaller size.

	POLITICAL DIVISIONS <sup>†</sup> AND RESERVATIONS	Example	Specifications
112	Country name along boundaries		6 PT. NEWS GOTHIC CAPS
113	Intercolonial, interterritorial or primary administrative names along boundaries		6 PT. NEWS GOTHIC CAPS
114	National or state parks, forests, reservations, etc.		6-12 PT. NEWS GOTHIC CAPS, DEPENDING UPON SIZE OF AREA. EXTEND IF SPACE PERMITS

### BUILDINGS, LANDMARKS, <sup>\*</sup> PUBLIC WORKS, NOTES

115	Abandoned canals, aerial cableways, airfields, aqueducts, bridges, causeways, conveyor belts, dams, ferries, fords, forts, landmark buildings, located or landmark objects, mines, mining areas, missions, monasteries, pipelines, ruins, submerged breakwaters, tanks, telephone-telegraph lines, tunnels, underground aqueducts, underground pipelines, walls, wells (oil, gas, salt, etc.) and similar features		** 6 PT. NEWS GOTHIC CONDENSED C & L. 5 PT. TYPE MAY BE USED IN CONGESTED AREAS
116	Railroads, roads, trails		6 PT. COPPER GOTHIC ITALIC NO. 51
117	Notes covering large areas		** 6-10 PT. NEWS GOTHIC CONDENSED CAPS, DEPENDING UPON SIZE OF AREA. EXTEND IF SPACE PERMITS
118	Notes covering small areas, or for spot features		** 5-6 PT. NEWS GOTHIC CONDENSED C & L. USE 5 PT. TYPE ONLY IN CONGESTED AREAS

\* Type pertaining to features appearing on drainage drawing will print blue

<sup>†</sup> When sheet falls entirely within one primary division, letter space name across center of land area, in 10-18 Pt. Century Schoolbook Caps.

\*\* Descriptive type in parenthesis (accompanying proper names) will always be shown in lower case type.

	FORESHORE AND OFFSHORE FEATURES	Example	Specifications
119	Foreshore flats, reefs, rocky ledges	Coral reef	6 PT. NEWS GOTHIC CONDENSED C & L <sup>†</sup>

#### DRAINAGE FEATURES\*

120	Large bodies of open water	<p><i>TLANTIC C</i></p> <p><i>ATLANTIC O</i></p> <p><i>L A K E E R I E</i></p> <p><i>L A K E E R I E</i></p>	14-30 PT. CLEARFACE ITALIC CAPS EXTENDED
121	Medium size bodies of open water	<p><i>L A K E E R I E</i></p> <p><i>L A K E E R I E</i></p> <p><i>L A K E E R I E</i></p>	10-14 PT. CLEARFACE ITALIC CAPS EXTEND IF SPACE PERMITS
122	Small bodies of open water	<p><i>KITTY HAWK BAY</i></p> <p><i>KITTY HAWK BAY</i></p> <p><i>KITTY HAWK BAY</i></p>	5-8 PT. CLEARFACE ITALIC CAPS EXTEND IF SPACE PERMITS
123	Smaller bodies of open water, ponds, lakes, inlets, small bays, etc.	<p><i>Talsch Lake</i></p> <p><i>Talsch Lake</i></p>	6-8 PT. CLEARFACE ITALIC C & L <sup>†</sup>

\*Alternate names shall appear in parentheses below or following the primary name in the same style type, but using the next smaller size. On sheets of sparse detail, where a choice of size of type is allowed for an item, preference shall be given to a larger size.

<sup>†</sup>5 pt. in congested areas

	DRAINAGE FEATURES* (CONTINUED)	Example	Specifications
124	Large rivers	<i>HUDSON RIVER</i> <i>HUDSON RIVER</i>	10-12 PT. CLEARFACE ITALIC CAPS EXTEND IF FEATURE IS LONG **
125	Medium width rivers	<i>HUDSON RIVER</i>	10 PT. CLEARFACE ITALIC CAPS EXTEND IF FEATURE IS LONG **
126	Narrow double line streams	<i>BLUE RIVER</i> <i>BLUE RIVER</i>	6-8 PT. CLEARFACE ITALIC CAPS **
127	Large single line streams	<i>Blue River</i>	10 PT. CLEARFACE ITALIC C & L
128	Medium size single line streams	<i>Blue River</i> <i>Blue River</i>	8-10 PT. CLEARFACE ITALIC C & L
129	Small single line streams	<i>Blue River</i> <i>Blue River</i>	6-8 PT. CLEARFACE ITALIC C & L
130	Large swamps and similar features	<i>DISMAL SWAMP</i> <i>DISMAL SWAMP</i> <i>DISMAL SWAMP</i>	10-14 PT. CLEARFACE ITALIC CAPS EXTEND IF SPACE PERMITS
131	Medium size swamps and similar features	<i>DISMAL SWAMP</i> <i>DISMAL SWAMP</i>	8-10 PT. CLEARFACE ITALIC CAPS EXTEND IF FEATURE IS LONG
132	Small swamps and similar features	<i>Blue Swamp</i> <i>Blue Swamp</i>	6-8 PT. CLEARFACE ITALIC C & L
133	Aqueducts, canals, cranberry bogs, falls, peatbogs, rapids, springs, water holes, and similar features and notes	Cranberry bog  Rapids	5-6 PT. NEWS GOTHIC CONDENSED C & L. USE 5 PT. TYPE ONLY IN CONGESTED AREA †

\*Alternate names shall appear in parentheses below or following the primary name in the same style type, but using the next smaller size. On sheets of sparse density, where a choice of size of type is allowed for an item, preference shall be given to the larger size.

†Proper names for these features shall be shown in 6 pt. Clearface Italic C and L.

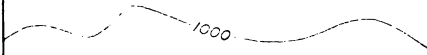
\*\* Type sizes for double line streams will not be graduated when the stream, extending across the sheet, maintains a fairly constant width.



