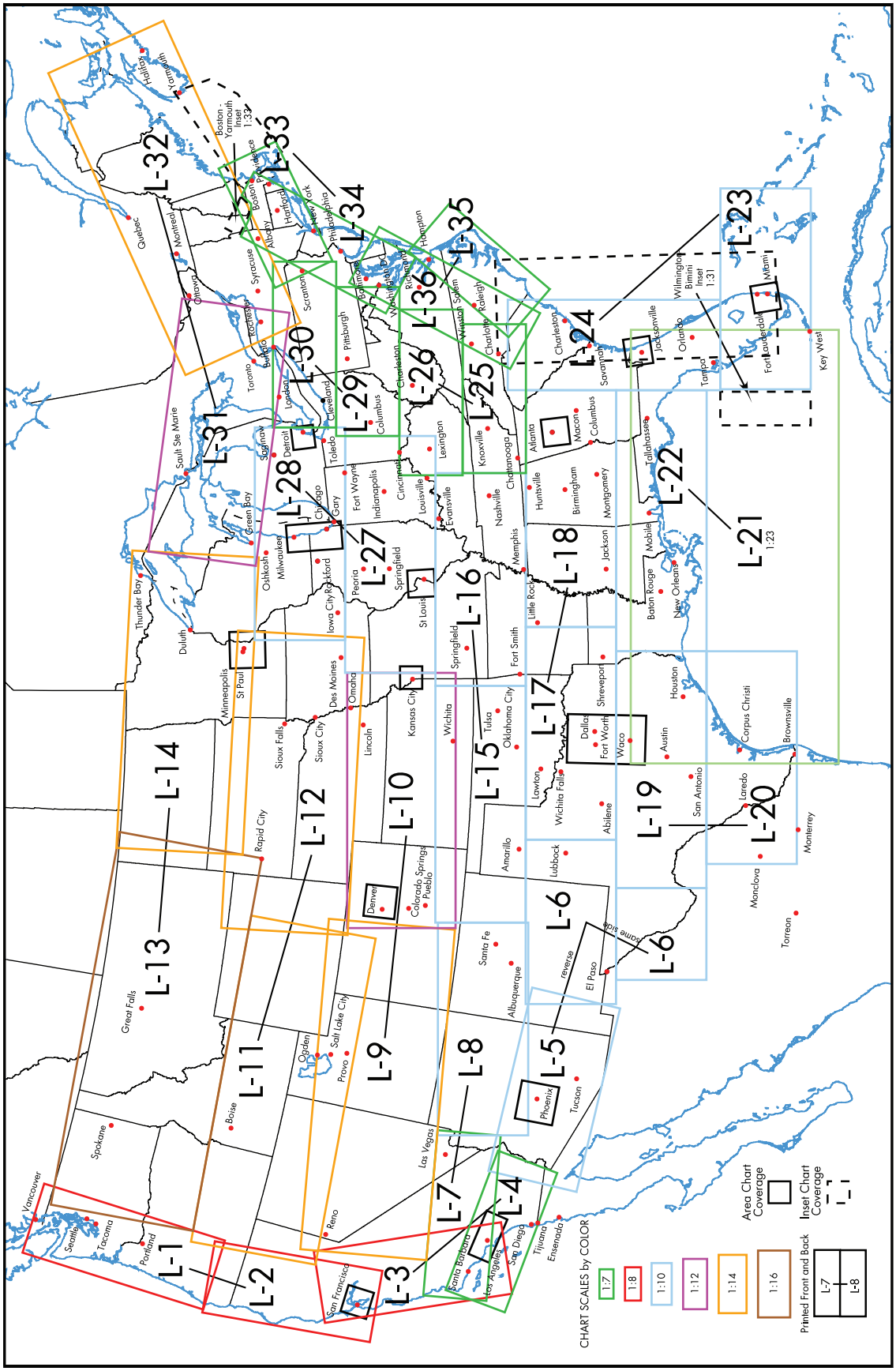
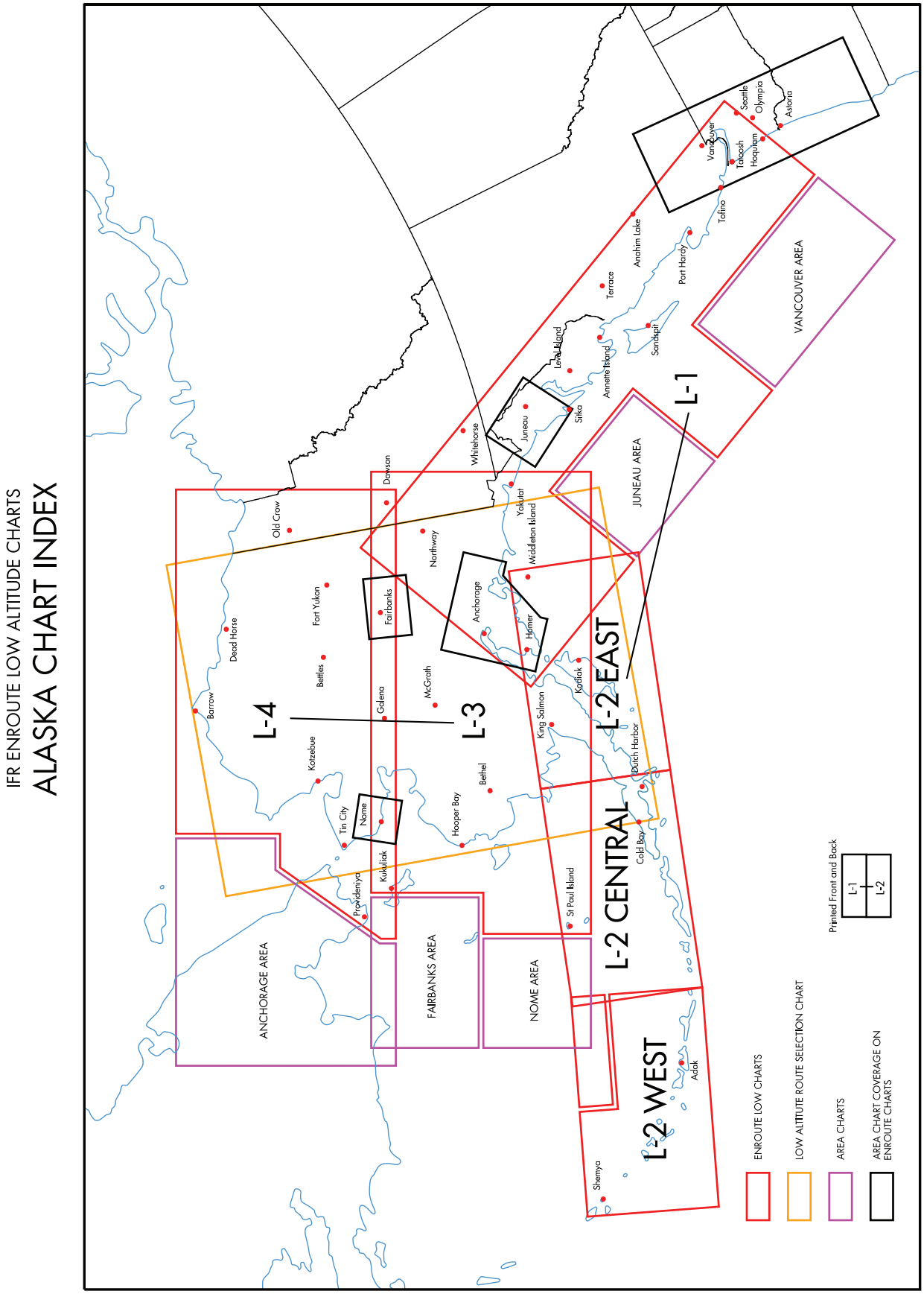
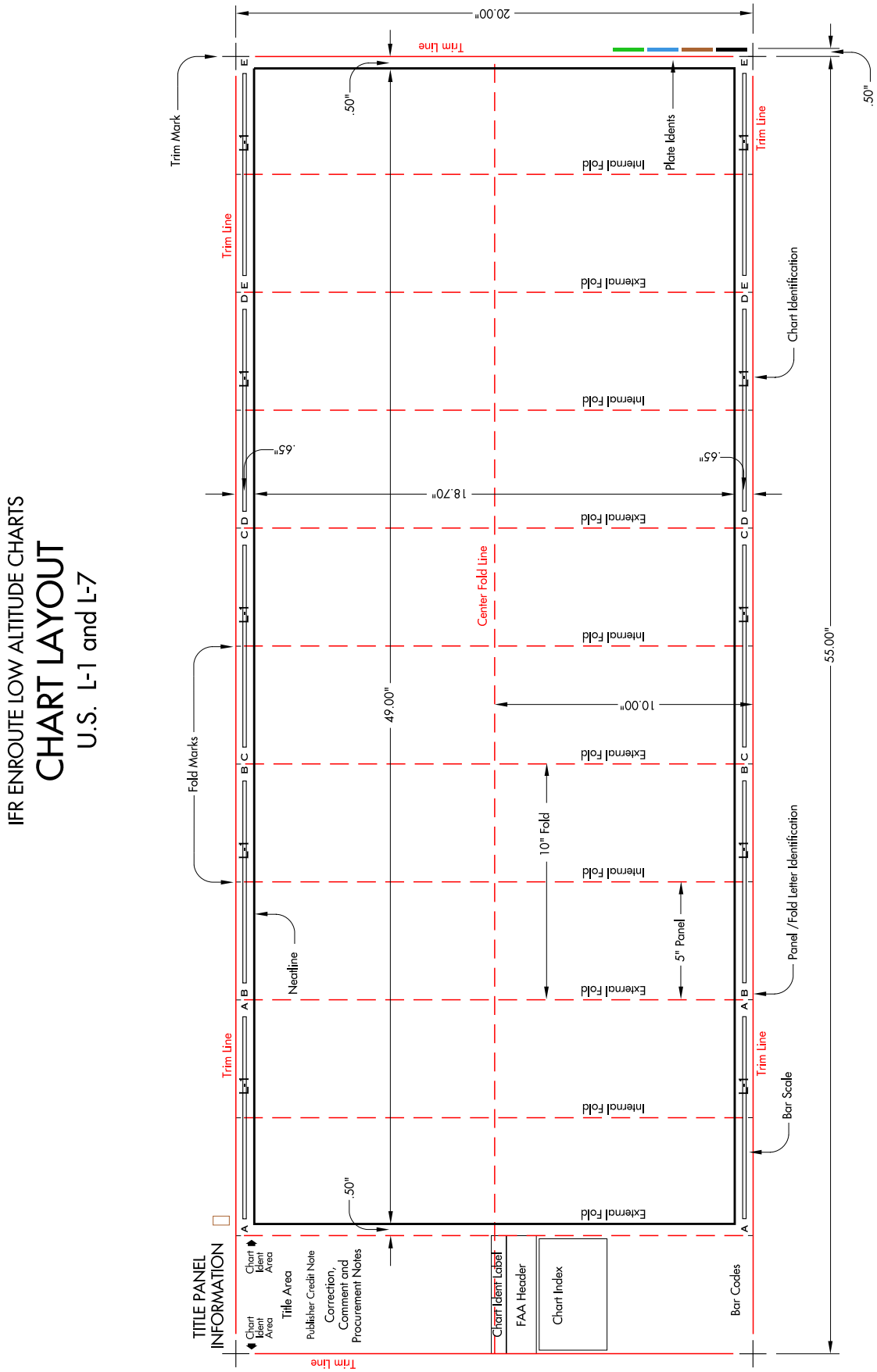
APPENDIX 1
LOW ENROUTE CHART AREA OF COVERAGE – U.S.



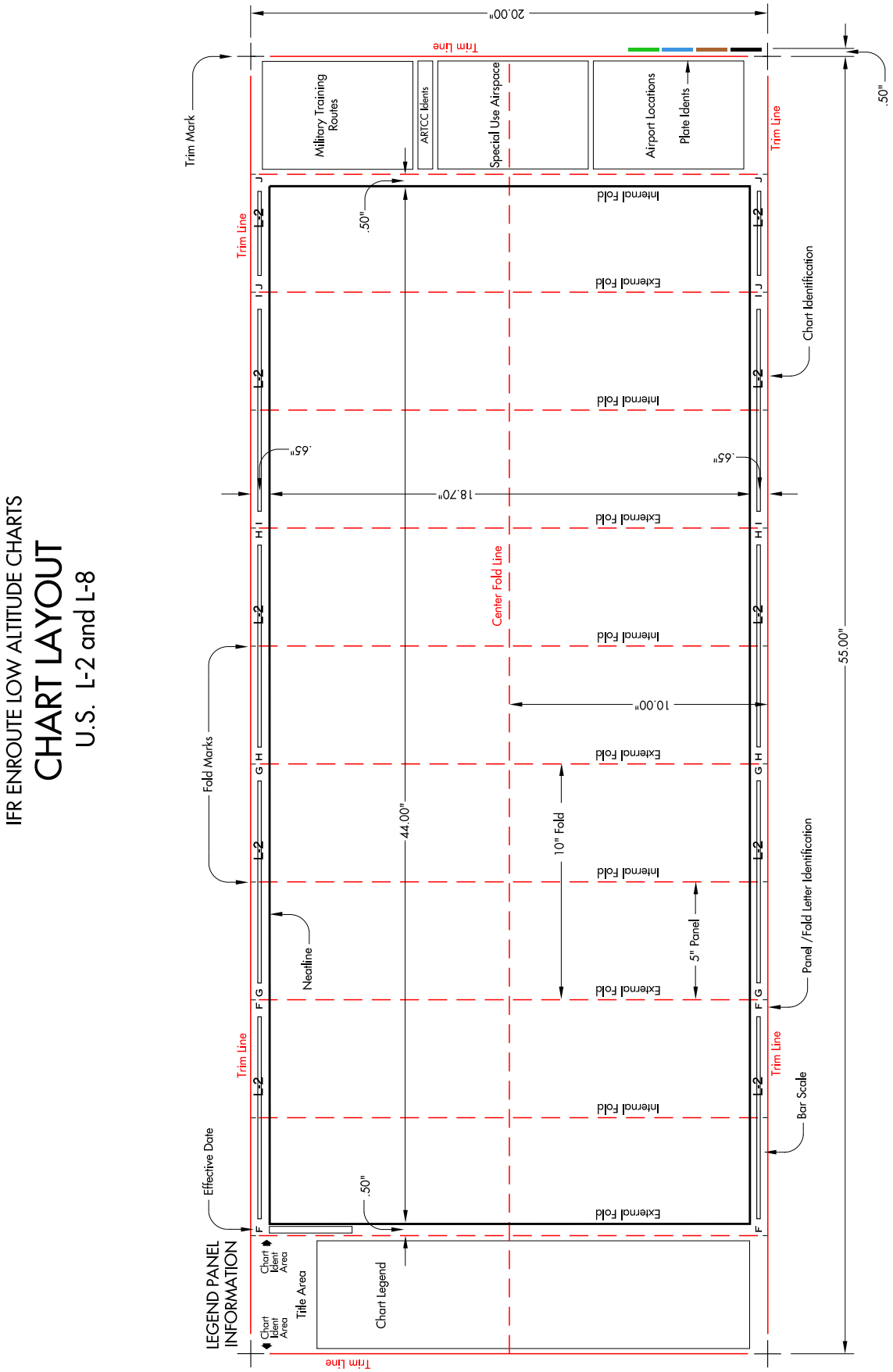
APPENDIX 2
ALASKA LOW ENROUTE CHART AREA OF COVERAGE



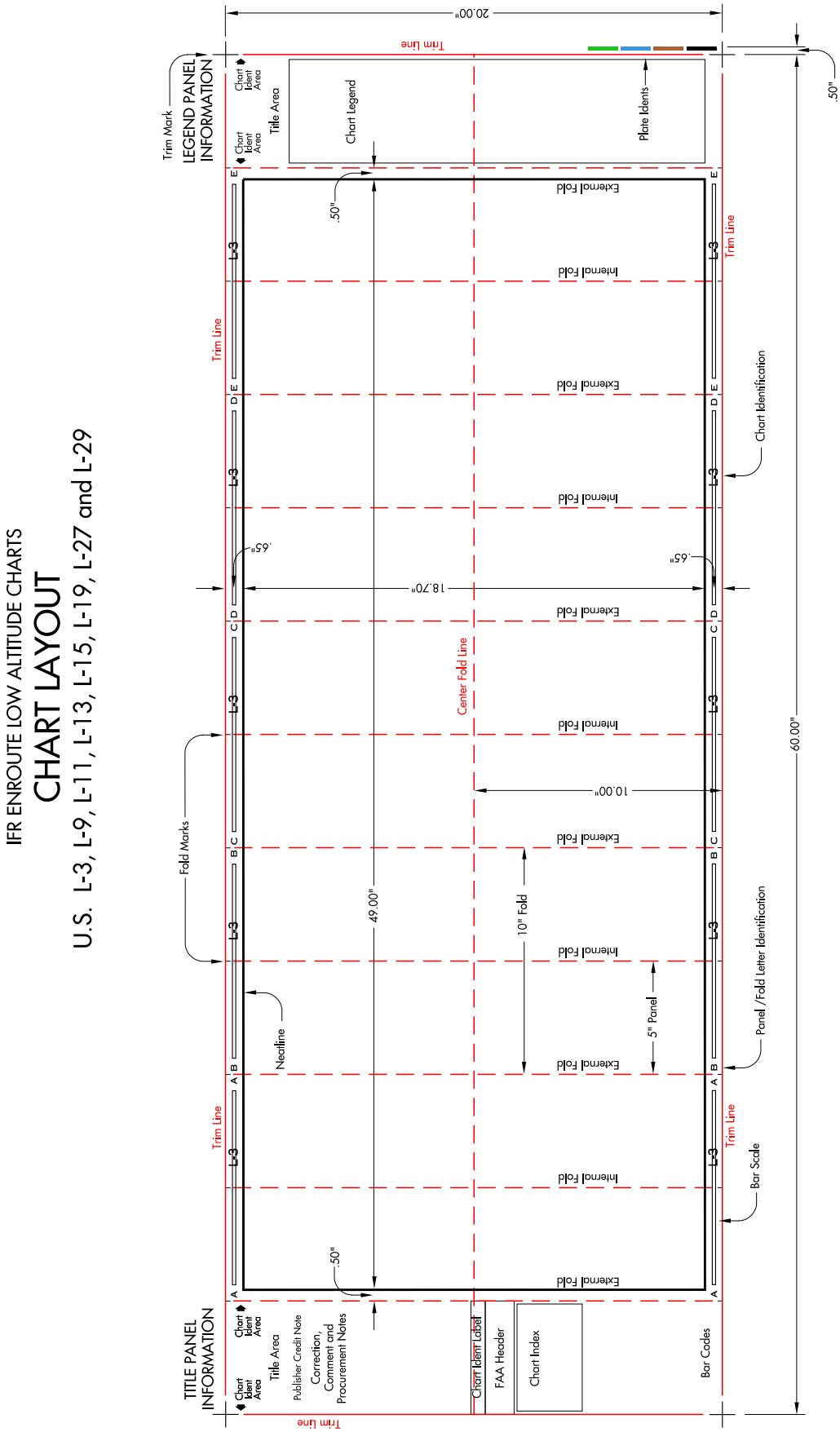
APPENDIX 3
CHART LAYOUT - U.S. L-1 AND L-7



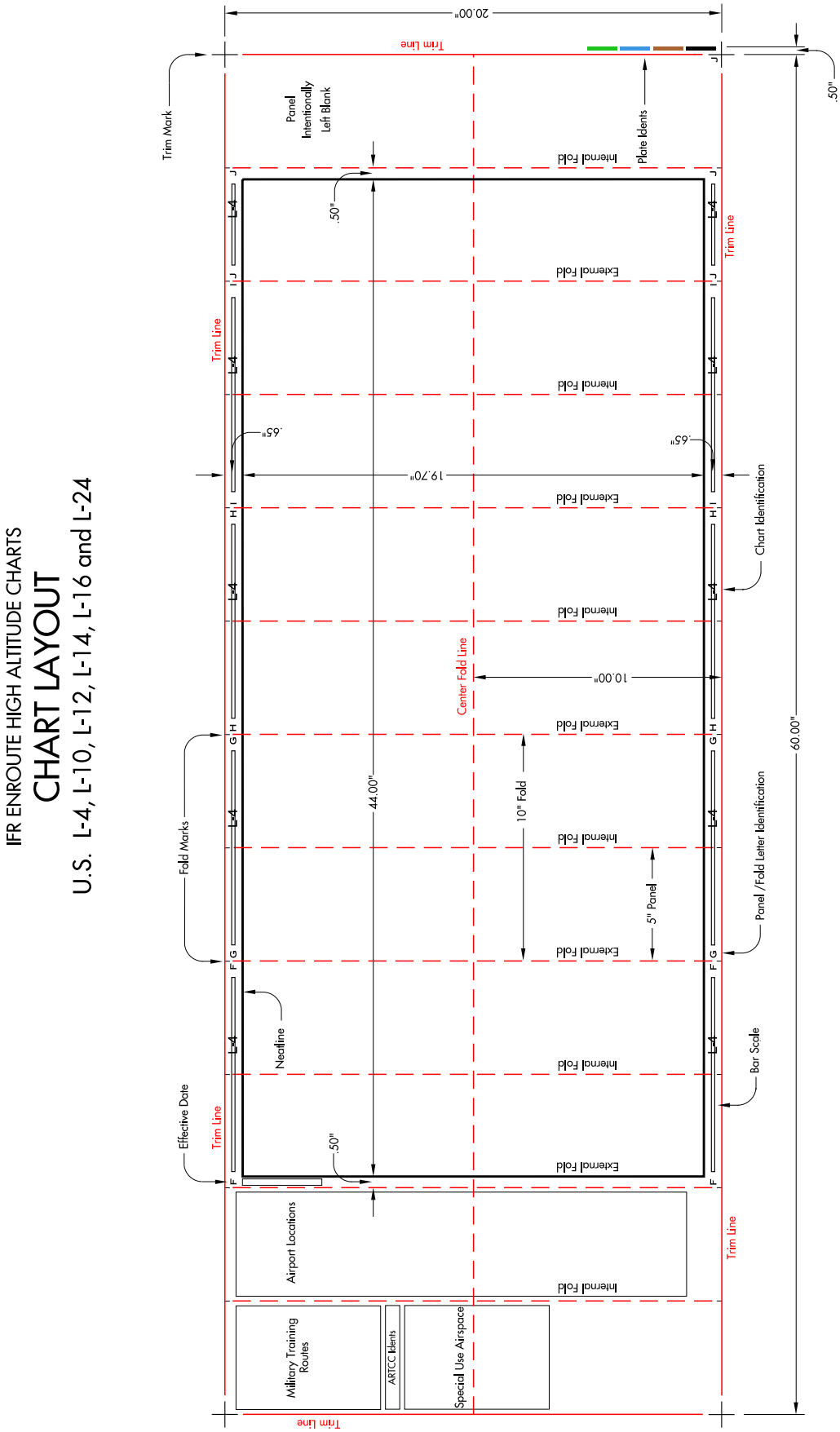
APPENDIX 4
CHART LAYOUT - U.S. L-2 AND L-8



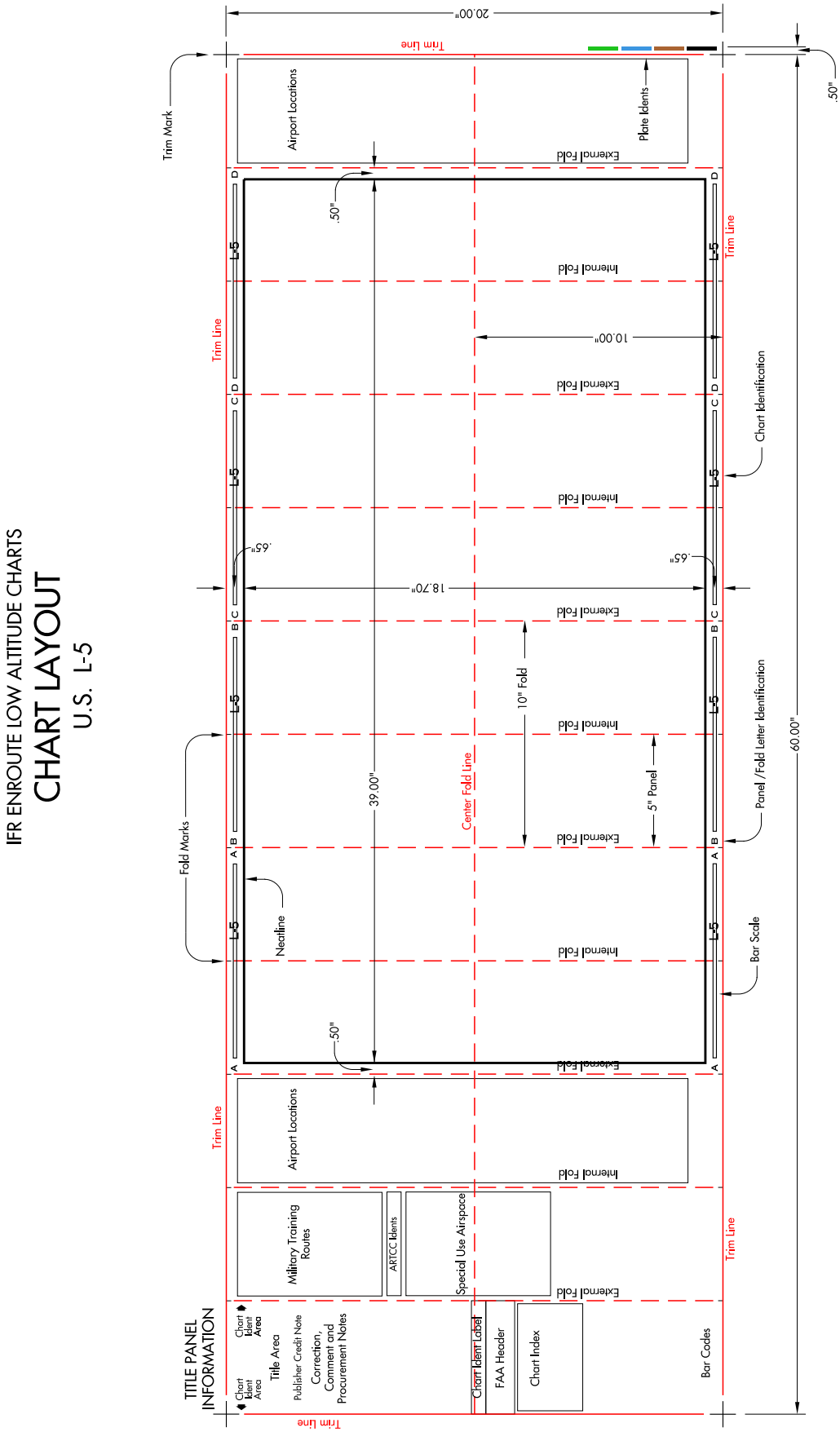
APPENDIX 5
CHART LAYOUT - U.S. L-3, L-9, L-11, L-13, L-15, L-19, L-27 AND L-29



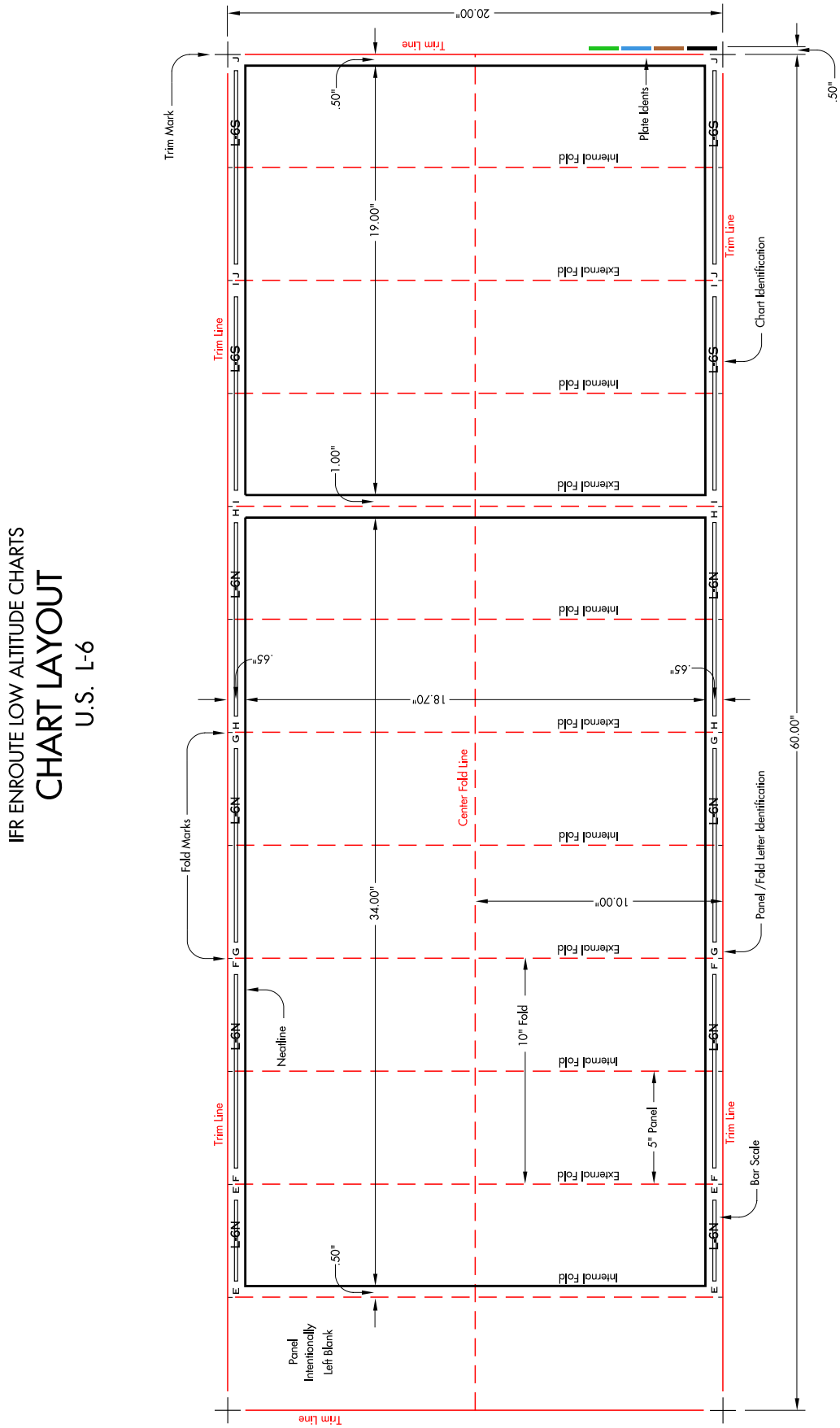
APPENDIX 6
CHART LAYOUT - U.S. L-4, L-10, L-12, L-14, L-16 AND L-24



