

GENERAL

Operational Hours

ATS Hours: TWR H24

AD OPS Hours: Attended continuously

Airport Information

RFF: FAA Index B / CAT 6. 1HR PPR for Non-SKED OPS with more than 9 PAX seats.
Between 0600-0900± not AVBL except 1HR PPR.

Fuel: JET A

PCN: RWY 01/19: 85/F/C/X/T
RWX 05/23: 133/F/C/X/T

Operation

TWY Restriction

TWY E east of TWY B MAX wingspan 36m / 118ft.

Warnings

ACFT on jet tech RAMP and north hangar not visible from TWR.

IGGZ DME unusable: beyond 3° right of course.

Birds and deer in vicinity of AD.

ARRIVAL

Speed

MAX IAS 250KT below 10000ft.

Communication

COM Failure: See CRAR.

Arrival Procedure

Land and Hold Short Operation (LAHSO)

These OPS include LDG and hold short of an intersection RWY/TWY or other predetermined points on the RWY other than RWY or TWY marked with (*).

LDG RWY	Hold Short Point (HSP)	Distance
RWY 05	RWY 01/19*	1744m / 5723ft
RWY 19	RWY 05/23*	945m / 3100ft

DEPARTURE

Take-off Minima

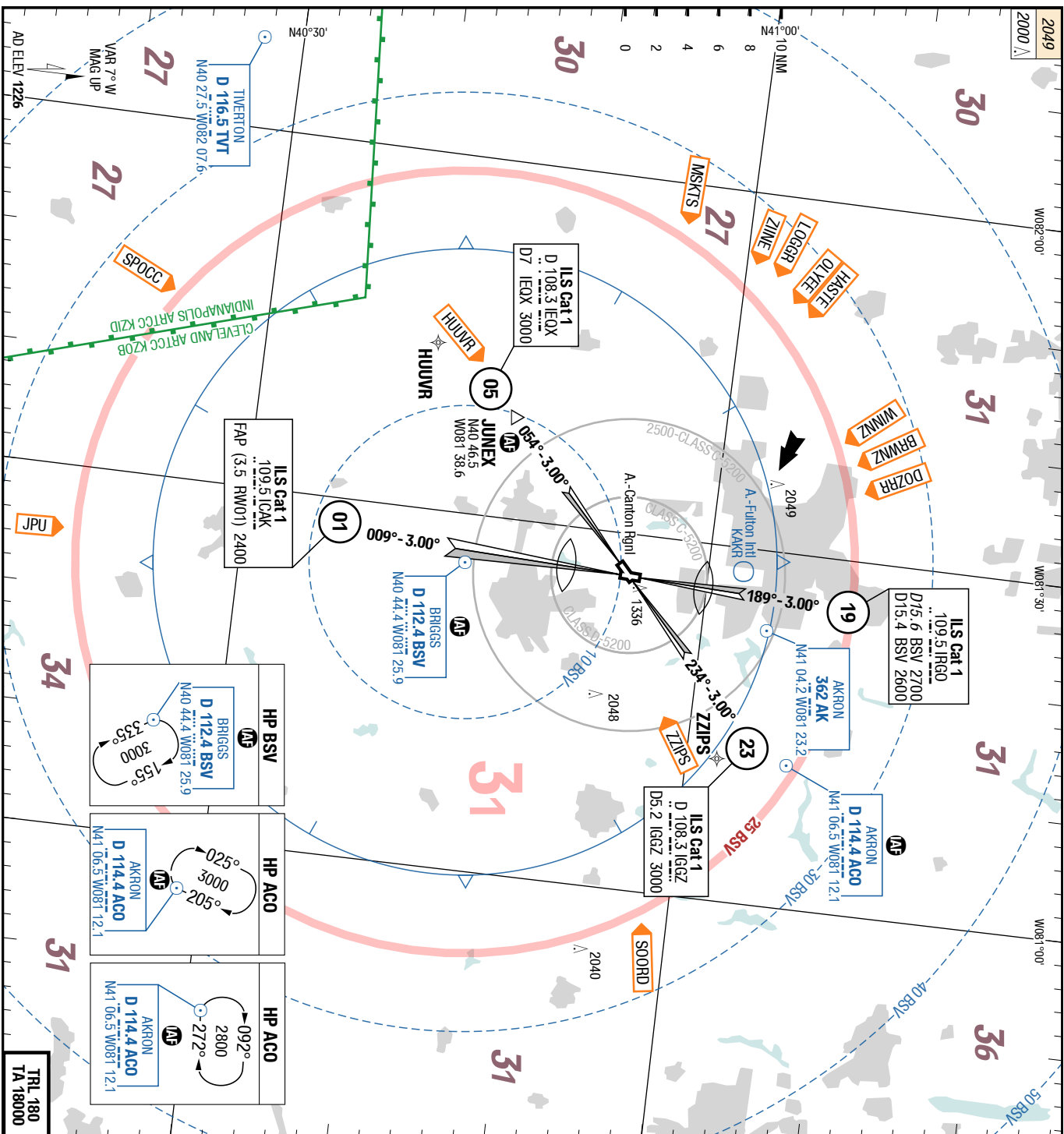
RWY		01/19, 05/23	
1+2 ENG	ft - ft/SM	0 - 5000R/1.0V	-
3+4 ENG		0 - 2400R/0.5V	-

Speed

MAX IAS 250KT below 10000ft.

Communication

COM Failure: See CRAR.



ATIS	121.050	ASOS	
APP/DEP	125.500	007°-186°	118,600 187°-006°
	128.050	1100-05004	
Cleveland Center			134,900 0500-11004
TWR	134.750		
UNICOM	122.950		
GND	121.700		
DLV	132.050		

Landing RWY system:

