

GENERAL**Operational Hours****ATS Hours:** H24**AD OPS Hours:** Attended continuously**Airport Information****RFF:** FAA Index A / CAT 5**PCN:** RWY 14R/32L: 86/F/B/W/T**Operation****RWY Restriction**

RWY 14L/32R MAX strength 5.7t / 12500lbs.

RWY 14R/32L: Pavement extension 268m / 880ft for special use AVBL 72HRs PPR.

RWY 14R/32L and TWY B: Simultaneous OPS allowed for ACFT with MAX wingspan 35.6m / 117ft.

TWY Restriction

TWY A1 and TWY A from A1-A3 MAX strength 68t / 150000lbs, MAX wingspan 33m /108ft.

TWY A2, B2, A11 MAX strength 27t / 60000lbs.

TWY A3, A5, A8 MAX strength 5.7t / 12500lbs.

TWY Z 268m / 880ft special use pavement AVBL 72HR PPR.

Parking: PPR for ACFT with MTOW 5.7t / 12500lbs is recommended.**VOR TEST FACILITY (VOT):** 108.6**Warnings****SEA VOR** unusable:

R233-R273 beyond 20NM below 8000ft.

R233-R273 beyond 8NM below 5500ft.

R333-R353 beyond 15NM below 3500ft.

SEA DME unusable:

R008-R028 beyond 20NM below 4500ft.

R203-R253 beyond 27NM.

Birds in vicinity of AD.

EMERG FREQ: 121.500 not AVBL on TWR.

17-AUG-2017

BFI-KBFI

1-20

A0I**A0I****ARRIVAL****Speed**

MAX IAS 250KT below 10000ft.

Communication**COM Failure:** See CRAR United States and in addition;**CHINS:** After AUBRN DME proceed direct SEA VOR/DME.**EPHRATA/GLASR:** From over HETHR proceed direct SEA VOR/DME.**JAWBN:** After ALKIA, proceed direct SEA VOR/DME.**OLYMPIA:** From over FOURT, proceed direct SEA VOR/DME.**Arrival Procedure****VFR Traffic Pattern:** RWY 14R/32L: 800ft AMSL.**Warnings****ILS/DME RWY 14R** unusable:

- DME beyond 30° left of course
- LOC beyond 20° left of course

ILS/DME RWY 32L unusable:

- ILS/DME beyond 10° right of course
- LOC beyond 15° right of course
- GP beyond 7NM from THR

DEPARTURE**Take-off Minima**

RWY		32L	
	ft - ft/SM	SID CBAIN	
1+2 ENG		0 - 1.0V	MNM climb gradient 7.0% up to 1400
3+4 ENG		0 - 0.5V	
		SID NEEDLE	
1+2 ENG		0 - 1.0V	MNM climb gradient 7.0% up to 1400
3+4 ENG		0 - 0.5V	
All ACFT		c400 - 1.88V	MNM climb gradient 4.0% up to 1400
		All other departures	
1+2 ENG		0 - 1.0V	MNM climb gradient 7.0% up to 500
3+4 ENG		0 - 0.5V	
All ACFT		c400 - 1.88v	MNM climb gradient 3.9% up to 800
		Not authorized	SID KENT, SID NRVA

RWY		14R	
	ft - ft/SM	SID NRVA	
1+2 ENG		0 - 1.0V	MNM climb gradient 8.4% up to 700
3+4 ENG		0 - 0.5V	
		SID KENT	
1+2 ENG		0 - 1.0V	MNM climb gradient 8.4% up to 700
3+4 ENG		0 - 0.5V	
All ACFT		c600 - 3.0V	MNM climb gradient 4.3% up to 700
		All other departures	
1+2 ENG		0 - 1.0V	MNM climb gradient 8.3% up to 600
3+4 ENG		0 - 0.5V	
All ACFT		c500 - 2.0V	MNM climb gradient 5.2% up to 700
		Not authorized	SID CBAIN, SID NEEDLE

DEPARTURE**Speed**

MAX IAS 250KT below 10000ft.

Communication

COM Failure: See CRAR United States.

Departure Procedure**Gatehold PROC**

During peak DEP periods, gatehold procedures are implemented for all IFR-DEP. Additional Info via ATIS.

ATC Slot, Clearance**Oceanic DEP**

Contact DLV only when ready to taxi within 10min. State DEST, REQ ALT, report 10min to taxi.

If ATC delays are more than 15min for filed ALT/route, alternatives with less delay will be offered.

Failure to depart the gate within 10min or reach RWY at release time specified in IFR-clearance may result in cancellation of clearance.

