

**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.

<b><u>AIRPORT ID</u></b> PHG	<b><u>PROCEDURE NAME</u></b> RNAV (GPS) RWY 13	<b><u>ORIGINAL/AMENDMENT</u></b> 3	<b><u>CITY</u></b> PHILLIPSBURG	<b><u>STATE</u></b> KS
<b><u>AIRPORT ELEVATION</u></b> 1910	<b><u>TDZE</u></b> 1910	<b><u>SUPERSEDED</u></b> RNAV (GPS) RWY 13	<b><u>DATED</u></b> 01/30/2020	<b><u>MAG VAR</u></b> 5E
<b><u>FACILITY</u></b> RNAV	<b><u>COORDINATES OF FACILITIES</u></b>	<b><u>ORIGINAL/AMENDMENT</u></b> 2A	<b><u>REQUIRED EFFECTIVE DATE</u></b> ROUTINE	<b><u>EPOCH YEAR</u></b> 2020
		<b><u>ACTUAL EFFECTIVE DATE</u></b> 5 SEPTEMBER 2024	<b><u>CANCEL/SUSPEND</u></b>	

**TAA**

<b><u>FROM</u></b>	<b><u>FIX TYPE</u></b>	<b><u>TO</u></b>	<b><u>FIX TYPE</u></b>	<b><u>ALTITUDE</u></b>
1. 048/30 CW 228/30	NOPT	048/12 CW 228/12		4500
2. 048/12 CW 228/12		BOLVE	IF/IAF	4000
3. 228/30 CW 048/30		BOLVE	IF/IAF	4000

**TERMINAL ROUTES**

<b><u>FROM</u></b>	<b><u>FIX TYPE</u></b>	<b><u>TO</u></b>	<b><u>FIX TYPE</u></b>	<b><u>LEG TYPE</u></b>	<b><u>FO/FB</u></b>	<b><u>RNP</u></b>	<b><u>COURSE</u></b>	<b><u>DISTANCE</u></b>	<b><u>ALTITUDE</u></b>
BOLVE	IF/IAF	AMEGE		TF	FB	1.00	137.63	6.66	4000
AMEGE	FAF	VEBBU/2.42 NM TO RW13		TF	FB	0.30	137.69	4.02	
VEBBU/2.42 NM TO RW13		RW13	MAP	TF	FO	0.30	137.69	2.42	
RW13	MAP	2160 MSL		CA			137.69		
2160 MSL		BANRE		DF	FO	1.00			4000

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW13

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 4000 DIRECT BANRE AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



**PROFILE:**

- |   |                       |                                   |                       |                              |                      |                               |  |            |  |
|---|-----------------------|-----------------------------------|-----------------------|------------------------------|----------------------|-------------------------------|--|------------|--|
| 1. <b>PT</b>  | <b>SIDE OF COURSE</b> | <b>OUTBOUND</b>                   | <b>FT WITHIN</b>      | <b>MILES OF</b>              | <b>(IAF)</b>         |                               |  |            |  |
| 2. HOLD NW BOLVE, RT, 137.63 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 6000. |                       |                                   |                       |                              |                      |                               |  |            |  |
| 3. <b>FAC:</b> 137.69   |                       | <b>FAF:</b> AMEGE                 |                       | <b>DIST FAF TO MAP:</b> 6.44 |                      | <b>DIST FAF TO THLD:</b> 6.44 |  |            |  |
| 4. <b>MIN ALT:</b> BOLVE 4000, AMEGE 4000, VEBBU/2.42 NM TO RW13 2720         |                       |                                   |                       |                              |                      |                               |  |            |  |
| 5. <b>DIST TO THLD FROM OM:</b>   |                       | <b>MM:</b>                        | <b>IM:</b>            | <b>150 HAT:</b>              | <b>250 HAT:</b> 0.66 | <b>GS ANT:</b>                |  |            |  |
| 6. <b>MIN GP INCPT:</b> 4000  |                       | <b>GP ALT AT PFAF:</b> AMEGE 4000 |                       |                              | <b>OM:</b>           | <b>MM:</b>                    |  | <b>IM:</b> |  |
| 7. <b>GP ANGLE:</b> 3.00  |                       | <b>34:1:</b> IS NOT CLEAR         | <b>20:1:</b> IS CLEAR | <b>TCH:</b> 39.7             |                      |                               |  |            |  |
| 8. <b>MSA FROM:</b>   |                       |                                   |                       |                              |                      |                               |  |            |  |

**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

**NOTES:**

CHART NOTE: RWY 13 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
 CHART NOTE: CIRCLING NA NE OF RWY 13-31.  
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18°C OR ABOVE 54°C.  
 CHART NOTE: CIRCLING NA TO RWYS 3 AND 21.  
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING HYS ALTIMETER SETTING.  
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HYS ALTIMETER SETTING AND INCREASE LPV DA TO 2296 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE LNAV/VNAV DA TO 2497 FEET AND ALL VISIBILITIES 3/8 SM. INCREASE ALL MDAS 140 FEET AND LNAV VISIBILITY CAT C 3/8 SM, AND CIRCLING VISIBILITY CAT C 1/4 SM.

