

GENERAL**Operational Hours****ATS Hours:** H24**AD OPS Hours:** Attended continuously**Airport Information****RFF:** FAA Index C / CAT 7**Fuel:** Jet A1+**PCN:** RWY 10R/28L: 77/F/C/W/T, RWY 10L/28R: 61/F/C/W/T**Customs:** To REQ LDG rights contact US Customs between 1230-0300†**Operation****Traffic Note**

Terminal Doppler Weather Radar (TDWR) in operation.

TWY Restrictions

TWY D5 (N of TWY D), TWY R1 and noise barrier SE side of AD MAX wingspan 24m / 79ft.

TWY F1, J2 MAX wingspan 37m / 120ft.

TWY R2, R3, R4, R5, R6 MAX wingspan 36m / 118ft.

Taxilane south of A concourse between TWY D3 and TWY D4 MAX wingspan 40m / 130ft.

All surfaces around terminal, north of TWY D and south of TWY E are non-movement areas.

VOR Test Facility (VOT): 111.0**Warnings****AQI ILS/DME RWY 10R** unusable: Beyond 20° right of course.

Model ACFT 8NM on bearing 10° from AD up to 5000ft AGL, SR-SS.

Birds and deer in vicinity of AD.

ARRIVAL**Speed**

MAX IAS 250KT below 10000ft.

Communication

COM Failure: See CRAR United States and in addition;

BREMN

LDG Port Columbus INTL:

- From BREMN INT direct APE VOR/DME, maintain 3000ft until APE VOR/DME.

LDG Ohio State University:

- From BREMN INT via V45 to APE VOR/DME then via V12 to DIPNE INT then direct FULER (OS) LOM, maintain 3000ft until FULER (OS) LOM. (ADF required)

LDG Bolton Field:

- From BREMN INT to XUB VOR direct BOUTN (BU) LOM, maintain 3000ft until BOUTN (BU) LOM. (ADF required)

GAILL

- LDG east: at WOLAN fly heading 360°, intercept final APCH course and execute APCH.
- LDG west: at NUMDE fly heading 010°, intercept final APCH course and execute APCH.

GUNNE

For all ADs:

- From GUNNE INT direct APE VOR/DME, maintain 4000ft until APE VOR/DME.

Arrival Procedure**Non-standard GP intercept position on RWY 10R**

GP intercepts RWY 10R at *314m / 1030ft* after landing threshold.

Remaining LDG DIST beyond GP is *2768m / 9083ft*.

DEPARTURE**Take-off Minima**

RWY		10L/28R, 10R/28L	
1+2 ENG	ft - ft/SM	0 - 5000R/1.0V	-
3+4 ENG		0 - 2400R/0.5V	-

Speed

MAX IAS 250KT below 10000ft.

Communication

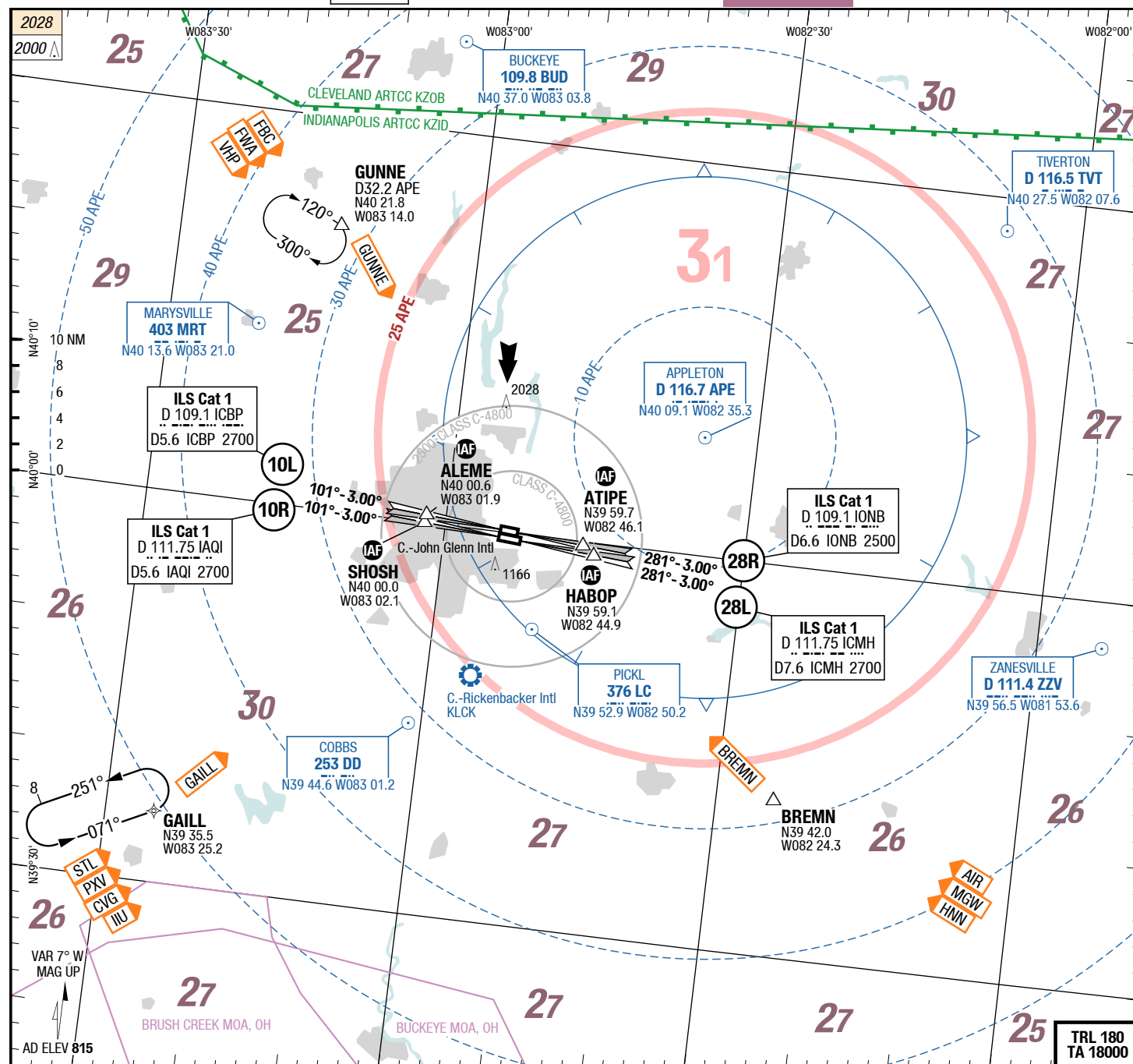
COM Failure: See CRAR United States.

CMH-KCMH

AFC

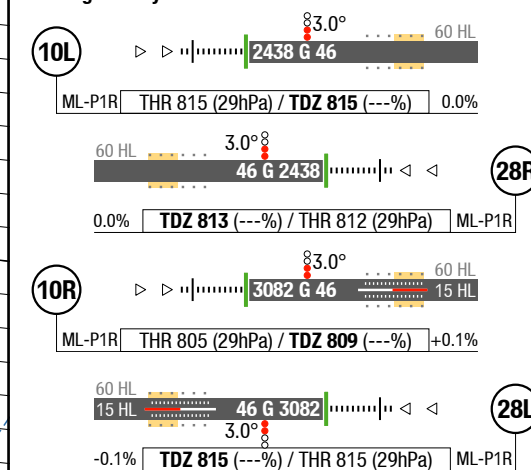
AFC

2-10



D-ATIS	124.600	ASOS		
APP	118.000		118.200	
	119.650		125.950	280°-099°
	129.950		132.300	100°-279°
	134.000	100°-279°		
Final	134.450			
DEP	118.000		125.950	280°-099°
	129.950		132.300	100°-279°
	134.000	100°-279°		
TWR	132.700			
UNICOM	122.950			
GND	121.900			
RCO (Dayton RDO)			122.200	
			122.300	
DLV	126.300			
CPDLC	DCL			
PDC				

Landing RWY system:



Changes: FREQ

Effective 24-MAY-2018

17-MAY-2018

CMH-KCMH

United States Columbus John Glenn Columbus Intl

AGC

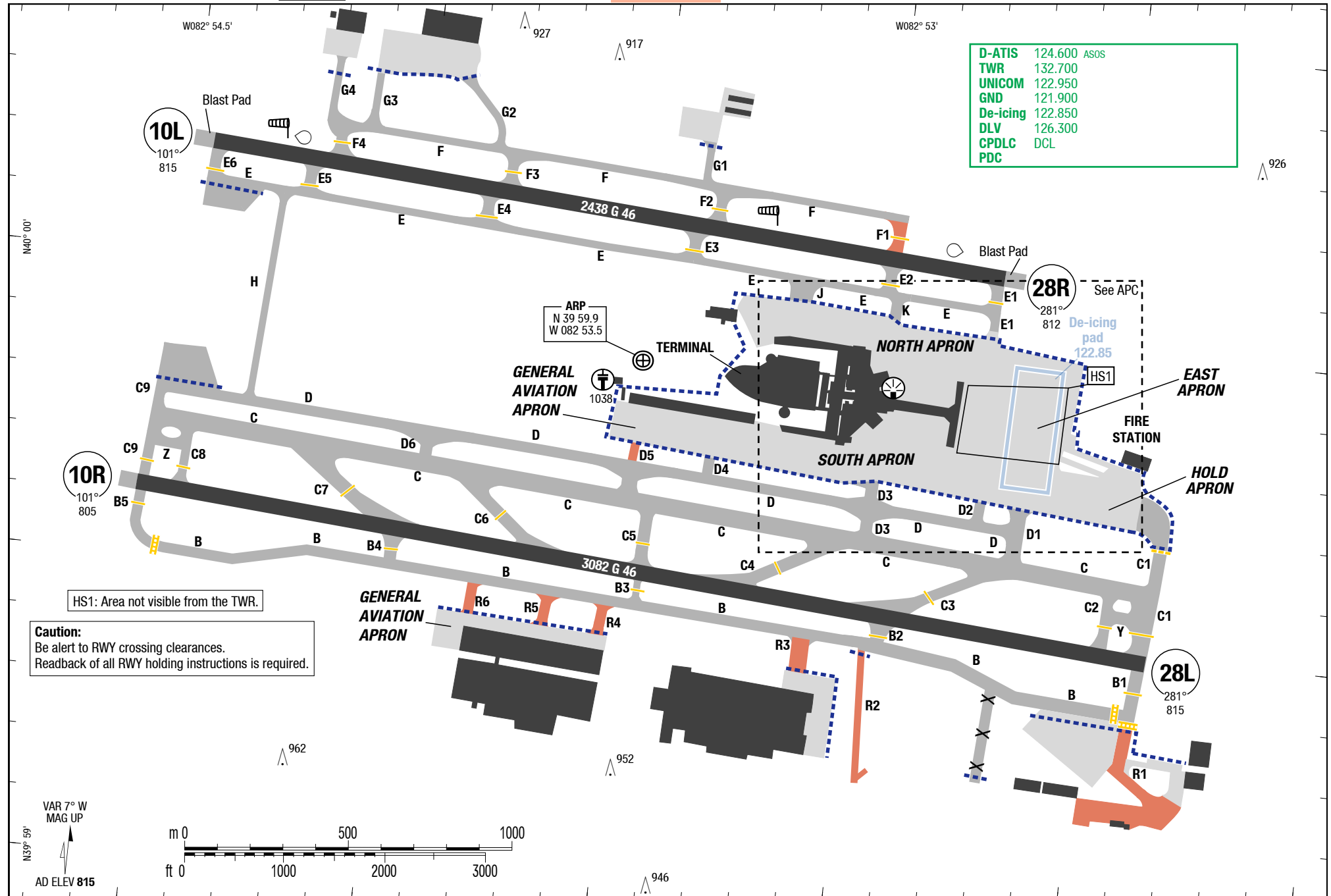
AGC

AGC

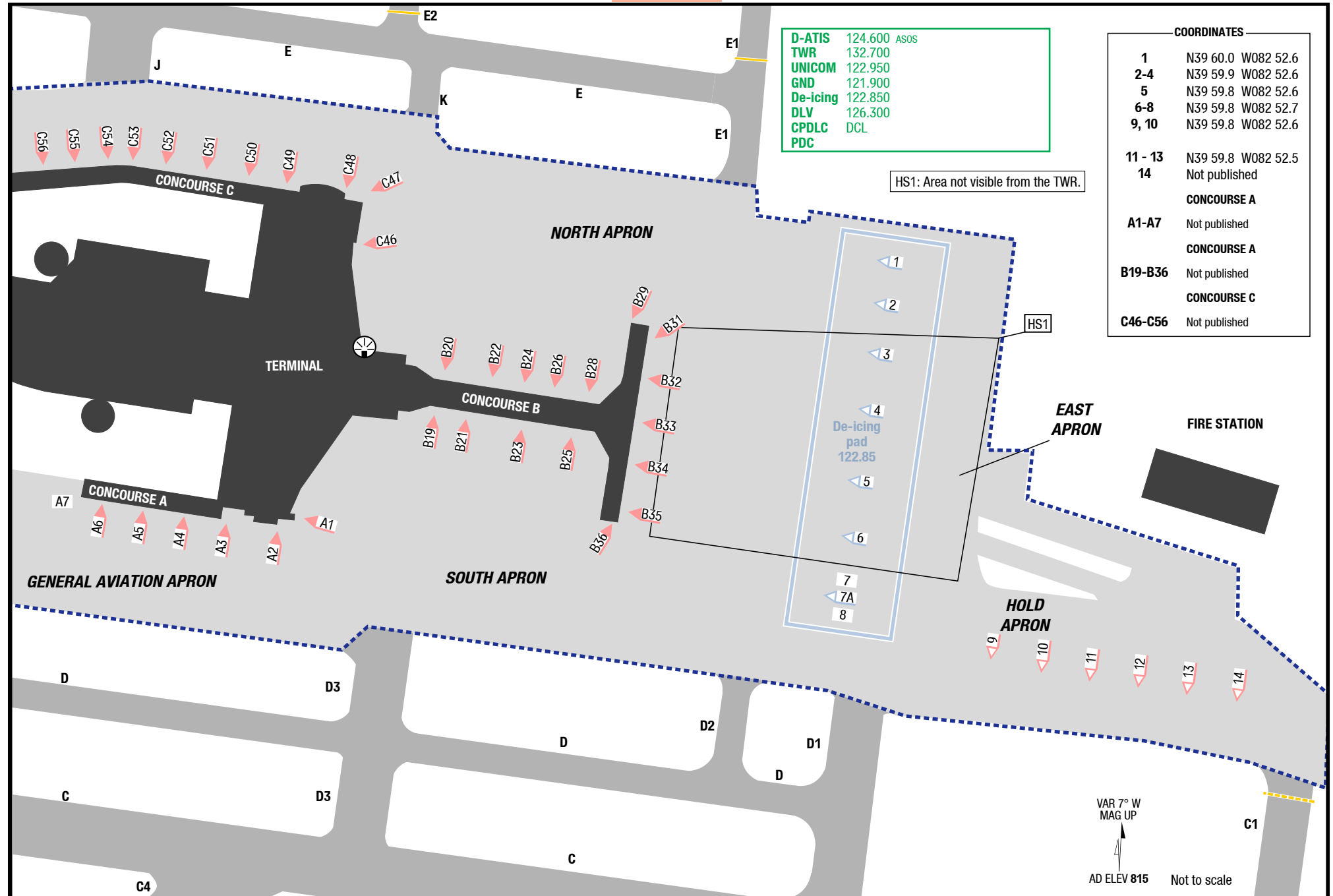
John Glenn Columbus Intl Columbus United States

AGC

3-20



3-30



Obstacle Departure	
RWY	Routing
28L	Climb RWY HDG - at MNM 2100 turn southbound.
28R	Climb RWY HDG - at MNM 2000 turn southbound.
RWY	Notes
10L	Sign 23ft from DER, 348ft right of centerline, 3ft AGL/813ft MSL. Trees beginning 1308ft from DER, 800ft left of centerline, up to 79ft AGL/869ft MSL. Trees beginning 1721ft from DER, 764ft right of centerline, up to 88ft AGL/878ft MSL.
10R	Aircraft on taxiway abeam DER, 290ft right of centerline, up to 59ft AGL/878ft MSL. Sign 42ft from DER, 159ft left of centerline, 6ft AGL/817ft MSL. Poles and building beginning 934ft from DER, 538ft right of centerline, up to 42ft AGL/852ft MSL. Trees beginning 1319ft from DER, 225ft right of centerline, up to 116ft AGL/886 MSL.
28L	Building 42ft from DER, 111ft right of centerline, 6ft AGL/810ft MSL. Trees beginning 1563ft from DER, 870ft left of centerline, up to 93ft AGL/902ft MSL.
28R	Tower 1260ft from DER, 837ft left of centerline, 75ft AGL/875ft MSL. Trees and poles beginning 1228ft from DER, 624ft right of centerline, up to 72ft AGL/882ftMSL. Light 5ft from DER, 4ft left of centerline, 1ft AGL/815ft MSL.