Effective 24-MAY-2018

17-MAY-2018

BFI-KBFI

United States **Seattle** Boeing Fld/King County Intl

AGC

AFC

AFC

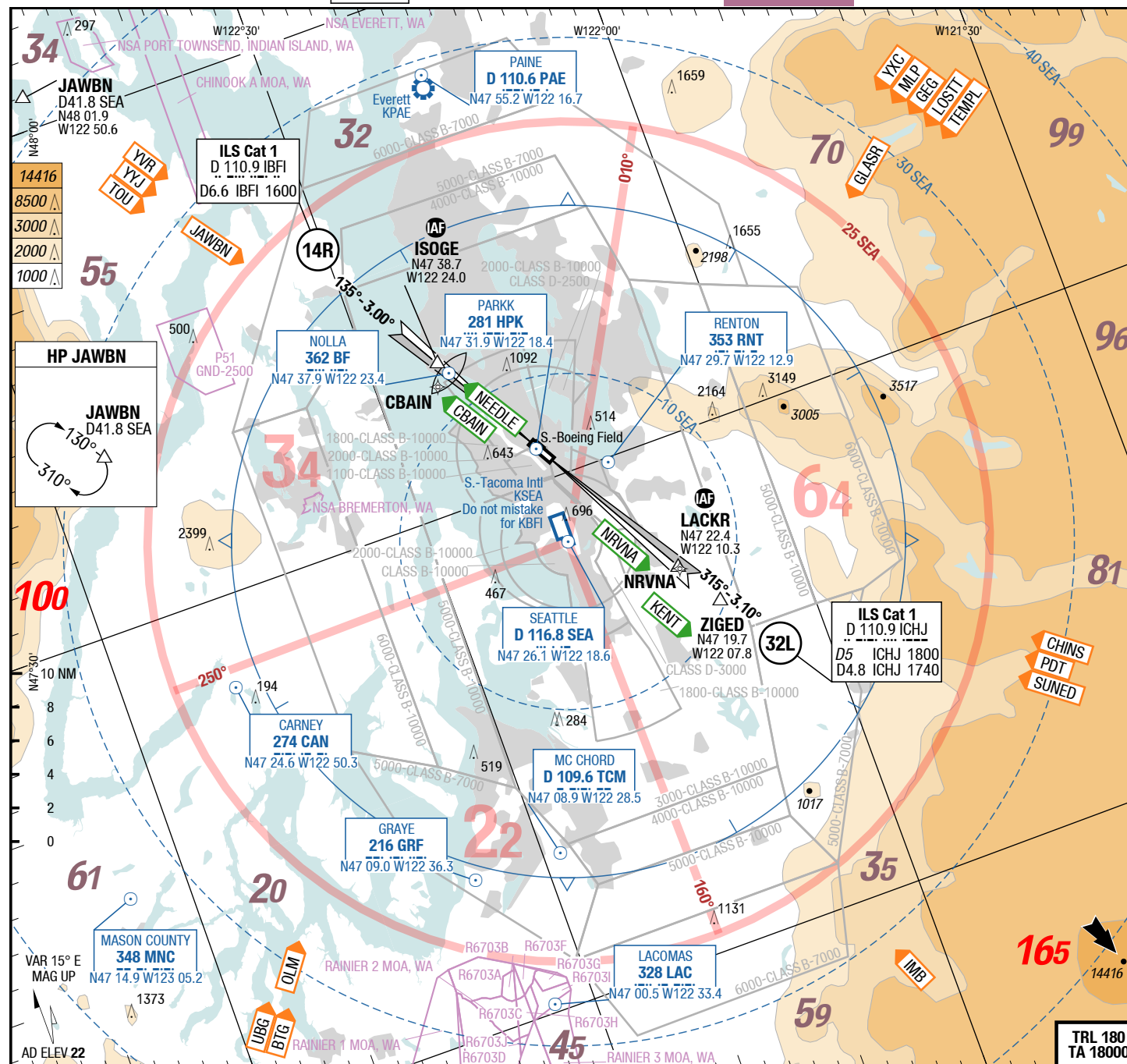
AFC

Boeing Fld/King County Intl **Seattle** United States

AGC

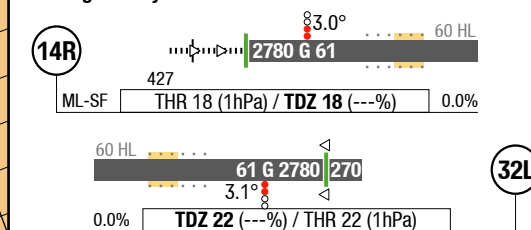
AFC

2-10



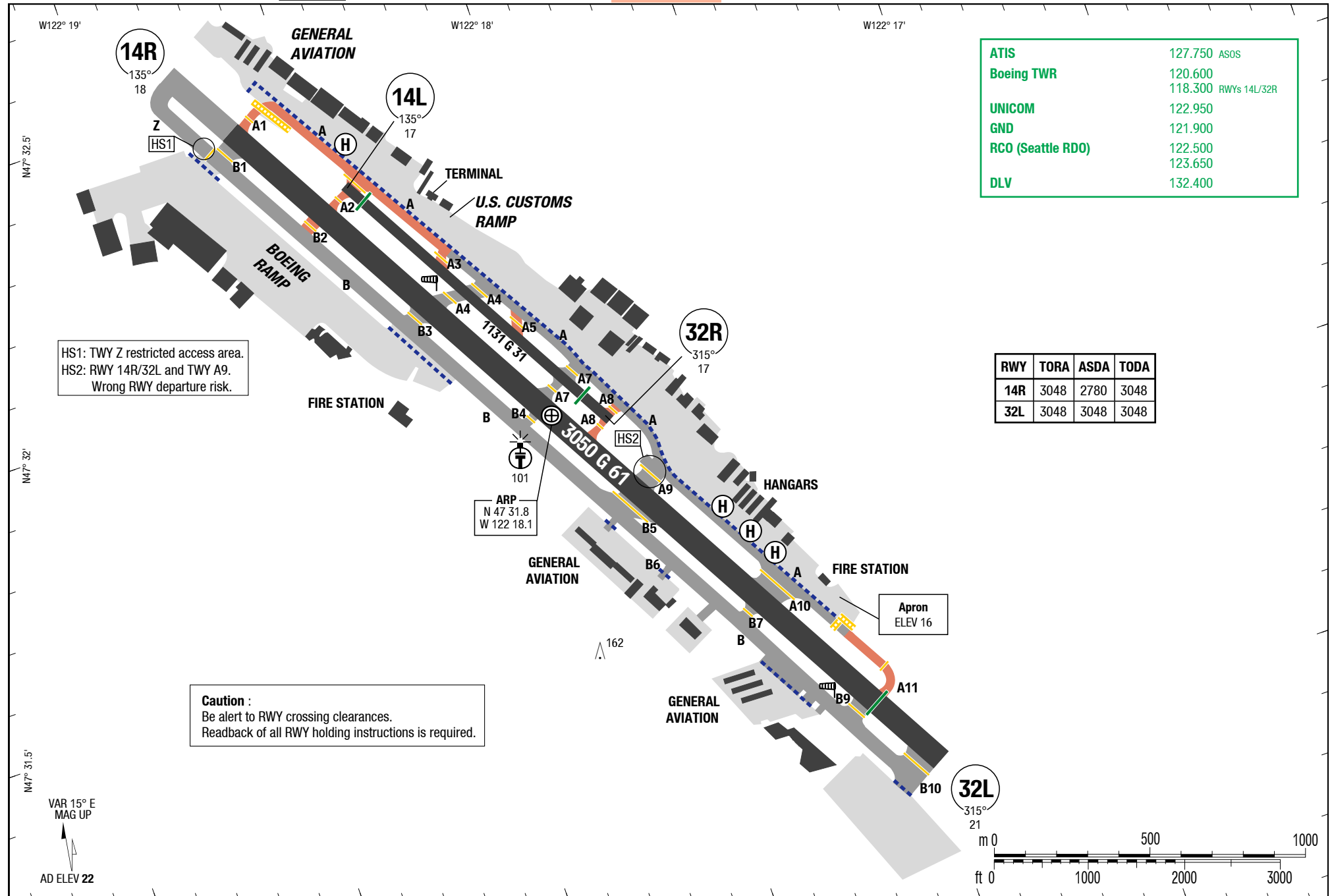
ATIS 127.750 ASOS
APP/DEP 119.200 076°-160° RWY 14, 341°-075°
120.100 199°-300°
120.400 301°-340° RWY 32
125.900 076°-160° RWY 32, 301°-340° RWY 14
126.500 161°-198°
Boeing TWR 120.600
118.300 RWYs 14L/32R
UNICOM 122.950
GND 121.900
RCO (Seattle RDO) 122.500
123.650
DLV 132.400

Landing RWY system:



Changes: FREQ, APL, OBST

3-20



ATIS	127.750	ASOS
Boeing TWR	120.600	
	118.300	RWYs 14L/32R
UNICOM	122.950	
GND	121.900	
RCO (Seattle RDO)	122.500	
	123.650	
DLV	132.400	

