

**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> K59	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 27	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> ATCHISON	<u>STATE</u> KS
<u>AIRPORT ELEVATION</u> 1064	<u>TDZE</u> 1061	<u>SUPERSEDED</u>	<u>DATED</u>	<u>MAG VAR</u> 2E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> 03/19/2026	<u>EPOCH YEAR</u> 2020
				<u>CANCEL/SUSPEND</u>

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 178/30 CW 358/30	NOPT	ELRON	IF/IAF	3000
2. 358/30 CW 088/30		GRINN	IAF	3000
3. 088/30 CW 178/30		JEDDD	IAF	3000

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>
JEDDD	IAF	ELRON	NOPT	TF	FB	1.00	178.11	7.00	3000
GRINN	IAF	ELRON	NOPT	TF	FB	1.00	358.11	7.00	3000
ELRON	IF/IAF	CHEEK		TF	FB	1.00	268.11	6.10	3000
CHEEK	FAF	RW27	MAP	TF	FO	0.30	268.03	6.02	
RW27	MAP	1312 MSL		CA			268.03		
1312 MSL		BMACC		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW27

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT BMACC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

- 1. **PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
- 2. HOLD E ELRON, RT, 268.11 INBOUND, 3000 IN LIEU OF PT (IAF), MAX 6000.
- 3. **FAC:** 268.03 **FAF:** CHEEK **DIST FAF TO MAP:** 6.02 **DIST FAF TO THLD:** 6.02
- 4. **MIN ALT:** ELRON 3000, CHEEK 3000
- 5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **251 HAT:** 0.71 **GS ANT:**
- 6. **MIN GP INCPT:** 3000 **GP ALT AT PFAF:** CHEEK 3000 **OM:** **MM:** **IM:**
- 7. **GP ANGLE:** 3.00 **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:** 43.2
- 8. **MSA FROM:**

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING MCI ALTIMETER SETTING.
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MCI ALTIMETER SETTING AND INCREASE LPV DA TO 1380; INCREASE LNAV/VNAV DA TO 1395 FEET; INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT C 3/8 SM.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 087.77 INBOUND.
 CHART FAS OBST: 1235 TOWER (20-078552) 393456N/0950753W.
 CHART 1381 TOWER (29-001638) 393312N/0950219W.
 CHART VDP AT 1.11 NM TO RW27.
 WAAS CHANNEL # 99647
 REFERENCE PATH ID: W27A
 LTP HAE: 285.6 M

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
LPV DA	1312	1	251	1312	1	251	1312	1	251		NA					
LNAV/VNAV DA	1327	1	266	1327	1	266	1327	1	266		NA					
LNAV MDA	1440	1	379	1440	1	379	1440	1	379		NA					
CIRCLING	1520	1	456	1520	1	456	1580	1 1/2	516		NA					

CHANGES - REASONS

ORIGINAL PROCEDURE.



AIRPORT ID
K59

PROCEDURE NAME
RNAV (GPS) RWY 27

ORIGINAL/AMENDMENT
ORIG

CITY
ATCHISON

STATE
KS

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA

OTHER: ZKC, STJ APP CON, MCI APP CON, AMGR

FLIGHT CHECKED BY

PENDING

Digitally signed by

ALLAN WILL

Aug 14, 2025

OFFICE

DATE

DEVELOPED BY

ALLAN WILL (TEVAR MALONE)

Digitally signed by

ALLAN WILL

Aug 14, 2025

OFFICE

AJV-A33

DATE

06/02/2025

APPROVED BY

KYLE THOMPSON

OFFICE

AJV-A33

DATE

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD

OPERATION TYPE
SBAS SERVICE PROVIDER IDENTIFIER
AIRPORT IDENTIFIER
RUNWAY
APPROACH PERFORMANCE DESIGNATOR
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR
REFERENCE PATH IDENTIFIER (APPROACH ID)
LTP/FTP LATITUDE
LTP/FTP LONGITUDE
LTP/FTP ELLIPSOIDAL HEIGHT
FPAP LATITUDE
FPAP LONGITUDE
THRESHOLD CROSSING HEIGHT (TCH)
TCH UNITS SELECTOR (METERS OR FEET USED)
GLIDEPATH ANGLE (GPA)
COURSE WIDTH AT THRESHOLD
LENGTH OFFSET
HORIZONTAL ALERT LIMIT (HAL)
VERTICAL ALERT LIMIT (VAL)

