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

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
IKW	RNAV (GPS) RWY 6	2	MIDLAND	MI	635	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
MBS VOR/DME

TO
BUDRE

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	15.12				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
WINDMILL (26-151535)	432817.73N/0842610.28W	1197	250	50	4D	1000				AT803	3000
TERRAIN	432639.00N/0842548.00W	711 (700)								AS1500	2200

COMPUTATIONS

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

SEGMENT REMARKS:

FEEDER

FROM
INDEX

TO
BUDRE

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	9.55				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
WINDMILL (26-027515)	431928.42N/0843105.44W	1220	500	50	5D	1000				AT780	3000
TERRAIN	432321.00N/0842912.00W	764 (800)								AS1500	2300

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY 37 CHECKED

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
IKW	RNAV (GPS) RWY 6	2	MIDLAND	MI	635	RNAV

INITIAL

FROM	TO
FIBIT	CADOB

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	6.36				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (26-027967)	433631.00N/0842909.00W	983	250	50	4D	1000				AT1017	3000
TERRAIN	433827.00N/0843530.00W	715 (700)								AS1500	2200

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM	TO
BUDRE	CADOB

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	6.36				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
WINDMILL (26-151535)	432817.73N/0842610.28W	1197	250	50	4D	1000				AT803	3000
TERRAIN	433000.00N/0842651.00W	728 (700)								AS1500	2200

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY 37 CHECKED

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
IKW	RNAV (GPS) RWY 6	2	MIDLAND	MI	635	RNAV

INTERMEDIATE

FROM	TO
CADOB (IF/IAF)	ASANE

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	6.10				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (26-027967)	433631.00N/0842909.00W	983	250	50	4D	500				AT817	2300
TERRAIN	433203.00N/0842936.00W	685 (700)								AS1500	2200

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV

FROM	TO
ASANE	OBIDE/1.70 NM TO RW06

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	3.40				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (26-001461)	433810.00N/0841754.00W	921	100	3	3A	250				RA40 DG29	1240

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY 37 CHECKED

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
IKW	RNAV (GPS) RWY 6	2	MIDLAND	MI	635	RNAV

FINAL: LNAV STEPDOWN

FROM	TO
OBIDE/1.70 NM TO RW06	RW06

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	1.70		RW06	372	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (26-142344)	433901.25N/0841656.23W	744	20	3	1A	250					1000

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	TO
CADOB	P-5

RNP	DISTANCE	PAT	MAP	HAT	HMAS
		P-5			

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (26-000632)	433057.60N/0843244.90W	1739	50	50	2D	1000				AT261	3000
TERRAIN	432857.00N/0844109.00W	816 (800)								AS1500	2300

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY 37 CHECKED

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
IKW	RNAV (GPS) RWY 6	2	MIDLAND	MI	635	RNAV

MISSED APPROACH: LNAV

FROM	TO
RW06	FAMED

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30-1.00					900

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TOWER (26-000990)	434140.00N/0840503.00W	1035	250	50	4D	1000				SA-77	2000
TERRAIN	434051.00N/0841224.00W	702 (700)								AS1500	2200

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											
TOWER (26-142002)	433925.12N/0841343.57W	1.30	445	774	20	3	1A	300			1080
CATEGORY B											
TREE (26-142038)	433951.97N/0841240.18W	1.83	465	795	20	10	1B	300			1100
CATEGORY C											
TOWER (26-001461)	433810.00N/0841754.00W	2.87	605	921	100	3	3A	300			1240

CIRCLING REMARKS:

MSA

CENTER	RADIUS
RW06	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (26-003264)	431331.10N/0840432.90W	168	27.4	1850	50	50	2D	1000			2900

MSA REMARKS:

QUALITY 37 CHECKED

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
IKW	RNAV (GPS) RWY 6	2	MIDLAND	MI	635	RNAV

COMMUNICATIONS WITH

LAN FSS, ZMP ARTCC, ZOB ARTCC, MBS APP CON

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
AWOS-3P	IKW	24	IKW		Y	0

BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	MBS	24	MBS	11.12	Y	30

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
IKW 635, MBS 659
RA = 29.4.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW06 - MIRL (PCL), REIL (PCL), PAPI-2L (PCL)	NPI-F	
RW18 - REIL (PCL), MIRL (PCL)	NPI-F	
RW24 - MIRL (PCL), REIL (PCL), PAPI-2L (PCL)	NPI-F	
RW36 - MIRL (PCL), REIL (PCL)	NPI-F	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
					3.00	31.8

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

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RWY 18
20:1	
700 TREE (26-142024) 434014.3400N/0841555.5100W (19)	703 TREE (26-142660) 434015.1400N/0841546.2900W (17.91)
708 TREE (26-142499) 434017.7100N/0841555.8300W (9.94)	701 TREE (26-141897) 434016.3900N/0841547.5700W (9.59)
709 TREE (26-141904) 434018.3100N/0841546.7800W (7.87)	689 TREE (26-142633) 434014.5800N/0841548.4700W (6.76)
FINAL TYPE	CIRCLING RWY 36

