

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**

**TITLE 14 CFR PART 97.33**

Bearings, headings, courses, tracks 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 feet RVR.

<u>AIRPORT ID</u> KSMF	<u>PROCEDURE NAME</u> RNAV (GPS) Y RWY 35L	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> SACRAMENTO	<u>STATE</u> CA	
<u>AIRPORT ELEVATION</u> 27	<u>TDZE</u> 24	<u>SUPERSEDED</u> RNAV (GPS) Y RWY 35L	<u>ORIGINAL/AMENDMENT</u> 2B	<u>DATED</u> 05/21/2020	<u>MAG VAR</u> 13E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 24 MARCH 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2020

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ISYOH	IAF	ELMAC		TF	FB	1.00	026.27	9.84	3000
MYNRR	IAF	ELMAC		TF	FB	1.00	299.13	24.93	3000
ELMAC	IF	HADSU		TF	FB	1.00	347.75	7.26	1400
HADSU	FAF	CANLO/1.25 NM TO RW35L		TF	FB	0.30	347.74	2.89	
CANLO/1.25 NM TO RW35L		RW35L	MAP	TF	FO	0.30	347.74	1.25	
RW35L	MAP	800 MSL		CA			347.74		800
800 MSL		GRIME		DF	FO	1.00			2000

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW35L

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 800 THEN CLIMBING LEFT TURN TO 2000 DIRECT GRIME AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



**PROFILE:**

- 1. PT            SIDE OF COURSE                            OUTBOUND                            FT WITHIN                            MILES OF                            (IAF)
- 2. PROFILE STARTS AT ELMAC
- 3. FAF: 347.74                            FAF: HADSU                            DIST FAF TO MAP: 4.14                            DIST FAF TO THLD: 4.14
- 4. MIN ALT:    ELMAC 3000, HADSU 1400, CANLO/1.25 NM TO RW35L 480
- 5. DIST TO THLD FROM OM:                            MM:                            IM:                            150 HAT:                            200 HAT: 0.45                            GS ANT:
- 6. MIN GP INCPT: 1400                            GP ALT AT PFAF: HADSU 1400                            OM:                            MM:                            IM:
- 7. GP ANGLE: 3.00                            34:1: IS CLEAR                            20:1: IS CLEAR                            TCH: 59.4
- 8. MSA FROM: RW35L 4300

**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

**NOTES:**

CHART NOTE: CIRCLING NA E OF RWY 17R-35L.  
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -2°C OR ABOVE 54°C.  
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500 AND INCREASE LNAV CAT C/D VISIBILITY TO RVR 5500.  
 CHART NOTE: \*RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.  
 CHART SPEED ICON IN PLANVIEW AT ELMAC: MAX 210 KIAS.

**ADDITIONAL FLIGHT DATA:**

CHART CIRCLING ICON.  
 HOLD SE, RT, 333.00 INBOUND.  
 CHART FAS OBST: 130 POLE (06-028139) 384110N/1213526W.  
 WAAS CHANNEL # 86602  
 REFERENCE PATH ID: W35A  
 LTP HAE: -23.7 M

**MINIMUMS:**

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

ALTERNATE: NA  STANDARD



CATEGORY:	A			B			C			D			E		
	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA*	224	2400	200	224	2400	200	224	2400	200	224	2400	200			
LNAV/VNAV DA	311	2400	287	311	2400	287	311	2400	287	311	2400	287			
LNAV MDA	380	2400	356	380	2400	356	380	3000	356	380	3000	356			
CIRCLING	440	1	413	480	1	453	480	1 1/2	453	580	2	553			

