

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
ILS STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.29**

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> MDW	<u>PROCEDURE NAME</u> ILS OR LOC RWY 31R	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> CHICAGO	<u>STATE</u> IL
<u>AIRPORT ELEVATION</u> 620	<u>TDZE</u> 613	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u> 4W
<u>FACILITY</u> I-MXT	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 2015
			<u>CANCEL/SUSPEND</u>	

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HILLS INT/14.59 DME	IAF	GLEAM INT/11.45 DME					317.56 (I-MXT)	3.14	4000
GLEAM INT/11.45 DME	IF	RUNTS/6.74 DME					317.56 (I-MXT)	4.71	2500
RUNTS/6.74 DME		HOBEL/4.23 DME					317.56 (I-MXT)	2.51	1700

**MISSED APPROACH**

**MAP:**

ILS: DA  
LOC: I-MXT 0.97 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 1100 THEN CLIMBING LEFT TURN TO 2100 ON HEADING 150 AND ON EON VORTAC R-001 UNTIL CROSSING IGENCY INT/EON 19.95 DME THEN CLIMB TO 2600 DIRECT EON VORTAC AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):**

CLIMB TO 1100 THEN CLIMBING LEFT TURN TO 2300 DIRECT CGT VORTAC AND HOLD.

**PROFILE:**

- |  |                                     |          |                  |                   |       |
|--|-------------------------------------|----------|------------------|-------------------|-------|
| 1. PT  | SIDE OF COURSE                      | OUTBOUND | FT WITHIN        | MILES OF          | (IAF) |
| 2. PROFILE STARTS AT HILLS INT/14.59 DME   |                                     |          |                  |                   |       |
| 3. FAC: 317.56   | FAF: HOBEL/4.23 DME                 |          | DIST FAF TO MAP: | DIST FAF TO THLD: | 3.27  |
| 4. MIN ALT: HILLS INT/14.59 DME 5000, GLEAM INT/11.45 DME 4000, RUNTS/6.74 DME 2500, HOBEL/4.23 DME 1700 |                                     |          |                  |                   |       |
| 5. DIST TO THLD FROM OM:   | MM:                                 | IM:      | 150 HAT:         | GS ANT:           | 900   |
| 6. MIN GS INCPT: 1700  | GS ALT AT PFAF: HOBEL/4.23 DME 1700 |          |                  | OM:               | MM:   |
| 7. GS ANGLE: 3.00  | 34:1:                               | 20:1:    | TCH: 47.9        |                   | IM:   |
| 8. MSA FROM: CGT VORTAC 090-270 2800, 270-090 3400   |                                     |          |                  |                   |       |



EQUIPMENT REQUIREMENTS NOTES:

DME AND RADAR REQUIRED

NOTES:

CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE: RWY 31R HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED.  
CHART SPEED ICON IN PLANVIEW AT HILLS: MAX 240 KIAS.

ADDITIONAL FLIGHT DATA:

CHART MANDATORY 5000 AT HILLS.  
CHART MANDATORY 2100 AT IGECY  
HOLD N, RT, 181.00 INBOUND.  
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SW CGT VORTAC, RT, 043.93 INBOUND.  
CHART FAS OBST: 760 TOWER (17-084439) 414519N/0874206W.  
CHART VDP AT 2.04 DME.  
DISTANCE VDP TO THLD 1.08 NM.  
CHART IN PLANVIEW: CGT VORTAC.  
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD - CAT D 800-2 1/4

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
S-ILS 31R	863	4000	250	863	4000	250	863	4000	250	863	4000	250			
S-LOC 31R	1020	5500	407	1020	5500	407	1020	6000	407	1020	6000	407			
CIRCLING	1120	1	500	1120	1	500	1340	2	720	1340	2 1/4	720			

CHANGES - REASONS

04/23/2025: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 02/13/2025.  
PROFILE: DELETED FAF TO MAP DISTANCE.

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZAU, ORD APP CON, MDW ATCT, AMGR

FLIGHT CHECKED BY

GLEN B FREEMAN

Digitally signed by

ROBERT G HAMILTON

Apr 03, 2025

OFFICE

AJF

DATE

04/03/2025

DEVELOPED BY

TROY PURNELL

Digitally signed by

TROY PURNELL

Feb 13, 2025

OFFICE

AJV-A433

DATE

12/20/2024

APPROVED BY

ROBERT G HAMILTON

Digitally signed by

ROBERT G HAMILTON

Apr 03, 2025

OFFICE

AJV-A433

DATE

TITLE

MANAGER



# 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>
MDW	ILS OR LOC RWY 31R	ORIG	CHICAGO	IL	620	I-MXT

## PART A: OBSTRUCTION DATA SEGMENTS

### INITIAL

**FROM** HILLS INT/14.59 DME **TO** GLEAM INT/11.45 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
	3.14				

<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 (17-000525)	413749.69N/0873140.54W	1111	250	50	4D	1000				AT1889	4000
TERRAIN	413918.00N/0873448.00W	738 (700)								AS1500	2200

## COMPUTATIONS

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

### SEGMENT REMARKS:

### INTERMEDIATE

**FROM** GLEAM INT/11.45 DME **TO** RUNTS/6.74 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
	4.71				

<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>
STACK (18-000661)	414228.00N/0873116.00W	1043	500	50	5D	500				AT957	2500
TERRAIN	413924.00N/0873451.00W	695 (700)								AS1500	2200

## COMPUTATIONS

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

### SEGMENT REMARKS:



INTERMEDIATE: STEPDOWN

FROM

RUNTS/6.74 DME

TO

HOBEL/4.23 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
	2.51										
<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	414333.00N/0874057.00W	876	215	8	4B	500					1400
TERRAIN	414333.00N/0874057.00W	675 (700)								AS1000	1700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: ILS

FROM

HOBEL/4.23 DME

TO

RW31R

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
	3.27		DA		250						
<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>
POLE (17-024907)	414642.60N/0874437.68W	632	20	3	1A		34.00:1				863

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LOC

FROM

HOBEL/4.23 DME

TO

I-MXT 0.97 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
	4.23		I-MXT 0.97 DME				407				
<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 (17-084439)	414518.86N/0874205.53W	760	20	3	1A	250					1020

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: ILS

FROM

DA

TO

EON VORTAC

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 675			
<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				2600
TOWER (17-000002)	413320.00N/0875055.00W	1330	50	50	2D	1000					2400
TERRAIN	412448.00N/0874600.00W	836 (800)								AS1500	2300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: LOC

FROM  
I-MXT 0.97 DME

TO  
EON VORTAC

RNP	DISTANCE	PAT	MAP				HAT	HMAS			
										770	
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2600
TOWER (17-000002)	413320.00N/0875055.00W	1330	50	50	2D	1000					2400
TERRAIN	412448.00N/0874600.00W	836 (800)								AS1500	2300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH ALTERNATE: ILS

FROM  
DA

TO  
CGT VORTAC

RNP	DISTANCE	PAT	MAP				HAT	HMAS			
										675	
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2300
TOWER (17-002211)	412715.00N/0874322.00W	1290	500	50	5D	1000					2300
TERRAIN	412524.00N/0874342.00W	800 (800)								AS1500	2300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSSED APPROACH ALTERNATE: LOC

FROM

I-MXT 0.97 DME

TO

CGT VORTAC

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 770			
<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				2300
TOWER (17-002211)	412715.00N/0874322.00W	1290	500	50	5D	1000					2300
TERRAIN	412524.00N/0874342.00W	800 (800)								AS1500	2300

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											
STACK (17-001632)	414606.00N/0874537.00W	1.30	500	811	20	3	1A	300			1120
CATEGORY B											
STACK (17-001632)	414606.00N/0874537.00W	1.83	500	811	20	3	1A	300			1120
CATEGORY C											
STACK (17-022572)	414943.00N/0874224.00W	2.87	720	864	500	50	5D	300		XP176	1340
CATEGORY D											
TOWER (17-000018)	414956.66N/0874220.96W	3.75	720	915	20	10	1B	300		XP125	1340

CIRCLING REMARKS:

XP - TO MATCH OTHER PUBLISHED CURRENT MINS. XP - TO MATCH OTHER PUBLISHED CURRENT MINS.



