

**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> PRINCETON	<u>AIRPORT ID</u> 39N	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 10	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> PRINCETON/ROCKY HILL	<u>STATE</u> NJ	
<u>AIRPORT ELEVATION</u> 128	<u>TDZE</u> 128	<u>SUPERSEDED</u> RNAV (GPS) RWY 10	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 06/22/2017	<u>MAG VAR</u> 13W	<u>EPOCH YEAR</u> 2005
<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>
SBJ VOR/DME		WATIB		TF	FB	1.00	270.79	8.75	2700
WATIB	IAF	FOLAM		TF	FB	1.00	187.38	9.36	2700
DIRPE	IAF	FOLAM	NOPT	TF	FB	1.00	152.65	6.01	2700
FOLAM	IF/IAF	CUPAY		TF	FB	1.00	102.17	6.71	1800
CUPAY	FAF	HODAB/2.20 NM TO RW10		TF	FB	0.30	102.27	2.25	
HODAB/2.20 NM TO RW10		RW10	MAP	TF	FO	0.30	102.27	2.20	
RW10	MAP	441 MSL		CA			102.27		
441 MSL		JETOR		DF	FO	1.00			2700

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW10

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2700 DIRECT JETOR AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD W FOLAM, RT, 102.17 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 6000.
3. FAC: 102.27 FAF: CUPAY DIST FAF TO MAP: 4.45 DIST FAF TO THLD: 4.45
4. MIN ALT: FOLAM 2700, CUPAY 1800, HODAB/2.20 NM TO RW10 960*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 313 HAT: 0.74 GS ANT: MM: IM:
6. MIN GP INCPT: 1800 GP ALT AT FAF : CUPAY 1800 OM:
7. GP ANGLE: 3.45 34:1: IS NOT CLEAR 20:1: IS NOT CLEAR TCH: 51.0
8. MSA FROM: RW10 2700

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 10 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: BARO-VNAV NA.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
*LNAV ONLY
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON SBJ VOR/DME AIRWAY RADIALS 237 CW 309.
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: USE TRENTON ALTIMETER SETTING

ADDITIONAL FLIGHT DATA:

CHART TRENTON MERCER ASOS
CHART CIRCLING ICON
WAAS CHANNEL #86843
REFERENCE PATH ID: W10A
CHART FAS OBST: 321 TREE 402317N/0744202W.
HOLD E, RT, 282.50 INBOUND
LTP HAE: 3.2 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	441	1	313	441	1	313	441	1	313	441	1	313			
LNAV/VNAV DA	533	1 1/8	405	533	1 1/8	405	533	1 1/8	405	533	1 1/8	405			
LNAV MDA	580	1	452	580	1	452	580	1 3/8	452	580	1 3/8	452			
CIRCLING	760	1	632	840	1	712	940	2 1/2	812	1000	2 3/4	872			



CHANGES - REASONS

1. ADDED "RNP APCH" TO PBN REQUIREMENTS NOTES - IAW 8260.19H, PARA 8-6-8B(1) AND MEMO 266 DATED 7/18/2018.
2. DELETED "CHART NOTE: DME/DME RNP-0.3 NA" - IAW 8260.19H, PARA 4-6-10E AND MEMO 266 DATED 7/18/2018.
3. CHANGED CHART NOTE FROM "USE TRENTON MERCER ALTIMETER SETTING; WHEN NOT RECEIVED, USE SOMERSET ALTIMETER SETTING" TO "USE TRENTON ALTIMETER SETTING" -AND REMOVED ALL NOTES REFERENCING THE BACK-UP ALTIMETER SETTING - LOCAL WEATHER TRANSMITTED ON WMSCR AND DEEMED RELIABLE, SECONDARY ALTIMETER NOT DEVELOPED, REDUNDANT SOURCES.
4. CHANGED 8260.3 LINE 4 FROM "860" TO "960"" - CHANGED HODAB FINAL SDF MIN ALTITUDE. ADDED LPV AND LNAV/VNAV, DOCUMENTED IAW 8260.19H, PARA 8-6-7D.
5. UPDATED FROM VDA/TCH 3.00/45 TO GP/TCH 3.45/51 - MATCHED VGSI ANGLE, TCH RAISED TO MITIGATE VGS PENETRATIONS DOCUMENTED IAW 8260.19H, PARA 8-6-7G(1) AND (2).
6. ADDED "20:1 IS NOT CLEAR" - IAW 8260.19H, PARA 8-6-7G(3).
7. ADDED "CHART NOTE: BARO-VNAV NA" - IAW 8260.19H PARA 8-6-9-E(8).
8. ADDED "CHART CIRCLING ICON" TO ADDITIONAL FLIGHT DATA - NEW CIRCLING CRITERIA APPLIED.
9. DELETED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ARD VOR/DME ON V214-433 SOUTHWEST BOUND" - ARD VOR/DME REMOVED FROM PROCEDURE, FPT CHECKLIST.
10. ADDED LPV AND LNAV/VNAV MINIMUMS AND ASSOCIATED DOCUMENTATION- AIRPORT REMOVED TREES TO ALLOW FOR LPV AND LNAV/VNAV MINIMUMS, FPT CHECKLIST.
11. ADDED CAT D MINIMUMS - PER FPT CHECKLIST.
12. CHANGED CA LEG ALTITUDE FROM 528 MSL TO 441 MSL - UPDATED EVALUATION BASED ON LPV DA.
13. LOWERED CIRCLING CAT A MDA/HAA FROM 780/652 TO 760/632 - NEW OBSTACLE DATA.
14. RAISED CIRCLING CAT B MDA/HAA FROM 800/672 TO 840/712, CIRCLING CAT C MDA/HAA FROM 860/732 TO 940/812 - APPLIED NEW CIRCLING CRITERIA, NEW OBSTACLE DATA.
15. RAISED CIRCLING CAT C VISIBILITY FROM 2 TO 2 1/2 - UPDATED EVALUATION, MDA RAISED.
16. REMOVED ARD VOR/DME FEEDER TO HILOG INITIAL SEGMENT - FPT CHECKLIST, DUE TO ATC NON USE.
17. REMOVED HILOG TO FOLAM INITIAL SEGMENT - FPT CHECKLIST, DUE TO ATC NON USE.
18. REMOVED INITIAL FROM TECUT - SEGMENT LENGTHENED PER FPT REQUEST, EXTENDS TO NEW FIX WATIB.
19. ADDED NEW SEGMENT FROM SBJ VOR/DME TO WATIB TO FOLAM - FPT REQUEST TO SOFTEN TURN ANGLE AND MEET MINIMUM LEG LENGTHS REQUIREMENTS.
20. ADDED NEW TRANSTITION FROM DIRPE TO FOLAM - PROVIDES SHORTER ROUTE, FPT REQUEST.
21. CHANGED FOLAM INTERMEDIATE TO CUPAY FINAL SEGMENT DISTANCE FROM 6.1 NM TO 6.71 NM - CHANGED DESCENT ANGLE FROM 3.00 TO 3.45 THIS MOVED THE PFAF CUPAY 0.62 NM EAST.
22. CHANGED CUPAY FINAL TO HODAB STEPDOWN SEGMENT COURSE/DISTANCE FROM 102.26/2.86 TO 102.27/2.25 - CHANGED DESCENT ANGLE FROM 3.00 TO 3.45 THIS MOVED THE PFAF CUPAY 0.62 NM EAST.
23. CHANGED HODAB/2.20 NM STEPDOWN TO RW10 SEGMENT COURSE AND MISSED APPROACH POINT COURSE FROM 102.26 TO 102.27 - UPDATED EVALUATION BASED ON CUPAY MOVED 0.62 NM EAST.
24. CHANGED "DIST FAF TO MAP/THLD 5.06" TO "DIST FAF TO MAP/THLD: 4.45" - IAW 8260.19H, PARA 8-6-7C(3) AND (4).
25. CHANGED "CHART NOTE: RWY 10, 28 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" TO "CHART NOTE: RWY 10 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED." - VISIBILITY REDUCTION APPLIES TO THE STRAIGHT IN RWY ONLY.
26. ADDED MAX HOLDING 6000 AT FOLAM - MAX ALTITUDE FROM 8260-2.
27. CHANGED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON SBJ VOR/DME AIRWAY RADIAL 237 CW 295" TO "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON SBJ VOR/DME AIRWAY RADIAL 237 CW 309" - MAXIMUM ALLOWABLE COURSE CHANGE IS 90 DEGREES, AIRWAY AT 309 RADIAL IS MORE THAN A 90 DEGREE TURN WHICH IS PROHIBITED, DOCUMENTED IAW 8260.19H PARA 8-2-5(E).
28. CHANGED MSA FROM 2600 TO 2700 - NEW OBSTACLE EVALUATION.