**CHANGES - REASONS**

1. ADDED AN INITIAL SEGMENT FROM MYNRR TO ELMAC - PER FPR/ATC REQUEST.
2. LOWERED IF ALTITUDE AT ELMAC FROM 3400 TO 3000 AND ADDED A SPEED RESTRICTION OF AT OR BELOW 210 KIAS - FPT/ATC REQUESTED.
3. UPDATED COURSE/DISTANCE BETWEEN ELMAC AND HADSU (HADSU REPLACED AMEME) FROM 347.74 TO 347.75/7.25 TO 7.26 - ELMAC MOVED EAST 12 FT.
4. LOWERED ALTITUDE BETWEEN ISYOH AND ELMAC FROM 3400 TO 3000; UPDATED COURSE FROM 026.28 TO 026.27 - FPT/ATC REQUESTED/ELMAC MOVED EAST 12 FT.
5. CHANGED TCH FROM 59.0 TO 59.4 - DESIGN TCH APPLICATION.
6. UPDATED CHART NOTE FROM: FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO RVR 4000 AND LNAV CAT C/D VISIBILITY TO RVR 5500 TO FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500 AND INCREASE LNAV CAT C/D VISIBILITY TO RVR 5500 - IAW INOPERATIVE TABLE.
7. DELETED \*LNAV ONLY FROM ADDITIONAL FLIGHT DATA - NO LONGER REQUIRED.
8. UPDATED CHART NOTE FROM: \*\* RVR 1800 AUTHORIZED TO \* RVR 1800 AUTHORIZED AND CHANGED LPV DA LINE OF MINIMA TO MATCH - ASTERISK NO LONGER REQUIRED FOR LNAV ONLY.
9. UPDATED CHART NOTE FROM: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -4°C OR ABOVE 54°C TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -2°C OR ABOVE 54°C - PER 8260.58B AJV VALIDATED CALCULATOR.
10. UPDATED DISTANCE FOR A 200 FT HAT FROM 0.44 TO 0.45 - TARGETS CALCULATED VALUE.
11. ADDITIONAL FLIGHT DATA: DELETED CHART VDP AT 0.95 NM TO RW35L - NOT AUTHORIZED DUE TO VDP IS LOCATED WITHIN 0.5 NM FROM FINAL FIX.
12. UPDATED PBN REQUIREMENTS NOTE FROM RNP APCH TO RNP APCH - GPS - PER .58 CRITERIA.
13. UPDATED MISSED APPROACH FROM CLIMB TO 2000 DIRECT RATBE AND TRACK 327 TO GRIME AND HOLD TO CLIMB TO 800 THEN CLIMBING LEFT TURN TO 2000 DIRECT GRIME AND HOLD - PER FPT/ATC CHECKLIST.
14. LNAV/VNAV DA/HAT LOWERED FROM 313/289 TO 311/287 - TARGETS EVALUATED VALUE WITHOUT A MISSED PENETRATION.
15. MOVED SDF CANLO 2740 FT NORTH - TO MATCH THE ILS/LOC AND RNAV (GPS) Y RWY 35L IAW .19I.
16. REPLACED AMEME WITH HADSU DUE TO UTILIZING THE SAME FIX FOR THE ILS/LOC AND RNAV (GPS) Y RWY 35L IAW .19I.
17. UPDATED THE FOLLOWING DISTANCES BETWEEN: HADSU AND CANLO FROM 2.44 TO 2.89; CANLO TO REWY 35L FROM 1.70 TO 1.25 - SDF RELOCATED TO ACCOMMODATE THE ILS/LOC AND RNAV (GPS) Y RWY 35L IAW .19I.
18. UPDATED FAS DATA BLOCK INFORMATION AS FOLLOWS: FPAP LATITUDE/LONGITUDE FROM 384230.6200N-1213603.8375W TO 384230.6195N-1213603.8260W; TCH FROM 59.0 TO 59.4; CRC REMAINDER FROM 66FF70F8 TO C4C9D6DE.

**COORDINATED WITH:**

**A4A**  **ALPA**  **AOPA**  **APA**  **HAI**  **NBAA**  **OTHER:** ZOA, SMF ATCT, NORCAL APP CON, AMGR.

**FLIGHT CHECKED BY**

DANIEL C FAVORITE

*Digitally signed by*  
**CASIMIR L TABAKA**  
Jan 19, 2022

**OFFICE**

FPO

**DATE**

01/14/2022

**DEVELOPED BY**

SYLVAN DRAKES

*Digitally signed by*  
**SYLVAN DRAKES**

Dec 09, 2021

**OFFICE**

AJV-A411

**DATE**

08/19/2021

**APPROVED BY**

JULIE MORGAN

*Digitally signed by*  
**CASIMIR L TABAKA**

Dec 21, 2021

**OFFICE**

AJV-A410

**DATE**

**TITLE**  
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSMF
RUNWAY	RW35L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	384101.4390N
LTP/FTP LONGITUDE	1213605.3075W
LTP/FTP ELLIPSOIDAL HEIGHT	-00237
FPAP LATITUDE	384230.6195N
FPAP LONGITUDE	1213603.8260W
THRESHOLD CROSSING HEIGHT (TCH)	00059.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0128
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	C4C9D6DE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00069
FPAP ORTHOMETRIC HEIGHT	+00069