RWY	TORA	ASDA	TODA
14R	3048	2780	3048
32L	3048	3048	3048

BFI-KBFI

CBAIN 1 RNAV

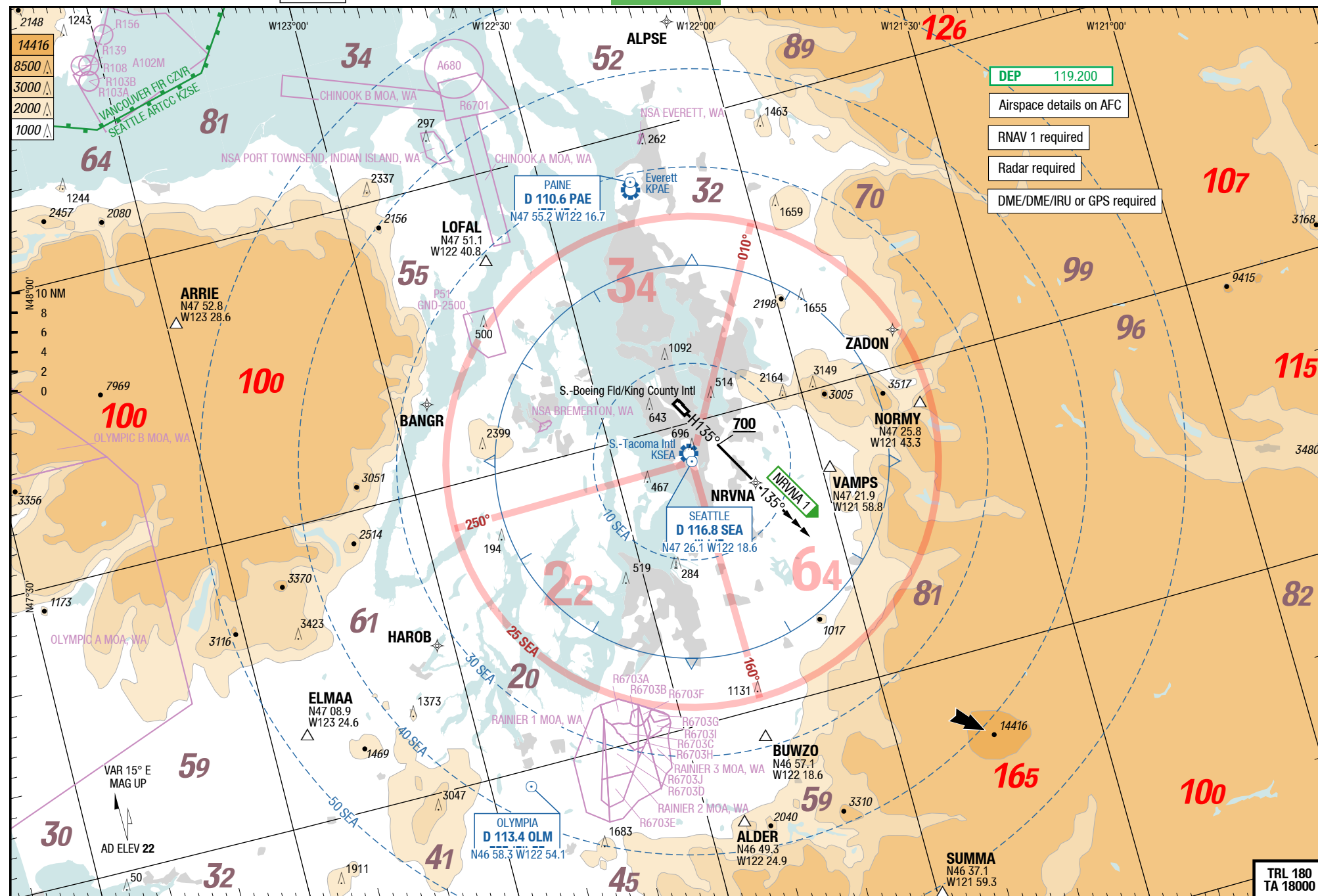
NRVNA 1 RNAV

SID

510

CBAIN 1 RNAV

NRVNA 1 RNAV



Changes: OBST

TRL 180
TA 18000

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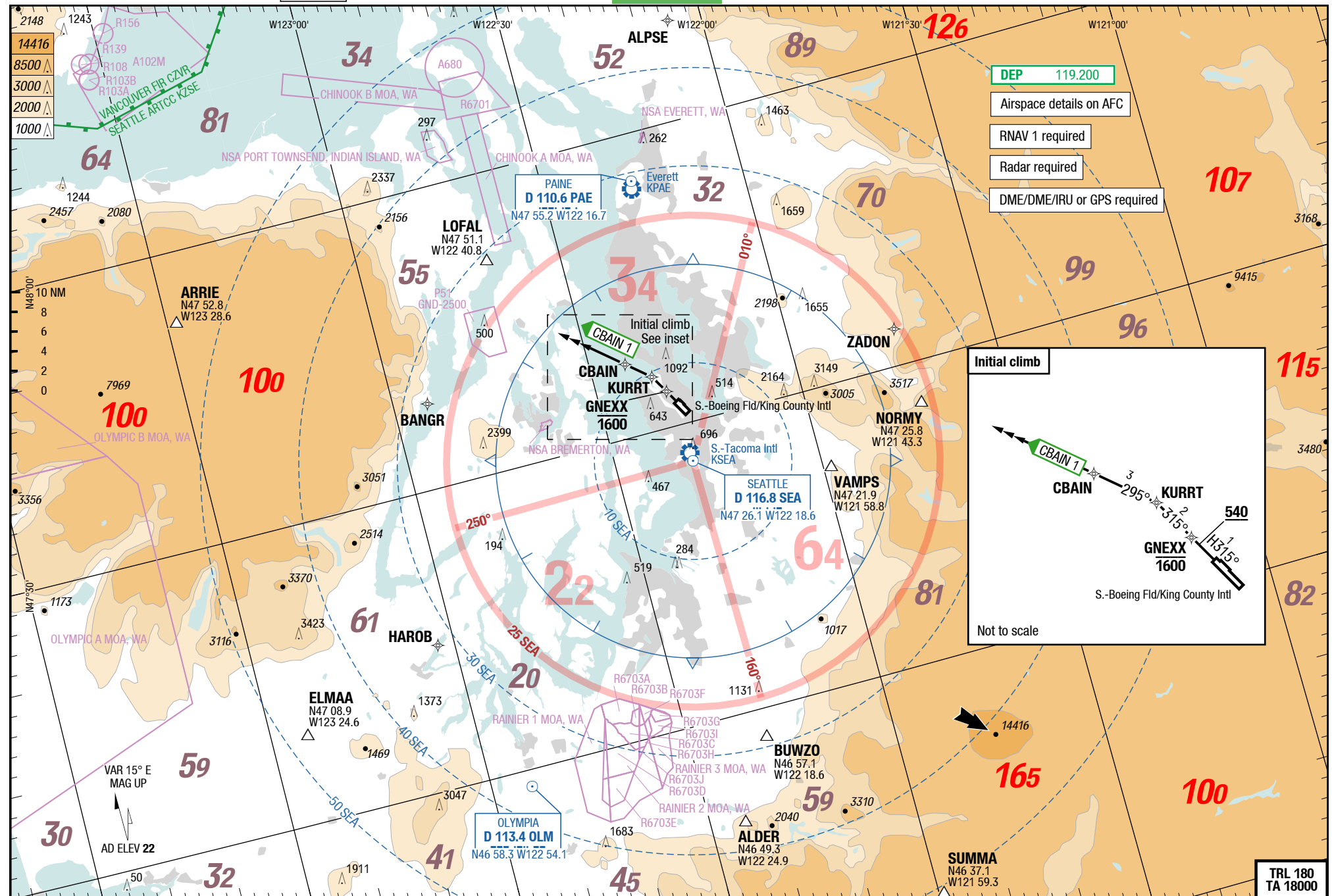
4-20

CBAIN 1 RNAV

SID

SID

CBAIN 1 RNAV



Changes: OBST

TRL 180
TA 18000

BFI-KBFI

NIL

4-30

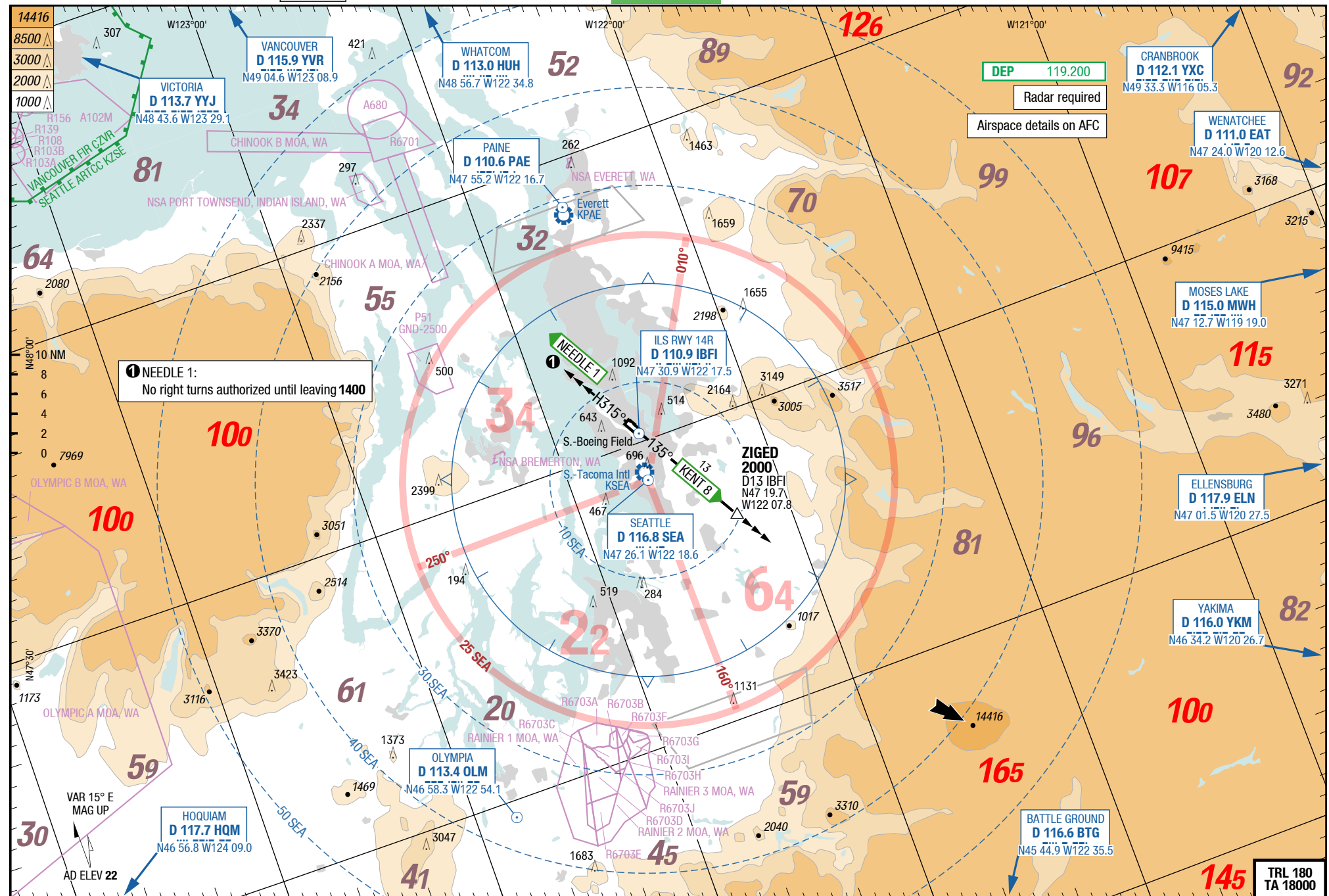
KENT 8 / NEEDLE 1

SID

SID

NIL

KENT 8 / NEEDLE 1



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5-10

NRVNA 1 RNAV**NRVNA 1**

RWY 14R (135°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 14R	
NRVNA 1 119.200 ①	HDG° 135 - at MNM 700 direct NRVNA - expect radar vector to assigned route/fix	initial climb 2000 or assigned altitude

