

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation 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.

City, State	Airport	Effective Date	Amdt. No.
BEVERLY, MA	BEVERLY MUNI	21 JULY 2016	3A

TAKEOFF MINIMUMS:

RWY 9, 16, 27, 34 STANDARD

TEXTUAL DEPARTURE PROCEDURES:

RWY 27 – CLIMB HEADING 270.28 TO 700 BEFORE TURNING LEFT.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 9, BUSH 15 FT FROM DER, 407 FT RIGHT OF CENTERLINE, 55 FT AGL/119 FT MSL. BUSH BEGINNING 76 FT FROM DER, 377 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/120 FT MSL. TREE 127 FT FROM DER, 247 FT LEFT OF CENTERLINE, 29 FT AGL/112 FT MSL. BUSH BEGINNING 135 FT FROM DER, 248 FT LEFT OF CENTERLINE, UP TO 27 FT AGL/103 FT MSL. BUSH 228 FT FROM DER, 532 FT LEFT OF CENTERLINE, 59 FT AGL/125 FT MSL. BUSH 273 FT FROM DER, 515 FT LEFT OF CENTERLINE, 73 FT AGL/138 FT MSL. TREES BEGINNING 303 FT FROM DER, 227 FT RIGHT OF CENTERLINE, UP TO 19 FT AGL/106 FT MSL. BUSH BEGINNING 390 FT FROM DER, 113 FT RIGHT OF CENTERLINE, UP TO 23 FT AGL/104 FT MSL. TREE 520 FT FROM DER, 342 FT LEFT OF CENTERLINE, 77 FT AGL/138 FT MSL. BUSH BEGINNING 552 FT FROM DER, 22 FT RIGHT OF CENTERLINE, UP TO 45 FT AGL/108 FT MSL. TREE 997 FT FROM DER, 394 FT RIGHT OF CENTERLINE, 84 FT AGL/133 FT MSL. BUSH 1046 FT FROM DER, 141 FT LEFT OF CENTERLINE, 81 FT AGL/130 FT MSL. TREE 1064 FT FROM DER, 539 FT RIGHT OF CENTERLINE, 86 FT AGL/134 FT MSL. TREE 1070 FT FROM DER, 619 FT LEFT OF CENTERLINE, 90 FT AGL/149 FT MSL. BUSH BEGINNING 1077 FT FROM DER, 43 FT RIGHT OF CENTERLINE, UP TO 84 FT AGL/138 FT MSL. TREE 1176 FT FROM DER, 414 FT LEFT OF CENTERLINE, 99 FT AGL/155 FT MSL. BUSH BEGINNING 1184 FT FROM DER, 252 FT LEFT OF CENTERLINE, UP TO 76 FT AGL/130 FT MSL. TREE 1204 FT FROM