

**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>AIRPORT</u> | <u>AIRPORT ID</u> | <u>CITY</u> | <u>STATE</u> | <u>AMDT NO</u> | <u>ACTUAL EFFECTIVE DATE</u> |
|----------------|-------------------|-------------|--------------|----------------|------------------------------|
| CONCORD MUNI | KCON | CONCORD | NH | 5 | 24 MARCH 2022 |

TAKEOFF MINIMUMS:

RWY 12: 600-3 WITH MINIMUM CLIMB OF 235 FT PER NM TO 2200 OR STANDARD WITH MINIMUM CLIMB OF 310 FT PER NM TO 1500 OR 1300-3 FOR CLIMB IN VISUAL CONDITIONS.

RWY 17: 300-2 1/4 OR STANDARD WITH MINIMUM CLIMB OF 260 FT PER NM TO 700.

RWY 30: STANDARD WITH MINIMUM CLIMB OF 240 FT PER NM TO 1200 OR 1300-3 FOR CLIMB IN VISUAL CONDITIONS.

RWY 35: STANDARD.

TEXTUAL DEPARTURE PROCEDURES:

RWY 12: CLIMB HEADING 121.04 TO 1400 BEFORE PROCEEDING ON COURSE.

RWY 17: CLIMB HEADING 171.06 TO 1000 BEFORE TURNING LEFT.

RWY 35: CLIMB HEADING 351.06 TO 1300 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

RWY 12, 30: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS CONCORD AIRPORT AT OR ABOVE 1500 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 12:

TREES, VEGETATION BEGINNING AT DER, 7 FT LEFT OF CENTERLINE, UP TO 16 FT AGL/361 FT MSL.

TREES, VEGETATION, POLE BEGINNING 5 FT FROM DER, 100 FT RIGHT OF CENTERLINE, UP TO 54 FT AGL/396 FT MSL.

TREES BEGINNING 623 FT FROM DER, 297 FT LEFT OF CENTERLINE, UP TO 64 FT AGL/391 FT MSL.

TREES BEGINNING 1032 FT FROM DER, 131 FT LEFT OF CENTERLINE, UP TO 86 FT AGL/421 FT MSL.

TREE 1075 FT FROM DER, 552 FT RIGHT OF CENTERLINE, 54 FT AGL/397 FT MSL.

TREES BEGINNING 1417 FT FROM DER, 207 FT RIGHT OF CENTERLINE, UP TO 97 FT AGL/431 FT MSL.

TREE 1 NM FROM DER, 2143 FT RIGHT OF CENTERLINE, 107 FT AGL/513 FT MSL.

TREE 1.4 NM FROM DER, 2160 FT LEFT OF CENTERLINE, 76 FT AGL/622 FT MSL.

TREES BEGINNING 1.6 NM FROM DER, 1010 FT LEFT OF CENTERLINE, UP TO 78 FT AGL/639 FT MSL.

TREE 1.6 NM FROM DER, 331 FT LEFT OF CENTERLINE, 66 FT AGL/655 FT MSL.

TREE 1.6 NM FROM DER, 154 FT RIGHT OF CENTERLINE, 97 FT AGL/662 FT MSL.

TREE 1.8 NM FROM DER, 699 FT LEFT OF CENTERLINE, 78 FT AGL/768 FT MSL.

TREES, VEGETATION BEGINNING 1.9 NM FROM DER, 245 FT LEFT OF CENTERLINE, UP TO 82 FT AGL/789 FT MSL.

TREES BEGINNING 1.9 NM FROM DER, 298 FT RIGHT OF CENTERLINE, UP TO 89 FT AGL/777 FT MSL.

TREES BEGINNING 2.2 NM FROM DER, 1068 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/832 FT MSL.

TREES, BUILDING, VEGETATION BEGINNING 2.3 NM FROM DER, 1898 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/862 FT MSL.

NOTE: RWY 17:

TREES BEGINNING 96 FT FROM DER, 285 FT LEFT OF CENTERLINE, UP TO 35 FT AGL/350 FT MSL.

TREES BEGINNING 497 FT FROM DER, 523 FT LEFT OF CENTERLINE, UP TO 88 FT AGL/367 FT MSL.

TREES BEGINNING 791 FT FROM DER, 591 FT LEFT OF CENTERLINE, UP TO 79 FT AGL/378 FT MSL.

TREE 984 FT FROM DER, 601 FT RIGHT OF CENTERLINE, 49 FT AGL/379 FT MSL.

TREES BEGINNING 1093 FT FROM DER, 509 FT RIGHT OF CENTERLINE, UP TO 77 FT AGL/406 FT MSL.