(a) 1D NMR spectra

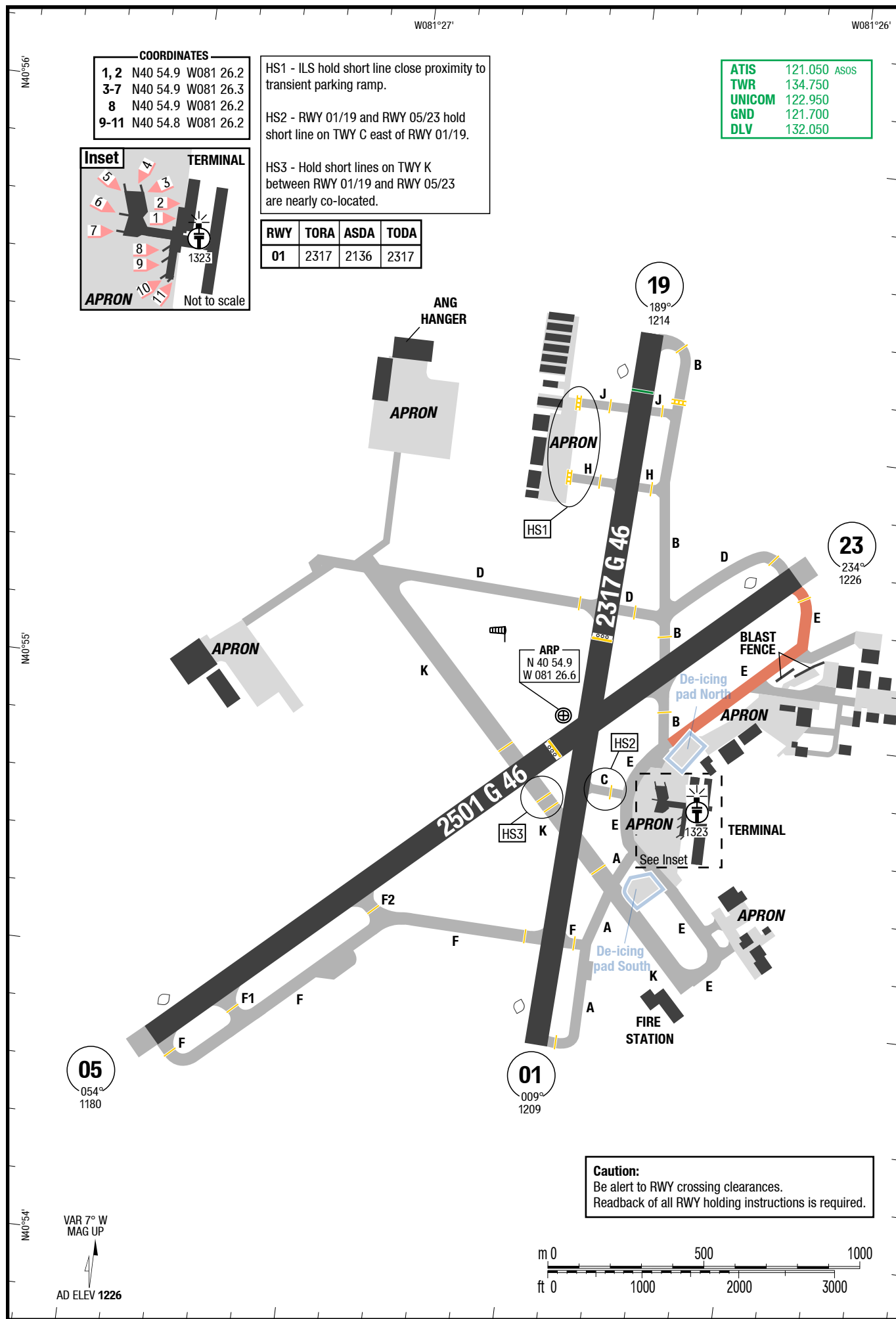
^1H NMR (ppm): 7.2-7.4 (m, 4H), 6.5-6.7 (m, 4H), 5.1-5.3 (m, 2H), 4.1-4.3 (m, 2H), 3.0 (s, 3H), 2.5 (s, 3H), 1.8 (s, 3H), 0.1 (s, 3H).

^{13}C NMR (ppm): 145.0, 144.0, 143.0, 142.0, 141.0, 140.0, 139.0, 138.0, 137.0, 136.0, 135.0, 134.0, 133.0, 132.0, 131.0, 130.0, 129.0, 128.0, 127.0, 126.0, 125.0, 124.0, 123.0, 122.0, 121.0, 120.0, 119.0, 118.0, 117.0, 116.0, 115.0, 114.0, 113.0, 112.0, 111.0, 110.0, 109.0, 108.0, 107.0, 106.0, 105.0, 104.0, 103.0, 102.0, 101.0, 100.0, 99.0, 98.0, 97.0, 96.0, 95.0, 94.0, 93.0, 92.0, 91.0, 90.0, 89.0, 88.0, 87.0, 86.0, 85.0, 84.0, 83.0, 82.0, 81.0, 80.0, 79.0, 78.0, 77.0, 76.0, 75.0, 74.0, 73.0, 72.0, 71.0, 70.0, 69.0, 68.0, 67.0, 66.0, 65.0, 64.0, 63.0, 62.0, 61.0, 60.0, 59.0, 58.0, 57.0, 56.0, 55.0, 54.0, 53.0, 52.0, 51.0, 50.0, 49.0, 48.0, 47.0, 46.0, 45.0, 44.0, 43.0, 42.0, 41.0, 40.0, 39.0, 38.0, 37.0, 36.0, 35.0, 34.0, 33.0, 32.0, 31.0, 30.0, 29.0, 28.0, 27.0, 26.0, 25.0, 24.0, 23.0, 22.0, 21.0, 20.0, 19.0, 18.0, 17.0, 16.0, 15.0, 14.0, 13.0, 12.0, 11.0, 10.0, 9.0, 8.0, 7.0, 6.0, 5.0, 4.0, 3.0, 2.0, 1.0, 0.0.

(b) 2D NMR spectra

2D ^1H - ^{13}C NMR (ppm): The 2D spectrum shows correlations between the ^1H and ^{13}C peaks. The ^1H axis ranges from 0 to 10 ppm, and the ^{13}C axis ranges from 0 to 150 ppm. The 2D spectrum shows correlations between peaks in the 1D spectra.

2D ^1H - ^1H NMR (ppm): The 2D spectrum shows correlations between the ^1H peaks. The ^1H axis ranges from 0 to 10 ppm. The 2D spectrum shows correlations between peaks in the 1D spectra.



Obstacle Departure	
RWY	Notes
01	Multiple trees beginning 2756ft from DER, 447ft left of centerline, up to 116ft AGL/1316ft MSL. Powerlines beginning 3215ft from DER, left and right of centerline, up to 80ft AGL/1289ft MSL.
05	Multiple trees beginning 840ft from DER, 550ft right of centerline, up to 116ft AGL/1336ft MSL. Tree 577ft from DER, 561ft left of centerline, 46ft AGL/1256ft MSL.
19	Trees beginning 1998ft from DER, 817ft left of centerline, up to 100ft AGL/1290ft MSL.

