

**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SUPERSEDED NUMBER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>
ENNIS	TWO	ENNIS2.ENNIS	ONE	06/02/2014	17 JUN 2021

<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 checked="" type="checkbox"/>

DP ROUTE DESCRIPTION:

TAKEOFF RWY 16: CLIMB ON HEADING 164.61 TO 5933, THEN CLIMBING RIGHT TURNING TO 8800 DIRECT SPHNX, THENCE...

TAKEOFF RWY 34: CLIMB ON HEADING 344.61 TO 5933, THEN DIRECT SPHNX, THENCE...

...THEN ON TRACK 344.61 TO MDISN, THEN ON TRACK 293.01 TO HIA VOR/DME, THEN ON ASSIGNED ROUTE, EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL 10 MINUTES AFTER DEPARTURE.

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>
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PROCEDURAL DATA NOTES:

NOTE: GPS REQUIRED.

NOTE: RNAV 1.

TAKEOFF MINIMUMS:

RWY 16: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 5933, THEN MINIMUM CLIMB OF 288 FT PER NM TO 8800.

RWY 34: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 5933, THEN MINIMUM CLIMB OF 340 FT PER NM TO 8800.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 16, FENCE, VEGETATION, RIDGES BEGINNING 105 FT FROM DER, 278 FT LEFT OF CENTERLINE, UP TO 5 FT AGL/5358 FT MSL. FENCE, RIDGES, VEGETATION BEGINNING 185 FT FROM DER, 278 FT LEFT OF CENTERLINE, UP TO 5 FT AGL/5359 FT MSL. RIDGE 458 FT FROM DER, 570 FT LEFT OF CENTERLINE, 5362 FT MSL. POWER LINES, BUILDING BEGINNING 678 FT FROM DER, 463 FT LEFT OF CENTERLINE, UP TO 29 FT AGL/5393 FT MSL. POWER LINES, TREE, VEHICLES ON ROAD BEGINNING 971 FT FROM DER, 458 FT LEFT OF CENTERLINE, UP TO 33 FT AGL/5396 FT MSL.

NOTE: RWY 34, RIDGE 71 FT FROM DER, 22 FT LEFT OF CENTERLINE, 5439 FT MSL. RIDGE 71 FT FROM DER, 228 FT RIGHT OF CENTERLINE, 5450 FT MSL. RIDGE 192 FT FROM DER, 493 FT RIGHT OF CENTERLINE, 5463 FT MSL. RIDGES, FENCE BEGINNING 194 FT FROM DER, 6 FT LEFT OF CENTERLINE, UP TO 5442 FT MSL. FENCE, RIDGES BEGINNING 199 FT FROM DER, 88 FT RIGHT OF CENTERLINE, UP TO 5 FT AGL/5465 FT MSL. FENCE BEGINNING 200 FT FROM DER, 27 FT LEFT OF CENTERLINE, UP TO 5 FT AGL/5447 FT MSL. RIDGES, VEGETATION BEGINNING 401 FT FROM DER, 85 FT RIGHT OF CENTERLINE, UP TO 5467 FT MSL. VEGETATION, TERRAIN BEGINNING 531 FT FROM DER, 413 FT RIGHT OF CENTERLINE, UP TO 5471 FT MSL. RIDGES, VEGETATION BEGINNING 575 FT FROM DER, 177 FT RIGHT OF CENTERLINE, UP TO 5472 FT MSL. VEGETATION, TERRAIN BEGINNING 726 FT FROM DER, 70 FT RIGHT OF CENTERLINE, UP TO 5474 FT MSL. RIDGES, VEGETATION BEGINNING 775 FT FROM DER, 82 FT RIGHT OF CENTERLINE, UP TO 5479 FT MSL. RIDGES, VEGETATION BEGINNING 991 FT FROM DER, 257 FT RIGHT OF CENTERLINE, UP TO 5482 FT MSL. TERRAIN, VEGETATION BEGINNING 1177 FT FROM DER, 257 FT RIGHT OF CENTERLINE, UP TO 5484 FT MSL. VEGETATION, RIDGE LINE BEGINNING 1331 FT FROM DER, 267 FT RIGHT OF CENTERLINE, UP TO 5492 FT MSL. RIDGES, VEGETATION BEGINNING 1400 FT FROM DER, 254 FT RIGHT OF CENTERLINE, UP TO 5496 FT MSL. FENCE, RIDGES, VEGETATION BEGINNING 1736 FT FROM DER, 310 FT RIGHT OF CENTERLINE, UP TO 4 FT AGL/5508 FT MSL. RIDGES, VEGETATION BEGINNING 2503 FT FROM DER, 761 FT RIGHT OF CENTERLINE, UP TO 5510 FT MSL. RIDGES BEGINNING 2590 FT FROM DER, 683 FT RIGHT OF CENTERLINE, UP TO 5519 FT MSL. VEGETATION, RIDGES BEGINNING 2740 FT FROM DER, 756 FT RIGHT OF CENTERLINE, UP TO 5522 FT MSL. VEGETATION, RIDGES BEGINNING 2932 FT FROM DER, 873 FT RIGHT OF CENTERLINE, UP TO 5524 FT MSL. RIDGES, VEGETATION BEGINNING 3097 FT FROM DER, 970 FT RIGHT OF CENTERLINE, UP TO 5533 FT MSL. RIDGES, VEGETATION BEGINNING 3578 FT FROM DER, 1045 FT RIGHT OF CENTERLINE, UP TO 5539 FT MSL. RIDGES BEGINNING 3736 FT FROM DER, 1138 FT RIGHT OF CENTERLINE, UP TO 5543 FT MSL. RIDGES BEGINNING 3951 FT FROM DER, 1280 FT RIGHT OF CENTERLINE, UP TO 5546 FT MSL. RIDGES BEGINNING 4064 FT FROM DER, 1447 FT RIGHT OF CENTERLINE, UP TO 5548 FT MSL. RIDGES BEGINNING 4401 FT FROM DER, 1461 FT RIGHT OF CENTERLINE, UP TO 5549 FT MSL. RIDGES 4600 FT FROM DER, 1621 FT RIGHT OF CENTERLINE, 5553 FT MSL. VEHICLES ON ROAD, RIDGES BEGINNING 4765 FT FROM DER, 1620 FT RIGHT OF CENTERLINE, UP TO 5571 FT MSL. RIDGE 5538 FT FROM DER, 1928 FT RIGHT OF CENTERLINE, 5572 FT MSL. RIDGE 5734 FT FROM DER, 2007 FT RIGHT OF CENTERLINE, 5578 FT MSL. TREES BEGINNING 1.1 NM FROM DER, 2014 FT RIGHT OF CENTERLINE, 5615 FT MSL AND 2242 FT RIGHT OF CENTERLINE, UP TO 5628 FT MSL.