30-NOV-2017
CMH-KCMH

United States **Columbus** John Glenn Columbus Intl

BREMN 5

GAILL 3 RNAV

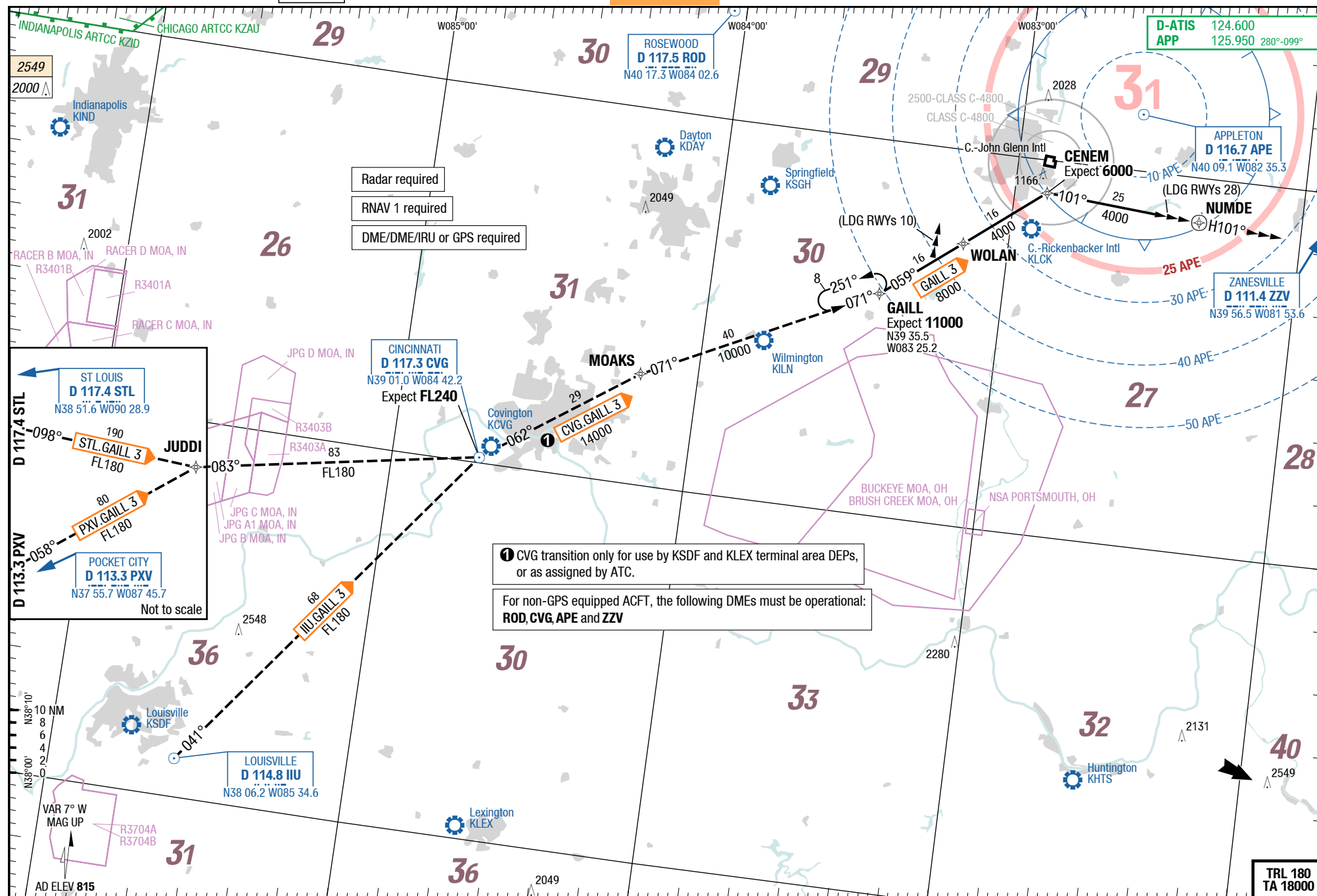
STAR

STAR

John Glenn Columbus Intl **Columbus** United States

BREMN 5

GAILL 3 RNAV



Changes: FREQ

30-NOV-2017
CMH-KCMH

United States **Columbus** John Glenn Columbus Intl

John Glenn Columbus Intl **Columbus** United States

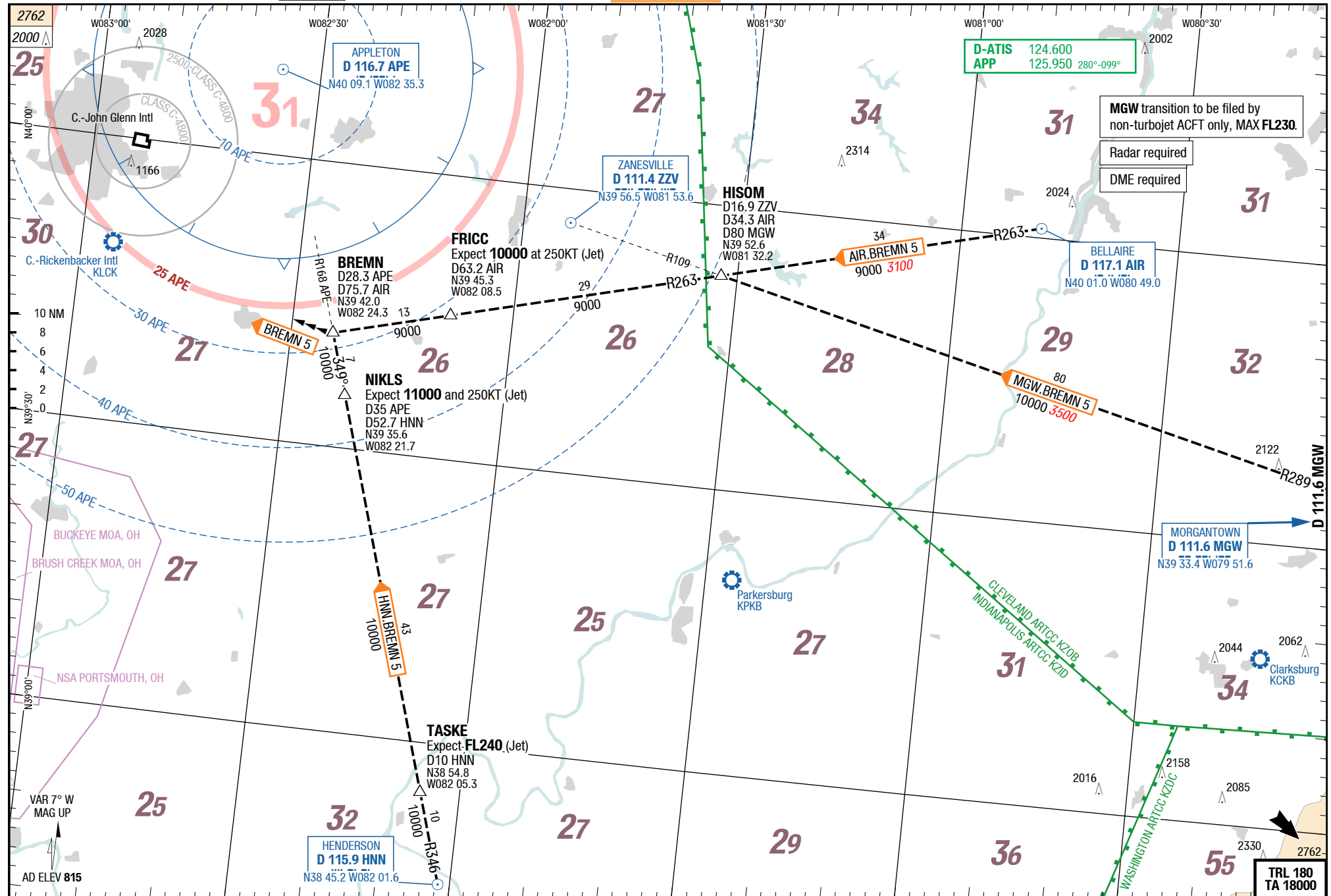
6-20

BREMN 5

STAR

STAR

BREMN 5



Changes: FREQ

30-NOV-2017
CMH-KCMH

United States **Columbus** John Glenn Columbus Intl

NIL

GUNNE 4

STAR

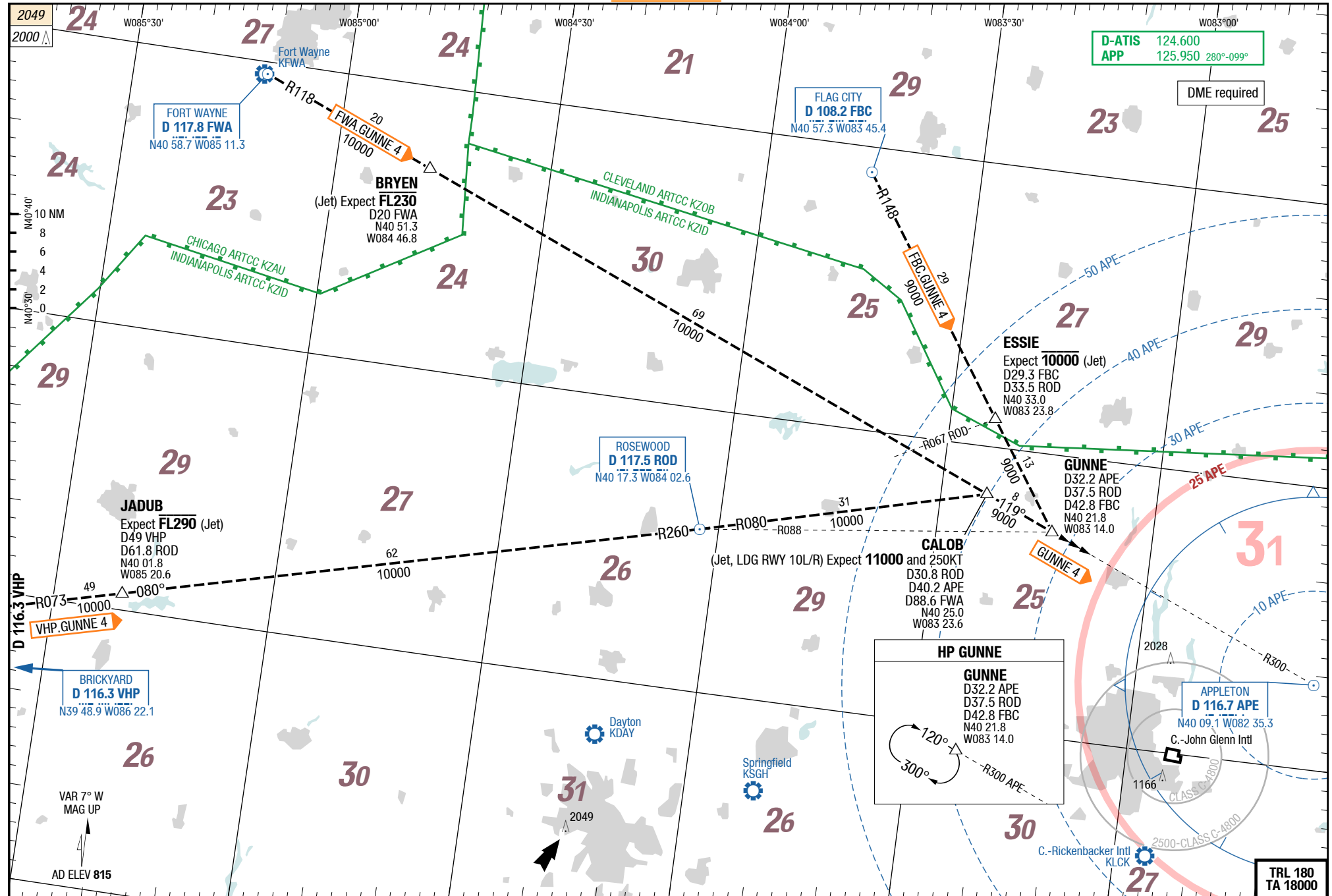
STAR

John Glenn Columbus Intl **Columbus** United States

NIL

GUNNE 4

6-30

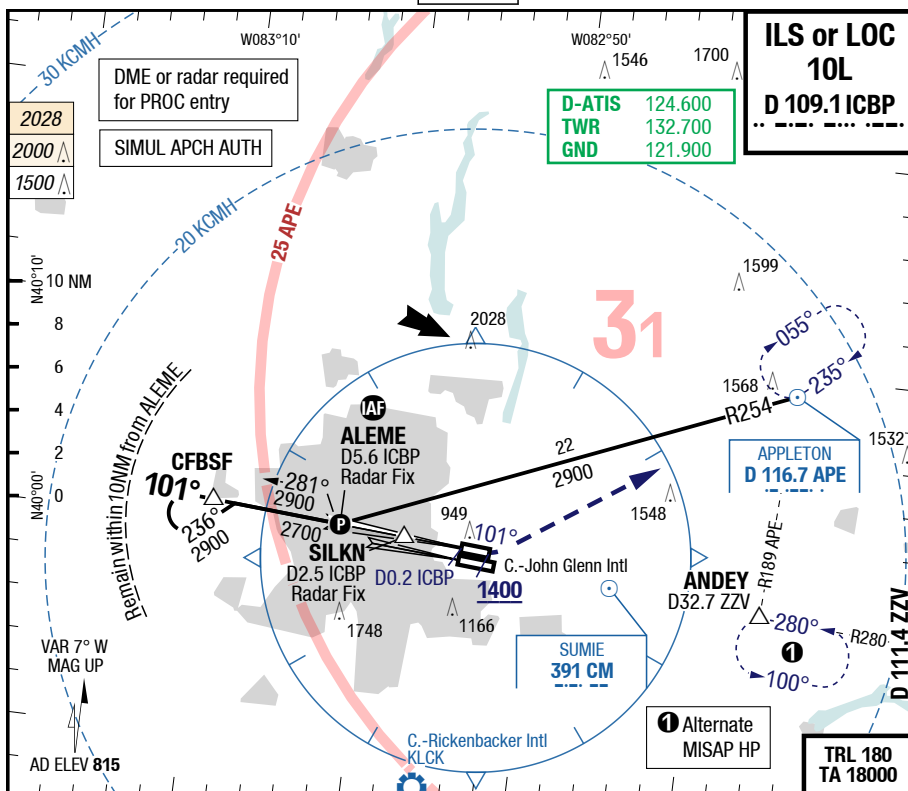


Changes: FREQ

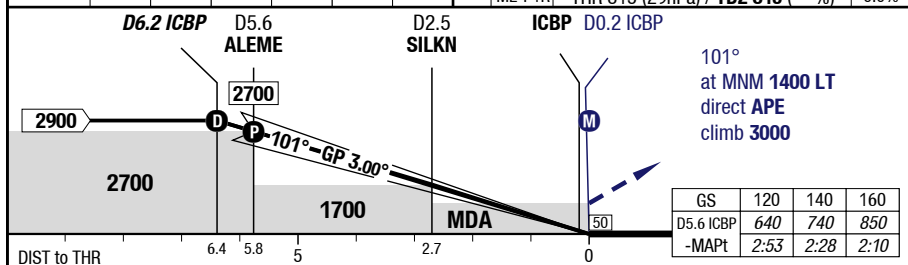
CMH-KCMH

7-10

ILS or LOC 10L



LOC 3.00° D ICBP	6.2	6	5	4	3	2	<div> <div> <div>10L</div> <div> <div> <div>3.0°</div> <div>60 HL</div> </div> <div> <div>2438 G 46</div> </div> </div> </div> <div> ML-P1R THR 815 (29hPa) / TDZ 815 (---%) 0.0% </div> </div>
