

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT ID</u> F41	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 16	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> ENNIS	<u>STATE</u> TX		
<u>AIRPORT ELEVATION</u> 500	<u>TDZE</u> 500	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u> 3E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
DRRAG	IAF	FNYSH		TF	FB	1.00	248.50	5.00	2000
RACNG	IAF	FNYSH		TF	FB	1.00	068.40	5.00	2000
FNYSH	IF	LLINE		TF	FB	1.00	158.45	5.31	2000
LLINE	FAF	RW16	MAP	TF	FO	0.30	158.47	4.58	
RW16	MAP	1000 MSL		CA			158.47		1000
1000 MSL		FNYSH		DF	FO	1.00			2000

MISSED APPROACH

MAP:

LNAV: RW16

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 2000 DIRECT FNYSH AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT FNYSH
- FAC: 158.47 FAF: LLINE DIST FAF TO MAP: 4.58 DIST FAF TO THLD: 4.58
- MIN ALT: FNYSH 2000, LLINE 2000
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: OM: MM: IM:
- MIN GP INCPT: GP ALT AT FAF: 34:1: IS NOT CLEAR 20:1: IS NOT CLEAR TCH:
- GP ANGLE:
- MSA FROM: RW16 3600

QUALITY
13
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 16 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: USE LNC ALTIMETER SETTING; WHEN NOT RECEIVED, USE JWY ALTIMETER SETTING AND INCREASE LNAV MDA 40 FEET.

ADDITIONAL FLIGHT DATA:

CHART MAXIMUM 200 KIAS AT DRRAG.
LLINE TO RW16: 3.00/40.
CHART MAXIMUM 200 KIAS AT RACNG.
CHART LNC AWOS-3PT.
HOLD N, RT, 158.45 INBOUND.
FAS OBST: 689 AAO 322312N/0964154W.

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☒

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LNAV MDA	980	1	480	980	1	480	980	1 3/8	480		NA				

CHANGES - REASONS

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZFW, AMGR, ST AVN DIR.

FLIGHT CHECKED BY

BRIAN HARRELSON

Digitally signed by

ROBERT G HAMILTON

Jun 02, 2026

OFFICE

AJF

DATE

05/29/2026

DEVELOPED BY

TIMOTHY DUNN

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DATE

02/04/2026

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Jun 02, 2026

OFFICE

AJV-A433

DATE

TITLE

MANAGER



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
F41	RNAV (GPS) RWY 16	ORIG	ENNIS	TX	500	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM DRRAG **TO** FNYSH

RNP 1.00 **DISTANCE** 5.00 **PAT** **MAP** **HAT** **HMAS**

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	323018.00N/0964542.00W	762	215	8	4B	1000				AT238	2000
TERRAIN	323024.00N/0964545.00W	561 (600)								AS1000	1600

COMPUTATIONS

ALT **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:

INITIAL

FROM RACNG **TO** FNYSH

RNP 1.00 **DISTANCE** 5.00 **PAT** **MAP** **HAT** **HMAS**

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	322933.00N/0965048.00W	860	215	8	4B	1000				AT140	2000
TERRAIN	322848.00N/0964936.00W	626 (600)								AS1000	1600

COMPUTATIONS

ALT **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:

QUALITY
13
CHECKED

INTERMEDIATE

FROM

FNYSH

TO

LLINE

RNP

1.00

DISTANCE

5.31

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	322645.00N/0964633.00W	775	215	8	4B	500				AT725	2000
TERRAIN	323015.00N/0964551.00W	561 (600)								AS1000	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

LLINE

TO

RW16

RNP

0.30

DISTANCE

4.58

PAT

MAP

RW16

HAT

480

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	322312.00N/0964154.00W	689	215	8	4B	250				RA35	980

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: LNAV

FROM

RW16

TO

FNYSH

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
0.30-1.00											845
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				2000
ANTENNA (48-212284)	321842.78N/0963705.24W	905	20	10	1B	1000					2000
TERRAIN	322218.00N/0963939.00W	564 (600)								AS1000	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☐ CAT A

☐ CAT B

☐ CAT C

☐ CAT D

☐ CAT E

☒ NOT AUTHORIZED

MSA

CENTER

RW16

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (48-008489)	323502.67N/0965748.75W	312	21.2	2549	50	20	2C	1000			3600

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
AWOS-3PT	LNC	24H	LNC	15.13	Y	35
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
AWOS-3P	JWY	24H	JWY	14.78	Y	66

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME.
KF41 500
KLNC 501
KJWY 727
RA = 30.9



PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
APPROACH AND RUNWAY LIGHTING SYSTEM		RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW16 - MIRL (PCL), REIL (PCL), PAPI-2L (PCL)		BSC-F	
RW34 - REIL (PCL), MIRL (PCL), PAPI-2L (PCL)		BSC-F	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
					3.00	35.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	X	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	X	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	LNAV:
20:1	
527 TREE (48-212510) 322011.9400N/0963957.0300W (7.65)	532 TREE (48-212582) 322011.7000N/0964002.7500W (6.01)
524 TREE (48-212313) 322010.6500N/0964001.1500W (5.22)	528 TREE (48-212282) 322011.1900N/0964002.2300W (5.16)
524 TREE (48-212277) 322010.5400N/0964002.2500W (4.25)	523 TREE (48-212150) 322012.0300N/0963957.3100W (2.84)
519 TRAVERSE_WAY (48-212258) 322011.2100N/0963958.1600W (1.61)	518 TRAVERSE_WAY (48-212128) 322011.2600N/0963957.3800W (1.43)
523 TREE (48-212674) 322010.9000N/0964002.3700W (1.36)	523 TREE (48-212065) 322011.0000N/0964002.1600W (1.16)
519 TRAVERSE_WAY (48-212217) 322011.1500N/0963959.0600W (0.67)	
FINAL TYPE	LNAV:
34:1	
530 TREE (48-212247) 322012.8600N/0964002.3800W (11.66)	528 TREE (48-212308) 322012.1900N/0964002.9400W (11.1)
526 TREE (48-212134) 322012.0600N/0964002.7300W (9.63)	523 TREE (48-212097) 322011.4600N/0964002.4700W (8.53)
527 TREE (48-212182) 322014.1900N/0963958.3400W (8.15)	519 TRAVERSE_WAY (48-212149) 322011.1000N/0963959.8500W (7.64)
519 TRAVERSE_WAY (48-212449) 322011.0800N/0964000.2800W (7.36)	518 POLE (48-212617) 322011.4700N/0963957.9800W (7.1)
519 TRAVERSE_WAY (48-212565) 322011.0700N/0964000.7800W (6.98)	519 TRAVERSE_WAY (48-212113) 322011.1200N/0964001.1500W (6.55)
528 TREE (48-212469) 322014.6500N/0964000.0500W (6.48)	519 TRAVERSE_WAY (48-212199) 322011.0200N/0964001.7600W (6.34)
519 TRAVERSE_WAY (48-212061) 322011.1600N/0964001.3200W (6.3)	519 TRAVERSE_WAY (48-212437) 322011.1300N/0964001.6100W (6.15)
524 TREE (48-212211) 322012.4800N/0964003.2000W (6.07)	518 TRAVERSE_WAY (48-212552) 322010.6900N/0964002.3700W (5.78)



<u>AIRPORT ID</u> F41	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 16	<u>AMDT NO.</u> ORIG	<u>CITY</u> ENNIS	<u>STATE</u> TX	<u>AIRPORT ELEVATION</u> 500	<u>FACILITY</u> RNAV
524 TREE (48-212375) 322012.6200N/0964003.2300W (5.65)	523 TREE (48-212159) 322013.5800N/0963958.9600W (5.37)					
518 TRAVERSE_WAY (48-212074) 322011.4500N/0964001.9000W (4.02)	517 TREE (48-212109) 322012.3000N/0963957.8700W (3.85)					
525 TREE (48-212250) 322013.7800N/0964002.6900W (3.82)	524 POLE (48-212202) 322013.7600N/0964002.8800W (2.72)					
520 TREE (48-212400) 322013.6700N/0963958.3000W (2.64)	517 TRAVERSE_WAY (48-212228) 322011.6200N/0964002.0700W (2.4)					
522 TREE (48-212516) 322013.1400N/0964003.5400W (1.94)	513 SIGN (48-212569) 322010.8300N/0964000.4600W (1.92)					
536 TREE (48-212380) 322019.3200N/0964000.1100W (1.27)	512 SIGN (48-212418) 322010.8500N/0964000.0100W (1.22)					
514 BUILDING (48-212174) 322012.4300N/0963957.3200W (0.92)	519 TREE (48-212546) 322013.8200N/0963959.0600W (0.61)					
518 TREE (48-212426) 322012.6900N/0964002.1800W (0.3)	520 TREE (48-212062) 322014.5400N/0963958.3700W (0.14)					
<u>PENETRATIONS REMARKS:</u>						

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

<u>PENETRATIONS REMARKS:</u>

PART C: GENERAL REMARKS:

THE VDP IS NOT PUBLISHABLE DUE TO 20:1 PENETRATIONS AND REMOTE PRIMARY ALTIMETER.
VEGETATION HEIGHT 100' PER FPT.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ORDER 8260.3 CHAPTER 2 APPLIED TO 732 AAO 322400.00N/0964257.00W.



<u>AIRPORT ID</u> F41	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 16	<u>AMDT NO.</u> ORIG	<u>CITY</u> ENNIS	<u>STATE</u> TX	<u>AIRPORT ELEVATION</u> 500	<u>FACILITY</u> RNAV
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PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	2.91
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	161.47
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	500
DISTANCE FROM	THLD	TO 1500FT POINT	4.58
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.13
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	161.47
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	500

THRESHOLD COORDINATES (IF STR-IN)

322005.73N/0963957.46W

ARP COORDINATES

321946.91N/0963950.04W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

RUNWAY 34 DISTANCE 0.33 NM

FAF COORDINATES

322427.06N/0964140.63W

FIX NAME COORDINATES

REMARKS

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
TIMOTHY DUNN	AJV-A433	02/04/2026	AERONAUTICAL INFORMATION SPECIALIST

