

10-MAY-2018

**COS-KCOS**

1-10

**A01****A01****GENERAL****Operational Hours****ATS Hours:** H24**AD OPS Hours:** Attended continuously**Airport Information****RFF:** FAA Index C / CAT 7**Fuel:** Jet A**PCN:** RWY 13/31: 48/F/G/X/T

RWY 17L/35R: 95/R/B/W/T

RWY 17R/35L: 99/F/B/X/T

**Operation****Traffic Note**

Low Level Windshear Alert System (LLWAS) in operation.

ACFT transporting hazardous cargo, contact AD 30min prior to arrival.

**TWY Restriction**

TWY A2, A3, A4, B2, B3:

Insufficient TWY corner fillets pavement for CL taxi for ACFT with wingspan above 36m / 117ft. Use judgemental oversteer at those TWYs.

GA ramp between TWY A3 and A4 CLSD to ACFT with wingspan above 41m / 135ft.

**VOR TEST FACILITY (VOT):** 110.4**Warnings**

Portions of TWYs A, B, E, F, G, M are blocked from view from TWR by obstructions.

Portions of TWY C and RWY 17R/35L are blocked from view from TWR when the infield MIL OPS surface is occupied by a C17 or C5.

When crossing RWY 17R/35L from A1 to B1 or B1 to A1, be aware you will not see A1 or B1 depending on the direction crossing until you crest RWY 17R/35L. When crossing from A1 to B1 travel NE and from B1 to A1 travel SW.

Intensive USAF student training in vicinity of Colorado Springs and Pueblo Colorado.

**BRK VOR/DME** unusable:

R305-R045 beyond 27NM below 12900ft.

R330-R045 beyond 20NM below 10400ft.

Birds in vicinity of AD.

10-MAY-2018

**COS-KCOS**

1-20

**A01****A01****ARRIVAL****Speed**

MAX IAS 250KT below 10000ft.

**Communication****COM Failure:** See CRAR and in addition;**DEBERRY**

Proceed to BRK VOR/DME.

**OZZZY**

LDG south: At ADANE join and execute ILS rwy 17L APCH.

LDG north: At ADANE fly on 174° track to DRAKE.

At DRAKE join and execute ILS rwy 35L APCH.

**Arrival Procedure****Land And Hold Short Operation (LAHSO):** These OPS include LDG and HLDG short of an intersection RWY/TWY or other predetermined points on the RWY other than RWY or TWY.

<b>LDG RWY</b>	<b>Hold Short Point (HSP)</b>	<b>Distance</b>
RWY 31	RWY 17R/35L	2271m / 7450ft
RWY 35L	RWY 13/31	3124m / 10250ft

**Non-standard GP intercept position on****RWY 17L**GP intercepts RWY 17L at *332m / 1088ft* after landing threshold.Remaining LDG DIST beyond GP is *3784m / 12413ft*.**RWY 35R**GP intercepts RWY 35R at *320m / 1049ft* after landing threshold.Remaining LDG DIST beyond GP is *3795m / 12452ft*.

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**COS-KCOS**

1-30

**A01****A01****DEPARTURE****Take-off Minima**

RWY		17L	
1+2 ENG	ft - ft/SM	0 - 5000R/1.0v	-
3+4 ENG		0 - 2400R/0.5v	-
RWY		35R	
1+2 ENG	ft - ft/SM	0 - 5000R/1.0v	MNM climb gradient 3.7% up to 7000
3+4 ENG		0 - 2400R/0.5v	SID SPRINGS: MNM climb gradient 4.7% up to 9000
RWY		35L	
1+2 ENG	ft - ft/SM	0 - 5000R/1.0v	MNM climb gradient 4.2% up to 7000
3+4 ENG		0 - 2400R/0.5v	SID SPRINGS: MNM climb gradient 4.7% up to 9000
RWY		17R	
1+2 ENG	ft - ft/SM	0 - 1.0v	-
3+4 ENG		0 - 0.5v	-
RWY		31	
1+2 ENG	ft - ft/SM	0 - 1.0v	MNM climb gradient 3.7% up to 7000
3+4 ENG		0 - 0.5v	SID SPRINGS: MNM climb gradient 4.3% up to 7300
RWY		13	
1+2 ENG	ft - ft/SM	0 - 1.0v	MNM climb gradient 4.2% up to 6400, or TKOF must occur no later than
3+4 ENG		0 - 0.5v	2000ft/610m prior to DEP

**Speed**

MAX IAS 250KT below 10000ft.

**Communication**

**COM Failure:** See CRAR and in addition;  
**SPRINGS**

**RWY 13, 17L, 17R:** If not in contact with ATC within 1min after DEP turn left. Climb to filed ALT direct via BRK VOR/DME, thence via filed/assigned route.

**RWY 31, 35L, 35R:** If not in contact with ATC within 1min after DEP turn right. Climb to filed ALT direct via BRK VOR/DME, thence via filed/assigned route.

ACFT filed **V108** westbound: continue climb in HLDG pattern to cross BRK VOR/DME at or above 14000ft.

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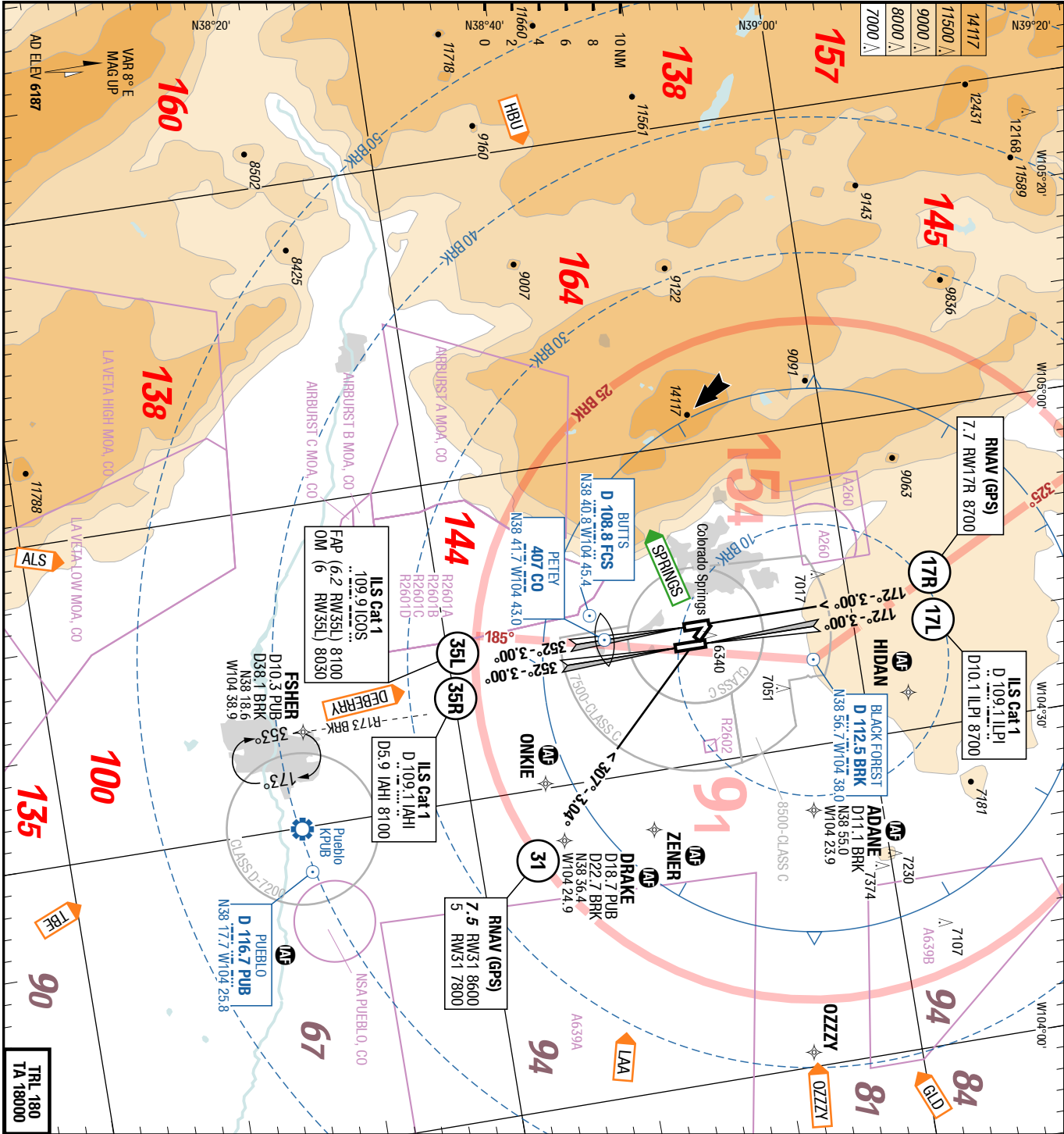
2-10

AFC

AFC

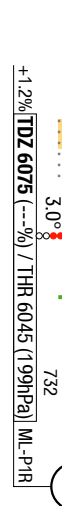
AFC

AFC



ATIS	125.000	ASOS
Springs APP	124.000	
Springs DEP	120.600	
Springs TWR	124.000	
UNICOM	119.900	
Springs GND	133.150	
Denver RDO	122.950	
DLV	121.700	
	122.250	
	134.450	

Landing RWY system:



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3-20

AGC

AGC

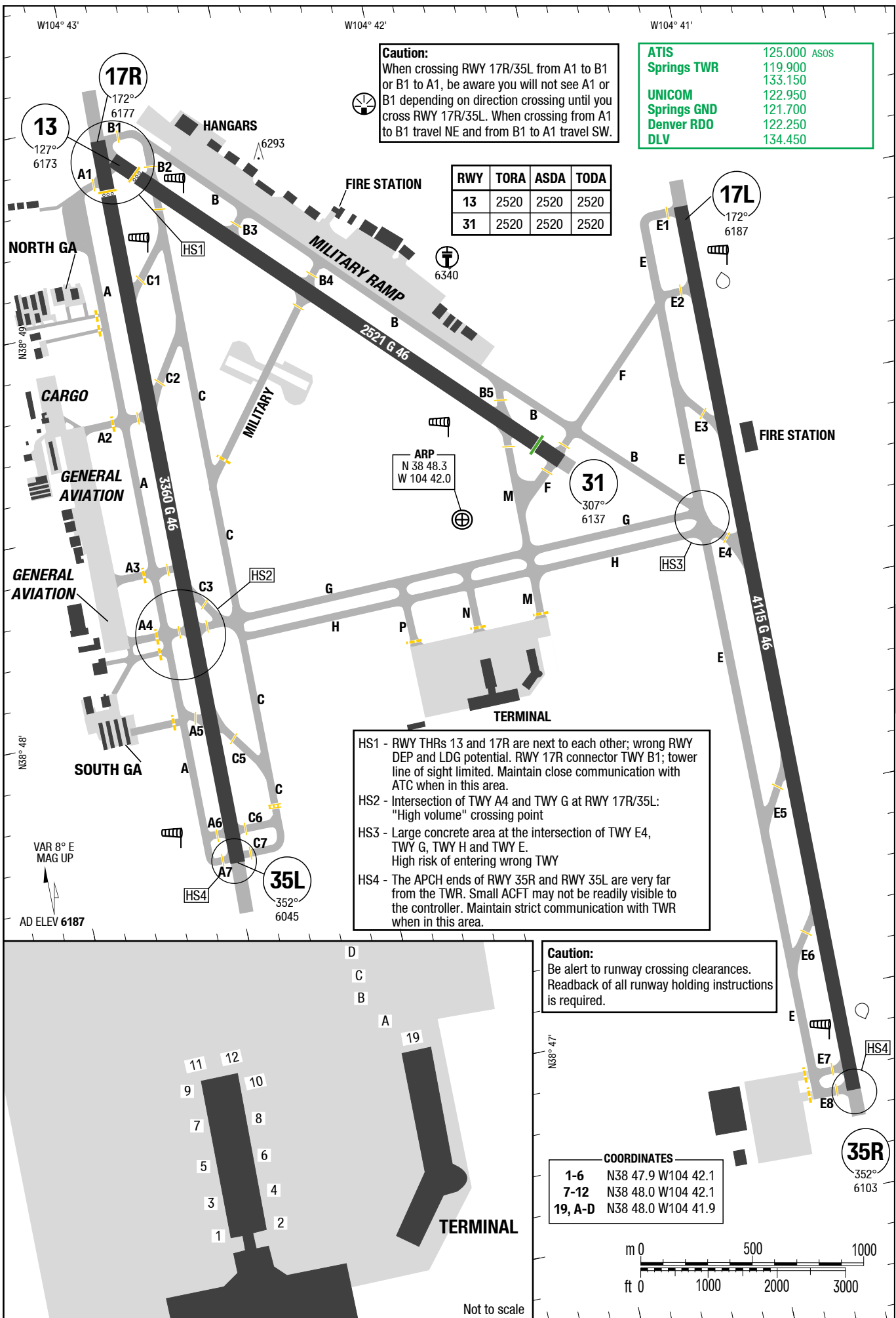
AGC

AGC

ATIS	125.000	ASOS
Springs TWR	119.900	
	133.150	
UNICOM	122.950	
Springs GND	121.700	
Denver RDO	122.250	
DLV	134.450	

**Caution:**  
When crossing RWY 17R/35L from A1 to B1 or B1 to A1, be aware you will not see A1 or B1 depending on direction crossing until you cross RWY 17R/35L. When crossing from A1 to B1 travel NE and from B1 to A1 travel SW.

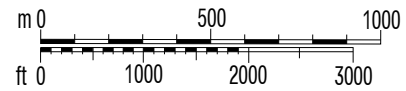
RWY	TORA	ASDA	TODA
13	2520	2520	2520
31	2520	2520	2520



HS1 - RWY THR 13 and 17R are next to each other; wrong RWY DEP and LDG potential. RWY 17R connector TWY B1; tower line of sight limited. Maintain close communication with ATC when in this area.  
HS2 - Intersection of TWY A4 and TWY G at RWY 17R/35L: "High volume" crossing point  
HS3 - Large concrete area at the intersection of TWY E4, TWY G, TWY H and TWY E. High risk of entering wrong TWY  
HS4 - The APCH ends of RWY 35R and RWY 35L are very far from the TWR. Small ACFT may not be readily visible to the controller. Maintain strict communication with TWR when in this area.

**Caution:**  
Be alert to runway crossing clearances. Readback of all runway holding instructions is required.

COORDINATES	
1-6	N38 47.9 W104 42.1
7-12	N38 48.0 W104 42.1
19, A-D	N38 48.0 W104 41.9



Not to scale

Changes: hot spots

## COS-KCOS



4-10

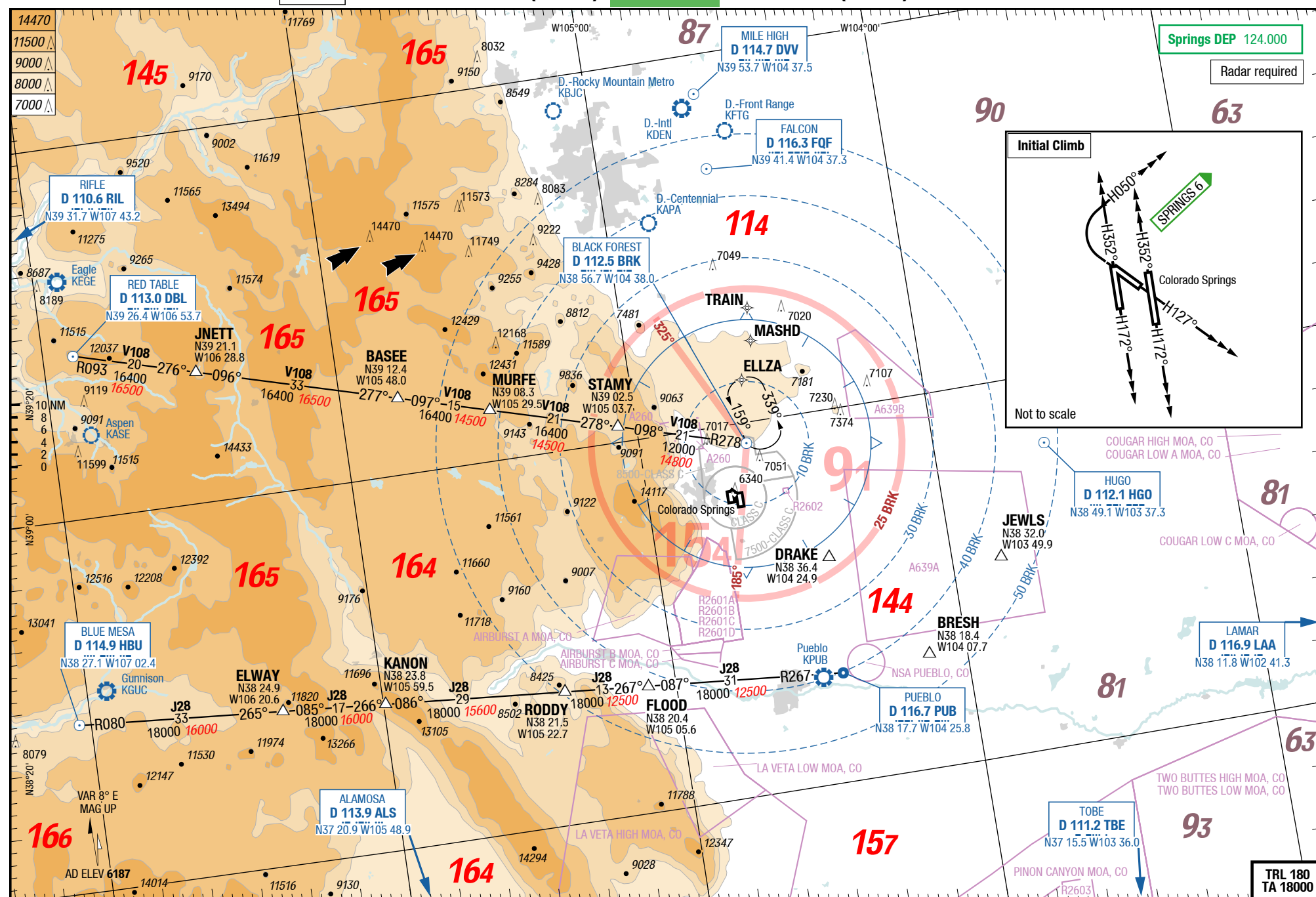
## SPRINGS 6 (COS 6)

SID

SID

NIL

## SPRINGS 6 (COS 6)



Changes: Track, ASP, SUAs, PROC renumbered. Editorial

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22-MAR-2018

COS-KCOS

5-10

SPRINGS 6 (COS 6)

SIDPT

**SPRINGS 6**

RWYs 13 (127°) / 17L/R (172°) / 31 (307°) / 35L/R (352°)

DESIGNATOR	ROUTING	ALTITUDES
<b>SPRINGS 6</b> <b>COS 6</b> <b>124.000</b> ①		initial climb 10000
<b>RWY 13</b>	RWY HDG - expect radar vectors to assigned/ filed route	
<b>RWYs 17L/17R</b>	RWY HDG - expect radar vectors to assigned/ filed route	
<b>RWY 31</b>	<b>RT</b> HDG 050° - expect radar vectors to assigned/ filed route	
<b>RWYs 35L/35R</b>	RWY HDG - expect radar vectors to assigned/ filed route	

① Expect clearance to filed altitude 10 MIN after departure.