TREE 1.2 NM FROM DER, 1048 FT LEFT OF CENTERLINE, 92 FT AGL/529 FT MSL.

TREES BEGINNING 1.3 NM FROM DER, 1282 FT LEFT OF CENTERLINE, UP TO 84 FT AGL/606 FT MSL.

TREES, TOWER 1.5 NM FROM DER, 1881 FT LEFT OF CENTERLINE, UP TO 90 FT AGL/618 FT MSL.

NOTE: RWY 30:

TREE 554 FT FROM DER, 563 FT RIGHT OF CENTERLINE, 18 FT AGL/360 FT MSL.

TOWER, POLE BEGINNING 612 FT FROM DER, 580 FT LEFT OF CENTERLINE, UP TO 38 FT AGL/378 FT MSL.

BUILDING 626 FT FROM DER, 185 FT RIGHT OF CENTERLINE, 21 FT AGL/362 FT MSL.

TREE, POLE BEGINNING 845 FT FROM DER, 484 FT RIGHT OF CENTERLINE, UP TO 55 FT AGL/396 FT MSL.

TREES BEGINNING 938 FT FROM DER, 607 FT RIGHT OF CENTERLINE, UP TO 56 FT AGL/397 FT MSL.

TREES, POLE, BUILDING BEGINNING 997 FT FROM DER, 522 FT RIGHT OF CENTERLINE, UP TO 59 FT AGL/400 FT MSL.

TREES, TOWER, BUILDING BEGINNING 1132 FT FROM DER, 381 FT LEFT OF CENTERLINE, UP TO 93 FT AGL/425 FT MSL.

TREES BEGINNING 1429 FT FROM DER, 126 FT LEFT OF CENTERLINE, UP TO 98 FT AGL/430 FT MSL.

TREE 2108 FT FROM DER, 140 FT RIGHT OF CENTERLINE, 78 FT AGL/412 FT MSL.

TREE 2186 FT FROM DER, 351 FT LEFT OF CENTERLINE, 104 FT AGL/434 FT MSL.

TREE 2241 FT FROM DER, 369 FT LEFT OF CENTERLINE, 106 FT AGL/436 FT MSL.

TREE 2260 FT FROM DER, 599 FT LEFT OF CENTERLINE, 106 FT AGL/438 FT MSL.

TREE 2266 FT FROM DER, 321 FT LEFT OF CENTERLINE, 111 FT AGL/440 FT MSL.

TREES BEGINNING 2303 FT FROM DER, 271 FT LEFT OF CENTERLINE, UP TO 112 FT AGL/442 FT MSL.

TREES BEGINNING 2403 FT FROM DER, 47 FT RIGHT OF CENTERLINE, UP TO 105 FT AGL/437 FT MSL.



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NOTE: RWY 35:

FENCE 259 FT FROM DER, 491 FT LEFT OF CENTERLINE, 8 FT AGL/348 FT MSL.
VEHICLE ON ROAD 277 FT FROM DER, 506 FT LEFT OF CENTERLINE, 356 FT MSL.
BUILDINGS, TREE, VEHICLE ON ROAD BEGINNING 297 FT FROM DER, 90 FT LEFT OF CENTERLINE, UP TO 21 FT AGL/362 FT MSL.
TREE 540 FT FROM DER, 42 FT RIGHT OF CENTERLINE, 18 FT AGL/360 FT MSL.
TREES, POLE BEGINNING 564 FT FROM DER, 171 FT RIGHT OF CENTERLINE, UP TO 57 FT AGL/400 FT MSL.
TREES, POLE BEGINNING 646 FT FROM DER, 51 FT RIGHT OF CENTERLINE, UP TO 72 FT AGL/415 FT MSL.
POLE 704 FT FROM DER, 276 FT LEFT OF CENTERLINE, 31 FT AGL/372 FT MSL.
TREES BEGINNING 713 FT FROM DER, 191 FT LEFT OF CENTERLINE, UP TO 55 FT AGL/396 FT MSL.
TREES, POLE BEGINNING 882 FT FROM DER, 154 FT LEFT OF CENTERLINE, UP TO 59 FT AGL/400 FT MSL.
TREES BEGINNING 1429 FT FROM DER, 47 FT LEFT OF CENTERLINE, UP TO 70 FT AGL/412 FT MSL.
TREE 1875 FT FROM DER, 421 FT RIGHT OF CENTERLINE, 75 FT AGL/418 FT MSL.
TREES BEGINNING 1951 FT FROM DER, 40 FT RIGHT OF CENTERLINE, UP TO 86 FT AGL/430 FT MSL.
TREES BEGINNING 2065 FT FROM DER, 20 FT LEFT OF CENTERLINE, UP TO 73 FT AGL/415 FT MSL.
TREE 2202 FT FROM DER, 906 FT LEFT OF CENTERLINE, 85 FT AGL/424 FT MSL.
TREES BEGINNING 3015 FT FROM DER, 38 FT LEFT OF CENTERLINE, UP TO 95 FT AGL/436 FT MSL.
TREES BEGINNING 3433 FT FROM DER, 543 FT LEFT OF CENTERLINE, UP TO 102 FT AGL/440 FT MSL.