06-SEP-2018

CAK-KCAK

United States **Akron** Akron-Canton Rgnl

HUUVR 1 RNAV

6-10

BRWNZ 1 RNAV

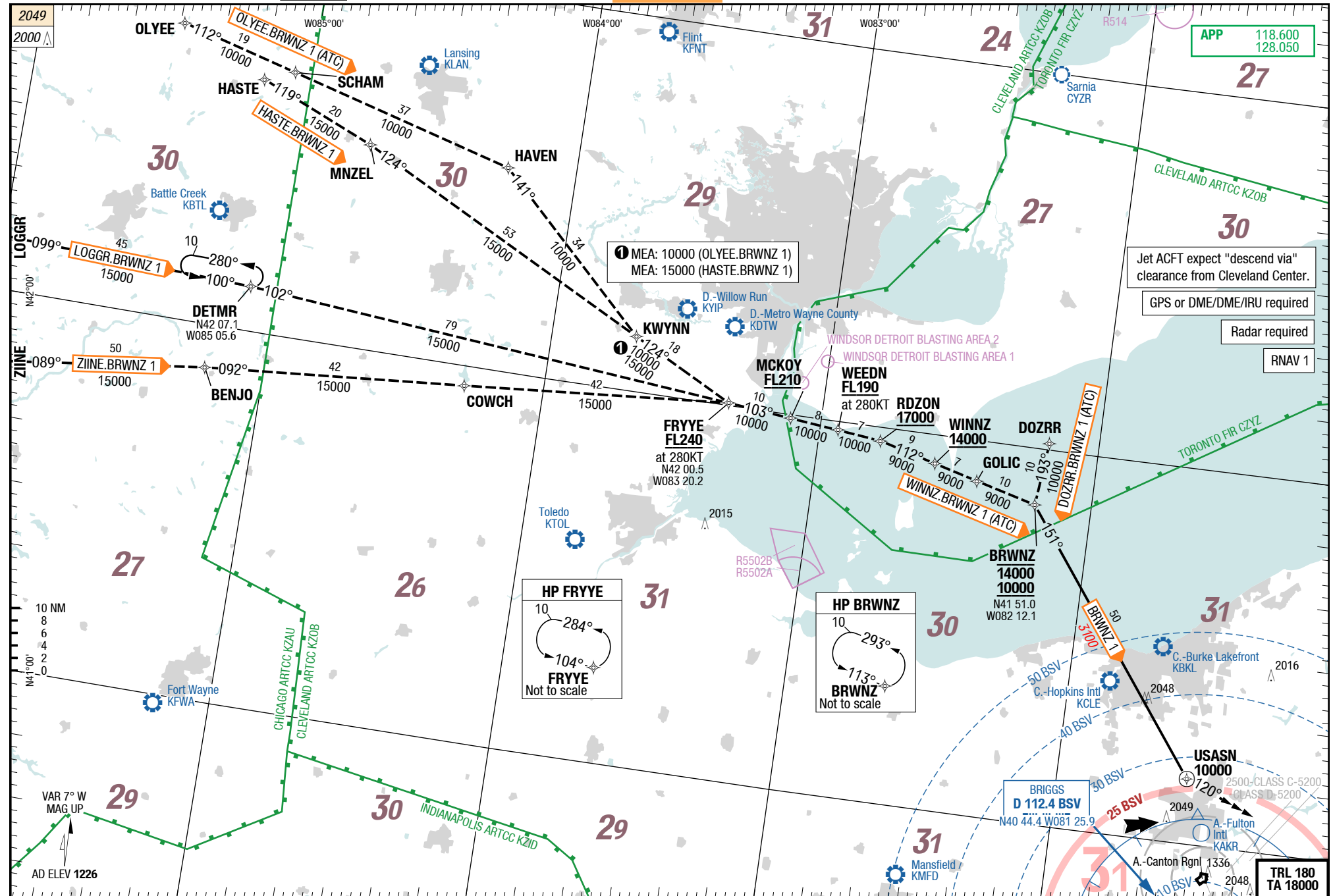
STAR

STAR

Akron-Canton Rgnl **Akron** United States

HUUVR 1 RNAV

BRWNZ 1 RNAV



Changes: new

Effective 13-SEP-2018

06-SEP-2018

CAK-KCAK

United States Akron Akron-Canton Rgnl

6-20

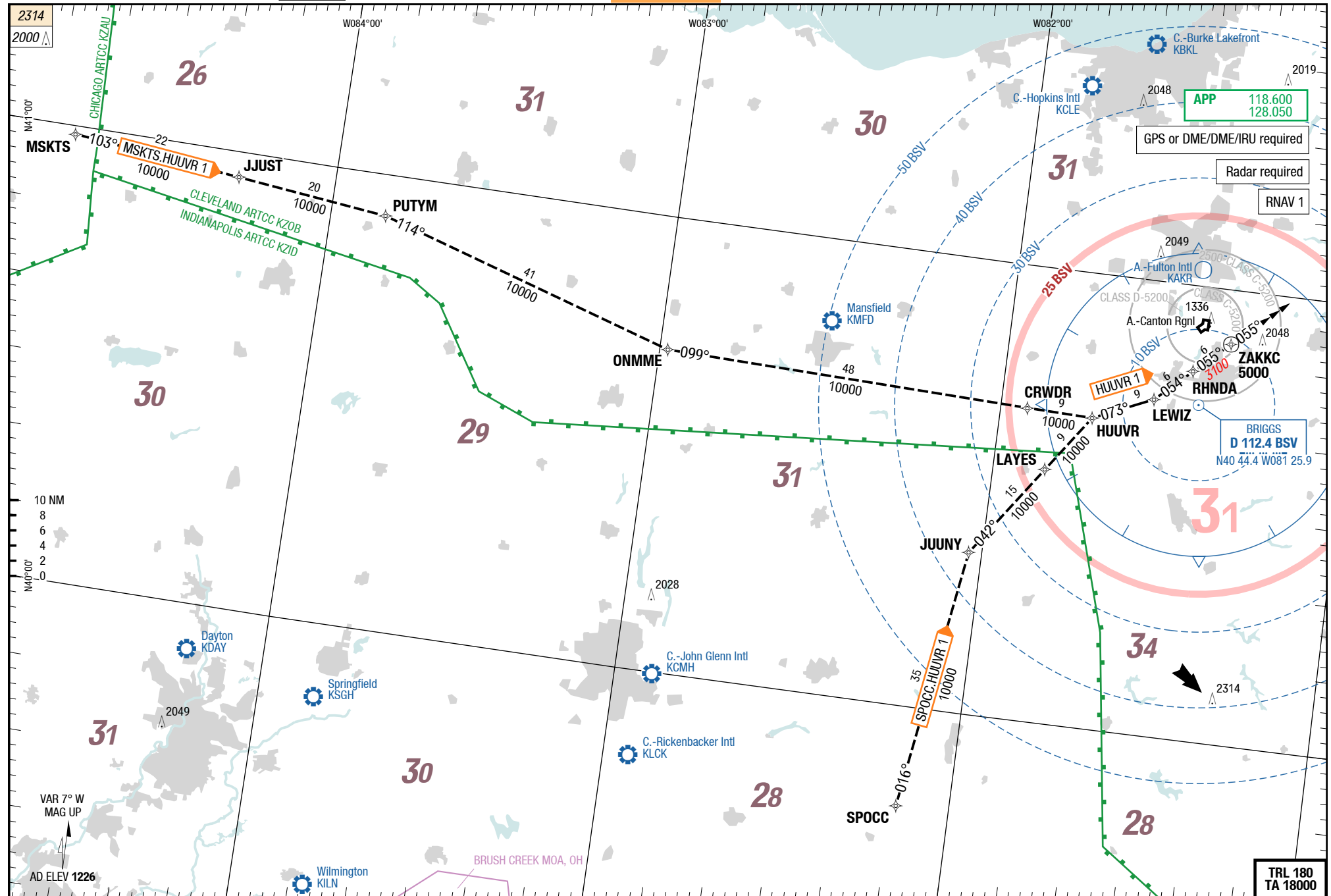
HUUVR 1 RNAV

STAR

STAR

AKRON-CANTON RGNL AKRON UNITED STATES

HUUVR 1 RNAV



06-SEP-2018

United States **Akron** Akron-Canton Rgnl

STAR

STAR

Akron-Canton Rgnl **Akron** United States

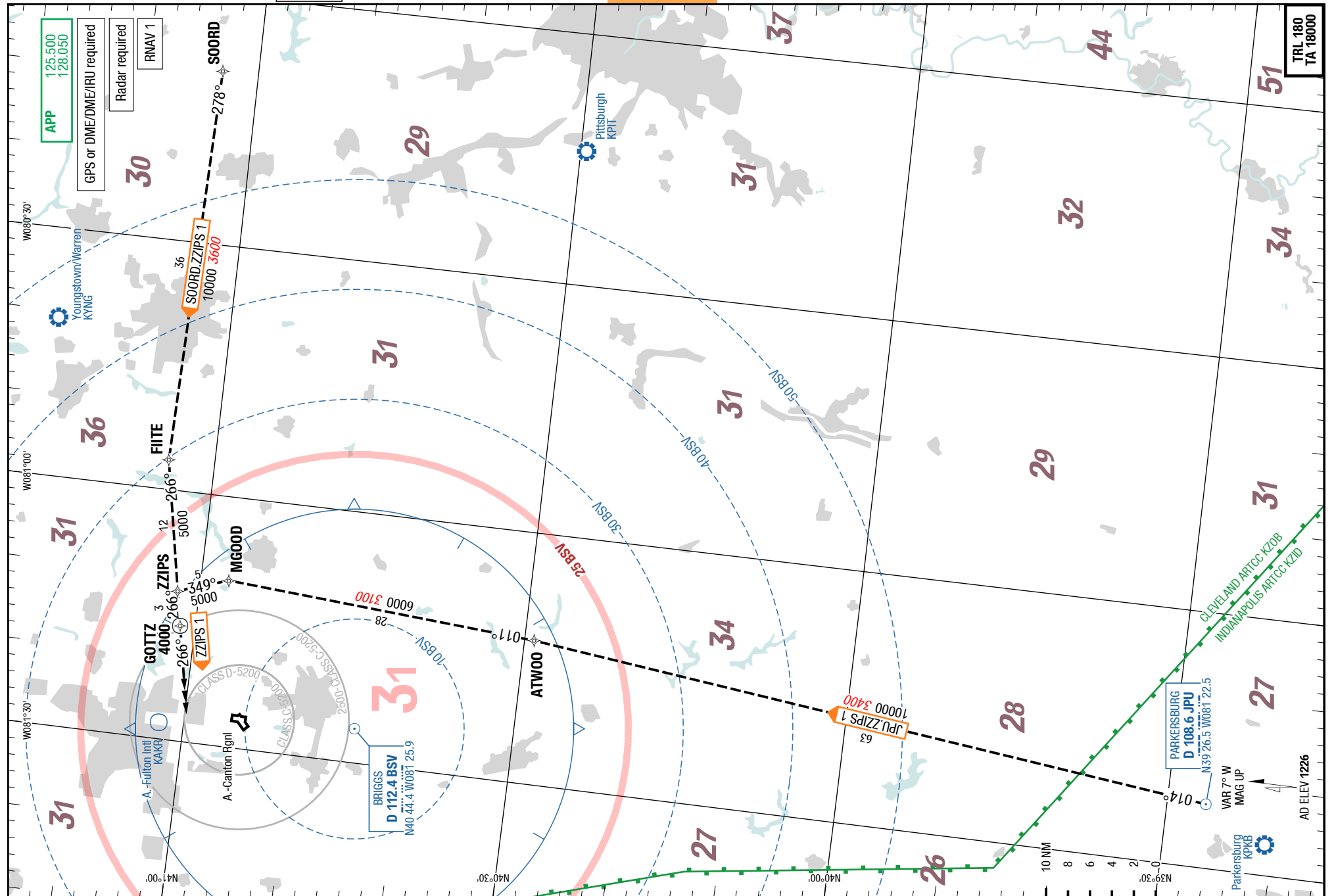
NIL

ZZIPS 1 RNAV

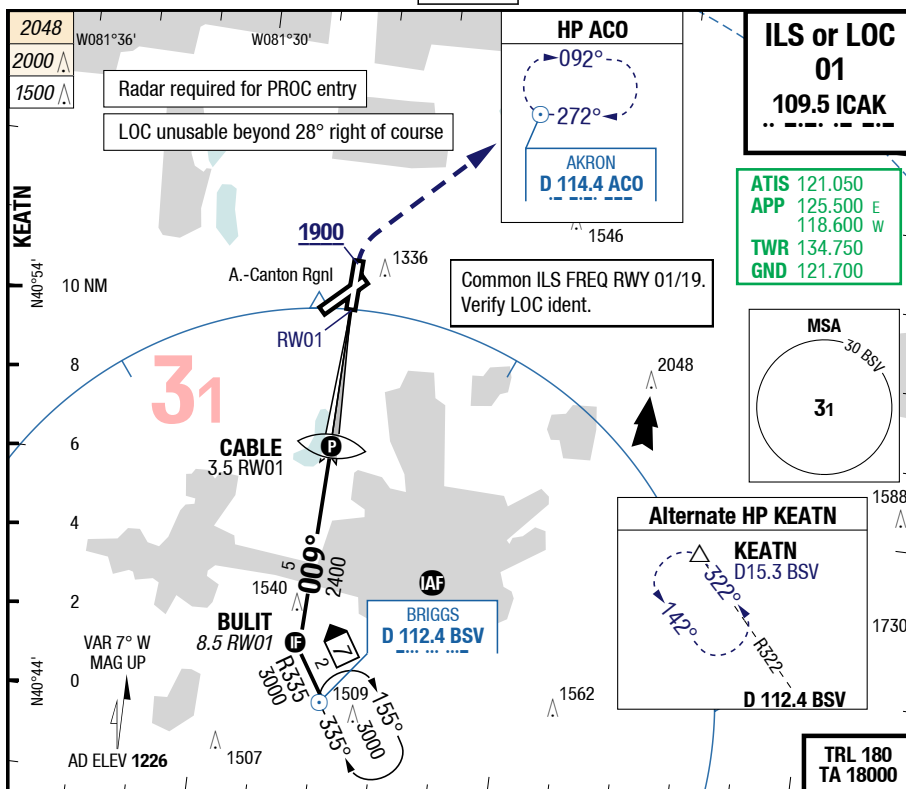
CAK-KCAK