Obstacle Departure	
RWY	Routing
13, 17L/R	LT climb direct <b>BRK</b> . Climb in <b>BRK</b> HLDG (NW, 159° INBD, <b>LT</b> ) to cross <b>BRK</b> at MNM MEA/MCA for route of flight.
31	Climb HDG 307° - at <b>7000 RT</b> direct <b>BRK</b> . Climb in <b>BRK</b> HLDG (NW, 159° INBD, <b>LT</b> ) to cross <b>BRK</b> at MNM MEA/MCA for route of flight.
35L	RT climb direct <b>BRK</b> . Climb in <b>BRK</b> HLDG (NW, 159° INBD, <b>LT</b> ) to cross <b>BRK</b> at MNM MEA/MCA for route of flight.
35R	Climb HDG 352° - at <b>7000 RT</b> direct <b>BRK</b> . Climb in <b>BRK</b> HLDG (NW, 159° INBD, <b>LT</b> ) to cross <b>BRK</b> at MNM MEA/MCA for route of flight.
RWY	Notes
13	Radar antenna 4979ft from DER, 1640ft left of centerline, 107ft AGL/6292ft MSL.
17L	RWY edge light (REIL) 25ft from DER, 115ft left and right of centerline, 3ft AGL/6104ft MSL.
35L	RWY edge light (REIL) 39ft from DER, 115ft right of centerline, 2ft AGL/6178ft MSL. Tree 5898ft from DER, 1773ft right of centerline, 50ft AGL/6338ft MSL.



Effective 17-AUG-2017

10-AUG-2017

COS-KCOS

United States Colorado Springs City of Colorado Springs Municipal

DEBERRY 3 (DBRY3)

6-10

OZZZY 4 RNAV

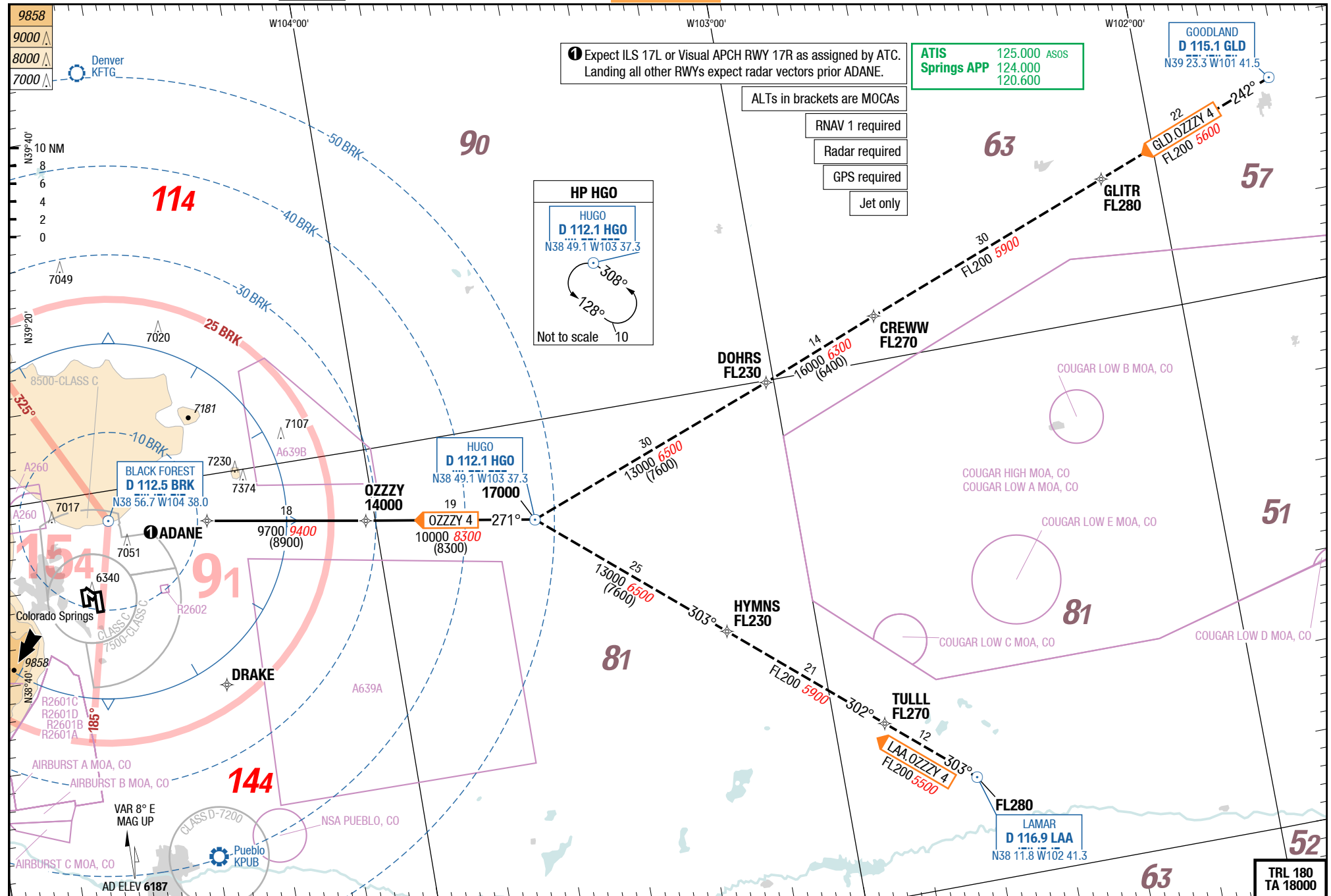
STAR

STAR

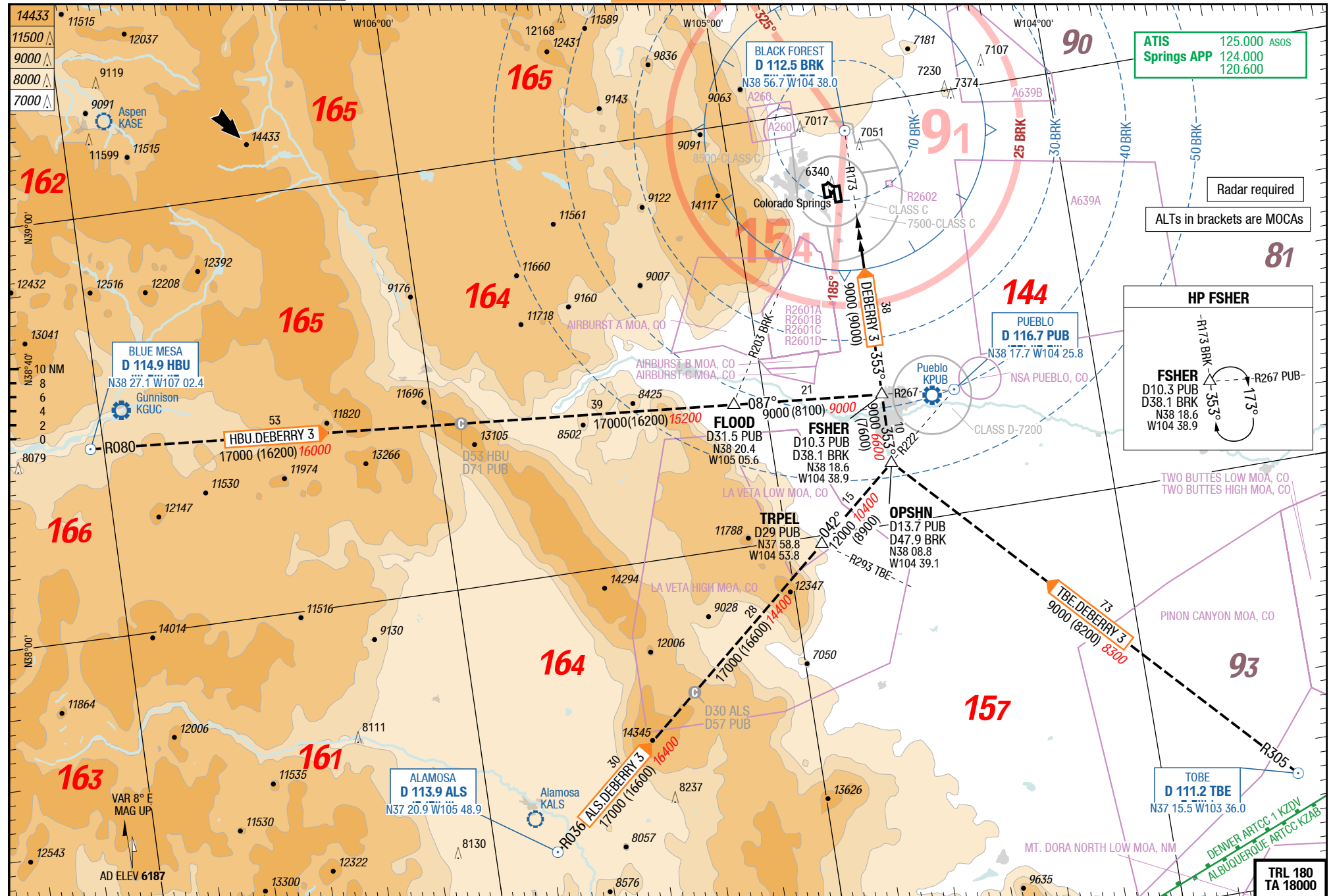
City of Colorado Springs Municipal Colorado Springs United States

DEBERRY 3 (DBRY3)

