

**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.

|                                 |  |  |  |                           |
|---------------------------------|--|--|--|---------------------------|
| <b>AIRPORT ID</b><br>HAO        | <b>PROCEDURE NAME</b><br>RNAV (GPS) RWY 30 | <b>ORIGINAL/AMENDMENT</b><br>2B        | <b>CITY</b><br>HAMILTON                      | <b>STATE</b><br>OH        |
| <b>AIRPORT ELEVATION</b><br>632 | <b>TDZE</b><br>619                         | <b>SUPERSEDED</b><br>RNAV (GPS) RWY 29 | <b>DATED</b><br>11/30/2023                   | <b>MAG VAR</b><br>6W      |
| <b>FACILITY</b><br>RNAV         | <b>COORDINATES OF FACILITIES</b>           | <b>ACTUAL EFFECTIVE DATE</b>           | <b>REQUIRED EFFECTIVE DATE</b><br>04/17/2025 | <b>EPOCH YEAR</b><br>2025 |
|                                 |  |  | <b>CANCEL/SUSPEND</b>                        |                           |

**TERMINAL ROUTES**

| FROM                  | FIX TYPE | TO                    | FIX TYPE | LEG TYPE | FO/FB | RNP  | COURSE | DISTANCE | ALTITUDE |
|-----------------------|----------|-----------------------|----------|----------|-------|------|--------|----------|----------|
| CINPA                 |          | BRNIE                 |          | TF       | FO    | 1.00 | 167.05 | 22.65    | 3000     |
| BRNIE                 | IF/IAF   | HOLGR                 |          | TF       | FB    | 1.00 | 296.58 | 8.13     | 2600     |
| HOLGR                 | FAF      | PUNUE/3.30 NM TO RW30 |          | TF       | FB    | 0.30 | 296.46 | 2.78     |          |
| PUNUE/3.30 NM TO RW30 |          | RW30                  | MAP      | TF       | FO    | 0.30 | 296.46 | 3.30     |          |
| RW30                  | MAP      | 819 MSL               |          | CA       |       |      | 296.46 |          |          |
| 819 MSL               |          | MONTR                 |          | DF       | FO    | 1.00 |        |          | 2700     |

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW30

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2700 DIRECT MONTR AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

- PT
- SIDE OF COURSE** OUTBOUND
- FT WITHIN** MILES OF (IAF)
- HOLD SE BRNIE, RT, 296.58 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.
- FAC:** 296.46 **FAF:** HOLGR **DIST FAF TO MAP:** 6.08 **DIST FAF TO THLD:** 6.08
- MIN ALT:** BRNIE 3000, HOLGR 2600, PUNUE/3.30 NM TO RW30 1700
- DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **200 HAT:** 0.48 **GS ANT:**
- MIN GP INCPT:** 2600 **GP ALT AT FAF:** HOLGR 2600 **OM:** **MM:** **IM:**
- GP ANGLE:** 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 45.6
- MSA FROM:** RW30 3100



**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

**NOTES:**

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18°C OR ABOVE 54°C.  
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV.

**ADDITIONAL FLIGHT DATA:**

HOLD NW, RT, 116.23 INBOUND.  
FAS OBST: 829 TREE 392213N/0843055W.  
CHART VDP AT 1.29 NM TO RW30.  
WAAS CHANNEL # 61300  
REFERENCE PATH ID: W30A  
LTP HAE: 155 M

