

**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> 119	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 36	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> DELPHI	<u>STATE</u> IN		
<u>AIRPORT ELEVATION</u> 671	<u>TDZE</u> 671	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u> 5W	<u>EPOCH YEAR</u> 2025
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> CONCURRENT WITH 20-AGL-31	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 275/30 CW 095/30	NOPT	OCUPA	IF/IAF	3000
2. 095/30 CW 275/30		OCUPA	IF/IAF	3000

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
OCUPA	IF/IAF	LAYNA		TF	FB	1.00	004.53	6.00	2300
LAYNA	FAF	SELOY/1.48 NM TO RW36		TF	FB	0.30	004.53	3.49	
SELOY/1.48 NM TO RW36		RW36	MAP	TF	FO	0.30	004.53	1.48	
RW36	MAP	948 MSL		CA			004.53		
948 MSL		MOOMO		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW36

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT MOOMO AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



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COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: ZAU, AMGR

FLIGHT CHECKED BY

OFFICE

DATE

DEVELOPED BY

RICHARD CHRISTENSEN

Digitally signed by
RICHARD E CHRISTENSEN
Nov 29, 2022

OFFICE

AJV-A431

DATE

09/14/2022

APPROVED BY

JOHNNIE BAKER

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	119
RUNWAY	RW36
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W36A
LTP/FTP LATITUDE	403207.1535N
LTP/FTP LONGITUDE	0864053.0645W
LTP/FTP ELLIPSOIDAL HEIGHT	+01705
FPAP LATITUDE	403336.3105N
FPAP LONGITUDE	0864054.0310W
THRESHOLD CROSSING HEIGHT (TCH)	00046.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	BFC16FD9

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02046
FPAP ORTHOMETRIC HEIGHT	+02046



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

<u>AIRPORT ID</u> 119	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 36	<u>AMDT NO.</u> ORIG	<u>CITY</u> DELPHI	<u>STATE</u> IN	<u>AIRPORT ELEVATION</u> 671	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM 275/30 CW 095/30 **TO** OCUPA

RNP DISTANCE PAT MAP HAT HMAS

<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 (18-000459)	402321.00N/0863650.00W	1557	500	50	5D	1000				AT443	3000
TERRAIN	395648.00N/0863612.00W	984 (1000)								AS1500	2500

COMPUTATIONS

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

SEGMENT REMARKS:

STRAIGHT-IN AREA

FROM 095/30 CW 275/30 **TO** OCUPA

RNP DISTANCE PAT MAP HAT HMAS

<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 (18-000459)	402321.00N/0863650.00W	1557	500	50	5D	1000				AT443	3000
TERRAIN	402254.00N/0861448.00W	902 (900)								AS1500	2400

COMPUTATIONS

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

SEGMENT REMARKS:



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FINAL: LNAV/VNAV

FROM LAYNA **TO** RW36

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
4.97 DA 418

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (18-056518)	403106.46N/0864016.47W	786	20	3	1A		23.41:1			RA27	1089

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV

FROM LAYNA **TO** SELOY/1.48 NM TO RW36

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
3.49

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	402757.91N/0864053.82W	880	50	20	2C	250				RA47	1180

COMPUTATIONS

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

SEGMENT REMARKS:



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MISSED APPROACH : LPV

FROM DA **TO** MOOMO

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
734

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TOWER (18-001116)	404008.00N/0864144.00W	1169	500	50	5D	1000					2200
TERRAIN	404342.00N/0864336.00W	718 (700)								AS1500	2200

COMPUTATIONS

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

SEGMENT REMARKS:

MISSED APPROACH : LNAV/VNAV

FROM DA **TO** MOOMO

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
920

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TOWER (18-001116)	404008.00N/0864144.00W	1169	500	50	5D	1000					2200
TERRAIN	404342.00N/0864336.00W	718 (700)								AS1500	2200

COMPUTATIONS

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

SEGMENT REMARKS:



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MISSED APPROACH : LNAV

FROM
RW36 **TO**
MOOMO

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
953

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TOWER (18-001116)	404008.00N/0864144.00W	1169	500	50	5D	1000					2200
TERRAIN	404342.00N/0864336.00W	718 (700)								AS1500	2200

COMPUTATIONS

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

SEGMENT REMARKS:

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

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TREE (18-056619)	403111.95N/0864012.75W	1.30	469	799	20	3	1A	300		RA27	1140
CATEGORY B											
ANTENNA (18-056495)	403414.90N/0864053.85W	1.83	549	874	20	3	1A	300		RA27	1220

CIRCLING REMARKS:

CENTER **RADIUS**

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



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PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
AWOS-3P	KMCX	24	KMCX	10.99	Y	27
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS	KLAF	24	KLAF	14.01	Y	42

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
K119 671.1, KMCX 678.5
RA = 26.1

RASS PRESSURE PATTERNS THE SAME
K119 671.1, KLAF 605.9
RA = 41.4

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW18 - MIRL (PCL), REIL (PCL), PAPI-2L	BSC-G	
RW36 - MIRL (PCL), REIL (PCL), PAPI-2L	BSC-G	

<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	671.1	46.1			3.00	46.1

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>
-16C	+54C	-16C	+13.67C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 716 HIGH TEMP 1134.



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"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	CIRCLING RWY18	
20:1		
686 TRAVERSE WAY (18-056563) 403249.84N/0864055.65W (9.16)	685 TRAVERSE WAY (18-056553) 403249.85N/0864051.51W (8.24)	
685 TRAVERSE WAY (18-056620) 403249.86N/0864052.41W (8.16)	685 TRAVERSE WAY (18-056638) 403249.85N/0864054.61W (8.14)	
685 TRAVERSE WAY (18-056617) 403249.86N/0864053.64W (8.12)	677 SIGN (18-056662) 403249.43N/0864055.53W (2.24)	
Final Type	LPV, LNAV/VNAV, LNAV RWY36	
34:1		
697 POLE (18-056575) 403157.95N/0864056.63W (4.46)	694 POLE (18-056513) 403158.00N/0864052.67W (1.53)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

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PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - REMOTE PRIMARY ALTIMETER.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

100 VEGETATION USED PER FPT.

CONTINGENCY NOTES:

WHEN WHITE COUNTY ALTIMETER SETTING NOT RECEIVED, USE LAFAYETTE ALTIMETER SETTING AND INCREASE LPV DA TO 964 FEET; INCREASE LNAV/VNAV DA TO 1105 FEET AND ALL VISIBILITIES 1/8 SM, INCREASE ALL MDAS 20 FEET.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



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PART D: AIRSPACE

DOCKET # 20-AGL-31

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

DISTANCE FROM	THLD	TO 1000FT POINT	3.09
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	359.53
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	700
DISTANCE FROM	THLD	TO 1500FT POINT	4.77
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	359.53
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	700

**THRESHOLD
COORDINATES
(IF STR-IN)** 403207.15N/0864053.06W

ARP COORDINATES 403226.92N/0864053.28W

**RUNWAY APCH END
AND DIST FURTHEST
FROM ARP** RUNWAY 36 DISTANCE 0.33 NM

**FAF
COORDINATES** 402708.75N/0864049.83W

**FIX NAME
COORDINATES**

REMARKS



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PART E: PREPARED BY

NAME
RICHARD CHRISTENSEN

OFFICE
AJV-A431

DATE
09/14/2022

TITLE
AERONAUTICAL INFORMATION SPECIALIST