**ADDITIONAL FLIGHT DATA:**

HOLD SE, RT, 317.85 INBOUND.  
 CHART FAS OBST: 2071 TANK (20-029848) 394552N/0991944W.  
 CHART VDP AT 1.22 NM TO RW13.  
 WAAS CHANNEL # 97538  
 REFERENCE PATH ID: W13A  
 CHART CIRCLING ICON.  
 LTP HAE: 556.6 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												
LPV DA	2160	1	250	2160	1	250	2160	1	250		NA					
LNAV/VNAV DA	2361	1 3/8	451	2361	1 3/8	451	2361	1 3/8	451		NA					
LNAV MDA	2340	1	430	2340	1	430	2340	1 1/4	430		NA					
CIRCLING	2340	1	430	2360	1	450	2380	1 1/2	470		NA					



**CHANGES - REASONS**

1. AIRPORT ELEVATION AND TDZE CHANGED FROM "1907" TO "1910" - NEW THRESHOLD LOCATION PER AIRNAV DATA.
2. TERMINAL ROUTES: BOLVE TO AMEGE DISTANCE CHANGED FROM "7.10" TO "6.66" AND ALTITUDE CHANGED FROM "3900" TO "4000" - NEW PFAF LOCATION AND IAW IFP CHECKLIST.
3. TERMINAL ROUTES: CHANGED FROM "AMEGE TO VEBBU/2.40NM TO RW13" TO "AMEGE TO VEBBU/2.42 NM TO RW13" AND DISTANCE CHANGED FROM "3.70" TO "4.02" - NEW PFAF AND STEPDOWN LOCATION.
4. TERMINAL ROUTES: CHANGED FROM "VEBBU/2.40 NM TO RW13 TO RW13" TO "VEBBU/2.42 NM TO RW13 TO RW13" AND DISTANCE CHANGED FROM "2.40" TO "2.42" - NEW STEPDOWN LOCATION TO RETAIN PREVIOUS MINIMUMS.
5. TERMINAL ROUTES: CHANGED FROM "RW13 TO 2157 MSL" TO "RW13 TO 2160 MSL" - NEW EVALUATION AND IAW 8260.19J.
6. TERMINAL ROUTES: CHANGED FROM "2157 MSL TO BANRE" TO "2160 MSL TO BANRE" - IAW 8260.58C & LPV DA CHANGED FROM 2157 TO 2160.
7. PROFILE LINE 2: ADDED "MAX 6000" - IAW 8260.19J.
8. PROFILE LINE 3: DIST FAF TO MAP CHANGED FROM "6.10" TO "6.44" AND DIST FAF TO THLD CHANGED FROM "6.10" TO "6.44" - NEW FAF LOCATION AND IAW 8260.19J.
9. PROFILE LINE 4: CHANGED FROM "AMEGE 3900, VEBBU/2.40 NM TO RW13 2720\*" TO "AMEGE 4000, VEBBU/2.42 NM TO RW13 2720" - ASTERISK NO LONGER REQUIRED, AMEGE ALTITUDE INCREASED PER IFP CHECKLIST AND STEPDOWN LOCATION CHANGED.
10. PROFILE LINE 5: CHANGED 250 HAT FROM "0.63" TO "0.66" - IAW 8260.19J.
11. PROFILE LINE 6: MIN GP INCPT CHANGED FROM "3900" TO "4000" AND GP ALT AT PFAF CHANGED FROM "AMEGE 3900" TO "AMEGE 4000" - ALTITUDE INCREASED PER IFP CHECKLIST.
12. PROFILE LINE 7: ADDED "20:1 IS CLEAR" - NO 20:1 PENETRATIONS AND IAW 8260.19J.
13. PROFILE LINE 7: TCH CHANGED FROM "50.0" TO "39.7" - PER IFP CHECKLIST TO MATCH VGSI ANGLE/TCH.
14. PBN REQUIREMENTS NOTES: CHANGED FROM "RNP APCH" TO "RNP APCH - GPS" - IAW 8260.19J.
15. NOTES: CHANGED FROM "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HAYS RGNL ALTIMETER SETTING AND INCREASE ALL DA AND MDA 140 FT; INCREASE LPV VISIBILITY 1/4 MILE ALL CATS AND LNAV/VNAV VISIBILITY 1/2 MILE ALL CATS; INCREASE LNAV CAT C VISIBILITY 3/8 MILE AND CIRCLING CAT C VISIBILITY 1/4 MILE" TO "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HYS ALTIMETER SETTING AND INCREASE LPV DA TO 2296 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE LNAV/VNAV DA TO 2497 FEET AND ALL VISIBILITIES 3/8 SM. INCREASE ALL MDAS 140 FEET AND LNAV VISIBILITY CAT C 3/8 SM, AND CIRCLING VISIBILITY CAT C 1/4 SM - NEW MINIMUMS AND IAW 8260.19J.