DER, 385 FT RIGHT OF CENTERLINE, 78 FT AGL/126 FT MSL. BUSH BEGINNING 1301 FT FROM DER, 61 FT LEFT OF CENTERLINE, UP TO 81 FT AGL/131 FT MSL. BUSH 2414 FT FROM DER, 1027 FT LEFT OF CENTERLINE, 94 FT AGL/188 FT MSL. BUSH BEGINNING 2438 FT FROM DER, 822 FT LEFT OF CENTERLINE, UP TO 106 FT AGL/197 FT MSL. TREES BEGINNING 2538 FT FROM DER, 633 FT LEFT OF CENTERLINE, UP TO 93 FT AGL/189 FT MSL. BUSH 2566 FT FROM DER, 647 FT LEFT OF CENTERLINE, 103 FT AGL/207 FT MSL. BUSH BEGINNING 2598 FT FROM DER, 545 FT LEFT OF CENTERLINE, UP TO 85 FT AGL/212 FT MSL. TREE 2661 FT FROM DER, 695 FT LEFT OF CENTERLINE, 112 FT AGL/228 FT MSL. TREE 2662 FT FROM DER, 787 FT LEFT OF CENTERLINE, 113 FT AGL/232 FT MSL. BUSH BEGINNING 2678 FT FROM DER, 226 FT LEFT OF CENTERLINE, UP TO 116 FT AGL/236 FT MSL. TREE 2797 FT FROM DER, 543 FT LEFT OF CENTERLINE, 99 FT AGL/227 FT MSL. BUSH 2799 FT FROM DER, 330 FT RIGHT OF CENTERLINE, 106 FT AGL/182 FT MSL. TREE 2847 FT FROM DER, 141 FT LEFT OF CENTERLINE, 101 FT AGL/214 FT MSL. BUSH BEGINNING 2851 FT FROM DER, 23 FT LEFT OF CENTERLINE, UP TO 83 FT AGL/223 FT MSL. TREE BEGINNING 2886 FT FROM DER, 70 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/193 FT MSL. BUSH 2927 FT FROM DER, 259 FT RIGHT OF CENTERLINE, 101 FT AGL/195 FT MSL. TREES BEGINNING 2930 FT FROM DER, 74 FT LEFT OF CENTERLINE, UP TO 101 FT AGL/214 FT MSL. BUSH BEGINNING 2936 FT FROM DER, 66 FT RIGHT OF CENTERLINE, UP TO 91 FT AGL/201 FT MSL. TREE 2999 FT FROM DER, 464 FT RIGHT OF CENTERLINE, 101 FT AGL/180 FT MSL. BUSH 3009 FT FROM DER, 235 FT LEFT OF CENTERLINE, 63 FT AGL/181 FT MSL. TREE 3043 FT FROM DER, 537 FT RIGHT OF CENTERLINE, 101 FT AGL/175 FT MSL. BUSH BEGINNING 3047 FT FROM DER, 35 FT LEFT OF CENTERLINE, UP TO 64 FT AGL/180 FT MSL.

