

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

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>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
SPARKS	ONE	SPRKS1.FMG	NONE		12/29/2022

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DP ROUTE DESCRIPTION:

TAKEOFF RWY 17L: CLIMB ON HEADING 167.12 TO 6600, THEN CLIMBING LEFT TURN HEADING 045.00 TO INTERCEPT FMG VORTAC R-180 TO FMG VORTAC, CONTINUE CLIMB IN FMG VORTAC HOLDING PATTERN TO CROSS FMG VORTAC AT OR ABOVE MEA/MCA FOR ROUTE OF FLIGHT.
 TAKEOFF RWY 17R: CLIMB ON HEADING 167.11 TO 6600, THEN CLIMBING LEFT TURN HEADING 045.00 TO INTERCEPT FMG VORTAC R-180 TO FMG VORTAC, CONTINUE CLIMB IN FMG VORTAC HOLDING PATTERN TO CROSS FMG VORTAC AT OR ABOVE MEA/MCA FOR ROUTE OF FLIGHT.
 TAKEOFF RWY 26: CLIMB ON HEADING 257.24 TO 5000, THEN CLIMBING RIGHT TURN DIRECT FMG VORTAC, CONTINUE CLIMB IN FMG VORTAC HOLDING PATTERN TO CROSS FMG VORTAC AT OR ABOVE MEA/MCA FOR ROUTE OF FLIGHT.
 TAKEOFF RWY 35L: CLIMB ON HEADING 347.11 TO 6800, THEN CLIMBING RIGHT TURN HEADING 100.00 TO INTERCEPT FMG VORTAC R-320 TO FMG VORTAC, CONTINUE CLIMB IN FMG VORTAC HOLDING PATTERN TO CROSS FMG VORTAC AT OR ABOVE MEA/MCA FOR ROUTE OF FLIGHT.
 TAKEOFF RWY 35R: CLIMB ON HEADING 347.12 TO 6800, THEN CLIMBING RIGHT TURN HEADING 100.00 TO INTERCEPT FMG VORTAC R-320 TO FMG VORTAC, CONTINUE CLIMB IN FMG VORTAC HOLDING PATTERN TO CROSS FMG VORTAC AT OR ABOVE MEA/MCA FOR ROUTE OF FLIGHT.

VISUAL CLIMB OVER AIRPORT:

ALL RUNWAYS: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS JUPGU (FMG R-234/5.00 DME) AT OR ABOVE 7500 ON FMG R-234 TO FMG VORTAC, THEN CONTINUE CLIMB IN FMG VORTAC HOLDING PATTERN TO CROSS FMG VORTAC AT OR ABOVE MEA/MCA FOR ROUTE OF FLIGHT.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>

PROCEDURAL DATA NOTES:

PBN REQUIREMENTS NOTES:

EQUIPMENT REQUIREMENT NOTES:

TAKEOFF MINIMUMS:

RWY 8: NA - TERRAIN.
 RWY 17L: 600 - 1 3/8 WITH MINIMUM CLIMB OF 415 FT PER NM TO 8700 OR STANDARD WITH MINIMUM CLIMB OF 745 FT PER NM TO 7200, OR 3200-3 FOR VCOA.
 RWY 17R: STANDARD WITH MINIMUM CLIMB OF 420 FT PER NM TO 8700, OR 3200-3 FOR VCOA.
 RWY 26: STANDARD WITH MINIMUM CLIMB OF 485 FT PER NM TO 7900, OR 3200-3 FOR VCOA.
 RWY 35L: STANDARD WITH MINIMUM CLIMB OF 375 FT PER NM TO 8600, OR 3200-3 FOR VCOA.
 RWY 35R: 400-1 1/2 WITH A MINIMUM CLIMB OF 270 FT PER NM TO 8600 OR STANDARD WITH A MINIMUM CLIMB OF 420 FT PER NM TO 7400, OR 3200-3 FOR VCOA.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 17L: BUILDING 78 FT FROM DER, 262 FT LEFT OF CENTERLINE, 8 FT AGL/4413 FT MSL.
 ANTENNA 130 FT FROM DER, 379 FT RIGHT OF CENTERLINE, 41 FT AGL/4444 FT MSL.
 TREE 719 FT FROM DER, 555 FT LEFT OF CENTERLINE, 4434 FT MSL.
 TREE 1055 FT FROM DER, 132 FT LEFT OF CENTERLINE, 4435 FT MSL.
 POLE 1108 FT FROM DER, 487 FT LEFT OF CENTERLINE, 34 FT AGL/4445 FT MSL.