**MINIMUMS:**

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

**ALTERNATE:** NA  STANDARD - CAT D 1200-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.

| <b>CATEGORY:</b>  | <b>A</b>      |            |                | <b>B</b>      |            |                | <b>C</b>      |            |                | <b>D</b>      |            |                | <b>E</b>      |            |                |
|-------------------|---------------|------------|----------------|---------------|------------|----------------|---------------|------------|----------------|---------------|------------|----------------|---------------|------------|----------------|
| <b>FINAL TYPE</b> | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> |
| LPV DA            | 819           | 3/4        | 200            | 819           | 3/4        | 200            | 819           | 3/4        | 200            | 819           | 3/4        | 200            |               |            |                |
| LNAV/VNAV DA      | 1080          | 1 1/8      | 461            | 1080          | 1 1/8      | 461            | 1080          | 1 1/8      | 461            | 1080          | 1 1/8      | 461            |               |            |                |
| LNAV MDA          | 1080          | 3/4        | 461            | 1080          | 3/4        | 461            | 1080          | 1 1/8      | 461            | 1080          | 1 1/8      | 461            |               |            |                |
| CIRCLING          | 1280          | 1          | 648            | 1280          | 1          | 648            | 1300          | 1 3/4      | 668            | 1760          | 3          | 1128           |               |            |                |

**CHANGES - REASONS**

1. PROCEDURE NAME CHANGED FROM RNAV (GPS) RWY 29 TO RNAV (GPS) RWY 30 - RUNWAY NUMBERS CHANGING FROM 29 TO 30
2. UPDATED MAGVAR/EPOCH YEAR FROM 5W/2000 TO 6W/2025 - UPDATED MAGVAR
3. TERMINAL ROUTES - UPDATED CINPA TO BRNIE COURSE FROM 166.05 TO 167.05 - UPDATED MAGVAR
4. TERMINAL ROUTES - UPDATED BRNIE TO HOLGR COURSE FROM 295.58 TO 296.58 - UPDATED MAGVAR
5. TERMINAL ROUTES - UPDATED ALL 295.46 COURSES TO 296.46 - UPDATED MAGVAR
6. ADDITIONAL FLIGHT DATA – REMOVED “CHART CIRCLING ICON – IAW MEMO 279
7. MAP - LNAV CHANGED FROM RW29 TO RW30 - RUNWAY NUMBERS CHANGING FROM 29 TO 30
8. PROFILE LINE 2 - UPDATED HOLDING COURSE FROM 295.57 TO 296.58 - UPDATED MAGVAR & CORRECTED ROUNDING ERROR
9. PROFILE - UPDATED FAC FROM 295.46 TO 296.46 - UPDATED MAGVAR
10. PROFILE - MSA FROM UPDATED FROM RW29 TO RW30 - RUNWAY NUMBERS CHANGING FROM 29 TO 30
11. PROFILE LINE 4 - UPDATED RW29 TO RW30 - RUNWAY NUMBERS CHANGING FROM 29 TO 30
12. ADDITIONAL FLIGHT DATA - CHANGED VDP RWY FROM RW29 TO RW30 - RUNWAY NUMBERS CHANGING FROM 29 TO 30
13. ADDITIONAL FLIGHT DATA - REFERENCE PATH ID CHANGED FROM RW29 TO RW30 - RUNWAY NUMBERS CHANGING FROM 29 TO 30
14. FAS DATA – FAS DATA BLOCK INFORMATION: CRC REMAINDER CHANGED FROM DFB19324 TO C87AE085 – RUNWAY CHANGED FROM RW29 TO RW30 AND REFERENCE PATH IDENTIFIER (APPROACH ID) CHANGED FROM W29A TO W30A
15. ADDITIONAL FLIGHT DATA - REMOVED NOTE "1020 AAO 392049N/0842615W" - IAW 8260.19J PARA 8-6-11E.(2) MEMO

02/06/2025: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 12/17/2024.  
ADDITIONAL FLIGHT DATA: REMOVED CHART CIRCLING ICON NOTE.



AIRPORT ID  
HAO

PROCEDURE NAME  
RNAV (GPS) RWY 30

ORIGINAL/AMENDMENT  
2B

CITY  
HAMILTON

STATE  
OH

COORDINATED WITH:

A4A  ALPA  AOPA  APA  HAI  NBAA

OTHER: ZID, CVG APP CON, DAY APP CON, AMGR

FLIGHT CHECKED BY

PENDING

*Digitally signed by*  
**CASIMIR L TABAKA**  
Dec 17, 2024

OFFICE

DATE

DEVELOPED BY

JOSEPH BLANCO

*Digitally signed by*  
**JOSEPH A BLANCO**  
Dec 03, 2024

OFFICE

AJV-A432

DATE

10/01/2024

APPROVED BY

BEV L BORDY

*Digitally signed by*  
**CASIMIR L TABAKA**  
Dec 17, 2024

OFFICE

AJV-A430

DATE

TITLE  
MANAGER

FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|--|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KHAO          |
| RUNWAY                                   | RW30          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W30A          |
| LTP/FTP LATITUDE                         | 392140.0730N  |
| LTP/FTP LONGITUDE                        | 0843046.1755W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +01550        |
| FPAP LATITUDE                            | 392211.1130N  |
| FPAP LONGITUDE                           | 0843233.8775W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00045.6       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 106.75        |
| LENGTH OFFSET                            | 1072          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 35.0          |

CRC REMAINDER

C87AE085

ADDITIONAL PATH POINT RECORD INFORMATION

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K5     |
| LTP ORTHOMETRIC HEIGHT  | +01886 |
| FPAP ORTHOMETRIC HEIGHT | +01886 |



**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

|                          |  |                       |                         |                    |                                 |                         |
|--------------------------|--|-----------------------|-------------------------|--------------------|---------------------------------|-------------------------|
| <u>AIRPORT ID</u><br>HAO | <u>PROCEDURE NAME</u><br>RNAV (GPS) RWY 30 | <u>AMDT NO.</u><br>2B | <u>CITY</u><br>HAMILTON | <u>STATE</u><br>OH | <u>AIRPORT ELEVATION</u><br>632 | <u>FACILITY</u><br>RNAV |
|--------------------------|--|-----------------------|-------------------------|--------------------|---------------------------------|-------------------------|

**PART A: OBSTRUCTION DATA SEGMENTS**

**FEEDER**

|                      |                    |
|----------------------|--------------------|
| <b>FROM</b><br>CINPA | <b>TO</b><br>BRNIE |
|----------------------|--------------------|

|                    |                          |            |            |            |             |
|--------------------|--------------------------|------------|------------|------------|-------------|
| <u>RNP</u><br>1.00 | <u>DISTANCE</u><br>22.65 | <u>PAT</u> | <u>MAP</u> | <u>HAT</u> | <u>HMAS</u> |
|--------------------|--------------------------|------------|------------|------------|-------------|

| OBSTRUCTION         | COORDINATES            | ELEV MSL  | HORZ | VERT | AC | ROC  | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|---------------------|------------------------|-----------|------|------|----|------|-----|----|------|-------------|---------|
| ANTENNA (39-092571) | 393058.56N/0842104.42W | 1404      | 20   | 10   | 1B | 1000 |     |    |      | AT596       | 3000    |
| TERRAIN             | 393606.00N/0842454.00W | 938 (900) |      |      |    |      |     |    |      | AS1500      | 2400    |

**COMPUTATIONS**

|            |             |             |            |             |           |           |            |                      |             |                |                               |
|------------|-------------|-------------|------------|-------------|-----------|-----------|------------|----------------------|-------------|----------------|-------------------------------|
| <u>ALT</u> | <u>KIAS</u> | <u>KTAS</u> | <u>HAA</u> | <u>VKTW</u> | <u>TR</u> | <u>BA</u> | <u>DTA</u> | <u>COURSE CHANGE</u> | <u>DVEB</u> | <u>VEB OCS</u> | <u>RF CENTER FIX/DISTANCE</u> |
|------------|-------------|-------------|------------|-------------|-----------|-----------|------------|----------------------|-------------|----------------|-------------------------------|

