



Rally Course POH

Crew Number: _____

Pilot ☐ Copilot ☐



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INTRODUCTION

Welcome to the Hayward – Redding – Reno Air Rally. This event will test your piloting skills and knowledge of your aircraft. By this time, your aircraft should be parked in the impound area, fueling completed, prohibited cockpit equipment disabled or covered, and your rally numbers affixed to the airplane. You should already be checked in at the registration table and have all your paperwork completed with the check-in volunteers.

A formal mandatory course briefing will be conducted on Thursday, June 21 at 4:00 PM. The briefing is held in the same hangar where the registration desk is located. A “quick brief” is conducted first for returning racers to highlight procedural changes from the previous year. **We recommend “first-time racers” sit towards the front of the briefing area so the briefer can more easily answer all your questions.**

For those staying overnight at the Hayward Airport La Quinta Inn, courtesy transportation is available – please ask any race official or ramp volunteer for directions. Please take everything from the airplane you might need overnight, as you will not be allowed to return to the airplane after impound until Friday morning.

In addition to your flight planning gear, you should bring the following charts to the briefing:

- ☐ San Francisco Sectional – **100th** edition, dated **03/01/2018**
- ☐ San Francisco Terminal Area – **92nd** edition, dated **03/01/2018**
- ☐ Klamath Falls Sectional – **98th** edition, dated **03/29/2018**

INTRODUCTION

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HWD ACTIVITY SCHEDULE

All times are PDT.

Thursday, June 21

- ☐ **1200-1600** Impound and check-in.
1200-1500 Complimentary lunch available at registration.

- ☐ **1600** ***MANDATORY COURSE BRIEFING***

The briefing is held in the Airport Maintenance Hangar, in the same building and adjacent to the registration check-in desk. If you have already received your course POH, you may start your preflight planning prior to the briefing.

Friday, June 22

- ☐ **0700** Coffee and snacks in the Airport Administration Building.
- ☐ **0730** Crew photos – at plane side.
- ☐ **0800** First aircraft departs – weather permitting.

With the exception of crew photos, you must be at your aircraft 30 minutes before the first launch (0730) with your preflight estimates completed on the official race forms. A rally official will pick up your estimates at that time. You will be signaled to start your engine(s) shortly thereafter; the exact launch sequence and approximate times are discussed in Thursday's briefing.

Be ready to go on time or you will be penalized and started last. There is no penalty for engine starting difficulties or other maintenance-related problems, but you will be started after all the others.

