

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
HHERO	THREE	HHERO3.HHERO	TWO	10/12/2017	19JULY2018

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DP ROUTE DESCRIPTION:

JOHN WAYNE AIRPORT-ORANGE COUNTY:

TAKEOFF RWY 20R: CLIMB HEADING 195.92 TO INTERCEPT COURSE 175.00 TO CROSS STREL AT OR BELOW 5000, THEN ON TRACK 211.43 TO CROSS DOLLF AT OR BELOW 8000, THEN ON DEPICTED ROUTE TO HHERO, THENCE...

...(TRANSITION). MAINTAIN ALTITUDE ASSIGNED BY ATC. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
SHAFTER	HHERO3.EHF	HHERO	CMINO	TRACK 354.45	12.67	16000		+FL200
		CMINO	RIDDL	TRACK 347.94	16.20	16000		
		RIDDL	LANDO	TRACK 340.73	61.02	16000		
		LANDO	EHF VORTAC	TRACK 308.26	36.86	16000		
IKAYE	HHERO3.IKAYE	HHERO	FAYHE	TRACK 295.51	14.18	16000		+FL200
		FAYHE	IKAYE	TRACK 320.62	32.24	16000		
OROSZ	HHERO3.OROSZ	HHERO	CMINO	TRACK 354.45	12.67	16000		+FL200
		CMINO	RIDDL	TRACK 347.94	16.20	16000		
		RIDDL	TWINE	TRACK 325.10	20.01	16000		
		TWINE	OROSZ	TRACK 325.78	07.57	16000		

PROCEDURAL DATA NOTES:

- NOTE: RNAV-1
- NOTE: RADAR REQUIRED.
- NOTE: DME/DME/IRU OR GPS REQUIRED.
- NOTE: OROSZ AND SHAFTER TRANSITIONS: TURBOJET ONLY.
- NOTE: IKAYE TRANSITION: TURBOJET AND TURBOPROPS ONLY.

TAKEOFF MINIMUMS:

- RWY 2L, 2R, 20L: NA - AIR TRAFFIC.
- RWY 20R: STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 560.



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TAKEOFF OBSTACLES NOTES:

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

CONTROLLING OBSTACLES:

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KSNA 12E EPOCH YR: 2015.
DME/DME ASSESSMENT: SAT (RNP 2.0).
CHART: TOP ALTITUDE: ASSIGNED BY ATC.

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
JOHN WAYNE AIRPORT-ORANGE COUNTY (KSNA)	SANTA ANA	CA

COMMUNICATIONS:

ATIS, CLNC DEL, GND CON (EAST) (WEST), SOCAL DEP CON

FIXES AND/OR NAVAIDS:

MIKAA, SNYPR

REMARKS:

MOCAS NOT CHARTED PER ATC REQUEST.

FLIGHT INSPECTED BY:

THOMAS E MOLOKIE

Digitally signed by
ADOLFO D URRUTIA
Apr 25, 2018

OFFICE SYMBOL:
FICO

DATE:
4/23/18

DEVELOPED BY:

DAVID TEFFETELLER (KWEKU DONKOR)

Digitally signed by
ADOLFO D URRUTIA
Apr 25, 2018

OFFICE SYMBOL:
AJV-5433

DATE:
03/07/2018

APPROVED BY:

PATRICK MULQUEEN

Digitally signed by
ADOLFO D URRUTIA
Apr 25, 2018

OFFICE SYMBOL:
AJV-5430

DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE



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COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:

ZLA, SOCAL APP CON, SNA ATCT, AMGR

CHANGES - REASONS:

1. AMENDED IKAYE TRANSITION BY DELETING BRDYY WAYPOINT AND ADDING FAYHE WAYPOINT - ATC REQUEST TO INCREASE LATERAL SEPARATION FROM OPPOSITE DIRECTION KLGB, KSNA, AND KCRQ ARRIVALS.
2. TAKEOFF MINIMUMS UPDATE: CHANGE RWY 20R FROM "STANDARD WITH A MINIMUM CLIMB OF 320 FT PER NM TO 560" TO "STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 560" - DESIGNATED CLIMB GRADIENT PER RNAV PRO-RUN DME/DME ASSESSMENT TO REACH RNAV ENGAGEMENT ALTITUDE.



**FEDERAL AVIATION ADMINISTRATION
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DEPARTURE (DATA RECORD)**

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HHERO	THREE	HHERO3.HHERO	TWO	10/12/2017	19JULY2018				
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
RW20R (AER)	334053.93N/1175154.21W	N	-	-	-	-			
-	333839.96N/1175319.07W	-	-	VI	207.91	02.52			CG 500 FT PER NM TO 560
STREL	333417.50N/1175357.60W	Y	FB	CF	187.00	04.40	AT/BELOW 5000		REFERENCE: NAVAID: UTI VOR/DME
DOLLF	332850.09N/1180007.24W	Y	FB	TF	223.43	07.50	AT/BELOW 8000		
MIKAA	332434.71N/1180847.34W	Y	FB	TF	239.68	08.41			
SNYPR	332622.00N/1181800.10W	Y	FB	TF	283.08	07.91			
HHERO	333116.96N/1182916.38W	Y	FB	TF	297.55	10.63			
TRANSITIONS									
HHERO	333116.96N/1182916.38W	Y	-	IF	-	-			HHERO3.EHF
CMINO	334353.71N/1182734.01W	Y	FB	TF	006.45	12.67	AT/ABOVE FL200		
RIDDL	340007.30N/1182735.28W	Y	FB	TF	359.94	16.20			
LANDO	350044.74N/1183658.94W	Y	FB	TF	352.73	61.02			
EHF VORTAC	352904.40N/1190550.26W	Y	FB	TF	320.26	36.86			
HHERO	333116.96N/1182916.38W	Y	-	IF	-	-			HHERO3.IKAYE
FAYHE	333955.32N/1184244.97W	Y	FB	TF	307.51	14.18	AT/ABOVE FL200		
IKAYE	340835.00N/1190037.00W	Y	FB	TF	332.62	32.24			
HHERO	333116.96N/1182916.38W	Y	-	IF	-	-			HHERO3.ORSZ
CMINO	334353.71N/1182734.01W	Y	FB	TF	006.45	12.67	AT/ABOVE FL200		
RIDDL	340007.30N/1182735.28W	Y	FB	TF	359.94	16.20			



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TWINE	341834.90N/1183659.32W	Y	FB	TF	337.10	20.01			
OROSZ	342536.18N/1184027.01W	Y	FB	TF	337.78	07.57			

