

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
PROVIDENCE, RI	THEODORE FRANCIS GREEN STATE	7 DECEMBER 2017	13

TAKEOFF MINIMUMS:

RWY 05, 16, 23: STANDARD.

RWY 34: 300-2 WITH MINIMUM CLIMB OF 220 FT PER NM TO 1100 OR STANDARD WITH MINIMUM CLIMB OF 250 FT PER NM TO 500 OR 1000-2 1/2 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

RWY 23 - CLIMB ON HEADING 227.18 TO 700 BEFORE TURNING RIGHT.

VISUAL CLIMB OVER AIRPORT:

RWY 34: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS THEODORE FRANCIS GREEN STATE AIRPORT AT OR ABOVE 900 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 05, TERRAIN 22 FT FROM DER, 437 FT LEFT OF CENTERLINE, 45 FT MSL.
LIGHTING 675 FT FROM DER, 598 FT LEFT OF CENTERLINE, 68 FT MSL.
TREE 794 FT FROM DER, 614 FT LEFT OF CENTERLINE, 74 FT MSL.
TREE 880 FT FROM DER, 722 FT RIGHT OF CENTERLINE, 78 FT MSL.
TREES BEGINNING 1215 FT FROM DER, 497 FT LEFT OF CENTERLINE, UP TO 107 FT MSL.
TREE 1303 FT FROM DER, 849 FT RIGHT OF CENTERLINE, 88 FT MSL.
TREES BEGINNING 1464 FT FROM DER, 733 FT RIGHT OF CENTERLINE, UP TO 105 FT MSL.
TREES BEGINNING 2080 FT FROM DER, 454 FT LEFT OF CENTERLINE, UP TO 115 FT MSL.
TREES BEGINNING 2205 FT FROM DER, 783 FT RIGHT OF CENTERLINE, UP TO 120 FT MSL.

NOTE: RWY 16, TERRAIN 32 FT FROM DER, 221 FT RIGHT OF CENTERLINE, 34 FT MSL.
TREE, BUILDING, TERRAIN BEGINNING 82 FT FROM DER, 136 FT RIGHT OF CENTERLINE, UP TO 71 FT MSL.
TREE 406 FT FROM DER, 579 FT LEFT OF CENTERLINE, 49 FT MSL.
TREES BEGINNING 1172 FT FROM DER, 792 FT LEFT OF CENTERLINE, UP TO 72 FT MSL.
TREES BEGINNING 1468 FT FROM DER, 407 FT LEFT OF CENTERLINE, UP TO 87 FT MSL.
TREE 1570 FT FROM DER, 827 FT RIGHT OF CENTERLINE, 85 FT MSL.
TREE, POLE BEGINNING 1585 FT FROM DER, 490 FT LEFT OF CENTERLINE, UP TO 110 FT MSL.
TREE 1659 FT FROM DER, 911 FT RIGHT OF CENTERLINE, 92 FT MSL.
TREE 2014 FT FROM DER, 907 FT LEFT OF CENTERLINE, 113 FT MSL.
TREES BEGINNING 2015 FT FROM DER, 759 FT LEFT OF CENTERLINE, UP TO 119 FT MSL.
POLE, TREE BEGINNING 2534 FT FROM DER, 22 FT RIGHT OF CENTERLINE, UP TO 118 FT MSL.
TREES BEGINNING 2563 FT FROM DER, 9 FT LEFT OF CENTERLINE, UP TO 90 FT AGL/123 FT MSL.
TREE, POLE BEGINNING 2932 FT FROM DER, 28 FT RIGHT OF CENTERLINE, UP TO 82 FT AGL/119 FT MSL.
TANK, TREE, POLE BEGINNING 2957 FT FROM DER, 2 FT RIGHT OF CENTERLINE, UP TO 121 FT MSL.
TREE, POLE BEGINNING 3146 FT FROM DER, 9 FT RIGHT OF CENTERLINE, UP TO 87 FT AGL/123 FT MSL.
TOWER 3891 FT FROM DER, 1346 FT RIGHT OF CENTERLINE, 94 FT AGL/131 FT MSL.

