

**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> EWR	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 22R	<u>ORIGINAL/AMENDMENT</u> 2A	<u>CITY</u> NEWARK	<u>STATE</u> NJ
<u>AIRPORT ELEVATION</u> 18	<u>TDZE</u> 10	<u>SUPERSEDED</u> RNAV (GPS) RWY 22R	<u>ORIGINAL/AMENDMENT</u> 2	<u>DATED</u> 02/23/2023
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 13W
				<u>EPOCH YEAR</u> 1985
				<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>
PATRN	IAF	AGNSS		TF	FB	1.00	165.17	7.17	3000
AGNSS	IF	VERDE		TF	FB	1.00	218.89	1.57	2500
VERDE		TIPPS		TF	FB	1.00	218.88	1.57	2000
TIPPS		TALTE		TF	FB	1.00	218.87	1.57	1500
TALTE	FAF	RW22R	MAP	TF	FO	0.30	218.86	4.38	
RW22R	MAP	2000 MSL		CA			218.86		2000
2000 MSL		KILMA		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW22R

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 3000 DIRECT KILMA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. PROFILE STARTS AT AGNSS					
3. FAC: 218.86	FAF: TALTE		DIST FAF TO MAP: 4.38	DIST FAF TO THLD: 4.38	
4. MIN ALT: AGNSS 3000, VERDE 2500, TIPPS 2000, TALTE 1500					
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	200 HAT: 0.46	GS ANT:
6. MIN GP INCPT: 1500	GP ALT AT PFAF: TALTE 1500		OM:	MM:	IM:
7. GP ANGLE: 3.10	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 47.2		
8. MSA FROM: RW22R 2900					

QUALITY
40
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -11°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: CIRCLING NA S OF RWY 11-29.
CHART NOTE: WHEN CIRCLING TO RWY 29 AT NIGHT, OPERATIONAL VGSI REQUIRED, REMAIN ON OR ABOVE VGSI GLIDEPATH UNTIL THRESHOLD.
CHART SPEED ICON IN PLANVIEW AT AGNSS: MAX 210 KIAS.
CHART NOTE: CAUTION, DEPARTING TEB RWY 24 TRAFFIC CLIMBING TO 1500 MSL.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 072.00 INBOUND.
CHART FAS OBST: 290 STACK (34-000665) 404417N/0740736W.
CHART VDP AT 1.46 NM TO RW22R.
WAAS CHANNEL # 61244
REFERENCE PATH ID: W22B
LTP HAE: -29.3 M
CHART KTEB IN PLANVIEW

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C 900-2 3/4, CAT D 900-3

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	210	1800	200	210	1800	200	210	1800	200	210	1800	200			
LNAV/VNAV DA	468	4500	458	468	4500	458	468	4500	458	468	4500	458			
LNAV MDA	560	2400	550	560	2400	550	560	6000	550	560	6000	550			
CIRCLING	660	1	642	660	1	642	900	2 3/4	882	900	3	882			

CHANGES - REASONS

- AIRPORT: ELEVATION CHANGED FROM 17 TO 18. - NEW SURVEY.
- NOTES: ADDED CAUTION, DEPARTING TEB RWY 24 TRAFFIC CLIMBING TO 1500 MSL. - ATC REQUEST.
- NOTES: UPDATED BARO NOTE FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -12°C OR ABOVE 54°C. TO FOR UNCOMPENSATED 3. BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -11°C OR ABOVE 54°C. - NEW FIVE YEAR CLIMATE STUDY.
- ADDITIONAL FLIGHT DATA: CHANGED CHART VDP AT 1.45 NM TO RW22R.TO CHART VDP AT 1.46 NM TO RW22R. - NEW TARGETS CALCULATION.
- ADDITIONAL FLIGHT DATA: REMOVED AND UPDATED THE 7 TO 1 OBSTACLE TO THE GENERAL REMARKS SECTION. - 8260.19K COMPLIANCE.
- ADDITIONAL FLIGHT DATA: REMOVED CHART CIRCLING ICON. - NO LONGER REQUIRED PER CRITERIA.
- MINIMUMS: CIRCLING CATS A/B HAA CHANGED FROM 643 TO 642, CATS C/D CHANGED FROM 883 TO 882. - AIRPORT ELEVATION CHANGED FROM 17 TO 18.
- FAS DATA: LTP/FTP LAT/LONG CHANGED FROM 404156.4015N/0740951.9705W TO 404156.3985N/0740951.9645W. - NEW SURVEY DATA PULL.
- FAS DATA FPAP LAT/LONG CHANGED FROM 404031.3690N/0741046.0220W TO 404031.3675N/0741046.0190W. - NEW SURVEY DATA PULL.
- FAS DATA: CRC REMAINDER CHANGED FROM 0C640855 TO 8A07E40F. - LTP/FTP LAT/LONG CHANGED.

10/29/2025: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 08/12/2025.
ADDED CHART KTEB IN PLANVIEW IN ADDITIONAL FLIGHT DATA.



COORDINATED WITH:

A4A

X

ALPA

X

AOPA

X

APA

X

HAI

NBAA

X

OTHER:

EWR ATCT, NY TRACON, ZNY, AMGR.

FLIGHT CHECKED BY

OFFICE

DATE

DEVELOPED BY
JOHN KEEFER

Digitally signed by
CASIMIR L TABAKA
Sep 19, 2025

OFFICE
AJV-A4

DATE
08/12/2025

APPROVED BY
CASIMIR L. TABAKA

Digitally signed by
CASIMIR L TABAKA
Sep 19, 2025

OFFICE
AJV-A4

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD
OPERATION TYPE
SBAS SERVICE PROVIDER IDENTIFIER
AIRPORT IDENTIFIER
RUNWAY
APPROACH PERFORMANCE DESIGNATOR
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR
REFERENCE PATH IDENTIFIER (APPROACH ID)
LTP/FTP LATITUDE
LTP/FTP LONGITUDE
LTP/FTP ELLIPSOIDAL HEIGHT
FPAP LATITUDE
FPAP LONGITUDE
THRESHOLD CROSSING HEIGHT (TCH)
TCH UNITS SELECTOR (METERS OR FEET USED)
GLIDEPATH ANGLE (GPA)
COURSE WIDTH AT THRESHOLD
LENGTH OFFSET
HORIZONTAL ALERT LIMIT (HAL)
VERTICAL ALERT LIMIT (VAL)

DATA
0
0
KEWR
RW22R
0
0
W22B
404156.3985N
0740951.9645W
-00293
404031.3675N
0741046.0190W
00047.2
F
03.10
106.75
0000
40.0
35.0

CRC REMAINDER

8A07E40F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE
LTP ORTHOMETRIC HEIGHT
FPAP ORTHOMETRIC HEIGHT

K6
+00030
+00030



**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>
EWB	RNAV (GPS) RWY 22R	2A	NEWARK	NJ	18	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM **TO**
PATRN AGNSS

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
1.00 7.17

<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	405636.00N/0741133.00W	732	215	8	4B	1000				AT1268	3000
TERRAIN	405415.00N/0741027.00W	492 (500)								AS1500	2000

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM **TO**
AGNSS VERDE

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
1.00 1.57

<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>
TOWER (34-001064)	404753.26N/0740525.76W	676	20	3	1A	500				AT1324	2500
TERRAIN	404909.00N/0740639.00W	124 (100)								AS1500	1600

COMPUTATIONS

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

SEGMENT REMARKS:



INTERMEDIATE: STEPDOWN

FROM

VERDE

TO

TIPPS

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	1.57										
<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>
TOWER (34-001064)	404753.26N/0740525.76W	676	20	3	1A	500				AT824	2000
TERRAIN	404745.00N/0740739.00W	124 (100)								AS1500	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM

TIPPS

TO

TALTE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	1.57										
<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>
TOWER (34-001063)	404747.86N/0740526.10W	676	20	3	1A	500				AT324	1500
TERRAIN	404648.00N/0740830.00W	154 (200)								AS1000	1200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LPV

FROM

TALTE

TO

RW22R

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	4.38		DA				200				
<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				210

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM

TALTE

TO

RW22R

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	4.38		DA				458				
<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>
POLE (34-000617)	404245.00N/0740900.00W	130	50	3	2A		22.26:1			MA62	468

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

TALTE

TO

RW22R

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	4.38		RW22R				550				
<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>
STACK (34-000665)	404417.00N/0740736.00W	290	20	20	1C	250				MA20	560

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSSED APPROACH: LPV

FROM

DA

TO

KILMA

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u> 42				
<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				3000
STACK (36-000251)	403528.49N/0741155.21W	515	500	50	5D	1000					1600
TERRAIN	403206.00N/0741927.00W	226 (200)								AS1500	1700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSSED APPROACH: LNAV/VNAV

FROM

DA

TO

KILMA

<u>RNP</u> 0.30	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>			<u>HMAS</u> 307		
<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>
CRANE (34-020016)	404106.56N/0740925.42W	460	500	3	5A		ASC				3000
STACK (36-000251)	403528.49N/0741155.21W	515	500	50	5D	1000					1600
TERRAIN	403206.00N/0741927.00W	226 (200)								AS1500	1700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: LNAV

FROM

RW22R

TO

KILMA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30										460	
<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>
CRANE (34-020016)	404106.56N/0740925.42W	460	500	3	5A		ASC				3000
STACK (36-000251)	403528.49N/0741155.21W	515	500	50	5D	1000					1600
TERRAIN	403206.00N/0741927.00W	226 (200)								AS1500	1700

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											
ANTENNA (34-081410)	404230.94N/0741206.28W	1.30	642	360	20	3	1A	300			660
CATEGORY B											
ANTENNA (34-081410)	404230.94N/0741206.28W	1.81	642	360	20	3	1A	300			660
CATEGORY C											
BUILDING (34-000085)	404412.00N/0741015.00W	2.84	882	597	20	3	1A	300			900
CATEGORY D											
BUILDING (34-000085)	404412.00N/0741015.00W	3.70	882	597	20	3	1A	300			900

CIRCLING REMARKS:

MSA

CENTER

RW22R

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	BLDG (36-020633)	404246.75N/0740047.27W	096	7.0	1806	20	3	1A	1000			2900

MSA REMARKS:



NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

EWR TOWER, ZNY ARTCC, NEW YORK APP CON

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>
ASOS	EWR	24	EWR		Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>

WX REMARKS:

<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>	
RW29 - REIL, TDZ, HIRL, C/LINE, PAPI-4R	NPI-G		
RW04L - MALSR, HIRL, C/LINE, TDZ, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT	
RW04R - ALSF-2, TDZ, C/LINE, HIRL, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT	
RW11 - HIRL, REIL, C/LINE, TDZ, PAPI-4R	PIR-G	APPROACH, MIDPOINT, ROLL OUT	
RW22L - ALSF-2, TDZ, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT	
RW22R - MALSR, HIRL, TDZ, C/LINE, REIL, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT	

<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>
3.10	9.7	47.2			3.10	66.4

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	X	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	1441
ON CENTERLINE	X	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
-11C	+54C	-11C	+14.97C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2019-2024).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 987 HIGH TEMP 1260.