6-30

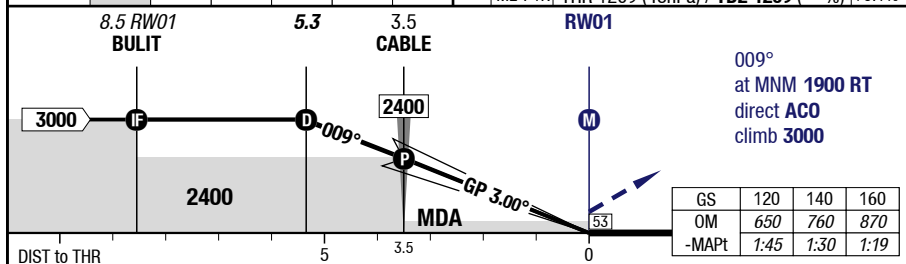
ZZIPS 1 RNAV



Changes: Page Number

CAK-KCAK**7-10****ILS or LOC 01**

LOC 3.07°	5.3	5	4	3	2	01	ML-P1R	THR 1209 (43hPa) / TDZ 1209 (---%) +0.1%
RW01	3000	2890	2570	2240	1910			

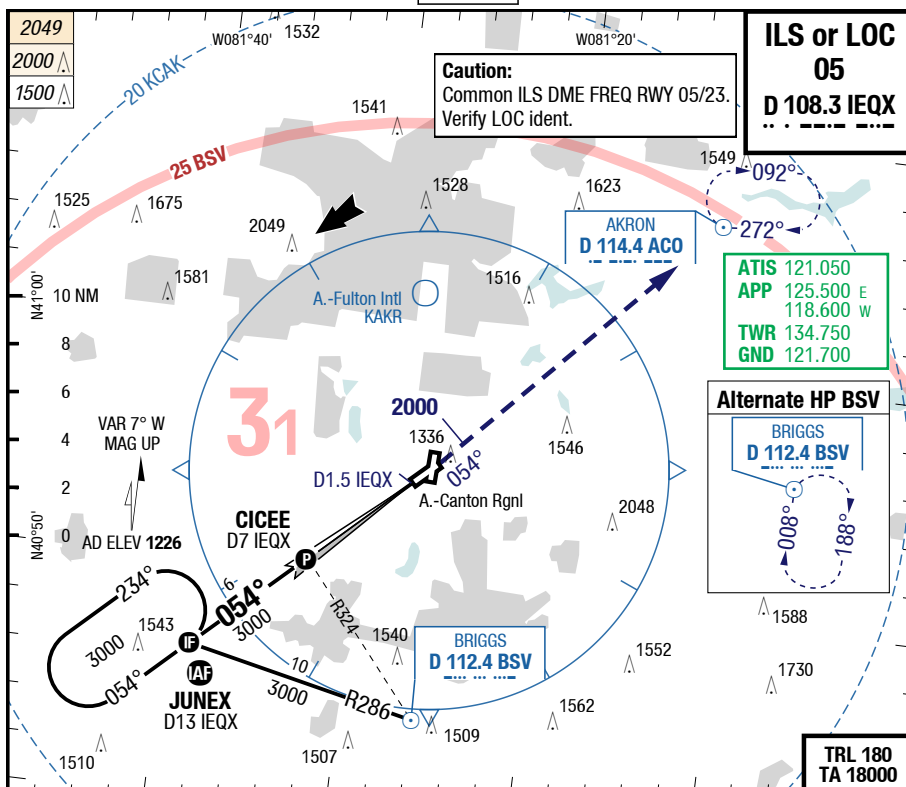


01	Cat 1 1)	LOC	SRA 2)	Circling TERPS
C	ft - ft/SM ft 200 - 1800R/0.5V 1410	400 - 3500R/0.63V 1600	400 - 3500R/0.63V 1600	600 - 1.5V 1830
D	ft - ft/SM ft 200 - 1800R/0.5V 1410	400 - 4000R/0.75V 1600	400 - 5000R/1.0V 1600	700 - 2.25V 1930

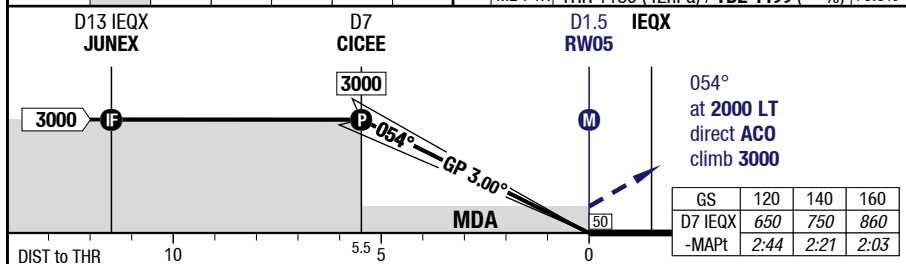
1) FD or AP or HGS to DA required, else use RVR 2400ft or VIS 0.5SM

2) PROC NA when Akron-Canton APCH control CLSD

7-20