MSA

CENTER

CGT VORTAC

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
090-270	TOWER (18-000994)	412059.34N/0872358.09W	139	12.4	1735	250	50	4D	1000			2800
270-090	BUILDING (17-000687)	415244.00N/0873809.00W	351	22.3	2325	50	50	2D	1000			3400

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:





PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZAU ARTCC, ORD APP CON, MDW TOWER

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>
ASOS	MDW	24	MDW	0	Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>

WX REMARKS:

24 HOUR ATCT HAS REDUNDANT ALTIMETER REPORTING EQUIPMENT. NO BACK UP ALTIMETER SOURCE NEEDED.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
I-MXT	MDW ATCT	24	1

<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW13R - MIRL	BSC-G	
RW31L - MIRL	BSC-G	
RW04L - MIRL, PAPI-4L	NPI-G	
RW22R - MIRL, PAPI-4L	NPI-G	
RW04R - HIRL, REIL, C/LINE, PAPI-4L	PIR-G	APPROACH, ROLL OUT
RW13L - LDIN, C/LINE, HIRL, PAPI-4R	PIR-G	APPROACH, ROLL OUT
RW13C - LDIN, C/LINE, HIRL, PAPI-4R	PIR-G	APPROACH, ROLL OUT
RW22L - C/LINE, HIRL, REIL, PAPI-4R	PIR-G	APPROACH, ROLL OUT
RW31C - LDIN, HIRL, C/LINE, REIL, PAPI-4L	PIR-G	APPROACH, ROLL OUT
RW31R - LDIN, C/LINE, REIL, HIRL, PAPI-4L	PIR-G	APPROACH, ROLL OUT

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
3.00	611.9	47.9	611.0	900	3.00	63.4

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<div>X</div>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	696
ON CENTERLINE	<div>X</div>	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	S-ILS, S-LOC
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<u>AIRPORT ID</u> MDW	<u>PROCEDURE NAME</u> ILS OR LOC RWY 31R	<u>AMDT NO.</u> ORIG	<u>CITY</u> CHICAGO	<u>STATE</u> IL	<u>AIRPORT ELEVATION</u> 620	<u>FACILITY</u> I-MXT
34:1						
632 POLE (17-024907) 414642.60N/0874437.68W (0.4)						
<u>PENETRATIONS REMARKS:</u>						

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

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

<u>PENETRATIONS REMARKS:</u>

**PART C: GENERAL REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
ORDER 8260.3 CHAPTER 2 APPLIED TO 860 AAO 414418.00N/0874118.00W.  
VEGETATION USED 100FT 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	2.95
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.86
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	313.56
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	600
DISTANCE FROM	FAF	TO 1500FT POINT	1.91
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	3.02
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	313.56
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	700

THRESHOLD COORDINATES (IF STR-IN)	414650.00N/0874444.12W
ARP COORDINATES	414708.32N/0874509.82W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 22L DISTANCE 0.58 NM
FAF COORDINATES	414434.81N/0874134.43W
FIX NAME COORDINATES	

**REMARKS**

THLD DISPLACED 696FT, ACTUAL COORDINATES: 414645.27N/0874437.47W

**PART E: PREPARED BY**

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
TROY PURNELL	AJV-A433	12/20/2024	



AIRPORT ID  
MDW

PROCEDURE NAME  
ILS OR LOC RWY 31R

AMDT NO.  
ORIG

CITY  
CHICAGO

STATE  
IL

AIRPORT ELEVATION  
620

FACILITY  
I-MXT

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