COORDINATED WITH:

A4A

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ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER:

ZNY, NY TRACON, AIRPORT MANAGER

FLIGHT CHECKED BY

BOB S PRESSLER

Digitally signed by

DAVID TEFFETELLER

OFFICE

FICO

DATE

3/8/2020

Digitally signed by Mar 24, 2020

DEVELOPED BY

DAVID TEFFETELLER (GUY COPELAND)

DAVID TEFFETELLER

Mar 24, 2020

OFFICE

AJV-A433

DATE

11/11/2019

APPROVED BY

GEORGE DAVIS

Digitally signed by

DAVID TEFFETELLER

Mar 24, 2020

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	39N
RUNWAY	RW10
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W10A
LTP/FTP LATITUDE	402356.5190N
LTP/FTP LONGITUDE	0743955.0355W
LTP/FTP ELLIPSOIDAL HEIGHT	+00032
FPAP LATITUDE	402357.5420N
FPAP LONGITUDE	0743758.4190W
THRESHOLD CROSSING HEIGHT (TCH)	00051.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.45
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1680
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	F08496E8

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00366
FPAP ORTHOMETRIC HEIGHT	+00366



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

<u>AIRPORT</u> PRINCETON	<u>AIRPORT ID</u> 39N	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 10	<u>AMDT NO.</u> 2	<u>CITY</u> PRINCETON/ROCKY HILL	<u>STATE</u> NJ	<u>AIRPORT ELEVATION</u> 128	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

<u>FROM</u> SBJ VOR/DME	<u>TO</u> WATIB
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<u>RNP</u>	<u>DISTANCE</u> 8.75	<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	403554.00N/0744927.00W		1109	164	98	4E	1000				AT591	2700
2.TERRAIN	403554.00N/0744927.00W		908 (900)								AS1500	2400

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

INITIAL

<u>FROM</u> WATIB	<u>TO</u> FOLAM
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<u>RNP</u>	<u>DISTANCE</u> 9.36	<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.TOWER (34-000592)	403317.00N/0745415.00W		975	100	20	3C	1000				AT725	2700
4.TERRAIN	403248.00N/0745557.00W		698 (700)								AS1500	2200

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



INITIAL

FROM
DIRPE

TO
FOLAM

RNP	DISTANCE 6.01	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.AAO	402751.00N/0750000.00W		781	164	98	4E	1000				AT919	2700
6.TERRAIN	402748.00N/0750000.00W		580 (600)								AS1500	2100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM
FOLAM (IF/IAF)

TO
CUPAY

RNP	DISTANCE 6.71	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.TOWER (34-000119)	402449.52N/0744836.43W		826	20	3	1A	500				AT474	1800
8.TERRAIN	402512.00N/0744727.00W		574 (600)								AS1000	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LPV

FROM
CUPAY

TO
RW10

<u>RNP</u>	<u>DISTANCE</u> 4.47	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 313			<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.TREE (34-021816)	402351.89N/0744014.76W		201	50	20	2C		29.57:1			RA33 SA-1 MA28	441

COMPUTATIONS

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

FINAL: LNAV/VNAV

FROM
CUPAY

TO
RW10

<u>RNP</u>	<u>DISTANCE</u> 4.45	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 405			<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.TREE	402317.39N/0744028.18W		319	50	20	2C	161				RA33 AC20 SA-33 MA33	533

COMPUTATIONS

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



FINAL: LNAV

FROM

CUPAY

TO

HODAB/2.20 NM TO RW10

<u>RNP</u>	<u>DISTANCE</u> 2.25	<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>
11.AAO	402435.43N/0744444.50W		639	50	20	2C	250				RA33 DG38	960

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM

HODAB/2.20 NM TO RW10

TO

RW10

<u>RNP</u>	<u>DISTANCE</u> 2.20	<u>PAT</u>	<u>MAP</u> RW10	<u>HAT</u> 452			<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>
12.TREE (34-029716)	402316.82N/0744202.10W		321	20	10	1B	250				SA-34 RA33	580