	RELIEF FEATURES*	Example	Specifications
134	Large regional features	<p><i>DIRONDAC</i></p> <p><i>ADIRONDACK</i></p> <p><i>ADIRONDACK</i></p>	14-24 PT. SPARTAN MEDIUM ITALIC CAPS. EXTENDED
135	Large single features, approximately 5 to 8 inches	<p><i>ADIRONDACK</i></p> <p><i>ADIRONDACK</i></p>	† 12-14 PT. SPARTAN MEDIUM ITALIC CAPS. EXTENDED IF SPACE PERMITS
136	Features 1.5 to 5 inches long	<p><i>ADIRONDACK</i></p> <p><i>ADIRONDACK</i></p> <p><i>ADIRONDACK</i></p>	† 8-12 PT. SPARTAN MEDIUM ITALIC CAPS. EXTENDED IF SPACE PERMITS
137	Features less than 1.5 inches	<p><i>ADIRONDACK</i></p> <p><i>ADIRONDACK</i></p>	† 6-8 PT. SPARTAN MEDIUM ITALIC CAPS
138	Peaks, tops, knobs and similar features	<p><i>PIKES PEAK</i></p> <p><i>PIKES PEAK</i></p>	† 6-8 PT. SPARTAN MEDIUM ITALIC CAPS
139	Gaps, hollows, shoals, river beds, glaciers, small points, small islands, passes and similar features	<p><i>Bald Point</i></p> <p><i>Bald Point</i></p>	† 6-8 PT. SPARTAN MEDIUM ITALIC C & L
140	Area identifications, large	<p><i>LAVA</i></p> <p><i>LAVA</i></p>	10-12 PT. NEWS GOTHIC CONDENSED CAPS. EXTENDED IF SPACE PERMITS

\*Alternate names shall appear in parentheses below or following the primary name in the same style type, but using the next smaller size. On sheets of sparse detail, where a choice of size of type is allowed for an item, preference shall be given to a larger size.

†Label glaciers on Drainage copy for printing in blue

	RELIEF FEATURES (CONTINUED)	Example	Specifications
141	Area identifications, medium size	KARST KARST	6-8 PT. NEWS GOTHIC CONDENSED CAPS. EXTENDED IF SPACE PERMITS
142	Area identifications, small	Lava Lava	5-6 PT. NEWS GOTHIC CONDENSED C & L. USE 5 PT. TYPE ONLY IN CON- GESTED AREAS
143	Asphalt lakes, boulders, caves, islands (not named), etc.	Boulder Cave	5-6 PT. NEWS GOTHIC CONDENSED C & L. USE 5 PT. TYPE ONLY IN CON- GESTED AREAS
144	Contour values		6 PT. AMS SLOPE GOTHIC
145	Spot elevations, normal	'792	6 PT. AMS SLOPE GOTHIC *
146	Spot elevations, highest in general area	'1273	8 PT. AMS SLOPE GOTHIC *

\* Spot elevations which will fall in a lake, glacier or snowfield area, will be shown on drainage overlay for printing in blue.

1:1 SIZE

NO REDUCTION

	BACK-UP TOWN PLAN SYMBOLS***	COMPILATION		DRAFTING	
		Symbol	Specifications	Symbol	Specifications
201	Primary through route				
202	Secondary route or principal street				
203	Railroad, single track				
204	Railroad, multiple track				
205	Railroad yard				
206	Overpass				
207	Traffic circle				
208	Cloverleaf				
209	Bridge or viaduct, road				
210	Bridge or viaduct, railroad				
211	Tunnel, road				
211A	Main roads or express highways under construction				

\*Omit crossties within extent of the symbol.

\*\*Use AMS Cut 132A to indicate one-way routes.

\*\*\*Any required symbol which is not given in Back-up Symbols should be taken from symbols specified for face of map.

†Draft to plotted scale

	BACK-UP TOWN PLAN SYMBOLS (CONTINUED)	1:1 SIZE		NO REDUCTION	
		COMPILATION		DRAFTING	
		Symbol	Specifications (Use Drafting Specifications)	Symbol	Specifications
212	Tunnel, railroad				
213	Ferry				
214	Dam				
215	Large masonry dam				
216	Landmark building not exceeding .025" x .025"				
217	Landmark building exceeding .025" x .025"				
218	School not exceeding .025" x .025"				
219	School exceeding .025" x .025"				
220	Church not exceeding .025" x .025"				
221	Church exceeding .025" x .025"				
222	Christian shrine (foreign)				



	BACK-UP TOWN PLAN SYMBOLS (CONTINUED)	1:1 SIZE		NO REDUCTION	
		COMPILATION		DRAFTING	
		Symbol	Specifications (Use Drafting Specifications)	Symbol	Specifications
223	Non-Christian house of worship not exceeding .025" x .025" (foreign)				
224	Non-Christian house of worship exceeding .025" x .025" (foreign)				
225	Non-Christian shrine (foreign)				
226	Mosque not exceeding .025" x .025" (foreign)				
227	Mosque exceeding .025" x .025" (foreign)				
228	Moslem shrine				
229	Pagoda				
230	Stadium		 HAND DRAFT OR USE ZIP-A-TONE 30		 HAND DRAFT OR USE ZIP-A-TONE F-10
231	Ruins not exceeding .025"x.025"				
232	Ruins exceeding .025"x.025"				