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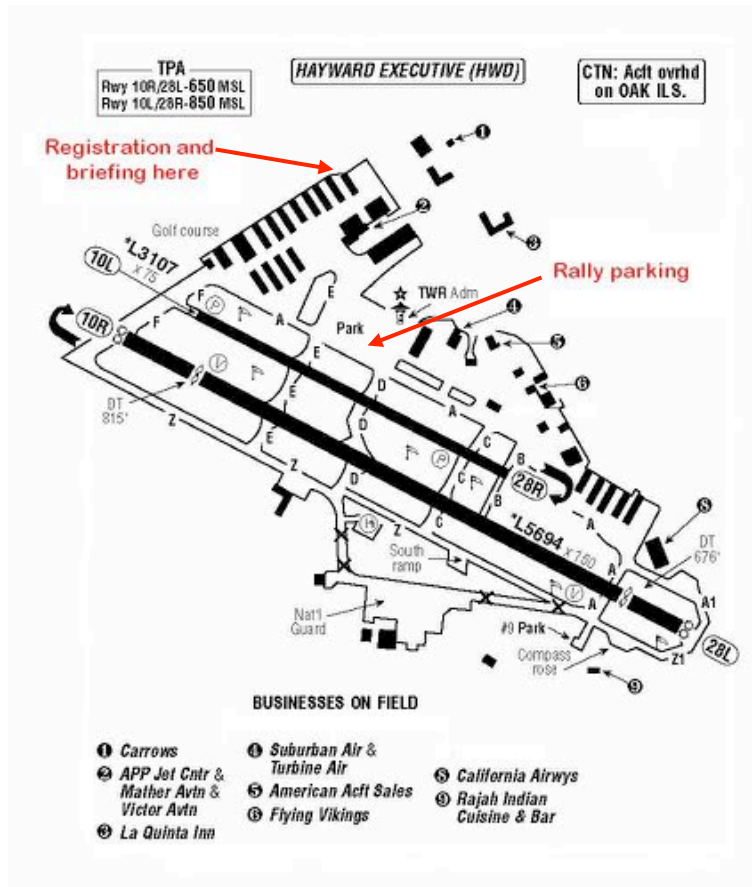
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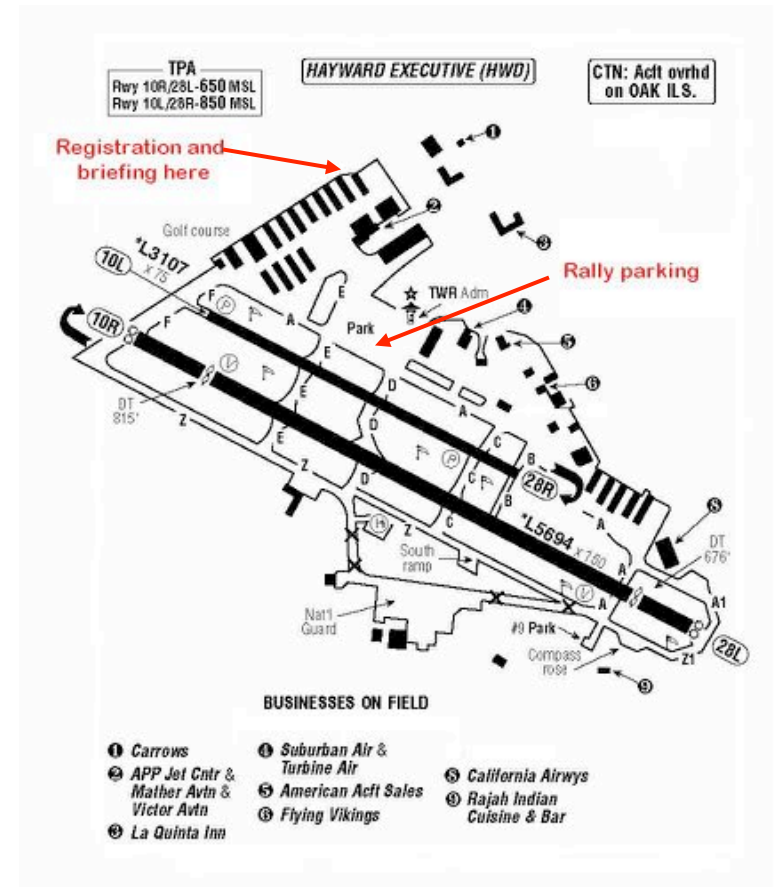
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HWD AIRPORT DIAGRAM



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COMMITTEE MEMBERS AND VOLUNTEERS

In order that you may easily recognize Committee Members and Rally Officials, they will be wearing red streamers with their nametag.

2018 Hayward Air Rally Committee

Co-Chairs:	Tom Neale Kim Purcell Sam Sun
Treasurer:	Tom Neale
Secretary:	Sam Sun
Registrar:	Chris Verbil
Publicity:	Mike Citro
Webmasters:	Tom Neale & Sam Sun
99s Liaison:	Kim Purcell
EAA Liaison:	Chris Verbil
Course Design:	Tom Neale
Hayward Ramp Operations:	Kim Purcell
Hayward Impound:	Kim Purcell
Redding Ramp Operations:	Mike Morgan
RenoReno Ramp Operations:	Steve Verbil

