

## GENERAL

## Operational Hours

**ATS Hours:** TWR 1415-0700±

**AD OPS Hours:** Attended continuously

## Airport Information

**RFF:** FAA Index C / CAT 7

**Fuel:** JET A

**PCN:** RWY 02L/20R: 89/F/B/X/T, RWY 02R/20L: 72/F/B/X/T

## Operation

## Traffic Note

Limited Aviation Weather Reporting Station (LAWRS) in operation 1400-0700±.

RWY and APCH lights are turned off when TWR CLSD, thereafter activation by CTAF.

## Transponder OPS

ASDE-X in use, operate transponders with ALT reporting Mode and ADS-B (if equipped) enabled on all airport surfaces.

## RWY Restriction

RWY 02R/20L CLSD when ATC not AVBL.

**VOR Test Facility (VOT):** 110.0

## Warnings

**SLI DME** unusable: R125-R195 beyond 20NM below 5000ft.

Birds in vicinity of AD.

## ARRIVAL

## Speed

MAX IAS 250KT below 10000ft.

## Communication

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

## ROOBY

LGB RWY 30:

After ROYYC intercept and proceed on the RNAV (RNP) RWY 30 or ILS RWY 30 APCH.

RWY 12:

After ROYYC maintain 3000ft and proceed direct BREKE then on RNAV (RNP) RWY 12 APCH.

If unable APCH to LGB climb to 4000ft direct SLI VOR/DME and hold.

SNA RWY 02L:

After GRYCE proceed RNAV (RNP) RWY 02L APCH or maintain 3000ft and proceed direct MINOE then on LOC BC RWY 02L APCH.

If unable APCH to SNA climb to 5000ft direct SLI VOR/DME and hold.

**ARRIVAL****DSNEE**

LGB RWY 30/26R:

After MIDDS proceed on RNAV (RNP) RWY 30 or ILS RWY 30 APCH.

RWY 12:

After BREKE proceed on the RNAV (RNP) RWY 12 APCH.

If unable APCH, after MIDDS/BREKE climb to 4000ft direct SLI VOR/DME and hold.

SNA RWY 20R:

After DSNEE proceed on the RNAV (RNP) RWY 20R APCH.

If unable APCH, after DSNEE maintain 6000ft direct SLI VOR/DME and hold.

**OHSEA RNAV, TILLT RNAV**

RWY 20R:

After BHEAR turn right direct SNAKE and execute ILS or LOC RWY 20R APCH.

**TILLT RNAV**

RWY 02L:

Proceed on LOC BC RWY 02L, RNAV (GPS) Y RWY 02L or RNAV (RNP) Z RWY 02L.

**Arrival Procedure****VFR Traffic Pattern**

RWY 20R and 02R right-hand circuit.

**Noise Abatement Procedure**

Maintain 300ft AGL or above until established on final.

**Warnings**

**ILS RWY 20R:** LOC backcourse unusable beyond 25° left and right of course.

## DEPARTURE

## Take-off Minima

RWY		20R	
1+2 ENG	ft - ft/SM	0 - 5000R/1.0V	SID FINZZ: MNM climb gradient 5.3% up to 560 SID MUSEL: MNM climb gradient 5.7% up to 2400 SID CHANNEL: MNM climb gradient 7.3% up to 2400
3+4 ENG		0 - 2400R/0.5V	SID HHERO: MNM climb gradient 8.3% up to 560 SID STAYY: MNM climb gradient 8.3% up to 600
RWY		02L	
1+2 ENG	ft - ft/SM	0 - 1.0V	SID EL TORO, SID IRVINE: MNM climb gradient 6.4% up to 5600 SID PIGGN: MNM climb gradient 8.3% up to 800
3+4 ENG		0 - 0.5V	SID HOBOW, SID MIKAA: MNM climb gradient 8.3% up to 1500
All ACFT		Not authorized	SID HHERO, SID STAYY

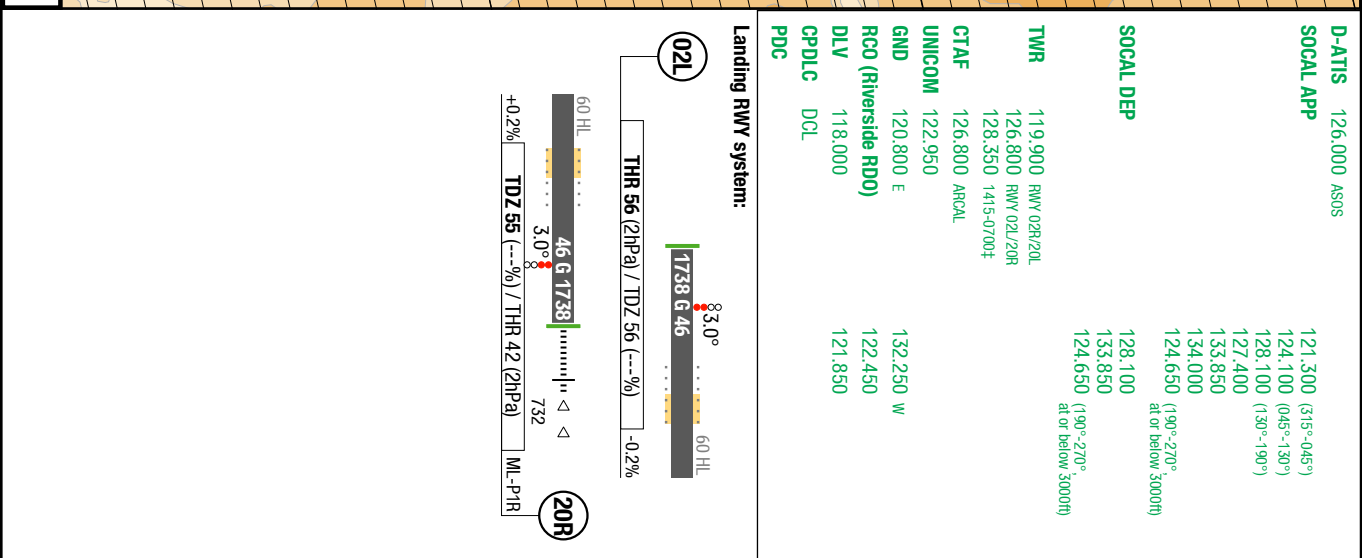
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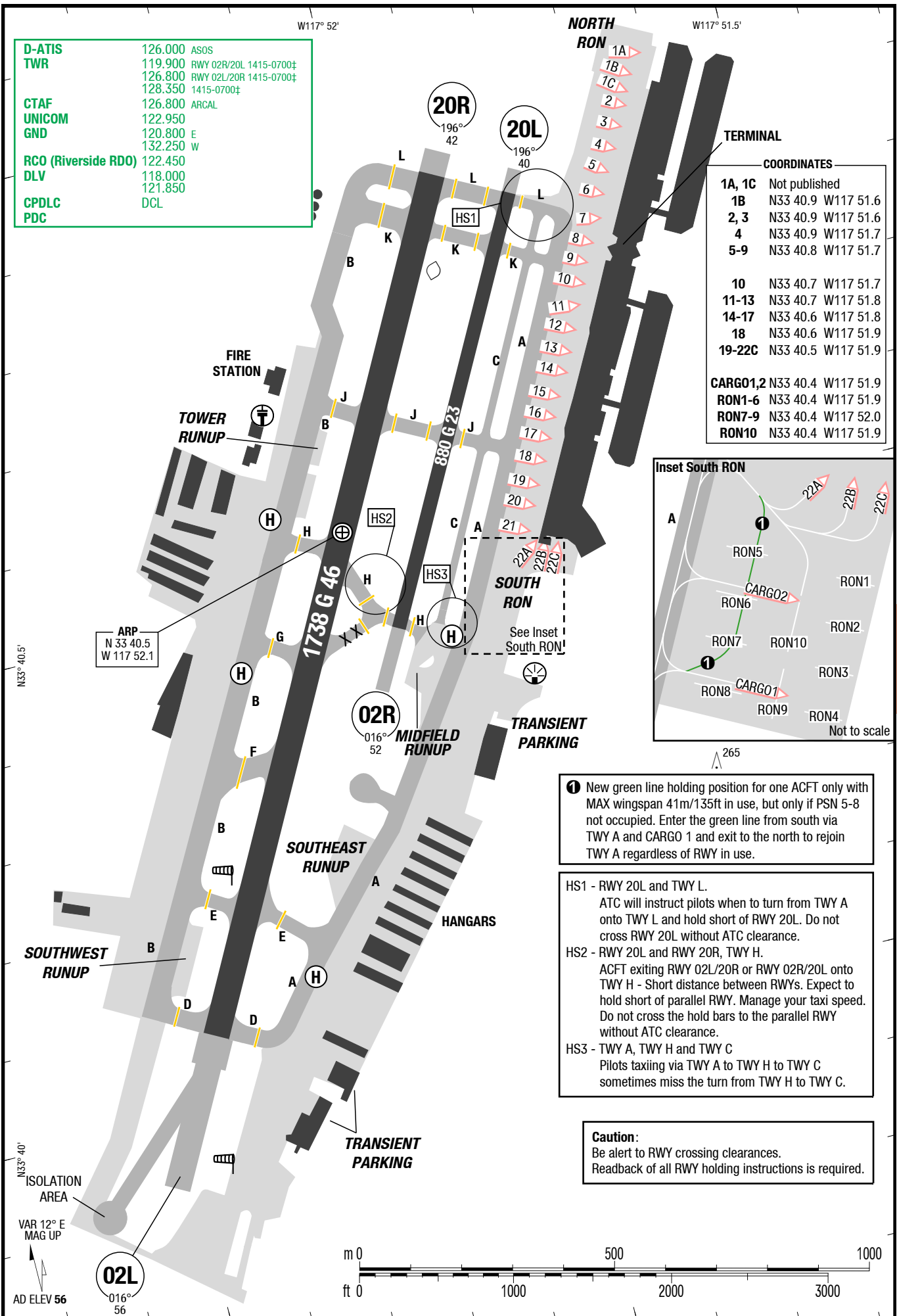
MAX IAS 250KT below 10000ft.

## Communication

**COM Failure:** See CRAR and in addition;**SID EL TORO, IRVINE**

If contact is lost before R332 ELB, turn right direct ELB VOR/DME, climb to 7000 and proceed via assigned transition or route. Climb to filed ALT ten minutes after departure.





SNA-KSNA

4-10

FINZZ 2 RNAV

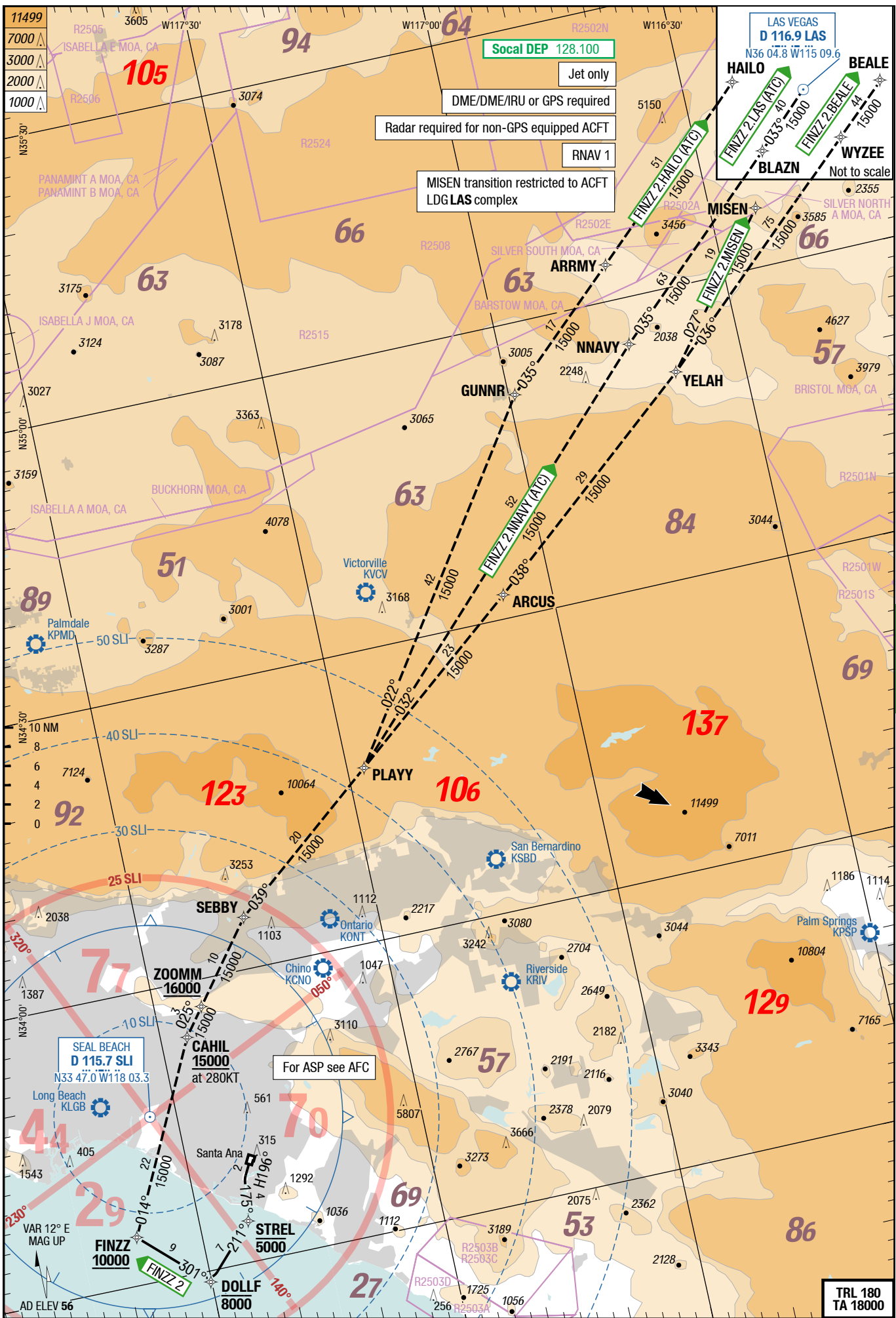
[HHEFO 3 RNAV]

SID

SID

FINZZ 2 RNAV

[HHEFO 3 RNAV]