		1:1 SIZE	NO REDUCTION
BACK-UP TOWN PLAN SYMBOLS (CONTINUED)	COMPILATION		DRAFTING
	Symbol	Specifications (Use Drafting Specifications)	Symbol Specifications
233 Racetrack			
234 Pier, dock, wharf, not exceeding .02" in width			
235 Pier, dock, wharf, exceeding .02" in width			
236 Tank: oil, gas, vinegar, water, etc.	• Oil	 FREEHAND LETTERING	• Oil .032 6 PT. SPARTAN MEDIUM ITALIC C & L
237 Well: oil, gas, excluding water	◦ Oil	 FREEHAND LETTERING	◦ Oil .032 --- .004 6 PT. SPARTAN MEDIUM ITALIC C & L
238 Located object: tower, monument, etc.	◦ Tower	 FREEHAND LETTERING	◦ Tower .008 .04 --- .004 6 PT. SPARTAN MEDIUM ITALIC C & L
239 Mine or quarry		HAND DRAFT	 AMS CUT NO. 35
240 National or Federal route marker		HAND DRAFT	 NUMBERS 1-50, AMS CUT NO. 29A NUMBERS 51-100, AMS CUT NO. 28A NUMBERS 101-150, AMS CUT NO. 27A NUMBERS 151-200, AMS CUT NO. 26A NUMBERS 201 AND HIGHER AMS CUT NO. 25A
241 State, province or equivalent route marker		HAND DRAFT	 NUMBERS 1-50, AMS CUT NO. 24A NUMBERS 51-100, AMS CUT NO. 23A NUMBERS 101-150, AMS CUT NO. 22A NUMBERS 151-200, AMS CUT NO. 21A NUMBERS 201-250, AMS CUT NO. 20A NUMBERS 251-300, AMS CUT NO. 19A NUMBERS 301-400, AMS CUT NO. 260A NUMBERS 401-500, AMS CUT NO. 261A NUMBERS 501-600, AMS CUT NO. 262A NUMBERS 601-700, AMS CUT NO. 263A NUMBERS 701-800, AMS CUT NO. 264A NUMBERS 801-900, AMS CUT NO. 265A



	BACK-UP TOWN PLAN SYMBOLS (CONTINUED)	1:1 SIZE		NO REDUCTION	
		Symbol	Specifications (Use Drafting Specifications)	Symbol	Specifications
242	Outlined features: air strips, parks, cemeteries, etc.		 FREEHAND LETTERING		 6 TO 12 PT. SPARTAN MEDIUM ITALIC CAPS OR C & L
243	Reservation boundary				
244	Built-up area outline				
245	Shoreline and principal drainage †		 FREEHAND LETTERING TAPER		 TAPER **
246	Reservoir	 Toby Reservoir	 PLOTTED TO SCALE	 Reservoir	 6 PT. SPARTAN MEDIUM ITALIC C & L ZIP-A-TONE A4 PLOTTED TO SCALE
247	Open water area				 ZIP-A-TONE A4 OR SOLID *
248	Built-up area tint ***		 ***		 DRAFT AS SOLID †
248A	Narrow gauge railroad, single track				 .20 .005 .015 .007
248B	Narrow gauge railroad, multiple track				 .20 .02 .005 .015 .007

\*When drafted as solid, screen with AMS No. 2 in reproduction.  
†Screen with AMS No. 1 in reproduction.  
\*\* Break all drainage at bridge casings.  
\*\*\* Draft outline .005" augmented by light orange tint .15" wide.  
† Use symbol 312 for intermittent drainage.

	TYPE FOR BACK-UP PLANS*	Example	Specifications
249	Sheet name	CANTON, OHIO AND VICINITY	12-18 PT. CASLON OPENFACE  ONE SIZE SMALLER THAN SHEET NAME (SAME STYLE)
250			
251	Suburban identification	Walbrook Walbrook	6-8 PT. NEWS GOTHIC CONDENSED C & L
252	Roads and streets	BROAD STREET	6 PT. LIGHT COPPER GOTHIC CON- DENSED NO. 31
253	Bridges, tunnels	WASHINGTON BRIDGE	6 PT. LIGHT COPPER GOTHIC CON- DENSED NO. 31
254	Railroads, canals	PENNSYLVANIA	6 PT. LIGHT COPPER GOTHIC CON- DENSED NO. 31
255	Airfields, buildings (churches, land- mark, schools, etc.), dams, dock and wharf areas, located objects, mon- uments, race tracks, railroad yards, stations	Pentagon Building	6 PT. SPARTAN MEDIUM ITALIC C & L
256	Parks, reservations	CARROL PARK Carrol Park	6-12 PT. SPARTAN MEDIUM ITALIC CAPS OR C&L
257	Islands, points, etc.	STONE ISLAND Stone Island	6-12 PT. SPARTAN MEDIUM ITALIC CAPS OR C&L
258	Large bodies of open water	CHESAPEAKE BAY	8-10 PT. CLEARFACE ITALIC CAPS EXTEND IF SPACE PERMITS.

\*Alternate names shall appear in parentheses below or following the primary name in the same style type, but using the next smaller size. On sheets of sparse density, where a choice of size of type is allowed for an item, preference shall be given to the large size.



	TYPE FOR BACK-UP PLANS (CONTINUED) *	Example	Specifications
259	Rivers, streams, small bodies of open water, etc.	<p><b>BLUE RIVER</b></p> <p><i>Blue River</i></p> <p><i>Blue River</i></p>	6-10 PT. CLEARFACE ITALIC CAPS OR C & L
260	Road destinations	 <p>WALDORF 14 MI.</p>	6 PT. COPPER GOTHIC ITALIC NO. 51 USE AMS CUT 132A
261	Scale notes	<p>Scale 1:75,000</p> <p>Scale 1:25,000 (Approx)</p>	8 PT. NEWS GOTHIC C & L
262	Bar scale type	<p>½      0      Mile</p>	6 PT. NEWS GOTHIC C & L. — 6 PT. SPARTAN MEDIUM ROMAN FOR FRACTION
263	North direction and arrow		8 PT. CASLON OPENFACE CUT 132A LENGTH OF SHAFT MAY VARY

\*Alternate names shall appear in parentheses below or following the primary name in the same style type, but using the next smaller size. On sheets of sparse density, where a choice of size of type is allowed for an item, preference shall be given to the larger size.

