

<b>RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33</b>				Bearings, headings, courses, 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 in feet RVR.											
<b>TERMINAL ROUTES</b>										<b>MISSED APPROACH</b>					
FROM	TO			COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW24L  CLIMB TO 3000 DIRECT HASLE AND ON TRACK 177.07 TO SAROW AND HOLD.  ADDITIONAL FLIGHT DATA: HOLD N, RT, 178.51 INBOUND. CHART FAS OBST: 987 CONTROL_TOWER 412441N/0815020W DISTANCE TO THLD FROM 200 HAT: 0.47 NM. CHART VDP AT 1.33 NM TO RW24L* *LNAV ONLY. WAAS CHANNEL # 77506 REFERENCE PATH ID: W24B CHART CIRCLING ICON. LTP HAE: 205.3 M						
CXR VOR/DME	SUPME (TF) (FB) (RNP 2.00)			284.38 / 16.93			4000								
SUPME (IAF)	RILKE (NOPT) (TF) (FB) (RNP 1.00)			280.93 / 4.05			3000								
RILKE (IF/IAF)	SCOTZ (TF) (FB) (RNP 1.00)			238.10 / 5.89			3000								
SCOTZ (FAF)	BLESU/2.00 NM TO RW24L (TF) (FB) (RNP 0.30)			238.04 / 4.79											
BLESU/2.00 NM TO RW24L	RW24L (MAP) (TF) (FO) (RNP 0.30)			238.04 / 2.00											
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NE RILKE, RT, 238.10 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 238.04 FAF: SCOTZ DIST FAF TO MAP: 6.79 THLD: 6.79 4. MIN. ALT: RILKE 3000, SCOTZ 3000, BLESU/2.00 NM TO RW24L 1460* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 3000 GS ALT AT: SCOTZ 3000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 51.7 34:1 IS CLEAR 8. MSA FROM: RW24L 3100															
										MAG VAR: 8W			EPOCH YEAR: 2020		
<b>MINIMUMS</b>															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD						
CATEGORY >>>>>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	986	1800	200	986	1800	200	986	1800	200	986	1800	200			
LNAV/VNAV DA	1168	4000	382	1168	4000	382	1168	4000	382	1168	4000	382			
LNAV MDA	1260	2400	474	1260	2400	474	1260	5000	474	1260	5000	474			
CIRCLING	1420	1	621	1420	1	621	1420	1 3/4	621	1420	2	621			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18C (0F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: CIRCLING RWY 10 NA AT NIGHT.															
CITY AND STATE		ELEVATION: 799 TDZE: 786			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:			
CLEVELAND, OH		AIRPORT NAME:			CLEVELAND-HOPKINS INTL		RNAV (GPS) RWY 24L, AMDT 3E					AMDT: 3D			
							7 DECEMBER 2017					DATED 10/12/2017			



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW24L (MAP)	986 MSL (CA)	238.04	
986 MSL	HASLE (DF) (FB) (RNP 1.00)		
HASLE	SAROW (TF) (FO) (RNP 1.00)	177.07 / 15.23	3000



CITY AND STATE  
CLEVELAND, OH

ELEVATION: 799 TDZE: 786  
AIRPORT NAME:  
CLEVELAND-HOPKINS INTL

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 24L, AMDT 3E  
7 DECEMBER 2017

SUP:  
AMDT: 3D  
DATED: 10/12/2017

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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**FAS DATA BLOCK INFORMATION**

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCLE
RUNWAY	RW24L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W24B
LTP/FTP LATITUDE	412455.1400N
LTP/FTP LONGITUDE	0815031.3700W
LTP/FTP ELLIPSOIDAL HEIGHT	+02053
FPAP LATITUDE	412351.8540N
FPAP LONGITUDE	0815211.3815W
THRESHOLD CROSSING HEIGHT (TCH)	00051.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 2C9AD99A

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02395
FPAP ORTHOMETRIC HEIGHT	+02395

QUALITY  
25  
CHECKED

CITY AND STATE  CLEVELAND, OH	ELEVATION: 799 AIRPORT NAME:  CLEVELAND-HOPKINS INTL	TDZE: 786  RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  RNAV (GPS) RWY 24L, AMDT 3E 7 DECEMBER 2017	SUP:
				AMDT: 3D
				DATED: 10/12/2017