16. ADDITIONAL FLIGHT DATA: UPDATED FAS OBSTACLE FROM "2071 TWR 394552N/0991944W" TO "2071 TANK (20-029848) 394552N/0991944W" - IAW 8260.19J AND UPDATED OBSTACLE ID.
17. ADDITIONAL FLIGHT DATA: VDP CHANGED FROM "1.20 NM TO RW13" TO "1.22 NM TO RW13" - IAW 8260.3E AND TCH CHANGE.
18. ADDITIONAL FLIGHT DATA: LTP HAE CHANGED FROM "555.8 M" TO "556.6 M" - NEW THRESHOLD LOCATION PER AIRNAV DATA.
19. MINIMUMS: LPV DA CHANGED FROM "2157" TO "2160" - TDZE CHANGED FROM 1907 TO 1910 PER AIRNAV DATA.
20. MINIMUMS: LNAV/VNAV DA CHANGED FROM "2358" TO "2361" AND VISIBILITY CHANGED FROM "1 1/2" TO "1 3/8" - TDZE CHANGED FROM 1907 TO 1910 PER AIRNAV DATA AND IAW 8260.3E.
21. MINIMUMS: LNAV MDA HAT CHANGED FROM "433" TO "430" - TDZE CHANGED FROM 1907 TO 1910 PER AIRNAV DATA.
22. MINIMUMS: CIRCLING HAT CAT A CHANGED FROM "433" TO "430" CAT B "453" TO "450" CAT C "473" TO "470" - TDZE CHANGED FROM 1907 TO 1910 PER AIRNAV DATA.
23. FAS DATA: LPT/FTP COORDINATES CHANGED FROM "394422.8895N/0991915.5300W" TO "394427.5860N/0991920.1575W", LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM "+05558" TO "+05566", FPAP COORDINATES CHANGED FROM "394311.9120N/0991805.6200W" TO "394316.6070N/0991810.2475W", TCH CHANGED FROM "00050.0" TO "00039.7", LENGTH OFFSET CHANGED FROM "1376" TO "1192", AND CRC REMAINDER CHANGED FROM "456CFF9A" TO "823CF5DB" - UPDATED AIRNAV DATA FOR FIELD ELEVATION, THRESHOLD LOCATION AND UPDATED PROCEDURE DESIGN.

**COORDINATED WITH:**

A4A  
  ALPA  
  AOPA  
  APA  
  HAI  
  NBAA  
 OTHER: ZDV

**FLIGHT CHECKED BY**

PAUL A GOSDEN

*Digitally signed by*

**RAKE MCGRAW**

Jul 11, 2024

**OFFICE**

FPO

**DATE**

07/10/2024

**DEVELOPED BY**

BRITNEY ARMENTROUT

*Digitally signed by*

**BRITNEY ARMENTROUT**

May 30, 2024

**OFFICE**

AJV-A422

**DATE**

05/30/2024

**APPROVED BY**

RAKE MCGRAW

*Digitally signed by*

**RAKE MCGRAW**

Jul 11, 2024

**OFFICE**

AJV-A422

**DATE**

**TITLE  
MANAGER**



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KPHG
RUNWAY	RW13
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	394427.5860N
LTP/FTP LONGITUDE	0991920.1575W
LTP/FTP ELLIPSOIDAL HEIGHT	+05566
FPAP LATITUDE	394316.6070N
FPAP LONGITUDE	0991810.2475W
THRESHOLD CROSSING HEIGHT (TCH)	00039.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1192
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER 823CF5DB

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+05820
FPAP ORTHOMETRIC HEIGHT	+05820