QUALITY
24
CHECKED

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
ENNIS	TWO	ENNIS2.ENNIS	ONE	06/02/2014	17 JUN 2021

CONTROLLING OBSTACLES:

RWY 16, 34: 8040 FT MSL AAO 452638.45N/1113631.43W.

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: 11329 MSL AAO 451639.00N/1112703.00W.

LOST COMMUNICATIONS PROCEDURES:**ADDITIONAL FLIGHT DATA:**REFERENCE MAG VAR: EKS 12E, EPOCH YR: 2015
DME/DME ASSESSMENT NOT CONDUCTED.**AIRPORTS SERVED:**

<u>AIRPORT NAME</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
ENNIS-BIG SKY	KEKS	ENNIS	MT

COMMUNICATIONS:

ZLC ARTCC.

FIXES AND/OR NAVAIDS:**REMARKS:**VCOA NOT DEVELOPED IN CONJUNCTION WITH RNAV ODP.
18 FT TREES USED PER FPT.
25 DEGREE BANK ANGLE USED DUE TO TERRAIN.**FLIGHT INSPECTED BY**

BRYAN VEIT

*Digitally signed by***JON DENTON**
Mar 05, 2021**OFFICE**
FICO**DATE**
3/3/2021**DEVELOPED BY**

JON DENTON (GORDON LEMON)

*Digitally signed by***JON DENTON**
Mar 05, 2021**OFFICE**

AJV-A432

DATE

11/30/2020

APPROVED BY

LONNIE EVERHART

*Digitally signed by***JON DENTON**
Mar 05, 2021**OFFICE**

AJV-A430

DATE**TITLE**

MANAGER

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZLC, AMGR.**CHANGES - REASONS:**

1. CHANGED TAKEOFF MINIMUMS FROM "RWY 16, STANDARD WITH A MINIMUM OF 500 FT PER NM TO 5930, THEN MINIMUM CLIMB OF 323 FT PER NM TO 8500. RWY 34, STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 5930, THEN MINIMUM CLIMB OF 304 FT PER NM TO 8500" TO "RWY 16, STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 5933, THEN MINIMUM CLIMB OF 288 FT PER NM TO 8800, RWY 34, STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 5933, THEN MINIMUM CLIMB OF 340 FT PER NM TO 8800", DESCRIBED SEGMENT SPHXX TO MDISN TO HIA VOR/ DME AS COMMON ROUTE FOR RWY 16 AND RWY 34 DEPARTURES - NEW SURVEY AND EVALUATION.
2. UPDATED TAKEOFF OBSTACLES NOTES CONTAINED IN KEKS DP AMENDMENT 1 AND CONTROLLING OBSTACLE - IAW 8260.46G APPENDIX E, SEC 1, PARA 7.
3. CHANGED REMARKS REMOVED OBSTACLE INFO AND CHANGED TREE HEIGHT TO 18FT - NEW EVALUATION, FPT DETERMINATION.
4. CHANGED COMPUTER CODE NUMBER FROM 1 TO 2 - REQUIRED FOR AMENDMENTS
5. CHANGED DP ROUTE DESCRIPTIONS FROM "CLIMB HEADING" TO "CLIMB ON HEADING" - IAW FAAO 8260.46G SECTION 2.

QUALITY
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CHECKED

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
ENNIS		TWO		ENNIS2.ENNIS		ONE		06/02/2014	17 JUN 2021
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
RWY 16 (AER)	451710.05N/1113859.24W	N							
5933 MSL				VA	176.61		AT/ABOVE 5933.00		CG 500 FT PER NM TO 5933, THEN CG 288 FT PER NM TO 8800
SPHNX	451959.86N/1113913.68W	Y	FO	DF					RIGHT TURN
MDISN	453720.62N/1114041.61W	Y	FB	TF	356.61	17.38			
HIA VOR/DME	455142.44N/1121010.59W	Y	FB	TF	305.01	25.15			
RWY 34 (AER)	451555.17N/1113852.96W	N							
5933 MSL				VA	356.61		AT/ABOVE 5933.00		CG 500 FT PER NM TO 5933, THEN CG 340 FT PER NM TO 8800
SPHNX	451959.86N/1113913.68W	Y	FO	DF					
MDISN	453720.62N/1114041.61W	Y	FB	TF	356.61	17.38			
HIA VOR/DME	455142.44N/1121010.59W	Y	FB	TF	305.01	25.15			

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