

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29**

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> ILS OR LOC RWY 35L | <u>ORIGINAL/AMENDMENT</u> 1 | <u>CITY</u> RENO | <u>STATE</u> NV | | |
| <u>AIRPORT ELEVATION</u> 4415 | <u>TDZE</u> 4410 | <u>SUPERSEDED</u> ILS OR LOC/DME RWY 34L | <u>ORIGINAL/AMENDMENT</u> ORIG-C | <u>DATED</u> 02/01/2018 | <u>MAG VAR</u> 13E | <u>EPOCH YEAR</u> 2020 |
| <u>FACILITY</u> I-AGY | <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> | | |

TERMINAL ROUTES

| FROM | FIX TYPE | TO | FIX TYPE | LEG TYPE | FO/FB | RNP | COURSE | DISTANCE | ALTITUDE |
|-----------------------------|----------|---------------------------|----------|----------|-------|-----|--------|--------------|----------|
| FMG VORTAC | | APIME INT/I-AGY 18.99 DME | | | | | 178.99 | 20.56 | 10800 |
| SWR VOR/DME | | APIME INT/I-AGY 18.99 DME | | | | | 070.96 | 23.33 | 11500 |
| VIKES/SWR 32.40 DME | | WAGGE/I-AGY 15.28 DME | | | | | 242.00 | 8.59 (SWR) | 11000 |
| WAGGE/I-AGY 15.28 DME | | APIME INT/I-AGY 18.99 DME | | | | | 167.12 | 3.71 (I-AGY) | 10800 |
| SPOON/I-AGY 24.54 DME/RADAR | IAF | APIME INT/I-AGY 18.99 DME | NOPT | | | | 347.12 | 5.55 (I-AGY) | 10500 |
| APIME INT/I-AGY 18.99 DME | IF/IAF | WAGGE/I-AGY 15.28 DME | | | | | 347.12 | 3.71 (I-AGY) | 9400 |
| WAGGE/I-AGY 15.28 DME | | ZONVI/I-AGY 13.81 DME | | | | | 347.12 | 1.47 (I-AGY) | 8700 |
| ZONVI/I-AGY 13.81 DME | | EPOSE/I-AGY 11.76 DME | | | | | 347.12 | 2.05 | 8200 |

MISSED APPROACH

MAP:

ILS: DA
LOC: RW35L OR AT I-AGY 1.82 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 11000 ON HEADING 350.00 AND ON FMG VORTAC R-332 TO PYRAM INT/FMG 22.19 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 11000.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 10000 ON HEADING 347.12, EXPECT RADAR VECTORS.



PROFILE:

- 1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
- 2. HOLD S APIME, RT, 347.12 INBOUND, 10800 FT. IN LIEU OF PT (IAF), MAX 14000.
- 3. **FAF:** 347.12 **FAF:** EPOSE/I-AGY 11.76 DME **DIST FAF TO MAP:** **DIST FAF TO THLD:** 9.94
- 4. **MIN ALT:** APIME INT/I-AGY 18.99 DME 10500, WAGGE/I-AGY 15.28 DME 9400, ZONVII/I-AGY 13.81 DME 8700, EPOSE/I-AGY 11.76 DME 8200, CALEG/I-AGY 8.31 DME 6860, DUYEP/I-AGY 5.39 DME 5800
- 5. **DIST TO THLD FROM OM:** 9.94 **MM:** **IM:** **150 HAT:** **GS ANT:** 880
- 6. **MIN GS INCPT:** 8200 **GS ALT AT PFAF :** EPOSE/I-AGY 11.76 DME 8200 **OM:** **MM:** **IM:**
- 7. **GS ANGLE:** 3.54 **34:1:** **20:1:** **TCH:** 51.3
- 8. **MSA FROM:** FMG VORTAC 130-250 12000, 250-350 10000, 350-130 9600

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART NOTE: CIRCLING RWY 8 NA AT NIGHT.
 CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY.
 CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 152.00 INBOUND.
 CHART FAS OBST: 4703 TERRAIN (32-055794) 392712N/1194600W.
 CHART 4716 TREE 392543N/1194654W.
 5880 TERRAIN 392222N/1194648W.
 CHART VDP AT 3.51 DME
 DISTANCE VDP TO THLD 1.69 NM.

