RADIO FIX AND HOLDING DATA RECORD

NAME: BANJO **STATE:** MI **COUNTRY:** US **ICAO REGION CODE:** K5

LATITUDE/LONGITUDE: 440638.29N/0841033.54W **TYPE:** WP, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SAGINAW	MBS	VOR/DME	L	356.00	353.00	35.00	35.00		3000	17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	S		WP	179.00	359.00	R		4	4000	6000	5	13

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-002281)	440438.00N/0840504.00W	1248	5D
1	310	TOWER (26-002281)	440438.00N/0840504.00W	1248	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 27	Y31	WEST BRANCH	MI (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V609	1				(US)
EN ROUTE	V78	1				(US)
IAP	RNAV (GPS) RWY 27			KGDW	GLADWIN	MI (US)
IAP	RNAV (GPS) RWY 24			KIKW	MIDLAND	MI (US)
IAP	RNAV (GPS) RWY 27		1	Y31	WEST BRANCH	MI (US)
IAP	RNAV (GPS) RWY 9		1	Y31	WEST BRANCH	MI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 04/17/2025

REASON FOR REVISION:
1. DELETED "INT" IN FIX TYPE.
2. DELETED MOP IN FIX MAKE-UP FACILITIES -- MOP VOR MON.
3. DELETED REMARK "SAGINAW (FAC 1) AND MOUNT PLEASANT (FAC 2) USED TO ESTABLISH FIX COORDINATES".
4. DELETED IAP VOR RWY 27 AT Y31 IN FIX USE.
5. DELETED ALL INSTANCES OF FAC 2 IN FIX USE.
6. DELETED "CONTROLLER" AND ADDED "CONTROLLER LOW" IN REQUIRED CHARTING.

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A423 **NAME:** DANIEL JOHNSEN

APPROVED BY: **DATE:** 04/17/2025 **OFFICE:** AJV-A423 **NAME:** ALLAN WILL

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: CADOB **STATE:** MI **COUNTRY:** US **ICAO REGION CODE:** K5

LATITUDE/LONGITUDE: 433400.26N/0842915.90W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SW		WP	245.86	065.86	L		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-000632)	433057.60N/0843244.90W	1739	2D

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 24		1	KIKW	MIDLAND	MI (US)
IAP	RNAV (GPS) RWY 6		1	KIKW	MIDLAND	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 04/17/2025

REASON FOR REVISION:
1. DELETED FAC 1 FROM FIX MAKE-UP.
2. CHANGED PAT 1 RAD/CRS/BRG FROM 245.88 TO 245.86 AND COURSE INBOUND FROM 065.88 TO 065.86.
3. CHANGED PAT 1 CONTROLLING OBSTRUCTION COORDINATES FROM: 433056.00N/0843249.00W TO: 433057.60N/0843244.90W; HEIGHT FROM 1742 TO 1739; AND ACCURACY CODE FROM 5D TO 2D.
4. CHANGED REASON FOR NONSTANDARD HOLDING FROM "PAT 1 MBS ATCT REQUEST TO AVOID MBS INTL" TO "PAT 1 ATC REQUEST".
5. MOVED "HOLDING LIMITED TO ESTABLISHED PATTERN" FROM REMARKS TO HOLDING RESTRICTIONS.
6. ADDED "PRECIPITOUS TERRAIN EVALUATION COMPLETED" TO REMARKS.
7. DELETED 3BS FROM FIX USE.
8. ADDED KIKW RNAV (GPS) RWYS 6 AND 24 TO FIX USE.

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432 **NAME:** HOPE DENTON

APPROVED BY: **DATE:** 03/13/2025 **OFFICE:** AJV-A432 **NAME:** CASIMIR TABAKA

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: FAMED **STATE:** MI **COUNTRY:** US **ICAO REGION CODE:** K5

LATITUDE/LONGITUDE: 434527.22N/0840154.66W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE		WP	066.18	246.18	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-001171)	434218.00N/0840038.00W	1019	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 24		1	KIKW	MIDLAND	MI (US)
IAP	RNAV (GPS) RWY 6		1	KIKW	MIDLAND	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 04/17/2025

REASON FOR REVISION:
1. DELETED FAC 1 FROM FIX MAKE-UP.
2. HOLDING PAT 1 INBOUND COURSE CHANGED FROM 246.19 TO 246.18.
3. HOLDING PAT 1 CONTROLLING OBSTACLE HEIGHT CHANGED FROM 1020 TO 1019.
4. MOVED "HOLDING LIMITED TO ESTABLISHED PATTERN" FROM REMARKS TO HOLDING RESTRICTIONS.
5. ADDED "PRECIPITOUS TERRAIN EVALUATION COMPLETED" TO REMARKS.
6. DELETED 3BS FROM FIX USE.
7. ADDED KIKW RNAV (GPS) RWYS 6 AND 24 TO FIX USE.

