

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
DIVERSE VECTOR AREA (DVA)

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Distances are in nautical miles.

**AIRPORT ID**

KHWD

**CITY**

HAYWARD

**STATE**

CA

**AMDT NO**

2

**ACTUAL EFFECTIVE DATE**

**CHART - DIVERSE VECTOR AREA (Radar Vectors):**

RWY 10L: HEADING AS ASSIGNED BY ATC; REQUIRES MINIMUM CLIMB OF 211 FT PER NM TO 300.

RWY 10R: HEADING AS ASSIGNED BY ATC

RWY 28L: HEADING AS ASSIGNED BY ATC; REQUIRES MINIMUM CLIMB OF 310 FT PER NM TO 4600.

RWY 28R: HEADING AS ASSIGNED BY ATC; REQUIRES MINIMUM CLIMB OF 310 FT PER NM TO 4600

**FOR ATC USE ONLY:**

RW10L: AUTHORIZED HEADINGS 135 CLOCKWISE TO 284 WITHIN 11 NM OF 373935.08N/1220716.58W (DEPARTURE REFERENCE POINT) INCLUDES ALL AREA WITHIN 373935.08N/1220716.58W TO 373929.62N/1220704.63W, TO 373933.91N/1220701.53W, TO 373903.07N/1220435.52W, THEN VIA 4.2 NM CLOCKWISE ARC CENTERED ON 373524.30N/1220713.51W TO 373730.36N/1220238.80W, TO 373118.24N/1215809.12W, THEN VIA 11 NM CLOCKWISE ARC CENTERED ON 373935.08N/1220716.58W TO 374454.80N/1221924.40W, TO 373935.08N/1220716.58W.

RW10R: AUTHORIZED HEADINGS 135 CLOCKWISE TO 284 WITHIN 11 NM OF 373933.53N/1220725.69W (DEPARTURE REFERENCE POINT) INCLUDES ALL AREA WITHIN 373933.53N/1220725.69W TO 373915.35N/1220645.85W, TO 373919.63N/1220642.75W, TO 373847.71N/1220411.56W, THEN VIA 4.2 NM CLOCKWISE ARC CENTERED ON 373508.93N/1220649.54W TO 373714.99N/1220214.85W, TO 373127.55N/1215803.04W, THEN VIA 11 NM CLOCKWISE ARC CENTERED ON 373933.53N/1220725.69W TO 374453.25N/1221933.50W, TO 373933.53N/1220725.69W.

RW28L: ALL HEADINGS AUTHORIZED WITHIN 18 NM OF 373925.19N/1220707.42W (DEPARTURE REFERENCE POINT) INCLUDES ALL AREA WITHIN 18 NM OF 373925.19N/1220707.42W.

RW28R: ALL HEADINGS AUTHORIZED WITHIN 18 NM OF 373939.47N/1220726.20W (DEPARTURE REFERENCE POINT) INCLUDES ALL AREA WITHIN 18 NM OF 373939.47N/1220726.20W.

**OBSTACLE EVALUATION AREA (not for video mapping use):**

RW10L: FROM 373935.08N/1220716.58W TO 373929.62N/1220704.63W, TO 373933.91N/1220701.53W, TO 373903.07N/1220435.52W, THEN VIA 4.2 NM CLOCKWISE ARC CENTERED ON 373524.30N/1220713.51W TO 373837.52N/1220349.56W, TO 373231.61N/1215442.43W, THEN VIA 3 NM CLOCKWISE ARC CENTERED ON 373118.24N/1215809.12W TO 372902.61N/1215540.16W, THEN VIA 14 NM CLOCKWISE ARC CENTERED ON 373935.08N/1220716.58W TO 374621.78N/1222243.20W, THEN VIA 3 NM CLOCKWISE ARC CENTERED ON 374454.80N/1221924.40W TO 374719.24N/1221708.65W, THEN VIA 11 NM CLOCKWISE ARC CENTERED ON 373935.08N/1220716.58W TO 374753.41N/1221622.89W, TO 373935.08N/1220716.58W. CONTROL OBSTACLES: 192 MSL TREE (06-305847) AT 373842.98N/1220613.88W.

RW10R: FROM 373933.53N/1220725.69W TO 373915.35N/1220645.85W, TO 373919.63N/1220642.75W, TO 373847.71N/1220411.56W, THEN VIA 4.2 NM CLOCKWISE ARC CENTERED ON 373508.93N/1220649.54W TO 373822.15N/1220325.61W, TO 373222.21N/1215427.40W, THEN VIA 3 NM CLOCKWISE ARC CENTERED ON 373127.55N/1215803.04W TO 372914.87N/1215529.94W, THEN VIA 14 NM CLOCKWISE ARC CENTERED ON 373933.53N/1220725.69W TO 374620.23N/1222252.30W, THEN VIA 3 NM CLOCKWISE ARC CENTERED ON 374453.25N/1221933.50W TO 374717.69N/1221717.76W, THEN VIA 11 NM CLOCKWISE ARC CENTERED ON 373933.53N/1220725.69W TO 374751.86N/1221631.99W, TO 373933.53N/1220725.69W.

RW28L: ALL AREA WITHIN 21 NM OF 373925.19N/1220707.42W. CONTROL OBSTACLES: 1699 MSL AAO ON TERRAIN AT 373921.00N/1220012.00W (CG) AND 4035 MSL AAO ON TERRAIN AT 375254.00N/1215454.00W. (CTA)

RW28R: ALL AREA WITHIN 21 NM OF 373939.47N/1220726.20W. CONTROL OBSTACLES: 1004 MSL AAO ON TERRAIN AT 374327.00N/1220709.00W (CG) AND 4035 MSL AAO ON TERRAIN AT 375254.00N/1215454.00W. (CTA)

**AUTHORIZED FACILITY:**

NORTHERN CALIFORNIA TRACON (NCT) PHONE: (916) 366-4001 FACILITY MANAGER, (916) 366-4008 OPERATIONS SUPPORT MANAGER.

**FAA FORM 7210-9 DATE:**

**DEVELOPED BY**

ERIC SUSKI (ZACHARY KRUEGER)

**SIGNATURE**

*Digitally signed by*

**ERIC N SUSKI**

Nov 13, 2024

**OFFICE**

AJV-A431

**DATE**

10/15/2024

QUALITY  
23  
CHECKED

**APPROVED BY**

ERIC SUSKI

**SIGNATURE**

*Digitally signed by*

**ERIC N SUSKI**

Nov 13, 2024

**OFFICE**

AJV-A431

**DATE**

**TITLE**  
MANAGER.

**CHANGES - REASONS:**

1. CHART- DIVERSE VECTOR AREA (RADAR VECTORS: RWY 10L CHANGED FROM "HEADING AS ASSIGNED BY ATC" TO "HEADING AS ASSIGNED BY ATC; REQUIRES MINIMUM CLIMB OF 211 FT PER NM TO 300. - NEW SURVEY.

2. FOR ATC USE ONLY: RWY 10L CHANGED FROM "RWY 10L: AUTHORIZED HEADINGS 135 CLOCKWISE TO 284 WITHIN 11 NM OF 373935.07N/1220716.57W (DEPARTURE REFERENCE POINT) INCLUDES ALL AREA WITHIN 373935.07N/1220716.57W TO 373901.99N/1220430.34W,

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THEN VIA 4.2 NM CLOCKWISE ARC CENTERED ON 373523.16N/1220708.20W TO 373729.33N/1220233.58W, TO 373120.30N/1215806.14W, THEN VIA 11 NM CLOCKWISE ARC CENTERED ON 373935.07N/1220716.57W TO 37 4454. 79N/1221924.39W, TO 373935.07N/1220716.57W." TO "RW10L: AUTHORIZED HEADINGS 135 CLOCKWISE TO 284 WITHIN 11 NM OF 373935.08N/1220716.58W (DEPARTURE REFERENCE POINT) INCLUDES ALL AREA WITHIN 373935.08N/1220716.58W TO 373929.62N/1220704.63W, TO 373933.91N/1220701.53W, TO 373903.07N/1220435.52W, THEN VIA 4.2 NM CLOCKWISE ARC CENTERED ON 373524.30N/1220713.51W TO 373730.36N/1220238.80W, TO 373118.24N/1215809.12W, THEN VIA 11 NM CLOCKWISE ARC CENTERED ON 373935.08N/1220716.58W TO 374454.80N/1221924.40W, TO 373935.08N/1220716.58W." - UPDATED FROM MANUAL TO PROGRAM BASED EVALUATION.