	2900	2830	2520	2200	1880	1560	

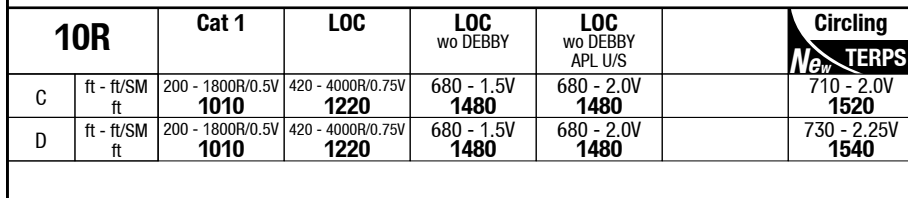


10L		Cat 1 1)	LOC	LOC APL U/S	LOC wo SILKN	Circling	Circling ²⁾
						N_{BW} TERPS	N_{BW} TERPS
C	ft - ft/SM ft	200 - 1800R/0.5V 1020	570 - 1.25V 1380	570 - 1.75V 1380	890 - 2.0V 1700	710 - 2.0V 1520	890 - 2.75V 1700
D	ft - ft/SM ft	200 - 1800R/0.5V 1020	570 - 1.25V 1380	570 - 1.75V 1380	890 - 2.0V 1700	730 - 2.25V 1540	890 - 3.0V 1700

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

2) LOC wo SILKN

ILS or LOC 10R



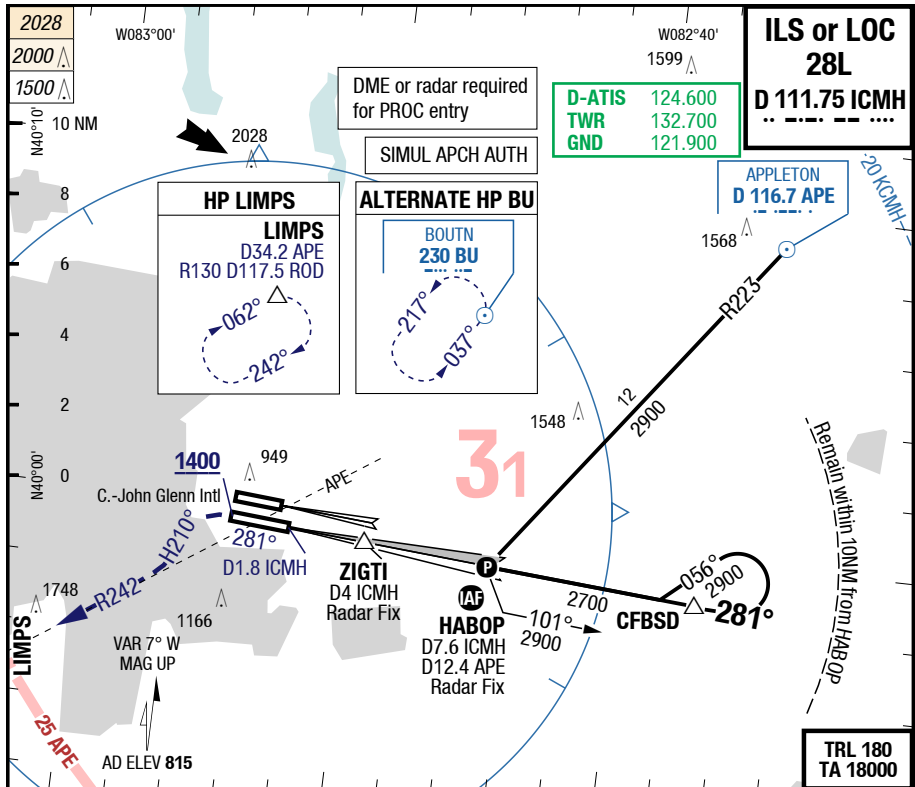
30-NOV-2017

IAC

CMH-KCMH

7-30

ILS or LOC 28L



60 HL
15 HL
46 G 3082
3.0°
-0.1% TDZ 815 (---%) / THR 815 (29hPa) ML-P1R

28L

5	6	7	8	8.2	LOC 3.00° D ICMH
1880	2200	2520	2840	2900	

281°
at MNM 1400 LT HDG 210°
intercept R242 APE
to LIMPS (D34.2 APE)
climb 3000

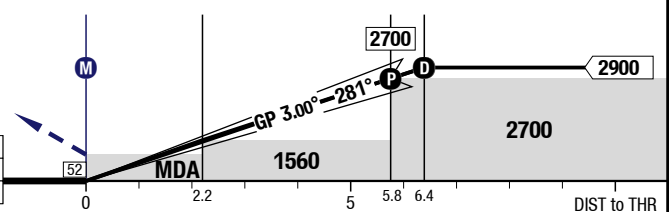
GS	120	140	160
D7.6 ICMH	640	740	850
-MAPt	2:53	2:28	2:09