ILS or LOC 05

LOC 3.04°	7	6	5	4	3	<div> <div>05</div> <div> <div> <div>3.0°</div> <div>2501 G 46</div> <div>60 HL</div> </div> <div>ML-P1R THR 1180 (42hPa) / TDZ 1199 (---) +0.6%</div> </div> </div>
D IEQX	3000	2690	2360	2040	1720	



05		Cat 1	LOC	SRA			Circling
<i>TERPS</i>		1)		2)			TERPS
C	ft - ft/SM ft	200 - 1800R/0.5V 1400	450 - 4500R/0.88V 1640	430 - 0.88V 1620			600 - 1.5V 1830
D	ft - ft/SM ft	200 - 1800R/0.5V 1400	450 - 4500R/0.88V 1640	430 - 1.0V 1620			700 - 2.25V 1930

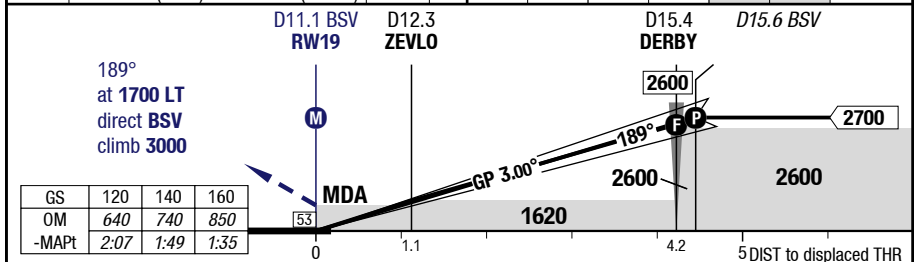
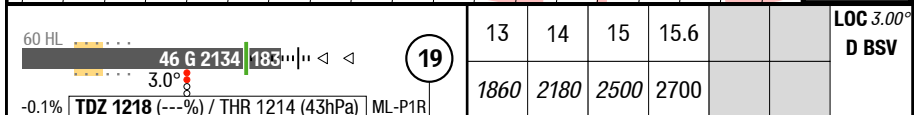
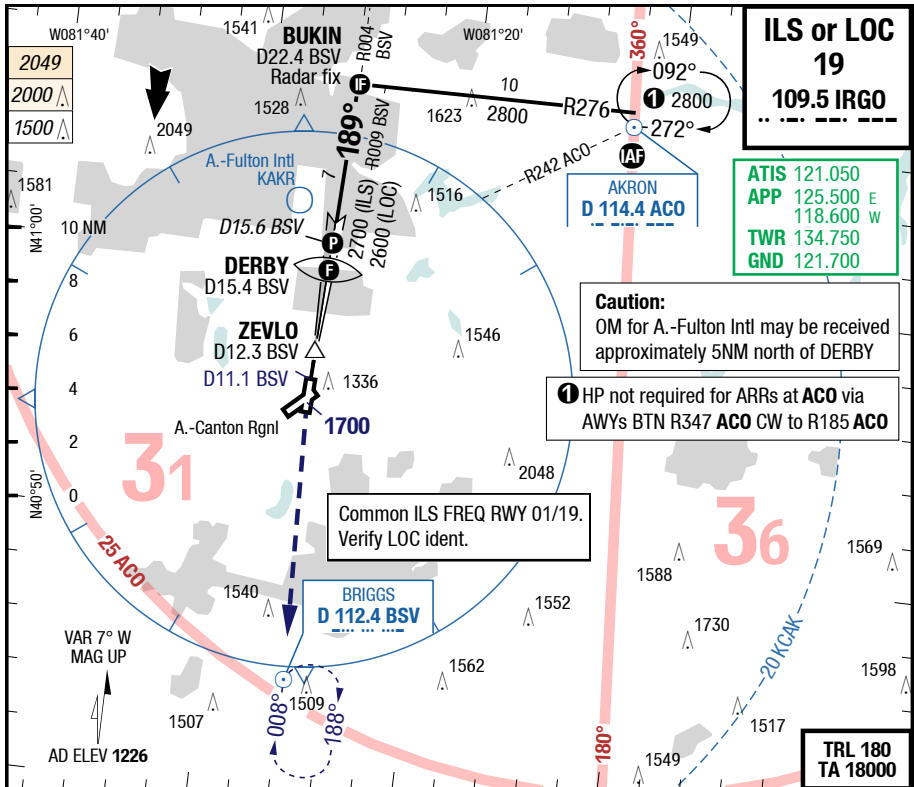
1) FD or AP or HGS to DA required, else use RVR 2400ft or VIS 0.5SM