**SEGMENT REMARKS:**

**INTERMEDIATE**

|                               |                    |
|-------------------------------|--------------------|
| <b>FROM</b><br>BRNIE (IF/IAF) | <b>TO</b><br>HOLGR |
|-------------------------------|--------------------|

|                    |                         |            |            |            |             |
|--------------------|-------------------------|------------|------------|------------|-------------|
| <u>RNP</u><br>1.00 | <u>DISTANCE</u><br>8.13 | <u>PAT</u> | <u>MAP</u> | <u>HAT</u> | <u>HMAS</u> |
|--------------------|-------------------------|------------|------------|------------|-------------|

| OBSTRUCTION       | COORDINATES            | ELEV MSL   | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS  | MIN ALT |
|-------------------|------------------------|------------|------|------|----|-----|-----|----|------|--------------|---------|
| TOWER (39-000020) | 392111.00N/0841931.00W | 1568       | 100  | 20   | 3C | 500 |     |    |      | SA-297 AT829 | 2600    |
| TERRAIN           | 391912.00N/0842203.00W | 967 (1000) |      |      |    |     |     |    |      | AS1500       | 2500    |

**COMPUTATIONS**

|            |             |             |            |             |           |           |            |                      |             |                |                               |
|------------|-------------|-------------|------------|-------------|-----------|-----------|------------|----------------------|-------------|----------------|-------------------------------|
| <u>ALT</u> | <u>KIAS</u> | <u>KTAS</u> | <u>HAA</u> | <u>VKTW</u> | <u>TR</u> | <u>BA</u> | <u>DTA</u> | <u>COURSE CHANGE</u> | <u>DVEB</u> | <u>VEB OCS</u> | <u>RF CENTER FIX/DISTANCE</u> |
|------------|-------------|-------------|------------|-------------|-----------|-----------|------------|----------------------|-------------|----------------|-------------------------------|

**SEGMENT REMARKS:**



**AIRPORT ID**  
HAO

**PROCEDURE NAME**  
RNAV (GPS) RWY 30

**AMDT NO.**  
2B

**CITY**  
HAMILTON

**STATE**  
OH

**AIRPORT ELEVATION**  
632

**FACILITY**  
RNAV

**FINAL: LPV**

**FROM**  
HOLGR

**TO**  
RW30

**RNP**  
0.30

**DISTANCE**  
6.08

**PAT**

**MAP**  
DA

**HAT**  
200

**HMAS**

| <b>OBSTRUCTION</b> | <b>COORDINATES</b> | <b>ELEV MSL</b> | <b>HORZ</b> | <b>VERT</b> | <b>AC</b> | <b>ROC</b> | <b>OCS</b> | <b>CG</b> | <b>CGTA</b> | <b>ADJUSTMENTS</b> | <b>MIN ALT</b> |
|--------------------|--------------------|-----------------|-------------|-------------|-----------|------------|------------|-----------|-------------|--------------------|----------------|
|                    |                    |                 |             |             |           |            | ASC        |           |             |                    | 819            |

**COMPUTATIONS**

**ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**

**FINAL: LNAV/VNAV**

**FROM**  
HOLGR

**TO**  
RW30

**RNP**  
0.30

**DISTANCE**  
6.08

**PAT**

**MAP**  
DA

**HAT**  
461

**HMAS**

| <b>OBSTRUCTION</b> | <b>COORDINATES</b>     | <b>ELEV MSL</b> | <b>HORZ</b> | <b>VERT</b> | <b>AC</b> | <b>ROC</b> | <b>OCS</b> | <b>CG</b> | <b>CGTA</b> | <b>ADJUSTMENTS</b> | <b>MIN ALT</b> |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|------------|-----------|-------------|--------------------|----------------|
| TREE               | 392150.35N/0842901.47W | 849             | 50          | 20          | 2C        |            | 23.63:1    |           |             | AC20 SA-20         | 1080           |

**COMPUTATIONS**

**ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**

LNAV/VNAV MINIMUMS LOWERED TO MATCH LNAV MINIMUMS PER 8260.58B 3-3-5.