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RWY 29
20:1	
39 POLE (34-076728) 404205.4300N/0740918.1900W (7.99)	31 TRAVERSE_WAY (34-081077) 404202.4800N/0740920.4300W (7.29)



<u>AIRPORT ID</u> EWR	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 22R	<u>AMDT NO.</u> 2A	<u>CITY</u> NEWARK	<u>STATE</u> NJ	<u>AIRPORT ELEVATION</u> 18	<u>FACILITY</u> RNAV
30 TRAVERSE_WAY (34-082913)	404202.0300N/0740920.7300W (7.24)		39 POLE (34-076729)	404206.3100N/0740917.6800W (6.43)		
43 POLE (34-083367)	404205.3700N/0740916.6100W (5.91)		31 TRAVERSE_WAY (34-083261)	404203.3300N/0740919.8900W (5.59)		
30 TRAVERSE_WAY (34-083250)	404202.9000N/0740920.1400W (5.36)		31 TRAVERSE_WAY (34-081284)	404203.7800N/0740919.6000W (4.68)		
38 POLE (34-043930)	404203.5500N/0740917.7300W (4.4)		31 TRAVERSE_WAY (34-082634)	404202.2700N/0740919.5400W (3.78)		
43 POLE (34-044071)	404203.7800N/0740916.2200W (3.71)		39 POLE (34-043587)	404201.7300N/0740917.3100W (2.99)		
31 TRAVERSE_WAY (34-081406)	404202.7200N/0740919.2600W (2.9)		38 POLE (34-043582)	404203.4100N/0740917.3500W (2.88)		
38 POLE (34-043584)	404204.4700N/0740917.2200W (2.85)		30 TRAVERSE_WAY (34-082259)	404204.2000N/0740919.3300W (2.83)		
40 POLE (34-043592)	404202.6600N/0740916.8500W (2.63)		35 POLE (34-083368)	404202.5300N/0740918.1200W (2.45)		
32 TRAVERSE_WAY (34-081434)	404203.6100N/0740918.7400W (2.3)		34 POLE (34-023881)	404205.4000N/0740918.0000W (2.25)		
34 POLE (34-043905)	404205.3500N/0740918.0000W (2.23)		29 POLE (34-023894)	404203.6000N/0740919.5000W (2.21)		
31 TRAVERSE_WAY (34-082963)	404203.1500N/0740919.0200W (2.17)		28 POLE (34-023915)	404203.1000N/0740919.8000W (2.14)		
27 POLE (34-023917)	404202.7000N/0740920.1000W (2.12)		32 TRAVERSE_WAY (34-081368)	404201.8000N/0740918.8900W (2.08)		
21 TERRAIN (34-043533)	404202.0700N/0740921.7000W (1.98)		28 POLE (34-023916)	404202.6000N/0740919.8000W (1.92)		
25 POLE (34-043531)	404201.8000N/0740920.6400W (1.79)		26 POLE (34-023919)	404202.3000N/0740920.3000W (1.71)		
28 POLE (34-026172)	404203.3500N/0740919.6400W (1.64)		30 POLE (34-023889)	404204.3000N/0740919.0000W (1.6)		
29 POLE (34-023890)	404203.9000N/0740919.3000W (1.58)		22 FENCE (34-055567)	404202.1300N/0740921.3100W (1.51)		
31 POLE (34-023888)	404204.4000N/0740918.7000W (1.5)		38 POLE (34-043588)	404205.3100N/0740916.7700W (1.49)		
27 POLE (34-023897)	404202.9000N/0740919.9000W (1.44)		26 POLE (34-023918)	404202.5000N/0740920.2000W (1.41)		
31 POLE (34-023884)	404205.0000N/0740918.6000W (1.38)		32 TRAVERSE_WAY (34-081316)	404202.1800N/0740918.6600W (1.36)		
43 POLE (34-043350)	404202.2100N/0740915.7700W (1.29)		32 POLE (34-023880)	404205.7000N/0740918.2000W (1.15)		
30 POLE (34-023892)	404204.1000N/0740918.9000W (1.13)		29 POLE (34-023891)	404203.7000N/0740919.2000W (1.11)		
25 POLE (34-026037)	404202.1600N/0740920.4100W (1.07)		29 TRAVERSE_WAY (34-081061)	404204.6400N/0740919.0700W (1.02)		
30 POLE (34-023886)	404204.7000N/0740918.8000W (1.01)		25 POLE (34-023900)	404202.1000N/0740920.4000W (1)		
30 TRAVERSE_WAY (34-082956)	404205.2000N/0740918.7200W (0.93)		31 POLE (34-023883)	404205.4000N/0740918.4000W (0.79)		
34 POLE (34-043910)	404206.2500N/0740917.5200W (0.79)		32 TRAVERSE_WAY (34-081794)	404204.4800N/0740918.2300W (0.73)		
28 POLE (34-023893)	404203.3000N/0740919.4000W (0.7)		43 POLE (34-058373)	404201.3300N/0740915.7100W (0.67)		
32 POLE (34-043861)	404201.7300N/0740918.5200W (0.63)		39 POLE (34-083373)	404202.9200N/0740916.5500W (0.6)		
27 POLE (34-023895)	404203.4000N/0740919.6000W (0.51)		21 TRAVERSE_WAY (34-044611)	404202.4000N/0740921.2600W (0.44)		
31 TRAVERSE_WAY (34-025755)	404204.0600N/0740918.4600W (0.43)		29 POLE (34-043849)	404204.0600N/0740918.9600W (0.34)		
27 POLE (34-023896)	404203.0000N/0740919.6000W (0.33)		37 POLE (34-043590)	404204.3600N/0740916.8300W (0.3)		
31 TRAVERSE_WAY (34-082138)	404206.1100N/0740918.1900W (0.29)		24 POLE (34-044613)	404201.9700N/0740920.4900W (0.29)		
33 POLE (34-043927)	404202.5000N/0740918.0800W (0.28)		21 TERRAIN (34-055569)	404202.9000N/0740921.1600W (0.27)		
17 FENCE (34-043530)	404202.4000N/0740922.2600W (0.27)		22 FENCE (34-026033)	404202.7700N/0740920.9000W (0.22)		
19 FENCE (34-020588)	404204.4300N/0740921.4900W (0.21)		30 TRAVERSE_WAY (34-082884)	404205.6600N/0740918.4600W (0.13)		
38 POLE (34-044069)	404206.1600N/0740916.3100W (0.1)		32 POLE (34-055287)	404202.0900N/0740918.3200W (0.02)		