NOTE: RWY 16, , GRD 15 FT FROM DER, 417 FT LEFT OF CENTERLINE, 87 FT MSL. RWY SIGN 17 FT FROM DER, 198 FT LEFT OF CENTERLINE, 3 FT AGL/85 FT MSL. NT RWY LT 28 FT FROM DER, 82 FT LEFT OF CENTERLINE, 2 FT AGL/83 FT MSL. GRD 100 FT FROM DER, 426 FT RIGHT OF CENTERLINE, 89 FT MSL. BUSH BEGINNING 113 FT FROM DER, 228 FT RIGHT OF CENTERLINE, UP TO 27 FT AGL/125 FT MSL. BUSH BEGINNING 212 FT FROM DER, 454 FT RIGHT OF CENTERLINE, UP TO 72 FT AGL/136 FT MSL. BUSH BEGINNING 247 FT FROM DER, 451 FT RIGHT OF CENTERLINE, UP TO 78 FT AGL/139 FT MSL. BUSH 268 FT FROM DER, 442 FT LEFT OF CENTERLINE, 70 FT AGL/133 FT MSL. VEHICLE IN PARKING LOT 289 FT FROM DER, 520 FT RIGHT OF CENTERLINE, 115 FT MSL. TREES BEGINNING 306 FT FROM DER, 263 FT RIGHT OF CENTERLINE, UP TO 91 FT AGL/148 FT MSL. BUSH 312 FT FROM DER, 463 FT LEFT OF CENTERLINE, 93 FT AGL/150 FT MSL. TREES BEGINNING 322 FT FROM DER, 319 FT LEFT OF CENTERLINE, UP TO 88 FT AGL/145 FT MSL. BUSH BEGINNING 378 FT FROM DER, 107 FT RIGHT OF CENTERLINE, UP TO 76 FT AGL/135 FT MSL. BLDG BEGINNING 481 FT FROM DER, 616 FT RIGHT OF CENTERLINE, UP TO 43 FT AGL/164 FT MSL. BLDG 499 FT FROM DER, 482 FT RIGHT OF CENTERLINE, 42 FT AGL/165 FT MSL. BLDG 511 FT FROM DER, 619 FT RIGHT OF CENTERLINE, 41 FT AGL/164 FT MSL. VEHICLE IN PARKING LOT 515 FT FROM DER, 444 FT RIGHT OF CENTERLINE, 120 FT MSL. BUSH 531 FT FROM DER, 561 FT LEFT OF CENTERLINE, 79 FT AGL/132 FT MSL. BLDG BEGINNING 543 FT FROM DER, 488 FT RIGHT OF CENTERLINE, UP TO 44 FT AGL/168 FT MSL. GRD 574 FT FROM DER, 401 FT RIGHT OF CENTERLINE, 115 FT MSL. BUSH 576 FT FROM DER, 618 FT LEFT OF CENTERLINE, 70 FT AGL/119 FT MSL. BLDG 609 FT FROM DER, 509 FT RIGHT OF CENTERLINE, 45 FT AGL/168 FT MSL. BUSH BEGINNING 622 FT FROM DER, 345 FT LEFT OF CENTERLINE, UP TO 68 FT AGL/131 FT MSL. VEHICLE IN PARKING LOT 667 FT FROM DER, 673 FT RIGHT OF CENTERLINE, 130 FT MSL. GROUND 669 FT FROM DER, 482 FT RIGHT OF CENTERLINE, 130 FT MSL. VEHICLE IN PARKING LOT 679 FT FROM DER, 456 FT RIGHT OF CENTERLINE, 127 FT MSL. BUSH 692 FT FROM DER, 422 FT LEFT OF CENTERLINE, 76 FT AGL/132 FT MSL. BLDG 698 FT FROM DER, 655 FT RIGHT OF CENTERLINE, 30 FT AGL/160 FT MSL. POLE 723 FT FROM DER, 403 FT RIGHT OF CENTERLINE, 43 FT AGL/159 FT MSL. BUSH 744 FT FROM DER, 404 FT LEFT OF CENTERLINE, 77 FT AGL/132 FT MSL. BLDG BEGINNING 758 FT FROM DER, 515 FT RIGHT OF CENTERLINE, UP TO 37 FT AGL/164 FT MSL. BLDG BEGINNING 857 FT FROM DER, 406 FT RIGHT OF CENTERLINE, UP TO 33 FT AGL/179 FT MSL. STACK 891 FT FROM DER, 517 FT RIGHT OF CENTERLINE, 33 FT AGL/168 FT MSL. TREE 894 FT FROM DER, 368 FT RIGHT OF CENTERLINE, 31 FT AGL/150 FT MSL. BUSH 903 FT FROM DER, 496 FT LEFT OF CENTERLINE, 65 FT AGL/121 FT MSL. GRD 908 FT FROM DER, 353 FT RIGHT OF CENTERLINE, 118 FT MSL. VEHICLE IN PARKING LOT 918 FT FROM DER, 524 FT RIGHT OF CENTERLINE, 128 FT MSL. BUSH BEGINNING 938 FT FROM DER, 264 FT LEFT OF CENTERLINE, UP TO 53 FT AGL/109 FT MSL. VEHICLE IN

