

List of pages in this Trip Kit

Trip Kit Index

Airport Information For KSFO

Terminal Charts For KSFO

Revision Letter For Cycle 07-2019

Change Notices

Notebook

General Information

Location: SAN FRANCISCO CA USA
ICAO/IATA: KSFO / SFO
Lat/Long: N37° 37.1', W122° 22.5'
Elevation: 13 ft

Airport Use: Public
Daylight Savings: Observed
UTC Conversion: +8:00 = UTC
Magnetic Variation: 14.0° E
Sectional Chart: San Francisco

Fuel Types: Jet A
Oxygen Types: HP Bottle, LP Bottle
Repair Types: Major Airframe, Major Engine
Customs: Upon Prior Request
Airport Type: IFR
Landing Fee: Yes
Control Tower: Yes
Jet Start Unit: Yes
LLWS Alert: Yes
Beacon: Yes

Sunrise: 1336 Z
Sunset: 0244 Z

Runway Information

Runway: 01L
Length x Width: 7650 ft x 200 ft
Surface Type: asphalt
TDZ-Elev: 11 ft
Lighting: Edge, Centerline, REIL
Displaced Threshold: 640 ft

Runway: 01R
Length x Width: 8650 ft x 200 ft
Surface Type: asphalt
TDZ-Elev: 11 ft
Lighting: Edge, Centerline, REIL
Displaced Threshold: 560 ft

Runway: 10L
Length x Width: 11870 ft x 200 ft
Surface Type: asphalt
TDZ-Elev: 7 ft
Lighting: Edge, Centerline, REIL

Runway: 10R

Length x Width: 11381 ft x 200 ft
Surface Type: asphalt
TDZ-Elev: 8 ft
Lighting: Edge, Centerline

Runway: 19L
Length x Width: 8650 ft x 200 ft
Surface Type: asphalt
TDZ-Elev: 11 ft
Lighting: Edge, ALS, Centerline, TDZ

Runway: 19R
Length x Width: 7650 ft x 200 ft
Surface Type: asphalt
TDZ-Elev: 11 ft
Lighting: Edge, Centerline

Runway: 28L
Length x Width: 11381 ft x 200 ft
Surface Type: asphalt
TDZ-Elev: 13 ft
Lighting: Edge, ALS, Centerline
Displaced Threshold: 300 ft

Runway: 28R
Length x Width: 11870 ft x 200 ft
Surface Type: asphalt
TDZ-Elev: 13 ft
Lighting: Edge, ALS, Centerline, TDZ
Displaced Threshold: 300 ft

Communication Information

ATIS: 118.850
ATIS: 115.800
ATIS: 113.700
San Francisco Tower: 125.150
San Francisco Tower: 127.675
San Francisco Tower: 128.650 Secondary
San Francisco Tower: 120.500
San Francisco Ground: 128.650 Secondary
San Francisco Ground: 121.800
San Francisco Clearance Delivery: 118.200
San Francisco Clearance Pre-Taxi: 118.200
Norcal Approach: 133.950 Secondary
Norcal Approach: 128.575 Arrival Service
Norcal Approach: 128.325
Norcal Approach: 134.500 Initial Contact
Norcal Terminal Control Area: 135.100
Norcal Terminal Control Area: 134.500
Norcal Terminal Control Area: 127.000
Norcal Terminal Control Area: 125.350
Norcal Terminal Control Area: 120.900

Norcal Terminal Control Area: 133.950

Norcal Departure: 135.100

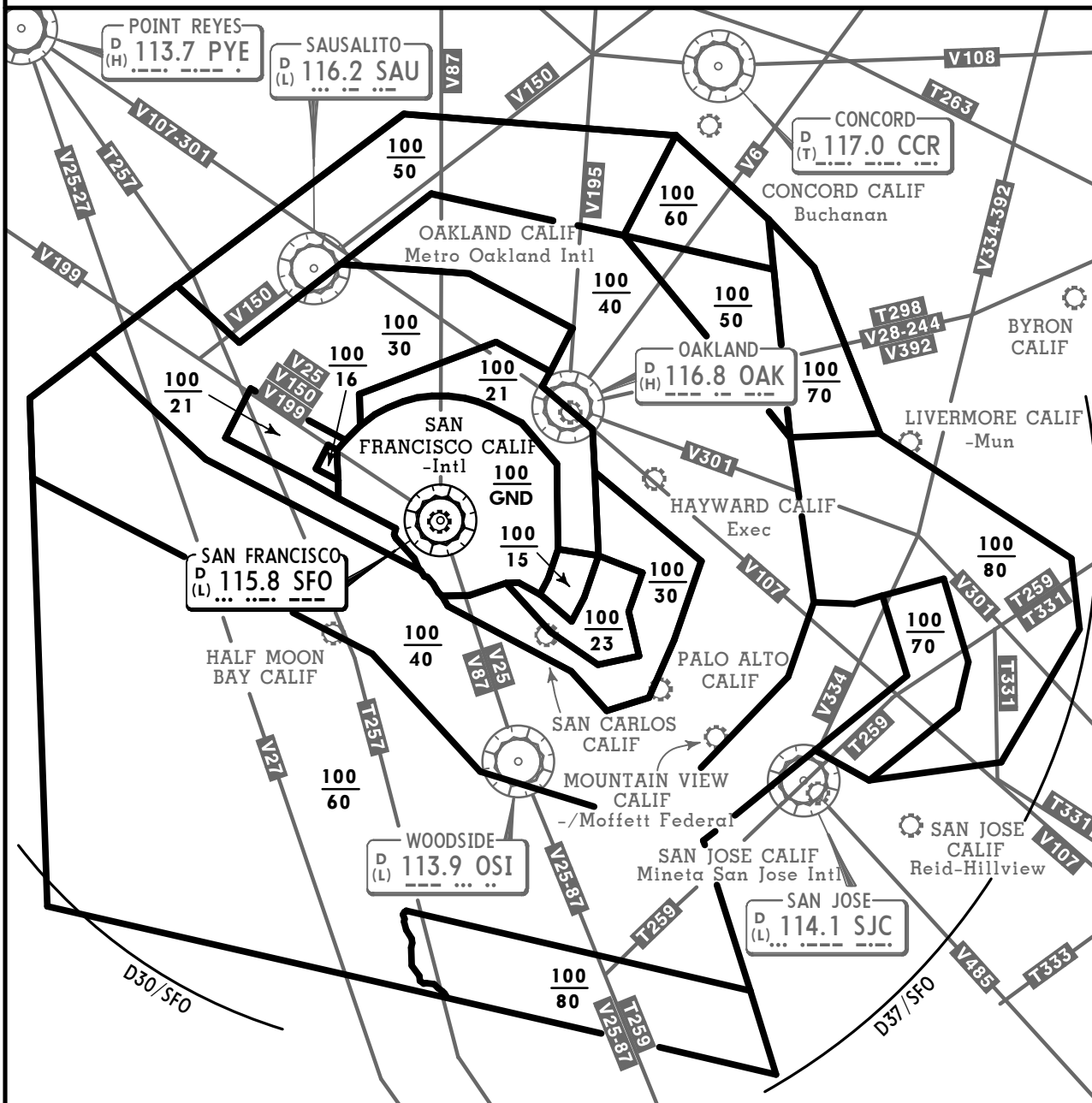
Norcal Departure: 120.900

San Francisco Intl UNICOM: 122.950

SAN FRANCISCO CLASS B AIRSPACE

CLASS B AIRSPACE VFR COMMUNICATIONS

NORCAL App 120.9 (NW) 127.0 (N) 125.35 (NE-E) 134.5 (SE) 135.65 (S) 135.1 (W)



FOR OPERATING RULES AND PILOT AND EQUIPMENT REQUIREMENTS
SEE FAR 91.131, 91.117 AND 91.215

FLIGHT PROCEDURES

IFR Flights - Aircraft operating within the San Francisco Class B Airspace must be operated in accordance with ATC clearances and instructions.

VFR Flights-

1. Arriving aircraft should contact the appropriate approach control on specified frequencies and in relation to geographic fixes shown on the accompanying chart. Although arriving aircraft may be operating beneath the floor of the Class B Airspace on initial contact, communications should be established with approach control in relation to the points indicated for sequencing and spacing purposes.
2. Aircraft departing the primary airports are requested to advise clearance delivery prior to taxiing of their intended altitude and direction of flight to depart the Class B Airspace. Aircraft departing from other than the primary airports whose route of flight would penetrate the Class B Airspace should give this information to ATC on the appropriate frequencies.
3. Aircraft desiring to transit Class B Airspace must obtain an ATC clearance to enter the Class B Airspace and will be handled on an ATC workload permitting basis.

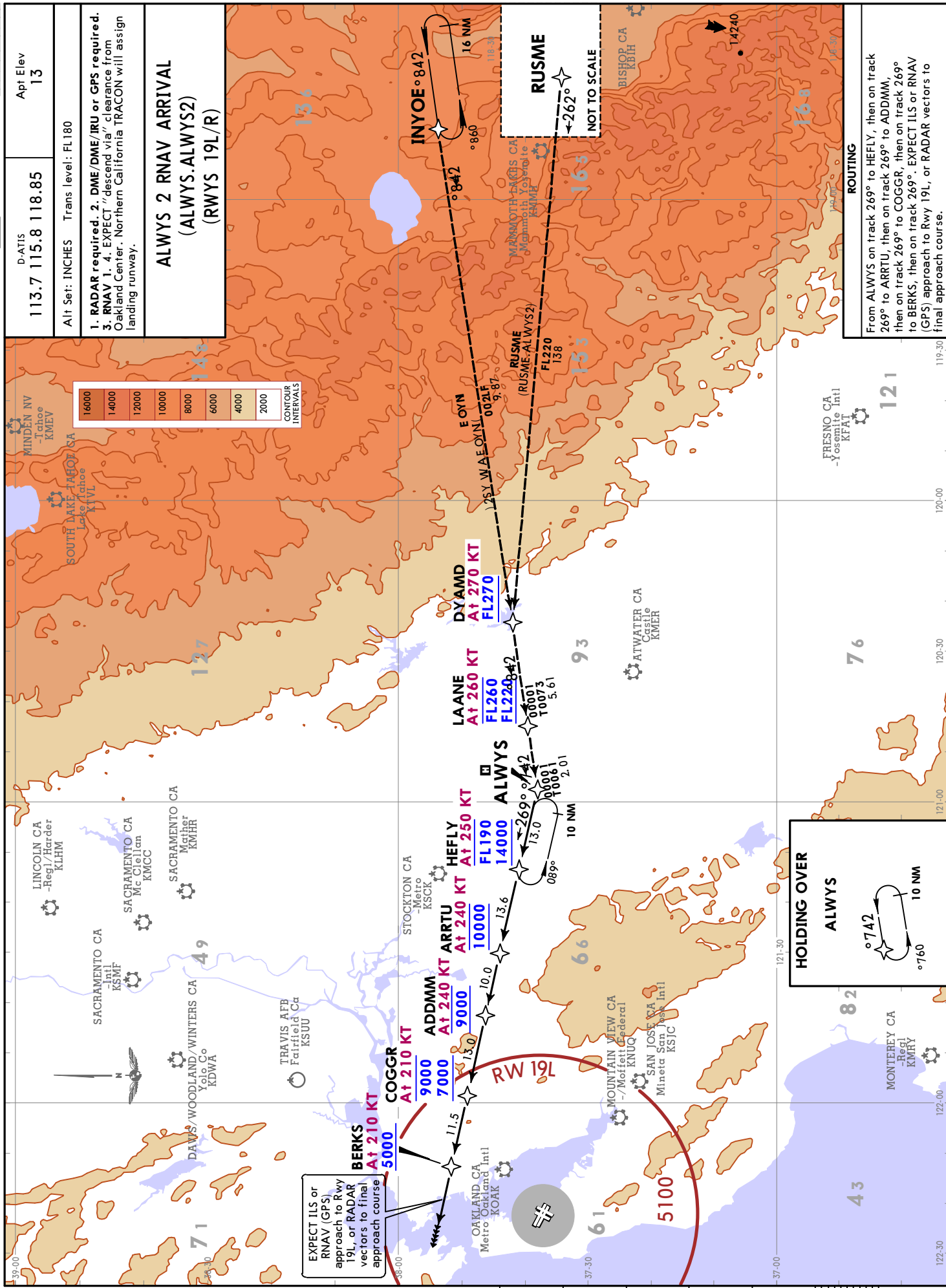
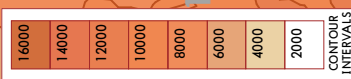
KSFO/SFO
SAN FRANCISCO INTL

D-ATIS
113.7 115.8 118.85
 Apt Elev
13

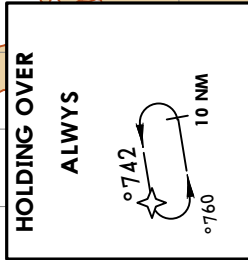
Alt Set: INCHES Trans level: FL180

1. RADAR required. 2. DME/DME/IRU or GPS required.
3. RNAV 1, 4. EXPECT "descend via" clearance from
 Oakland Center. Northern California TRACON will assign
 landing runway.

ALWAYS 2 RNAV ARRIVAL
(ALWAYS.ALWYS2)
(RWYS 19L/R)



EXPECT ILS or
 RNAV (GPS)
 approach to Rwy
 19L, or RADAR
 vectors to final
 approach course



ROUTING

From ALWAYS on track 269° to HEFLY, then on track
 269° to ARTTU, then on track 269° to ADDMM,
 then on track 269° to COGGR, then on track 269°
 to BERKS, then on track 269° . EXPECT ILS or RNAV
 (GPS) approach to Rwy 19L, or RADAR vectors to
 final approach course.

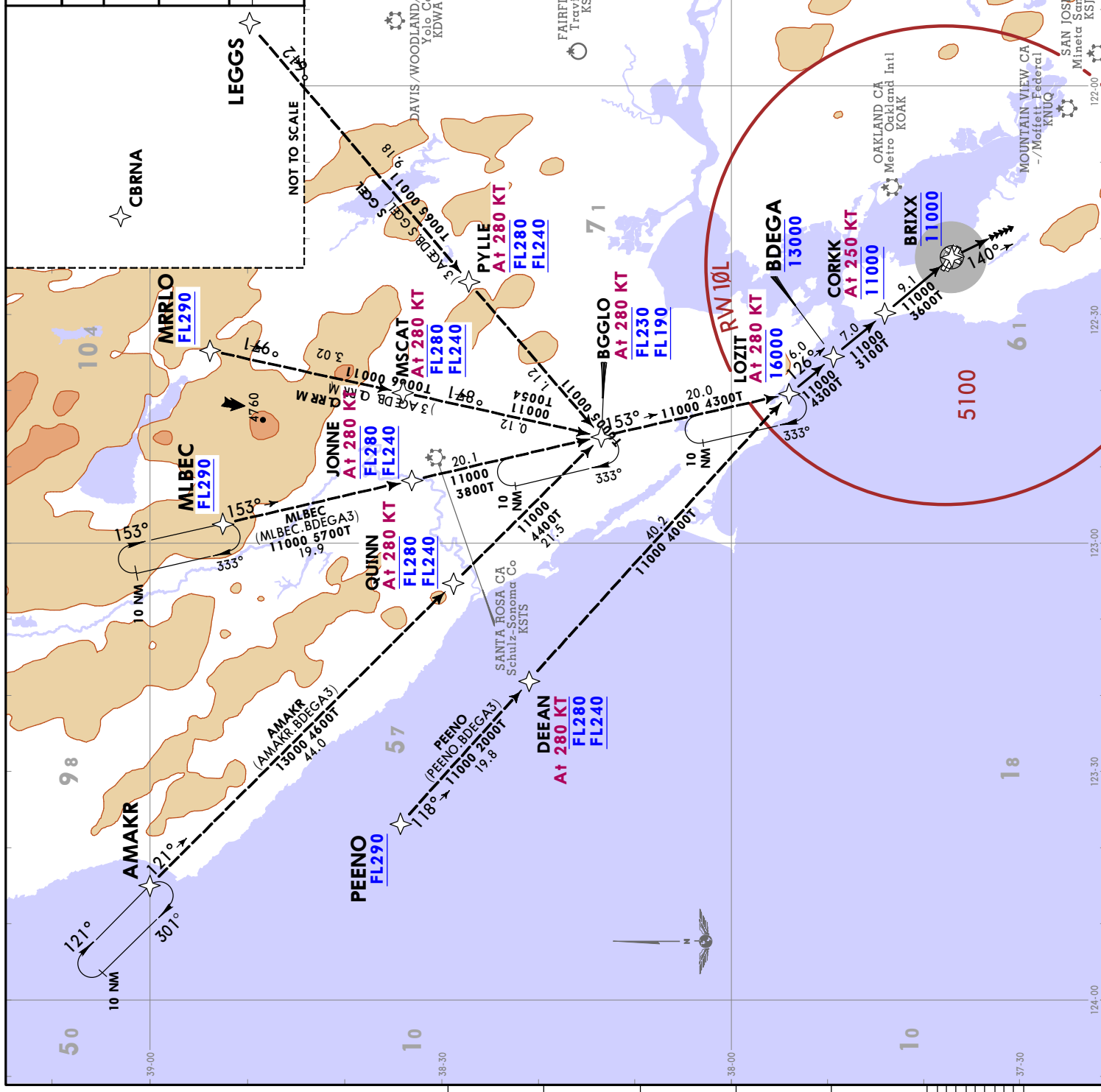
JEPPESEN SAN FRANCISCO, CALIF
RNAV STAR
 7 SEP 18 (10-2A) Eff 13 SEP

D-ATIS	113.7 115.8 118.85	Apt Elev	13
Alt Set:	INCHES	Trans level:	FL180
1. RADAR required.			
2. RNAV 1.			
3. DME/DME/IRU or GPS required.			
BDEGA 3 RNAV ARRIVAL (LOZIT.BDEGA3)			

ROUTING

From LOZIT on track 126° to BDEGA, then on track 126° to CORKK, then on track 126° to BRIXX, then on track 140°. EXPECT RADAR vectors to final approach course.

KSFO/SFO SAN FRANCISCO INTL



CHANGES: None
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KSFO/SFO
SAN FRANCISCO INTL

JEPPESEN
 28 DEC 18 10-2B EFT 3 Jan

SAN FRANCISCO, CALIF
STAR

BIG SUR 3 ARRIVAL (BSR.BSR3)

28 DEC 18 10-2C Eff 3 Jan

D-ATIS 113.7 115.8 118.85

Apt Elev 13

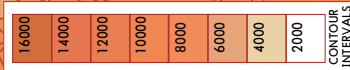
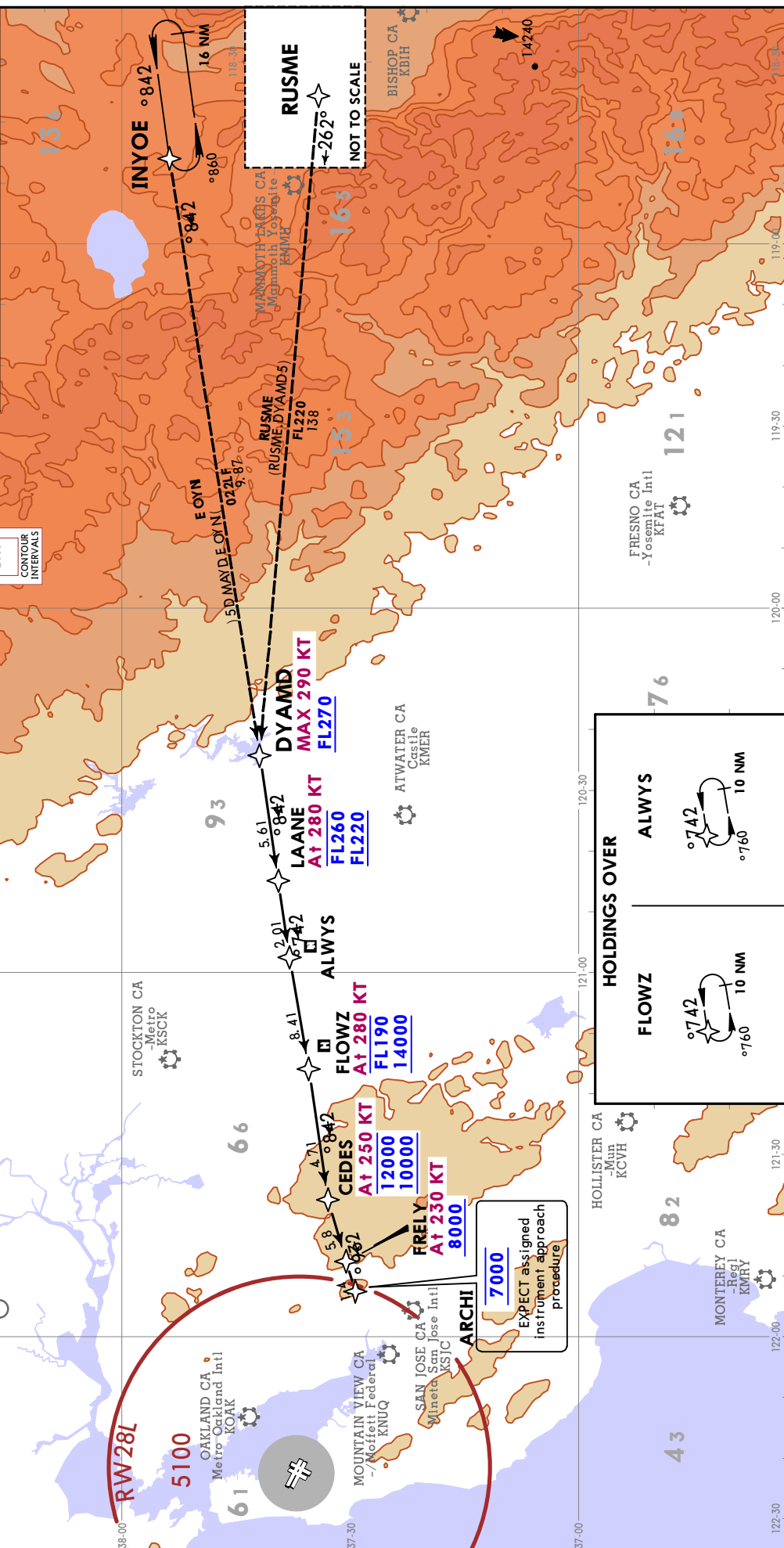
Alt Set: INCHES Trans level: FL180

- RADAR** required for non-GPS equipped aircraft.
- DME/DME/IRU** or **GPS** required. **3. RNAV 1.**
- EXPECT** to receive "descend via" clearance from Oakland Center. Northern California TRACON will assign landing runway.

DYAMD 5 RNAV ARRIVAL
(DYAMD.DYAMD5)
(RWYS 28L/R)

ROUTING

From DYAMD on track 248° to LAANE, then on track 247° to ALWAYS, then on track 247° to FLOWZ, then on track 248° to CEDES, then on track 239° to FRELY, then on track 239° to ARCHI. EXPECT assigned instrument approach procedure.



HOLDINGS OVER

FLOWZ	ALWAYS
<p>0742 0760 10 NM</p>	<p>0742 0760 10 NM</p>

EXPECT assigned instrument approach procedure

CHANGES: None

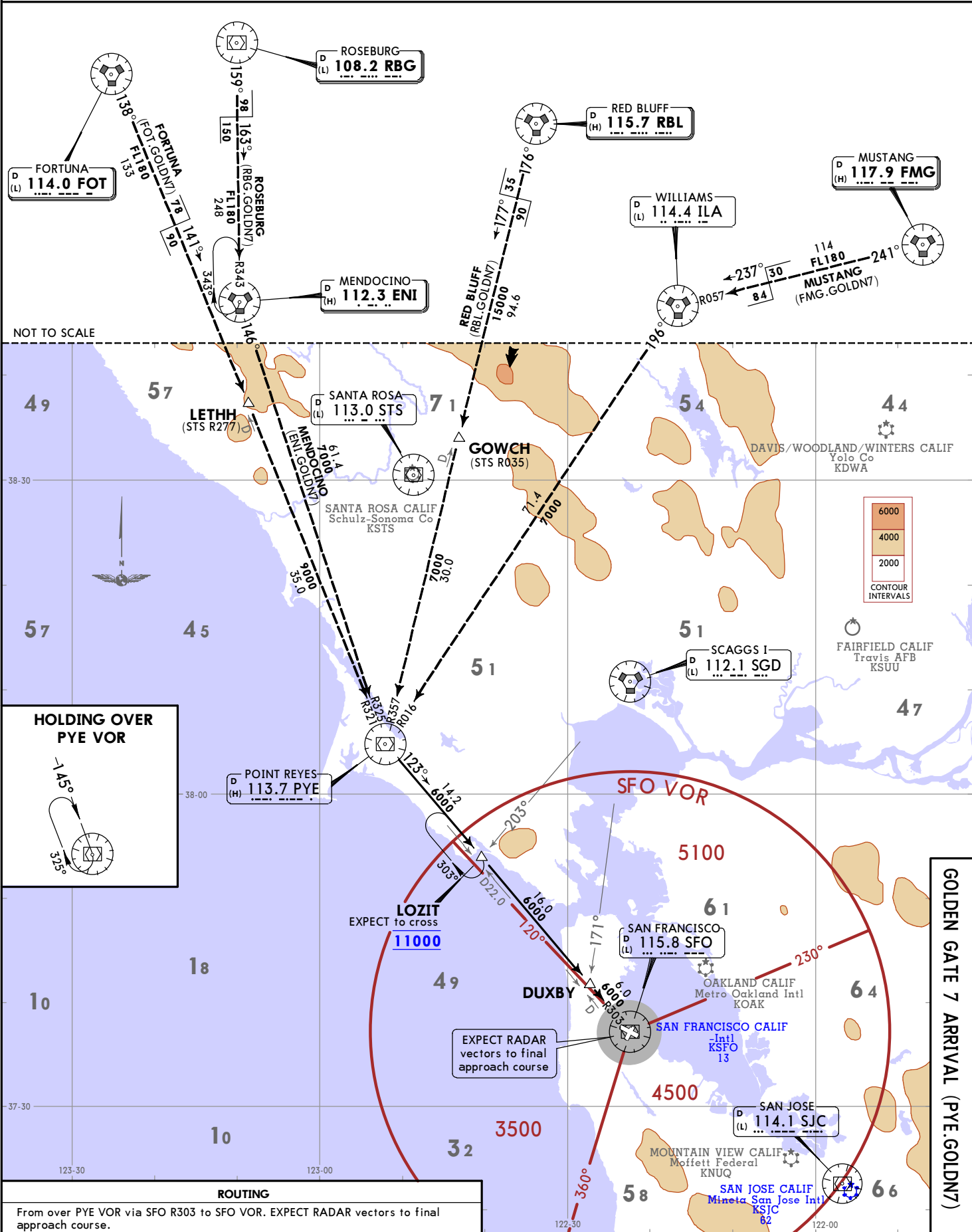
KSFO/SFO
SAN FRANCISCO INTL

D-ATIS
113.7 115.8 118.85

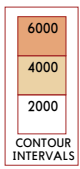
Apt Elev
See graphic

Alt Set: INCHES Trans level: FL180
1. RADAR required.
2. For use by turbojet aircraft only.

GOLDEN GATE 7 ARRIVAL (PYE.GOLDN7)



NOT TO SCALE



HOLDING OVER PYE VOR

ROUTING
From over PYE VOR via SFO R303 to SFO VOR. EXPECT RADAR vectors to final approach course.

JEPPesen
11 AUG 17 (10-2D) Eff 17 Aug

SAN FRANCISCO, CALIF
STAR

GOLDEN GATE 7 ARRIVAL (PYE.GOLDN7)

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JEPPESEN
10-2EI **EFF 28 Feb**
RNAV STAR

KSFO/SFO
SAN FRANCISCO INTL

SAN FRANCISCO, CALIF
RNAV STAR

D-ATIS
113.7 115.8 118.85

Apt Elev.
 See graphic

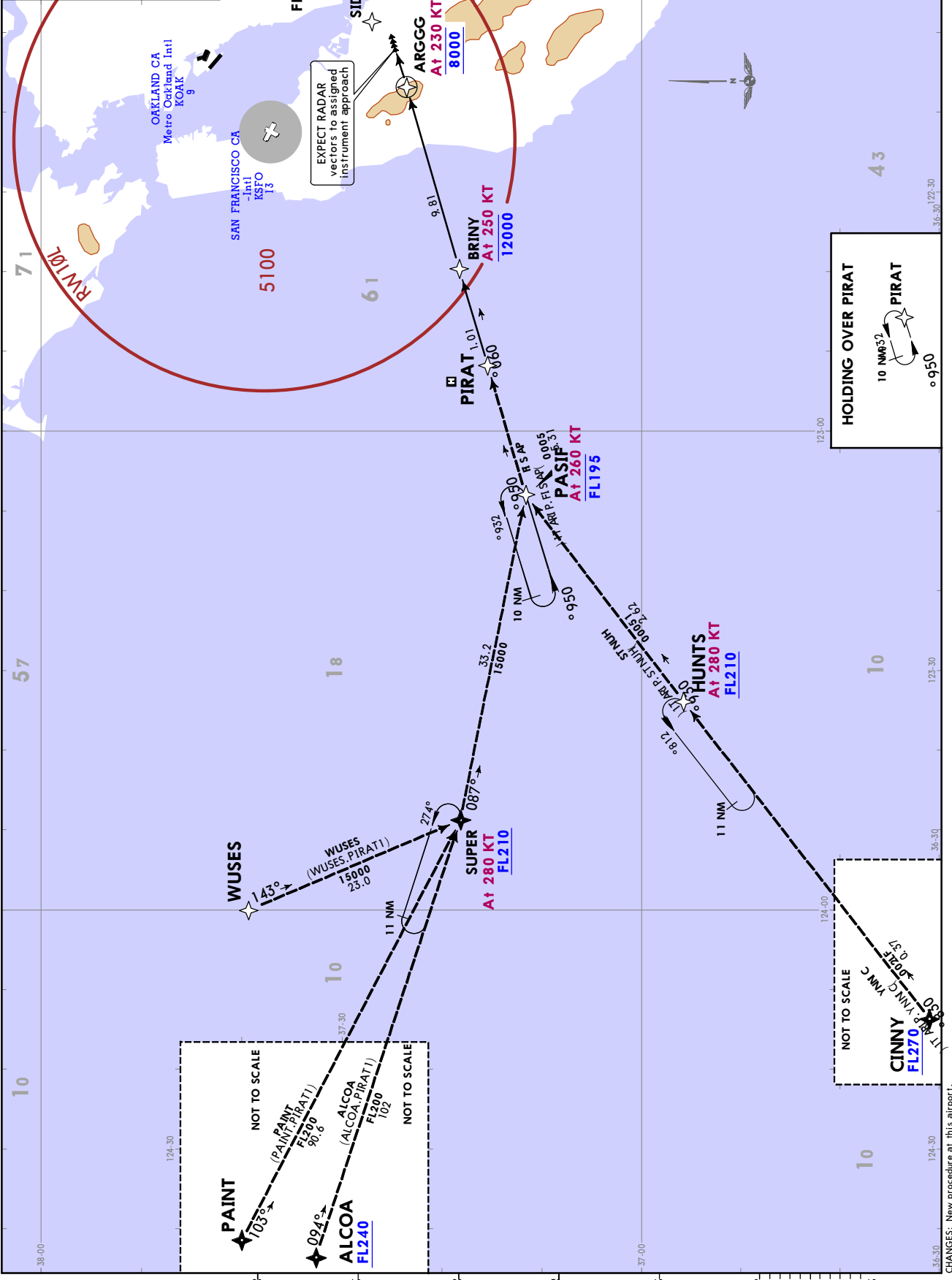
Alt Set: INCHES Trans level: FL180

1. **RADAR** required. 2. **GPS** required. 3. **RNAV 1**.
 4. Turboprop and turboprop aircraft only. 5. **EXPECT** RADAR
 Rwy 28L/R unless otherwise assigned by ATIS.

PIRAT 1 RNAV ARRIVAL
(PIRAT.PIRAT1)

ROUTING

From PIRAT on track 060° to BRINY, then on track
 060° to ARGGG, then on track 060°. **EXPECT** RADAR
 vectors to assigned instrument approach.



KSFO/SFO
SAN FRANCISCO INTL

JEPPESSEN 16 JUN 17 **10-2F** Eff 22 Jun

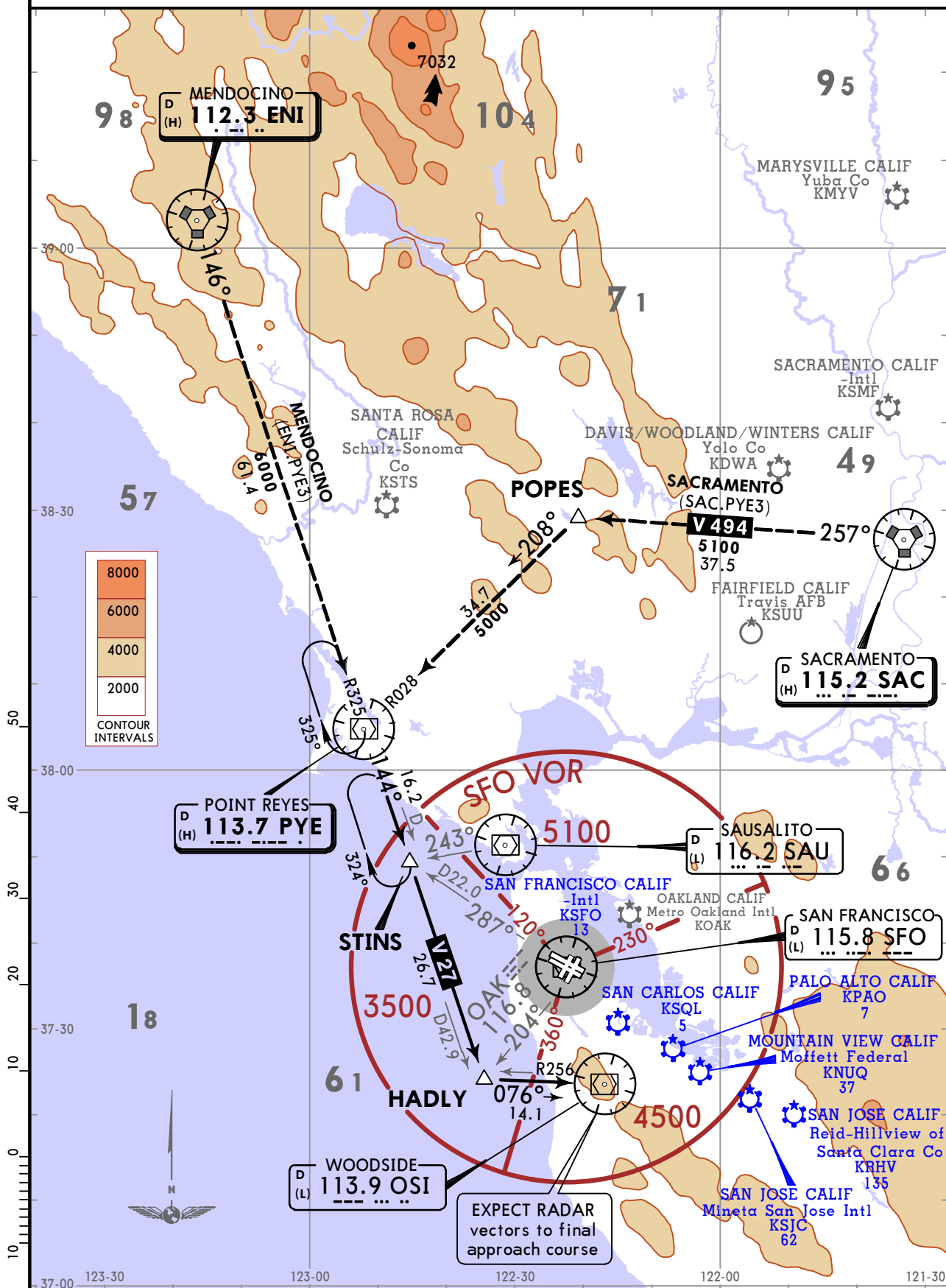
SAN FRANCISCO, CALIF
STAR

D-ATIS
113.7 115.8 118.85

Apt Elev
See graphic

Alt Set: INCHES Trans level: FL180
1. **RADAR required.**
2. SACRAMENTO Transition to be used only when assigned by ATC.