ICMH D1.8

D4 ZIGTI

D7.6 D8.2 ICMH

HABOP



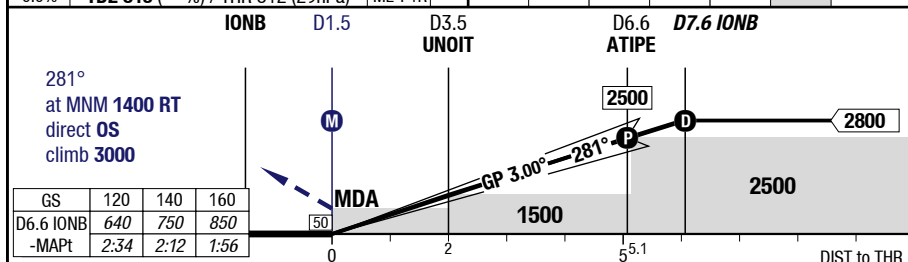
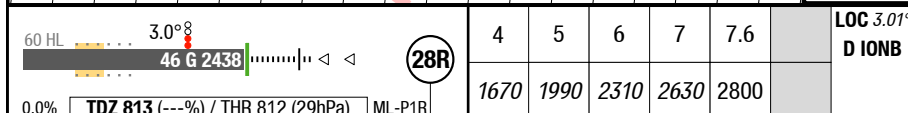
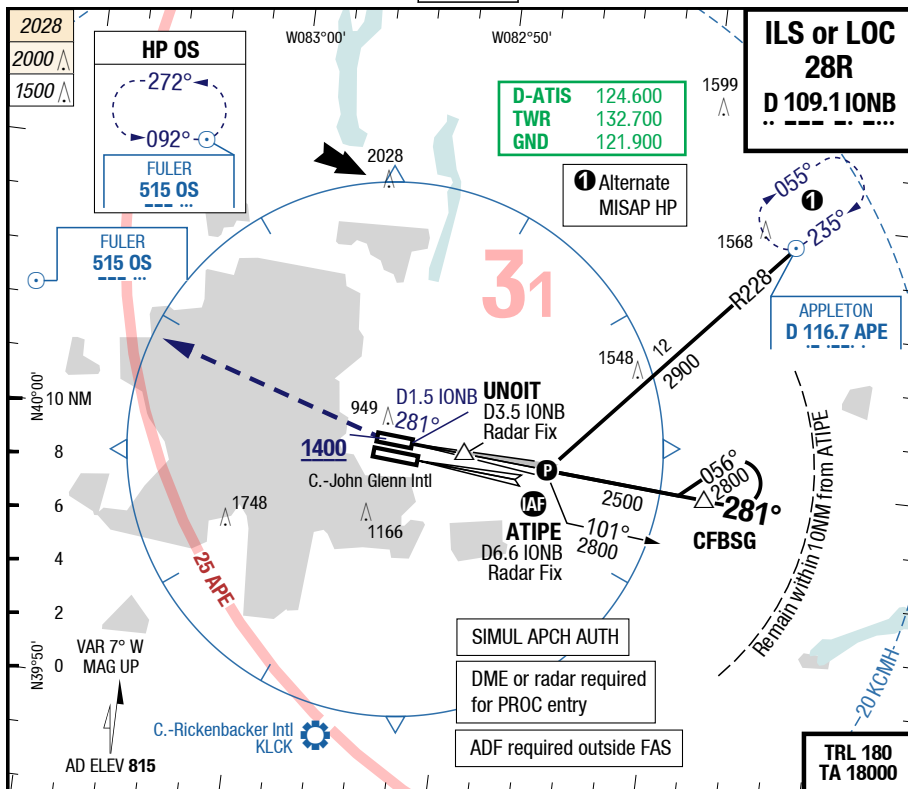
TERPS	28L	Cat 1	LOC	LOC wo ZIGTI	LOC wo ZIGTI APL U/S	Circling New TERPS	Circling New TERPS
C	ft - ft/SM ft	200 - 1800R/0.5V 1020	510 - 5500R/1.0V 1320	750 - 1.5V 1560	750 - 2.0V 1560	710 - 2.0V 1520	750 - 2.25V 1560
D	ft - ft/SM ft	200 - 1800R/0.5V 1020	510 - 5500R/1.0V 1320	750 - 1.75V 1560	750 - 2.0V 1560	730 - 2.25V 1540	750 - 2.5V 1560

1) wo ZIGTI

CMH-KCMH

7-40

ILS or LOC 28R



28R		Cat 1 ¹⁾	LOC ¹⁾	LOC wo UNOIT ¹⁾	Circling TERPS
C	ft - ft/SM ft	210 - 2400R/0.5V 1020	450 - 4500R/0.88V 1260	690 - 1.5V 1500	710 - 2.0V 1520
D	ft - ft/SM ft	210 - 2400R/0.5V 1020	450 - 4500R/0.88V 1260	690 - 1.5V 1500	710 - 2.25V 1520

1) Autopilot coupled APCH NA below 2023ft MSL

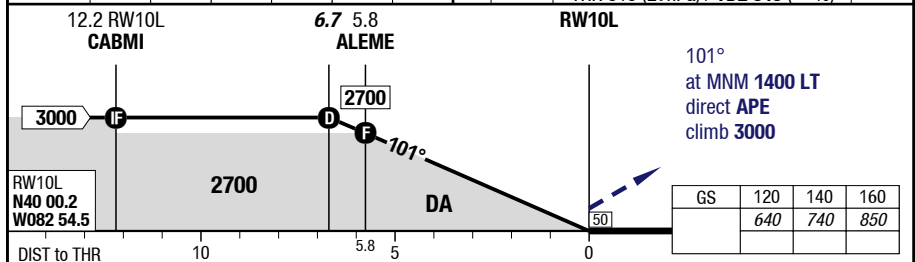
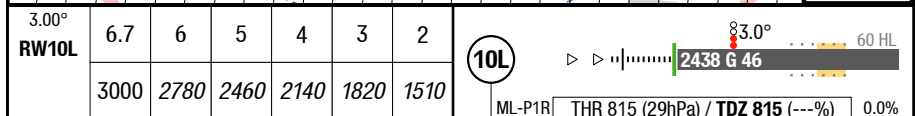
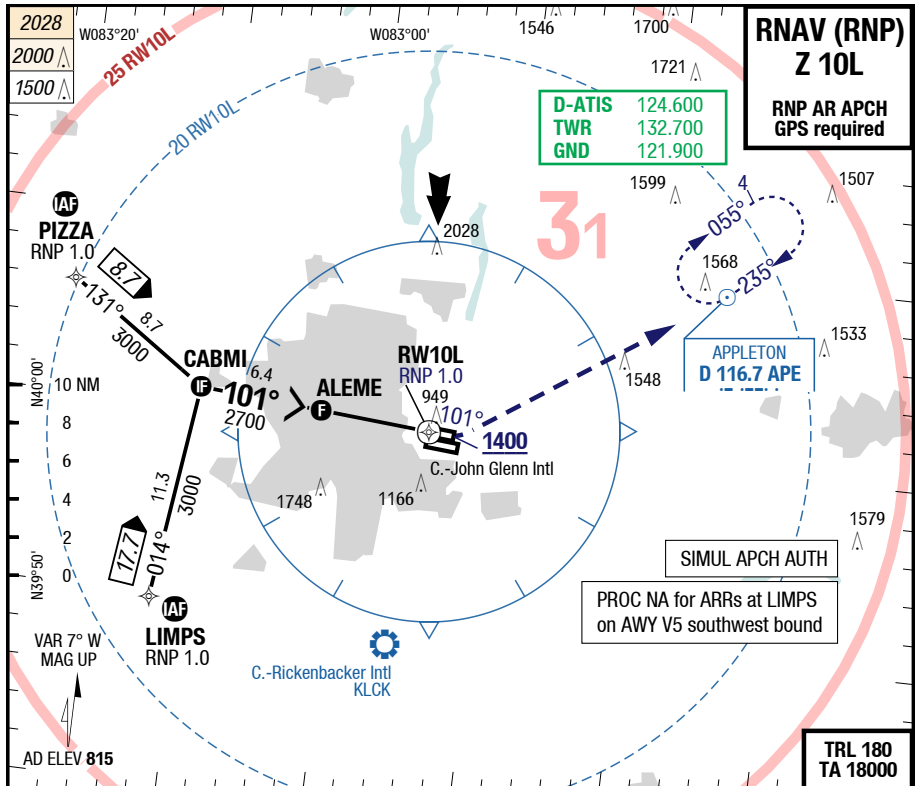
06-SEP-2018

