

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> IMT	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 1	<u>ORIGINAL/AMENDMENT</u> ORIG-E	<u>CITY</u> IRON MOUNTAIN KINGSFORD	<u>STATE</u> MI
<u>AIRPORT ELEVATION</u> 1182	<u>TDZE</u> 1133	<u>SUPERSEDED</u> RNAV (GPS) RWY 1	<u>DATED</u> 09/05/2024	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>MAG VAR</u> 2W	<u>CANCEL/SUSPEND</u>
		<u>REQUIRED EFFECTIVE DATE</u> ROUTINE		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 280/30 CW 100/30	NOPT	SEYOC	IF/IAF	3400
2. 100/30 CW 190/30		AFERO	IAF	3900
3. 190/30 CW 280/30		OJOSO	IAF	3400

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
OJOSO	IAF	SEYOC	NOPT	TF	FB	1.00	279.72	5.00	3400
AFERO	IAF	SEYOC	NOPT	TF	FB	1.00	099.56	5.00	3400
SEYOC	IF/IAF	JUNEM		TF	FB	1.00	009.64	6.12	2900
JUNEM	FAF	LOOMS/2.60 NM TO RW01		TF	FB	0.30	009.66	2.71	
LOOMS/2.60 NM TO RW01		RW01	MAP	TF	FO	0.30	009.66	2.60	
RW01	MAP	1383 MSL		CA			009.66		
1383 MSL		DAMPY		DF	FO	1.00			3400

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW01

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3400 DIRECT DAMPY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	HOLD S SEYOC, RT, 009.64 INBOUND, 3400 IN LIEU OF PT (IAF), MAX 6000.														
3.	FAC:	009.66	FAF:	JUNEM	DIST FAF TO MAP:	5.31	DIST FAF TO THLD:	5.31							
4.	MIN ALT:	SEYOC 3400, JUNEM 2900, LOOMS/2.60 NM TO RW01 2000													
5.	DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		250 HAT:	0.62	GS ANT:				
6.	MIN GP INCPT:	2900	GP ALT AT PFAF:	JUNEM 2900					OM:		MM:			IM:	
7.	GP ANGLE:	3.04	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	53.0							
8.	MSA FROM:														

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING RWY 13, 31 NA AT NIGHT.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.
CHART NOTE: CIRCLING NA NORTHEAST OF RWYS 19 AND 31.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING ESC ALTIMETER SETTING.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITIES TO 1 3/4 SM AND LNAV CATS C AND D VISIBILITY TO 1 3/4 SM. WHEN USING ESC ALTIMETER SETTING INCREASE LPV ALL CATS VISIBILITIES TO 1 1/4 SM AND LNAV CATS C AND D VISIBILITIES TO 2 1/2 SM.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ESC ALTIMETER SETTING AND INCREASE LPV DA TO 1563 FEET AND ALL VISIBILITIES 1/4 SM; INCREASE LNAV/VNAV DA TO 1940 FEET AND ALL VISIBILITIES 1/2 SM; INCREASE ALL MDAS 180 FEET AND LNAV VISIBILITIES CAT B/C/D 1/2 SM, AND CIRCLING VISIBILITIES CAT B/C/D 3/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 189.69 INBOUND.
CHART FAS OBST: 1427 TREE (26-073913) 454653N/0880810W.
CHART VDP AT 1.77 NM TO RW01.
WAAS CHANNEL # 77811
REFERENCE PATH ID: W01A
LTP HAE: 310.8 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4, 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	1383	1/2	250	1383	1/2	250	1383	1/2	250	1383	1/2	250			
LNAV/VNAV DA	1760	1 3/8	627	1760	1 3/8	627	1760	1 3/8	627	1760	1 3/8	627			
LNAV MDA	1760	1/2	627	1760	1/2	627	1760	1 3/8	627	1760	1 3/8	627			
CIRCLING	1760	1	578	1780	1	598	1780	1 3/4	598	1880	2 1/4	698			