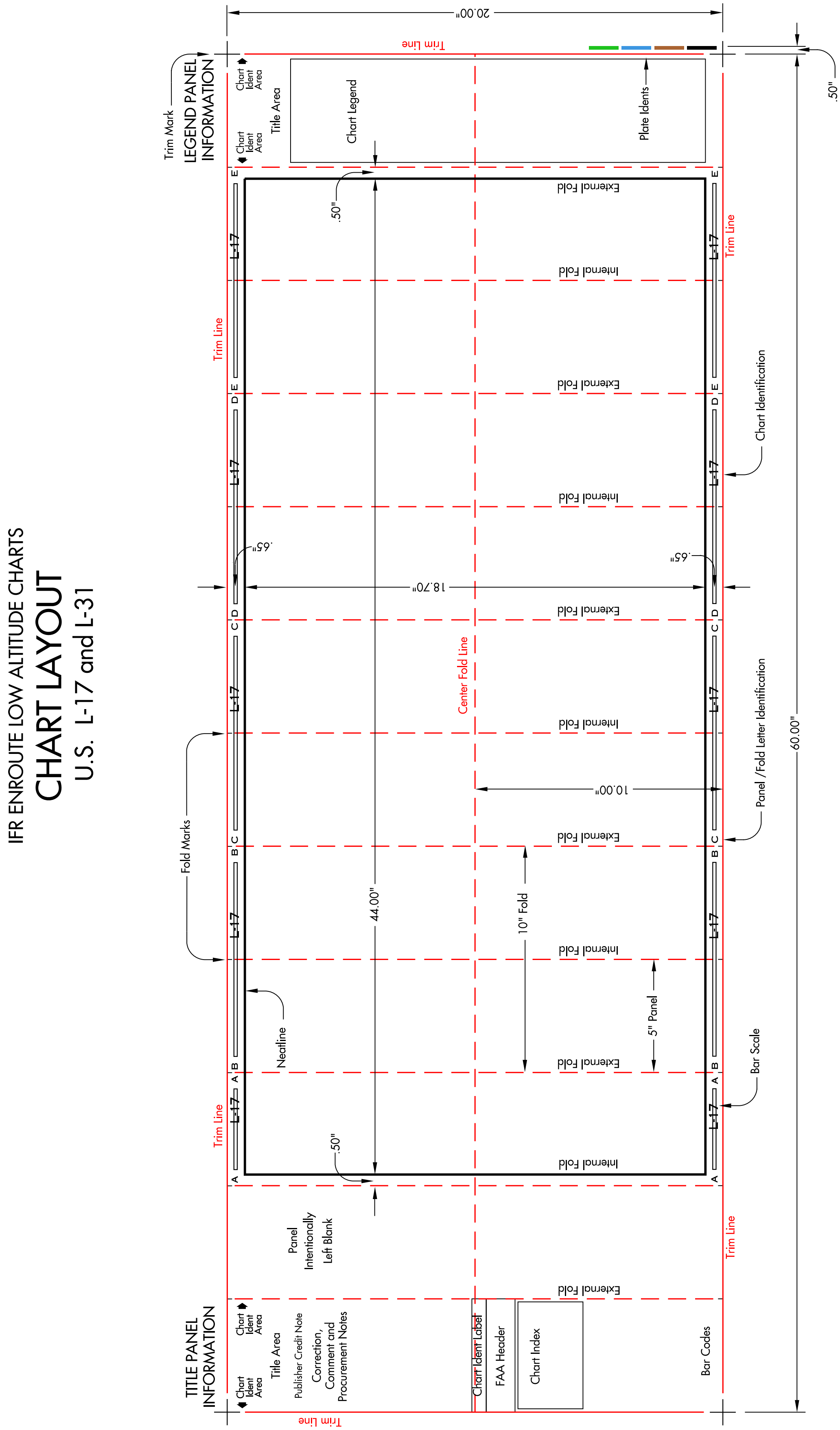
APPENDIX 7
CHART LAYOUT - U.S. L-5



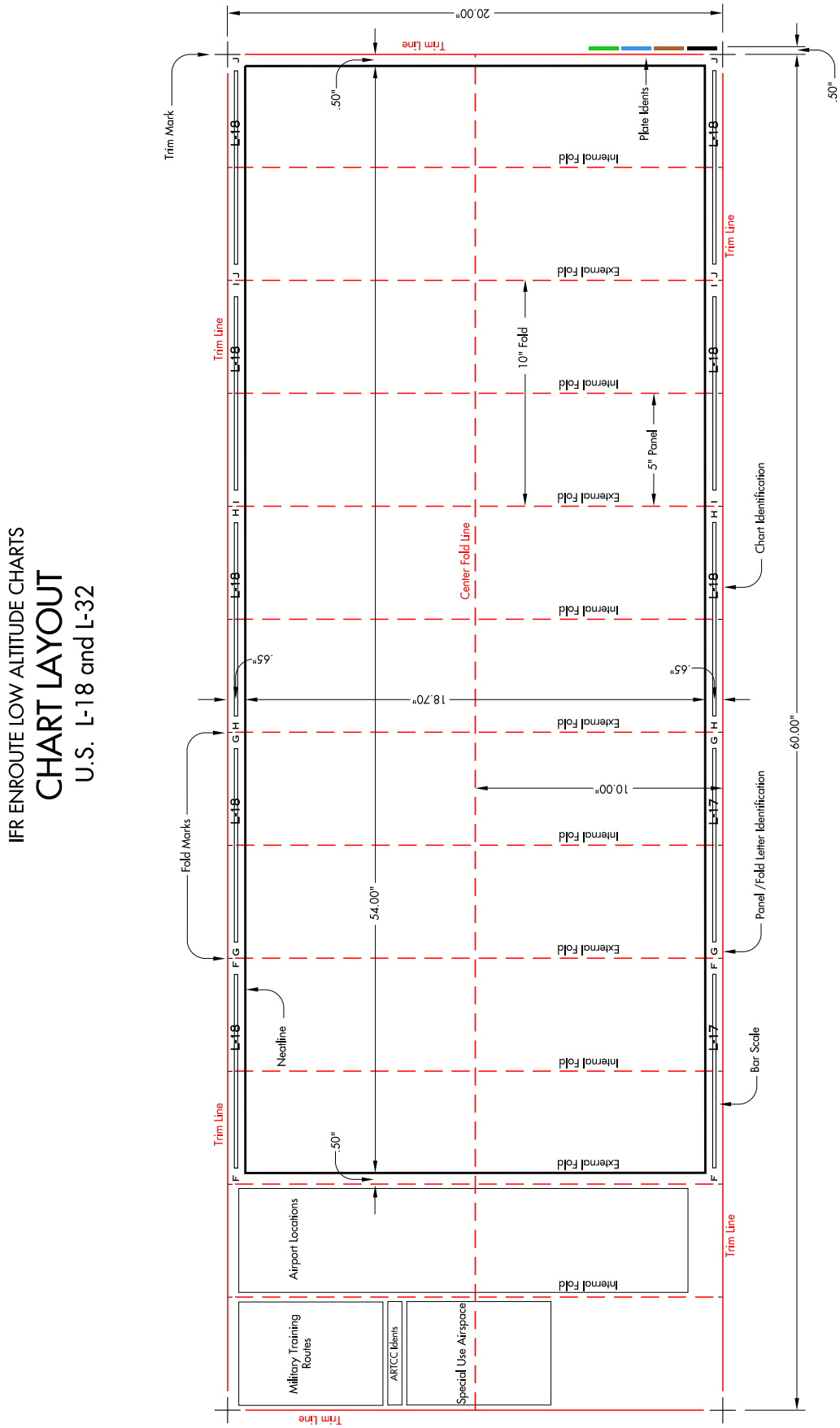
APPENDIX 8
CHART LAYOUT - U.S. L-6



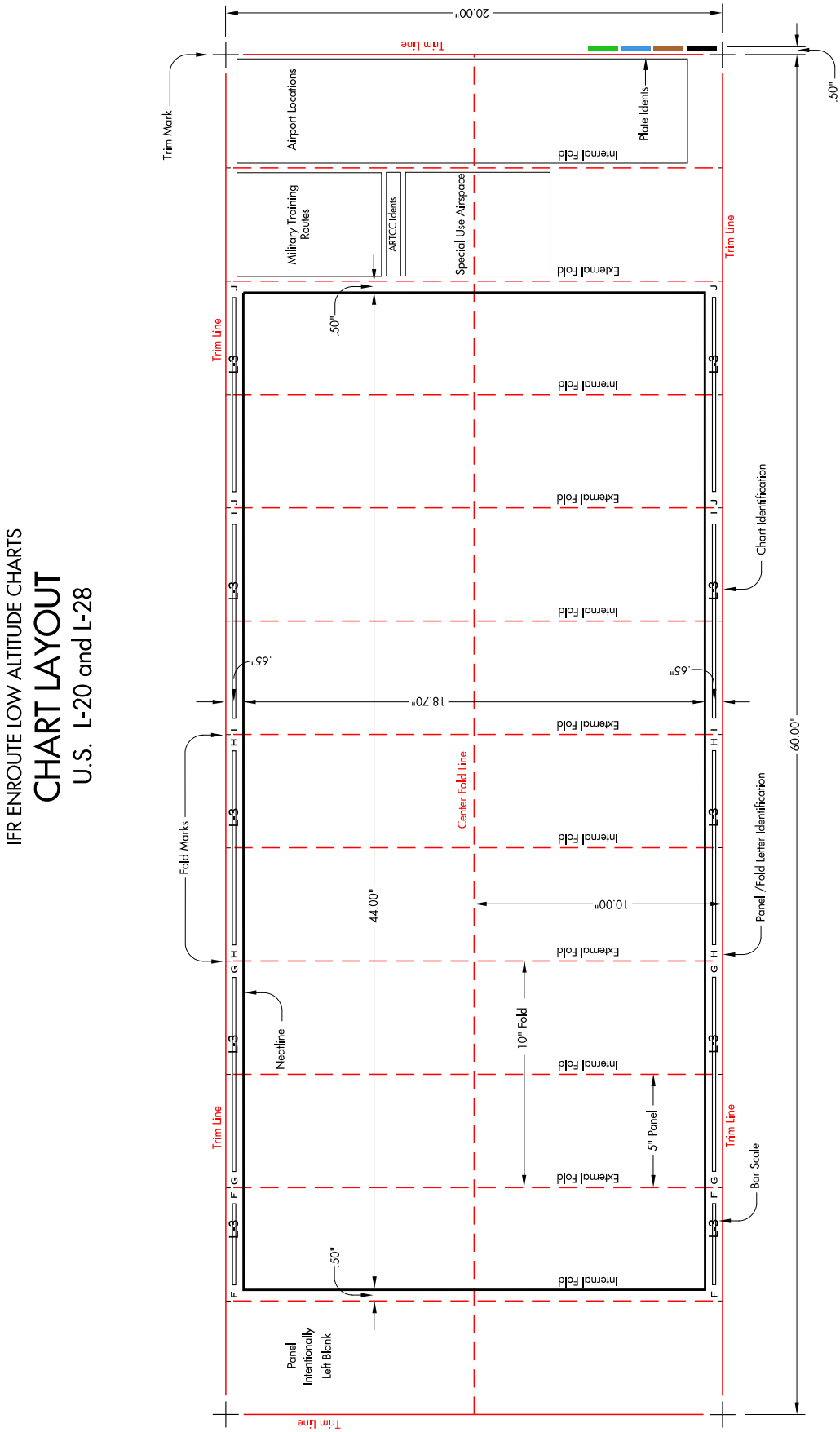
APPENDIX 9
CHART LAYOUT - U.S. L-17 AND L-31



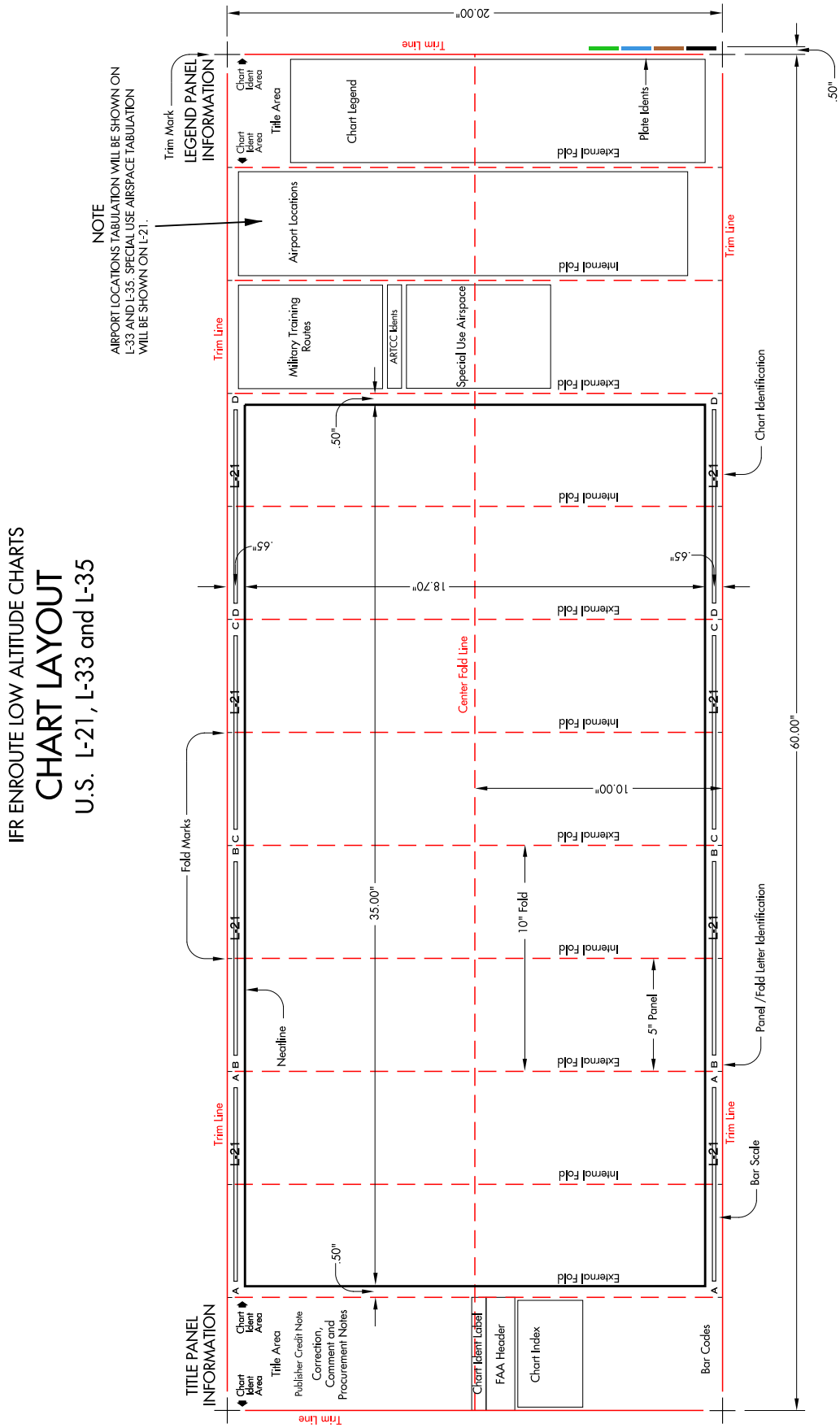
APPENDIX 10
CHART LAYOUT - U.S. L-18 AND L-32



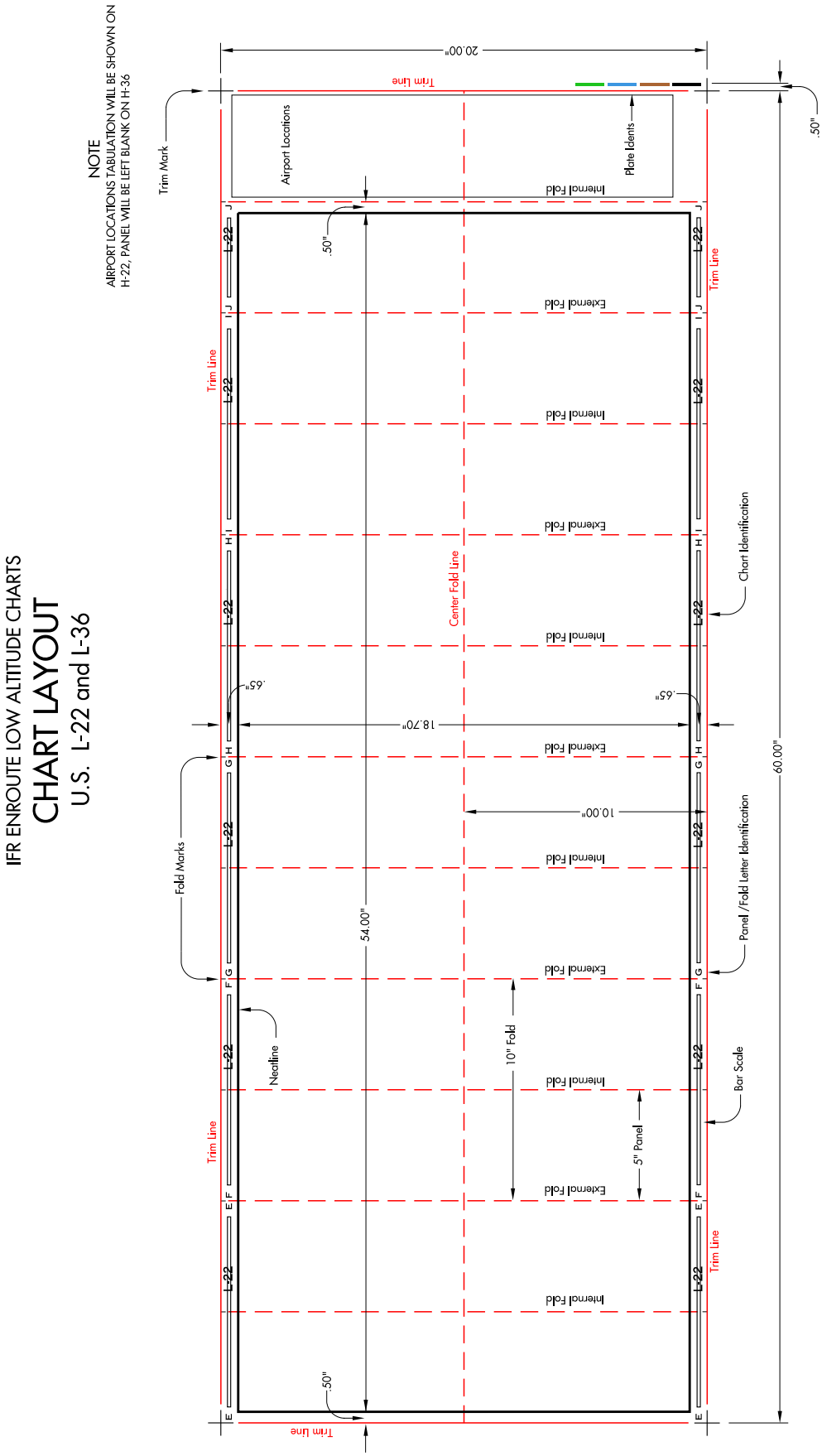
APPENDIX 11
CHART LAYOUT - U.S. L-20 AND L-28



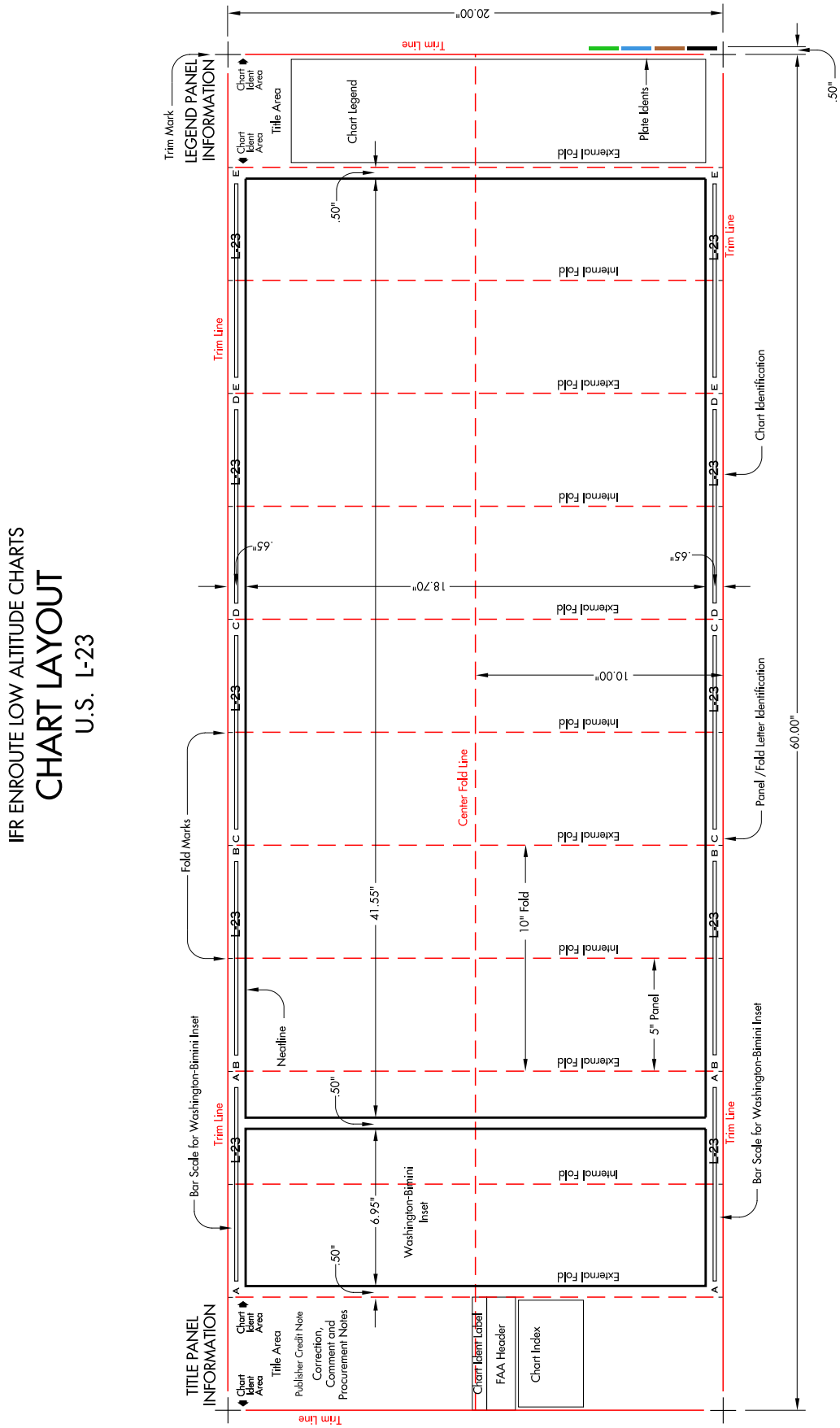
APPENDIX 12
CHART LAYOUT - U.S. L-21, L-33 AND L-35



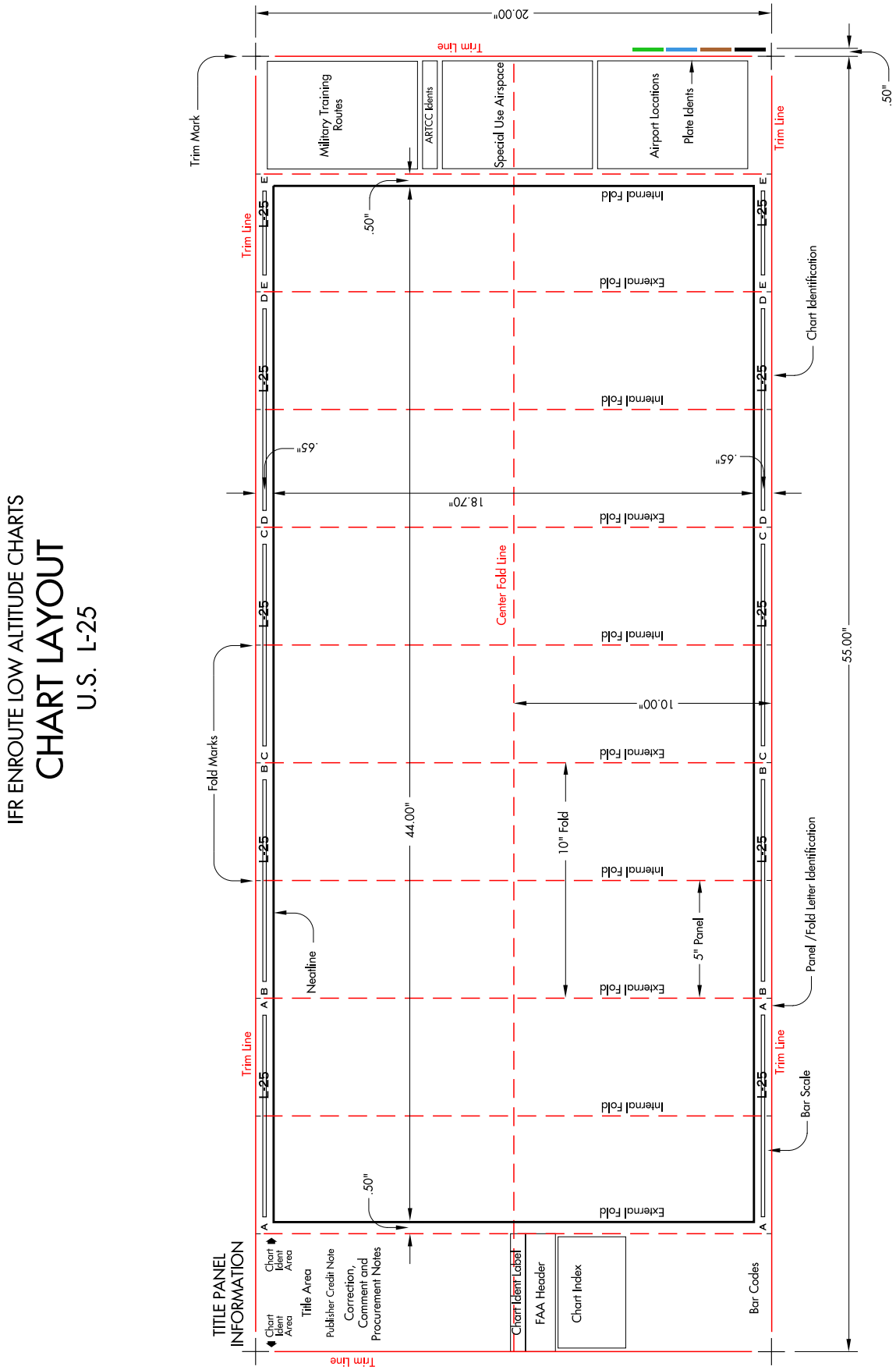
APPENDIX 13
CHART LAYOUT - U.S. L-22 AND L-36