IAC

CMH-KCMH

7-50

RNAV (RNP) Z 10L



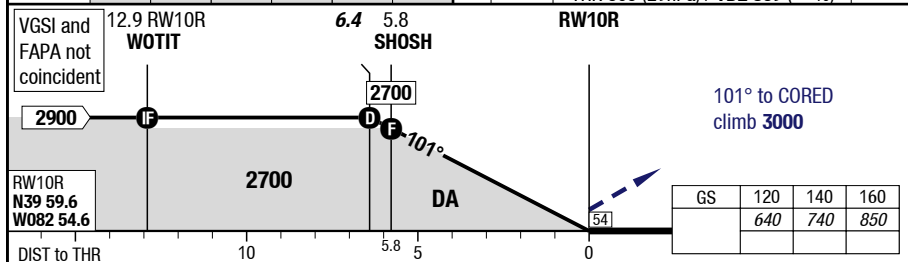
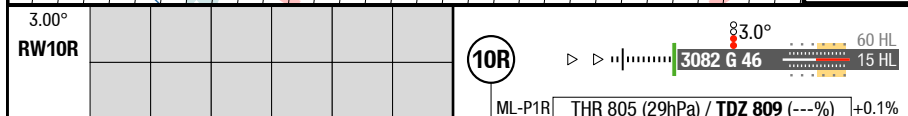
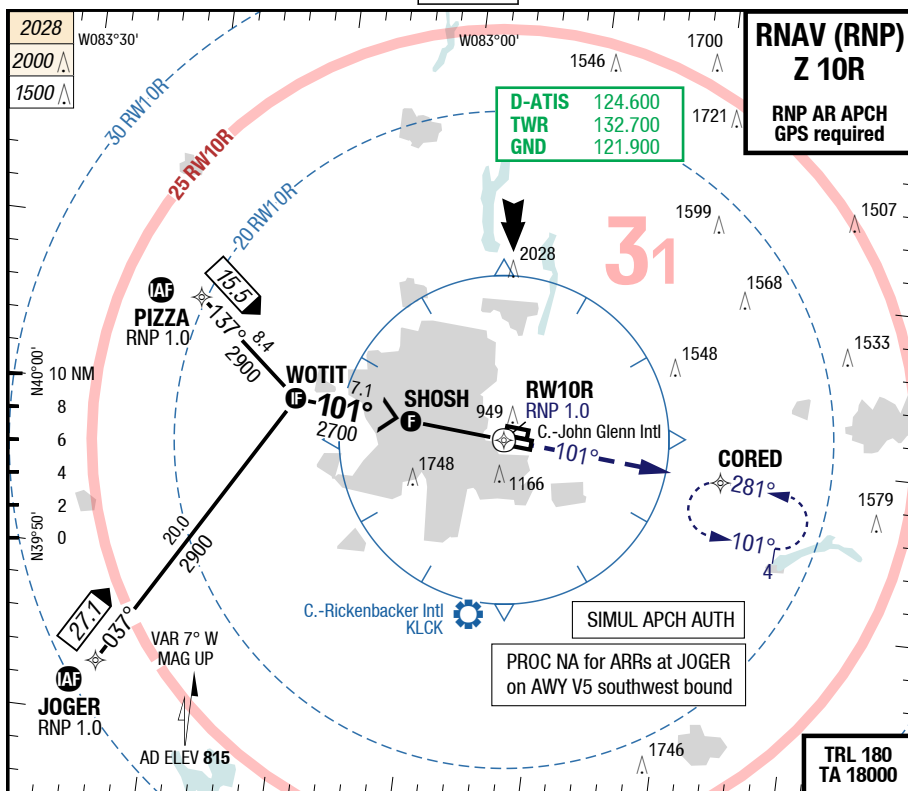
10L		RNAV RNP 0.13 VNAV ¹⁾	RNAV RNP 0.26 VNAV ¹⁾	RNAV RNP 0.26 VNAV APL U/S ¹⁾	RNAV RNP 0.30 VNAV ¹⁾	RNAV RNP 0.30 VNAV APL U/S ¹⁾	Circling
TERPS							NE TERPS
C	ft - ft/SM ft	330 - 4000R/0.75V 1150	380 - 4000R/0.75V 1200	380 - 1.25V 1200	440 - 5000R/1.0V 1250	440 - 1.5V 1250	Not published
D	ft - ft/SM ft	330 - 4000R/0.75V 1150	380 - 4000R/0.75V 1200	380 - 1.25V 1200	440 - 5000R/1.0V 1250	440 - 1.5V 1250	Not published

1) Uncompensated BARO VNAV NA below -18°C (0°F) or above 54°C (130°F)

СМН-КСМН

7-60

RNAV (RNP) Z 10R



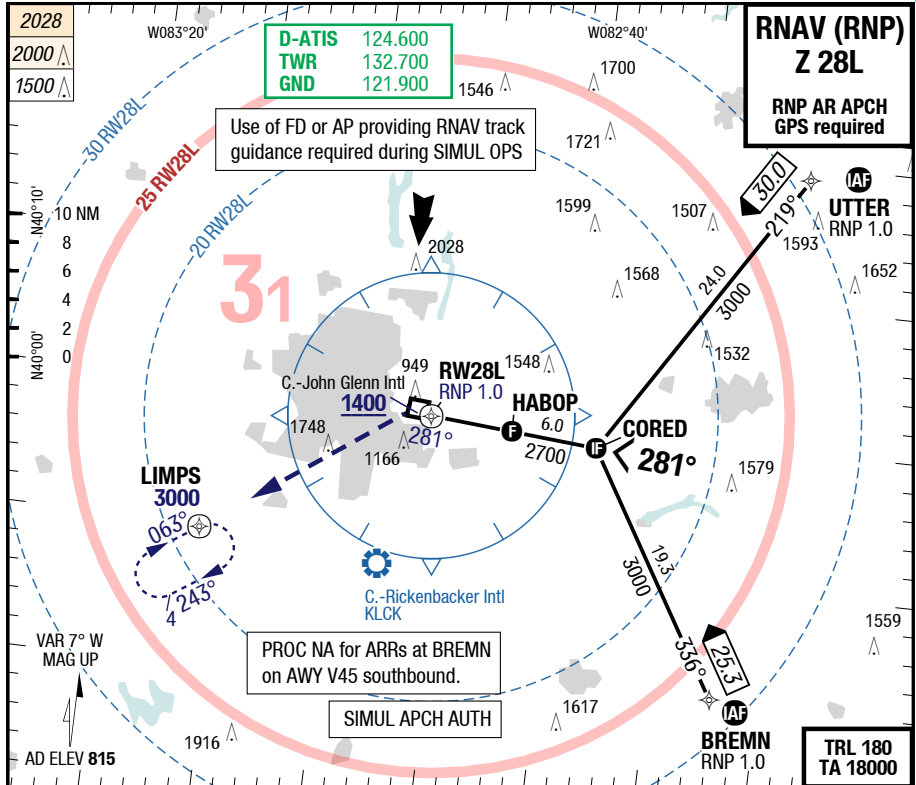
10R		RNAV RNP 0.17 VNAV 1)	RNAV RNP 0.17 VNAV APL U/S 1)	RNAV RNP 0.30 VNAV 1)	RNAV RNP 0.30 VNAV APL U/S 1)	Circling
TERPs						Ne_w TERPS
C	ft - ft/SM ft	370 - 3500R/0.63V 1180	370 - 6000R/1.13V 1180	480 - 5500R/1.0V 1290	480 - 1.75V 1290	Not published
D	ft - ft/SM ft	370 - 3500R/0.63V 1180	370 - 6000R/1.13V 1180	480 - 5500R/1.0V 1290	480 - 1.75V 1290	Not published

1) Uncompensated BARO VNAV NA below -18°C (°0F) or above 54°C (130°F)

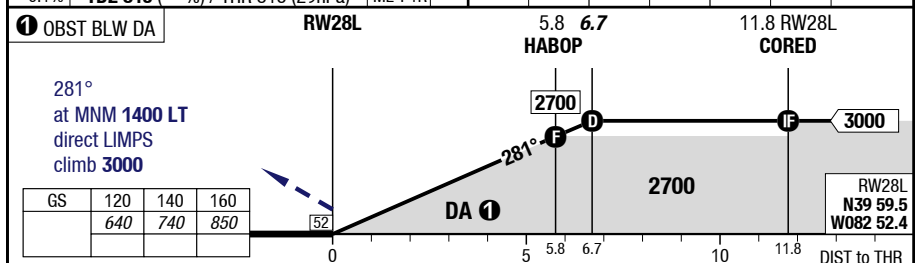
CMH-KCMH

7-70

RNAV (RNP) Z 28L



60 HL	46 G 3082	28L	2	3	4	5	6	6.7	3.00°
15 HL			1510	1830	2140	2460	2780	3000	RW28L
-0.1%	TDZ 815 (---%) / THR 815 (29hPa)	ML-P1R							



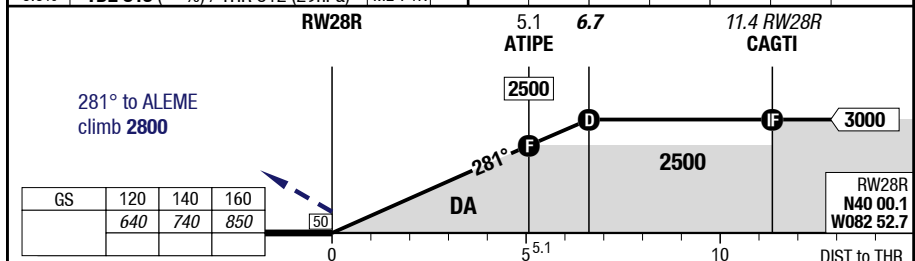
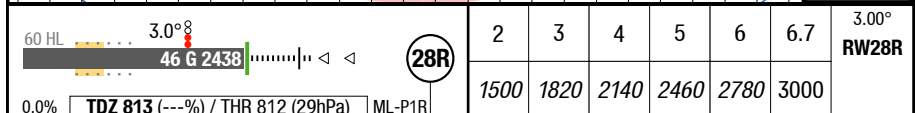
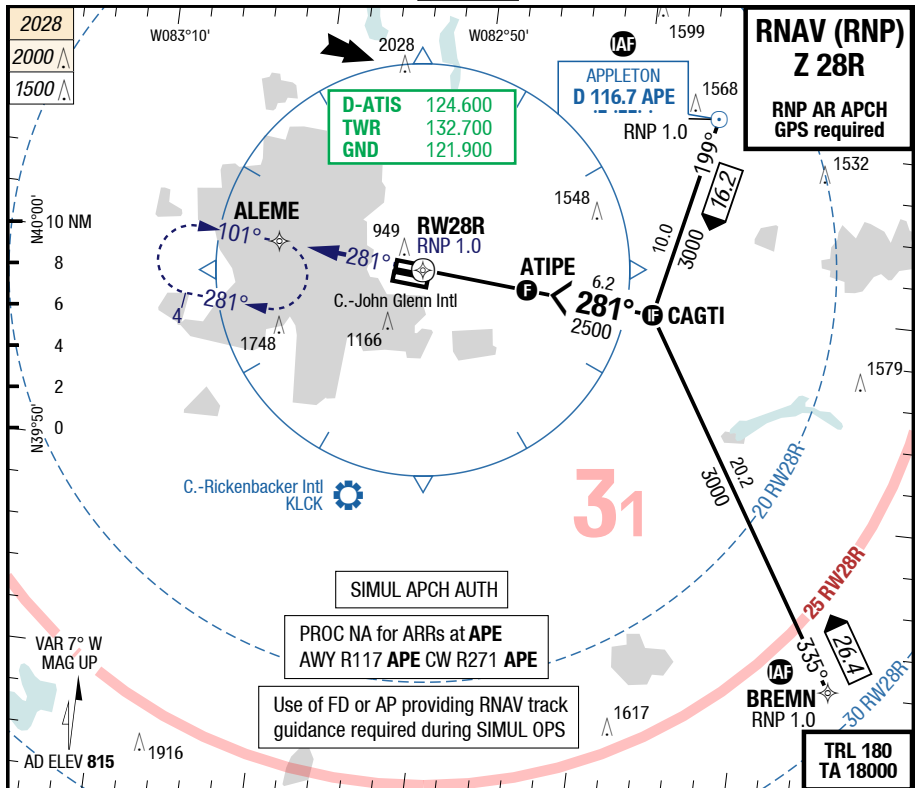
TERPS	28L	RNAV RNP 0.17 VNAV 1)	RNAV RNP 0.17 VNAV APL U/S 1)	RNAV RNP 0.30 VNAV 1)	RNAV RNP 0.30 VNAV APL U/S 1)	Circling New TERPS
C	ft - ft/SM ft	290 - 4000R/0.75V 1110	290 - 5000R/1.0V 1110	480 - 6000R/1.25V 1300	480 - 1.75V 1300	Not published
D	ft - ft/SM ft	290 - 4000R/0.75V 1110	290 - 5000R/1.0V 1110	480 - 6000R/1.25V 1300	480 - 1.75V 1300	Not published