CHANGES - REASONS

1. INCORPORATED CHANGES FROM ORIG-D P-NOTAM INTO THESE FORMS.
2. PROFILE: LINE 7 CHANGED FROM 34:1 "IS NOT CLEAR" TO "IS CLEAR" – NEW OBSTACLE EVALUATION, NO PENETRATIONS.
3. NOTES: CHANGED CHART NOTE FROM "CIRCLING RWY 13, 19 AND 31 NA AT NIGHT." TO "CIRCLING RWY 13, 31 NA AT NIGHT." – RWY 19 NO LONGER HAS NIGHT RESTRICTIONS/20:1 OBSTACLES.
4. NOTES: DELETED CHART NOTE "INOPERATIVE TABLE DOES NOT APPLY TO LPV." AND ADDED "FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITIES TO 1 3/4 SM AND LNAV CATS C AND D VISIBILITY TO 1 3/4 SM. WHEN USING ESC ALTIMETER SETTING INCREASE LPV ALL CATS VISIBILITIES TO 1 1/4 SM AND LNAV CATS C AND D VISIBILITIES TO 2 1/2 SM." – NEW TARGETS EVALUATION/IAW 8260.3G, 3-3-1 AND INOP TABLE, FPT DIRECTED BACKUP ALTIMETER NOTES BE MOVED TO PROCEDURE NOTES WITH RNAV RWY 19 FULL AMENDMENT.
5. NOTES: ADDED CHART NOTE "BARO-VNAV AND VDP NA WHEN USING ESC ALTIMETER SETTING." – IAW 8260.19J, 8-6-10.E.(8) AND (9).
6. NOTES: ADDED CHART NOTE "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ESC ALTIMETER SETTING AND INCREASE LPV DA TO 1563 FEET AND ALL VISIBILITIES 1/4 SM; INCREASE LNAV/VNAV DA TO 1940 FEET AND ALL VISIBILITIES 1/2 SM; INCREASE ALL MDAS 180 FEET AND LNAV VISIBILITIES CAT B/C/D 1/2 SM, AND CIRCLING VISIBILITIES CAT B/C/D 3/4 SM." – IAW 8260.19J, 8-6-10.F.(4) AND 8260.3G, 3-3-2., FPT DIRECTED PLACE IN PROCEDURE NOTES.
7. ADDITIONAL FLIGHT DATA: CHANGED FROM "HOLD N, RT, 189.70 INBOUND." TO "HOLD N, RT, 189.69 INBOUND." – UPDATED TO ALIGN WITH RNAV RWY 19 SEGMENT COURSE.
8. ADDITIONAL FLIGHT DATA: CHANGED FROM "CHART FAS OBST: 1422 TREE (KIMT0001) 454655N/0880820W." TO "CHART FAS OBST: 1427 TREE (26-073913) 454653N/0880810W." – NEW OBSTACLE EVALUATION.
9. ADDITIONAL FLIGHT DATA: CHANGED FROM "CHART VDP AT 1.81 NM TO RW01." TO "CHART VDP AT 1.77 NM TO RW01." – TARGETS CALCULATED VDA CORRECTED TO 3.04.
10. ADDITIONAL FLIGHT DATA: DELETED "CHART CIRCLING ICON" – NO LONGER REQUIRED AND IAW FAA MEMO "REVISED CIRCLING MANEUVERING AREA CRITERIA IMPLEMENTATION PLAN" DATED 09/30/2021.
11. ALTERNATE MINIMUMS: CHANGED FROM "STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE." TO "STANDARD - CAT D 800-2 1/4, NA WHEN LOCAL WEATHER NOT AVAILABLE" – UPDATED DUE TO RAISED CIRCLING MINIMUMS AND IAW 8260.3G, 3-4-1.
12. MINIMUMS: LPV VISIBILITY ALL CATS DECREASED FROM 3/4 SM TO 1/2 SM – NEW EVALUATION AND IAW 8260.3G TABLE 3-3-1.
13. MINIMUMS: LNAV/VNAV DA/HAT DECREASED FROM 1806/673 TO 1760/627 AND VISIBILITY ALL CATS DECREASED FROM 2 SM TO 1 3/8 SM – NEW EVALUATION IAW 8260.3G TABLE 3-3-1.
14. MINIMUMS: LNAV VISIBILITY CATS A AND B DECREASED FROM 3/4 SM TO 1/2 SM, CAT C INCREASED FROM 1 1/4 SM TO 1 3/8 SM, AND CAT D DECREASED FROM 1 1/2 SM TO 1 3/8 SM. – NEW EVALUATION IAW WITH AND 8260.3G TABLE 3-3-1.
15. MINIMUMS: CIRCLING CAT D MINIMUMS INCREASED FROM MDA/HAA 1840/658 TO 1880/698 AND VISIBILITY FROM 2 SM TO 2 1/4 SM – NEW OBSTACLE EVALUATION, PREVIOUSLY FLIGHT CHECKED BY ILS OR LOC RWY 1 AND MATCHES WORKING RNAV (GPS) RWY 19 FULL.
16. FAS DATA: CRC CHANGED FROM "C233CC68" TO "C7F3FAE7" – LTP/FTP LATITUDE LONGITUDE CHANGED FROM "454837.8600N/0880654.5000W" TO "454837.8525N/0880654.5020W", FPAP CHANGED FROM "454947.3300N/0880641.1200W" TO "455006.1320N/0880637.4870W", GPA CHANGED FROM "3.00" TO "3.04", LENGTH OFFSET CHANGED FROM "0184" TO "0768", AND LTP/FPAP ORTHOMETRIC HEIGHT CHANGED FROM "+03451" TO "+03450".

