

**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> KBBB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 14	<u>ORIGINAL/AMENDMENT</u> 1B	<u>CITY</u> BENSON	<u>STATE</u> MN		
<u>AIRPORT ELEVATION</u> 1039	<u>TDZE</u> 1039	<u>SUPERSEDED</u> RNAV (GPS) RWY 14	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 07/18/2019	<u>MAG VAR</u> 5E	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<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>
DAWSO		JELDI		TF	FB	1.00	023.90	28.18	4000
ULJAB		HODUL		TF	FB	1.00	237.23	23.82	3600
HODUL	IAF	DOSCA	NOPT	TF	FB	1.00	228.46	5.00	2700
JELDI	IAF	DOSCA	NOPT	TF	FB	1.00	048.32	5.00	2700
DOSCA	IF/IAF	CUKUP		TF	FB	1.00	138.39	6.00	2700
CUKUP	FAF	RW14	MAP	TF	FO	0.30	138.45	5.02	
RW14	MAP	1382 MSL		CA			138.45		
1382 MSL		FETUD		DF	FO	1.00			2700

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW14

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2700 DIRECT FETUD AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD NW DOSCA, RT, 138.39 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 138.45FAF: CUKUPDIST FAF TO MAP: 5.02DIST FAF TO THLD: 5.02

4. MIN ALT: DOSCA 2700, CUKUP 2700

5. DIST TO THLD FROM OM:MM:IM:150 HAT:343 HAT: 0.95GS ANT:

6. MIN GP INCPT: 2700GP ALT AT PFAF : CUKUP 2700OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 40.0

8. MSA FROM: RW14 3400

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DAWSO ON T462 WESTBOUND.  
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING APPLETON ALTIMETER SETTING.  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE APPLETON ALTIMETER SETTING AND INCREASE LPV DA TO 1422 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 1466 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 40 FEET.

ADDITIONAL FLIGHT DATA:

HOLD SE, RT, 318.61 INBOUND.  
FAS OBST: 1259 AAO 452417N/0954318W.  
CHART VDP AT 1.44 NM TO RW14.  
WAAS CHANNEL # 49210  
REFERENCE PATH ID: W14A  
LTP HAE: 290.2 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	1382	1	343	1382	1	343		NA			NA				
LNAV/VNAV DA	1426	1 1/8	387	1426	1 1/8	387		NA			NA				
LNAV MDA	1540	1	501	1540	1	501		NA			NA				



**CHANGES - REASONS**

1. INCORPORATED CHANGES FROM P-NOTAM FOR AMDT 1A INTO FORM - IAW 8260.19I PARA 8-3-4.C(3).
2. TERMINAL ROUTES: CUKUP TO RW14 COURSE FROM "138.46" TO "138.45"- NEW TARGETS EVALUATION.
3. TERMINAL ROUTES: ADDED CA LEG - IAW 8260.58B, 3-5-2.A.
4. PROFILE LINE 2: UPDATED FROM "HOLD NW DOSCA, RT, 138.39 INBOUND, 2700 FT. IN LIEU OF PT (IAF)" TO "HOLD NW DOSCA, RT, 138.39 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 6000." - IAW 8260.19, PARA 8-6-7.B(2).
5. PROFILE LINE 3: CHANGED FAC FROM "138.46" TO "138.45"- UPDATED EVALUATION, IAW 8260.19I.
6. PROFILE LINE 6: ADDED "2700" TO GP ALT AT PFAF - IAW 8260.19I, 8-6-7.F(2).
7. PROFILE LINE 7: ADDED "20:1: IS CLEAR" - NO PENETRATING 20:1 PENETRATIONS, IAW 8260.19I, PARA 8-6-7.G(3)(A).
8. PBN REQUIREMENTS NOTE: UPDATED "RNP APCH" TO "RNP APCH - GPS" - IAW 8260.19I, PARA 8-6-8.B(2).
9. NOTES: DELETED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DAWSO VIA V78 WESTBOUND", ADDED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DAWSO ON T462 WESTBOUND" - V78 AIRWAY DOES NOT INCLUDE DAWSO, REPLACED WITH T462.
10. NOTES: UPDATED BACKUP ALTIMETER NOTES FROM "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE APPLETON ALTIMETER SETTING AND INCREASE ALL DA AND MDA 40 FEET" TO "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE APPLETON ALTIMETER SETTING AND INCREASE LPV DA TO 1422 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 1466 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 40 FEET" - IAW 8260.19I, PARA 8-6-11.1(A)(1).
11. ADDITIONAL FLIGHT DATA: DELETED ASTERISK FROM VDP AND "LNAV ONLY", UPDATED "CHART VDP AT 1.45 NM TO RW14" TO "CHART VDP AT 1.44 NM TO RW14" - IAW 8260.19I, PARA 1-1-5.F(12), UPDATED LTP ORTHOMETRIC HEIGHT .
12. MINIMUMS: REDUCED LPV ALL CATS VISIBILITIES FROM "1 1/4" TO "1" - IAW 8260.3E, TABLE 3-3-1.
13. MINIMUMS: REDUCED LNAV/VNAV ALL CATS VISIBILITIES FROM "1 1/2" TO "1 1/8"- IAW 8260.3E, TABLE 3-3-1.
14. FAS DATA BLOCK: UPDATED LTP ORTHOMETRIC HEIGHT FROM "+03164" TO "+03165" - CURRENT AIRNAV DATA, IAW 8260.19I, APPENDIX K(4).

