

**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> CAD	<u>PROCEDURE NAME</u> ILS OR LOC RWY 7	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> CADILLAC	<u>STATE</u> MI
<u>AIRPORT ELEVATION</u> 1307	<u>TDZE</u> 1307	<u>SUPERSEDED</u> ILS OR LOC RWY 7	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 12/02/2021
<u>FACILITY</u> I-MAY	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 4W
				<u>EPOCH YEAR</u> 1985
				<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>
MIXXR/I-MAY 14.99 DME/RADAR	IF	WEXOR LOM/I-MAY 6.45 DME					070.35	8.54	3200

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.46 NM AFTER WEXOR LOM/I-MAY 6.45 DME OR AT I-MAY 0.99 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2400 THEN CLIMBING RIGHT TURN TO 3200 DIRECT WEXOR LOM/I-MAY 6.45 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT R SIDE OF COURSE 250.35 OUTBOUND 3600 FT WITHIN 10 MILES OF WEXOR LOM/I-MAY 6.45 DME (IAF)
-
- FAC: 070.35 FAF: WEXOR LOM/I-MAY 6.45 DME DIST FAF TO MAP: 5.46 DIST FAF TO THLD: 5.46
- MIN ALT: WEXOR LOM/I-MAY 6.45 DME 3200
- DIST TO THLD FROM OM: 5.46 MM: IM: 150 HAT: GS ANT: 859
- MIN GS INCPT: 3200 GS ALT AT PFAF: OM: 3091 MM: IM:
- GS ANGLE: 3.00 34:1 20:1 TCH: 44.8
- MSA FROM: WEXOR LOM 4000



EQUIPMENT REQUIREMENTS NOTES:

ADF REQUIRED.
RADAR REQUIRED FOR PROCEDURE ENTRY.

NOTES:

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 7 ALL CATS.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: CIRCLING NA TO RWYS 18 AND 36.
CHART NOTE: RWY 7 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 7 CAT C/D VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 070.35 INBOUND.
FAS OBST: 1523 AAO 441457N/0853151W.
CHART VDP AT 2.34 DME.
DISTANCE VDP TO THLD 1.35 NM.
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
S-ILS 07	1557	3/4	250	1557	3/4	250	1557	3/4	250	1557	3/4	250			
S-LOC 07	1780	3/4	473	1780	3/4	473	1780	1 1/8	473	1780	1 1/8	473			
CIRCLING	1820	1	513	1840	1	533	1860	1 1/2	553	2060	2 1/2	753			

CHANGES - REASONS

1. INCREASED S-ILS DA/HAT FROM 1507/200 TO 1557/250. – TO REMOVED NOTAM FDC 4/3747; NEW CONTROLLING OBSTACLE.
2. INCREASED S-LOC MDA/HAT FROM 1760/453 TO 1780/473; VISIBILITY CAT C AND D FROM 1 TO 1 1/8. – NEW CONTROLLING OBSTACLE.
3. DECREASED CIRCLING CAT A MDA/HAT FROM 1840/533 TO 1820/513; CAT C FROM 2040/733 TO 1860/553, VISIBILITY FROM 2 TO 1 1/2. - TO MATCH RNAV (GPS) RWY 25.
4. ADDED CHART NOTE: RWY 7 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. – 34:1 PENETRATIONS EXIST.
5. UPDATED ADDITIONAL FLIGHT DATA: FAS OBST FROM "1500 AAO 441518N/0853021W" TO "1523 AAO 441457N/0853151W." – NEW NON-PRECISION CONTROLLING OBSTACLE.
6. UPDATED ADDITIONAL FLIGHT DATA: CHART VDP AT FROM 2.28 DME TO 2.34 DME; DISTANCE VDP TO THLD FROM 1.29 NM TO 1.35 NM. – S-LOC 7 MDA INCREASED.