Changes: Nil



SNA-KSNA

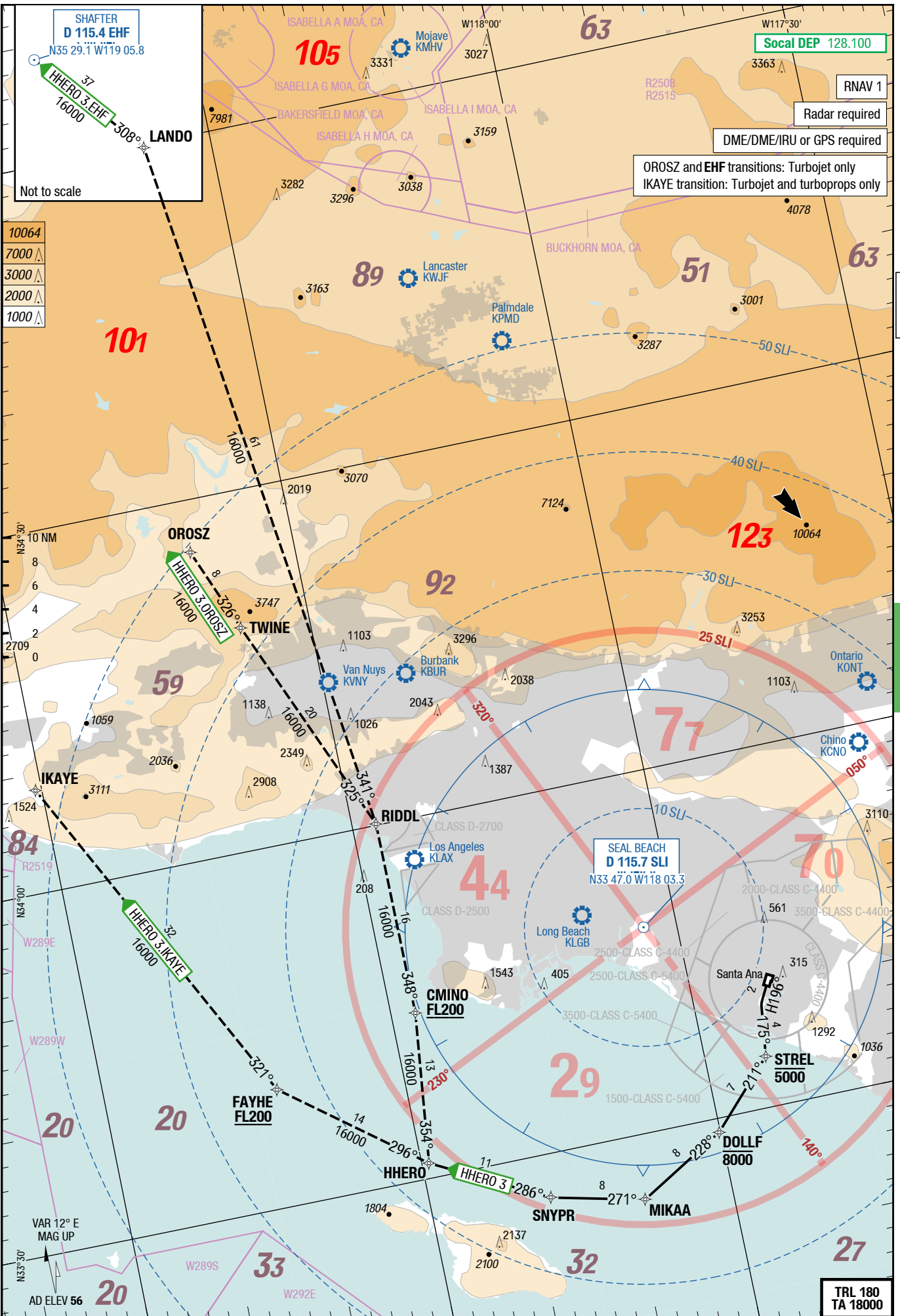
4-20

HHERO 3 RNAV

SID

SID

HHERO 3 RNAV



## SNA-KSNA

MIKAA 1 RNAV

4-30

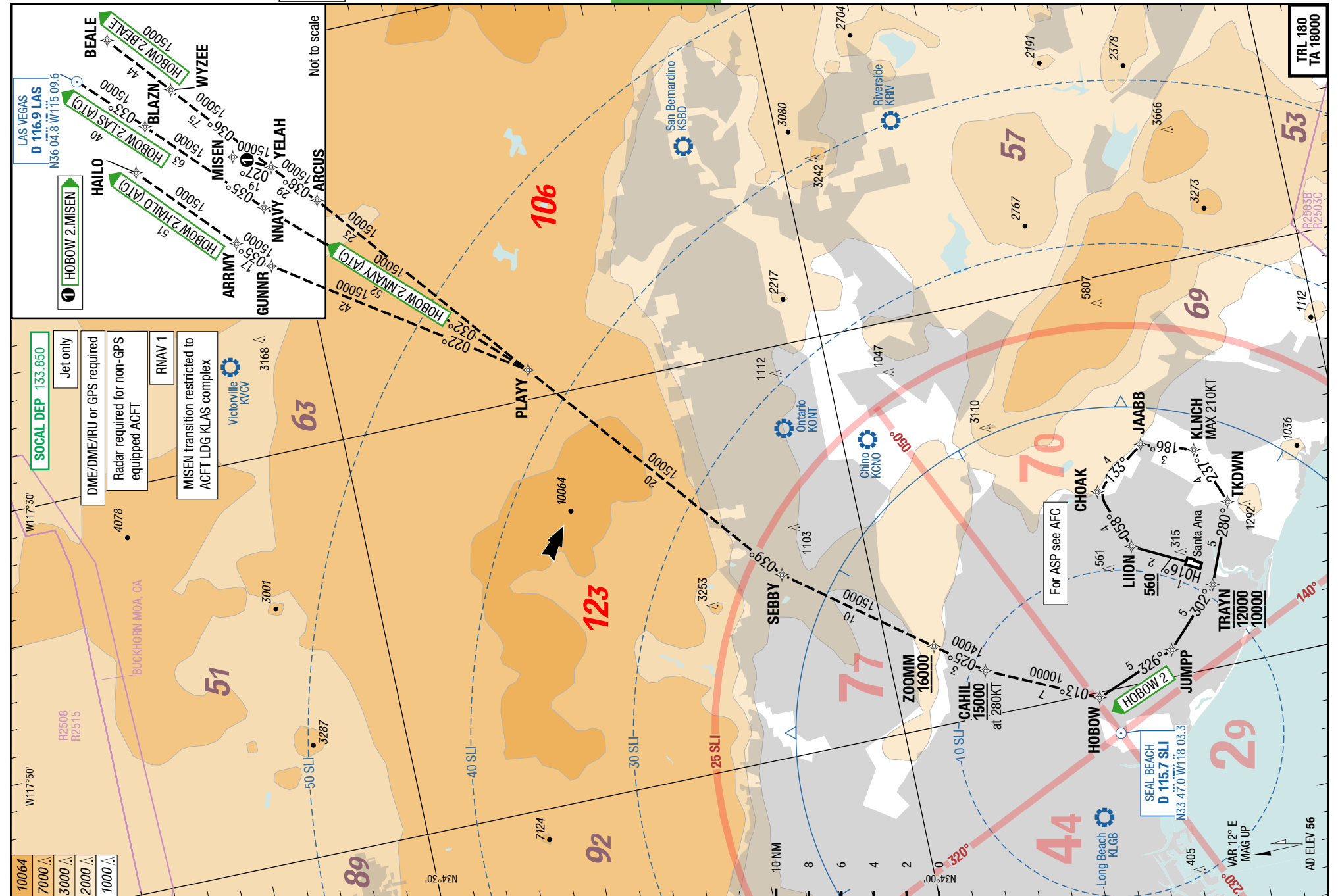
## HOBOW 2 RNAV

SID

SID

MIKAA 1 RNAV

## HOBOW 2 RNAV



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Changes: PROC renumbered, Note, OBST