DRAINAGE FEATURES	1:250,000 COMPILATION		1:250,000 DRAFTING	
	Symbol	Specifications (Use Drafting Specifications)	Symbol	Specifications
301 Definite shoreline				
302 Indefinite (fluctuating) shoreline				
303 Unsurveyed shoreline				
304 Perennial lake or pond; reservoir, definite shoreline				
305 Perennial lake or pond, unsurveyed shoreline				
306 Intermittent lake or pond				
307 Dry lake or pond				
308 Single line perennial stream				
309 Double line perennial stream				
310 Single line perennial stream, unsurveyed				
311 Double line perennial stream, unsurveyed				

\*Add tint where necessary to avoid misinterpretation by draftsman.

†Fill: Hand draft similar to Zip-a-tone F-10.

‡Weight is average; taper stream slightly from mouth to source.

DRAINAGE FEATURES (CONTINUED)	1:250,000 COMPILATION		1:250,000 DRAFTING	
	Symbol	Specifications	Symbol	Specifications
312 Single line intermittent or dry stream				
313 Double line intermittent or dry stream; dry river bed				
314 Unclassified stream				
315 Disappearing stream				
316 Large falls				
317 Large rapids				
318 Small falls				
319 Small rapids				
320 Navigable canal and stream				
321 Abandoned canal, generally dry				

\* 6 pt. News Gothic Condensed C/L in congested areas.

		1:250,000		1:250,000	
DRAINAGE FEATURES (CONTINUED)		COMPILATION		DRAFTING	
		Symbol	Specifications (Use Drafting Specifications)	Symbol	Specifications
322	Aqueduct, above ground				
323	Aqueduct, elevated				
324	Aqueduct, below ground				
325	Aqueduct tunnel				
326	Aqueduct tunnel shaft or outlet				
327	Canal, conduit, ditch (irrigation or drainage)				
328	Flume, penstock and similar features, above ground				
329	Flume, penstock and similar features, elevated				
330	Penstock and similar features, below ground				
331	Sewage disposal bed				
332	Filtration bed				

\*Break overpassed features .02 inch from each side of overpassing feature.

†5 pt. News Gothic Condensed C/L in congested areas.

‡Fill: Hand draft similar to Zip-a-tone F-10.



	DRAINAGE FEATURES* (CONTINUED)	1:250,000		1:250,000	
		Symbol	Specifications	Symbol	Specifications
333	Salt evaporator		FILL: SCATTERED GREEN DOTS		FILL: STIC-PAT 174
334	Fish pond		HAND DRAFT *		6 PT. NEWS GOTHIC COND. C/L **
335	Marsh or swamp		HAND DRAFT		STIC-PAT NO. 181 OR SOLID TINT; OMIT OUTLINE
336	Coastal marsh in tidal waters		HAND DRAFT		STIC-PAT 181; OMIT OUTLINE
337	Coastal marsh in non-tidal waters		HAND DRAFT		STIC-PAT 181; OMIT OUTLINE
338	Peat bog, Peat cuttings		HAND DRAFT		6 PT. NEWS GOTHIC COND C & L ** STIC-PAT 181; OMIT OUTLINE †
339	Mangrove		HAND DRAFT		STIC-PAT 186 IN GREEN: ZIP-A-TONE F-10, HORIZONTAL- LY IN BLUE; OMIT OUTLINE
340	Nipa		HAND DRAFT		STIC-PAT 177 IN GREEN: ZIP-A-TONE F-10, HORIZONTAL- LY IN BLUE; OMIT OUTLINE
341	Cranberry bog		HAND DRAFT		6 PT. NEWS GOTHIC COND. C/L **
342	Rice paddy		HAND DRAFT		STIC-PAT 181; OMIT OUTLINE
343	Land subject to inundation				STIC-PAT 167; OMIT OUTLINE

\*Add tint where necessary to avoid misinterpretation by draftsman.

\*\*5 pt. News Gothic Condensed C/L in congested areas.

†Label "Peat bog" on Drainage copy; label "Peat cuttings" on Culture copy.

		1:250,000	1:250,000	
DRAINAGE FEATURES (CONTINUED)	COMPILATION		DRAFTING	
	Symbol	Specifications	Symbol	Specifications
344 Spring, fountain, cistern				
345 Well				
346 Wadi (double line)				
347 Sebkra, wet sand depression and similar desert features				
348 Wet sand areas within and adjacent to desert areas				
349 Direction of flow				

## RELIEF FEATURES

401 Index contour				
402 Intermediate contour				
403 Supplementary contour				
404 Index approximate contour				

RELIEF FEATURES (CONTINUED)	1:250,000 COMPILATION		1:250,000 DRAFTING	
	Symbol	Specifications	Symbol	Specifications
405 Intermediate approximate contour				
406 Spot elevation, identifiable point				
407 Spot elevation, unidentifiable point				
408 Spot elevation, highest on compilation Highest in general area				
409 Spot elevation, questionable value, identifiable point				
410 Spot elevation, questionable value, unidentifiable point				
411 Form lines				
412 Hachures, nunatak mounds and similar features				
413 Relief data incomplete				
414 Cliff, equal to or greater than contour interval				
415 Fault scarp; carrying contour				

↻↻Light at NW, progressively heavier, clockwise and counter clockwise to heaviest at SE.  
15 pt. News Gothic Condensed C/L type in congested areas.  
↑Elevations in snowfields, glaciers, and on water surfaces to be shown on drainage overlay to print Blue.