**AIRPORT ID**  
HAO

**PROCEDURE NAME**  
RNAV (GPS) RWY 30

**AMDT NO.**  
2B

**CITY**  
HAMILTON

**STATE**  
OH

**AIRPORT ELEVATION**  
632

**FACILITY**  
RNAV

**FINAL: LNAV**

**FROM**  
HOLGR

**TO**  
PUNUE/3.30 NM TO RW30

**RNP**  
0.30

**DISTANCE**  
2.78

**PAT**

**MAP**

**HAT**

**HMAS**

| <b>OBSTRUCTION</b> | <b>COORDINATES</b>     | <b>ELEV MSL</b> | <b>HORZ</b> | <b>VERT</b> | <b>AC</b> | <b>ROC</b> | <b>OCS</b> | <b>CG</b> | <b>CGTA</b> | <b>ADJUSTMENTS</b>     | <b>MIN ALT</b> |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|------------|-----------|-------------|------------------------|----------------|
| AAO                | 392015.00N/0842245.00W | 1090            | 164         | 98          | 4E        | 250        |            |           |             | AC98 RA60 XL4<br>DG198 | 1700           |

**COMPUTATIONS**

**ALT      KIAS      KTAS      HAA      VKTW      TR      BA      DTA      COURSE CHANGE      DVEB      VEB OCS      RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**

**FINAL: LNAV STEPDOWN**

**FROM**  
PUNUE/3.30 NM TO RW30

**TO**  
RW30

**RNP**  
0.30

**DISTANCE**  
3.30

**PAT**

**MAP**  
RW30

**HAT**  
461

**HMAS**

| <b>OBSTRUCTION</b> | <b>COORDINATES</b>     | <b>ELEV MSL</b> | <b>HORZ</b> | <b>VERT</b> | <b>AC</b> | <b>ROC</b> | <b>OCS</b> | <b>CG</b> | <b>CGTA</b> | <b>ADJUSTMENTS</b> | <b>MIN ALT</b> |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|------------|-----------|-------------|--------------------|----------------|
| TREE               | 392213.44N/0843054.67W | 829             | 50          | 20          | 2C        | 250        |            |           |             |                    | 1080           |

**COMPUTATIONS**

**ALT      KIAS      KTAS      HAA      VKTW      TR      BA      DTA      COURSE CHANGE      DVEB      VEB OCS      RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**



**AIRPORT ID**  
HAO

**PROCEDURE NAME**  
RNAV (GPS) RWY 30

**AMDT NO.**  
2B

**CITY**  
HAMILTON

**STATE**  
OH

**AIRPORT ELEVATION**  
632

**FACILITY**  
RNAV

**HOLD-IN-LIEU OF PT**

**FROM**  
BRNIE **TO**  
P-5

RNP DISTANCE PAT MAP HAT HMAS  
P-5

| <u>OBSTRUCTION</u> | <u>COORDINATES</u>     | <u>ELEV MSL</u> | <u>HORZ</u> | <u>VERT</u> | <u>AC</u> | <u>ROC</u> | <u>OCS</u> | <u>CG</u> | <u>CGTA</u> | <u>ADJUSTMENTS</u> | <u>MIN ALT</u> |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|------------|-----------|-------------|--------------------|----------------|
| TOWER (39-002039)  | 391423.64N/0840658.62W | 1370            | 50          | 20          | 2C        | 1000       |            |           |             | AT630              | 3000           |
| TERRAIN            | 391630.00N/0840039.00W | 958 (1000)      |             |             |           |            |            |           |             | AS1500             | 2500           |

**COMPUTATIONS**

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

**SEGMENT REMARKS:**

**MISSED APPROACH: LPV**

**FROM**  
DA **TO**  
MONTR

RNP DISTANCE PAT MAP HAT HMAS  
0.30-1.00 654

| <u>OBSTRUCTION</u> | <u>COORDINATES</u>     | <u>ELEV MSL</u> | <u>HORZ</u> | <u>VERT</u> | <u>AC</u> | <u>ROC</u> | <u>OCS</u> | <u>CG</u> | <u>CGTA</u> | <u>ADJUSTMENTS</u> | <u>MIN ALT</u> |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|------------|-----------|-------------|--------------------|----------------|
|                    |                        |                 |             |             |           |            | ASC        |           |             |                    | 2700           |
| TOWER (39-002770)  | 392609.18N/0844023.52W | 1381            | 50          | 20          | 2C        | 1000       |            |           |             |                    | 2400           |
| TERRAIN            | 392718.00N/0844309.00W | 974 (1000)      |             |             |           |            |            |           |             | AS1500             | 2500           |