Effective 01-FEB-2018

25-JAN-2018

SNA-KSNA

United States Santa Ana John Wayne Airport-Orange County

John Wayne Airport-Orange County Santa Ana United States

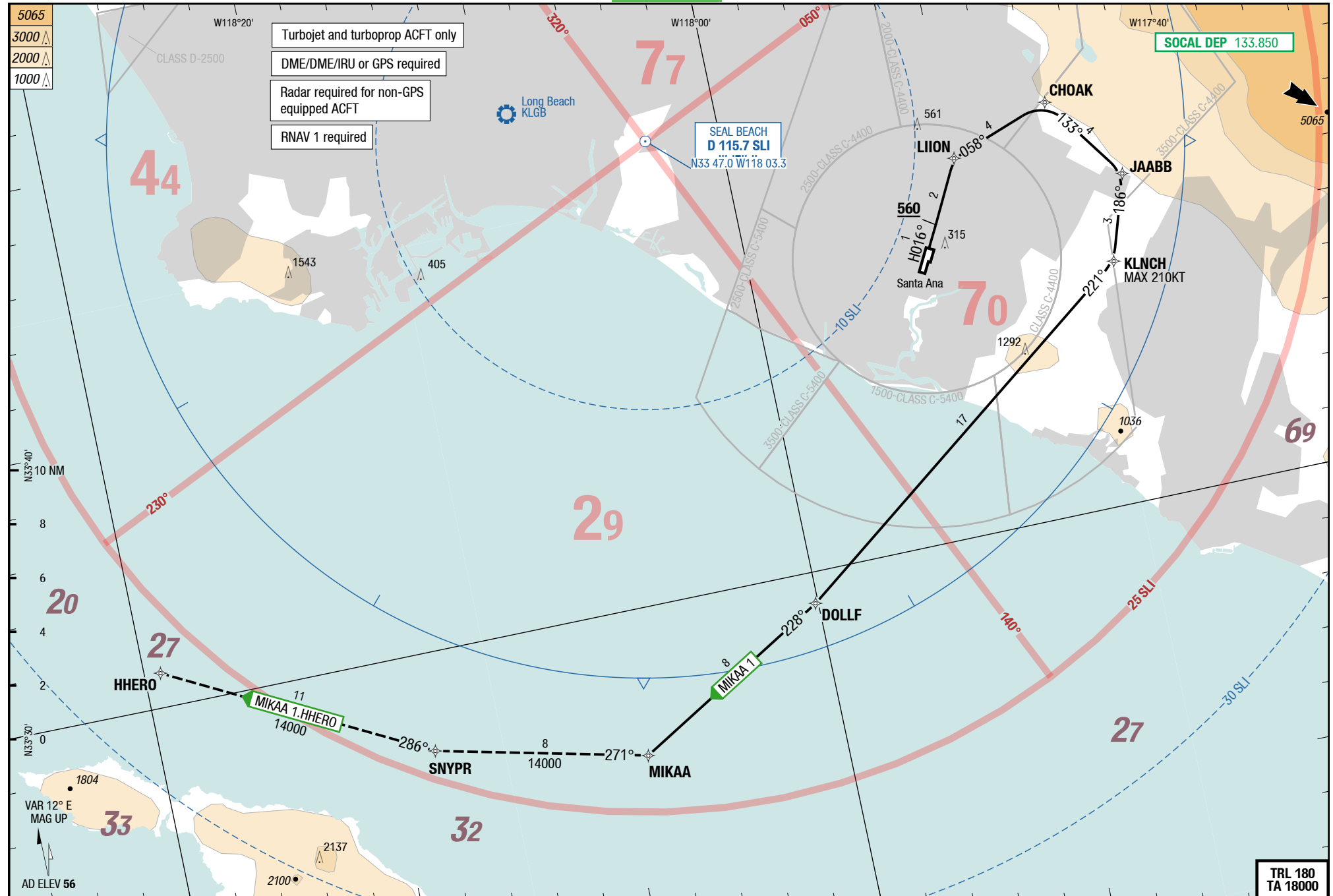
4-40

MIKAA 1 RNAV

SID

SID

MIKAA 1 RNAV



Changes: Nil

## SNA-KSNA

STAYY 1 RNAV

**4-50**

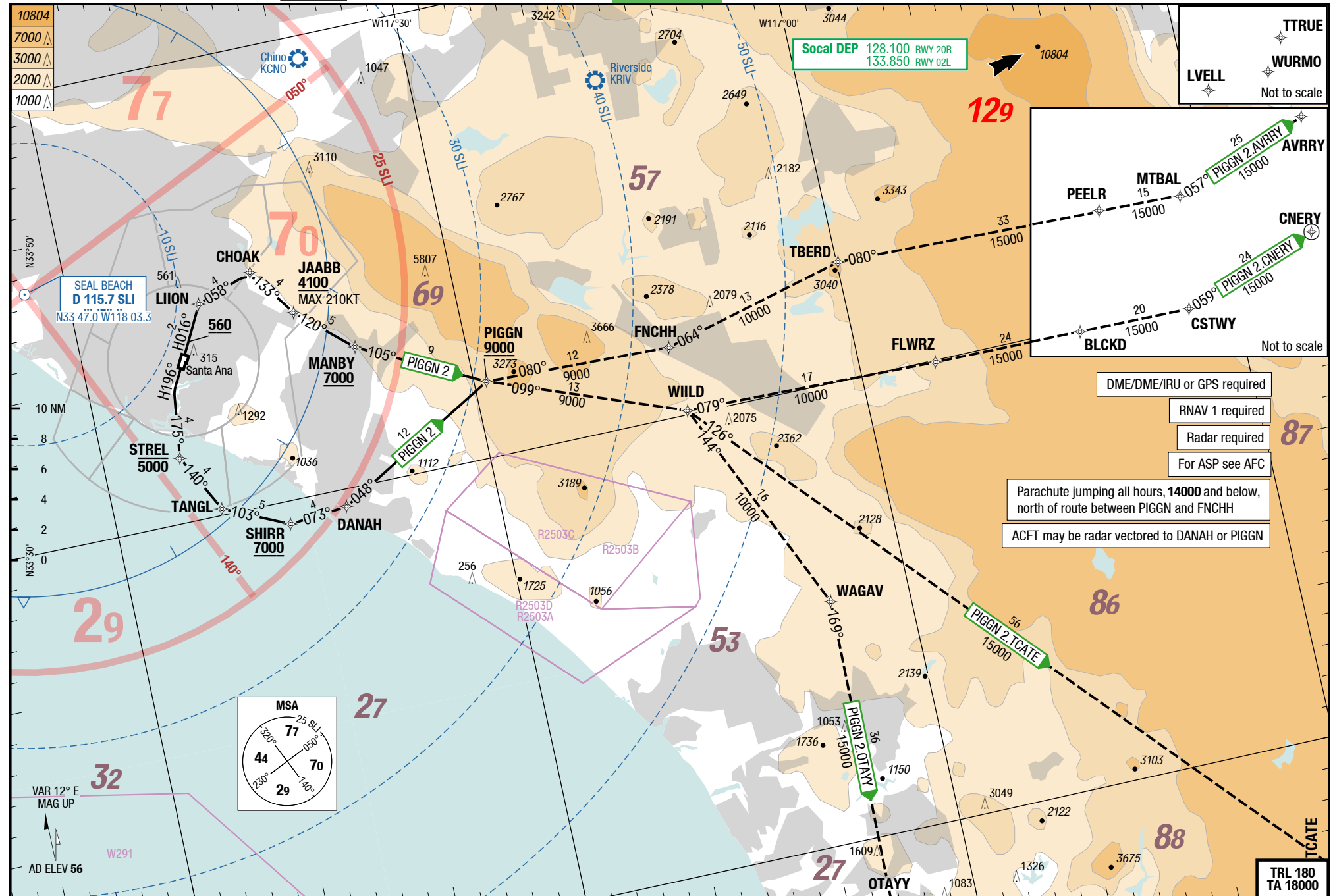
## PIGGN 2 RNAV

**cid**

**cid**

STAYY 1 RNAV

## PIGGN 2 RNAV



Changes: FREQ

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26-APR-2018

United States Santa Ana John Wayne Airport-Orange County

John Wayne Airport-Orange County Santa Ana United States

SNA-KSNA

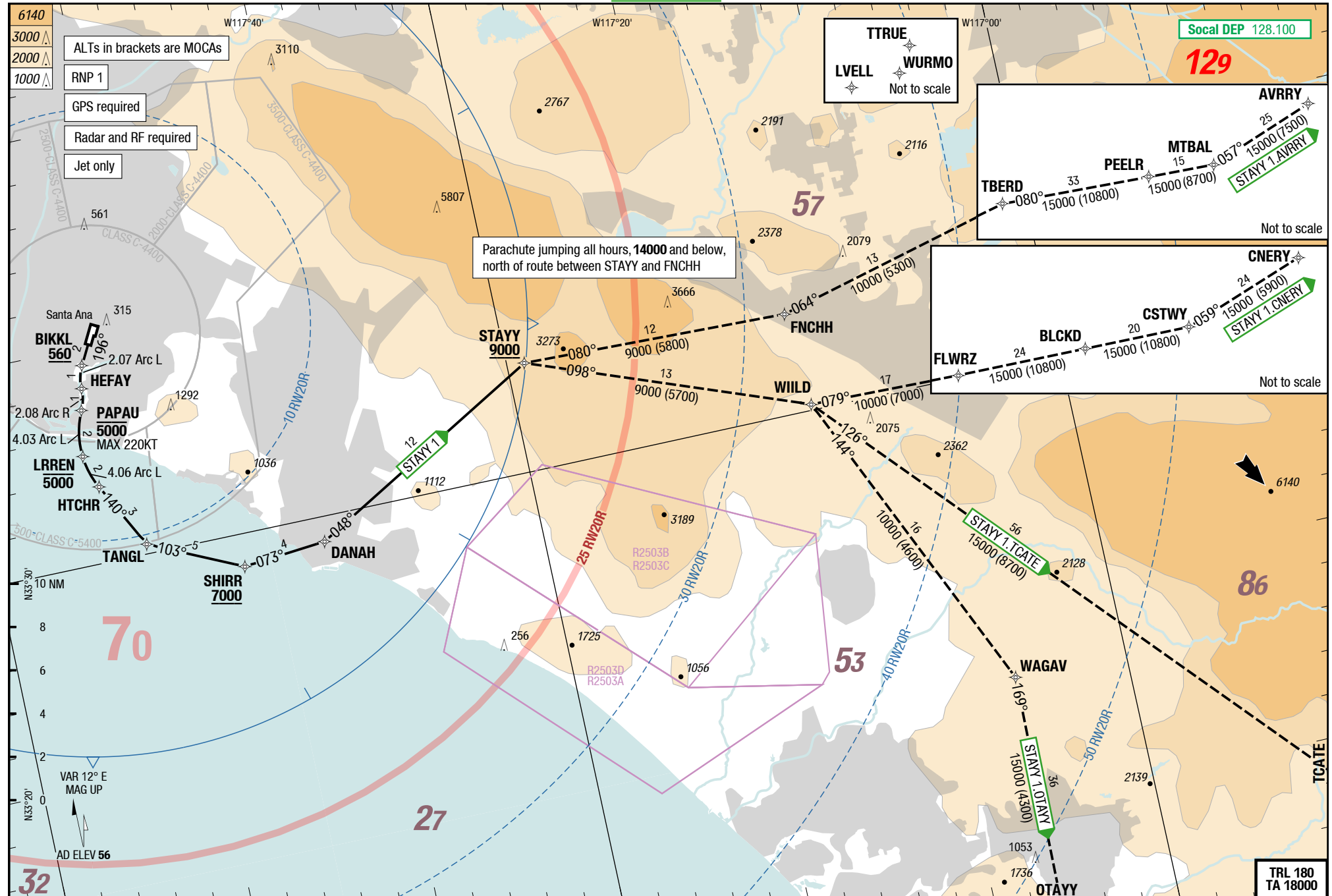
4-60

STAYY 1 RNAV

SID

SID

STAYY 1 RNAV



## SNA-KSNA

EL TORO 4 (ELB 4)

## CHANNEL 3

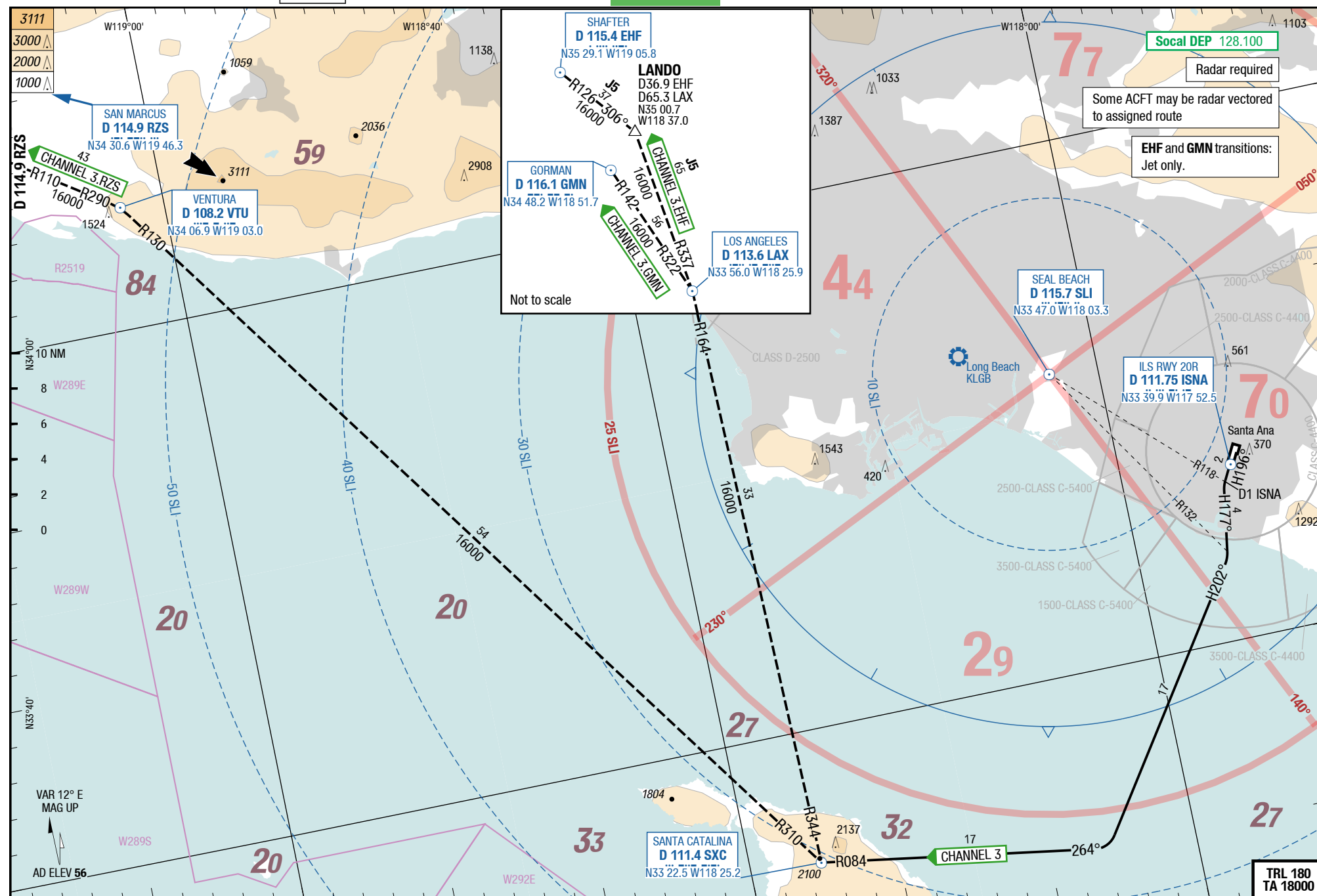
SID

SID

EL TORO 4 (ELB 4)

**CHANNEL 3**

4-70



Changes: Page Number

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SNA-KSNA

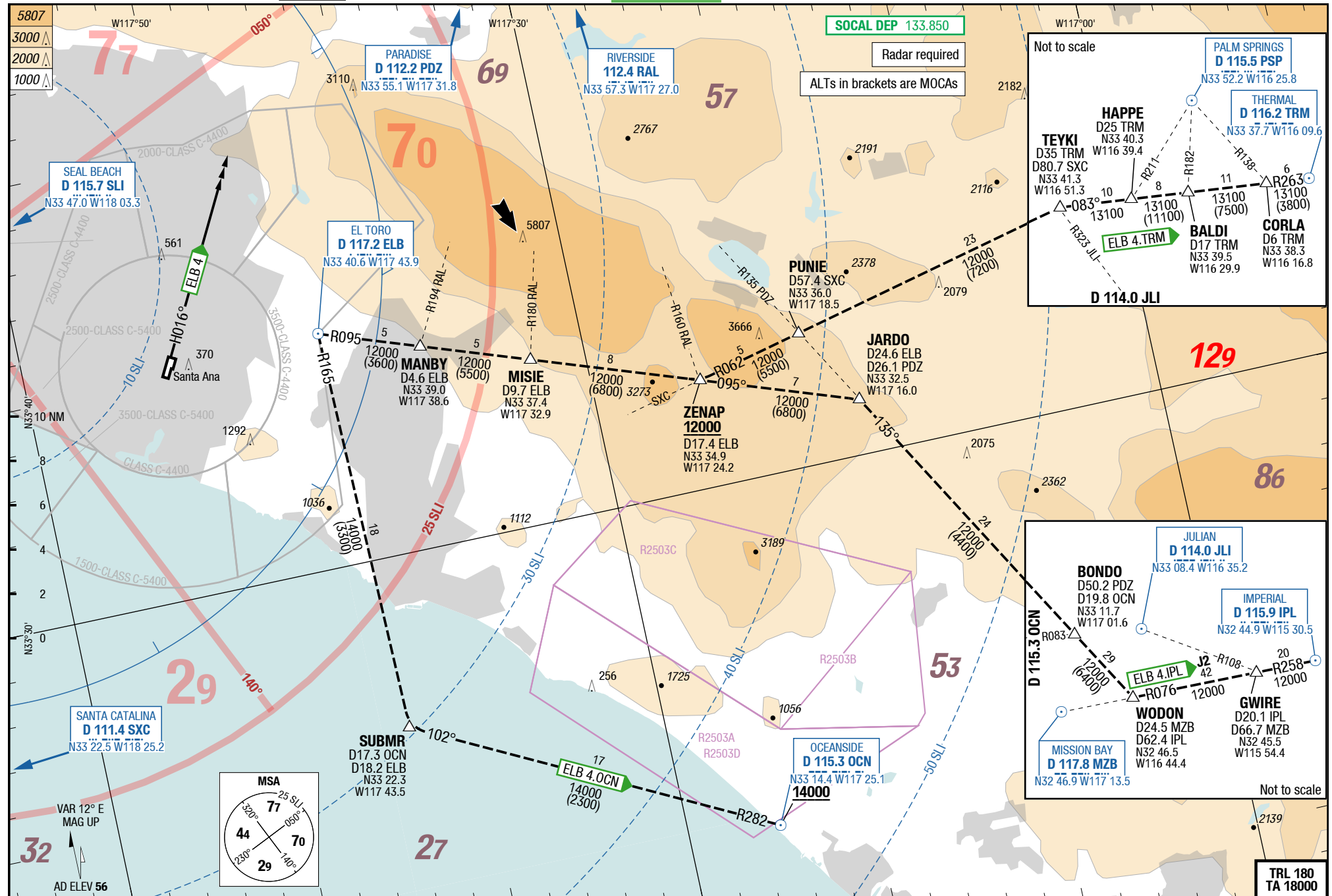
4-80

EL TORO 4 (ELB 4)

SID

SID

EL TORO 4 (ELB 4)





