

**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> KCDW	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 22	<u>ORIGINAL/AMENDMENT</u> 2C	<u>CITY</u> CALDWELL	<u>STATE</u> NJ		
<u>AIRPORT ELEVATION</u> 172	<u>TDZE</u> 172	<u>SUPERSEDED</u> RNAV (GPS) RWY 22	<u>ORIGINAL/AMENDMENT</u> 2B	<u>DATED</u> 09/10/2020	<u>MAG VAR</u> 13W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

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>
ZEZEE	IAF	WELDD		TF	FB	1.00	119.01	4.11	3000
WELDD	IAF	APART		TF	FB	1.00	119.07	4.11	3000
APART	IAF	DOWDY		TF	FB	1.00	155.59	5.89	2400
DOWDY	IF	FAAIR		TF	FB	1.00	222.69	3.92	2000
FAAIR	FAF	KOLLI/2.40 NM TO RW22		TF	FB	0.30	222.66	2.98	
KOLLI/2.40 NM TO RW22		RW22	MAP	TF	FO	0.30	222.66	2.40	
RW22	MAP	459 MSL		CA			222.66		
459 MSL		YOVUN		DF	FO	1.00			2000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW22

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 DIRECT YOVUN AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
31
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT DOWDY

3. FAC: 222.66

FAF: FAAIR

DIST FAF TO MAP: 5.38

DIST FAF TO THLD: 5.38

4. MIN ALT: DOWDY 2400, FAAIR 2000, KOLLI/2.40 NM TO RW22 1000

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

287 HAT: 0.69

GS ANT:

6. MIN GP INCPT: 2000

GP ALT AT PFAF : FAAIR 2000

OM:

MM:

IM:

7. GP ANGLE: 3.10

34:1: IS NOT CLEAR

20:1: IS NOT CLEAR

TCH: 58.0

8. MSA FROM: RW22 2900

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 22 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSi AND DESCENT ANGLES NOT COINCIDENT (VGSi ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: CIRCLING RWY 10, 28 NA AT NIGHT.
CHART NOTE: CIRCLING NA E OF RWY 04-22.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
HOLD SW, RT, 042.53 INBOUND.
CHART FAS OBST: 412 TREE (34-050665) 405213N/0741613W.
WAAS CHANNEL # 58022
REFERENCE PATH ID: W22A
LTP HAE: 20 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT B 900-2, CAT C 1000-2 3/4, 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
LPV DA	459	1	287	459	1	287	459	1	287		NA				
LNAV/VNAV DA	610	1 3/8	438	610	1 3/8	438	610	1 3/8	438		NA				
LNAV MDA	680	1	508	680	1	508	680	1 3/8	508		NA				
CIRCLING	960	1	788	1040	2	868	1100	2 3/4	928		NA				

QUALITY
16
CHECKED

CHANGES - REASONS

1. EQUIPMENT REQUIREMENTS NOTES: CHANGED FROM RNP APCH TO RNP APCH - GPS - IAW 8260.19I, 8-6-8.
2. NOTES: DELETED BACKUP ALTIMETER SETTING AND BARO-VNAV NA WHEN USING NEWARK ALTIMETER SETTING NOTES -ADDED TO 8260-9 AS CONTINGENCY NOTE IAW 8260.19I. 8-6-9. F. (3).
- 3.PROFILE LINE 4 AND NOTES: REMOVED *LNAV ONLY - IAW 8260.19I, 8-6-7.
4. NOTES: CHANGED FROM "CIRCLING RWY 4, 10, 28 NA AT NIGHT" TO "CIRCLING RWY 10, 28 NA AT NIGHT" - 20:1 OBST ARE LIGHTED.
5. CRC REMAINDER CHANGED FROM CD438FBF TO FACBB155 - LTP/FTP LATITUDE/LONGITUDE CHANGED FROM 405241.8840N/0741642.4060W TO 405241.8820N/0741642.4080W.