① Expect clearance to filed ALT/FL within three minutes after departure

Changes: New

BFI-KBFI

5-20

CBAIN 1 RNAV**CBAIN 1**

RWY 32L (315°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 32L	
CBAIN 1 119.200 ①	HDG° 315 - at MNM 540 direct GNEXX - KURRT - CBAIN - expect vectors to assigned route/fix	GNEXX MAX 1600 initial climb 2100 or assigned altitude

① Expect clearance to filed ALT/FL within 3 minutes after departure

BFI-KBFI

5-30

KENT 8 / NEEDLE 1**KENT 8 / NEEDLE 1**

RWYs 14R (135°) / 32L (315°)

DESIGNATOR	ROUTING	ALTITUDES
KENT 8 (RWY 14R) 119.200 ②	Intercept 135° IBFI LOC outbound to ZIGED - expect vectors to assigned route/fix	ZIGED at 2000 initial climb 2000 or assigned altitude
NEEDLE 1 (RWY 32L) 119.200 ①②	HDG 315° - expect vectors to assigned route/fix	 initial climb 2100 or assigned altitude

① No right turns authorized until leaving 1400.

② Expect clearance to filed altitude 3 minutes after departure

Obstacle Departure	
RWY	Routing
14R	RT direct SEA . Climb in SEA HP (E, LT , 290° inbound) to cross SEA MNM 3000 before proceeding on course; or in visual conditions: Cross KBFI MNM 900 , intercept R344 SEA to SEA . Climb in SEA HP (E, LT , 290° inbound) to cross SEA MNM 3000 before proceeding on course.
32L	LT direct SEA . Climb in SEA HP (E, LT , 290° inbound) to cross SEA MNM 3000 before proceeding on course; or in visual conditions: Cross KBFI MNM 900 , intercept R344 SEA to SEA . Climb in SEA HP (E, LT , 290° inbound) to cross SEA MNM 3000 before proceeding on course.
RWY	Notes
14R	Railroad 50ft from DER, 453ft left of centerline, 46ft MSL. Railroad, tree and RD beginning 128ft from DER, 277ft left of centerline, up to 47ft MSL. Lighted pole 202ft from DER, 539ft right of centerline, 64ft MSL. Signs, railroads, RDs and trees beginning 263ft from DER, 280ft left of centerline, up to 98ft MSL. Poles, obstruction lights DME, NAVAID and trees beginning 411ft from DER, 283ft right of centerline, up to 66ft MSL. Trees, railroads and RD beginning 793ft from DER, 240ft left of centerline, up to 61ft AGL/ 116ft MSL. Trees, RDs, railroads, poles, sign, elec sys, towers and elec transmission lines beginning 891ft from DER, 142ft left of centerline, up to 113ft AGL/ 129ft MSL. Trees, BLDG and poles beginning 1123ft from DER, 2ft right of centerline, up to 87ft MSL. TRMSN TWRs beginning 2880ft from DER, 90ft right of centerline, up to 74ft AGL/ 94ft MSL. TRMSN TWR 3138ft from DER, 1305ft right of centerline, 100ft MSL. Trees beginning 3181ft from DER, 344ft right of centerline, up to 91ft AGL/ 106ft MSL. Pole 3278ft from DER, 1292ft right of centerline, 111ft MSL. Elec transmission line 3363ft from DER, 1389ft right of centerline, 121ft MSL. Elec transmission lines and trees beginning 3373ft from DER, 597ft right of centerline, up to 124ft MSL. Elec transmission line and trees beginning 3511ft from DER, 278ft right of centerline, up to 125ft MSL. Trees beginning 3574ft from DER, 710ft right of centerline, up to 132ft MSL. Tree 3658ft from DER, 486ft right of centerline, 139ft MSL. Trees beginning 3680ft from DER, 724ft right of centerline, up to 146ft MSL. Trees and TRMSN TWR beginning 3710ft from DER, 270ft right of centerline, up to 155ft MSL. Trees and poles beginning 3894ft from DER, 773ft right of centerline, up to 183ft MSL. Trees, elec transmission lines, antenna and towers beginning 4017ft from DER, 16ft right of centerline, up to 88ft AGL/ 195ft MSL. Trees beginning 4142ft from DER, 11ft left of centerline, up to 137ft MSL. Trees beginning 4429ft from DER, 4ft left of centerline, up to 130ft AGL/ 149ft MSL. Tree 4671ft from DER, 31ft left of centerline, 130ft AGL/ 153ft MSL. Trees beginning 4694ft from DER, 1172ft left of centerline, up to 167ft MSL. Trees beginning 4807ft from DER, 1051ft left of centerline, up to 193ft MSL. Trees beginning 4978ft from DER, 828ft left of centerline, up to 202ft MSL.

Obstacle Departure	
RWY	Notes
14R	Trees beginning 5257ft from DER, 825ft left of centerline, up to 212ft MSL. Trees beginning 5405ft from DER, 773ft left of centerline, up to 221ft MSL. Trees beginning 5519ft from DER, 684ft left of centerline, up to 229ft MSL. Trees and elec transmission line beginning 5636ft from DER, 75ft left of centerline, up to 234ft MSL. Trees, towers and elec transmission lines beginning 5685ft from DER, 168ft left of centerline, up to 247ft MSL. Trees beginning 5697ft from DER, 477ft right of centerline, up to 95ft AGL/ 217ft MSL. Elec transmission lines, trees and towers beginning 5832ft from DER, 421ft left of centerline, up to 360ft MSL. Trees and TRMSN TWR beginning 1NM from DER, 719ft left of centerline, up to 399ft MSL. Trees, GRD, BLDGs, elec transmission line, TRMSN TWRs, Rds and fence beginning 1.1NM from DER, 970ft left of centerline, up to 437ft MSL. Trees, TRMSN TWRs, Rds, BLDGs, fences, GRD, parking lots, elec transmission line, poles and antenna beginning 1.3NM from DER, 948ft left of centerline, up to 116ft AGL/ 506ft MSL. Trees beginning 2NM from DER, 2647ft left of centerline, up to 523ft MSL. Trees beginning 2.1NM from DER, 2225ft left of centerline, up to 543ft MSL. Trees beginning 2.3NM from DER, 2603ft left of centerline, up to 553ft MSL.
32L	Fence 249ft from DER, 452ft left of centerline, 26ft MSL. BLDG 1022ft from DER, 728ft left of centerline, 50ft MSL. LT pole 1111ft from DER, 683ft right of centerline, 50ft MSL. Trees and LT pole beginning 1166ft from DER, 768ft right of centerline, up to 60ft MSL. Poles, BLDGs and trees beginning 1216ft from DER, 571ft left of centerline, up to 101ft MSL. TRMSN TWRs beginning 1598ft from DER, 790ft right of centerline, up to 68ft MSL. Tree 2192ft from DER, 403ft right of centerline, 54ft AGL/ 81ft MSL. BLDG and tree beginning 2286ft from DER, 385ft right of centerline, up to 85ft MSL. Trees beginning 2407ft from DER, 261ft left of centerline, up to 91ft AGL/ 113ft MSL. TRMSN TWR and tree beginning 2413ft from DER, 350ft right of centerline, up to 97ft MSL. Trees and poles beginning 2468ft from DER, 440ft right of centerline, up to 114ft MSL. Tree 2640ft from DER, 1143ft right of centerline, 127ft MSL. Trees and poles beginning 2717ft from DER, 875ft right of centerline, up to 129ft MSL. Trees, towers and LT poles beginning 3080ft from DER, 431ft right of centerline, up to 140ft MSL. Tree 3316ft from DER, 1366ft right of centerline, 148ft MSL. Trees beginning 3358ft from DER, 821ft right of centerline, up to 157ft MSL. Trees and poles beginning 3449ft from DER, 894ft right of centerline, up to 158ft MSL. Trees beginning 3606ft from DER, 787ft right of centerline, up to 180ft MSL. BLDGs, trees, poles and stacks beginning 3711ft from DER, 543ft right of centerline, up to 196ft MSL. BLDGs, trees and LT pole beginning 3979ft from DER, 883ft right of centerline, up to 216ft MSL. Trees, BLDGs, LT poles, TRMSN TWRs, antenna, parking lot and GRD beginning 4213ft from DER, 706ft right of centerline, up to 241ft MSL. Trees, BLDGs, TRMSN TWRs and LT poles beginning 5403ft from DER, 764ft right of centerline, up to 248ft MSL.

