Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 11/15/2010	Task #: 2010110822360302001	Request #: 20101108223603
Procedure: RNAV (GPS) RWY 29 R ORIG		Airport ID: KTOA	Airport: ZAMPERINI FIELD		Reimbursable #:
City: TORRANCE	ST: CA	GPS #:		Estimated Chart Date: 09/22/2011	FICO #:
Fac ID:	Fac. Type: LPV		Specialist: NEIL SIMPANEN		

LPV

Procedure Review

P3

	Rec'd	Rel'd	Full Name	Comments
Lead:	03/01/2011	06/29/2011	PETER GETZ	
QA:	06/29/2011	06/29/2011	SCOTT BEARD	
Liaison:	06/29/2011		Terrell	APPROVAL REQUEST

Procedure Comments: ENROUTE **Remark Type:** INFORMATION

pkg 1 of 3

TORRANCE, CA ZAMPERINI FIELD (KTOA) RNAV (GPS) RWY 29R, ORIG (LPV) ENROUTE-YES FC: 7.26.11 PUB: 9.22.11

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): DRIFY-INT, REV 5; INISH-INT, REV 6; ZANAN, ORIG; ZILBA, ORIG; ALBAS-INT, REV 13; SEAL BEACH (SLI) VTAC, REV 13.

CONTACT: ADOLFO URRUTIA/PETE GETZ-AVN-130 LEADS, 405.954.2079/4919:

pdf edited

WAAS CH 56425 W29A	APP CRS 294°	Rwy ldg 4461 THRE 97 Apt Elev 103

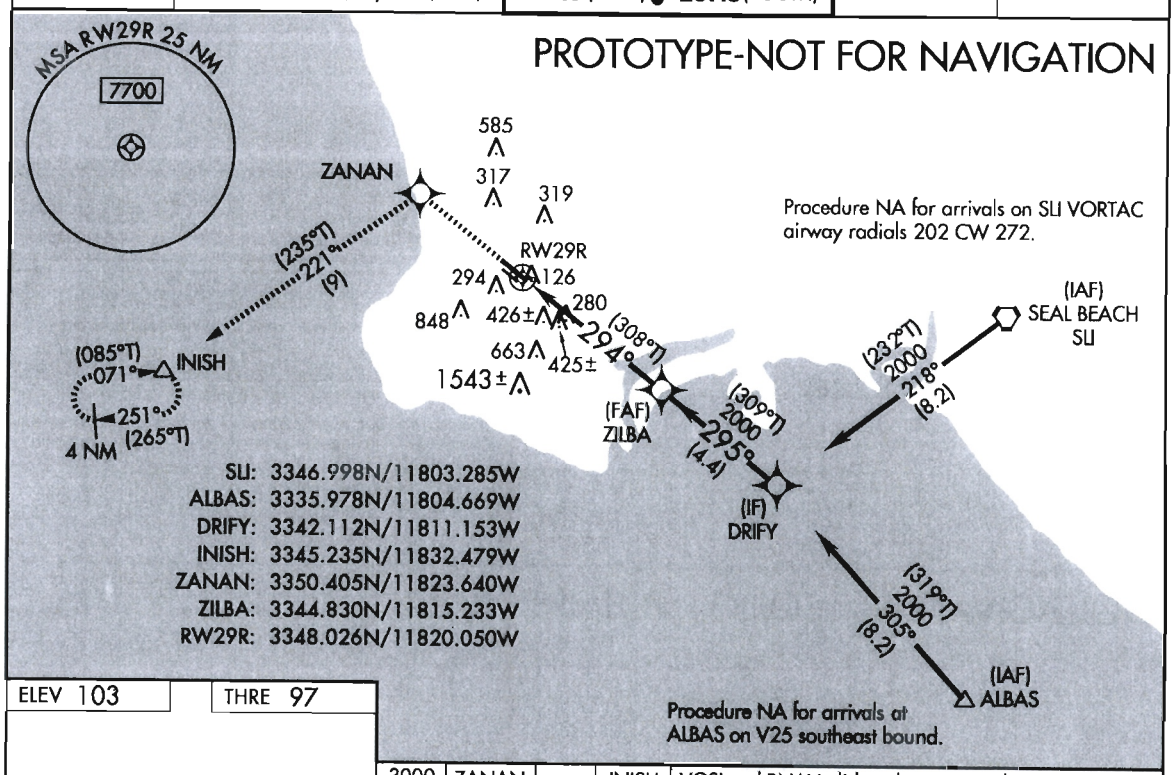
RNAV (GPS) RWY 29R
TORRANCE/ ZAMPERINI FIELD (TOA)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). When local altimeter setting not received, except for operators with approved weather reporting service, use Los Angeles Intl altimeter setting and increase all DA 24 feet and all MDA 40 feet. For inoperative MALSR, increase LNAV/VNAV visibility to 2. Circling NA southwest of Rwy 11R-29L. DME/DME RNP-0.3 NA. For inoperative MALSR when using Los Angeles Intl altimeter setting, increase LNAV/VNAV visibility all Cats to 2 ¼. Baro-VNAV and VDP NA when using Los Angeles Intl altimeter setting.

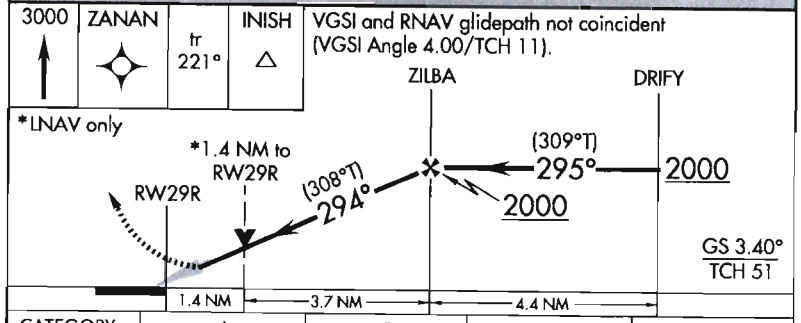
MALSR

MISSED APPROACH: Climb to 3000 direct ZANAN and on track 221° to INISH and hold, continue climb-in-hold to 3000.

