

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

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KANAN	FOUR	KANA4.CC	THREE	09/15/2016	22 JUN 2017
<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 type="checkbox"/>	<input type="checkbox"/>

DP ROUTE DESCRIPTION:**RWY 1L/R:** CLIMBING LEFT TURN DIRECT CC LOM, THENCE...**RWY 14L/14R:** CLIMBING LEFT TURN DIRECT CC LOM, THENCE...**RWY 19L/19R:** CLIMBING LEFT TURN DIRECT CC LOM, THENCE...**RWY 32L/32R:** CLIMBING RIGHT TURN DIRECT CC LOM, THENCE...

...ON (TRANSITION) OR (ASSIGNED ROUTE).

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>
CROIT	KANA4.CROIT	CC LOM	CROIT INT	261.46 (CC BRG-261)	7.65	4000	3400	
LINDEN	KANA4.LIN	CC LOM	OAKEY INT	074.84 (CC BRG-075)	17.15	3700		
		OAKEY INT	LIN VOR/DME	071.26 (LIN R-251)	31.67	3700		
SABLO	KANA4.SABLO	CC LOM	SABLO INT	234.21 (CC BRG-234)	8.58	4000		
SACRAMENTO	KANA4.SAC	CC LOM	SIDMY INT	054.00 (CC BRG-054)	11.73	4000	3300	
		SIDMY INT	SAC VORTAC	014.99 (SAC R-195)	22.67	4000	1800	

PROCEDURAL DATA NOTES:**NOTE:** ADF REQUIRED.**TAKEOFF MINIMUMS:****RWY 1L/1R,** STANDARD WITH MINIMUM CLIMB OF 330 FT PER NM TO 1000.**RWY 14L/14R,** STANDARD WITH MINIMUM CLIMB OF 420 FT PER NM TO 2700.**RWY 19L/19R,** STANDARD WITH MINIMUM CLIMB OF 490 FT PER NM TO 3900.**RWY 32L/32R,** STANDARD WITH MINIMUM CLIMB OF 330 FT PER NM TO 1000.**TAKEOFF OBSTACLES NOTES:**

NOTE: RWY 1L, FENCE 116 FT FROM DER, 1 FT RIGHT OF CENTERLINE, 29 FT MSL. BUILDING 639 FT FROM DER, 381 FT RIGHT OF CENTERLINE, 25 FT AGL/48 FT MSL. VEGETATION 675 FT FROM DER, 96 FT LEFT OF CENTERLINE, 38 FT MSL. TREE AND POLES BEGINNING 1261 FT FROM DER, 19 FT RIGHT OF CENTERLINE, UP TO 78 FT MSL. FLAGPOLE 1520 FT FROM DER, 753 FT LEFT OF CENTERLINE, 71 FT MSL. TREE, CAMERA, AND GENERAL UTILITY BEGINNING 1860 FT FROM DER, 48 FT RIGHT OF CENTERLINE, UP TO 98 FT MSL. POLE 1906 FT FROM DER, 120 FT LEFT OF CENTERLINE, 51 FT AGL/72 FT MSL. SIGN 1996 FT FROM DER, 812 FT LEFT OF CENTERLINE, 78 FT MSL. TREE 2392 FT FROM DER, 8 FT LEFT OF CENTERLINE, 83 FT MSL.

QUALITY
4
CHECKED

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NOTE: RWY 1R, POLE 1551 FT FROM DER, 97 FT RIGHT OF CENTERLINE, 43 FT AGL/67 FT MSL. POLE 1864 FT FROM DER, 357 FT RIGHT OF CENTERLINE, 96 FT MSL. TREE 1927 FT FROM DER, 222 FT RIGHT OF CENTERLINE, 131 FT MSL. TREE 2110 FT FROM DER, 981 FT RIGHT OF CENTERLINE, 133 FT MSL.