BFI-KBFI**5-70****Obstacle Departure 3****SIDPT****Obstacle Departure**

RWY	Notes
32L	Trees, BLDGs, TRMSN TWRs, LT poles and GRD beginning 1NM from DER, 851ft right of centerline, up to 260ft MSL. Trees, GRD, TRMSN TWR and poles beginning 1.1NM from DER, 1141ft right of centerline, up to 282ft MSL. Trees, LT pole, BLDGs, TRMSN TWRs, elec transmission lines and RDs beginning 1.2NM from DER, 1307ft right of centerline, up to 345ft MSL.

BFI-KBFI

GLASR 1

CHINS 3

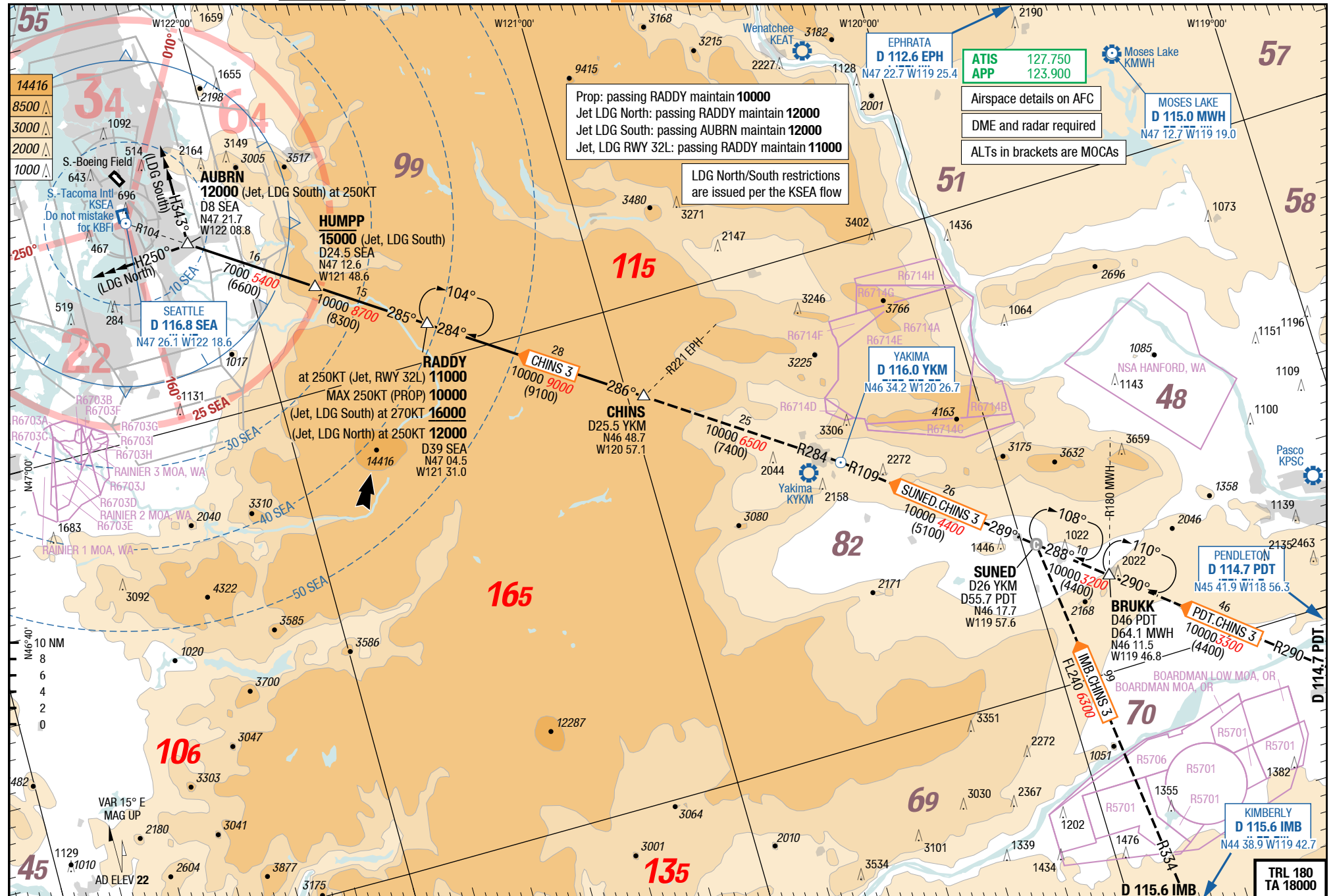
STAR

STAR

GLASR 1

CHINS 3

6-10



Changes: OBST