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



HOLD-IN-LIEU OF PT

FROM
FOLAM

TO
P-5

RNP	DISTANCE	PAT P-5	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
13.AAO	402433.00N/0744936.00W		742	164	98	4E	1000				AT958	2700
14.TERRAIN	402433.00N/0744936.00W		541 (500)								AS1500	2000

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
JETOR

RNP	DISTANCE	PAT	MAP	HAT			HMAS 193					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
15. TREE (34-021749)	402354.17N/0744021.70W		205	50	20	2C		ASC				2700
16.TOWER (34-000552)	402446.40N/0743605.16W		597	20	10	1B	1000					1600
17.TERRAIN	402400.00N/0743706.00W		360 (400)								AS1500	1900

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

LPV MISSED PENETRATION TREE (34-021749). 402354.17N/0744021.70W. 205 MSL. 2C AC. ASC. MINIMUM ALTITUDE 2700.



MISSED APPROACH : LNAV/VNAV

FROM

DA

TO

JETOR

RNP	DISTANCE	PAT	MAP	HAT			HMAS 339					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
18. TREE	402316.60N/0743959.85W		339	50	20	2C		ASC				2700
16.TOWER (34-000552)	402446.40N/0743605.16W		597	20	10	1B	1000					1600
17.TERRAIN	402400.00N/0743706.00W		360 (400)								AS1500	1900

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

LNAV/VNAV MISSED PENETRATION TREE. 402316.60N/0743959.85W. 339 MSL. 2C AC. ASC. MINIMUM ALTITUDE 2700.

MISSED APPROACH : LNAV

FROM

RW10

TO

JETOR

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
							447					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2700
16.TOWER (34-000552)	402446.40N/0743605.16W		597	20	10	1B	1000					1600
17.TERRAIN	402400.00N/0743706.00W		360 (400)								AS1500	1900

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



FACILITY
RNAV



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZNY ARTCC, NY TRACON

WX SERVICE ASOS	LOCATION KTTN	HRS OPERATION 24	ALTIMETER SOURCE KTTN	DISTANCE 10.274	SERVICE-A Y	ADJUSTMENTS 33
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS

WX REMARKS:
SECONDARY ALTIMETER NOT DEVELOPED, REDUNDANT SOURCES.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
APPROACH AND RUNWAY LIGHTING SYSTEM		RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW10 - MIRL (PCL), REIL (PCL), PAPI-2L		NPI-G	
RW28 - MIRL (PCL), PAPI-2L		NPI-G	

GLIDESLOPE ANGLE 3.45	ELEV RWY THRESHOLD 120	TCH 51.0	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE 3.45	TCH 41.5
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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

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	CIRCLING K39N:RW10		
20:1			
145 TREE (34-029917) 402354.12N/0744001.95W (8.11)			
Final Type	CIRCLING K39N:RW28		
20:1			