COORDINATED WITH:

A4A

☒

ALPA

☒

AOPA

☒

APA

☒

HAI

☐

NBAA

☒

OTHER: ZMP, AMGR

FLIGHT CHECKED BY

MARC WEBBER

Digitally signed by
CASIMIR L TABAKA
Aug 22, 2025

OFFICE

AJF

DATE

08/21/2025

DEVELOPED BY

CASIMIR L. TABAKA (CHRISTOPHER D. WILKINSON)

Digitally signed by
CASIMIR L TABAKA
Aug 22, 2025

OFFICE

AJV-A432

DATE

07/07/2025

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by
CASIMIR L TABAKA
Aug 22, 2025

OFFICE

AJV-A432

DATE

TITLE
MANAGER



QUALITY
37
CHECKED

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

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
IMT	RNAV (GPS) RWY 1	ORIG-E	IRON MOUNTAIN KINGSFORD	MI	1182	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM 280/30 CW 100/30 **TO** SEYOC

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 (55-001109)	453427.00N/0885257.00W	2230	500	50	5D	1000					3300
TERRAIN	453327.00N/0884851.00W	1935 (1900)								AS1500	3400

COMPUTATIONS

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

SEGMENT REMARKS:

LEFT BASE AREA

FROM 100/30 CW 190/30 **TO** AFERO

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 (26-001311)	460603.00N/0883225.00W	2260	500	125	5E	1000				AT640	3900
TERRAIN	460139.00N/0884224.00W	1863 (1900)								AS1500	3400

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY
37
CHECKED

RIGHT BASE AREA

FROM

190/30 CW 280/30

TO

OJOSO

<u>RNP</u>	<u>DISTANCE</u>	<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 (26-002636)	460233.06N/0880335.85W	1856	500	125	5E	1000				AT544	3400
TERRAIN	454915.00N/0880239.00W	1571 (1600)								AS1500	3100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

OJOSO

TO

SEYOC

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	5.00										
<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	453957.00N/0880627.00W	1493	215	8	4B	1000				AT907	3400
TERRAIN	453612.00N/0881100.00W	1256 (1300)								AS1500	2800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INITIAL

FROM

AFERO

TO

SEYOC

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	5.00										
<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	453936.00N/0881651.00W	1608	215	8	4B	1000				AT792	3400
TERRAIN	453906.00N/0881509.00W	1348 (1300)								AS1500	2800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

SEYOC (IF/IAF)

TO

JUNEM

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	6.12										
<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	453951.00N/0880751.00W	1523	215	8	4B	500				AT877	2900
TERRAIN	453951.00N/0880751.00W	1322 (1300)								AS1500	2800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LPV

FROM

JUNEM

TO

RW01

RNP 0.30	DISTANCE 5.31	PAT	MAP DA	HAT 250	HMAS						
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC			XP50	1383

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

XP - MAINTAIN CURRENT MINIMUMS.

FINAL: LNAV/VNAV

FROM

JUNEM

TO

RW01

<u>RNP</u> 0.30	<u>DISTANCE</u> 5.31	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 627	<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 (26-177702)	454727.60N/0880650.52W	1316	20	3	1A		23.1:1				1760

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV

FROM

JUNEM

TO

LOOMS/2.60 NM TO RW01

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.71										
<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	454515.00N/0880818.00W	1546	215	8	4B	250				RA180 DG21	2000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM

LOOMS/2.60 NM TO RW01

TO

RW01

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.60		RW01		627						
<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 (26-073913)	454653.08N/0880810.35W	1427	20	3	1A	250				XP99 SA-36 MA20	1760

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

XP - MAINTAIN CURRENT MINIMUMS.