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BFI-KBFI

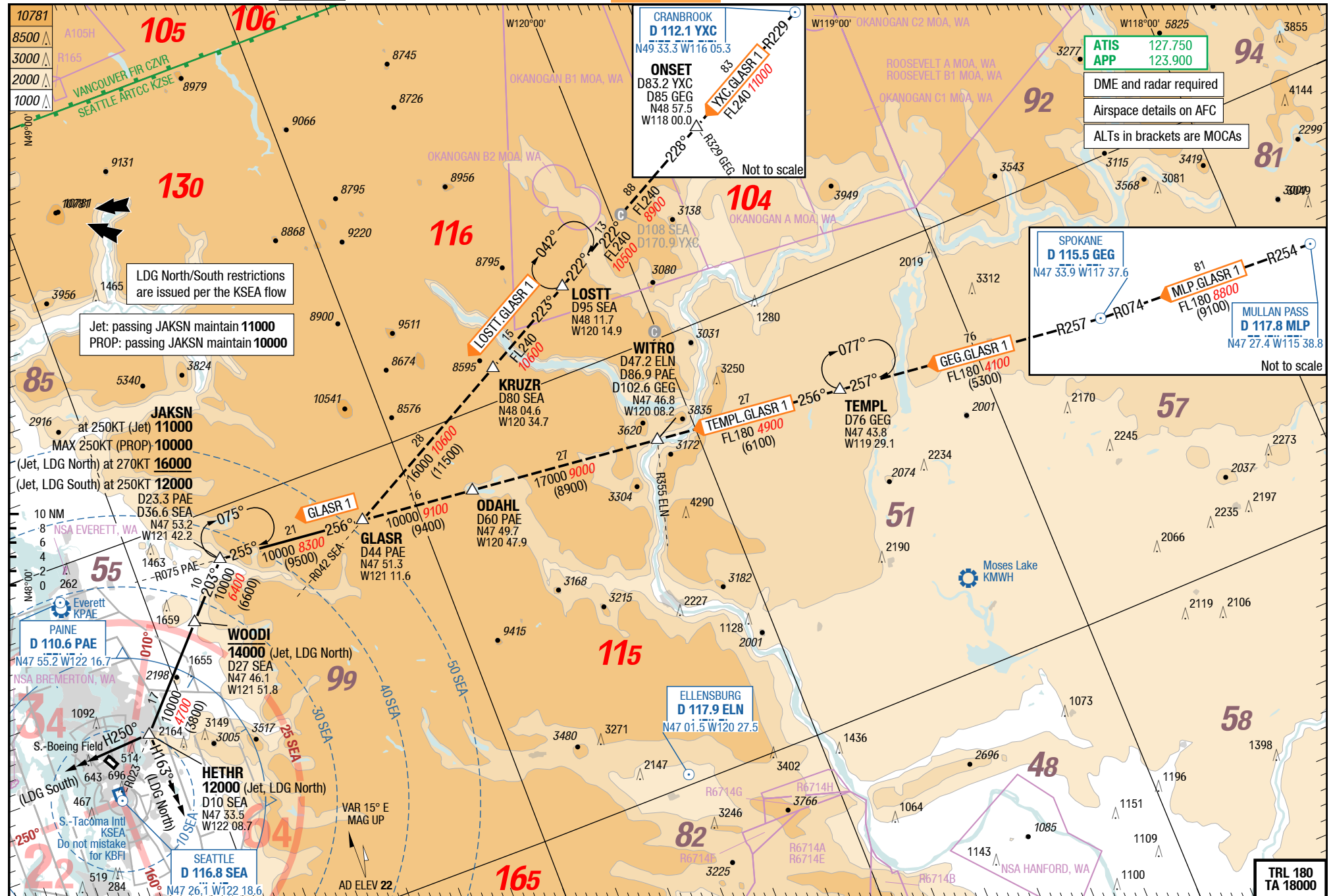
GLASR 1

STAR

STAR

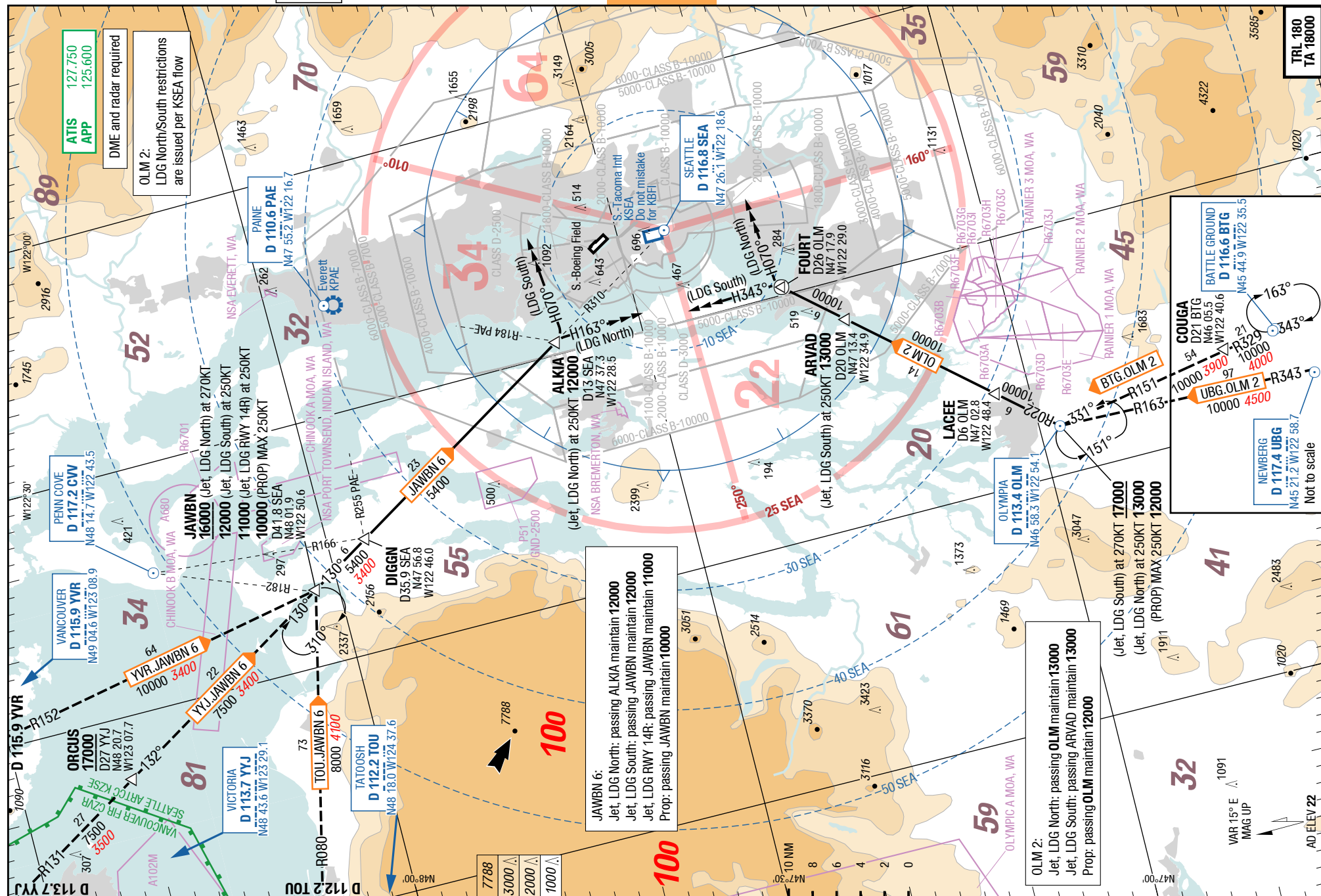
GLASR 1

6-20



Changes: OBST

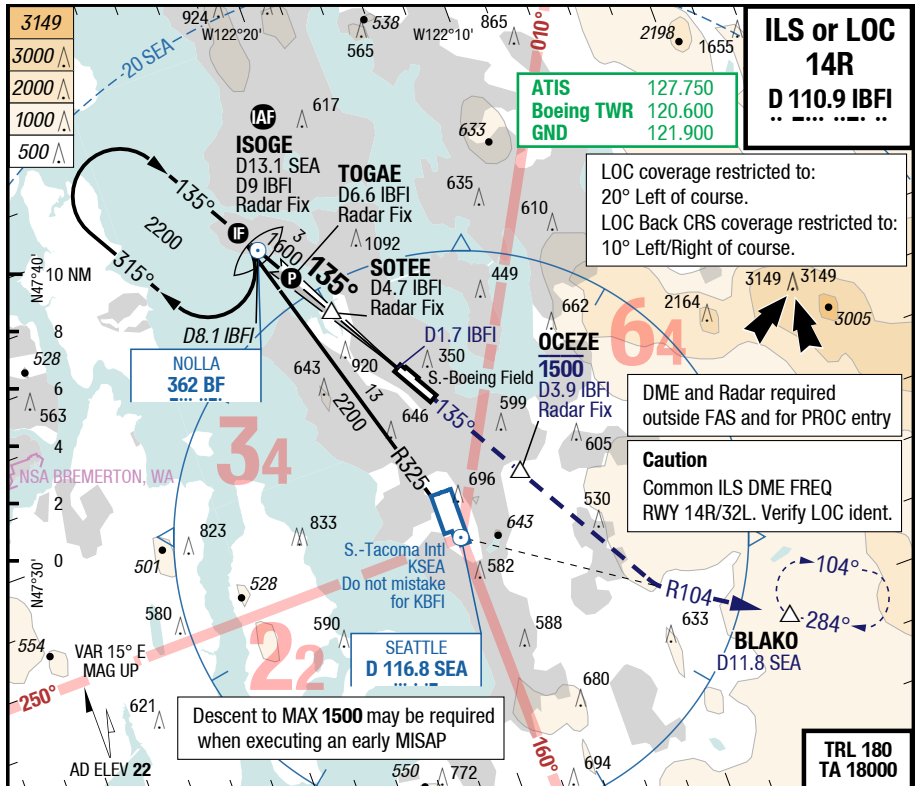
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BFI-KBFI

7-10

ILS or LOC 14R



LOC 3.18°
D 14R

8.1 7 6 5 4
2200 1850 1510 1170 830

ML-SF THR 18 (1hPa) / **TDZ 18** (---%) 0.0%

D9 IBFI ISOGE **D8.4 BF** **D8.1 BF** D6.6 TOGA E D4.7 SOTEE **D1.7** **IBFI**

Caution:
ILS TCH 39ft

BC 135° **IBFI**
cross OCEZ (MAX 1500)
LT intercept R104 SEA
to BLAKO
shuttle climb 6400