AIRPORT ID
CAD

PROCEDURE NAME
ILS OR LOC RWY 7

ORIGINAL/AMENDMENT
1A

CITY
CADILLAC

STATE
MI

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA

OTHER: ZMP, AMGR

FLIGHT CHECKED BY

MARC WEBBER

Digitally signed by

CASIMIR L TABAKA

Mar 19, 2025

OFFICE

AJF

DATE

03/18/2025

DEVELOPED BY

CASIMIR L. TABAKA (BARBARA GORMAN)

Digitally signed by

CASIMIR L TABAKA

Feb 25, 2025

OFFICE

AJV-A430

DATE

12/16/2024

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by

CASIMIR L TABAKA

Feb 25, 2025

OFFICE

AJV-A430

DATE

TITLE
MANAGER



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

<u>AIRPORT ID</u> CAD	<u>PROCEDURE NAME</u> ILS OR LOC RWY 7	<u>AMDT NO.</u> 1A	<u>CITY</u> CADILLAC	<u>STATE</u> MI	<u>AIRPORT ELEVATION</u> 1307	<u>FACILITY</u> I-MAY
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PART A: OBSTRUCTION DATA SEGMENTS

INTERMEDIATE

FROM MIXXR/I-MAY 14.99 DME/RADAR	TO WEXOR LOM/I-MAY 6.45 DME
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<u>RNP</u>	<u>DISTANCE</u> 8.54	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (26-002421)	441316.00N/0853651.00W	1710	500	125	5E	500				AC125 AT865	3200
TERRAIN	441436.00N/0854148.00W	1456 (1500)								AT1500	3000

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

INTERMEDIATE: PT

FROM 10 NM	TO WEXOR LOM/I-MAY 6.45 DME
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<u>RNP</u>	<u>DISTANCE</u> 10.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (26-002421)	441316.00N/0853651.00W	1710	500	125	5E	500				AC125 AT865	3200
TERRAIN	441406.00N/0853930.00W	1450 (1500)								AS1500	3000

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



AIRPORT ID
CAD

PROCEDURE NAME
ILS OR LOC RWY 7

AMDT NO.
1A

CITY
CADILLAC

STATE
MI

AIRPORT ELEVATION
1307

FACILITY
I-MAY

FINAL: ILS

FROM
GP INTCP

TO
RW07

RNP	DISTANCE	PAT	MAP	HAT	HMAS
	5.46		DA	250	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (26-175657)	441615.29N/0852607.71W	1343	20	3	1A		34.00:1				1557

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LOC

FROM
WEXOR LOM/I-MAY 6.45 DME

TO
5.46 NM AFTER WEXOR LOM/I-MAY 6.45 DME OR AT I-MAY 0.99 DME

RNP	DISTANCE	PAT	MAP	HAT	HMAS
	5.46		5.46 NM AFTER WEXOR LOM/I-MAY 6.45 DME OR AT I-MAY 0.99 DME	473	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	441457.00N/0853151.00W	1523	250		4	250					1780

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
CAD

PROCEDURE NAME
ILS OR LOC RWY 7

AMDT NO.
1A

CITY
CADILLAC

STATE
MI

AIRPORT ELEVATION
1307

FACILITY
I-MAY

PROCEDURE TURN

FROM
WEXOR LOM/I-MAY 6.45 DME

TO
10 NM

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (26-000204)	441633.00N/0854249.00W	2549	500	125	5E	1000					3600
TERRAIN	442100.00N/0844021.00W	1656 (1700)								AS1500	3200

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
WEXOR LOM/I-MAY 6.45 DME

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
1370

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3200
TOWER (26-000695)	441456.00N/0851848.00W	1956	250	50	4D	1000					3000
TERRAIN	442015.00N/0853021.00W	1640 (1600)								AS1500	3100

COMPUTATIONS

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

SEGMENT REMARKS:



AIRPORT ID
CAD

PROCEDURE NAME
ILS OR LOC RWY 7

AMDT NO.
1A

CITY
CADILLAC

STATE
MI

AIRPORT ELEVATION
1307

FACILITY
I-MAY

MISSED APPROACH: LOC

FROM
5.46 NM AFTER WEXOR LOM/I-MAY 6.45 DME OR AT I-MAY 0.99 DME

TO
WEXOR LOM/I-MAY 6.45 DME

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
1530

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3200
TERRAIN	442015.00N/0853021.00W	1640 (1600)								AS1500	3100