RELIEF FEATURES (CONTINUED)	1:250,000		1:250,000	
	COMPILATION		DRAFTING	
	Symbol	Specifications	Symbol	Specifications
416 Depression greater than contour interval				
417 Cliff and depression less than contour interval				
418 Levee				
419 Levee with road; Dam with road				
420 Levee with railroad				
421 Cut less than contour interval				
422 Fill less than contour interval				
423 Cut, exceeding contour interval				
424 Fill, exceeding contour interval				
425 Sand areas				

\*Large areas are to be drafted as a solid and screened in reproduction with AMS No. 10.  
† Apply similarly for monolineal roads

RELIEF FEATURES (CONTINUED)	1:250,000		1:250,000	
	Symbol	Specifications	Symbol	Specifications
426 Sand in non-tidal waters		 HAND DRAFT BROWN DOTS .005		STIC-PAT 174
427 Sandy beach		 FREEHAND LETTERING HAND DRAFT BROWN DOTS .005		STIC-PAT 174
428 Gravelly beach		 FREEHAND LETTERING		STIC-PAT 191
429 Boulder covered beach		 FREEHAND LETTERING		LABEL ALONG SHORE STIC-PAT 193 6 PT. NEWS GOTHIC COND C & L
430 Distorted surface area		 FREEHAND LETTERING		STIC-PAT 193 * † **
431 Strip mines, tailing piles, mined dumps		 ---.006		---.006
432 Glacier, approximate contours		 .064 .016 .01 .006 .01 .064 .016 .01		*** .064 .016 .01 .006 .01 .064 .016 .01
433 Glacier, form lines		 .064 .016 .01 .006 .01 .064 .016 .01 .12'		*** .064 .016 .01 .006 .01 .064 .016 .01 .12'
434 Glacial moraine		 HAND DRAFT BROWN DOTS .006		*** HAND DRAFT BROWN DOTS .006
435 Snow-ice index contour		 ---.01		† ---.01
436 Snow-ice intermediate contour		 ---.006		† ---.006

\*5 pt. News Gothic Condensed C/L type in congested areas.

†Contours values- 6pt. AMS Slope Gothic.

‡When drafted as solid on overlay screen with AMS No. 1 & 3.

\* Label as indicated in items 140, 141 & 142.

\*\*\* Where spacing of relief portrayal warrants, dashed lines indicating direction of pressure may be added, lengths varying from .04 to .20 inch.

Pressure lines, shown in same general direction of relief, shall be closely spaced at end of glacier, with spaces widening toward the head of the glacier.

\*\*\*\* When moraine is adjacent to sand area, separate with a row of heavy dots and label "Moraine" in 6-8 Pt. News Gothic Cond. C/L on Culture.

Use dots specified in symbol 904.

RELIEF FEATURES (CONTINUED)	1:250,000 COMPILATION		1:250,000 DRAFTING	
	Symbol	Specifications	Symbol	Specifications
437 Snow-ice supplementary contour				
438 Snow-ice index approximate contour				
439 Snow-ice intermediate approximate contour				
440 Snow-ice form lines				
441 Limits of snowfield or icefield				
442 Surrounding limits of nunataks, glaciers and similar features				
443 Snow-ice hachures				
444 Ice cliff				
445 Limits of ice, sea ice, pack ice				
446 Asphalt lake				
447 Cave				

(SEE BOTTOM OF NEXT PAGE FOR  
22 SYMBOL 448)

\*Light weight at NW, heavier progressively clock-  
wise and counterclockwise to heaviest at SW.  
† 5pt. News Gothic Condensed C/L in congested areas.

		1:250,000		1:250,000	
VEGETATION FEATURES		COMPILATION		DRAFTING	
		Symbol	Specifications	Symbol	Specifications
501	Woods-brushwood		 GREEN CRAYON FILL † FREEHAND LETTERING		SOLID TINT OR A-4 ZIP-A-TONE (USE ZIP-A-TONE NO. A-4 FOR SMALL AREAS)
502	Orchards, plantations, vineyards		 ORANGE CRAYON FILL † FREEHAND LETTERING		ZIP-A-TONE 16
503	Tropical grass		 BLUE CRAYON FILL † FREEHAND LETTERING		STIC-PAT 175
504	Mangrove		 YELLOW CRAYON FILL † FREEHAND LETTERING		STIC-PAT 186 IN GREEN: ZIP-A-TONE F-10, HORIZONTAL- LY IN BLUE: OMIT OUTLINE
505	Nipa		 GRAY CRAYON FILL † FREEHAND LETTERING		STIC-PAT 177 IN GREEN: ZIP-A-TONE F-10, HORIZONTAL- LY IN BLUE: OMIT OUTLINE
506	Tundra		 FREEHAND LETTERING		STIC-PAT NO. 181 OR SOLID TINT (USE STIC-PAT NO. 181 FOR SMALL AREAS)
RELIEF FEATURES (CONTINUED)					
448	Mountain pass		 FREEHAND LETTERING		6-8PT. SPARTAN MEDIUM ITALIC C/L

\* Label large areas "Tundra" on culture drawing in  
5 pt. to 8 pt. News Gothic Condensed Caps or C/L type  
† Tint on compilation optional

1:250,000		1:250,000		
POPULATED PLACES AND LANDMARK FEATURES	COMPILATION		DRAFTING	
	Symbol	Specifications	Symbol	Specifications
Developed areas, limits known and area exceeding equivalent of .10" x .10"		 CORRECT OUTLINE		 CORRECT OUTLINE
Small developed areas less than equivalent of .10" x .10"		 .048 (4) .004		 .048 (4) .004
Buildings, row buildings, blocks of buildings				

1. Size of individual buildings .02 x .02.
2. Width of row buildings .02.
3. Distance between parallel rows of buildings not less than .01.
4. An individual building may be an isolated building, a short row or a cluster of buildings.
5. Show length and shape of row buildings and blocks of buildings as compiled.
6. Where monolineal road is omitted show .02 space between buildings.
7. Where buildings are shown along one side of a monolineal road show .01 space.

608 Walled city				
609 Landmark features				

- \* For Method II, Type B (suburban, rural, secondary built-up areas) screen AMS No. 1 at 45° angle.  
 † Add code number for type size  
 16 pt. News Gothic Condensed C/L; 6 pt. in congested areas.  
 \*\* Apply light pink or flesh tint; to indicate Method II, Type B apply light yellow tint.