1) Uncompensated BARO VNAV NA below -18°C (0°F) or above 54°C (130°F)

CMH-KCMH

7-80

RNAV (RNP) Z 28R



28R		RNAV RNP 0.16 VNAV 1)	RNAV RNP 0.16 VNAV APL U/S 1)	RNAV RNP 0.30 VNAV 1)	RNAV RNP 0.30 VNAV APL U/S 1)	Circling TERPS
C	ft - ft/SM ft	360 - 5000R/1.0V 1170	360 - 6000R/1.25V 1170	420 - 5000R/1.0V 1230	420 - 1.38V 1230	Not published
D	ft - ft/SM ft	360 - 5000R/1.0V 1170	360 - 6000R/1.25V 1170	420 - 5000R/1.0V 1230	420 - 1.38V 1230	Not published

1) Uncompensated BARO VNAV NA below -18°C (0°F) or above 54°C (130°F)

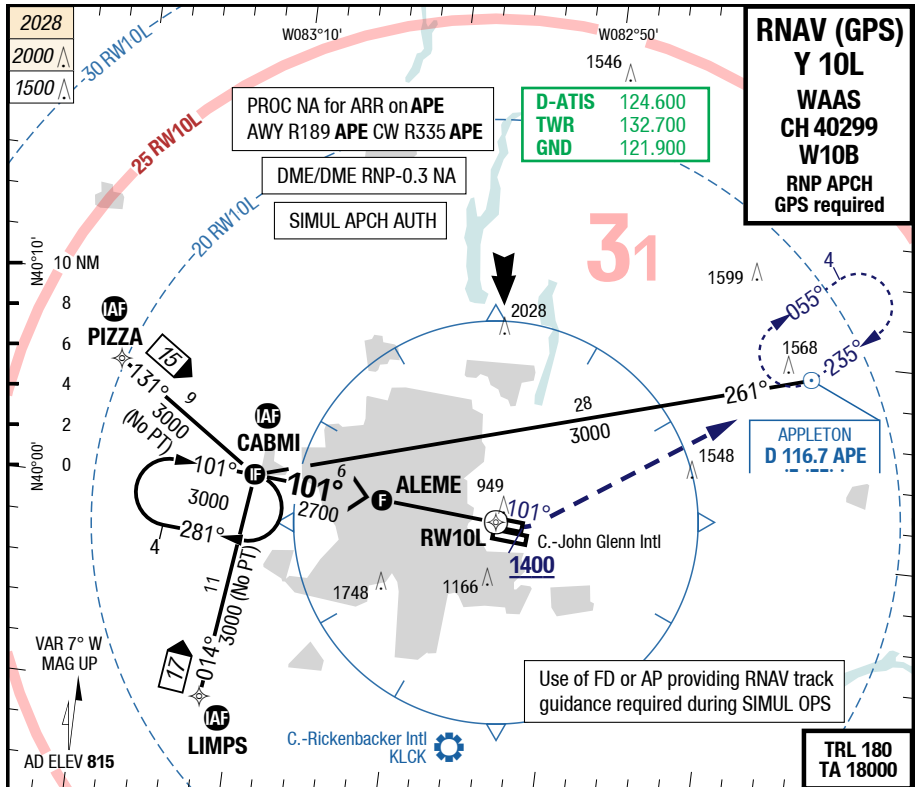
30-NOV-2017

CMH-KCMH

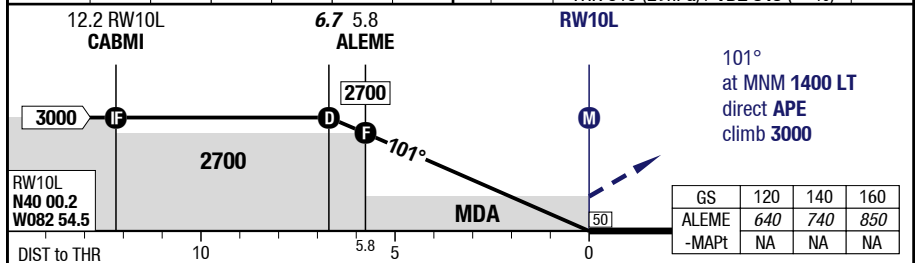
7-90

RNAV (GPS) Y 10L

IAC



3.00°	6.7	6	5	4	3	2	10L	83.0°	60 HL
RW10L	3000	2780	2460	2140	1820	1510		2438 G 46	
	ML-P1R THR 815 (29hPa) / TDZ 815 (---%) 0.0%								



10L	RNAV GPS LPV 1)	RNAV GPS VNAV 2)	RNAV GPS LNAV 3)	Circling TERPS
C	ft - ft/SM ft 200 - 1800R/0.5V 1020	390 - 4000R/0.75V 1200	670 - 1.5V 1480	710 - 2.0V 1520
D	ft - ft/SM ft 200 - 1800R/0.5V 1020	390 - 4000R/0.75V 1200	670 - 1.5V 1480	730 - 2.25V 1540

1) FD, AP or HGS required, else RVR 2400ft or VIS 0.5SM 2) Uncompensated BARO VNAV NA below -18°C (0°F) or above 54°C (130°F)
3) NA during SIMUL OPS

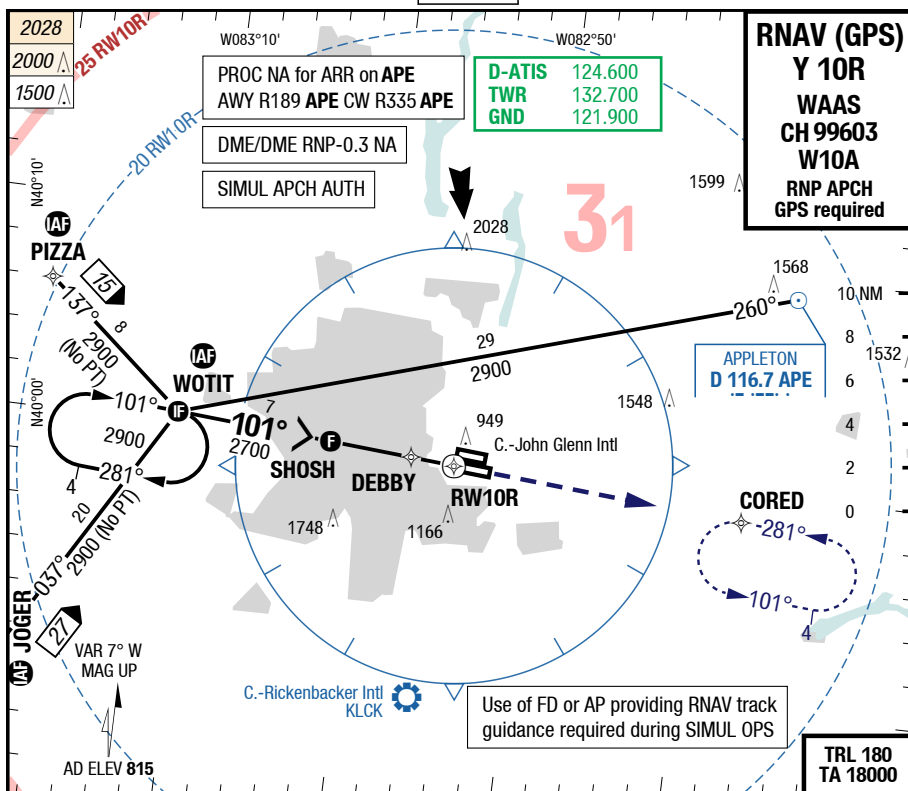
Changes: MIN, AMDT No


AMDT 3C

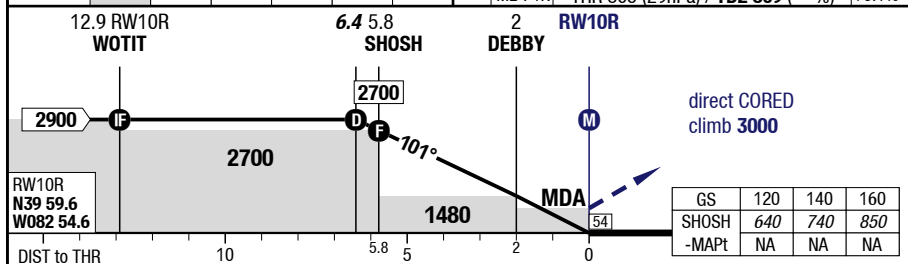
СМН-КСМН

7-100

RNAV (GPS) Y 10R



3.00° RW10R		6.4	6	5	4	3	 10R ML-P1R THR 805 (29hPa) / TDZ 809 (---%) +0.1%
		2900	2770	2460	2140	1820	



10R		RNAV GPS LPV	RNAV GPS VNAV 1)	RNAV GPS LNAV 2)		Circling TERPS
C	ft - ft/SM ft	200 - 1800R/0.5V 1010	470 - 5500R/1.0V 1280	420 - 4000R/0.75V 1220		710 - 2.0V 1520
D	ft - ft/SM ft	200 - 1800R/0.5V 1010	470 - 5500R/1.0V 1280	420 - 4000R/0.75V 1220		730 - 2.25V 1540