Volunteers

Hayward Ramp and Impound:	Kim Purcell Rob Kirkpatrick, Chris Lea Scott Allaway, Jeff Zalewski, Ed Hunter
Registration and Check-in:	Pam Dyche
Photographer:	Carl La Rue
Rally Artwork:	Tim Purcell
Ramp Start Official:	Tom Neale
Hayward Departure Timers:	Allison Verbil Pam Dyche Scott Allaway
Air Academy Scholarship Recipients	Sabrina Sutter Jackson Bellard

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EVENT CONTACT INFORMATION

Hayward Impound:

Until 1600 only: (530) 409-2357
After hours: (510) 385-1104

LaQuinta Inn HWD: (510) 732-6300

Event Chairman: (925) 209-8335

Prescott FSS:122.5 via Oakland RCO,
(800) WX-BRIEF
or (928) 583-6154

Rancho Radio:122.65 / 122.2 (South portion of Leg 1)

122.4 (Northern portion of Leg 1 &
Leg 2)

Redding Tower: (530) 221-4475

Redding Ramp Lead: (415) 515-5982

Norcal Approach:126.3 on deck at Reno/
Stead

Renaissance Reno
Downtown by Marriott: (775) 682-3900

Reno/Stead Ramp Lead: (203) 556-5082

FBO Information:

RDD Redding Jet Center (Epic, 530-224-2300, Unicom 122.95):
Accepts Visa, Mastercard, American Express, Multiservice, cash and
personal checks.

RTS Aviation Classics (Phillips 66, 775-972-5540, 122.85): Accepts Visa, Mastercard, American Express, Discover, Multiservice, Avcard, cash. No personal checks.

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RADIO PROCEDURES

During your flight while not monitoring ATC where required, please use the air-to-air frequency of **122.75**.

Use this frequency to let other rally pilots know your intentions, particularly in the vicinity of any checkpoint.

AIR-TO-AIR FREQUENCY ** 122.75 **

As detailed in the AIM, keep in mind that the use of air-to-air frequencies are for all authorized users. Other pilots, who are not in the rally, will be using the frequency on a shared basis much like Unicom.

Let other rally pilots know where you are and what you intend to do – position, altitude, and direction of turns are especially important.

Example "Race Two-Four is approaching O'Hare checkpoint at 3,500."

All turns around checkpoints should be made to the LEFT (counterclockwise). Be sure to announce on the air-to-air frequency that you are circling the checkpoint.

Example "Race Two-Four is over Bush Intercontinental checkpoint at 7,500, making left turns."

While communicating with Hayward Tower or Redding Tower, USE YOUR RACE NUMBER. This will alert controllers for special handling.

Example "Redding Tower, Race Two-Four inbound for landing with information Bravo."

If you call Approach, Center, FSS, Flight Watch, or any other agency while enroute use your "N" number. Only ATC facilities directly involved with the Air Rally will know anything about your race number.

RADIO PROCEDURES

During your flight while not monitoring ATC where required, please use the air-to-air frequency of **122.75**.

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FLIGHT PLAN PROCEDURES

A standard VFR Flight Plan will be filed based on the information provided by you on your entry application. This Flight Plan has absolutely nothing to do with the rally scoring. It is simply a VFR Flight Plan that the committee files and opens on your behalf.

The rally committee will file and activate this Flight Plan for you upon departure from Hayward. **Your ETE is calculated by using your pre-flight estimate based on the speed on your registration form, the course total distance and adding a two-hour “pad”.** You will receive a copy of the group flight plan before departure – it is your responsibility to update FSS if you need more time than filed.

If your flight lasts longer than planned total enroute time, you must amend your plan through standard FSS procedures. Use your “N” number to discuss your flight plan with Flight Service.

Upon arrival in Reno, you should close your FAA VFR Flight Plan through normal methods.