QUALITY
3
CHECKED

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PARKING LOT 994 FT FROM DER, 588 FT RIGHT OF CENTERLINE, 129 FT MSL. GRD BEGINNING 1008 FT FROM DER, 490 FT RIGHT OF CENTERLINE, UP TO 128 FT MSL. BUSH 1084 FT FROM DER, 173 FT RIGHT OF CENTERLINE, 26 FT AGL/111 FT MSL. POLE 1086 FT FROM DER, 434 FT RIGHT OF CENTERLINE, 28 FT AGL/162 FT MSL. GRD 1116 FT FROM DER, 710 FT RIGHT OF CENTERLINE, 126 FT MSL. BLDG 1123 FT FROM DER, 604 FT RIGHT OF CENTERLINE, 36 FT AGL/167 FT MSL. BUSH BEGINNING 1144 FT FROM DER, 164 FT RIGHT OF CENTERLINE, UP TO 17 FT AGL/145 FT MSL. GRD BEGINNING 1200 FT FROM DER, 280 FT RIGHT OF CENTERLINE, UP TO 129 FT MSL. BUSH BEGINNING 1253 FT FROM DER, 183 FT LEFT OF CENTERLINE, UP TO 19 FT AGL/146 FT MSL. POLE 1407 FT FROM DER, 480 FT RIGHT OF CENTERLINE, 16 FT AGL/149 FT MSL. GRD 1414 FT FROM DER, 597 FT RIGHT OF CENTERLINE, 126 FT MSL. TRAIL BEGINNING 1438 FT FROM DER, 333 FT RIGHT OF CENTERLINE, UP TO 135 FT MSL. BUSH BEGINNING 1484 FT FROM DER, 281 FT RIGHT OF CENTERLINE, UP TO 52 FT AGL/184 FT MSL. GRD BEGINNING 1553 FT FROM DER, 429 FT RIGHT OF CENTERLINE, UP TO 124 FT MSL. BUSH BEGINNING 1643 FT FROM DER, 243 FT RIGHT OF CENTERLINE, UP TO 76 FT AGL/126 FT MSL. BUSH BEGINNING 1702 FT FROM DER, 587 FT RIGHT OF CENTERLINE, UP TO 57 FT AGL/192 FT MSL. TREE 1711 FT FROM DER, 692 FT RIGHT OF CENTERLINE, 73 FT AGL/193 FT MSL. BUSH 1732 FT FROM DER, 721 FT LEFT OF CENTERLINE, 75 FT AGL/126 FT MSL. GRD BEGINNING 1763 FT FROM DER, 448 FT RIGHT OF CENTERLINE, UP TO 137 FT MSL. BUSH BEGINNING 1776 FT FROM DER, 305 FT RIGHT OF CENTERLINE, UP TO 5 FT AGL/132 FT MSL. LT POLE 1821 FT FROM DER, 192 FT RIGHT OF CENTERLINE, 31 FT AGL/139 FT MSL. BUSH BEGINNING 1898 FT FROM DER, 92 FT RIGHT OF CENTERLINE, UP TO 30 FT AGL/138 FT MSL. LT POLE BEGINNING 1949 FT FROM DER, 65 FT RIGHT OF CENTERLINE, UP TO 31 FT AGL/139 FT MSL. BLDG 2021 FT FROM DER, 427 FT RIGHT OF CENTERLINE, 24 FT AGL/133 FT MSL. LT POLE, BEGINNING 2036 FT FROM DER, 44 FT LEFT OF CENTERLINE, UP TO 31 FT AGL/139 FT MSL. BLDG 2098 FT FROM DER, 381 FT RIGHT OF CENTERLINE, 39 FT AGL/148 FT MSL. LT POLE 2129 FT FROM DER, 8 FT LEFT OF CENTERLINE, 31 FT AGL/136 FT MSL. BLDG BEGINNING 2182 FT FROM DER, 241 FT RIGHT OF CENTERLINE, UP TO 42 FT AGL/151 FT MSL. SMOKE STK 2497 FT FROM DER, 356 FT RIGHT OF CENTERLINE, 53 FT AGL/162 FT MSL. BLDG BEGINNING 2533 FT FROM DER, 354 FT RIGHT OF CENTERLINE, UP TO 58 FT AGL/165 FT MSL. BUSH BEGINNING 2860 FT FROM DER, 613 FT RIGHT OF CENTERLINE, UP TO 61 FT AGL/162 FT MSL. BLDG BEGINNING 2909 FT FROM DER, 973 FT RIGHT OF CENTERLINE, UP TO 56 FT AGL/156 FT MSL. BUSH BEGINNING 3293 FT FROM DER, 1086 FT RIGHT OF CENTERLINE, UP TO 72 FT AGL/166 FT MSL.

