

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</u> STAFFORD RGNL	<u>AIRPORT ID</u> KRMN	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 33	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> STAFFORD	<u>STATE</u> VA
<u>AIRPORT ELEVATION</u> 211	<u>TDZE</u> 195	<u>SUPERSEDED</u> RNAV (GPS) RWY 33	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 09/30/2004	<u>MAG VAR</u> 10W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2000

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>
ZUNAR		GRUBY		TF	FB	2.00	322.42	10.58	3000
PEGBY		GRUBY		TF	FB	2.00	019.37	7.87	3000
GRUBY	IAF	RISVE		TF	FB	1.00	301.89	5.73	3000
RISVE	IF	CODAC		TF	FB	1.00	329.26	6.30	2000
CODAC	FAF	JAVIK/2.40 NM TO RW33		TF	FB	0.30	329.21	3.11	
JAVIK/2.40 NM TO RW33		RW33	MAP	TF	FO	0.30	329.21	2.40	
RW33	MAP	450 MSL		CA			329.21		
450 MSL		KOBEC		DF	FB	1.00			
KOBEC		TECOV		TF	FB	1.00	209.16	8.50	
TECOV		FALKO		TF	FO	1.00	151.39	12.75	4000

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW33

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT KOBEC AND LEFT TURN ON TRACK 209.16 TO TECOV AND LEFT TURN ON TRACK 151.39 TO FALKO AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)
2. PROFILE STARTS AT RISVE
3. FAC: 329.21

FAF: CODAC

DIST FAF TO MAP: 5.51

DIST FAF TO THLD: 5.51
4. MIN ALT: RISVE 3000, CODAC 2000, JAVIK/2.40 NM TO RW33 980*
5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

255 HAT: 0.72

GS ANT:
6. MIN GP INCPT: 2000

GP ALT AT FAF : CODAC 2000

OM:

MM:

IM:
7. GP ANGLE: 3.05

34:1: IS CLEAR

20:1: IS CLEAR

TCH: 45.6
8. MSA FROM: RW33 2500

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C OR ABOVE 54C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GRUBY ON V286 SOUTHEAST BOUND AND V376 SOUTHBOUND.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

CHART DEMO MOA, HILL MOA, R-6601
CHART R-6612, R-6611A
CHART VDP AT 1.51 NM TO RW33*
*LNAV ONLY
WAAS CHANNEL #81805
REFERENCE PATH ID: W33A
CHART FAS OBST: 412 TOWER 382246N/0772507W.
HOLD SW, LT, 030.85 INBOUND
LTP HAE: 19.8 M

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	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	450	3/4	255	450	3/4	255	450	3/4	255	450	1	255			
LNAV/VNAV DA	546	3/4	351	546	3/4	351	546	3/4	351	546	1	351			
LNAV MDA	700	3/4	505	700	3/4	505	700	1 1/2	505	700	1 1/2	505			
CIRCLING	720	1	509	740	1	529	840	1 3/4	629	880	2	669			