FLIGHT PLAN TIME CALCULATOR

Hayward Takeoff Time		PDT
+ ETE from Group Flight Plan	+	
= Your Flight Plan ETA	=	PDT

Add +7 hours for UTC

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FLIGHT PLAN TIME CALCULATOR

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+ ETE from Group Flight Plan	+	
= Your Flight Plan ETA	=	PDT

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RALLY SCORING

HAYWARD - REDDING TIME ESTIMATE

This is your estimate of elapsed time from the start of the takeoff roll at Hayward, to overhead the “Howie” timing line southeast of Redding. This estimate will include your time necessary to fly to all the required checkpoints prior to crossing the timing line.

REDDING – RENO/STEAD TIME ESTIMATE

This is your estimate of elapsed time from passing the timer’s table on the takeoff roll at Redding, to overhead the “Hallelujah” timing line northwest of Reno/Stead. This estimate will include your time necessary to fly to all the required checkpoints prior to crossing the timing line.

HAYWARD - REDDING FUEL ESTIMATE

This is your estimate of fuel that you will use on the first leg of the race. It should include the fuel you burn for engine start, taxi, run-up, take-off and climb, all the enroute portion, flight from “Howie” timing line to the Redding airport, VFR pattern, landing, taxi, and engine shut down at the race ramp. Runway 16/34 is the expected runway for arrival at RDD.

REDDING – RENO/STEAD FUEL ESTIMATE

This is your estimate of fuel that you will use on the second leg of the race. It should include the fuel you burn for engine start, taxi, runup, take-off and climb, all the enroute portion, flight from “Hallelujah” timing line to the Reno airport, VFR pattern, landing, taxi, and engine shut down at the race ramp. Runway 14/32 is the anticipated runway for landing at RTS.

ADJUSTMENTS

Adjustments to fuel estimates may be made if you are vectored or forced to deviate from your planned route by ATC, for safety reasons, or are forced to do a go-around at the arrival airport. Race officials refer to these optional fuel adjustments as a “fuel vector”.

If you require a fuel vector adjustment, you must notify a fueling official before you start to refuel, or the fuel vector will be disallowed.

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Scoring – Penalty Points

Time scoring:

- **Analog Class:** One (1) point per second penalty, deviation from estimated time.
- **Digital Class:** Three (3) points per second penalty, deviation from estimated time.

Fuel scoring:

- **Analog:** Penalty points accrue at the rate of three (3) points for each one tenth of one percent (0.1%) difference in actual fuel used, as compared to your pre-flight leg fuel estimate.
- **Digital:** Six (6) penalty points for each 0.1% fuel estimate error.

Additional penalty points are assigned for the following infractions:

Not ready for Hayward engine start at assigned time.....	100 points
Misidentification of a mandatory checkpoint.....	250 points
Orbiting within sight of airborne timing lines for any reason.....	300 points

Disqualification may occur for any of the following reasons:

- Failure to cross any timing point.
- Refueling without a rally official present.
- Refueling without the truck fuel meter covered.

In addition, an aircraft may be disqualified or penalty points may be assigned at the discretion of the Rally Committee for infractions such as violation of Class “B” or “C” airspace, TFRs, Restricted Areas, hazardous flight practices, or other known violations of FARs or disregard for the spirit of the rules.

All the penalty points for fuel, time, checkpoints, and any other infractions are totaled for each leg, then added together for a cumulative score. The lowest total score determines the rally winner and order of finish.

Please consult the official Air Rally rules, available on the web site (www.airrally.org), for more information on how the race is scored.

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ABOUT THE RALLY SCORING FORM

Included in your crew kit is a three-part scoring form, titled “Checkpoint, Fuel and Time Estimate Log”. This form is printed in triplicate. Please note, *starting at the bottom* of the form:

1. TIME AND FUEL ESTIMATES - complete this section with your estimates on Friday morning. This section of the form will be picked up by a ramp official just prior to your departure. The rally official will take the bottom segment of the top white copy only.

2. REDDING FUEL – Redding ramp officials will enter the amount of fuel as shown by the truck meter, any fuel vector adjustments declared, and a fuel truck calibration factor.