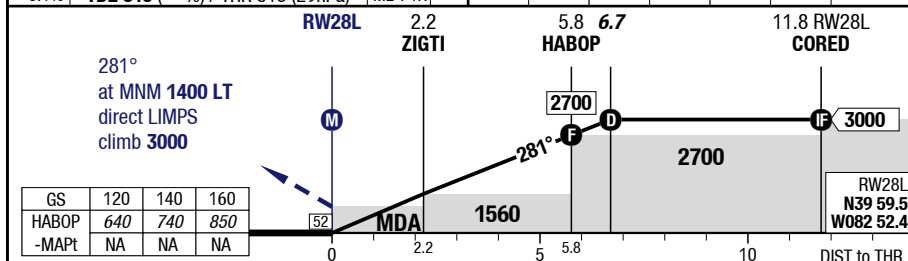
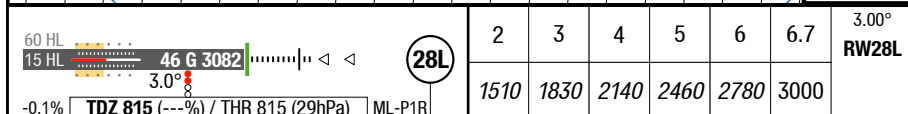
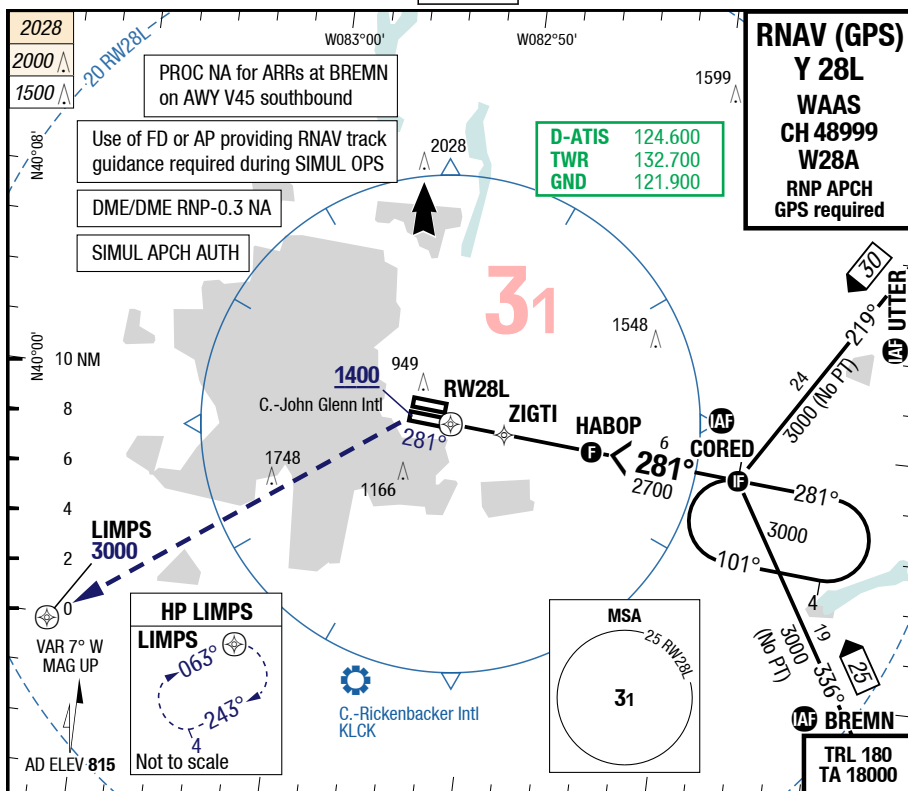
1) Uncompensated BARO VNAV NA below -18°C (0°F) or above 54°C (130°F)

2) NA during SIMUL OPS

CMH-KCMH

7-110

RNAV (GPS) Y 28L



TERPS 28L		RNAV GPS LPV	RNAV GPS VNAV 1)	RNAV GPS LNAV 2)			Circling New TERPS
C	ft - ft/SM ft	200 - 1800R/0.5V 1020	450 - 5500R/1.0V 1270	510 - 5500R/1.0V 1320			710 - 2.0V 1520
D	ft - ft/SM ft	200 - 1800R/0.5V 1020	450 - 5500R/1.0V 1270	510 - 5500R/1.0V 1320			730 - 2.75V 1540

1) Uncompensated BARO VNAV NA below -18°C (0°F) or above 54°C (130°F)

2) NA during SIMUL OPS

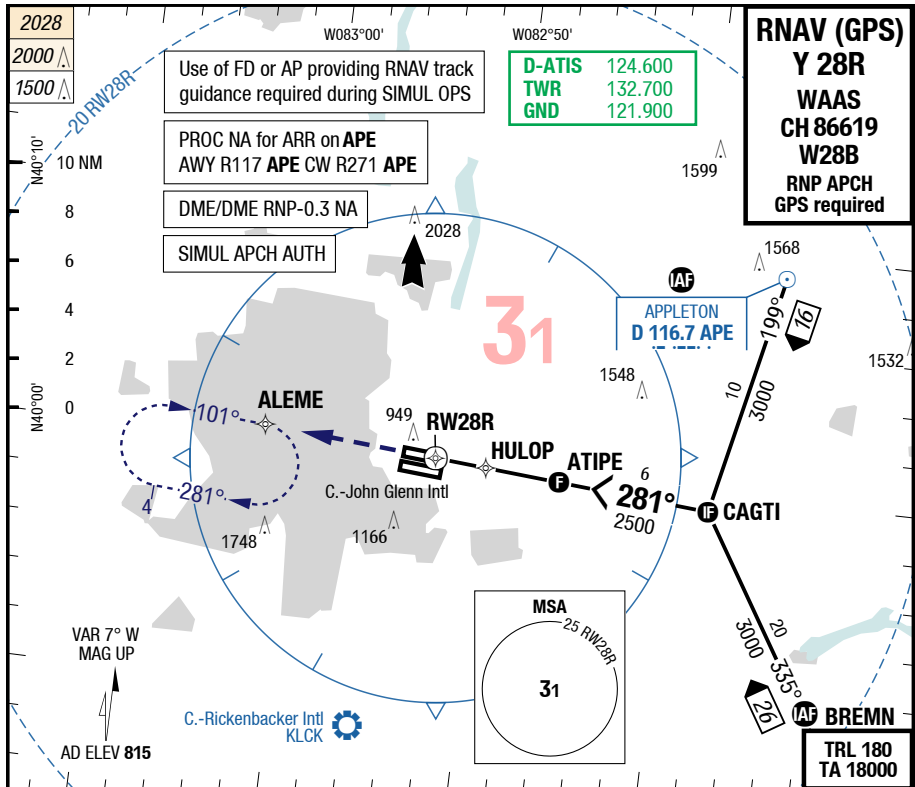
Changes: WPT LIMPS, Note, HLDG

AMDT 3D

CMH-KCMH

7-120

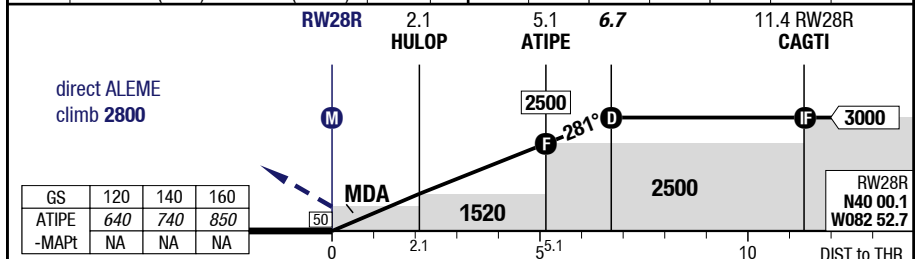
RNAV (GPS) Y 28R



60 HL 3.0° 8
46 G 2438
0.0% TDZ 813 (---%) / THR 812 (29hPa) ML-P1R

(28R)

2	3	4	5	6	6.7	3.00° RW28R
1500	1820	2140	2460	2780	3000	



28R	RNAV GPS LPV	RNAV GPS VNAV 1)	RNAV GPS LNAV 2)	Circling TERPS
C	ft - ft/SM ft 210 - 2400R/0.5V 1020	310 - 2400R/0.5V 1130	470 - 5000R/1.0V 1280	710 - 2.0V 1520
D	ft - ft/SM ft 210 - 2400R/0.5V 1020	310 - 2400R/0.5V 1130	470 - 5000R/1.0V 1280	710 - 2.25V 1520

1) Uncompensated BARO VNAV NA below -18°C (0°F) or above 54°C (130°F)
2) NA during SIMUL OPS