NOTE: RWY 23, TRAVERSE WAY 206 FT FROM DER, 554 FT LEFT OF CENTERLINE, 61 FT MSL.
POLE 331 FT FROM DER, 588 FT LEFT OF CENTERLINE, 86 FT MSL.
TERRAIN 530 FT FROM DER, 613 FT RIGHT OF CENTERLINE, 67 FT MSL.
TREE, POLE BEGINNING 661 FT FROM DER, 485 FT RIGHT OF CENTERLINE, UP TO 85 FT MSL.
TREE 1004 FT FROM DER, 585 FT RIGHT OF CENTERLINE, 101 FT MSL.
TREE 1007 FT FROM DER, 723 FT LEFT OF CENTERLINE, 116 FT MSL.
TREES BEGINNING 1099 FT FROM DER, 494 FT RIGHT OF CENTERLINE, UP TO 114 FT MSL.
TREES BEGINNING 1181 FT FROM DER, 720 FT LEFT OF CENTERLINE, UP TO 117 FT MSL.
TREES BEGINNING 1512 FT FROM DER, 591 FT LEFT OF CENTERLINE, UP TO 124 FT MSL.
TREE 1583 FT FROM DER, 908 FT RIGHT OF CENTERLINE, 119 FT MSL.
TREES BEGINNING 1697 FT FROM DER, 497 FT RIGHT OF CENTERLINE, UP TO 123 FT MSL.
TREES BEGINNING 1917 FT FROM DER, 494 FT LEFT OF CENTERLINE, UP TO 125 FT MSL.
TREES BEGINNING 2066 FT FROM DER, 531 FT RIGHT OF CENTERLINE, UP TO 87 FT AGL/137 FT MSL.

NOTE: RWY 34, FENCE BEGINNING 71 FT FROM DER, 313 FT LEFT OF CENTERLINE, UP TO 59 FT MSL.
BUILDING, SIGN, FENCE BEGINNING 105 FT FROM DER, 288 FT RIGHT OF CENTERLINE, UP TO 23 FT AGL/76 FT MSL.
FENCE 210 FT FROM DER, 209 FT LEFT OF CENTERLINE, 8 FT AGL/61 FT MSL.
TREE, TRAVERSE WAY, POLE BEGINNING 296 FT FROM DER, 9 FT RIGHT OF CENTERLINE, UP TO 110 FT MSL.
POLE BEGINNING 309 FT FROM DER, 22 FT LEFT OF CENTERLINE, UP TO 73 FT MSL.
NAVAID 400 FT FROM DER, 189 FT LEFT OF CENTERLINE, 20 FT AGL/74 FT MSL.
TANK, TREE, POLE, TRAVERSE WAY, BUILDING BEGINNING 414 FT FROM DER, 8 FT RIGHT OF CENTERLINE, UP TO 120 FT MSL.
BUILDING, POLE BEGINNING 437 FT FROM DER, 94 FT LEFT OF CENTERLINE, UP TO 77 FT MSL.
BUILDING 519 FT FROM DER, 495 FT LEFT OF CENTERLINE, 84 FT MSL.
BUILDING, TRAVERSE WAY BEGINNING 546 FT FROM DER, 276 FT LEFT OF CENTERLINE, UP TO 27 FT AGL/85 FT MSL.
POLE, LIGHTING, BUILDING BEGINNING 588 FT FROM DER, 53 FT LEFT OF CENTERLINE, UP TO 88 FT MSL.

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TREE, LIGHTING, BUILDING, POLE, ELECTRICAL SYSTEM BEGINNING 643 FT FROM DER, 29 FT LEFT OF CENTERLINE, UP TO 39 FT AGL/94 FT MSL.
POLE, BUILDING BEGINNING 828 FT FROM DER, 162 FT LEFT OF CENTERLINE, UP TO 100 FT MSL.
POLE, TREE, BUILDING BEGINNING 960 FT FROM DER, 146 FT LEFT OF CENTERLINE, UP TO 101 FT MSL.
POLE, TREE BEGINNING 1091 FT FROM DER, 45 FT LEFT OF CENTERLINE, UP TO 103 FT MSL.
TREE, POLE BEGINNING 1255 FT FROM DER, 188 FT LEFT OF CENTERLINE, UP TO 140 FT MSL.
TREE, POLE BEGINNING 1407 FT FROM DER, 27 FT LEFT OF CENTERLINE, UP TO 145 FT MSL.
TREE 1492 FT FROM DER, 793 FT RIGHT OF CENTERLINE, 121 FT MSL.
TREES BEGINNING 1568 FT FROM DER, 172 FT RIGHT OF CENTERLINE, UP TO 127 FT MSL.
TREES BEGINNING 2306 FT FROM DER, 421 FT RIGHT OF CENTERLINE, UP TO 129 FT MSL.
TREES BEGINNING 2407 FT FROM DER, 154 FT RIGHT OF CENTERLINE, UP TO 131 FT MSL.
TREE 2524 FT FROM DER, 388 FT RIGHT OF CENTERLINE, 132 FT MSL.
TREES BEGINNING 2589 FT FROM DER, 435 FT RIGHT OF CENTERLINE, UP TO 133 FT MSL.
TREES BEGINNING 2953 FT FROM DER, 155 FT RIGHT OF CENTERLINE, UP TO 138 FT MSL.
TREE 3262 FT FROM DER, 1065 FT RIGHT OF CENTERLINE, 93 FT AGL/143 FT MSL.
TOWER 1.4 NM FROM DER, 2915 FT RIGHT OF CENTERLINE, 255 FT AGL/310 FT MSL.
TOWER 1.5 NM FROM DER, 2927 FT RIGHT OF CENTERLINE, 282 FT AGL/334 FT MSL.