## SNA-KSNA

**MUSEL 8**

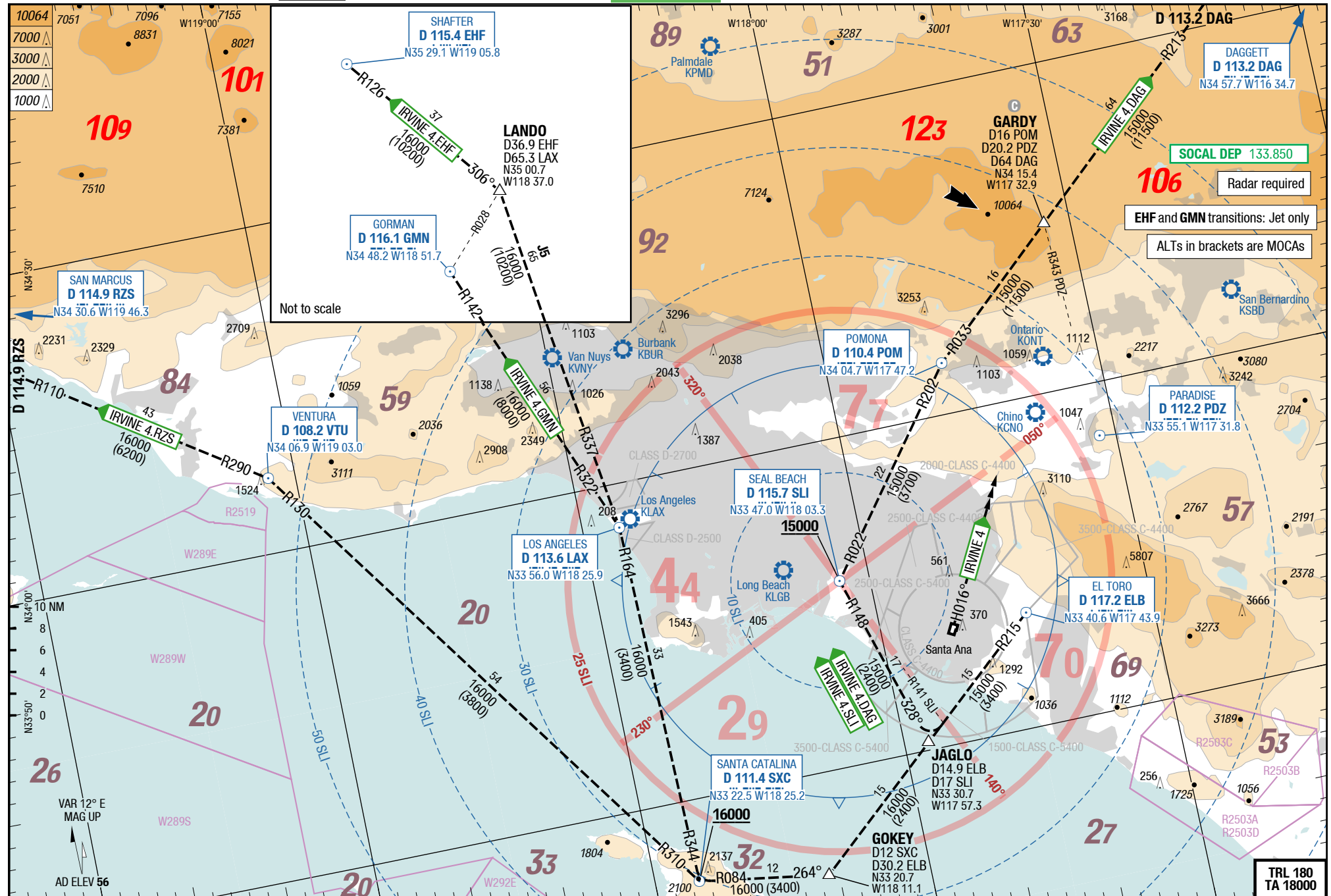
## IRVINE 4

SID

**DIS**

**MUSEL 8**

## IRVINE 4

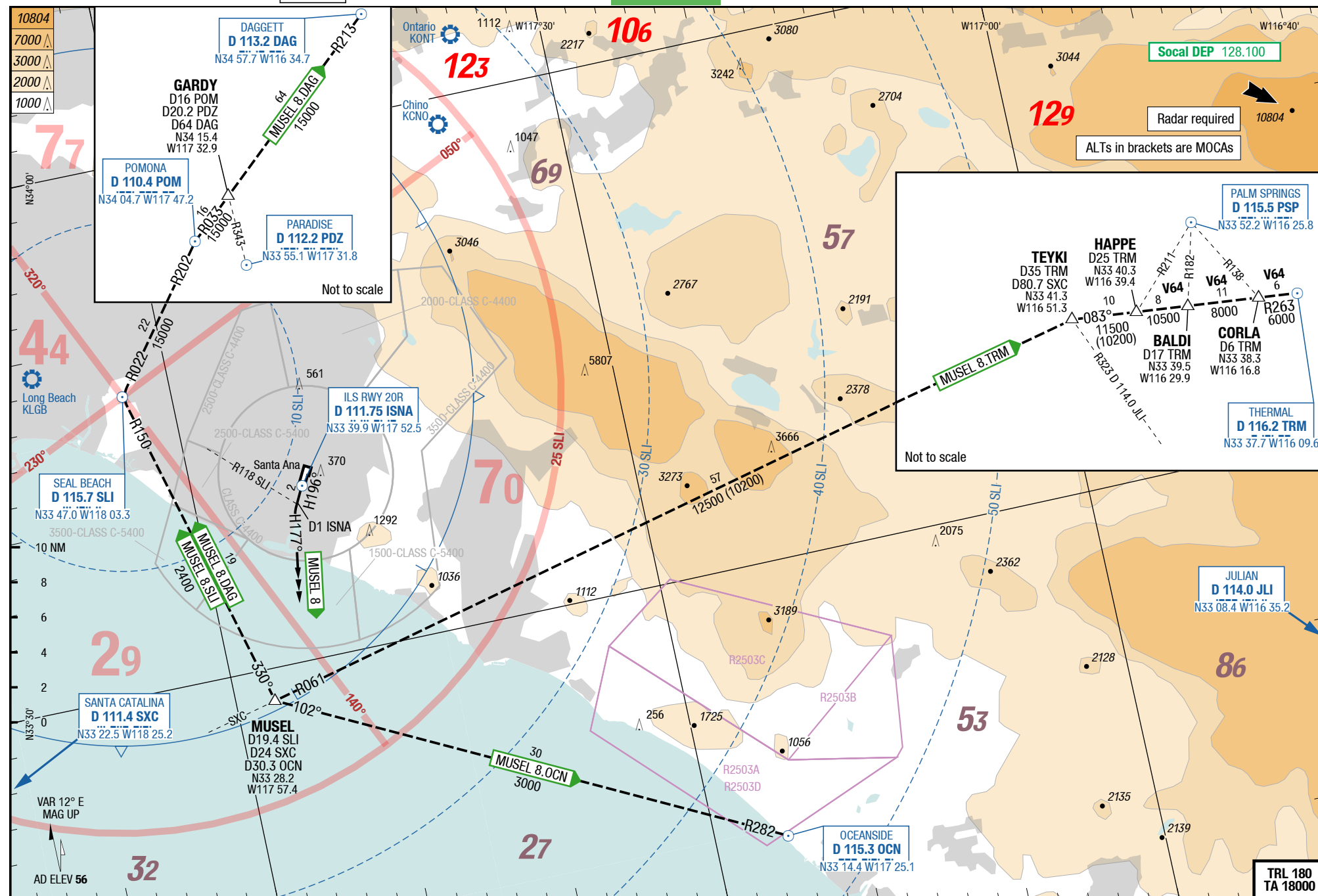


Changes: Page Number

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## MUSEL 8

## MUSEL 8



12-JUL-2018

SNA-KSNA

5-10

FINZZ 2 RNAV

SIDPT

## FINZZ 2

RWY 20R (196°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 20R	
<b>FINZZ 2</b> (Jet) <b>128.100</b> ①②③	H196° INTCP - 175° STREL - DOLLF - FINZZ	STREL MAX <b>5000</b> DOLLF MAX <b>8000</b> FINZZ MNM <b>10000</b> initial climb <b>17000</b>
	TRANSITION	
	<b>BEALE</b> FINZZ - CAHIL [K280] - ZO0MM - SEBBY - PLAYY - ARCUS - YELAH - WYZEE - BEALE	FINZZ MNM <b>10000</b> CAHIL MNM <b>15000</b> ZO0MM MNM <b>16000</b>
	<b>HAILO (ATC)</b> FINZZ - CAHIL [K280] - ZO0MM - SEBBY - PLAYY - GUNNR - ARRM - HAILO	FINZZ MNM <b>10000</b> CAHIL MNM <b>15000</b> ZO0MM MNM <b>16000</b>
	<b>LAS VEGAS (LAS) (ATC)</b> FINZZ - CAHIL [K280] - ZO0MM - SEBBY - PLAYY - NNAVY - BLAZN - LAS	FINZZ MNM <b>10000</b> CAHIL MNM <b>15000</b> ZO0MM MNM <b>16000</b>
	<b>MISEN</b> FINZZ - CAHIL [K280] - ZO0MM - SEBBY - PLAYY - ARCUS - YELAH - MISEN	FINZZ MNM <b>10000</b> CAHIL MNM <b>15000</b> ZO0MM MNM <b>16000</b>
	<b>NNAVY (ATC)</b> FINZZ - CAHIL [K280] - ZO0MM - SEBBY - PLAYY - NNAVY	FINZZ MNM <b>10000</b> CAHIL MNM <b>15000</b> ZO0MM MNM <b>16000</b>

① Expect filed altitude 10 MIN after departure

② If unable speed restriction at CAHIL, advise ATC on initial contact

③ MISEN transition restricted to ACFT LDG LAS complex

Changes: Nil

12-JUL-2018

SNA-KSNA

5-20

HHERO 3 RNAV

SIDPT

HHERO 3

RWY 20R (196°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 20R	
<b>HHERO 3</b> <b>128.100</b> ①②	H196° INTCPT - 175° STREL - DOLLF - MIKAA - SNYPR - HHERO	STREL MAX <b>5000</b> DOLLF MAX <b>8000</b>  initial climb by ATC
	TRANSITION	
	<b>IKAYE</b> HHERO - FAYHE - IKAYE	FAYHE MNM <b>FL200</b>
	<b>OROSZ</b> HHERO - CMINO - RIDDL - TWINE - OROSZ	CMINO MNM <b>FL200</b>
	<b>SHAFTER (EHF)</b> HHERO - CMINO - RIDDL - LANDO - EHF	CMINO MNM <b>FL200</b>

① Expect filed altitude 10 MIN after departure

② OROSZ and EHF transitions: Turbojet only. IKAYE transition: Turbojet and turboprops only

25-JAN-2018

SNA-KSNA

5-30

HOBOW 2 RNAV

SIDPT

**HOBOW 2**

RWY 02L (016°)

DESIGNATOR	ROUTING	ALTITUDES
	<b>Runway 02L</b>	
<b>HOBOW 2</b> (Jet only) <b>133.850</b> ①②③	H016° [A560+] - DCT LIION - CHOAK - JAABB - KLNCH [K210-] - TKDWN - TRAYN - JUMPP - HOBOW	TRAYN between <b>10000</b> and <b>12000</b>  <b>initial climb 17000</b>
	<b>TRANSITION</b>	
	<b>BEALE</b> HOBOW - CAHIL [K280] - ZOOMM - SEBBY - PLAYY - ARCUS - YELAH - WYZEE - BEALE	CAHIL MNM <b>15000</b> ZOOMM MNM <b>16000</b>
	<b>HAILO (ATC)</b> HOBOW - CAHIL [K280] - ZOOMM - SEBBY - PLAYY - GUNNR - ARRM - HAILO	CAHIL MNM <b>15000</b> ZOOMM MNM <b>16000</b>
	<b>LAS VEGAS (LAS) (ATC)</b> HOBOW - CAHIL [K280] - ZOOMM - SEBBY - PLAYY - NNAVY - BLAZN - LAS	CAHIL MNM <b>15000</b> ZOOMM MNM <b>16000</b>
	<b>MISEN</b> HOBOW - CAHIL [K280] - ZOOMM - SEBBY - PLAYY - ARCUS - YELAH - MISEN	CAHIL MNM <b>15000</b> ZOOMM MNM <b>16000</b>
	<b>NNAVY (ATC)</b> HOBOW - CAHIL [K280] - ZOOMM - SEBBY - PLAYY - NNAVY	CAHIL MNM <b>15000</b> ZOOMM MNM <b>16000</b>

- ① If unable speed restriction at CAHIL, advise ATC on initial contact  
 ② MISEN transition restricted to ACFT LDG KLAS complex  
 ③ Expect filed altitude 10 MIN after departure

Changes: Initial climb, PROC renumbered



25-JAN-2018

SNA-KSNA

5-40

MIKAA 1 RNAV

SIDPT

MIKAA 1

RWY 02L (016°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 02L	
<b>MIKAA 1</b> <b>133.850</b> ①	HDG 016° - at MNM <b>560</b> direct LIION - CHOAK - JAABB - KLNCH [K210-] - DOLLF - MIKAA	<b>initial climb 14000</b>
	TRANSITION	
	<b>HHERO</b> MIKAA - SNYPR - HHERO	

① Expect filed altitude 10 MIN after departure

Changes: Nil

**PIGGN 2**

RWYs 02L (016°) / 20R (196°)

DESIGNATOR	ROUTING	ALTITUDES
<b>PIGGN 2</b> ①②		
<b>RWY 02L</b> <b>133.850</b>	[A560+] - LIION - CHOAK - JAABB [K210-] - MANBY - PIGGN	JAABB MNM <b>4100</b> MANBY MNM <b>7000</b> PIGGN MNM <b>9000</b> initial climb <b>13000</b>
<b>RWY 20R</b> <b>128.100</b>	HDG 196° - LT 175° to STREL - TANGL - SHIRR - DANAHA - PIGGN	STREL MAX <b>5000</b> SHIRR MNM <b>7000</b> PIGGN MNM <b>9000</b> initial climb <b>13000</b>
<b>TRANSITION</b>		
<b>AVRRY</b> PIGGN - FNCHH - TBERD - PEELR - MTBAL - AVRRY		PIGGN MNM <b>9000</b>
<b>CNERY</b> PIGGN - WIILD - FLWRZ - BLCKD - CSTWY - CNERY		PIGGN MNM <b>9000</b>
<b>OTAYY</b> PIGGN - WIILD - WAGAV - OTAYY		PIGGN MNM <b>9000</b>
<b>TCATE</b> PIGGN - WIILD - TCATE		PIGGN MNM <b>9000</b>

① ACFT may be radar vectored to DANAHA or PIGGN

② Expect filed altitude 10 MIN after departure

26-APR-2018

**SNA-KSNA****5-60****STAYY 1 RNAV****SIDPT****STAYY 1**

RWY 20R (196°)

DESIGNATOR	ROUTING	ALTITUDES
	<b>Runway 20R</b>	
<b>STAYY 1</b> (Jet only) <b>128.100</b> ①	196° BIKKL - 2.07 ARC L HEFAY - 2.08 ARC R PAPAU [K220-] - 4.03 ARC L LRREN - 4.06 ARC L HTCHR - TANGL - SHIRR - DANAH - STAYY	BIKKL MNM <b>560</b> PAPAU MAX <b>5000</b> LRREN MAX <b>5000</b> SHIRR MNM <b>7000</b> STAYY MNM <b>9000</b>  <b>initial climb</b> 13000
	<b>TRANSITION</b>	
	<b>AVRRY</b> STAYY - FNCHH - TBERD - PEELR - MTBAL - AVRRY	STAYY MNM <b>9000</b>
	<b>CNERY</b> STAYY - WIILD - FLWRZ - BLCKD - CSTWY - CNERY	STAYY MNM <b>9000</b>
	<b>OTAYY</b> STAYY - WIILD - WAGAV - OTAYY	STAYY MNM <b>9000</b>
	<b>TCATE</b> STAYY - WIILD - TCATE	STAYY MNM <b>9000</b>

① Expect filed altitude 10 MIN after departure.

Changes: FREQ

20-APR-2017

SNA-KSNA

5-70

CHANNEL 3

SIDPT

## CHANNEL 3

RWY 20R (196°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 20R	
<b>CHANNEL 3</b> <b>128.100</b> ①②③	HDG 196° or <b>ISNA</b> LOC south course - at D1 <b>ISNA</b> or crossing R118 <b>SLI LT</b> HDG 177° - crossing R132 <b>SLI RT</b> HDG 202° intercept R084 <b>SXC</b> to <b>SXC</b>	
	TRANSITION	
	<b>GORMAN (GMN)</b> <b>SXC</b> - R344 <b>SXC</b> (R164 <b>LAX</b> ) to <b>LAX</b> - R322 <b>LAX</b> (R142 <b>GMN</b> ) to <b>GMN</b>	
	<b>SAN MARCUS (RZS)</b> <b>SXC</b> - R310 <b>SXC</b> (R130 <b>VTU</b> ) to <b>VTU</b> - R290 <b>VTU</b> (R110 <b>RZS</b> ) to <b>RZS</b>	
	<b>SHAFTER (EHF)</b> <b>SXC</b> - R344 <b>SXC</b> (R164 <b>LAX</b> ) to <b>LAX</b> - R337 <b>LAX</b> to <b>LANDO</b> - <b>LT</b> intercept R126 <b>EHF</b> to <b>EHF</b>	

- ① Expect filed altitude 10 min after departure.  
 ② Some ACFT may be radar vectored to assigned route.  
 ③ SHAFTER and GORMAN transitions: Jet only.