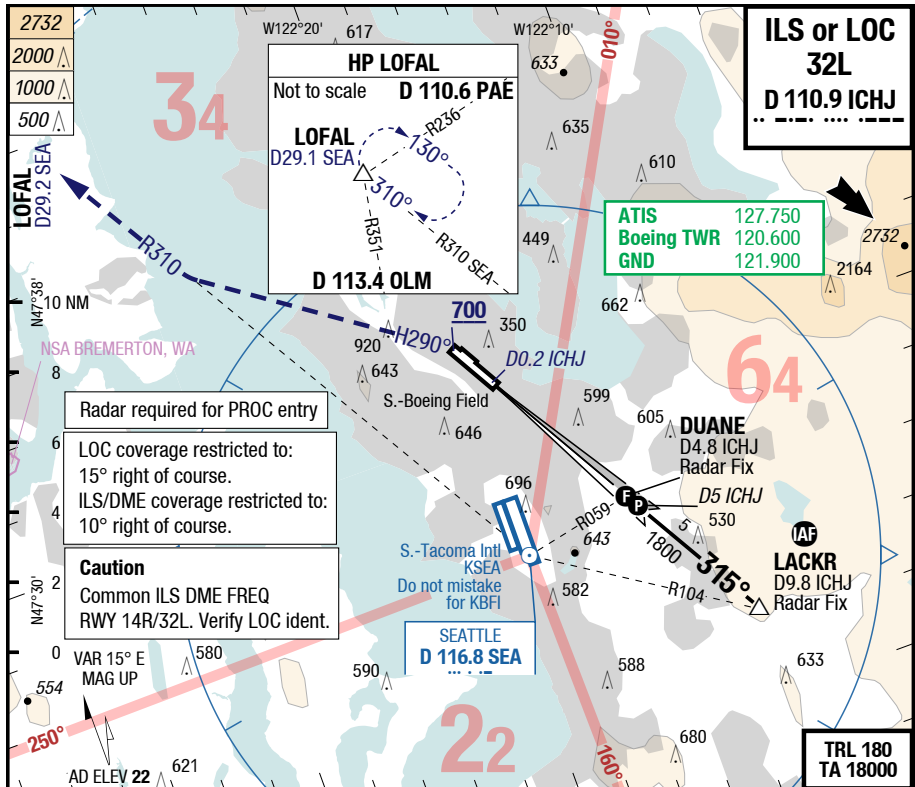
GS	120	140	160
D6.6 IBFI	680	790	900
-MAPT	NA	NA	NA

DIST to THR 5.48 3 0

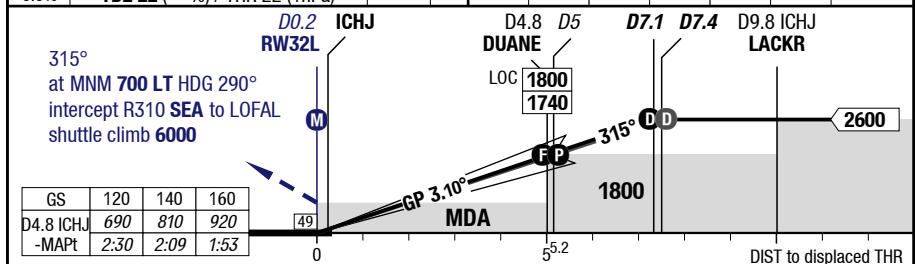
14R **Cat 1** **LOC** **LOC**
1) APL U/S

	ft - ft/SM	290 - 4000R/0.75V	570 - 1.38V	570 - 1.75V		Circling TERPS (2) 3)
C	ft	310	580	580		940 - 2.75V 960
D	ft	310	580	580		940 - 3.0V 960

1) Inop table does not apply
2) SW of RWY 14L/32R only
3) To RWY 32R HJ only

BFI-KBFI**7-20****ILS or LOC 32L**

60 HL	61 G 2780	270	2	3	4	5	6	7.1	LOC 3.25° D ICHJ
0.0%	TDZ 22 (---%) / THR 22 (1hPa)	3.1°	840	1190	1530	1880	2220	2600	



32L	Cat 1	LOC DME	Circling TERPS
C	ft - ft/SM 410 - 1.5V 430	680 - 2.0V 700	840 - 2.5V 860
D	ft - ft/SM 410 - 1.5V 430	680 - 2.25V 700	940 - 3.0V 960

BFI-KBFI

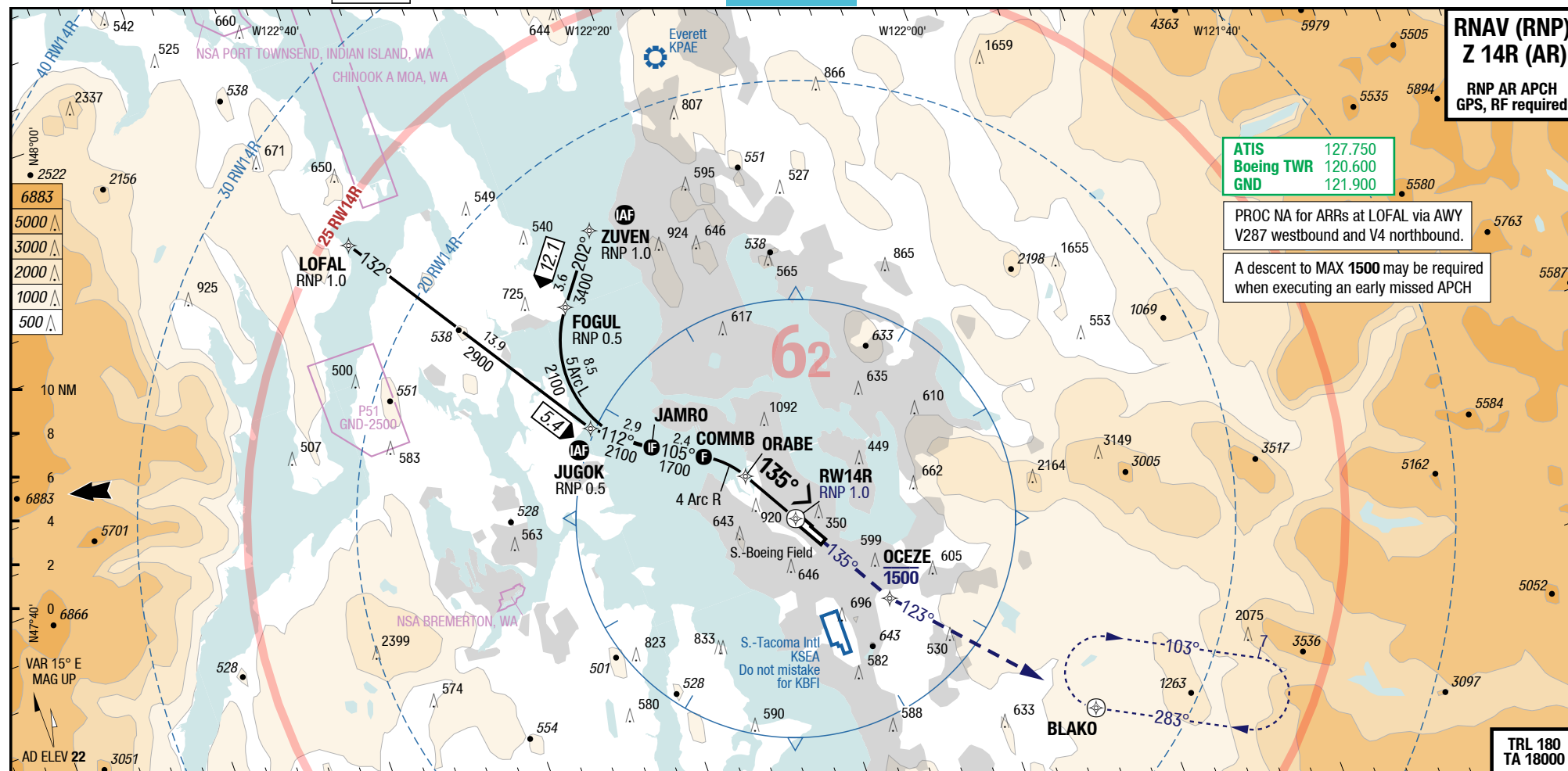
NIL

RNAV (RNP) Z 14R

IAC

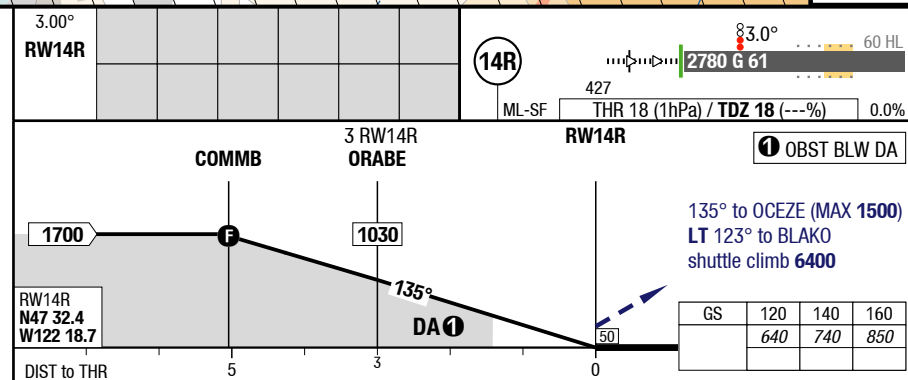
IAC

NIL

RNAV (RNP) Z 14R

TERPS 14R		RNAV RNP 0.15 VNAV 1)	RNAV RNP 0.15 VNAV APL U/S 1)	RNAV RNP 0.30 VNAV 1) 2)		Circling
						TERPS
C	ft - ft/SM ft	530 - 1.5V 550		730 - 2.5V 750		Not published
D	ft - ft/SM ft	530 - 1.5V 550	530 - 1.75V 550	730 - 2.5V 750		Not published

