

**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> KRNO	<u>PROCEDURE NAME</u> RNAV (GPS) X RWY 35R	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> RENO	<u>STATE</u> NV	
<u>AIRPORT ELEVATION</u> 4415	<u>TDZE</u> 4408	<u>SUPERSEDED</u> RNAV (GPS) X RWY 34R	<u>ORIGINAL/AMENDMENT</u> 2	<u>DATED</u> 03/26/2020	<u>MAG VAR</u> 13E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 3 NOVEMBER 2022	<u>REQUIRED EFFECTIVE DATE</u> 11/03/2022	<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
SWR VOR/DME		ZAPTU		TF	FB	1.00	091.21	16.79	11800
ZAPTU		PIDIC		TF	FB	1.00	077.02	7.04	11500
RICHY		PIDIC		TF	FB	1.00	046.70	13.46	11500
VIKES		NIPME		TF	FB	1.00	179.30	6.76	11000
PIDIC	IAF	ROYDO		TF	FB	1.00	348.68	4.37	9900
NIPME	IAF	ROYDO		TF	FB	1.00	258.60	6.88	9900
RAMRE	IAF	ROYDO		TF	FB	1.00	324.10	9.92	9900
TARVR	IAF	SPOON		TF	FB	1.00	347.09	17.49	12000
SPOON		ROYDO		TF	FB	1.00	348.61	4.58	9900
ROYDO	IF	PUNTE		TF	FB	1.00	347.11	5.63	8600
PUNTE		SUTEE		TF	FB	1.00	347.11	2.74	8100
SUTEE	FAF	FAXEM/5.99 NM TO RW35R		TF	FB	0.30	347.11	3.95	
FAXEM/5.99 NM TO RW35R		RW35R	MAP	TF	FO	0.30	347.11	5.99	
RW35R	MAP	4815 MSL		CA			347.11		
4815 MSL		FOBAX		DF	FB	1.00			
FOBAX		TAKLE		TF	FO	1.00	345.97	5.68	11000



MISSED APPROACH

MAP:

LNAV/VNAV: DA
LNAV: RW35R

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 11000 DIRECT FOBAX AND ON TRACK 345.97 TO TAKLE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 11000.
**MISSED APPROACH REQUIRES MINIMUM CLIMB OF 250 FEET PER NM TO 5600.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. PROFILE STARTS AT ROYDO					
3. FAC: 347.11		FAF: SUTEE		DIST FAF TO MAP: 9.94	DIST FAF TO THLD: 9.94
4. MIN ALT: ROYDO 9900, PUNTE 8600, SUTEE 8100, FAXEM/5.99 NM TO RW35R 6660					
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	1063 HAT: 2.72	GS ANT:
6. MIN GP INCPT: 8100	GP ALT AT PFAF : SUTEE 8100			OM:	MM:
7. GP ANGLE: 3.42	34:1: IS NOT CLEAR	20:1: IS CLEAR	TCH: 75.0		IM:
8. MSA FROM: RW35R 12000					

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING RWY 8 NA AT NIGHT.
CHART NOTE: RWY 35R HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: BARO-VNAV NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RICHY ON V28-113 SOUTHWEST BOUND, ARRIVALS AT RAMRE ON V165 SOUTHBOUND, AND ARRIVALS AT SWR VOR/DME ON AIRWAY RADIALS 005 CW 062.
CHART SPEED ICON IN PLANVIEW AT PIDIC: MAX 250 KIAS.
CHART SPEED ICON IN PLANVIEW AT NIPME: MAX 250 KIAS.
CHART SPEED ICON IN PLANVIEW AT ROYDO: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART MANDATORY 14000 AT TARVR.
HOLD N, RT, 167.12 INBOUND.
FAS OBST: 5120 AAO 392406N/1194647W.
CHART 5215 POLE 392333N/1194706W.
CHART VDP AT 2.50 NM TO RW35R.
CHART CIRCLING ICON.



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

ALTERNATE: NA CAT A, B 1100-4, CAT C, D 2100-4

CATEGORY:	A			B			C			D			E			
	FINAL TYPE	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
LNAV/VNAV DA	5471	4	1063	5471	4	1063	5471	4	1063	5471	4	1063				
LNAV MDA**	5380	1 1/4	972	5380	1 1/2	972	5380	3	972	5380	3	972				
LNAV MDA	5500	1 1/4	1092	5500	1 1/2	1092	5500	3	1092	5500	3	1092				
CIRCLING	5500	1 1/4	1085	5500	1 1/2	1085	6460	3	2045	6460	3	2045				

CHANGES - REASONS

- MAGVAR WAS UPDATED FROM 16E/1985 TO 13E/2020 AND RUNWAY RENUMBERED FROM 34R TO 35R, ALL REFERENCES ON FORM UPDATED, AND ALL MAGNETIC COURSES AND TRACKS UPDATED - MAGVAR OUT OF TOLERANCE.
- ADDED NEW IAF FROM TARVR TO SPOON - FPT/ATC REQUEST.
- REMOVED ASTERISK FROM PROFILE LINE 4 AT 6660 - NO LONGER REQUIREMENT IAW 8260.191 8-6-7D.
- CHANGED PBN REQUIREMENTS NOTE: FROM RNP APCH TO RNP APCH - GPS - IAW 8260.191 8-6-8B(2).
- CHART NOTE: CIRCLING RWY 7 NA AT NIGHT CHANGED TO RWY 8 - RUNWAY RENUMBERED DUE TO MAGVAR UPDATE.
- ADDITIONAL FLIGHT DATA: REMOVED *LNAV ONLY - NO LONGER REQUIREMENT IAW 8260.191 8-6-7D.
- ADDITIONAL FLIGHT DATA: 7:1 OBST CHANGED FROM 6200 AAO AND 5320 AAO TO CHART 5215 POLE 392333N/1194706W - NEW OBSTACLE EVALUATION RESULTS.
- ADDITIONAL FLIGHT DATA: VDP CHANGED FROM 2.79 TO 2.50 - UPDATED TARGETS PROCEDURE EVALUATION RESULTS.
- ALTERNATE MINS FOR CAT A AND B CHANGED FROM 1200-4 TO 1100-4 - HIGHEST HAT UNDER 1100.
- ADDITIONAL FLIGHT DATA: ADDED CHART MANDATORY 14000 AT TARVR - ATC REQUEST TO TIE INTO THE TARVR STAR.

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA **OTHER:** ZOA, RNO APP CON, RNO ATCT, AMGR, NV AERO

FLIGHT CHECKED BY

PENDING

OFFICE

DATE

Digitally signed by
DAVID TEFFETELLER
Aug 18, 2022

DEVELOPED BY

RICHARD CHRISTENSEN

Digitally signed by
RICHARD E CHRISTENSEN

Aug 11, 2022

OFFICE

AJV-A431

DATE

07/07/2022

APPROVED BY

JOHNNIE BAKER

Digitally signed by
ERIC N SUSKI

Aug 17, 2022

OFFICE

AJV-A430

DATE

TITLE
MANAGER