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SPARKS	ONE	SPRKS1.FMG	NONE		12/29/2022

POLE, BUILDING BEGINNING 1331 FT FROM DER, 458 FT LEFT OF CENTERLINE, UP TO 34 FT AGL/4446 FT MSL.
 POLE 1428 FT FROM DER, 229 FT LEFT OF CENTERLINE, 36 FT AGL/4449 FT MSL.
 TREE 1843 FT FROM DER, 132 FT LEFT OF CENTERLINE, 4456 FT MSL.
 TREE 1879 FT FROM DER, 126 FT LEFT OF CENTERLINE, 4466 FT MSL.
 TOWER 2389 FT FROM DER, 975 FT LEFT OF CENTERLINE, 55 FT AGL/4469 FT MSL.
 TOWER 2747 FT FROM DER, 853 FT LEFT OF CENTERLINE, 66 FT AGL/4482 FT MSL.
 TERRAIN 4845 FT FROM DER, 1693 FT LEFT OF CENTERLINE, 4546 FT MSL.
 TERRAIN 5161 FT FROM DER, 1451 FT LEFT OF CENTERLINE, 4547 FT MSL.
 TERRAIN BEGINNING 5253 FT FROM DER, 1698 FT LEFT OF CENTERLINE, UP TO 4776 FT MSL.
 TERRAIN 5470 FT FROM DER, 1838 FT LEFT OF CENTERLINE, 4846 FT MSL.
 TERRAIN BEGINNING 5524 FT FROM DER, 1371 FT LEFT OF CENTERLINE, UP TO 4919 FT MSL.
 TERRAIN BEGINNING 5702 FT FROM DER, 1691 FT LEFT OF CENTERLINE, UP TO 4926 FT MSL.
 TERRAIN BEGINNING 5874 FT FROM DER, 1768 FT LEFT OF CENTERLINE, UP TO 4953 FT MSL.
 TERRAIN 1.0 NM FROM DER, 1981 FT LEFT OF CENTERLINE, 4837 FT MSL.

NOTE: RWY 17R: LIGHTING 10 FT FROM DER, 85 FT LEFT OF CENTERLINE, 1 FT AGL/4415 FT MSL.
 LIGHTING 10 FT FROM DER, 85 FT RIGHT OF CENTERLINE, 1 FT AGL/4415 FT MSL.
 TREE 746 FT FROM DER, 379 FT LEFT OF CENTERLINE, 4435 FT MSL.
 TREES BEGINNING 1156 FT FROM DER, 772 FT LEFT OF CENTERLINE, UP TO 4456 FT MSL.
 TREE 1306 FT FROM DER, 840 FT LEFT OF CENTERLINE, 4457 FT MSL.
 TREES BEGINNING 1409 FT FROM DER, 818 FT LEFT OF CENTERLINE, UP TO 4466 FT MSL.
 TREES BEGINNING 1593 FT FROM DER, 658 FT LEFT OF CENTERLINE, UP TO 4474 FT MSL.
 TREE 1873 FT FROM DER, 936 FT LEFT OF CENTERLINE, 4475 FT MSL.
 TREE 2164 FT FROM DER, 653 FT LEFT OF CENTERLINE, 4478 FT MSL.
 TREES BEGINNING 2783 FT FROM DER, 172 FT RIGHT OF CENTERLINE, UP TO 4501 FT MSL.
 TREE 3135 FT FROM DER, 590 FT RIGHT OF CENTERLINE, 4507 FT MSL.
 TREE 3285 FT FROM DER, 504 FT RIGHT OF CENTERLINE, 4510 FT MSL.