NOTE: RWY 14L, VEHICLES ON ROAD AND FENCES BEGINNING 82 FT FROM DER, 29 FT LEFT OF CENTERLINE, UP TO 40 FT MSL. BUILDING AND TREES BEGINNING 731 FT FROM DER, 191 FT LEFT OF CENTERLINE, UP TO 51 FT MSL. TREES AND BUILDINGS BEGINNING 840 FT FROM DER, 93 FT LEFT OF CENTERLINE, UP TO 77 FT MSL. TREES, POLES, AND BUILDINGS BEGINNING 942 FT FROM DER, 13 FT LEFT OF CENTERLINE, UP TO 102 FT MSL. TREES, BUILDINGS, AND POLES BEGINNING 1116 FT FROM DER, 10 FT RIGHT OF CENTERLINE, UP TO 40 FT AGL/71 FT MSL. TREE 1465 FT FROM DER, 112 FT RIGHT OF CENTERLINE, 73 FT MSL. TREES BEGINNING 1496 FT FROM DER, 121 FT RIGHT OF CENTERLINE, UP TO 84 FT MSL. TREES BEGINNING 1648 FT FROM DER, 62 FT RIGHT OF CENTERLINE, UP TO 91 FT MSL. TREES AND BUILDING BEGINNING 1750 FT FROM DER, 30 FT LEFT OF CENTERLINE, UP TO 105 FT MSL. TREE 2570 FT FROM DER, 93 FT RIGHT OF CENTERLINE, 92 FT MSL. BUILDINGS BEGINNING 5413 FT FROM DER, 99 FT LEFT OF CENTERLINE, UP TO 177 FT MSL. BUILDING 5456 FT FROM DER, 138 FT LEFT OF CENTERLINE, 146 FT AGL/179 FT MSL.

NOTE: RWY 14R, WINDSOCK 411 FT FROM DER, 451 FT RIGHT OF CENTERLINE, 31 FT AGL/51 FT MSL. CONTROL TOWER 1140 FT FROM DER, 315 FT RIGHT OF CENTERLINE, 61 FT AGL/84 FT MSL. ELECTRICAL SYSTEM, TREE, POLE, AND ANTENNA BEGINNING 1140 FT FROM DER, 167 FT RIGHT OF CENTERLINE, UP TO 98 FT MSL. TREE 2744 FT FROM DER, 886 FT LEFT OF CENTERLINE, 102 FT MSL. BUILDING 3149 FT FROM DER, 946 FT RIGHT OF CENTERLINE, 92 FT AGL/125 FT MSL. BUILDINGS BEGINNING 3253 FT FROM DER, 846 FT RIGHT OF CENTERLINE, UP TO 103 FT AGL/136 FT MSL.

NOTE: RWY 19L, TREE 2132 FT FROM DER, 376 FT LEFT OF CENTERLINE, 90 FT MSL. TREE 2257 FT FROM DER, 27 FT LEFT OF CENTERLINE, 97 FT MSL. TREE 2543 FT FROM DER, 384 FT RIGHT OF CENTERLINE, 87 FT MSL. TREE 3111 FT FROM DER, 946 FT RIGHT OF CENTERLINE, 106 FT MSL.

NOTE: RWY 19R, TERRAIN 43 FT FROM DER, 397 FT LEFT OF CENTERLINE, 25 FT MSL. FENCE 123 FT FROM DER, 502 FT LEFT OF CENTERLINE, 30 FT MSL. TREE 603 FT FROM DER, 489 FT RIGHT OF CENTERLINE, 44 FT MSL. POLE AND TREES BEGINNING 844 FT FROM DER, 152 FT RIGHT OF CENTERLINE, UP TO 94 FT MSL. TREE 1023 FT FROM DER, 81 FT LEFT OF CENTERLINE, 59 FT MSL. POLE AND TREES BEGINNING 1201 FT FROM DER, 568 FT LEFT OF CENTERLINE, UP TO 77 FT MSL. BUILDING AND TREES BEGINNING 1275 FT FROM DER, 114 FT LEFT OF CENTERLINE, UP TO 97 FT MSL. TREE 2129 FT FROM DER, 447 FT RIGHT OF CENTERLINE, 106 FT MSL. TREE 2755 FT FROM DER, 216 FT LEFT OF CENTERLINE, 108 FT MSL.