**COORDINATED WITH:**

**A4A** ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMP, AMGR, MN AERO

**FLIGHT CHECKED BY**

SCOTT WIEBE

*Digitally signed by***CASIMIR L TABAKA**

Nov 24, 2023

**OFFICE**

FPO

**DATE**

11/17/2023

**DEVELOPED BY**

DAVID TEFFETELLER (JOSHUA C. JUONI)

*Digitally signed by***CASIMIR L TABAKA**

Nov 24, 2023

**OFFICE**

AJV-A433

**DATE**

07/11/2023

**APPROVED BY**

DAVID TEFFETELLER

*Digitally signed by***CASIMIR L TABAKA**

Nov 24, 2023

**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	KBBB
RUNWAY	RW14
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	452010.8285N
LTP/FTP LONGITUDE	0953918.7090W
LTP/FTP ELLIPSOIDAL HEIGHT	+02902
FPAP LATITUDE	451859.2100N
FPAP LONGITUDE	0953803.6000W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
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	8795FF56

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03165
FPAP ORTHOMETRIC HEIGHT	+03165

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

<u>AIRPORT ID</u> KBBB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 14	<u>AMDT NO.</u> 1B	<u>CITY</u> BENSON	<u>STATE</u> MN	<u>AIRPORT ELEVATION</u> 1039	<u>FACILITY</u> RNAV
---------------------------	--	-----------------------	-----------------------	--------------------	----------------------------------	-------------------------

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM  
DAWSO

TO  
JELDI

<u>RNP</u>	<u>DISTANCE</u> 28.18	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<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 (27-000920)	451003.31N/0960003.27W		2318	500	50	5D	1000				SA-565 AT1247	4000
TERRAIN	451848.00N/0960445.00W		1214 (1200)								AS1500	2700

COMPUTATIONS

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

SEGMENT REMARKS:

FEEDER

FROM  
ULJAB

TO  
HODUL

<u>RNP</u>	<u>DISTANCE</u> 23.82	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<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 (27-001046)	454159.00N/0951037.00W		2544	500	50	5D	1000					3600
TERRAIN	454337.95N/0952136.41W		1457 (1500)								AS1500	3000

COMPUTATIONS

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

SEGMENT REMARKS:



INITIAL

FROM  
HODUL

TO  
DOSCA

RNP	DISTANCE 5.00	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	453227.00N/0954821.00W		1424	164	98	4E	1000					2500
TERRAIN	453227.00N/0954821.00W		1224 (1200)								AS1500	2700

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

SEGMENT REMARKS:

INITIAL

FROM  
JELDI

TO  
DOSCA

<u>RNP</u>	<u>DISTANCE</u> 5.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<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	453051.00N/0954924.00W		1405	164	98	4E	1000					2500
TERRAIN	453051.00N/0954924.00W		1205 (1200)								AS1500	2700

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

SEGMENT REMARKS:



INTERMEDIATE

FROM  
DOSCA (IF/IAF)

TO  
CUKUP

RNP	DISTANCE 6.00	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	452951.00N/0954727.00W		1401	164	98	4E	500				AC98	2000
TERRAIN	452857.00N/0954718.00W		1198 (1200)								AS1500	2700

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

SEGMENT REMARKS:

FINAL: LPV

FROM  
CUKUP

TO  
RW14

RNP	DISTANCE 5.02	PAT	MAP DA	HAT 343			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
FENCE (27-022163)	452015.39N/0953918.28W		1042	50	20	2C		34:1			AC20 XP93	1382

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

SEGMENT REMARKS:

RAISED TO ALIGN WITH LPV DA PUBLISHED MINIMUMS.



