

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
LOC STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.25**

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> FOA	<u>PROCEDURE NAME</u> LOC RWY 21	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> FLORA	<u>STATE</u> IL
<u>AIRPORT ELEVATION</u> 473	<u>TDZE</u> 470	<u>SUPERSEDED</u> LOC RWY 21	<u>DATED</u> 07/14/2022	<u>MAG VAR</u> 1W
<u>FACILITY</u> RTT	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2000
				<u>CANCEL/SUSPEND</u>

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
BIB VORTAC	IAF	LASDE/I-RTT 12.09 DME/RADAR	NOPT				124.14	8.85	2200
LASDE/I-RTT 12.09 DME/RADAR	IF/IAF	NEDGE/I-RTT 5.98 DME					210.65 (I-RTT)	6.11	2100

MISSED APPROACH

MAP:

I-RTT 0.99 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 2300 DIRECT BIB VORTAC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- | | | | | | |
|---|----------------------------------|-------------------------|--------------------------|-----------------|-------|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) |
| 2. HOLD NE LASDE/I-RTT 12.09 DME/RADAR, RT, 210.65 INBOUND, 2200 IN LIEU OF PT (IAF), MAX 4900. | | | | | |
| 3. FAC: 210.65 | FAF: NEDGE/I-RTT 5.98 DME | DIST FAF TO MAP: | DIST FAF TO THLD: | 4.99 | |
| 4. MIN ALT: LASDE/I-RTT 12.09 DME/RADAR 2200 | | | | | |
| 8. MSA FROM: BIB VORTAC 2500 | | | | | |



EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.
RADAR REQUIRED FOR PROCEDURE ENTRY AT LASDE

NOTES:

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: CIRCLING NA TO RWYS 15 AND 33.
CHART NOTE: VDP NA WHEN USING OLY ALTIMETER SETTING.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON BIB VORTAC AIRWAY RADIALS 067 CW 076.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE OLY ALTIMETER SETTING AND INCREASE ALL MDAS 40 FEET AND CIRCLING VISIBILITY CAT C 1/4 SM.

ADDITIONAL FLIGHT DATA:

FAS OBS: 657 AAO 384421N/0882445W
CHART: RED HILLS MOA
HOLD S, LT, 341.02 INBOUND.
CHART VDP AT 2.33 DME.
DISTANCE VDP TO THLD 1.34 NM.
NEDGE TO RW21: 3.00/44.

MINIMUMS:

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

ALTERNATE: NA

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
S-21	920	1	450	920	1	450	920	1 3/8	450		NA					
CIRCLING	940	1	467	940	1	467	1120	1 3/4	647		NA					

CHANGES - REASONS

TERMINAL ROUTES: CHANGED INTERMEDIATE: IF/IAF LASDE/I-RTT DISTANCE CHANGED FROM FROM 10.99 TO 12.09 - PER FPT REQUEST, LASDE MOVED 1 NM NORTHEAST.
TERMINAL ROUTES: CHANGED FINAL: FAF NEDGE/I-RTT DISTANCE FROM 5.99 TO 5.98 - PER FPT REQUEST, NEDGE MOVED 46 FT NORTHEAST.
TERMINAL ROUTES: INITIAL SEGMENT DISTANCE FROM BIB VORTAC CHANGED FROM 9.06 TO 8.85 - CHANGED DUE TO INTERMEDIATE FIX (LASDE) MOVE.
TERMINAL ROUTES:INTERMEDIATE SEGMENT DISTANCE CHANGED FROM 5.00 TO 6.11, COURSE CHANGED FROM 210.64 TO 210.65 - CHANGED DUE TO INTERMEDIATE MOVE.
TERMINAL ROUTES: FINAL SEGMENT DISTANCE CHANGED FROM 5.00 TO 4.99, COURSE CHANGED FROM 210.64 TO 210.65 - CHANGED DUE TO FAF MOVE.
EQUIPMENT REQUIREMENT NOTES: ADDED " RADAR REQUIRED FOR PROCEDURE ENTRY AT LASDE" -- IAW 8260.19J, PARA 8-6-9A.
CHART NOTE: CHANGED FROM " PROCEDURE NA FOR ARRIVALS AT BIB VORTAC ON V221 WESTBOUND" TO " PROCEDURE NA FOR ARRIVAL ON BIB VORTAC AIRWAY RADIALS 067 CW 076." - IAW 8260.19J PARA 8-2-5 E(2).
PROFILE: LINE 2 CHANGE COURSE FROM 210.64 TO 210.65 - INTERMEDIATE (LASDE) AND FAF (NEDGE) CHANGED LOCATION.
PROFILE: LINE 2 CHANGED MAX FIX ALTITUDE FROM 5000 TO 4900 - PER FPT REQUEST. 5000 EXCEEDS FACILITY SERVICE VOLUME.
PROFILE: LINE 3 CHANGED FAC FROM 210.64 TO 210.65 - NEW TARGETS EVAL.
PROFILE: LINE 3 CHANGED FAF FROM NEDGE/I-RTT 5.99 TO 5.98 - FAF (NEDGE) MOVED.
PROFILE: LINE 3 CHANGED DIST FAF TO THLD FROM 5.00 TO 4.99 - FAF (NEDGE) MOVED.
PROFILE: LINE EIGHT MSA ALTITUDE CHANGED FROM 2600 TO 2500 - PER UPDATED OBSTACLE EVALUATION.
ADDITIONAL FLIGHT DATA: REMOVE "CHART IN PLANVIEW AT LASDE: BIB 9.1 DME" - IAW 8260.3G 2-9-3 A.
ADDITIONAL FLIGHT DATA: ADDED CHART: ROSE HILL MOA - PER FPT REQUEST
ADDITIONAL FLIGHT DATA: REMOVE "CHART CIRCLING ICON" - AS DIRECTED BY MANAGEMENT.
MINIMUMS: LOWERED CIRCLING CMDA CATS B FROM 1120 TO 940 - NEW TARGETS EVALUATION.
MINIMUMS: LOWERED CIRCLING CMDA CATS C FROM 1160 TO 1120 - NEW CONTROLLING OBSTACLE.
ALL REFERENCE TO "LASDE/I-RTT 10.99 DME HAS BEEN CHANGED TO "LASDE/I-RTT 10.99 DME/RADAR" - ATC REQUEST FOR PROCEDURE ENTRIES AT LASDE.



COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA **OTHER:** ZKC ARTCC, AMGR.

FLIGHT CHECKED BY

SCOTT WIEBE

Digitally signed by

ALLAN WILL

Mar 06, 2026

OFFICE

AJF

DATE

01/07/2026

DEVELOPED BY

LIAM DONAHUE (BYRON STUBBLEFIELD)

Digitally signed by

ALLAN WILL

Mar 06, 2026

OFFICE

AJV-A33

DATE

05/01/2025

APPROVED BY

KYLE THOMPSON

Digitally signed by

ALLAN WILL

Mar 06, 2026

OFFICE

AJV-A33

DATE

TITLE
MANAGER



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

<u>AIRPORT ID</u> FOA	<u>PROCEDURE NAME</u> LOC RWY 21	<u>AMDT NO.</u> 1	<u>CITY</u> FLORA	<u>STATE</u> IL	<u>AIRPORT ELEVATION</u> 473	<u>FACILITY</u> RTT
--------------------------	-------------------------------------	----------------------	----------------------	--------------------	---------------------------------	------------------------

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM BIB VORTAC	TO LASDE/I-RTT 12.09 DME/RADAR
---------------------------	--

<u>RNP</u>	<u>DISTANCE</u> 8.85	<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 (17-022662)	385143.42N/0882359.33W	818	250	50	4D	1000				AT382	2200
TERRAIN	385803.00N/0882557.00W	567 (600)								AS1500	2100

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

FROM LASDE/I-RTT 12.09 DME/RADAR (IF/IAF)	TO NEDGE/I-RTT 5.98 DME
---	-----------------------------------

<u>RNP</u>	<u>DISTANCE</u> 6.11	<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 (17-022662)	385143.42N/0882359.33W	818	250	50	4D	500				AT782	2100
TERRAIN	385136.00N/0882427.00W	511 (500)								AS1500	2000

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
FOA

PROCEDURE NAME
LOC RWY 21

AMDT NO.
1

CITY
FLORA

STATE
IL

AIRPORT ELEVATION
473

FACILITY
RTT

FINAL

FROM
NEDGE/I-RTT 5.98 DME

TO
I-RTT 0.99 DME

RNP

DISTANCE
4.99

PAT

MAP
I-RTT 0.99 DME

HAT
450

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>
AAO	384421.00N/0882445.00W	657	215	8	4B	250					920

COMPUTATIONS

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

SEGMENT REMARKS:

HOLD-IN-LIEU OF PT

FROM
LASDE/I-RTT 12.09 DME/RADAR

TO
P-6

RNP

DISTANCE

PAT
P-6

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>
STACK (17-000868)	385606.00N/0881625.00W	1075	500	125	5E	1000				AT125	2200
TERRAIN	385603.00N/0881739.00W	593 (600)								AS1500	2100