NOTE: RWY 27, BUSH 44 FT FROM DER, 439 FT LEFT OF CENTERLINE, 26 FT AGL/82 FT MSL. TREES BEGINNING 182 FT FROM DER, 229 FT LEFT OF CENTERLINE, UP TO 16 FT AGL/81 FT MSL. BUSH 214 FT FROM DER, 463 FT LEFT OF CENTERLINE, 49 FT AGL/98 FT MSL. TREE 243 FT FROM DER, 318 FT RIGHT OF CENTERLINE, 15 FT AGL/83 FT MSL. BUSHES BEGINNING 279 FT FROM DER, 270 FT LEFT OF CENTERLINE, UP TO 31 FT AGL/92 FT MSL. TREE 419 FT FROM DER, 119 FT LEFT OF CENTERLINE, 43 FT AGL/92 FT MSL. BUSH 455 FT FROM DER, 463 FT LEFT OF CENTERLINE, 62 FT AGL/100 FT MSL. TREES BEGINNING 456 FT FROM DER, 109 FT RIGHT OF CENTERLINE, UP TO 55 FT AGL/99 FT MSL. BUSHES BEGINNING 500 FT FROM DER, 46 FT RIGHT OF CENTERLINE, UP TO 53 FT AGL/96 FT MSL. TREES BEGINNING 535 FT FROM DER, 249 FT RIGHT OF CENTERLINE, UP TO 62 FT AGL/110 FT MSL. BUSHES BEGINNING 547 FT FROM DER, 26 FT RIGHT OF CENTERLINE, UP TO 56 FT AGL/92 FT MSL. TREE 1170 FT FROM DER, 587 FT LEFT OF CENTERLINE, 82 FT AGL/111 FT MSL. BUSHES BEGINNING 1202 FT FROM DER, 248 FT LEFT OF CENTERLINE, UP TO 85 FT AGL/114 FT MSL. BUSHES 2376 FT FROM DER, 653 FT RIGHT OF CENTERLINE, 85 FT AGL/136 FT MSL. BUSH BEGINNING 2394 FT FROM DER, 451 FT RIGHT OF CENTERLINE, UP TO 86 FT AGL/137 FT MSL. BUSH BEGINNING 2563 FT FROM DER, 1037 FT RIGHT OF CENTERLINE, UP TO 85 FT AGL/140 FT MSL. BUSH BEGINNING 2953 FT FROM DER, 958 FT RIGHT OF CENTERLINE, UP TO 82 FT AGL/168 FT MSL. TREE BEGINNING 3041 FT FROM DER, 762 FT RIGHT OF CENTERLINE, UP TO 103 FT AGL/160 FT MSL. BUSH BEGINNING 3194 FT FROM DER, 1165 FT RIGHT OF CENTERLINE, UP TO 91 FT AGL/190 FT MSL. TREE 3232 FT FROM DER, 723 FT RIGHT OF CENTERLINE, 97 FT AGL/157 FT MSL. BUSH BEGINNING 3321 FT FROM DER, 1083 FT RIGHT OF CENTERLINE, UP TO 89 FT AGL/185 FT MSL. BUSHES BEGINNING 4347 FT FROM DER, 954 FT LEFT OF CENTERLINE, UP TO 82 FT AGL/201 FT MSL. BUSHES 4628 FT FROM DER, 1523 FT LEFT OF CENTERLINE, 86 FT AGL/202 FT MSL. BUSHES BEGINNING 4659 FT FROM DER, 924 FT LEFT OF CENTERLINE, UP TO 82 FT AGL/208 FT MSL. BLDGS BEGINNING 5490 FT FROM DER, 530 FT LEFT OF CENTERLINE, UP TO 108 FT AGL/217 FT MSL.