NOTE: RWY 26: LIGHTING 9 FT FROM DER, 54 FT LEFT OF CENTERLINE, 1 FT AGL/4410 FT MSL.
 LIGHTING 10 FT FROM DER, 54 FT RIGHT OF CENTERLINE, 1 FT AGL/4410 FT MSL.
 POLE 119 FT FROM DER, 464 FT LEFT OF CENTERLINE, 32 FT AGL/4440 FT MSL.
 POLE, TRANSMISSION LINE, FENCE BEGINNING 142 FT FROM DER, 270 FT RIGHT OF CENTERLINE, UP TO 30 FT AGL/4438 FT MSL.
 POLE 499 FT FROM DER, 466 FT LEFT OF CENTERLINE, 39 FT AGL/4452 FT MSL.
 POLE 1274 FT FROM DER, 469 FT LEFT OF CENTERLINE, 39 FT AGL/4458 FT MSL.
 POLE 1369 FT FROM DER, 387 FT RIGHT OF CENTERLINE, 27 FT AGL/4447 FT MSL.
 SIGN 1501 FT FROM DER, 206 FT RIGHT OF CENTERLINE, 30 FT AGL/4448 FT MSL.
 TREE 1618 FT FROM DER, 42 FT RIGHT OF CENTERLINE, 4473 FT MSL.
 SIGNS, TREES BEGINNING 1656 FT FROM DER, 66 FT LEFT OF CENTERLINE, UP TO 59 FT AGL/4482 FT MSL.
 TREE 1663 FT FROM DER, 15 FT RIGHT OF CENTERLINE, 4475 FT MSL.
 TREES BEGINNING 1664 FT FROM DER, 16 FT RIGHT OF CENTERLINE, UP TO 4484 FT MSL.
 TREE 1878 FT FROM DER, 28 FT LEFT OF CENTERLINE, 4483 FT MSL.
 TREES BEGINNING 1913 FT FROM DER, 162 FT LEFT OF CENTERLINE, UP TO 4484 FT MSL.
 TREES BEGINNING 1916 FT FROM DER, 20 FT LEFT OF CENTERLINE, UP TO 4487 FT MSL.
 TREES BEGINNING 2053 FT FROM DER, 25 FT LEFT OF CENTERLINE, UP TO 4497 FT MSL.
 TREE 2099 FT FROM DER, 206 FT RIGHT OF CENTERLINE, 4490 FT MSL.
 TREES BEGINNING 2102 FT FROM DER, 12 FT RIGHT OF CENTERLINE, UP TO 4493 FT MSL.
 TREES BEGINNING 2255 FT FROM DER, 45 FT RIGHT OF CENTERLINE, UP TO 4500 FT MSL.
 TREES BEGINNING 2268 FT FROM DER, 5 FT LEFT OF CENTERLINE, UP TO 4506 FT MSL.
 POLE, TREE BEGINNING 2635 FT FROM DER, 114 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/4527 FT MSL.
 ANTENNA 3413 FT FROM DER, 298 FT LEFT OF CENTERLINE, 80 FT AGL/4514 FT MSL.

NOTE: RWY 35L: LIGHTING 10 FT FROM DER, 85 FT LEFT OF CENTERLINE, 2 FT AGL/4416 FT MSL.
 LIGHTING 10 FT FROM DER, 86 FT RIGHT OF CENTERLINE, 2 FT AGL/4416 FT MSL.
 SIGN 40 FT FROM DER, 437 FT RIGHT OF CENTERLINE, 4 FT AGL/4417 FT MSL.
 LIGHTING 999 FT FROM DER, ON CENTERLINE, 22 FT AGL/4440 FT MSL.



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SPARKS	ONE	SPRKS1.FMG	NONE		12/29/2022

ANTENNA 1029 FT FROM DER, 49 FT LEFT OF CENTERLINE, 22 FT AGL/4441 FT MSL.
ANTENNA 1029 FT FROM DER, 49 FT RIGHT OF CENTERLINE, 23 FT AGL/4441 FT MSL.
POLE 1176 FT FROM DER, 629 FT RIGHT OF CENTERLINE, 32 FT AGL/4451 FT MSL.
TREE 1193 FT FROM DER, 400 FT LEFT OF CENTERLINE, 4454 FT MSL.
TREES BEGINNING 1216 FT FROM DER, 227 FT LEFT OF CENTERLINE, UP TO 4476 FT MSL.
TREE 1229 FT FROM DER, 349 FT RIGHT OF CENTERLINE, 4458 FT MSL.
TREES BEGINNING 1267 FT FROM DER, 207 FT RIGHT OF CENTERLINE, UP TO 4465 FT MSL.
TREE 1974 FT FROM DER, 898 FT RIGHT OF CENTERLINE, 4469 FT MSL.
TREE 2326 FT FROM DER, 938 FT RIGHT OF CENTERLINE, 4473 FT MSL.
TREE 2350 FT FROM DER, 885 FT RIGHT OF CENTERLINE, 4474 FT MSL.
TREES BEGINNING 2489 FT FROM DER, 178 FT RIGHT OF CENTERLINE, UP TO 4493 FT MSL.
TREES, POLES BEGINNING 2528 FT FROM DER, 16 FT RIGHT OF CENTERLINE, UP TO 4498 FT MSL.
TREES BEGINNING 2789 FT FROM DER, 69 FT LEFT OF CENTERLINE, UP TO 4490 FT MSL.
TREES BEGINNING 2877 FT FROM DER, 292 FT LEFT OF CENTERLINE, UP TO 4492 FT MSL.