POINT REYES 3 ARRIVAL (PYE.PYE3)

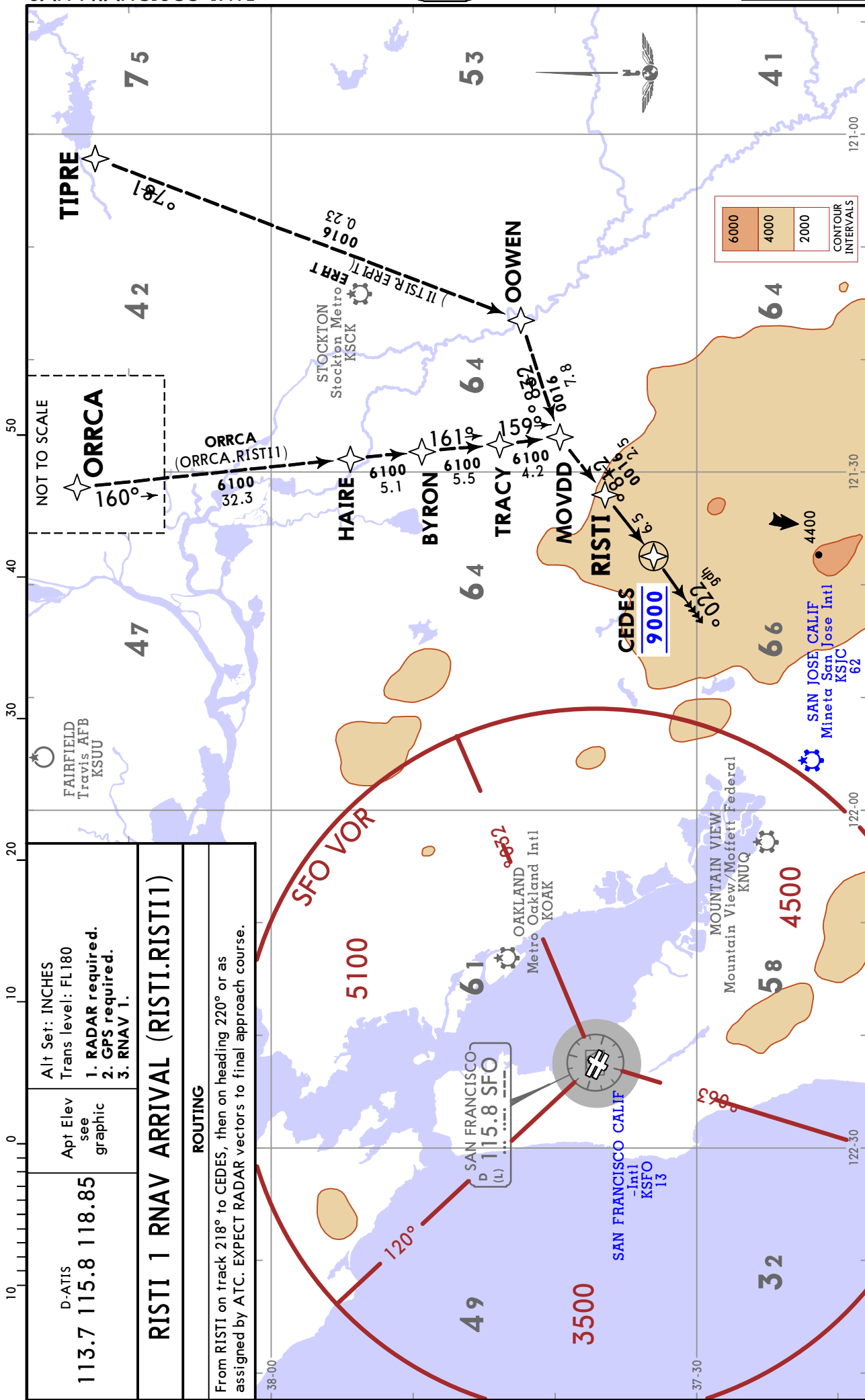


From over PYE VOR on PYE R144 to HADLY, then on OSI R256 to OSI VOR. EXPECT RADAR vectors to final approach course.

KSFO/SFO
SAN FRANCISCO INTL

JEPPESSEN
16 JUN 17 (10-2G)

SAN FRANCISCO, CALIF
Eff 22 Jun **RNAV STAR**



CHANGES: New procedure at this airport, RISTI 4 Arrival cancelled.

KSFO/SFO
SAN FRANCISCO INTL

JEPPESSEN
23 MAR 18 (10-2H) Eff 29 Mar

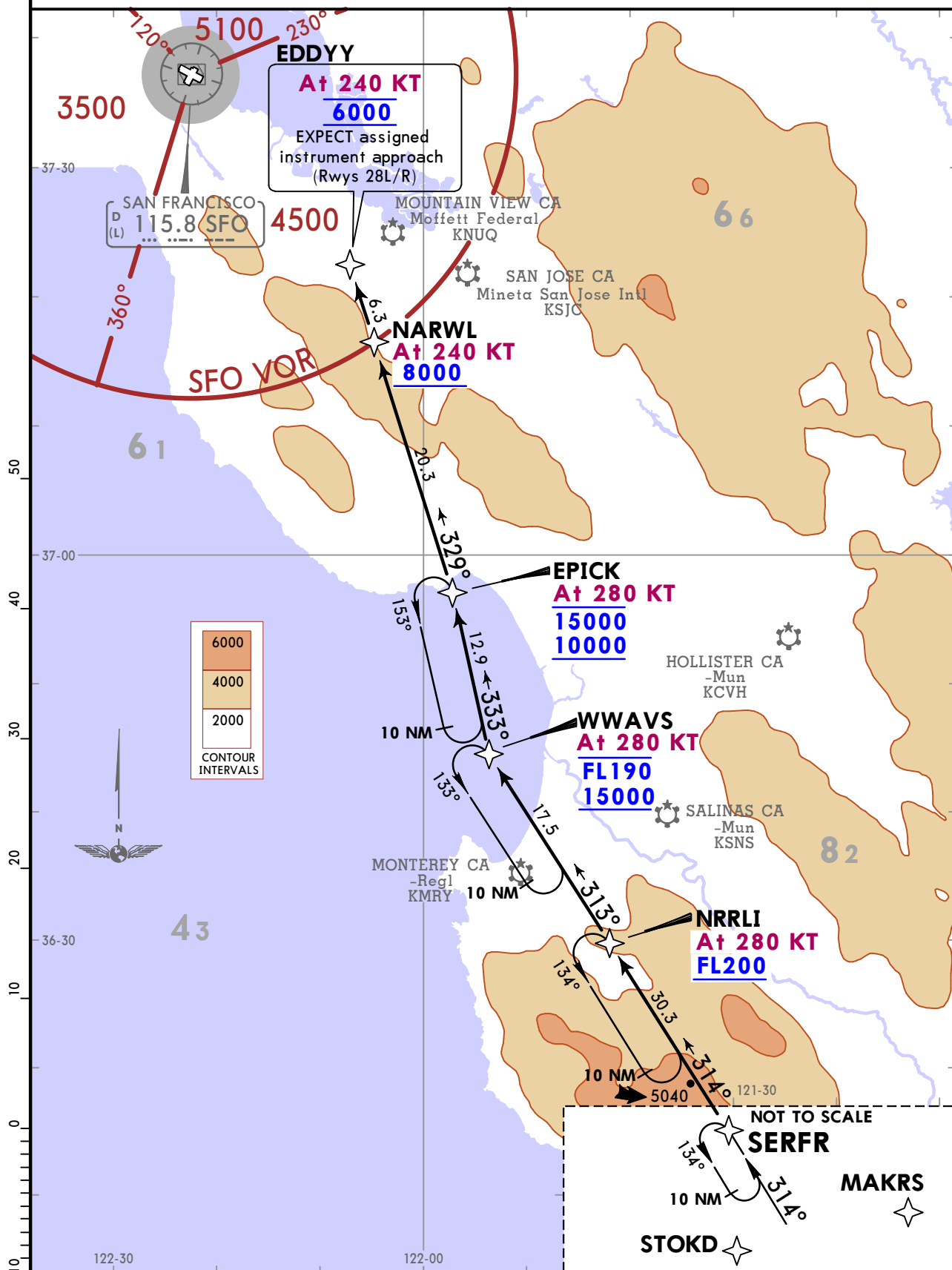
SAN FRANCISCO, CALIF
RNAV STAR

D-ATIS
113.7 115.8
118.85

Apt Elev
13

Alt Set: INCHES Trans level: FL180
1. RADAR required.
2. DME/DME/IRU or GPS required.
3. RNAV 1.
4. EXPECT to receive "Descend via" clearance from Oakland Center.
Northern California TRACON will assign landing runway.

SERFR 3 RNAV ARRIVAL (SERFR.SERFR3)



ROUTING

From SERFR on track 314° to NRRLI, then on track 313° to WWAVS, then on track 333° to EPICK, then on track 329° to NARWL, then on track 329° to EDDYY. EXPECT assigned instrument approach (Rwys 28L/R).

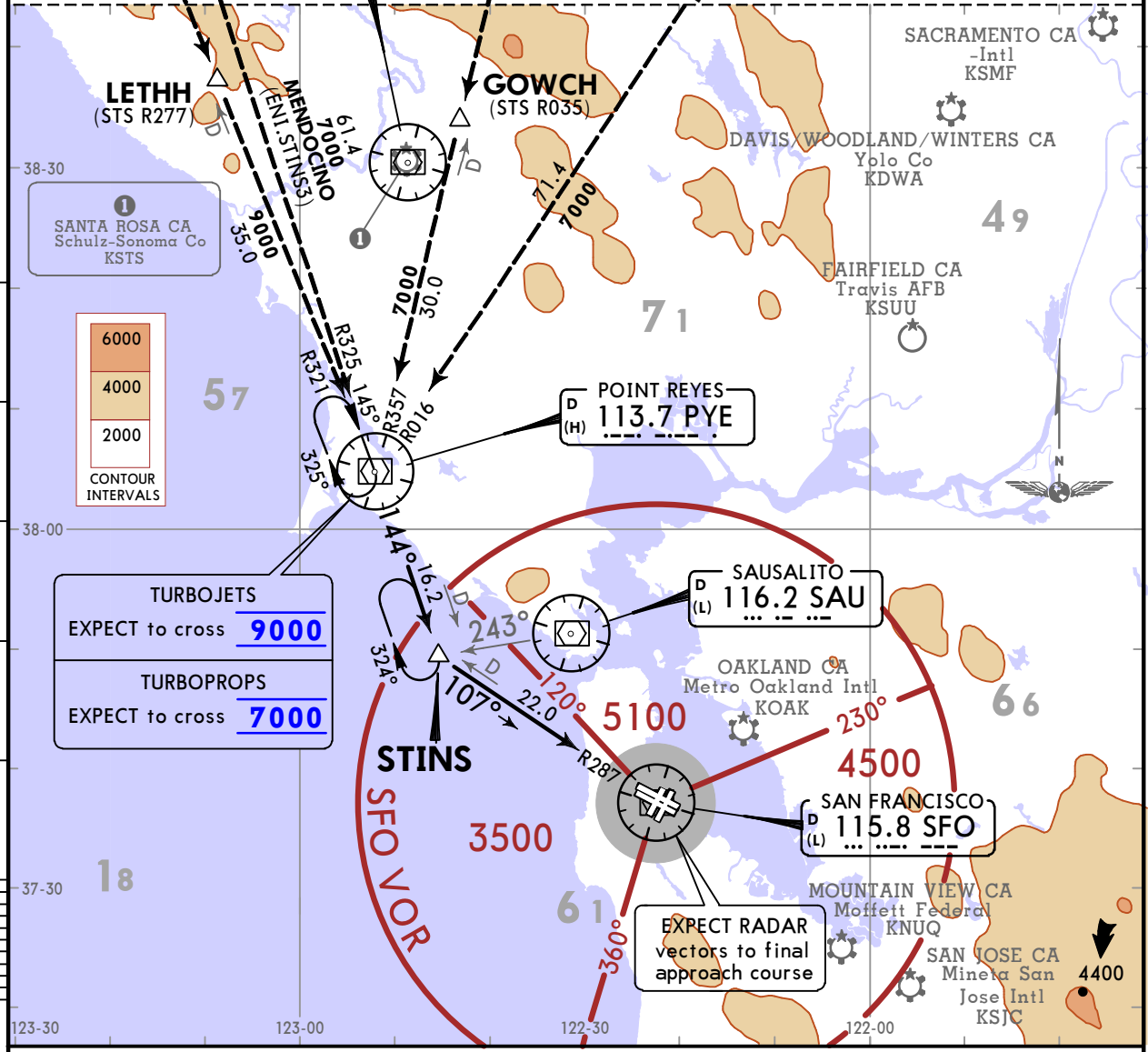
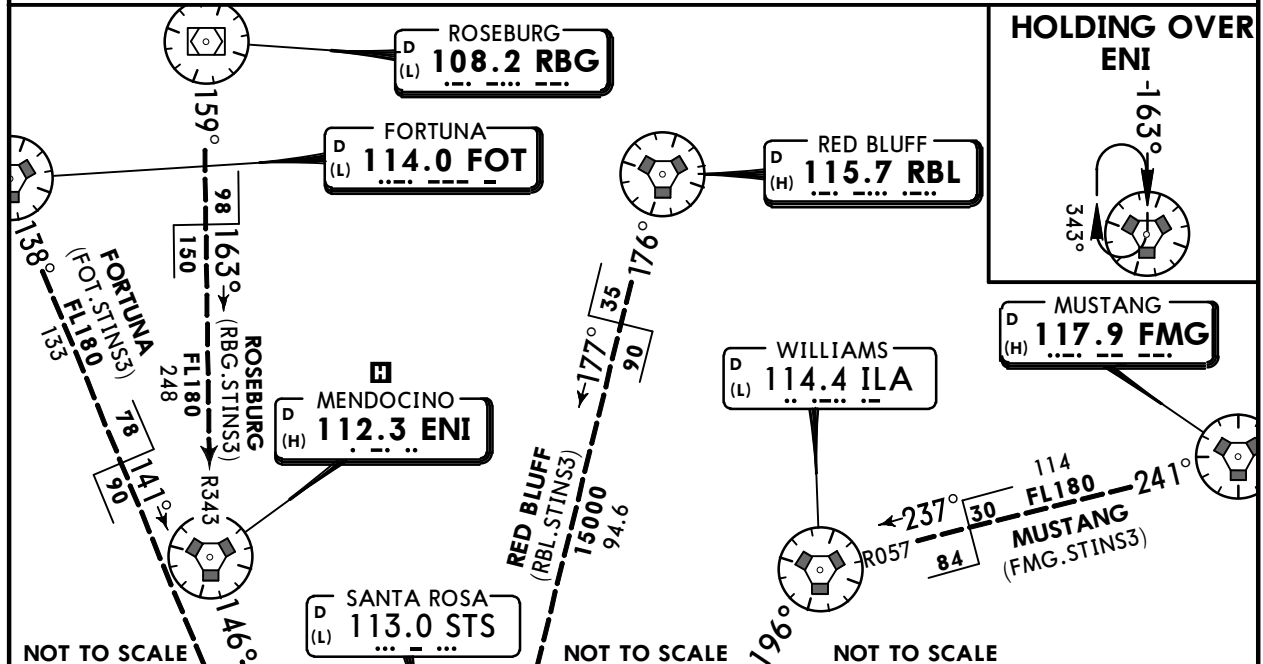
KSFO/SFO SAN FRANCISCO INTL

JEPPesen 23 MAR 18 **10-2J** Eff 29 Mar

SAN FRANCISCO, CALIF STAR

D-ATIS 113.7 115.8 118.85	Apt Elev 13	Alt Set: INCHES Trans level: FL180 RADAR required.
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STINS 3 ARRIVAL (PYE.STINS3)



ROUTING
From over PYE VOR via PYE R144 to STINS, then via SFO R287 to SFO VOR. EXPECT RADAR vectors to final approach course.

CHANGES: Procedure renumbered, GEHHI waypoint renamed PYLLE.

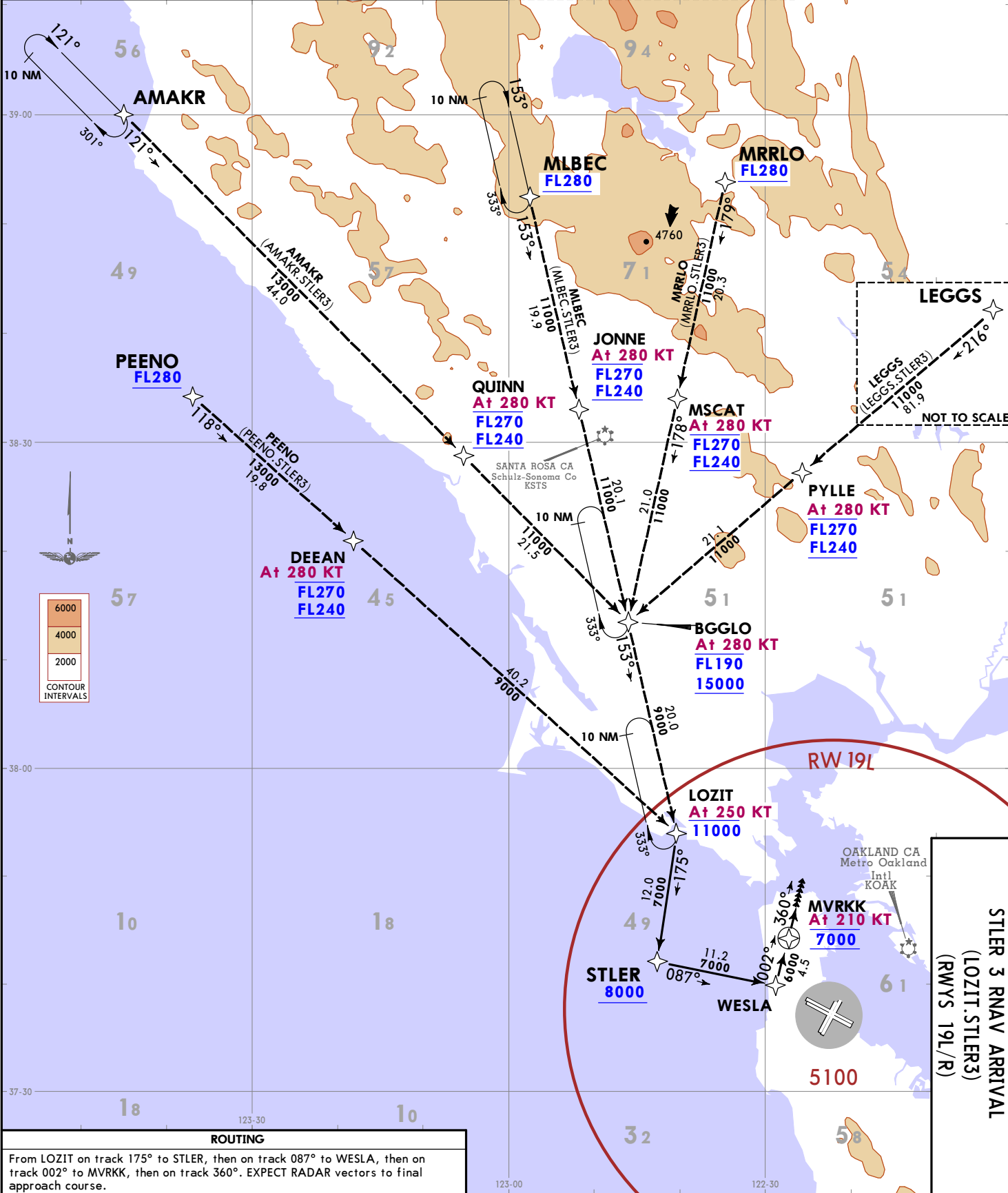
KSFO/SFO
SAN FRANCISCO INTL

D-ATIS 113.7 115.8 118.85 Apt Elev 13 Alt Set: INCHES Trans level: FL180

1. RADAR required. 2. DME/DME/IRU or GPS required. 3. RNAV 1.
4. PEENO transition: ATC assigned only.

STLER 3 RNAV ARRIVAL
(LOZIT.STLER3)
(RWYS 19L/R)

NOT TO SCALE



ROUTING
From LOZIT on track 175° to STLER, then on track 087° to WESLA, then on track 002° to MVRKK, then on track 360°. EXPECT RADAR vectors to final approach course.

JEPPESSEN
 SAN FRANCISCO, CALIF
 7 SEP 18 (10-2K) EFF 13 Sep RNAV STAR

KSFO/SFO
SAN FRANCISCO INTL

JEPPESEN
7 SEP 18 **10-2L** Eff 13 Sep

SAN FRANCISCO, CALIF

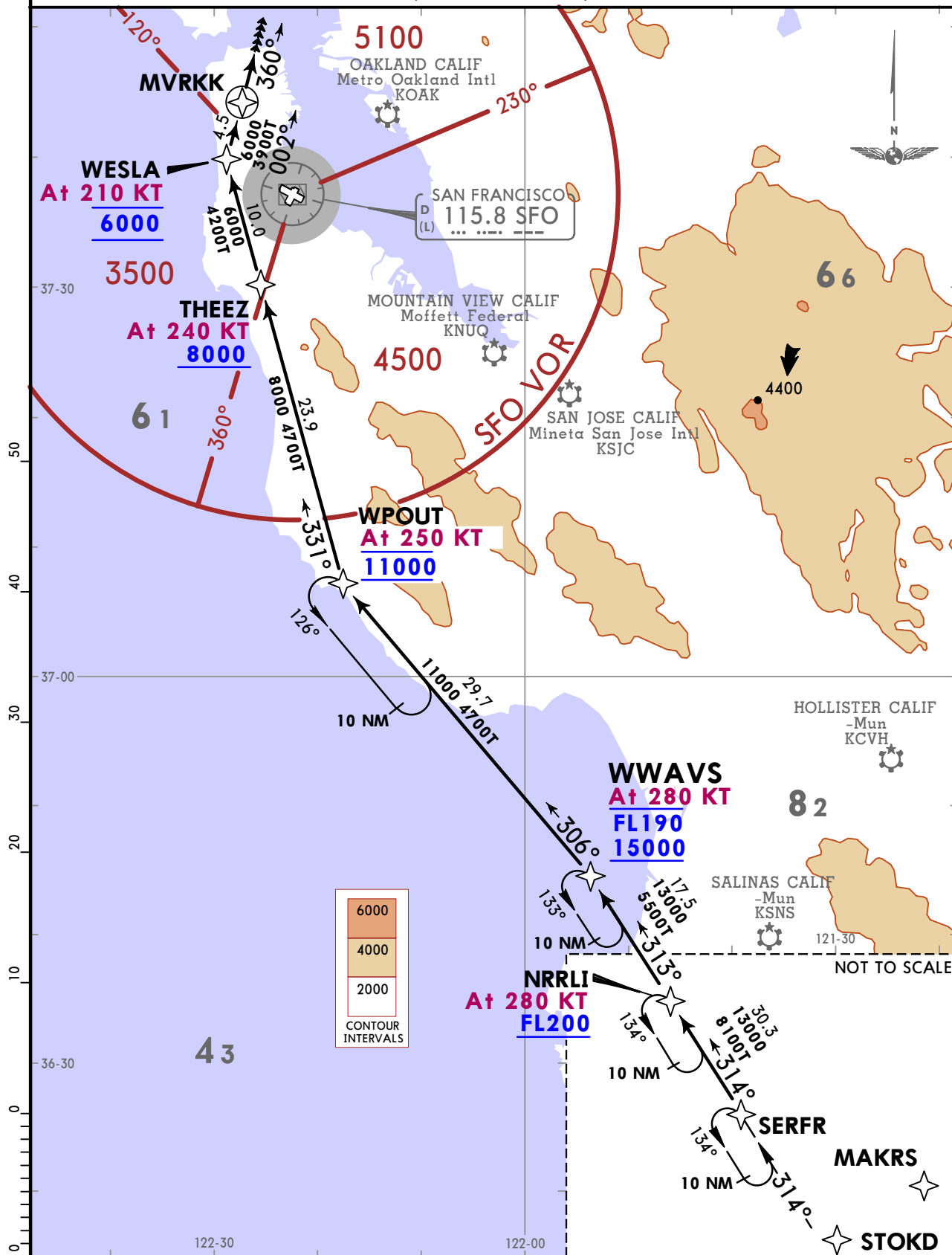
RNAV STAR

D-ATIS
113.7 115.8 118.85

Apt Elev
13

Alt Set: INCHES Trans level: FL180
1. RADAR required. 2. DME/DME/IRU or GPS required.
3. RNAV 1.

WWAVS 1 RNAV ARRIVAL
(SERFR.WWAVS1)
(RWYS 19L/R)

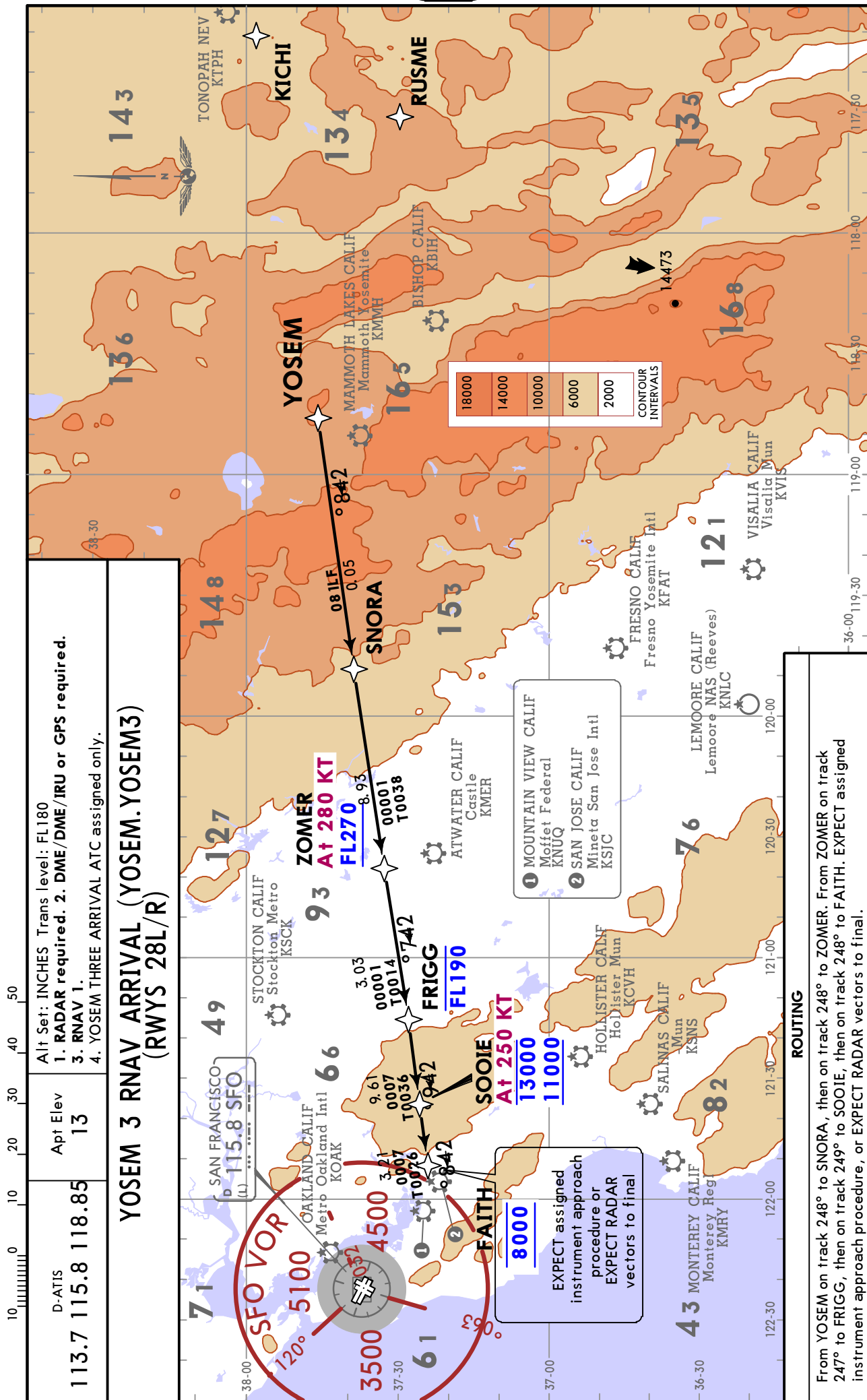


ROUTING
From SERFR on track 314° to NRRLI, then on track 313° to WWAVS, then on track 306° to WPOUT, then on track 331° to THEEZ, then on track 331° to WESLA, then on track 002° to MVRKK, then on track 360°.
EXPECT RADAR vectors to final approach course.

KSFO/SFO
SAN FRANCISCO INTL

JEPPesen
30 JUN 17 10-2M

SAN FRANCISCO, CALIF
RNAV STAR



Alt Set: INCHES Trans level: FL180
 1. RADAR required. 2. DME/DME/IRU or GPS required.
 3. RNAV 1.
 4. YOSEM THREE ARRIVAL ATC assigned only.

D-ATIS 113.7 115.8 118.85
 Apt Elev 13

**YOSEM 3 RNAV ARRIVAL (YOSEM.YOSEM3)
 (RWYS 28L/R)**

- 1 MOUNTAIN VIEW CALIF
Moffet Federal
KNUQ
- 2 SAN JOSE CALIF
Mineta San Jose Intl
KSJC

EXPECT assigned
 instrument approach
 procedure or
 EXPECT RADAR
 vectors to final

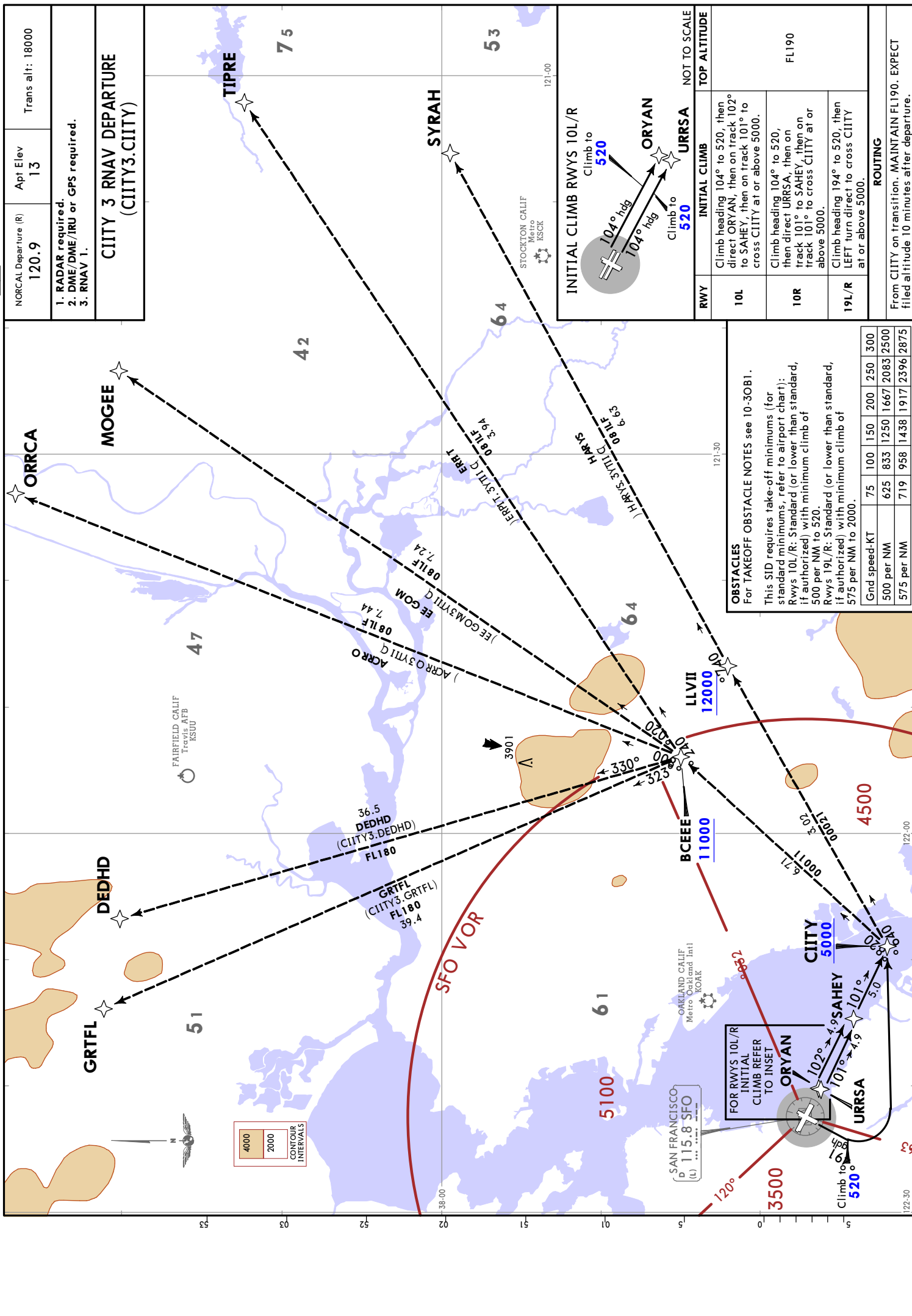
ROUTING

From YOSEM on track 248° to SNORA, then on track 248° to ZOMER. From ZOMER on track 247° to FRIGG, then on track 249° to SOOIE, then on track 248° to FAITH. EXPECT assigned instrument approach procedure, or EXPECT RADAR vectors to final.

