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.

AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
1B9	RNAV (GPS) Z RWY 14	2	MANSFIELD	MA

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
123	121	RNAV (GPS) Z RWY 14	1	06/12/2025	16W	1995

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV			ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
WOONS	IAF	FENIP		TF	FB	1.00	052.71	9.99	3000
WHYBE	IAF	FENIP		TF	FB	1.00	185.27	10.36	3000
HOTVU	IAF	FENIP		TF	FB	1.00	228.50	5.00	3000
FENIP	IF	STIME		TF	FB	1.00	138.47	4.99	2000
STIME	FAF	JOMGO/1.38 NM TO RW14		TF	FB	0.30	138.53	2.80	
JOMGO/1.38 NM TO RW14		RW14	MAP	TF	FO	0.30	138.53	1.38	
RW14	MAP	700 MSL		CA			138.53		700
700 MSL		BURDY		DF	FO	1.00			2000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW14

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 700 THEN CLIMBING LEFT TURN TO 2000 DIRECT BURDY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. **PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
2. PROFILE STARTS AT FENIP
3. **FAC:** 138.53 **FAF:** STIME **DIST FAF TO MAP:** 4.18 **DIST FAF TO THLD:** 4.18
4. **MIN ALT:** FENIP 3000, STIME 2000, JOMGO/1.38 NM TO RW14 780
5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **365 HAT:** 0.70 **GS ANT:**
6. **MIN GP INCPT:** 2000 **GP ALT AT PFAF:** STIME 2000 **OM:** **MM:** **IM:**
7. **GP ANGLE:** 4.10 **34:1:** IS NOT CLEAR **20:1:** IS NOT CLEAR **TCH:** 60.0
8. **MSA FROM:** RW14 2600

QUALITY 21 CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 4 AND 22.
CHART NOTE: RWY 14 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.
CHART NOTE: BARO-VNAV NA WHEN USING OWD ALTIMETER SETTING.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WOONS ON V3 AND T224 SOUTHWEST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WHYBE ON V1 AND T303 NORTHEAST BOUND.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE OWD ALTIMETER SETTING: INCREASE LPV DA TO 523 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 557 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 40 FEET.
CHART NOTE: STRAIGHT-IN AND CIRCLING RWY 14 NA AT NIGHT.

ADDITIONAL FLIGHT DATA:

HOLD N, LT, 192.02 INBOUND.
CHART FAS OBST: 251 TREE (25-043818) 420101N/0711346W.
WAAS CHANNEL # 90444
REFERENCE PATH ID: W14A
LTP HAE: 8 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

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
LPV DA	486	1	365	486	1	365		NA			NA				
LNAV/VNAV DA	520	1 1/8	399	520	1 1/8	399		NA			NA				
LNAV MDA	520	1	399	520	1	399		NA			NA				
CIRCLING	600	1	477	600	1	477		NA			NA				

CHANGES - REASONS

1. TERMINAL ROUTES, FENIP TO STIME: DELETED “PFAF” FROM “TO” FIX TYPE - NOT REQUIRED.
2. TERMINAL ROUTES, RW14 TO 700 MSL: DELETED 1.00 FROM RNP VALUE - NOT REQUIRED.
3. PROFILE LINE 5: CHANGED “395 HAT: 0.77” TO “365 HAT: 0.70” - DATA CORRECTION, LPV HAT IS UNCHANGED AT 365.
4. PROFILE LINE 7: CHANGED 20:1 FROM “CLEAR” TO “NOT CLEAR” - NEW 20:1 PENETRATIONS.
5. NOTES: CHANGED “RWY 14 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED” TO “RWY 14 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED” - 20:1 PENETRATIONS.
6. NOTES: CHANGED “BARO-VNAV AND VDP NA WHEN USING OWD ALTIMETER SETTING” TO “BARO-VNAV NA WHEN USING OWD ALTIMETER SETTING” - VDP NO LONGER AUTHORIZED, 20:1 PENETRATIONS.
7. NOTES: CHANGED “WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE OWD ALTIMETER SETTING: INCREASE LPV DA TO 553 FEET AND ALL VISIBILITIES 1/8 SM, INCREASE LNAV/VNAV DA
TO 566 FEET AND ALL VISIBILITIES 1/4 SM, AND INCREASE ALL MDAS 40 FEET” TO “WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE OWD ALTIMETER SETTING: INCREASE LPV DA TO 523 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 557 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 40 FEET” - NEW EVALUATION AND MINOR REFORMATTING.
8. NOTES: DELETED “PROCEDURE NA AT NIGHT” AND REPLACED WITH “STRAIGHT-IN AND CIRCLING RWY 14 NA AT NIGHT” - RWY 14 HAS 20:1 PENETRATIONS, BUT RWY 32 DOES NOT AND CAN STLL BE USED AT NIGHT.
9. ADDITIONAL FLIGHT DATA: DELETED “CHART VDP AT 0.78 NM TO RW14: - VDP NO LONGER AUTHORIZED, 20:1 PENETRATIONS.
10. ADDITIONAL FLIGHT DATA: DELETED “CHART CIRCLING ICON” - NO LONGER REQUIRED, IFP GROUP MEMO, REMOVAL OF CIRCLING ICONS.
11. MINIMUMS: LOWERED LNAV/VNAV DA/HAT FROM 529/408 TO 520/399 - DA LOWERED TO MATCH LNAV MDA, 8260.58D PARA 3-3-5 AND IFP GROUP MEMO, LOWERING LPV AND LNAV/VNAV MINIMUMS TO LNAV MINIMUMS.