2) PROC NA when Akron-Canton APCH control CLSD

CAK-KCAK

7-30

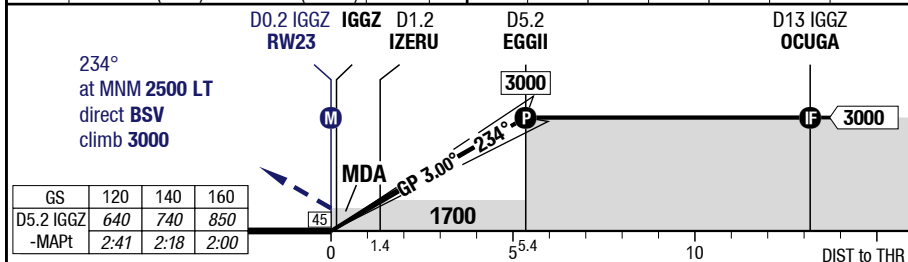
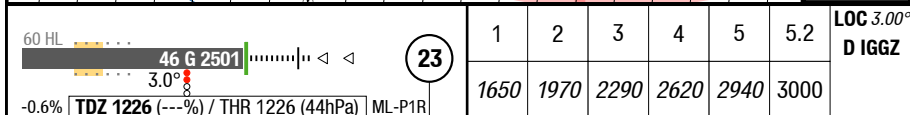
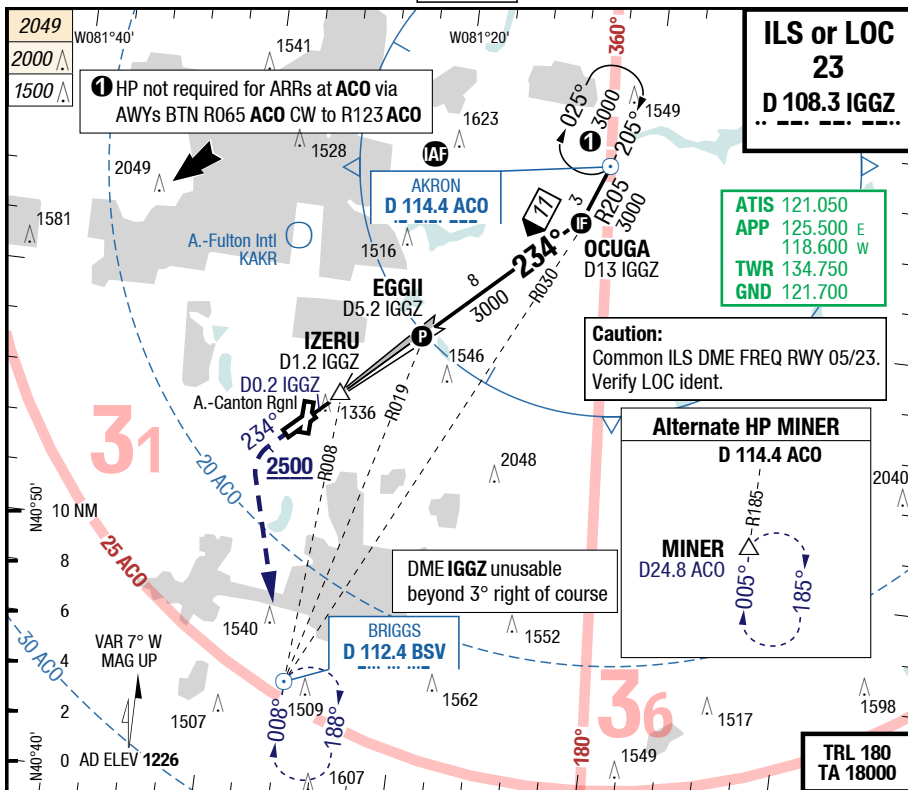
ILS or LOC 19



19		Cat 1 1)	LOC DME BSV	LOC wo ZEVL0	SRA 2)		Circling TERPS
C	ft - ft/SM ft	200 - 1800R/0.5V 1420	370 - 3000R/0.63V 1580	410 - 4000R/0.75V 1620	490 - 5000R/1.0V 1700		600 - 1.5V 1830
D	ft - ft/SM ft	200 - 1800R/0.5V 1420	370 - 4000R/0.75V 1580	410 - 4000R/0.75V 1620	490 - 5000R/1.0V 1700		700 - 2.25V 1930

1) FD or AP or HGS to DA required, else use RVR 2400ft or VIS 0.5SM

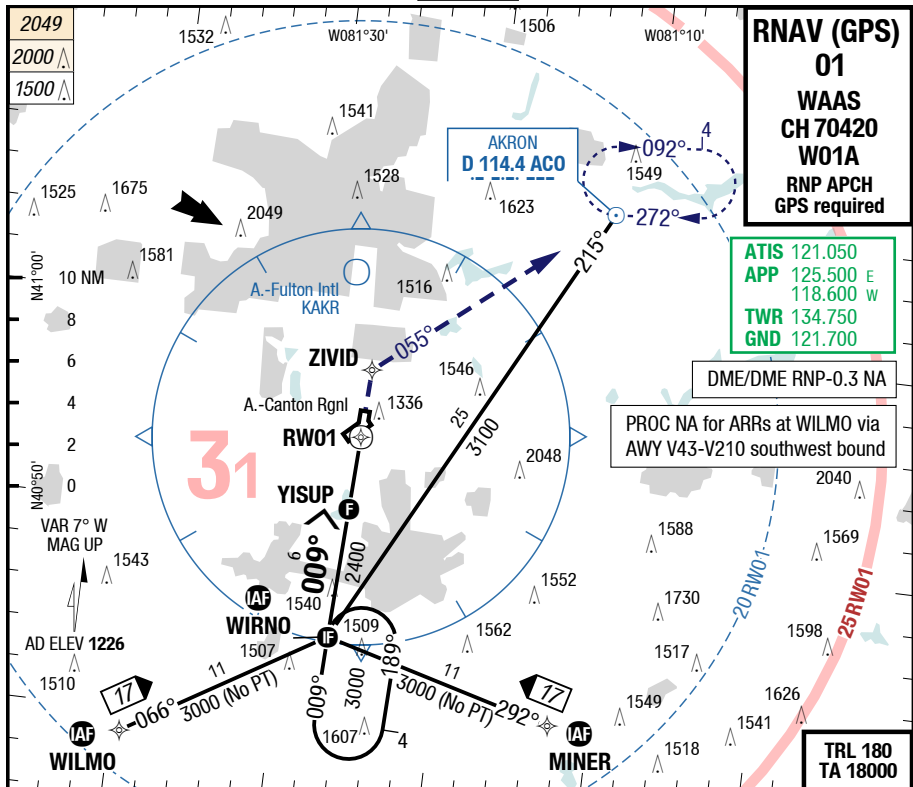
2) PROC NA when Akron-Canton APCH control CLSD

