

**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.

AIRPORT ID HWV	PROCEDURE NAME RNAV (GPS)-A	ORIGINAL/AMENDMENT ORIG-B	CITY SHIRLEY	STATE NY		
AIRPORT ELEVATION 81	TDZE	SUPERSEDED RNAV (GPS)-A	ORIGINAL/AMENDMENT ORIG-A	DATED 08/10/2023	MAG VAR 14W	EPOCH YEAR 2000
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE ROUTINE	CANCEL/SUSPEND		

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>
BDR VOR/DME		OCTAV		TF	FB	1.00	132.03	15.09	2000
HTO VORTAC		FRANQ		TF	FB	1.00	265.98	12.73	2000
FRANQ	IAF	ARDIS		TF	FB	1.00	329.18	8.00	2000
OCTAV	IAF	ARDIS		TF	FB	1.00	149.02	8.00	2000
ARDIS	IF	WEENG		TF	FB	1.00	239.10	5.13	1700
WEENG	FAF	KOYEN	MAP	TF	FO	0.30	239.05	4.37	
KOYEN	MAP	481 MSL		CA			239.05		
481 MSL		PIRCE		DF	FO	1.00			2000

MISSED APPROACH

MAP:
KOYEN

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 DIRECT PIRCE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. PROFILE STARTS AT ARDIS					
3. FAC: 239.05	FAF: WEENG		DIST FAF TO MAP: 4.37	DIST FAF TO THLD:	
4. MIN ALT: ARDIS 2000, WEENG 1700					
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:	20:1:	TCH:		
8. MSA FROM: KOYEN 1900					

QUALITY
34
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 6, 15, 33 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: CIRCLING RWY 6, 15, 33 NA AT NIGHT.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ISP ALTIMETER SETTING AND INCREASE ALL MDAS 40 FEET.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON BDR VOR/DME AIRWAY RADIALS 054 CW 213.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON HTO VORTAC AIRWAY RADIALS 236 CW 285.

ADDITIONAL FLIGHT DATA:

WEENG TO RWY 24: 3.04/45

HOLD SW, RT, 058.89 INBOUND.
CHART FAS OBST: 213 TREE 405041N/0724937W.
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

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
CIRCLING	560	1	479	560	1	479		NA			NA				

CHANGES - REASONS

1. TERMINAL ROUTES FRANQ AND OCTAV TO ARDIS REMOVED NOPT FROM FIX TYPE - NOT REQUIRED SINCE THERE IS NO PROCEDURE TURN.
2. LINE 7: REMOVED "34:1 IS NOT CLEAR" - 8260.19J 8-6-7.G.
3. CHANGED CHART NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LONG ISLAND MACARTHUR ALTIMETER SETTING AND INCREASE ALL MDAS 40 FEET" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ISP ALTIMETER SETTING AND INCREASE ALL MDAS 40 FEET" - 8260.19J 8-6-10.F.
4. CHANGED CHART NOTE FROM "RWY 15 AND 33 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" TO "RWY 6, 15, 33 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" - 20:1 PENETRATIONS; 8260.19J 8-6-12.K.2; CLEARS T-NOTAM 3/2602.
5. CHANGED CHART NOTE FROM "CIRCLING RWY 15, 33 NA AT NIGHT" TO "CIRCLING RWY 6, 15, 33 NA AT NIGHT" - UNLIT 20:1 PENETRATION ON THE VOR RWY 6 STRAIGHT IN APPROACH; 8260.19J 8-6-12.O; 8260.3E 3-3-2.C(4)(B)2; CLEARS T-NOTAM 3/2602.
6. CHANGED CHART PLANVIEW NOTE FROM "PROCEDURE NA FOR ARRIVALS ON BDR VOR/DME AIRWAY RADIALS 054 CW 212" TO "PROCEDURE NA FOR ARRIVALS ON BDR VOR/DME AIRWAY RADIALS 054 CW 213" - PER CURRENT CHART.



COORDINATED WITH:

A4A

ALPA

X

AOPA

X

APA

HAI

NBAA

X

OTHER:

NYC APP CON, ISP FSS, HWV APT MGR

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

OFFICE

DATE

Digitally signed by

DAVID DANNER

Oct 30, 2024

DEVELOPED BY

TIMOTHY JOHNSON

Digitally signed by

Timothy Johnson

Aug 07, 2024

OFFICE

AJV-A421

DATE

07/19/2024

APPROVED BY

DAVID DANNER

Digitally signed by

DAVID DANNER

Oct 30, 2024

OFFICE

AJV-A421

DATE

12/26/2024

TITLE

MANAGER

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

<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>
HWV	RNAV (GPS)-A	ORIG-B	SHIRLEY	NY	81	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM BDR VOR/DME **TO** OCTAV

RNP 1.00 DISTANCE 15.09 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>
SHIP	410509.63N/0735227.52W	250	50	20	2C	1000				AT750	2000
TERRAIN	410919.81N/0730701.66W	66 (100)								AS1500	1600