4/12/23 THIS IS AN UPDATED COPY OF THE PROCEDURE DEVELOPED ON 4/25/22

1. ADDED CHART NOTE: CIRCLING NA E OF RWY 04-22.

COORDINATED WITH:

AAA ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAZ** ☐ **NBAA** ☒ **OTHER:** NYC APP CON, CDW ATCT, AMGR

FLIGHT CHECKED BY

BOB S PRESSLER

OFFICE

FPO

DATE

04/11/2023

DEVELOPED BY

APRIL SARMENTO

Digitally signed by

APRIL T SARMENTO

Nov 07, 2022

Digitally signed by

CASIMIR L TABAKA

Nov 18, 2022

OFFICE

AJV-A432

DATE

04/25/2022

APPROVED BY

CASIMIR TABAKA

Digitally signed by

CASIMIR L TABAKA

Nov 18, 2022

OFFICE

AJV-A431

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCDW
RUNWAY	RW22
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W22A
LTP/FTP LATITUDE	405241.8820N
LTP/FTP LONGITUDE	0741642.4080W
LTP/FTP ELLIPSOIDAL HEIGHT	+00200
FPAP LATITUDE	405124.3680N
FPAP LONGITUDE	0741740.4240W
THRESHOLD CROSSING HEIGHT (TCH)	00058.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.10
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1400
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER	FACBB155
---------------	----------

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00525
FPAP ORTHOMETRIC HEIGHT	+00525



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

<u>AIRPORT ID</u> KCDW	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 22	<u>AMDT NO.</u> 2C	<u>CITY</u> CALDWELL	<u>STATE</u> NJ	<u>AIRPORT ELEVATION</u> 172	<u>FACILITY</u> RNAV
---------------------------	--	-----------------------	-------------------------	--------------------	---------------------------------	-------------------------

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM
ZEZEE

TO
WELDD

<u>RNP</u>	<u>DISTANCE</u> 4.11	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<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	410754.00N/0742703.00W		1615				1000					2700
2.TERRAIN	410836.00N/0742342.00W		1486 (1500)								AS1500	3000

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM
WELDD

TO
APART

<u>RNP</u>	<u>DISTANCE</u> 4.11	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<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	410551.00N/0741339.00W		1326				1000				AT674	3000
4.TERRAIN	410700.00N/0742030.00W		1149 (1100)								AS1500	2600

COMPUTATIONS

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

SEGMENT REMARKS:



INITIAL

FROM
APART

TO
DOWDY

RNP	DISTANCE 5.89	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
3.AAO	410551.00N/0741339.00W		1326				1000					2400
5.TERRAIN	410551.00N/0741339.00W		1126 (1100)								AS1000	2100

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

SEGMENT REMARKS:

INTERMEDIATE

FROM
DOWDY

TO
FAAIR

RNP	DISTANCE 3.92	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
6.AAO	405824.00N/0741203.00W		1175				500				AT249 AC76	2000
7.TERRAIN	405824.00N/0741203.00W		899 (900)								AS1000	1900

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

SEGMENT REMARKS:



FINAL: LPV

FROM
FAAIR

TO
RW22

<u>RNP</u>	<u>DISTANCE</u> 5.38	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 287			<u>HMAS</u>					
<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>
8.TREE (34-056893)	405248.22N/0741643.40W		277	20	3	1A					XP10	459

COMPUTATIONS

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

SEGMENT REMARKS:
XP: MATCHING PREVIOUSLY PUBLISHED MINS
FINAL: LNAV/VNAV

FROM
FAAIR

TO
RW22

<u>RNP</u>	<u>DISTANCE</u> 5.38	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 438			<u>HMAS</u>					
<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>
9.POLE (34-024442)	405346.93N/0741627.32W		315	20	10	1B		24.35:1			AC10	610

COMPUTATIONS

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

SEGMENT REMARKS:



FINAL: LNAV

FROM

FAAIR

TO

KOLLI/2.40 NM TO RW22

<u>RNP</u>	<u>DISTANCE</u> 2.98	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<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>
10.AAO	405549.23N/0741432.58W		687	50	20	2C	250				RA50	1000

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM

KOLLI/2.40 NM TO RW22

TO

RW22

<u>RNP</u>	<u>DISTANCE</u> 2.40	<u>PAT</u>	<u>MAP</u> RW22	<u>HAT</u> 508			<u>HMAS</u>					
<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>
11.TREE (34-050665)	405212.70N/0741612.65W		412	20	3	1A	250					680

COMPUTATIONS

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

SEGMENT REMARKS:



MISSED APPROACH : LPV

FROM
DA

TO
YOVUN

RNP	DISTANCE	PAT	MAP	HAT			HMAS 250					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2000
12.TOWER (34-000026)	404751.00N/0742136.00W		683	50	3	2A	1000					1700
13.TERRAIN	404124.00N/0742124.00W		598 (600)								AS1000	1600

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

SEGMENT REMARKS:

MISSED APPROACH : LNAV/VNAV

FROM
DA

TO
YOVUN

RNP	DISTANCE	PAT	MAP	HAT			HMAS 479					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2000
12.TOWER (34-000026)	404751.00N/0742136.00W		683	50	3	2A	1000					1700
13.TERRAIN	404124.00N/0742124.00W		598 (600)								AS1000	1600

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

SEGMENT REMARKS:



MISSED APPROACH : LNAV

FROM

RW22

TO

YOVUN

RNP	DISTANCE	PAT	MAP	HAT			HMAS 580				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2000
12.TOWER (34-000026)	404751.00N/0742136.00W	683	50	3	2A	1000					1700
13.TERRAIN	404124.00N/0742124.00W	598 (600)								AS1000	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											
14.TREE	405204.16N/0741512.38W	1.30	788	660	50	20	2C	300			960
CATEGORY B											
15.TRANSMISSION_LINE (34-058048)	405147.90N/0741442.19W	1.81	868	732	20	10	1B	300			1040
CATEGORY C											
16.TREE (34-049573)	405023.37N/0741522.12W	2.84	928	790	20	10	1B	300			1100

CIRCLING REMARKS:



MSA

CENTER

RW22

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	411322.40N/0744308.70W	329	28.8	1853	1000	3	6A	1000			2900

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

FPT NOTIFIED OF 20:1 AND 34:1 PENETRATIONS.

GS 3.10/ TCH 58.0 TO MITIGATE GQS PENETRATIONS - TREE KCDWT0041 (4.09); TREE KCDWT0040 (4.02). REMOVED CAT D MINIMA DUE TO RESULTING GPI 1070 FEET FROM THRESHOLD.

IN 20:1 TRACKER, 177 FENCE (34-024299) IS LIT, 179 FENCE (34-026827) IS WITHIN 30FT. PER FPT, (KEVIN THOMPSON), PROCEED AS IF BOTH OBSTRUCTIONS WERE LIT. AIRNAV AND TARGETS OBSTRUCTION DATA NOT CURRENT.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
CDW TOWER, NYC APP CON

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KCDW	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KCDW	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KEWR	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KEWR	<u>DISTANCE</u> 12.11	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 50

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KCDW 172.3, KEWR 17.6
RA = 49.5.

<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>
RW10 - MIRL		BSC-G	
RW28 - MIRL		BSC-G	
RW04 - HIRL (PCL)		NPI-G	
RW22 - HIRL (PCL), REIL (PCL), PAPI-4R		NPI-G	

<u>GLIDESLOPE ANGLE</u> 3.10	<u>ELEV RWY THRESHOLD</u> 172.2	<u>TCH</u> 58.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 42.1
---------------------------------	------------------------------------	--------------------	------------------------	--------------------------	---------------------------	--------------------

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☒	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	135
ON CENTERLINE	☒	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u> -15C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -15C	<u>APT ISA</u> +14.66C
-----------------------------	------------------------------	--------------------	---------------------------

CRITICAL TEMPERATURE REMARKS:
AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 847 HIGH TEMP 1110.

"VISUAL PORTION OF FINAL" PENETRATIONS



AIRPORT ID KCDW		PROCEDURE NAME RNAV (GPS) RWY 22	AMDT NO. 2C	CITY CALDWELL	STATE NJ	AIRPORT ELEVATION 172	FACILITY RNAV
Final Type	CIRCLING RWY 10						
20:1							
237 TREE (34-020498) 405235.28N/0741714.00W (55.04)				228 TREE (34-027858) 405239.13N/0741719.08W (28.99)			
196 TREE (34-026979) 405235.73N/0741713.82W (14.99)				200 TREE (34-026564) 405236.11N/0741715.21W (13.92)			
199 BUILDING (34-026739) 405235.31N/0741715.95W (9.62)				195 BUILDING (34-026560) 405235.11N/0741715.43W (7.48)			
199 POLE (34-026699) 405234.81N/0741716.88W (5.77)				220 TREE (34-029398) 405237.07N/0741723.25W (3.84)			
195 TREE (34-026798) 405237.07N/0741716.73W (3.7)				215 TREE (34-029255) 405239.64N/0741723.10W (0.96)			
236 TREE (34-029225) 405234.87N/0741727.88W (0.86)							
Final Type	CIRCLING RWY 22						
20:1							
179 FENCE (34-026827) 405244.31N/0741642.13W (5.59)				177 FENCE (34-024299) 405244.33N/0741642.40W (4.02)			
Final Type	CIRCLING RWY 28						
20:1							
509 TREE (34-049863) 405238.42N/0741524.43W (91.64)				514 TREE (34-048545) 405238.06N/0741520.03W (80.07)			
517 TREE (34-049200) 405238.27N/0741516.73W (70.36)				352 TREE (34-049659) 405239.65N/0741559.30W (66.88)			
339 TREE (34-050801) 405239.50N/0741601.26W (61.44)				349 TREE (34-049712) 405239.55N/0741557.23W (56.04)			
436 TREE (34-049799) 405241.10N/0741534.39W (55.01)				352 TREE (34-049073) 405239.79N/0741555.72W (53.14)			
485 TREE (34-048542) 405239.77N/0741520.46W (51.68)				472 TREE (34-058054) 405240.37N/0741523.71W (50.72)			
340 TREE (34-050829) 405240.38N/0741558.24W (50.39)				347 TREE (34-050167) 405240.66N/0741556.44W (50.36)			
384 TREE (34-048766) 405239.11N/0741546.44W (50.16)				476 TREE (34-049218) 405240.21N/0741522.29W (49.4)			
329 TREE (34-048801) 405240.53N/0741600.76W (48.91)				410 TREE (34-048856) 405239.88N/0741539.14W (47.86)			
350 TREE (34-050313) 405241.05N/0741554.96W (47.48)				489 TREE (34-050625) 405238.63N/0741518.11W (47.41)			
420 TREE (34-050762) 405239.59N/0741536.25W (47.01)				357 TREE (34-048573) 405241.19N/0741552.95W (46.73)			
363 TREE (34-049133) 405241.00N/0741551.15W (45.98)				349 TREE (34-048556) 405238.82N/0741554.45W (45.88)			
351 TREE (34-049807) 405240.00N/0741554.05W (45.64)				440 TREE (34-049829) 405238.97N/0741530.45W (45.26)			
429 TREE (34-049085) 405239.04N/0741533.31W (45.13)				414 TREE (34-049190) 405240.39N/0741537.36W (44.76)			
437 TREE (34-049637) 405241.37N/0741531.28W (43.98)				403 TREE (34-049491) 405240.66N/0741540.01W (43.7)			
413 TREE (34-049063) 405241.94N/0741537.11W (41.87)				365 TREE (34-049150) 405239.76N/0741549.34W (41.83)			
448 TREE (34-048610) 405239.52N/0741527.48W (41.61)				453 TREE (34-049475) 405239.56N/0741525.99W (40.9)			