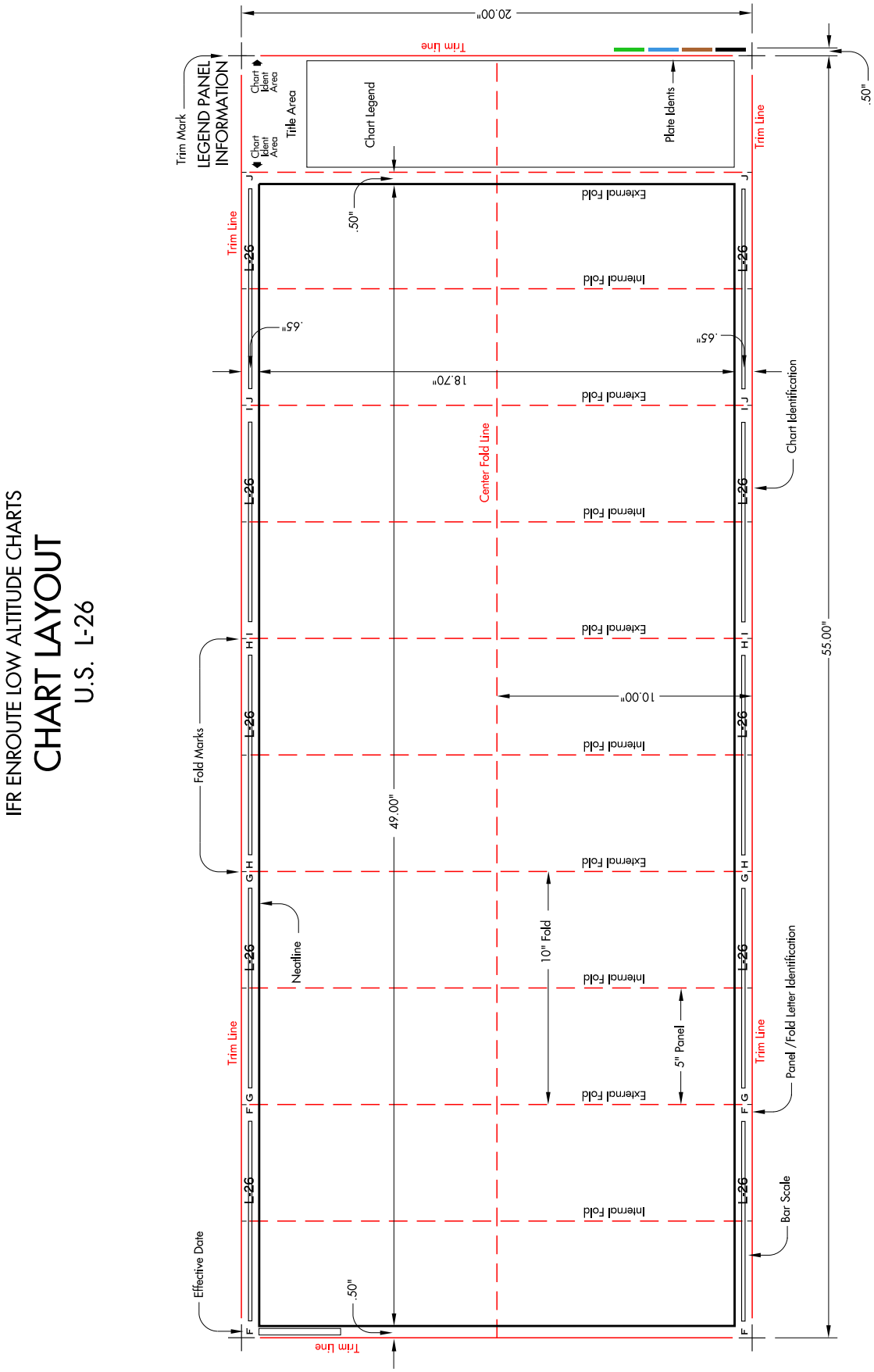
APPENDIX 14
CHART LAYOUT - U.S. L-23



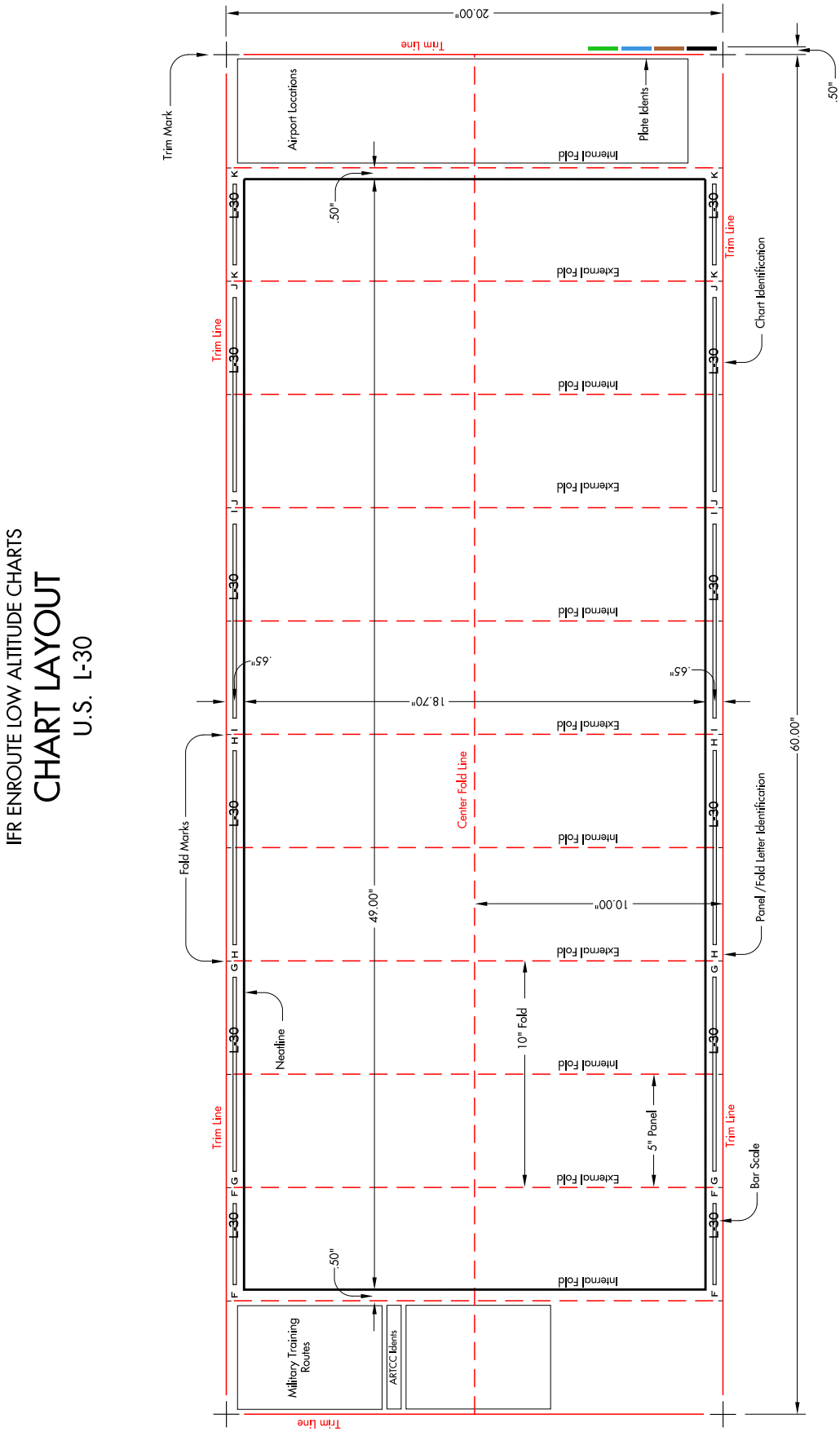
APPENDIX 15
CHART LAYOUT - U.S. L-25



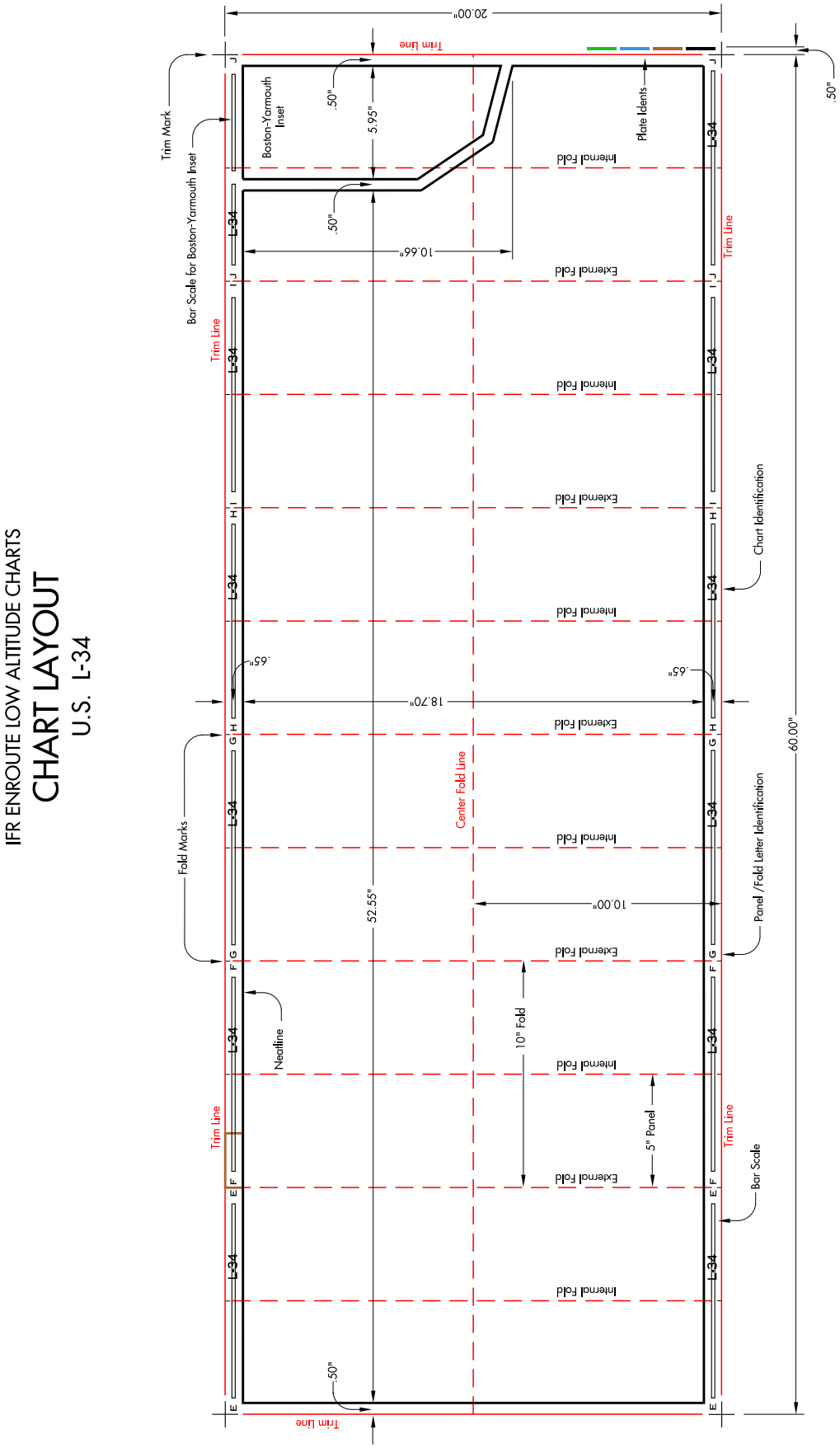
APPENDIX 16
CHART LAYOUT - U.S. L-26



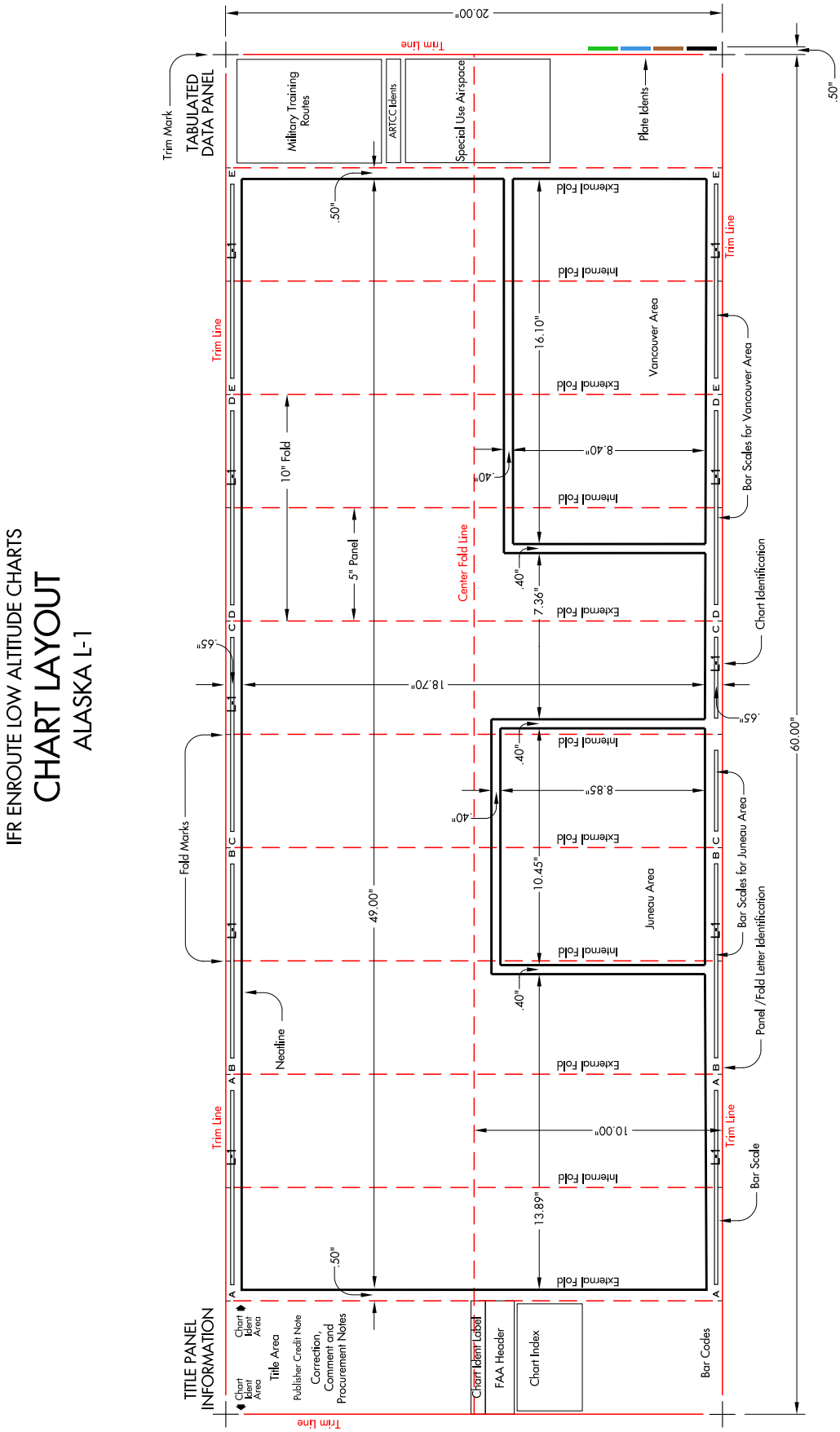
APPENDIX 17
CHART LAYOUT - U.S. L-30



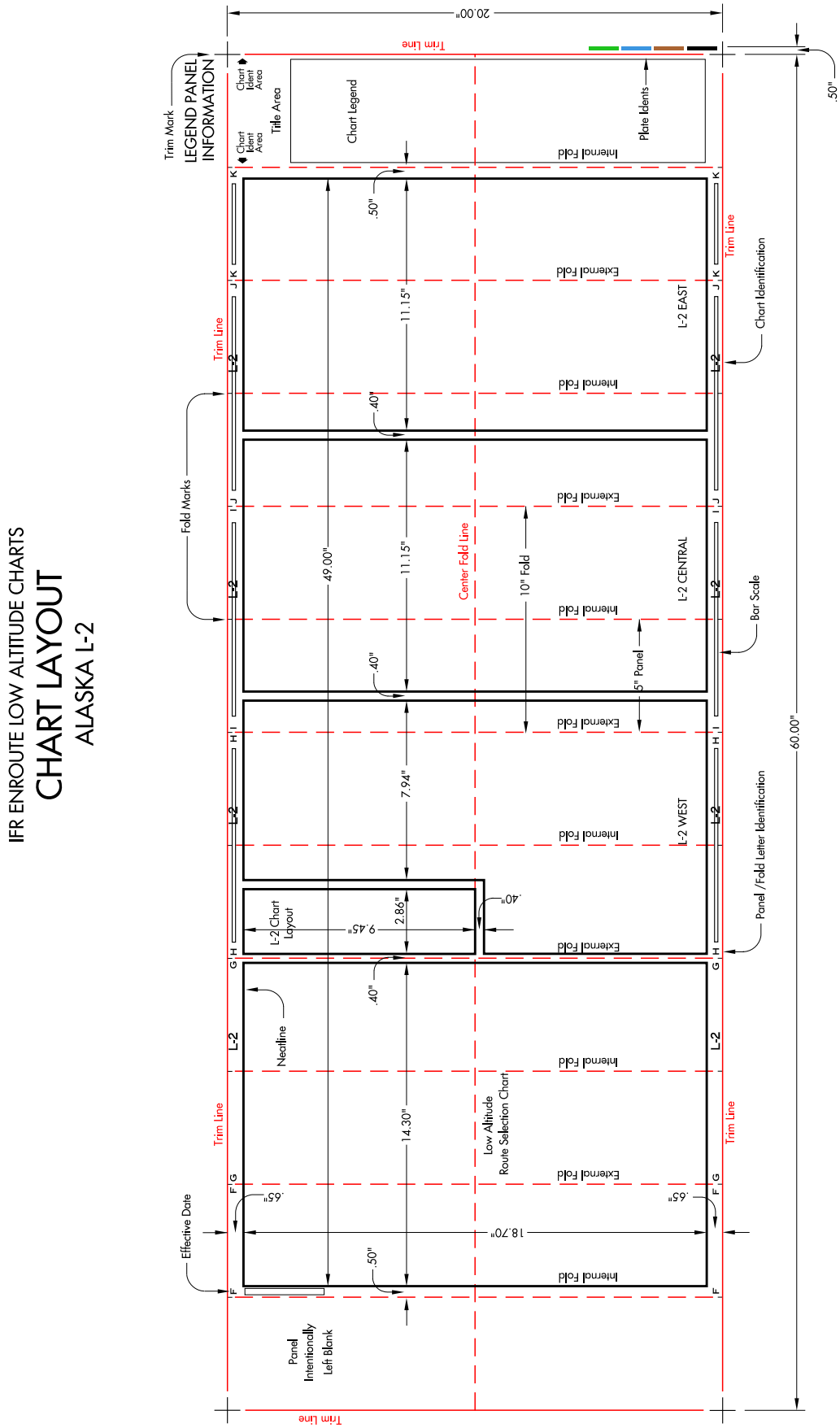
APPENDIX 18
CHART LAYOUT - U.S. L-34



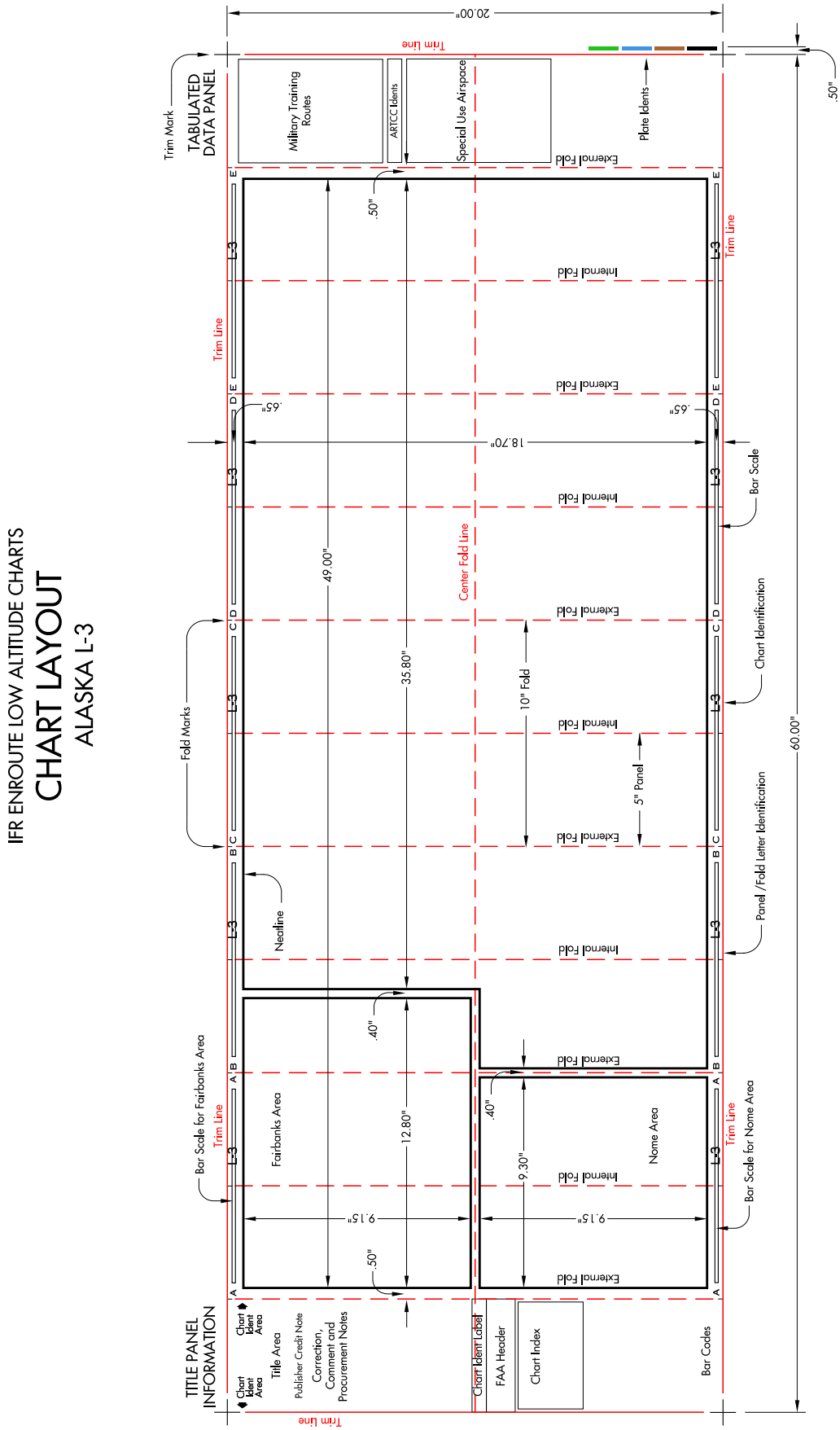
APPENDIX 19
CHART LAYOUT - ALASKA L-1



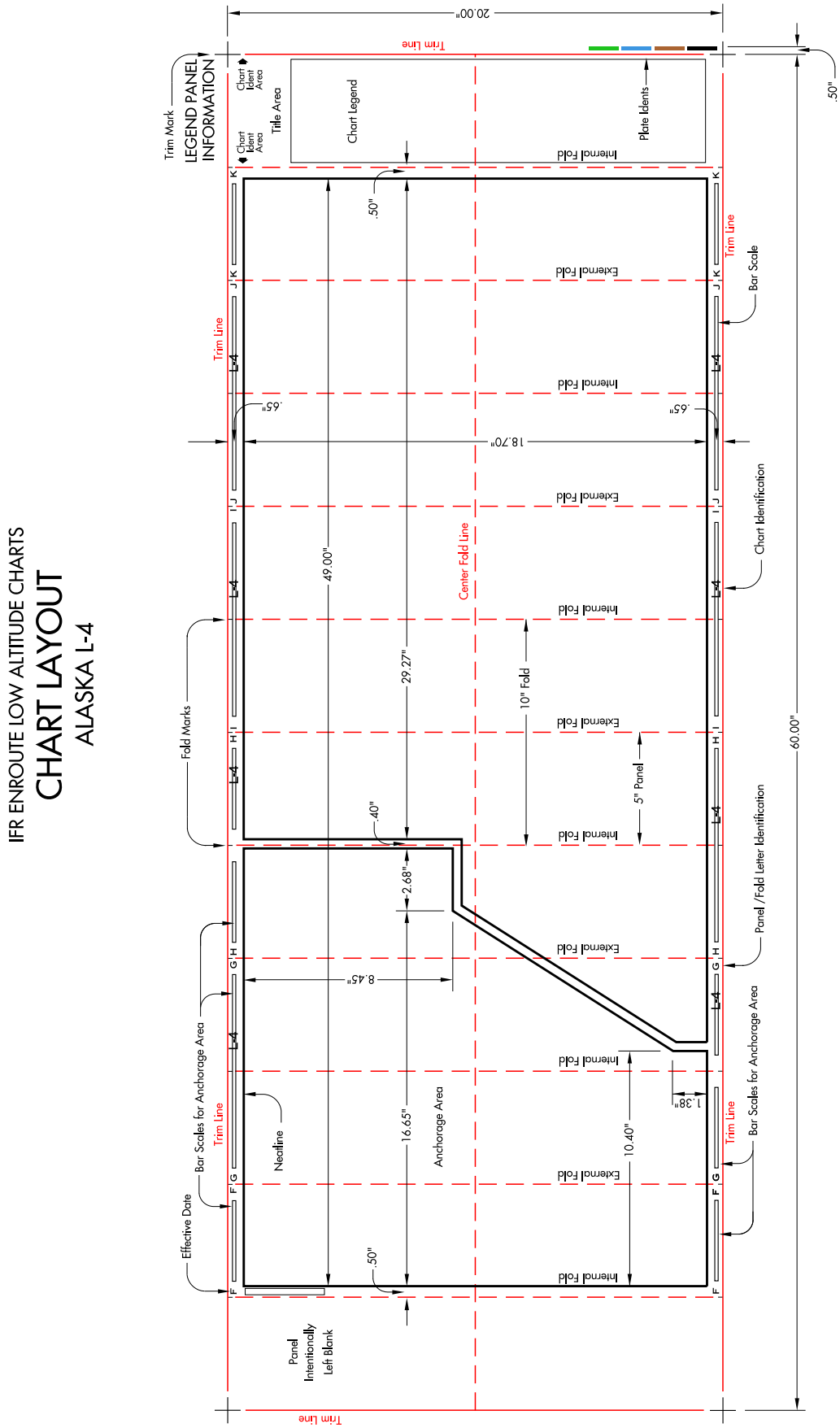
APPENDIX 20
CHART LAYOUT - ALASKA L-2



APPENDIX 21
CHART LAYOUT - ALASKA L-3



APPENDIX 22
CHART LAYOUT - ALASKA L-4



APPENDIX 23
TITLE PANEL INFORMATION - U.S. & ALASKA

TRIM LINE

Warning: Refer to current foreign charts and flight information publications for information within foreign airspace

L-2 PANELS FGHIJ 1°-6 NM

L-1 PANELS ABCDE 1°-6 NM

UNITED STATES GOVERNMENT
FLIGHT INFORMATION PUBLICATION

IFR ENROUTE LOW ALTITUDE - U.S.

For use up to but not including 18,000' MSL

EFFECTIVE 0901Z 10 MAR 2011
TO 0901Z 5 MAY 2011

Consult NOTAMs for latest Information

Published by the
U.S. Department of Transportation
Federal Aviation Administration

Current Orig Name
Current URL

CORRECTIONS, COMMENTS, AND/OR PROCUREMENT

FOR CHARTING ERRORS, OR RECOMMENDATIONS REGARDING FORMAT AND CONTENT CONTACT:

Current Charting Errors, or Recommendations Address

FOR PROCUREMENT CONTACT:

Current Procurement Address

MILITARY

For Corrections Information, See Chapter 11 of General Planning (GP). For Procurement refer to DOD Catalog of Aeronautical Charts and Flight Information Publications.

Frequently asked questions (FAQ) are answered on our web site at http://aeronav.faa.gov
See the FAQs prior to contact via toll free number or email.

ATTENTION

THIS CHART CONTAINS OFF ROUTE OBSTRUCTION CLEARANCE ALTITUDES (OROCA).
The off route obstruction clearance altitudes shown in quadrangles bounded by ticked lines of latitude and longitude are represented in THOUSANDS and HUNDREDS of feet above mean sea level. The OROCA is based on information available concerning the highest known features in each quadrangle, including terrain and obstructions. OROCA provides obstruction clearance with a 1000 foot buffer in designated non-mountainous areas and a 2000 foot buffer in designated mountainous areas within the United States. For areas in Mexico and the Caribbean which are located outside of the U.S. ADIZ, OROCA provides obstruction clearance with a 3000 foot buffer. This altitude is provided for obstruction clearance only. It does not provide for NAVAID signal coverage or communication coverage, and would not be consistent with altitudes assigned by Air Traffic Control.

Example: 12,500 feet ..... 12^{5}

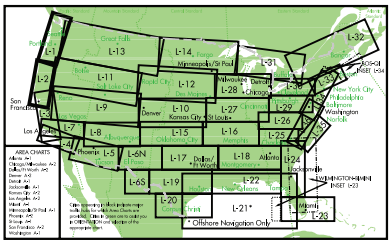
FOLD LINE

CENTER FOLD LINE

L 1

10 MAR 2011
UNITED STATES

Federal Aviation Administration



PUBLISHED IN ACCORDANCE WITH INTERAGENCY AIR CARTOGRAPHIC COMMITTEE SPECIFICATIONS AND AGREEMENTS, APPROVED BY: DEPARTMENT OF DEFENSE • FEDERAL AVIATION ADMINISTRATION

FAA Product ID: ELUS1
NSN 7641014109653
NGA REF. NO.: ENRXXUSLCHT01
EFF. DATE 11069

TRIM LINE

TRIM LINE

Warning: Refer to current foreign charts and flight information publications for information within foreign airspace

L-2 PANELS FGHIJK 1°-25 NM

L-1 PANELS ABCDE 1°-25 NM

UNITED STATES GOVERNMENT
FLIGHT INFORMATION PUBLICATION

IFR ENROUTE LOW ALTITUDE - ALASKA

For use up to but not including 18,000' MSL

EFFECTIVE 0901Z 10 MAR 2011
TO 0901Z 5 MAY 2011

Consult NOTAMs for latest Information

Published by the
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Current Orig Name
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Frequently asked questions (FAQ) are answered on our web site at http://aeronav.faa.gov
See the FAQs prior to contact via toll free number or email.

CHART NOTICE

Implementation of Instrument Flight Rules (IFR)
Area Navigation (RNAV) Operations Using
Global Positioning System (GPS) in Alaska

Under SFAR No. 97, operators using IFR-certified TSO C145a and TSO C146a GPS/WAAS navigation systems will be permitted to conduct operations over selected routes in AK beyond the service volume of ground-based navaids at the lowest minimum en route altitude (MEA) based only on route obstacle assessments and ATC two-way voice communication capability.

The MEAs for these routes will be depicted on the IFR Enroute Low Altitude-AK charts in blue type with a 'G' suffix. For instance, a GPS MEA of 2000 feet MSL will be depicted as "2000G" in blue. Standard MEAs will be depicted in black type and be 'stacked' above the GPS MEA.

See SFAR No. 97 for equipment, training and operational requirements.

ATTENTION

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The off route obstruction clearance altitudes shown in quadrangles bounded by ticked lines of latitude and longitude are represented in THOUSANDS and HUNDREDS of feet above mean sea level. The OROCA is based on information available concerning the highest known features in each quadrangle, including terrain and obstructions. OROCA provides obstruction clearance with a 1000 foot buffer in designated non-mountainous areas and a 2000 foot buffer in designated mountainous areas within the United States. For areas in Mexico and the Caribbean which are located outside of the U.S. ADIZ, OROCA provides obstruction clearance with a 3000 foot buffer. This altitude is provided for obstruction clearance only. It does not provide for NAVAID signal coverage or communication coverage, and would not be consistent with altitudes assigned by Air Traffic Control.

Example: 12,500 feet ..... 12^{5}

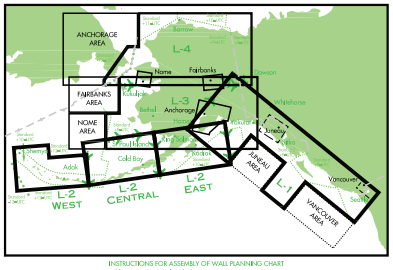
FOLD LINE

CENTER FOLD LINE

L-1/L-2

10 MAR 2011
ALASKA

Federal Aviation Administration



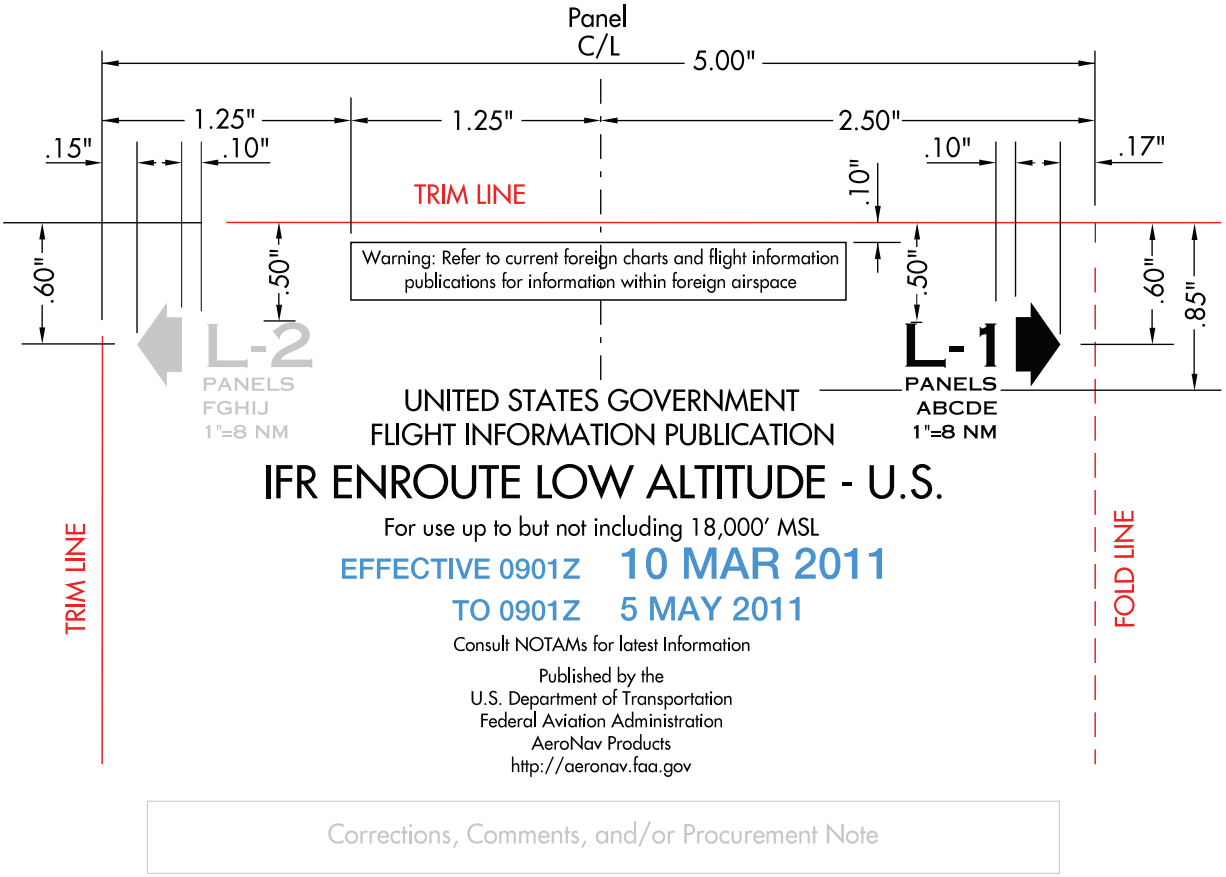
INSTRUCTIONS FOR ASSEMBLY OF WALL PLANNING CHART
Obtain two copies of each chart
Assemble charts by matching airplane silhouettes printed on each chart

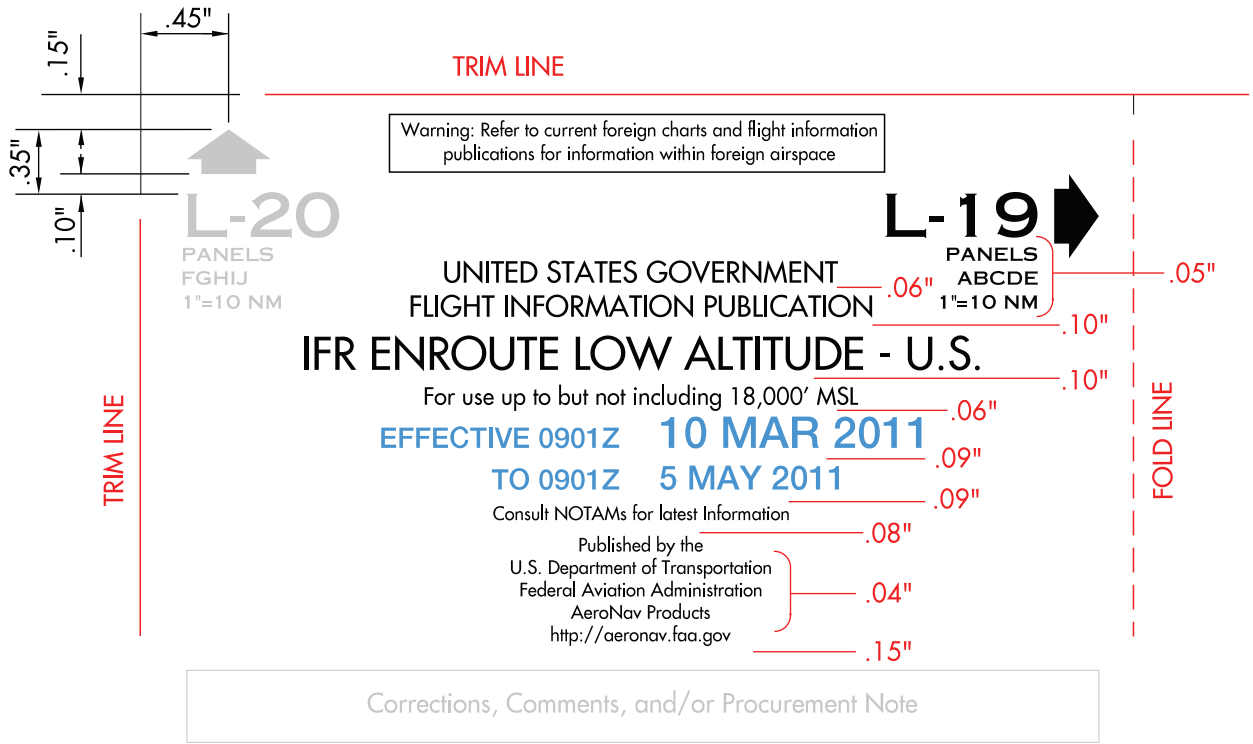
PUBLISHED IN ACCORDANCE WITH INTERAGENCY AIR CARTOGRAPHIC COMMITTEE SPECIFICATIONS AND AGREEMENTS, APPROVED BY: DEPARTMENT OF DEFENSE • FEDERAL AVIATION ADMINISTRATION

FAA Product ID: ELAK1
NSN 7641014970163
NGA REF. NO.: ENRXXAKLCHT01
EFF. DATE 11069

TRIM LINE

APPENDIX 24
CHART IDENTIFICATION & TITLE PANEL AREA LAYOUT - U.S. & ALASKA



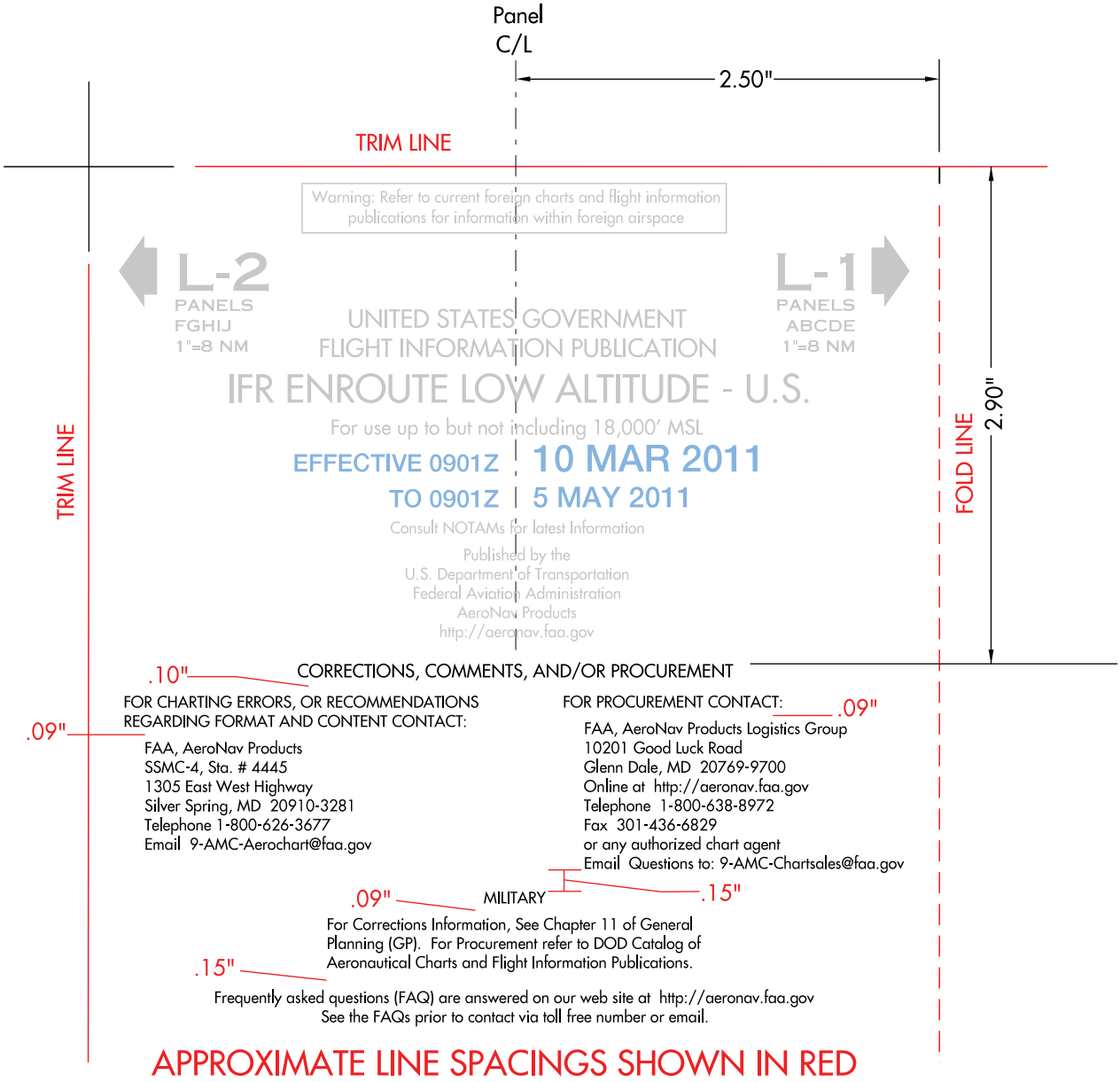


APPROXIMATE LINE SPACINGS SHOWN IN RED

APPENDIX 24
CHART IDENTIFICATION & TITLE PANEL AREA LAYOUT - U.S. & ALASKA (CONTINUED)

TITLE PANEL - LOW ENROUTE CHARTS					
Foreign Airspace Warning Text Box Lineweight & Color	C/L	.07" Futura Medium/Black .008"/Black		Warning: Refer to current foreign...	
Chart Identification Area		Even Numbers	Odd Numbers	Even Numbers	Odd Numbers
Chart Idents Text Color	CAPS	.23" Copperplate Gothic 31 45% Black	Black	L-2	L-1
Arrowheads		45% Black	Black		
Panel Identifications Text Color	CAPS	.07" Copperplate Gothic 31 45% Black	Black	PANELS FGHIJ	PANELS ABCDE
Chart Scales Text Color	CAPS	.07" Copperplate Gothic 31 45% Black	Black	1"=8 NM	1"=8 NM
Chart Title First and Second Lines Third Line Altitude Note	CAPS CAPS	.11" Futura Medium/Black .17" Futura Medium/Black .09" Futura Medium/Black		UNITED STATES... IFR ENROUTE... For use up to but not...	
Effective Date & Times Note Effective Time Effective Date Expiration Time Expiration Date	CAPS CAPS CAPS CAPS	.11" Helvetica 65 Medium/Solid Blue .17" Helvetica 65 Medium/Solid Blue .11" Helvetica 65 Medium/Solid Blue .13" Helvetica 65 Medium/Solid Blue		EFFECTIVE 0901Z 18 NOV 2010 TO 0901Z 13 JAN 2011	
NOTAM Note Publishers Credit Note	C/L	.07" Futura Medium/Black .07" Futura Medium/Black		Consult NOTAMs for latest Information Published by the U.S. Department of Transportation	

APPENDIX 25
CORRECTIONS, COMMENTS AND/OR PROCUREMENT AREA LAYOUT - U.S. & ALASKA



CORRECTIONS, COMMENTS AND/OR PROCUREMENT NOTES			
Main Heading	CAPS	.08" Futura Medium/Black	CORRECTIONS, COMMENTS, AND...
Secondary Headings	CAPS	.07" Futura Medium/Black	FOR CHARTING ERRORS, OR...
Other Text	C/L	.07" Futura Medium/Black	FAA, AeroNav Products For Corrections Information...
Frequently Asked Questions	Lowercase	.07" Futura Medium/Black	Frequently asked questions (FAQ)...