MINIMUMS:

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

ALTERNATE: NA ILS: 700-2; LOC: CAT A, B 1000-2, CAT C 2100-3

| 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 |
| S-ILS 35L | 5062 | 1 1/2 | 652 | 5062 | 1 1/2 | 652 | 5062 | 1 1/2 | 652 | | NA | | | | |
| S-LOC 35L | 5120 | 1 | 710 | 5120 | 1 | 710 | 5120 | 2 | 710 | | NA | | | | |
| CIRCLING | 5340 | 1 1/4 | 925 | 5340 | 1 1/4 | 925 | 6460 | 3 | 2045 | | NA | | | | |



CHANGES - REASONS

1. ZONVI FIX ADDED AS AN INTERMEDIATE STEPDOWN - REQUIRED FOR OBSTACLE CLEARANCE IN INTERMEDIATE.
2. THREE DEGREES ADDED TO I-AGY COURSES - THREE DEGREE DECREASE IN AIRPORT MAGNETIC VARIATION.
3. RUNWAY CHANGED FROM 34L TO 35L - THREE DEGREE DECREASE IN AIRPORT MAGNETIC VARIATION.
4. ILS DA/HAT CHANGED FROM 4946/536 TO 5062/652 - NEW CONTROLLING OBSTACLE.
5. CIRCLING CAT C MDA/HAA CHANGED FROM 5340/925 TO 6460/2045, VISIBILITY CHANGED FROM 2 3/4 TO 3 SM - NEW RADIUS APPLIED.
6. ALTERNATE MINIMUMS CHANGED FROM ILS:CAT A, B 1000-2, CAT C 1000-2 3/4; LOC: CAT A, B 1000-2, CAT C 1000-2 3/4 TO ILS: 700-2; LOC: CAT A, B 1000-2, CAT C 2100-3 - NEW MINIMA.
7. INCORPORATED CHANGES FROM PREVIOUS P-NOTAMS INTO AMDT 1.
8. TERMINAL ROUTES FMG VORTAC TO APIME AND WAGGE TO APIME ALTITUDES CHANGED FROM 10500 TO 10800 - HIL ALTITUDE CHANGED FROM 10500 TO 10800.
9. PROFILE LINE 2. CHANGED HIL ALTITUDE FROM 10500 TO 10800 AND ADDED MAX 14000 - REQUIRED FOR OBSTACLE CLEARANCE.
10. PROFILE LINE 4. CALEG CHANGED FROM I-AGY 8.00 TO I-AGY 8.31, MIN ALT CHANGED FROM 6800 TO 6860 - FIX MOVED FOR OBSTACLE CLEARANCE.
- 11.FAF (EPOSE) DME CHANGED FROM 11.80 TO 11.76, GS INTCP ALT CHANGED FROM 8300 TO 8200 - CHART CORRECTION.
12. CHART NOTE: CIRCLING RWY 7 NA AT NIGHT CHANGED TO RWY 8 - RUNWAY RENUMBERED DUE TO MAGVAR UPDATE.
13. PROFILE LINE 4: DUYEP CHANGED FROM I-AGY 5.40 TO 5.39 - I-AGY DME COORDS UPDATED.
14. FAS OBST CHANGED FROM 4702 GROUND TO 4703 TERRAIN (32-055794) - NEW SURVEY.
15. VDP CHANGED FROM 3.81 DME/VDP TO THLD 1.99 TO 3.51 DME/DIST VDP TO THLD 1.69 - CHART CORRECTION.
16. EQUIPEMENT REQUIREMENTS NOTE: ADDED DME REQUIRED - REQUIRED FOR PROCEDURE.
17. REMOVED "INT" FROM WAGGE FIX DESCRIPTION - NO INTERSECTION FIX USED.
18. PROFILE LINE 2: DIST FAF TO THLD CHANGED FROM 9.98 TO 9.94 - CHART CORRECTION.
19. PROFILE LINE 7: TCH CHANGED FROM 51.2 TO 51.3 - AIRNAV ILS DESIGN TCH.

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** ZOA, AIRPORT MANAGER, RNO APP CON, RNO ATCT

FLIGHT CHECKED BY

PENDING

OFFICE

DATE

Digitally signed by
DAVID TEFFETELLER
Sep 07, 2022

DEVELOPED BY

FRANK MOORE

Digitally signed by
FRANK MOORE

OFFICE

AJV-A433

DATE

07/05/2022

APPROVED BY

JOHNNIE BAKER

Aug 22, 2022

OFFICE

AJV-A430

DATE

Digitally signed by
DAVID TEFFETELLER
Sep 07, 2022

TITLE
MANAGER