HOLD-IN-LIEU OF PT

FROM
SEYOC

TO
P-5

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u> P-5	<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	453951.00N/0880751.00W	1523	215	8	4B	1000				AT877	3400
TERRAIN	453951.00N/0880751.00W	1322 (1300)								AS1500	2800

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
DAMPY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30										1193	
<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				3400
AAO	455730.00N/0880609.00W	1677	215	8	4B	1000					2700
TERRAIN	455003.00N/0880512.00W	1522 (1500)								AS1500	3000

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

DAMPY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30										1599	
<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				3400
AAO	455730.00N/0880609.00W	1677	215	8	4B	1000					2700
TERRAIN	455003.00N/0880512.00W	1522 (1500)								AS1500	3000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM

RW01

TO

DAMPY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30-1.00											1660
<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 (26-000692)	455002.00N/0880517.00W	1660	20	3	1A		ASC				3400
AAO	455730.00N/0880609.00W	1677	215	8	4B	1000					2700
TERRAIN	455003.00N/0880512.00W	1522 (1500)								AS1500	3000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID

IMT

PROCEDURE NAME

RNAV (GPS) RWY 1

AMDT NO.

ORIG-E

CITY

IRON MOUNTAIN KINGSFORD

STATE

MI

AIRPORT ELEVATION

1182

FACILITY

RNAV

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	454918.00N/0880851.00W	1.31	578	1341	215	8	4B	300		SI	1760
CATEGORY B											
TREE	454727.00N/0880851.00W	1.85	598	1459	215	8	4B	300		XP21	1780
CATEGORY C											
TREE	454730.00N/0880900.00W	2.91	598	1462	215	8	4B	300			1780
CATEGORY D											
TREE	454512.00N/0880839.00W	3.80	698	1562	215	8	4B	300			1880

CIRCLING REMARKS:
XP - MAINTAIN CURRENT MINIMUMS.

MSA/ESA
CENTERRADIUS
REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZMP ARTCC, GRB FSS

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	IMT	24	IMT		Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
AWOS-3PT	ESC	24	ESC	43.26	Y	180

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KIMT 1182, KESC 609
RA = 179.7.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
APPROACH AND RUNWAY LIGHTING SYSTEM		RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW13 - MIRL (PCL)		NPI-F	
RW31 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)		NPI-F	
RW01 - MALSR (PCL), HIRL (PCL)		PIR-G	
RW19 - REIL (PCL), HIRL (PCL), PAPI-4L (PCL)		PIR-G	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.04	1132.0	53.0				

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	X	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	X	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
-17C	+54C	-17C	+12.66C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON EFFECTIVE GPA.
DESCENT RATE (FPM): STANDARD TEMP 983 HIGH TEMP 1280.

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RWY 13		
20:1			
1145 TREE (26-176681) 454915.21N/0880719.74W (15.88)	1151 TREE (26-177675) 454915.94N/0880723.92W (8.4)		
1158 TREE (26-034642) 454914.86N/0880728.21W (7.76)	1169 TREE (26-034640) 454916.14N/0880731.03W (6.99)		