OZZZY 4 RNAV



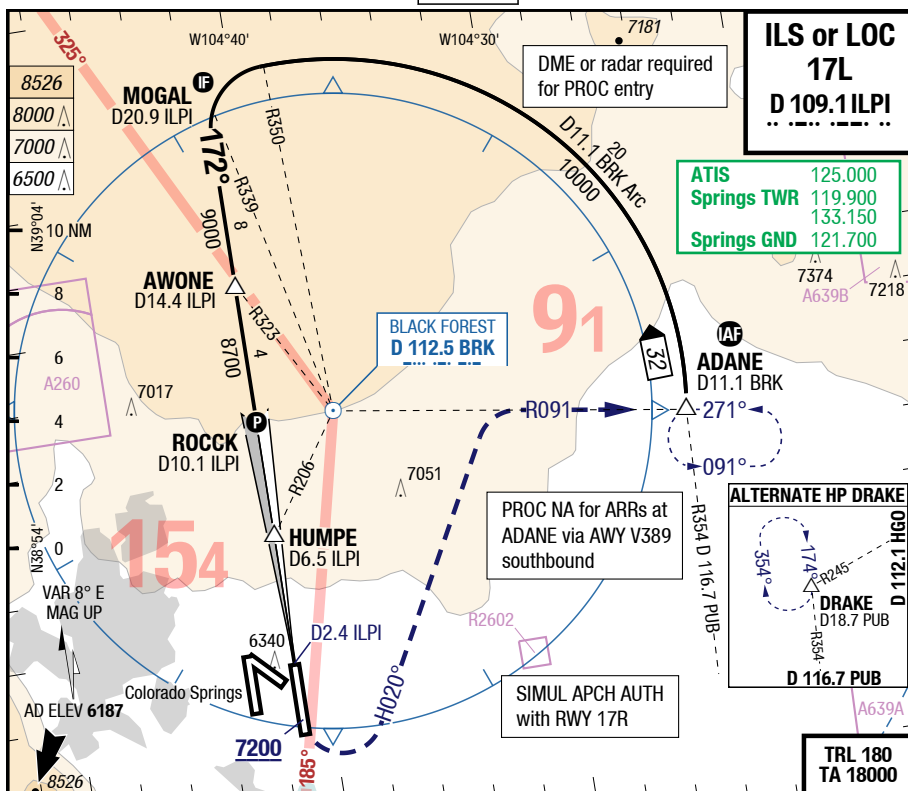
Changes: PROC renumbered, OBST



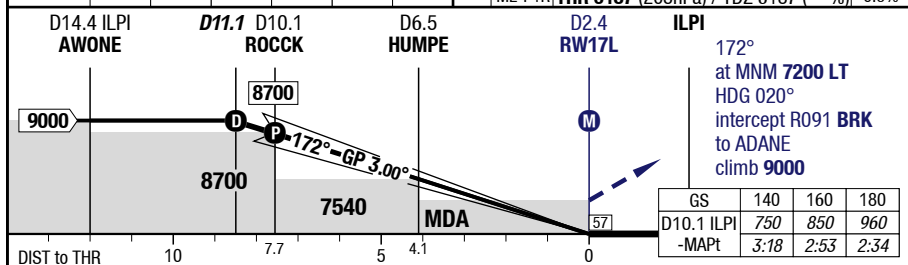
## COS-KCOS

7-10

## ILS or LOC 17L



LOC 3.01° D ILPI	11.1	9	8	7	6	5	<div><div><div>17L</div><div><div><div>▷▷</div><div>     </div><div>732</div></div><div><div>3.0°</div><div>60 HL</div></div></div><div><div>4115 G 46</div><div>15 HL</div></div></div></div>
	9000	8340	8030	7710	7390	7070	



17L		Cat 1	LOC	LOC wo HUMPE		Circling N <sub>EW</sub> TERPS	Circling <sup>1)</sup> N <sub>EW</sub> TERPS
C	ft - ft/SM ft	200 - 1800R/0.5V <b>6390</b>	840 - 2.0V <b>7020</b>	1360 - 3.0V <b>7540</b>		860 - 2.5V <b>7040</b>	1360 - 3.0V <b>7540</b>
D	ft - ft/SM ft	200 - 1800R/0.5V <b>6390</b>	840 - 2.0V <b>7020</b>	1360 - 3.0V <b>7540</b>		1080 - 2.5V <b>7260</b>	1360 - 3.0V <b>7540</b>

1) wo HUMPE

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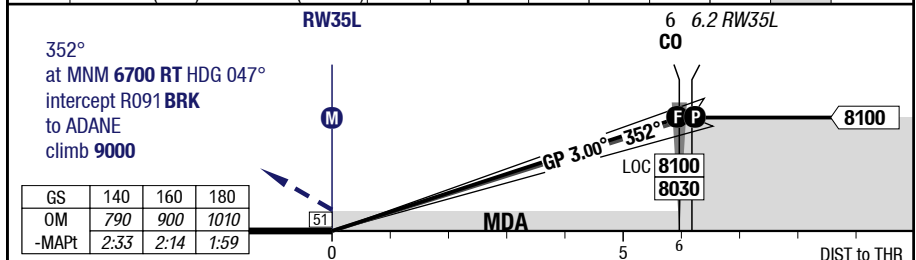
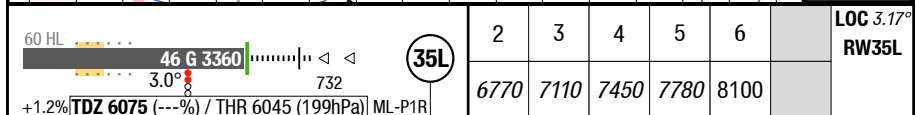
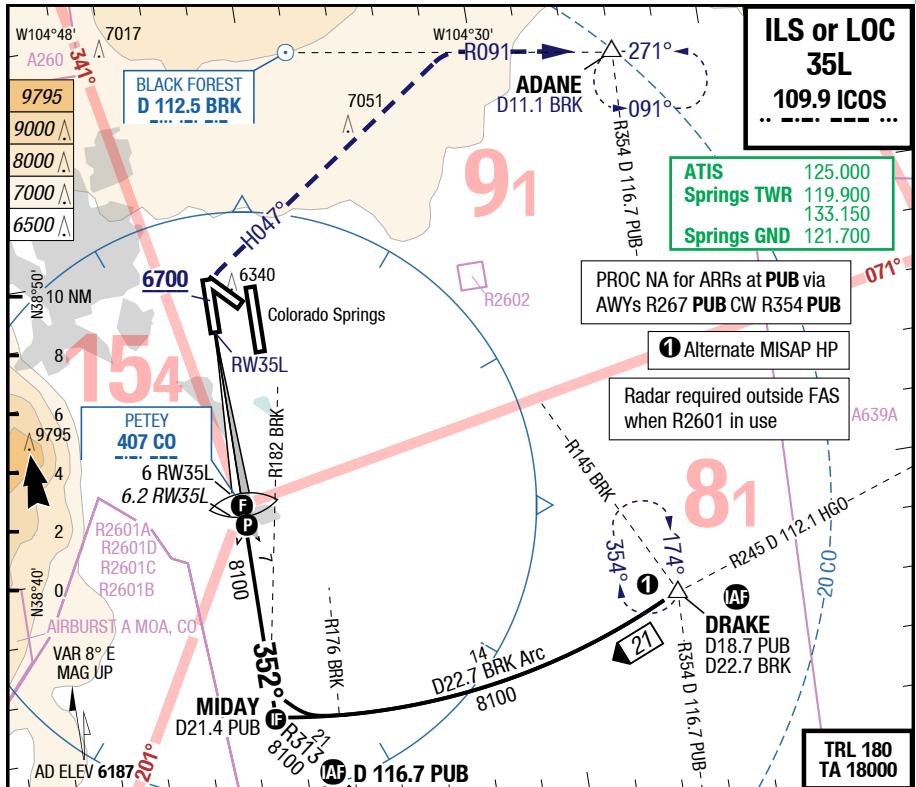
25-JAN-2018

