

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**

TITLE 14 CFR PART 97.33

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> 3H4	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 16	<u>ORIGINAL/AMENDMENT</u> 2A	<u>CITY</u> HILLSBORO	<u>STATE</u> ND		
<u>AIRPORT ELEVATION</u> 906	<u>TDZE</u> 906	<u>SUPERSEDED</u> RNAV (GPS) RWY 16	<u>ORIGINAL/AMENDMENT</u> 2	<u>DATED</u> 01/08/2015	<u>MAG VAR</u> 5E	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 12 AUGUST 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 076/30 CW 256/30	NOPT	GEMIH	IF/IAF	4000
2. 256/30 CW 076/30		256/10 CW 076/10		4200
3. 256/10 CW 076/10		GEMIH	IF/IAF	4000

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
GEMIH	IF/IAF	BEETZ		TF	FB	1.00	165.68	7.20	2600
BEETZ	FAF	RW16	MAP	TF	FO	0.30	165.70	5.18	
RW16	MAP	1222 MSL		CA			165.70		
1222 MSL		IKLAJ		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW16

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT IKLAJ AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD N GEMIH, RT, 165.68 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 165.70FAF: BEETZDIST FAF TO MAP: 5.18DIST FAF TO THLD: 5.18

4. MIN ALT: GEMIH 4000, BEETZ 2600

5. DIST TO THLD FROM OM:MM:IM:150 HAT:316 HAT: 0.85GS ANT:

6. MIN GP INCPT: 2600GP ALT AT FAF : BEETZ 2600OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 45.0

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: BARO-VNAV NA.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: USE FARGO ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART: FARGO ASOS
HOLD S, RT, 345.76 INBOUND.
CHART FAS OBST: 1142 STACK 472618N/0970345W.
CHART 1391 TOWER 472718N/0970252W.
WAAS CHANNEL # 86837
REFERENCE PATH ID: W16A
LTP HAE: 249.6 M

MINIMUMS:

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

ALTERNATE: NA ☒

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
LPV DA	1222	1	316	1222	1	316	1222	1	316		NA				
LNAV/VNAV DA	1255	1	349	1255	1	349	1255	1	349		NA				
LNAV MDA	1520	1	614	1520	1	614	1520	1 3/4	614		NA				
CIRCLING	1520	1	614	1520	1	614	1520	1 3/4	614		NA				



CHANGES - REASONS

1. CHART FAS OBSTACLE UPDATED FROM 1129 AAO 472544N/0970530W TO 1142 STACK 472618N/0970345W- UPDATED LNAV CONTROLLER.
2. INCREASED LNAV MDA/HAT FROM 1460/544 TO 1520/614- NEW CONTROLLING OBSTACLE
3. UPDATED MISSED INSTRUCTIONS FROM "CLIMB TO 4000 DIRECT IKLAJ AND HOLD" TO "CLIMB TO 4000 DIRECT IKLAJ AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000"- CLIMB IN HOLD IS REQUIRED.
4. UPDATED VISIBILITIES FOR LNAV/VNAV ALL CATS FROM 1 1/8 TO 1 AND LNAV CAT C FROM 1 5/8 TO 1 3/4- NEW VIS CHECK AND NEW LNAV MDA/HAT.
5. ADDED CHART NOTE: 20:1 IS CLEAR- NO PENETRATIONS.
6. REMOVED CHART NOTE: DME/DME RNP -0.3 NA- 8260.19I 1-1-5 F(14).
7. ADDED PBN REQUIREMENT NOTE RNP APCH- 8260319I 8-6-8 B(1).
8. REMOVED CHART CIRCLING ICON- PER MANAGEMENT GUIDANCE.
9. UPDATED CHART PROFILE NOTE FROM "VGSI AND RNAV GLIDEPATH NOT COINCIDENT" TO "VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})"- 8260.19I 8-6-9 M.
10. ADDED MAX 6000 TO LINE 2 OF PROFILE- 8260.19I 8-6-7.
11. ADDED 316 HAT: 0.85 TO PROFILE VIEW- 8260.19I 8-6-7.
12. ADDED CHART NOTE: USE FARGO ALTIMETER SETTING- 8260.19I 8-6-9.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAL** ☐ **NBAA** ☒ **OTHER:** ZMP, FAR APP CON, AMGR

FLIGHT CHECKED BY

GREG BAUR

*Digitally signed by***LONNIE EVERHART****OFFICE**

FICO

DATE

06/02/2021

DEVELOPED BY

WARDELL HENNING (CASEY HILL)

*Digitally signed by***LONNIE EVERHART**

Jun 03, 2021

OFFICE

AJV-A432

DATE

10/29/2020

APPROVED BY

LONNIE EVERHART

*Digitally signed by***LONNIE EVERHART**

Jun 03, 2021

OFFICE

AJV-A430

DATE**TITLE**
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	3H4
RUNWAY	RW16
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16A
LTP/FTP LATITUDE	472149.9395N
LTP/FTP LONGITUDE	0970341.3675W
LTP/FTP ELLIPSOIDAL HEIGHT	+02496
FPAP LATITUDE	472022.0510N
FPAP LONGITUDE	0970320.2415W
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	1744
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	307A5B73

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02760
FPAP ORTHOMETRIC HEIGHT	+02760

