

**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> MSP	<u>PROCEDURE NAME</u> ILS Z OR LOC RWY 35 ILS RWY 35 (SA CAT I) ILS RWY 35 (CAT II) ILS RWY 35 (CAT III)	<u>ORIGINAL/AMENDMENT</u> 6	<u>CITY</u> MINNEAPOLIS	<u>STATE</u> MN		
<u>AIRPORT ELEVATION</u> 842	<u>TDZE</u> 834	<u>SUPERSEDED</u> ILS Z OR LOC RWY 35 ILS RWY 35 (SA CAT I) ILS RWY 35 (CAT II) ILS RWY 35 (CAT III)	<u>ORIGINAL/AMENDMENT</u> 5	<u>DATED</u> 01/05/2017	<u>MAG VAR</u> 0E	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> I-BMA	<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>
JAMEZ/21.37 DME/RADAR	IAF	OBERR/17.88 DME/RADAR					349.53 (I-BMA)	3.49	6000
OBERR/17.88 DME/RADAR		SSTAR/14.38 DME/RADAR					349.53 (I-BMA)	3.50	5000
SSTAR/14.38 DME/RADAR		ROZEE/11.24 DME/RADAR					349.53 (I-BMA)	3.14	4000
NNEWW	IAF	ROZEE		TF	FB	1.00	013.45	10.59	4000
ROZEE/11.24 DME/RADAR	IF	LORAH/8.10 DME/RADAR					349.53 (I-BMA)	3.14	3000

MISSED APPROACH

MAP:

ILS: DA
LOC: 6.63 NM AFTER LORAH/8.10 DME/RADAR OR AT I-BMA 1.47 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1600 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 240 AND ON GEP VORTAC R-182 TO LYDIA INT/GEP 32.57 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 1600 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 180 AND ON FGT VORTAC R-258 TO LYDIA INT/FGT 12.80 DME AND HOLD. (DME REQUIRED).

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)						
2. PROFILE STARTS AT	ROZEE/11.24 DME/RADAR										
3. FAC:	349.53	FAF:	LORAH/8.10 DME/RADAR		PFAF:	LORAH/I-BMA 8.10 DME/RADAR		DIST FAF TO MAP:	6.63		
4. MIN ALT:	ROZEE/11.24 DME/RADAR 4000, LORAH/8.10 DME/RADAR 3000, HUCUM/3.77 DME/RADAR 1620										
5. DIST TO THLD FROM OM:		MM:	IM:	858.00	100 HAT:	1062.00	150 HAT:	1824.00	GS ANT:	1051	
6. MIN GS INCPT:	3000	GS ALT AT PFAF:				LORAH/I-BMA 8.10 DME/RADAR 3000		OM:	MM:	IM:	933
7. GS ANGLE:	3.00	34:1:	20:1:		TCH:	55.0					
8. MSA FROM:	GEP VORTAC 3500										



PBN REQUIREMENTS NOTE:

RNP APCH-GPS. FROM NNEWW.

EQUIPMENT REQUIREMENTS NOTES:

DME OR RADAR REQUIRED.

NOTES:

SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 35: CAT A, B, C, D, RA 157, RVR 1400, HAT 150, DA 984 MSL
CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 35: CAT A, B, C, D, RA 106, RVR 1200, HAT 110, DA 944 MSL
CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 35: CAT A, B, C, D, RVR 600
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 35 CATS C/D VISIBILITY TO RVR 5500.
CHART SPEED ICON IN PLANVIEW AT JAMEZ: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT NNEWW: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART: FGT R-258/12.80 DME AT LYDIA INT.
HOLD S, RT, 002.00 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W LYDIA INT/FGT 12.80 DME, RT, 077.97 INBOUND.
CHART FAS OBST: 918 BUILDING (27-023922) 445134N/0931353W.
CHART VDP AT 2.34 DME.
DISTANCE VDP TO THLD 0.86 NM.
CHART IN PLANVIEW: LYDIA INT/FGT 12.80 DME.
CHART AT OR ABOVE 7000 AT JAMEZ.
CHART MANDATORY 7000 AT NNEWW.