AIRPORT ID IMT		PROCEDURE NAME RNAV (GPS) RWY 1	AMDT NO. ORIG-E	CITY IRON MOUNTAIN KINGSFORD	STATE MI	AIRPORT ELEVATION 1182	FACILITY RNAV
1159 TREE (26-176427) 454915.48N/0880728.88W (4.89)				1153 TREE (26-178032) 454917.19N/0880724.69W (4.14)			
1139 TREE (26-177366) 454915.92N/0880721.31W (3.34)				1159 TREE (26-034641) 454915.60N/0880729.43W (3.04)			
1170 TREE (26-177722) 454917.10N/0880732.32W (1.35)							
FINAL TYPE	CIRCLING RWY 31						
20:1							
1281 TREE (26-073624) 454833.43N/0880605.71W (30.76)				1286 TREE (26-073975) 454833.08N/0880604.13W (30.41)			
1295 TREE (26-177128) 454830.52N/0880603.22W (28.34)				1289 TREE (26-073976) 454831.60N/0880603.37W (26.4)			
1211 TREE (26-178175) 454836.23N/0880626.55W (25.13)				1287 TREE (26-073134) 454832.24N/0880602.20W (23.48)			
1291 TREE (26-077272) 454830.55N/0880602.54W (22.65)				1286 TREE (26-073977) 454830.56N/0880603.99W (21.51)			
1266 TREE (26-073625) 454834.06N/0880607.06W (21.45)				1277 TREE (26-178073) 454831.88N/0880605.67W (21.4)			
1267 TREE (26-073623) 454833.01N/0880607.01W (18.76)				1203 TREE (26-077053) 454839.64N/0880622.75W (18.66)			
1197 TREE (26-077057) 454836.73N/0880628.34W (17.53)				1206 TREE (26-178476) 454835.95N/0880625.48W (16.36)			
1195 TREE (26-077962) 454837.93N/0880627.08W (16.28)				1195 TREE (26-178252) 454840.11N/0880624.04W (15.65)			
1285 TREE (26-073133) 454831.19N/0880601.24W (15.4)				1198 TREE (26-178408) 454836.95N/0880626.65W (14.83)			
1271 TREE (26-073620) 454831.71N/0880605.28W (13.8)				1246 TREE (26-176896) 454835.21N/0880609.90W (12.82)			
1194 TREE (26-077058) 454836.84N/0880627.01W (11.4)				1195 TREE (26-176711) 454839.04N/0880623.75W (11.27)			
1250 TREE (26-073626) 454834.67N/0880608.42W (11.09)				1251 TREE (26-077273) 454833.77N/0880609.06W (10.73)			
1197 TREE (26-176886) 454837.66N/0880624.42W (10.36)				1198 TREE (26-096023) 454835.69N/0880626.45W (10.04)			
1286 TREE (26-073135) 454830.12N/0880600.05W (9.64)				1261 TREE (26-178231) 454831.90N/0880607.25W (9.63)			
1289 TREE (26-073566) 454829.98N/0880558.55W (8.22)				1198 TREE (26-077794) 454839.09N/0880621.27W (7.9)			
1269 TREE (26-073619) 454830.41N/0880605.47W (7.9)				1289 TREE (26-177049) 454830.25N/0880558.04W (7.79)			
1200 TREE (26-077063) 454834.65N/0880626.10W (7.59)				1202 TREE (26-177264) 454837.69N/0880620.91W (6.22)			
1201 TREE (26-077793) 454838.77N/0880619.90W (6.21)				1196 TREE (26-177760) 454836.66N/0880624.43W (6)			
1183 TREE (26-077055) 454838.89N/0880626.18W (5.16)				1187 TREE (26-077054) 454839.13N/0880624.09W (4.47)			
1206 TREE (26-077471) 454838.23N/0880618.03W (4.46)				1179 TREE (26-178380) 454838.06N/0880628.33W (4.01)			
1188 TREE (26-077056) 454837.56N/0880625.49W (3.84)				1198 TREE (26-077792) 454837.96N/0880621.16W (3.79)			
1195 TREE (26-176631) 454837.41N/0880623.00W (3.77)				1207 TREE (26-177335) 454837.39N/0880618.34W (3.43)			
1192 TREE (26-077059) 454838.39N/0880622.67W (3.22)				1216 TREE (26-077796) 454835.88N/0880616.78W (3.21)			
1192 TREE (26-177598) 454839.98N/0880620.44W (2.73)				1201 TREE (26-177626) 454834.34N/0880624.14W (2.38)			
1208 TREE (26-097668) 454836.51N/0880618.59W (2.11)				1173 TREE (26-077959) 454841.80N/0880625.05W (2.04)			
1200 TREE (26-096020) 454835.17N/0880623.08W (1.4)				1210 TREE (26-077472) 454837.40N/0880616.29W (1.07)			
1200 TREE (26-077749) 454833.67N/0880624.87W (1.03)				1168 TREE (26-077960) 454840.46N/0880628.27W (0.98)			
PENETRATIONS REMARKS:							

QUALITY
37
CHECKED

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.
100 FT VEGETATION USED PER FPT.
BACKUP ALTIMETER NOTES TO BE CHARTED PER FPT.
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	3.82
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	007.66
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1400
DISTANCE FROM	THLD	TO 1500FT POINT	5.31
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	007.66
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1400

THRESHOLD COORDINATES (IF STR-IN)	454837.85N/0880654.50W
ARP COORDINATES	454906.08N/0880652.36W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 19 DISTANCE 0.60 NM
FAF COORDINATES	454322.37N/0880755.16W
FIX NAME COORDINATES	

REMARKS

TAA STRAIGHT-IN:
280/30 CW 100/30 TO SEYOC 453718.33N/0880904.92W.
TAA LEFTBASE:
100/30 CW 190/30 TO AFERO 453757.99N/0881608.65W.
TAA RIGHTBASE:
190/30 CW 280/30 TO OJOSO 453638.24N/0880201.36W.

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
CASIMIR L. TABAKA (CHRISTOPHER D. WILKINSON)	AJV-A432	07/07/2025	AERONAUTICAL INFORMATION SPECIALIST

