

(CBAIN1.CBAIN) 23054

AL-384 (FAA)

BOEING FLD/KING COUNTY INTL (BFI)
SEATTLE, WASHINGTON

CBAIN ONE DEPARTURE (RNAV)

**TOP ALTITUDE:
2100**

ALPSE

ATIS
127.75
CLNC DEL
132.4
GND CON
121.9
BOEING TOWER
120.6 257.8
SEATTLE DEP CON
120.4 269.125

ARRIE

LOFAL

PAINÉ
PAE

BANGR

CBAIN

KURRT

GNEXX
1600

TAKEOFF MINIMUMS

Rwys 14L/R, 32R: NA - ATC.
Rwy 32L: Standard with minimum
climb of 425' per NM to 1400.

NW-1, 22 FEB 2024 to 21 MAR 2024

ZADON

HAROB

VAMPS

NORMY

ELMAA

OLYMPIA
OLM

BUWZO

ALDER

- NOTE: RNAV 1.
- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: ALDER departures expect direct/vectors to ALDER/V495/J1-189
- NOTE: ALPSE departures expect direct/vectors to ALPSE
- NOTE: ARRIE departures expect direct/vectors to ARRIE/J523
- NOTE: BANGR departures expect direct/vectors to BANGR
- NOTE: BUWZO departures expect direct/vectors to BUWZO
- NOTE: ELMAA departures expect direct/vectors to ELMAA/J70
- NOTE: HAROB departures expect direct/vectors to HAROB/Q5
- NOTE: LOFAL departures expect direct/vectors to LOFAL/V4-495
- NOTE: NORMY departures expect direct/vectors to NORMY/V120/J12-70-90
- NOTE: OLM departures expect direct/vectors to OLM
- NOTE: PAE departures expect direct/vectors to PAE
- NOTE: SUMMA departures expect direct/vectors to SUMMA/J5/J54/Q9
- NOTE: VAMPS departures expect direct/vectors to VAMPS/V2-298
- NOTE: ZADON departures expect direct/vectors to ZADON

NOTE: Chart not to scale.

NW-1, 22 FEB 2024 to 21 MAR 2024

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 32L: Climb heading 315° to 540, then direct to cross GNEXX at or below 1600, then on track 315° to KURRT, then on track 295° to CBAIN, then on track 295° for vectors to assigned route/fix, maintain 2100 or as assigned by ATC.
Expect clearance to filed altitude/flight level within three minutes after departure.

CBAIN ONE DEPARTURE (RNAV)

(CBAIN1.CBAIN) 12OCT17

SEATTLE, WASHINGTON
BOEING FLD/KING COUNTY INTL (BFI)

KENT EIGHT DEPARTURE

AL-384 (FAA)

BOEING FLD/KING COUNTY INTL (BFI)
SEATTLE, WASHINGTON

SEATTLE DEP CON
119.2 284.7
ATIS
127.75
CLNC DEL
132.4
GND CON
121.9
BOEING TOWER
120.6 257.8

VANCOUVER
115.9 YVR
Chan 106

WHATCOM
113.0 HUH
Chan 77

**TOP ALTITUDE:
2000**

CRANBROOK
112.1 YXC
Chan 58

VICTORIA
113.7 YYJ
Chan 84

PAINE
110.6 PAE
Chan 43

LOCALIZER 110.9
I-BFI
Chan 46

WENATCHEE
114.35 EAT
Chan 90(Y)

SEATTLE
116.8 SEA
Chan 115

MOSES LAKE
115.0 MWH
Chan 97

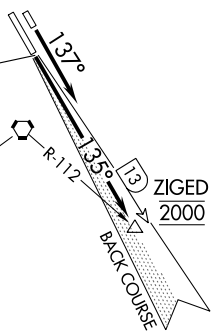
HOQUIAM
117.7 HQM
Chan 124

OLYMPIA
113.4 OLM
Chan 81

ELLENSBURG
117.9 ELN
Chan 126

BATTLE GROUND
116.6 BTG
Chan 113

YAKIMA
116.0 YKM
Chan 107



NW-1, 22 FEB 2024 to 21 MAR 2024

NW-1, 22 FEB 2024 to 21 MAR 2024

TAKEOFF MINIMUMS

Rwys 32L/R: NA-ATC.

Rwy 14L: Standard with minimum climb of 708' per NM to 500 or 600-3 with minimum climb of 260' per NM to 700.

Rwy 14R: Standard with minimum climb of 507' per NM to 700 or 600-3 with minimum climb of 260' per NM to 700.

NOTE: RADAR required.

NOTE: Chart not to scale.

(CONTINUED ON FOLLOWING PAGE)

KENT EIGHT DEPARTURE

(KENT8.ZIGED) 12OCT17

SEATTLE, WASHINGTON
BOEING FLD/KING COUNTY INTL (BFI)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 14L: Climb heading 137° and I-BFI SE course to cross ZIGED INT/I-BFI 13 DME at 2000 or ATC assigned altitude for RADAR vectors to assigned route/fix. Expect clearance to filed altitude within 3 minutes after departure.