**COMPUTATIONS**

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

**SEGMENT REMARKS:**



**AIRPORT ID**  
HAO

**PROCEDURE NAME**  
RNAV (GPS) RWY 30

**AMDT NO.**  
2B

**CITY**  
HAMILTON

**STATE**  
OH

**AIRPORT ELEVATION**  
632

**FACILITY**  
RNAV

**MISSED APPROACH: LNAV/VNAV**

**FROM**  
DA **TO**  
MONTR

**RNP**  
0.30-1.00

**DISTANCE**

**PAT**

**MAP**

**HAT**

**HMAS**  
919

| <b>OBSTRUCTION</b> | <b>COORDINATES</b>     | <b>ELEV MSL</b> | <b>HORZ</b> | <b>VERT</b> | <b>AC</b> | <b>ROC</b> | <b>OCS</b> | <b>CG</b> | <b>CGTA</b> | <b>ADJUSTMENTS</b> | <b>MIN ALT</b> |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|------------|-----------|-------------|--------------------|----------------|
|                    |                        |                 |             |             |           |            | ASC        |           |             |                    | 2700           |
| TOWER (39-002770)  | 392609.18N/0844023.52W | 1381            | 50          | 20          | 2C        | 1000       |            |           |             |                    | 2400           |
| TERRAIN            | 392718.00N/0844309.00W | 974 (1000)      |             |             |           |            |            |           |             | AS1500             | 2500           |

**COMPUTATIONS**

**ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**

**MISSED APPROACH: LNAV**

**FROM**  
RW30 **TO**  
MONTR

**RNP**  
0.30-1.00

**DISTANCE**

**PAT**

**MAP**

**HAT**

**HMAS**  
980

| <b>OBSTRUCTION</b> | <b>COORDINATES</b>     | <b>ELEV MSL</b> | <b>HORZ</b> | <b>VERT</b> | <b>AC</b> | <b>ROC</b> | <b>OCS</b> | <b>CG</b> | <b>CGTA</b> | <b>ADJUSTMENTS</b> | <b>MIN ALT</b> |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|------------|-----------|-------------|--------------------|----------------|
|                    |                        |                 |             |             |           |            | ASC        |           |             |                    | 2700           |
| TOWER (39-002770)  | 392609.18N/0844023.52W | 1381            | 50          | 20          | 2C        | 1000       |            |           |             |                    | 2400           |
| TERRAIN            | 392718.00N/0844309.00W | 974 (1000)      |             |             |           |            |            |           |             | AS1500             | 2500           |

**COMPUTATIONS**

**ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**





**AIRPORT ID**  
HAO

**PROCEDURE NAME**  
RNAV (GPS) RWY 30

**AMDT NO.**  
2B

**CITY**  
HAMILTON

**STATE**  
OH

**AIRPORT ELEVATION**  
632

**FACILITY**  
RNAV

**CIRCLING**     ALL CATS     CAT A     CAT B     CAT C     CAT D     CAT E     NOT AUTHORIZED

| <b>OBSTRUCTION</b> | <b>COORDINATES</b>     | <b>RADIUS</b> | <b>HAA</b> | <b>ELEV MSL</b> | <b>HORZ</b> | <b>VERT</b> | <b>AC</b> | <b>ROC</b> | <b>OCS</b> | <b>ADJUSTMENTS</b> | <b>MIN ALT</b> |
|--------------------|------------------------|---------------|------------|-----------------|-------------|-------------|-----------|------------|------------|--------------------|----------------|
| CATEGORY A         |                        |               |            |                 |             |             |           |            |            |                    |                |
| TOWER              | 392231.81N/0843027.18W | 1.30          | 648        | 930             | 250         | 50          | 4D        | 300        |            | AC50               | 1280           |
| CATEGORY B         |                        |               |            |                 |             |             |           |            |            |                    |                |
| TOWER (39-003545)  | 392312.00N/0843025.00W | 1.83          | 648        | 947             | 50          | 20          | 2C        | 300        |            | XP20               | 1280           |
| CATEGORY C         |                        |               |            |                 |             |             |           |            |            |                    |                |
| TREE               | 391847.71N/0843048.76W | 2.87          | 668        | 999             | 50          | 20          | 2C        | 300        |            |                    | 1300           |
| CATEGORY D         |                        |               |            |                 |             |             |           |            |            |                    |                |
| TOWER (39-000062)  | 391841.70N/0843045.85W | 3.76          | 1128       | 1404            | 250         | 50          | 4D        | 300        |            | AC50               | 1760           |