POPULATED PLACES AND LANDMARK FEATURES (CONTINUED)	1:250,000		1:250,000	
	COMPILATION		DRAFTING	
	Symbol	Specifications	Symbol	Specifications
610 Building plottable to scale		LABELLED SOLID: CORRECT SHAPE		LABEL APPROPRIATELY SOLID: CORRECT SHAPE
611 Landmark object		.008 LABELLED .004 .04		.008 .004 .04 LABEL APPROPRIATELY
612 School		.028 .02 .024 .004		.028 .02 .024 .004
613 Church		.024 .016 .024 .024 .004		.024 .016 .024 .024 .004

## CULTURAL FEATURES

(Use Drafting Specifications)

701 Normal or broad gauge, single track railroad, operating		FREEHAND LETTERING  ** *		6 PT. COPPER GOTHIC ITALIC NO. 51 .06 .15 .02 ** *
702 Normal or broad gauge, double or multiple track railroad, operating		FREEHAND LETTERING  ** *		6 PT. COPPER GOTHIC ITALIC NO. 51 .06 .15 .02 ** *
703 Narrow gauge, single track railroad, operating		FREEHAND LETTERING  ** *		6 PT. COPPER GOTHIC ITALIC NO. 51 .02 .15 .02 OR .012 ** *
704 Narrow gauge, double or multiple track railroad, operating		FREEHAND LETTERING  ** *		6 PT. COPPER GOTHIC ITALIC NO. 51 .02 .15 .02 OR .012 ** *
705 Normal or broad gauge, single track railroad, non-operating		FREEHAND LETTERING  * †		6 PT. COPPER GOTHIC ITALIC NO. 51 .06 .15 .02 * †
706 Normal or broad gauge, double or multiple track railroad, non-operating		FREEHAND LETTERING  * †		6 PT. COPPER GOTHIC ITALIC NO. 51 .06 .15 .02 * †

† 6 pt. News Gothic Condensed C/L; 5 pt. in congested areas.

\*\* Label ELECTRIFIED where it applies.

\* Label gauges other than normal gauge.

† Label ABANDONED, DESTROYED or CONSTRUCTION

\*\*\* Trunk line weight will be specified in supplementary information.

CULTURAL FEATURES (CONTINUED)	1:250,000		1:250,000	
	COMPILATION		DRAFTING	
	Symbol	Specifications	Symbol	Specifications
707 Narrow gauge, single track railroad, non-operating				
708 Narrow gauge, double or multiple track railroad, non-operating				
709 Siding closely parallel to main line railroad				
710 Railroads in juxtaposition				
711 Identification of number of tracks of multiple track railroad				
712 Point of change in number of tracks or of gauge				
713 Railroad station: position unknown; position known				
714 Car line				
715 Railroad yard				
716 Snowshed				
717 Aerial cableway, ski lift, conveyor belt, monorail and similar features				

\*Label gauges other than normal gauge.

†Label ABANDONED, DESTROYED or CONSTRUCTION

\*\* 5 pt. News Gothic Condensed C/L type in congested areas

\*\*\* Trunk line weight will be specified in supplementary information.

CULTURAL FEATURES (CONTINUED)	1:250,000		1:250,000	
	COMPILATION		DRAFTING	
	Symbol	Specifications	Symbol	Specifications
718 Bridge, viaduct or overpass for double line roads				
719 Bridge, viaduct or overpass for railroads, monolineal roads and tracks				
720 Footbridge along trail				
721 Tunnel along monolineal roads				
722 Tunnel				
723 Ferry across single line stream				
724 Ferry across narrow double line stream				
725 Ferry across wide double line stream				
726 Ferry across very wide open water areas				
727 Ford across single line stream				
728 Ford across double line stream				


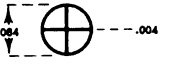

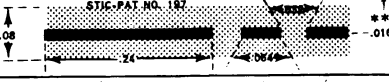

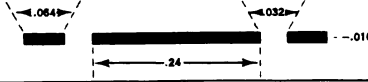

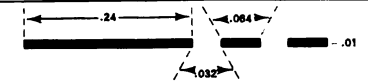

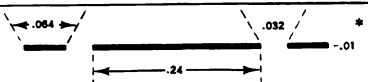

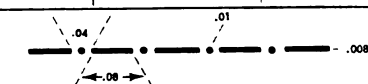
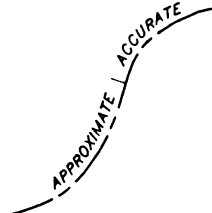
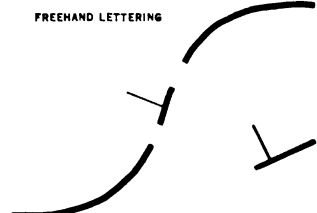
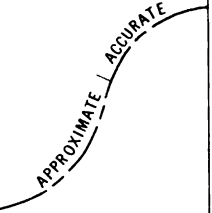
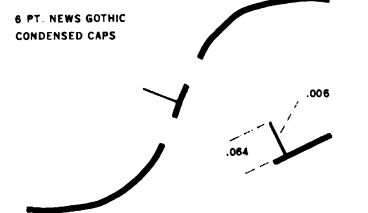
\* 5 pt. News Gothic Condensed C/L; in congested areas.  
† May be abbreviated to Fy in congested areas.  
\*\* Show on drawing which contains the related feature

CULTURAL FEATURES (CONTINUED)	1:250,000		1:250,000	
	COMPILATION		DRAFTING	
	Symbol	Specifications	Symbol	Specifications
729 Mine		HARD DRAFT		ANS CUT NO. 36 LABEL (IF INFORMATION IS AVAILABLE)
730 Outlined landmark area				
731 Well (other than water)				
732 Tank (all types)				
733 Reservoir (other than water)				
734 Landmark pipeline, above ground				
735 Landmark pipeline, below ground				
736 Dam or lock				
737 Dam carrying road				
738 Larger dam, plotted to scale				
739 Prominent piers, breakwaters, jetties and similar features				

\* 6 pt. News Gothic Condensed C & L; 5 pt. in congested areas.