CHANGES - REASONS

- 1. DELETED CHART NOTE; DME/DME RNP-0.3 NA - IAW 8260.19H 8-6-8 (B(1)) PBN NAVSPEC.
- 2. DELETED CHART NOTE; IF LOCAL ALTIMETER SETTING NOT RECEIVED, USE SHANNON, FREDERICKSBURG, VA ALTIMETER SETTING AND INCREASE ALL DAS/MDAS 40 FEET. - NOTE MOVED TO BACK OF -9 AND MADE CONTINGENCY REMOTE ALTIMETER NOTE.
- 3. DELETED CHART NOTE; VDP AND BARO-VNAV NA WHEN USING SHANNON, FREDERICKSBURG, VA ALTIMETER SETTING - NOTE MOVED TO BACK OF -9 AND MADE CONTINGENCY REMOTE ALTIMETER NOTE.
- 4. DELETED CHART NOTE; INOPERATIVE TABLE DOES NOT APPLY TO LNAV CAT C - NEW VIS-CHECK WORKSHEET INCORPORATES INOPERATIVE TABLE.
- 5. CHANGED CHART NOTE FROM "BARO/VNAV NA BELOW -15C (5F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -15C OR ABOVE 54C" - NEW REPORTS FORMAT ELIMINATED FAHRENHEIT VALUES.
- 6. CHANGED LNAV/VNAV MDA/HAT FROM "460/264" TO "546/351" - CONTROLLING OBSTACLE UPDATED FROM "196 FOOT ROAD" TO "361 FOOT TOWER".
- 7. CHANGED LPV HAT FROM "254" TO "255" - THRESHOLD ELEVATION CHANGED FROM "196" TO "195.2".
- 8. CHANGED LNAV HAT FROM "504" TO "505" - THRESHOLD ELEVATION CHANGED FROM "196" TO "195.2".
- 9. CHANGED VDP LOCATION FROM "1.52 NM " TO "1.51 NM" - UPDATED LOCATION FOUND DURING PROCEDURE AMENDMENT.
- 10. DESCENT ANGLE CHANGED FROM "3.00" TO "3.05" - WITH CURRENT LOCATION OF FAF, ANGLE INCREASED 0.05 DEGREES.
- 11. CHANGED INTERMEDIATE RNP FROM "0.50" TO "1.00" - UPDATED TO 8260.58A CHANGE 1 TABLE 1-2-1.
- 12. ADDED 20:1 CLEAR TO LINE 7 - IAW 8260.19H 8-6-7 (G(3)) FOR DOCUMENTING CLEAR SLOPES FOR RNAV PROCEDURE.
- 13. ADDED PBN REQUIREMENTS NOTE: RNP APCH - IAW 8260.19H 8-6-8 (B(1)) PBN NAVSPEC.
- 14. ADDED CHART NOTE; FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO 1 3/8 SM - INCREASE NOTED BY UPDATED VIS-CHECK WORKSHEET.
- 15. CHANGED FAS OBST FROM "400 TOWER 382246.90N/0772508.10W" TO "412 TOWER 382246N/0772507W" - NEW CONTROLLING OBSTACLE.
- 16. DELETED FAS OBST; 196 ROAD 382319.29N/772643.08W - OBSTACLE NO LONGER CONTROLLING OBSTACLE.
- 17. CHANGED "DISTANCE TO THLD FROM 254 HAT: 0.73 NM" TO "DISTANCE TO THLD 255 HAT: 0.72 NM" - CHANGED DUE TO ONE FOOT INCREASE IN HAT.
- 18. CHANGED CRC REMAINDER FROM "FFC0265D" TO "68CC6159" - LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM "+00200" TO "+00198" AND GLIDEPATH ANGLE CHANGED FROM "3.00" TO "3.05".
- 19. ADDED CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS - PER VIS-CHECK TOOL.

NOTAM IFDC 8/7037 INCORPORATED INTO THIS AMENDMENT.

PDF EDIT 8/20/19: JAMES LAFFERTY, DELETED STATEMENT "ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED".



COORDINATED WITH:

A4A ☒ ALPA ☐ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZDC, NYG APP CON, PCT APP CON, A/P MGR, VA DOT

FLIGHT CHECKED BY

OFFICE DATE

DEVELOPED BY

JAMES LAFFERTY

Digitally signed by
JAMES LAFFERTY

OFFICE

AJV-5433

DATE

08/20/2018

APPROVED BY

PATRICK MULQUEEN

Sep 11, 2018

OFFICE

AJV-5430

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KRMN
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	382334.4600N
LTP/FTP LONGITUDE	0772659.1400W
LTP/FTP ELLIPSOIDAL HEIGHT	+00198
FPAP LATITUDE	382411.8500N
FPAP LONGITUDE	0772740.2200W
THRESHOLD CROSSING HEIGHT (TCH)	00045.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.05
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	68CC6159
ADDITIONAL PATH POINT RECORD INFORMATION	
ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00522
FPAP ORTHOMETRIC HEIGHT	+00522



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

<u>AIRPORT</u> STAFFORD RGNL	<u>AIRPORT ID</u> KRMN	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 33	<u>AMDT NO.</u> 1A	<u>CITY</u> STAFFORD	<u>STATE</u> VA	<u>AIRPORT ELEVATION</u> 211	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM ZUNAR TO GRUBY

RNP 10.58 DISTANCE PAT MAP HAT HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1.TOWER (47-1061)	381345.00N/0770709.00W	660	500	50	5D	1000				AT1340	3000
2.TERRAIN	381345.00N/0770703.00W	240 (200)								AS1500	1700

COMPUTATIONS

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

SEGMENT
REMARKS:

FEEDER

FROM PEGBY TO GRUBY

RNP 7.87 DISTANCE PAT MAP HAT HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1.TOWER (47-1061)	381345.00N/0770709.00W	660	500	50	5D	1000				AT1340	3000
2.TERRAIN	381345.00N/0770703.00W	240 (200)								AS1500	1700

COMPUTATIONS

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

SEGMENT
REMARKS:



INITIAL

FROM

GRUBY

TO

RISVE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
	5.73										
<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>
3.TOWER (47-0930)	381409.00N/0770917.00W	640	500	50	5D	1000				AT1360	3000
4.TERRAIN	381606.00N/0771124.00W	220 (200)								AS1500	1700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:

INTERMEDIATE: LNAV

FROM

RISVE

TO

CODAC

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
	6.30										
<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>
5.STACK (47-1274)	381559.00N/0771853.00W	502	500	50	5D	500				AT998	2000
6.TERRAIN	381903.00N/0772209.00W	230 (200)								AS1000	1200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:



RNAV

RW33

HMAS

255

RF CENTER FIX/DISTANCE

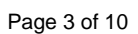
RW33

HMAS

351

RF CENTER FIX/DISTANCE

REMARKS:



MISSED APPROACH : LPV

FROM

DA

TO

FALKO

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							238				
<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
10.TOWER (47-1570)	381631.00N/0773233.00W	799	250	50	4D	1000					1800
11.TERRAIN	381730.00N/0773418.00W	384 (400)								AS1500	1900

MISSED APPROACH : LNAV

FROM

RW33

TO

FALKO

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							600				
<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
10.TOWER (47-1570)	381631.00N/0773233.00W	799	250	50	4D	1000					1800
11.TERRAIN	381730.00N/0773418.00W	384 (400)								AS1500	1900

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											
12.TREE (51-023428)	382520.11N/0772806.55W	1.30	509	389	20	10	2B	300		XP31	720
CATEGORY B											
13.TREE (51-023397)	382516.28N/0772854.02W	1.50	529	405	20	10	1B	300		XP35	740
CATEGORY C											
14.TOWER (51-006094)	382519.16N/0772900.14W	1.70	629	467	20	3	1A	300		XP73	840
CATEGORY D											
15.TOWER (51-001135)	382446.13N/0772515.70W	2.30	669	515	20	3	1A	300		XP65	880

CIRCLING REMARKS:

OLD CIRCLING DIMENSIONS USED IN PROCEDURE AMENDMENT

XP: ADJUSTMENT ADDED TO CIRCLING CAT A MDA TO MAINTAIN CURRENT MINIMA

XP: ADJUSTMENT ADDED TO CIRCLING CAT B MDA TO MAINTAIN CURRENT MINIMA

XP: ADJUSTMENT ADDED TO CIRCLING CAT C MDA TO MAINTAIN CURRENT MINIMA

XP: ADJUSTMENT ADDED TO CIRCLING CAT D MDA TO MAINTAIN CURRENT MINIMA



MSA

CENTER	RADIUS
RW33	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (47-0197)		269	25.5	1462	20	3	1A	1000			2500

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZDC ARTCC, PCT APP CON, NYG APP CON, DCA FSS

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
AWOS	KRMN	24	KRMN	0	Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
AWOS	KEZF	24	KEZF	7.92	Y	36

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KRMN 211.20, KEZF 85.00
RA = 35.86.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
APPROACH AND RUNWAY LIGHTING SYSTEM		RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW15 - HIRL (PCL), REIL (PCL), PAPI-4L		NPI-F	
RW33 - MALS, HIRL (PCL), REIL (PCL), PAPI-4L		PIR-F	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.05	171.2	45.6			3.00	45.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	X	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	X	FT FROM CENTERLINE	



<u>AIRPORT</u>	<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>
STAFFORD RGNL	KRMN	RNAV (GPS) RWY 33	1A	STAFFORD	VA	211	RNAV

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
-15C	+54C	-15C	+14.58C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 972 HIGH TEMP 1116.

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
TAA NOT USED, ATC REQUEST.

ALTITUDES AT ALL FIXES ARE ATC REQUIREMENTS.

100 FOOT VEGETATION USED IN PROCEDURE AMENDMENT.

CONTINGENCY REMOTE ALTIMETER NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SHANNON, FREDERICKSBURG, VA ALTIMETER SETTING AND INCREASE LPV DA TO 486 FEET, INCREASE LNAV/VNAV DA TO 582 FEET, INCREASE ALL MDA 40 FEET. INCREASE LNAV/VNAV CATS A/B/C VISIBILITY 1/8 SM AND CIRCLING CAT D VISIBILITY 1/4 SM.

CONTINGENCY REMOTE ALTIMETER NOTE: BARO-VNAV AND VDP NA WHEN USING SHANNON , FREDERICKSBURG, VA ALTIMETER SETTING.

FOR INOPERATIVE ALS WHEN USING SHANNON, FREDERICKSBURG, VA ALTIMETER SETTING, INCREASE LPV CATS A/B/C VISIBILITY 1/8 SM.



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	3.08
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.61
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	319.21
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	247
DISTANCE FROM	THLD	TO 1500FT POINT	4.65
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.89
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	319.21
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	247

THRESHOLD
COORDINATES
(IF STR-IN)382334.45N/0772659.14W

ARP COORDINATES382353.20N/0772719.70W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP RUNWAY 33 DISTANCE 0.41 NM

FAF
COORDINATES381924.08N/0772224.50W

FIX NAME
COORDINATES

REMARKS
NO ADDITIONAL AIRSPACE REQUIRED.



<u>AIRPORT</u>	<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>
STAFFORD RGNL	KRMN	RNAV (GPS) RWY 33	1A	STAFFORD	VA	211	RNAV

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
JAMES LAFFERTY	AJV-5433	08/20/2018	AERONAUTICAL INFORMATION SPECIALIST

