

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</u> RANDALL	<u>AIRPORT ID</u> K06N	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 26	<u>ORIGINAL/AMENDMENT</u> 1B	<u>CITY</u> MIDDLETOWN	<u>STATE</u> NY
<u>AIRPORT ELEVATION</u> 523	<u>TDZE</u> 523	<u>SUPERSEDED</u> RNAV (GPS) RWY 26	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 06/22/2017	<u>MAG VAR</u> 13W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2000

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>
HELON		HOLZZ		TF	FB	2.00	170.45	5.32	4200
VOLLU		CLAKE		TF	FB	2.00	347.29	16.31	3400
CLAKE	IAF	EMVOC		TF	FB	1.00	344.81	4.89	3000
HOLZZ	IAF	EMVOC		TF	FB	1.00	170.48	5.00	3000
IGN VOR/DME	IAF	EMVOC		TF	FB	1.00	253.69	19.15	3000
EMVOC	IF	APOFA		TF	FB	1.00	255.95	5.00	2100
APOFA	FAF	RW26	MAP	TF	FO	0.30	255.89	4.85	
RW26	MAP	923 MSL		CA			255.89		
923 MSL		WIKMO		DF	FB	1.00			
WIKMO		HUO VOR/DME		TF	FO	1.00	280.50	7.05	3500

MISSED APPROACH

MAP:

LP: RW26
 LNAV: RW26

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3500 DIRECT WIKMO AND ON TRACK 280.50 TO HUO VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3500.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)
2. PROFILE STARTS AT EMVOC
3. FAC: 255.89

FAF: APOFA

DIST FAF TO MAP: 4.85

DIST FAF TO THLD: 4.85
4. MIN ALT: EMVOC 3000, APOFA 2100
5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

GS ANT:
6. MIN GP INCPT:

GP ALT AT FAF :

OM:

MM:

IM:
7. GP ANGLE:

34:1: IS NOT CLEAR

20:1: IS NOT CLEAR

TCH:
8. MSA FROM: RW26 4300

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: PROCEDURE NA AT NIGHT.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT VOLLU ON V374 SOUTHEAST BOUND AND V39 EAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HELON ON V213-249 NORTHEAST BOUND AND T216 WESTBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON IGN VOR/DME AIRWAY RADIALS 203 CW 316.
CHART NOTE: RWY 26 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: USE NEWBURGH ALTIMETER SETTING; WHEN NOT RECEIVED, USE MONTGOMERY ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES.
WAAS CHANNEL #40030
REFERENCE PATH ID: W26A
FAS OBST: 719 AAO 412809N/0741857W, 759 AAO 412637N/0742016W.
HOLD W, RT, 092.82 INBOUND
LTP HAE: 126.6 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
LP MDA	1020	1	497		NA			NA			NA				
LNAV MDA	1060	1	537		NA			NA			NA				
CIRCLING	1080	1	557		NA			NA			NA				



CHANGES - REASONS

- 1. REMOVED "CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 26 NA AT NIGHT" AND REPLACED WITH "CHART NOTE: PROCEDURES NA AT NIGHT" - TO REFLECT CURRENT CRITERIA CHANGE IN USE OF VGSI TO MITIGATE 20:1 PENETRATIONS.
- 2. REMOVED "CHART NOTE: DME/DME RNP-0.3 NA" - TO REFLECT CURRENT CRITERIA AND ADDED RNP APCH TO PBN REQUIREMENTS NOTE.
- 3. REMOVED ADDITIONAL FLIGHT DATA NOTE: "APOFA TO RW26: 3.00/36" AND REPLACED WITH "CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES" - INCORPORATE T-NOTAM 8/9682.
- 4. REMOVED CHART PROFILE NOTE: "VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - NO DECENT ANGLE NEEDED WHEN VISUAL SEGMENT OBSTACLES USED.
- 5. CHANGED FAS DATA: TCH FROM 36 TO 0 AND GPA FROM 3.00 TO 0 - NO DECENT ANGLE NEEDED WHEN VISUAL SEGMENT OBSTACLES USED.
- 6. CHANGED CRC REMAINDER FROM "E84A4D52" TO "DB5B21D5" - FAS DATA CHANGED WITH REMOVAL OF TCH AND GPA VALUES.



COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** AMGR, ZBW, ZNY, NY APP CON.

FLIGHT CHECKED BY

FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS
GROUP (AJW-33) MEMO, DEC 22, 2017.

DEVELOPED BY

LONNIE EVERHART (DAVID ZAHN)

APPROVED BY

LONNIE EVERHART

OFFICE

OFFICE

AJV-5400

OFFICE

AJV-5400

DATE

DATE

05/08/2018

DATE

TITLE



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	06N
RUNWAY	RW26
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W26A
LTP/FTP LATITUDE	412601.2235N
LTP/FTP LONGITUDE	0742313.2080W
LTP/FTP ELLIPSOIDAL HEIGHT	+01266
FPAP LATITUDE	412520.5000N
FPAP LONGITUDE	0742458.5800W
THRESHOLD CROSSING HEIGHT (TCH)	00000.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	00.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1896
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
 CRC REMAINDER	 DB5B21D5

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+01587
FPAP ORTHOMETRIC HEIGHT	+01587



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

<u>AIRPORT</u> RANDALL	<u>AIRPORT ID</u> K06N	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 26	<u>AMDT NO.</u> 1B	<u>CITY</u> MIDDLETOWN	<u>STATE</u> NY	<u>AIRPORT ELEVATION</u> 523	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
HELON

TO
HOLZZ

RNP

DISTANCE

5.32

PAT

MAP

HAT

HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.AAO	414200.00N/0741657.00W	2189	250	125	4E	2000					4200
2.TERRAIN	414133.00N/0741509.00W	1582 (1600)								AS1500	3100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:

FEEDER

FROM
VOLLU

TO
CLAKE

RNP

DISTANCE

16.31

PAT

MAP

HAT

HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.AAO	412312.00N/0740724.00W	1900	250	125	4E	2000				MT-500	3400
4.TERRAIN	412312.00N/0740724.00W	1700 (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 : LP

FROM

RW26

TO

HUO VOR/DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							880				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				3500
14.AAO	412302.25N/0743640.08W	1613	50	20	2C	1000					2700
15.TERRAIN	412609.00N/0743430.00W	1296 (1300)								AS1500	2800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:

MISSED APPROACH : LNAV

FROM

RW26

TO

HUO VOR/DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							920				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				3500
14.AAO	412302.25N/0743640.08W	1613	50	20	2C	1000					2700
15.TERRAIN	412609.00N/0743430.00W	1296 (1300)								AS1500	2800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:



CIRCLING

ALL CATS

X

CAT ACAT BCAT CCAT DCAT ENOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
16.TREE	412634.06N/0742430.34W	1.30	557	739	50	20	2C	300		RA40	1080

CIRCLING REMARKS:

MSA

CENTER	RADIUS
RW26	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	415403.00N/0743221.00W	359	28.8	3242	250	125	4E	1000			4300

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

OBST. 3: FAAO 8260.3B, PARA 1720 B, (1) APPLIED TO MOUNTAINOUS TERRAIN IN FEEDER SEGMENT.
OBST. 13, 14 : 200' AAO USED IN FINAL PER 8260.19, PARA 274 (3)
RWY 26 RUNWAY LENGTH IS 2810. BECAUSE A PROCEDURE (GPS RWY 26) WAS PREVIOUSLY DEVELOPED TO THIS RUNWAY, AC 150/5300-13 NOT APPLIED.
TAA NOT DEVELOPED PER ATC REQUEST.
LPV AND LNAV/VNAV NOT DEVELOPED PER FPT FOR RWY LENGTH AND GQS PENETRATIONS.