MINIMUMS:

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

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD - CAT D 800-2 1/2

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 35	1034	1800	200	1034	1800	200	1034	1800	200	1034	1800	200			
S-LOC 35	1180	2400	346	1180	2400	346	1180	3000	346	1180	3000	346			
CIRCLING	1360	1	518	1360	1	518	1460	1 3/4	618	1620	2 1/2	778			



CHANGES - REASONS

1. TERMINAL ROUTES: REMOVED ALL "I-BMA" INSTANCES - PER CURRENT CRITERIA DOCUMENTATION STANDARDS.
2. MAP: REMOVED "I-BMA" INSTANCE FROM LOC INSTRUCTIONS - PER CURRENT CRITERIA DOCUMENTATION STANDARDS.
3. PROFILE LINE 2: CHANGED FROM "PROFILE STARTS AT ROZEE" TO "PROFILE STARTS AT ROZEE/11.24 DME/RADAR" - IF IS DEFINED AS DME AND RADAR.
4. PROFILE LINE 3: CHANGED FAF FROM "LORAH/I-BMA 8.10 DME/RADAR" TO "LORAH/8.10 DME/RADAR" AND ADDED PFAF "LORAH/8.10 DME/RADAR" - PER CURRENT CRITERIA DOCUMENTATION STANDARDS.
5. PROFILE LINE 4: CHANGED FROM "ROZEE 4000, LORAH 3000, HUCUM/I-BMA 3.77 DME/RADAR 1600*" TO "ROZEE/11.24 DME/RADAR 4000, LORAH/8.10 DME/RADAR 3000, HUCUM/3.77 DME/RADAR 1620" - IF AND FAF DEFINED AS DME AND RADAR.
6. PROFILE LINE 5: CHANGED 100 HAT FROM 1065 TO 1062 AND 150 HAT FROM 1828 TO 1824 - FAF RELOCATED BASED ON GPA/TCH.
7. PROFILE LINE 6: CHANGED GS ALT AT PFAF FROM "LORAH 3000" TO "LORAH/8.10 DME/RADAR 3000" - PER CURRENT CRITERIA DOCUMENTATION STANDARDS.
8. PROFILE LINE 8: CHANGED MSA FROM "MSP VOR/DME 090-270 2800, 270-090 3500" TO "GEP VORTAC 3500" - MSP VOR MON PROGRAM.
9. PBN REQUIREMENTS NOTE: ADDED "RNP APCH - GPS. FROM NNEWW." - PER 8260.19J, PARA 8-6-8D(1).
10. EQUIPMENT REQUIREMENTS NOTES: ADDED "DME OR RADAR REQUIRED" AND REMOVED IT FROM NOTES - PER 8260.19J, PARA 8-6-9A(2)&(3).
11. REMOVED "CHART PLANVIEW NOTE ADJACENT TO NNEWW: GPS REQUIRED" FROM NOTES - NOW COVERED BY PBN REQUIREMENTS NOTES.
12. ADDED "CHART SPEED ICON IN PLANVIEW AT JAMEZ: MAX 210 KIAS" AND "CHART SPEED ICON IN PLANVIEW AT NNEWW: MAX 210 KIAS" - PER ATC REQUEST.
13. CHANGED CHART NOTE FROM "FOR INOPERATIVE ALS, INCREASE S-ILS 35 CAT E VISIBILITY TO RVR 4000 AND S-LOC 35 CATS C/D/E VISIBILITY TO RVR 5500" TO "FOR INOPERATIVE ALS, INCREASE S-LOC 35 CATS C/D VISIBILITY TO RVR 5500" - PER 8260.3F VIS TABLES.
14. ADDITIONAL FLIGHT DATA: REMOVED "CHART PLANVIEW NOTE: DME OR RADAR REQUIRED" - NOW COVERED EQUIPMENT REQUIREMENTS NOTES.
15. ADDITIONAL FLIGHT DATA: REMOVED "*" FROM "CHART VDP AT 2.34 DME" AND "LOC ONLY" - NO LONGER REQUIRED.
16. ADDITIONAL FLIGHT DATA: ADDED ID (27-023922) TO CHART FAS OBST - PER CURRENT CRITERIA DOCUMENTATION STANDARDS.
17. ADDITIONAL FLIGHT DATA: REMOVED "FAS OBST: 1310 AAO 444548N/0931329W" - NO LONGER ACCURATE.
18. CHANGED FROM "ILS: STANDARD - CAT C 700-2, CAT D 900-2 3/4, CAT E 1000-3; LOC: STANDARD - CAT D 900-2 3/4, CAT E 1000-3" TO "ILS: STANDARD; LOC: STANDARD - CAT D 800-2 1/2" - PER UPDATED 8260.3F VIS TABLES.
19. REMOVED CAT E FOR ALL MINIMA PER ATC REQUEST.
20. CHANGED CIRCLING CAT D MDA/HAA FROM 1660/1818 TO 1620/778 AND VISIBILITY FROM 2 3/4 SM TO 2 1/2 - NEW CONTROLLING OBSTACLE.
21. DELETED "CHART CIRCLING ICON" FROM ADDITIONAL FIGHT DATA - NO LONGER REQUIRED BY CRITERIA.