APPENDIX 26
OROCA NOTICE

ATTENTION

THIS CHART CONTAINS OFF ROUTE OBSTRUCTION CLEARANCE ALTITUDES (OROCA).
The off route obstruction clearance altitudes shown in quadrangles bounded by ticked lines of latitude and longitude are represented in THOUSANDS and HUNDREDS of feet above mean sea level. The OROCA is based on information available concerning the highest known features in each quadrangle, including terrain and obstructions. OROCA provides obstruction clearance with a 1000 foot buffer in designated non-mountainous areas and a 2000 foot buffer in designated mountainous areas within the United States. For areas in Mexico and the Caribbean which are located outside of the U.S. ADIZ, OROCA provides obstruction clearance with a 3000 foot buffer. This altitude is provided for obstruction clearance only. It does not provide for NAVAID signal coverage or communication coverage, and would not be consistent with altitudes assigned by Air Traffic Control.

Example: 12,500 feet 12 5

OROCA NOTICE			
Main Heading	CAPS	.09" Futura Medium/Black	ATTENTION
First Line	CAPS	.07" Futura Medium/Black	THIS CHART CONTAINS OFF ROUTE...
Remaining Text	Lowercase	.07" Futura Medium/Black	The off route obstruction clearance ...
Example			
Text	Lowercase	.07" Futura Medium/Black	Example: 12,500 feet ..
OROCA			
Thousands of feet		.36" Futura Medium/25% Brown	12 5
Hundreds of feet		.16" Futura Medium/25% Brown	
Box Lineweight		.007"/Black	

APPENDIX 27
SFAR NO. 97 CHART NOTICE - ALASKA

CHART NOTICE

Implementation of Instrument Flight Rules (IFR)
Area Navigation (RNAV) Operations Using
Global Positioning System (GPS) in Alaska

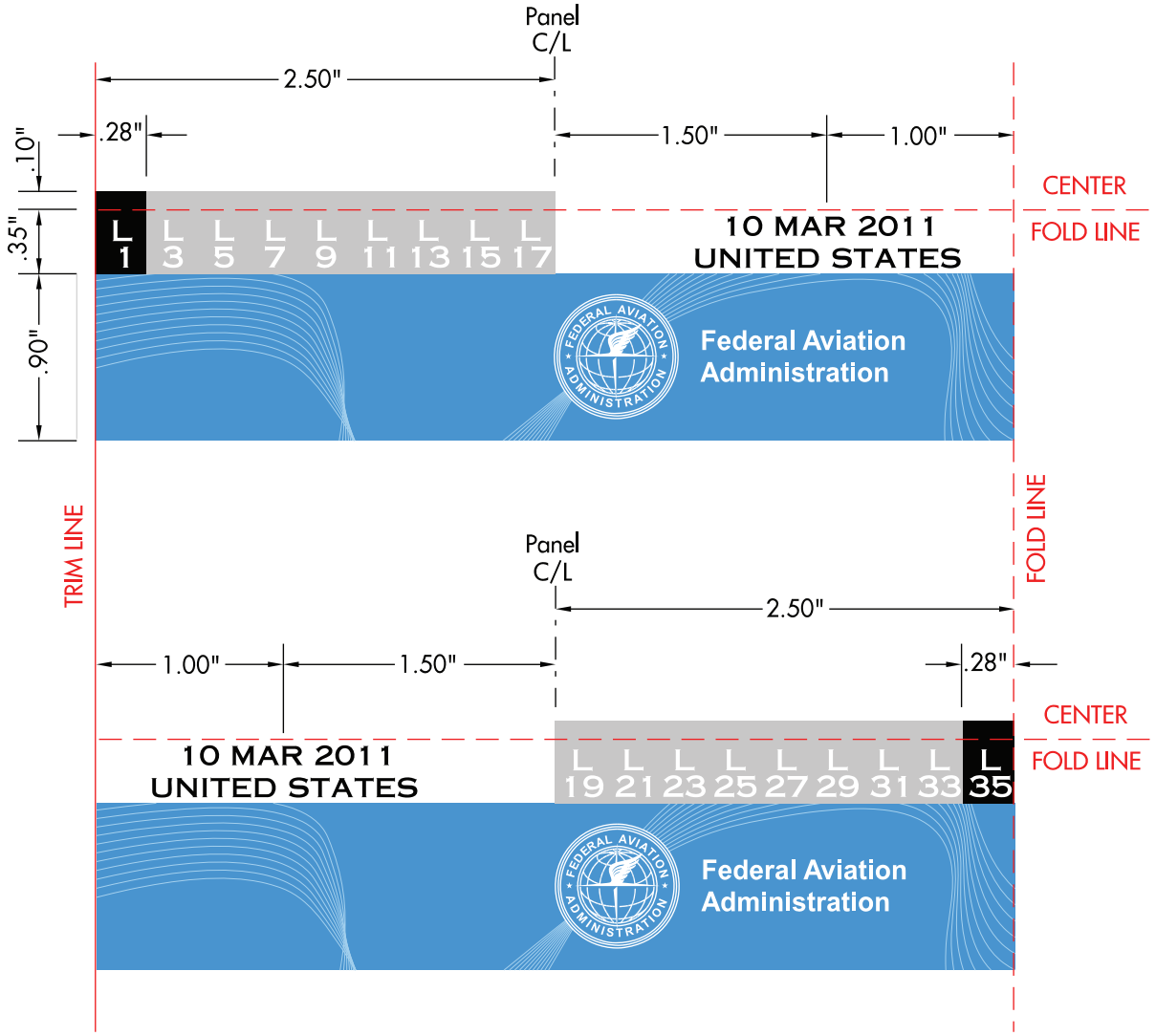
Under SFAR No. 97, operators using IFR-certified TSO C145a and TSO C146a GPS/WAAS navigation systems will be permitted to conduct operations over selected routes in AK beyond the service volume of ground-based navaids at the lowest minimum en route altitude (MEA) based only on route obstacle assessments and ATC two-way voice communication capability.

The MEAs for these routes will be depicted on the IFR Enroute Low Altitude-AK charts in blue type with a 'G' suffix. For instance, a GPS MEA of 2000 feet MSL will be depicted as "2000G" in blue. Standard MEAs will be depicted in black type and be 'stacked' above the GPS MEA.

See SFAR No. 97 for equipment, training and operational requirements.

SFAR NO. 97 - CHART NOTICE			
Title	CAPS	.09" Futura Medium/Black	CHART NOTICE
Content			
First Paragraph	C/L	.08" Futura Medium/Black	Implementation of Instrument...
Remaining Paragraphs		.07" Futura Medium/Black	Under SFAR No. 97, operators...
Box Lineweight		.007"/Black	

APPENDIX 28
CHART IDENTIFICATION LABELS - U.S., ALASKA & AREA CHARTS



NOTE: All U.S. IFR Enroute Low Altitude chart indentifications are .28" in width.

APPENDIX 28
CHART IDENTIFICATION LABELS - U.S., ALASKA & AREA CHARTS (CONTINUED)

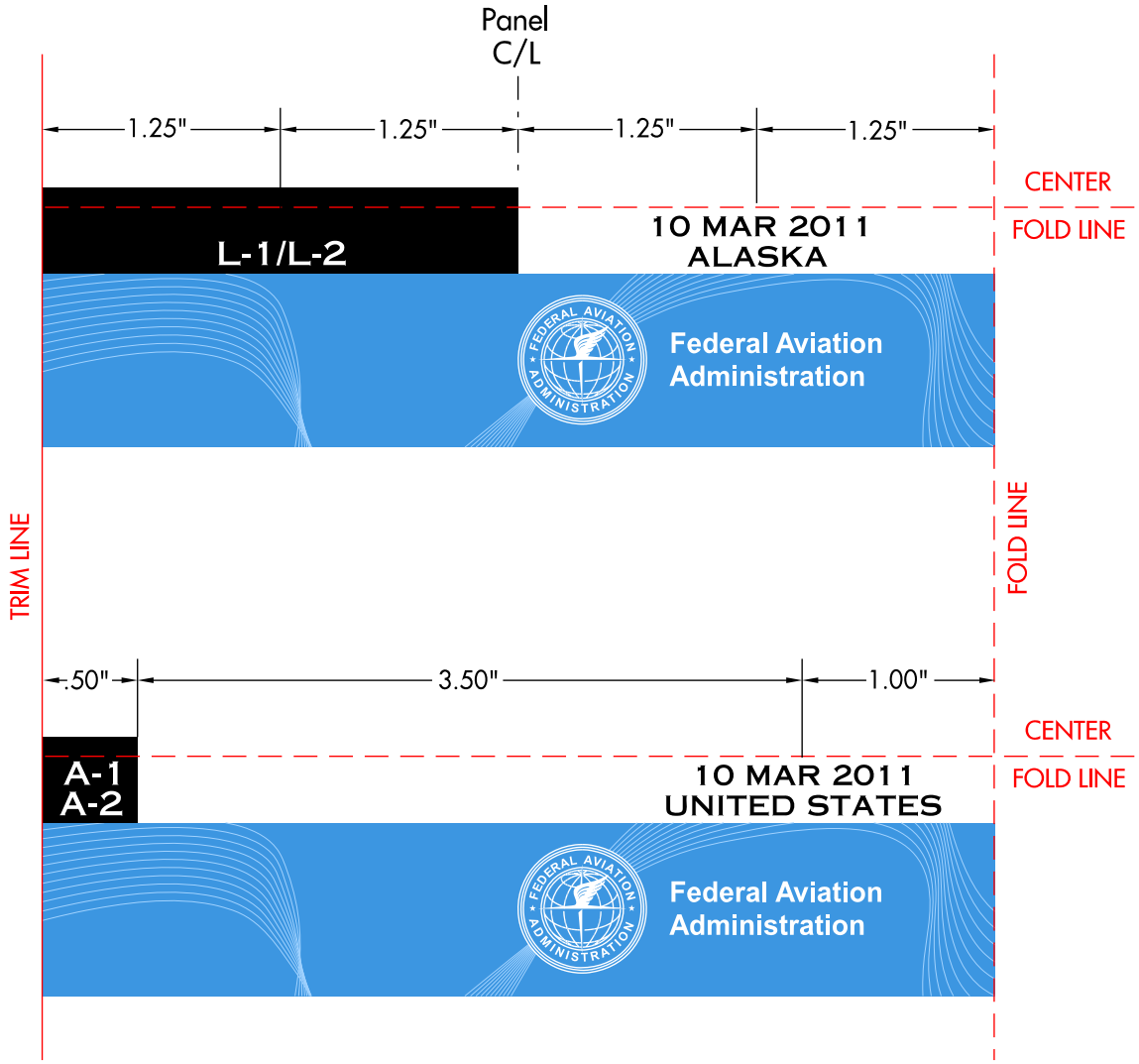
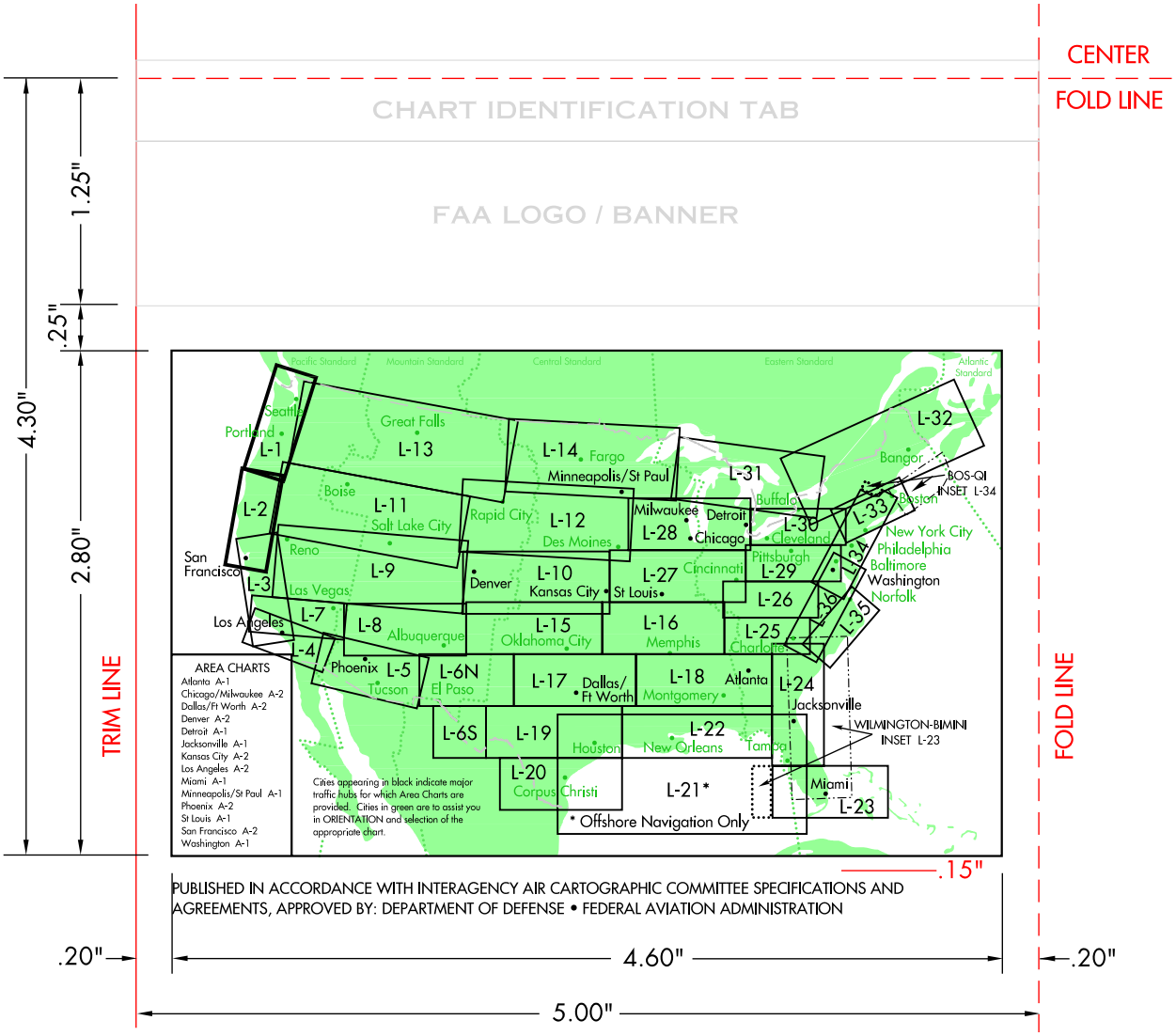
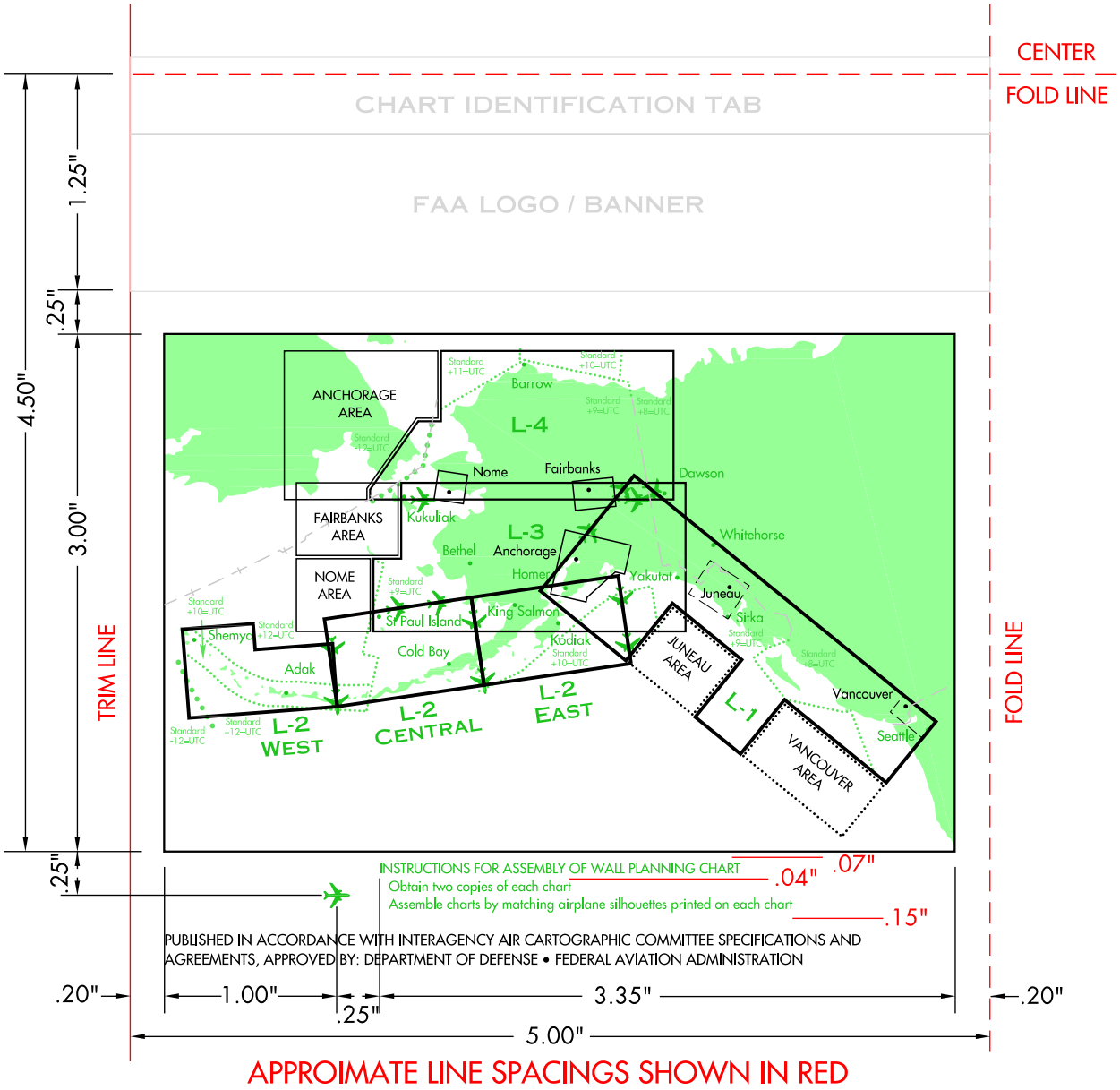


CHART IDENTIFICATION LABELS			
Chart Numbers Area & U.S.	CAPS	.12" Copperplate Gothic 31	L 1 A-1 A-2
Alaska	CAPS	.12" Copperplate Gothic 31	L-1/L-2
Chart Effective Date	CAPS	.11" Copperplate Gothic 31/Black	10 MAR 2011
Area of Coverage	CAPS	.11" Copperplate Gothic 31/Black	UNITED STATES

APPENDIX 29
CHART INDEXES - DIMENSIONS - U.S.



APPENDIX 30
CHART INDEXES - DIMENSIONS - ALASKA



APPENDIX 31
CHART INDEXES - U.S. AND ALASKA

CHART INDEXES - U.S. & ALASKA - COMMON ITEMS			
Cities			
Prominent Cities			
Symbol		.025" Diameter/Green	•
Name	C/L	.06" Futura Medium/Green	Cold Bay
Area Chart Cities			
Symbol		.025" Diameter/Black	•
Name	C/L	.06" Futura Medium/Black	Anchorage
Borders & Outlines			
Chart Index Border		.015"/Black	
Selected Charts			
Enroute Chart Coverage Border		.020"/Black	
Inset Chart Coverage Border		.015"/Black	
Time Zone Boundary			
Name	C/L	.04" Futura Medium/45% Green	Eastern Standard
Boundary		.015" Diameter/45% Green	
International Boundary		.008"/45% Black	
Land Areas		10% Green	
IACC Credit Note	CAPS	.065" Futura Medium/Black	PUBLISHED IN ACCORDANCE WITH...
CHART INDEXES - U.S. - UNIQUE ITEMS			
Chart Identificaton	CAPS	.08" Futura Medium/Black	L-21
Borders & Outlines			
Selected Charts			
Inset Chart Coverage Border		.020"/Black	
Non-Selected Charts			
Enroute Chart Coverage Border		.010"/Black	
Area Chart List Border		.012"/Black	
Area Chart List			
Title	CAPS	.05" Futura Medium/Black	AREA CHARTS
City Names	C/L	.04" Futura Medium/Black	Chicago/Milwaukee A-2
Inset Chart Title	CAPS	.05" Futura Medium/Black	WILMINGTON-BIMINI INSET L-23
Leader Line		.007"/Black	←
Offshore Navigation Note	C/L	.065" Futura Medium/Black	* Offshore Navigation Only
Area Chart Cities Note	Lowercase	.04" Futura Medium/Black	Cities appearing in black indicate...

APPENDIX 31
CHART INDEXES - U.S. AND ALASKA

CHART INDEXES - ALASKA - UNIQUE ITEMS			
Chart Identificaton			
Title	C/L	.09" Copperplate Gothic 31/Green	L-2 CENTRAL
Borders & Outlines			
Selected Charts			
Inset Chart Coverage Border		.005"/Black	
Non-Selected Charts			
Enroute Chart Outlines		.015"/Black	
Inset Chart Coverage Border		.008"/Black	
Inset Chart Title	CAPS	.05" Futura Medium/Black	NOME AREA
International Date Line		.030" Diameter/45% Green	
US/Russia Maritime Boundary		.008"/45% Black	
Wall Planning Chart			
Registration Mark		Green	
Title	CAPS	.06" Futura Medium/45% Green	INSTRUCTIONS FOR ASSEMBLY...
Text	Lowercase	.06" Futura Medium/45% Green	Obtain two copies of each chart...

APPENDIX 32
BAR CODES

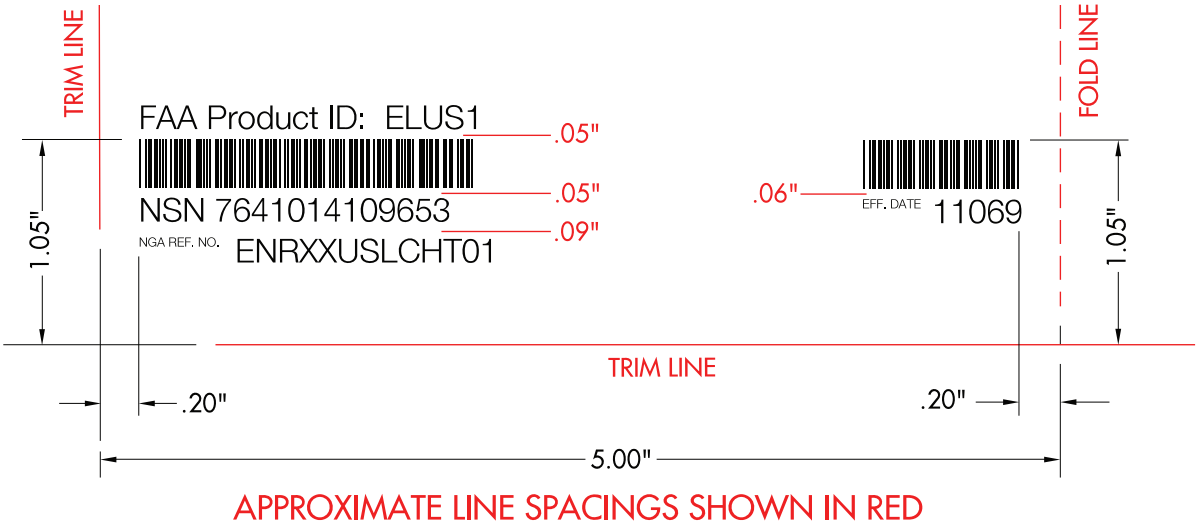
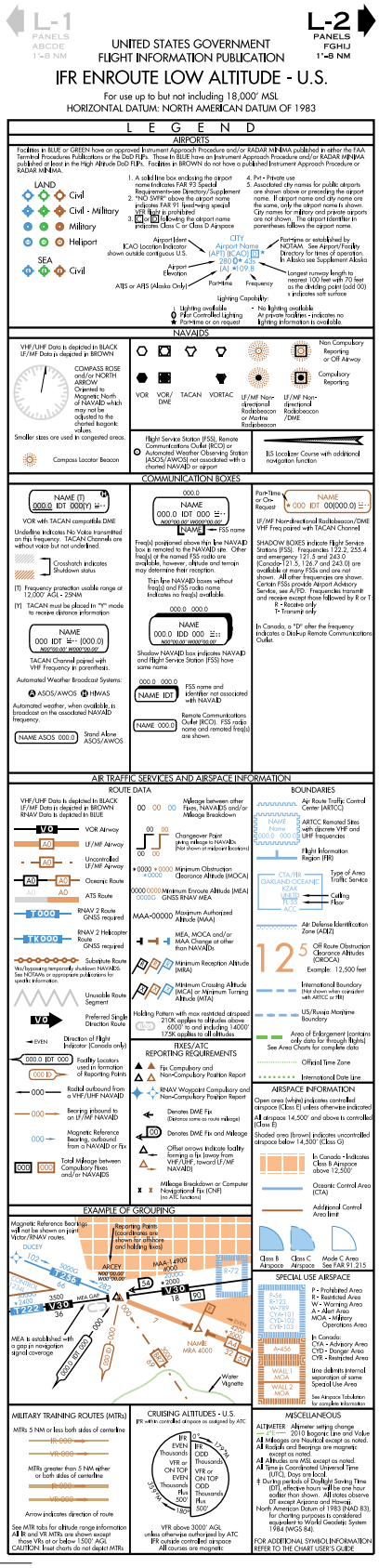
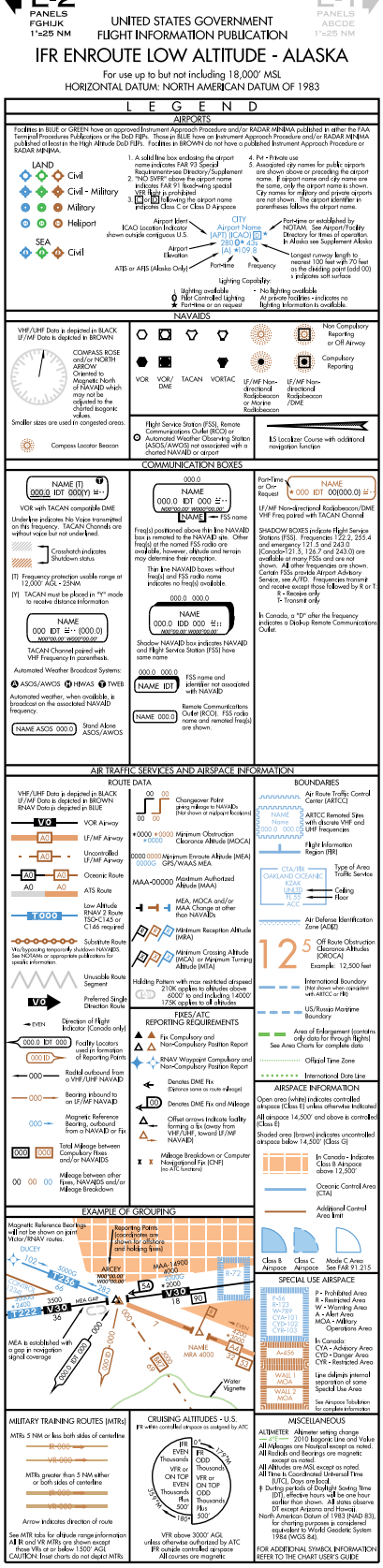


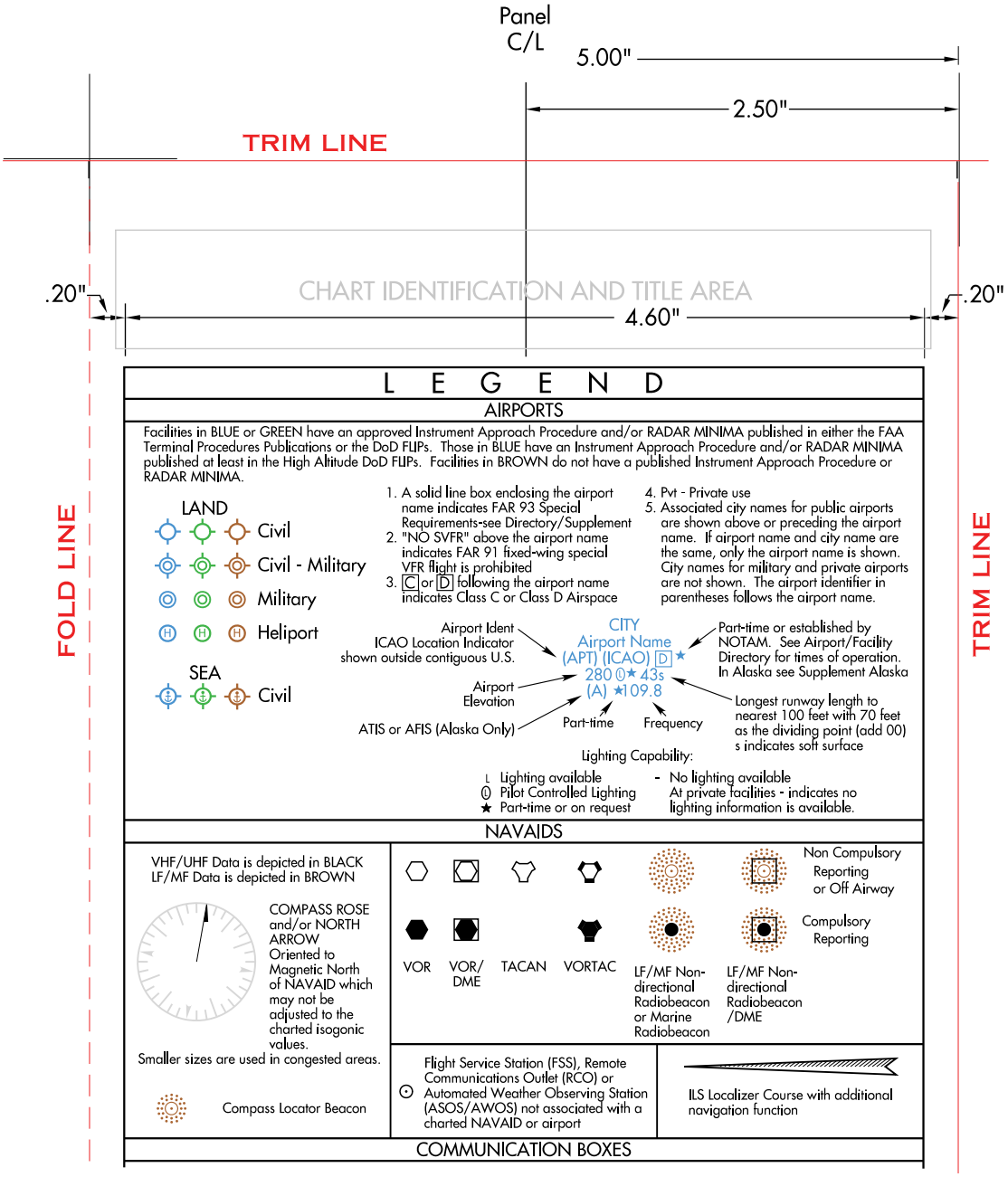
CHART BAR CODES			
FAA Product ID	C/L	.13" Helvetica Light 45/Black	FAA Product ID: ELUS1
NSN Number	CAPS	.13" Helvetica Light 45/Black	NSN 7641014109653
"NGA Ref. No." Text	CAPS	.05" Helvetica Light 45/Black	NGA REF. NO.
NGA Reference Number	CAPS	.13" Helvetica Light 45/Black	ENRXXUSLCHT01
"Eff. Date" Text	CAPS	.05" Helvetica Light 45/Black	EFF. DATE
Julian Date		.13" Helvetica Light 45/Black	11069
Bar Code		.15" w39m/Black	

APPENDIX 33
LEGEND PANEL - U.S. AND ALASKA





APPENDIX 34
LEGEND PANEL - DIMENSIONS - U.S. AND ALASKA CHARTS



APPENDIX 35
LEGEND PANEL INFORMATION - U.S.