20-APR-2017

SNA-KSNA

5-80

EL TORO 4 (ELB 4)

SIDPT

## EL TORO 4

RWY 02L (016°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 02L	
<b>EL TORO 4</b> <b>ELB 4</b> <b>133.850</b> ①	HDG 016° - expect vectors to <b>ELB</b>	
	<b>TRANSITION</b>	
	<b>IMPERIAL (IPL)</b> <b>ELB</b> - R095 <b>ELB</b> to MANBY - MISIE - ZENAP - JARDO - R135 <b>PDZ</b> to BOND0 - WODON - R076 <b>MZB</b> to GWIRE - R258 <b>IPL</b> to <b>IPL</b>	ZENAP MNM 12000
	<b>OCEANSIDE (OCN)</b> <b>ELB</b> - R165 <b>ELB</b> to SUBMR - R282 <b>OCN</b> to <b>OCN</b>	<b>OCN</b> MNM 14000
	<b>THERMAL (TRM)</b> <b>ELB</b> - R095 <b>ELB</b> to MANBY - MISIE - ZENAP - R062 <b>SXC</b> to PUNIE - TEYKI - R263 <b>TRM</b> to HAPPE - BALDI - CORLA - <b>TRM</b>	ZENAP MNM 12000

① Expect filed altitude 10 min after departure.



20-APR-2017

SNA-KSNA

5-90

IRVINE 4

SIDPT

## IRVINE 4

RWY 02L (016°)

DESIGNATOR	ROUTING	ALTITUDES
	Runway 02L	
<b>IRVINE 4</b> <b>133.850</b> ①②	HDG 016°- expect vectors to <b>ELB</b>	
	<b>TRANSITION</b>	
	<b>DAGGETT (DAG)</b> <b>ELB</b> - R215 <b>ELB</b> to JAGLO - R148 <b>SLI</b> to <b>SLI</b> - R022 <b>SLI</b> / R202 <b>POM</b> to <b>POM</b> - R033 <b>POM</b> to GARDY - R213 <b>DAG</b> to <b>DAG</b>	<b>SLI MNM 15000</b>
	<b>GORMAN (GMN)</b> <b>ELB</b> - R215 <b>ELB</b> to JAGLO - GOKEY - R084 <b>SXC</b> to <b>SXC</b> - R344 <b>SXC</b> / R164 <b>LAX</b> to <b>LAX</b> - R322 <b>LAX</b> / R142 <b>GMN</b> to <b>GMN</b>	<b>SXC MNM 16000</b>
	<b>SAN MARCUS (RZS)</b> <b>ELB</b> - R215 <b>ELB</b> to JAGLO - GOKEY - R084 <b>SXC</b> to <b>SXC</b> - R310 <b>SXC</b> / R130 <b>VTU</b> to <b>VTU</b> - R290 <b>VTU</b> / R110 <b>RZS</b> to <b>RZS</b>	<b>SXC MNM 16000</b>
	<b>SEAL BEACH (SLI)</b> <b>ELB</b> - R215 <b>ELB</b> to JAGLO - R148 <b>SLI</b> to <b>SLI</b>	<b>SLI MNM 15000</b>
	<b>SHAFTER (EHF)</b> <b>ELB</b> - R215 <b>ELB</b> to JAGLO - GOKEY - R084 <b>SXC</b> to <b>SXC</b> - R344 <b>SXC</b> / R164 <b>LAX</b> to <b>LAX</b> - R337 <b>LAX</b> to LANDO - R126 <b>EHF</b> to <b>EHF</b>	<b>SXC MNM 16000</b>

① Expect filed altitude 10 min after departure.

② EHF and GMN transitions JET only.

20-APR-2017

SNA-KSNA

5-100

MUSEL 8

SIDPT

**MUSEL 8**

RWY 20R (196°)

DESIGNATOR	ROUTING	ALTITUDES
	<b>Runway 20R</b>	
<b>MUSEL 8</b> <b>128.100</b> ①	HDG 196° or <b>ISNA</b> LOC south course - at D1 <b>ISNA</b> or crossing R118 <b>SLI LT</b> HDG 177° - expect vectors to MUSEL	
	<b>TRANSITION</b>	
	<b>DAGGETT (DAG)</b> MUSEL - intercept R150 <b>SLI</b> to <b>SLI</b> - R022 <b>SLI</b> (R202 <b>POM</b> ) to <b>POM</b> - R033 <b>POM</b> to GARDY - R213 <b>DAG</b> to <b>DAG</b>	
	<b>OCEANSIDE (OCN)</b> MUSEL - intercept R282 <b>OCN</b> to <b>OCN</b>	
	<b>SEAL BEACH (SLI)</b> MUSEL - intercept R150 <b>SLI</b> to <b>SLI</b>	
	<b>THERMAL (TRM)</b> MUSEL - intercept R061 <b>SXC</b> to TEYKI - <b>RT</b> intercept R263 <b>TRM</b> to HAPPE - BALDI - CORLA - <b>TRM</b>	

① Expect filed altitude 10 min after departure.

20-APR-2017

SNA-KSNA

5-110

Obstacle Departure

SIDPT

Obstacle Departure	
RWY	Routing
02L/R	Climb <b>LT</b> direct <b>SLI</b> . All aircraft climb in <b>SLI</b> holding pattern (hold south, <b>LT</b> , 351° inbound) to cross <b>SLI</b> at or above MEA for direction of flight before proceeding on course.
20L/R	Climb <b>RT</b> direct <b>SLI</b> . All aircraft climb in <b>SLI</b> holding pattern (hold south, <b>LT</b> , 351° inbound) to cross <b>SLI</b> at or above MEA for direction of flight before proceeding on course.
RWY	Notes
02L	Pole and trees beginning 94ft from DER, 490ft left of centerline, up to 26ft AGL/63ft MSL. Navaid 497ft from DER, 625ft right of centerline, 19ft AGL/55ft MSL. Trees beginning 970ft from DER, 608ft left of centerline, up to 90ft AGL/127ft MSL.
02R	Navaid 497ft from DER, 125ft right of centerline, 19ft AGL/55ft MSL. Pole 1104ft from DER, 307ft right of centerline, 33ft AGL/68ft MSL. Building 1681ft from DER, 671ft right of centerline, 49ft AGL/87ft MSL. Tree 1745ft from DER, 309ft right of centerline, 52ft AGL/85ft MSL.
20R	Pole and trees beginning 204ft from DER, 490ft right of centerline, up to 38ft AGL/91ft MSL. WSK on hangar 536ft from DER, 605ft left of centerline, 40ft AGL/92ft MSL. Poles and trees beginning 808ft from DER, 489ft right of centerline, up to 58ft AGL/108ft MSL. Tree 1574ft from DER, 765ft left of centerline, 60ft AGL/113ft MSL.