QUALITY
24
CHECKED



205 TREE (34-071098) 402359.96N/0743858.14W (23.11)		207 TREE (34-072125) 402400.62N/0743857.00W (20.66)	
180 TREE (34-071370) 402359.63N/0743903.69W (19.6)		202 TREE (34-072018) 402359.74N/0743857.38W (17.18)	
176 TREE (34-058489) 402358.99N/0743902.76W (12.04)		182 TREE (34-030125) 402358.08N/0743901.06W (11.52)	
173 TREE (34-055455) 402359.08N/0743903.32W (11.2)		172 TREE (34-055193) 402356.09N/0743903.43W (10.8)	
183 TREE (34-030120) 402357.85N/0743900.38W (9.9)		178 TREE (34-030121) 402358.25N/0743901.65W (9.79)	
210 TREE (34-071264) 402359.68N/0743853.32W (9.48)		169 POLE (34-023985) 402359.25N/0743903.87W (9.32)	
187 TRANSMISSION_LINE (34-006079) 402400.00N/0743859.00W (8.44)		168 TREE (34-030103) 402356.78N/0743903.25W (6.06)	
177 TREE (34-055191) 402358.47N/0743900.94W (6.03)		207 TREE (34-029920) 402359.54N/0743853.02W (5.33)	
183 TREE (34-071872) 402400.31N/0743859.23W (5.31)		207 TREE (34-071827) 402359.65N/0743852.80W (4.47)	
205 TREE (34-030011) 402359.84N/0743853.12W (3.7)		163 POLE (34-023984) 402358.79N/0743903.93W (3.58)	
165 BUILDING (34-024030) 402356.39N/0743902.85W (1.54)		163 BUILDING (34-072234) 402359.79N/0743903.16W (0.54)	
186 TREE (34-030440) 402356.47N/0743857.10W (0.29)			
Final Type	LPV, LNAV/VNAV, AND LNAV		
20:1			
145 TREE (34-029917) 402354.12N/0744001.95W (8.11)			
Final Type	LPV, LNAV/VNAV, AND LNAV		
34:1			
177 TREE (34-056478) 402354.15N/0744014.27W (19.03)		166 TREE (34-071579) 402354.02N/0744009.70W (18.43)	
168 TREE (34-021756) 402353.92N/0744011.25W (16.9)		167 TREE (34-071598) 402354.32N/0744010.96W (16.57)	
170 TREE (34-021790) 402353.25N/0744012.85W (15.23)		171 TREE (34-071905) 402353.65N/0744013.74W (14.22)	
172 TREE (34-029799) 402354.93N/0744014.35W (13.88)		172 TREE (34-021789) 402352.98N/0744014.69W (13.04)	
165 TREE (34-029795) 402353.91N/0744011.88W (12.46)		154 TREE (34-029791) 402354.81N/0744007.22W (12.1)	
170 TREE (34-029825) 402353.57N/0744014.59W (11.29)		185 TREE (34-021749) 402354.17N/0744021.70W (10.13)	
157 TREE (34-071199) 402354.46N/0744009.41W (10.1)		165 TREE (34-029797) 402353.81N/0744013.31W (9.21)	
173 TREE (34-071796) 402352.46N/0744016.83W (9.15)		180 TREE (34-021786) 402353.49N/0744020.03W (8.9)	
139 TREE (34-029918) 402354.22N/0744002.57W (7.66)		137 TREE (34-071963) 402354.72N/0744002.03W (6.9)	
179 TREE (34-029828) 402354.18N/0744020.64W (6.54)		137 TREE (34-071687) 402354.77N/0744002.39W (6.09)	
160 TREE (34-072224) 402354.43N/0744012.55W (5.96)		169 TREE (34-021754) 402354.66N/0744016.59W (5.77)	
134 TRAVERSE_WAY (34-026306) 402357.76N/0744001.50W (5.22)		173 TREE (34-021812) 402352.31N/0744018.58W (5.16)	

QUALITY

24



163 TREE (34-071560) 402354.71N/0744014.61W (4.28)	136 TREE (34-071640) 402354.75N/0744002.96W (3.79)
137 TREE (34-071109) 402354.78N/0744003.46W (3.65)	165 TREE (34-021755) 402355.65N/0744016.01W (3.13)
131 TREE (34-029894) 402357.86N/0744001.19W (2.93)	143 TREE (34-029789) 402354.95N/0744006.64W (2.42)
152 TREE (34-029794) 402354.94N/0744010.81W (1.93)	176 TREE (34-072191) 402352.00N/0744021.52W (1.46)
154 TREE (34-029796) 402354.76N/0744012.42W (0.26)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

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

PART C: GENERAL REMARKS:
VDP NOT ESTABLISHED - 20:1 PENETRATIONS, REMOTE PRIMARY ALTIMETER.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
VGSI ANGLE/TCH NOT COINCIDENT DUE TO VGS PENETRATIONS
ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT</u> PRINCETON	<u>AIRPORT ID</u> 39N	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 10	<u>AMDT NO.</u> 2	<u>CITY</u> PRINCETON/ROCKY HILL	<u>STATE</u> NJ	<u>AIRPORT ELEVATION</u> 128	<u>FACILITY</u> RNAV
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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	3.36
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	89.27
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	400
DISTANCE FROM	THLD	TO 1500FT POINT	9.26
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	89.17
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	600
THRESHOLD COORDINATES (IF STR-IN)	402356.52N/0743955.04W		
ARP COORDINATES	402356.72N/0743932.42W		
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 28 DISTANCE 0.29 NM		
FAF COORDINATES	402353.26N/0744544.24W		
FIX NAME COORDINATES			
REMARKS			

QUALITY
24
CHECKED

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

Electronic Version

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PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
DAVID TEFFETELLER (GUY COPELAND)	AJV-A433	11/11/2019	AERONAUTICAL INFORMATION SPECIALIST