TRIM LINE

FOLD LINE

TRIM LINE

CHART IDENTIFICATION AND TITLE AREA

L E G E N D

AIRPORTS

Facilities in BLUE or GREEN have an approved Instrument Approach Procedure and/or RADAR MINIMA published in either the FAA Terminal Procedures Publications or the DoD FLIPs. Those in BLUE have an Instrument Approach Procedure and/or RADAR MINIMA published at least in the High Altitude DoD FLIPs. Facilities in BROWN do not have a published Instrument Approach Procedure or RADAR MINIMA.

LAND
- Civil
- Civil - Military
- Military
- Heliport

SEA
- Civil

1. A solid line box enclosing the airport name indicates FAR 93 Special Requirements-see Directory/Supplement
2. "NO SVFR" above the airport name indicates FAR 91 fixed-wing special VFR flight is prohibited
3. C or D following the airport name indicates Class C or Class D Airspace
4. Pvt - Private use
5. Associated city names for public airports are shown above or preceding the airport name. If airport name and city name are the same, only the airport name is shown. City names for military and private airports are not shown. The airport identifier in parentheses follows the airport name.

CITY
Airport Name
(APT) (ICAO) D ★
280 ⓪★ 43s
(A) ★109.8

- Airport Ident / ICAO Location Indicator shown outside contiguous U.S.
- Part-time or established by NOTAM. See Airport/Facility Directory for times of operation. In Alaska see Supplement Alaska
- Airport Elevation
- Longest runway length to nearest 100 feet with 70 feet as the dividing point (add 00) s indicates soft surface
- ATIS or AFIS (Alaska Only)
- Part-time
- Frequency

Lighting Capability:
- L Lighting available
- ⓪ Pilot Controlled Lighting
- ★ Part-time or on request
- \- No lighting available. At private facilities - indicates no lighting information is available.

NAVAIDS

VHF/UHF Data is depicted in BLACK
LF/MF Data is depicted in BROWN

COMPASS ROSE and/or NORTH ARROW Oriented to Magnetic North of NAVAID which may not be adjusted to the charted isogonic values.
Smaller sizes are used in congested areas.

Compass Locator Beacon

VOR | VOR/DME | TACAN | VORTAC | LF/MF Non-directional Radiobeacon or Marine Radiobeacon | LF/MF Non-directional Radiobeacon /DME

Non Compulsory Reporting or Off Airway

Compulsory Reporting

Flight Service Station (FSS), Remote Communications Outlet (RCO) or Automated Weather Observing Station (ASOS/AWOS) not associated with a charted NAVAID or airport

ILS Localizer Course with additional navigation function

COMMUNICATION BOXES

NAME (T) H
000.0 IDT 000(Y)

VOR with TACAN compatible DME

Underline indicates No Voice transmitted on this frequency. TACAN Channels are without voice but not underlined.

Crosshatch indicates Shutdown status

(T) Frequency protection usable range at 12,000' AGL - 25NM

(Y) TACAN must be placed in "Y" mode to receive distance information

NAME
000 IDT (000.0)
N00°00.00' W000°00.00'

TACAN Channel paired with VHF Frequency in parenthesis.

Automated Weather Broadcast Systems:

A ASOS/AWOS H HIWAS

Automated weather, when available, is broadcast on the associated NAVAID frequency.

NAME ASOS 000.0 — Stand Alone ASOS/AWOS

000.0
NAME
000.0 IDT 000
N00°00.00' W000°00.00'
NAME ← FSS name

Freq(s) positioned above thin line NAVAID box is remoted to the NAVAID site. Other freq(s) at the named FSS radio are available, however, altitude and terrain may determine their reception.

Thin line NAVAID boxes without freq(s) and FSS radio name indicates no freq(s) available.

000.0 000.0
NAME
000.0 IDD 000
N00°00.00' W000°00.00'

Shadow NAVAID box indicates NAVAID and Flight Service Station (FSS) have same name

000.0 000.0
NAME IDT — FSS name and identifier not associated with NAVAID

NAME 000.0 — Remote Communications Outlet (RCO). FSS radio name and remoted freq(s) are shown.

Part-Time or On-Request
NAME
★ 000 IDT 00(000.0)

LF/MF Non-directional Radiobeacon/DME VHF Freq paired with TACAN Channel

SHADOW BOXES indicate Flight Service Stations (FSS). Frequencies 122.2, 255.4 and emergency 121.5 and 243.0 (Canada-121.5, 126.7 and 243.0) are available at many FSSs and are not shown. All other frequencies are shown. Certain FSSs provide Airport Advisory Service, see A/FD. Frequencies transmit and receive except those followed by R or T:
R - Receive only
T- Transmit only

In Canada, a "D" after the frequency indicates a Dial-up Remote Communications Outlet.

Continued on Legend Panel Information - U.S. (2)

APPENDIX 35
LEGEND PANEL INFORMATION - U.S. (CONTINUED)

Continued from Legend Panel Information - U.S. (1)

FOLD LINE

AIR TRAFFIC SERVICES AND AIRSPACE INFORMATION

ROUTE DATA

VHF/UHF Data is depicted in BLACK
LF/MF Data is depicted in BROWN
RNAV Data is depicted in BLUE

- V0 — VOR Airway
- A0 — LF/MF Airway
- A0 — Uncontrolled LF/MF Airway
- A0 A0 — Oceanic Route
- A0 A0 — ATS Route
- T000 — RNAV 2 Route GNSS required
- TK000 — RNAV 2 Helicopter Route GNSS required
- Substitute Route
  Via/bypassing temporarily shutdown NAVAIDS. See NOTAMs or appropriate publications for specific information.
- Unusable Route Segment
- V0 — Preferred Single Direction Route
- EVEN — Direction of Flight Indicator (Canada only)
- 000.0 IDT 000 / 000 ID — Facility Locators used in formation of Reporting Points
- 000 — Radial outbound from a VHF/UHF NAVAID
- 000 — Bearing inbound to an LF/MF NAVAID
- 000 — Magnetic Reference Bearing, outbound from a NAVAID or Fix
- 000 000 — Total Mileage between Compulsory Fixes and/or NAVAIDS

- 00 00 00 — Mileage between other Fixes, NAVAIDS and/or Mileage Breakdown
- 00 00 / 00 00 — Changeover Point giving mileage to NAVAIDs (Not shown at midpoint locations)
- *0000 *0000 / *0000 — Minimum Obstruction Clearance Altitude (MOCA)
- 0000 0000 / 0000G — Minimum Enroute Altitude (MEA) / GNSS RNAV MEA
- MAA-00000 — Maximum Authorized Altitude (MAA)
- MEA, MOCA and/or MAA Change at other than NAVAIDs
- R R R — Minimum Reception Altitude (MRA)
- X X X — Minimum Crossing Altitude (MCA) or Minimum Turning Altitude (MTA)
- Holding Pattern with max restricted airspeed (IAS) 210K applies to altitudes above 6000′ to and including 14000′ 175K applies to all altitudes

FIXES/ATC REPORTING REQUIREMENTS

- Fix Compulsory and Non-Compulsory Position Report
- RNAV Waypoint Compulsory and Non-Compulsory Position Report
- Denotes DME Fix (Distance same as route mileage)
- 00 — Denotes DME Fix and Mileage
- Offset arrows indicate facility forming a fix (away from VHF/UHF, toward LF/MF NAVAID)
- X X — Mileage Breakdown or Computer Navigational Fix (CNF) (no ATC functions)

BOUNDARIES

- Air Route Traffic Control Center (ARTCC)
- NAME / Name / 000.0 000.0 — ARTCC Remoted Sites with discrete VHF and UHF frequencies
- Flight Information Region (FIR)
- CTA/FIR OAKLAND OCEANIC KZAK UNLTD FL 55 ACC — Type of Area Traffic Service; Ceiling; Floor
- Air Defense Identification Zone (ADIZ)
- 125 — Off Route Obstruction Clearance Altitudes (OROCA) Example: 12,500 feet
- International Boundary (Not shown when coincident with ARTCC or FIR)
- US/Russia Maritime Boundary
- Area of Enlargement (contains only data for through flights) See Area Charts for complete data
- Official Time Zone
- International Date Line

AIRSPACE INFORMATION

Open area (white) indicates controlled airspace (Class E) unless otherwise indicated

All airspace 14,500′ and above is controlled (Class E)

Shaded area (brown) indicates uncontrolled airspace below 14,500′ (Class G)

- In Canada - Indicates Class B Airspace above 12,500′
- Oceanic Control Area (CTA)
- Additional Control Area limit

Class B Airspace | Class C Airspace | Mode C Area See FAR 91.215

TRIM LINE

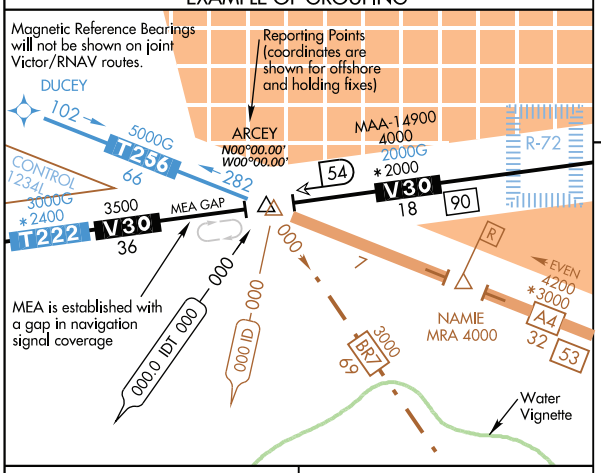
Continued on Legend Panel Information - U.S. (3)

APPENDIX 35
LEGEND PANEL INFORMATION - U.S. (CONTINUED)

Continued from Legend Panel Information - U.S. (2)

FOLD LINE

EXAMPLE OF GROUPING



SPECIAL USE AIRSPACE

P-56
R-123
W-789
CYA-101
CYD-102
CYR-103

A-456

WALL 1 MOA

WALL 2 MOA

P - Prohibited Area
R - Restricted Area
W - Warning Area
A - Alert Area
MOA - Military Operations Area

In Canada:
CYA - Advisory Area
CYD - Danger Area
CYR - Restricted Area

Line delimits internal separation of same Special Use Area

See Airspace Tabulation for complete information

MILITARY TRAINING ROUTES (MTRs)

MTRs 5 NM or less both sides of centerline

IR 000

VR 000

MTRs greater than 5 NM either or both sides of centerline

IR 000

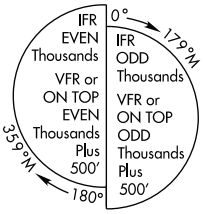
VR 000

Arrow indicates direction of route

See MTR tabs for altitude range information
All IR and VR MTRs are shown except those VRs at or below 1500' AGL
CAUTION: Inset charts do not depict MTRs

CRUISING ALTITUDES - U.S.

IFR within controlled airspace as assigned by ATC



VFR above 3000' AGL
unless otherwise authorized by ATC
IFR outside controlled airspace
All courses are magnetic

MISCELLANEOUS

ALTIMETER Altimeter setting change
4°E 2010 Isogonic Line and Value
All Mileages are Nautical except as noted.
All Radials and Bearings are magnetic except as noted.
All Altitudes are MSL except as noted.
All Time is Coordinated Universal Time (UTC), Days are local.
‡ During periods of Daylight Saving Time (DT), effective hours will be one hour earlier than shown. All states observe DT except Arizona and Hawaii.
North American Datum of 1983 (NAD 83), for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

FOR ADDITIONAL SYMBOL INFORMATION REFER TO THE CHART USER'S GUIDE

TRIM LINE

TRIM LINE

APPENDIX 36
LEGEND PANEL INFORMATION - ALASKA

TRIM LINE

FOLD LINE

TRIM LINE

CHART IDENTIFICATION AND TITLE AREA

L E G E N D

AIRPORTS

Facilities in BLUE or GREEN have an approved Instrument Approach Procedure and/or RADAR MINIMA published in either the FAA Terminal Procedures Publications or the DoD FLIPs. Those in BLUE have an Instrument Approach Procedure and/or RADAR MINIMA published at least in the High Altitude DoD FLIPs. Facilities in BROWN do not have a published Instrument Approach Procedure or RADAR MINIMA.

LAND
- Civil
- Civil - Military
- Military
- Heliport

SEA
- Civil

1. A solid line box enclosing the airport name indicates FAR 93 Special Requirements-see Directory/Supplement
2. "NO SVFR" above the airport name indicates FAR 91 fixed-wing special VFR flight is prohibited
3. C or D following the airport name indicates Class C or Class D Airspace
4. Pvt - Private use
5. Associated city names for public airports are shown above or preceding the airport name. If airport name and city name are the same, only the airport name is shown. City names for military and private airports are not shown. The airport identifier in parentheses follows the airport name.

CITY
Airport Name
(APT) (ICAO) D ★
280 ⓪★ 43s
(A) ★109.8

Airport Ident
ICAO Location Indicator shown outside contiguous U.S.

Airport Elevation

ATIS or AFIS (Alaska Only)

Part-time

Frequency

Part-time or established by NOTAM. See Airport/Facility Directory for times of operation. In Alaska see Supplement Alaska

Longest runway length to nearest 100 feet with 70 feet as the dividing point (add 00) s indicates soft surface

Lighting Capability:

L Lighting available
⓪ Pilot Controlled Lighting
★ Part-time or on request
- No lighting available
At private facilities - indicates no lighting information is available.

NAVAIDS

VHF/UHF Data is depicted in BLACK
LF/MF Data is depicted in BROWN

COMPASS ROSE and/or NORTH ARROW Oriented to Magnetic North of NAVAID which may not be adjusted to the charted isogonic values.

Smaller sizes are used in congested areas.

Compass Locator Beacon

Non Compulsory Reporting or Off Airway

Compulsory Reporting

VOR | VOR/DME | TACAN | VORTAC | LF/MF Non-directional Radiobeacon or Marine Radiobeacon | LF/MF Non-directional Radiobeacon /DME

Flight Service Station (FSS), Remote Communications Outlet (RCO) or Automated Weather Observing Station (ASOS/AWOS) not associated with a charted NAVAID or airport

ILS Localizer Course with additional navigation function

COMMUNICATION BOXES

NAME (T) T
000.0 IDT 000(Y)

VOR with TACAN compatible DME

Underline indicates No Voice transmitted on this frequency. TACAN Channels are without voice but not underlined.

Crosshatch indicates Shutdown status

(T) Frequency protection usable range at 12,000' AGL - 25NM

(Y) TACAN must be placed in "Y" mode to receive distance information

NAME
000 IDT (000.0)
N00°00.00' W000°00.00'

TACAN Channel paired with VHF Frequency in parenthesis.

Automated Weather Broadcast Systems:

A ASOS/AWOS H HIWAS T TWEB

Automated weather, when available, is broadcast on the associated NAVAID frequency.

NAME ASOS 000.0 — Stand Alone ASOS/AWOS

000.0
NAME
000.0 IDT 000
N00°00.00' W000°00.00'
NAME ← FSS name

Freq(s) positioned above thin line NAVAID box is remoted to the NAVAID site. Other freq(s) at the named FSS radio are available, however, altitude and terrain may determine their reception.

Thin line NAVAID boxes without freq(s) and FSS radio name indicates no freq(s) available.

000.0 000.0
NAME
000.0 IDD 000
N00°00.00' W000°00.00'

Shadow NAVAID box indicates NAVAID and Flight Service Station (FSS) have same name

000.0 000.0
NAME IDT — FSS name and identifier not associated with NAVAID

NAME 000.0 — Remote Communications Outlet (RCO). FSS radio name and remoted freq(s) are shown.

Part-Time or On-Request
NAME
★ 000 IDT 00(000.0)

LF/MF Non-directional Radiobeacon/DME VHF Freq paired with TACAN Channel

SHADOW BOXES indicate Flight Service Stations (FSS). Frequencies 122.2, 255.4 and emergency 121.5 and 243.0 (Canada-121.5, 126.7 and 243.0) are available at many FSSs and are not shown. All other frequencies are shown. Certain FSSs provide Airport Advisory Service, see A/FD. Frequencies transmit and receive except those followed by R or T:
R - Receive only
T- Transmit only

In Canada, a "D" after the frequency indicates a Dial-up Remote Communications Outlet.

Continued on Legend Panel Information - AK (2)

APPENDIX 36
LEGEND PANEL INFORMATION - ALASKA (CONTINUED)

Continued from Legend Panel Information - AK (1)

FOLD LINE

AIR TRAFFIC SERVICES AND AIRSPACE INFORMATION

ROUTE DATA

VHF/UHF Data is depicted in BLACK
LF/MF Data is depicted in BROWN
RNAV Data is depicted in BLUE

- V0 — VOR Airway
- A0 — LF/MF Airway
- A0 — Uncontrolled LF/MF Airway
- A0 A0 — Oceanic Route
- A0 A0 — ATS Route
- T000 — Low Altitude RNAV 2 Route TSO-C145 or C146 required
- Substitute Route — Via/bypassing temporarily shutdown NAVAIDS. See NOTAMs or appropriate publications for specific information.
- Unusable Route Segment
- V0 — Preferred Single Direction Route
- EVEN — Direction of Flight Indicator (Canada only)
- 000.0 IDT 000 / 000 ID — Facility Locators used in formation of Reporting Points
- 000 — Radial outbound from a VHF/UHF NAVAID
- 000 — Bearing inbound to an LF/MF NAVAID
- 000 — Magnetic Reference Bearing, outbound from a NAVAID or Fix
- 000 000 — Total Mileage between Compulsory Fixes and/or NAVAIDS
- 00 00 00 — Mileage between other Fixes, NAVAIDS and/or Mileage Breakdown
- 00 00 / 00 00 — Changeover Point giving mileage to NAVAIDs (Not shown at midpoint locations)
- *0000 *0000 *0000 — Minimum Obstruction Clearance Altitude (MOCA)
- 0000 0000 0000G — Minimum Enroute Altitude (MEA) GPS/WAAS MEA
- MAA-00000 — Maximum Authorized Altitude (MAA)
- MEA, MOCA and/or MAA Change at other than NAVAIDs
- R R R — Minimum Reception Altitude (MRA)
- X X X — Minimum Crossing Altitude (MCA) or Minimum Turning Altitude (MTA)
- Holding Pattern with max restricted airspeed (IAS) 210K applies to altitudes above 6000' to and including 14000' 175K applies to all altitudes

FIXES/ATC REPORTING REQUIREMENTS

- Fix Compulsory and Non-Compulsory Position Report
- RNAV Waypoint Compulsory and Non-Compulsory Position Report
- Denotes DME Fix (Distance same as route mileage)
- 00 — Denotes DME Fix and Mileage
- Offset arrows indicate facility forming a fix (away from VHF/UHF, toward LF/MF NAVAID)
- X X — Mileage Breakdown or Computer Navigational Fix (CNF) (no ATC functions)

BOUNDARIES

- Air Route Traffic Control Center (ARTCC)
- NAME Name 000.0 000.0 — ARTCC Remoted Sites with discrete VHF and UHF frequencies
- Flight Information Region (FIR)
- CTA/FIR OAKLAND OCEANIC KZAK UNLTD FL 55 ACC — Type of Area Traffic Service; Ceiling; Floor
- Air Defense Identification Zone (ADIZ)
- 12 5 — Off Route Obstruction Clearance Altitudes (OROCA) Example: 12,500 feet
- International Boundary (Not shown when coincident with ARTCC or FIR)
- US/Russia Maritime Boundary
- Area of Enlargement (contains only data for through flights) See Area Charts for complete data
- Official Time Zone
- International Date Line

AIRSPACE INFORMATION

Open area (white) indicates controlled airspace (Class E) unless otherwise indicated

All airspace 14,500' and above is controlled (Class E)

Shaded area (brown) indicates uncontrolled airspace below 14,500' (Class G)

- In Canada - Indicates Class B Airspace above 12,500'
- Oceanic Control Area (CTA)
- Additional Control Area limit

Class B Airspace | Class C Airspace | Mode C Area See FAR 91.215

TRIM LINE

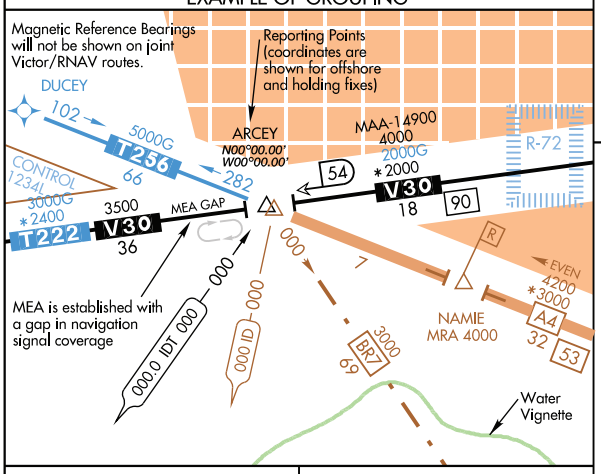
Continued on Legend Panel Information - AK (3)

APPENDIX 36
LEGEND PANEL INFORMATION - ALASKA (CONTINUED)

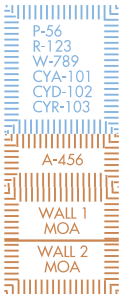
Continued from Legend Panel Information - AK (2)

FOLD LINE

EXAMPLE OF GROUPING



SPECIAL USE AIRSPACE



P - Prohibited Area
R - Restricted Area
W - Warning Area
A - Alert Area
MOA - Military Operations Area

In Canada:
CYA - Advisory Area
CYD - Danger Area
CYR - Restricted Area

Line delimits internal separation of same Special Use Area

See Airspace Tabulation for complete information

MILITARY TRAINING ROUTES (MTRs)

MTRs 5 NM or less both sides of centerline

IR 000

VR 000

MTRs greater than 5 NM either or both sides of centerline

IR 000

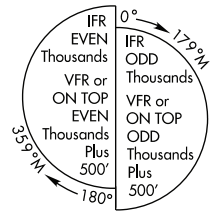
VR 000

Arrow indicates direction of route

See MTR tabs for altitude range information
All IR and VR MTRs are shown except those VRs at or below 1500' AGL
CAUTION: Inset charts do not depict MTRs

CRUISING ALTITUDES - U.S.

IFR within controlled airspace as assigned by ATC



VFR above 3000' AGL unless otherwise authorized by ATC
IFR outside controlled airspace
All courses are magnetic

MISCELLANEOUS

ALTIMETER Altimeter setting change
— 4°E — 2010 Isogonic Line and Value
All Mileages are Nautical except as noted.
All Radials and Bearings are magnetic except as noted.
All Altitudes are MSL except as noted.
All Time is Coordinated Universal Time (UTC), Days are local.
‡ During periods of Daylight Saving Time (DT), effective hours will be one hour earlier than shown. All states observe DT except Arizona and Hawaii.
North American Datum of 1983 (NAD 83), for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

FOR ADDITIONAL SYMBOL INFORMATION REFER TO THE CHART USER'S GUIDE

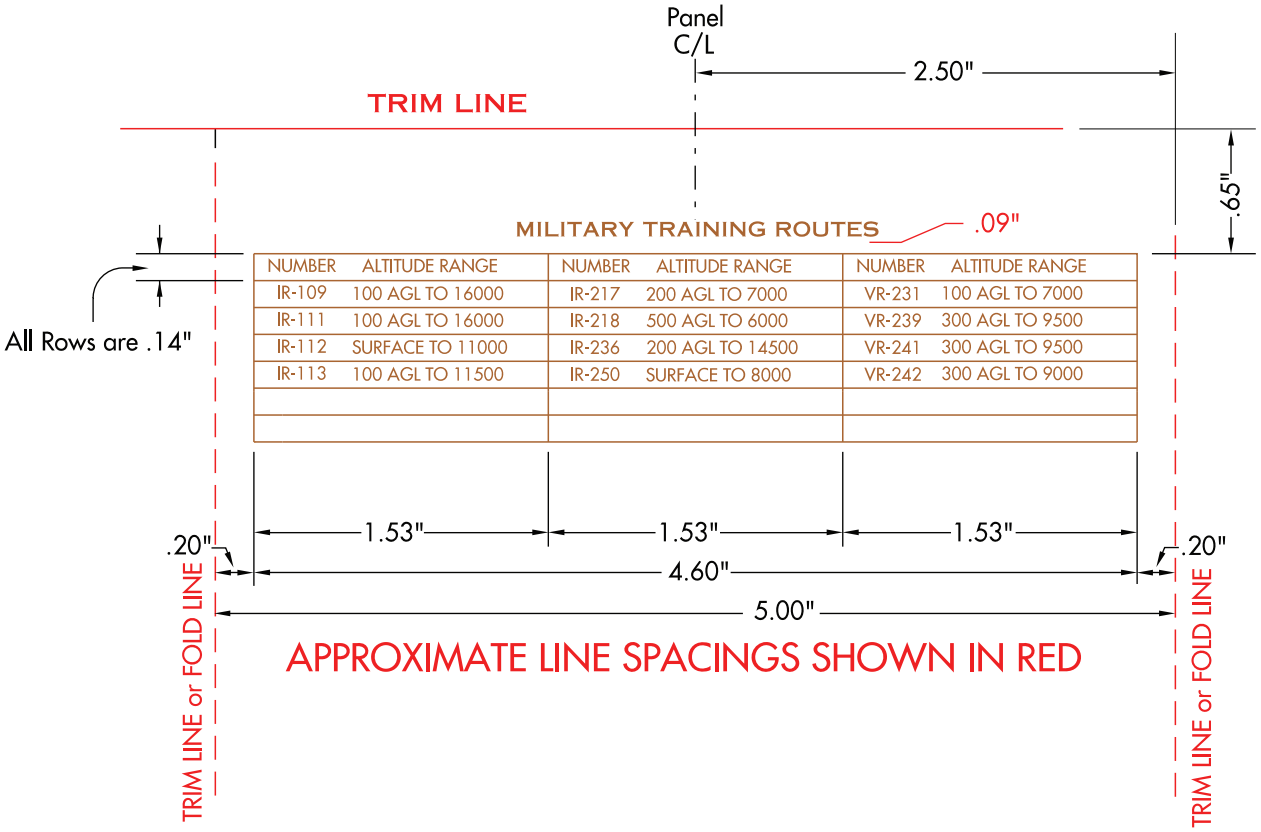
TRIM LINE

TRIM LINE

APPENDIX 37
LEGEND PANEL - CHART IDENTIFICATION LABELS U.S. & ALASKA

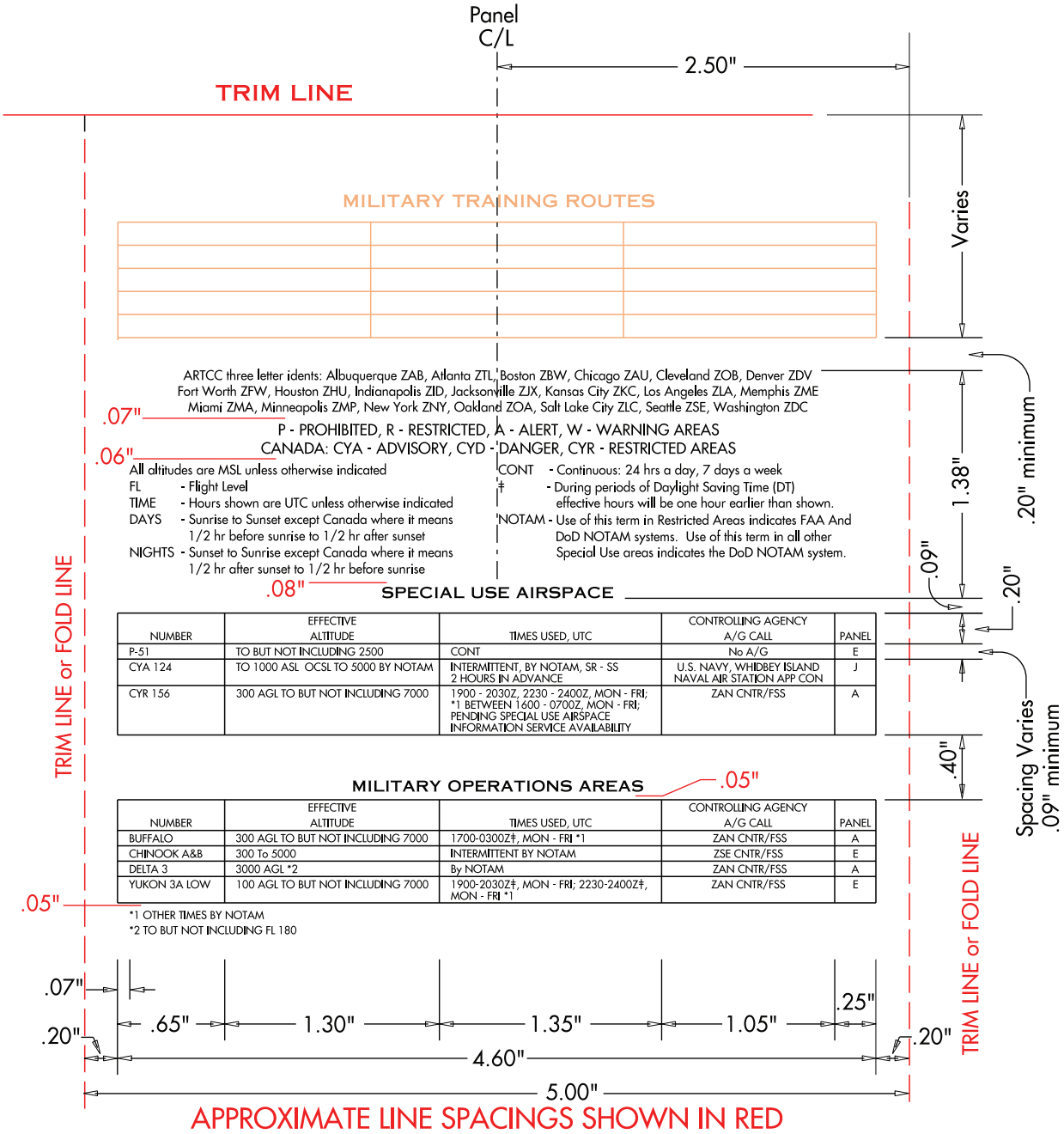
LEGEND PANEL - LOW ENROUTE CHARTS				
Chart Identification Area			45% Black	Black
Chart Idents Text	CAPS	.23" Copperplate Gothic 31	L-2	L-1
Arrowheads				
Panel Identifications Text	CAPS	.07" Copperplate Gothic 31	PANELS FGHIJ	PANELS ABCDE
Chart Scales Text	CAPS	.07" Copperplate Gothic 31	1"=8 NM	1"=8 NM
Chart Identification Color Chart Idents, Text, Arrowheads, Panel idents and Chart Scales	45% Black	U.S. Charts: L-1, L-4, L-6, L-7, L-10, L-12, L-14, L-16, L-18, L-20, L-22, L-24, L-25, L-28, L-29, L-32, L-34, and L-36 AK Charts: L-1 and L-3		
	Black	U.S. Charts: L-2, L-3, L-5, L-8, L-9, L-11, L-13, L-15, L-17, L-19, L-21, L-23, L-26, L-27, L-30, L-31, L-33, and L-35 AK Charts: L-2 and L-4		
Chart Title First and Second Lines	CAPS	.11" Futura Medium/Black	UNITED STATES...	
Third Line	CAPS	.17" Futura Medium/Black	IFR ENROUTE...	
Altitude Note			For use up to but not...	
Horizontal Datum Note			HORIZONTAL DATUM: NORTH...	