NOTE: RWY 32L, BUILDING 7 FT FROM DER, 321 FT LEFT OF CENTERLINE, 18 FT AGL/35 FT MSL. VEHICLES ON ROAD AND HANGAR BEGINNING 259 FT FROM DER, 300 FT LEFT OF CENTERLINE, UP TO 37 FT MSL. VEHICLES ON ROAD BEGINNING 560 FT FROM DER, 3 FT RIGHT OF CENTERLINE, UP TO 34 FT MSL. VEHICLES ON ROAD 627 FT FROM DER, 609 FT LEFT OF CENTERLINE, 38 FT MSL. VEHICLES ON ROAD BEGINNING 631 FT FROM DER, 63 FT LEFT OF CENTERLINE, UP TO 38 FT MSL. BUILDING 633 FT FROM DER, 253 FT RIGHT OF CENTERLINE, 17 FT AGL/35 FT MSL. VEHICLES ON ROAD 699 FT FROM DER, 8 FT RIGHT OF CENTERLINE, 38 FT MSL. VEHICLES ON ROAD BEGINNING 715 FT FROM DER, 37 FT RIGHT OF CENTERLINE, UP TO 39 FT MSL. VEHICLES ON ROAD BEGINNING 720 FT FROM DER, 2 FT LEFT OF CENTERLINE, UP TO 39 FT MSL. VEHICLES ON ROAD BEGINNING 730 FT FROM DER, 137 FT RIGHT OF CENTERLINE, UP TO 40 FT MSL. VEHICLES ON ROAD BEGINNING 751 FT FROM DER, 216 FT RIGHT OF CENTERLINE, UP TO 41 FT MSL. VEHICLES ON ROAD BEGINNING 792 FT FROM DER, 493 FT RIGHT OF CENTERLINE, UP TO 42 FT MSL. VEHICLES ON ROAD BEGINNING 798 FT FROM DER, ON CENTERLINE, UP TO 42 FT MSL. TREE 824 FT FROM DER, 135 FT LEFT OF CENTERLINE, 40 FT MSL. VEHICLES ON ROAD BEGINNING 891 FT FROM DER, 488 FT RIGHT OF CENTERLINE, UP TO 43 FT MSL. VEHICLES ON ROAD 920 FT FROM DER, 642 FT RIGHT OF CENTERLINE, 44 FT MSL. TRANSMISSION TOWERS BEGINNING 6014 FT FROM DER, 1332 FT LEFT OF CENTERLINE, UP TO 173 FT MSL. TANK 1 NM FROM DER, 1927 FT RIGHT OF CENTERLINE, 213 FT MSL. CHIMNEY 1.4 NM FROM DER, 2458 FT RIGHT OF CENTERLINE, 355 FT AGL/378 FT MSL. REFINERY 1.6 NM FROM DER, 2934 FT RIGHT OF CENTERLINE, 308 FT AGL/322 FT MSL.

NOTE: RWY 32R, TERRAIN 81 FT FROM DER, 481 FT RIGHT OF CENTERLINE, 21 FT MSL. VEHICLES ON ROAD 559 FT FROM DER, 3 FT RIGHT OF CENTERLINE, 34 FT MSL. VEHICLES ON ROAD 585 FT FROM DER, 496 FT LEFT OF CENTERLINE, 34 FT MSL. BUILDING 632 FT FROM DER, 246 FT LEFT OF CENTERLINE, 35 FT MSL. BUILDING 653 FT FROM DER, 236 FT RIGHT OF CENTERLINE, 41 FT MSL. FLAGPOLE, SIGNS, AND VEHICLES ON ROAD BEGINNING 654 FT FROM DER, 55 FT RIGHT OF CENTERLINE, UP TO 21 FT AGL/43 FT MSL. VEHICLES ON ROAD BEGINNING 677 FT FROM DER, 491 FT LEFT OF CENTERLINE, UP TO 38 FT MSL. VEHICLES ON ROAD BEGINNING 714 FT FROM DER, 374 FT LEFT OF CENTERLINE, UP TO 39 FT MSL. VEHICLES ON ROAD BEGINNING 730 FT FROM DER, 243 FT LEFT OF CENTERLINE, UP TO 40 FT MSL. VEHICLES ON ROAD AND TREES BEGINNING 750 FT FROM DER, 6 FT LEFT OF CENTERLINE, UP TO 41 FT MSL. VEHICLES ON ROAD BEGINNING 820 FT FROM DER, 285 FT RIGHT OF CENTERLINE, UP TO 45 FT MSL. VEHICLES ON ROAD BEGINNING 824 FT FROM DER, 234 FT RIGHT OF CENTERLINE, UP TO 47 FT MSL. VEHICLES ON ROAD 828 FT FROM DER, 624 FT RIGHT OF CENTERLINE, 48 FT MSL. VEHICLES ON ROAD BEGINNING 829 FT FROM DER, ON CENTERLINE, UP TO 50 FT MSL. VEHICLES ON ROAD BEGINNING 867 FT FROM DER, 43 FT LEFT OF CENTERLINE, UP TO 42 FT MSL. VEHICLES ON ROAD 899 FT FROM DER, 11 FT LEFT OF CENTERLINE, 43 FT MSL. VEHICLES ON ROAD BEGINNING 932 FT FROM DER, 269 FT RIGHT OF CENTERLINE, UP TO 52 FT MSL. AGRICULTURAL EQUIPMENT 2109 FT FROM DER, 600 FT RIGHT OF CENTERLINE, 78 FT AGL/99 FT MSL. POLE 3700 FT FROM DER, 1431 FT RIGHT OF CENTERLINE, UP TO 40 FT AGL/150 FT MSL. POLE 4067 FT FROM DER, 1531 FT RIGHT OF CENTERLINE, 43 FT AGL/161 FT MSL. TANK 4527 FT FROM DER, 1675 FT RIGHT OF CENTERLINE, 57 FT AGL/170 FT MSL. TRANSMISSION TOWER 6013 FT FROM DER, 1840 FT LEFT OF CENTERLINE, 173 FT MSL. TANK 1 NM FROM DER, 1423 FT RIGHT OF CENTERLINE, 126 FT AGL/213 FT MSL. CHIMNEY 1.4 NM FROM DER, 1954 FT RIGHT OF CENTERLINE, 355 FT AGL/378 FT MSL. REFINERY 1.6 NM FROM DER, 2429 FT RIGHT OF CENTERLINE, 308 FT AGL/322 FT MSL.