ATIS	SOCAL APP CON	TORRANCE TOWER*	GND CON	UNICOM
125.6	124.3 363.2 (Rwys 11L, 11R) 127.2 269.6 (Rwys 29L, 29R)	135.6 257.8 (NORTH) 124.0 (CTAF) 257.8 (SOUTH)	120.9	122.95



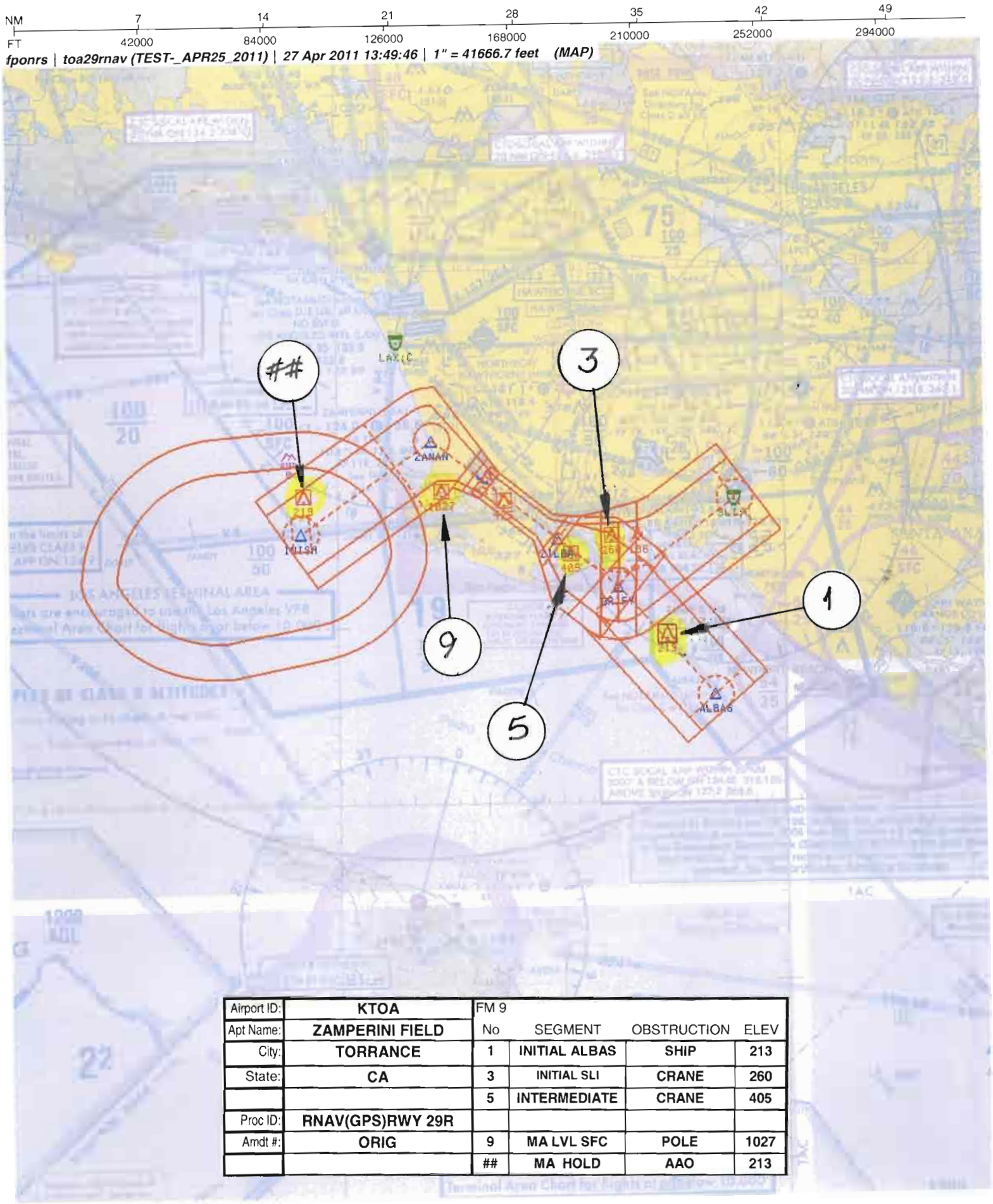
ELEV 103 THRE 97



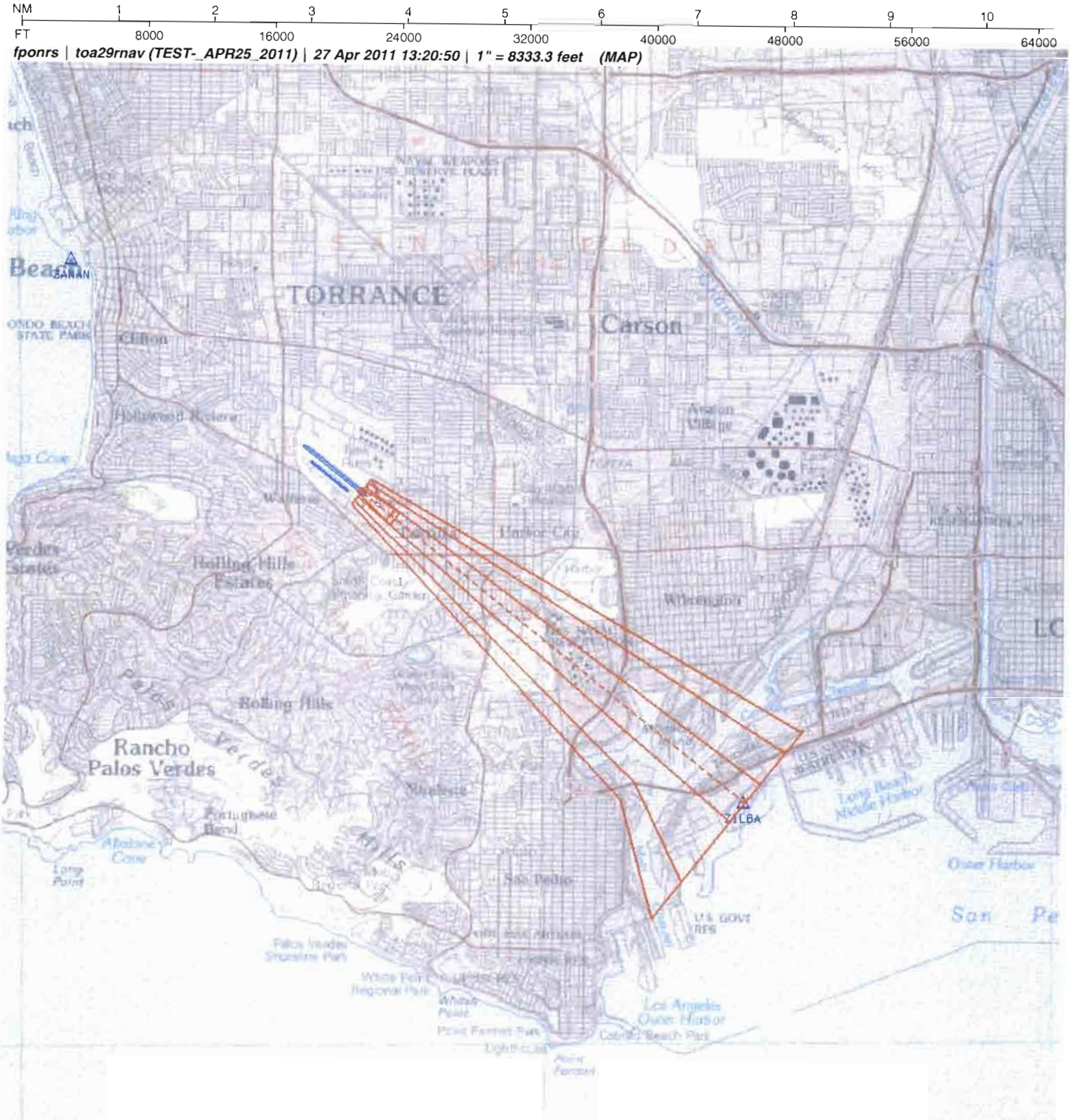
294° to RW29R

CATEGORY	A	B	C	D
LPV DA	297-½ 200 (200-½)		NA	
LNAV/VNAV DA	767-1⅝ 670 (700-1⅝)		NA	
LNAV MDA	680-½ 583 (600-½)		NA	
CIRCLING	680-1 577 (600-1)		NA	

