

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33			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.											
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW32 CLIMB TO 1100 THEN CLIMBING LEFT TURN TO 2300 DIRECT VVW VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 060.50 INBOUND. CHART FAS OBST: 767 T-L TWR 413316N/0832654W DISTANCE TO THLD FROM 250 HAT: 0.66 NM. WAAS CHANNEL # 70524 REFERENCE PATH ID: W32A CHART CIRCLING ICON. LTP HAE: 153.9 M							
VVW VOR/DME		WIMLU (FO)		098.53 / 14.55			2300									
VASHO (IAF)		WIMLU (NOPT) (FB)		277.97 / 16.36			2300									
AMRST (IAF)		WIMLU (NOPT) (FB)		316.05 / 19.03			2300									
WIMLU (IF/IAF)		HOKVO (FB)		321.16 / 5.18			2200									
HOKVO (FAF)		CETYA/1.60 NM TO RW32 (FB)		321.10 / 3.22												
CETYA/1.60 NM TO RW32 (SEE FORM 8260-10)		RW32 (MAP) (FO)		321.10 / 1.60												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SE WIMLU, RT, 321.16 INBOUND, 2300 FT. IN LIEU OF PT (IAF) 3. FAC: 321.10 FAF: HOKVO DIST FAF TO MAP: 4.82 THLD: 4.82 4. MIN. ALT: WIMLU 2300, HOKVO 2200, CETYA/1.60 NM TO RW32 1160* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2200 GS ALT AT: HOKVO 2200 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS NOT CLEAR 34:1 IS NOT CLEAR 8. MSA FROM: RW32 3100										MAG VAR: 7W EPOCH YEAR: 2010						
MINIMUMS																
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	871	1	250	871	1	250	871	1	250	871	1	250				
LNAV/VNAV DA	1080	1 5/8	459	1080	1 5/8	459	1080	1 5/8	459	1080	1 5/8	459				
LNAV MDA	1020	1	399	1020	1	399	1020	1 1/8	399	1020	1 1/8	399				
CIRCLING	1080	1	457	1100	1	477	1200	1 1/2	577	1320	2 1/4	697				
NOTES: CHART NOTE: NIGHT LANDING: RWY 14 NA. CHART NOTE: BARO-VNAV NA WHEN USING TOLEDO EXPRESS ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C (-5F) OR ABOVE 54C (130F). (CONTINUED ON PAGE 2)																
CITY AND STATE TOLEDO, OH		ELEVATION: 623 TDZE: 621 AIRPORT NAME: TOLEDO EXECUTIVE		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, AMDT 1 21 JULY 2016					SUP: AMDT: ORIG-B DATED 11/16/2015					

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
RW32 (MAP)	1100 MSL	321.06	1100
1100 MSL	VWV VOR/DME (FO)		2300

NOTES, (CONT.):

CHART NOTE: DME/DME RNP-0.3 NA.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT AMRST ON V426 SOUTHBOUND.

*LNAV ONLY

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TOLEDO EXPRESS ALTIMETER SETTING AND INCREASE LPV DA TO 914, LNAV/VNAV TO 1123, AND ALL VISIBILITIES 1/8 MILE. INCREASE ALL MDA 60

FEET AND INCREASE LNAV CATS C AND D VISIBILITY 1/4 MILE.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT VWV VOR/DME ON AIRWAY RADIALS 015 CW 150.

CITY AND STATE
TOLEDO, OH

ELEVATION: 623 TDZE: 621
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RNAV (GPS) RWY 32, AMDT 1
21 JULY 2016

SUP:
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QUALITY
18
CHECKED

**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	KTDZ
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	413338.1925N
LTP/FTP LONGITUDE	0832832.5815W
LTP/FTP ELLIPSOIDAL HEIGHT	+01539
FPAP LATITUDE	413440.1640N
FPAP LONGITUDE	0832957.9100W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1080
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 2C0F8A85

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01893
FPAP ORTHOMETRIC HEIGHT	+01893

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RNAV (GPS) RWY 32, AMDT 1
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U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33												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.		
ARINC SUMMARY - KTDZ ROUTES														
TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
AMRST	010	AMRST	IF	FB										E A
AMRST	020	WIMLU	TF	FB	1.0	316.1						AA 02300		EE B
VASHO	010	VASHO	IF	FB										E A
VASHO	020	WIMLU	TF	FB	1.0	278.0						AA 02300		EE B
VWV	010	VWV	IF	FB										V
VWV	020	WIMLU	TF	FO	2.0	098.5						AA 02300		EY
VWV	030	WIMLU	HF	FO		321.2			R			AA 02300		EE A
	010	WIMLU	IF	FB								AA 02300		E I
	020	HOKVO	TF	FB	1.0	321.2				RW32		AA 02200		E F
	021	CETYA	TF	FB	0.3	321.1		3.00				AA 01160 GS 01176		E S
	030	RW32	TF	FO	0.3	321.1		3.00				AT 00666		GY M
	040		CA	FB		321.1						AA 01100		M
	050	VWV	DF	FO					L			AA 02300		VY
	060	VWV	HM	FO		060.5			R			AA 02300		VE
POINTS														
POINT NAME	LATITUDE			LONGITUDE										
VWV	N412705.35			W0833819.30										
AMRST	N411442.18			W0825919.80										
VASHO	N412625.87			W0825713.91										
CETYA	N413231.40			W0832700.69										
HOKVO	N413017.04			W0832356.09										
WIMLU	N412640.41			W0831859.16										
RUNWAYS														
RUNWAY	THRESHOLD LATITUDE			THRESHOLD LONGITUDE			THRESHOLD ELEVATION			PROCEDURE TCH				
RW32	N413338.19			W0832832.58			00621			45				

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			21 JULY 2016	DATED: 11/16/2015