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
FOA

PROCEDURE NAME
LOC RWY 21

AMDT NO.
1

CITY
FLORA

STATE
IL

AIRPORT ELEVATION
473

FACILITY
RTT

MISSED APPROACH

FROM
I-RTT 0.99 DME

TO
BIB VORTAC

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
670

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2300
TOWER (17-001391)	384105.84N/0883319.90W	1030	250	50	4D	1000					2100
TERRAIN	385609.00N/0883833.00W	570 (600)								AS1500	2100

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											
TANK (17-002726)	384016.00N/0882745.00W	1.30	467	635	50	20	2C	300			940
CATEGORY B											
TOWER (17-003749)	383937.00N/0882929.00W	1.82	467	636	50	20	2C	300			940
CATEGORY C											
TOWER (17-000645)	384042.00N/0882914.00W	2.86	647	768	500	50	5D	300		AC50	1120

CIRCLING REMARKS:

MSA

CENTER **RADIUS**
BIB VORTAC 25



SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (17-000499)	385019.00N/0880747.00W	103	17.2	1450	250	50	4D	1000			2500

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

AIRPORT ID
FOA

PROCEDURE NAME
LOC RWY 21

AMDT NO.
1

CITY
FLORA

STATE
IL

AIRPORT ELEVATION
473

FACILITY
RTT

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZKC ARTCC, STL FSS

WX SERVICE
AWOS-3

LOCATION
FOA

HRS OPERATION
24

ALTIMETER SOURCE
FOA

DISTANCE
0

WMSCR
Y

ADJUSTMENTS
0

BACK-UP WX SERVICE
AWOS-3

LOCATION
OLY

HRS OPERATION
24

ALTIMETER SOURCE
OLY

DISTANCE
13.41

WMSCR
Y

ADJUSTMENTS
33

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KFOA 473, KOLY 482
RA = 32.3.

PRIMARY NAVAID
RTT

MONITOR POINT
INTERNAL

HRS OPERATION
24

CAT
3

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW33		
RW15		
RW21 - MIRL (PCL), REIL (PCL), PVASI-PSIL (PCL)	NPI-F	
RW03 - MIRL (PCL), PVASI-PSIL (PCL)	NPI-G	

GLIDESLOPE ANGLE

ELEV RWY THRESHOLD

TCH

ELEV GS ANTENNA

DISTANCE FROM RWY

VGSI ANGLE
3.00

TCH
25.3

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD
ON CENTERLINE

FT FROM THRESHOLD
FT FROM CENTERLINE

DISPLACED THRESHOLD DISTANCE

CRITICAL TEMPERATURES

CRITICAL LOW


CRITICAL HIGH

ACT

APT ISA

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	LOC		
34:1			
519 TREE (17-035292) 384028.18N/0882643.94W (6.98)		537 TREE (17-034476) 384031.71N/0882636.06W (6.76)	
526 TREE (17-035291) 384030.72N/0882642.61W (5.87)		522 TREE (17-034475) 384030.45N/0882644.23W (4.44)	
518 TREE (17-034473) 384031.16N/0882645.98W (0.62)			

PENETRATIONS REMARKS:

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

RWY 15/33 TURF RWY NO LIGHTS

PRECIPITOUS TERRAIN EVALUATION COMPLETED
100' VEGETATION USED PER FPT REQUEST

NOTE: BACKUP SECONDARY ALTIMETER SETTING NOTES ON THE PROCEDURE -- PER ATC REQUEST

CAT A-C ONLY DUE TO AIRPORT INFRASTRUCTURE.

RUNWAY HAS NO PARALLEL TAXIWAY.

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

DISTANCE FROM	THLD	TO 1000FT POINT	2.99
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.87
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	209.65
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	500
DISTANCE FROM	THLD	TO 1500FT POINT	4.79
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.25
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	209.65
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	500

THRESHOLD COORDINATES (IF STR-IN)

384012.78N/0882654.32W

ARP COORDINATES

383953.96N/0882711.20W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

RUNWAY 3 DISTANCE 0.44 NM

FAF COORDINATES

384433.35N/0882344.97W

FIX NAME COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.



PART E: PREPARED BY

NAME

LIAM DONAHUE (BYRON STUBBLEFIELD)

OFFICE

AJV-A33

DATE

05/01/2025

TITLE

AERONAUTICAL INFORMATION SPECIALIST

AIRPORT ID
FOA

PROCEDURE NAME
LOC RWY 21

AMDT NO.
1

CITY
FLORA

STATE
IL

AIRPORT ELEVATION
473

FACILITY
RTT