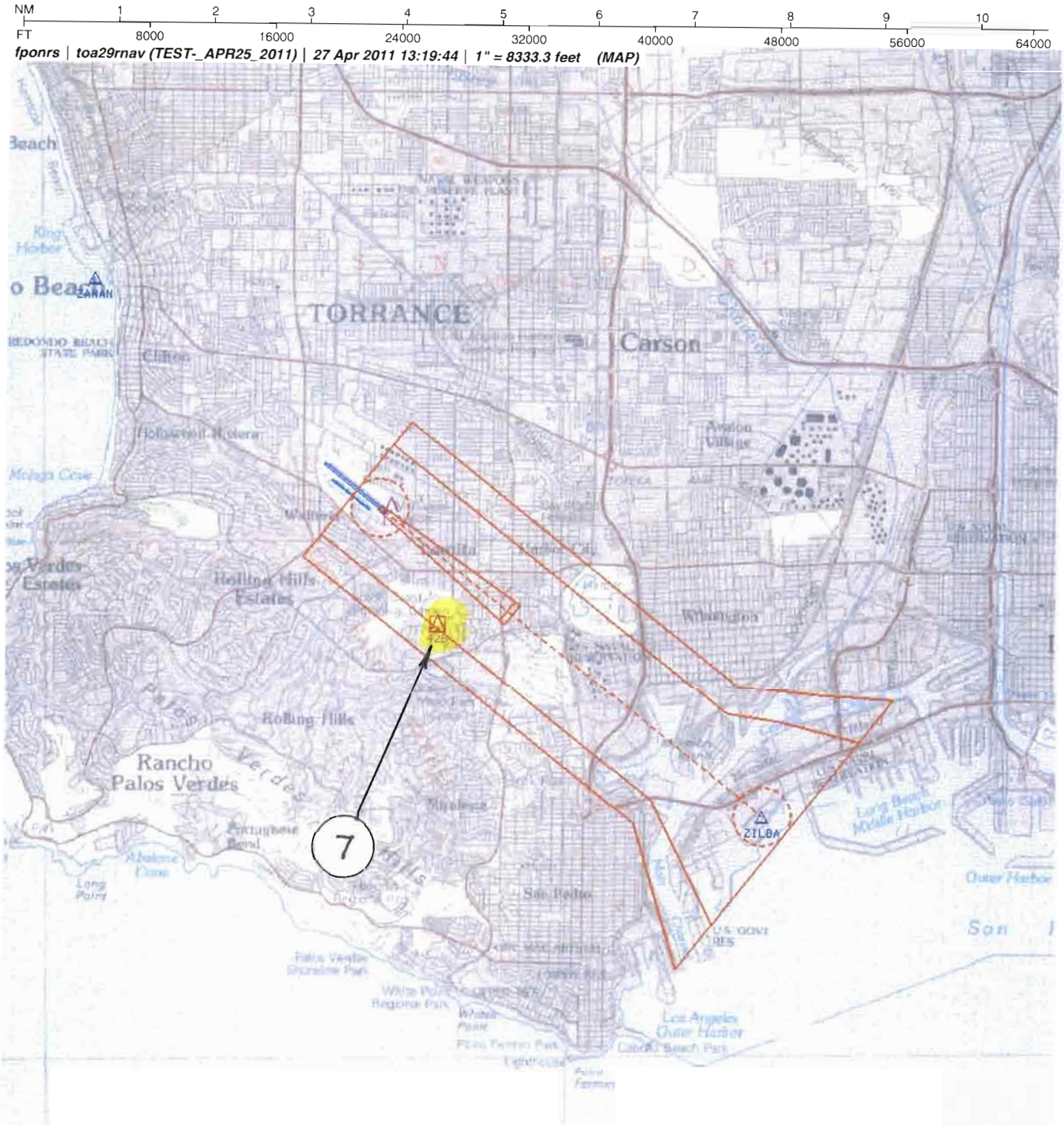
REIL Rwy 29L
MIRL Rwys 11L-29R and 11R-29L



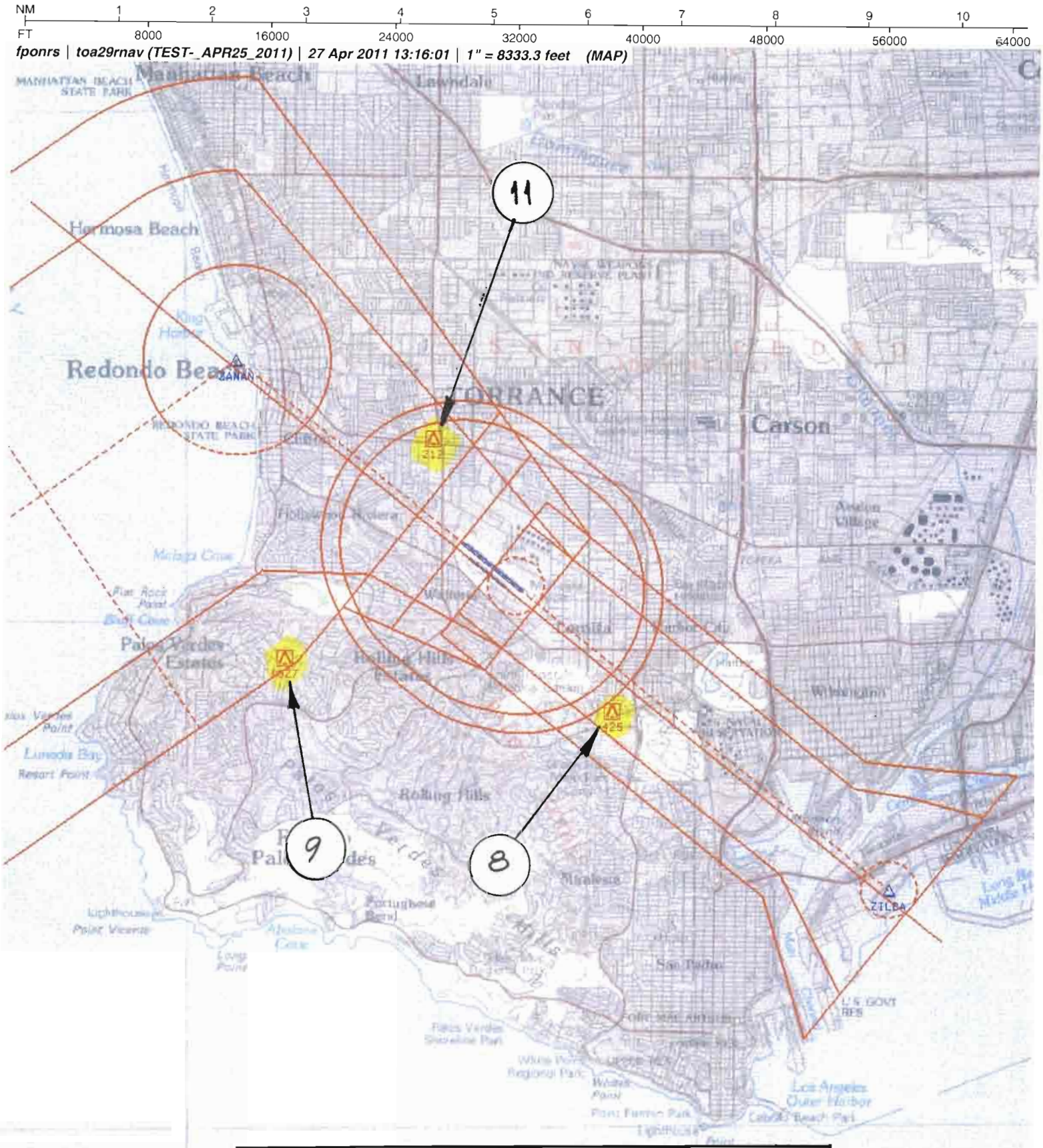
Airport ID:	KTOA	FM 9			
Apt Name:	ZAMPERINI FIELD	No	SEGMENT	OBSTRUCTION	ELEV
City:	TORRANCE	1	INITIAL ALBAS	SHIP	213
State:	CA	3	INITIAL SLI	CRANE	260
		5	INTERMEDIATE	CRANE	405
Proc ID:	RNAV(GPS)RWY 29R				
Amdt #:	ORIG	9	MA LVL SFC	POLE	1027
		##	MA HOLD	AAO	213