JEPESEN
 5 MAY 17 (10-3A)
KSFO/SFO
 SAN FRANCISCO INTL

ORRCA
 SAN FRANCISCO INTL

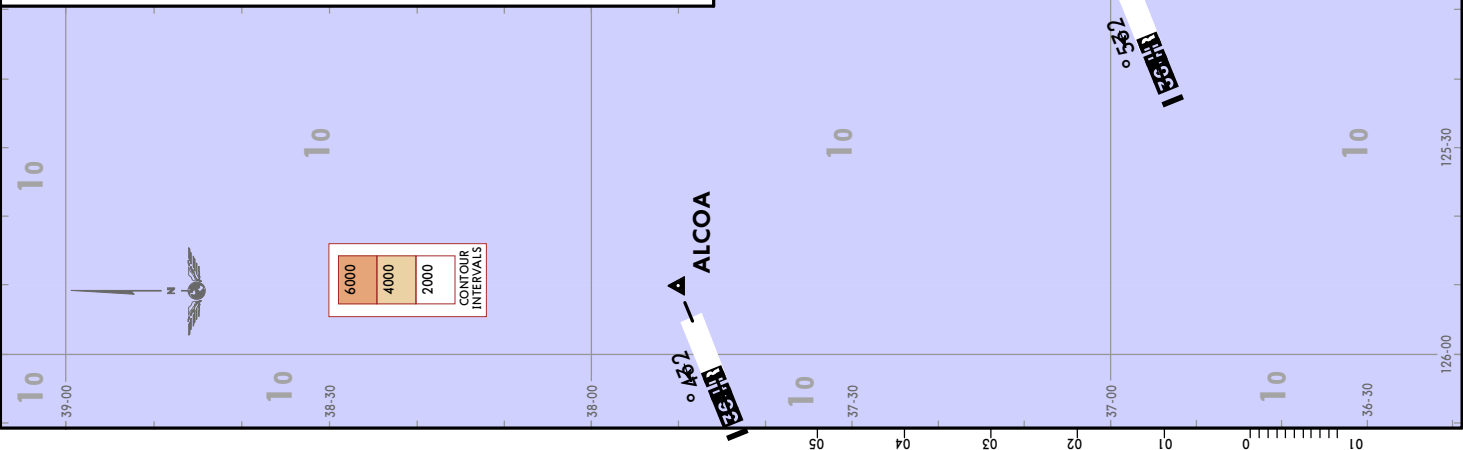
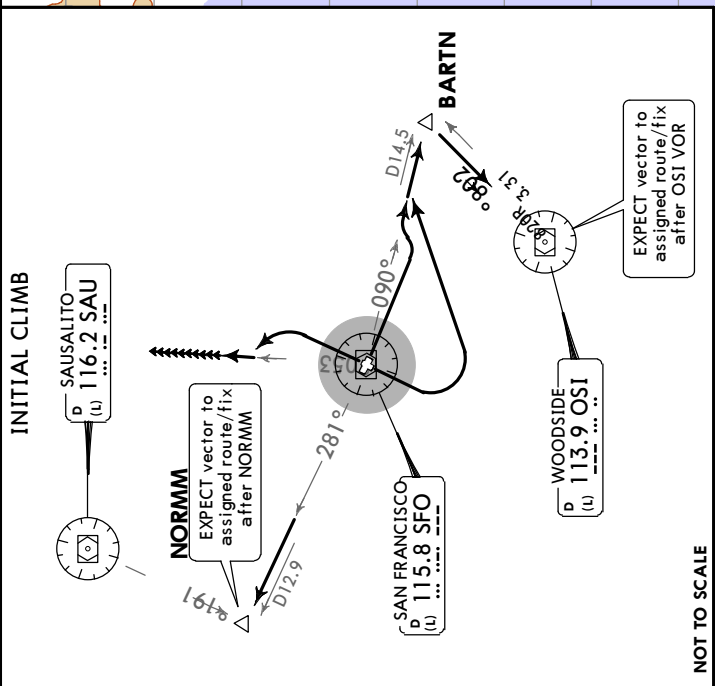
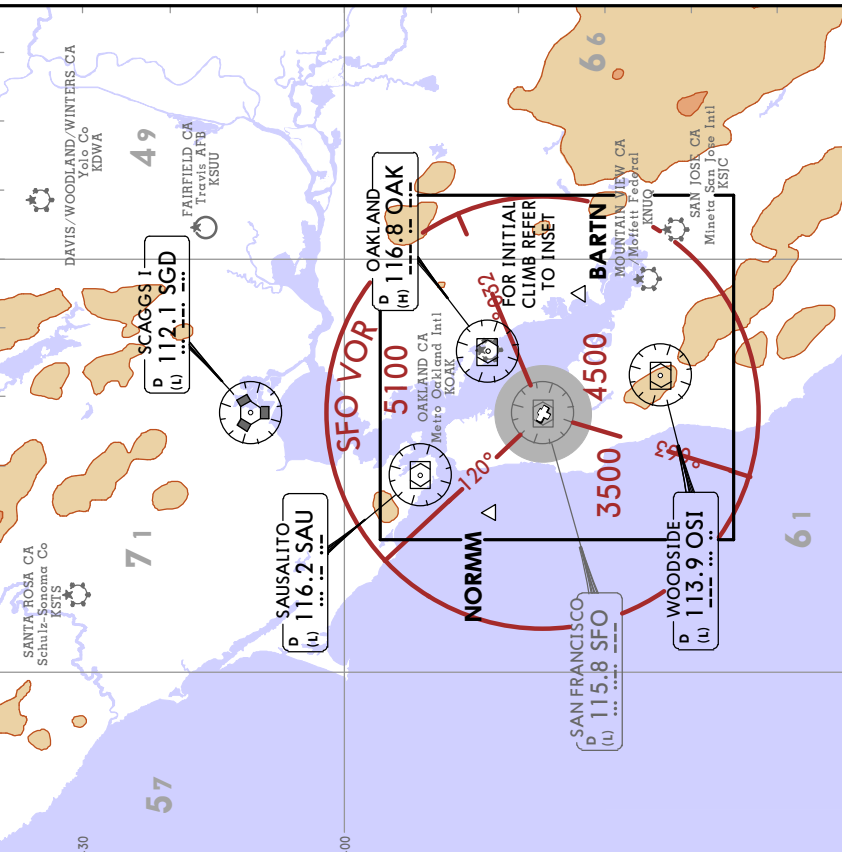
JEPESEN
 5 MAY 17 (10-3A)
KSFO/SFO
 SAN FRANCISCO INTL

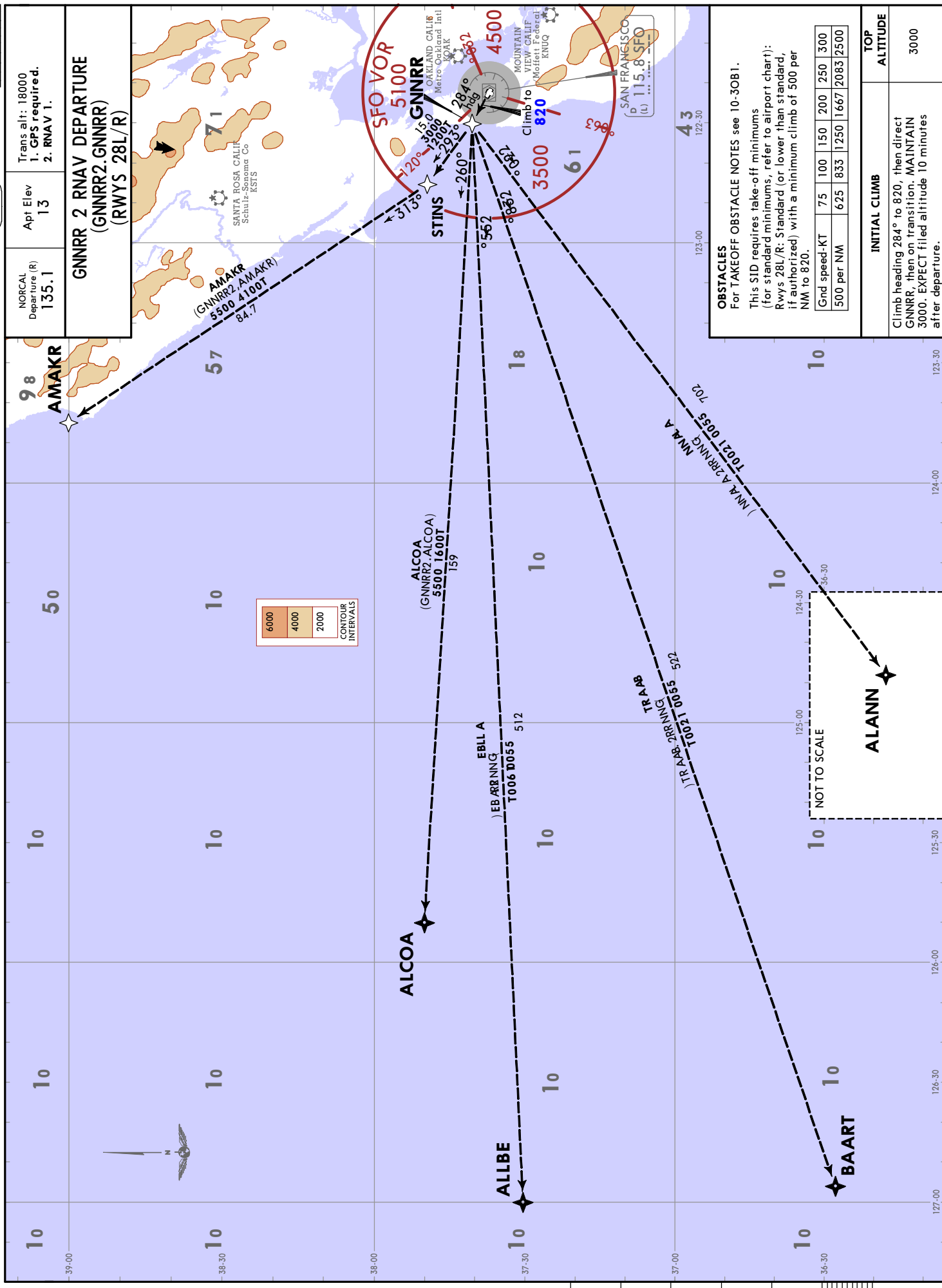


NORCAL Departure (R)
 Northwest-East | Southeast-West
 120.9 | 135.1
 Apt Elev
 13

Trans alt: 18000
 1. **RADAR required.**
 2. Rwy 19L/R departures turn LEFT due to steeply rising terrain to 2000 immediately SOUTH of airport.

GAP 7 DEPARTURE (GAPP7.GAP)





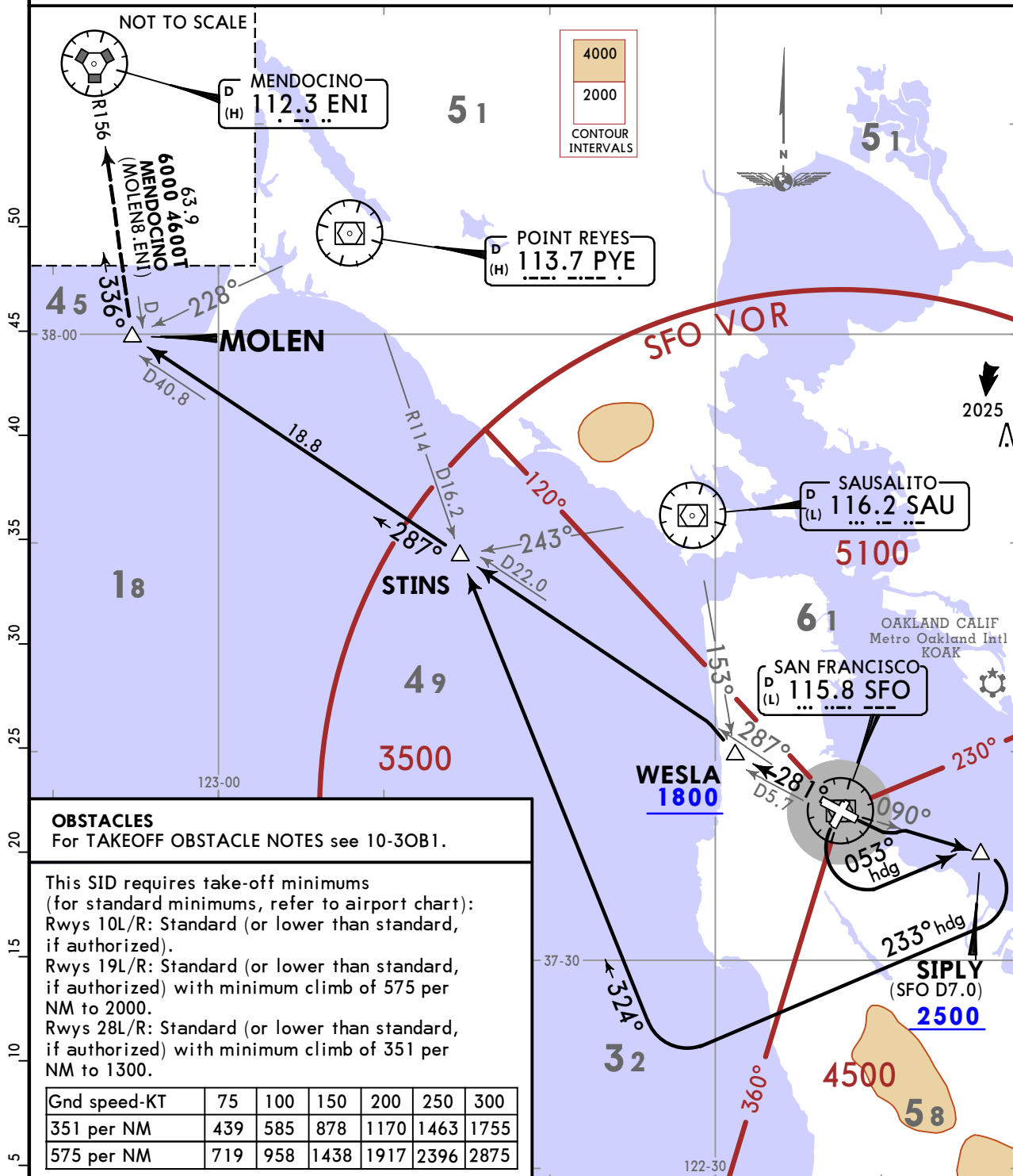
KSFO/SFO SAN FRANCISCO INTL

JEPPESSEN
5 MAY 17 (10-3E)

SAN FRANCISCO, CALIF
SID

NORCAL Departure (R) 135.1	Apt Elev 13	Trans alt: 18000 1. RADAR required. 2. DME required. 3. Rapidly rising terrain to 2000 immediately SOUTH of airport.
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MOLEN 8 DEPARTURE (MOLEN8.MOLEN)



OBSTACLES

For TAKEOFF OBSTACLE NOTES see 10-30B1.

This SID requires take-off minimums (for standard minimums, refer to airport chart):
 Rwy 10L/R: Standard (or lower than standard, if authorized).
 Rwy 19L/R: Standard (or lower than standard, if authorized) with minimum climb of 575 per NM to 2000.
 Rwy 28L/R: Standard (or lower than standard, if authorized) with minimum climb of 351 per NM to 1300.

Gnd speed-KT	75	100	150	200	250	300
351 per NM	439	585	878	1170	1463	1755
575 per NM	719	958	1438	1917	2396	2875

RWY	INITIAL CLIMB	TOP ALTITUDE
10L/R	Climbing LEFT turn to intercept SFO R090 to cross SIPLY at or above 2500, then climbing RIGHT turn to 5000 on heading 233° to intercept and proceed on PYE R144 to STINS, then on SFO R287 to MOLEN.	Assigned by ATC
19L/R	Climbing LEFT turn heading 053° to intercept SFO R090 to cross SIPLY at or above 2500, then climbing RIGHT turn to 5000 heading 233° to intercept and proceed on PYE R144 to STINS, then on SFO R287 to MOLEN.	
28L/R	Climb on SFO R281 to cross WESLA at or above 1800, then turn RIGHT to intercept SFO R287 to MOLEN.	

ROUTING

From MOLEN on transition. EXPECT clearance to filed altitude 10 minutes after departure.

NORCAL Departure (R) 120.9	Apt Elev 13	Trans alt: 18000
1. RADAR required. 2. DME/DME/IRU or GPS required. 3. RNAV 1.		
NIITE 3 RNAV DEPARTURE (NIITE3.NIITE)		

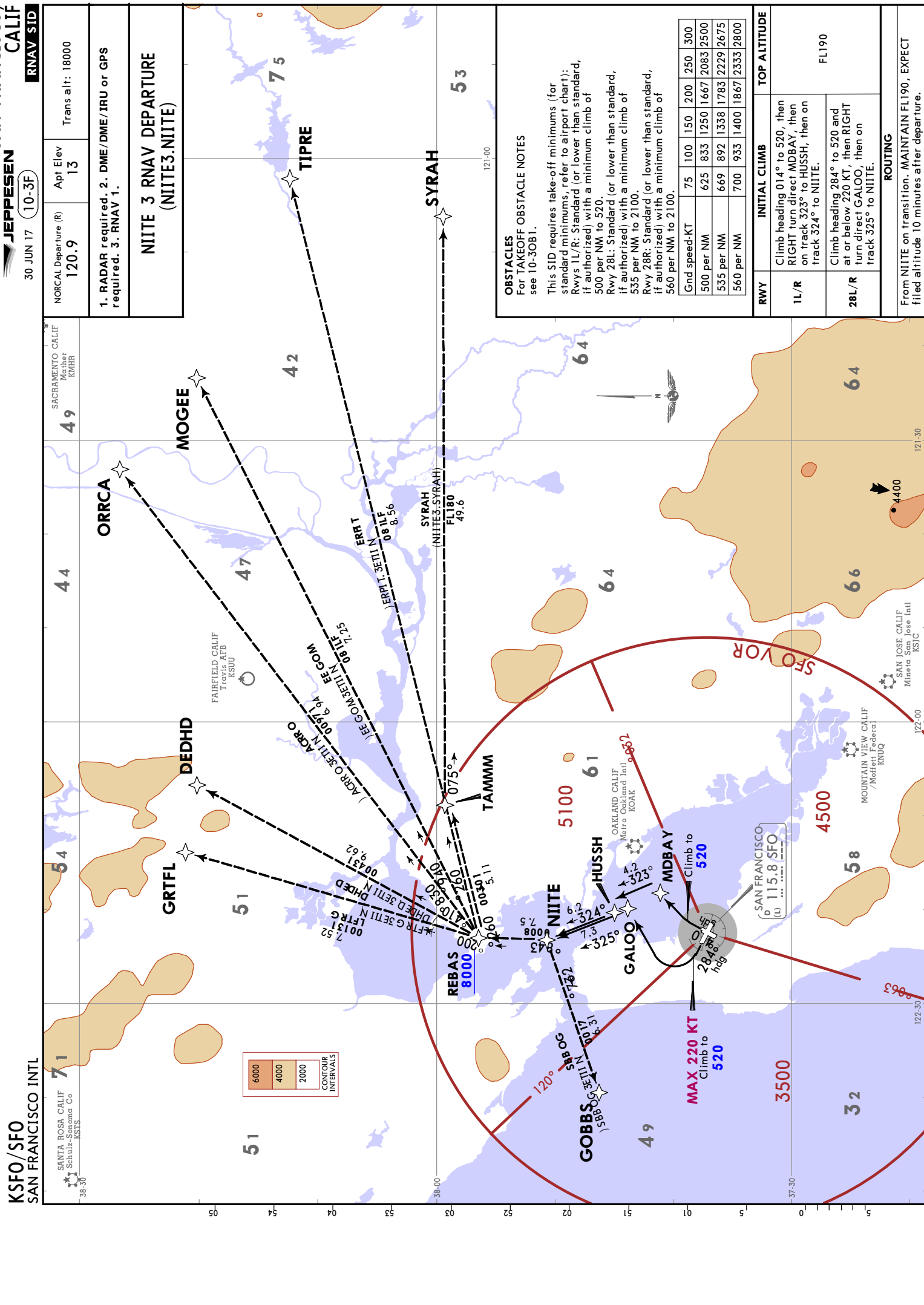
RWY	INITIAL CLIMB	TOP ALTITUDE
1L/R	Climb heading 014° to 520, then RIGHT turn direct MDBAY, then on track 323° to HUSSH, then on track 324° to NIITE.	FL190
28L/R	Climb heading 284° to 520 and at or below 220 KT, then RIGHT turn direct GALOO, then on track 325° to NIITE.	

RWY	INITIAL CLIMB	TOP ALTITUDE
75	100	150
100	150	200
150	200	250
200	250	300
300	300	350
350	350	400
400	400	450
450	450	500
500	500	550
550	550	600
600	600	650
650	650	700
700	700	750
750	750	800
800	800	850
850	850	900
900	900	950
950	950	1000
1000	1000	1050
1050	1050	1100
1100	1100	1150
1150	1150	1200
1200	1200	1250
1250	1250	1300
1300	1300	1350
1350	1350	1400
1400	1400	1450
1450	1450	1500
1500	1500	1550
1550	1550	1600
1600	1600	1650
1650	1650	1700
1700	1700	1750
1750	1750	1800
1800	1800	1850
1850	1850	1900
1900	1900	1950
1950	1950	2000
2000	2000	2050
2050	2050	2100
2100	2100	2150
2150	2150	2200
2200	2200	2250
2250	2250	2300
2300	2300	2350
2350	2350	2400
2400	2400	2450
2450	2450	2500
2500	2500	2550
2550	2550	2600
2600	2600	2650
2650	2650	2700
2700	2700	2750
2750	2750	2800
2800	2800	2850
2850	2850	2900
2900	2900	2950
2950	2950	3000
3000	3000	3050
3050	3050	3100
3100	3100	3150
3150	3150	3200
3200	3200	3250
3250	3250	3300
3300	3300	3350
3350	3350	3400
3400	3400	3450
3450	3450	3500
3500	3500	3550
3550	3550	3600
3600	3600	3650
3650	3650	3700
3700	3700	3750
3750	3750	3800
3800	3800	3850
3850	3850	3900
3900	3900	3950
3950	3950	4000
4000	4000	4050
4050	4050	4100
4100	4100	4150
4150	4150	4200
4200	4200	4250
4250	4250	4300
4300	4300	4350
4350	4350	4400
4400	4400	4450
4450	4450	4500
4500	4500	4550
4550	4550	4600
4600	4600	4650
4650	4650	4700
4700	4700	4750
4750	4750	4800
4800	4800	4850
4850	4850	4900
4900	4900	4950
4950	4950	5000
5000	5000	5050
5050	5050	5100
5100	5100	5150
5150	5150	5200
5200	5200	5250
5250	5250	5300
5300	5300	5350
5350	5350	5400
5400	5400	5450
5450	5450	5500
5500	5500	5550
5550	5550	5600
5600	5600	5650
5650	5650	5700
5700	5700	5750
5750	5750	5800
5800	5800	5850
5850	5850	5900
5900	5900	5950
5950	5950	6000
6000	6000	6050
6050	6050	6100
6100	6100	6150
6150	6150	6200
6200	6200	6250
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9850	9850	9900
9900	9900	9950
9950	9950	10000

OBSTACLES
 For TAKEOFF OBSTACLE NOTES see 10-30B1.

This SID requires take-off minimums (for standard minimums, refer to airport chart):
 Rwy 1L/R: Standard (or lower than standard, if authorized) with a minimum climb of 500 per NM to 520.
 Rwy 28L: Standard (or lower than standard, if authorized) with a minimum climb of 535 per NM to 2100.
 Rwy 28R: Standard (or lower than standard, if authorized) with a minimum climb of 560 per NM to 2100.

Gnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500
535 per NM	669	892	1338	1783	2229	2675
560 per NM	700	933	1400	1867	2333	2800



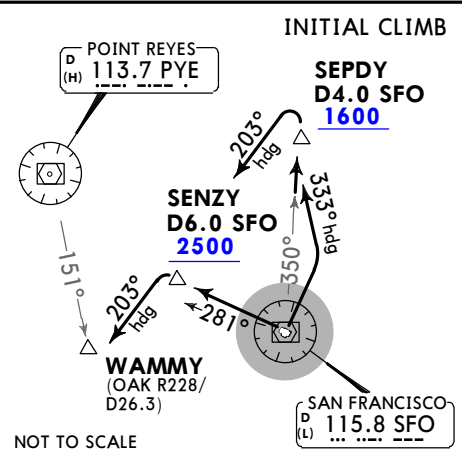
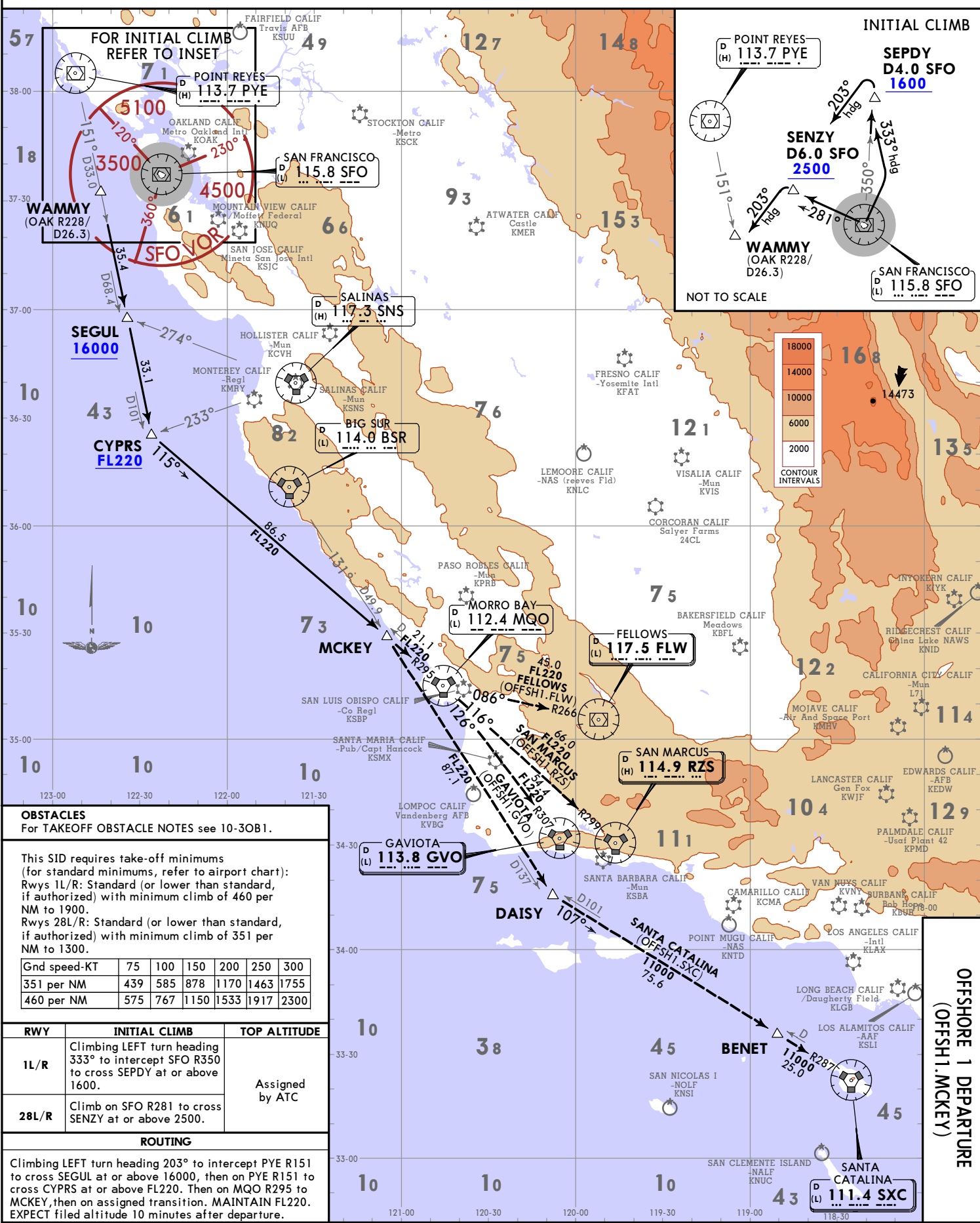
CHANGES: Reissue.

NORCAL
Departure (R)
135.1

Apt Elev
13

Trans alt: 18000
1. RADAR required.
2. DME required.

OFFSHORE 1 DEPARTURE (OFFSH1.MCKEY)



OBSTACLES
For TAKEOFF OBSTACLE NOTES see 10-30B1.

This SID requires take-off minimums (for standard minimums, refer to airport chart):
Rwys 1L/R: Standard (or lower than standard, if authorized) with minimum climb of 460 per NM to 1900.
Rwys 28L/R: Standard (or lower than standard, if authorized) with minimum climb of 351 per NM to 1300.

Gnd speed-KT	75	100	150	200	250	300
351 per NM	439	585	878	1170	1463	1755
460 per NM	575	767	1150	1533	1917	2300

RWY	INITIAL CLIMB	TOP ALTITUDE
1L/R	Climbing LEFT turn heading 333° to intercept SFO R350 to cross SEPDY at or above 1600.	Assigned by ATC
28L/R	Climb on SFO R281 to cross SENZY at or above 2500.	

ROUTING

Climbing LEFT turn heading 203° to intercept PYE R151 to cross SEGUL at or above 16000, then on PYE R151 to cross CYPRS at or above FL220. Then on MQO R295 to MCKEY, then on assigned transition. MAINTAIN FL220. EXPECT filed altitude 10 minutes after departure.

KSFO/SFO
SAN FRANCISCO INTL
30 JUN 17
10-3G
JEPPesen
SAN FRANCISCO, CALIF
SID

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NORCAL
 Departure (R)
135.1

Apt Elev
13

Trans alt: 18000
 1. RADAR required.
 2. DME/DME/IRU or GPS required.
 3. RNAV 1.

**SAHEY 3 RNAV DEPARTURE
 (SAHEY3.SAHEY)**

SPEED RESTRICTION
 RWYS 19L/R: DO NOT EXCEED 250 KT UNTIL
 ESTABLISHED DIRECT SAHEY

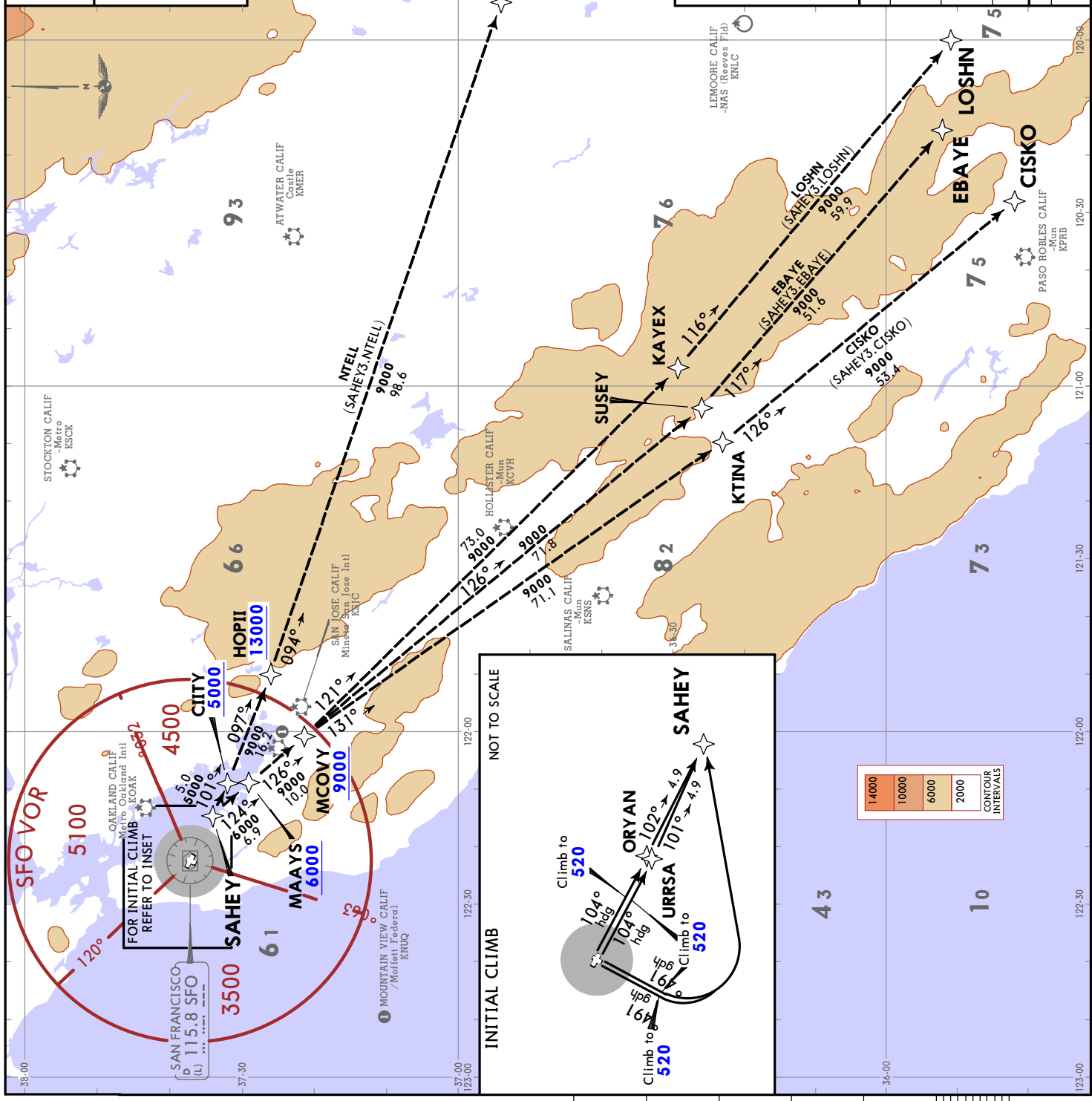
This SID requires a minimum climb gradient of:
 Rws 10L/R: 500 per NM to 520.
 Rws 19L/R: 575 per NM to 2000.

Grnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500
575 per NM	719	958	1438	1917	2396	2875

OBSTACLES
 For TAKEOFF OBSTACLE NOTES see 10-30B1.

RWY	INITIAL CLIMB	TOP ALTITUDE
10L	Climb heading 104° to 520, then direct ORYAN, then on track 102° to SAHEY.	FL 190
10R	Climb heading 104° to 520, then direct URRSA, then on track 101° to SAHEY.	
19L/R	Climb heading 194° to 520, then LEFT turn direct SAHEY.	

ROUTING
 From SAHEY on transition. MAINTAIN FL190, EXPECT filed altitude 10 minutes after departure.

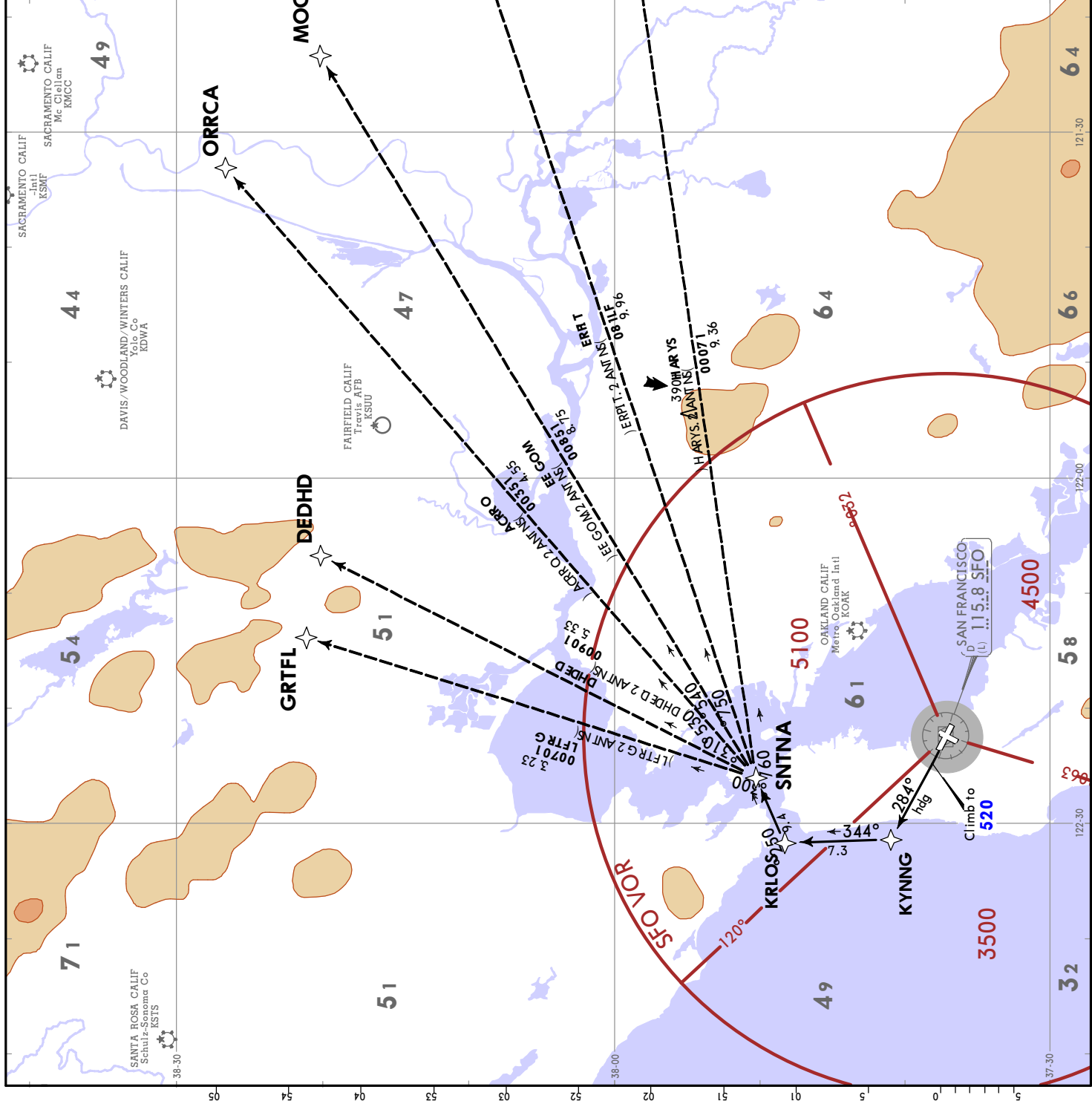


NORCAL
 Departure (R)
120.9

Apt Elev
13

Trans alt: 18000
 1. RADAR required.
 2. DME/DME/IRU or GPS
 required.
 3. RNAV 1.

SNTNA 2 RNAV DEPARTURE
 (SNTNA2.SNTNA)
 (RWYS 28L/R)



This SID requires take-off minimums (for standard minimums, refer to airport chart):
 Rwy 28L/R: Standard (or lower than standard, if authorized) with a minimum climb of 500 per NM to 1300.

Ground speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500

OBSTACLES
 For TAKEOFF OBSTACLE NOTES see 10-30B1.

INITIAL CLIMB	TOP ALTITUDE
Climb heading 284° to 520', then direct KYNNG, then on depicted route to SNTNA.	3000

ROUTING
 From SNTNA on transition. MAINTAIN 3000. EXPECT filed altitude 10 minutes after departure.

JEPPesen SAN FRANCISCO, CALIF
 7 SEP 18 10-3L Eff 13 Sep **RNAV SID**

KSFO/SFO
 SAN FRANCISCO INTL

NORCAL
 Departure (R)
135.1

Apt Elev
13

Trans alt: 18000

1. RADAR required.
 2. GPS required.
 3. RNAV 1.

SSTIK 4 RNAV DEPARTURE
 (SSTIK4.SSTIK)
 (RWYS 1L/R)

SPEED: DO NOT EXCEED 210 KT
UNTIL LEAVING 520

TAKEOFF OBSTACLE NOTES
 See TAKEOFF OBSTACLE NOTES page (10-30B1)

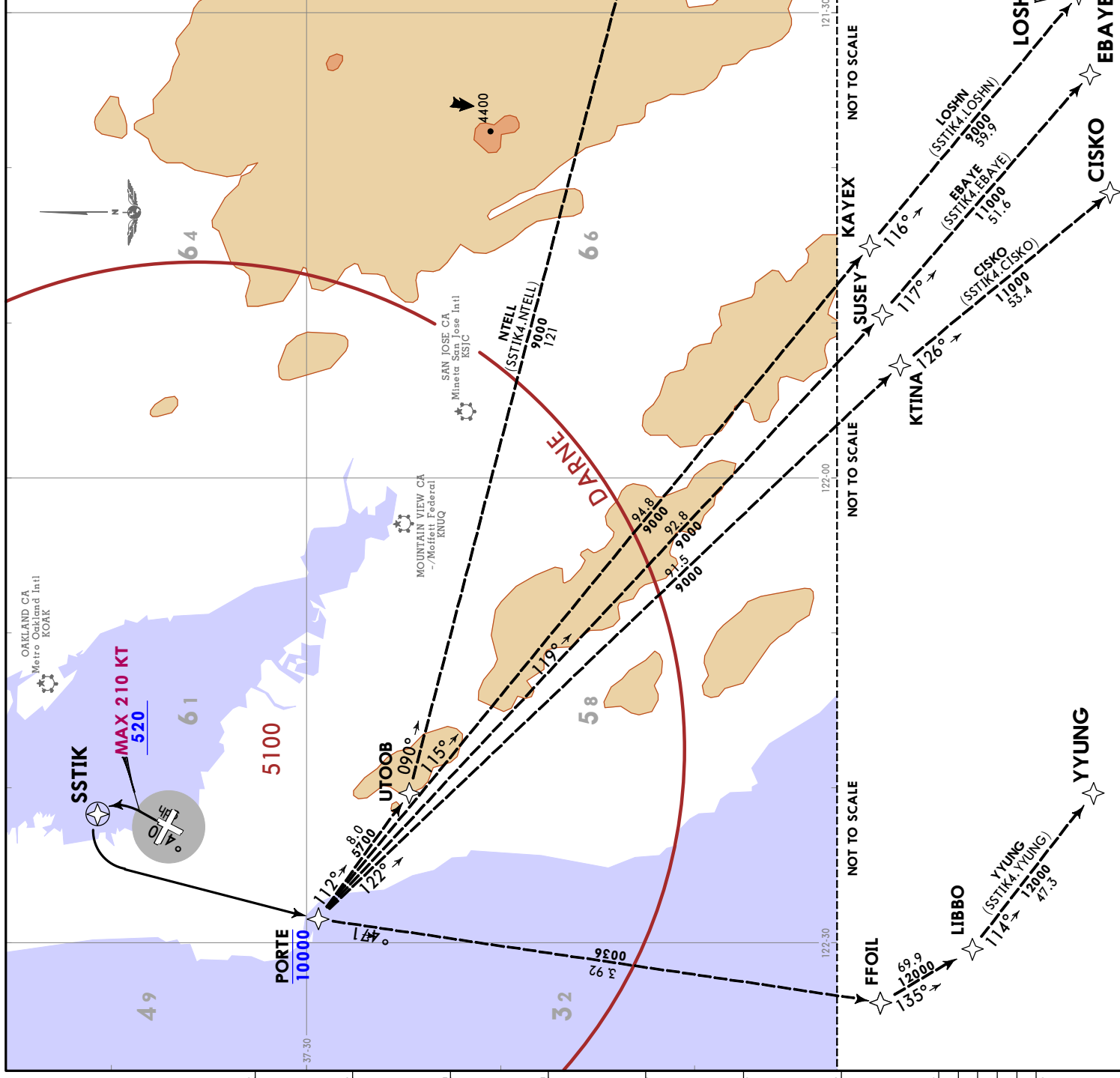
This SID requires take-off minimums (for standard minimums, refer to airport chart):
 Rwy 1L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 1600.
 Rwys 10L/R, 19L/R, 28L/R: Not authorized - ATC.

Gnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500

INITIAL CLIMB	TOP ALTITUDE
Climb heading 014° to 520, then climbing LEFT turn direct SSTIK, then climbing LEFT turn direct PORTE at or below 10000.	FL190

ROUTING

From PORTE on transition. MAINTAIN FL190, EXPECT filed altitude 10 minutes after departure.



NORCAL
 Departure (R)
120.9

Trans alt: 18000
 1. RADAR required.
 2. DME/DME/IRU or GPS required.
 3. RNAV 1.

TRUKN 2 RNAV DEPARTURE (TRUKN2.TRUKN)

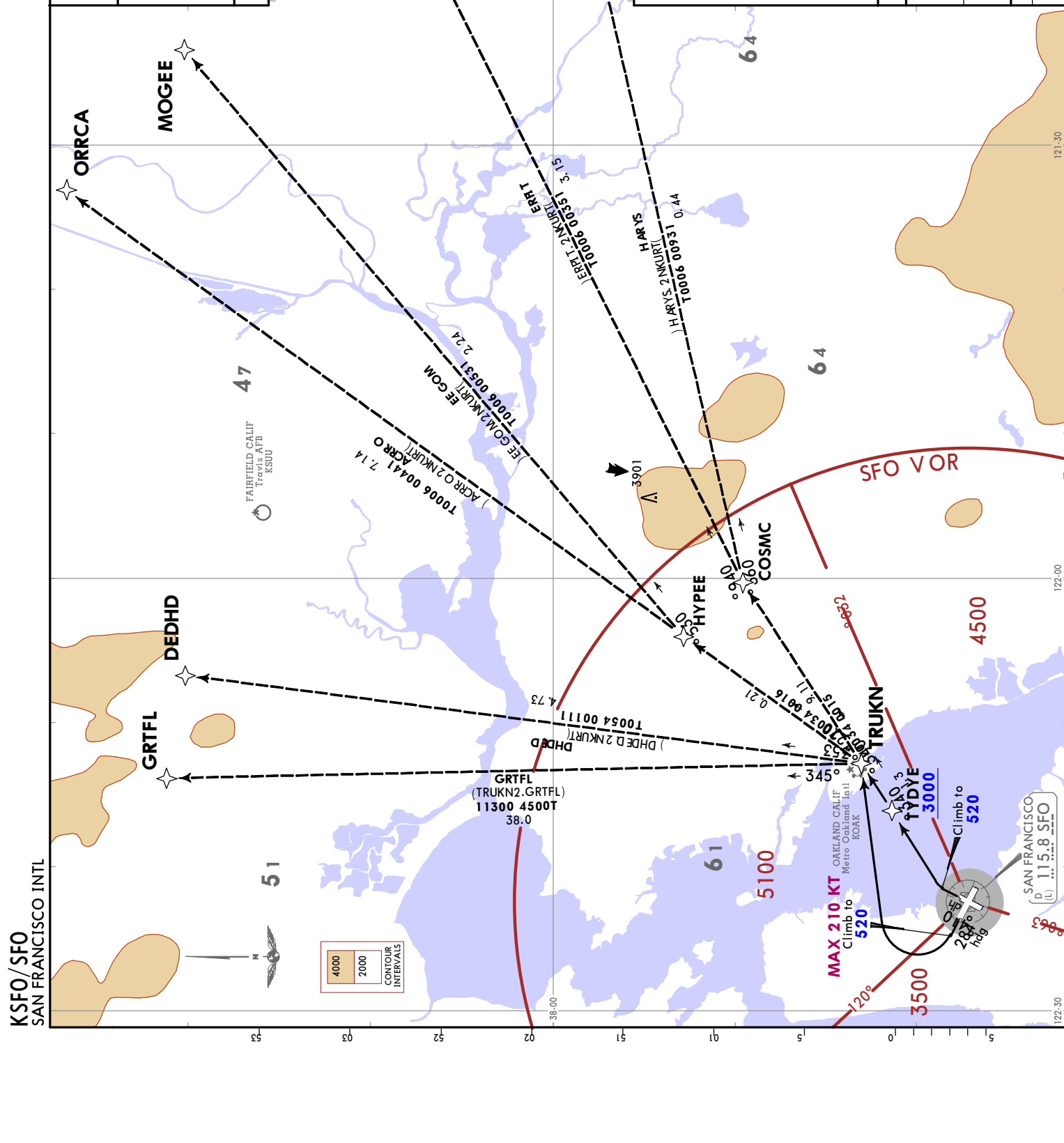
SPEED RESTRICTION
 RWYS 28L/R - DO NOT EXCEED 210 KT UNTIL LEAVING 520

OBSTACLES
 For TAKEOFF OBSTACLE NOTES see 10-30B1.

RWY	INITIAL CLIMB	TOP ALTITUDE
1L/R	Climb heading 014° to 520, then RIGHT turn direct TYDYE, cross TYDYE at or above 3000', then on track 043° to TRUKN.	FL190
28L/R	Climb heading 284° to 520 and at or below 210 KT, then RIGHT turn direct TRUKN.	

This SID requires take-off minimums (for standard minimums, refer to airport chart):
 Rwy 1L/R: Standard (or lower than standard, if authorized) with a minimum climb of 500 per NM to 520.
 Rwy 28L: Standard (or lower than standard, if authorized) with a minimum climb of 535 per NM to 2100.
 Rwy 28R: Standard (or lower than standard, if authorized) with a minimum climb of 560 per NM to 2100.

Gnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500
535 per NM	669	892	1338	1783	2229	2675
560 per NM	700	933	1400	1867	2333	2800



JEPPESAN SAN FRANCISCO, CALIF
RNAV SID
 7 SEP 18 (10-3N) Eff 13 Sep

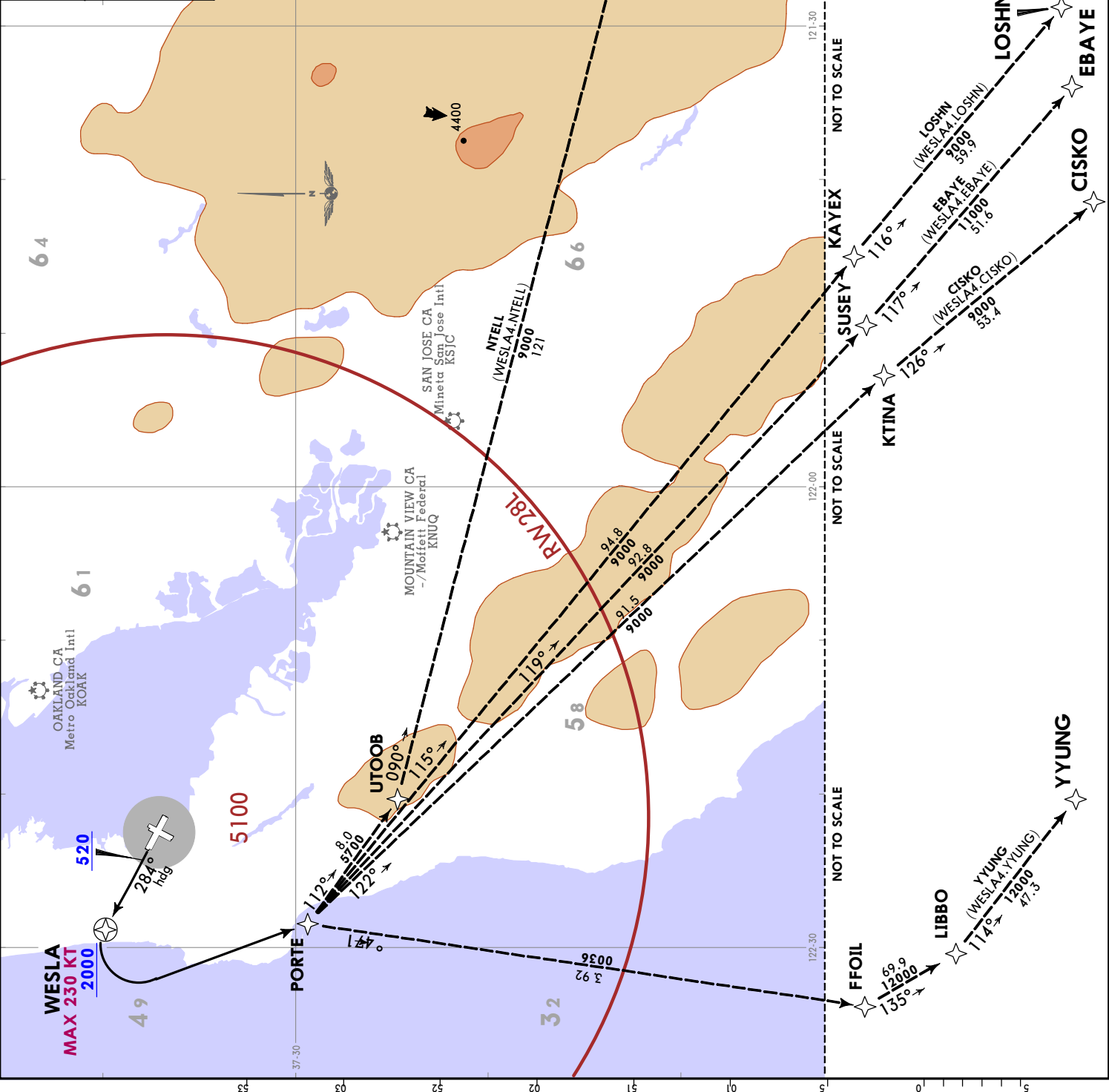
KSFO/SFO
SAN FRANCISCO INTL

Trans alt: 18000
 1. RADAR required for non-GPS equipped aircraft.
 2. DME/DME/IRU or GPS required.
 3. RNAV 1.

NORCAL
 Departure (R)
 135.1

Apt Elev
 13

WESLA 4 RNAV DEPARTURE
(WESLA4.WESLA)
(RWYS 28L/R)
SPEED: DO NOT EXCEED 210 KT
UNTIL LEAVING 520



NOT TO SCALE

TAKEOFF OBSTACLE NOTES
 See TAKEOFF OBSTACLE NOTES page (10-30B1).

This SID requires take-off minimums (for standard minimums, refer to airport chart):
 Rwy 1L/R, 10L/R, 19L/R: Not authorized - ATC.
 Rwy 28L/R: Standard (or lower than standard, if authorized) with minimum climb of 500 per NM to 2000.

Grnd speed-KT	75	100	150	200	250	300
500 per NM	625	833	1250	1667	2083	2500

INITIAL CLIMB	TOP ALTITUDE
Climb heading 284° to 520, then direct to cross WESLA at or above 2000, then LEFT turn direct to PORTE.	3000

ROUTING
 From PORTE on transition. MAINTAIN 3000. EXPECT filed altitude 10 minutes after departure.

KSFO/SFO


JEPPESSEN

SAN FRANCISCO, CALIF

18 JUL 14

10-30B1

Eff 24 Jul

SAN FRANCISCO INTL

TAKEOFF OBSTACLE NOTES

◦ RWY 1L:

SHIPS BEGINNING 1646' FROM DER, RIGHT AND LEFT OF CENTERLINE, UP TO 150' AGL/
150' MSL.

◦ RWY 1R:

SHIPS BEGINNING 1173' FROM DER, RIGHT AND LEFT OF CENTERLINE, UP TO 150' AGL/
150' MSL.

◦ RWY 10L:

SIGN 62' FROM DER, 300' LEFT OF CENTERLINE, 4' AGL/15' MSL. BUILDING AND
ROD ON BUILDING BEGINNING 257' FROM DER, 560' LEFT OF CENTERLINE, UP TO
14' AGL/24' MSL.

◦ RWY 19L:

MULTIPLE POLES BEGINNING 548' FROM DER, 46' LEFT OF CENTERLINE, UP TO 20' AGL/
48' MSL. MULTIPLE POLES AND SIGNS BEGINNING 652' FROM DER, 337' RIGHT OF
CENTERLINE, UP TO 20' AGL/38' MSL. MULTIPLE BUILDINGS, TRANSMISSION TOWERS,
POLES, TREES, SIGNS, ELECTRICAL SYSTEM BEGINNING 937' FROM DER, 11' LEFT OF
CENTERLINE, UP TO 100' AGL/127' MSL. MULTIPLE BUILDINGS, TRANSMISSION TOWERS,
POLES, TREES, SIGNS, ELECTRICAL SYSTEM BEGINNING 887' FROM DER, 61' RIGHT OF
CENTERLINE, UP TO 100' AGL/128' MSL. MULTIPLE BUILDINGS 3831' FROM DER, 1138'
LEFT OF CENTERLINE, UP TO 105' AGL/127' MSL. MULTIPLE BUILDINGS AND TREES
BEGINNING 3831' FROM DER, 74' RIGHT OF CENTERLINE, UP TO 100' AGL/167' MSL.

◦ RWY 19R:

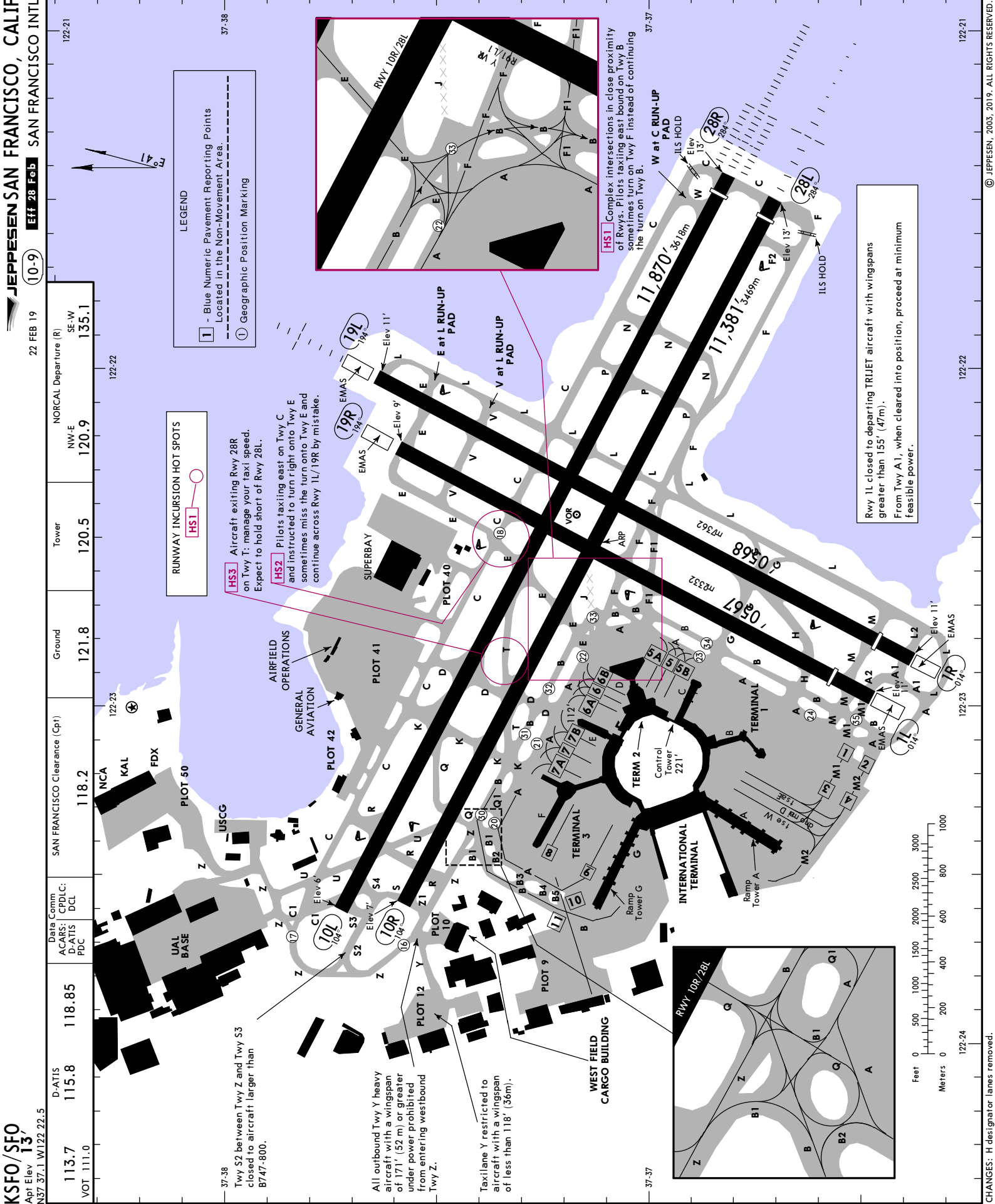
MULTIPLE POLES, TREES, ELECTRICAL SYSTEM BEGINNING 454' FROM DER, 82'
RIGHT OF CENTERLINE, UP TO 40' AGL/60' MSL. MULTIPLE TRANSMISSION TOWERS,
TREES BEGINNING 918' FROM DER, 7' LEFT OF CENTERLINE, UP TO 80' AGL/
96' MSL. POLES AND ELECTRICAL SYSTEM 1188' FROM DER, 1' RIGHT OF CENTERLINE,
44' AGL/50' MSL. MULTIPLE TRANSMISSION TOWERS, TREES BEGINNING 1617' FROM
DER, 16' RIGHT OF CENTERLINE, UP TO 80' AGL/85' MSL.

◦ RWY 28L:

SIGN 19' FROM DER, 500' RIGHT OF CENTERLINE, 5' AGL/9' MSL. OBSTRUCTION
LIGHTS ON DME BEGINNING 277' FROM DER, 162' LEFT OF CENTERLINE, UP TO
16' AGL/26' MSL. OBSTRUCTION LIGHT ON LOCALIZER BEGINNING 219' FROM DER,
ON CENTERLINE UP TO 10' AGL/17' MSL. MULTIPLE POLES, ELECTRICAL SYSTEM
BEGINNING 824' FROM DER, 300' LEFT OF CENTERLINE, UP TO 40' AGL/56' MSL.
MULTIPLE BUILDINGS, TRANSMISSION TOWERS, TANK AND POLE BEGINNING 1305'
FROM DER, 370' LEFT OF CENTERLINE, UP TO 95' AGL/103' MSL.

◦ RWY 28R:

MULTIPLE SIGNS BEGINNING 23' FROM DER, 140' RIGHT OF CENTERLINE, UP TO
5' AGL/10' MSL. TERRAIN BEGINNING 58' FROM DER, 146' RIGHT OF CENTERLINE,
UP TO 10' MSL. SIGN 63' FROM DER, 250' LEFT OF CENTERLINE, 5' AGL/8' MSL.
TERRAIN BEGINNING 130' FROM DER, 235' LEFT OF CENTERLINE, UP TO 10' MSL.
ANTENNA ON BUILDING, OBSTRUCTION LIGHT ON DME, TREE BEGINNING 556'
FROM DER, 268' RIGHT OF CENTERLINE, UP TO 35' AGL/43' MSL. MULTIPLE POLES
BEGINNING 918' FROM DER, 598' LEFT OF CENTERLINE, UP TO 22' AGL/35' MSL.
MULTIPLE BUILDINGS, TREES BEGINNING 1467' FROM DER, 683' RIGHT OF
CENTERLINE, UP TO 60' AGL/68' MSL. MULTIPLE BUILDINGS, TRANSMISSION
TOWERS, TREES AND ELECTRICAL SYSTEM BEGINNING 1826' FROM DER, 123' LEFT
OF CENTERLINE, UP TO 95' AGL/103' MSL.



KSFO/SFO

SAN FRANCISCO, CALIF
SAN FRANCISCO INTL

ODP TAKEOFF OBSTACLE NOTES

◦ RWY 1L:

SHIPS BEGINNING 1646' FROM DER, RIGHT AND LEFT OF CENTERLINE, UP TO 150' AGL/
150' MSL.

◦ RWY 1R:

SHIPS BEGINNING 1173' FROM DER, RIGHT AND LEFT OF CENTERLINE, UP TO 150' AGL/
150' MSL.

◦ RWY 10L:

SIGN 62' FROM DER, 300' LEFT OF CENTERLINE, 4' AGL/15' MSL. BUILDING AND
ROD ON BUILDING BEGINNING 257' FROM DER, 560' LEFT OF CENTERLINE, UP TO
14' AGL/24' MSL.

◦ RWY 19L:

MULTIPLE POLES BEGINNING 548' FROM DER, 46' LEFT OF CENTERLINE, UP TO 20' AGL/
48' MSL. MULTIPLE POLES AND SIGNS BEGINNING 652' FROM DER, 337' RIGHT OF
CENTERLINE, UP TO 20' AGL/38' MSL. MULTIPLE BUILDINGS, TRANSMISSION TOWERS,
POLES, TREES, SIGNS, ELECTRICAL SYSTEM BEGINNING 937' FROM DER, 11' LEFT OF
CENTERLINE, UP TO 100' AGL/127' MSL. MULTIPLE BUILDINGS, TRANSMISSION TOWERS,
POLES, TREES, SIGNS, ELECTRICAL SYSTEM BEGINNING 887' FROM DER, 61' RIGHT OF
CENTERLINE, UP TO 100' AGL/128' MSL. MULTIPLE BUILDINGS 3831' FROM DER, 1138'
LEFT OF CENTERLINE, UP TO 105' AGL/127' MSL. MULTIPLE BUILDINGS AND TREES
BEGINNING 3831' FROM DER, 74' RIGHT OF CENTERLINE, UP TO 100' AGL/167' MSL.

◦ RWY 19R:

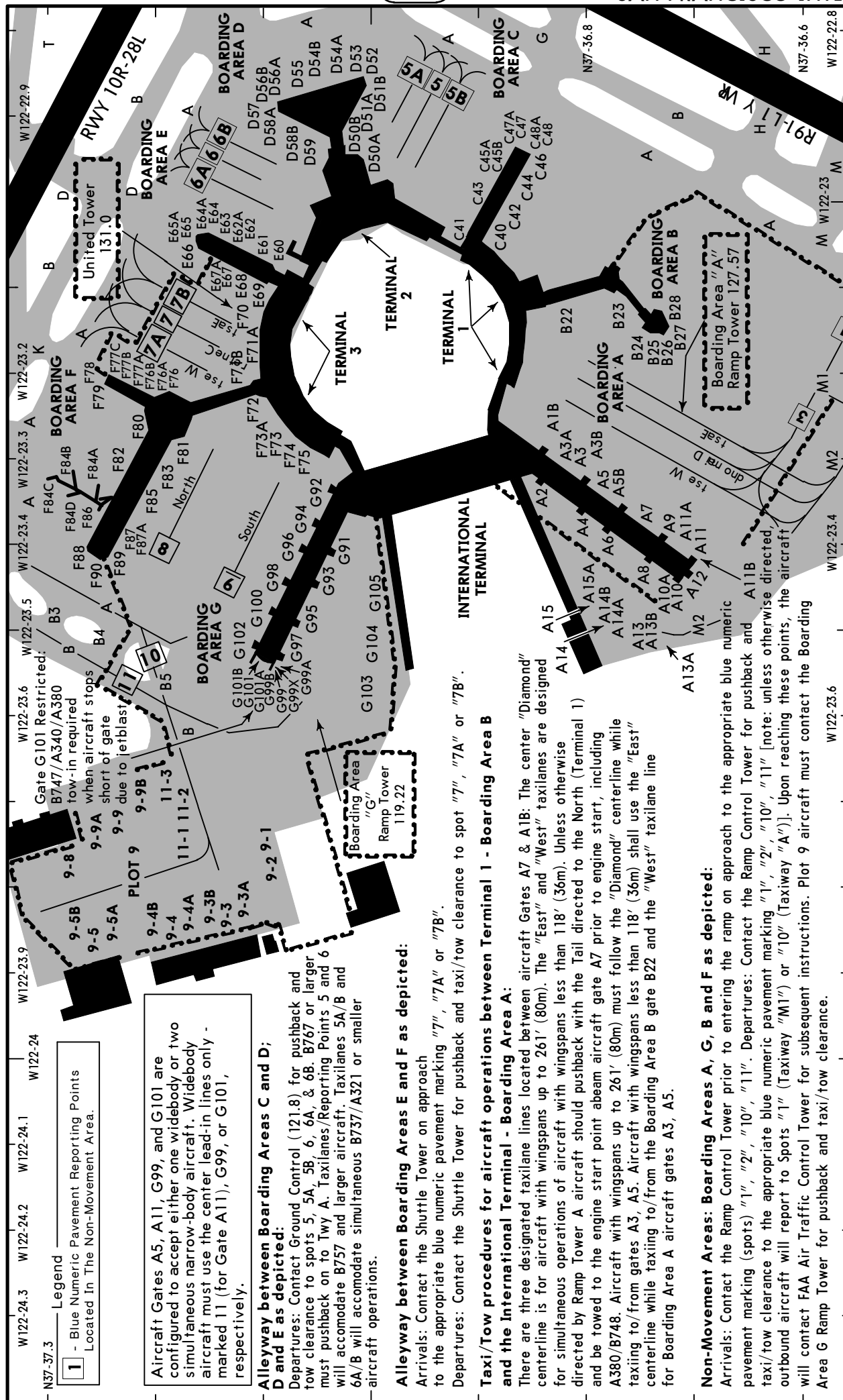
MULTIPLE POLES, TREES, ELECTRICAL SYSTEM BEGINNING 454' FROM DER, 82'
RIGHT OF CENTERLINE, UP TO 40' AGL/60' MSL. MULTIPLE TRANSMISSION TOWERS,
TREES BEGINNING 918' FROM DER, 7' LEFT OF CENTERLINE, UP TO 80' AGL/
96' MSL. POLES AND ELECTRICAL SYSTEM 1188' FROM DER, 1' RIGHT OF CENTERLINE,
44' AGL/50' MSL. MULTIPLE TRANSMISSION TOWERS, TREES BEGINNING 1617' FROM
DER, 16' RIGHT OF CENTERLINE, UP TO 80' AGL/85' MSL.

◦ RWY 28L:

SIGN 19' FROM DER, 500' RIGHT OF CENTERLINE, 5' AGL/9' MSL. OBSTRUCTION
LIGHTS ON DME BEGINNING 277' FROM DER, 162' LEFT OF CENTERLINE, UP TO
16' AGL/26' MSL. OBSTRUCTION LIGHT ON LOCALIZER BEGINNING 219' FROM DER,
ON CENTERLINE UP TO 10' AGL/17' MSL. MULTIPLE POLES, ELECTRICAL SYSTEM
BEGINNING 824' FROM DER, 300' LEFT OF CENTERLINE, UP TO 40' AGL/56' MSL.
MULTIPLE BUILDINGS, TRANSMISSION TOWERS, TANK AND POLE BEGINNING 1305'
FROM DER, 370' LEFT OF CENTERLINE, UP TO 95' AGL/103' MSL.

◦ RWY 28R:

MULTIPLE SIGNS BEGINNING 23' FROM DER, 140' RIGHT OF CENTERLINE, UP TO
5' AGL/10' MSL. TERRAIN BEGINNING 58' FROM DER, 146' RIGHT OF CENTERLINE,
UP TO 10' MSL. SIGN 63' FROM DER, 250' LEFT OF CENTERLINE, 5' AGL/8' MSL.
TERRAIN BEGINNING 130' FROM DER, 235' LEFT OF CENTERLINE, UP TO 10' MSL.
ANTENNA ON BUILDING, OBSTRUCTION LIGHT ON DME, TREE BEGINNING 556'
FROM DER, 268' RIGHT OF CENTERLINE, UP TO 35' AGL/43' MSL. MULTIPLE POLES
BEGINNING 918' FROM DER, 598' LEFT OF CENTERLINE, UP TO 22' AGL/35' MSL.
MULTIPLE BUILDINGS, TREES BEGINNING 1467' FROM DER, 683' RIGHT OF
CENTERLINE, UP TO 60' AGL/68' MSL. MULTIPLE BUILDINGS, TRANSMISSION
TOWERS, TREES AND ELECTRICAL SYSTEM BEGINNING 1826' FROM DER, 123' LEFT
OF CENTERLINE, UP TO 95' AGL/103' MSL.



Legend
 1 - Blue Numeric Pavement Reporting Points Located In The Non-Movement Area.

Aircraft Gates A5, A11, G99, and G101 are configured to accept either one widebody or two simultaneous narrow-body aircraft. Widebody aircraft must use the center lead-in lines only - marked 11 (for Gate A11), G99, or G101, respectively.

Alleyway between Boarding Areas C and D; D and E as depicted:
 Departures: Contact Ground Control (121.8) for pushback and tow clearance to spots 5, 5A, 5B, 6, 6A, & 6B. B767 or larger must pushback on to Twy A. Taxilanes/Reporting Points 5 and 6 will accommodate B757 and larger aircraft. Taxilanes 5A/B and 6A/B will accommodate simultaneous B737/A321 or smaller aircraft operations.

Alleyway between Boarding Areas E and F as depicted:
 Arrivals: Contact the Shuttle Tower on approach to the appropriate blue numeric pavement marking "7", "7A" or "7B".
 Departures: Contact the Shuttle Tower for pushback and taxi/tow clearance to spot "7", "7A" or "7B".

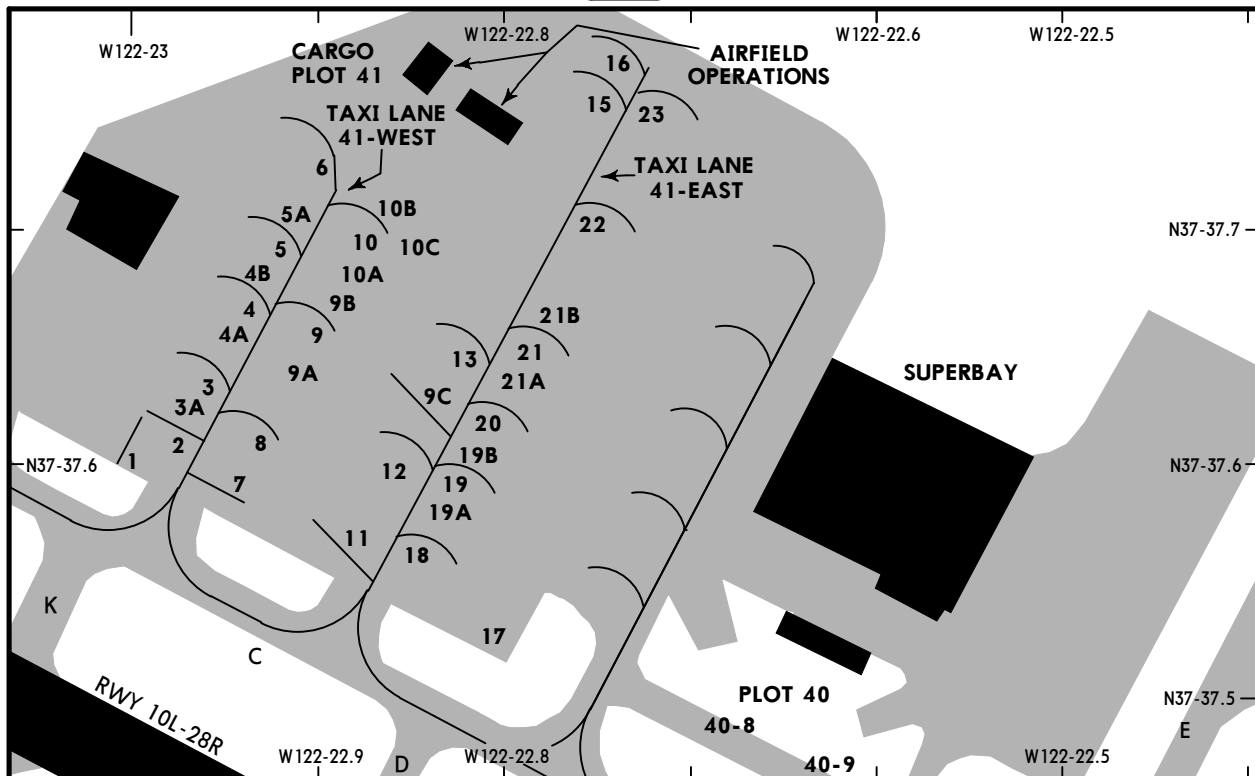
Taxi/Tow procedures for aircraft operations between Terminal 1 - Boarding Area B and the International Terminal - Boarding Area A:
 There are three designated taxilane lines located between aircraft Gates A7 & A1B: The center "Diamond" centerline is for aircraft with wingspans up to 261' (80m). The "East" and "West" taxilanes are designed for simultaneous operations of aircraft with wingspans less than 118' (36m). Unless otherwise directed by Ramp Tower A aircraft should pushback with the Tail directed to the North (Terminal 1) and be towed to the engine start point abeam aircraft gate A7 prior to engine start, including A380/B748. Aircraft with wingspans up to 261' (80m) must follow the "Diamond" centerline while taxiing to/from gates A3, A5. Aircraft with wingspans less than 118' (36m) shall use the "East" centerline while taxiing to/from the Boarding Area B gate B22 and the "West" taxilane line for Boarding Area A aircraft gates A3, A5.

Non-Movement Areas: Boarding Areas A, C, B and F as depicted:
 Arrivals: Contact the Ramp Control Tower prior to entering the ramp on approach to the appropriate blue numeric pavement marking (spots) "1", "2", "10", "11". Departures: Contact the Ramp Control Tower for pushback and taxi/tow clearance to the appropriate blue numeric pavement marking "1", "2", "10", "11" [note: unless otherwise directed, outbound aircraft will report to Spots "1" (Taxiway "M1") or "10" (Taxiway "A")]. Upon reaching these points, the aircraft will contact FAA Air Traffic Control Tower for subsequent instructions. Plot 9 aircraft must contact the Boarding Area G Ramp Tower for pushback and taxi/tow clearance.