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											
TREE	441539.00N/0852345.00W	1.31	513	1508	250	10	4B	300			1820
CATEGORY B											
WATER_TOWER (26-041622)	441525.70N/0852344.09W	1.85	533	1528	50	20	2C	300			1840
CATEGORY C											
VERTICAL_STRUCTURE (26-033734)	441627.72N/0852826.26W	2.91	553	1554	50	20	2C	300			1860
CATEGORY D											
TOWER (26-000359)	441317.00N/0852406.00W	3.81	753	1759	50	20	2C	300			2060

CIRCLING REMARKS:

MSA

CENTER **RADIUS**
WEXOR LOM 25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (26-000202)	440812.00N/0852033.00W	128	10.7	2999	250	50	4D	1000			4000

MSA REMARKS:

QUALITY
25
CHECKED

AIRPORT ID
CAD

PROCEDURE NAME
ILS OR LOC RWY 7

AMDT NO.
1A

CITY
CADILLAC

STATE
MI

AIRPORT ELEVATION
1307

FACILITY
I-MAY

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZMP ARTCC, LAN FSS

WX SERVICE AWOS-3P	LOCATION CAD	HRS OPERATION 24	ALTIMETER SOURCE CAD	DISTANCE 0.20	WMSCR Y	ADJUSTMENTS 0
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BACK-UP WX SERVICE ASOS	LOCATION HTL	HRS OPERATION 24	ALTIMETER SOURCE HTL	DISTANCE 32.48	WMSCR Y	ADJUSTMENTS 97
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WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KCAD 1307, KHTL 1149
RA = 96.8.

PRIMARY NAVAID I-MAY	MONITOR POINT UNMONITORED	HRS OPERATION 24	CAT 3
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APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW18		
RW36		
RW07 - MALSF (PCL), HIRL (PCL), REIL (PCL), VASI-4L (PCL)	PIR-G	
RW25 - REIL (PCL), HIRL (PCL), PAPI-4L (PCL)	PIR-G	

GLIDESLOPE ANGLE 3.00	ELEV RWY THRESHOLD 1306.5	TCH 44.8	ELEV GS ANTENNA 1304.3	DISTANCE FROM RWY 859	VGSI ANGLE 3.00	TCH 40.8
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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

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	ILS, LOC
34:1	
1343 TREE (26-175657) 441615.2900N/0852607.7100W (1.25)	
PENETRATIONS REMARKS:	



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.

CONTINGENCY NOTES:

WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HTL ALTIMETER SETTING AND INCREASE S-ILS 7 DA TO 1654 FEET; INCREASE ALL MDAS 100 FEET AND S-LOC 7 VISIBILITY CATS C AND D 1/4 SM, AND CIRCLING VISIBILITY CAT C AND D 1/2 SM.

WHEN USING HTL ALTIMETER SETTING, INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 7 ALL CATS.

FOR INOPERATIVE ALS WHEN USING HTL ALTIMETER SETTING, INCREASE S-LOC 7 CATS C AND D TO 1 5/8 SM.

VDP NA WHEN USING HTL ALTIMETER SETTING.

ADDED RADAR REQUIRED FOR PROCEDURE ENTRY DUE TO ATC WILL REQUIRE RADAR TO MIXXR AND WEXOR LOM.

100 FT VEGETATION PER FPT.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1533 AAO 441442N/0853315W.

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	2.98
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.86
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	066.35
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1300
DISTANCE FROM	THLD	TO 1500FT POINT	4.66
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.23
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	066.35
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1300

THRESHOLD COORDINATES (IF STR-IN)

441622.37N/0852551.04W

ARP COORDINATES

441631.25N/0852508.20W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

RUNWAY 7 DISTANCE 0.53 NM

FAF COORDINATES

441410.74N/0853248.79W

FIX NAME COORDINATES

IF MIXXR 441044.15N/0854340.36W

REMARKS

PART E: PREPARED BY

NAME

CASIMIR L. TABAKA (BARBARA GORMAN)

OFFICE

AJV-A430

DATE

12/16/2024

TITLE

AERONAUTICAL INFORMATION SPECIALIST



AIRPORT ID
CAD

PROCEDURE NAME
ILS OR LOC RWY 7

AMDT NO.
1A

CITY
CADILLAC

STATE
MI

AIRPORT ELEVATION
1307

FACILITY
I-MAY