FINAL: LNAV/VNAV

FROM  
CUKUP

TO  
RW14

<u>RNP</u>	<u>DISTANCE</u> 5.02	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 387			<u>HMAS</u>					
<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>
TREE (27-029103)	452042.41N/0953953.78W		1130	50	20	2C	142				AC20 XP134	1426

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

RAISED TO ALIGN WITH LNAV/VNAV DA PUBLISHED MINIMUMS.

FINAL: LNAV

FROM  
CUKUP

TO  
RW14

<u>RNP</u>	<u>DISTANCE</u> 5.02	<u>PAT</u>	<u>MAP</u> RW14	<u>HAT</u> 501			<u>HMAS</u>					
<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	452416.98N/0954317.51W		1259	50	20	2C	250				XP31	1540

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

RAISED TO ALIGN WITH LNAV MDA PUBLISHED MINIMUMS.





HOLD-IN-LIEU OF PT

FROM  
DOSCA

TO  
P-5

RNP	DISTANCE	PAT P-5	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (27-000246)	453608.00N/0955407.00W		1605	250	50	4D	1000					2700
TERRAIN	453227.00N/0954821.00W		1224 (1200)								AS1500	2700

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  
FETUD

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1153					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2700
TOWER (27-001327)	451743.81N/0953338.04W		1399	250	50	4D	1000					2400
TERRAIN	450830.00N/0951827.00W		1149 (1100)								AS1500	2600

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  
FETUD

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1284					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2700
TOWER (27-001327)	451743.81N/0953338.04W		1399	250	50	4D	1000					2400
TERRAIN	450830.00N/0951827.00W		1149 (1100)								AS1500	2600

COMPUTATIONS

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

SEGMENT REMARKS:

MISSED APPROACH : LNAV

FROM  
RW14

TO  
FETUD

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1440					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2700
TOWER (27-001327)	451743.81N/0953338.04W		1399	250	50	4D	1000					2400
TERRAIN	450830.00N/0951827.00W		1149 (1100)								AS1500	2600

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



MSA

CENTER

RW14

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (27-000920)	451003.31N/0960003.27W	230	17.8	2318	500	50	5D	1000			3400

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH  
ZMP ARTCC, PNM FSS

<u>WX SERVICE</u> AWOS-3	<u>LOCATION</u> KBBB	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KBBB	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> AWOS-3	<u>LOCATION</u> KAQP	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KAQP	<u>DISTANCE</u> 16.21	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 40

WX REMARKS:  
RASS PRESSURE PATTERNS THE SAME  
KBBB 1039' MLS, KAQP 1021' MSL  
RA= 40.0

<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>
RW14 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)		NPI-F	
RW32 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)		NPI-F	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 1038.5	<u>TCH</u> 40.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 40.0
---------------------------------	-------------------------------------	--------------------	------------------------	--------------------------	---------------------------	--------------------

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> -17C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -17C	<u>APT ISA</u> +12.94C
-----------------------------	------------------------------	--------------------	---------------------------

CRITICAL TEMPERATURE REMARKS:  
AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.  
CRITICAL LOW TEMPERATURE BASED ON ACT.  
DESCENT RATE (FPM): STANDARD TEMP 719 HIGH TEMP 1139.

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS



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

<b>PENETRATIONS REMARKS:</b>

**PART C: GENERAL REMARKS:**  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
TAA NOT APPLIED IAW ATC REQUEST.



<b>AIRPORT ID</b> KBBB	<b>PROCEDURE NAME</b> RNAV (GPS) RWY 14	<b>AMDT NO.</b> 1B	<b>CITY</b> BENSON	<b>STATE</b> MN	<b>AIRPORT ELEVATION</b> 1039	<b>FACILITY</b> RNAV
---------------------------	--	-----------------------	-----------------------	--------------------	----------------------------------	-------------------------

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	2.69
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.59
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	143.45
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1000
DISTANCE FROM	THLD	TO 1500FT POINT	4.62
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.98
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	143.45
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1000

THRESHOLD  
COORDINATES  
(IF STR-IN)

452010.83N/0953918.71W

ARP COORDINATES

451954.90N/0953902.10W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP

RUNWAY 14 DISTANCE 0.33 NM

FAF  
COORDINATES

452412.91N/0954333.08W

FIX NAME  
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

QUALITY  
20  
CHECKED

Page 10 of 11

**FACILITY**  
RNAV

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
DAVID TEFFETELLER (JOSHUA C. JUONI)	AJV-A433	07/11/2023	AERONAUTICAL INFORMATION SPECIALIST