Airport ID:	KTOA	FM 9			
Apt Name:	ZAMPERINI FIELD	No	SEGMENT	OBSTRUCTION	ELEV
City:	TORRANCE				
State:	CA				
			LPV	ASC	
Proc ID:	RNAV(GPS)RWY 29R				
Amdt #:	ORIG				



Airport ID:	**KTOA**	FM 9			
Apt Name:	**ZAMPERINI FIELD**	No	SEGMENT	OBSTRUCTION	ELEV
City:	**TORRANCE**				
State:	**CA**				
		7	**LNAV/VNAV**	**TREE**	**426**
Proc ID:	**RNAV(GPS)RWY 29R**				
Amdt #:	**ORIG**				



Airport ID:	KTOA	FM 9			
Apt Name:	ZAMPERINI FIELD	No	SEGMENT	OBSTRUCTION	ELEV
City:	TORRANCE	8	LNAV	TANK	425
State:	CA				
		11	CIRC CAT A/B	FLAGPOLE	212
Proc ID:	RNAV(GPS)RWY 29R				
Amdt #:	ORIG	9	MA LVL SFC	POLE	1027

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
ALBAS (IAF)	DRIFY (FB)	304.56 / 8.17	2000
SLI VORTAC (IAF)	DRIFY (FB)	218.41 / 8.17	2000
DRIFY (IF)	ZILBA (FB)	294.57 / 4.35	2000
ZILBA (FAF)	RW29R (MAP) (FO)	294.49 / 5.13	
RW29R (MAP)	297 MSL	294.49	
297 MSL	ZANAN (FB)		
ZANAN	INISH (FO)	221.02 / 8.99	3000

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW29R

CLIMB TO 3000 DIRECT ZANAN AND ON TRACK 221.02 TO INISH AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT DRIFY
3. FAC: 294.49 FAF: ZILBA DIST FAF TO MAP: 5.13 THLD: 5.13
4. MIN. ALT: DRIFY 2000, ZILBA 2000
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2000 GS ALT AT: ZILBA OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.40 TCH: 51.4 34:1 IS CLEAR
8. MSA FROM: RW29R 7700

ADDITIONAL FLIGHT DATA:
HOLD W, RT, 071.00 INBOUND.
CHART FAS OBST: 426 TREE 334645N/1181919W
CHART FAS OBST: 425 TANK 334637N/1181847W
CHART VDP AT 1.35 MILES TO RW29R*
*LNAV ONLY.
WAAS CHANNEL # 56425
REFERENCE PATH ID: W29A
DISTANCE FROM THLD FROM 200 HATH: 0.41 NM.
LTP HAE: -6.4 M

MAG VAR: 14E EPOCH YEAR: 1970

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: N A

STANDARD @

CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	297	1/2	200	297	1/2	200		NA			NA				
LNAV/VNAV DA	767	1 5/8	670	767	1 5/8	670		NA			NA				
LNAV MDA	680	1/2	583	680	1/2	583		NA			NA				
CIRCLING	680	1	577	680	1	577		NA			NA				

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F).
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED,
EXCEPT FOR OPERATORS WITH APPROVED WEATHER REPORTING SERVICE, USE LOS ANGELES INTL ALTIMETER SETTING AND INCREASE ALL DA 24 FEET AND ALL MDA 40 FEET.
(SEE FORM 8260-10)

@ NA WHEN CONTROL TOWER CLOSED, EXCEPT FOR OPERATORS WITH APPROVED WEATHER REPORTING SERVICES.

CITY AND STATE	ELEVATION: 103 THRE: 97	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
TORRANCE, CA	AIRPORT NAME: ZAMPERINI FIELD	RNAV	RNAV (GPS) RWY 29R, ORIG	AMDT: NONE
				DATED

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		**ROUTINE**

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[ ]	[ ]	[ ]	[ ]	[X]	[X]	[X] **KTOA ATCT, SO CAL APP CON, ARPT MGR**

FLIGHT CHECKED BY		
NAME: **CARLOS ALBERTO ARANDA**	FIFO **FIOG**	DATE: **08/02/2011**
DEVELOPED BY		
NAME: **NEIL R. SIMPANEN**	FIFO **AJV-353**	DATE: **04/27/2011**
APPROVED BY		
NAME: **DEZ SILAGYI** **MANAGER**	FIFO **AJV-354**	DATE:

CHANGES:

ORIGINAL

REASONS:

REQUEST FROM WESTERN FPT

07/13/2012: THIS IS AN UPDATED COY OF THE FORM DEVELOPED ON 04/27/2011.
1. CHART NOTE CHANGED FROM CIRCLING NA SW OF RWY 11R-29L, TO CIRCLING NA SOUTHWEST OF RWY 11R-29L.
2. CHART NOTE CHANGED FROM FOR INOPERATIVE MALSR WHEN USING LOS ANGELES INTL ALTIMETER SETTING, INCREASE LNAV/VNAV VISIBILITY ALL CATS VISIBILITY TO 2 1/4; TO FOR INOPERATIVE MALSR WHEN USING LOS ANGELES INTL ALTIMETER SETTING, INCREASE LNAV/VNAV VISIBILITY ALL CATS TO 2 1/4.