NOTE: RWY 34, NT MALS 11 FT FROM DER, ON CENTERLINE, 2 FT AGL/109 FT MSL. BUSH 41 FT FROM DER, 270 FT RIGHT OF CENTERLINE, 18 FT AGL/119 FT MSL. BUSH BEGINNING 108 FT FROM DER, 399 FT RIGHT OF CENTERLINE, UP TO 41 FT AGL/128 FT MSL. BUSH 276 FT FROM DER, 518 FT RIGHT OF CENTERLINE, 66 FT AGL/145 FT MSL. BUSH 405 FT FROM DER, 452 FT RIGHT OF CENTERLINE, 68 FT AGL/148 FT MSL. TREE 431 FT FROM DER, 580 FT LEFT OF CENTERLINE, 58 FT AGL/152 FT MSL. TREE 460 FT FROM DER, 582 FT LEFT OF CENTERLINE, 63 FT AGL/156 FT MSL. BUSH BEGINNING 461 FT FROM DER, 526 FT LEFT OF CENTERLINE, UP TO 63 FT AGL/154 FT MSL. TREE 695 FT FROM DER, 338 FT LEFT OF CENTERLINE, 40 FT AGL/142 FT MSL. BUSH BEGINNING 698 FT FROM DER, 282 FT LEFT OF CENTERLINE, UP TO 50 FT AGL/153 FT MSL. TREE 905 FT FROM DER, 222 FT LEFT OF CENTERLINE, 39 FT AGL/141 FT MSL. BUSH BEGINNING 940 FT FROM DER, 214 FT LEFT OF CENTERLINE, UP TO 34 FT AGL/135 FT MSL. TREE 1032 FT FROM DER, 700 FT RIGHT OF CENTERLINE, 86 FT AGL/174 FT MSL. BUSH BEGINNING 1034 FT FROM DER, 89 FT RIGHT OF CENTERLINE, UP TO 91 FT AGL/173 FT MSL. BUSH BEGINNING 1238 FT FROM DER, 300 FT RIGHT OF CENTERLINE, UP TO 96 FT AGL/182 FT MSL. POLE, BEGINNING 1309 FT FROM DER, 1 FT RIGHT OF CENTERLINE, UP TO 9 FT AGL/158 FT MSL. TREE 1622 FT FROM DER, 214 FT RIGHT OF CENTERLINE, 78 FT AGL/167 FT MSL. BUSH BEGINNING 1662 FT FROM DER, 458 FT RIGHT OF CENTERLINE, UP TO 81 FT AGL/153 FT MSL. TREE 1682 FT FROM DER, 499 FT LEFT OF CENTERLINE, 80 FT AGL/165 FT MSL. BUSH BEGINNING 1686 FT FROM DER, 50 FT LEFT OF CENTERLINE, UP TO 71 FT AGL/166 FT MSL. TREE 1911 FT FROM DER, 427 FT LEFT OF CENTERLINE, 79 FT AGL/164 FT MSL. BUSH BEGINNING 1923 FT FROM DER, 22 FT LEFT OF CENTERLINE, UP TO 83 FT AGL/160 FT MSL.

CONTROLLING OBSTACLES:

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 27: 686 FT MSL TOWER 423153.72N/0705910.41W



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BEVERLY, MA	BEVERLY MUNI	21 JULY 2016	3A

REMARKS:

Digitally signed by
FLIGHT INSPECTED BY: DONALD H LANIER

REQUIRED EFFECTIVE DATE:

DOUG MILLER
Apr 26, 2016
FICO

04/20/2016

ROUTINE

DEVELOPED BY: *Digitally signed by*
HOWARD L HAWKINS
HOWARD L HAWKINS JR, AJV 5413
Mar 07, 2016

02/22/2016

APPROVED BY:

MARLON ROBINSON
Digitally signed by AJV 5410
DONALD H LANIER

COORDINATED WITH: Apr 26, 2016

ALPA, AOPA, APA, ATA, NBAA, ZBW, BOS APP CON, BVY ATCT, ARPT MGR

CHANGES:

TAKEOFF OBSTACLES UPDATED.

REASONS:

NEW EVALUATION.