Every fuel truck or pump used in the Rally is calibrated to ensure the quantity dispensed is reliable and consistent across all trucks. The calibration factor is a numerical value obtained after a meter-measured amount of fuel is dispensed into a container of very precise, known volume. The fuel truck meter amount is multiplied by the calibration factor, which results in a fuel total for scoring. All fuel scores shown on the scoring form are subject to verification and adjustment during the final scoring process.

After you sign this section, the rally official will take just the Redding segment of the top white copy only.

3. RENO/STEAD FUEL – Reno ramp officials will enter the amount of fuel as shown by the truck meter, fuel vector adjustments, and any fuel truck calibration factor. The same fuel truck calibration procedure is used at both Redding and Reno.

4. CHECKPOINTS - During the rally, you will be flying over the mandatory and bonus checkpoints listed in this Rally Course POH. At each checkpoint, you will select the correct answer for

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a question about that checkpoint. After you complete the checkpoint questions and sign this section, the official will check to see that any instruments disabled at Hayward impound are still in that condition. It is recommended that you take a photo of each check point to prove that you successfully navigated to it in the event that you answer a question incorrectly.

Bonus checkpoints are *optional*. It is up to each team to determine whether the additional time and fuel is worth the effort to go to each Bonus checkpoint. Scoring for each Bonus checkpoint is based on answering the question correctly, not just logged GPS location. Each correctly answered Bonus checkpoint question will subtract 20 points from your score.

After all required entries and signatures are completed, the ramp official will then remove the remaining portions of the white and yellow copies.

You will have the complete last pink page of the scoring form for your records. **Please bring your copy to the hotel**, as it contains all the information pertinent to your score. In the event of incomplete records on the course, the official scorers may ask you for your copy after the rally is completed.

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GENERAL CHECKPOINT INFORMATION

All checkpoints have been visually previewed and photographed from the air at an altitude of at least 1,500 feet AGL.

Your crew kit contains a multi-part “Checkpoint, Fuel and Time Estimate Log” that requires an answer for a question about each checkpoint. You should select what you believe is the correct response for each checkpoint question.

You are encouraged to take a photo of each checkpoint in case there is any question about whether you successfully navigated to that location.

If you feel that none of the answers are correct, take written notes of what you do see from the air. If the rally scorers can determine from your answer that you were over the checkpoint, credit will be awarded. Sometimes checkpoints do change from the time the course is designed until the day the rally is flown; if a majority of pilots miss or challenge a checkpoint question it will be considered for removal from the scoring process.

CAUTION

Due to different cruise speeds of rally aircraft, ground tracks inbound to the checkpoints, and altitudes flown – traffic can be hazardous over checkpoints as aircraft converge. Monitor the air-to-air frequency of 122.75 particularly in the vicinity of checkpoints. Broadcast your position and altitude when approaching, over, and departing a checkpoint.

If for any reason you must leave the rally due to mechanical difficulties or other problems, close or modify your flight plan with the nearest FSS. Try to notify another rally aircraft of your intentions so that information can be relayed to the Rally Committee. Crews receiving information about an airplane dropping out of the rally should report it to the officials at the next timing point, and to the ramp officials at the next airport of landing.

GENERAL CHECKPOINT INFORMATION

All checkpoints have been visually previewed and photographed from the air at an altitude of at least 1,500 feet AGL.

Your crew kit contains a multi-part “Checkpoint, Fuel and Time Estimate Log” that requires an answer for a question about each checkpoint. You should select what you believe is the correct response for each checkpoint question.

You are encouraged to take a photo of each checkpoint in case there is any question about whether you successfully navigated to that location.

If you feel that none of the answers are correct, take written notes of what you do see from the air. If the rally scorers can determine from your answer that you were over the checkpoint, credit will be awarded. Sometimes checkpoints do change from the time the course is designed until the day the rally is flown; if a majority of pilots miss or challenge a checkpoint question it will be considered for removal from the scoring process.