COS-KCOS

7-20

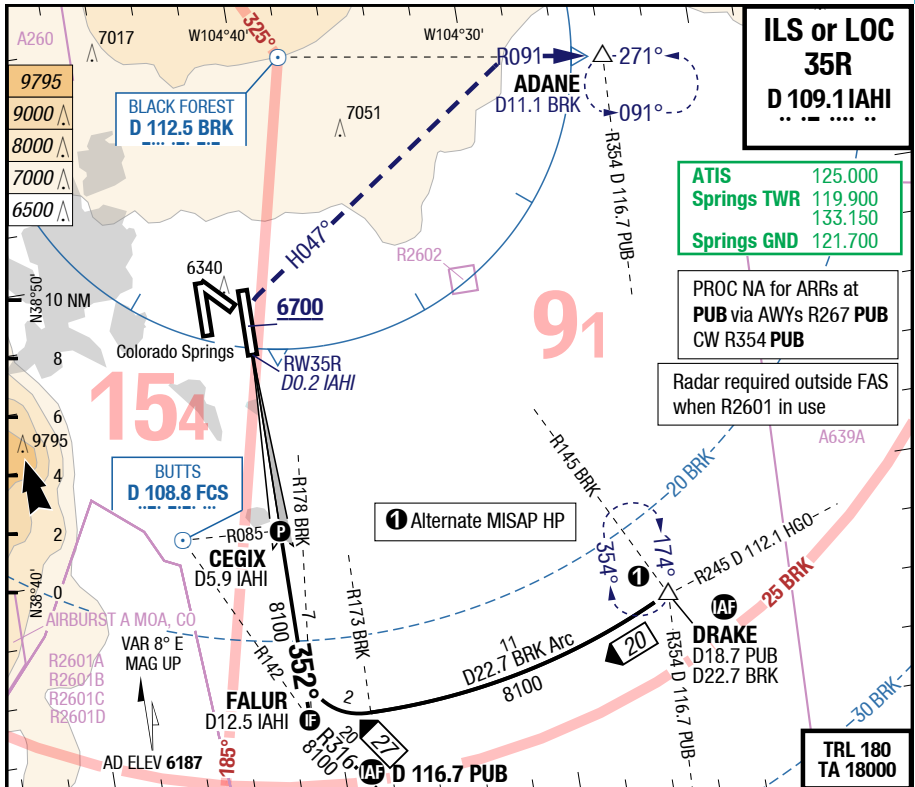
ILS or LOC 35L

IAC

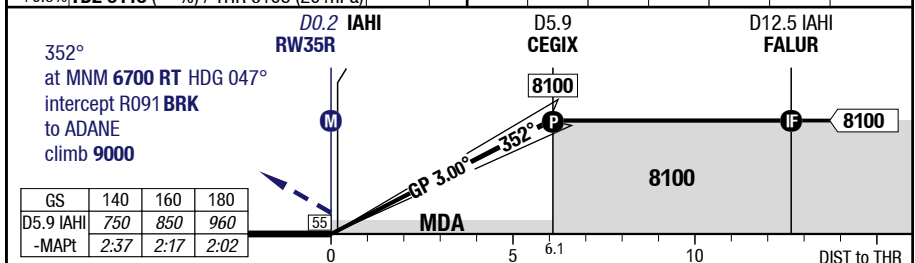


35L		Cat 1	LOC				Circling
TERPS		1)					Ne TERPS
C	ft - ft/SM ft	200 - 1800R/0.5V 6280	470 - 5000R/1.0V 6540				860 - 2.5V 7040
D	ft - ft/SM ft	200 - 1800R/0.5V 6280	470 - 5000R/1.0V 6540				1080 - 3.0V 7260

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



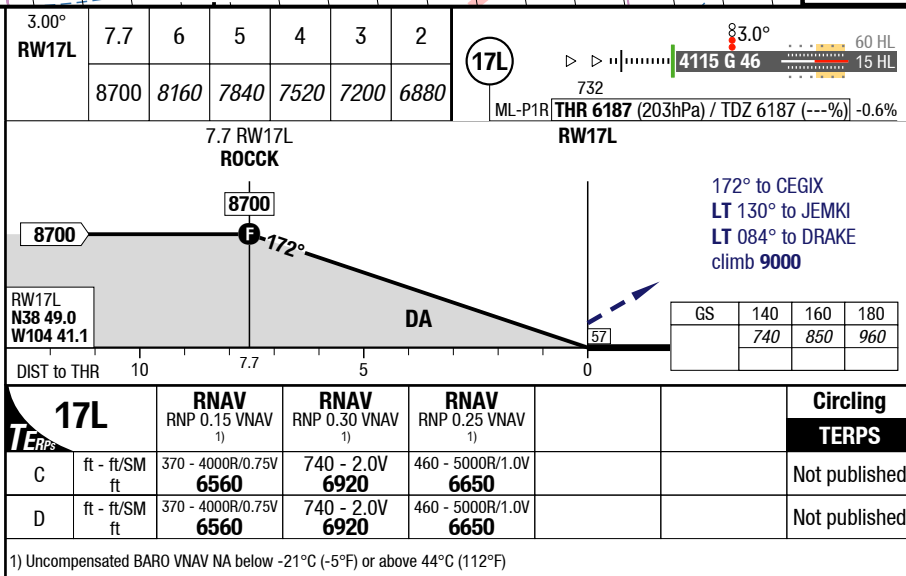
60 HL	3.0°8	1	2	3	4	5	5.9	LOC 3.01°
15 HL	46 G 4115	6530	6850	7170	7490	7810	8100	D IAH
+0.6%TDZ 6118 (---%) / THR 6103 (201hPa)								



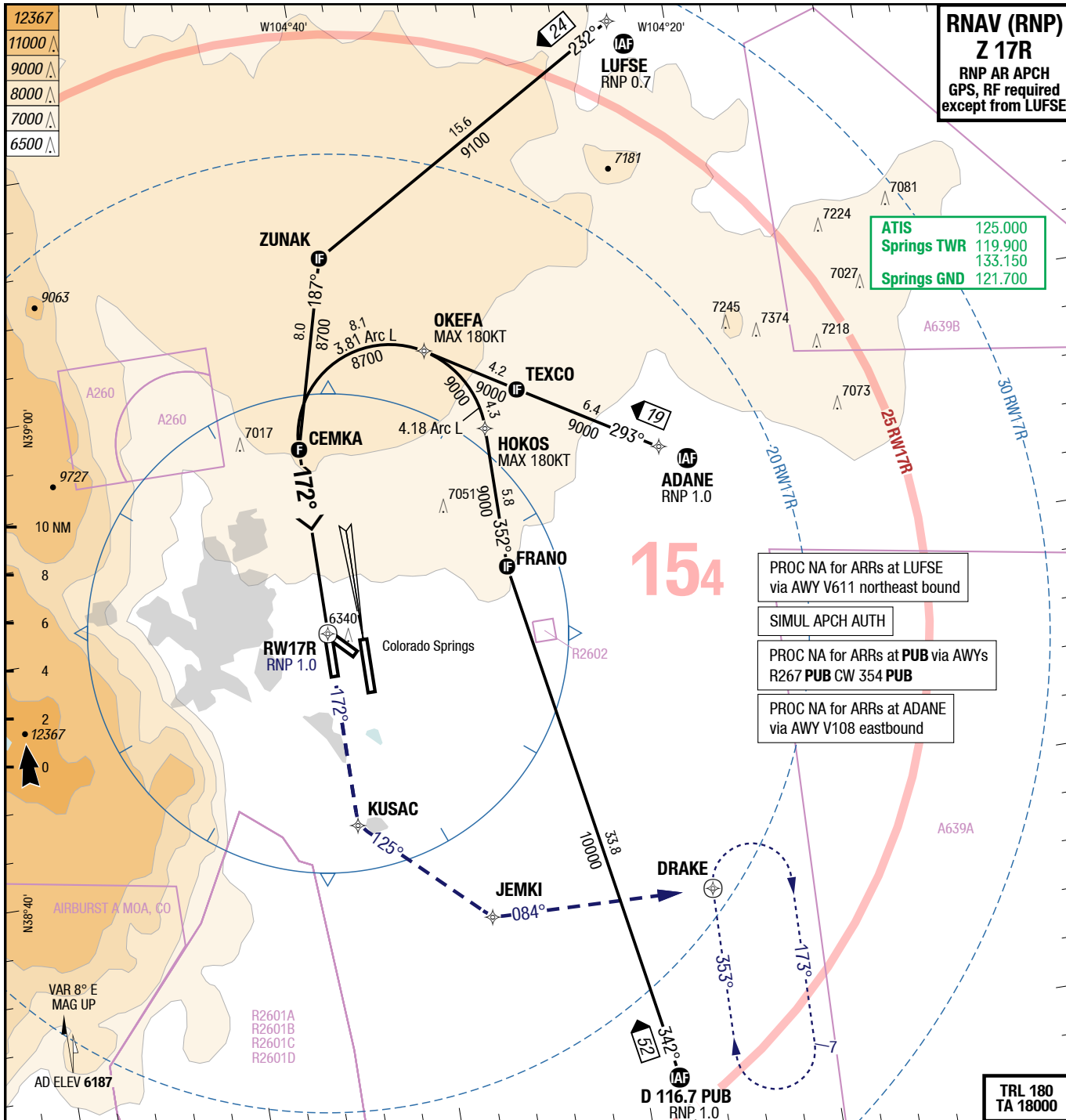
35R	Cat 1	LOC	Circling
TERPS			TERPS
C	ft - ft/SM ft	200 - 4000R/0.75V 6320	310 - 4500R/0.88V 6420
D	ft - ft/SM ft	200 - 4000R/0.75V 6320	310 - 4500R/0.88V 6420