CAK-KCAK**7-40****ILS or LOC 23**

23		Cat 1 ₁₎	LOC	LOC wo IZRU	SRA ₂₎	Circling TERPS
C	ft - ft/SM ft	200 - 1800R/0.5V 1430	360 - 3000R/0.63V 1580	480 - 5000R/1.0V 1700	480 - 5000R/1.0V 1700	600 - 1.5V 1830
D	ft - ft/SM ft	200 - 1800R/0.5V 1430	360 - 4000R/0.75V 1580	480 - 5000R/1.0V 1700	480 - 5000R/1.0V 1700	700 - 2.25V 1930

1) FD or AP or HGS to DA required, else use RVR 2400ft or VIS 0.5SM

2) PROC NA when Akron-Canton APCH control CLSD

CAK-KCAK**7-50****RNAV (GPS) 01**

01		RNAV GPS LPV 1)	RNAV GPS VNAV 2)	RNAV GPS LNAV	Circling TERPS
C	ft - ft/SM	200 - 1800R/0.5V 1410	340 - 4000R/0.75V 1550	400 - 3500R/0.63V 1600	
D	ft - ft/SM	200 - 1800R/0.5V 1410	340 - 4000R/0.75V 1550	400 - 5000R/1.0V 1600	600 - 1.5V 1830
					700 - 2.25V 1930

1) FD or AP or HGS to DA required, else use RVR 2400ft or VIS 0.5SM

2) Uncompensated BARO VNAV NA below -17°C (2°F) or above 45°C (113°F)

17-MAY-2018

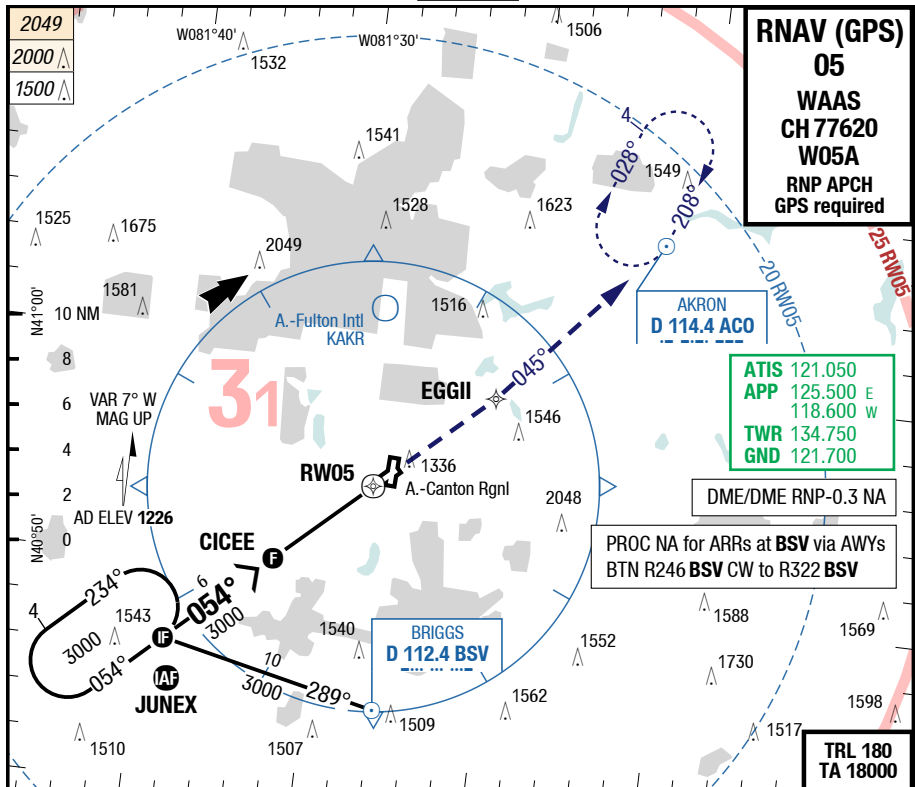
United States **Akron** Akron-Canton Rgnl

IAC

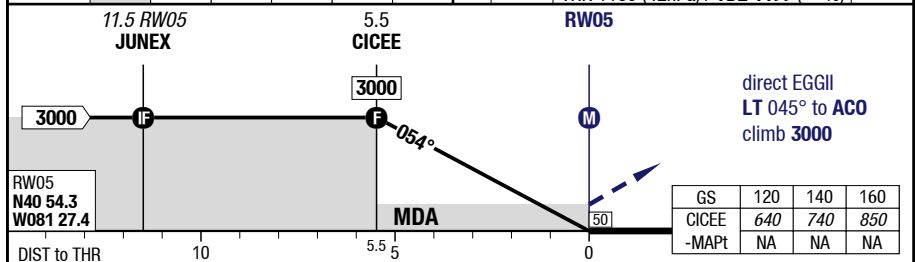
CAK-KCAK

7-60

RNAV (GPS) 05



3.00° RW05		5.5	5	4	3	2	<div> <div>05</div> <div> <div> <div>3.0°</div> <div>60 HL</div> </div> <div> <div>2501 G 46</div> </div> </div> </div>
		3000	2850	2530	2200	1880	



05		RNAV GPS LPV ¹⁾	RNAV GPS VNAV ²⁾	RNAV GPS LNAV			Circling TERPS
C	ft - ft/SM ft	200 - 1800R/0.5V 1400	380 - 5000R/1.0V 1580	450 - 4500R/0.88V 1640			600 - 1.5V 1830
D	ft - ft/SM ft	200 - 1800R/0.5V 1400	380 - 5000R/1.0V 1580	450 - 5000R/1.0V 1640			700 - 2.25V 1930

1) FD or AP or HGS to DA required, else use RVR 2400ft or VIS 0.5SM
2) Uncompensated BARO VNAV NA below -17°C (2°F) or above 46°C (114°F)

