

FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE ILS STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29

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>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>		
SJT	ILS OR LOC RWY 3	23	SAN ANGELO	TX		
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
1919	1917	ILS Y OR LOC Y RWY 3	22B	08/11/2022	5E	2020
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
I-SJT			ROUTINE			

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>
JIGEM/SJT 15.00 DME CCW	IAF	BONNY/SJT VORTAC 15.00 DME					15.00 DME ARC (SJT LR-224)		4100
FELUV/SJT 15.00 DME CW	IAF	BONNY/SJT VORTAC 15.00 DME					15.00 DME ARC (SJT LR-208)		4100
BONNY/SJT VORTAC 15.00 DME	IF	WOOLE/I-SJT 7.21 DME					038.15 (I-SJT)	6.23	3900

MISSED APPROACH

MAP:

ILS: DA
LOC: I-SJT 1.15 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 THEN CLIMBING RIGHT TURN TO 4000 ON SJT R-135 TO FELUV/SJT 15 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.					
3. FAC:	038.15	FAF: WOOLE/I-SJT 7.21 DME	DIST FAF TO MAP:	DIST FAF TO THLD:	6.07
4. MIN ALT:	WOOLE/I-SJT 7.21 DME 3900, ERRNY/I-SJT 3.19 DME 2620				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	GS ANT:	1001
6. MIN GS INCPT:	3900	GS ALT AT PFAF: WOOLE/I-SJT 7.21 DME 3900	OM:	MM:	IM:
7. GS ANGLE:	3.00	34:1:	20:1:	TCH:	50.8
8. MSA FROM:	SJT VORTAC 4300				



EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 2685.
CHART NOTE: CIRCLING NA FOR CATS D AND E W OF RWY 18-36.
CHART NOTE: * RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.
CHART PROFILE NOTE: USE I-SJT DME WHEN ON THE LOCALIZER COURSE.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 3 CAT E VISIBILITY TO RVR 4000, S-LOC 3 CAT E VISIBILITY TO RVR 6000.

ADDITIONAL FLIGHT DATA:

CHART I-SJT 13.45 DME AT BONNY.
HOLD SE, RT, 314.58 INBOUND.
CHART FAS OBST: 2044 TRANSMISSION_LINE (48-158289) 312023N/1003058W.
CHART VDP AT 2.19 DME.
DISTANCE VDP TO THLD 1.04 NM.
CHART SJT R-309 AT JIGEM.
CHART SJT R-135 AT FELUV.

MINIMUMS:

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

ALTERNATE: NA ☐ ILS: STANDARD - NA WHEN CONTROL TOWER CLOSED.; LOC: STANDARD - CAT D 800-2 1/2, CAT E 800-2 3/4, NA WHEN CONTROL TOWER CLOSED.

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
S-ILS 03*	2117	2400	200	2117	2400	200	2117	2400	200	2117	2400	200	2117	2400	200
S-LOC 03	2300	2400	383	2300	2400	383	2300	3500	383	2300	3500	383	2300	3500	383
CIRCLING	2360	1	441	2380	1	461	2500	1 1/2	581	2580	2 1/2	661	2700	2 3/4	781