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FEEDER

FROM HTO VORTAC **TO** FRANQ

RNP 1.00 DISTANCE 12.73 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>
AAO	405512.00N/0722330.00W	430	50	20	2C	1000				AT570	2000
TERRAIN	405512.00N/0722330.00W	230 (200)								AS1500	1700

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

QUALITY
34
CHECKED

INITIAL

FROM

FRANQ

TO

ARDIS

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	8.00										
<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>
AAO	405245.00N/0724327.00W	473	100	125	3E	1000				AT527	2000
TERRAIN	405245.00N/0724327.00W	273 (300)								AS1500	1800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

OCTAV

TO

ARDIS

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	8.00										
<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>
AAO	405824.00N/0724212.00W	424	100	125	3E	1000				AT576	2000
TERRAIN	405824.00N/0724212.00W	224 (200)								AS1500	1700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE

FROM

ARDIS

TO

WEENG

RNP

1.00

DISTANCE

5.13

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	405245.00N/0725245.00W	473	100	60	3E	500				AC60 AT667	1700
TERRAIN	405245.00N/0724327.00W	273 (300)								AS1000	1300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

WEENG

TO

KOYEN

RNP

0.30

DISTANCE

4.37

PAT

MAP

KOYEN

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE	405041.34N/0724936.64W	213	50	20	2C	250					480

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSSED APPROACH: LNAV

FROM

KOYEN

TO

PIRCE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30-1.00											380
<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				
AAO	404830.00N/0725636.00W	309	100	20	3C	1000					1400
TERRAIN	404830.00N/0725636.00W	109 (100)								AS1500	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☐ CAT C

☐ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TOWER (36-000242)	404755.24N/0725238.75W	1.30	479	248	20	3	1A	300			560
CATEGORY B											
TOWER (36-000242)	404755.24N/0725238.75W	1.81	479	248	20	3	1A	300			560

CIRCLING REMARKS:

MSA

CENTER

KOYEN

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (36-001229)	405118.39N/0724610.32W	087	04.0	824	500	50	5D	1000			1900

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

100' VEGETATION USED.

TAA NOT DEVELOPED PER ATC.

CATS C/D MINIMUMS NOT DEVELOPED PER AIRPORT MANAGER/NY DOT DUE TO RWY LENGTH AND CONDITION.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

NEW YORK APP CON, ISP FSS

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS	HWV	24	HWV	0	Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS	ISP	YES	ISP	10.72	Y	40

WX REMARKS:

RASS PRESSURE PATTERNS SAME
KHWV 81.2, KISP 98.6
RA = 27.25.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>	
RW15 - REIL (PCL), MIRL (PCL), PAPI-2L (PCL)	BSC-F		
RW24 - MIRL (PCL), REIL (PCL)	BSC-F		
RW33 - MIRL (PCL), REIL (PCL), PAPI-2L (PCL)	BSC-G		
RW06 - MALSR (PCL), MIRL (PCL), VASI-4L	PIR-F		

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RWY 15
20:1	
129 TREE (36-024375) 404931.48N/0725228.99W (0.15)	
FINAL TYPE	CIRCLING RWY 33
20:1	



<u>AIRPORT ID</u> HWV	<u>PROCEDURE NAME</u> RNAV (GPS)-A	<u>AMDT NO.</u> ORIG-B	<u>CITY</u> SHIRLEY	<u>STATE</u> NY	<u>AIRPORT ELEVATION</u> 81	<u>FACILITY</u> RNAV
124 TREE (36-155870) 404839.05N/0725129.75W (5.6)			118 TREE (36-157018) 404839.99N/0725130.51W (5.03)			
FINAL TYPE	CIRCLING RWY 6					
20:1						
140 TREE (36-159174) 404902.6800N/0725230.1000W (5.35)						
<u>PENETRATIONS REMARKS:</u>						

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

<u>PENETRATIONS REMARKS:</u>

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
VDP NOT ESTABLISED - OBSTACLES PENETRATE 20:1 SURFACE.
20:1 PENETRATION FOUND IN THE VOR RWY 6 OFFSET VISUAL AREA DRIVES NA CIRCLING AT NIGHT IAW 8260.3 3-3-4.C(4)(B)2.
ORDER 8260.3, 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	MAP	TO 1000FT POINT	2.37
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	225.05
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	100
DISTANCE FROM	MAP	TO 1500FT POINT	8.50
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	225.05
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	300

THRESHOLD COORDINATES (IF STR-IN)	404947.12N/0725143.86W
ARP COORDINATES	404919.04N/0725200.87W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 33 DISTANCE 0.54 NM
FAF COORDINATES	405313.87N/0724711.33W
FIX NAME COORDINATES	

REMARKS
NO ADDITIONAL AIRSPACE REQUIRED.



<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>
HWV	RNAV (GPS)-A	ORIG-B	SHIRLEY	NY	81	RNAV
PART E: PREPARED BY						
<u>NAME</u>			<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>	
TIMOTHY JOHNSON			AJV-A421	07/19/2024	AERONAUTICAL INFORMATION SPECIALIST	