QUALITY CHECKED

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV VISIBILITY TO 2.
CHART NOTE: CIRCLING NA SOUTHWEST OF RWY 11R-29L.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ALBAS ON V25 SOUTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON SLI VORTAC AIRWAY RADIALS 202 CW 272.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
CHART NOTE: FOR INOPERATIVE MALSR WHEN USING LOS ANGELES INTL ALTIMETER SETTING, INCREASE LNAV/VNAV VISIBILITY ALL CATS TO 2 1/4.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING LOS ANGELES INTL ALTIMETER SETTING.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 103 THRE: 97	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
TORRANCE, CA	AIRPORT NAME: ZAMPERINI FIELD	RNAV	RNAV (GPS) RWY 29R, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KTOA
RUNWAY	RW29R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W29A
LTP/FTP LATITUDE	334801.5675N
LTP/FTP LONGITUDE	1182003.0115W
LTP/FTP ELLIPSOIDAL HEIGHT	-00064
FPAP LATITUDE	334857.0700N
FPAP LONGITUDE	1182126.7600W
THRESHOLD CROSSING HEIGHT (TCH)	00051.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.40
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1392
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	EBD27B55

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00296
FPAP ORTHOMETRIC HEIGHT	+00296

QUALITY CHECKED 6

CITY AND STATE	ELEVATION: 103 THRE: 97	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
TORRANCE, CA	AIRPORT NAME: ZAMPERINI FIELD	RNAV	RNAV (GPS) RWY 29R, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
☐	☐	☐	☐	☐	☐	☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

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ARINC PACKET - 424-18 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        SLI   K2011570VTLA N33465987W118031712    N33465987W118031712E0150000231     NARSEAL BEACH

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ALBAS K20    C   L N33355868W118044016                      E0125     NAR           ALBAS
        SUSAEAENRT   DRIFY K20    R     N33420673W118110917                      E0125     NAR           DRIFY
        SUSAEAENRT   INISH K20    C   L N33451408W118322876                      E0126     NAR           INISH
        SUSAEAENRT   ZANAN K20    W     N33502431W118233841                      E0126     NAR           ZANAN
        SUSAEAENRT   ZILBA K20    W     N33444977W118151398                      E0125     NAR           ZILBA

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KTOAK2ATOA     0     050YHN33481220W118202260E014000103         1800018000C    MNAR    ZAMPERINI FIELD