CHANGES - REASONS

1. REMOVED WOOLE LOM (SJ) NDB FROM NAVAID FROM PROCEDURE - WOOLE LOM DECOMMISSIONED.
2. REMOVED FEEDERS FROM SJT VORTAC, TANKR, CHILD, EDWAR - WOOLE LOM DECOMMISSIONED.
3. MOVED (IF) BONNY 33 FT NW - TO ALIGN WITH FAC.
4. RETAINED WOOLE NAME FOR PFAF FIX NAME - FPT/ATC REQUEST.
5. CHANGED MISSED APP INSTRUCTIONS FROM "CLIMB TO 4000 THEN RIGHT TURN DIRECT SJT VORTAC AND HOLD" TO "CLIMB TO 3000 THEN CLIMBING RIGHT TURN TO 4000 ON SJT R-135 TO FELUV/SJT 15.00 DME AND HOLD" - FPT/ATC REQUEST.
6. REMOVED PROCEDURE TURN - WOOLE LOM DECOMMISSIONED.
7. REMOVED THE "Y" IN THE ILS Y OR LOC Y RWY 3 PROCEDURE - NOT REQUIRED.
8. REMOVED "CHART CIRCLING ICON" IAW MEMO DATED 05/15/2025.
9. REMOVED NOTE "CAT E PROCEDURE TURN NA" - NOT NEEDED, REMOVED PROCEDURE TURN.
10. CHANGED NOTE FROM "FOR INOPERATIVE ALS, INCREASE S-ILS 3 CAT E VISIBILITY TO RVR 4000, S-LOC 3 CAT C/D/E VISIBILITY TO 2 SM" TO ""FOR INOPERATIVE ALS, INCREASE S-ILS 3 CAT E VISIBILITY TO RVR 4000, S-LOC 3 CAT E VISIBILITY TO RVR 6000 - NEW TARGETS EVALUATION.
11. REMOVED ALS INOP NOTE "ERRNY DME MINIMUMS: FOR INOPERATIVE ALS, INCREASE S-LOC 03 CAT C/D/E VISIBILITY TO RVR 5500" - NOT NEEDED.
12. CHANGED CHART VDP AT FROM 2.12 DME TO 2.19 DME, DISTANCE VDP TO THLD FROM 0.98 NM TO 1.04NM - IAW 8260.19K 8-6-11 M.
13. REMOVED ASTERISK FROM "LOC ONLY" AND S-LOC 03 - NOT REQUIRED.
14. CHANGED EQUIPMENT REQUIREMENT NOTE FROM "ADF OR DME REQUIRED" FOR PROCEDURE ENTRY TO "DME REQUIRED" - WOOLE LOM DECOMMISSIONED, DME REQUIRED.
15. REMOVED "CHART: ASR" - NOT NEEDED.
16. CHANGED S-LOC 3 VIS FROM CAT C/D/E 5/8 TO RVR 3500 - NEW TARGETS EVALUATION.
17. CHANGED CIRCLING CAT C VIS FROM 2 TO 1 1/2 - NEW TARGETS EVALUATION.
18. ADDED CAT D TO NOTE "CIRCLING NA FOR CATS D AND E W OF RWY 18-36" - CONSISTENT ACROSS PROCEDURES.
19. CIRCLING CAT D CHANGED FROM MDA 2700/HAA 781 TO CIRCLING MDA CAT D 2580//HAA 661 - NEW TERRAIN EVALUATION, CIRCLING CAT D RESTRICTION ADDED FOR CONSISTENCY.

05/22/26: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 11/05/25.
1. TERMINAL ROUTES: ADDED COURSE LR FACILITY SJT TO (LR-224) FROM JIGEM TO BONNY.

COORDINATED WITH:

A4A

☒

ALPA

☒

AOPA

☒

APA

☒

HAI

☐

NBAA

☒

OTHER: ZFW, SJT APP CON, AMGR

FLIGHT CHECKED BY
BRIAN DAVID HARRELSON

Digitally signed by

RAKE MCGRAW

Jun 30, 2026

OFFICE

FIOG

DATE

02/03/2026

DEVELOPED BY
ARTHUR ULVESTAD

Digitally signed by

RAKE MCGRAW

Jun 30, 2026

OFFICE

AJV-A422

DATE

11/05/2025

APPROVED BY
RAKE MCGRAW

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RAKE MCGRAW

Jun 30, 2026

OFFICE

AJV-A422

DATE

07/30/2026

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>
SJT	ILS OR LOC RWY 3	23	SAN ANGELO	TX	1919	I-SJT

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL: ARC

FROM JIGEM/SJT 15.00 DME CCW
TO BONNY/SJT VORTAC 15.00 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>				<u>HMAS</u>		
<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>
WINDMILL (48-025546)	310951.29N/1003807.05W	2932	250	50	4D	1000				AT168	4100
TERRAIN	311303.00N/1004618.00W	2545 (2500)								AS1500	4000

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL: ARC

FROM FELUV/SJT 15.00 DME CW
TO BONNY/SJT VORTAC 15.00 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>			<u>HMAS</u>		
<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>
WINDMILL (48-023658)	310635.72N/1003914.66W	2956	250	50	4D	1000				AT144	4100
TERRAIN	310636.00N/1003915.00W	2539 (2500)								AS1500	4000

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY
39
CHECKED

INTERMEDIATE

FROM

BONNY/SJT VORTAC 15.00 DME

TO

WOOLE/I-SJT 7.21 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
	6.23										
<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>
WINDMILL (48-025548)	310957.77N/1003757.23W	2931	250	50	4D	500				AT469	3900
TERRAIN	311136.00N/1003803.00W	2509 (2500)								AS1000	3500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: ILS