COORDINATED WITH:

A4A

☒

ALPA

☒

AOPA

☒

APA

☒

HAI

☐

NBAA

☒

OTHER: ZMP, MSP APP CON, AMGR

FLIGHT CHECKED BY

OFFICE

DATE

DEVELOPED BY

CASIMIR L. TABAKA (SILVIA YOUNG)

Digitally signed by
CASIMIR L TABAKA

Aug 19, 2025

OFFICE

AJV-A432

DATE

05/19/2025

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by
CASIMIR L TABAKA
Aug 19, 2025

OFFICE

AJV-A432

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>
MSP	ILS Z OR LOC RWY 35 ILS RWY 35 (SA CAT I) ILS RWY 35 (CAT II) ILS RWY 35 (CAT III)	6	MINNEAPOLIS	MN	842	I-BMA

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

<u>FROM</u>	<u>TO</u>
JAMEZ/21.37 DME/RADAR	OBERR/17.88 DME/RADAR

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
	3.49				

<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 (27-001333)	443417.00N/0930441.00W	1360	250	50	4D	1000				AT3640	6000
TERRAIN	443351.00N/0931157.00W	1066 (1100)								AS1500	2600

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:

INITIAL: STEPDOWN

<u>FROM</u>	<u>TO</u>
OBERR/17.88 DME/RADAR	SSTAR/14.38 DME/RADAR

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
	3.50				

<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 (27-000126)	443818.00N/0930912.00W	1248	250	50	4D	1000				AT2752	5000
TERRAIN	443854.00N/0931324.00W	1003 (1000)								AS1500	2500

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:

QUALITY
10
CHECKED

INITIAL: STEPDOWN

FROM

SSTAR/14.38 DME/RADAR

TO

ROZEE/11.24 DME/RADAR

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>				<u>HMAS</u>		
	3.14										
<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 (27-001294)	444205.00N/0930903.00W	1455	500	50	5D	1000				AT1545	4000
TERRAIN	444033.00N/0931403.00W	1085 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

NNEWW

TO

ROZEE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>			<u>HMAS</u>		
1.00	10.59										
<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 (27-001294)	444205.00N/0930903.00W	1455	500	50	5D	1000				AT1545	4000
TERRAIN	443324.00N/0931657.00W	1148 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE

FROM

ROZEE/11.24 DME/RADAR

TO

LORAH/8.10 DME/RADAR

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>			<u>HMAS</u>	
	3.14										
<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 (27-001294)	444205.00N/0930903.00W	1455	500	50	5D	500				AT1045	3000
TERRAIN	444506.00N/0931345.00W	1118 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: ILS

FROM

LORAH/I-BMA 8.10 DME/RADAR

TO

RW35

RNP

DISTANCE

PAT

MAP

HAT

HMAS

6.63

DA

200

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				1034

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LOC

FROM

LORAH/8.10 DME/RADAR

TO

HUCUM/3.77 DME/RADAR

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>			<u>HMAS</u>	
	4.33										
<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	444600.00N/0931327.00W	1319	215	8	4B	250				XL32	1620

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LOC STEPDOWN

FROM

HUCUM/3.77 DME/RADAR

TO

6.63 NM AFTER LORAH/8.10 DME/RADAR OR AT I-BMA 1.47 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
	2.30		6.63 NM AFTER LORAH/8.10 DME/RADAR OR AT I-BMA 1.47 DME				346				
<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>
BUILDING (27-023922)	445134.39N/0931353.29W	918	20	3	1A	250					1180

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: ILS SA CAT I

FROM

LORAH/8.10 DME/RADAR

TO

RW35

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
	6.63		DA				150				
<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				984

