

U.S. 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				MISSED APPROACH			
FROM	TO	COURSE AND DISTANCE	ALTITUDE	MAP: DA			
FMG VORTAC (IAF) (40V)(43A)	TIPYO (TF) (FB)(RNP 2.00) (40E)	221.34/28.30	13000	CLIMB TO 10000 VIA 344.11 TRACK TO TAKLE AND HOLD, CONTINUE CLIMB IN HOLD TO 10000.			
TIPYO (40E)	JOPKO (RF)(FB)(RNP 2.00)(40E)	(12.00 NM RADIUS CCW ZUGEK)/31.96	13000				
COLOM (IAF) (40E)(43A)	JOPKO (TF)(FB)(RNP 2.00)(40E)	067.89/40.87	13000	ADDITIONAL FLIGHT DATA: HOLD N, RT, 164.12 INBOUND CHART FAS OBST: 4510 TREE 392829N/1194616W CHART FAS OBST: 5027 TWR 392821N/1194529W DISTANCE TO THLD FROM 361 HAT: 0.99 NM			
JOPKO (40E)	JIVOR (RF)(FB)(RNP 2.00)(40E)	(12.00 NM RADIUS CCW ZUGEK)/8.34	13000				
SPOOK (IAF) (40E)(43A)	JIVOR (TF)(FB)(RNP 2.00)(40E)	028.35/28.09	13000	ROUTE TYPE : A, R ROUTE TYPE QUALIFIER 1: P ROUTE TYPE QUALIFIER 2: S			
JIVOR (40E)	SPOON (RF)(FB)(RNP 1.00)(40E)	(12.00 NM RADIUS CCW ZUGEK)/9.35	11000				
SPOON (IAF) (40E)(43A)	MASUE (TF)(FB)(RNP 1.00) (40E)(43I)	344.15/5.72	8100	#TCH 4455.1 MSL (DO NOT CHART)			
MASUE (IF) (40E)(43I)	LANBE (TF)(FB) (RNP 0.50) (40E)(42S)	344.09/7.43	7400				

1. PT NA SIDE OF COURSE OUTBOUND FT WITHIN        MILES OF        (IAF)  
2. PROFILE STARTS AT MASUE  
3. FAC: 344.12 FAF:        DIST FAF TO MAP:        THLD:         
4. MIN. ALT: MASUE 8100, LANBE 7400  
5. DIST TO THLD FROM OM: 7.22 MM:        IM:        150 HAT:        100 HAT:        GS ANT:         
6. MIN GS INCPT: 6800 GS ALT AT: GUKCE 6800 OM:        MM:        IM:         
7. GS ANGLE: 3.00 TCH: 44.8# 34:1 IS NOT CLEAR  
8. MSA FROM: RW34L 12000

MAG VAR: 16E EPOCH YEAR: 1985

**MINIMUMS**

TAKEOFF:	STANDARD	X	SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N A	X										
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

**SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED**

	4771	1	361	4771	1	361	4771	1	361	4771	1	361			
RNP 0.12 DA*															
RNP 0.30 DA	5342	2 3/4	932	5342	2 3/4	932	5342	2 3/4	932	5342	2 3/4	932			

NOTES: CHART NOTES: GPS REQUIRED. FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -13C (8F) OR ABOVE 40C (104F). FOR INOPERATIVE MALSR INCREASE VISIBILITY RNP 0.12 TO 1 1/4 MILE AND RNP 0.30 TO 4 MILES. VISIBILITY REDUCTION BY HELICOPTERS NA. \* MISSED APPROACH REQUIRES MINIMUM CLIMB OF 243 FEET PER NM TO 7200. CHART PLANVIEW NOTE AT FMG VORTAC, COLOM, AND SPOOK: RF REQUIRED. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. (CONT'D)

CITY AND STATE	ELEVATION: 4415 TDZE: 4410	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
RENO, NV	AIRPORT NAME: RENO/TAHOE INTL	RNAV	SEP 25 2008 RNAV (RNP) Z RWY 34L, ORIG	AMDT: NONE
				DATE

QUALITY  
CHECKED

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV

## STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES TITLE 14 CFR PART 97.33

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TERMINAL ROUTES (CONT'D)

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
LANBE (40E)(42S)	GUKCE (TF)(FB) (RNP 0.30)(40E)(43F)	344.12/2.35	6800
GUKCE (FAF) (40E)(43F)	RW34L (TF)(FO) (40G)(41Y)(43M)	344.12/7.22	
RW34L (MAP) (40G)(41Y)(43M)	TAKLE (TF)(FO) (RNP 1.00)(40E)(41E)(43H)	344.11/12.63	10000

NOTES CONT'D

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT COLOM VIA V6 SOUTHWEST BOUND AND V332 NORTHWEST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON FMG VORTAC AIRWAY RADIALS 167 CW 241.

CITY AND STATE

RENO, NV

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4415 TDZE:

AIRPORT NAME:

RENO/TAHOE INTL

4410

FACILITY

IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

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RNAV (RNP) Z RWY 34L, ORIG

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NONE

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