FROM

WOOLE/I-SJT 7.21 DME

TO

RW03

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
	5.16		DA				200				
<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				2117

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LOC

FROM

WOOLE/I-SJT 7.21 DME

TO

ERRNY/I-SJT 3.19 DME

RNP	DISTANCE	PAT	MAP		HAT		HMAS				
	4.02										
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	311730.00N/1003421.00W	2353	215	8	4B	250				XL4	2620

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LOC STEPDOWN

FROM

ERRNY/I-SJT 3.19 DME

TO

I-SJT 1.15 DME

RNP	DISTANCE	PAT	MAP		HAT		HMAS				
	2.05		I-SJT 1.15 DME		383						
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TRANSMISSION_LINE (48-158289)	312022.60N/1003058.40W	2044	20	3	1A	250					2300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSSED APPROACH: ILS

FROM

DA

TO

FELUV/SJT 15.00 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
								1951			
<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				4000
AAO	311403.00N/1001927.00W	2674	215	8	4B	1000					3700
TERRAIN	311403.00N/1001927.00W	2473 (2500)								AS1500	4000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSSED APPROACH: LOC

FROM

I-SJT 1.15 DME

TO

FELUV/SJT 15.00 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
								2050			
<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				4000
AAO	311403.00N/1001927.00W	2674	215	8	4B	1000					3700
TERRAIN	311403.00N/1001927.00W	2473 (2500)								AS1500	4000

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

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TOWER (48-025384)	312111.85N/1003055.83W	1.32	441	2056	20	3	1A	300			2360
CATEGORY B											
TRANSMISSION_LINE (48-195293)	312103.01N/1002747.06W	1.87	461	2067	50	20	2C	300			2380
CATEGORY C											
TOWER (48-001287)	312441.66N/1002830.77W	2.95	581	2183	50	20	2C	300			2500
CATEGORY D											
TOWER (48-023478)	311901.88N/1002610.55W	3.86	661	2268	20	10	1B	300			2580
CATEGORY E											
AAO	311709.00N/1002821.00W	4.83	781	2310	215	8	4B	300		HA90	2700

CIRCLING REMARKS:

MSA

CENTER
SJT VORTAC

RADIUS
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (48-004098)	312201.60N/1000249.90W	081	20.9	3283	250	50	4D	1000			4300

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

SJT FSS, MAF APP CON, SJT TOWER

WX SERVICE ASOS	LOCATION SJT	HRS OPERATION 24	ALTIMETER SOURCE SJT	DISTANCE	WMSCR Y	ADJUSTMENTS 0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS

WX REMARKS:

BACKUP ALTIMETER SOURCE NOT ESTABLISHED DUE TO AVAILABILITY OF NWS AND ATC AT THE AIRPORT.



PRIMARY NAVAID I-SJT	MONITOR POINT ATCT	HRS OPERATION TWR OPENED TWR CLSD	CAT 1 3
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APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW09 - MIRL (PCL)	BSC-G	
RW27 - MIRL (PCL)	BSC-G	
RW18 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)	NPI-G	
RW36 - MIRL (PCL), PAPI-4L (PCL)	NPI-G	
RW03 - MALSR (PCL), HIRL (PCL)	PIR-G	APPROACH
RW21 - HIRL (PCL), VASI-4L	PIR-G	ROLL OUT

GLIDESLOPE ANGLE 3.00	ELEV RWY THRESHOLD 1916.4	TCH 50.8	ELEV GS ANTENNA 1913.1	DISTANCE FROM RWY 1001	VGSI ANGLE	TCH
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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

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

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

PENETRATIONS REMARKS:



PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

55 FT VEGETATION APPLIED PER FPT.

DESIGN TCH 50.8.

ORDER 8260.3 CHAPTER 2 APPLIED TO
2389 TERRAIN+AAO 311657N/1003539W

ALTERNATE MISSED APPROACH NOT DEVELOPED PER FPT REQUEST.
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

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	3.87
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.06
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	043.15
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	2200
DISTANCE FROM	THLD	TO 1500FT POINT	12.10
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	043.15
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	2500

THRESHOLD COORDINATES (IF STR-IN)	312058.93N/1002959.52W
ARP COORDINATES	312127.89N/1002946.70W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 36 DISTANCE 0.69 NM
FAF COORDINATES	311632.60N/1003450.12W
FIX NAME COORDINATES	

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
ARTHUR ULVESTAD	AJV-A422	11/05/2025	AERONAUTICAL INFORMATION SPECIALIST