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KTOAK2FR29R  AALBAS 010ALBASK2EA0E  A    IF                                                18000                A JS
        SUSAP KTOAK2FR29R  AALBAS 020DRIFYK2EA0EE B 010TF                     30460082    + 02000                            A JS
        SUSAP KTOAK2FR29R  ASLI   010SLI  K2D 0V  A    IF                                                18000                A JS
        SUSAP KTOAK2FR29R  ASLI   020DRIFYK2EA0EE B 010TF                     21840082    + 02000                            A JS
        SUSAP KTOAK2FR29R  R      010DRIFYK2EA0E  I    IF                                 + 02000     18000                A JS
        SUSAP KTOAK2FR29R  R      020ZILBAK2EA1E  F 051TF                     29460044    + 02000                RW29R K2PGA JS
        SUSAP KTOAK2FR29R  R      020ZILBAK2EA2WALPV       ALNAV/VNAV ALNAV                                                   JS
        SUSAP KTOAK2FR29R  R      030RW29RK2PG0GY M 031TF                     29450051      00148             -340          A JS
        SUSAP KTOAK2FR29R  R      040         0  M     CA                     2945        + 00297                            A JS
        SUSAP KTOAK2FR29R  R      050ZANANK2EA0E       DF                                                                      A JS
        SUSAP KTOAK2FR29R  R      060INISHK2EA0EY   010TF                     2210        + 03000                            A JS
        SUSAP KTOAK2FR29R  R      070INISHK2EA0EE  R   HM                     07100040    + 03000                            A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KTOAK2GRW29R   0050012945 N33480157W118200301-0300    -0006400097054051150I
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 103 THRE: 97	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
TORRANCE, CA	AIRPORT NAME: ZAMPERINI FIELD	RNAV	RNAV (GPS) RWY 29R, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
☐	☐	☐	☐	☐	☐	☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

```
PP      1         2         3         4         5         6         7         8         9         0         1         2         3
        123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123
        ------------------------------------------------------------------------------------------------------------------------
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        SUSAP KTOAK2PR29R  RW29R002E      +00296+00296LPV       56425

MSA     1         2         3         4         5         6         7         8         9         0         1         2         3
        123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123
        ------------------------------------------------------------------------------------------------------------------------
        SUSAP KTOAK2SRW29RK2PG               0   18018007725                                                                   M
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 103 THRE: 97	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
TORRANCE, CA	AIRPORT NAME: ZAMPERINI FIELD	RNAV	RNAV (GPS) RWY 29R, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
☐	☐	☐	☐	☐	☐	☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC FLIGHT INSPECTION SUMMARY - VERSION 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE
	ALBAS	ALBAS	010	IAF	IF						
	ALBAS	DRIFY	020	IF	TF		FB	1.0	304.6(318.6T)	008.2	02000
	SLI	SLI	010	IAF	IF						
	SLI	DRIFY	020	IF	TF		FB	1.0	218.4(232.4T)	008.2	02000
		DRIFY	010	FACF	IF						02000
		ZILBA	020	FAF	TF		FB	0.5	294.6(308.6T)	004.4	02000
		RW29R	030	MAP	TF		FO	0.3	294.5(308.5T)	005.1	00148

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE
		040		CA				294.5(308.5T)		00297
	ZANAN	050		DF		FB				
	INISH	060		TF		FO	1.0	221.0(235.0T)		03000
	INISH	070		HM	R	FO		071.0(085.0T)	004.0	03000

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	SLI	N334659.87	W1180317.12	N3346.998	W11803.285
	ALBAS	N333558.68	W1180440.16	N3335.978	W11804.669
	DRIFY	N334206.73	W1181109.17	N3342.112	W11811.153
	INISH	N334514.08	W1183228.76	N3345.235	W11832.479
	ZANAN	N335024.31	W1182338.41	N3350.405	W11823.640
	ZILBA	N334449.77	W1181513.98	N3344.830	W11815.233
	RW29R	N334801.57	W1182003.01	N3348.026	W11820.050

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW29R	00097	51

QUALITY CHECKED

CITY AND STATE	ELEVATION: 103 THRE: 97	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
TORRANCE, CA	AIRPORT NAME: ZAMPERINI FIELD	RNAV	RNAV (GPS) RWY 29R, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
INITIAL	ALBAS	DRIFY	1. SHIP	333900.00N/1180752.00W	213 (2C)	1000	AT787	2000
			2. OVER WATER	333800.00N/1180752.00W	0 (0)		AS1500	1500
INITIAL	SLI VORTAC	DRIFY	3. CRANE (06-001436)	334433.00N/1181134.00W	260 (5D)	1000	AT740	2000
			4. TERRAIN	334454.00N/1180536.00W	50 (100)		AS1500	1600
INTERMEDIATE	DRIFY	ZILBA	5. CRANE (06-002894)	334335.00N/1181419.00W	405 (5D)	500	AT1095	2000
			6. TERRAIN	334502.00N/1181231.00W	21 (0)		AS1500	1500
FINAL: LPV	ZILBA	RW29R				ASC		297/200
FINAL: LNAV/VNAV	ZILBA	RW29R	7. TREE (KTOA0098)	334645.17N/1181918.63W	426 (2C)	23.44:1	AC20 SA-84	767/670
FINAL: LNAV	ZILBA	RW29R	8. TANK (KTOA0107)	334637.20N/1181846.69W	425 (1A)	250		680
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:	DA / DA / RW29R	INISH				ASC		3000
			9. POLE (KTOA0115)	334709.59N/1182258.70W	1027 (1A)	1000		2100
ELEV:	122/625/580		10. TERRAIN	334745.00N/1182400.00W	391 (400)		AS1500	1900
			11. FLGPL (KTOA0089)	334929.64N/1182106.95W	212 (1A)	300	SI	680
			11. FLGPL (KTOA0089)	334929.64N/1182106.95W	212 (1A)	300	SI	680

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL	
CATEGORY A	1.3 NM	350		577
CATEGORY B	1.5 NM	450		577
CATEGORY C	1.7 NM	450		
CATEGORY D	2.3 NM	550		
CATEGORY E	4.5 NM	550		

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW29R

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (06-000230)	013/ 29.0	6631 (3C)	7700					

CITY AND STATE	ELEVATION: 103 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
TORRANCE, CA	ZAMPERINI FIELD	RNAV	RNAV (GPS) RWY 29R, ORIG	AWP

QUALITY CHECKED 6

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
TOA TOWER SOCAL APP CON		N W S	OTHER:	SOURCE: KTOA / KLAX
				DISTANCE: 0 / 8.99
	X	F A A	LAWRS	HOURS REMOTE OPERATION:
SATISFACTORY ON:		A / C		
X V H F X U H F H F	LOCATION: KTOA			ADJUSTMENT: 0 / 0

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
	X	MALSR 29R (PCL)
		HIRL
	X	MIRL 11R, 11L, 29R, 29L
	X	REIL 29L
		TDZ
		C/LINE
	X	OTHER (SPECIFY) VASI-2L 11L, 29L VASI-4L 29R

6. RUNWAY MARKINGS	BASIC	BSC-F 11R, 29L
	ALL WEATHER	PIR-G 11L; -F 29R
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE: 3.40	ELEV RWY THRESHOLD: 97.0
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 51.4

9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: NEIL R. SIMPANEN	DATE: 04/27/2011
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

PART B, BLOCK 3: ALTIMETER SETTING.
SOURCE: KTOA (LAWRS)
DISTANCE: 0
HRS: SEE AFD.
ADJUSTMENT: 0.