QUALITY

31

CHECKED



AIRPORT ID KCDW	PROCEDURE NAME RNAV (GPS) RWY 22	AMDT NO. 2C	CITY CALDWELL	STATE NJ	AIRPORT ELEVATION 172	FACILITY RNAV
363 TREE (34-049007) 405240.94N/0741549.79W (40.83)			404 TREE (34-048690) 405241.31N/0741538.77W (39.58)			QUALITY 31 CHECKED
426 TREE (34-050953) 405240.47N/0741532.62W (38.64)			439 TREE (34-050985) 405240.80N/0741529.00W (37.63)			
446 TREE (34-048622) 405238.49N/0741526.76W (37.48)			464 TREE (34-057859) 405241.24N/0741522.21W (36.47)			
412 TREE (34-050922) 405241.18N/0741535.75W (36.15)			365 TREE (34-048681) 405239.53N/0741547.78W (36.02)			
464 TREE (34-049391) 405238.15N/0741521.49W (35.59)			320 TREE (34-057703) 405240.91N/0741559.42W (34.58)			
401 TREE (34-049037) 405238.60N/0741537.77W (34.4)			421 TREE (34-050952) 405242.19N/0741533.04W (34.2)			
481 TREE (34-057255) 405239.32N/0741516.83W (34.11)			373 TREE (34-050055) 405239.12N/0741544.85W (33.09)			
458 TREE (34-049220) 405239.23N/0741522.09W (31.22)			421 TREE (34-050330) 405239.70N/0741531.65W (30.4)			
346 TREE (34-049263) 405242.16N/0741551.28W (28.78)			302 TREE (34-048797) 405240.05N/0741602.44W (28.61)			
521 TREE (34-055051) 405238.01N/0741504.22W (26.81)			425 TREE (34-049120) 405239.89N/0741529.53W (26.2)			
233 TREE (34-029222) 405239.41N/0741619.48W (24.98)			249 TREE (34-028526) 405240.39N/0741615.22W (24.14)			
352 TREE (34-048680) 405240.60N/0741548.11W (23.63)			364 TREE (34-049233) 405240.42N/0741544.72W (22.81)			
385 TREE (34-048861) 405242.16N/0741539.48W (22.78)			432 TREE (34-048637) 405241.56N/0741527.04W (22.7)			
329 TREE (34-049099) 405242.37N/0741554.12W (22.48)			503 TREE (34-050104) 405239.47N/0741507.80W (21.58)			
428 TREE (34-048618) 405243.73N/0741528.02W (21.13)			389 TREE (34-048939) 405243.52N/0741538.12W (20.77)			
401 TREE (34-049797) 405241.99N/0741534.65W (20.46)			517 TREE (34-050544) 405239.66N/0741503.84W (20.37)			
321 TREE (34-048550) 405242.77N/0741555.71W (20.31)			521 TREE (34-050279) 405238.75N/0741502.50W (19.8)			
381 TREE (34-048859) 405243.12N/0741539.87W (19.69)			369 TREE (34-049642) 405239.73N/0741542.25W (18.81)			
296 TREE (34-050089) 405241.43N/0741601.55W (18.38)			374 TREE (34-049299) 405241.39N/0741540.94W (17.81)			
363 TREE (34-050809) 405239.21N/0741543.46W (17.73)			236 TREE (34-028359) 405245.42N/0741617.72W (17.65)			
391 TREE (34-056630) 405243.90N/0741536.83W (17.63)			352 TREE (34-050462) 405240.92N/0741546.46W (17.15)			
424 TREE (34-048616) 405240.58N/0741527.42W (16.74)			408 TREE (34-050338) 405242.87N/0741531.89W (16.41)			
300 TREE (34-049658) 405241.91N/0741600.04W (16.34)			390 TREE (34-056628) 405242.82N/0741536.39W (15.6)			
310 TREE (34-051104) 405241.77N/0741557.14W (15.36)			283 TREE (34-050070) 405239.94N/0741603.83W (14.98)			
244 TREE (34-028991) 405241.72N/0741614.09W (14.03)			340 TREE (34-048672) 405241.56N/0741548.71W (13.34)			
252 TREE (34-020476) 405243.87N/0741612.05W (12.96)			475 TREE (34-051031) 405238.50N/0741512.72W (12.93)			
455 BUILDING (34-048722) 405239.78N/0741518.16W (12.91)			423 TREE (34-048827) 405244.95N/0741527.36W (12.88)			
335 TREE (34-049171) 405242.34N/0741549.71W (11.68)			520 TREE (34-048477) 405238.80N/0741500.63W (11.64)			
231 TREE (34-028933) 405240.53N/0741616.65W (11.51)			350 TREE (34-050050) 405241.79N/0741545.60W (11.34)			

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
KCDW	RNAV (GPS) RWY 22	2C	CALDWELL	NJ	172	RNAV
498 TREE (34-049907) 405239.04N/0741506.34W (11.27)			439 TREE (34-049396) 405242.26N/0741522.07W (10.33)			
290 TREE (34-048984) 405242.53N/0741601.08W (9.93)			450 TREE (34-050620) 405243.48N/0741519.27W (9.91)			
412 TREE (34-048587) 405242.78N/0741529.11W (9.86)			253 TREE (34-058244) 405243.37N/0741610.84W (9.64)			
297 TREE (34-050830) 405242.81N/0741559.05W (9.02)			405 TREE (34-049109) 405243.68N/0741530.86W (8.99)			
238 TREE (34-028628) 405241.89N/0741614.34W (8.88)			428 TREE (34-048881) 405241.58N/0741524.31W (8.28)			
255 TREE (34-048660) 405244.48N/0741610.05W (7.96)			235 TREE (34-028629) 405243.22N/0741615.03W (7.71)			
233 TREE (34-055063) 405243.27N/0741615.38W (7.02)			319 TREE (34-050519) 405242.69N/0741552.59W (6.46)			
389 TREE (34-056112) 405243.28N/0741534.26W (6.2)			397 TREE (34-050498) 405244.66N/0741532.38W (6.2)			
441 TREE (34-048773) 405242.84N/0741520.54W (6.14)			394 TREE (34-050203) 405243.61N/0741532.96W (6.04)			
376 TREE (34-049067) 405244.64N/0741537.79W (5.84)			526 TREE (34-048524) 405238.26N/0741457.45W (5.84)			
277 TREE (34-049630) 405241.08N/0741603.14W (5.66)			295 TREE (34-050993) 405241.82N/0741558.53W (5.63)			
221 TREE (34-028609) 405241.13N/0741617.82W (5.61)			513 TREE (34-020453) 405238.42N/0741500.77W (5.4)			
497 TREE (34-050022) 405240.07N/0741505.09W (4.89)			519 TREE (34-048421) 405238.34N/0741458.98W (4.63)			
360 TREE (34-049297) 405242.97N/0741541.38W (4.54)			480 TREE (34-050889) 405239.88N/0741509.40W (4.44)			
406 TREE (34-050986) 405238.53N/0741528.57W (4.36)			369 TREE (34-049036) 405244.16N/0741539.15W (4.32)			
311 TREE (34-049248) 405243.41N/0741554.14W (3.93)			408 TREE (34-049647) 405241.78N/0741528.44W (3.91)			
383 TREE (34-049794) 405244.28N/0741535.39W (3.91)			271 TREE (34-057867) 405242.06N/0741604.39W (3.84)			
426 TREE (34-049518) 405245.18N/0741523.80W (2.17)			403 TREE (34-050989) 405243.76N/0741529.55W (1.95)			
272 TREE (34-020478) 405243.31N/0741603.76W (1.68)			488 TREE (34-051094) 405240.51N/0741506.61W (1.42)			
416 TREE (34-049855) 405244.20N/0741526.00W (1.15)			279 TREE (34-048807) 405243.71N/0741601.81W (1)			
274 TREE (34-048973) 405242.28N/0741602.87W (0.91)			339 TREE (34-050051) 405242.92N/0741545.91W (0.84)			
467 TREE (34-050719) 405240.83N/0741511.96W (0.63)			313 TREE (34-050526) 405243.79N/0741552.69W (0.18)			
Final Type	CIRCLING RWY 4					
20:1						
212 POLE (34-050669) 405158.14N/0741711.44W (4.78) LIT			199 BUILDING (34-049958) 405202.34N/0741715.11W (3.3) LIT			
217 BUILDING (34-050045) 405157.36N/0741713.28W (2.86) LIT			193 POLE (34-048788) 405202.70N/0741714.22W (0.57) LIT			
Final Type	LPV, LNAV/VNAV, AND LNAV					
20:1						
179 FENCE (34-026827) 405244.31N/0741642.13W (5.59) LIT			177 FENCE (34-024299) 405244.33N/0741642.40W (4.02) LIT			