**RNAV (RNP) Z 17L**



AMDT 2A



3.00°

RW17R

7.8

6

5

4

3

2

17R

8.3.0°

3360 G 46

60 HL

THR 6177 (203hPa) / TDZ 6177 (---%) -1.2%

7.8 RW17R

CEMKA

8700

8700

172°

DA

55

172° to KUSAC

LT 125° to JEMKI

LT 084° to DRAKE

climb 9000

RW17R

N38 49.4

W104 43.0

DIST to THR

7.8

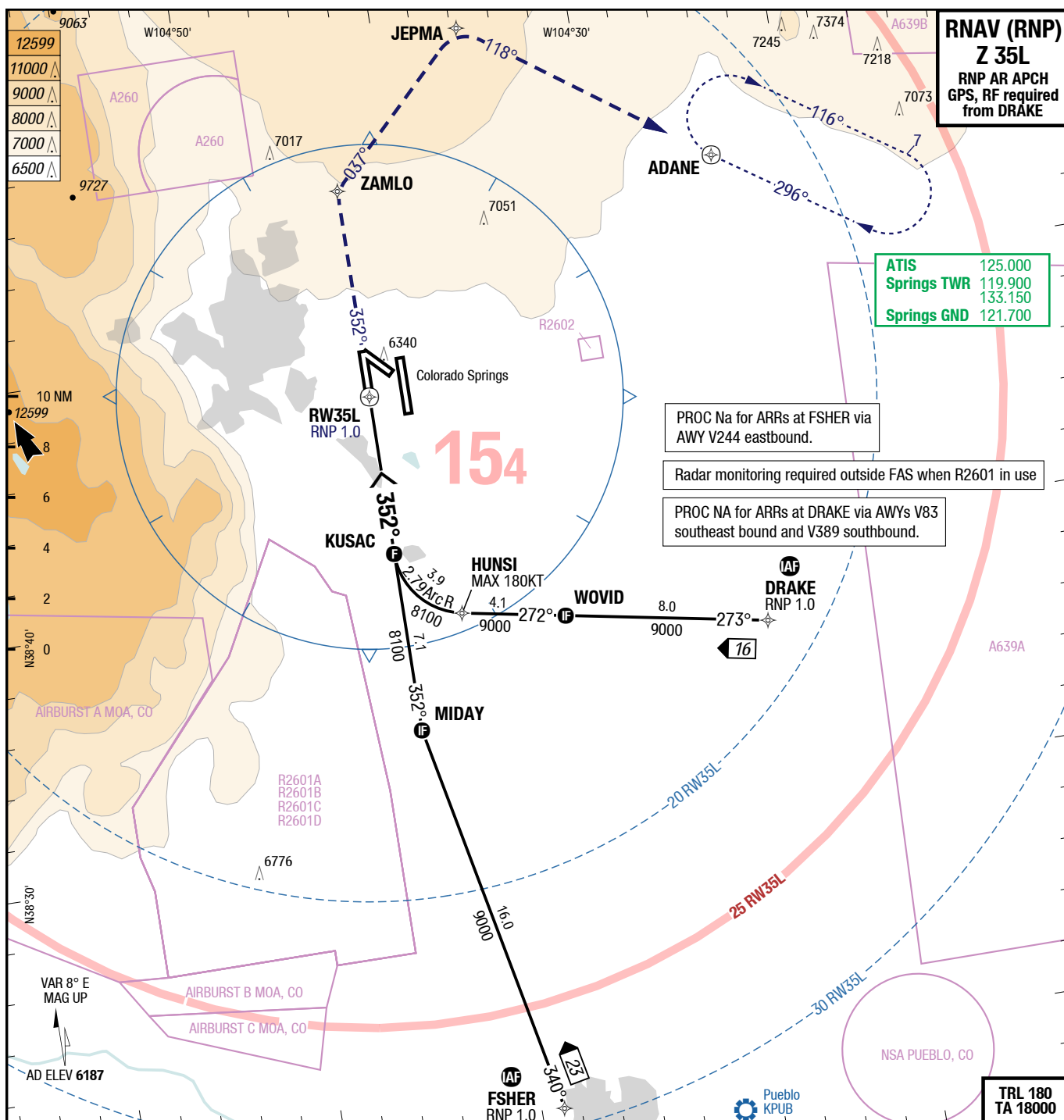
5

0

GS	140	160	180
	740	850	960

17R		RNAV	RNAV					Circling
TERPS		RNP 0.22 VNAV	RNP 0.30 VNAV					TERPS
C	ft - ft/SM ft	490 - 1.75V 6660	730 - 2.5V 6910					Not published
D	ft - ft/SM ft	490 - 1.75V 6660	730 - 2.5V 6910					Not published

1) Uncompensated BARO VNAV NA below -21°C (-5°F) or above 45°C (113°F)



60 HL

46 G 3360

3.0°

732

+1.2% TDZ 6075 (---%) / THR 6045 (199hPa) ML-P1R

35L

1 2 3 4 5 6.3 3.00° RW35L

6420 6740 7060 7380 7700 8100

6.3 RW35L KUSAC

352° to ZAMLO  
RT 037° to JEPMA  
RT 118° to ADANE  
climb 9000

8100

8100

352°

DA

GS 140 160 180

740 850 960

55

0 5 6.3

DIST TO THR

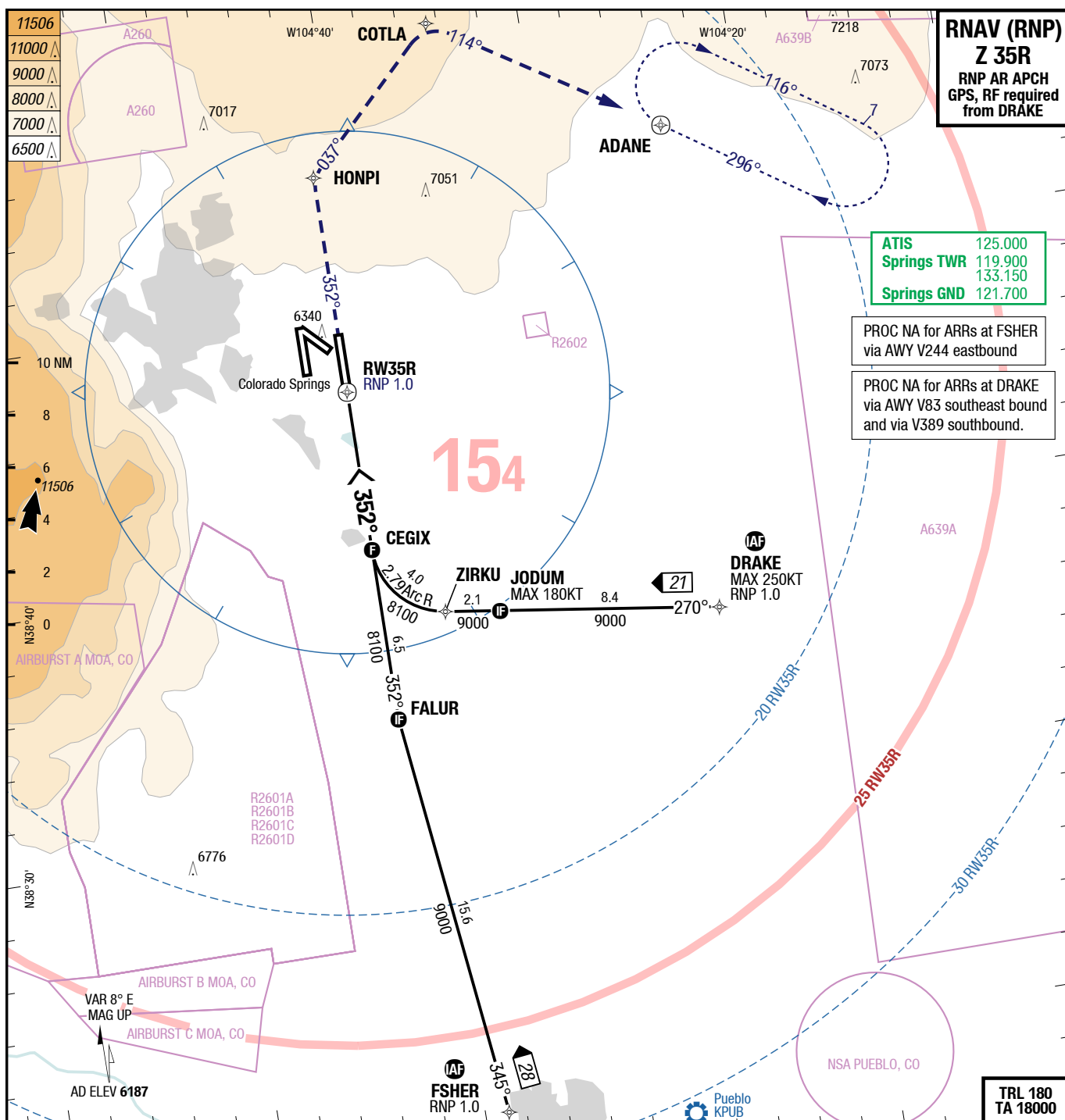
RW35L N38 47.6 W104 43.0

	GS	140	160	180
		740	850	960

	35L	RNAV RNP 0.15 VNAV 1)	RNAV RNP 0.15 VNAV APL U/S 1)	RNAV RNP 0.30 VNAV 1)			Circling TERPS
C	ft - ft/SM ft	300 - 3000R/0.63V 6380	300 - 5000R/1.0V 6380	360 - 4000R/0.75V 6430			Not published
D	ft - ft/SM ft	300 - 3000R/0.63V 6380	300 - 5000R/1.0V 6380	360 - 4000R/0.75V 6430			Not published

1) Uncompensated BARO VNAV NA below -21°C (-5°F) or above 45°C (113°F)





3.00° RW35R

60 HL  
15 HL  
46 G 4115

+0.6% TDZ 6118 (---%) / THR 6103 (201hPa)

35R

352° to HONPI  
RT 037° to COTLA  
RT 114° to ADANE  
climb 9000

DA 8100

6.1

DIST to THR

GS	140	160	180
	740	850	960

**35R**

**RNAV**  
RNP 0.30 VNAV  
1)

**Circling**  
**TERPS**

	ft - ft/SM ft	350 - 6000R/1.25V <b>6470</b>
C		
D	ft - ft/SM ft	350 - 6000R/1.25V <b>6470</b>

860 - 2.5V  
**7040**

1080 - 3.0V  
**7260**

1) Uncompensated BARO VNAV NA below -21°C (-5°F) or above 45°C (113°F)

