

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23**

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	VOR Y RWY 21	18A	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SUPERSEDED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	1906	VOR Y RWY 21	18	12/02/2021	10E	1965
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
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>
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MISSED APPROACH

MAP:

1.83 NM AFTER SJT VORTAC OR AT PAPIY/SJT 1.83 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000, THEN LEFT TURN DIRECT SJT VORTAC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT R	SIDE OF COURSE	060.00	OUTBOUND	3800	FT WITHIN	10	MILES OF	SJT VORTAC (IAF)
2.								
3. FAC:	235.00	FAF:	SJT VORTAC	DIST FAF TO MAP:	1.83	DIST FAF TO THLD:	1.83	
4. MIN ALT:	SJT VORTAC 2600							
8. MSA FROM:	SJT VORTAC 4300							

NOTES:

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH (FEET)).
CHART NOTE: CIRCLING NA FOR CAT D W OF RWY 18-36.

ADDITIONAL FLIGHT DATA:

SJT VORTAC TO RW21: 3.34/59.
HOLD NE, LT, 240.00 INBOUND.
CHART FAS OBST: 2045 TOWER (48-175403) 312139N/1002750W.
CHART VDP AT 0.73 DME.
DISTANCE VDP TO THLD 1.10 NM.
FAC CROSSES RWY C/L EXTENDED 478 FT FROM THLD.



MINIMUMS:

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

ALTERNATE: NA STANDARD

CATEGORY:	A			B			C			D			E			
	FINAL TYPE	DA/MDA	VIS	HAT/HAA												
S-21	2300	1	394	2300	1	394	2300	1 1/8	394	2300	1 1/8	394				
CIRCLING	2360	1	441	2380	1	461	2500	1 1/2	581	2580	2	661				

CHANGES - REASONS

1. REMOVED WOOLE LOM (SJ) NDB NAVAID FROM PROCEDURE - WOOLE LOM DECOMMISSIONED.
2. REMOVED FEEDERS FROM CHILD, EDWAR, AND TANKR - NOT NEEDED.
3. FAC AIMING FROM THLD CHANGED FROM 477FT TO 478FT - NEW TARGETS EVALUATION.
4. CHANGED FROM "VDP AT 0.72 DME, DISTANCE VDP TO THLD 1.11" TO "VDP AT 0.73 DME AND VDP TO THLD 1.10" - OPTIMAL DESCENT ANGLE.
5. REMOVED "CHART CIRCLING ICON" - NO LONGER REQUIRED.

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: ZFW, MAF ATCT, SJT APP CON, AMGR

FLIGHT CHECKED BY

OFFICE **DATE**

DEVELOPED BY
ARTHUR ULVESTAD

OFFICE **DATE**
AJV-A422 11/18/2025

APPROVED BY
RAKE MCGRAW

OFFICE **DATE** **TITLE**
AJV-A422 **MANAGER**



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SJT

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18A

CITY
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AIRPORT ELEVATION
1919

FACILITY
SJT

PROCEDURE TURN

FROM
SJT VORTAC

TO
10 NM

RNP DISTANCE 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>
TOWER (48-007985)	312516.58N/1003237.34W	2692	500	50	5D	1000				AT108	3800
TERRAIN	312545.00N/1003209.00W	2208 (2200)								AS1500	3700

COMPUTATIONS

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

SEGMENT REMARKS:

MISSED APPROACH

FROM
1.83 NM AFTER SJT VORTAC OR AT PAPIY/SJT 1.83 DME

TO
SJT VORTAC

RNP DISTANCE PAT MAP HAT HMAS
2045

<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	311136.00N/1003803.00W	2710	215	8	4B	1000					3800
TERRAIN	311136.00N/1003803.00W	2509 (2500)								AS1500	4000

COMPUTATIONS

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

SEGMENT REMARKS:



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CIRCLING ALL CATS CAT A CAT B CAT C CAT D CAT E NOT AUTHORIZED

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>RADIUS</u>	<u>HAA</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
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

CIRCLING REMARKS:

MSA

CENTER RADIUS
SJT VORTAC 25

<u>SECTOR</u>	<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>BEARING</u>	<u>DISTANCE</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
360-360	TOWER (48-004098)	312202.00N/1000249.00W	081	20.9	3283	500	50	5D	1000			4300

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

MAF TOWER, SJT FSS

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> SJT	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> SJT	<u>DISTANCE</u>	<u>WMSCR</u> Y	<u>ADJUSTMENTS</u> 0
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<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>
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WX REMARKS:

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

<u>PRIMARY NAVAID</u> SJT VORTAC	<u>MONITOR POINT</u> ZFW	<u>HRS OPERATION</u> 24	<u>CAT</u> 1
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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

ELEV RWY THRESHOLD

TCH

ELEV GS ANTENNA

DISTANCE FROM RWY

VGSI ANGLE

TCH

3.00

52.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD
ON CENTERLINE

478 FT FROM THRESHOLD
FT FROM CENTERLINE

DISPLACED THRESHOLD DISTANCE

CRITICAL TEMPERATURES

CRITICAL LOW

CRITICAL HIGH

ACT

APT ISA

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.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



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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	MAP	TO 1000FT POINT	8.83
WIDTH OF	INTERMEDIATE	SEGMENT AT 1000FT POINT	7.20
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1000FT POINT	250.00
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1000FT POINT	1900
DISTANCE FROM	MAP	TO 1500FT POINT	8.83
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	7.20
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	250.00
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	1900

THRESHOLD COORDINATES (IF STR-IN)	312141.81N/1002912.68W
ARP COORDINATES	312127.89N/1002946.70W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 36 DISTANCE 0.69 NM
FAF COORDINATES	312229.84N/1002717.53W
FIX NAME COORDINATES	

REMARKS

1500-FOOT POINT LOCATED IN THE PT MANEUVERING AREA.

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
ARTHUR ULVESTAD	AJV-A422	11/18/2025	AERONAUTICAL INFORMATION SPECIALIST