QUALITY 37 CHECKED

20:1	
700 TREE (26-142008) 433918.9400N/0841545.8200W (21.72)	692 TREE (26-142049) 433920.2800N/0841547.0600W (20.5)
710 TREE (26-142457) 433914.8900N/0841555.2200W (11.17)	703 TREE (26-142243) 433915.2700N/0841552.7800W (6.11)
682 TREE (26-141858) 433918.8500N/0841553.9700W (3.23)	703 TREE (26-142172) 433914.6300N/0841547.4100W (2.89)
683 TREE (26-142451) 433918.5700N/0841552.4800W (2.82)	695 TREE (26-142796) 433915.8200N/0841554.3700W (0.89)
FINAL TYPE LNAV	
34:1	
716 TREE (26-142153) 433926.5800N/0841620.6700W (37.84)	737 TREE (26-142548) 433927.1700N/0841633.6800W (35.34)
718 TREE (26-142604) 433927.9500N/0841624.5900W (34.53)	711 TREE (26-141935) 433925.1900N/0841620.2900W (31.48)
710 TREE (26-142226) 433927.9700N/0841622.1000W (31.22)	709 TREE (26-141848) 433930.1300N/0841623.6200W (30.59)
713 TREE (26-141876) 433924.9100N/0841622.7800W (28.4)	703 TREE (26-141992) 433929.1500N/0841620.9100W (28.21)
717 TREE (26-142658) 433925.7000N/0841625.7400W (28.03)	713 TREE (26-030119) 433920.5100N/0841619.8200W (27.4)
710 TREE (26-141845) 433926.4500N/0841623.0500W (27.18)	711 TREE (26-142066) 433929.3200N/0841626.1300W (26.68)
697 TREE (26-142174) 433926.0500N/0841616.7400W (25.41)	697 TREE (26-030237) 433928.2500N/0841618.8200W (24.78)
677 TREE (26-141985) 433928.7300N/0841609.6000W (22.77)	712 TREE (26-141942) 433926.9900N/0841627.6500W (21.37)
701 TREE (26-030118) 433929.0200N/0841623.6700W (20.84)	677 TREE (26-142522) 433929.8600N/0841611.5400W (20.82)
685 TREE (26-142051) 433931.0100N/0841617.5500W (19.27)	714 TREE (26-142811) 433928.2800N/0841630.8800W (19.24)
689 TREE (26-030236) 433926.3200N/0841616.0200W (19.16)	709 TREE (26-142361) 433928.5600N/0841628.6200W (18.89)
684 TREE (26-142397) 433931.0800N/0841617.2800W (18.88)	705 TREE (26-094816) 433928.0000N/0841627.2500W (16.62)
666 TREE (26-142155) 433932.8900N/0841610.9500W (15.43)	710 TREE (26-142208) 433925.5800N/0841628.8600W (15.01)
686 TREE (26-142853) 433930.7700N/0841620.6200W (14.16)	700 TREE (26-141994) 433920.4300N/0841621.2700W (11.56)
661 TREE (26-141907) 433931.2500N/0841609.4800W (10.74)	671 TREE (26-142124) 433928.3500N/0841612.8300W (10.15)
708 TREE (26-142707) 433926.8400N/0841631.6100W (9.73)	665 TREE (26-042602) 433927.0400N/0841609.5200W (8.41)
652 TREE (26-141957) 433930.0400N/0841605.1000W (8.15)	661 TREE (26-142800) 433931.4600N/0841612.0600W (6.22)
645 TREE (26-142493) 433933.7700N/0841605.4300W (6.08)	699 TREE (26-142229) 433924.3200N/0841627.8000W (4.12)
701 TREE (26-141933) 433920.5500N/0841625.9800W (3.92)	667 TREE (26-142043) 433926.2000N/0841613.0200W (2.6)
695 TREE (26-142673) 433920.7600N/0841624.0400W (1.87)	630 TRAVERSE_WAY:PUBLIC_ROAD (26-142140) 433936.1000N/0841601.6300W (1.66)
635 TREE (26-142715) 433933.0700N/0841601.9500W (1.55)	630 TRAVERSE_WAY:PUBLIC_ROAD (26-141870) 433935.0000N/0841601.6300W (0.02)
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.

LPV AND LNAV/VNAV NOT DEVELOPED DUE TO VGS PENETRATIONS.

100 FT VEGETATION HEIGHT USED PER FPT.

ORDER 8260.3 CHAPTER 2 APPLIED TO 921 TOWER (26-001461) 433810.00N/0841754.00W.

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**	3.10
WIDTH OF	FINAL	**SEGMENT AT 1000FT POINT**	1.20
TRUE COURSE OF	FINAL	**SEGMENT CONTAINING 1000FT POINT**	059.97
HIGH TERRAIN IN	FINAL	**SEGMENT CONTAINING 1000FT POINT**	700
DISTANCE FROM	THLD	**TO 1500FT POINT**	4.90
WIDTH OF	FINAL	**SEGMENT AT 1500FT POINT**	1.95
TRUE COURSE OF	FINAL	**SEGMENT CONTAINING 1500FT POINT**	059.97
HIGH TERRAIN IN	FINAL	**SEGMENT CONTAINING 1500FT POINT**	700

THRESHOLD COORDINATES (IF STR-IN)	433936.77N/0841555.20W
ARP COORDINATES	433946.53N/0841540.73W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 24 DISTANCE 0.40 NM
FAF COORDINATES	433703.70N/0842200.39W
FIX NAME COORDINATES	

REMARKS

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
CASIMIR L. TABAKA (HOPE N. DENTON)	AJV-A432	01/15/2026	AERONAUTICAL INFORMATION SPECIALIST

QUALITY 37 CHECKED