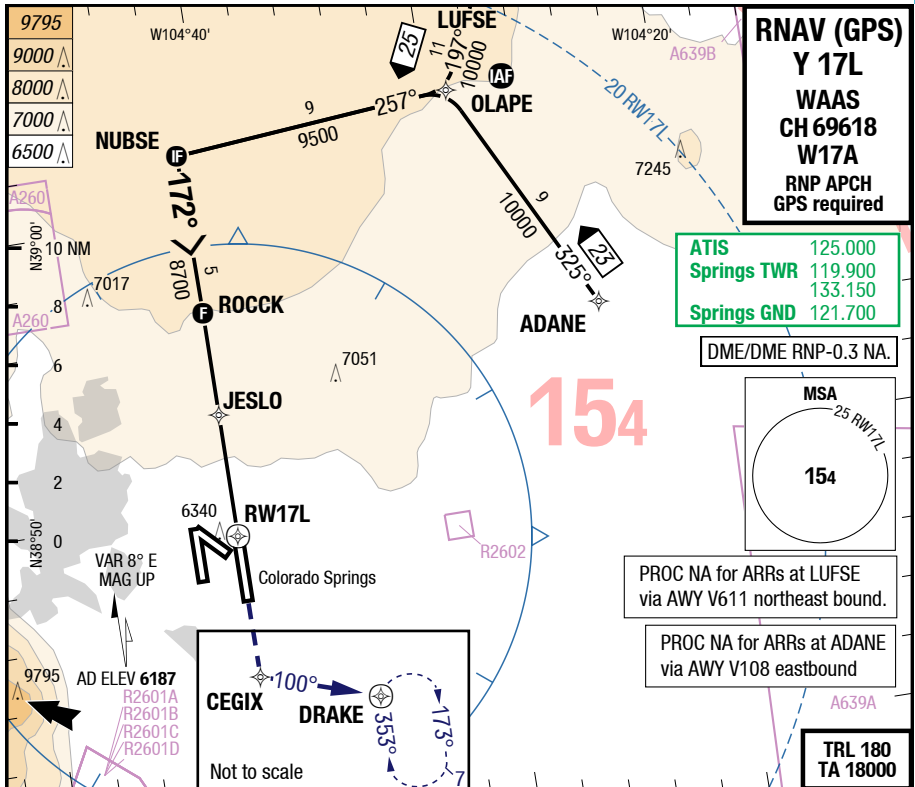
25-JAN-2018

COS-KCOS

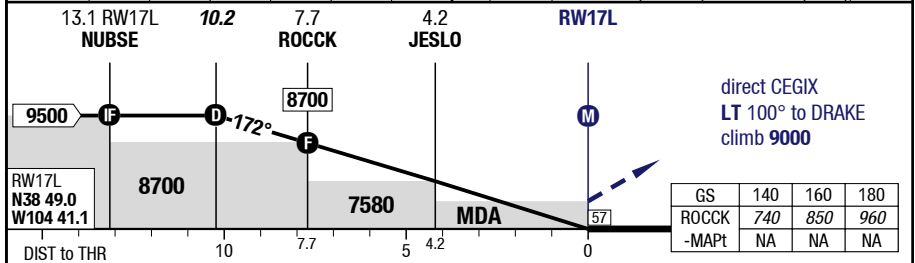
7-90

RNAV (GPS) Y 17L

IAC



3.00° <b>RW17L</b>	10.2	10	8	7	6	4	83.0°	60 HL
	9500	9430	8800	8480	8160	7520	4115 G 46	15 HL
							732	
							ML-P1R	



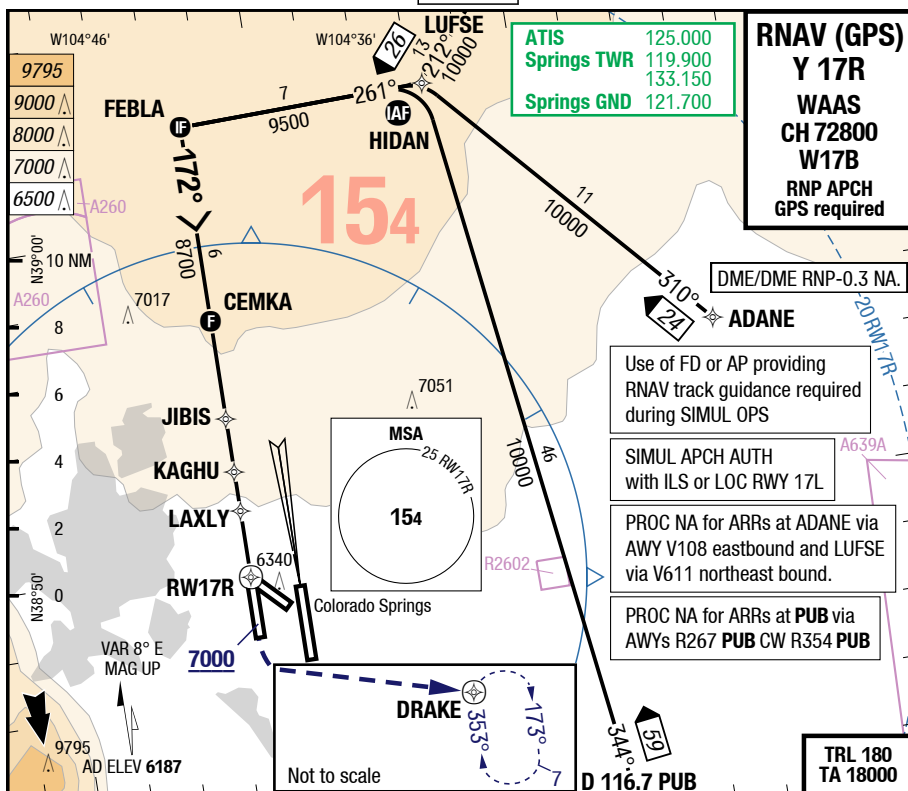
TERPS	17L	RNAV GPS LPV	RNAV GPS VNAV 1)	RNAV GPS LNAV	RNAV GPS LNAV APL U/S	Circling Ne TERPS
C	ft - ft/SM ft	200 - 1800R/0.5V <b>6390</b>	420 - 4500R/0.88V <b>6610</b>	820 - 2.0V <b>7000</b>	820 - 2.5V <b>7000</b>	860 - 2.5V <b>7040</b>
D	ft - ft/SM ft	200 - 1800R/0.5V <b>6390</b>	420 - 4500R/0.88V <b>6610</b>	820 - 2.0V <b>7000</b>	820 - 2.5V <b>7000</b>	1080 - 3.0V <b>7260</b>

1) Uncompensated BARO VNAV NA below -21°C (-5°F) or above 44°C (112°F)

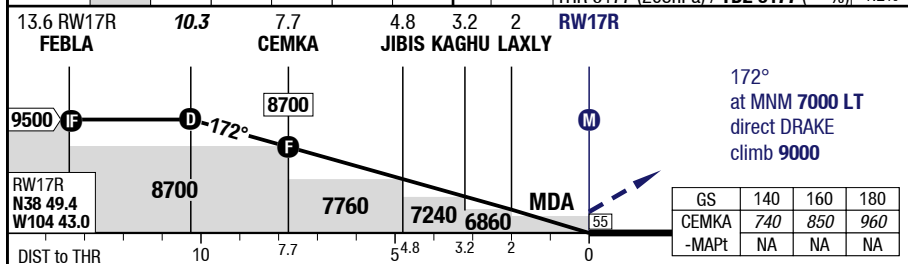
## COS-KCOS

**7-100**

## RNAV (GPS) Y 17R



3.00° <b>RW17R</b>		10.3	9	7	5	3	
		9500	9100	8460	7830	7190	



17R		RNAV GPS LPV	RNAV GPS VNAV 1)	RNAV GPS LNAV 2)		Circling TERPS
C	ft - ft/SM ft	200 - 4000R/0.75V <b>6380</b>	580 - 2.0V <b>6760</b>	510 - 1.5V <b>6680</b>		860 - 2.5V <b>7040</b>
D	ft - ft/SM ft	200 - 4000R/0.75V <b>6380</b>	580 - 2.0V <b>6760</b>	510 - 1.5V <b>6680</b>		1080 - 3.0V <b>7260</b>

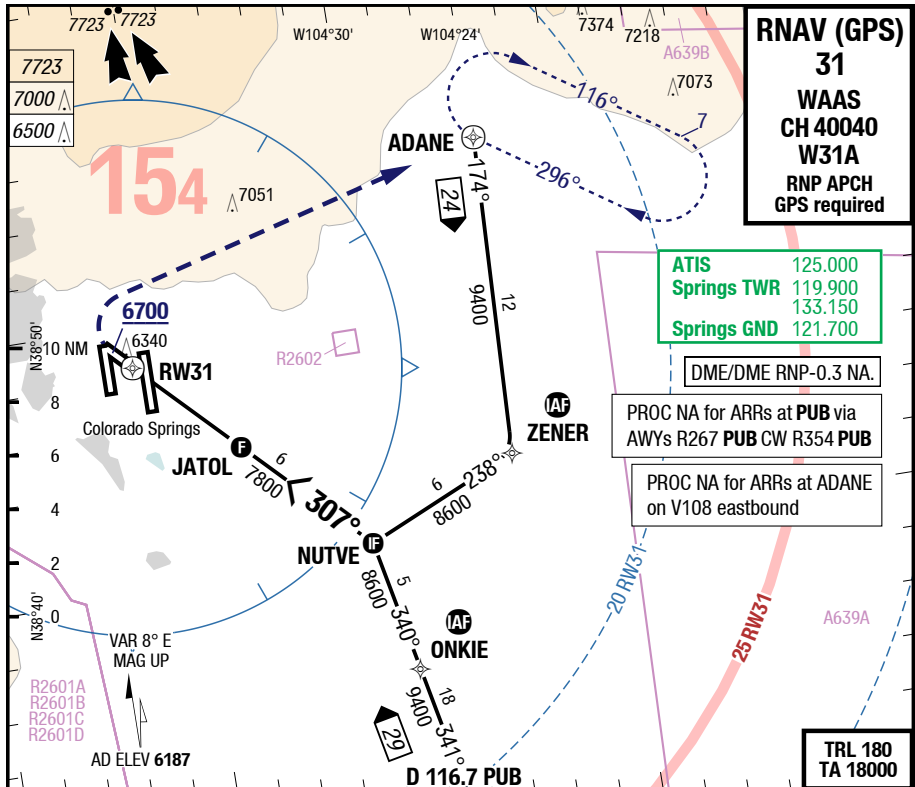
1) Uncompensated BARO VNAV NA below -21°C (-5°F) or above 54°C (130°F)  
2) NA during SIM II OPS