APPENDIX 38
MILITARY TRAINING ROUTES TABULATION - U.S. & ALASKA



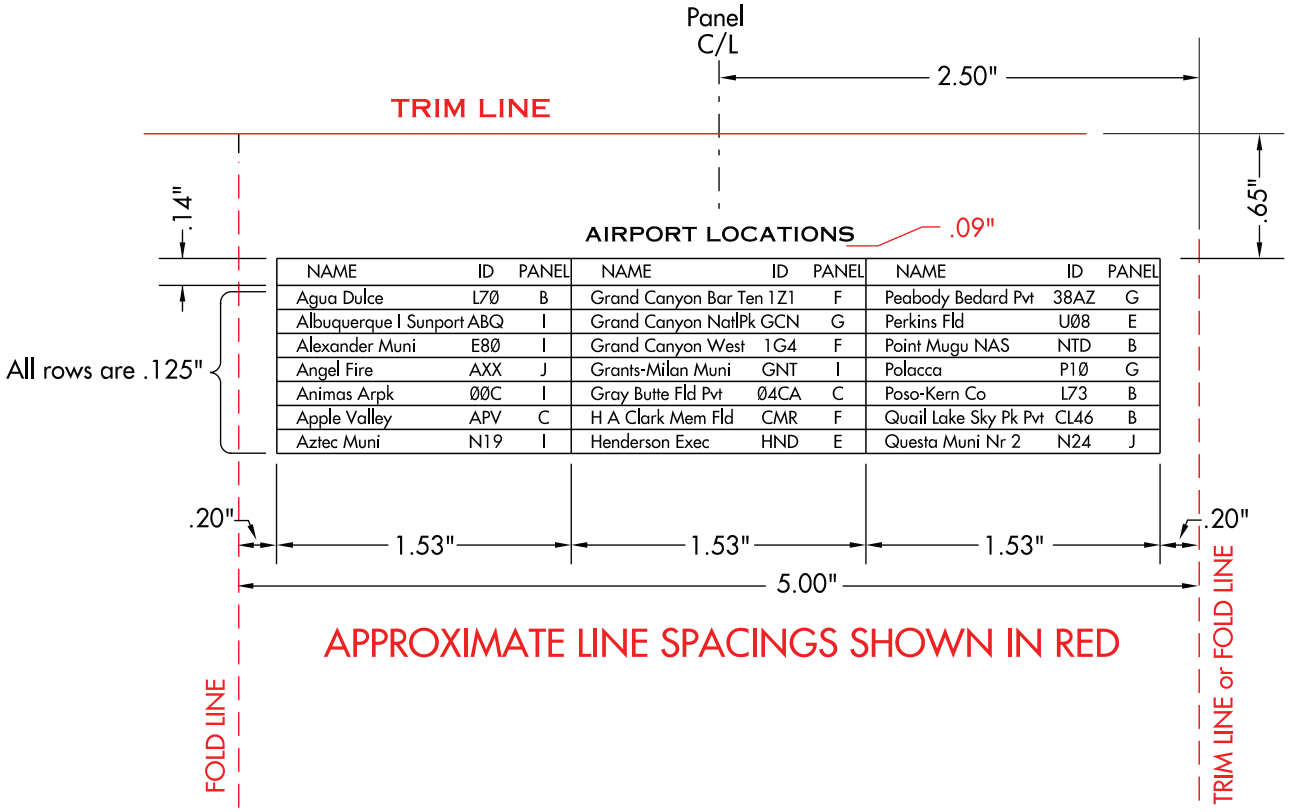
MILITARY TRAINING ROUTES - ENROUTE CHARTS			
Table Title	CAPS	.08" Copperplate Gothic 31/Brown	MILITARY TRAINING ROUTES
Column Headings	CAPS	.07" Futura Medium/Brown	NUMBER ALTITUDE RANGE
Tabulated Information Number & Altitude Range	CAPS	.07" Futura Medium/Brown	VR-231 100 AGL TO 7000
Table Lineweight		.008" Brown	

APPENDIX 39
SUA & MOA TABULATION - U.S. & ALASKA



SUAs & MOAs TABULATION			
Table Title	CAPS	6.5pt Copperplate Gothic 31/Black	SPECIAL USE AIRSPACE
Legend	C/L	4.5pt Futura Medium/Black	P - PROHIBITED, R - RESTRICTED,
Tabulated Information			
Column Headings	CAPS	4.5pt Futura Medium/Black	NUMBER
Tabulated Information	CAPS	4.5pt Futura Medium/Black	BAKERSFIELD
Footnotes	C/L	4.5pt Futura Medium/Black	*1 Other Times By NOTAM
Table Lineweight		.008"/Black	

APPENDIX 40
AIRPORT LOCATIONS TABULATION - U.S. & ALASKA

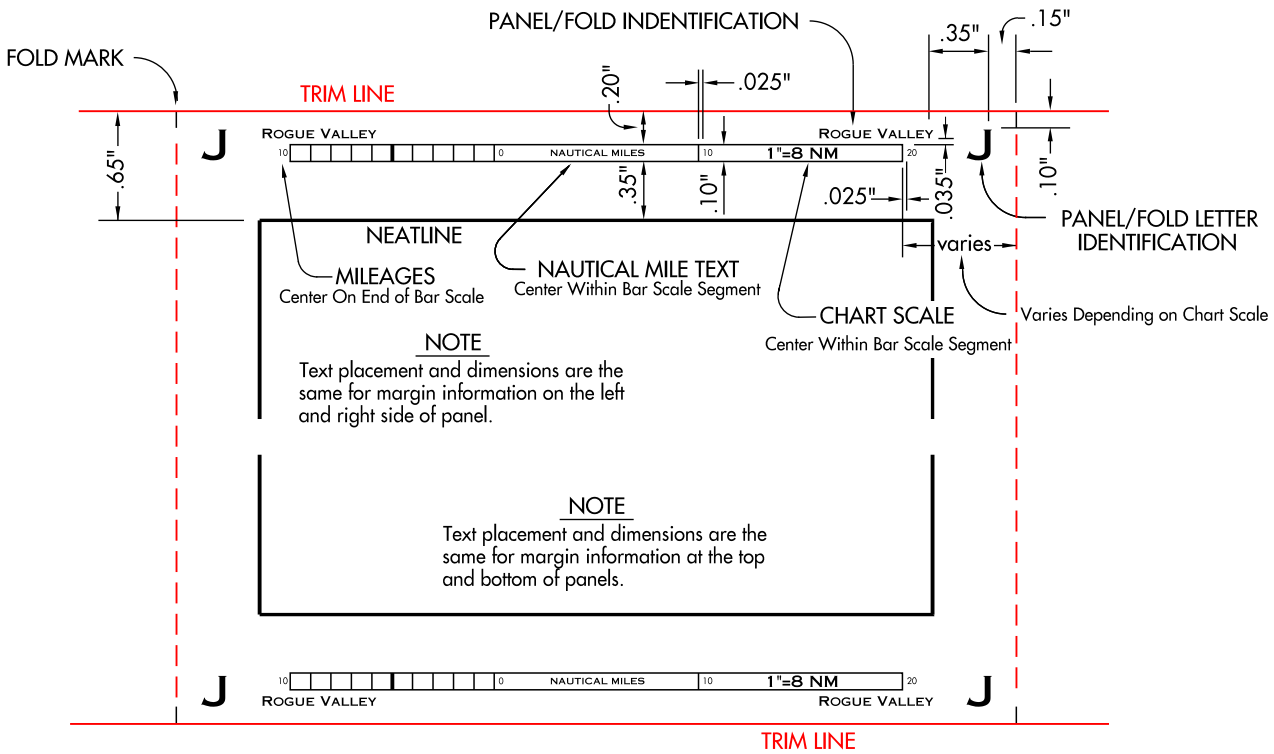


NAME	ID	PANEL	NAME	ID	PANEL	NAME	ID	PANEL
Agua Dulce	L7Ø	B	Grand Canyon Bar Ten	1Z1	F	Peabody Bedard Pvt	38AZ	G
Albuquerque I Sunport	ABQ	I	Grand Canyon NatlPk	GCN	G	Perkins Fld	UØ8	E
Alexander Muni	EØ8	I	Grand Canyon West	1G4	F	Point Mugu NAS	NTD	B
Angel Fire	AXX	J	Grants-Milan Muni	GNT	I	Polacca	PIØ	G
Animas Arpk	ØØC	I	Gray Butte Fld Pvt	Ø4CA	C	Poso-Kern Co	L73	B
Apple Valley	APV	C	H A Clark Mem Fld	CMR	F	Quail Lake Sky Pk Pvt	CL46	B
Aztec Muni	N19	I	Henderson Exec	HND	E	Questa Muni Nr 2	N24	J

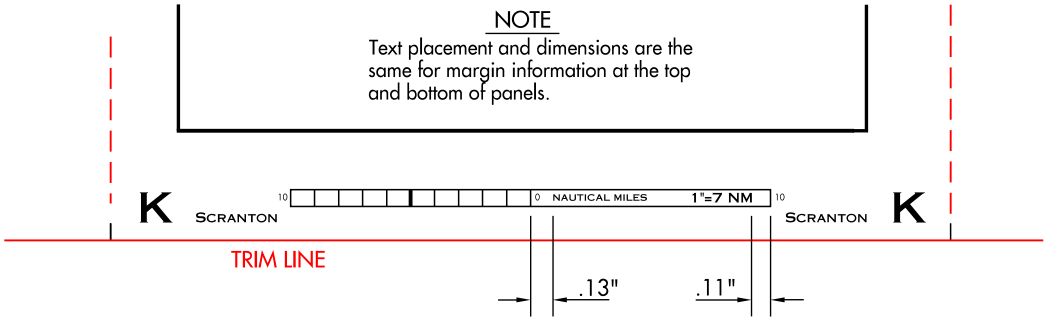
AIRPORT LOCATIONS TABULATION			
Table Title	CAPS	.09" Copperplate Gothic 31/Black	AIRPORT LOCATIONS
Tabulated Information			
Column Headings	CAPS	.07" Futura Medium/Black	NAME
Tabulated Information	C/L	.07" Futura Medium/Black	Agua Dulce L7Ø B
Table Lineweight		.008"/Black	

APPENDIX 41
MARGIN INFORMATION - U.S. & ALASKA

Bar Scales - One Panel - U.S. & Alaska

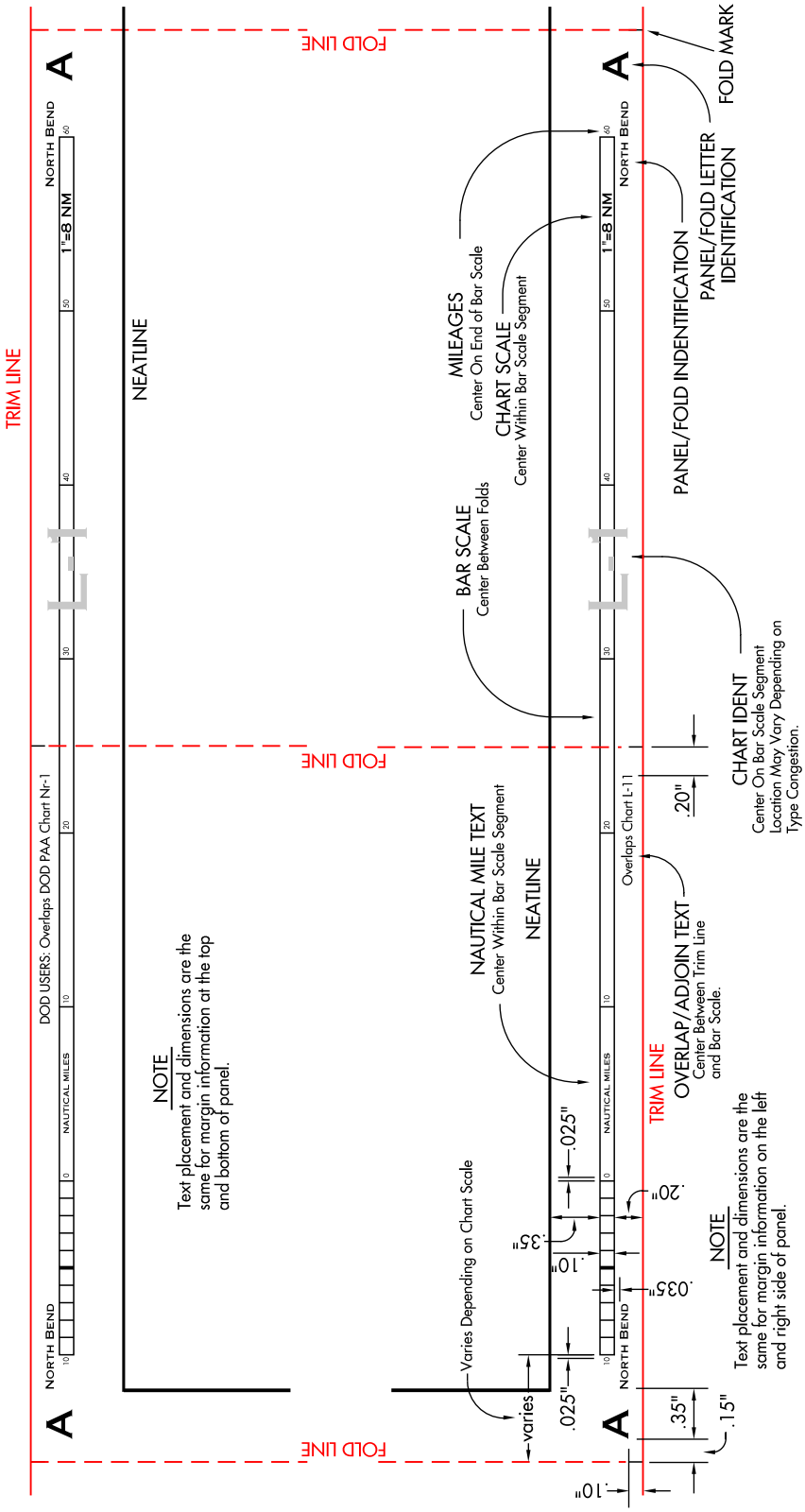


Differences for Chart Scale 1:7



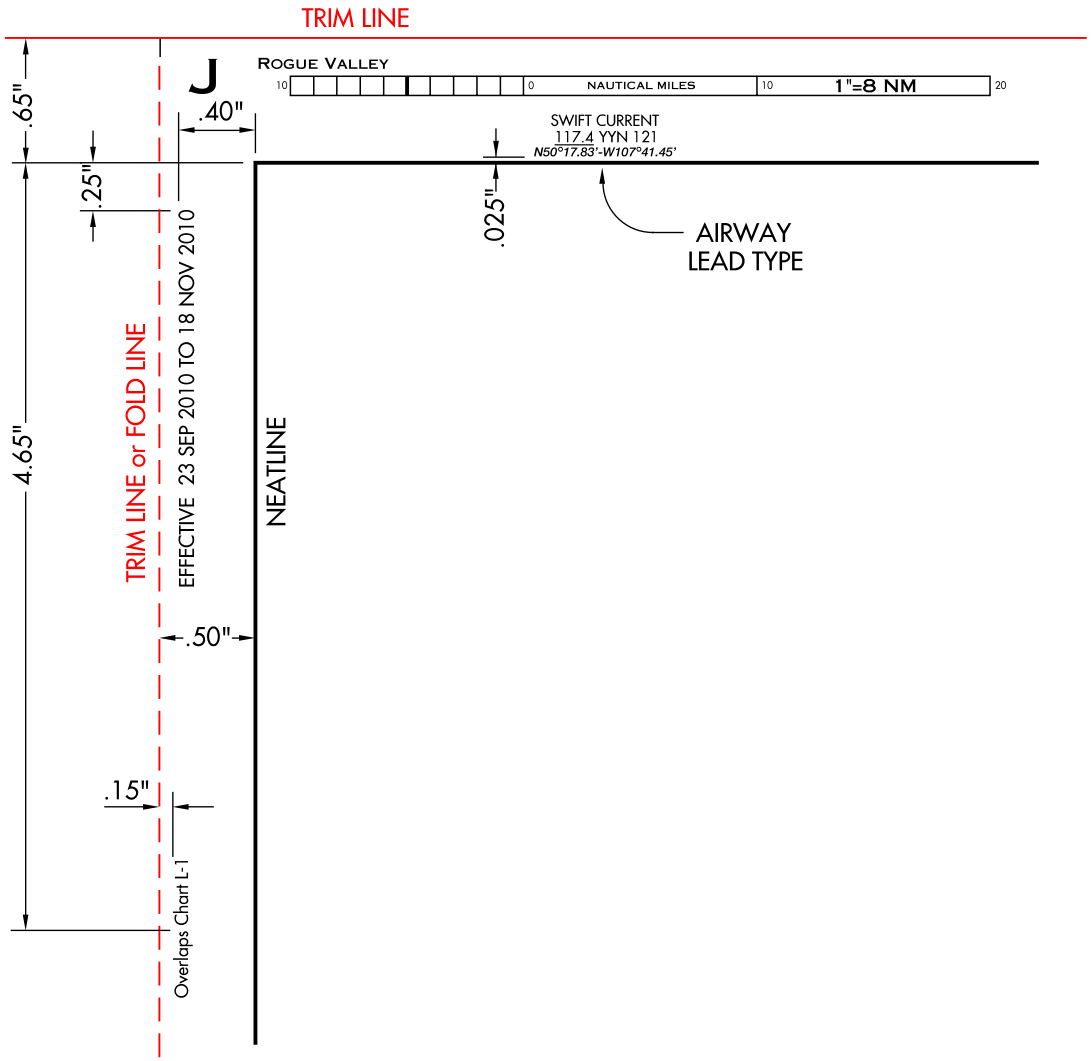
APPENDIX 41
MARGIN INFORMATION - U.S. & ALASKA (CONTINUED)

Bar Scales - Two Panel - U.S. & Alaska



APPENDIX 41
MARGIN INFORMATION - U.S. & ALASKA (CONTINUED)

Spacing - All Charts

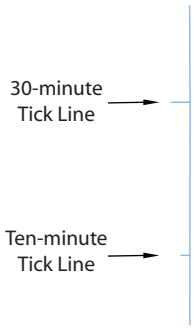
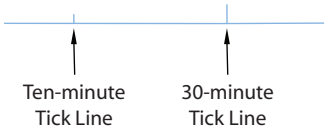
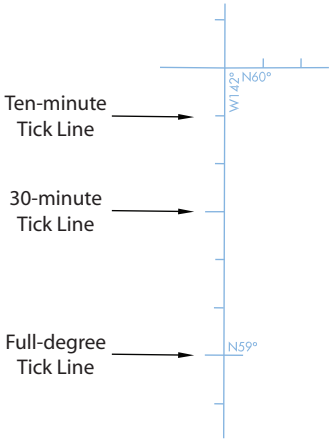
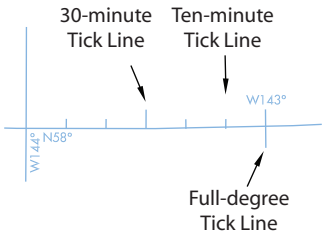


APPENDIX 41
MARGIN INFORMATION - U.S. & ALASKA (CONTINUED)

MARGIN INFORMATION - U.S. & ALASKA			
Panel Fold			
Letter	CAPS	.19" Copperplate Gothic 31/Black	H
City or NAVAID Identification	CAPS	.06" Copperplate Gothic 31/Black	PHOENIX
Fold Mark Weight & Length		.008"/0.1"/Black	|
Chart Identification	CAPS	.29" Copperplate Gothic 31/Color?	L-2
Chart Scale			
Units Text	CAPS	.04" Copperplate Gothic 31/Black	NAUTICAL MILES
Mileage Numbers		.04" Futura Medium/Black	20
Scale Text	CAPS	.06" Copperplate Gothic 31/Black	1"=8 NM
Scale Bar Lineweight		.008"/Black	
Effective Date (Even Side of Charts)	CAPS	.07" Futura Medium/Black	EFFECTIVE 18 NOV 2010 TO...
Adjoin Chart Text	C/L	.07" Futura Medium/Black	Overlaps Chart L-3

MARGIN INFORMATION - U.S. & ALASKA - AIRWAY/ROUTE INFORMATION			
Airway Route Text & Color			
VHF/UHF	CAPS	.06" Futura Medium/Black	MACON 112 9 MCM 76
LF/MF	CAPS	.06" Futura Medium/Brown	OSCARVILLE 251 OSE
LF/MF with DME			
LF/MF Data	CAPS	.06" Futura Medium/Brown	371 PDN 32 (109.5)
DME Data	CAPS	.06" Futura Medium/Black	
RNAV Waypoint	CAPS	.06" Futura Medium/Blue	DIBWO
Geographic Coordinates		VHF/UHF / LF/MF / RNAV	
Color		Black / Brown / Blue	N60°37.13'-W135°08.33' / N60°26.37'-W134°51.68' / N60°37.13'-W135°08.33'
Text		.05" Helvetica 66 Medium Italic	
Shutdown Status		VHF/UHF / LF/MF	
Color		45% Black / 45% Brown	
Lineweight		.006"	

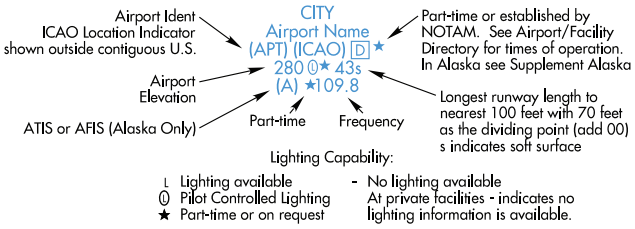
APPENDIX 42
CHART DETAIL - PROJECTION LINES - U.S. & ALASKA

PROJECTION LINES - ALL CHARTS			
Projection Lines Lineweight Text	 CAPS	 .007"/45% Blue .05" Futura Medium/45% Blue	
PROJECTION LINES - U.S. CHARTS			
Latitude Tick Line Length Ten-minute Thirty-minute		 .05"/45% Blue .1"/45% Blue	
Longitude Tick Line Length Ten-minute Thirty-minute		 .05"/45% Blue .1"/45% Blue	
PROJECTION LINES - ALASKA CHARTS			
Latitude Tick Line Length Ten-minute Thirty-minute Full-degree		 .05"/45% Blue .1"/45% Blue .2"/45% Blue	
Longitude Tick Line Length Ten-minute Thirty-minute Full-degree		 .05"/45% Blue .1"/45% Blue .2"/45% Blue	

APPENDIX 43
BASE DETAIL - U.S. & ALASKA

BASE DETAIL - U.S. & ALASKA			
Shoreline		Green Vignette/Approx .15" wide	
International Boundary Lineweight Long Dash Length Short Dash Length Space between Dashes Text	 CAPS	 .020"/45% Blue .2"/45% Blue .1"/45% Blue .05" Gap .06" Futura Medium/45% Blue	CANADA UNITED STATES
U.S./Russia Maritime Boundary Lineweight Horizontal Dash Length Vertical Dash Length Space between Dashes Text	 CAPS	 .020"/45% Blue .2"/45% Blue .1"/45% Blue .05" Gap .06" Futura Medium/45% Blue	RUSSIA UNITED STATES
Time Zones - U.S. Text Dotted Border	 C/L	 .05" Futura Medium/45% Green .0075" Diameter/45% Green	Pacific Std +8=UTC Mountain Std +7=UTC
International Date Line Text Dotted Border	 CAPS	 .05" Futura Medium/45% Green .03" Diameter/45% Green	INTERNATIONAL DATE LINE MONDAY SUNDAY
Lines of Equal Magnetic Variation (Isogonic Lines) Text Lineweight	 CAPS	 .06" Techno Medium Italic/45% Green .005"/45% Green	20°E
OROCA Values Thousands of feet value Hundreds of feet value		 .36" Futura Medium/25% Brown .16" Futura Medium/25% Brown	12 5

APPENDIX 44
AIRPORTS - U.S. & ALASKA



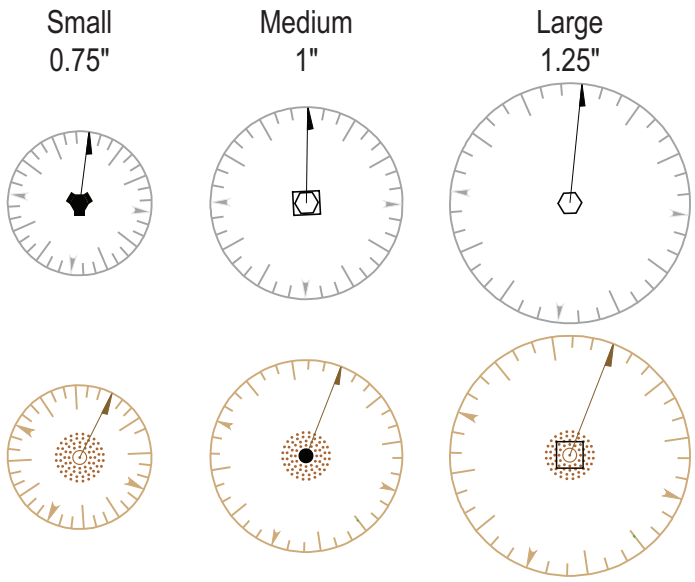
AIRPORT DATA			
		ALL AIRPORT DATA	
First Line			
Associated City Name(s)	CAPS	.06" Futura Medium	CITY
Airport Name	C/L	(.05" for Congested Areas)	Airport Name
Second Line		Color: Same as Airport Name	
FAA Airport Identifier	CAPS		(APT)
ICAO Identifier	CAPS		(ICAO)
Airspace	CAPS	Airspace Box: Lineweight .010"	D C
Third Line			
Airport Elevation			280
Runway Lighting			⓪★
Runway Length			43
Runway Surface	Lowercase		s
Fouth Line			
ATIS	CAPS		(A) ★109.8
(AK Only) AFIS			
Airports under SFAR			
Airport Name Box		SFAR Box lineweight: .007" Color: Same as Airport Name	
Airports with no SVFR			
Text	CAPS	.005" Futura Medium Color: Same as Airport Name	NO SVFR
AIRPORT COLOR			
Airports with...			
Approved IAP		Green	Los Alamitos AAF (SLI)
Approved IAP & in High Altitude DoD FLIPs		Blue	NASA Shuttle Landing Facility Pvt (TTS)
Airports without Approved IAP		Brown	Big Mountain Pvt (37AK)(PABM)
HELIPORT DATA			
		ALL HELIPORT DATA	
First Line			
Heliport Name	C/L	.06" Futura Medium (.05" for Congested Areas)	Southampton
Second Line			
FAA Identifier	CAPS	Color: Same as Heliport Name	(87N)
ICAO Airport Identifier	CAPS		(ICAO)
SEAPLANE BASE DATA			
		ALL SEAPLANE BASE DATA	
First Line			
Seaplane Base Name	C/L	.06" Futura Medium (.05" for Congested Areas)	Greenville SPB
Second Line			
FAA Identifier	CAPS		(52B)
ICAO Airport Identifier	CAPS	Color: Same as Seaplane Base Name	(ICAO)

APPENDIX 45
NAVAID NORTH ARROWS & COMPASS ROSES

NAVAIDs - NORTH ARROWS & COMPASS ROSE

		VHF/UHF	LF/MF	VHF/UHF	LF/MF
NAVAID North Arrows Lineweight Color		.010" Black	Brown		
NAVAID Compass Rose Lineweight Color		.010" 25% Black	Brown		

Size



APPENDIX 46
NAVAID IDENTIFICATION BOXES

NAVAID IDENTIFICATION BOXES					
		VHF/UHF	LF/MF	VHF/UHF	LF/MF
NAVAID Identification Box Lineweight & Color		.007"/Black	.007"/Brown		
NAVAID Data Color - All Charts Font - All Charts Font Size Geographic Coordinates Color Font & Size	 CAPS CAPS	 Black Futura Medium .07" Black .05" Helvetica 66 Medium Italic	 Brown	MYSTIC 108.2 MYS N62°57.06' W155°36.69'	GALBRAITH LAKE 417 GBH N64°22.59' W173°14.44
Pointer (LF/MF Only)		.007"/Brown			
Leaderline (VHF/UHF Only)		.007"/Black			
SSV (VHF/UHF Only) Font & Color Font Size	 CAPS	 Futura Medium/Black .07"		(T)	
No Voice Color Lineweight		 Black .007"	 Brown	VHF/UHF —	LF/MF —
Part Time Color		 Black	 Brown	★	★
Y Mode Font & Color - All Charts Font Size	 CAPS	 Futura Medium/Black .07"		18(Y)	
Abnormal Status Color Lineweight		 45% Black .007"	 45% Brown	VHF/UHF	LF/MF
Private NAVAIDs Color - All Charts Font - All Charts Font Size	 CAPS	 Black Futura Medium .07"	 Brown	PRIVATE	PRIVATE
ILS Components Localizer Course Front Bearing Text Back Course Text	 CAPS CAPS	 .07" Futura Medium/Black .05" Futura Medium/Black		225 BACK COURSE	

APPENDIX 47
FLIGHT SERVICE STATIONS & REMOTE COMMUNICATIONS OUTLETS

FSSs & RCOs					
Associated with NAVAID		VHF/UHF	LF/MF	VHF/UHF	LF/MF
FSS Frequency(s) Shadow Box		.06" Futura Medium/Black Black Brown		122.6 122.45	123.6
RCO Frequency(s) Name Name "L" Brackets Lineweight	CAPS	.06" Futura Medium/Black .07" Futura Medium/Black .012" /Black		255.4 122.2 SEATTLE	126.7 122.5 PACIFIC
Not Associated with NAVAID FSS Frequency(s) Name Shadow Box	CAPS	.06" Futura Medium/Black .07" Futura Medium/Black Black		122.2 VICTORIA HARBOUR FSS AVAILABLE 1345-0530Z‡	
RCO Frequency(s) Name Box Lineweight	CAPS	.06" Futura Medium/Black .06" Futura Medium/Black .007" /Black		PACIFIC 125.85	
Operational Hours and Notes	CAPS	.05" Futura Medium/Black		FSS VOICE AVAILABLE 1615-0745Z‡ OTHER TIMES CONTACT FAIRBANKS FSS	
FSS & RCO Location Indicator Circle Diameter & Color Lineweight Dot		.072" Diameter/Black .008" /Black .015" Diameter/Black		⊙	
International FSS Frequency(s) & Name Box Lineweight	CAPS	.05" Futura Medium/Black .015" /Black		MIAMI IFSS MIA 127.9 126.9 126.7	

APPENDIX 48
AUTOMATED WEATHER BROADCASTING SYSTEMS

AUTOMATED WEATHER BROADCASTING SYSTEM (AWBS)					
		VHF/UHF	LF/MF	VHF/UHF	LF/MF
Associated with NAVAID Symbol Color Symbol ASOS/AWOS HIWAS TWEB		Black	Brown	 A H T	 A H T
Not Associated with NAVAID Name, AWBS & Frequency Box Lineweight	CAPS	.06" Futura Medium/Black .007" /Black		SEXTON SUMMIT ASOS 118.375	
AWBS Location Indicator Circle Diameter & Color Lineweight Dot		.072" Diameter/Black .008" /Black .015" Diameter/Black		⊙	

APPENDIX 49
AIRSPACE INFORMATION

GENERAL ATS AREA INFORMATION			
ATS Area Data			
Service Type, Name & ICAO Identifier	CAPS	.06" Futura Medium/45% Blue	CTA HOUSTON OCEANIC KZHU
Vertical & Horizontal Limits			
Text		.06" Futura Medium/45% Blue	UNLTD 2500 AMSL
Separator Line		.007"/45% Blue	
Call Sign & Frequencies		.06" Futura Medium/45% Blue	NEW YORK RADIO 129.4 2887
Box Lineweight		.015"/45% Blue	
Pointer		.007"/45% Blue	
Explanatory Notes		.06" Futura Medium/45% Blue	
AIRSPACE NOTES			
U.S. Airspace Note	CAPS	.05" Futura Medium/45% Blue	FAA AIR TRAFFIC SERVICE OUTSIDE U.S. AIRSPACE IS PROVIDED IN ACCORDANCE WITH...
FOREIGN AIRSPACE NOTES			
Canadian Airspace			
Current Source Note	CAPS	.06" Futura Medium/Black	NOTE: REFER TO CURRENT CANADIAN CHARTS AND FLIGHT...
Airspace Classification Note	CAPS	.05" Futura Medium/Black	AIRSPACE CLASSIFICATION (SEE CANADA FLIGHT SUPPLEMENT) AND OPERATIONAL...
VFR Airspace Restriction Note	CAPS	.05" Futura Medium/Black	VFR AIRSPACE RESTRICTION NO VFR FLIGHT WITHIN CANADIAN CLASS B AIRSPACE PERMITTED ABOVE 12,500' WITHOUT...
Fix Note (Associated with Canadian Cruising Alt Diagram)	CAPS	.05" Futura Medium/Black	IN CANADA CROSS EACH FIX AT OR ABOVE THE HIGHER...
Box Lineweight		.015" /Black	
Mexican Airspace Notes			
Low Altitude Note	CAPS	.06" Futura Medium/Black	MEXICAN LOW ALTITUDE AIRSPACE IS EFFECTIVE
Altimeter Note	CAPS C/L	.05" Futura Medium/Black .05" Futura Medium/Black	ALTIMETER Use Altimeter setting within Mazatlan CTA...
Box Lineweight		.015"/Black	
Report To FAA Note	CAPS	.05" Futura Medium/Black	REPORT TO FAA RADIO PRIOR TO ENTERING ADIZ
Foreign Airspace Note (All Excluding Canada)			
DoD User Note			
Title Text	CAPS	.07" Futura Medium/Black	DOD USERS
Body Text	CAPS	.06" Futura Medium/Black	REFER TO CURRENT DOD (NGA) CHARTS AND FLIGHT INFORMATION...
Box Lineweight		.015"/Black	
FOREIGN AIRSPACE NOTES			
Havana FIR Airspace Note	CAPS	.05" Futura Medium/Black	CAUTION: ACCURACY OF AIR TRAFFIC SERVICES RELATIVE TO HAVANA FIR
OTHER AIRSPACE NOTES			
Miscellaneous Airspace Notes	CAPS	.05" Futura Medium/Black	REPORT TO FAA RADIO PRIOR TO ENTERING ADIZ

APPENDIX 50
AIRSPACE

AIRSPACE TYPES			
Class B Airspace			
Lateral Limits		5% Blue	
Outer Limit/Boundary		.005"/Blue	
Airspace Box Lineweight		.015"/Black	
Airspace Name	CAPS	.05" Futura Medium/Black	CLASS B AIRSPACE
Class C Airspace			
Lateral Limits		5% Blue	
Outer Limit/Boundary		.005"/Blue	
Dashed Line Composition		.20" dash, .05" space, .10" dash, .05" space	
Class G Airspace, Uncontrolled Airspace, Unclassified Airspace		10% Brown	
Mode C			
Text	CAPS	.06" Futura Medium/Blue	30 NM
Border Lineweight		.005"/Blue	
Canadian Class B Airspace		10% Brown	

APPENDIX 50
AIRSPACE (CONTINUED)

AIRSPACE - BOUNDARIES					
Control Areas (CTA), Upper Control Areas (UTA), Oceanic Control Areas					
Boundary Limit		.010"/10% Brown			
First Line					
ID Text	CAPS	.06" Futura Medium/45% Blue		CONTROL 1316L	
Second Line					
Altitudes & Associated Notes	CAPS	.05" Futura Medium/45% Blue (Caps)		5500 FT AND ABOVE	
Special Use Airspace (SUA) & Military Operation Areas (MOA) Boundaries		SUA	MOA	SUA	MOA
Boundary Limit					
Lineweight		.010"	.010"		
Band Width (Line Length)		.075"	.075"		
Color		45% Blue	45% Brown		
Identification					
Font & Size	CAPS	.07" Futura Medium	.07" Futura Medium	R-2904A	EVERS MOA
Color		45% Blue	45% Brown		
Exclusion Area Notes	CAPS	.05" Futura Medium (Caps)		ABEL NORTH, SOUTH, AND BRAVO MOAS EXCLUDE	THE AIRSPACE WITHIN R-2507 N-S-E AND R-2512
Overlap/Adjoin Line		.015"/45% Blue	.015"/45% Brown		
Pointer w/Arrowhead		.007"/45% Blue	.007"/45% Brown		
Small Areas - Boundaries		.070" Diameter/ 45% Blue			
Exclusion Area Text	CAPS	.05" Futura Medium	.05" Futura Medium	W-122 EXCLUDES THE AIRSPACE ABOVE FL 240	
Pointer w/Arrowhead		.007"/Black	.007"/Black		
Special Air Traffic Rules (SFAR 50-2 and SFRAs)					
Airspace Note Box		.015"/Black			
Airspace Note	CAPS	.05" Futura Medium/Black		SPECIAL FLIGHT RULES AREA	
Boundary Limit					
Line		.015"/45% Blue			
Squares - Dimension		.05"/45% Blue			
Squares - Spacing		.50"			
SFRA Name	CAPS	.06" Futura Medium/45% Blue		WASHINGTON D.C. METROPOLITAN SFRA	

APPENDIX 50
AIRSPACE (CONTINUED)

AIRSPACE - BOUNDARIES			
ADIZ , CADIZ & Defense Areas			
Text	CAPS	.06" Futura Medium/45% Blue	ALASKA ADIZ
Boundary Limit Lineweight		.010"/45% Blue	
FIRS			
Text	CAPS	.06" Futura Medium/45% Blue	MIAMI OCEANIC CTA/FIR KZMA
Boundary Limit			
Lineweight		.015"/45% Blue	
Tick Height		.10"/45% Blue	
Tick Lineweight		.015"/45% Blue	
Spacing between Tick Lines		.060"/45% Blue	
ARTCCs & ACCs			
Text	CAPS	.06" Futura Medium/45% Blue	MIAMI
Boundary Limit Lineweight		.005"/45% Blue	
ARTCC RCAG			
ARTCC Name	CAPS	.06" Futura Medium/45% Blue	MIAMI
Remoted Site	C/L	.06" Futura Medium/45% Blue	Miami
Frequency(s)		.06" Futura Medium/45% Blue	132.4 281.5
Boundary Limit Lineweight		.005"/45% Blue	
Continental Control Boundary (U.S.)			
Boundary Limit Lineweight		.010"/Brown	
Altimeter Setting			
Text & Altimeter Setting	CAPS	.06" Futura Medium/Black	QNH ALTIMETER

APPENDIX 51
AIRWAY/ROUTE TYPES

AIRWAY/ROUTE TYPES					
Victor Airways		VHF/UHF	LF/MF	VHF/UHF	LF/MF
Lineweight & Color		.02"/Black	.02"/Brown		
LF/MF Airways (Colored Airways) Lineweight & Color		.06"/25% Brown			
Oceanic, Atlantic, Gulf, Puerto Rico & Bahama Routes		VHF/UHF	LF/MF	VHF/UHF	LF/MF
Lineweight & Color		.02"/Black	.02"/Brown		
Air Traffic Services (ATS) Routes		VHF/UHF	LF/MF	VHF/UHF	LF/MF
Lineweight & Color		.060"/25% Black	.060"/25% Brown		
RNAV T & TK Routes Lineweight & Color		.02"/Blue			
RNAV Q Routes (Gulf of Mexico) Lineweight & Color		.02"/Black			
Unusable Airway/Route Segments Lineweight & Color		.020"/45% Black			
Substitute Airways/Routes Symbol & Color "Unusable"		Brown .05" Futura Medium/Black		UNUSABLE	
Military Training Routes Route Lineweight & Color Route width < 5 NM Route width > 5 NM Route Designator Direction Arrow Color		.020"/15% Brown .035"/15% Brown .07" Futura Medium/45% Brown 45% Brown		IR-18	VR-708
Uncontrolled Airways (Class G Airways)		VHF/UHF	LF/MF	VHF/UHF	LF/MF
Route Lineweight & Color Repeating Dashed Line Pattern		.020"/Black dash .15", space .09", dash .03" and space .09"	.020"/Brown		

APPENDIX 52
AIRWAY/ROUTE DATA

AIRWAY/ROUTE DATA					
Identification					
Victor Airways Identifier Text	CAPS	.10" Reverse Negative/ Futura Medium/Black (May be reduced to .09" in congested areas)		V0	
Colored Airways Identifier Text	CAPS	.07" Futura Medium/Brown		A0	
Box Lineweight		.01"/ Brown			
RNAV T and TK Routes Identifier Text	CAPS	.10" Reverse Negative/ Futura Medium/Blue (May be reduced to .09" in congested areas)		T000	
Oceanic, Atlantic, Gulf, Puerto Rico & Bahama Routes		VHF/UHF	LF/MF	VHF/UHF	LF/MF
Identifier Text	CAPS	.07" Futura Medium		A0	A0
Color		Black	Brown		
Box Lineweight		.01"/Black	.01"/Brown		
Air Traffic Service (ATS) Routes Identifier Text	CAPS	.07" Futura Medium		A0	A0
Color		Black	Brown		
RNAV Q Routes (Gulf of Mexico) Identifier Text	CAPS	.07" Futura Medium/Black		Q102	
Box Lineweight		.01"/Black			
Uncontrolled Airways (Class G Airways)		VHF/UHF	LF/MF	VHF/UHF	LF/MF
Identifier Text	CAPS	.07" Futura Medium		BR44	AR8
Color		Black	Brown		
Box Lineweight		.01"/ Black	.01"/ Brown	BR44	AR8
Single Direction Arrows Arrowhead & Color		As appropriate for airway/route type		▶	▶ ◀
Box Lineweight (ATS, Oceanic & RNAV Q Routes)		.01"/Black			
Hours of Operation Text	CAPS	.05" Futura Medium		1100-0300Z	1100-0300Z 1100-0300Z
Color		As appropriate for airway/route type			
Radials & Bearings VHF/UHF Text		.07" Futura Medium/Black (May be reduced to .06" in congested areas)		090°	
Arrow		Black		►	
LF/MF Text		.07" Futura Medium/Brown (May be reduced to .06" in congested areas)		270	
Arrow		Brown		►	
Unusable Airway/Route Radials or Bearings		VHF/UHF	LF/MF	VHF/UHF	LF/MF
Lineweight & Color		.006"/45% Black	.006"/45% Black		
Radial/Bearing Information		.05" Futura Medium/Black		R-233 UNUSABLE	
Magnetic Bearings		T & TK Routes	Q Routes	T & TK Routes	Q Routes
Text		.07" Futura Medium (May be reduced to .06" in congested areas)		270	311
Color		Blue	Black		
Arrow Color		Blue	Black	←	←

APPENDIX 52
AIRWAY/ROUTE DATA (CONTINUED)

AIRWAY/ROUTE DATA							
MEAs, MOCAs & MEAs					MEA	MOCA	MAA
Text	CAPS	.06" Futura Medium (May be reduced to .05" in congested areas)			9000	*2000	MAA-15000
Color		As appropriate for airway/route type			6000	*2200	MAA-15000
					6200G	*2000	MAA-15000
Direction Of Flight Indicator (Canada)		VHF/UHF	LF/MF		VHF/UHF	LF/MF	
Text	CAPS	.06" Futura Medium (May be reduced to .05" in congested areas)			◄ EVEN	EVEN ►	
Color		Black	Brown				
		VHF/UHF	LF/MF	RNAV	VHF/UHF	LF/MF	RNAV
T Symbol Lineweight & Color		.015"/Black	.015"/Brown	.015"/Blue			
MEA Gap Note	CAPS	.05" Futura Medium/Black			MEA GAP		
MCAs & MTAs					VHF/UHF	LF/MF	RNAV
Symbol & Color		As appropriate for airway/route type					
Text	CAPS	.06" Futura Medium (May be reduced to .05" in congested areas)			MTA V481S to V32 W 10000		MCA V481 10500S
Color		As appropriate for airway/route type			MTA B25 S to B32 E 10000		MCA B25 6600N
					MTA V32 W to T226 N 11000		MCA T226 10600S
MILEAGE DISTANCES							
Text		.07" Futura Medium (May be reduced to .06" in congested areas)			25	125	125
Color		As appropriate for airway/route type					
		VHF/UHF	LF/MF		VHF/UHF	LF/MF	RNAV
Box Lineweight & Color		.01"/Black	.01"/Brown				
TO Note							
Text	CAPS	.05" Futura Medium			TO MWH	TO MWH	TO MWH
Color		As appropriate for airway/route type					
Changeover Points (COP)		VHF/UHF	LF/MF		VHF/UHF	LF/MF	
Symbol & Color		Black	Brown				
Text		.06" Futura Medium (May be reduced to .05" in congested areas)			21	96	
Color		Black	Brown				

APPENDIX 53
NAVIGATIONAL & PROCEDURAL INFORMATION

OPERATIONAL NOTES							
		VHF/UHF	LF/MF	RNAV	VHF/UHF	LF/MF	RNAV
Color		Black	Brown	Blue			
Text	CAPS	.05" Futura Medium			COMPULSORY FL 240 AND ABOVE	COMPULSORY A647 ONLY	COMPULSORY FL 240 AND ABOVE

FLYOVER SYMBOLOGY							
		VHF/UHF	LF/MF	RNAV	VHF/UHF	LF/MF	RNAV
Symbol & Color		Black	Brown	Blue			

RADIO INTERSECTIONS & DME FIXES					
		VHF/UHF	LF/MF	VHF/UHF	LF/MF
Symbol & Color		Black	Brown		
Fix Name					
Color		Black	Brown		
Text	CAPS	.06" Futura Medium (May be reduced to .05" in congested areas)		AMZIE	CRABB
Fix Geographic Coordinates					
Color		Black	Brown		
Text	CAPS	.05" Helvetica 66 Medium Italic		N43°06.37' W67°17.17'	N42°12.80' W65°45.20'
Radio Fix Arrows					
Non-DME		Black	Brown		
DME		Black			

DME BOATS			
Symbol & Color		Black	
Text		.07" Futura Medium/Black	15

RADIAL & BEARINGS USED FOR FIX MAKEUP					
		VHF/UHF	LF/MF	VHF/UHF	LF/MF
Arrow Lineweight & Color		.007"/Black	.007"/Brown		
Text Color		Black	Brown		
Text Color		.07" Futura Medium (May be reduced to .06" in congested areas)		090°	090°

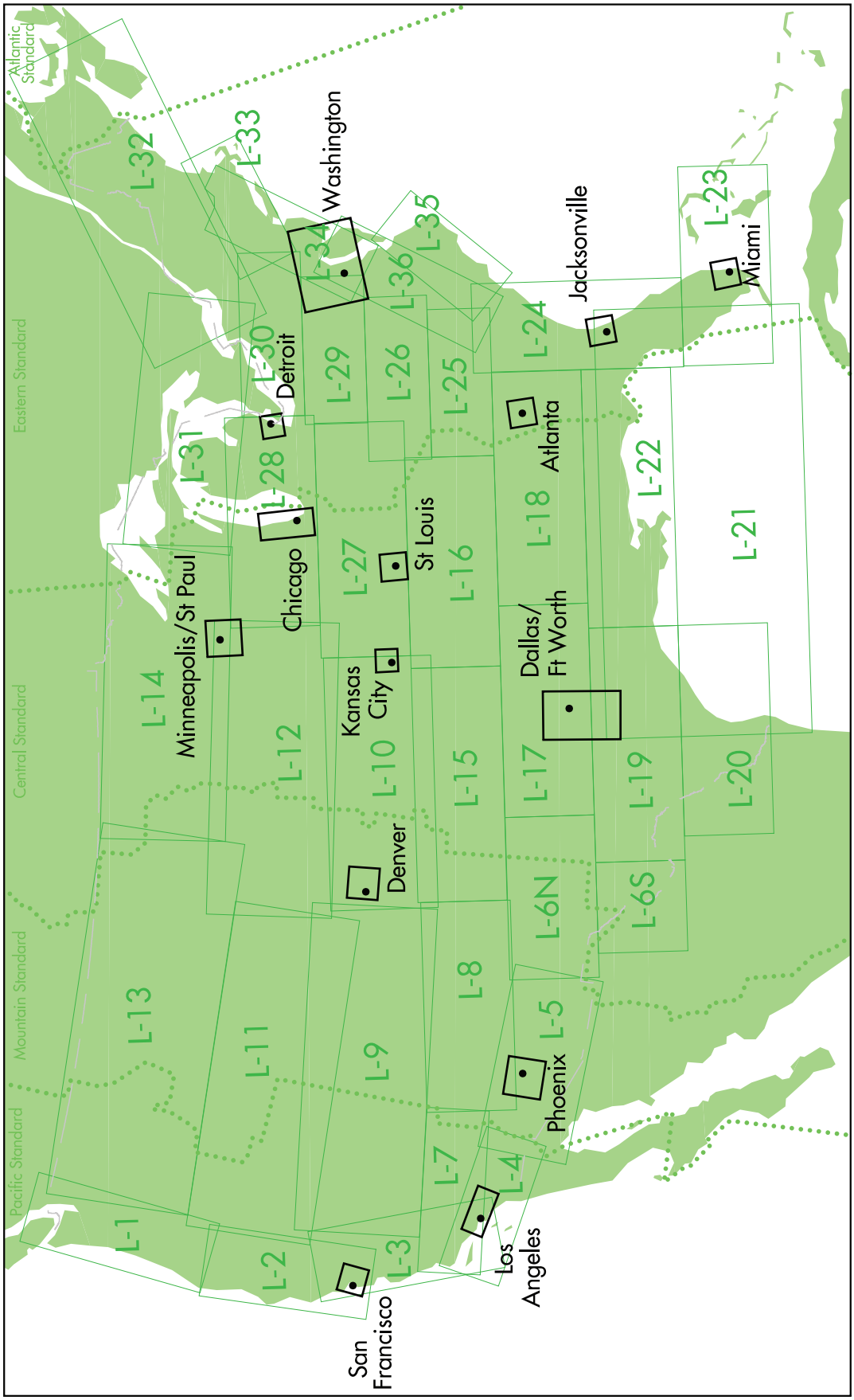
FACILITY LOCATOR BOATS					
		VHF/UHF	LF/MF	VHF/UHF	LF/MF
Symbol & Color		Black	Brown		
NAVAID Data					
Color		Black	Brown		
Text	CAPS	.06" Futura Medium (May be reduced to .05" in congested areas)		112.1 MLF 58	257 SQT

RNAV WAYPOINTS			
Symbol & Color		Blue	
Waypoint			
Text & Color	CAPS	.06" Futura Medium/Blue (May be reduced to .05" in congested areas)	PHYLS
Geographic Coordinates			
Text & Color	CAPS	.05" Helvetica 66 Medium Italic/Blue	N39°33.03' W72°41.53'

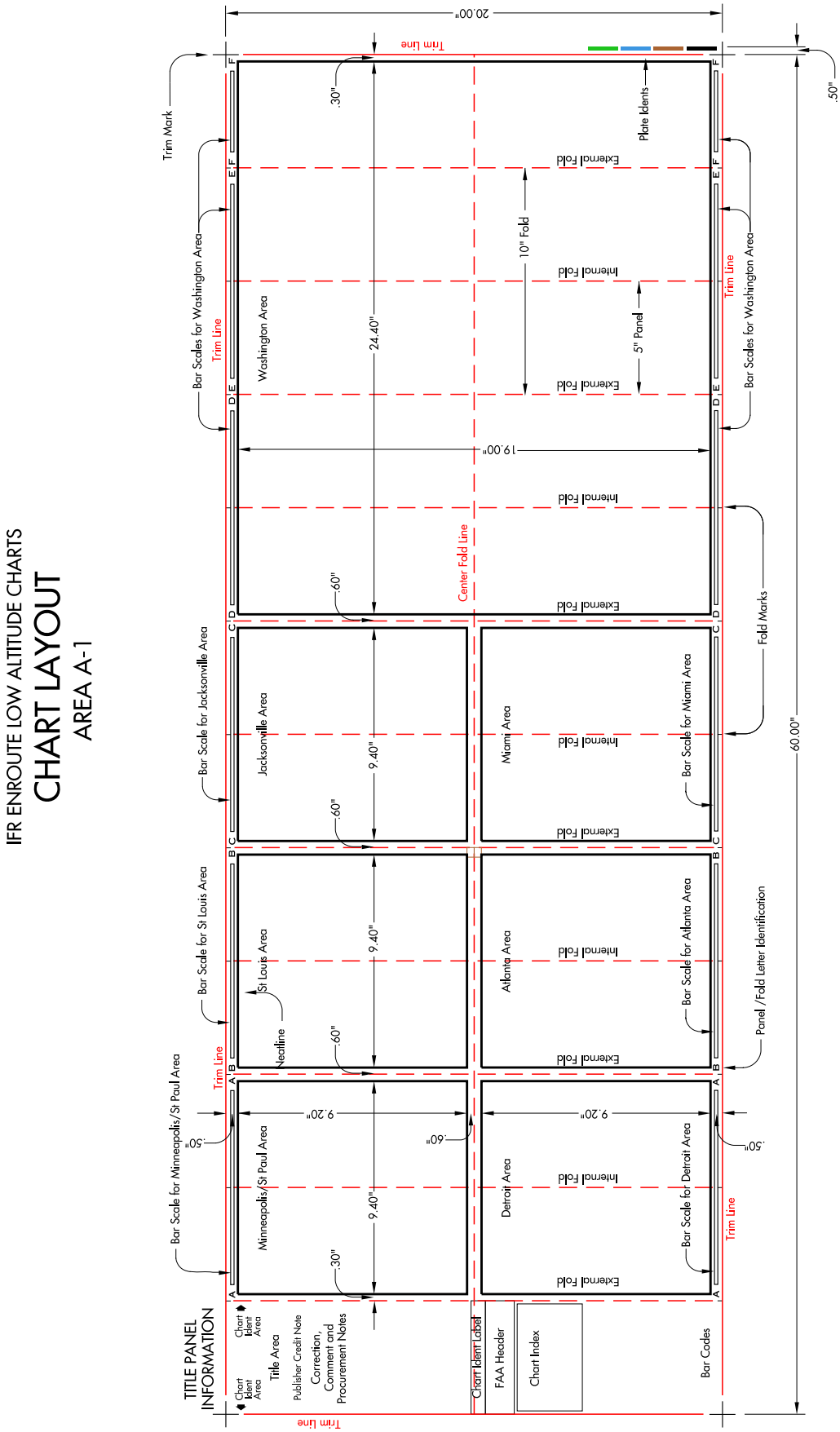
APPENDIX 53
NAVIGATIONAL & PROCEDURAL INFORMATION (CONTINUED)

MRAs							
		VHF/UHF	LF/MF	RNAV	VHF/UHF	LF/MF	RNAV
Symbol & Color		Black	Brown	Blue			
MRA Information							
Color		Black	Brown	Blue			
Text	CAPS	.06" Futura Medium (May be reduced to .05" in congested areas)			MRA 1800	MRA 1800	MRA 1800
NAVAID HOLDING PATTERNS							
Holding Pattern							
Symbol & Color		45% Black					
Text & Color	CAPS	.05" Futura Medium/45% Black			210K		
		VHF/UHF	LF/MF		VHF/UHF	LF/MF	
Radial/Bearing							
Arrow Lineweight & Color		.007"/Black	.007"/Brown				
Text Color		Black	Brown		210	337	
Text		.07" Futura Medium (May be reduced to .06" in congested areas)					
Geographic Coordinates							
Color		Black	Brown				
Text	CAPS	.05" Helvetica 66 Medium Italic			N47°04.47' W121°30.97'	N39°17.12' W69°18.07'	
RNAV HOLDING PATTERNS							
Holding Pattern							
Symbol & Color		Blue					
Magnetic Reference Bearing							
Lineweight & Color		.007"/Blue					
Text & Color	CAPS	.07" Futura Medium/Blue (May be reduced to .06" in congested areas)			290		
Geographic Coordinates							
Color		Blue					
Text	CAPS	.05" Helvetica 66 Medium Italic			N27°50.00' W75°25.41'		
COMPUTER NAVIGATION FIXES (CNF)							
		VHF/UHF	LF/MF		VHF/UHF	LF/MF	
Symbol & Color		Black	Brown		x	x	
Text & Color	CAPS	.07" Futura Medium (May be reduced to .06" in congested areas)			(JBBDT)	(JBBDT)	
AREA/OVERLAPPING CHART BOUNDARY							
Text	CAPS	.09" Futura Medium/Green			AREA CHART A-2 FOR DETAIL		
Dash Line							
Weight & Color		.04"/35% Green					
Length		.13"					
Spacing		.06"					
REGISTRATION GUIDE MARKS (Alaska Only)							
Silhouette Outline		.006"/Green					
Silhouette		10% Green					
Total Length of Silhouette		1"					

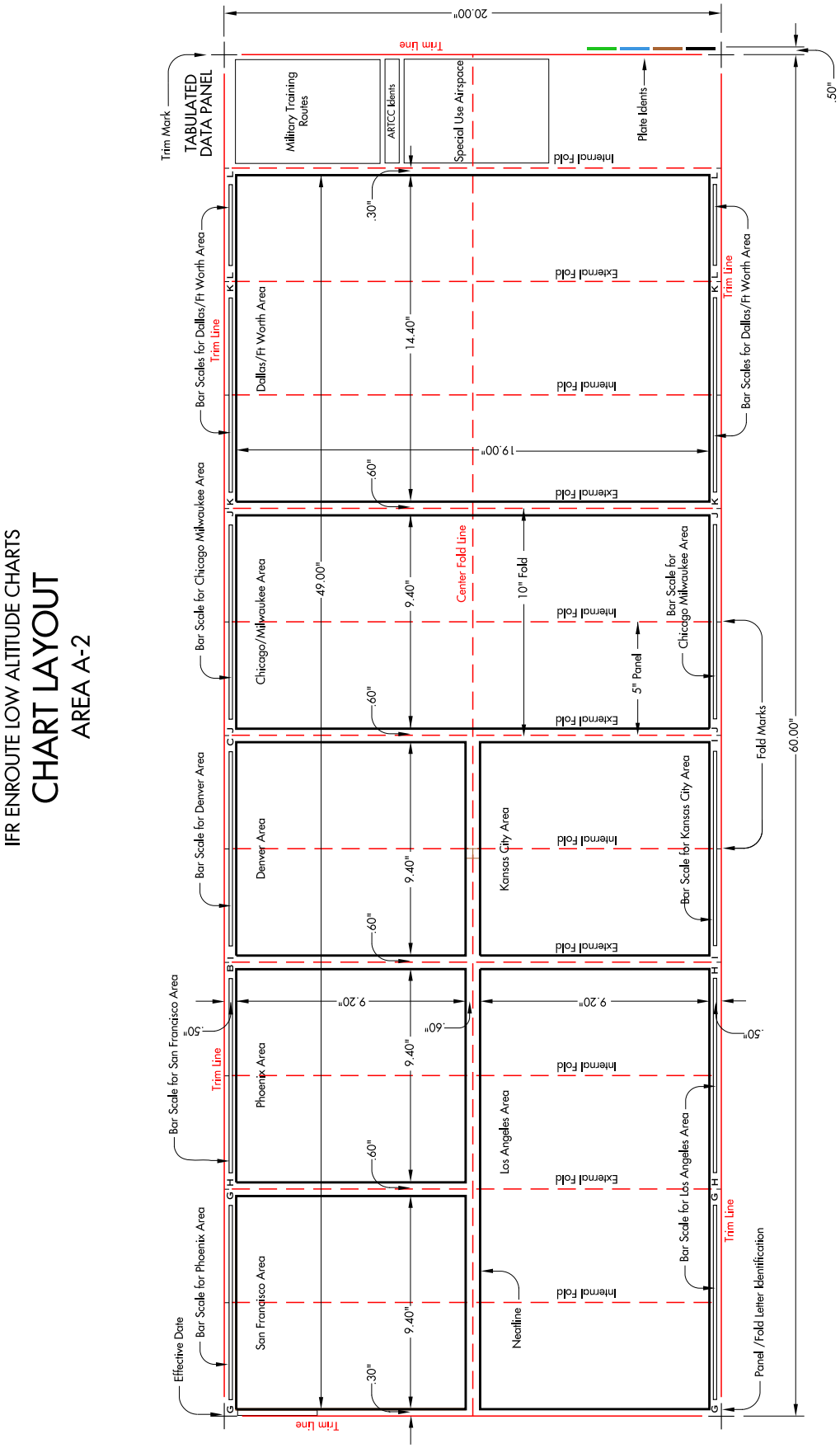
APPENDIX 54
CHART AREA OF COVERAGE - AREA CHARTS



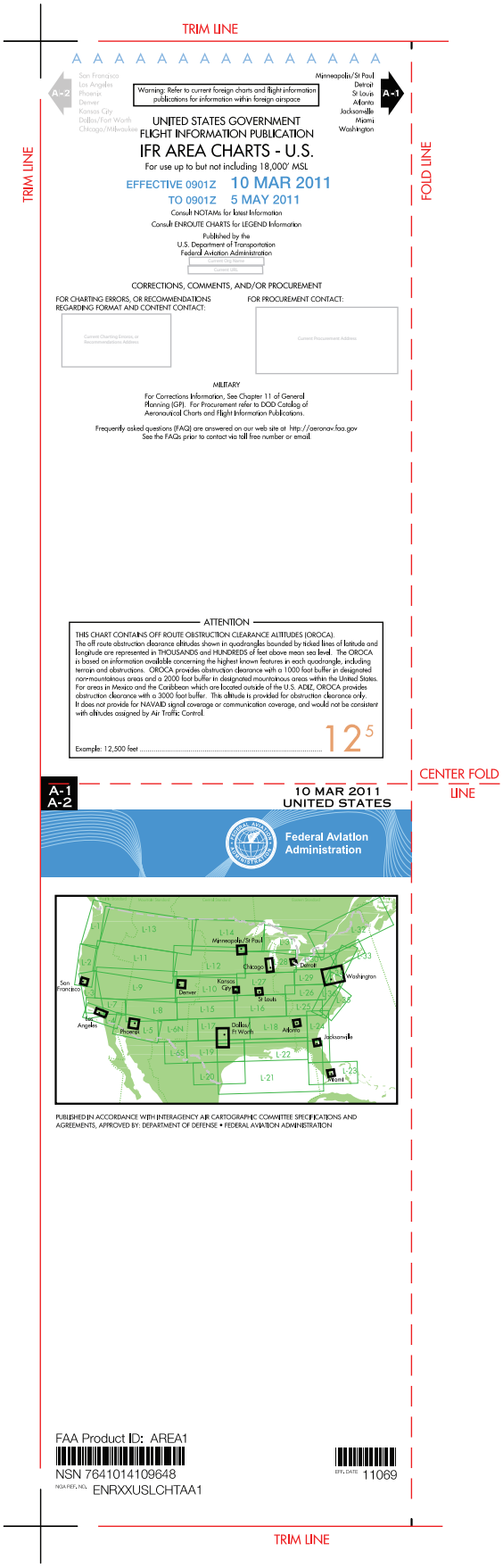
APPENDIX 55
CHART LAYOUT - AREA CHART A-1



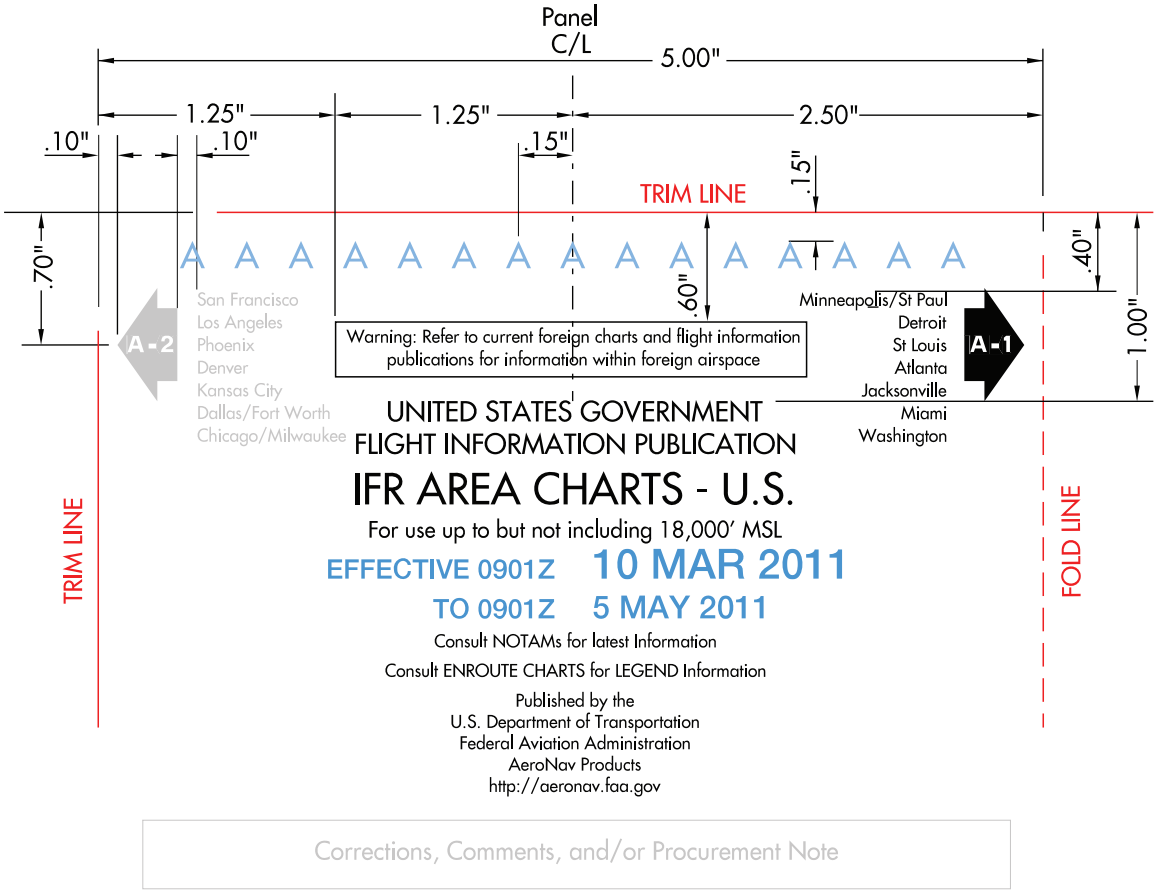
APPENDIX 56
CHART LAYOUT - AREA CHART A-2

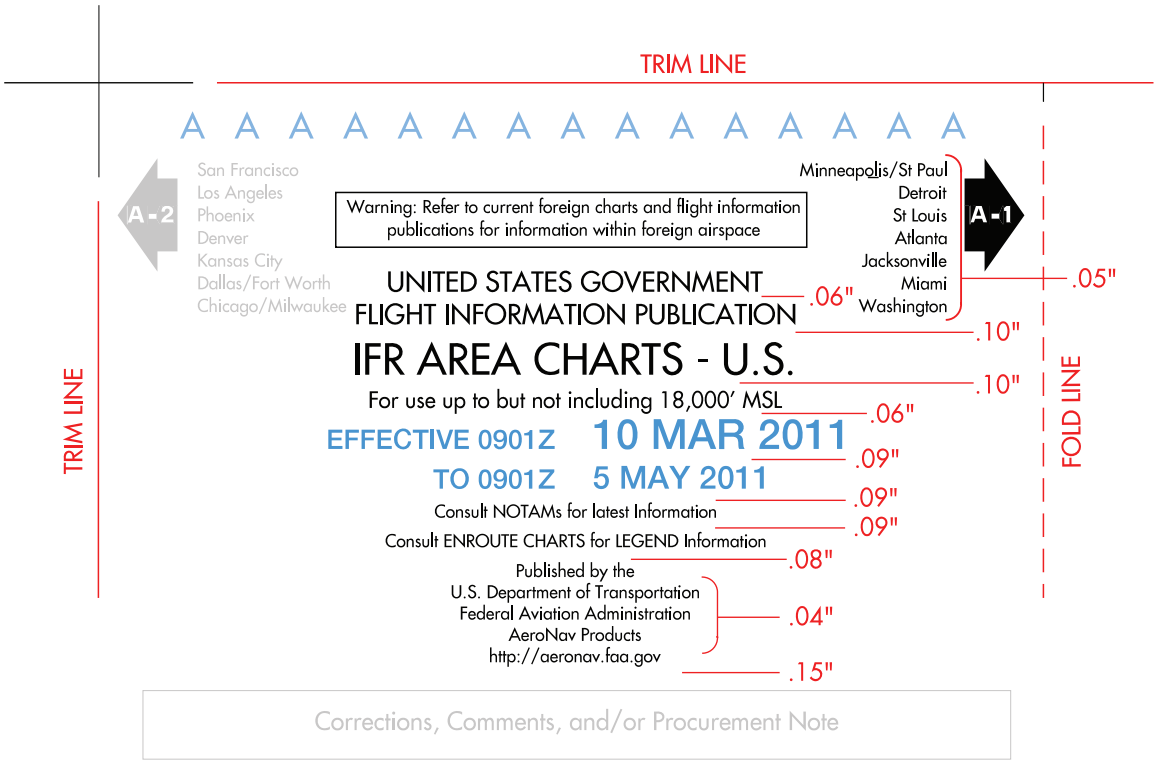


APPENDIX 57
TITLE PANEL INFORMATION - AREA CHARTS



APPENDIX 58
CHART IDENTIFICATION & TITLE AREA - AREA CHARTS



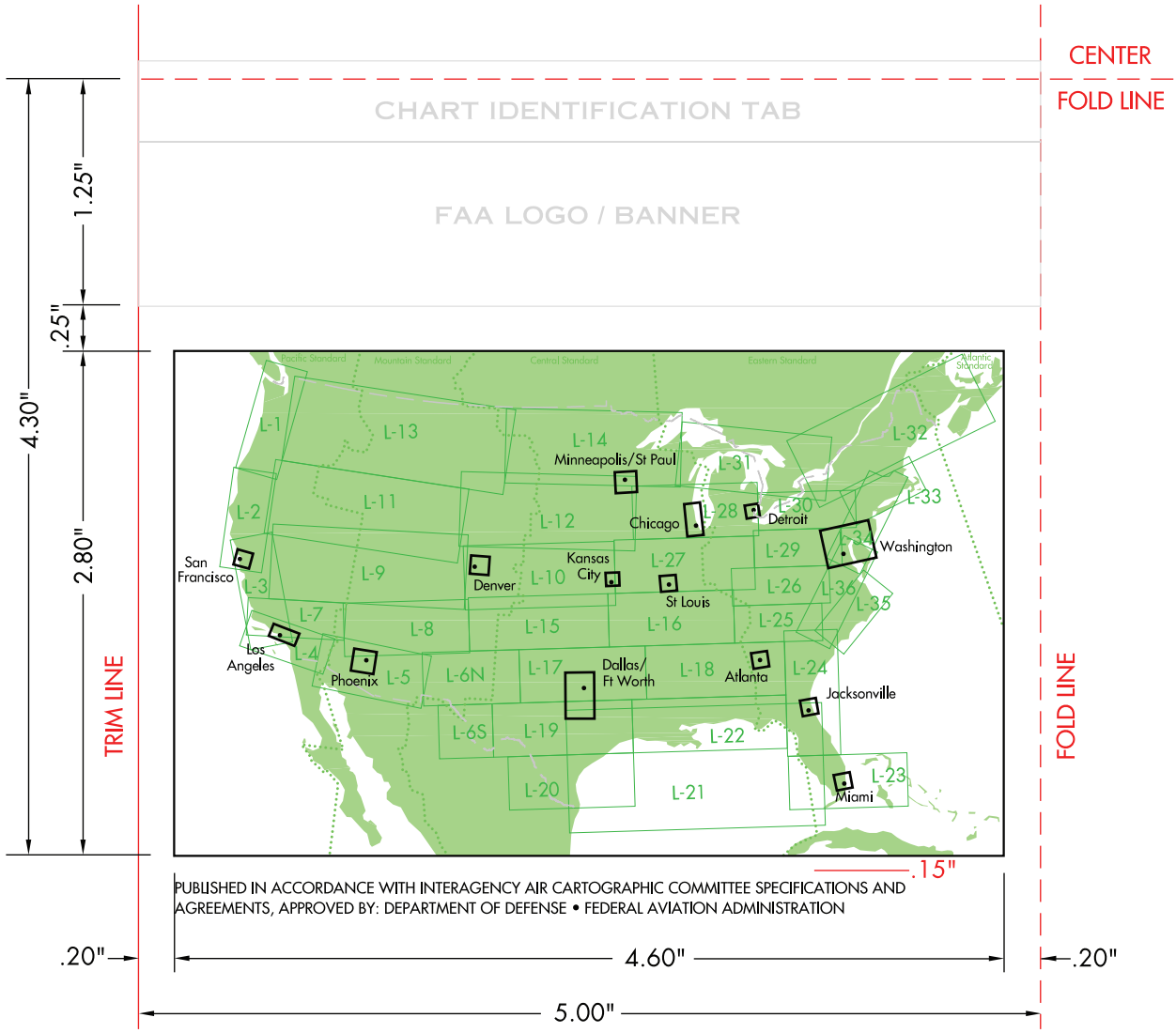


APPROXIMATE LINE SPACINGS SHOWN IN RED

APPENDIX 58
CHART IDENTIFICATION & TITLE AREA - AREA CHARTS (CONTINUED)

TITLE PANEL - AREA CHARTS			
Area Chart Distinctive Header	CAPS	.14" Futura Medium/45% Blue	A A A A A
Foreign Airspace Warning Text Box Lineweight & Color	C/L	.07" Futura Medium/Black .008"/Black	Warning: Refer to current foreign...
Chart Identification Area List of Cities Text Color Arrowheads Chart Identification Text Color	C/L CAPS	.07" Futura Medium 45% Black or Solid Black .11" Reverse 45% Black or Solid Black	San Francisco Los Angeles Phoenix Denver Kansas City Dallas/Fort Worth Chicago/Milwaukee Minneapolis/St Paul Detroit St Louis Atlanta Jacksonville Miami Washington A-2 A-1
Chart Title First and Second Lines Third Line Altitude Note Effectivity & Expiration Note Effective Time Effective Date Expiration Time Expiration Date NOTAM Note Legend Note Publishers Credit Note	 CAPS CAPS C/L CAPS CAPS CAPS CAPS C/L C/L C/L	 .11" Futura Medium/Black .17" Futura Medium/Black .09" Futura Medium/Black .11" Helvetica 65 Medium/Solid Blue .17" Helvetica 65 Medium/Solid Blue .11" Helvetica 65 Medium/Solid Blue .13" Helvetica 65 Medium/Solid Blue .07" Futura Medium/Black .07" Futura Medium/Black .07" Futura Medium/Black	UNITED STATES... IFR AREA... For use up to but not... EFFECTIVE 0901Z 10 MAR 2011 TO 0901Z 5 MAY 2011 Consult NOTAMs for latest Information Consult ENROUTE CHARTS for LEGEND... Published by the U.S. Department of Transportation

APPENDIX 59
CHART INDEX - AREA CHARTS

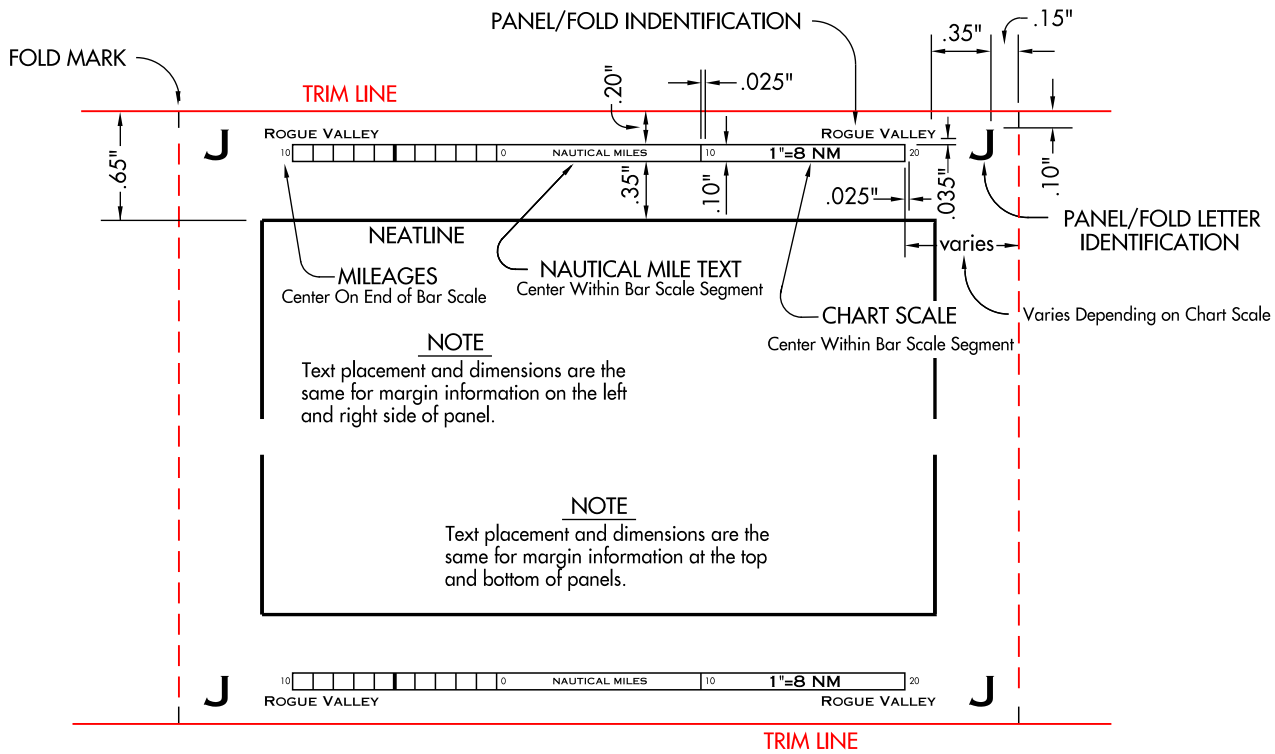


APPROIMATE LINE SPACINGS SHOWN IN RED

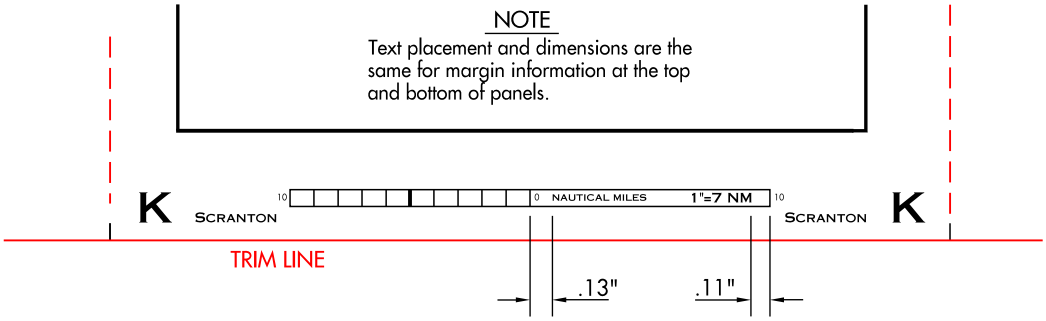
AREA CHARTS			
Chart Identificaton	CAPS	.08" Futura Medium/Green	L-21
Area Chart Cities			
Symbol		.025" Diameter/Black	•
Name	C/L	.06" Futura Medium/Black	Washington
Borders & Outlines			
Chart Index Border		.012"/Black	
Area Chart Coverage Border		.014"/Black	
Enroute Chart Outlines		.005"/Green	
Time Zones & Boundaries			
Time Zone Name	C/L	.04" Futura Medium/45% Green	Eastern Standard
Time Zone Boundary		.015" Diameter/45% Green	
Land Areas		10% Green	
IACC Credit Note	CAPS	.065" Futura Medium/Black	PUBLISHED IN ACCORDANCE WITH...

APPENDIX 60
MARGIN INFORMATION - BAR SCALES - AREA CHARTS

Bar Scales - One Panel - Area Charts

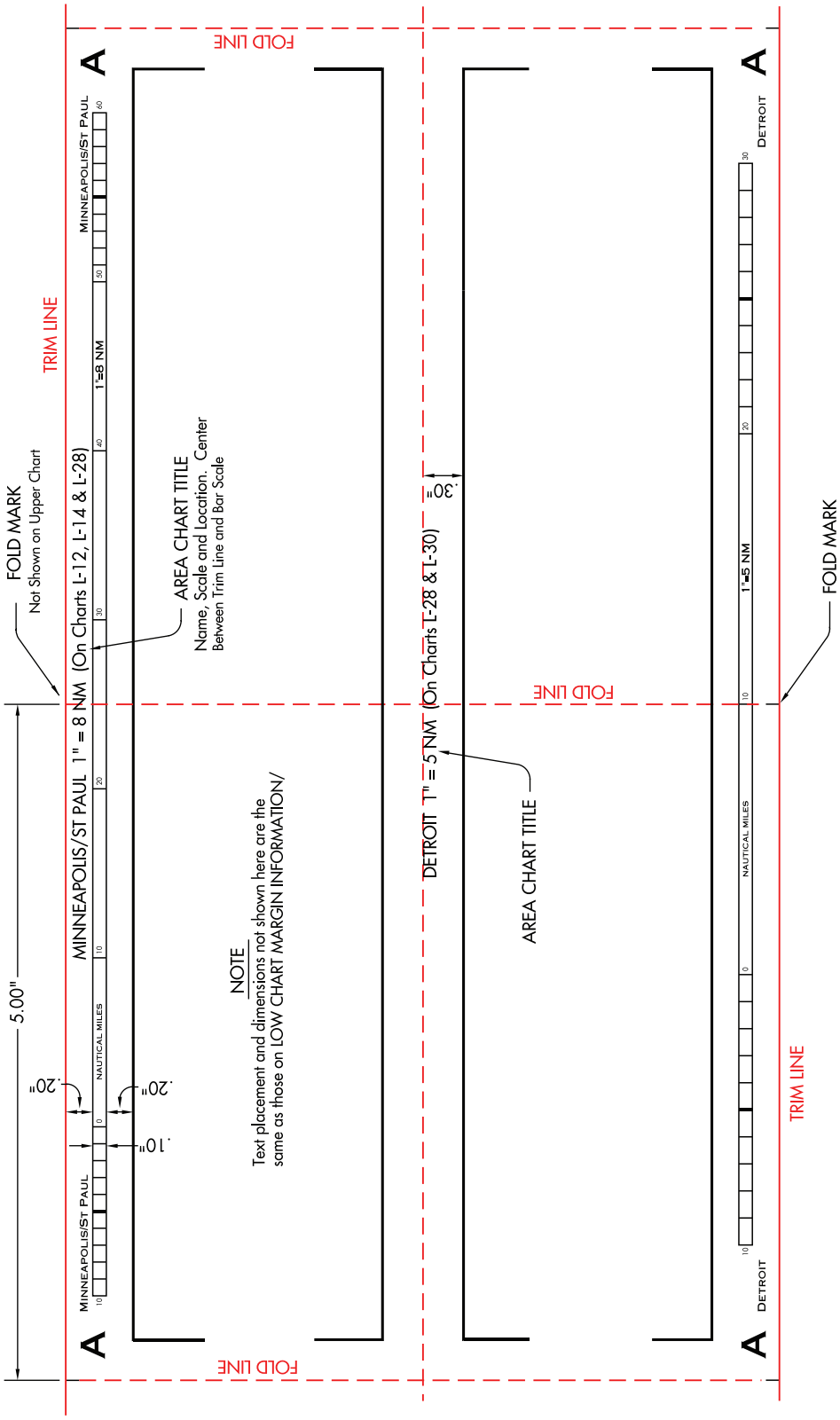


Differences for Chart Scale 1:7



APPENDIX 60
MARGIN INFORMATION - BAR SCALES - AREA CHARTS (CONTINUED)

Bar Scales - Two Panel - Area Charts

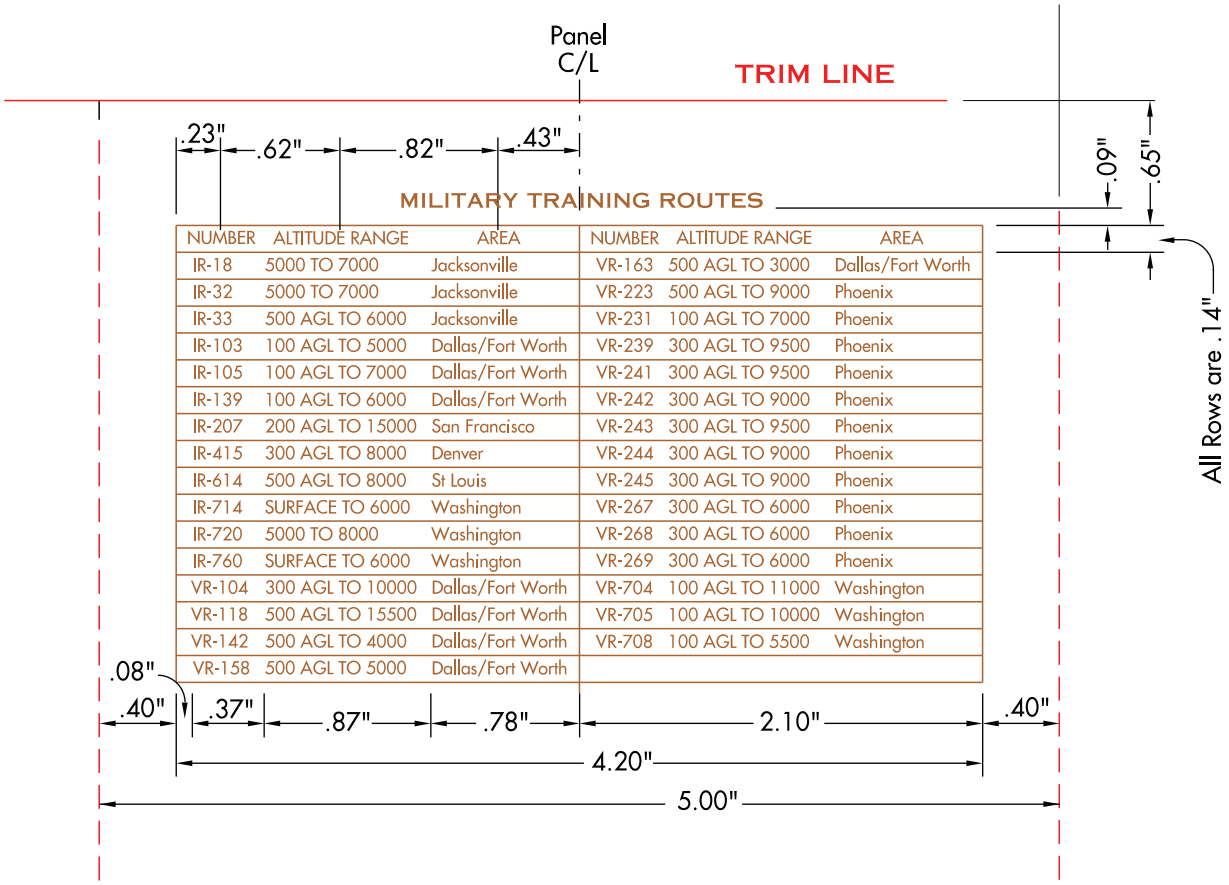


APPENDIX 60
MARGIN INFORMATION - BAR SCALES - AREA CHARTS (CONTINUED)

MARGIN INFORMATION - AREA CHART			
Chart Title			
Name & Scale	CAPS	.10" Futura Medium/Black	DENVER 1" = 7 NM
Chart References	C/L	.10" Futura Medium/Black	(On Chart L-10)
Panel Fold			
Letter	CAPS	.19" Copperplate Gothic 31/Black	H
City or NAVAID Identification	CAPS	.06" Copperplate Gothic 31/Black	PHOENIX
Fold Mark Weight & Length		.008"/.10"/Black	|
Chart Scale			
Units Text	CAPS	.04" Copperplate Gothic 31/Black	NAUTICAL MILES
Mileage Numbers		.04" Futura Medium/Black	20
Scale Text	CAPS	.06" Copperplate Gothic 31/Black	1"=8 NM
Scale Bar Lineweight		.008"/Black	
Effective Date (Back side of Chart)	CAPS	.08" Futura Medium/Black	EFFECTIVE 18 NOV 2010 TO...

MARGIN INFORMATION - AIRWAY/ROUTE INFORMATION					
Airway Route Text & Color					
VHF/UHF	CAPS	.06" Futura Medium/Black			MACON 112 9 MCM 76
LF/MF	CAPS	.06" Futura Medium/Brown			OSCARVILLE 251 OSE
LF/MF with DME					
LF/MF Data	CAPS	.06" Futura Medium/Brown			371 PDN 32 (109.5)
DME Data	CAPS	.06" Futura Medium/Black			
RNAV Waypoint	CAPS	.06" Futura Medium/Blue			DIBWO
		VHF/UHF	LF/MF	RNAV	
Geographic Coordinates					
Color		Black	Brown	Blue	N60°37.13'-W135°08.33' N60°26.37'-W134°51.68' N60°37.13'-W135°08.33'
Text		.05" Helvetica 66 Medium Italic			
		VHF/UHF	LF/MF		
Shutdown Status					
Color		45% Black	45% Brown		
Lineweight		.007"			

APPENDIX 61
MILITARY TRAINING ROUTES TABULATION - AREA CHARTS



NUMBER	ALTITUDE RANGE	AREA	NUMBER	ALTITUDE RANGE	AREA
IR-18	5000 TO 7000	Jacksonville	VR-163	500 AGL TO 3000	Dallas/Fort Worth
IR-32	5000 TO 7000	Jacksonville	VR-223	500 AGL TO 9000	Phoenix
IR-33	500 AGL TO 6000	Jacksonville	VR-231	100 AGL TO 7000	Phoenix
IR-103	100 AGL TO 5000	Dallas/Fort Worth	VR-239	300 AGL TO 9500	Phoenix
IR-105	100 AGL TO 7000	Dallas/Fort Worth	VR-241	300 AGL TO 9500	Phoenix
IR-139	100 AGL TO 6000	Dallas/Fort Worth	VR-242	300 AGL TO 9000	Phoenix
IR-207	200 AGL TO 15000	San Francisco	VR-243	300 AGL TO 9500	Phoenix
IR-415	300 AGL TO 8000	Denver	VR-244	300 AGL TO 9000	Phoenix
IR-614	500 AGL TO 8000	St Louis	VR-245	300 AGL TO 9000	Phoenix
IR-714	SURFACE TO 6000	Washington	VR-267	300 AGL TO 6000	Phoenix
IR-720	5000 TO 8000	Washington	VR-268	300 AGL TO 6000	Phoenix
IR-760	SURFACE TO 6000	Washington	VR-269	300 AGL TO 6000	Phoenix
VR-104	300 AGL TO 10000	Dallas/Fort Worth	VR-704	100 AGL TO 11000	Washington
VR-118	500 AGL TO 15500	Dallas/Fort Worth	VR-705	100 AGL TO 10000	Washington
VR-142	500 AGL TO 4000	Dallas/Fort Worth	VR-708	100 AGL TO 5500	Washington
VR-158	500 AGL TO 5000	Dallas/Fort Worth			

MILITARY TRAINING ROUTES - AREA CHART			
Table Title	CAPS	.08" Copperplate Gothic 31/Brown	MILITARY TRAINING ROUTES
Column Headings	CAPS	.07" Futura Medium/Brown	NUMBER ALTITUDE RANGE AREA
Tabulated Information			
Number & Altitude Range	CAPS	.07" Futura Medium/Brown	VR-223 500 AGL TO 9000 Phoenix
Area	C/L	.07" Futura Medium/Brown	
Table Lineweight		.008" Brown	

APPENDIX 62
SUA & MOA TABULATION - AREA CHARTS

Panel C/L

2.50"

TRIM LINE

MILITARY TRAINING ROUTES

Varies

ARTCC three letter idents: Albuquerque ZAB, Atlanta ZTL, Chicago ZAU, Cleveland ZOB, Denver ZDV, Fort Worth ZFW, Jacksonville ZJX, Kansas City ZKC, Los Angeles ZLA, Miami ZMA, Minneapolis ZMP, Oakland ZOA, Washington ZDC

.07"

A - Alert, P - Prohibited, R - Restricted, W - Warning Areas

.06"

All altitudes are MSL unless otherwise indicated
FL - Flight Level
TIME - Hours shown are UTC unless otherwise indicated
DAYS - Sunrise to Sunset except Canada where it means 1/2 hr before sunrise to 1/2 hr after sunset
NIGHTS - Sunset to Sunrise except Canada where it means 1/2 hr after sunset to 1/2 hr before sunrise

CONT - Continuous: 24 hrs a day, 7 days a week
‡ - During periods of Daylight Saving Time (DT) effective hours will be one hour earlier than shown.
NOTAM - Use of this term in Restricted Areas indicates FAA And DoD NOTAM systems. Use of this term in all other Special Use areas indicates the DoD NOTAM system.

1.17"

.20" minimum

.09"

.20"

.08"

SPECIAL USE AIRSPACE

NUMBER	EFFECTIVE ALTITUDE	TIMES USED, UTC	CONTROLLING AGENCY A/G CALL	PANEL
CHICAGO				
P-51	TO BUT NOT INCLUDING 2500	CONT	No A/G	E
DALLAS/FORT WORTH				
CYR 156	300 AGL TO BUT NOT INCLUDING 7000	1900 - 2030Z, 2230 - 2400Z, MON - FRI;	ZAN CNTR/FSS	A
JACKSONVILLE				
A-54	TO BUT NOT INCLUDING 2500	CONT	No A/G	E
CYA 124	TO 1000 ASL OCSL TO 5000 BY NOTAM	INTERMITTENT, BY NOTAM, SR - SS 2 HOURS IN ADVANCE	U.S. NAVY, WHIDBEY ISLAND NAVAL AIR STATION APP CON	J
CYR 158	300 AGL TO BUT NOT INCLUDING 7000	1900 - 2030Z, 2230 - 2400Z, MON - FRI; *1 BETWEEN 1600 - 0700Z, MON - FRI; PENDING SPECIAL USE AIRSPACE INFORMATION SERVICE AVAILABILITY	ZAN CNTR/FSS	A

.06"

.05"

*1 Other Times By NOTAM
*2 To But Not Including FL 180

Spacing Varies .09" minimum

MILITARY OPERATIONS AREAS

NUMBER	EFFECTIVE ALTITUDE	TIMES USED, UTC	CONTROLLING AGENCY A/G CALL	PANEL
CHICAGO				
BUFFALO	300 AGL TO BUT NOT INCLUDING 7000	1700-0300Z‡, MON - FRI *1	ZAN CNTR/FSS	A
DALLAS/FORT WORTH				
CHINOOK A&B	300 To 5000	INTERMITTENT BY NOTAM	ZSE CNTR/FSS	E
JACKSONVILLE				
DELTA 3	3000 AGL *2	By NOTAM	ZAN CNTR/FSS	A
YUKON 3A LOW	100 AGL TO BUT NOT INCLUDING 7000	1900-2030Z‡, MON - FRI; 2230-2400Z‡, MON - FRI *1	ZAN CNTR/FSS	E

.06"

*1 OTHER TIMES BY NOTAM
*2 TO BUT NOT INCLUDING FL 180

TRIM LINE or FOLD LINE

TRIM LINE or FOLD LINE

.07"

.20"

.65"

1.30"

1.35"

1.05"

.25"

.20"

4.60"

5.00"

APPROXIMATE LINE SPACINGS SHOWN IN RED

APPENDIX 62
SUA & MOA TABULATION - AREA CHARTS (CONTINUED)

SUAs & MOAs TABULATION - AREA CHART			
ARTCC Listing	C/L	.06" Futura Medium/Black	ARTCC three letter idents:
Legend	C/L	.07" Futura Medium/Black	P - PROHIBITED, R - RESTRICTED,
Additional Text	C/L	.06" Futura Medium/Black	All altitudes are MSL unless otherwise indicated
Table Title	CAPS	.07" Copperplate Gothic 31/Black	SPECIAL USE AIRSPACE
City Name	CAPS	.07" Futura Medium/Black	CHICAGO
Tabulated Information			
Column Headings	CAPS	.05" Futura Medium/Black	NUMBER
Tabulated Information	C/L	.05" Futura Medium/Black	R-6903 MINNOW
Footnotes	C/L	.05" Futura Medium/Black	*1 Other Times By NOTAM
Table Lineweight		.008"/Black	

APPENDIX 63
TERRAIN CONTOURS - AREA CHARTS

TERRAIN CONTOURS - AREA CHARTS			
Countours Values Lineweight Colors		 .04" Futura Medium/45% Brown .001"/45% Brown Screened Brown	2000 5% 15% 25% 35% 45%
Spot Elevations Spot Elevations Symbol Value Highest Spot Elevations Symbol Value		 .035" Diameter/Black .05" Futura Medium/Black .050" Diameter/Black .06" Futura Medium/Black	 10955 13176
Terrain Countours Note Text Lineweight	CAPS	.05" Futura Medium/Black .015"/Black	NOTE: TERRAIN CONTOURS HAVE BEEN ADDED TO THOSE AREA CHARTS WHERE THE TERRAIN ON THE CHART IS 1000 FOOT OR GREATER THAN THE ELEVATION OF THE PRIMARY AIRPORT

APPENDIX 64
TITLE PANEL LAYOUT - U.S. L-21

Warning: Refer to current foreign charts and flight information publications for information within foreign airspace

L-22
PANELS
EFGHIJ
1"=10 NM

L-21
PANELS
ABCD
1"=23 NM

UNITED STATES GOVERNMENT
FLIGHT INFORMATION PUBLICATION

IFR ENROUTE LOW ALTITUDE - U.S.

For use up to but not including 18,000′ MSL

EFFECTIVE 0901Z 20 OCT 2011
TO 0901Z 15 DEC 2011

Consult NOTAMs for latest Information

Published by the
U.S. Department of Transportation
Federal Aviation Administration
AeroNav Products
http://aeronav.faa.gov

CORRECTIONS, COMMENTS, AND/OR PROCUREMENT

FOR CHARTING ERRORS, OR RECOMMENDATIONS REGARDING FORMAT AND CONTENT CONTACT:

FAA, AeroNav Products
SSMC-4, Sta. # 4445
1305 East West Highway
Silver Spring, MD 20910-3281
Telephone 1-800-626-3677
Email 9-AMC-Aerochart@faa.gov

FOR PROCUREMENT CONTACT:

FAA, AeroNav Products Logistics Group
10201 Good Luck Road
Glenn Dale, MD 20769-9700
Online at http://aeronav.faa.gov
Telephone 1-800-638-8972
Fax 301-436-6829
or any authorized chart agent
Email Questions to: 9-AMC-Chartsales@faa.gov

MILITARY

For Corrections Information, See Chapter 11 of General Planning (GP). For Procurement refer to DOD Catalog of Aeronautical Charts and Flight Information Publications.

Frequently asked questions (FAQ) are answered on our web site at http://aeronav.faa.gov
See the FAQs prior to contact via toll free number or email.

L-21 is intended for offshore navigation only.
Detailed onshore information has been intentionally omitted.
Refer to charts L-19/20, L-22, L-23/24 for detailed onshore information.

ATTENTION

THIS CHART CONTAINS OFF ROUTE OBSTRUCTION CLEARANCE ALTITUDES (OROCA).
The off route obstruction clearance altitudes shown in quadrangles bounded by ticked lines of latitude and longitude are represented in THOUSANDS and HUNDREDS of feet above mean sea level. The OROCA is based on information available concerning the highest known features in each quadrangle, including terrain and obstructions. OROCA provides obstruction clearance with a 1000 foot buffer in designated non-mountainous areas and a 2000 foot buffer in designated mountainous areas within the United States. For areas in Mexico and the Caribbean which are located outside of the U.S. ADIZ, OROCA provides obstruction clearance with a 3000 foot buffer. This altitude is provided for obstruction clearance only. It does not provide for NAVAID signal coverage or communication coverage, and would not be consistent with altitudes assigned by Air Traffic Control.

Example: 12,500 feet ..... 12[5]

APPENDIX 64
TITLE PANEL LAYOUT - U.S. L-21 (CONTINUED)

TITLE PANEL - LOW ENROUTE CHART - L-21			
Offshore Navigation Note Main Heading Box Lineweight	C/L	.09" Futura Medium/Black .007"/Black	L-21 is intended for offshore...

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