**CIRCLING REMARKS:**

XP20: TO RAISE CAT B MDA TO 1280.

**MSA**

**CENTER**  
RW30

**RADIUS**  
25

| <b>SECTOR</b> | <b>OBSTRUCTION</b> | <b>COORDINATES</b>     | <b>BEARING</b> | <b>DISTANCE</b> | <b>ELEV MSL</b> | <b>HORZ</b> | <b>VERT</b> | <b>AC</b> | <b>ROC</b> | <b>OCS</b> | <b>ADJUSTMENTS</b> | <b>MIN ALT</b> |
|---------------|--------------------|------------------------|----------------|-----------------|-----------------|-------------|-------------|-----------|------------|------------|--------------------|----------------|
| 360-360       | TWR (39-001362)    | 394328.61N/0841517.58W | 034            | 24.9            | 2049            | 100         | 20          | 3C        | 1000       |            |                    | 3100           |

**MSA REMARKS:**

**NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:**

CIRCLING CAT A TOWER REF 2021-AGL-10816-OE.



**AIRPORT ID**  
HAO

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**PART B: SUPPLEMENTAL DATA**

**COMMUNICATIONS WITH**

CVG APP CON, ZID ARTCC

| <u>WX SERVICE</u> | <u>LOCATION</u> | <u>HRS OPERATION</u> | <u>ALTIMETER SOURCE</u> | <u>DISTANCE</u> | <u>WMSCR</u> | <u>ADJUSTMENTS</u> |
|-------------------|-----------------|----------------------|-------------------------|-----------------|--------------|--------------------|
| ASOS              | HAO             | 24                   | HAO                     | 0               | Y            | 0                  |

| <u>BACK-UP WX SERVICE</u> | <u>LOCATION</u> | <u>HRS OPERATION</u> | <u>ALTIMETER SOURCE</u> | <u>DISTANCE</u> | <u>WMSCR</u> | <u>ADJUSTMENTS</u> |
|---------------------------|-----------------|----------------------|-------------------------|-----------------|--------------|--------------------|
| ASOS                      | LUK             | 24                   | LUK                     | 16.22           | Y            | 60                 |

**WX REMARKS:**

RASS PRESSURE PATTERNS THE SAME  
KHAO 632, KLUK 476  
RA = 59.2.

| <u>PRIMARY NAVAID</u> | <u>MONITOR POINT</u> | <u>HRS OPERATION</u> | <u>CAT</u> |
|-----------------------|----------------------|----------------------|------------|
|-----------------------|----------------------|----------------------|------------|

| <u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>               | <u>RUNWAY MARKINGS</u> | <u>RUNWAY VISUAL RANGE</u> |
|--|------------------------|----------------------------|
| RW12 - REIL (PCL), MIRL (PCL), PAPI-4L (PCL)             | NPI-P                  |                            |
| RW30 - MALS (PCL), MIRL (PCL), REIL (PCL), PAPI-4L (PCL) | PIR-P                  |                            |

| <u>GLIDESLOPE ANGLE</u> | <u>ELEV RWY THRESHOLD</u> | <u>TCH</u> | <u>ELEV GS ANTENNA</u> | <u>DISTANCE FROM RWY</u> | <u>VGSI ANGLE</u> | <u>TCH</u> |
|-------------------------|---------------------------|------------|------------------------|--------------------------|-------------------|------------|
| 3.00                    | 618.9                     | 45.6       |                        |                          | 3.00              | 47.3       |