DATA

0
0
K59
RW27
0
0
W27A
393416.3725N
0951009.7655W
+02856
393416.2725N
0951204.9900W
00043.2
F
03.00
106.75
1528
40.0
50.0

CRC REMAINDER

F4BF3038

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE
LTP ORTHOMETRIC HEIGHT
FPAP ORTHOMETRIC HEIGHT

K3
+03173
+03173



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

<u>AIRPORT ID</u> K59	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 27	<u>AMDT NO.</u> ORIG	<u>CITY</u> ATCHISON	<u>STATE</u> KS	<u>AIRPORT ELEVATION</u> 1064	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM 178/30 CW 358/30	TO ELRON
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<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (20-000940)	390858.00N/0945645.00W	1950	500	50	5D	1000					3000
TERRAIN	393403.00N/0945142.00W	1194 (1200)								AS1500	2700

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

LEFT BASE AREA

FROM 358/30 CW 088/30	TO GRINN
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<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (20-000940)	390858.00N/0945645.00W	1950	500	50	5D	1000					3000
TERRAIN	391030.00N/0951409.00W	1194 (1200)								AS1500	2700

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



AIRPORT ID
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RIGHT BASE AREA

FROM
088/30 CW 178/30

TO
JEDDD

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (20-001840)	394235.00N/0950234.00W	1978	50	20	2C	1000					3000
TERRAIN	394903.00N/0950251.00W	1204 (1200)								AS1500	2700

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM
JEDDD

TO
ELRON

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
1.00 7.00

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (29-002973)	393603.62N/0945613.07W	1618	20	3	1A	1000				AT382	3000
TERRAIN	393609.00N/0945530.00W	1187 (1200)								AS1500	2700

COMPUTATIONS

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

SEGMENT REMARKS:



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AIRPORT ELEVATION
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FACILITY
RNAV

INITIAL

FROM
GRINN

TO
ELRON

RNP
1.00

DISTANCE
7.00

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	393400.00N/0945212.00W	1385	215	8	4B	1000				AT615	3000
TERRAIN	393400.00N/0945212.00W	1184 (1200)								AS1500	2700

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM
ELRON (IF/IAF)

TO
CHEEK

RNP
1.00

DISTANCE
6.10

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (29-002973)	393603.62N/0945613.07W	1618	20	3	1A	500				AT882	3000
TERRAIN	393609.00N/0945530.00W	1187 (1200)								AS1500	2700

COMPUTATIONS

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

SEGMENT REMARKS:



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FACILITY
RNAV

FINAL: LPV

FROM
CHEEK

TO
RW27

RNP
0.30

DISTANCE
6.02

PAT

MAP
DA

HAT
251

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (20-081749)	393412.70N/0950946.18W	1104	20	3	1A		34.00:1			MA1	1312

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM
CHEEK

TO
RW27

RNP
0.30

DISTANCE
6.02

PAT

MAP
DA

HAT
266

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
WATER_TOWER (20-081672)	393426.46N/0950953.90W	1177	20	3	1A	150					1327

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV

FROM
CHEEK

TO
RW27

RNP
0.30

DISTANCE
6.02

PAT

MAP
RW27

HAT
379

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (20-078552)	393455.90N/0950753.13W	1235	50	20	2C	250				XL1 SA-47	1440

COMPUTATIONS

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

SEGMENT REMARKS:



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FACILITY
RNAV

MISSED APPROACH: LNAV/VNAV

FROM
DA **TO**
BMACC

RNP 0.30-1.00 **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
1177

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
ANTENNA (20-081719)	393348.03N/0951517.97W	1519	20	3	1A	1000					2600
TERRAIN	393603.00N/0952039.00W	1167 (1200)								AS1500	2700