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: ILS CAT II

FROM

LORAH/I-BMA 8.10 DME/RADAR

TO

RW35

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
	6.63		DA				110				
<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				944

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: ILS

FROM

DA

TO

LYDIA INT/GEP 32.57 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
							866				
<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				3000
BUILDING (27-000387)	445834.00N/0931621.00W	1743	100	20	3C	1000					2800
TERRAIN	445509.00N/0932800.00W	1128 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LOC

FROM

6.63 NM AFTER LORAH/8.10 DME/RADAR OR AT I-BMA 1.47 DME

TO

LYDIA INT/GEP 32.57 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
							930				
<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				3000
BUILDING (27-000387)	445834.00N/0931621.00W	1743	100	20	3C	1000					2800
TERRAIN	445509.00N/0932800.00W	1128 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: ILS SA CAT I

FROM

DA

TO

LYDIA INT/GEP 32.57 DME

RNP	DISTANCE	PAT	MAP				HAT	HMAS			
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
BUILDING (27-000387)	445834.00N/0931621.00W	1743	100	20	3C	1000					2800
TERRAIN	445509.00N/0932800.00W	1128 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: ILS CAT II

FROM

DA

TO

LYDIA INT/GEP 32.57 DME

RNP	DISTANCE	PAT	MAP				HAT	HMAS			
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
BUILDING (27-000387)	445834.00N/0931621.00W	1743	100	20	3C	1000					2800
TERRAIN	445509.00N/0932800.00W	1128 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH ALTERNATE: ILS

FROM

DA

TO

LYDIA INT/FGT 12.80 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u> 866				
<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				3000
BUILDING (27-000387)	445834.00N/0931621.00W	1743	100	20	3C	1000					2800
TERRAIN	443339.00N/0931915.00W	1227 (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 ALTERNATE: LOC

FROM

6.63 NM AFTER LORAH/8.10 DME/RADAR OR AT I-BMA 1.47 DME

TO

LYDIA INT/FGT 12.80 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
								930			
<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				3000
BUILDING (27-000387)	445834.00N/0931621.00W	1743	100	20	3C	1000					2800
TERRAIN	443339.00N/0931915.00W	1227 (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 ALTERNATE: ILS SA CAT I

FROM

DA

TO

LYDIA INT/FGT 12.80 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>
							ASC				3000
BUILDING (27-000387)	445834.00N/0931621.00W	1743	100	20	3C	1000					2800
TERRAIN	443339.00N/0931915.00W	1227 (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 ALTERNATE: ILS CAT II

FROM

DA

TO

LYDIA INT/FGT 12.80 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>
							ASC				3000
BUILDING (27-000387)	445834.00N/0931621.00W	1743	100	20	3C	1000					2800
TERRAIN	443339.00N/0931915.00W	1227 (1200)								AS1500	2700

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											
BUILDING (27-000367)	445120.51N/0931334.62W	1.30	518	1043	20	3	1A	300			1360
CATEGORY B											
TREE	445318.00N/0930912.00W	1.83	518	1052	215	8	4B	300			1360
CATEGORY C											
BUILDING (27-001379)	445503.51N/0930959.71W	2.89	618	1158	20	3	1A	300			1460
CATEGORY D											
STACK (27-000479)	444838.57N/0931456.60W	3.77	778	1307	20	10	1B	300			1620

CIRCLING REMARKS:

MSA

CENTER
GEP VORTAC

RADIUS
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (27-000857)	452259.60N/0934230.90W	309	20.1	2454	20	3	1A	1000			3500

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



CAT
1

TCH
70.7



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.
100FT VEGETATION USED PER FPT.
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	3.81
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.04
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	349.53
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1100
DISTANCE FROM	THLD	TO 1500FT POINT	5.83
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.48
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	349.53
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1100

THRESHOLD COORDINATES (IF STR-IN)	445158.24N/0931411.92W
ARP COORDINATES	445255.10N/0931318.40W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 30R DISTANCE 1.19 NM
FAF COORDINATES	444527.03N/0931230.46W
FIX NAME COORDINATES	

REMARKS

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
CASIMIR L. TABAKA (SILVIA YOUNG)	AJV-A432	05/19/2025	AERONAUTICAL INFORMATION SPECIALIST