KSFO/SFO

JEPPESEN
5 APR 19 10-9C

SAN FRANCISCO, CALIF
SAN FRANCISCO INTL



PARKING GATE COORDINATES

GATE No.	COORDINATES		GATE No.	COORDINATES	
BOARDING AREA A			BOARDING AREA G		
A1B, A2, A3, A3A	N37 36.8	W122 23.3	G92	N37 37.1	W122 23.3
A3B, A4, A5, A5B	N37 36.8	W122 23.4	G93	N37 37.0	W122 23.4
A6, A7	N37 36.8	W122 23.4	G94	N37 37.1	W122 23.4
A8 thru A12	N37 36.7	W122 23.4	G95	N37 37.1	W122 23.5
A13, A13A, A13B	N37 36.7	W122 23.5	G96	N37 37.1	W122 23.4
A14 thru A15A	N37 36.8	W122 23.5	G97	N37 37.1	W122 23.5
BOARDING AREA B			G98 thru G101A	N37 37.1	W122 23.5
B22, B23	N37 36.8	W122 23.1	G101B	N37 37.1	W122 23.6
B24, B25, B26, B27	N37 36.7	W122 23.2	G102	N37 37.1	W122 23.5
B28	N37 36.7	W122 23.1	G103	N37 37.0	W122 23.6
BOARDING AREA C			G104, G105	N37 37.0	W122 23.5
C40 thru C44	N37 36.9	W122 23.0	PLOT 9		
C45A, C45B	N37 36.9	W122 22.9	9-1, 9-2	N37 37.1	W122 23.8
C46	N37 36.9	W122 23.0	9-3, 9-3A, 9-3B	N37 37.1	W122 23.8
C47, C48	N37 36.9	W122 22.9	9-4, 9-4A, 9-4B	N37 37.2	W122 23.8
BOARDING AREA D			9-5, 9-5A, 9-5B	N37 37.3	W122 23.9
D50 thru D52	N37 37.0	W122 22.9	9-8	N37 37.3	W122 23.8
D53, D54A	N37 37.0	W122 22.8	9-9, 9-9A, 9-9B	N37 37.2	W122 23.7
D54B	N37 37.1	W122 22.8	11-1	N37 37.2	W122 23.8
D55 thru D58B	N37 37.1	W122 22.9	11-2, 11-3	N37 37.2	W122 23.7
D59	N37 37.1	W122 23.0	PLOT 10		
BOARDING AREA E			Westfield Cargo	N37 37.5	W122 23.6
E60 thru E62	N37 37.1	W122 23.1	PLOT 40		
E63	N37 37.1	W122 23.0	40-8	N37 37.5	W122 22.7
E64, E65	N37 37.2	W122 23.0	40-9	N37 37.5	W122 22.6
E66	N37 37.2	W122 23.1	41-WEST		
E67 thru E69	N37 37.1	W122 23.1	1, 2, 3, 3A	N37 37.6	W122 23.0
BOARDING AREA F			4, 4A, 4B, 5, 5A, 6	N37 37.7	W122 22.9
F70	N37 37.1	W122 23.1	7, 8, 9A	N37 37.6	W122 22.9
F71A/B, F72	N37 37.1	W122 23.2	9, 9B	N37 37.7	W122 22.9
F73 thru F75	N37 37.1	W122 23.3	10, 10A, 10B, 10C	N37 37.7	W122 22.9
F76 thru F79	N37 37.2	W122 23.2	41-EAST		
F80 thru F85	N37 37.2	W122 23.3	9C	N37 37.6	W122 22.8
F86	N37 37.3	W122 23.4	11, 12	N37 37.6	W122 22.9
F87	N37 37.2	W122 23.4	13	N37 37.6	W122 22.8
F88	N37 37.3	W122 23.4	15, 16	N37 37.8	W122 22.7
F89	N37 37.2	W122 23.4	17	N37 37.5	W122 22.8
F90	N37 37.3	W122 23.4	18, 19, 19A, 19B	N37 37.6	W122 22.8
BOARDING AREA G			20, 21, 21A	N37 37.6	W122 22.8
G91	N37 37.0	W122 23.4	21B, 22	N37 37.7	W122 22.8
			23	N37 37.8	W122 22.7

SAN FRANCISCO, CALIF LOW VISIBILITY TAXI ROUTES

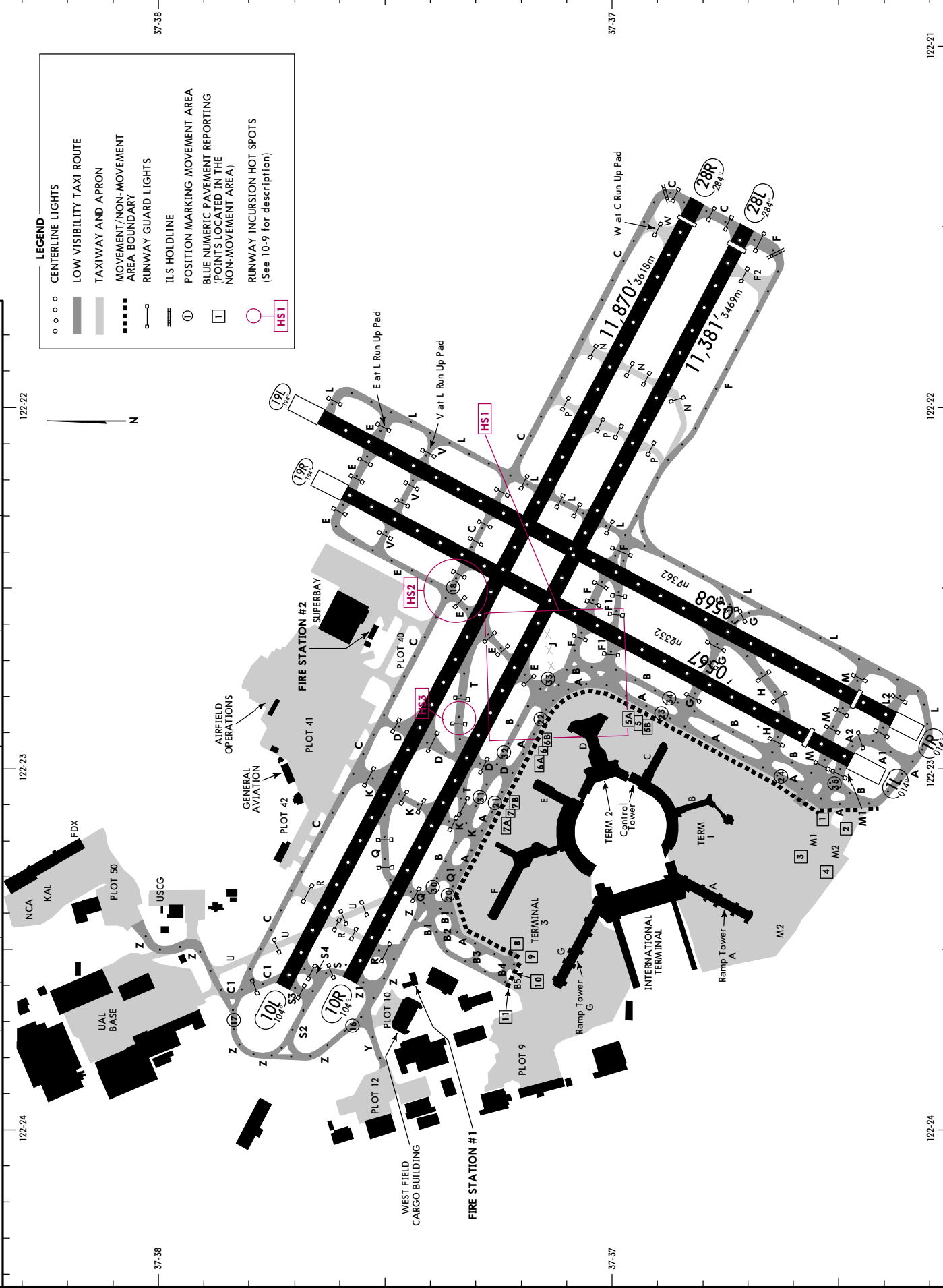
KSFO/SFO
SAN FRANCISCO INTL
LESS THAN RVR 1200 ft to 500

JEPPESEN
16 NOV 18 (10-9D)

113.7 VOT 111.0	D-ATIS 115.8	118.85	Data Comm ACARS: CPDLC: P-ATIS DCL PDC	118.2	SAN FRANCISCO Clearance (Cpt)	121.8	Ground	120.5	Tower	120.9	NW-E	122.21	NORCAL Departure (R)	135.1	SE-W
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LEGEND

- CENTERLINE LIGHTS
- LOW VISIBILITY TAXI ROUTE
- TAXIWAY AND APRON
- MOVEMENT/NON-MOVEMENT AREA BOUNDARY
- RUNWAY GUARD LIGHTS
- ILS HOLDLINE
- POSITION MARKING MOVEMENT AREA
- BLUE NUMERIC PAVEMENT REPORTING (POINTS LOCATED IN THE NON-MOVEMENT AREA)
- RUNWAY INCURSION HOT SPOTS (See 10-9 for description)

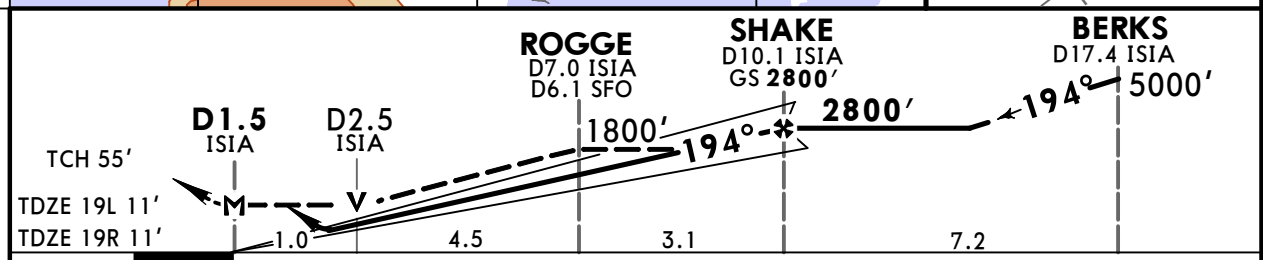
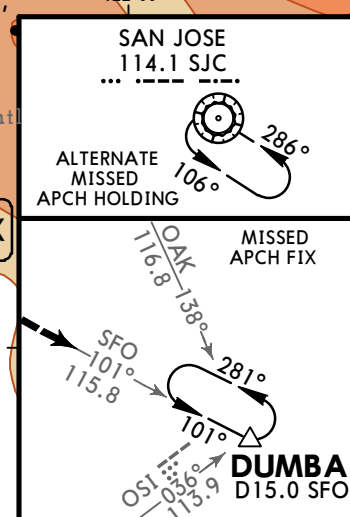
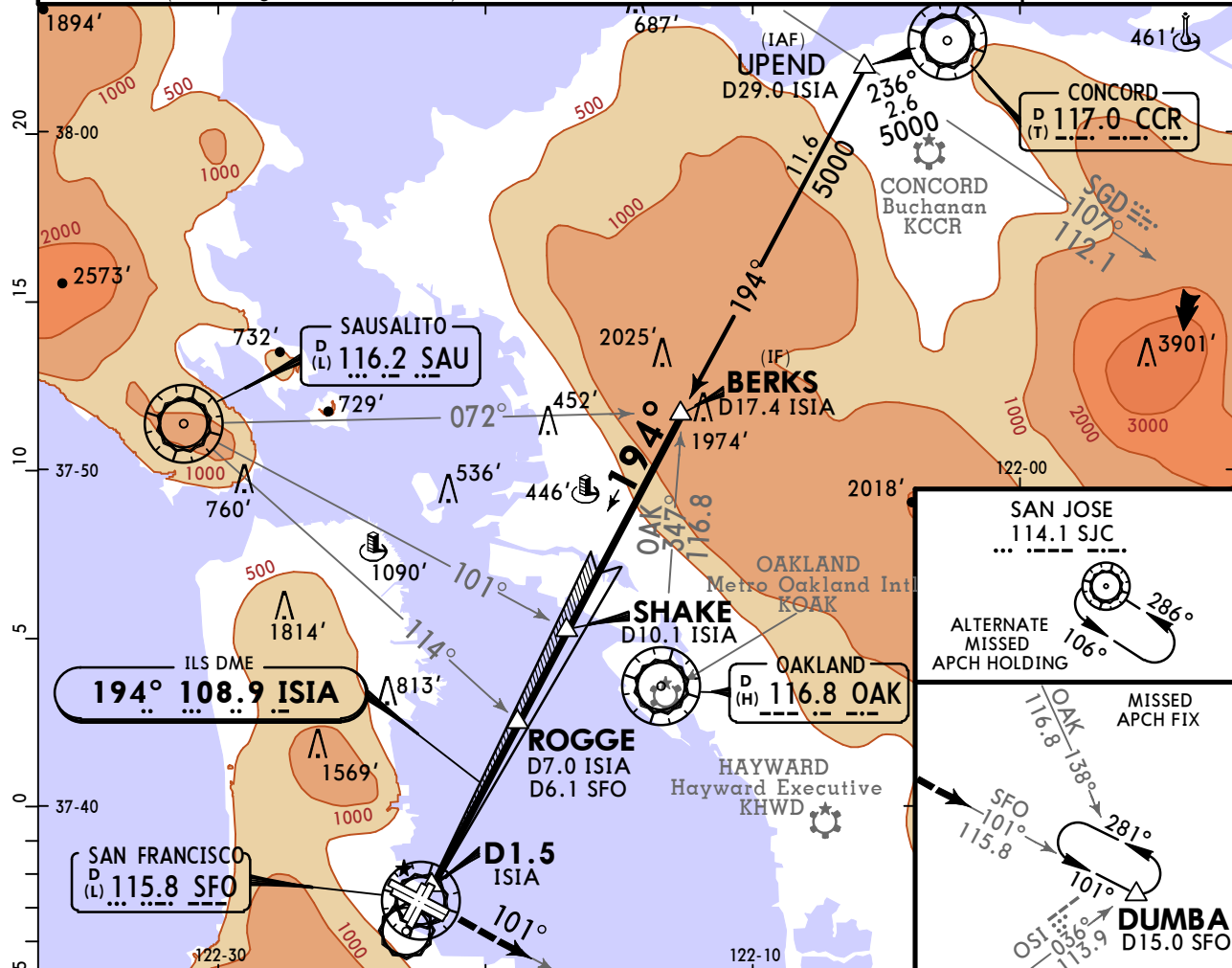
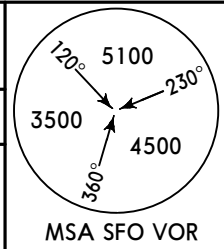


KSFO/SFO
SAN FRANCISCO INTL

JEPPESSEN
28 DEC 18 (11-1)

SAN FRANCISCO, CALIF
ILS or LOC Rwy 19L

D-ATIS 113.7 115.8 118.85		NORCAL Approach (R) 134.5		SAN FRANCISCO Tower 120.5		Ground 121.8	
LOC ISIA 108.9	Final Apch Crs 194°	GS SHAKE 2800' (2789')	ILS DA(H) 300' (289')	Apt Elev 13'		TDZE 11'	
MISSED APCH: Climb to 520', then climbing LEFT turn to 4000' outbound on SFO VOR R-101 to DUMBA INT/D15.0 SFO and hold.							
Alt Set: INCHES		Trans level: FL 180		Trans alt: 18000'			
1. Sidestep not authorized until passing ROGGE intersection. 2. Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on the glideslope. 3. VGSI and ILS glidepath not coincident (VGSI angle 3.00°/TCH 71').							



Gnd speed-Kts	70	90	100	120	140	160	MALSF	520'	4000'	SFO	DUMBA
GS	3.00°	372	478	531	637	743					
MAP at D1.5 ISIA or SHAKE to MAP	8.6	7:22	5:44	5:10	4:18	3:41	3:14	PAPI	↑	LT	on 115.8 R-101

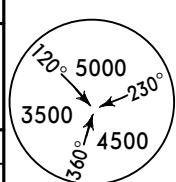
TERPS						STRAIGHT-IN LANDING RWY 19L			SIDESTEP LANDING RWY 19R					
ILS			LOC (GS out)			With ROGGE			Without ROGGE			With ROGGE		
DA(H) 300' (289')			MDA(H) 400' (389')			MDA(H) 400' (389')			MDA(H) 1800' (1789')			MDA(H) 400' (389')		
FULL			ALS out			ALS out			ALS out			ALS out		
A			RVR 40	RVR 50	RVR 55 or 1/4									
B	RVR 40 or 3/4	RVR 45 or 7/8	RVR 45	RVR 60	1/4	1/2								
C														
D					3									

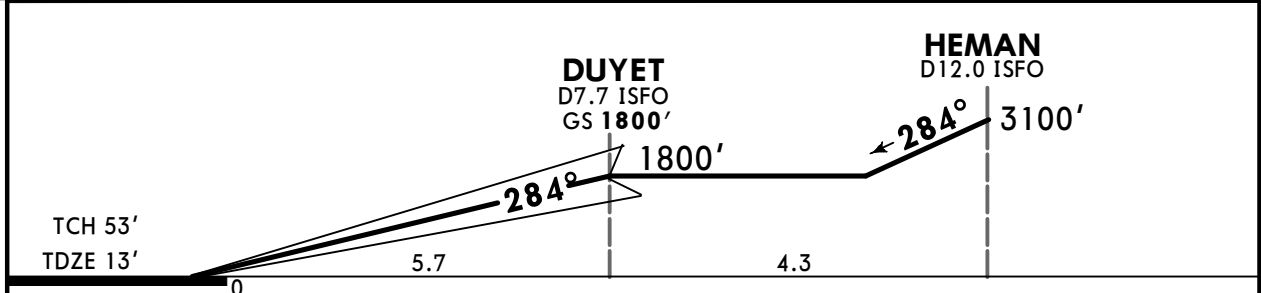
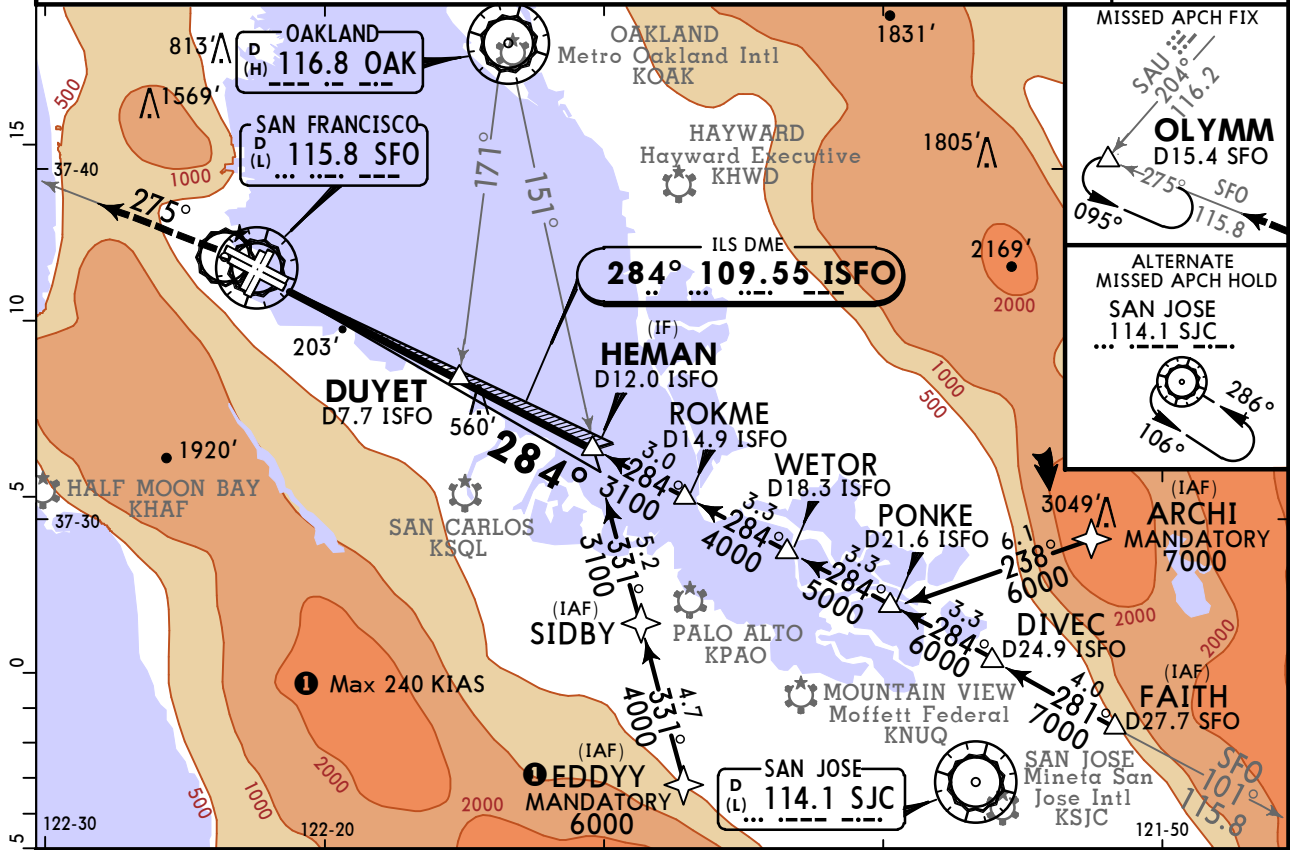
■ Dual VOR receivers or DME required.

KSFO/SFO
SAN FRANCISCO INTL

22 FEB 19 **11-2A**

SAN FRANCISCO, CALIF
ILS Rwy 28L SA CAT II

D-ATIS 113.7 115.8 118.85		NORCAL Approach (R) 134.5	SAN FRANCISCO Tower 120.5	Ground 121.8
LOC ISFO 109.55	Final Apch Crs 284°	GS DUYET 1800' (1787')	SA CAT II ILS RA 106' DA(H) 113' (100')	Apt Elev 13' TDZE 13'
MISSED APCH: Climb to 4000' outbound on SFO VOR R-275 to OLYMM INT/D15.4 SFO and hold, continue climb-in-hold to 4000'.				
Alt Set: INCHES		Trans level: FL 180	Trans alt: 18000'	
RNAV 1-GPS or RADAR required for procedure entry. DME required.				
1. Special Aircrew & Acft Certification Required. 2. Use ISFO DME when on LOC course. 3. VGSI and ILS glidepath not coincident (VGSI angle 2.85°/TCH 67').				



Gnd speed-Kts	70	90	100	120	140	160	MALSR PAPI	4000' SFO ↑ on 115.8 R-275 OLYMM
GS	2.85°	353	454	504	605	706		

TERPS STRAIGHT-IN LANDING RWY 28L
1 SA CAT II ILS
RA 106'
2 DA(H) 113' (100')

A	RVR 12
B	
C	
D	

- 1** Reduced lighting: Requires specific OPSPEC, MSPEC, or LOA approval and use of AUTOLAND or HUD to touchdown.
- 2** Missed approach requires minimum climb of 330'/NM to 1600'.

TERPS AMEND 27B 8 NOV 2018

KSFO/SFO

1 DEC 17

JEPPesen

11-3

Eff 7 Dec

SAN FRANCISCO, CALIF

SAN FRANCISCO INTL

ATTENTION ALL USERS OF ILS PRECISION RUNWAY MONITOR (PRM)**ILS PRM RWY 28L: Straight-in-Approach
(SIMULTANEOUS CLOSE PARALLEL)**

Pilots who are unable to participate will be afforded appropriate arrival services as operational conditions permit and must notify the controlling ATC facility as soon as practical, but at least 100 miles from destination.

Simultaneous PRM approaches will only be offered/conducted when the weather is at least 1600 feet (ceiling) and 4 miles (visibility).

General

Review procedure for executing a climbing and descending PRM breakout

Breakout Phraseology: "TRAFFIC ALERT (call sign) TURN (left/right)
IMMEDIATELY HEADING (degrees) CLIMB/DESCEND
AND MAINTAIN (altitude)."

All breakouts: Hand flown, initiate immediately.

Descending on the glideslope/glidepath ensures compliance with any charted crossing restrictions.

Dual VHF Comm.: When assigned or planning a specific PRM approach, tune a second receiver to the PRM monitor frequency or, if silent, another active frequency (i.e., ATIS), set the volume, retune the PRM frequency if necessary, then deselect the audio. When directed by ATC, switch to the appropriate approach control frequency and select the second receiver audio to ON.

Runway 28R: NORCAL approach 120.35

Runway 28L: NORCAL approach 135.65

If later assigned the same runway, non-PRM approach, consider it briefed provided the same minimums are utilized.

PRM related chart notes and PRM frequency no longer apply.

TCAS during breakout: Follow TCAS climb/descend if it differs from ATC, while executing the breakout turn.

Briefing Points: (Note: Identify NEPIC WP as 3.3 NM from Rwy 28L WP if not in the FMC approach coding.)

- Inside NEPIC, descending on (not above) the glideslope benefits the trailing 28R aircraft to avoid wake turbulence.
- Other aircraft may be conducting the PRM approach to runway 28R. These aircraft will approach from the right-rear and will re-align with runway 28R after making visual contact with the runway 28L landing traffic.
- Expect to be switched to SFO tower at NEPIC.
- PRM monitor frequency may be de-selected after determining that the aircraft is on the tower frequency.

KSFO/SFO

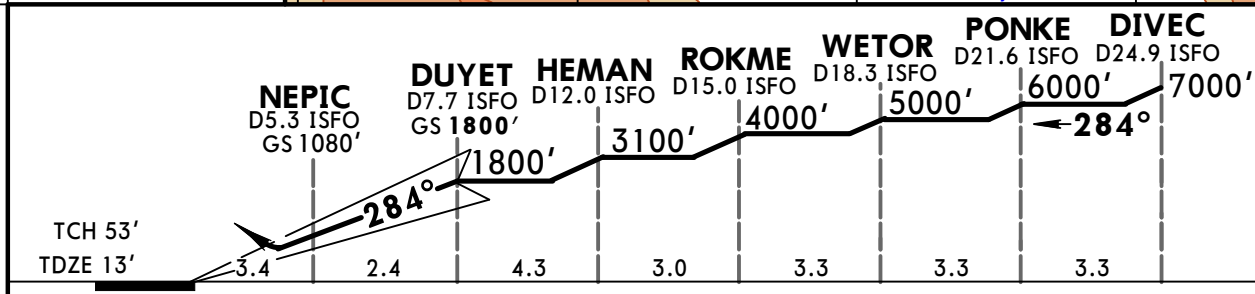
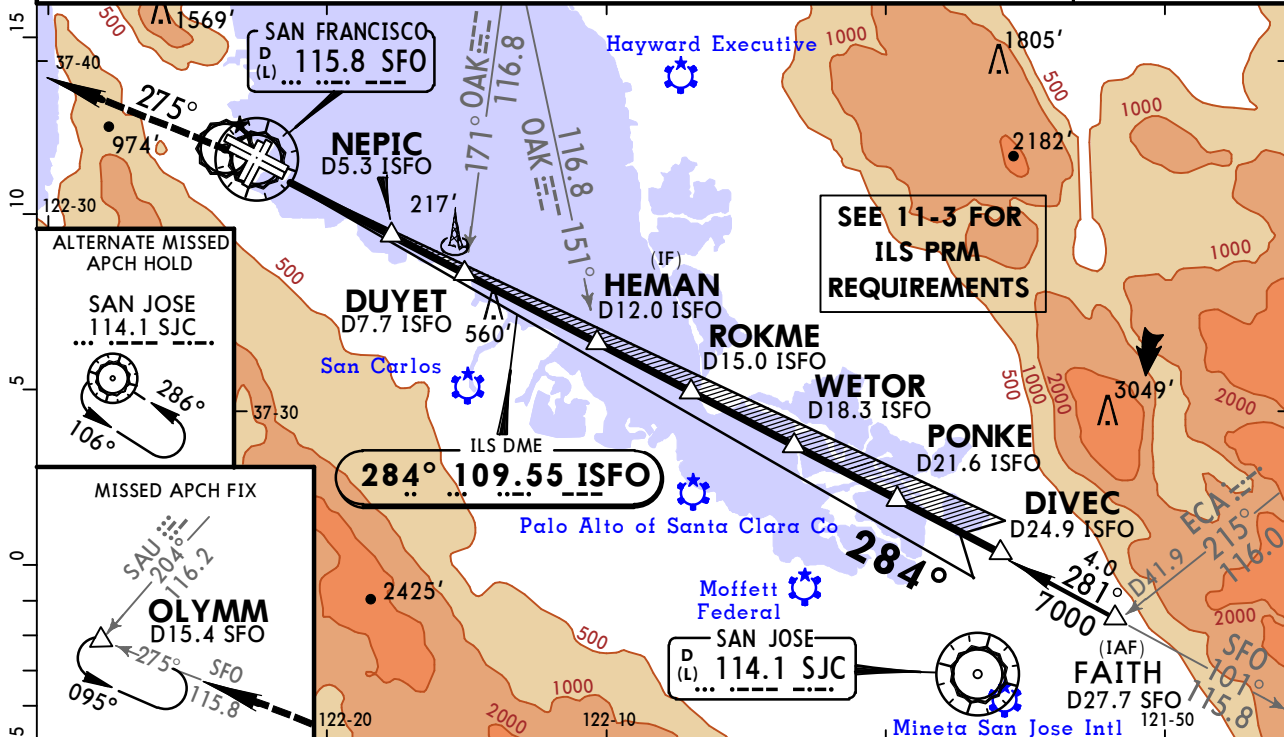
JEPPESEN
 1 DEC 17 **(11-3A)** Eff 7 Dec
 (SIMULTANEOUS CLOSE PARALLEL)

SAN FRANCISCO, CALIF

SAN FRANCISCO INTL

ILS PRM Rwy 28L

BRIEFING STRIP™	D-ATIS		NORCAL Approach (R)	SAN FRANCISCO Tower		Ground
	113.7	115.8 118.85	134.5	120.5	125.15	121.8
	LOC ISFO 109.55	Final Apch Crs 284°	GS DUYET 1800' (1787')	ILS DA(H) (CONDITIONAL) 213' (200')	Apt Elev 13' TDZE 13'	
<p>MISSED APCH: Climb to 4000' on SFO VOR R-275 to OLYMM INT/D15.4 SFO and hold, or as directed by ATC.</p> <p>Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'</p> <p>1. Radar and DME required. 2. Dual VHF communication required. 3. Runway 28L and 28R separated by 750' centerline to centerline. 4. Simultaneous close parallel approach authorized with LDA PRM Runway 28R and RNAV (GPS) PRM X Runway 28R. 5. Procedure not authorized when glide slope not available. 6. See 11-3 for "Attention All Users of ILS Precision Runway Monitor (PRM)". 7. Use ISFO DME when on the LOC course. 8. VGSi and ILS glidepath not coincident.</p>						
						<p>MSA SFO VOR</p>



Gnd speed-Kts	70	90	100	120	140	160	MALSR PAPI	4000'	SFO on 115.8 R-275	OLYMM
GS	2.85°	353	454	504	605	807				

TERPS		STRAIGHT-IN LANDING RWY 28L	
		ILS	
		DA(H) 213' (200')	
		FULL	RAIL/ALS out
A			
B			
C	2 RVR 24 or 1/2		RVR 40 or 3/4
D			

1 Missed approach requires a minimum climb of 325'/NM to 2100', if unable to meet climb gradient, see ILS or LOC Rwy 28L (11-2).
2 RVR 18 authorized with the use of Flight Director or Autopilot or HUD to DA(H).

TERPS AMEND 3A 26 JUN 2014

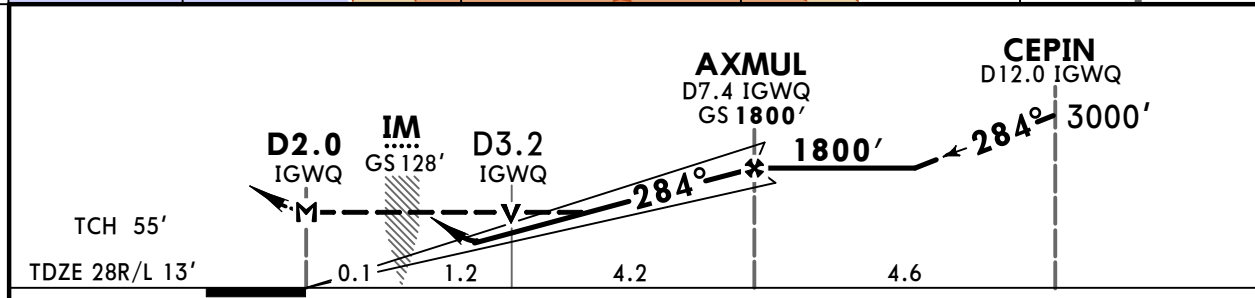
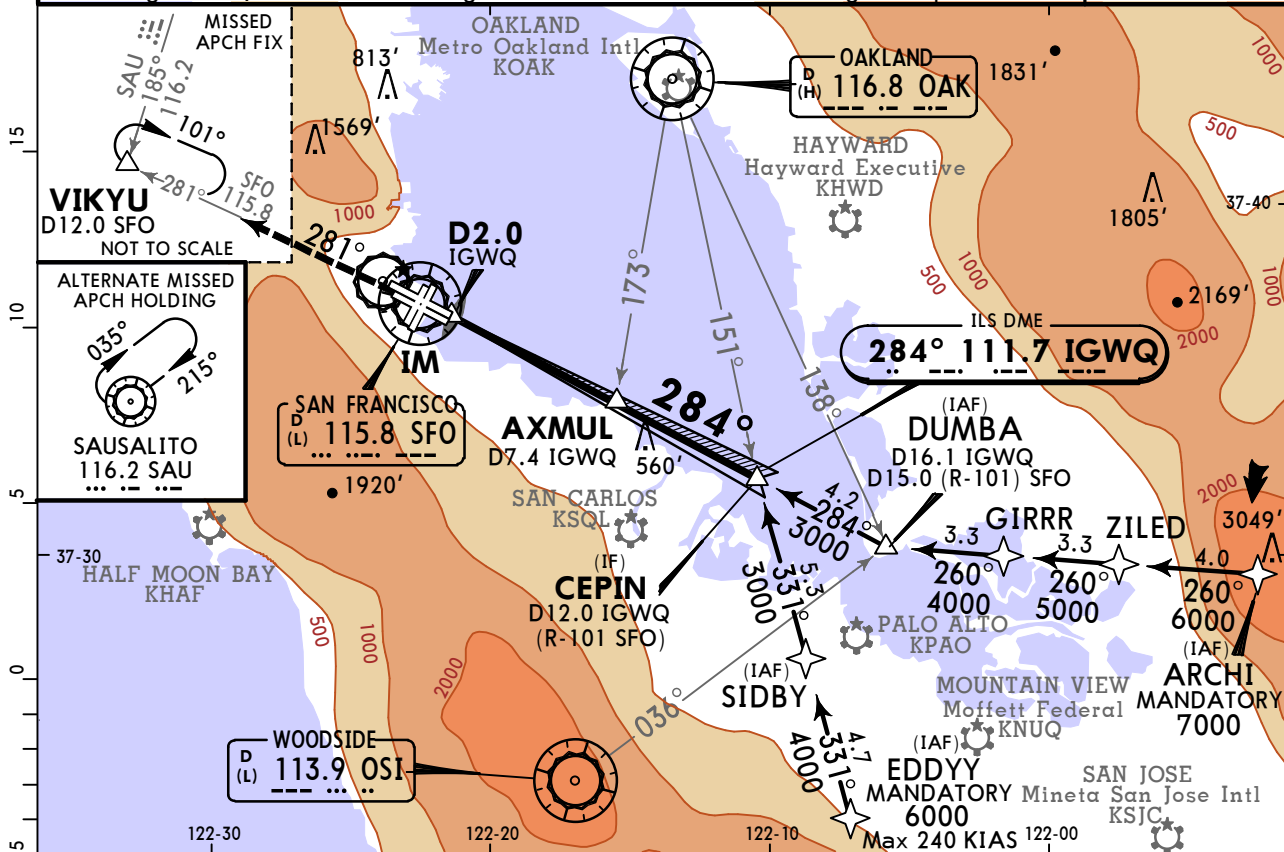
KSFO/SFO SAN FRANCISCO INTL

28 DEC 18

(11-4)

JEPPESEN SAN FRANCISCO, CALIF ILS or LOC Rwy 28R

D-ATIS 113.7	115.8	118.85	NORCAL Approach (R) 134.5	SAN FRANCISCO Tower 120.5	Ground 121.8
LOC IGWQ 111.7	Final Apch Crs 284°	GS AXMUL 1800' (1787')	ILS DA(H) 213' (200')	Apt Elev 13' TDZE 28R 13'	<p>MSA SFO VOR</p>
MISSED APCH: Climb to 3000' on SFO VOR R-281 to VIKYU INT/ D12.0 SFO and hold. Missed approach requires minimum climb of 350'/NM to 1900'; if unable to meet climb gradient, see ILS or LOC Rwy 28L (11-2).					
Alt Set: INCHES			Trans level: FL 180		
RNAV 1-GPS or RADAR required for procedure entry.					
1. Circling Rwy 1L, 1R not authorized at night. 2. Use IGWQ DME when on the localizer course. 3. VGSI and ILS glidepath not coincident (VGSI angle 3.00°/TCH 68'). 4. MALSR, PAPI-L on Rwy 28L. 5. LOC procedure not authorized during simultaneous operations. 6. CAT I ILS: Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glideslope.					



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II PAPI 3000' on 115.8 VIKYU R-281
GS	3.00°	372	478	531	637	849	
MAP at D2.0 IGWQ or AXMUL to MAP	5.4	4:38	3:36	3:14	2:42	2:19	

	STRAIGHT-IN LANDING RWY 28R			LOC (GS out)		SIDESTEP LANDING RWY 28L		CIRCLE-TO-LAND	
	FULL	TDZ/CL out	ALS out	MDA(H)	ALS out	MDA(H)	RAIL/ALS out	Max Kts	MDA(H)
A				480' (467')	RVR 24 or 1/2	480' (467')		90	740' (727') -1
B	RVR 18 or 1/2	RVR 24 or 1/2	RVR 40 or 3/4		RVR 50 or 1		RVR 55 or 1/4	120	960' (947') -1 1/4
C					RVR 50 or 1			140	1560' (1547') -3
D							1 1/2	D	NA

RVR 18 with Flight Director or Autopilot or HUD to DA(H).