## SNA-KSNA

OHSEA 1 RNAV

**6-10**

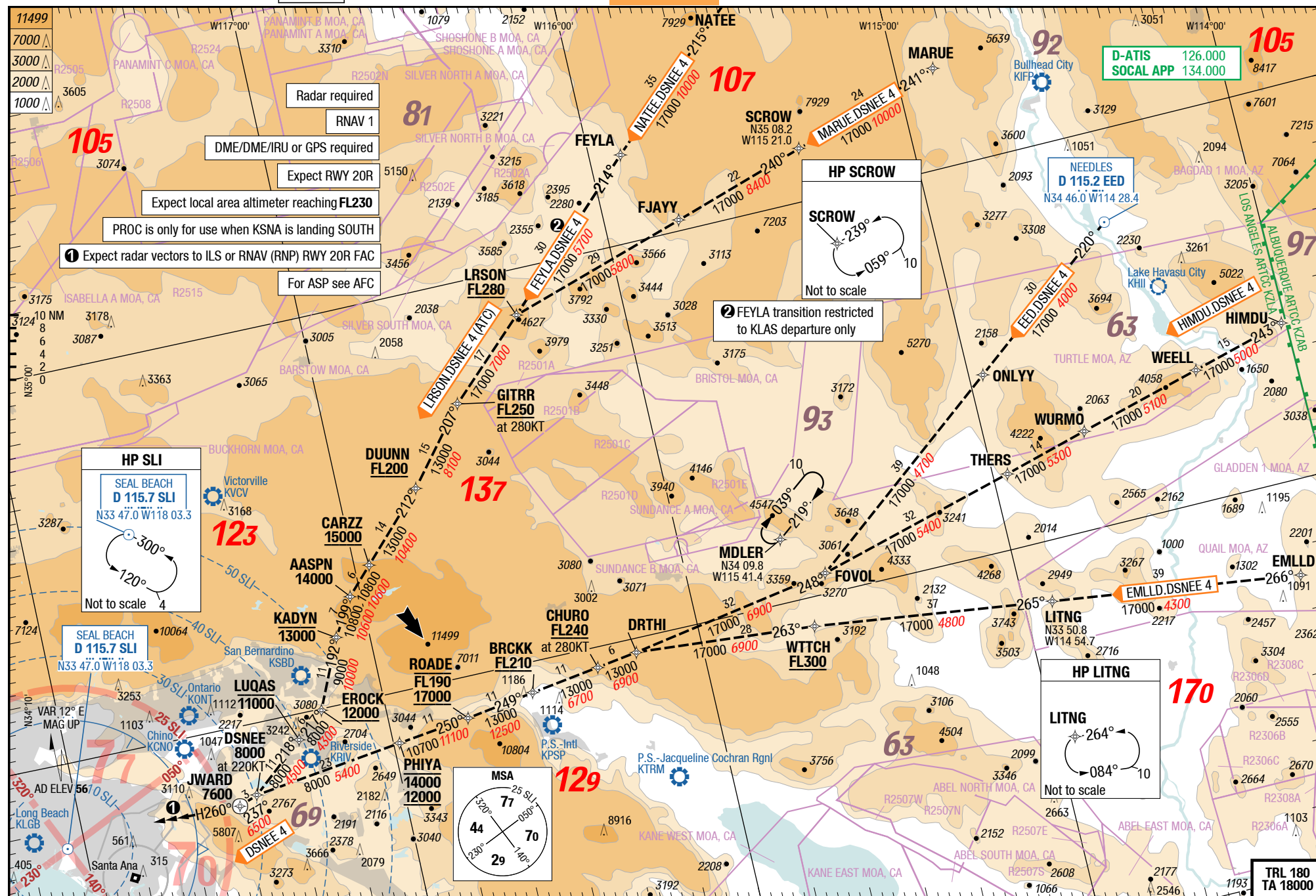
## DSNEE 4 RNAV

# STAR

# STAR

OHSEA 1 RNAV

## DSNEE 4 RNAV



Changes: PROC renumbered, OBST

© 1994-2010

## SNA-KSNA

# STAR

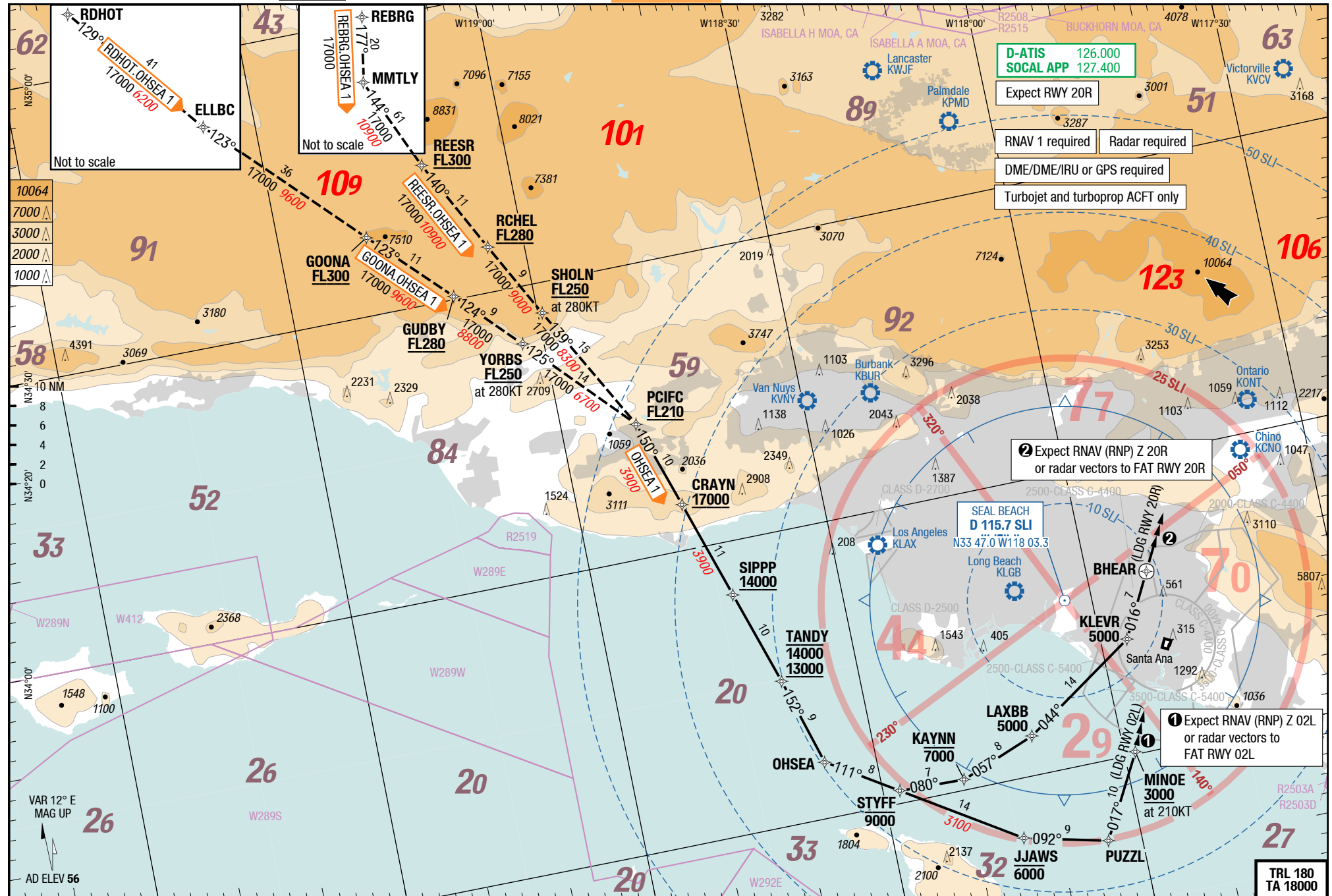
**STAR**

John Wayne Airport-Orange County **Santa Ana** United States

## OHSEA 1 RNAV

**6-20**

## OHSEA 1 RNAV



Changes: Nil

© Lido 2018



## SNA-KSNA

TILLT 2 RNAV

6-30

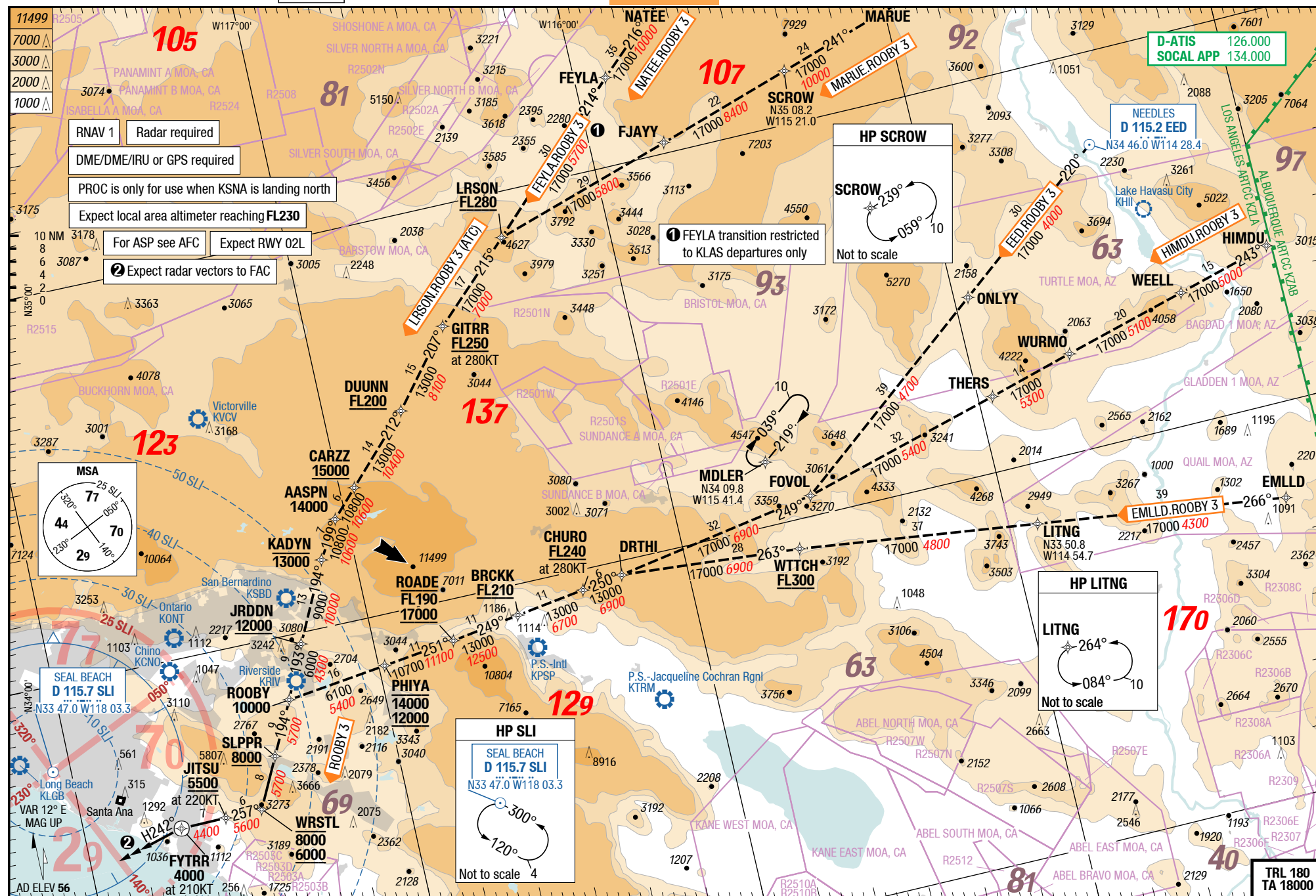
## ROOBY 3 RNAV

# STAR

# STAR

TILLT 2 RNAV

## ROOBY 3 RNAV



Changes: WPT CHURO. Note. PROC renumbered. Editorial

© Lido 2018

## SNA-KSNA

**6-40**

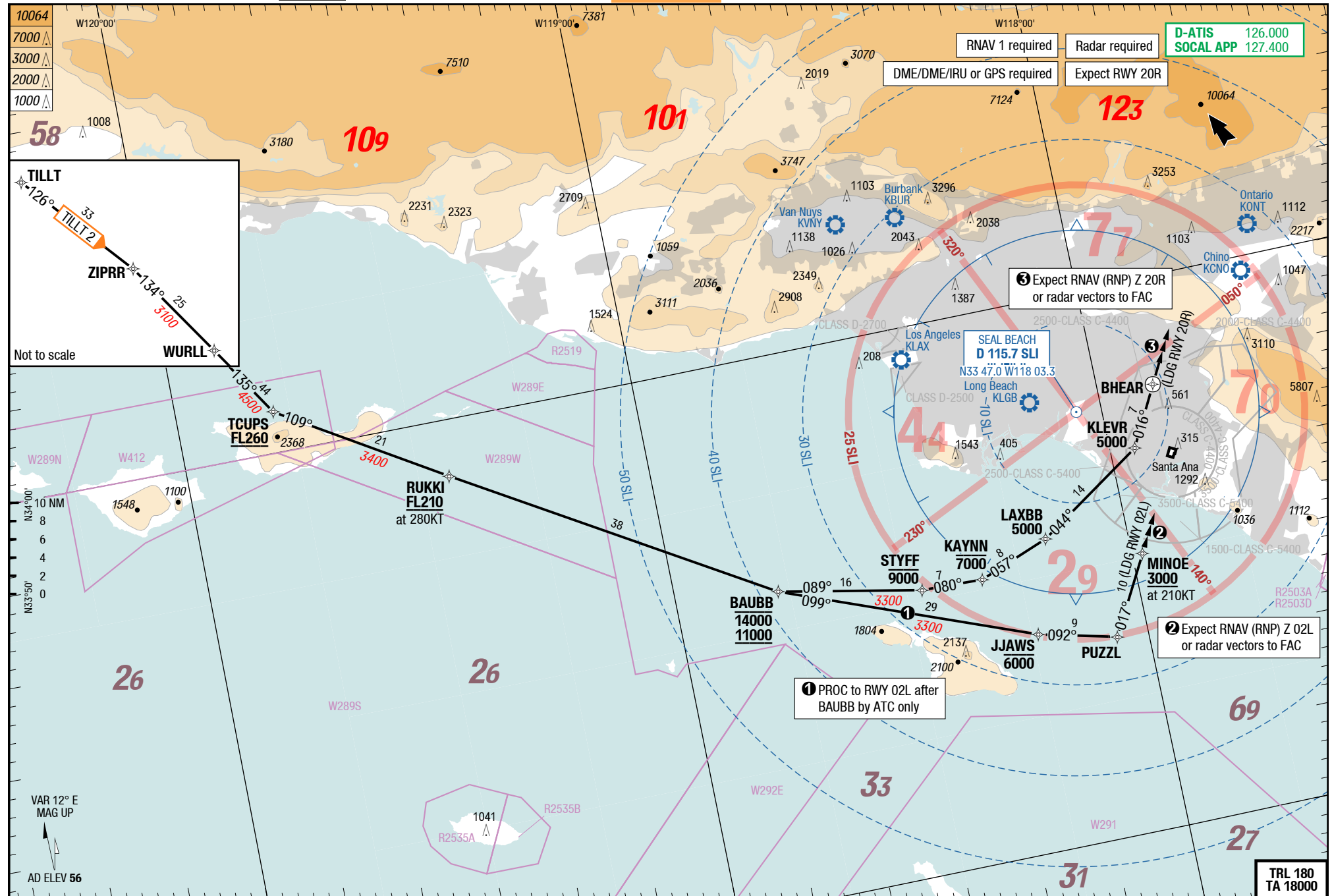
## TILLT 2 RNAV

# STAR

# STAR

John Wayne Airport-Orange County **Santa Ana** United States

## TILLT 2 RNAV



Changes: Page Number

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## SNA-KSNA

TANDY 4

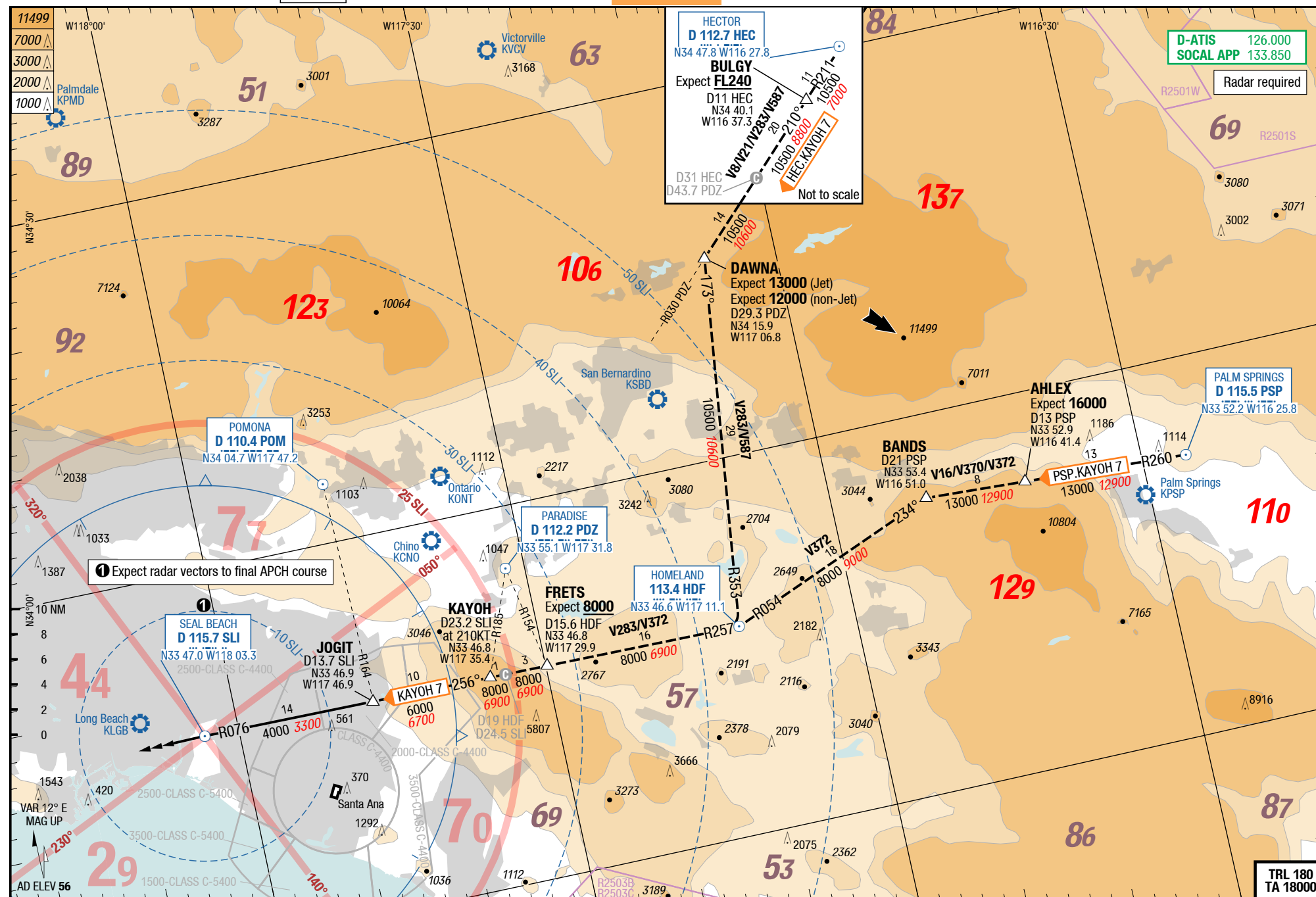
## KAYOH 7

# STAR

# STAR

TANDY 4

## KAYOH 7



Changes: Page Number

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## SNA-KSNA

United States **Santa Ana** John Wayne Airport-Orange County

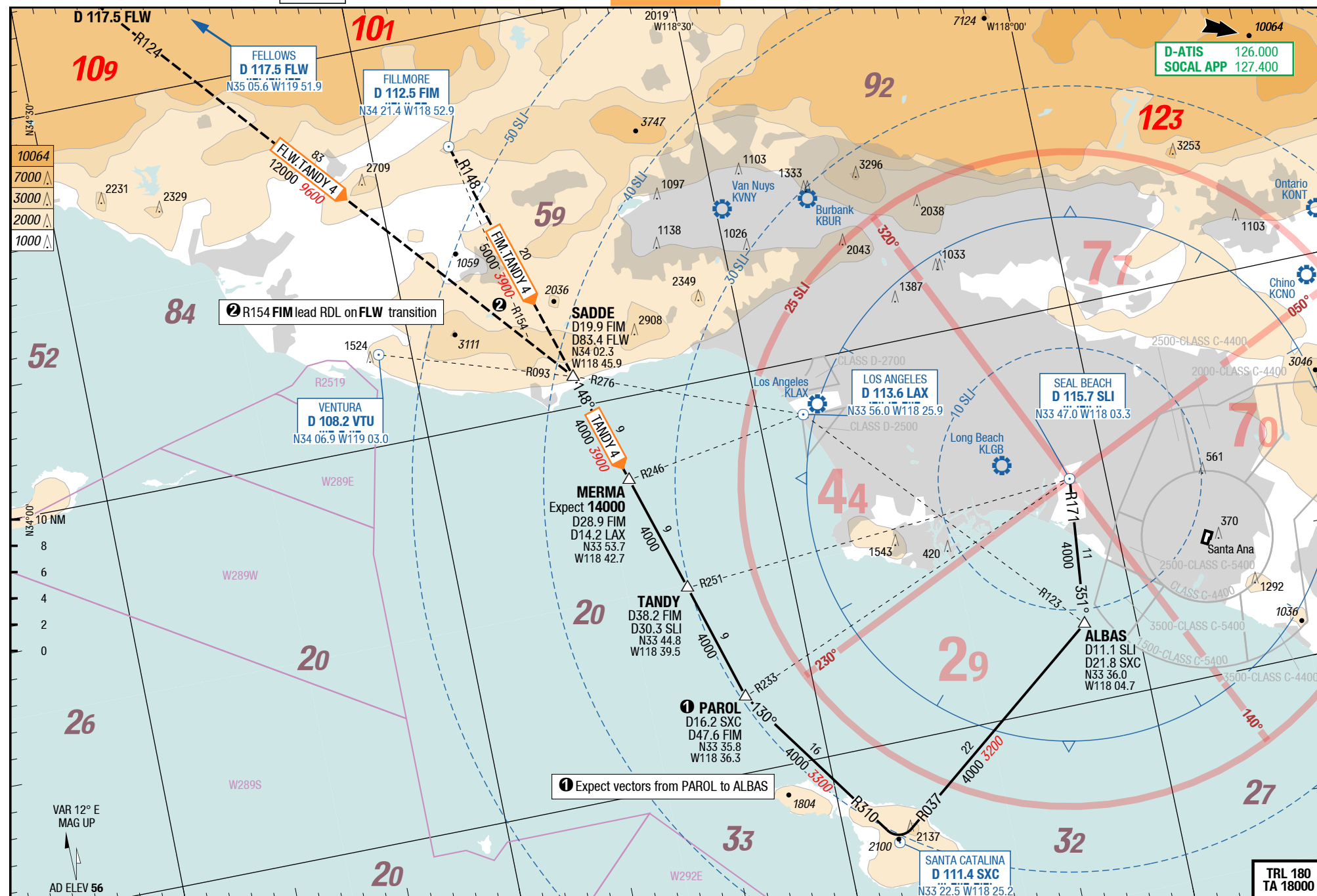
# STAR

# STAR

John Wayne Airport-Orange County **Santa Ana** United States

## TANDY 4

## TANDY 4



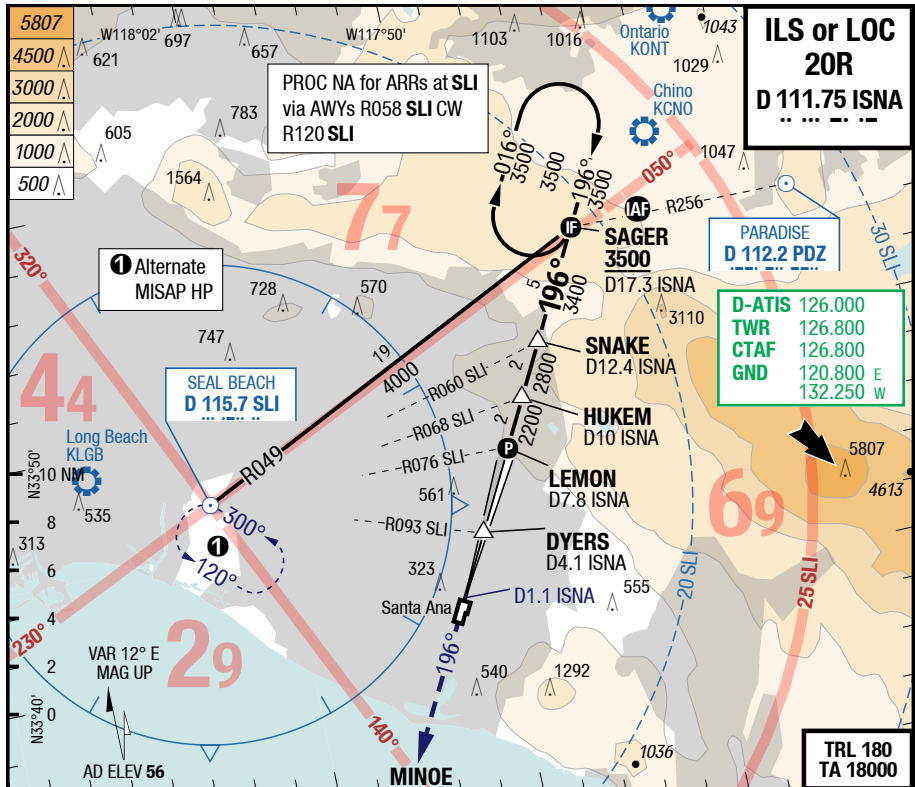
30-NOV-2017

SNA-KSNA

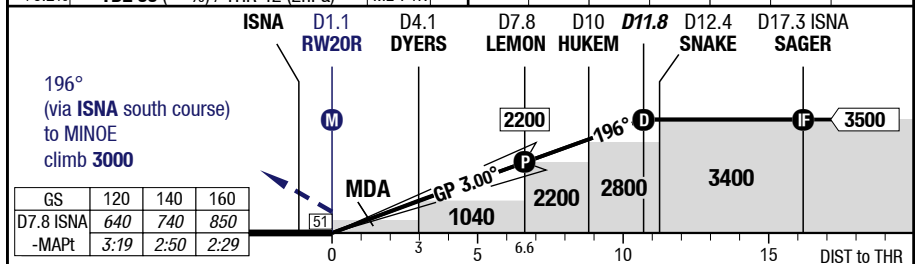
7-10

ILS or LOC 20R

IAC



60 HL	46 G 1738	732	3	4	5	6	8	11.8	LOC 3.00° D ISNA
+0.2%	TDZ 55 (---%) / THR 42 (2hPa)	ML-P1R	690	1010	1320	1640	2280	3500	