SOURCE: KLAX (ASOS)
DISTANCE: 8.99 NM
HRS: 24.
ADJUSTMENT: 24 FEET (23.83)

BARO-VNAV NA WHEN ABOVE 101C(213F) CHARTED 54C(130F).

3.40 GS, 51.4 TCH USED TO MATCH ILS AND AVOID LAX.

RASS PRESSURE PATTERNS SAME
KTOA 103.20, KLAX 125.70
RA = 24.
SEE ATTACHED AIRSPACE LETTER.

OBST # 7 IS 72.24 FEET INTO SECONDARY AREA

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: DRIFY **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 334206.73N/1181109.17W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	TORRANCE	I-TOA	LOC/DME		114.45	128.45	10.30	10.29		1500	4500
2	SEAL BEACH	SLI	VORTAC	L	218.41	233.41		8.17		1500	17500

HOLDING: **HOLDING TYPE OF ACTION:** CANCEL

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 29R	1, 2		KTOA	TORRANCE	CA (US)
IAP	RNAV (GPS) RWY 29R			KTOA	TORRANCE	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 09/22/2011

REASON FOR REVISION:
FAC #1 AND #2 BEARINGS REVISED AND NM ADDED.
FAC #1 MAA REVISED FROM 7000 TO 4500, 7000 NO LONGER REQUIRED.
HOLDING PATTERN 1 DELETED, NO LONGER REQUIRED.
UPDATED FIX USE.
ADDED WP STATUS.
UPDATED DISTRIBUTION LISTING.

DEVELOPED BY: **DATE:** 06/09/2011 **OFFICE:** AJV-353 **NAME:** NEIL SIMPANEN

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** GREGORY YAMAMOTO

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZLA
ATC FACILITY: LAX APP CON, TOA ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: FERMY **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 334400.29N/1181309.88W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	LOS ANGELES	LAX	VORTAC	H	123.33	138.33	16.00	16.00		2100	17500
2	SEAL BEACH	SLI	VORTAC	L	235.11	250.11		8.76		2100	17500

FIX RESTRICTIONS:
MCA V-25 2700 NORTHWEST BOUND

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SE		WP	123.33	303.33	R		4	2700	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (06-000413)	334446.00N/1182007.00W	1543	4D
1	310	TOWER (06-000413)	334446.00N/1182007.00W	1543	4D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 11L	KTOA	TORRANCE	CA (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V25	1, 2				(US)
IAP	RNAV (GPS) RWY 11L		1	KTOA	TORRANCE	CA (US)

REQUIRED CHARTING: SECTIONAL, VFR TERMINAL AREA, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
ADDED HOLDING.
FORMAT AND EDITORIAL UPDATES.
UPDATED FIX USE.
COORDINATES UPDATED TO REALIGN ON AIRWAY, FIX MOVED 108 FEET SOUTHWEST.

DEVELOPED BY: **DATE:** 04/04/2011 **OFFICE:** AJV-353 **NAME:** NEIL SIMPANEN

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZLA
ATC FACILITY: LAX APP CON
OTHER: KTOA ATCT

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: INISH **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 334514.08N/1183228.76W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SEAL BEACH	SLI	VORTAC	L	251.00	266.00	24.40	24.40			17500
2	LOS ANGELES	LAX	VORTAC	H	192.00	207.00	12.04	12.04			45000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W		WP	251.00	071.00	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	200' AAO	334452.60N/1182024.20W	1700	6A
1	200	SHIP	334654.94N/1183217.49W	213	2C
1	310	200' AAO	334539.00N/1182300.00W	1323	4E

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS)RWY 29R	KTOA	TORRANCE	CA (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V8	1, 2				(US)
IAP	RNAV (GPS) RWY 11 L		1	KTOA	TORRANCE	CA (US)
IAP	RNAV (GPS)RWY 29R		1	KTOA	TORRANCE	CA (US)

REQUIRED CHARTING: IAP, AREA, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 09/22/2011

REASON FOR REVISION:
UPDATE FIX USE, ADDED KTOA RNAV 11L AND 29R.
DELETED FAC 3, NO LONGER REQUIRED.
UPDATED FORMAT OF DATA, EDITORIAL CHANGES.
DELETED DP USAGE, NO LONGER REQUIRED.
ADDED DISTANCE FROM FAC 1 AND 2 IN NM.

DEVELOPED BY: **DATE:** 04/04/2011 **OFFICE:** AJV-353 **NAME:** NEIL SIMPANEN

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: LAX
ARTCC: ZLA
ATC FACILITY: SOCAL APP CON
OTHER: TOA ATCT, LAX ATCT

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZANAN **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 335024.31N/1182338.41W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

REMARKS:
USED AS FAF RWY 11L AND MA FIRST FIX RWY 29R.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 11L			KTOA	TORRANCE	CA (US)
IAP	RNAV (GPS) RWY 29R			KTOA	TORRANCE	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 08/25/2011

DEVELOPED BY: **DATE:** 04/04/2011 **OFFICE:** AJV-353 **NAME:** NEIL SIMPANEN

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZLA
ATC FACILITY: SOCAL APP CON
OTHER: KTOA ATCT, LAX ATCT

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZILBA **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 334449.77N/1181513.98W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 29R			KTOA	TORRANCE	CA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/22/2011

DEVELOPED BY: **DATE:** 04/14/2011 **OFFICE:** AJV-353 **NAME:** NEIL SIMPANEN

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZLA
ATC FACILITY: SOCAL APP CON
OTHER: KTOA ATCT, LAX ATCT

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: ALBAS **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 333558.68N/1180440.16W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	LOS ANGELES	LAX	VORTAC	H	123.33	138.33	26.70	26.70		2000	17500
2	SEAL BEACH	SLI	VORTAC	L	171.00	186.00		11.06		2000	17500
3	SANTA CATALINA	SXC	VORTAC	L	036.83	051.83		21.81		4000	17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	S	SLI	VORTAC	171.00	351.00	L	1		2000	4000	6	7
2	S		WP	171.00	351.00	L		5	2000	4000	6	7

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	SHIP	333736.00N/1180000.00W	208	2C
2	230	SHIP	333736.00N/1180000.00W	208	2C

REASON FOR NONSTANDARD HOLDING:
PAT 2 AIR TRAFFIC REQUEST
PAT 1 AIR TRAFFIC

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V25	1, 2				
IAP	VOR-A	2		KFUL	FULLERTON	CA (US)
IAP	RNAV (GPS) Z RWY 30			KLGB	LONG BEACH	CA (US)
IAP	RNAV (RNP) RWY 12		2	KLGB	LONG BEACH	CA (US)
IAP	RNAV (RNP) RWY 25R		2	KLGB	LONG BEACH	CA (US)
IAP	RNAV (RNP) Y RWY 30		2	KLGB	LONG BEACH	CA (US)
IAP	RADAR 1	2	1	KSLI	LOS ALAMITOS	CA (US)
IAP	RADAR 2	2	1	KSLI	LOS ALAMITOS	CA (US)
IAP	RADAR 3	2	1	KSLI	LOS ALAMITOS	CA (US)
IAP	RNAV (GPS) RWY 22R		2	KSLI	LOS ALAMITOS	CA (US)
IAP	ILS RWY 29R	1		KTOA	TORRANCE	CA (US)
IAP	RNAV (GPS) RWY 29R			KTOA	TORRANCE	CA (US)
STAR	TANDY	1, 2, 3		KLGB	LONG BEACH	CA (US)

REQUIRED CHARTING: STAR, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 08/25/2011

REASON FOR REVISION:
1. ADDED DIST FROM FAC DATA FOR FAC 1 AND 2.
2. DELETED OYSUP WP AS FAC 3, NO LONGER REQUIRED.
3. ADDED SXC VORTAC AS FAC 3 FOR TANDY STAR.
4. ADDED PR STATEMENT TO REMARKS.
5. UPDATED FIX USE.

6/2/2011: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 11/16/2010.
1. ADDED REASON FOR PAT 2 NON STANDARD HOLDING.
2. REMOVED LL PREDICATED ON FAC 1 AND FAC 2 INTERSECT REMARK.

DEVELOPED BY: **DATE:** 11/16/2010 **OFFICE:** AVN-130 **NAME:** ROY CURRIE

APPROVED BY: **DATE:** 06/13/2011 **OFFICE:** AVN-130 **NAME:** DEZ SILAGYI

SIGNATURE:

QUALITY CHECKED