KSFO/SFO SAN FRANCISCO INTL

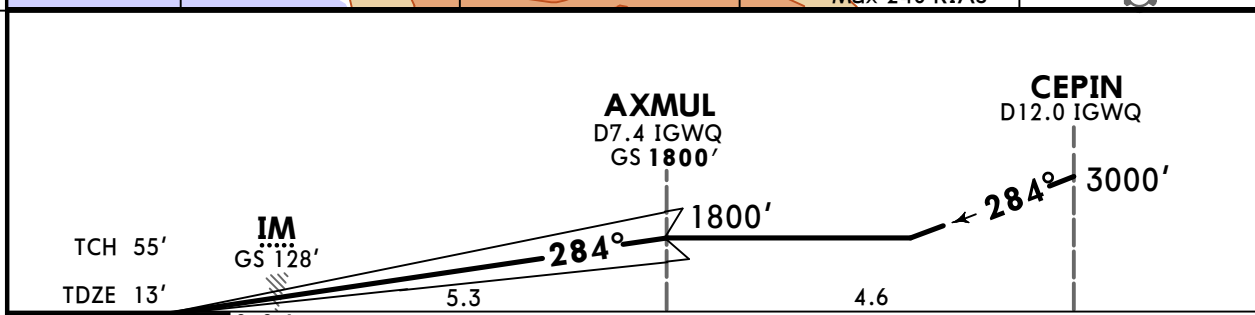
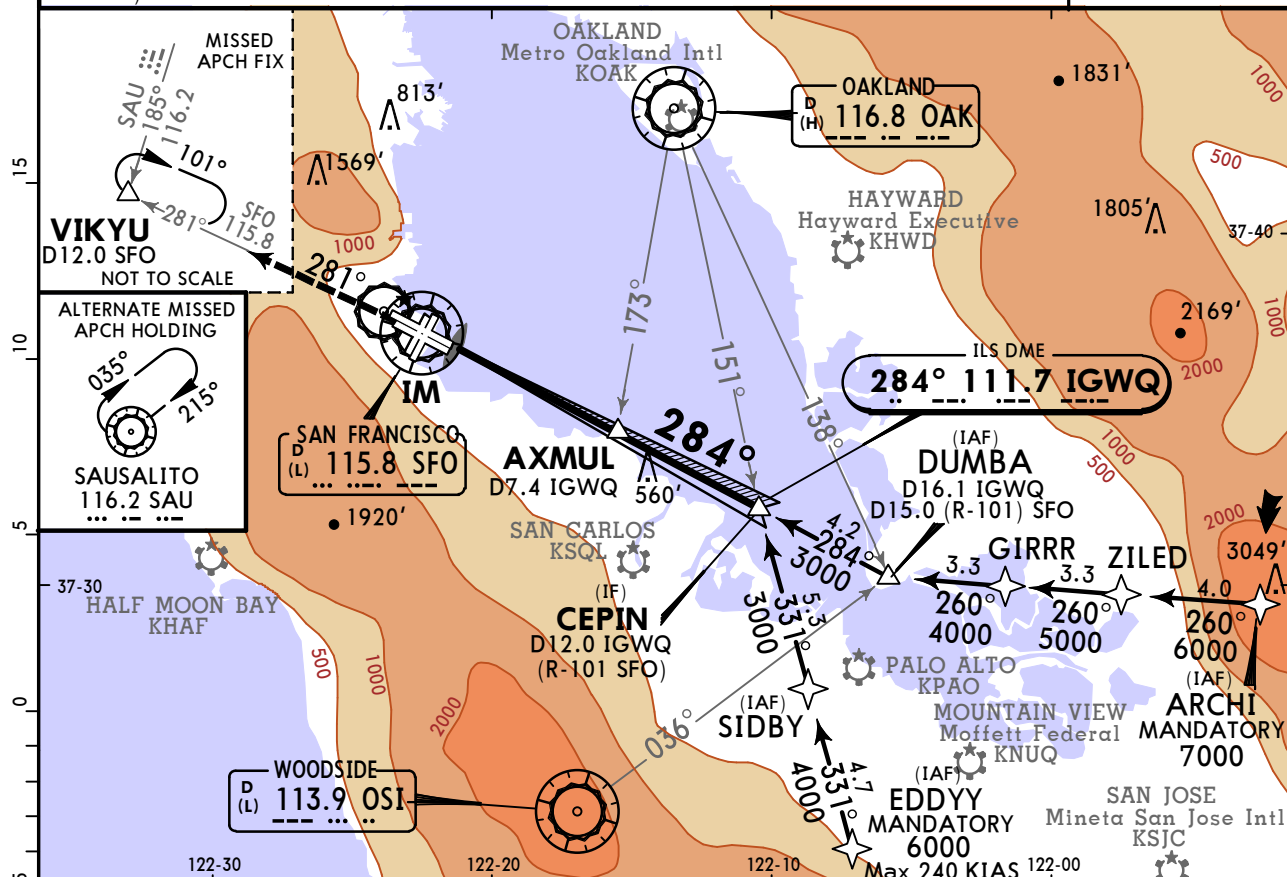
28 DEC 18



SAN FRANCISCO, CALIF ILS Rwy 28R CAT II & III

BRIEFING STRIP™

D-ATIS		NORCAL Approach (R)		SAN FRANCISCO Tower		Ground		
113.7 115.8 118.85		134.5		120.5		121.8		
LOC IGWQ 111.7	Final Apch Crs 284°	GS AXMUL 1800' (1787')	CAT III Refer to Minimums	CAT II ILS RA 113' DA(H) 113' (100')	Apt Elev 13' TDZE 13'	<p>MSA SFO VOR</p>		
<p>MISSED APCH: Climb to 3000' on SFO VOR R-281 to VIKYU INT/ D12.0 SFO and hold. Missed approach requires minimum climb of 350'/NM to 1900'; if unable to meet climb gradient, see ILS or LOC Rwy 28L (11-2).</p>								
Alt Set: INCHES		Trans level: FL 180		Trans alt: 18000'				
<p>RNAV 1-GPS or RADAR required for procedure entry.</p> <p>1. Special Aircrew & Acft Certification Required. 2. Use IGWQ DME when on the localizer course. 3. VGSI and ILS glidepath not coincident (VGSI angle 3.00°/TCH 68').</p>								



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II PAPI 3000' on 115.8 R-281	SFO VIKYU
GS	3.00°	372	478	531	637	743		

TERPS		STRAIGHT-IN LANDING RWY28R	
CAT III ILS		CAT II ILS RA 113' DA(H) 113' (100')	
RVR 6		RVR 12	

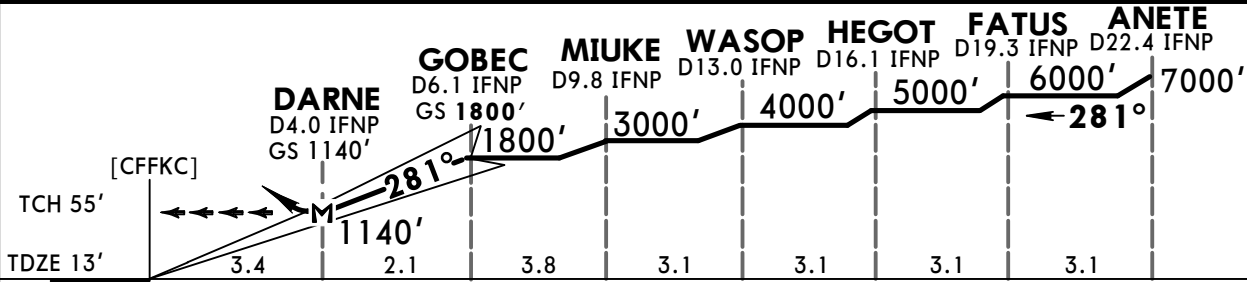
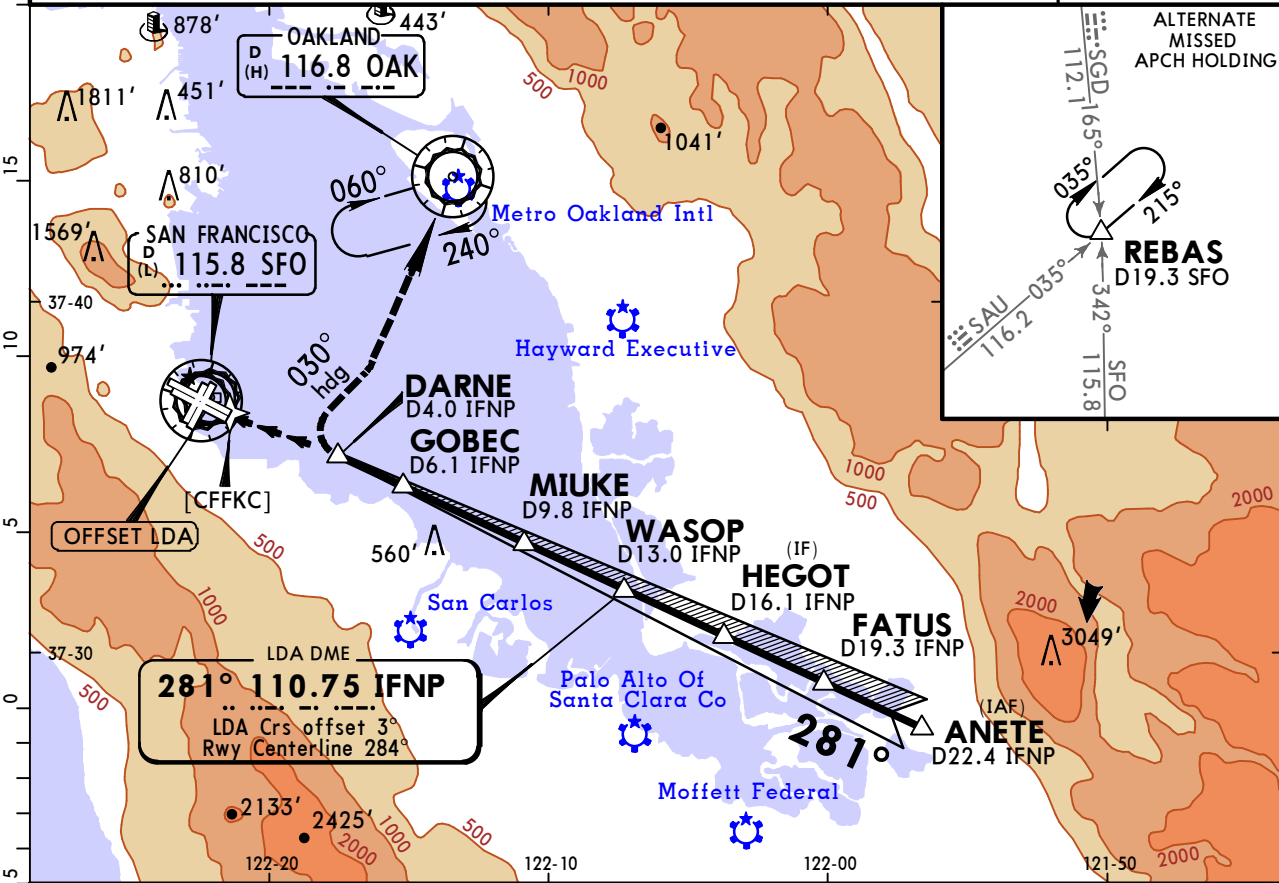
TERPS AMEND 15A 13 SEP 2018

KSFO/SFO SAN FRANCISCO INTL

JEPPESEN
4 NOV 16 (11-5) Eff 10 Nov

SAN FRANCISCO, CALIF LDA DME Rwy 28R

BRIEFING STRIP™	D-ATIS		NORCAL Approach (R)		SAN FRANCISCO Tower		Ground	
	113.7	115.8	118.85	134.5	120.5		121.8	
	LDA IFNP 110.75	Final Apch Crs 281°	GS GOBEC 1800' (1787')	DA(H) (CONDITIONAL) 1140' (1127')	Apt Elev 13'		TDZE 13'	
MISSED APCH: Climbing RIGHT turn to 3000' on heading 030° then direct OAK VOR and hold, or as directed by ATC.								<p>MSA SFO VOR</p>
Alt Set: INCHES Trans level: FL 180 Trans alt: 18000' 1. RADAR and DME required. 2. LDA/GLIDESLOPE. 3. Runway 28L and 28R separated by 750' centerline to centerline. 4. Procedure not authorized when glideslope is not available. 5. Localizer course 1183' right of rwy 28R THR. 6. VGSI and LDA glidepath not coincident.								
20								



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II	3000' on 030° hdg	D → OAK 116.8
GS	3.00°	372	478	531	637	743			
MAP at DARNE									

TERPS STRAIGHT-IN LANDING RWY 28R
 LDA/GS
 DA(H) **1140'** (1127')

FULL	ALS out
------	---------

TERPS AMEND 2B 13 OCT 2016

A	4
B	
C	
D	

1 If go around executed after passing DARNE, go around requires minimum climb of 380'/NM to 1800'

KSFO/SFO



JEPPESEN

SAN FRANCISCO, CALIF

1 DEC 17

11-6

Eff 7 Dec

SAN FRANCISCO INTL

ATTENTION ALL USERS OF LDA PRECISION RUNWAY MONITOR (PRM)**LDA PRM RWY 28R: Offset Approach with glideslope
(SIMULTANEOUS CLOSE PARALLEL)**

Pilots who are unable to participate will be afforded appropriate arrival services as operational conditions permit and must notify the controlling ATC facility as soon as practical, but at least 100 miles from destination.

Simultaneous PRM approaches will only be offered/conducted when the weather is at least 1600 feet (ceiling) and 4 miles (visibility).

General

Review procedure for executing a climbing and descending PRM breakout

Breakout Phraseology: "TRAFFIC ALERT (call sign) TURN (left/right)
IMMEDIATELY HEADING (degrees) CLIMB/DESCEND
AND MAINTAIN (altitude)."

All breakouts: Hand flown, initiate immediately.

Descending on the glideslope/glidepath ensures compliance with any charted crossing restrictions.

Dual VHF Comm.: When assigned or planning a specific PRM approach, tune a second receiver to the PRM monitor frequency or, if silent, another active frequency (i.e., ATIS), set the volume, retune the PRM frequency if necessary, then deselect the audio. When directed by ATC, switch to the appropriate approach control frequency and select the second receiver audio to ON.

Runway 28R: NORCAL approach 120.35

Runway 28L: NORCAL approach 135.65

If later assigned the same runway, non-PRM approach, consider it briefed provided the same minimums are utilized.

PRM related chart notes and PRM frequency no longer apply.

TCAS during breakout: Follow TCAS climb/descend if it differs from ATC, while executing the breakout turn.

Briefing Points: (Note: Identify DARNE as I-FNP LOC/DME 4 NM if not in the FMC approach coding.)

- If required, develop a wake mitigation strategy as soon as practical. Inside DARNE pilots will be operating visually in close proximity to the 28L aircraft and will be responsible for wake turbulence and collision avoidance.
- Descending on the glideslope ensures compliance with any charted crossing restrictions.
- Continuing past DARNE requires reporting the 28L traffic in sight (ATC need not respond), and seeing the runway.
- Remain on the LDA until passing DARNE so as not to penetrate the NTZ.
- Expect to be switched to SFO tower at DARNE.
- PRM monitor frequency may be de-selected after determining that the aircraft is on the tower frequency.
- After passing DARNE, DO NOT PASS.
- Glideslope valid to the runway threshold.
- If executing a go-around between DARNE and runway 28R threshold, initially establish a climbing right turn heading 030° unless otherwise instructed by ATC. Missed approach leg from airport to OAK VOR, if depicted on a map display, is for reference only. Follow IAP published missed approach procedure unless otherwise instructed by ATC.

KSFO/SFO

JEPPESEN SAN FRANCISCO, CALIF

1 DEC 17 (11-6A) Eff 7 Dec

SAN FRANCISCO INTL

(SIMULTANEOUS CLOSE PARALLEL)

LDA PRM Rwy 28R

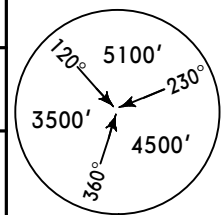
D-ATIS 113.7 115.8 118.85			NORCAL Approach (R) 134.5	SAN FRANCISCO Tower 120.5 Monitor Frequency 127.675	Ground 121.8
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LDA IFNP 110.75	Final Apch Crs 281°	GS GOBEC 1800' (1787')	DA(H) 1140' (1127')	Apt Elev 13' TDZE 13'
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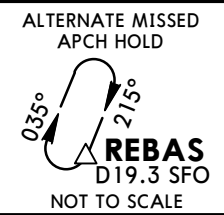
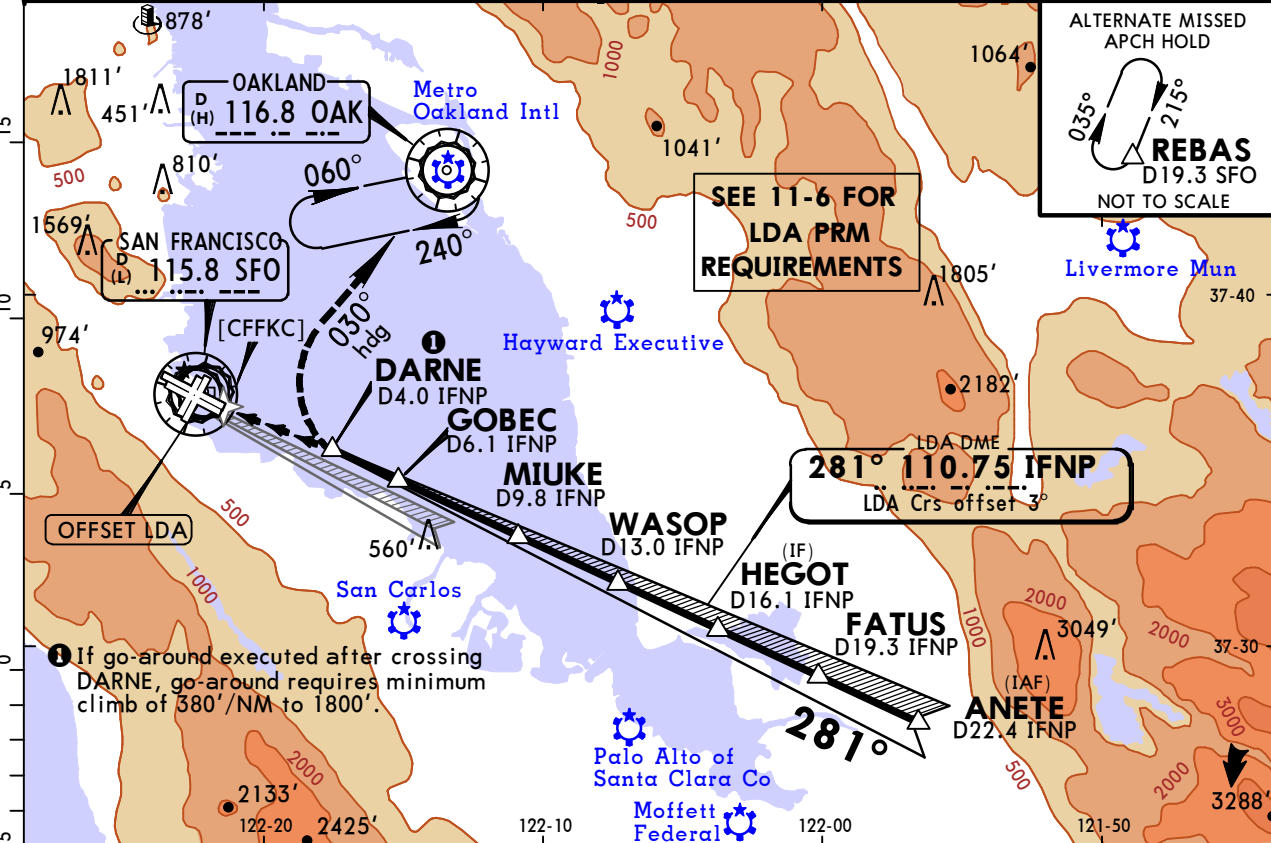
BRIEFING STRIP™

MISSED APCH: Climbing RIGHT turn to 3000' on heading 030° then direct OAK VOR and hold, or as directed by ATC.

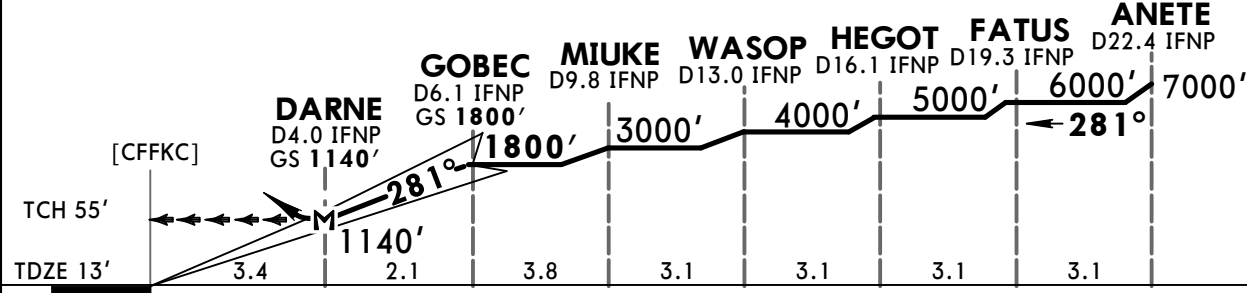
- Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'
1. **RADAR and DME required.**
 2. **Dual VHF communication required.**
 3. LDA/GLIDESLOPE.
 4. Simultaneous approach authorized with ILS PRM Rwy 28L and RNAV (GPS) PRM Rwy 28L.
 5. See 11-6 for "Attention All Users of LDA Precision Runway Monitor (PRM)".
 6. LOC offset 3.00°.
 7. Runways 28L and 28R separated by 750' centerline to centerline.
 8. Localizer course 1183' right of Rwy 28R THR.
 9. Procedure not authorized when glideslope not available.
 10. VGSI and LDA glidepath not coincident.



MSA SFO VOR



① If go-around executed after crossing DARNE, go-around requires minimum climb of 380'/NM to 1800'.



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II PAPI	3000' RT on 030° hdg	D	OAK 116.8
GS	3.00°	372	478	531	637	849				

TERPS AMEND 2B 13 OCT 2016

TERPS		STRAIGHT-IN LANDING RWY 28R	
		LDA/GS	
		DA(H) 1140' (1127')	
FULL		ALS out	

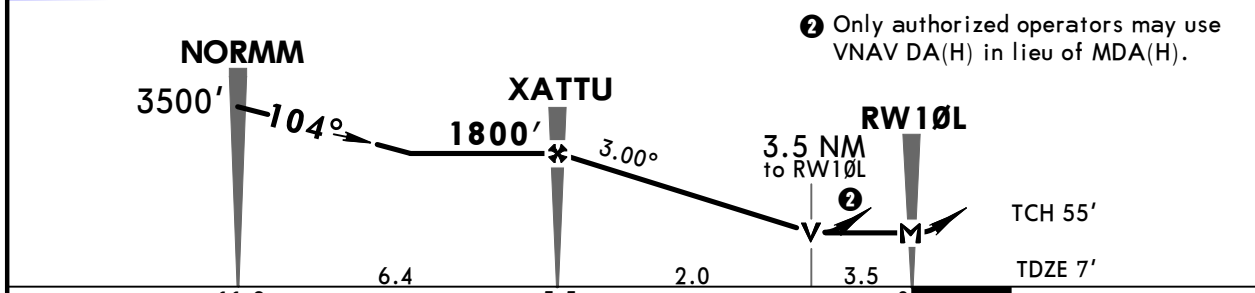
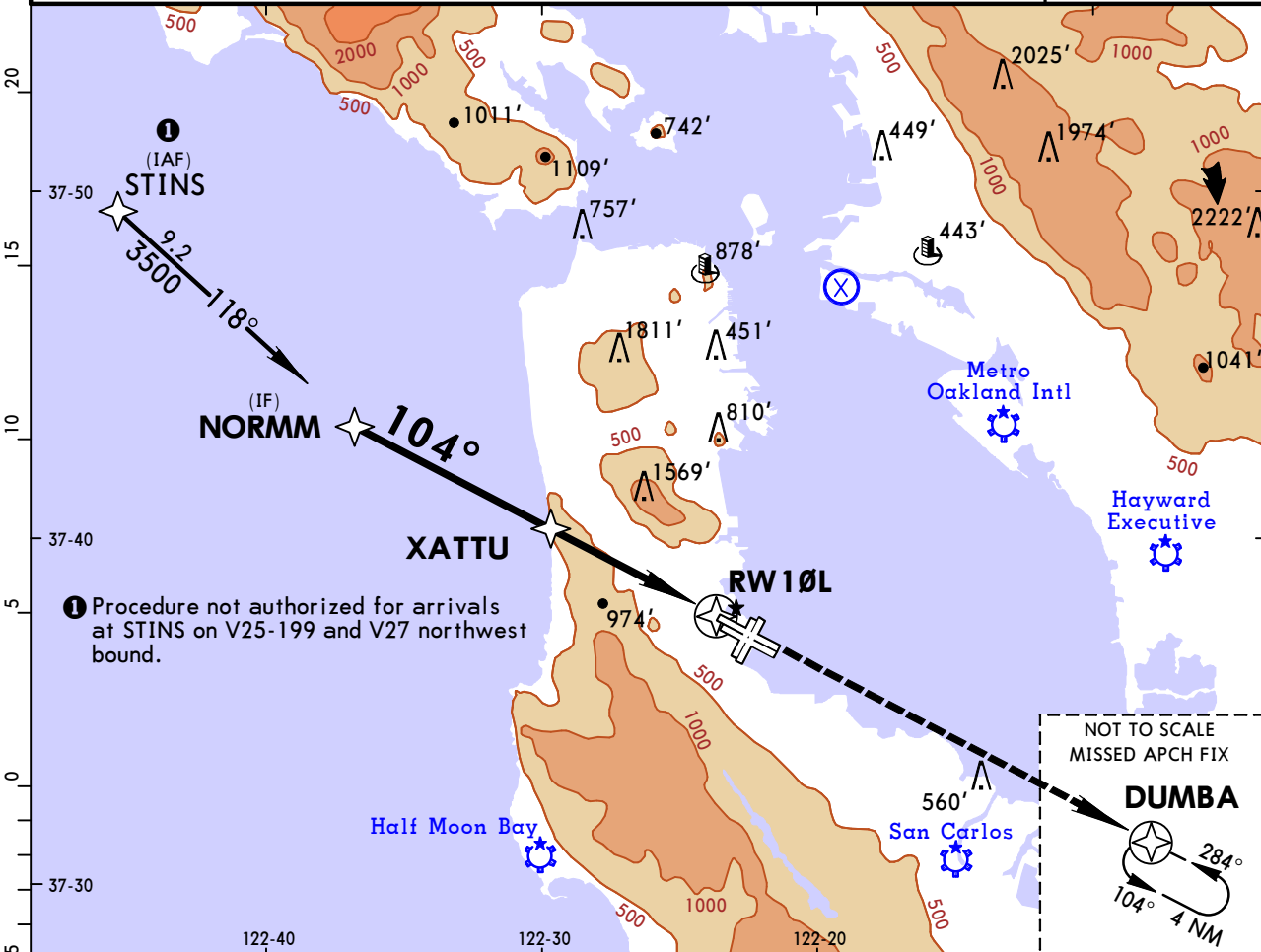
A	
B	
C	
D	

KSFO/SFO
SAN FRANCISCO INTL

JEPPESEN
4 NOV 16
Eff 10 NOV 12-1

SAN FRANCISCO, CALIF
RNAV (GPS) Rwy 10L

D-ATIS		NORCAL Approach (R)		SAN FRANCISCO Tower		Ground
113.7	115.8 118.85	134.5		120.5		121.8
RNAV	Final Apch Crs 104°	Minimum Alt XATTU 1800' (1793')	LNAV MDA(H) 1200' (1193')	Apt Elev 13' TDZE 7'		5100' MSA RW10L
MISSED APCH: Climb to 4000' direct DUMBA and hold.						
Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'						
1. DME/DME RNP-0.30 not authorized. 2. VGSI and descent angles not coincident. 3. Helicopter visibility reduction below RVR 40 not authorized.						



Gnd speed-Kts	70	90	100	120	140	160			
Descent angle	3.00°	372	478	531	637	849			
MAP at RW10L									

TERPS STRAIGHT-IN LANDING RWY 10L
LNAV MDA(H) **1200'** (1193')

A	RVR 60 or 1/4
B	1/2
C	
D	3

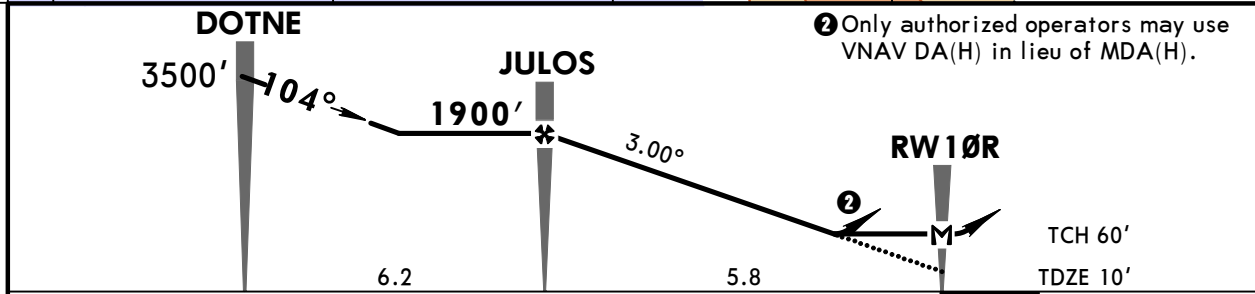
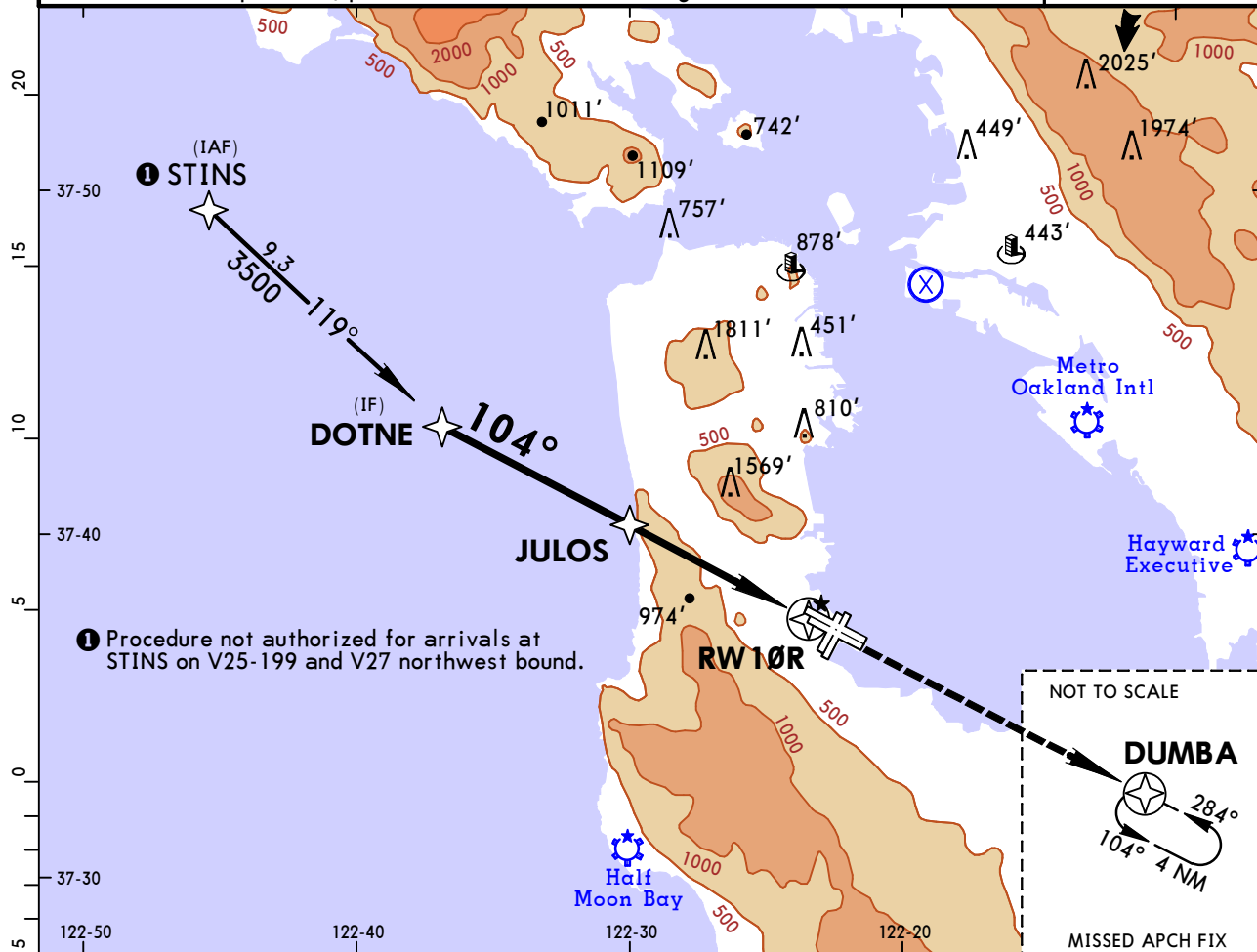
TERPS AMEND 2A 26 JUN 2014

KSFO/SFO
SAN FRANCISCO INTL

JEPPESEN
4 NOV 16
Eff 10 Nov (12-2)

SAN FRANCISCO, CALIF
RNAV (GPS) Y Rwy 10R

D-ATIS		NORCAL Approach (R)		SAN FRANCISCO Tower		Ground
113.7	115.8 118.85	134.5		120.5		121.8
RNAV	Final Apch Crs 104°	Minimum Alt JULOS 1900' (1890')	LNAV MDA(H) 1200' (1190')	Apt Elev 13' TDZE 10'		5100' MSA RW10R
MISSED APCH: Climb to 4000' direct DUMBA and hold.						
Alt Set: INCHES		Trans level: FL 180		Trans alt: 18000'		
1. DME/DME RNP-0.30 not authorized. 2. Helicopter visibility reduction below RVR 50 not authorized. 3. VGSI and descent angles not coincident. 4. When VGSI inoperative, procedure not authorized at night.						



Gnd speed-Kts	70	90	100	120	140	160	PAPI-L	4000'	D →	DUMBA
Descent Angle	3.00°	372	478	531	637	743				
MAP at RW10R										

TERPS										
STRAIGHT-IN LANDING RWY 10R										
LNAV										
MDA(H) 1200' (1190')										
A	RVR 60 or 1/4									
B	1 1/2									
C	3									
D										

TERPS AMEND 2A 26 JUN 2014

KSFO/SFO SAN FRANCISCO INTL

JEPPESSEN

SAN FRANCISCO, CALIF

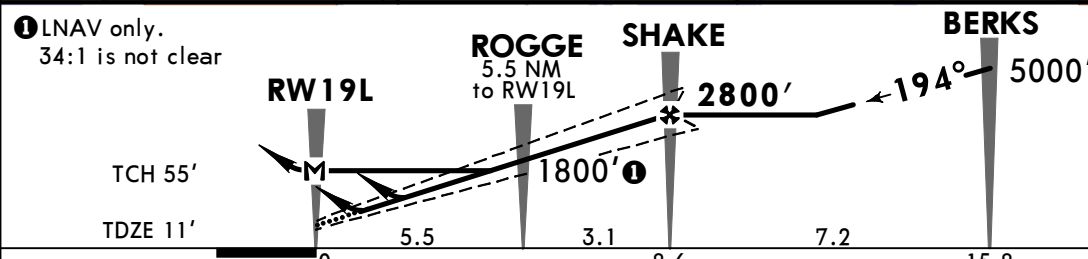
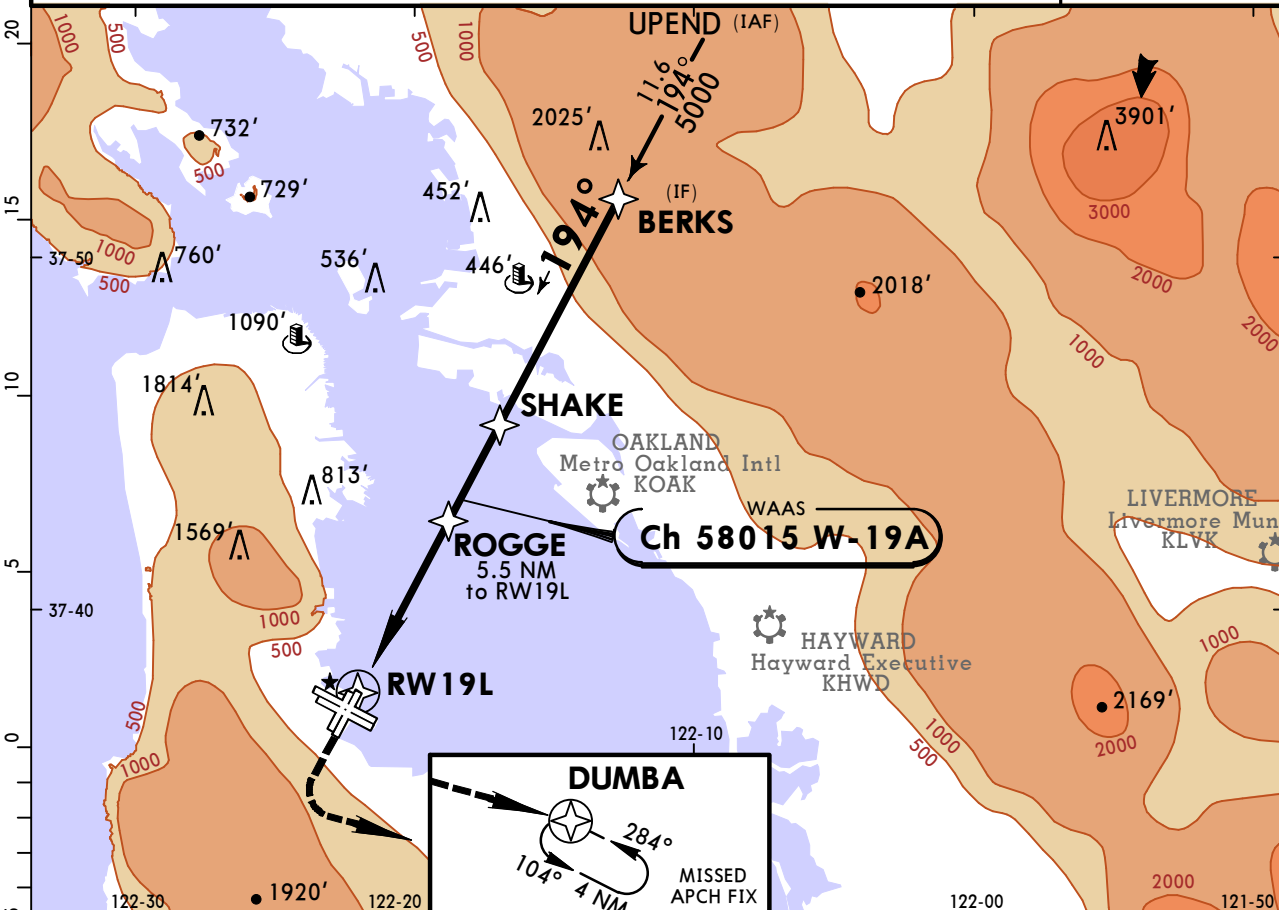
2 NOV 18

(12-3)

Eff 8 Nov

RNAV (GPS) Rwy 19L

D-ATIS 113.7 115.8 118.85			NORCAL Approach (R) 134.5	SAN FRANCISCO Tower 120.5	Ground 121.8
WAAS Ch 58015 W-19A	Final Apch Crs 194°	Minimum Alt SHAKE 2800' (2789')	LPV DA(H) 293' (282')	Apt Elev 13' TDZE 11'	5100 MSA RW19L
MISSED APCH: Climb to 500' then climbing LEFT turn to 3000' direct DUMBA and hold.					
RNP Apch	Alt Set: INCHES	Trans level: FL 180	Trans alt: 18000'		
1. VGSI and RNAV glidepath not coincident: (VGSI angle 3.00°/TCH 71'). 2. For uncompensated Baro-VNAV systems, LNAV/VNAV not authorized below 3°C or above 54°C. 3. Helicopter visibility reduction below 1 SM not authorized.					