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432 **NAME:** HOPE DENTON

APPROVED BY: **DATE:** 03/13/2025 **OFFICE:** AJV-A432 **NAME:** CASIMIR TABAKA

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: MOUNT PLEASANT VOR/DME **STATE:** MI **COUNTRY:** US **ICAO REGION CODE:** K5

LATITUDE/LONGITUDE: 433722.17N/0844414.16W **TYPE:**

AIRSPACE DOCKET: 23-AGL-41 **FIX TYPE OF ACTION:** CANCEL

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	MOUNT PLEASANT	MOP	VOR/DME	L							

HOLDING: **HOLDING TYPE OF ACTION:** CANCEL

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	S		WP	184.00	004.00	R		4	2800	14000	5	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	WINDMILL (26-130460)	434209.85N/0844320.66W	1362	4D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAGVAR: 5W (1995).

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V320					(US)
IAP	RNAV (GPS) RWY 18			KAMN	ALMA	MI (US)
IAP	RNAV (GPS) RWY 9			KAMN	ALMA	MI (US)
IAP	VOR RWY 18			KAMN	ALMA	MI (US)
IAP	RNAV (GPS) RWY 27			KRQB	BIG RAPIDS	MI (US)
IAP	RNAV (GPS) RWY 25			KCAD	CADILLAC	MI (US)
IAP	RNAV (GPS) RWY 4		1	48D	CLARE	MI (US)
IAP	RNAV (GPS) RWY 27			KGDW	GLADWIN	MI (US)
IAP	RNAV (GPS) RWY 24			KIKW	MIDLAND	MI (US)
IAP	RNAV (GPS) RWY 6			KIKW	MIDLAND	MI (US)
IAP	VOR-A			KIKW	MIDLAND	MI (US)
IAP	ILS OR LOC RWY 23			KMBS	SAGINAW	MI (US)
IAP	ILS OR LOC RWY 5			KMBS	SAGINAW	MI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18 **DATE OF REVISION:** 12/26/2024

REASON FOR REVISION:
1. DOCKET: ADDED "23-AGL-41"
2. FIX USE: REMOVED EN ROUTE "V233"

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A423 **NAME:** HENRY BRADSHAW

APPROVED BY: **DATE:** 04/17/2025 **OFFICE:** AJV-A423 **NAME:** ALLAN WILL

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: SAGINAW VOR/DME **STATE:** MI **COUNTRY:** US **ICAO REGION CODE:** K5

LATITUDE/LONGITUDE: 433153.93N/0840438.29W **TYPE:**

AIRSPACE DOCKET: 23-AGL-12 **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SAGINAW	MBS	VOR/DME	L							17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NW	MBS	VOR/DME	305.00	125.00	R	1		3000	10000	4	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-001850)	433356.18N/0841714.31W	1055	1A
1	310	TOWER (26-002117)	432442.00N/0841319.00W	1140	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
MBS VOR/DME MAG VAR 3W/1965.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V133					(US)
EN ROUTE	V274					(US)
EN ROUTE	V45					(US)
EN ROUTE	V609					(US)
EN ROUTE	V78					(US)
IAP	RNAV (GPS) RWY 18			KAMN	ALMA	MI (US)
IAP	RNAV (GPS) RWY 27			KAMN	ALMA	MI (US)
IAP	RNAV (GPS) RWY 17			KBAX	BAD AXE	MI (US)
IAP	RNAV (GPS) RWY 22			KBAX	BAD AXE	MI (US)
IAP	RNAV (GPS) RWY 35			KBAX	BAD AXE	MI (US)
IAP	RNAV (GPS) RWY 4			KBAX	BAD AXE	MI (US)
IAP	RNAV (GPS) RWY 24			KCFS	CARO	MI (US)
IAP	VOR-A			KCFS	CARO	MI (US)
IAP	RNAV (GPS) RWY 27			KGDW	GLADWIN	MI (US)
IAP	ILS OR LOC RWY 10R			KLAN	LANSING	MI (US)
IAP	RNAV (GPS) RWY 24			KIKW	MIDLAND	MI (US)
IAP	RNAV (GPS) RWY 6			KIKW	MIDLAND	MI (US)
IAP	VOR-A			KIKW	MIDLAND	MI (US)
IAP	VOR/DME RWY 29			KRNP	OWOSSO	MI (US)
IAP	ILS OR LOC RWY 28		1	KHYX	SAGINAW	MI (US)
IAP	RNAV (GPS) RWY 10			KHYX	SAGINAW	MI (US)
IAP	RNAV (GPS) RWY 28			KHYX	SAGINAW	MI (US)
IAP	VOR/DME-A		1	KHYX	SAGINAW	MI (US)
IAP	ILS OR LOC RWY 23			KMBS	SAGINAW	MI (US)
IAP	ILS OR LOC RWY 5			KMBS	SAGINAW	MI (US)
IAP	VOR RWY 14			KMBS	SAGINAW	MI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 27 **DATE OF REVISION:** 04/17/2025

REASON FOR REVISION:
1. ADDED AIRSPACE DOCKET 23-AGL-12.
2. DELETED EN ROUTE V320 IN FIX USE.

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A423 **NAME:** DANIEL JOHNSEN

APPROVED BY: **DATE:** 04/17/2025 **OFFICE:** AJV-A423 **NAME:** ALLAN WILL

SIGNATURE: