

**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> O27	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 10	<u>ORIGINAL/AMENDMENT</u> 2A	<u>CITY</u> OAKDALE	<u>STATE</u> CA		
<u>AIRPORT ELEVATION</u> 237	<u>TDZE</u> 236	<u>SUPERSEDED</u> RNAV (GPS) RWY 10	<u>ORIGINAL/AMENDMENT</u> 2	<u>DATED</u> 06/22/2017	<u>MAG VAR</u> 15E	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> RNAV	<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>
MOD VOR/DME		MOTER		TF	FO	1.00	331.91	10.63	2000
MOTER	IF/IAF	ZOSON		TF	FB	1.00	084.19	5.55	1700
ZOSON	FAF	RW10	MAP	TF	FO	0.30	096.39	4.51	
RW10	MAP	554 MSL		CA			096.39		
554 MSL		NOMAE		DF	FB	1.00			
NOMAE		AWALI		TF	FO	1.00	114.15	9.21	4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW10

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT NOMAE AND ON TRACK 114.15 TO AWALI AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD W MOTER, RT, 084.19 INBOUND, 2000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 096.39FAF: ZOSONDIST FAF TO MAP: 4.51DIST FAF TO THLD: 4.51

4. MIN ALT: MOTER 2000, ZOSON 1700

5. DIST TO THLD FROM OM:MM:IM:150 HAT:318 HAT: 0.91GS ANT:

6. MIN GP INCPT: 1700GP ALT AT FAF : ZOSON 1700OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 40.0

8. MSA FROM: RW10 5100

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: BARO-VNAV NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MOD VOR/DME ON V113 SOUTHBOUND.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: USE MODESTO ALTIMETER SETTING; WHEN NOT RECEIVED, USE STOCKTON METRO ALTIMETER SETTING: INCREASE LPV DA TO 627 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 588 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 40 FEET AND LNAV CAT C VISIBILITY 1/8 SM.

ADDITIONAL FLIGHT DATA:

CHART 471 TOWER 374751N/1205305W
CHART MODESTO CITYCOUNTY-HARRY SHAM FLD ASOS
HOLD NW, RT, 126.12 INBOUND.
FAS OBST: 400 AAO 374638N/1205013W.
WAAS CHANNEL # 42524
REFERENCE PATH ID: W10A
CHART CIRCLING ICON.
LTP HAE: 37 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	593	1	357	593	1	357	593	1	357		NA				
LNAV/VNAV DA	554	7/8	318	554	7/8	318	554	7/8	318		NA				
LNAV MDA	760	1	524	760	1	524	760	1 1/2	524		NA				
CIRCLING	760	1	523	820	1	583	920	2	683		NA				



CHANGES - REASONS

1. UPDATED TDZE FROM 237 TO 236 PER PENDING AIRNAV DATA CHART DATE 6/17/2021.
2. UPDATED EQUIPMENT REQUIREMENTS NOTE FROM DME/DME RNP-0.3 NA TO RNP APCH - GPS PER 8260.19 PARA 8-6-8.
3. UPDATED BACKUP ALTIMETER SETTING NOTE FROM "USE MODESTO ALTIMETER SETTING; WHEN NOT RECEIVED, USE STOCKTON ALTIMETER SETTING AND INCREASE ALL DA 36 FT AND ALL MDA 40 FT; INCREASE LPV AND LNAV/VNAV ALL CATS AND LNAV CAT C VISIBILITY 1/8 SM" TO "USE MODESTO ALTIMETER SETTING; WHEN NOT RECEIVED, USE STOCKTON ALTIMETER SETTING: INCREASE LPV DA TO 627 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 588 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 40 FEET AND LNAV CAT C VISIBILITY 1/8 SM" PER 8260.19 PARA 8-6-9.
4. RAISED LPV DA/HAT FROM 531/294 TO 593/357 DUE TO A NEW MISSED APPROACH OBSTACLE.
5. CRC REMAINDER CHANGED FROM 28C38891 TO 20B1C9DA DUE TO FPAP LAT/LONG CHANGED.
6. ADDED PROCEDURE NA NOTE AT MOD VOR/DME - TURN EXCEEDS 90 DEGREES.
7. LNAV/VNAV DA CHANGED FROM 555 TO 554 DUE TO TDZE CHANGE.
8. LNAV HAT CHANGED FROM 523 TO 524 DUE TO TDZE CHANGE.
9. UPDATED DIST TO THLD FROM HAT IN PROFILE FROM 294 HAT/0.84 TO 318 HAT/0.91 PER 8260.19 PARA 8-6-7.
10. NEW CONTROLLING OBSTACLES: LPV: 329 TRANSMISSION_LINE (06-235500) 374537.92N/1204905.43W (1A), LNAV/VNAV: 343 TREE (06-235670) 374457.13N/1204827.38W (1A),

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** NORCAL APP CON, AMGR

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-1000) MEMO, DATED JUNE 4, 2020,
SUBJECT: FLIGHT INSPECTION OF NEW CONTROLLING OBSTACLES

DEVELOPED BY

STEVEN DOUGHERTY

APPROVED BY

JULIE MORGAN

Digitally signed by
OFFICE **BEV L BORDY** **DATE**
Jul 15, 2021

Digitally signed by
OFFICE **BEV L BORDY** **DATE**
AJV-A411 05/21/2021
Jul 15, 2021

OFFICE **DATE**
AJV-A410 *Digitally signed by*
BEV L BORDY
Jul 15, 2021

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	O27
RUNWAY	RW10
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W10A
LTP/FTP LATITUDE	374528.2775N
LTP/FTP LONGITUDE	1204818.2090W
LTP/FTP ELLIPSOIDAL HEIGHT	+00370
FPAP LATITUDE	374455.6745N
FPAP LONGITUDE	1204633.6340W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1832
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	20B1C9DA

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00683
FPAP ORTHOMETRIC HEIGHT	+00683



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

<u>AIRPORT ID</u> O27	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 10	<u>AMDT NO.</u> 2A	<u>CITY</u> OAKDALE	<u>STATE</u> CA	<u>AIRPORT ELEVATION</u> 237	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM TO
MOD VOR/DME MOTER

<u>RNP</u>	<u>DISTANCE</u> 10.63	<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>
												TOWER (06-000126)	374123.00N/1205716.00W	364	250	50	4D	1000				AT636	2000
												2.TERRAIN	374624.00N/1205748.00W	142 (100)								AS1500	1600

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM TO
MOTER (IF/IAF) ZOSON

<u>RNP</u>	<u>DISTANCE</u> 5.55	<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>
												3.TOWER (06-001907)	374751.00N/1205305.00W	469	100	20	3C	500					1000
												4.TERRAIN	374809.00N/1205351.00W	184 (200)	250	125	4E					AS1500	1700

COMPUTATIONS

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

SEGMENT REMARKS:



FINAL: LPV

FROM

ZOSON

TO

RW10

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	4.51		DA		357							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.TRANSMISSION_LINE (06-235500)	374537.92N/1204905.43W		329	20	3	1A		34:1			RA46 MA61	593

COMPUTATIONS

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

FINAL: LNAV/VNAV

FROM

ZOSON

TO

RW10

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	4.51		DA		318							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
6.TREE (06-235670)	374457.13N/1204827.38W		343	20	3	1A	150				RA46 XP15	554

COMPUTATIONS

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

XP = MAINTAIN CURRENT MINIMUMS.



FINAL: LNAV

FROM

ZOSON

TO

RW10

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	4.51		RW10		524							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.AAO	374637.63N/1205012.87W		400	50	20	2C	250				RA46 XP64	760

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

XP = MAINTAIN CURRENT MINIMUMS
HOLD-IN-LIEU OF PT

FROM

MOTER

TO

P-4

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
		P-4										
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
8.TOWER (06-002381)	374345.74N/1210740.78W		559	100	20	3C	1000				AT441	2000
9.TERRAIN	374518.00N/1205454.00W		164 (200)								AS1500	1700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH : LPV

FROM

DA

TO

AWALI

RNP	DISTANCE	PAT	MAP	HAT			HMAS 328					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TRANSMISSION_LINE (06-235500)	374537.92N/1204905.43W		329	20	3	1A		ASC				4000
10.AAO	374457.39N/1204035.47W		600	50	20	2C	1000					1600
11.TERRAIN	374500.00N/1204036.00W		393 (400)								AS1500	1900

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

MISSED APPROACH : LNAV/VNAV

FROM

DA

TO

AWALI

RNP	DISTANCE	PAT	MAP	HAT			HMAS 343					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				4000
10.AAO	374457.39N/1204035.47W		600	50	20	2C	1000					1600
11.TERRAIN	374500.00N/1204036.00W		393 (400)								AS1500	1900

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



MISSED APPROACH : LNAV

FROM

RW10

TO

AWALI

RNP	DISTANCE	PAT	MAP	HAT			HMAS 554				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				4000
10.AAO	374457.39N/1204035.47W	600	50	20	2C	1000					1600
11.TERRAIN	374500.00N/1204036.00W	393 (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.TRANSMISSION_LINE (06-235634)	374430.37N/1204815.21W	1.30	523	392	20	10	1B	300		RA46 XP22	760
CATEGORY B											
12.TRANSMISSION_LINE (06-235634)	374430.37N/1204815.21W	1.81	583	392	20	10	1B	300		XP82 RA46	820
CATEGORY C											
14.AAO	374545.95N/1204448.10W	2.85	683	565	50	20	2C	300		RA46	920

CIRCLING REMARKS:

XP = MAINTAIN CURRENT MINS. XP = MAINTAIN CURRENT MINS



MSA

CENTER

RW10

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	380248.00N/1201957.00W	037	28.3	4088	164	98	4E	1000			5100

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

VDP PUBLISHED: NO: THE VDP IS NOT PUBLISHABLE DUE TO: REMOTE PRIMARY ALTIMETER.

INTERMEDIATE SEGMENT OFFSET 12.2 DEGREES PER FPO AND ATC REQUEST TO USE FIX MOTER.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZOA ARTCC, NORCAL APP CON, RIU FSS

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS	KMOD	24	KMOD	10.73	Y	46
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS	KSCK	24	KSCK	22.36	Y	80

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KO27 237, KMOD 87, KSCK 30
RA = 45.8
RA = 79.1

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW10 - MIRL (PCL), REIL, VASI-2L		NPI-G	
RW28 - MIRL (PCL), REIL, PAPI-2L		NPI-G	

<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	224	40.0			2.50	26.1

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>
-15C	+54C	-15C	+14.53C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 821 HIGH TEMP 1167.

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

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

PENETRATIONS REMARKS:
LPV AND LNAV.VNAV VGAS AREA PENETRATION: LIGHTING (06-235493) (0.96) DISREGARDED

PART C: GENERAL REMARKS:
VDP NOT ESTABLISHED - REMOTE PRIMARY ALTIMETER.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
VGSI DATA: 2.50/26.1
ORDER 8260.3 CHAPTER 2 APPLIED TO 471 TOWER 374751N/1205305W
NO ADDITIONAL AIRSPACE REQUIRED.
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	2.94
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	111.39
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	200
DISTANCE FROM	THLD	TO 1500FT POINT	4.51
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.13
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	111.39
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	200

THRESHOLD
COORDINATES
(IF STR-IN)374528.28N/1204818.21W

ARP COORDINATES374522.84N/1204800.75W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 10 DISTANCE 0.25 NM

FAF
COORDINATES374707.15N/1205335.83W

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED



PART E: PREPARED BY

<u>NAME</u> STEVEN DOUGHERTY	<u>OFFICE</u> AJV-A411	<u>DATE</u> 05/21/2021	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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