Gnd speed-Kts	70	90	100	120	140	160	MALSF PAPI	500'	3000'	D	DUMBA
Glide Path Angle	3.00°	372	478	531	637	849		↑	LT		
LPV, LNAV/VNAV: MAP at DA											
LNAV: MAP at RW19L											

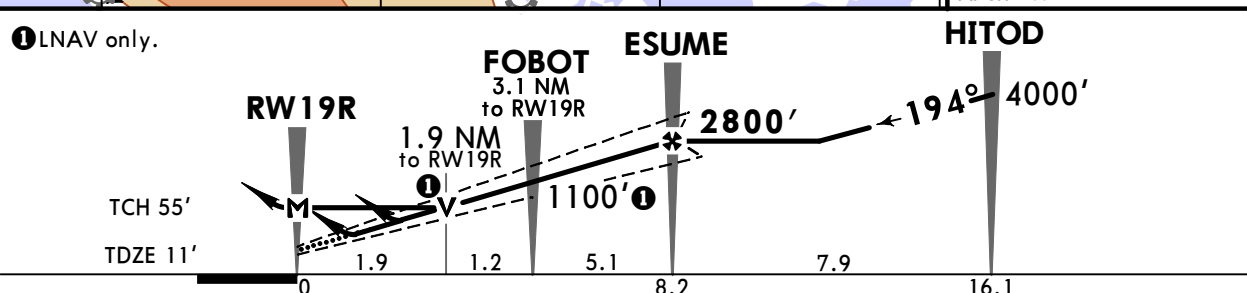
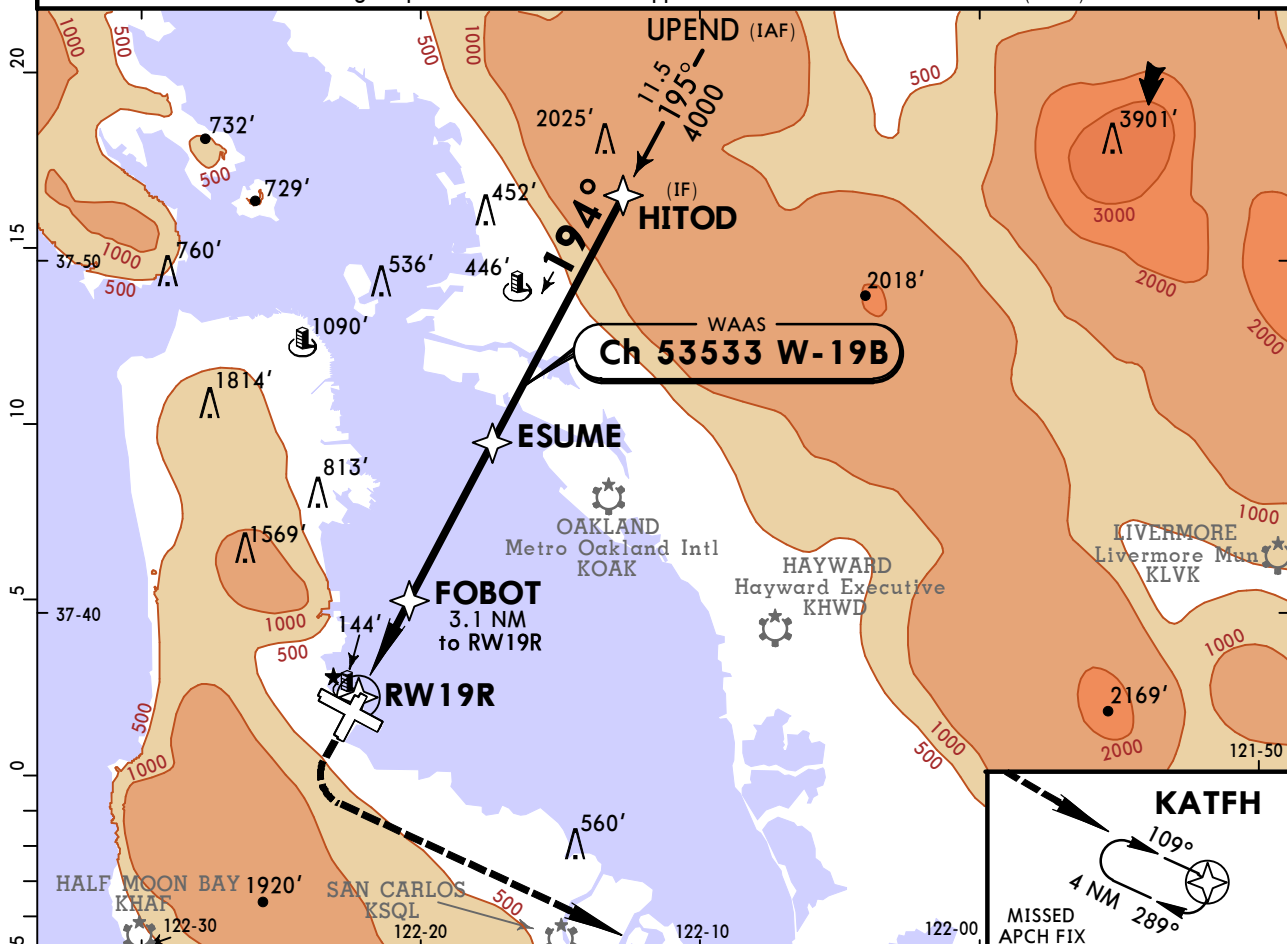
	LPV		LNAV/VNAV		LNAV	
	DA(H)	ALS out	DA(H)	ALS out	MDA(H)	ALS out
A	293' (282')		350' (339')		560' (549')	
B	RVR 40 or 3/4	RVR 45 or 7/8	RVR 40 or 3/4		RVR 40 or 3/4	RVR 55 or 1 1/4
C				RVR 60 or 1 1/4		
D	RVR 50 or 1		RVR 50 or 1		1 3/8	1 7/8

TERPS AMEND 3A 8 NOV 2018

KSFO/SFO SAN FRANCISCO INTL

JEPPESEN SAN FRANCISCO, CALIF 2 NOV 18 (12-4) Eff 8 Nov RNAV (GPS) Rwy 19R

D-ATIS 113.7 115.8 118.85		NORCAL Approach (R) 134.5		SAN FRANCISCO Tower 120.5		Ground 121.8	
WAAS Ch 53533 W-19B		Final Apch Crs 194°		Minimum Alt ESUME 2800' (2789')		LPV DA(H) 382' (371')	
				Apt Elev 13'		TDZE 11'	
MISSED APCH: Climb to 600' then climbing LEFT turn to 3000' direct KATFH and hold.							5100
RNP Apch		Alt Set: INCHES		Trans level: FL 180		Trans alt: 18000'	
							MSA RW19R
<p>1. For uncompensated Baro-VNAV systems, LNAV/VNAV not authorized below 3°C (38°F) or above 42°C (108°F). 2. LNAV procedure not authorized during simultaneous operations. 3. Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glidepath. 4. Simultaneous approach not authorized below 28°C (52°F).</p>							



Gnd speed-Kts	70	90	100	120	140	160	PAPI-L	600'	3000'	D → KATFH
Glide Path Angle 3.15°	390	502	557	669	780	892				
LPV, LNAV/VNAV: MAP at DA										
LNAV: MAP at RW19R										

TERPS			STRAIGHT-IN LANDING RWY 19R		
	LPV	LNAV/VNAV	LNAV		
	DA(H) 382' (371')	DA(H) 449' (438')	MDA(H) 660' (649')		
A			RVR 55 or 1/4		
B	RVR 55 or 1/4	1/4			
C					
D			1/8		

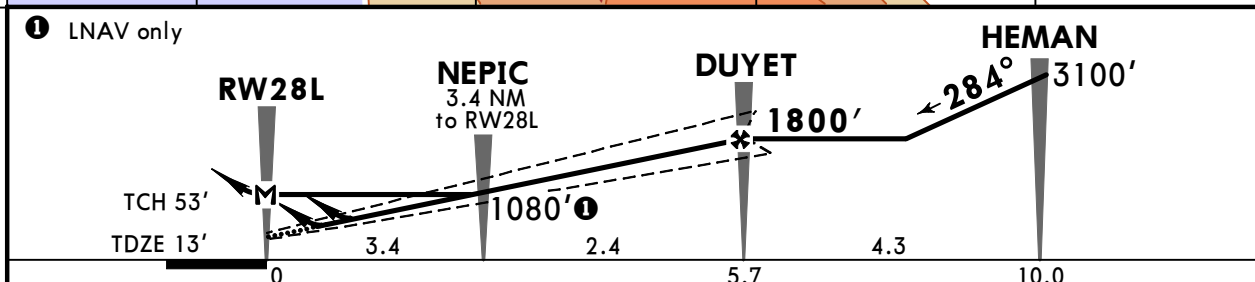
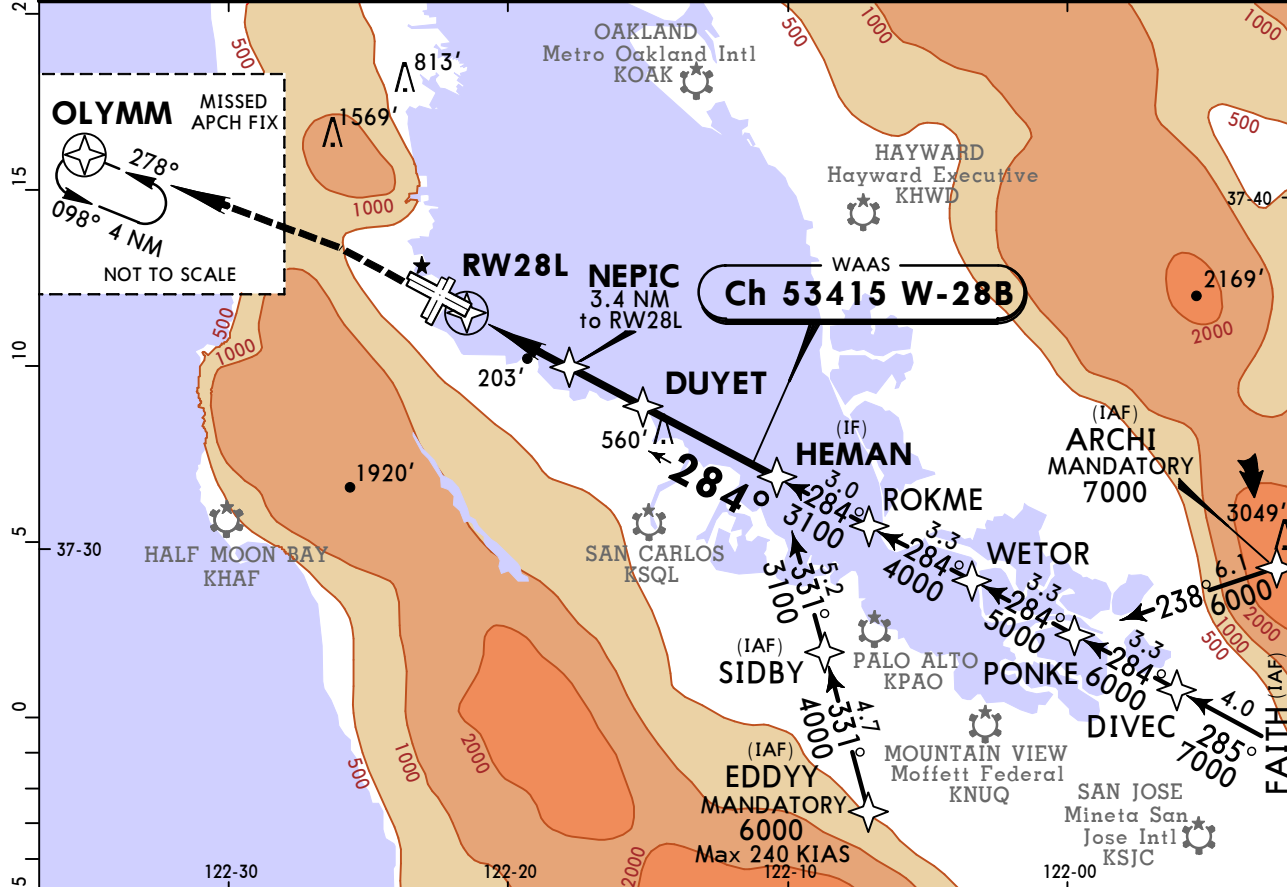
TERPS AMEND 3 13 SEP 2018

KSFO/SFO SAN FRANCISCO INTL

JEPPESSEN
5 OCT 18 (12-5)

SAN FRANCISCO, CALIF RNAV (GPS) Rwy 28L

D-ATIS 113.7 115.8 118.85		NORCAL Approach (R) 134.5		SAN FRANCISCO Tower 120.5		Ground 121.8		
WAAS Ch 53415 W-28B		Final Apch Crs 284°		Minimum Alt DUYET 1800' (1787')		LPV DA(H) (CONDITIONAL) 213' (200')		
				Apt Elev 13'		TDZE 13'		
MISSED APCH: Climb to 1020' then climbing LEFT turn to 4000' direct OLYMM and hold, continue climb-in-hold to 4000'.							5100	
RNP Apch		Alt Set: INCHES		Trans level: FL 180		Trans alt: 18000'		
1. Circling Rwy 1L/R not authorized at night. 2. For uncompensated Baro-VNAV systems, LNAV/VNAV not authorized below 3°C (38°F) or above 54°C (130°F). 3. VGSI and RNAV glidepath not coincident (VGSI angle 2.85°/TCH 67').								
							MSA RW28L	



Gnd speed-Kts	70	90	100	120	140	160	MALSR	1020'	4000'	OLYMM
Glide Path Angle	2.85°	353	454	504	605	706	PAPI	↑	LT	
LPV, LNAV/VNAV: MAP at DA										
LNAV: MAP at RW28L										

TERPS STRAIGHT-IN LANDING RWY 28L							TERPS		CIRCLE-TO-LAND	
1 LPV		LPV		LNAV/VNAV		LNAV		Max Kts	MDA(H)	D
DA(H)	RAIL/ALS out	DA(H)	RAIL/ALS out	DA(H)	RAIL/ALS out	MDA(H)	RAIL/ALS out			
213' (200')		798' (785')		770' (757')		1020' (1007')		90	1020' (1007')	-1/4
								120	1020' (1007')	-1/2
								140	1560' (1547')	-3
								D		NA

1 Missed apch requires mim climb of 330'/NM to 1600'. 2 RVR 18 authorized with use of Flight Director or Autopilot or HUD to DA. 3 Not authorized to Rwy 10L, 10R, 19L, and 19R.

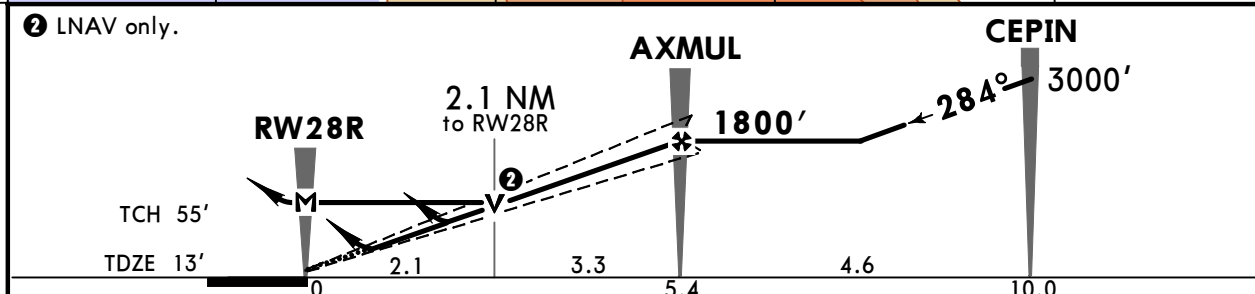
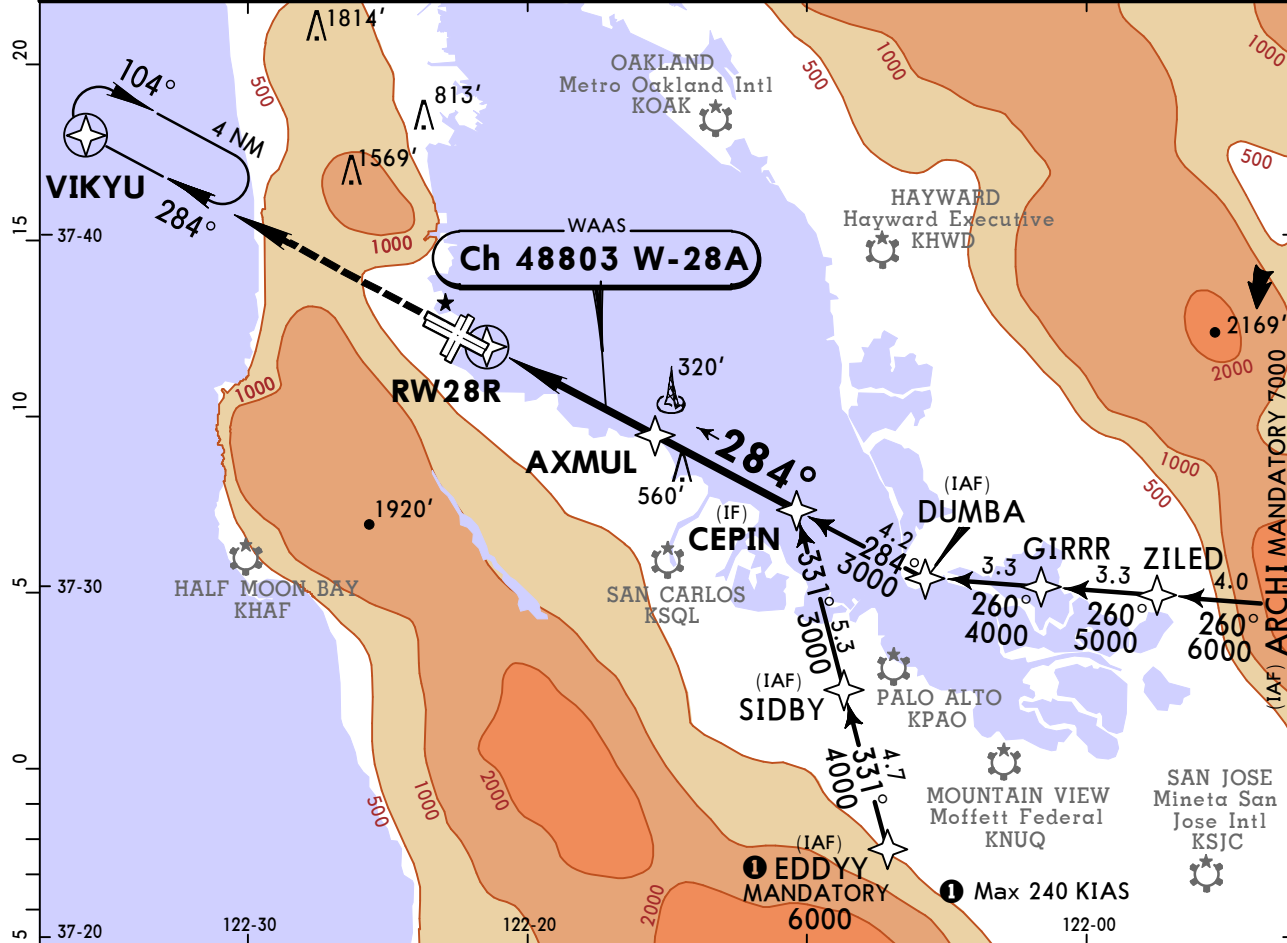
KSFO/SFO
SAN FRANCISCO INTL



SAN FRANCISCO, CALIF
RNAV (GPS) Z Rwy 28R

5 OCT 18 **12-6**

D-ATIS 113.7 115.8 118.85		NORCAL Approach (R) 134.5		SAN FRANCISCO Tower 120.5		Ground 121.8			
WAAS CH 48803 W-28A		Final Apch Crs 284°		Minimum Alt AXMUL 1800' (1787')		LPV DA(H) 213' (200')			
Apt Elev 13' TDZE 13'						5000			
MISSED APCH: Climb to 3200' direct VIKYU and hold, continue climb-in-hold to 3200'.									
RNP Apch		Alt Set: INCHES		Trans level: FL 180				Trans alt: 18000'	
1. Circling Rwy 1L, 1R not authorized at night. 2. For uncompensated Baro-VNAV systems, LNAV/VNAV not authorized below 3°C (38°F) or above 54°C (130°F). 3. VGSI and RNAV glidepath not coincident (VGSI angle 3.00°/TCH 68').								MSA RW28R	



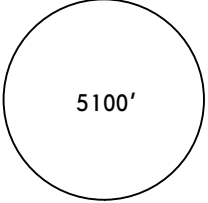
Gnd speed-Kts	70	90	100	120	140	160	ALSF-II PAPI	3200'	D → VIKYU
Glide Path Angle 3.00°	372	478	531	637	743	849			
LPV, LNAV/VNAV: MAP at DA									
LNAV: MAP at RW28R									

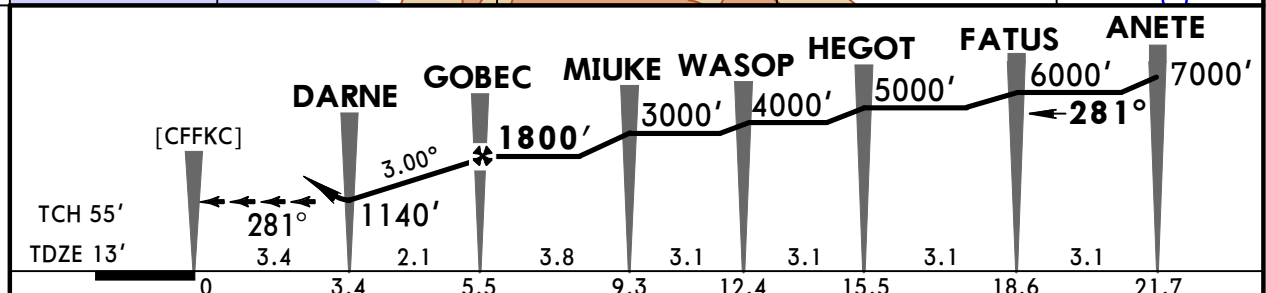
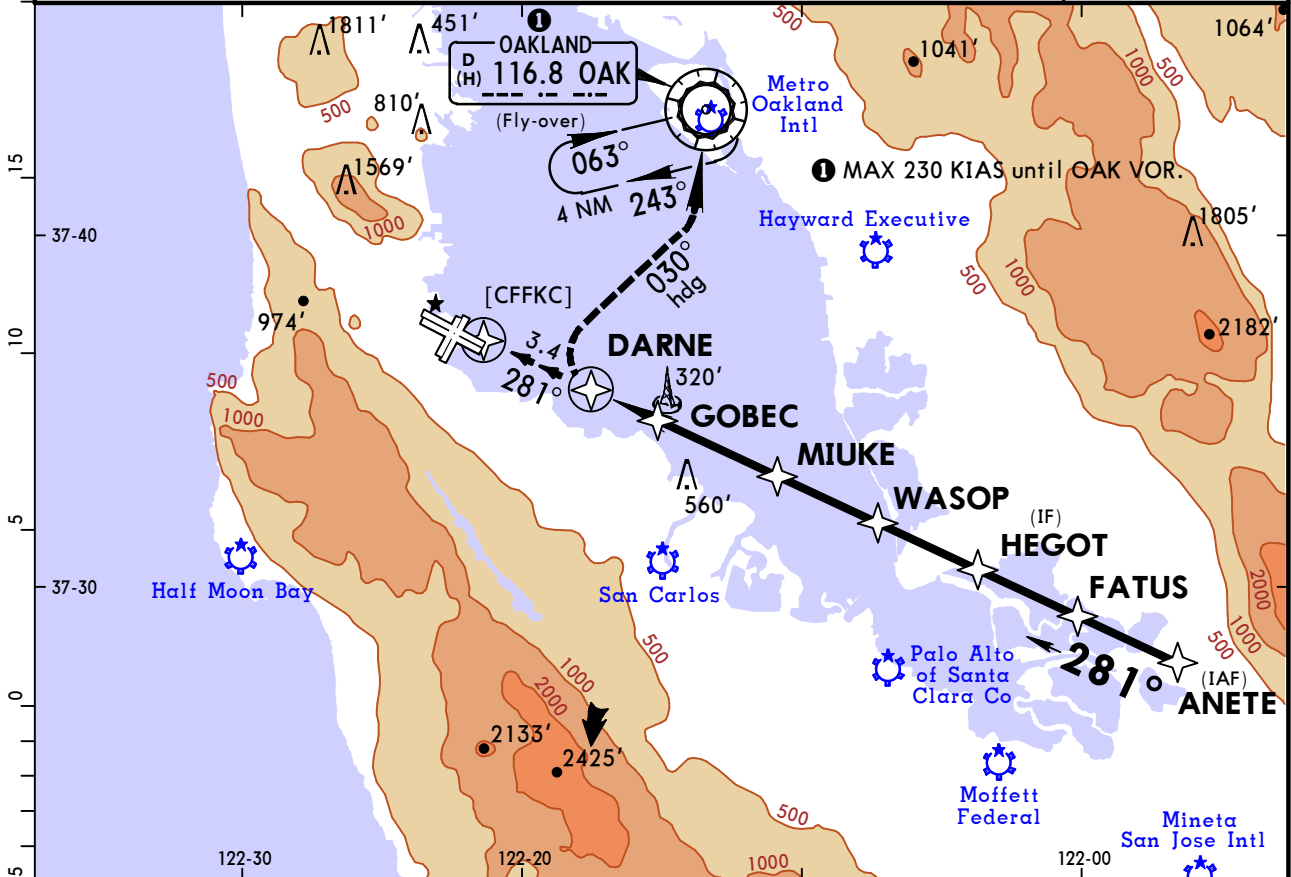
TERPS						STRAIGHT-IN LANDING RWY 28R			CIRCLE-TO-LAND		
LPV DA(H) 213' (200')		LNAV/VNAV DA(H) 642' (629')		LNAV MDA(H) 760' (747')		ALS out		Max Kts		MDA(H)	
TDZ/CL out		ALS out		ALS out		ALS out		90		760' (747') - 1	
RVR 18 or 1/2		RVR 24 or 1/2		RVR 40 or 3/4		1 3/8 1 3/4		120		960' (947') - 1 1/4	
						1 3/4 2		140		1560' (1547') - 3	
								D		NA	

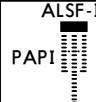

1 Not Authorized to Rwy 10L, 10R, 19L, and 19R.
CHANGES: Missed apch, ARCHI altitude & speed restriction, SIDBY IAF, notes. © JEPPESEN, 2001, 2018. ALL RIGHTS RESERVED.

TERPS AMEND 7 13 SEP 2018

KSFO/SFO **JEPPESEN** **SAN FRANCISCO, CALIF**
SAN FRANCISCO INTL 4 NOV 16 **12-7** **Eff 10 Nov** **RNAV (GPS) X Rwy 28R**

D-ATIS		NORCAL Approach (R)		SAN FRANCISCO Tower		Ground	
113.7	115.8	118.85	134.5		120.5		121.8
RNAV	Final Apch Crs 281°		Minimum Alt GOBEC 1800' (1787')		LNAV/VNAV DA(H) 1140' (1127')		Apt Elev 13' TDZE 13'
MISSED APCH: Climbing RIGHT turn to 3000' on heading 030° then direct OAK VOR and hold. When executing a missed approach or go around, unless otherwise instructed by ATC, initially turn right to 030° utilizing HEADING mode.							 5100' MSA DARNE
Alt Set: INCHES Trans level: FL 180 Trans alt: 18000' 1. Radar required. 2. For uncompensated Baro-VNAV systems, LNAV/VNAV not authorized below 2°C (36°F) or above 54°C (130°F). 3. DME/DME RNP-0.30 not authorized. 4. Final approach course offset 2.95°. 5. VGSI and RNAV glidepath not coincident. 6. Rwy 28L and 28R separated by 750' centerline to centerline. 7. Final approach course 1343' of rwy centerline extended 3000' from threshold.							



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II PAPI 	3000' on RT 030° hdg	 OAK 116.8
Descent angle	3.00°	372	478	531	637	849			
MAP at DA									

TERPS **1** STRAIGHT-IN LANDING RWY 28R
 LNAV/VNAV
 DA(H) 1140' (1127')
 ALS out

A	
B	4
C	
D	

1 If a go around is executed after passing DARNE, go around requires a minimum climb gradient of 380'/NM to 1800'.

TERPS AMEND 1B 13 OCT 2016

KSFO/SFO


JEPPESEN SAN FRANCISCO, CALIF
 23 MAR 18 (12-8) Eff 29 Mar SAN FRANCISCO INTL
ATTENTION ALL USERS OF RNAV PRECISION RUNWAY MONITOR (PRM)
RNAV (GPS) PRM RWY 28L: Straight-in Approach
 (SIMULTANEOUS CLOSE PARALLEL)

Pilots who are unable to participate will be afforded appropriate arrival services as operational conditions permit and must notify the controlling ATC facility as soon as practical, but at least 100 miles from destination.

Simultaneous PRM approaches will only be offered/conducted when the weather is at least 1600 feet (ceiling) and 4 miles (visibility).

General

Review procedure for executing a climbing and descending PRM breakout

Breakout Phraseology: "TRAFFIC ALERT (call sign) TURN (left/right)
IMMEDIATELY HEADING (degrees) CLIMB/DESCEND
AND MAINTAIN (altitude)."

All breakouts: Hand flown, initiate immediately.

Descending on the glideslope/glidepath ensures compliance with any charted crossing restrictions.

Dual VHF Comm.: When assigned or planning a specific PRM approach, tune a second receiver to the PRM monitor frequency or, if silent, another active frequency (i.e., ATIS), set the volume, retune the PRM frequency if necessary, then deselect the audio. When directed by ATC, switch to the appropriate approach control frequency and select the second receiver audio to ON.

Runway 28R: NORCAL approach 120.35

Runway 28L: NORCAL approach 135.65

If later assigned the same runway, non-PRM approach, consider it briefed provided the same minimums are utilized.

PRM related chart notes and PRM frequency no longer apply.

TCAS during breakout: Follow TCAS climb/descend if it differs from ATC, while executing the breakout turn.

Briefing Points: (Note: Identify NEPIC WP as 3.3 NM from Rwy 28L WP if not in the FMC approach coding.)

- Monitor descent path to ensure that fix crossing requirements are adhered to.
- VDA is 2.85° between all waypoints on the final approach course.
- Inside NEPIC, descending on (not above) the vertical path benefits the trailing 28R aircraft to avoid wake turbulence.
- Other aircraft may be conducting the PRM approach to runway 28R. These aircraft will approach from the right-rear and will re-align with runway 28R after making visual contact with the runway 28L traffic.
- Expect to be switched to SFO tower at NEPIC.
- PRM monitor frequency may be de-selected after determining that the aircraft is on the tower frequency.

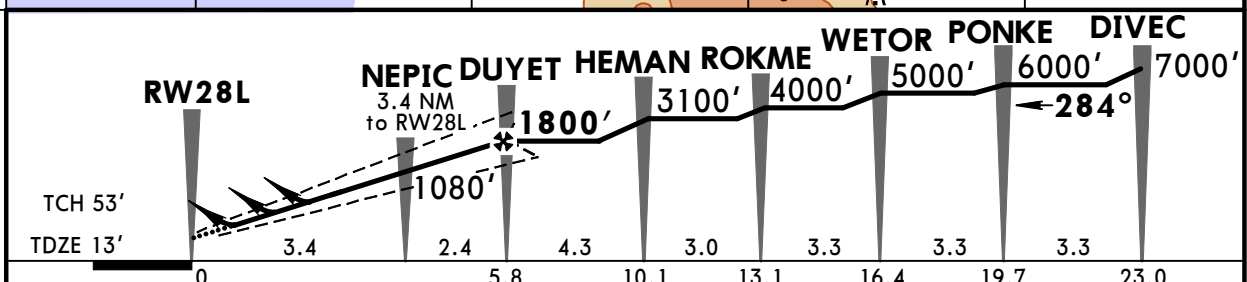
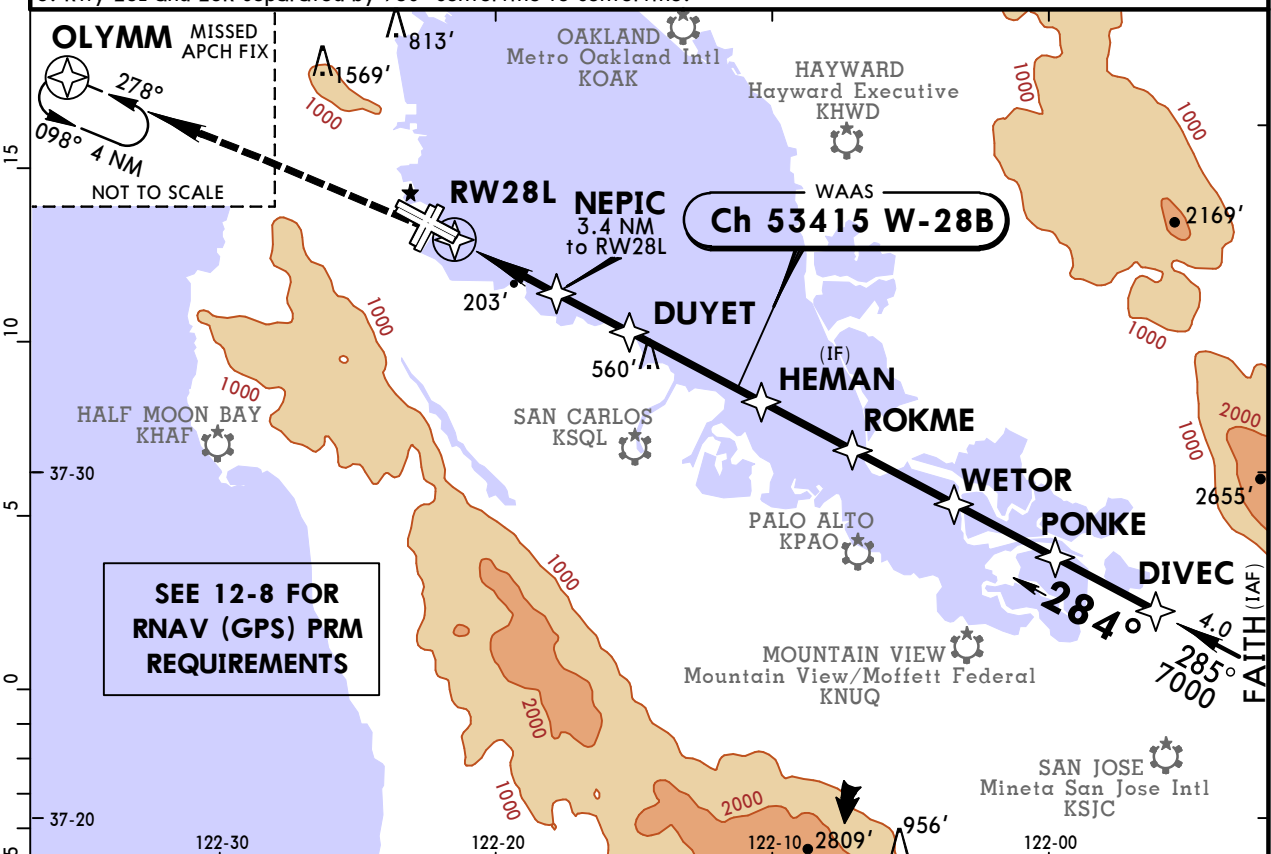
KSFO/SFO

JEPPESEN SAN FRANCISCO, CALIF
 23 MAR 18 Eff 29 Mar **12-8A** RNAV (GPS) PRM Rwy 28L
 (SIMULTANEOUS CLOSE PARALLEL)

SAN FRANCISCO INTL

BRIEFING STRIP™	D-ATIS	NORCAL Approach (R)	SAN FRANCISCO Tower	Ground
	113.7 115.8 118.85	134.5	120.5 Monitor Frequency 125.15	121.8
WAAS Ch 53415 W-28B	Final Apch Crs 284°	Minimum Alt DUYET 1800' (1787')	LPV DA(H) (CONDITIONAL) 213' (200')	Apt Elev 13' TDZE 13'
MISSED APCH: Climb to 4000' direct OLYMM and hold, continue climb-in-hold to 4000'.				

Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'
1. Dual VHF communication required. 2. For uncompensated Baro-VNAV systems, LNAV/VNAV not authorized below 3°C (38°F) or above 54°C (130°F). 3. DME/DME RNP-0.30 not authorized. 4. VGSI and RNAV glidepath not coincident (VGSI angle 2.85°/TCH 67'). 5. Simultaneous approach authorized with LDA PRM Rwy 28R and RNAV (GPS) PRM X Rwy 28R. 6. See 12-8 for "Attention All Users of RNAV Precision Runway Monitor (PRM)". 7. Use of Flight Director or Autopilot during simultaneous operations. 8. Rwy 28L and 28R separated by 750' centerline to centerline.



Gnd speed-Kts	70	90	100	120	140	160	MALSR PAPI	4000'	D	OLYMM
Glide Path Angle	2.85°	353	454	504	605	807				
MAP at DA										

TERPS	STRAIGHT-IN LANDING RWY 28L					
	LPV		LNAV/VNAV			
	1 DA(H) 213' (200')		DA(H) 769' (756')		DA(H) 754' (741')	
	RAIL/ALS out		RAIL/ALS out		RAIL/ALS out	
A	2					
B	RVR 24 or 1/2		RVR 40 or 3/4		RVR 1 3/4	
C			1 3/4		2	
D			2		2	

1 Missed approach requires minimum climb of 300'/NM to 1500'.
 2 RVR 18 authorized with use of Flight Director or Autopilot or HUD to DA.

TERPS AMEND 2 29 MAR 2018

KSFO/SFO

1 DEC 17

JEPPESEN

12-9

Eff 7 Dec

SAN FRANCISCO, CALIF

SAN FRANCISCO INTL

ATTENTION ALL USERS OF RNAV PRECISION RUNWAY MONITOR (PRM)**RNAV (GPS) PRM X RWY 28R: Offset Approach
(SIMULTANEOUS CLOSE PARALLEL)**

Pilots who are unable to participate will be afforded appropriate arrival services as operational conditions permit and must notify the controlling ATC facility as soon as practical, but at least 100 miles from destination.

Simultaneous PRM approaches will only be offered/conducted when the weather is at least 1600 feet (ceiling) and 4 miles (visibility).

General

Review procedure for executing a climbing and descending PRM breakout

Breakout Phraseology: "TRAFFIC ALERT (call sign) TURN (left/right)
IMMEDIATELY HEADING (degrees) CLIMB/DESCEND
AND MAINTAIN (altitude)."

All breakouts: Hand flown, initiate immediately.

Descending on the glideslope/glidepath ensures compliance with any charted crossing restrictions.

Dual VHF Comm.: When assigned or planning a specific PRM approach, tune a second receiver to the PRM monitor frequency or, if silent, another active frequency (i.e., ATIS), set the volume, retune the PRM frequency if necessary, then deselect the audio. When directed by ATC, switch to the appropriate approach control frequency and select the second receiver audio to ON.

Runway 28R: NORCAL approach 120.35

Runway 28L: NORCAL approach 135.65

If later assigned the same runway, non-PRM approach, consider it briefed provided the same minimums are utilized.

PRM related chart notes and PRM frequency no longer apply.

TCAS during breakout: Follow TCAS climb/descend if it differs from ATC, while executing the breakout turn.

Briefing Points: (Notes: Non-standard RNAV Missed Approach coding initially requires use of heading mode. Identify DARNE WP as 3.4 NM from CFFKC WP if not in the FMC approach coding.)

- If required, develop a wake mitigation strategy as soon as practical. Inside DARNE WP, pilots will be operating visually in close proximity to the 28L aircraft and will be responsible for wake turbulence and collision avoidance.
- VDA is 3° between all waypoints on the final approach course.
- Continuing past DARNE requires reporting the 28L traffic in sight (ATC need not respond), and seeing the runway.
- Remain on the RNAV track until passing DARNE WP so as not to penetrate the NTZ.
- Expect to be switched to SFO tower at DARNE WP.
- After passing DARNE, DO NOT PASS.
- The VNAV path is valid to the runway threshold.
- PRM monitor frequency may be de-selected after determining that the aircraft is on the tower frequency.
- If executing a missed approach or go-around, initially establish a climbing right turn heading 030°.

CAUTION: Missed approach leg from airport to OAK VOR, if depicted on a map display, is for reference only.

Follow IAP published missed approach procedure unless otherwise instructed by ATC.

KSFO/SFO
SAN FRANCISCO INTL

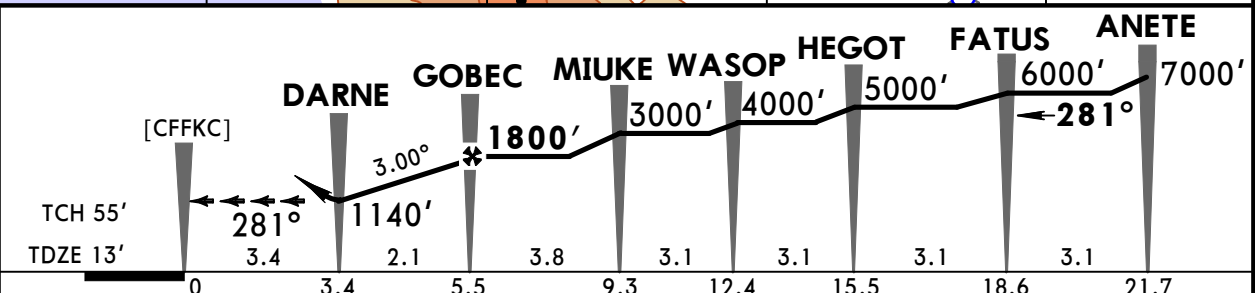
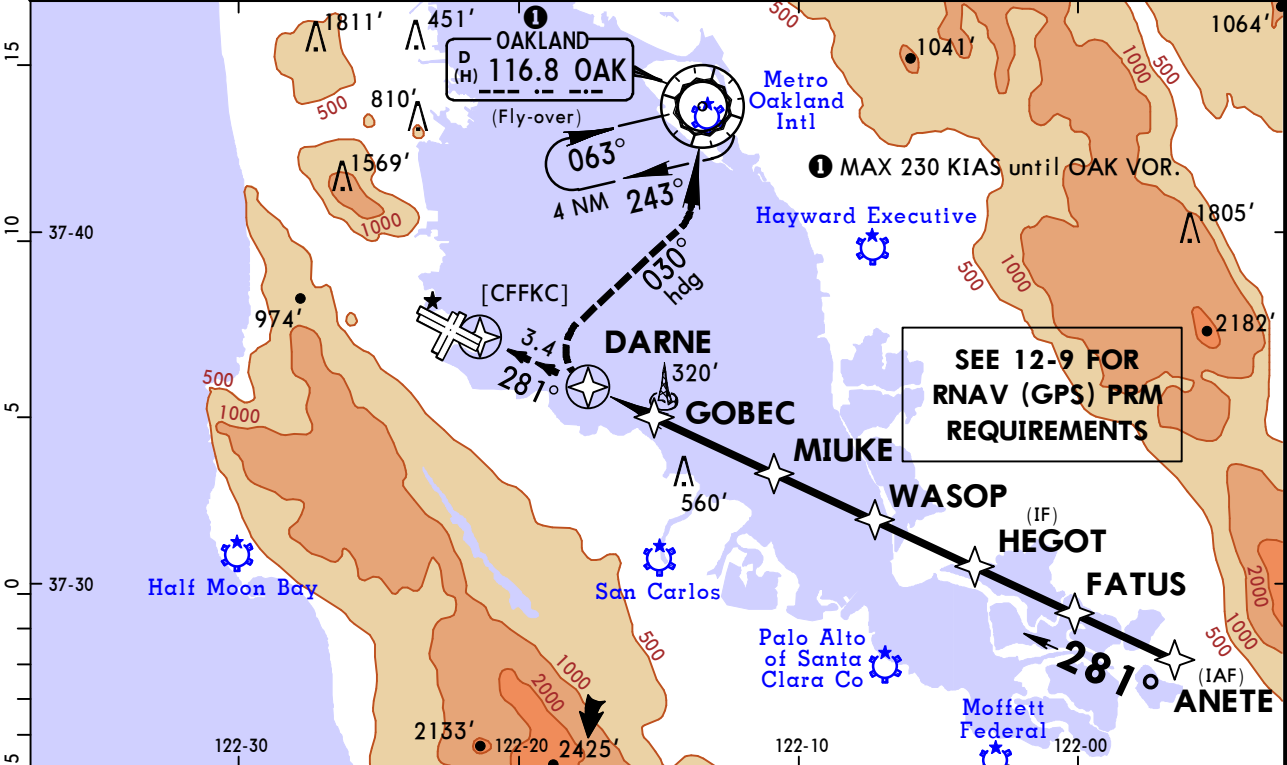
JEPPESEN
1 DEC 17
Eff 7 Dec **(12-9A)** RNAV (GPS) PRM X Rwy 28R
(SIMULTANEOUS CLOSE PARALLEL)

SAN FRANCISCO, CALIF

BRIEFING STRIP™	D-ATIS 113.7 115.8 118.85		NORCAL Approach (R) 134.5	SAN FRANCISCO Tower 120.5 Monitor Frequency 127.675		Ground 121.8
	RNAV	Final Apch Crs 281°	Minimum Alt GOBEC 1800' (1787')	LNAV/VNAV DA(H) 1140' (1127')	Apt Elev 13' TDZE 13'	5100' MSA DARNE
MISSED APCH: Climbing RIGHT turn to 3000' on heading 030° then direct OAK VOR and hold. When executing a missed approach or go around, unless otherwise instructed by ATC, initially turn right to 030° utilizing HEADING mode.						

Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'

1. Radar required. 2. Dual VHF communication required. 3. For uncompensated Baro-VNAV systems, LNAV/VNAV not authorized below 2°C (36°F) or above 54°C (130°F). 4. DME/DME RNP-0.30 not authorized. 5. VGSI and RNAV glidepath not coincident. 6. Simultaneous approach authorized with ILS PRM Rwy 28L and RNAV (GPS) PRM Rwy 28L. 7. See 12-9 for "Attention All Users of RNAV Precision Runway Monitor (PRM)". 8. Use of Flight Director or Autopilot providing RNAV track guidance required during simultaneous operations. 9. Rwy 28L and 28R separated by 750' centerline to centerline. 10. Final approach course offset 2.95°. 11. Final approach course 1343' right of rwy centerline extended 3000' from threshold.



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II PAPI	3000' RT on hdg	030° hdg	D →	OAK 116.8
Descent angle	3.00°	372	478	531	637	743					
MAP at DA											

TERPS **1** STRAIGHT-IN LANDING RWY 28R
LNAV/VNAV
DA(H) 1140' (1127')

A	
B	
C	4
D	

1 If a go around is executed after passing DARNE, go around requires a minimum climb gradient of 380'/NM to 1800'.

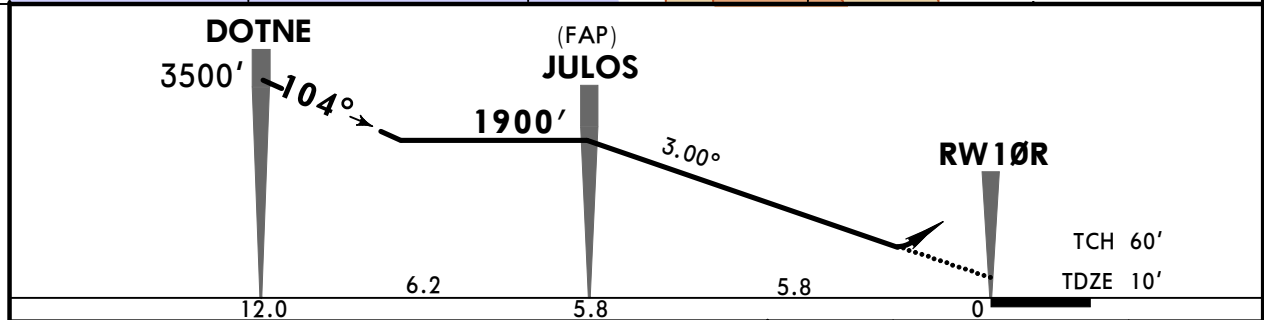
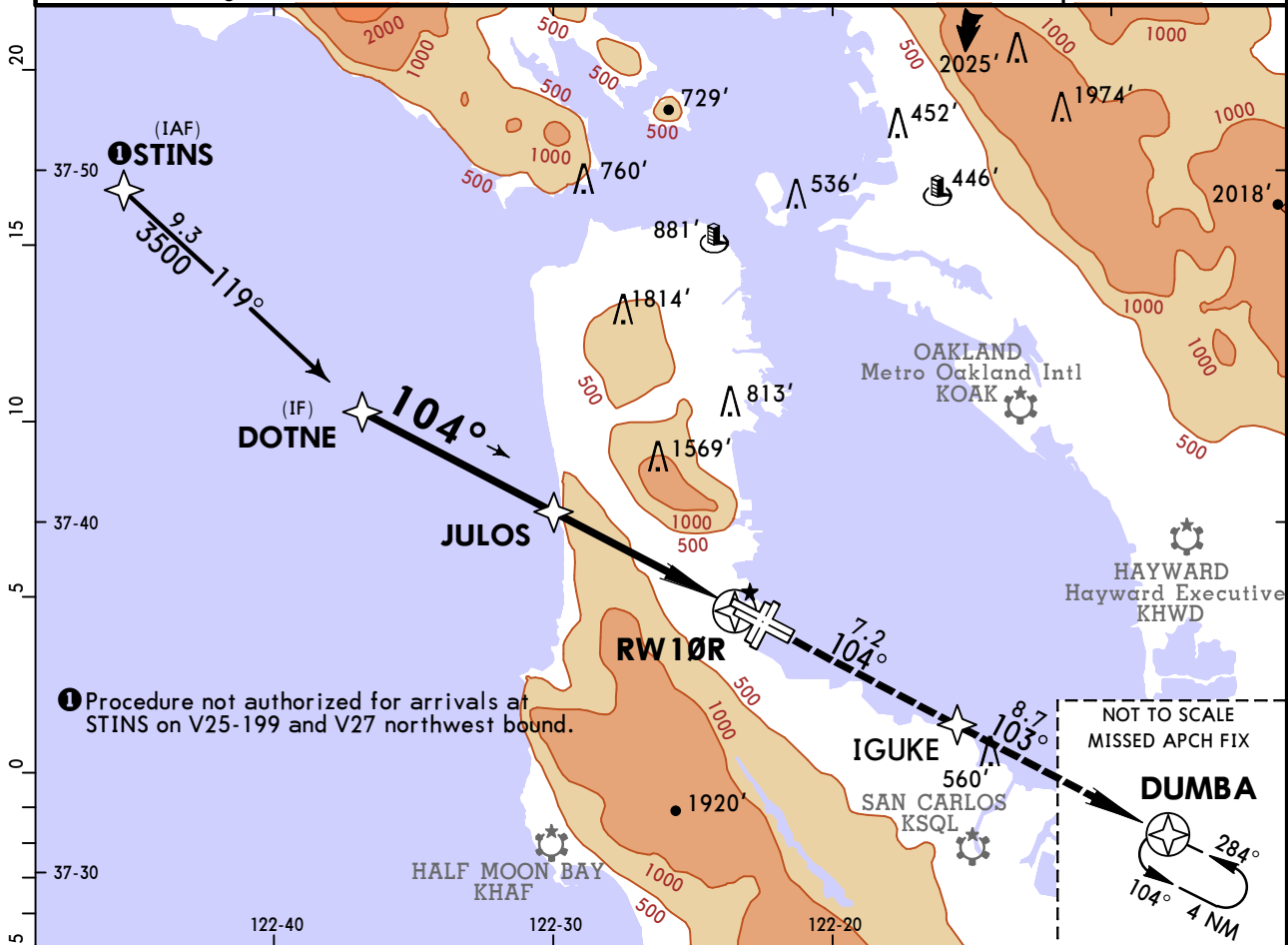
TERPS AMEND 1B 13 OCT 2016

KSFO/SFO
SAN FRANCISCO INTL

JEPPesen
5 OCT 18 **(12-20)**

SAN FRANCISCO, CALIF
RNAV (RNP) Z Rwy 10R

D-ATIS		NORCAL Approach (R)		SAN FRANCISCO Tower		Ground	
113.7	115.8	118.85	134.5	120.5	121.8		
RNAV	Final Apch Crs 104°	Minimum Alt JULOS 1900' (1890')	RNP 0.20 DA(H) 396' (386')	Apt Elev 13'	TDZE 10'	5100 MSA RW10R	
MISSED APCH: Climb to 3600' on track 104° to IGUKE and on track 103° to DUMBA and hold.							
Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'							
<p>1. AUTHORIZATION REQUIRED. 2. GPS required. 3. For uncompensated Baro-VNAV systems, procedure not authorized below 2°C (36°F) or above 54°C (130°F). 4. VGSI and RNAV glidepath not coincident. 5. When VGSI inop, procedure not authorized at night.</p>							



Gnd speed-Kts	70	90	100	120	140	160	PAPI-L	3600'	on 104°	IGUKE	
Descent Angle	3.00°	372	478	531	637	743					849
MAP at DA											

TERPS		STRAIGHT-IN LANDING RWY 10R	
RNP 0.20 DA(H) 396' (386')		RNP 0.30 DA(H) 1108' (1098')	
A			
B			
C	1/4		4
D			

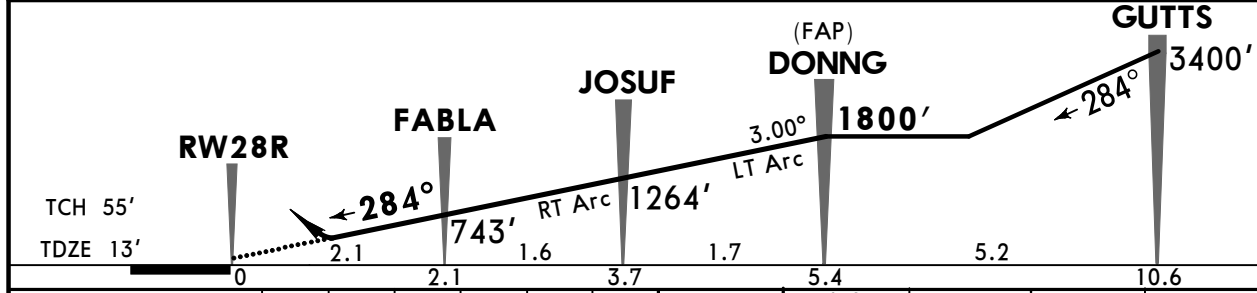
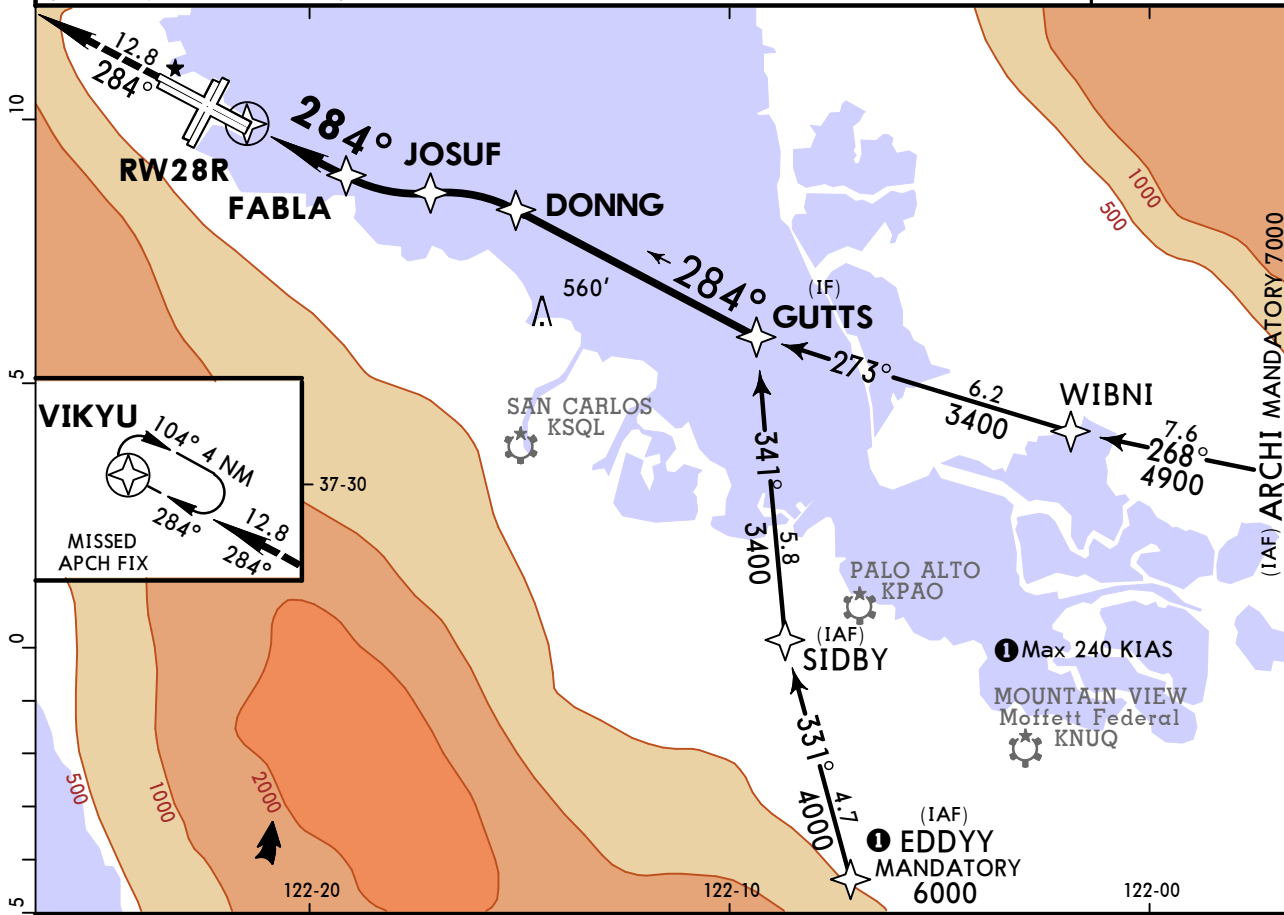
TERPS AMEND 2A 26 JUN 2014

KSFO/SFO
SAN FRANCISCO INTL

JEPPESEN
5 OCT 18 (12-21)

SAN FRANCISCO, CALIF
RNAV (RNP) Y Rwy 28R

D-ATIS 113.7 115.8 118.85		NORCAL Approach (R) 134.5		SAN FRANCISCO Tower 120.5		Ground 121.8	
RNAV	Final Apch Crs 284°	Minimum Alt DONNG 1800' (1787')	RNP 0.11 DA(H) (CONDITIONAL) 263' (250')		Apt Elev 13' TDZE 13'		5000 MSA RW28R
MISSED APCH: Climb to 3000' on track 284° to VIKYU and hold.							
Alt Set: INCHES		Trans level: FL 180		Trans alt: 18000'			
RNP AR Apch. RF Required.							
1. AUTHORIZATION REQUIRED. 2. For uncompensated Baro-VNAV systems, procedure not authorized below 3°C or above 54°C. 3. VGSI and RNAV glidepath not coincident (VGSI angle 3.00°/TCH 68').							



Gnd speed-Kts	70	90	100	120	140	160	ALSIF-II PAPI	3000' ↑ on 284°	VIKYU
Glide Path Angle 3.00°	372	478	531	637	743	849			
MAP at DA									

TERPS STRAIGHT-IN LANDING RWY 28R

1 RNP 0.11 DA(H) 263' (250')		2 RNP 0.30 DA(H) 326' (313')	
ALS out		ALS out	
A	RVR 24 or 1/2	RVR 40 or 3/4	RVR 24 or 1/2
B			
C			
D			

1 Missed approach requires minimum climb of 250'/NM to 1600'.
2 Missed approach requires minimum climb of 350'/NM to 2100'.

TERPS AMEND 5 13 SEP 2018

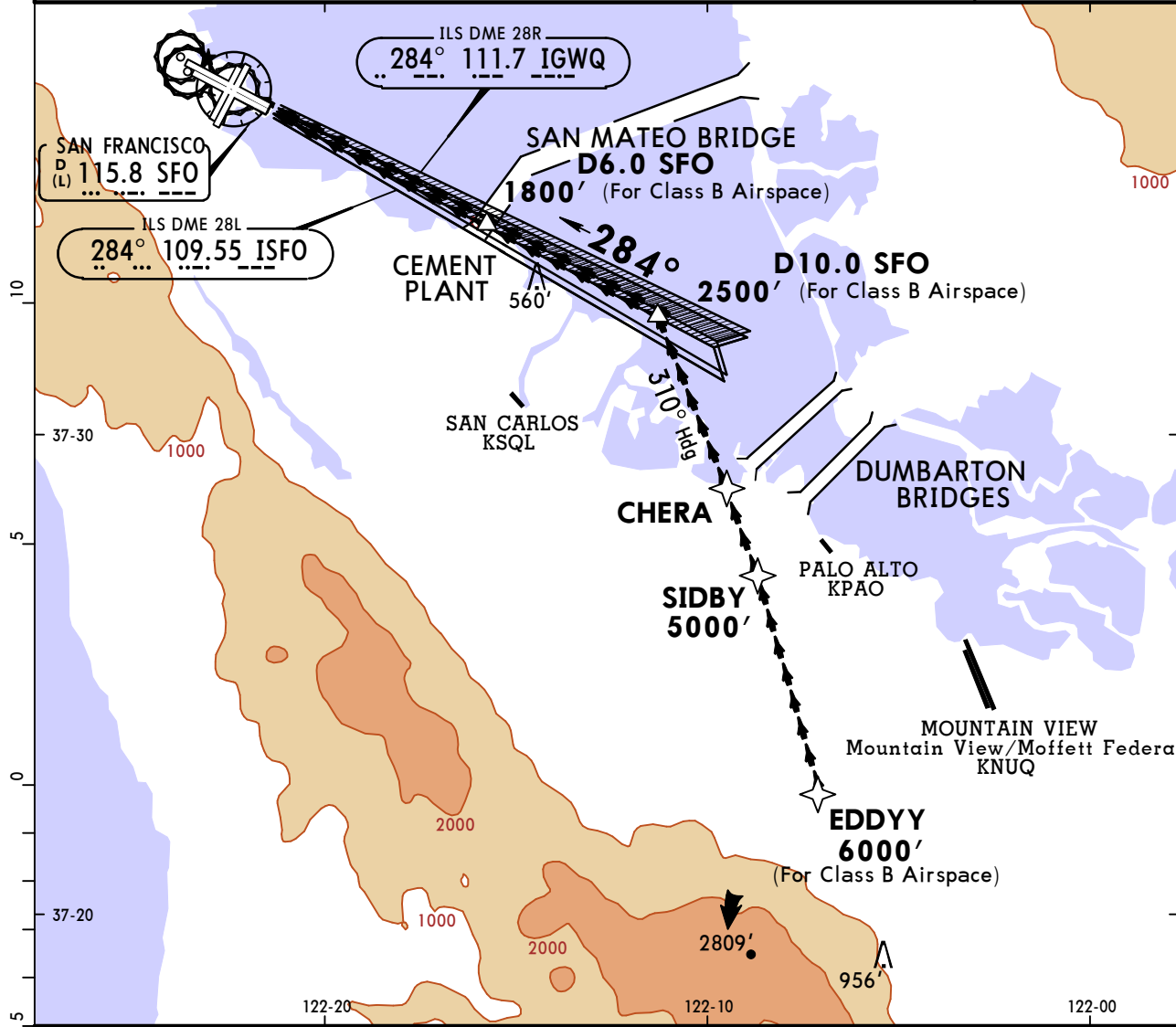
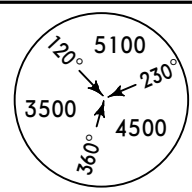
KSFO/SFO
SAN FRANCISCO INTL

JEPPESEN
2 NOV 18
Eff 8 Nov

SAN FRANCISCO, CALIF
TIPP TOE VISUAL Rwy 28L/R

(19-1)

BRIEFING STRIP™	D-ATIS	NORCAL Approach (R)	SAN FRANCISCO Tower	Ground
	113.7 115.8 118.85	134.5	120.5	121.8
	NAVAIDS- Refer to Planview	Final Apch Crs Rwy 28L/R 284°	No FAF	Refer to Minimums
MISSED APCH: See below.				
Alt Set: INCHES		Trans level: FL 180		Trans alt: 18000'
1. Radar required. 2. Closely spaced parallel visual approaches may be in progress. 3. Vertical Guidance Navaid and Angle: LOC ISFO (GS 2.85°).				



TIPP TOE VISUAL APPROACH RWY 28L/R

From **CHERA**, fly heading **310°** to intercept **ISFO** localizer.

In the event of a go-around:
 Runway 28L, turn **LEFT** heading **265°**, climb and maintain **3000'** or as directed by Air Traffic Control.
 Runway 28R, fly heading **280°**, climb and maintain **3000'** or as directed by Air Traffic Control.

WEATHER MINIMUMS

SFO Ceiling **2500'** - VIS **5**
 -OR-

SFO Ceiling **1000'** - VIS **3** With VIS **5** in Eastern Quadrant (030° Clockwise 120°) and San Mateo AWOS Ceiling **2400'** - VIS **5**

[If San Mateo AWOS inop, use San Carlos (KSQL) Ceiling of **2400'**-VIS **5**; San Carlos ATIS on 125.9]

TERPS AMEND 2 29 MAR 2018

KSFO/SFO

JEPPESEN

SAN FRANCISCO, CALIF

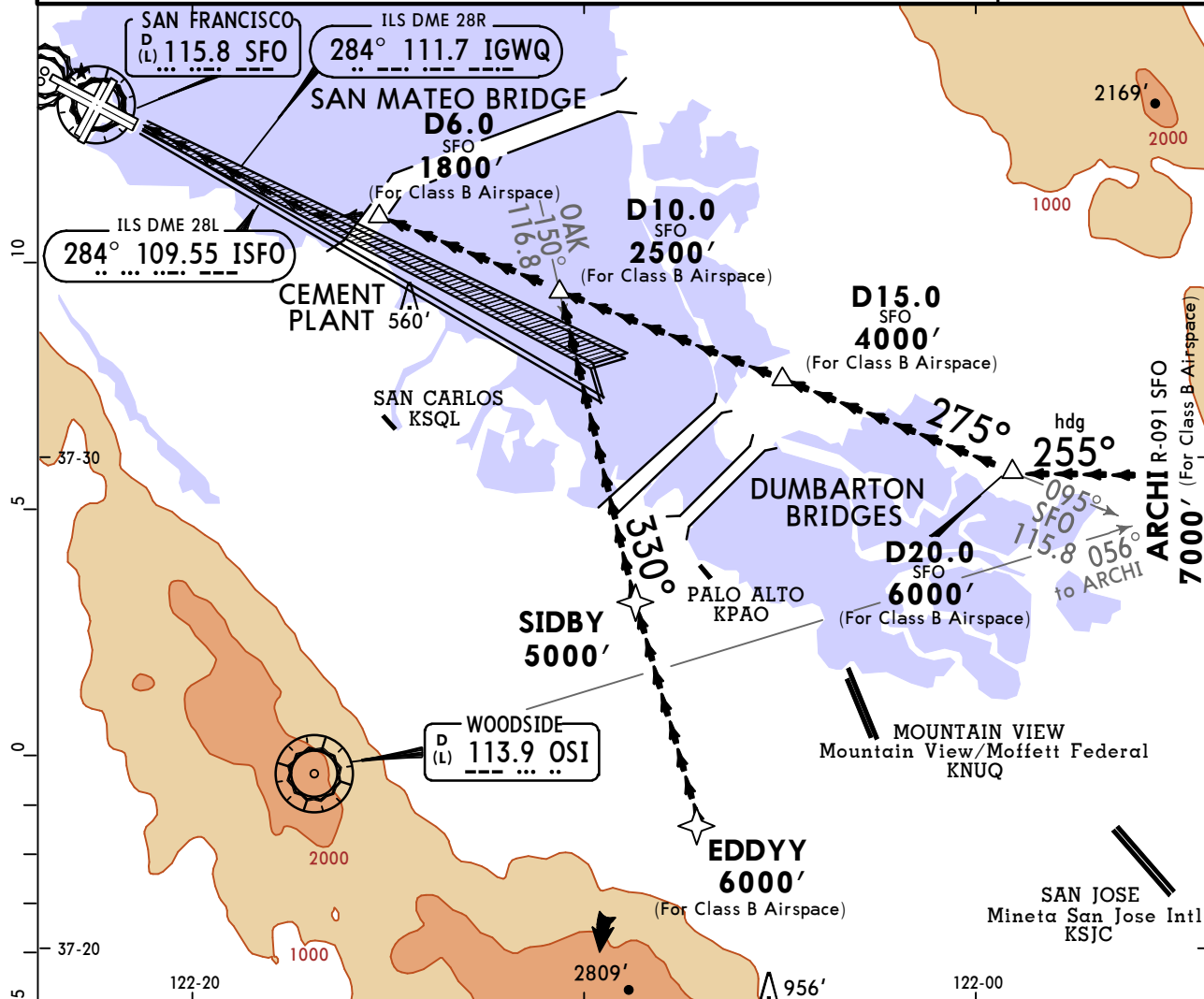
SAN FRANCISCO INTL

2 NOV 18
Eff 8 Nov

19-2

QUIET BRIDGE VISUAL RWYS 28L/R

D-ATIS 113.7 115.8 118.85			NORCAL Approach (R) 134.5		SAN FRANCISCO Tower 120.5		Ground 121.8	
NAVAIDS- Refer to Planview		Final Apch Crs Rwy 28L/R 284°		No FAF		Refer to Minimums		Apt Elev 13'
MISSED APCH: See below.								
Alt Set: INCHES			Trans level: FL 180			Trans alt: 18000'		
1. Radar required. 2. Closely spaced parallel visual approaches may be in progress to Rwy 28L utilizing ISFO. 3. Visual guidance and naviad angle: LOC IGWQ (GS 3.00°).								MSA SFO VOR



QUIET BRIDGE VISUAL APPROACH RWYS 28L/R

From the South: After SIDBY, fly 330° hdg to intercept SFO R-095 inbound.
From the East: After ARCHI, fly 255° hdg to intercept SFO R-095 inbound.

In the event of a go-around:
Runway 28L, turn LEFT heading 265°, climb and maintain 3000' or as directed by Air Traffic Control.
Runway 28R, fly heading 280°, climb and maintain 3000' or as directed by Air Traffic Control.

WEATHER MINIMUMS

SFO Ceiling **2500'** - VIS **5**
-OR-

SFO Ceiling 1000' - VIS 3 With VIS 5 in Eastern Quadrant (030° clockwise 120°)
and San Mateo AWOS Ceiling 2400' - VIS 5

[If San Mateo AWOS inop, use San Carlos (KSQL) Ceiling of 2400'-VIS 5; San Carlos ATIS on 125.9]

TERPS AMEND 12 8 NOV 2018

Chart changes since cycle 06-2019

ADD = added chart, REV = revised chart, DEL = deleted chart.

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
SAN FRANCISCO, CA (SAN FRANCISCO INTL - KSFO)				
REV	PARKING GATES	10-9B	05 Apr 2019	
REV	PARKING GATES (CONTD) & C...	10-9C	05 Apr 2019	

TERMINAL CHART CHANGE NOTICES

Chart Change Notices for Airport KSFO

Type: Terminal

Effectivity: Temporary

Begin Date: Immediately

End Date: Until Further Notice

(10-9D) Low Visibility Taxi Routes - Surface Movement Guidance and Control System operations suspended until further notice. Contact the San Francisco Airport Commission for details.

Chart Change Notices for Country USA

Type: Gen Tmnl

Effectivity: Temporary

Begin Date: Immediately

End Date: Until Further Notice

ILS Procedures RVR 1800 Statute Mile Equivalent-U.S. FAA Airports On a number of ILS approach procedures at U.S. FAA airports, the published landing visibility value of RVR 1800 depicts a Statute Mile equivalent value of 3/8 Statute Mile. According to FAA FAR and AIM publications, the Statute Mile equivalent for RVR 1800 should be 1/2 Statute Mile Beginning with the revision dated 20 May 2016 affected U.S. ILS approach charts will be updated to depict the appropriate Statute Mile equivalent visibility of 1/2 Statute Mile.

Type: Gen Tmnl

Effectivity: Temporary

Begin Date: Immediately

End Date: Until Further Notice

MALSR & SSALR RAIL out Lighting Condition - U.S. FAA Locations The FAA has confirmed that for MALSR and SSALR approach light systems, the RAIL out, or partial system condition, is not applicable when determining landing visibilities When any component of a MALSR or SSALR approach light system is inoperative, such as RAIL out, the landing visibilities should be determined as if the entire lighting system were inoperative (ALS out). Therefore, the RAIL out visibility column should be disregarded.