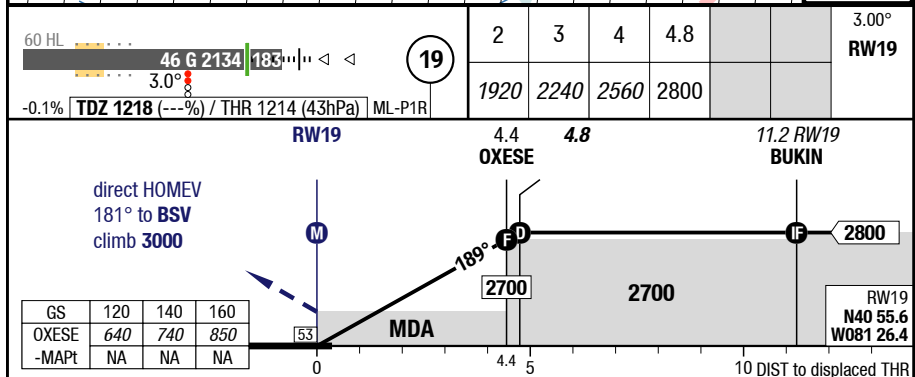
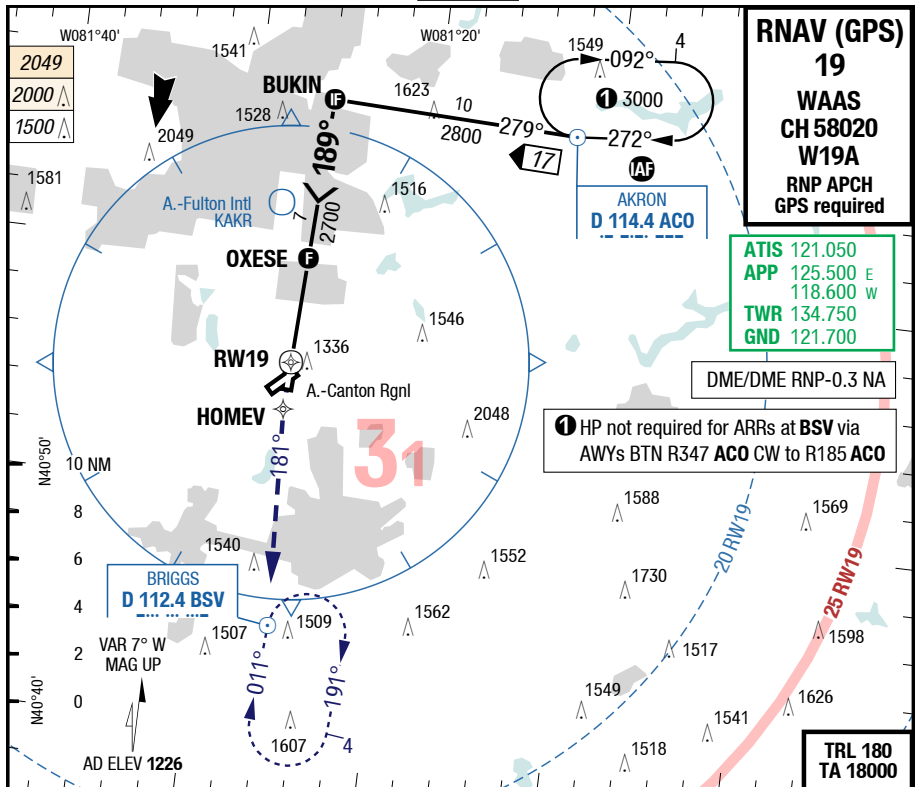
Changes: MIN, AMDT No

Orig B

CAK-KCAK

7-70

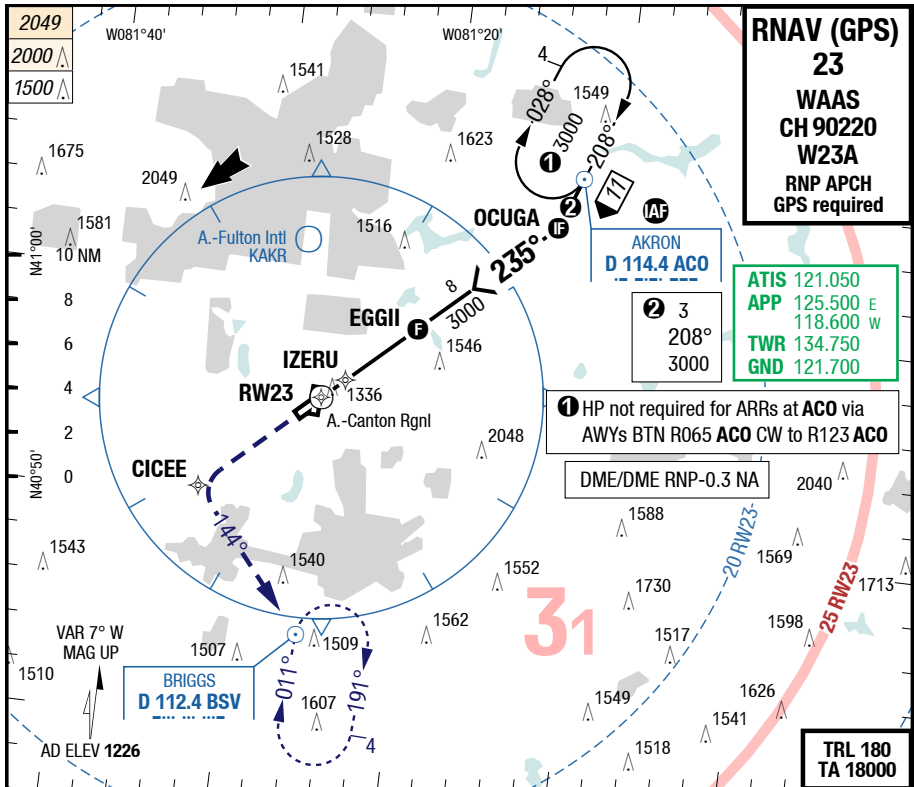
RNAV (GPS) 19



19	RNAV GPS LPV 1)	RNAV GPS VNAV 2)	RNAV GPS LNAV	Circling TERPS
C	ft - ft/SM ft 200 - 1800R/0.5V 1420	540 - 1.5V 1760	490 - 5000R/1.0V 1700	600 - 1.5V 1830
D	ft - ft/SM ft 200 - 1800R/0.5V 1420	540 - 1.5V 1760	490 - 5000R/1.0V 1700	700 - 2.25V 1930

1) FD or AP or HGS to DA required, else use RVR 2400ft or VIS 0.5SM

2) Uncompensated BARO VNAV NA below -17°C (2°F) or above 46°C (114°F)

CAK-KCAK**7-80****RNAV (GPS) 23**

60 HL	46 G 2501	23	2	3	4	5	5.4	3.00°
3.0°			1920	2240	2570	2890	3000	RW23 235°
-0.6% TDZ 1226 (---%) / THR 1226 (44hPa) ML-P1R								RWY 234°
direct CICEE LT 144° to BSV climb 3000								
GS 120 140 160								
EGGII 640 740 850								
-MAPt NA NA NA								
MDA 1700								
0 1.4 5.4 10								
DIST to THR								
23	RNAV GPS	RNAV GPS	RNAV GPS					Circling
LPV 1)	VNAV 2)	LNAV						TERPS
C ft - ft/SM	200 - 1800R/0.5V	470 - 6000R/1.25V	420 - 4000R/0.75V					600 - 1.5V
	1430	1700	1640					1830
D ft - ft/SM	200 - 1800R/0.5V	470 - 6000R/1.25V	420 - 5000R/1.0V					700 - 2.25V
	1430	1700	1640					1930

1) FD or AP or HGS to DA required, else use RVR 2400ft or VIS 0.5SM

2) Uncompensated BARO VNAV NA below -17°C (2°F) or above 46°C (114°F)

VOR 05

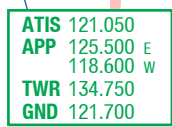


Diagram illustrating a direct ACO climb. The climb starts at 3000 feet and reaches the MDA (1680 feet) at D16.8 ACO RW05. The climb is direct, reaching 3000 feet. The MDA is 1680 feet. The diagram also shows the distance to the THR (5.2) and the distance to the next point (1.3).

GS	120	140	160
D22 ACO	680	800	910
-MAPt	2:35	2:13	1:57

05		VOR	VOR wo WOXAM				Circling TERPS
C	ft - ft/SM ft	410 - 4000R/0.75V 1600	490 - 5000R/1.0V 1680				600 - 1.5V 1830
D	ft - ft/SM ft	410 - 5000R/1.0V 1600	490 - 5000R/1.0V 1680				700 - 2.25V 1930

VOR 23