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

NEW YORK APP CON, ISP FSS

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
ATIS	KSWF	24	KSWF	13.61	Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
ASOS	KMGJ		KMGJ	7.39	Y	0

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
K06N 522.8, KSWF 490.7, KMGJ 364.0
RA = 36/40.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
APPROACH AND RUNWAY LIGHTING SYSTEM		RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW08 - MIRL (PCL), PAPI-2L		NPI-G	



<u>AIRPORT</u>		<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
RANDALL		K06N	RNAV (GPS) RWY 26	1B	MIDDLETOWN	NY	523	RNAV
Final Type	LNAV RWY 26							
34:1								
600 TREE (36-024859) 412611.93N/0742256.61W (37.65)					595 TREE (36-024849) 412612.54N/0742255.19W (28.99)			
578 TREE (36-024840) 412604.80N/0742255.34W (22.81)					564 TREE (36-024804) 412606.03N/0742303.03W (22.46)			
578 TREE (36-024863) 412610.65N/0742257.27W (18.70)					566 TREE (36-024805) 412607.98N/0742301.43W (18.62)			
567 TREE (36-024808) 412606.30N/0742259.13W (17.32)					557 TREE (36-024806) 412604.77N/0742301.64W (14.41)			
551 TREE (36-024914) 412603.91N/0742303.07W (12.42)					570 TREE (36-024841) 412606.00N/0742254.84W (12.18)			
569 TREE (36-024842) 412606.91N/0742254.10W (8.47)					554 TREE (36-024807) 412605.78N/0742300.51W (7.78)			
558 TREE (36-024811) 412605.37N/0742257.19W (5.72)					558 TREE (36-024809) 412607.13N/0742258.26W (5.46)			
549 TREE (36-024924) 412604.20N/0742259.57W (3.05)					570 TREE (36-024844) 412608.31N/0742251.67W (2.72)			
535 TREE (36-024936) 412602.48N/0742304.72W (1.66)					532 TREE (36-024872) 412605.54N/0742307.58W (0.20)			

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - REMOTE ALTIMETER IN USE.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
OBSTACLE #1 IS LOCATED WITHIN DTA AREA FOR HELON TRANSITION.

FPT HAS BEEN NOTIFIED OF 20:1 PENETRATIONS.

TREE HEIGHT 100' PER FPT.

VGSI DATA: 4.00/35.5.

PDF EDIT: CHANGED KMGJ ASOS SERVICE-A FROM NO TO YES.

PDF EDIT: CHANGED INTERMEDIATE STEPDOWN OBSTACLE 7. AAO VERTICAL TOLERANCE FROM 125 TO 98 DUE TO 4E ACCURACY CODE.

PDF EDIT: DELETED NEW CIRCLING CRITERIA DUE TO CAT A APPROACH ONLY.

FLIGHT INSPECTION RESULTS DO NOT WARRANT A VDA.

COMPUTED PROCEDURE VDA/TCH: 3.00/36, REMOVED PER FLIGHT INSPECTION.
SEE ATTACHED AIRSPACE LETTER.
ORDER 8260.3, VOLUME 1, 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	3.16
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	242.89
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	569
DISTANCE FROM	THLD	TO 1500FT POINT	4.85
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.13
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	242.89
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	569

THRESHOLD
COORDINATES
(IF STR-IN)412601.22N/0742313.21W

ARP COORDINATES412554.88N/0742329.62W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP RUNWAY 26 DISTANCE 0.23 NM

FAF
COORDINATES412813.97N/0741728.97W

FIX NAME
COORDINATES

REMARKS



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
RANDALL	K06N	RNAV (GPS) RWY 26	1B	MIDDLETOWN	NY	523	RNAV

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
LONNIE EVERHART (DAVID ZAHN)	AJV-5400	05/08/2018	AERONAUTICAL INFORMATION SPECIALIST