**FINAL APPROACH COURSE AIMING**

|                  |                                     |                    |                              |
|------------------|-------------------------------------|--------------------|------------------------------|
| RUNWAY THRESHOLD | <input checked="" type="checkbox"/> | FT FROM THRESHOLD  | DISPLACED THRESHOLD DISTANCE |
| ON CENTERLINE    | <input checked="" type="checkbox"/> | FT FROM CENTERLINE |                              |

**CRITICAL TEMPERATURES**

| <u>CRITICAL LOW</u> | <u>CRITICAL HIGH</u> | <u>ACT</u> | <u>APT ISA</u> |
|---------------------|----------------------|------------|----------------|
| -18C                | +54C                 | -18C       | +13.75C        |

**CRITICAL TEMPERATURE REMARKS:**

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2017-2021).  
CRITICAL LOW TEMPERATURE BASED ON ACT.  
DESCENT RATE (FPM): STANDARD TEMP 963 HIGH TEMP 1270.

**"VISUAL PORTION OF FINAL" PENETRATIONS**



**AIRPORT ID**  
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**HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS**

and/or

**5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS**

**PENETRATIONS REMARKS:**

**PART C: GENERAL REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TAA AND STANDARD "T" NOT DEVELOPED PER FPT REQUEST.

VEGETATION HEIGHT 100 FT PER FPT.

FOR CONTINGENCY PURPOSES: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LUK ALTIMETER SETTING: INCREASE LPV DA TO 879 FEET; INCREASE LNAV/VNAV DA TO 1140 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 60 FEET AND VISIBILITY LNAV CATS C/D 1/8 SM AND CIRCLING CAT C 1/4 SM.  
FOR INOPERATIVE ALS WHEN USING LUK ALTIMETER SETTING, INCREASE LNAV/VNAV VISIBILITY ALL CATS TO 1 3/4 SM.  
WHEN USING LUK ALTIMETER SETTING, INOPERATIVE TABLE DOES NOT APPLY TO LPV.  
BARO-VNAV AND VDP NA WHEN USING LUK ALTIMETER SETTING.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1020 AAO 392049.30N/0842614.99W.  
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

**PART D: AIRSPACE**

**DOCKET #**

**ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE**

|                        |       |  |        |
|------------------------|-------|--|--------|
| <b>DISTANCE FROM</b>   | THLD  | <b>TO 1000FT POINT</b>                 | 3.88   |
| <b>WIDTH OF</b>        | FINAL | <b>SEGMENT AT 1000FT POINT</b>         | 1.20   |
| <b>TRUE COURSE OF</b>  | FINAL | <b>SEGMENT CONTAINING 1000FT POINT</b> | 290.46 |
| <b>HIGH TERRAIN IN</b> | FINAL | <b>SEGMENT CONTAINING 1000FT POINT</b> | 900    |
| <b>DISTANCE FROM</b>   | THLD  | <b>TO 1500FT POINT</b>                 | 5.68   |
| <b>WIDTH OF</b>        | FINAL | <b>SEGMENT AT 1500FT POINT</b>         | 1.76   |
| <b>TRUE COURSE OF</b>  | FINAL | <b>SEGMENT CONTAINING 1500FT POINT</b> | 290.46 |
| <b>HIGH TERRAIN IN</b> | FINAL | <b>SEGMENT CONTAINING 1500FT POINT</b> | 900    |

**THRESHOLD COORDINATES (IF STR-IN)** 392140.07N/0843046.18W  
**ARP COORDINATES** 392149.50N/0843119.00W  
**RUNWAY APCH END AND DIST FURTHEST FROM ARP** RUNWAY 12 DISTANCE 0.45 NM  
**FAF COORDINATES** 391932.74N/0842325.66W  
**FIX NAME COORDINATES**

**REMARKS**

NO ADDITIONAL AIRSPACE REQUIRED.

**PART E: PREPARED BY**

**NAME**  
JOSEPH BLANCO

**OFFICE**  
AJV-A432

**DATE**  
10/01/2024

**TITLE**  
AERONAUTICAL INFORMATION SPECIALIST