3. FOR ATC USE ONLY: RWY 10R CHANGED FROM "RWY 10R: AUTHORIZED HEADINGS 135 CLOCKWISE TO 284 WITHIN 11 NM OF 373933.52N/1220725.68W (DEPARTURE REFERENCE POINT) INCLUDES ALL AREA WITHIN 373933.52N/1220725.68W TO 373847.71 N/1220411.56W, THEN VIA 4.2 NM CLOCKWISE ARC CENTERED ON 373508.90N/1220649.46W TO 373715.04N/1220214.82W. TO 373127.57N/1215802.99W, THEN VIA 11 NM CLOCKWISE ARC CENTERED ON 373933.52N/1220725.68W TO 374453.24N/1221933.50W, TO 373933.52N/1220725.68W." TO "RW10R: FROM 373933.53N/1220725.69W TO 373915.35N/1220645.85W, TO 373919.63N/1220642.75W, TO 373847.71N/1220411.56W, THEN VIA 4.2 NM CLOCKWISE ARC CENTERED ON 373508.93N/1220649.54W TO 373822.15N/1220325.61W, TO 373222.21N/1215427.40W, THEN VIA 3 NM CLOCKWISE ARC CENTERED ON 373127.55N/1215803.04W TO 372914.87N/1215529.94W, THEN VIA 14 NM CLOCKWISE ARC CENTERED ON 373933.53N/1220725.69W TO 374620.23N/1222252.30W, THEN VIA 3 NM CLOCKWISE ARC CENTERED ON 374453.25N/1221933.50W TO 374717.69N/1221717.76W, THEN VIA 11 NM CLOCKWISE ARC CENTERED ON 373933.53N/1220725.69W TO 374751.86N/1221631.99W, TO 373933.53N/1220725.69W." - UPDATED FROM MANUAL TO PROGRAM BASED EVALUATION.

4. FOR ATC USE ONLY: RWY 28L CHANGED FROM "RWY 28L: AUTHORIZED ALL HEADINGS WITHIN 18 NM OF 373925.18N/1220707.41W (DEPARTURE REFERENCE POINT) INCLUDES ALL AREA WITHIN 18 NM OF 373925.18N/1220707.41 W" TO "RW28L: ALL HEADINGS AUTHORIZED WITHIN 18 NM OF 373925.19N/1220707.42W (DEPARTURE REFERENCE POINT) INCLUDES ALL AREA WITHIN 18 NM OF 373925.19N/1220707.42W." - UPDATED FROM MANUAL TO PROGRAM BASED EVALUATION.

5. FOR ATC USE ONLY: RWY 28R CHANGED FROM "RWY 28R: AUTHORIZED ALL HEADINGS WITHIN 18 NM OF 373939.46N/1220726.20W (DEPARTURE REFERENCE POINT) INCLUDES ALL AREA WITHIN 18 NM OF 373939.46N/1220726.20W." TO "RW28R: ALL HEADINGS AUTHORIZED WITHIN 18 NM OF 373939.47N/1220726.20W (DEPARTURE REFERENCE POINT) INCLUDES ALL AREA WITHIN 18 NM OF 373939.47N/1220726.20W." - UPDATED FROM MANUAL TO PROGRAM BASED EVALUATION.

6. OBSTACLE EVALUATION AREA: RWY 10L CHANGED FROM "RWY 10L: FROM 373935.07N/1220716.57W TO 373901.99N/1220430.34W, THEN VIA 4.2 NM CLOCKWISE ARC CENTERED ON 373523.16N/1220708.20W TO 373836.47N/1220344.38W TO 373227.08N/1215432.06W, THEN VIA 3.05 NM CLOCKWISE ARC CENTERED ON 373120.30N/1215806.14W TO 372841.64N/1215611.42W, THEN VIA 14 NM CLOCKWISE ARC CENTERED ON 373935.07N/1220716.57W TO 374621.77N/1222243.19W, THEN VIA 3 NM CLOCKWISE ARC CENTERED ON 374454.79N/1221924.39W TO 374719.19N/1221708.69W, THEN VIA 11 NM CLOCKWISE ARC CENTERED ON 373935.07N/1220716.57W TO 374753.40N/1221622.88W, TO 373935.07N/1220716.57W. TO "RW10L: FROM 373935.08N/1220716.58W TO 373929.62N/1220704.63W, TO 373933.91N/1220701.53W, TO 373903.07N/1220435.52W, THEN VIA 4.2 NM CLOCKWISE ARC CENTERED ON 373524.30N/1220713.51W TO 373837.52N/1220349.56W, TO 373231.61N/1215442.43W, THEN VIA 3 NM CLOCKWISE ARC CENTERED ON 373118.24N/1215809.12W TO 372902.61N/1215540.16W, THEN VIA 14 NM CLOCKWISE ARC CENTERED ON 373935.08N/1220716.58W TO 374621.78N/1222243.20W, THEN VIA 3 NM CLOCKWISE ARC CENTERED ON 374454.80N/1221924.40W TO 374719.24N/1221708.65W, THEN VIA 11 NM CLOCKWISE ARC CENTERED ON 373935.08N/1220716.58W TO 374753.41N/1221622.89W, TO 373935.08N/1220716.58W. CONTROL OBSTACLES: 192 MSL TREE (06-305847) AT 373842.98N/1220613.88W." - UPDATED FROM MANUAL TO PROGRAM BASED EVALUATION.