TAKEOFF RUNWAY 14R: Climb heading 135° and I-BFI SE course to cross ZIGED INT/I-BFI 13 DME at 2000 or ATC assigned altitude for RADAR vectors to assigned route/fix. Expect clearance to filed altitude within 3 minutes after departure.

NW-1, 22 FEB 2024 to 21 MAR 2024

NW-1, 22 FEB 2024 to 21 MAR 2024

NEEDLE ONE DEPARTURE

AL-384 (FAA)

BOEING FLD/KING COUNTY INTL (BFI)
SEATTLE, WASHINGTON

SEATTLE DEP CON
120.4 269.125
ATIS
127.75
CLNC DEL
132.4
GND CON
121.9
BOEING TOWER
120.6 257.8

**TOP ALTITUDE:
2100**

VANCOUVER
115.9 YVR
Chan 106

WHATCOM
113.0 HUH
Chan 77

CRANBROOK
112.1 YXC
Chan 58

VICTORIA
113.7 YYJ
Chan 84

PAINE
110.6 PAE
Chan 43



SEATTLE
116.8 SEA
Chan 115

WENATCHEE
114.35 EAT
Chan 90(Y)

MOSES LAKE
115.0 MWH
Chan 97

HOQUIAM
117.7 HQM
Chan 124

OLYMPIA
113.4 OLM
Chan 81

ELLENSBURG
117.9 ELN
Chan 126

YAKIMA
116.0 YKM
Chan 107

BATTLE GROUND
116.6 BTG
Chan 113

TAKEOFF MINIMUMS

Rwys 14L/R: NA - ATC.

Rwy 32L: Standard with minimum climb of 425' per NM to 1400 or 400-1 $\frac{1}{8}$ with minimum climb of 240' per NM to 1400.

Rwy 32R: Standard with minimum climb of 345' per NM to 1400 or 400-2 with minimum climb of 240' per NM to 1400.

NOTE: Rwys 32L/R, no right turns authorized until leaving 1400'.

NOTE: RADAR required.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 32L/R: Climb heading 315°, maintain 2100 or ATC assigned altitude, for RADAR vectors to assigned route/fix, expect clearance to filed altitude within 3 minutes after departure.

NEEDLE ONE DEPARTURE

NW-1, 22 FEB 2024 to 21 MAR 2024

NW-1, 22 FEB 2024 to 21 MAR 2024

(NRVNA1.NRVNA) 23054

AL-384 (FAA)

BOEING FLD/KING COUNTY INTL (BFI)
SEATTLE, WASHINGTON

NRVNA ONE DEPARTURE (RNAV)

**TOP ALTITUDE:
2000**

ALPSE

ATIS
127.75
CLNC DEL
132.4
GND CON
121.9
BOEING TOWER
120.6 257.8
SEATTLE DEP CON
119.2 284.7
ARRIE

PAINE
PAE

LOFAL

BANGR

TAKEOFF MINIMUMS

Rwys 14L, 32L/R: NA - ATC.
Rwy 14R: Standard with minimum
climb of 507' per NM to 700.

ZADON

NORMY

NRVNA

VAMPS

HAROB

ELMAA

OLYMPIA
OLM

BUWZO

ALDER

SUMMA

- NOTE: RNAV 1.
- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: ALDER departures expect direct/vectors to ALDER/V495/J1-189
- NOTE: ALPSE departures expect direct/vectors to ALPSE
- NOTE: ARRIE departures expect direct/vectors to ARRIE/J523
- NOTE: BANGR departures expect direct/vectors to BANGR
- NOTE: BUWZO departures expect direct/vectors to BUWZO
- NOTE: ELMAA departures expect direct/vectors to ELMAA/J70
- NOTE: HAROB departures expect direct/vectors to HAROB/Q5
- NOTE: LOFAL departures expect direct/vectors to LOFAL/V4-495
- NOTE: NORMY departures expect direct/vectors to NORMY/V120/J12-70-90
- NOTE: OLM departures expect direct/vectors to OLM
- NOTE: PAE departures expect direct/vectors to PAE
- NOTE: SUMMA departures expect direct/vectors to SUMMA/J5/J54/Q9
- NOTE: VAMPS departures expect direct/vectors to VAMPS/V2-298
- NOTE: ZADON departures expect direct/vectors to ZADON

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 14R: Climb heading 135° to 700, then direct NRVNA, then on track 135° for RADAR vectors to assigned route/fix, maintain 2000 or as assigned by ATC.
Expect clearance to filed altitude/flight level within three minutes after departure.

NRVNA ONE DEPARTURE (RNAV)

(NRVNA1.NRVNA) 12OCT17

SEATTLE, WASHINGTON
BOEING FLD/KING COUNTY INTL (BFI)

NW-1, 22 FEB 2024 to 21 MAR 2024

NW-1, 22 FEB 2024 to 21 MAR 2024