20R	Cat 1 <sup>1)</sup>	LOC	LOC wo DYERS	Circling TERPS	Circling <sup>2)</sup> TERPS
C	ft - ft/SM ft	200 - 1800R/0.5V 260	390 - 3500R/0.63V 440	790 - 2.25V 840	990 - 3.0V 1040
D	ft - ft/SM ft	200 - 1800R/0.5V 260	390 - 3500R/0.63V 440	990 - 2.5V 1040	1110 - 3.0V 1160

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

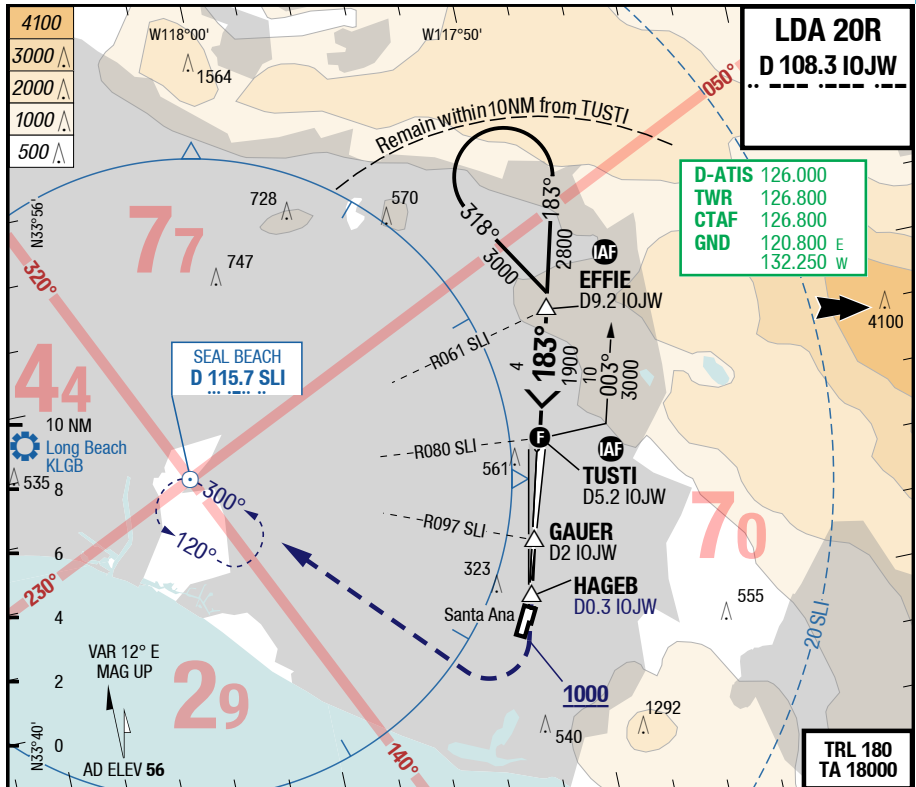
30-NOV-2017

SNA-KSNA

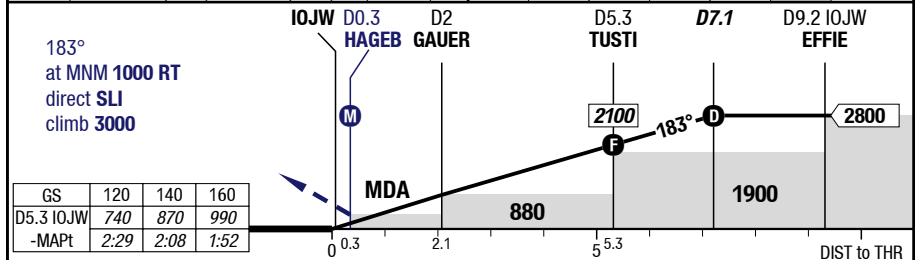
7-20

LDA 20R

IAC



60 HL	46 G 1738	732	20R	1	3	4	5	7.1	3.50°
+0.2%	TDZ 55 (---%) / THR 42 (2hPa)	ML-P1R		510	1250	1630	2000	2800	D 10JW
									183°
									RWY 196°



20R		LDA wo GP	LDA wo GP FUL QNH 1)			Circling NeW TERPS	Circling 1) NeW TERPS
C	ft - ft/SM ft	350 - 4000R/0.75V 400	390 - 5000R/1.0V 440			790 - 2.25V 840	830 - 2.5V 880
D	ft - ft/SM ft	350 - 4000R/0.75V 400	390 - 5000R/1.0V 440			1110 - 3.0V 1160	1150 - 3.0V 1200

1) Use with Fullerton (KFUL) QNH

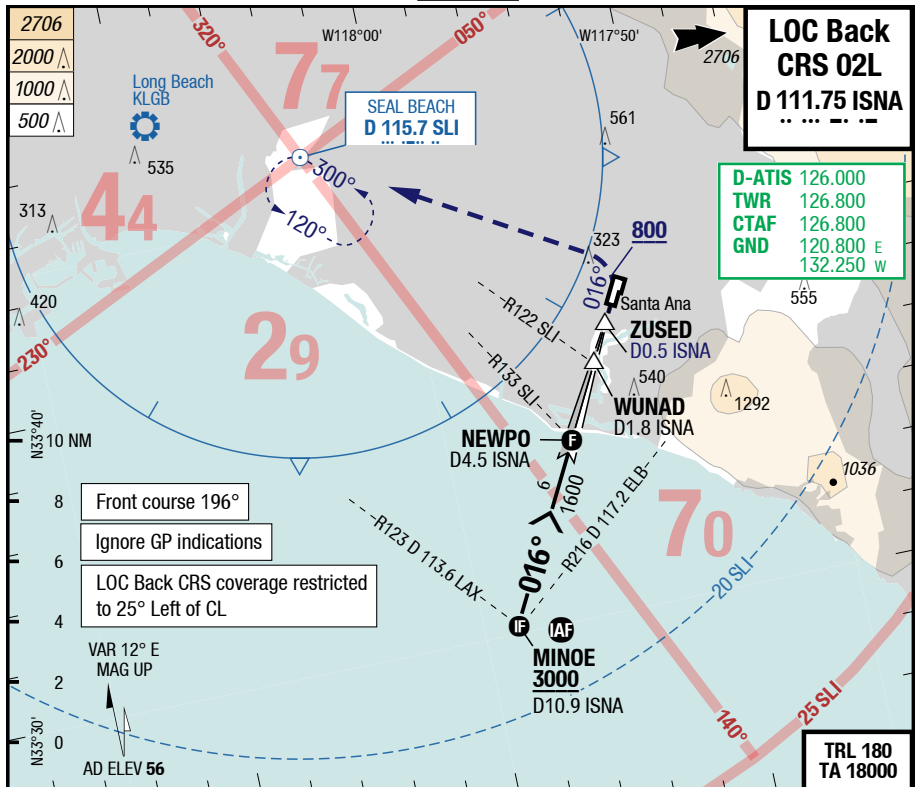
30-NOV-2017

SNA-KSNA

7-30

LOC Back CRS 02L

IAC

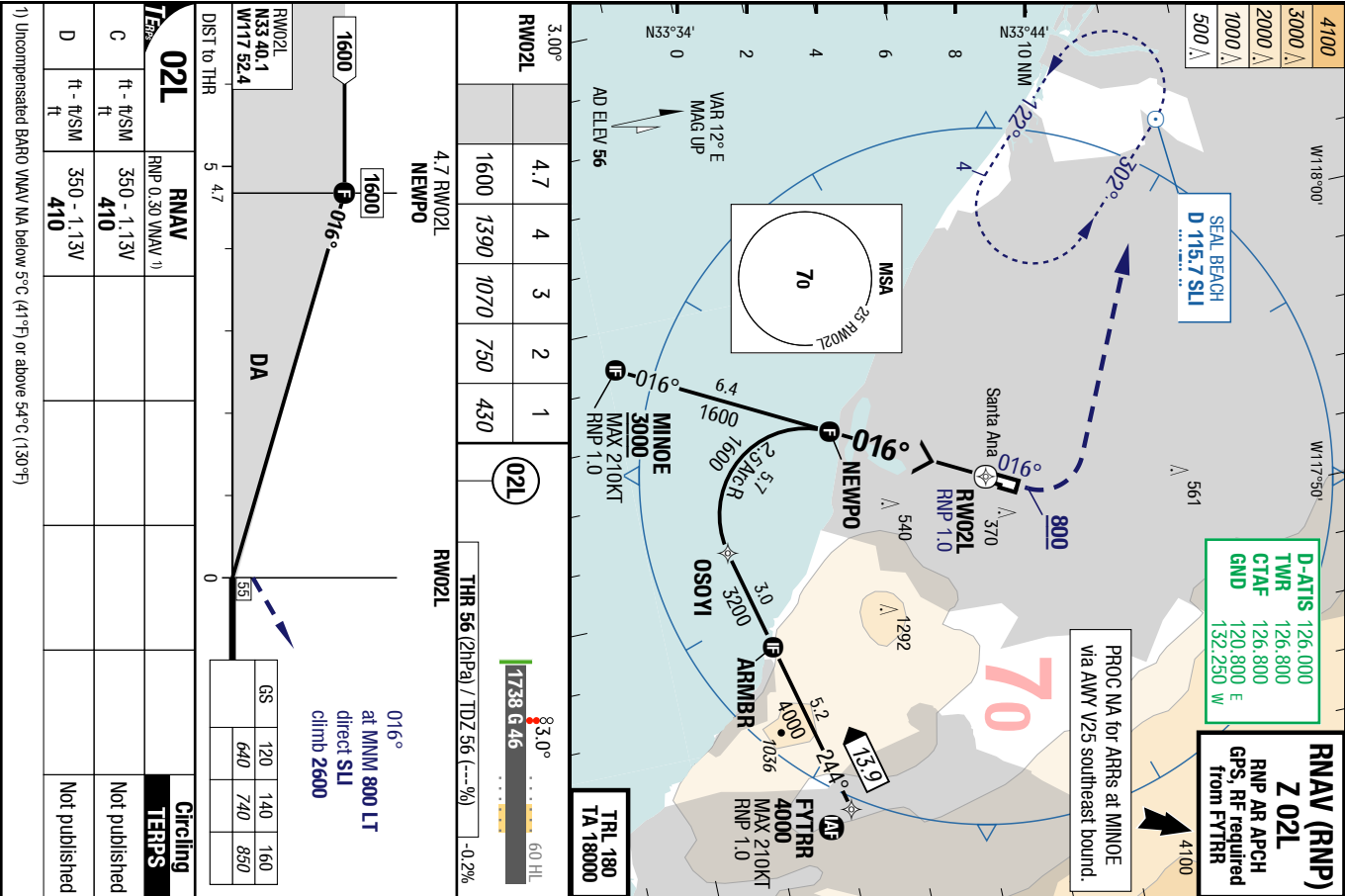


02L		LOC BC	LOC BC FUL QNH <sup>1)</sup>	LOC BC wo WUNAD	LOC BC FUL QNH wo WUNAD <sup>1)</sup>	Circling TERPS	Circling <sup>1)</sup> TERPS
C	ft - ft/SM ft	430 - 1.25V <b>480</b>	470 - 1.38V <b>520</b>	510 - 1.5V <b>560</b>	550 - 1.75V <b>600</b>	790 - 2.25V <b>840</b>	830 - 2.5V <b>880</b>
D	ft - ft/SM ft	430 - 1.25V <b>480</b>	470 - 1.38V <b>520</b>	510 - 1.5V <b>560</b>	550 - 1.75V <b>600</b>	1110 - 3.0V <b>1160</b>	1150 - 3.0V <b>1200</b>