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZLA
ATC FACILITY: SOCAL APP CON
OTHER: FUL ATCT, TOA ATCT, SLI ATCT

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: SEAL BEACH VORTAC **STATE:** CA **COUNTRY:** US

LATITUDE/LONGITUDE: 334659.87N/1180317.12W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SEAL BEACH	SLI	VORTAC	L							17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE	SLI	VORTAC	058.00	238.00	L	1-1 1/2		3700	17500	4	16
2	SE	SLI	VORTAC	120.00	300.00	L	1-1 1/2		1500	17500	4	16
3	S	SLI	VORTAC	171.00	351.00	L	1-1 1/2		1800	17500	4	16
4	NE		WP	058.00	238.00	L		4	2600	12000	5	10
5	SE		WP	120.00	300.00	L		4	2600	14000	5	11
6	NE	SLI	VORTAC	058.00	238.00	L	1-1 1/2		2600	17500	4	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	AAO	335421.00N/1175742.00W	804	4E
1	200	BLDG (06-000442)	334652.00N/1175336.00W	473	1D
1	310	AAO	334806.00N/1174021.00W	2694	2C
2	200	TOWER (06-002478)	334725.60N/1180855.10W	337	2C
3	200	TOWER (06-002478)	334725.60N/1180855.10W	337	2C
3	310	TOWER (06-020156)	335246.80N/1180049.66W	750	4D
4	200	BLDG (06-000442)	334652.00N/1175336.00W	473	1D
5	200	AAO	374745.00N/1180924.00W	437	4E
6	200	BLDG (06-000442)	334652.00N/1175336.00W	473	1D

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST
PAT 2 ATC REQUEST
PAT 3 ATC REQUEST
PAT 4 ATC REQUEST
PAT 5 ATC REQUEST
PAT 6 ATC REQUEST

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 1900.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RADAR 1	KSLI	LOS ALAMITOS	CA (US)
1	RADAR 2	KSLI	LOS ALAMITOS	CA (US)
1	RADAR 3	KSLI	LOS ALAMITOS	CA (US)
3	TAKEOFF MINIMUMS	KSNA	SANTA ANA	CA (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ELMOO			KBUR	BURBANK	CA (US)
DP	ANAHEIM			KFUL	FULLERTON	CA (US)
DP	TAKEOFF MINIMUMS			KFUL	FULLERTON	CA (US)
DP	ANAHEIM			KLGB	LONG BEACH	CA (US)
DP	TAKEOFF MINIMUMS			KLGB	LONG BEACH	CA (US)
DP	ALBACOR			KSLI	LOS ALAMITOS	CA (US)
DP	TAKEOFF MINIMUMS			KSLI	LOS ALAMITOS	CA (US)
DP	CATALINA			KLAX	LOS ANGELES	CA (US)
DP	GABRE			KLAX	LOS ANGELES	CA (US)
DP	HOLTZ (RANV)			KLAX	LOS ANGELES	CA (US)
DP	HOLTZ (RNAV)			KLAX	LOS ANGELES	CA (US)
DP	IMPER			KLAX	LOS ANGELES	CA (US)
DP	JEDDD (RNAV)			KLAX	LOS ANGELES	CA (US)
DP	LAXX			KLAX	LOS ANGELES	CA (US)
DP	OSHNN (RNAV)			KLAX	LOS ANGELES	CA (US)
DP	SAN DIEGO			KLAX	LOS ANGELES	CA (US)
DP	SEAL BEACH			KLAX	LOS ANGELES	CA (US)
DP	SEBBY			KLAX	LOS ANGELES	CA (US)
DP	TAKEOFF MINIMUMS			KLAX	LOS ANGELES	CA (US)
DP	PRADO			KONT	ONTARIO	CA (US)
DP	LNSAY			KSAN	SAN DIEGO	CA (US)
DP	PEBLE			KSAN	SAN DIEGO	CA (US)
DP	ANAHEIM			KSNA	SANTA ANA	CA (US)

QUALITY CHECKED 6

DP	CHANNEL		KSNA	SANTA ANA	CA (US)
DP	IRVINE		KSNA	SANTA ANA	CA (US)
DP	MUSEL		KSNA	SANTA ANA	CA (US)
DP	TAKEOFF MINIMUMS	3	KSNA	SANTA ANA	CA (US)
DP	PEVEE (RNAV)		KSMO	SANTA MONICA	CA (US)
DP	GLENDALE		KVNY	VAN NUYS	CA (US)
EN ROUTE	J134				(US)
EN ROUTE	J169				(US)
EN ROUTE	J78				(US)
EN ROUTE	T245				(US)
EN ROUTE	T247				(US)
EN ROUTE	T249				(US)
EN ROUTE	V165				(US)
EN ROUTE	V21				(US)
EN ROUTE	V23				(US)
EN ROUTE	V283				(US)
EN ROUTE	V372				(US)
EN ROUTE	V394				(US)
EN ROUTE	V459				(US)
EN ROUTE	V597				(US)
EN ROUTE	V64				(US)
EN ROUTE	V8				(US)
IAP	NDB OR GPS-C		KEMT	EL MONTE	CA (US)
IAP	VOR OR GPS-A		KEMT	EL MONTE	CA (US)
IAP	VOR/DME OR GPS-B		KEMT	EL MONTE	CA (US)
IAP	LOC/DME RWY 24	2	KFUL	FULLERTON	CA (US)
IAP	RNAV (GPS) RWY 24	4	KFUL	FULLERTON	CA (US)
IAP	VOR-A	6	KFUL	FULLERTON	CA (US)
IAP	LOC RWY 25		KHHR	HAWTHORNE	CA (US)
IAP	RNAV (GPS) RWY 25		KHHR	HAWTHORNE	CA (US)
IAP	VOR OR GPS RWY 25		KHHR	HAWTHORNE	CA (US)
IAP	ILS RWY 26L		KPOC	LA VERNE	CA (US)
IAP	VOR OR GPS-A		KPOC	LA VERNE	CA (US)
IAP	ILS OR LOC RWY 30		KLGB	LONG BEACH	CA (US)
IAP	RNAV (GPS) Z RWY 30	1	KLGB	LONG BEACH	CA (US)
IAP	VOR OR TACAN RWY 30	2	KLGB	LONG BEACH	CA (US)
IAP	NDB RWY 22L		KSLI	LOS ALAMITOS	CA (US)
IAP	RADAR 1	1	KSLI	LOS ALAMITOS	CA (US)
IAP	RADAR 2	1	KSLI	LOS ALAMITOS	CA (US)
IAP	RADAR 3	1	KSLI	LOS ALAMITOS	CA (US)
IAP	VOR OR TACAN RWY 22L		KSLI	LOS ALAMITOS	CA (US)
IAP	ILS OR LOC RWY 06L		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 06R		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 07L		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 07R		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 24L		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 24R		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 25L		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 25R		KLAX	LOS ANGELES	CA (US)
IAP	ILS RWY 24R (CAT II)		KLAX	LOS ANGELES	CA (US)
IAP	ILS RWY 24R (CAT III)		KLAX	LOS ANGELES	CA (US)
IAP	ILS RWY 25L (CAT II)		KLAX	LOS ANGELES	CA (US)
IAP	ILS RWY 25L (CAT III)		KLAX	LOS ANGELES	CA (US)
IAP	ILS RWY 25R (CAT II)		KLAX	LOS ANGELES	CA (US)
IAP	RNAV (GPS) RWY 25R		KLAX	LOS ANGELES	CA (US)
IAP	RNAV (GPS) Y RWY 24L		KLAX	LOS ANGELES	CA (US)
IAP	RNAV (GPS) Y RWY 24R		KLAX	LOS ANGELES	CA (US)
IAP	RNAV (GPS) Y RWY 25L		KLAX	LOS ANGELES	CA (US)
IAP	ILS OR LOC RWY 9		KRAL	RIVERSIDE	CA (US)
IAP	FREEWAY VISUAL RWY 19R		KSNA	SANTA ANA	CA (US)
IAP	LDA RWY 19R		KSNA	SANTA ANA	CA (US)
IAP	LOC BC RWY 1L	1	KSNA	SANTA ANA	CA (US)
IAP	NDB RWY 19R	1	KSNA	SANTA ANA	CA (US)
IAP	RNAV (GPS) RWY 1L	5	KSNA	SANTA ANA	CA (US)
IAP	VOR OR GPS-A		KSMO	SANTA MONICA	CA (US)
IAP	ILS OR LOC RWY 29R		KTOA	TORRANCE	CA (US)
IAP	RNAV (GPS) RWY 29R		KTOA	TORRANCE	CA (US)
IAP	VOR OR GPS RWY 11L		KTOA	TORRANCE	CA (US)
STAR	FERNANDO		KBUR	BURBANK	CA (US)
STAR	FODRR		KCRQ	CARLSBAD	CA (US)
STAR	KAYOH		KLGB	LONG BEACH	CA (US)
STAR	TANDY		KLGB	LONG BEACH	CA (US)
STAR	BASET		KLAX	LOS ANGELES	CA (US)
STAR	BUFIE (RNAV)		KLAX	LOS ANGELES	CA (US)
STAR	DOWNE		KLAX	LOS ANGELES	CA (US)
STAR	KIMMO		KLAX	LOS ANGELES	CA (US)
STAR	LEENA		KLAX	LOS ANGELES	CA (US)
STAR	OCEAN		KLAX	LOS ANGELES	CA (US)
STAR	REDEYE		KLAX	LOS ANGELES	CA (US)
STAR	REEDR		KLAX	LOS ANGELES	CA (US)
STAR	SHIVE		KLAX	LOS ANGELES	CA (US)
STAR	VISTA		KLAX	LOS ANGELES	CA (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

QUALITY CHECKED

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 07/29/2010

REASON FOR REVISION:
CORRECTED OBSTACLE ID AND MSL DATA ON PATTERN 2 FROM 331 TO 337, CORRECTED OBSTACLE MSL HEIGHT PAT 3 FROM 335 TO 337.
UPDATED FIX USE.

DEVELOPED BY:	**DATE:** 04/16/2010	**OFFICE:** AVN-130	**NAME:** ANDREW FIELDS
APPROVED BY:	**DATE:** 06/07/2010	**OFFICE:** AVN-130	**NAME:** DEZ SILAGYI
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZLA
ATC FACILITY: SOCAL TRACON
OTHER: SNA ATCT, SLI ATCT

INFO ONLY

QUALITY CHECKED

TORRANCE, CALIFORNIA. TORRANCE/ZAMPERINI FIELD (KTOA)
RNAV (GPS) RWY 29R

Glidepath is higher than optimum glidepath of 3 degrees as per 8260-54A, Section 3, Para 2.10.

The RNAV LPV glide slope for the RNAV (GPS) RWY 29R is 3.40 degrees. The airport is located in close proximity to Los Angeles International (LAX) airport. The agreed upon design of this approach avoids LAX airspace and multiple procedures for LAX.

The design was approved through the Regional Airspace Team (RAPT).

In the interest of aviation/commerce, request approval to publish 3.40 glideslope.