PENETRATIONS REMARKS:

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

WAIVER 8260.58 PARA 1-3-1 C. ATC TURNS TO JOIN INITIAL AND INTERMEDIATE SEGMENTS.

APPROVAL FOR VGSi MITIGATION OF UNLIT PENETRATIONS WHEN CIRCLING TO RWY 29 AT NIGHT.

APPROVAL FOR NON-STANDARD NOTE.

100 FT VEGETATION USED.

ORDER 8260.3 CHAPTER 2 APPLIED TO 348 AAO 404633.00N/0740839.00W.

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	THLD	TO 1000FT POINT	3.47
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.29
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	205.86
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	200
DISTANCE FROM	THLD	TO 1500FT POINT	5.35
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	3.40
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	205.87
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	200

THRESHOLD COORDINATES (IF STR-IN)	404156.40N/0740951.96W
ARP COORDINATES	404132.93N/0741007.28W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 4L DISTANCE 1.14 NM
FAF COORDINATES	404553.30N/0740721.13W
FIX NAME COORDINATES	IF AGNSS 405007.75N/0740438.75W

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

THLD DISPLACED 1441FT, ACTUAL COORDINATES: 404209.22N/0740943.82W



<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>
EWR	RNAV (GPS) RWY 22R	2A	NEWARK	NJ	18	RNAV
PART E: PREPARED BY						
<u>NAME</u>			<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>	
JOHN KEEFER			AJV-A4	08/12/2025	AERONAUTICAL INFORMATION SPECIALIST	