QUALITY 21 CHECKED

AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
1B9	RNAV (GPS) Z RWY 14	2	MANSFIELD	MA

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZBW, BOS APP CON, BDR FSS, AMGR

FLIGHT CHECKED BY	*Digitally signed by* ***RAKE MCGRAW*** Jul 10, 2026	**OFFICE**	**DATE**
KEVIN RIESE		AJF	02/10/2026
DEVELOPED BY	*Digitally signed by* ***RAKE MCGRAW*** Jul 10, 2026	**OFFICE**	**DATE**
RICHARD BRUCE		AJV-A422	01/14/2026
APPROVED BY	*Digitally signed by* ***RAKE MCGRAW*** Jul 10, 2026	**OFFICE**	**DATE** / **TITLE**
BEV L BORDY		AJV-A420	MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	1B9
RUNWAY	RW14
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	420006.7055N
LTP/FTP LONGITUDE	0711201.4320W
LTP/FTP ELLIPSOIDAL HEIGHT	+00080
FPAP LATITUDE	415918.6870N
FPAP LONGITUDE	0711020.7605W
THRESHOLD CROSSING HEIGHT (TCH)	00060.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	04.10
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1840
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	384268A7

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00368
FPAP ORTHOMETRIC HEIGHT	+00368

QUALITY 21 CHECKED

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

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
1B9	RNAV (GPS) Z RWY 14	2	MANSFIELD	MA	123	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM	TO
WOONS	FENIP

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	9.99				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (44-000006)	415943.33N/0712651.96W	792	100	20	3C	1000				AT1208	3000
TERRAIN	415942.00N/0712706.00W	551 (600)								AS1500	2100

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM	TO
WHYBE	FENIP

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	10.36				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (25-000354)	421449.00N/0712526.00W	716	250	50	4D	1000				AT1284	3000
TERRAIN	421251.00N/0712636.00W	442 (400)								AS1500	1900

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY 21 CHECKED

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
1B9	RNAV (GPS) Z RWY 14	2	MANSFIELD	MA	123	RNAV

INITIAL

FROM
HOTVU

TO
FENIP

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	5.00				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	420354.00N/0712312.00W	637	215	8	4B	1000				AT1363	3000
TERRAIN	420557.00N/0712312.00W	400 (400)								AS1500	1900

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM
FENIP

TO
STIME

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	4.99				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	420312.00N/0712324.00W	683	215	8	4B	500					1200
TERRAIN	420312.00N/0712327.00W	482 (500)								AS1500	2000

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY 21 CHECKED

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
1B9	RNAV (GPS) Z RWY 14	2	MANSFIELD	MA	123	RNAV

FINAL: LPV

FROM	TO
STIME	RW14

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	4.18		DA	365	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (25-045696)	420022.32N/0711227.08W	229	20	3	1A		24.88:1			MA89	486

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM	TO
STIME	RW14

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	4.18		DA	399	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE	420051.00N/0711236.00W	242	215	8	4B		17.12:1			XP-9 AC8	520

COMPUTATIONS

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

SEGMENT REMARKS:

LNAV/VNAV, XP -9: DA LOWERED TO MATCH LNAV MDA, 8260.58D PARA 3-3-5 AND IFP GROUP MEMO, LOWERING LPV AND LNAV/VNAV MINIMUMS TO LNAV MINIMUMS.