1) Use with Fullerton (KFUL) QNH

Changes: Note

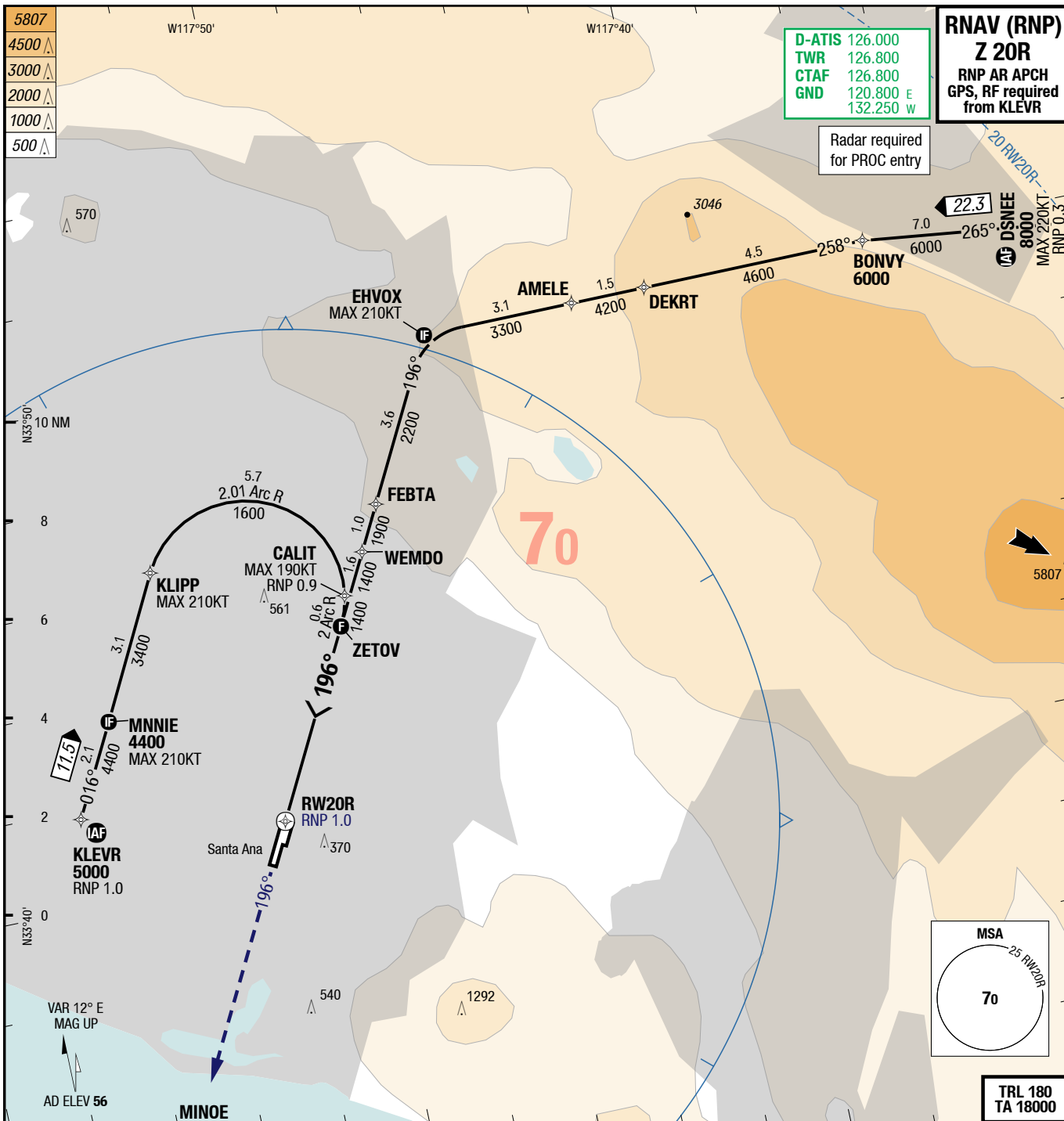
AMDT 13



IAC

IAC

RNAV (RNP) Z 02L

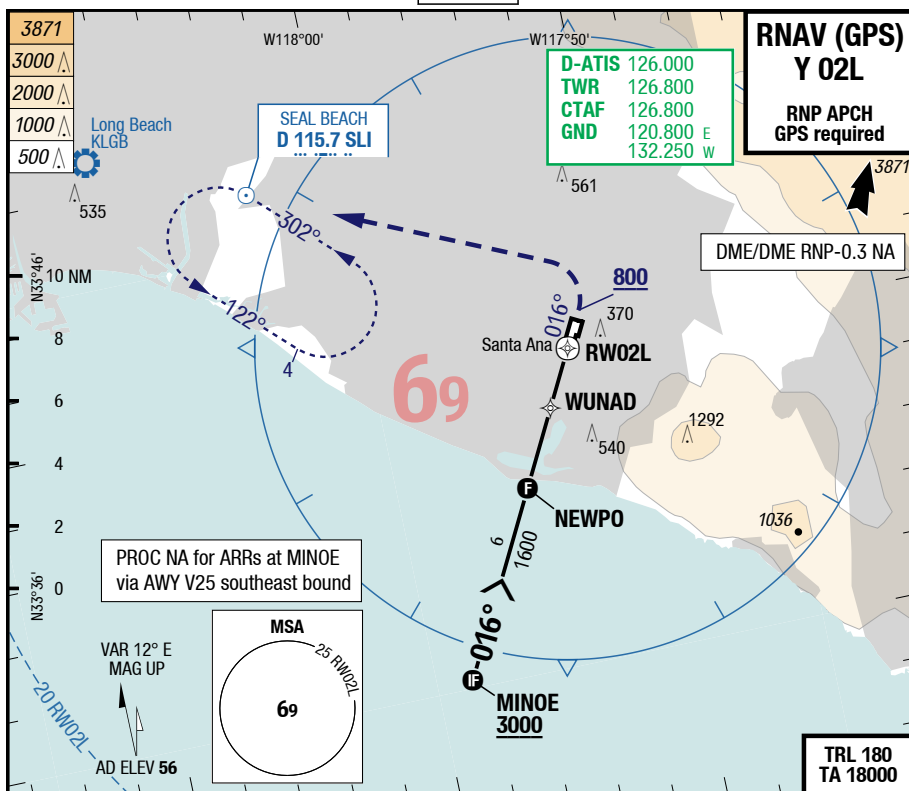






60 HL 46 G 1738 3.0° 732 +0.2% TDZ 55 (---%) / THR 42 (2hPa) ML-P1R		2	3	4	4.1	3.00° RW20R
RW20R		730	1050	1370	1400	
196° to MINOE climb 3000		4.1 RW20R ZETOV				
GS 120 140 160 640 740 850		1400 1400 196° 4.1 DIST to THR				
20R		RNAV RNP 0.11 VNAV 1)	RNAV RNP 0.15 VNAV 1)	RNAV RNP 0.30 VNAV 1)	Circling TERPS	
C	ft - ft/SM ft	330 - 3000R/0.63V 380	510 - 1.25V 570	570 - 1.5V 620	Not published	
D	ft - ft/SM ft	330 - 3000R/0.63V 380	510 - 1.25V 570	570 - 1.5V 620	Not published	

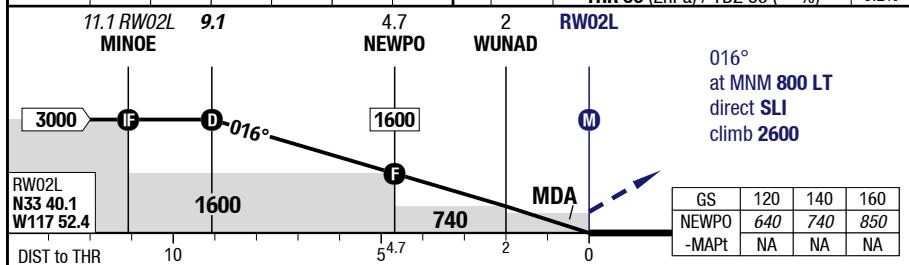
1) Uncompensated BARO VNAV NA below 5°C (41°F) or above 54°C (130°F)

## SNA-KSNA

7-70

**RNAV (GPS) Y 02L**

3.00° <b>RW02L</b>	9.1	8	6	5	4	3		 3.0°  60 HL
	3000	2660	2030	1710	1390	1070		 1738 G 46
<b>THR 56 (2hPa) / IDZ 56 (---%)</b>								-0.2%



02L		RNAV GPS LNAV	RNAV GPS LNAV FUL QNH <sup>1)</sup>			Circling <i>New</i> TERPS	Circling <sup>1)</sup> <i>New</i> TERPS
C	ft - ft/SM ft	470 - 1.38V <b>520</b>	510 - 1.5V <b>560</b>			790 - 2.25V <b>840</b>	830 - 2.5V <b>880</b>
D	ft - ft/SM ft	470 - 1.38V <b>520</b>	510 - 1.5V <b>560</b>			1110 - 3.0V <b>1160</b>	1150 - 3.0V <b>1200</b>

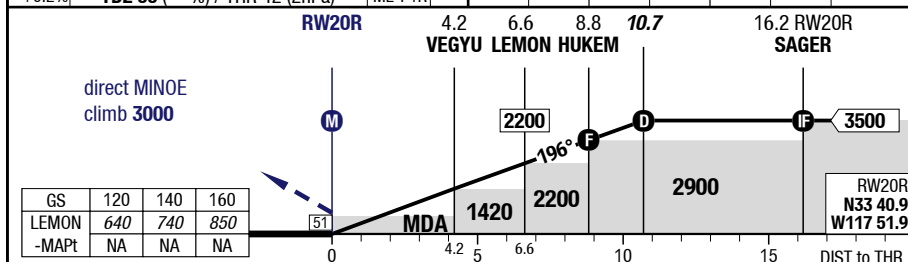
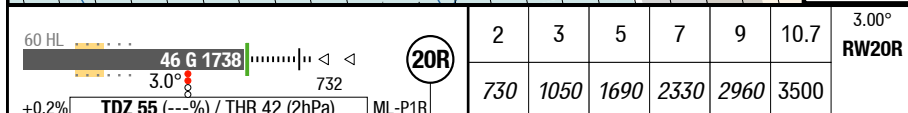
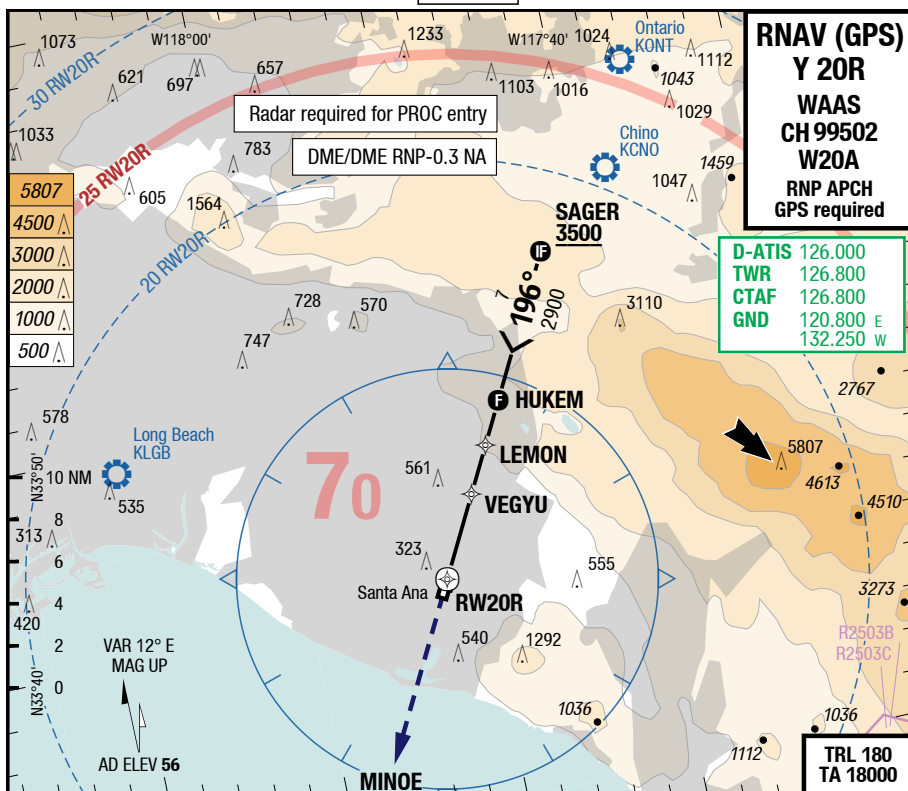
1) Use with Fullerton (KFUL) QNH



## SNA-KSNA

7-80

## RNAV (GPS) Y 20R



TERPS 20R		RNAV GPS LPV 1)	RNAV GPS VNAV 2)	RNAV GPS LNAV			Circling New TERPS
C	ft - ft/SM ft	200 - 1800R/0.5V 260	470 - 6000R/1.25V 520	530 - 5500R/1.0V 580			790 - 2.25V 840
D	ft - ft/SM ft	200 - 1800R/0.5V 260	470 - 6000R/1.25V 520	530 - 5500R/1.0V 580			1110 - 3.0V 1160

1) FD or AP or HGS to DA required, else use 2400ft or 0.5SM  
2) Uncompensated BARO VNAV NA below 5°C (41°F) or above 54°C (130°F)