COMPUTATIONS

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

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM
RW27 **TO**
BMACC

RNP 0.30-1.00 **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
1339

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
ANTENNA (20-081719)	393348.03N/0951517.97W	1519	20	3	1A	1000					2600
TERRAIN	393603.00N/0952039.00W	1167 (1200)								AS1500	2700

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

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TOWER (20-002123)	393300.00N/0951013.00W	1.30	456	1218	20	3	1A	300			1520
CATEGORY B											
TOWER (20-002123)	393300.00N/0951013.00W	1.84	456	1218	20	3	1A	300			1520
CATEGORY C											
WATER_TOWER (20-081767)	393340.87N/0951432.52W	2.90	516	1280	20	3	1A	300			1580

CIRCLING REMARKS:

MSA/ESA

CENTER

RADIUS

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



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PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>
AWOS-3PT	K59	24	K59		N	0
<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>
ASOS	MCI	24	MCI	27.16	Y	68

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KK59 1064, KMCI 1026
RA = 67.8

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW09 - REIL (PCL), MIRL (PCL), PAPI-2L	NPI-F	
RW27 - MIRL (PCL), REIL (PCL), PAPI-2L	NPI-F	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
3.00	1041.0	43.2			3.00	43.2

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
-17C	+54C	-17C	+12.89C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 830 HIGH TEMP 1180.

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	LPV, LNAV/VNAV, AND LNAV
34:1	
1104 TREE (20-081749) 393412.7000N/0950946.1800W (14.58)	1093 TREE (20-081676) 393419.2700N/0950948.8800W (9.78)
1091 TREE (20-081712) 393416.5700N/0950949.5800W (9.4)	1070 TREE (20-081659) 393416.8500N/0950957.9300W (7.63)
1091 TREE (20-081737) 393414.1700N/0950948.7200W (7.42)	1085 TREE (20-081735) 393419.3000N/0950951.3200W (7.4)
1080 TREE (20-081714) 393417.1300N/0950953.3000W (6.96)	1089 TREE (20-081718) 393414.4400N/0950949.2700W (6.69)
1089 TREE (20-081665) 393417.5000N/0950948.4000W (4.68)	1088 TREE (20-081761) 393417.7000N/0950948.5700W (4.07)



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1067 TREE (20-081647) 393415.9300N/0950957.3400W (3.27)

1085 TREE (20-081716) 393416.8500N/0950949.5000W (3.21)

1076 TREE (20-081673) 393416.7800N/0950953.2900W (2.94)

1090 TREE (20-081674) 393414.6500N/0950946.8300W (2.07)

1084 TREE (20-081743) 393417.2000N/0950949.3900W (1.96)

1083 TREE (20-081666) 393413.7400N/0950949.1800W (0.48)

PENETRATIONS REMARKS:

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.

LPV AND LNAV/VNAV VISIBILITY IS LIMITED TO 1 SM AS THE ALP DOES NOT AUTHORIZE LESS THAT 1SM.

VEGETATION HEIGHT USED: 100 FT.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1381 TOWER (29-001638) 393312.00N/0950219.00W.

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	3.02
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	270.03
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1100
DISTANCE FROM	THLD	TO 1500FT POINT	5.22
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.39
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	270.03
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1100

THRESHOLD COORDINATES (IF STR-IN)

393416.37N/0951009.77W

ARP COORDINATES

393416.40N/0951035.30W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

RUNWAY 9 DISTANCE 0.33 NM

FAF COORDINATES

393416.45N/0950222.99W

FIX NAME COORDINATES

REMARKS

TAA: IAF GRINN 392715.65N 0945430.74W 30 NM RADIUS
IAF JEDDD 394116.35N 0945428.61W 30 NM RADIUS
IF/IAF ELRON 393416.00N 0945429.68W 30 NM RADIUS



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FACILITY
RNAV

PART E: PREPARED BY

NAME
ALLAN WILL (TEVAR MALONE)

OFFICE
AJV-A33

DATE
06/02/2025

TITLE
AERONAUTICAL INFORMATION SPECIALIST