QUALITY 21 CHECKED

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
1B9	RNAV (GPS) Z RWY 14	2	MANSFIELD	MA	123	RNAV

FINAL: LNAV

FROM	TO
STIME	JOMGO/1.38 NM TO RW14

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	2.80				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	420230.00N/0711518.00W	486	215	8	4B	250				RA40	780

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM	TO
JOMGO/1.38 NM TO RW14	RW14

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	1.38		RW14	399	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (25-043818)	420100.93N/0711346.43W	251	20	3	1A	250					520

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY 21 CHECKED

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
1B9	RNAV (GPS) Z RWY 14	2	MANSFIELD	MA	123	RNAV

MISSED APPROACH: LPV

FROM	TO
DA	BURDY

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30-1.00					220

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (25-041139)	420021.83N/0711229.57W	226	20	3	1A		ASC				2000
TOWER (25-000615)	420038.00N/0710240.00W	605	250	50	4D	1000					1700
TERRAIN	420054.00N/0710836.00W	187 (200)								AS1500	1700

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	TO
DA	BURDY

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30-1.00					378

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2000
TOWER (25-000615)	420038.00N/0710240.00W	605	250	50	4D	1000					1700
TERRAIN	420054.00N/0710836.00W	187 (200)								AS1500	1700

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY 21 CHECKED

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
1B9	RNAV (GPS) Z RWY 14	2	MANSFIELD	MA	123	RNAV

MISSED APPROACH: LNAV

FROM	TO
RW14	BURDY

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30-1.00					420

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2000
TOWER (25-000615)	420038.00N/0710240.00W	605	250	50	4D	1000					1700
TERRAIN	420054.00N/0710836.00W	187 (200)								AS1500	1700

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	415930.00N/0711315.00W	1.30	477	288	215	8	4B	300			600
CATEGORY B											
TOWER (25-024615)	415949.40N/0710914.30W	1.81	477	294	20	3	1A	300			600

CIRCLING REMARKS:

MSA

CENTER	RADIUS
RW14	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (25-000622)	420310.71N/0714904.37W	293	27.8	1571	20	3	1A	1000			2600

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

BOS APP CON, BDR FSS, ZBW ARTCC

QUALITY 21 CHECKED

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
1B9	RNAV (GPS) Z RWY 14	2	MANSFIELD	MA	123	RNAV

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
AWOS-3PT	1B9	24	1B9		Y	0

BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	OWD	24	OWD	11.43	Y	37

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME.
1B9 123, OWD 49.
RA = 36.7.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW22		
RW04		
RW14 - MIRL (PCL)	BSC-G	
RW32 - MIRL (PCL), PAPI-4L (PCL)	NPI-G	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
4.10	120.6	60.0				

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	[X]	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE 509
ON CENTERLINE	[X]	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
-15C	+54C	-15C	+14.76C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 971 HIGH TEMP 1125.

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RWY 14, LPV, LNAV/VNAV, AND LNAV:
20:1	
215 TREE (25-044162) 420015.55N/0711222.17W (14.33)	181 TREE (25-037782) 420014.80N/0711212.59W (12.85)
215 TREE (25-047415) 420017.10N/0711221.54W (12.11)	218 TREE (25-037787) 420018.41N/0711221.86W (10.52)
191 TREE (25-046576) 420016.00N/0711215.52W (10.26)	226 TREE (25-037788) 420019.28N/0711223.77W (10.08)
219 TREE (25-040152) 420016.30N/0711224.57W (8.65)	181 TREE (25-047414) 420011.48N/0711217.06W (7.68)
202 TREE (25-044797) 420013.95N/0711222.67W (4.10)	190 TREE (25-043848) 420012.89N/0711220.19W (2.88)