NOTE: RWY 35R: SIGN 40 FT FROM DER, 262 FT LEFT OF CENTERLINE, 4 FT AGL/4417 FT MSL.
BUILDING 87 FT FROM DER, 272 FT RIGHT OF CENTERLINE, 7 FT AGL/4420 FT MSL.
LIGHTING 999 FT FROM DER, 699 FT LEFT OF CENTERLINE, 22 FT AGL/4440 FT MSL.
ANTENNAS BEGINNING 1028 FT FROM DER, 649 FT LEFT OF CENTERLINE, UP TO 22 FT AGL/4441 FT MSL.
POLES BEGINNING 1066 FT FROM DER, 165 FT RIGHT OF CENTERLINE, UP TO 40 FT AGL/4458 FT MSL.
POLE 1176 FT FROM DER, 70 FT LEFT OF CENTERLINE, 32 FT AGL/4451 FT MSL.
TREE 1229 FT FROM DER, 349 FT LEFT OF CENTERLINE, 4458 FT MSL.
TREE 1267 FT FROM DER, 492 FT LEFT OF CENTERLINE, 4465 FT MSL.
TREES BEGINNING 1711 FT FROM DER, 255 FT RIGHT OF CENTERLINE, UP TO 4466 FT MSL.
TREE 1973 FT FROM DER, 198 FT RIGHT OF CENTERLINE, 4469 FT MSL.
TREES BEGINNING 1991 FT FROM DER, 186 FT RIGHT OF CENTERLINE, UP TO 4491 FT MSL.
TREES, POLE BEGINNING 2489 FT FROM DER, 361 FT RIGHT OF CENTERLINE, UP TO 4493 FT MSL.
TREE 2505 FT FROM DER, 520 FT LEFT OF CENTERLINE, 4480 FT MSL.
TREES, POLE BEGINNING 2528 FT FROM DER, 201 FT LEFT OF CENTERLINE, UP TO 4498 FT MSL.
POLE 2815 FT FROM DER, 531 FT RIGHT OF CENTERLINE, 82 FT AGL/4497 FT MSL.

CONTROLLING OBSTACLES:

RWY 17L: 4953 FT MSL TERRAIN 392822.79N/1194534.55W (745 CLIMB GRADIENT/CEILING), 7020 FT MSL AAO 392435.68N/1193952.23W (7200 CLIMB-TO ALTITUDE), 4777 FT MSL TERRAIN 392818.31N/1194534.45W (VISIBILITY), 7640 FT MSL AAO 391958.37N/1194012.39W (415 CLIMB GRADIENT/8700 CLIMB-TO ALTITUDE).

RWY 17R: 7640 FT MSL AAO 391958.37N/1194012.39W.

RWY 26: 6920 FT MSL AAO 393424.14N/1195337.13W.

RWY 35L: 6060 FT MSL AAO 393725.18N/1194753.30W (CLIMB GRADIENT), 7582 FT MSL AAO 393850.27N/1193447.03W (CLIMB-TO ALTITUDE).

RWY 35R: 4778 FT MSL BUILDING 393159.72N/1194532.97W (CEILING/VISIBILITY/420 CLIMB GRADIENT), 7582 FT MSL AAO 393850.27N/1193447.03W (270 CLIMB GRADIENT/CLIMB-TO ALTITUDE).

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWYS 17L/R, 26, 35L/R : 10941 FT MSL AAO 392036.00N/1195457.00W.

VISUAL CLIMB AREA OBSTACLE: 6500 FT MSL AAO 392755.85N/1195240.76W.

MSA:

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART: HOLDING PATTERN AT FMG VORTAC, HOLD NE, LT, 221.13 INBOUND



DP NAME SPARKS NUMBER ONE DP COMPUTER CODE SPRKS1.FMG SUPERSEDED NUMBER NONE DATED ACTUAL EFFECTIVE DATE 12/29/2022

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KRNO	RENO	NV

COMMUNICATIONS:

FIXES AND/OR NAVAIDS:

REMARKS:

FLIGHT INSPECTED BY

PENDING

Digitally signed by
CASIMIR L TABAKA
Oct 13, 2022

OFFICE

DATE

DEVELOPED BY

CASEY HILL

Digitally signed by
CASIMIR L TABAKA
Oct 13, 2022

OFFICE

DATE

AJV-A432

07/11/2022

APPROVED BY

CASIMIR TABAKA

Digitally signed by
CASIMIR L TABAKA
Oct 13, 2022

OFFICE

DATE

AJV-A430

TITLE
MANAGER

REQUIRED EFFECTIVE DATE

12/29/2022

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:**ZOA, AMGR, RNO ATCT

CHANGES - REASONS:

ORIGINAL PROCEDURE