1) Uncompensated BARO VNAV NA below -6°C (22°F) or above 54°C (130°F)
2) INOP table does not apply

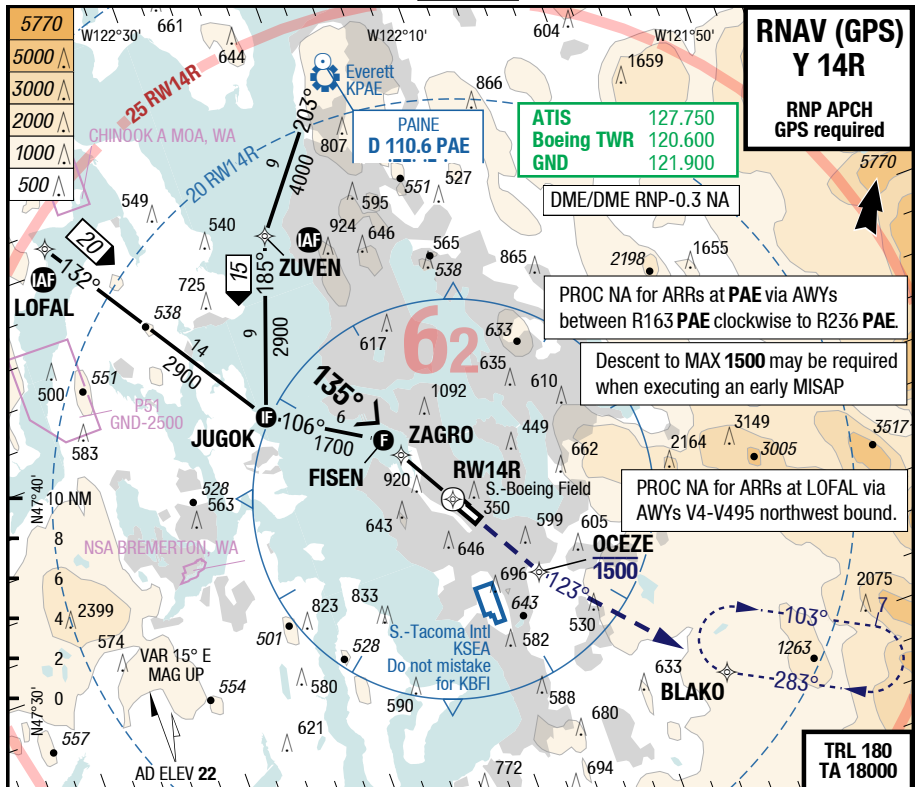


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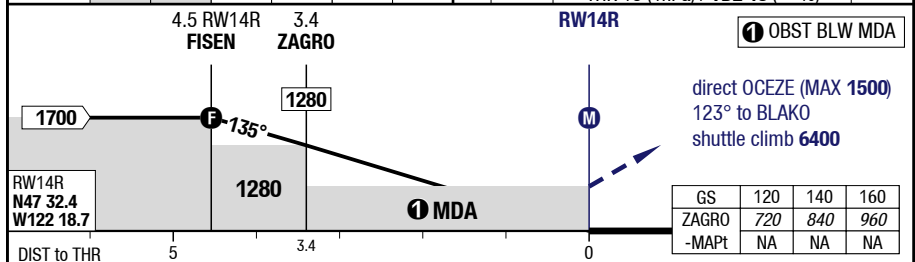
BFI-KBFI

7-50

RNAV (GPS) Y 14R



3.38° RW14R		4.5	4	3	2	<div> <div> <div>14R</div> <div>ML-SF</div> </div> <div> <div>427</div> <div>THR 18 (1hPa) / TDZ 18 (---%)</div> </div> <div> <div>8.30°</div> <div>2780 G 61</div> </div> <div> <div>60 HL</div> <div>0.0%</div> </div> </div>
		1700	1500	1140	790	



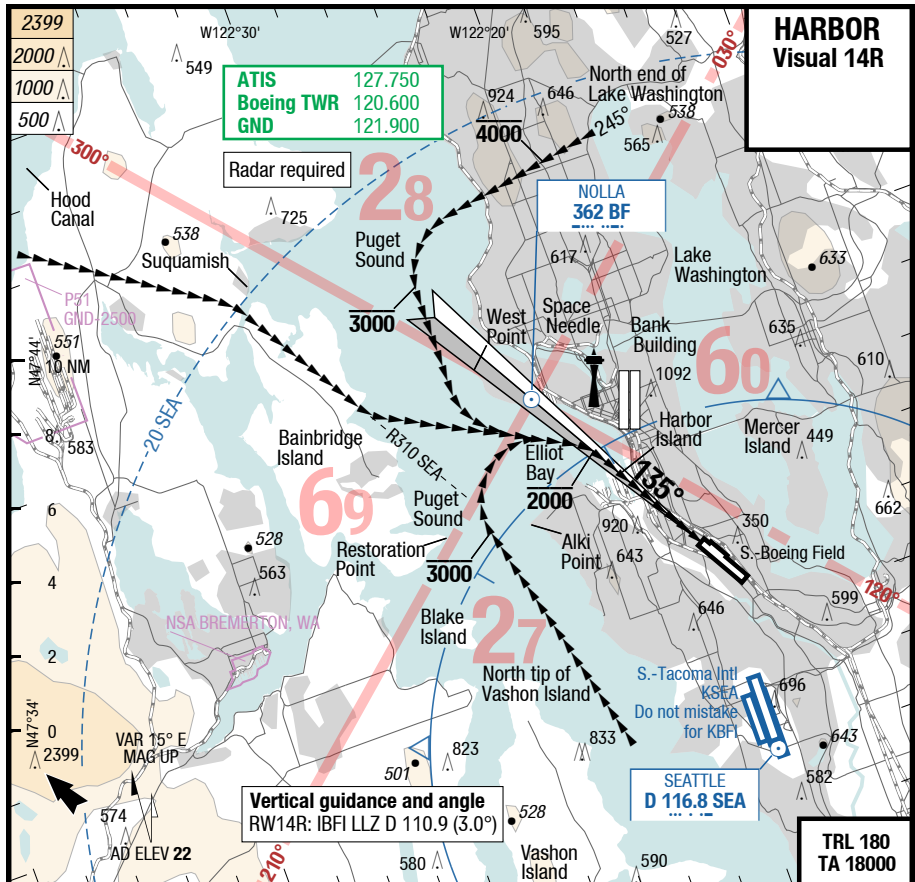
14R		RNAV GPS LNAV	RNAV GPS LNAV APL U/S				Circling ^{1) 2)}
C	ft - ft/SM ft	670 - 1.75V 680	670 - 2.0V 680				New TERPS 940 - 2.75V 960
D	ft - ft/SM ft	670 - 1.75V 680	670 - 2.0V 680				940 - 3.0V 960

1) SW of RWY 14L/32R only	
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2) To RWY 32R HJ only

Changes: APL, FREQ, OBST, MISAP text

AMDT 1

BFI-KBFI**7-70****HARBOR Visual 14R**

VISUAL		14R				Circling TERPS	
C	ft - ft/SM ft	C 3100 - 4.0V				Not published	
D	ft - ft/SM ft	C 3100 - 4.0V				Not published	