QUALITY 21 CHECKED

177 TREE (25-037783) 420015.06N/0711214.39W (2.42)	221 TREE (25-037790) 420016.89N/0711226.85W (1.79)
218 TREE (25-044163) 420017.43N/0711225.57W (1.39)	205 TREE (25-045738) 420015.00N/0711223.68W (1.03)
223 TREE (25-043843) 420019.20N/0711225.80W (0.84)	
FINAL TYPE LPV, LNAV/VNAV, AND LNAV:	
34:1	
224 TREE (25-042514) 420017.48N/0711227.86W (42.56)	229 TREE (25-045696) 420022.32N/0711227.08W (41.26)
222 TREE (25-047044) 420016.41N/0711228.51W (41.06)	222 TREE (25-037754) 420019.83N/0711226.94W (38.52)
222 TREE (25-037755) 420019.00N/0711227.95W (37.96)	220 TREE (25-037753) 420020.72N/0711225.44W (37.90)
225 TREE (25-037758) 420021.46N/0711228.12W (36.70)	222 TREE (25-037756) 420018.48N/0711229.99W (34.97)
222 TREE (25-045695) 420020.51N/0711228.29W (34.90)	226 TREE (25-041139) 420021.83N/0711229.57W (34.39)
224 TREE (25-045697) 420020.56N/0711229.90W (33.81)	219 TREE (25-044798) 420019.28N/0711228.59W (33.31)
224 TREE (25-045967) 420019.31N/0711231.38W (33.04)	210 TREE (25-037789) 420015.56N/0711227.17W (32.93)
219 TREE (25-037757) 420017.43N/0711230.99W (31.79)	198 TREE (25-041128) 420015.97N/0711221.56W (30.77)
197 TREE (25-040151) 420018.27N/0711220.18W (28.67)	195 TREE (25-037786) 420016.78N/0711220.87W (27.76)
192 TREE (25-037785) 420017.77N/0711218.91W (26.84)	219 TREE (25-044799) 420020.15N/0711231.68W (26.13)
200 TREE (25-042518) 420015.50N/0711225.61W (25.95)	183 TREE (25-045737) 420017.23N/0711216.91W (22.45)
217 TREE (25-044154) 420022.63N/0711230.57W (22.24)	222 TREE (25-041141) 420023.20N/0711233.73W (20.41)
219 TREE (25-041140) 420022.14N/0711233.55W (19.45)	216 TREE (25-040198) 420022.22N/0711232.08W (19.07)
213 TREE (25-037746) 420021.05N/0711231.94W (18.21)	215 TREE (25-037747) 420021.26N/0711232.85W (18.17)
210 TREE (25-037745) 420023.28N/0711228.72W (17.65)	178 TREE (25-045969) 420016.70N/0711217.30W (17.57)
179 TREE (25-037784) 420017.33N/0711217.61W (16.98)	181 TREE (25-050239) 420013.67N/0711221.83W (16.95)
213 TREE (25-045698) 420023.44N/0711232.67W (13.01)	214 TREE (25-045656) 420022.92N/0711234.14W (12.09)
220 TREE (25-037728) 420022.78N/0711238.40W (10.34)	220 TREE (25-045954) 420023.19N/0711239.15W (8.28)
216 TREE (25-037775) 420022.35N/0711238.87W (6.15)	208 TREE (25-047045) 420019.73N/0711237.10W (5.67)
206 TREE (25-043844) 420021.72N/0711234.95W (4.50)	208 TREE (25-037750) 420024.69N/0711233.56W (4.34)
201 TREE (25-046578) 420021.07N/0711233.94W (2.43)	221 TREE (25-045646) 420025.77N/0711240.63W (2.38)
163 TREE (25-046577) 420013.48N/0711220.97W (0.87)	
PENETRATIONS REMARKS:	

QUALITY 21 CHECKED

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - 20:1 PENETRATIONS.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VEGETATION HEIGHT: 100 FT.

ORDER 8260.3 CHAPTER 2 APPLIED TO 509 AAO 420309.00N/0711551.00W.

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**	2.57
WIDTH OF	FINAL	**SEGMENT AT 1000FT POINT**	1.20
TRUE COURSE OF	FINAL	**SEGMENT CONTAINING 1000FT POINT**	122.53
HIGH TERRAIN IN	FINAL	**SEGMENT CONTAINING 1000FT POINT**	300
DISTANCE FROM	THLD	**TO 1500FT POINT**	3.78
WIDTH OF	FINAL	**SEGMENT AT 1500FT POINT**	1.76
TRUE COURSE OF	FINAL	**SEGMENT CONTAINING 1500FT POINT**	122.53
HIGH TERRAIN IN	FINAL	**SEGMENT CONTAINING 1500FT POINT**	300

THRESHOLD COORDINATES (IF STR-IN)	420006.71N/0711201.43W
ARP COORDINATES	420003.17N/0711152.95W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 32 DISTANCE 0.37 NM
FAF COORDINATES	420221.64N/0711644.84W
FIX NAME COORDINATES	

REMARKS

THLD DISPLACED 509FT, ACTUAL COORDINATES: 420009.41N/0711207.12W

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
RICHARD BRUCE	AJV-A422	01/14/2026	AERONAUTICAL INFORMATION SPECIALIST

QUALITY 21 CHECKED