7. OBSTACLE EVALUATION AREA: RWY 10R CHANGED FROM "RWY 10R: FROM 373933.52N/1220725.68W TO 373847.71 N/1220411.56W, THEN VIA 4.2 NM CLOCKWISE ARC CENTERED ON 373508.90N/1220649.46W TO 373822.18N/1220325.61W TO 373218.06N/1215421.18W, THEN VIA 3.06 NM CLOCKWISE ARC CENTERED ON 373127.57N/1215802.99W TO 372848.38N/1215607.87W, THEN VIA 14 NM CLOCKWISE ARC CENTERED ON 373933.52N/1220725.68W TO 374620.22N/1222252.29W, THEN VIA 3 NM CLOCKWISE ARC CENTERED ON 374453.24N/1221933.50W TO 374717.64N/1221717.80W, THEN VIA 11 NM CLOCKWISE ARC CENTERED ON 373933.52N/1220725.68W TO 374751.85N/1221631.99W, TO 373933.52N/1220725.68W." TO "RW10R: FROM 373933.53N/1220725.69W TO 373915.35N/1220645.85W, TO 373919.63N/1220642.75W, TO 373847.71N/1220411.56W, THEN VIA 4.2 NM CLOCKWISE ARC CENTERED ON 373508.93N/1220649.54W TO 373822.15N/1220325.61W, TO 373222.21N/1215427.40W, THEN VIA 3 NM CLOCKWISE ARC CENTERED ON 373127.55N/1215803.04W TO 372914.87N/1215529.94W, THEN VIA 14 NM CLOCKWISE ARC CENTERED ON 373933.53N/1220725.69W TO 374620.23N/1222252.30W, THEN VIA 3 NM CLOCKWISE ARC CENTERED ON 374453.25N/1221933.50W TO 374717.69N/1221717.76W, THEN VIA 11 NM CLOCKWISE ARC CENTERED ON 373933.53N/1220725.69W TO 374751.86N/1221631.99W, TO 373933.53N/1220725.69W." - UPDATED FROM MANUAL TO PROGRAM BASED EVALUATION.

8. OBSTACLE EVALUATION AREA: RWY 28L CHANGED FROM "RWY 28L: INCLUDES ALL AREA WITHIN 21 NM OF 373925.18N/1220707.41W. CONTROL OBSTACLES: 1019 FT. MSL MO ON TERRAIN AT 374324.86N/1220708.82W (CG) AND 4079 FT. MSL MO ON TERRAIN AT 375253.80N/1215453.43W (CTA)." TO "RW28L: ALL AREA WITHIN 21 NM OF 373925.19N/1220707.42W. CONTROL OBSTACLES: 1699 MSL AAO ON TERRAIN AT 373921.00N/1220012.00W (CG) AND 4035 MSL AAO ON TERRAIN AT 375254.00N/1215454.00W. (CTA)" - UPDATED FROM MANUAL TO PROGRAM BASED EVALUATION.

9. OBSTACLE EVALUATION AREA: RWY 28R CHANGED FROM "RWY 28R: INCLUDES ALL AREA WITHIN 21 NM OF 373939.46N/1220726.20W. CONTROL OBSTACLES: 1019 FT. MSL MO ON TERRAIN AT 374324.86N/1220708.82W (CG) AND 4079 FT. MSL MO ON TERRAIN AT 375253.80N/1215453.43W (CTA)." TO " RW28R: ALL AREA WITHIN 21 NM OF 373939.47N/1220726.20W. CONTROL OBSTACLES: 1004 MSL AAO ON TERRAIN AT 374327.00N/1220709.00W. (CG) AND 4035 MSL AAO ON TERRAIN AT 375254.00N/1215454.00W. (CTA)" - UPDATED FROM MANUAL TO PROGRAM BASED EVALUATION.

QUALITY  
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