QUALITY
31
CHECKED



Final Type	LPV, LNAV/VNAV, AND LNAV	
34:1		
244 TREE (34-055873) 405255.02N/0741626.83W (26.29)	232 TREE (34-056635) 405256.33N/0741636.23W (21.4)	
241 TREE (34-048566) 405256.23N/0741627.08W (20.44)	255 TREE (34-049409) 405304.79N/0741632.95W (18.84)	
229 TREE (34-028341) 405257.10N/0741635.33W (15.4)	234 TREE (34-028993) 405256.34N/0741628.60W (14.85)	
236 TREE (34-048570) 405257.13N/0741628.24W (14.41)	231 TREE (34-056117) 405255.35N/0741627.99W (13.73)	
226 TREE (34-029233) 405256.56N/0741634.55W (12.93)	207 BUILDING (34-058514) 405250.43N/0741636.93W (12.45)	
199 TREE (34-028070) 405248.85N/0741638.74W (10.56)	228 TREE (34-029432) 405257.38N/0741632.44W (10.45)	
223 TREE (34-028343) 405255.97N/0741632.61W (9.29)	218 TREE (34-028796) 405255.65N/0741635.95W (8.84)	
200 BUILDING (34-020460) 405250.27N/0741639.03W (8.21)	196 TREE (34-028074) 405247.93N/0741636.79W (7.76)	
199 BUILDING (34-027996) 405249.24N/0741637.12W (7.74)	199 BUILDING (34-028023) 405249.75N/0741638.00W (7.4)	
213 TREE (34-029221) 405253.95N/0741635.16W (7.36)	250 TREE (34-048795) 405304.04N/0741625.21W (7.14)	
229 TREE (34-048787) 405258.94N/0741631.75W (6.64)	209 TREE (34-029141) 405253.70N/0741636.70W (5.73)	
194 POLE (34-024334) 405248.05N/0741636.23W (4.82)	222 TREE (34-029320) 405256.11N/0741629.42W (4.36)	
196 BUILDING (34-029174) 405249.34N/0741636.86W (4.19)	193 TREE (34-027859) 405247.30N/0741634.60W (3.95)	
231 TREE (34-049141) 405259.19N/0741627.88W (3.67)	222 TREE (34-028670) 405255.90N/0741628.13W (3.47)	
193 TREE (34-027817) 405249.72N/0741639.77W (3.45)	280 TREE (34-048764) 405311.56N/0741612.28W (3.25)	
192 TREE (34-027832) 405247.31N/0741634.89W (3.24)	192 POLE (34-024335) 405248.04N/0741636.23W (2.85)	
206 POLE (34-024294) 405254.40N/0741638.10W (2.48)	255 TREE (34-048664) 405305.28N/0741619.16W (2.18)	
177 FENCE (34-024298) 405244.34N/0741640.20W (1.86)	245 TREE (34-048799) 405304.54N/0741626.09W (1.83)	
196 BUILDING (34-027943) 405250.93N/0741638.42W (1.82)	202 POLE (34-027801) 405250.84N/0741632.73W (1.7)	
178 FENCE (34-026481) 405244.35N/0741639.16W (1.67)	178 FENCE (34-024297) 405244.35N/0741639.03W (1.53)	
196 BUILDING (34-027780) 405248.79N/0741632.48W (0.72)	225 TREE (34-049963) 405258.16N/0741628.08W (0.56)	
247 TREE (34-050344) 405305.40N/0741624.87W (0.24)	193 POLE (34-024333) 405249.14N/0741635.43W (0.11)	

PENETRATIONS REMARKS:
RWY 22: 20:1 PENETRATIONS ARE LIGHTED
HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS



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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - OBSTACLES PENETRATE 20:1.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NEWARK ALTIMETER SETTING AND INCREASE ALL DA 50 FEET AND ALL MDA 60 FEET; INCREASE LNAV/VNAV ALL CATS AND LNAV CAT C AND CIRCLING CATS A AND C VISIBILITY 1/4 SM.

100' TREES USED.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



AIRPORT ID KCDW	PROCEDURE NAME RNAV (GPS) RWY 22	AMDT NO. 2C	CITY CALDWELL	STATE NJ	AIRPORT ELEVATION 172	FACILITY RNAV
--------------------------------	---	----------------------------	------------------------------	-------------------------	--------------------------------------	------------------------------

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	3.86
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	209.66
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	502
DISTANCE FROM	THLD	TO 1500FT POINT	5.38
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.13
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	209.66
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	899

THRESHOLD
COORDINATES
(IF STR-IN)

405241.88N/0741642.41W

ARP COORDINATES

405230.81N/0741652.86W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 4 DISTANCE 0.50 NM

FAF
COORDINATES

405722.53N/0741311.90W

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.
THLD DISPLACED 135FT, ACTUAL COORDINATES: 405243.04N/0741641.54W.

QUALITY
31
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

Page 14 of 15

PART E: PREPARED BY

<u>NAME</u> APRIL SARMENTO	<u>OFFICE</u> AJV-A432	<u>DATE</u> 04/25/2022	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
-------------------------------	---------------------------	---------------------------	---