CONTROLLING OBSTACLES:

RWY 34: 334 FT TOWER 414522.55N/0712640.38W (CG/CEILING/VISIBILITY), 827 FT TOWER 414816.97N/0712821.97W (CLIMB TO ALTITUDE).

OBSTACLE MANDATING ROUTE DEVELOPMENT: RWY 23: 550 FT AAO 414037.56N/0712947.35W.

VCOA: 519 FT AAO 414422.30N/0713019.62W (VISUAL CLIMB AREA), 827 FT TOWER 414816.97N/0712821.97W (DIVERSE AREA).

REMARKS:

12/07/2017

FLIGHT INSPECTED BY:

pending

OFFICE SYMBOL: **DATE:**

Digitally signed by

ROBERT G HAMILTON

Sep 11, 2017

DEVELOPED BY:

Digitally signed by

DUSTIN DAVIDSON

DUSTIN DAVIDSON

Aug 29, 2017

OFFICE SYMBOL: **DATE:**
AJV-5422 07/11/2017

APPROVED BY:

JULIE MORGAN

Digitally signed by

ROBERT G HAMILTON

Sep 11, 2017

OFFICE SYMBOL: **DATE:**
AJV-5420

REQUIRED EFFECTIVE DATE:

12/07/2017

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:

ZBW, PVD APP CON, AMGR

CHANGES - REASONS:

CHANGES:

1. CHANGED RWY 34 TAKEOFF MINIMUMS FROM "STANDARD WITH A MINIMUM CLIMB OF 269 FEET PER NM TO 500,OR 300-2 WITH A MINIMUM CLIMB OF 250 FEET PER NM TO 1200, OR 1000- 2 1/2 FOR CLIMB IN VISUAL CONDITIONS" TO "300-2 WITH MINIMUM CLIMB OF 220 FT PER NM TO 1100 OR STANDARD WITH MINIMUM CLIMB OF 250 FT PER NM TO 500 OR 1000-2 1/2 FOR VCOA".
2. ADDED RWY 23 - CLIMB ON HEADING 227.18 TO 700 BEFORE TURNING RIGHT TEXTUAL DEPARTURE PROCEDURE.
3. UPDATED VCOA INSTRUCTIONS FROM "RWY 34- FOR CLIMB IN VISUAL CONDITIONS: CROSS THEODORE FRANCIS GREEN STATE AIRPORT AT OR ABOVE 900 MSL BEFORE PROCEEDING ON COURSE" TO "RWY 34: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS THEODORE FRANCIS GREEN STATE AIRPORT AT OR ABOVE 900 BEFORE PROCEEDING ON COURSE".
4. UPDATED TAKEOFF OBSTACLE NOTES.
5. UPDATED RWY 34 CONTROLLING OBSTACLES FROM "310 MSL TOWER 414522.00N/0712640.00W, 828 MSL TOWER 414817.00N/0712822.00W, 755



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TOWER 414540.00N0713125.00W" TO "334 FT TOWER 414522.55N/0712640.38W (CG/CEILING/VISIBILITY), 827 FT TOWER 414816.97N/0712821.97W (CLIMB-TO ALTITUDE)".

6. ADDED RWY 34 OBSTACLE MANDATING ROUTE.

7. UPDATED VCOA CONTROLLING OBSTACLES FROM "RWY 34: (VCOA) 310 MSL TOWER 414522.00N0712640.00W, 828 MSL TOWER 414817.00N0712822.00W" TO "VCOA: 519 FT AAO 414422.30N/0713019.62W (VISUAL CLIMB AREA), 827 FT TOWER 414816.97N/0712821.97W (DIVERSE AREA)".

REASONS:

1. SURVEYED OBSTACLES UPDATED FROM 310 MSL TOWER 414522.00N/0712640.00W TO 334 FT TOWER 414522.55N/0712640.38W; FROM 828 MSL TOWER 414817.00N0712822.00W TO 827 FT TOWER 414816.97N/0712821.97W CAUSING NEW CG AND CLIMB TO ALTITUDE FIGURES.
2. CLEAR AAO OUTSIDE OF ICA EXTENDED AREA.
3. CURRENT CRITIRIA FORMAT.
4. NEW RWY SURVEYS SINCE LAST PROCEDURE AMENDMENT.
5. SURVEYED OBSTACLES UPDATED SINCE LAST PROCEDURE DEVELOPMENT.
6. MAP STUDY IDENTIFIED NEW TERRAIN HIGH POINT.
7. SURVEYED OBSTACLES UPDATED SINCE LAST PROCEDURE DEVELOPMENT AND MAP STUDY IDENTIFIED NEW TERRAIN HIGH POINT.