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CONTROLLING OBSTACLES:

RWY 1L/1R: 738 FT MSL TRANSMISSION LINE TOWER 380201.04N/1220104.33W.
RWY 14L/14R: 1991 FT MSL AAO 375444.00N/1215732.35W.
RWY 19L/19R: 2959 FT MSL AAO 375307.20N/1215639.00W.
RWY 32L/32R: 738 FT MSL TRANSMISSION LINE TOWER 380201.04N/1220104.33W.

LOST COMMUNICATIONS PROCEDURES:**ADDITIONAL FLIGHT DATA:**

CHART: V108.
CHART: OAK R-347 AND CCR R-259 AT CROIT; SAC R-177 AT OAKEY; OAK R-347, SGD R-127, CCR R-229, AND SAU R-045 AT SABLO.

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
BUCHANAN FIELD	CONCORD	CA

COMMUNICATIONS:

GND CONTROL, CCR ATCT, SUU APP CON

FIXES AND/OR NAVAIDS:

CCR VOR/DME



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REMARKS:

1. TOP ALTITUDE NOT REQUESTED BY ATC FOR THIS PROCEDURE (SEE TOP ALTITUDE BOOK 5).
2. RWY 1L/1R CLIMB GRADIENT ROUNDED UP TO 330 FT PER NM FOR PUBLICATION (COMPUTED VALUE 326 FT PER NM).
3. RWY 14L/14R CLIMB GRADIENT ROUNDED UP TO 420 FT PER NM FOR PUBLICATION (COMPUTED VALUE 419 FT PER NM).
4. RWY 19L/19R CLIMB GRADIENT ROUNDED UP TO 490 FT PER NM FOR PUBLICATION (COMPUTED VALUE 486 FT PER NM).
5. RWY 32L/32R CLIMB GRADIENT ROUNDED UP TO 330 FT PER NM FOR PUBLICATION (COMPUTED VALUE 322 FT PER NM).
6. SECONDARY ROC REDUCTION IN LINDEN TRANSITION (CC LOM TO OAKLEY SEGMENT) NOT REQUIRED TO ACHIEVE PUBLISHED MEA. FULL ROC APPLIED.

FLIGHT INSPECTED BY:
JAMES M MEEK

Digitally signed by
ROBERT G HAMILTON
Apr 06, 2017

OFFICE SYMBOL: FICO
DATE: 02/02/2017

DEVELOPED BY:
PETER GUIMOND

Digitally signed by
PETER R GUIMOND
Oct 14, 2016

OFFICE SYMBOL: AJV-5422
DATE: 10/14/2016

APPROVED BY:
TONY LAWSON

Digitally signed by
ROBERT G HAMILTON
Apr 06, 2017

OFFICE SYMBOL: AJV-5420
DATE:

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

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

OTHER:

ZOA, NORCAL APP CON, SUU APP CON, CCR ATCT, AMGR

QUALITY
11
CHECKED

CHANGES - REASONS:

1. AMENDED RWY 1L/1R TAKEOFF MINIMUMS FROM STANDARD WITH OBSTACLE CLIMB OF 354 FT PER NM TO 1200 TO READ STANDARD WITH MINIMUM CLIMB OF 330 FT PER NM TO 1000 - NEW OBSTACLE STUDY.
2. AMENDED RWY 1L DEPARTURE INSTRUCTIONS FROM CLIMB DIRECT CC LOM, THENCE TO READ CLIMBING LEFT TURN DIRECT CC LOM THENCE - TURN TO CC LOM COULD EXCEED 15 DEGREES DEPENDING ON WHERE AIRCRAFT REACH 400 AGL.
3. AMENDED THENCE INSTRUCTIONS FROM VIA (TRANSITION) OR (ASSIGNED ROUTE) TO ON (TRANSITION) OR (ASSIGNED) ROUTE - VIA REPLACED BY ON IN ACCORDANCE WITH CURRENT POLICY.
4. AMENDED RWY 14L TAKEOFF MINIMUMS FROM STANDARD WITH OBSTACLE CLIMB OF 400 FT PER NM TO 2200 TO READ STANDARD WITH MINIMUM CLIMB OF 420 FT PER NM TO 2700 - NEW OBSTACLE STUDY.
5. AMENDED RWY 14R TAKEOFF MINIMUMS FROM STANDARD WITH OBSTACLE CLIMB OF 380 FT PER NM TO 2200 TO READ STANDARD WITH MINIMUM CLIMB OF 420 FT PER NM TO 2700 - NEW OBSTACLE STUDY.
6. AMENDED RWY 19L/19 TAKEOFF MINIMUMS FROM STANDARD WITH OBSTACLE CLIMB OF 470 FT PER NM TO 3700 TO READ STANDARD WITH MINIMUM CLIMB OF 490 FT PER NM TO 3900 - NEW OBSTACLE STUDY.
7. AMENDED RWY 32R TAKEOFF MINIMUMS FROM STANDARD WITH OBSTACLE CLIMB OF 360 FT PER NM TO 1200 TO READ STANDARD WITH MINIMUM CLIMB OF 330 FT PER NM TO 1000 - NEW OBSTACLE STUDY.
8. AMENDED CC LOM TO CROIT COURSE FROM 257.46 TO 261.46, CC LOM TO OAKLEY COURSE FROM 070.84 TO 074.84, CC LOM TO SABLO COURSE FROM 230.21 TO 234.21, AND CC LOM TO SIDMY COURSE FROM 050.00 TO 054.00 - KANAN LOM (CC) MAGVAR BEING UPDATED FROM 17E TO 13E.

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9. DELETED MANTECA TRANSITION - WESTERN FPT REQUEST. ECA VOR IS SCHEDULED TO BE DECOMMISSIONED AS PART OF VOR MON.					
10. AMENDED CROIT TRANSITION MOCA FROM 3100 TO 3400 - NEW OBSTACLE STUDY USING ENROUTE CRITERIA					
11. AMENDED LINDEN TRANSITION (OAKEY INT TO LIN VOR/DME SEGMENT) MEA FROM 2000 TO 3700 - INCREASED TO MATCH PRECEDING SEGMENT. MEA(S) ON SIDS SHOULD NOT BE LOWER THAN THE PRECEDING SEGMENT MEA.					
12. AMENDED SACRAMENTO TRANSITION (CC LOM TO SIDMY SEGMENT) MOCA FROM 2900 TO 3300 - NEW OBSTACLE STUDY USING ENROUTE CRITERIA.					
13. AMENDED SACRAMENTO TRANSITION (SIDMY TO SAC VORTAC SEGMENT) MOCA FROM 2900 TO 1800 - NEW OBSTACLE STUDY USING 1000 FOOT ROC. SEGMENT DOES NOT LIE IN MOUNTAINOUS TERRAIN.					
14. AMENDED TAKEOFF OBSTACLE NOTES FOR ALL RUNWAYS - IN ACCORDANCE WITH FAAO 8260.46F, APPENDIX D, SECTION 1, PARA 9. GROUPED AND FORMATTED IN ACCORDANCE WITH DEPARTURE OBSTACLES GROUPER (1.0) STANDARD OPERATING PROCEDURE.					
15. AMENDED CONTROLLING OBSTACLES FOR ALL RUNWAYS - NEW OBSTACLE STUDY. FORMATTED IN ACCORDANCE WITH FAAO 8260.46F, APPENDIX D, SECTION 1, PARA 10.					
16. ADDED CROSSING RADIALS FOR CROIT, OAKEY, AND SABLO IN ADDITIONAL FLIGHT DATA - CLARIFIES INTERSECTION CHARTING REQUIREMENTS ON PROCEDURE.					

QUALITY
11
CHECKED