25-JAN-2018

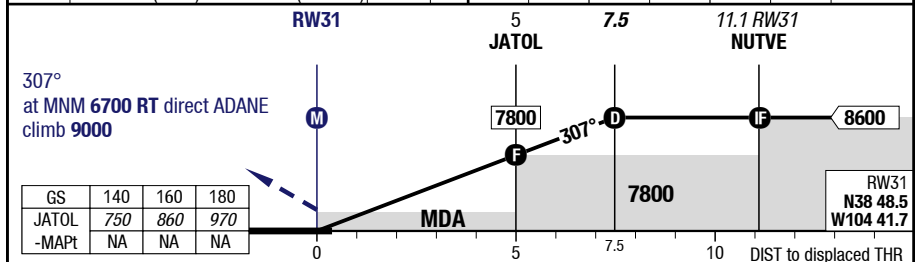
COS-KCOS

7-110

RNAV (GPS) 31



2	3	4	6	7	7.5	3.04°
6840	7160	7480	8130	8450	8600	RW31

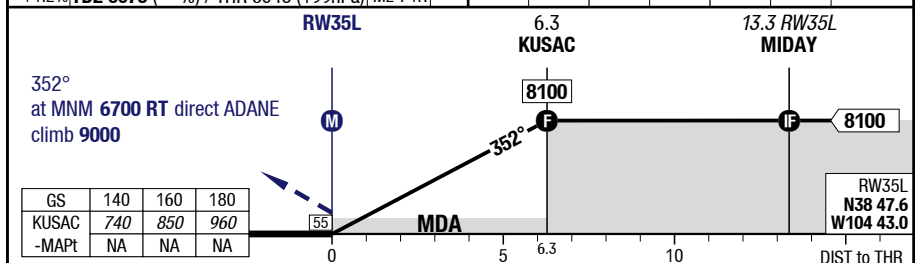
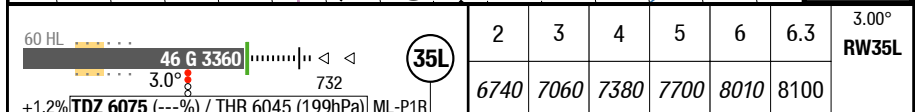
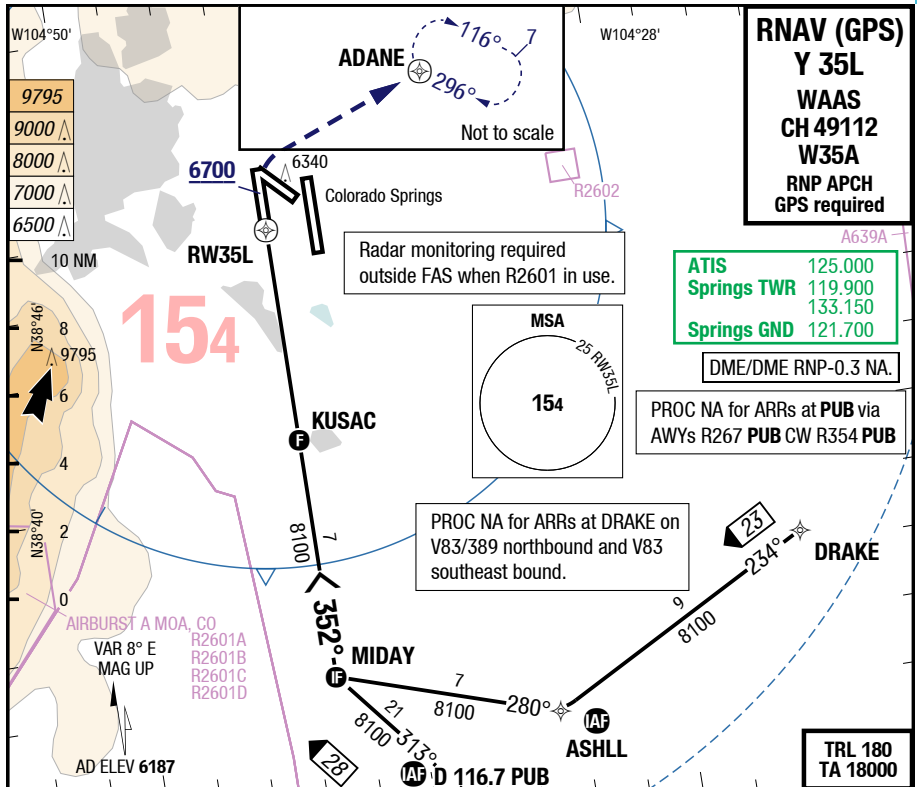


31	RNAV GPS LP	RNAV GPS LNAV				Circling TERPS
C	ft - ft/SM ft	290 - 0.88V 6440	410 - 1.25V 6560			860 - 2.5V 7040
D	ft - ft/SM ft	290 - 0.88V 6440	410 - 1.25V 6560			1080 - 3.0V 7260

## COS-KCOS

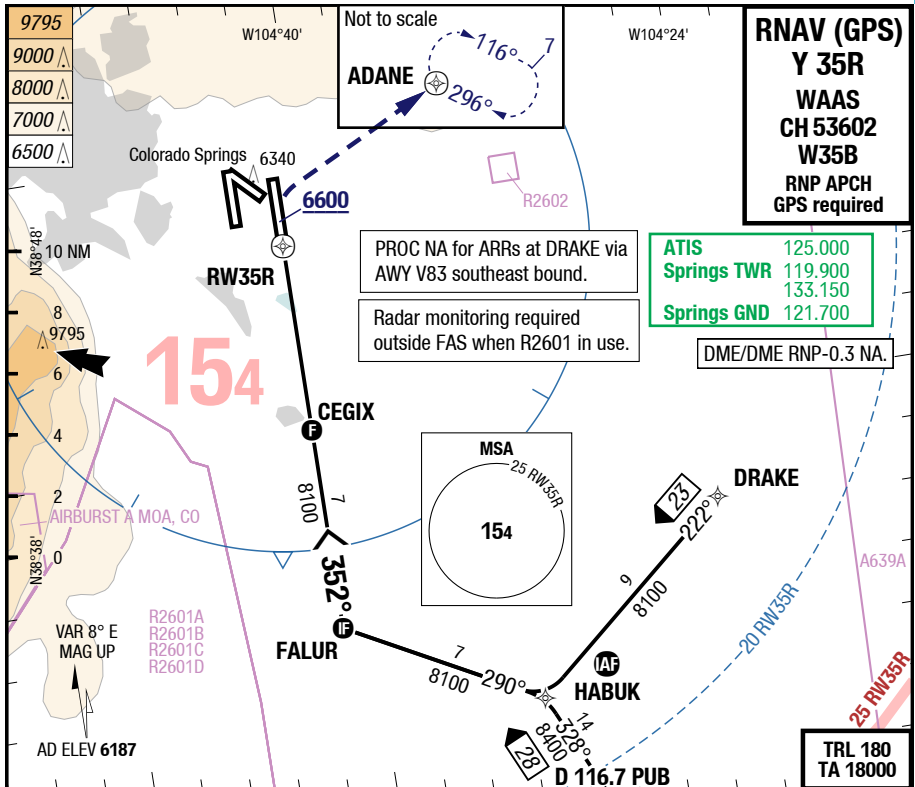
**7-120**

## RNAV (GPS) Y 35L

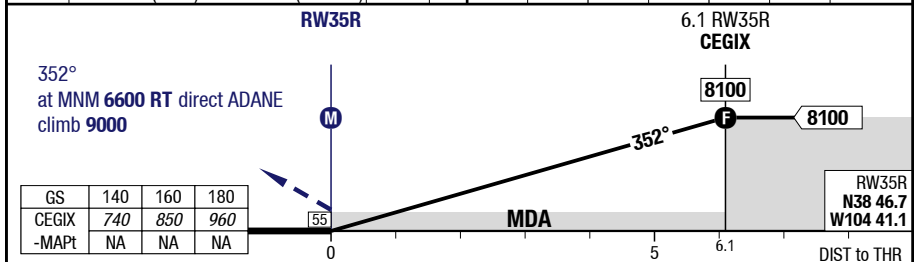


<b>35L</b>		<b>RNAV GPS</b> LPV 1)	<b>RNAV GPS</b> VNAV 2)	<b>RNAV GPS</b> LNAV			<b>Circling</b> <b>TERPS</b>
<b>C</b>	ft - ft/SM ft	200 - 1800R/0.5V <b>6280</b>	310 - 3000R/0.63V <b>6380</b>	370 - 3500R/0.63V <b>6440</b>			860 - 2.5V <b>7040</b>
<b>D</b>	ft - ft/SM ft	200 - 1800R/0.5V <b>6280</b>	310 - 3000R/0.63V <b>6380</b>	370 - 3500R/0.63V <b>6440</b>			1080 - 3.0V <b>7260</b>

1) FD or AP or HGS to DA required, else use 2400ft or 0.5SM  
2) Uncompensated BARO VNAV NA below -21°C (-5°F) or above 54°C (130°F)



60 HL	3.0°	8	2	3	4	5	6	6.1	3.00°
15 HL	46 G	4115	6800	7120	7440	7750	8070	8100	RW35R
+0.6%TDZ 6118 (---%) / THR 6103 (201hPa)									



35R		RNAV GPS LPV	RNAV GPS VNAV 1)	RNAV GPS LNAV			Circling TERPS
C	ft - ft/SM ft	200 - 4000R/0.75V 6320	290 - 4500R/0.88V 6400	390 - 6000R/1.25V 6500			860 - 2.5V 7040
D	ft - ft/SM ft	200 - 4000R/0.75V 6320	290 - 4500R/0.88V 6400	390 - 6000R/1.25V 6500			1080 - 3.0V 7260

1) Uncompensated BARO VNAV NA below -21°C (-5°F) or above 39°C (103°F)

## COS-KCOS

**7-150**

## NDB 35L