1:250,000			1:250,000	
CULTURAL FEATURES (CONTINUED)	COMPILATION		DRAFTING	
	Symbol	Specifications (Use Drafting Specifications)	Symbol	Specifications
740 Powerline				
741 Telephone or telegraph line	<i>Tel</i>		<i>Tel</i>	
742 Prominent wall	<i>Wall</i>		<i>Wall</i>	
743 Prominent fence				
744 Landplane airport				AMS CUT NO. 35
745				
746 Landing area				AMS CUT NO. 35
747 Seaplane airport				AMS CUT NO. 35
748				
749 Seaplane anchorage				AMS CUT NO. 35
750 Horizontal control point				

\* 5 pt. News Gothic Condensed C & L in congested areas.

CULTURAL FEATURES (CONTINUED)	1:250,000 COMPILATION		1:250,000 DRAFTING	
	Symbol	Specifications (Use Drafting Specifications)	Symbol	Specifications
751 Astronomic position	⊕		⊕	
752 International boundary	---		---	
753 Interterritorial or Intercolonial	---		---	
754 Primary administrative boundary (province or equivalent)	---		---	
755 Secondary administrative boundary (county or equivalent)	---		---	
756 Reservation boundary	---		---	
757 Point of change in accuracy of boundaries				
758 Landmark racetrack	○	HAND DRAFT LIKE AMS CUT 275	○	AMS CUT NO. 275

\*Show only for specified countries.

†When drafted as solid, screen in reproduction with AMS No. 12

‡6 pt. News Gothic Condensed C & L; 5 pt. in congested areas.

\*\* When symbol units are omitted in streams or roads and the alignment is apparent, show overprint as a continuous band over the entire extent of the boundary.

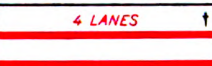
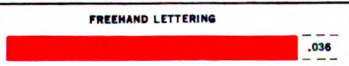
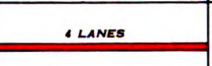
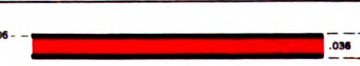







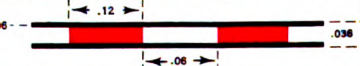



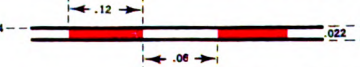




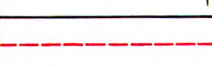
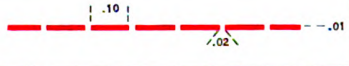
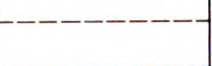
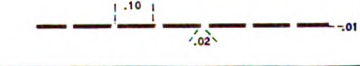

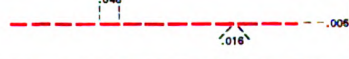

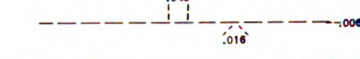
1:250,000			1:250,000	
BOUNDARIES IN LOCATION DIAGRAMS: UNITED STATES	COMPILATION (Use Drafting Specifications)		DRAFTING	
	Symbol	Specifications	Symbol	Specifications
752A National				
752B State				

**BOUNDARIES IN  
LOCATION DIAGRAMS;  
FOREIGN**

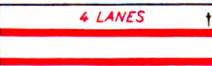
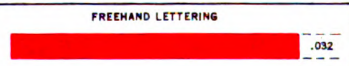

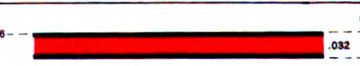
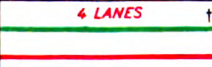







752C International			
753A Intercolonial or interterritorial			
754A Primary administrative			
755A Secondary administrative			

1:250,000

1:250,000

ROADS—UNITED STATES	COMPILATION		DRAFTING	
	Symbol	Specifications	Symbol	Specifications
801 Hard surface, heavy duty road, more than two lanes wide				
802 Hard surface, heavy duty road, two lanes wide				
803 Hard surface, medium duty road, more than two lanes wide				
804 Hard surface, medium duty road, two lanes wide				
805 Improved light duty road				
806 Unimproved dirt road				
807 Trail				

## ROADS—FOREIGN

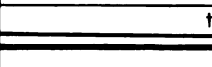

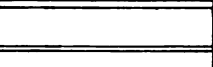
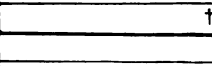

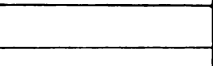
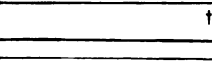
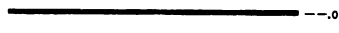
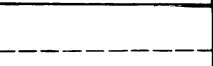

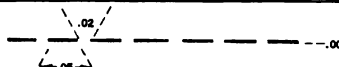

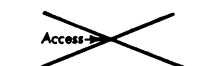
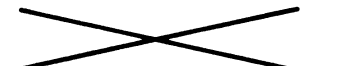

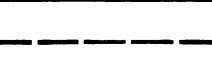
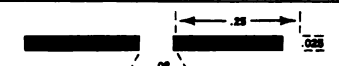
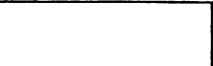

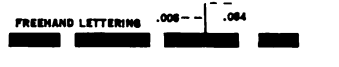

808 All weather, hard surface, two or more lanes wide				
809 All weather, loose or light surface, two or more lanes wide				
810 All weather, hard surface, one lane wide				

\*6 pt. Copper Gothic Italic No. 51.

†Color on road classification copy.

††When required, modifications to symbolization, road fills, and printing colors will be specified in supplementary instructions.