CONTROLLING OBSTACLES:

RWY 12, 30: VISUAL CLIMB AREA OBSTACLE 1187 FT MSL TOWER 431309.30N/0712623.80W.
RWY 12: 789 FT MSL TREE 431151.49N/0712708.34W (CG 310 FT PER NM), 844 FT MSL TREE 431217.72N/0712624.72W (CEIL), 731 FT MSL BUILDING 431158.63N/0712618.78W (VIS), 1708 FT MSL TOWER 431104.29N/0711910.43W (235 FT PER NM CG, CGTA).
1187 FT MSL TOWER 431309.30N/0712623.80W (CG,CGTA,CEIL,VIS).
RWY 17: 606 FT MSL TREE 431028.15N/0712839.84W (CG, CGTA), 618 FT MSL TREE 431018.63N/0712830.24W (CEIL), 595 FT MSL TREE 431010.13N/0712831.07W (VIS).
RWY 30: 935 FT MSL AAO 431355.01N/0713431.31W.

OBSTACLES MANDATING ROUTE DEVELOPMENT:

RWY 12: 1708 FT MSL AAO 4311104.29N/0711910.43W.
RWY 17 717 FT MSL TREE 431042.00N/0712812.00W.
RWY 35: 1124 FT MSL TOWER 431641.00N/0713018.00W.

REMARKS:

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|----------------------------|--|---------------------------|--|
| FLIGHT INSPECTED BY | <i>Digitally signed by</i> DONALD H LANIER Jan 24, 2022 | OFFICE FPO | DATE 01/20/2022 |
| DEVELOPED BY | <i>Digitally signed by</i> DONALD H LANIER Jan 24, 2022 | OFFICE AJV-A431 | DATE 10/07/2021 |
| APPROVED BY | <i>Digitally signed by</i> DONALD H LANIER Jan 24, 2022 | OFFICE AJV-A430 | DATE TITLE MANAGER |

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZBW, BOS APP CON, NH AERO, AMGR

CHANGES - REASONS:

- 1) RWY 12 CHANGED TAKEOFF MINIMUMS FROM STANDARD WITH MINIMUM CLIMB OF 305 FT PER NM TO 1000 OR 1300-2 1/2 FOR CLIMB IN VISUAL CONDITIONS TO 600-3 WITH MINIMUM CLIMB OF 235 FT PER NM TO 2200 OR STANDARD WITH MINIMUM CLIMB OF 310 FT PER NM TO 1500 OR 1300-3 FOR CLIMB IN VISUAL CONDITIONS - NEW SURVEY DATA
- 2) CHANGED RWY 12 DEPARTURE PROCEDURE FROM CLIMB HEADING 121.04 TO 800 THEN CLIMBING RIGHT TURN TO CON VORTAC BEFORE PROCEEDING ON COURSE TO CLIMB HEADING 121.04 TO 1400 BEFORE PROCEEDING ON COURSE - NEW SURVEY DATA
- 3) RWY 30 CHANGED STANDARD WITH MINIMUM CLIMB OF 235 FT PER NM TO 1200 TO STANDARD WITH MINIMUM CLIMB GRADIENT OF 240 FT PER NM TO 1200 - NEW SURVEY DATA.
- 4) UPDATED TAKE-OFF OBSTACLE NOTES - NEW SURVEY DATA.
- 5) VCOA CEILING AND VISIBILITY INCREASED FROM 1300 - 2 1/2 TO 1500 - 3 - NEW SURVEY DATA.
- 6) REMOVED RWY 30 TEXTUAL DEPARTURE PROCEDURE - NOT REQUIRED, NEW SURVEY DATA.
- 7) RWY 35 INITIAL HEADING CHANGED FROM 341 TO 351, CLIMB TO ALTITUDE CHANGED FROM 1200 TO 1300 - NEW SURVEY DATA

QUALITY
24
CHECKED