

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: RW23 CLIMB TO 3000 DIRECT BIYAS WP AND VIA 138.53 TRACK TO FEDIT WP AND VIA 058.52 TRACK TO EMI VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 297.64 INBOUND FAS OBST: 558 TREE 392557.71N/0772010.72W 766 TOWER 392742.00N/0771820.00W DISTANCE TO THLD FROM 394 HAT: 1.12 NM * CHART VDP AT 2.19 NM TO RW23 * LNAV ONLY ROUTE TYPE: A, R APCH ROUTE QUALIFIER 1: J APCH ROUTE QUALIFIER 2: S WAAS CHANNEL # 81802 APCH ID: W23A MAG VAR: 8 W EPOCH YEAR: 80					
BINNS (IAF) (40E) (43A)	GISGE (TF) (FB) (40E) (41E) (43I)			223.01/16.46			2800								
EMI VORTAC (IAF) (40V) (43A)	GISGE (TF) (FB) (40E) (41E) (43I)			297.64/11.63			2800								
MULRR (IAF) (40E) (43A)	GISGE (TF) (FB) (40E) (41E) (43I)			135.28/7.07			2800								
GISGE (IF) (40E) (43I)	SHUEY (TF) (FB) (40E) (43F)			228.58/6.15			1900								
RW23 (MAP) (40G) (41Y) (43M)	690 MSL (CA) (42M)			228.53											
690 MSL	BIYAS (DF) (FB) (40E)														
BIYAS (40E)	FEDIT (TF) (FB) (40E)			138.53/7.53											
FEDIT (40E)	EMI VORTAC (TF) (FO) (40V) (41Y) (43H)			058.52/19.13			3000								
1. PT NA SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF) 2. PROFILE STARTS AT GISGE 3. FAC: 228.53 FAF: SHUEY DIST FAF TO MAP: 4.85 THLD: 4.85 4. MIN. ALT: GISGE 2800, SHUEY 1900 5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT: 6. MIN GS INCPT: 1900 GS ALT AT: OM: MM: IM: 7. GS ANGLE: 3.00 TCH: 50.0 34:1 IS NOT CLEAR 8. MSA FROM: RW23 3400															
MINIMUMS															
TAKEOFF:	STANDARD	X	SEE FAA FORM 8260-15A	FOR THIS AIRPORT			ALTERNATE: N A			800-2 1/2					
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	690	1 1/2	394	690	1 1/2	394	690	1 1/2	394	690	1 1/2	394			
LNAV/VNAV DA	1020	2 1/2	724	1020	2 1/2	724	1020	2 1/2	724	1020	2 1/2	724			
LNAV MDA	1020	3/4	724	1020	3/4	724	1020	2	724	1020	2 1/4	724			
CIRCLING	1020	2 1/2	717	1020	2 1/2	717	1020	2 1/2	717	1080	2 1/2	777			
NOTES: CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT EMI VORTAC ON AIRWAY RADIALS 269 CW 299 DME/DME RNP-0.3 NA BARO-VNAV NA BELOW -15C (5F). CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 5 AND RWY 30 NA AT NIGHT. INOPERATIVE TABLE DOES NOT APPLY TO LPV, LNAV/VNAV ALL CATS, AND LNAV CAT C.															
CITY AND STATE		ELEVATION: 303 TDZE: 296		FACILITY IDENTIFIER: RNAV		PROCEDURE NO. / AMDT. NO. / EFFECTIVE DATE: AUG 5 2004						SUP: ORG			
FREDERICK, MD		FREDERICK MUNI		RNAV (GPS) Z RWY 23, ORIG-A						DATE 01/22/2004					

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV

STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES TITLE 14 CFR PART 97.33

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FAS DATA BLOCK INFORMATIONDATA FIELDDATA

Operation Type 0
SBAS Service Provider Identifier 0
Airport Identifier KFDD
Runway Number RW23
Approach Performance Designator 0
Route Indicator Z
Reference Path Data Selector 0
Reference Path Indicator (Approach ID) W23A
LTP/FTP Latitude 392513.8000N
LTP/FTP Longitude 0772206.3800W
LTP/FTP Ellipsoidal Height +00534
FPAP Latitude 392422.5100N
FPAP Longitude 0772302.8400W
Threshold Crossing Height (TCH) 00050.0
TCH Units Selector (meter or feet used) F
Glidepath Angle (GPA) 03.00
Course Width at Threshold 106.75
Horizontal Alert Limit (HAL) 40.0
Vertical Alert Limit (VAL) 50.0

Length Offset 0184

CRC Remainder 2473B822

Additional Path Point Record Information

ICAO Code K6
LTP Orthometric Height +00860
FPAP Orthometric Height +00860

CITY AND STATE

FREDERICK, MD

ELEVATION: 303 TDZE: 296

AIRPORT NAME:

FREDERICK MUNI

FACILITY
IDENTIFIER:

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