		1:250,000	1:250,000
ROADS—FOREIGN (CONTINUED)	COMPILATION		DRAFTING
	Symbol	Specifications	Symbol Specifications
811 All weather, loose or light surface, one lane wide			
812 Fair or dry weather, loose surface			
813 Cart track			
814 Footpath, trail			
814A Road interchange, access (foreign and domestic)			
ROADS—GENERAL			
815 Unclassified roads			
816 Road, location approximate			

†Color on road classification copy.

††When required, modifications to symbolization, road fills, and printing colors will be specified in supplementary instructions.

	ROADS—GENERAL (CONTINUED)	1:250,000 COMPILATION		1:250,000 DRAFTING	
		Symbol	Specifications	Symbol	Specifications
817	Road, exact location unknown				
818	Road under construction, classification known		USE PROPER ROAD SYMBOL AND LABEL "UNDER CONSTRUCTION"		
819	Road under construction, classification unknown				
820	Dual highway				
821	Through roads in outlined developed areas				
822	Streets in outlined developed areas				
823	Point of change in road information				
824	Lane information				
825	Distance along roads				
826	National (Federal) route markers				
827	Secondary (State) route markers				

† Add proper classification fill.  
‡ Color on road classification copy.  
\* For route marker cut numbers refer to Symbols 240 and 241.  
Show on drawing which contains the related road symbol.




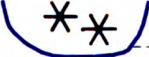
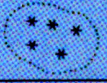





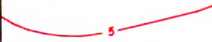
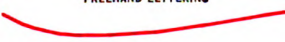
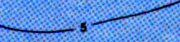

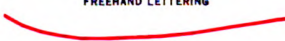
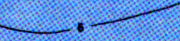
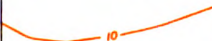
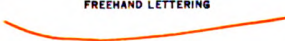
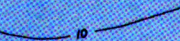

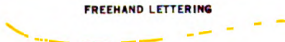
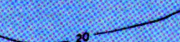
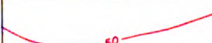
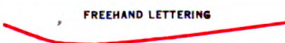


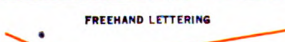


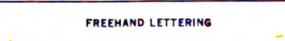
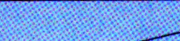
		1:250,000	1:250,000		
COASTAL HYDROGRAPHY		COMPILATION		DRAFTING	
		Symbol	Specifications	Symbol	Specifications
901	Corrected shoreline, definite				
902	Corrected shoreline, unsurveyed				
903	Deleted shoreline				
904	Limit of danger				
905	Foreshore flat				
906	Large reef or rocky ledge				
907	Small reef or rocky ledge				
908	Submerged reef, or group of sunken rocks				
909	Submerged reef with rocks				
910	Sunken rock				

\* 5 pt. in congested areas.  
† If composition is unknown omit label  
\*\* Label composition, if known.

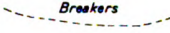

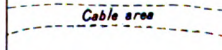


35

\* 5 pt. in congested areas.  
† If composition is unknown omit label  
\*\* Label composition, if known.



COASTAL HYDROGRAPHY (CONTINUED)	1:250,000		1:250,000	
	Symbol	Specifications	Symbol	Specifications
911 Rock, uncovering or awash	*	 HAND DRAFT	 AMS CUT NO. 35	
912 Group of rocks, uncovering or awash		 HAND DRAFT ---.006	 AMS CUT NO. 35 ---.03 ---.01	
913 Exposed wreck		 HAND DRAFT	 AMS CUT 280A	
914 Sunken wreck	++	 HAND DRAFT	 AMS CUT 280A	
915 Depth curve, 5 fathoms		 FREEHAND LETTERING ---.004	 5 PT. AMS SLOPE GOTHIC ---.004	
916 Depth curve, 6 fathoms		 FREEHAND LETTERING ---.004	 5 PT. AMS SLOPE GOTHIC ---.004	
917 Depth curve, 10 fathoms		 FREEHAND LETTERING ---.004	 5 PT. AMS SLOPE GOTHIC ---.004	
918 Depth curve, 20 fathoms		 FREEHAND LETTERING ---.004	 5 PT. AMS SLOPE GOTHIC ---.004	
919 Depth curve, 50 fathoms		 FREEHAND LETTERING ---.004	 5 PT. AMS SLOPE GOTHIC ---.004	
920 Depth curve, 100 fathoms		 FREEHAND LETTERING ---.004	 5 PT. AMS SLOPE GOTHIC ---.004	
921 Depth curve, 1000 fathoms		 FREEHAND LETTERING ---.004	 5 PT. AMS SLOPE GOTHIC ---.004	

\*Convert to feet or meters when these units are specified.

COASTAL HYDROGRAPHY (CONTINUED)		1:250,000	1:250,000
		COMPILATION	DRAFTING
		Symbol	Specifications
922	Breakers, limits unmarked	<i>Breakers</i>	* FREEHAND LETTERING 6 PT. NEWS GOTHIC COND. C/L
923	Breakers, limits marked		* FREEHAND LETTERING 6 PT. NEWS GOTHIC COND. C/L -0161-032-004
924	Kelp, in conjunction with symbolized feature	* <i>Kelp</i>	* FREEHAND LETTERING 6 PT. NEWS GOTHIC COND. C/L AMS CUT NO. 35
925	Kelp, small area	<i>Kelp</i>	* FREEHAND LETTERING 6 PT. NEWS GOTHIC COND. C/L
926	Kelp, extensive area		* FREEHAND LETTERING 6 PT. NEWS GOTHIC COND. C/L -01-03
927	Bottom characteristics	<i>mud</i>	* FREEHAND LETTERING 5 PT. NEWS GOTHIC COND. LOWER CASE
928	Maritime limits,		* FREEHAND LETTERING 6 PT. NEWS GOTHIC COND. C/L -032-016-004
929	Anchorage for boats (small vessels)		AMS CUT 280A
930	Anchorage for ships (large vessels)		AMS CUT 280A

\*5 pt. in congested areas.

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