CAUTION

Due to different cruise speeds of rally aircraft, ground tracks inbound to the checkpoints, and altitudes flown – traffic can be hazardous over checkpoints as aircraft converge. Monitor the air-to-air frequency of 122.75 particularly in the vicinity of checkpoints. Broadcast your position and altitude when approaching, over, and departing a checkpoint.

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Checkpoint diagrams and information are placed in this Rally Course POH in the correct flight order.

Latitude and longitude coordinates are provided to assist you in locating each checkpoint on your aeronautical charts. **The coordinates provided are approximate and should not be relied on for navigation.**

Descriptions of certain area features are included where it may be beneficial for safety or to avoid possible confusion about checkpoint identity.

All features indicated on the checkpoint description are clearly visible from 1,500 feet AGL and above.

Within the limitations of the FARs and procedures specified in the AIM, *pilots may cross the mandatory visual checkpoints at an altitude and heading of their choosing*, but any suggested overflight altitudes and magnetic headings are stated for safety reasons. ***For the airborne timing checkpoints “Howie” and “Hallelujah”, a mandatory altitude is specified*** so timing officials on the ground can easily identify your race aircraft.

Diagrams in this document are NOT TO SCALE.

Safety in the air is up to you – the Pilot In Command. If any checkpoint becomes, in your opinion, unsafe due to weather or other factors which may obscure terrain or an area where a checkpoint may be located, use your discretion. If you decide to bypass a checkpoint, note your reasons and submit it with your rally scoring sheet. The official scorers will decide the validity of your action by comparing it to the procedures used by other aircraft in the same vicinity at the same time.

USE EXTREME CAUTION IN THE VICINITY OF CHECKPOINTS. ANNOUNCE YOUR POSITION, ALTITUDE, AND INTENTIONS ON THE AIR-TO-AIR FREQUENCY OF 122.75.

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HWD DEPARTURE PROCEDURES

Check boxes ☒ are provided for your planning use if desired.

Crews should be at their airplanes by 0730 Friday morning. A rally official will collect your time and fuel estimates by 0730.

Prior to engine start:

- ☐ **Rally Score Sheet (“Fuel and Time Estimate Log”) inside cockpit.**
- ☐ **Review the departure diagram on page 19.**
- ☐ **Monitor and copy ATIS – 126.7.**
- ☐ Place this green start card in windscreen or out window so the ramp official can clear you for engine start.
- ☐ **GPS DATA LOGGER SWITCHED ON or App Logging started.**

A rally official will indicate when you should start the engine(s). You will also be given a signal to taxi to run-up. When directed to taxi:

- ☐ **Contact Hayward Ground – 121.4. Request taxi clearance with the ATIS.** Example “*Hayward Ground, Race Two-Four ready for taxi with information Alpha.*”

When you get to the run-up area, you will have plenty of time for a proper check – but be prepared to move along as we attempt to launch aircraft at one-minute intervals.

When you are “number one holding short”, a rally starting official will signal you to taxi into takeoff “position and hold”.

- ☐ **Switch to and monitor Hayward Tower – 120.2.** No call is necessary, simply monitor the tower frequency.

Continue to next page.

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- ☐ **Switch to and monitor Hayward Tower – 120.2.** No call is necessary, simply monitor the tower frequency.

Continue to next page.

- ☐ **Transponder on to 1203 with ALT.**
- ☐ The rally starting official will raise a flag ten (10) seconds before the start of your takeoff run, then raise another hand and count down the final five seconds with a finger count. At the drop of the flag the clock is running for your flight, and you should start your takeoff run.
- ☐ **The Rally departure for 28R is a right cross wind departure.** Remain outside of the Oakland Class C in front and above you.
- ☐ Takeoff time recorded in Flight Plan Calculator on page 10.
- ☐ Continue to monitor the tower frequency 120.2 after takeoff.
- ☐ **Proceed direct to the Hayward Civic Center below 1,500' MSL.** Please do not fly towards Cal State Hayward.

Oakland Class C airspace is 1,500' MSL and above – do not enter without establishing two-way communications with ATC.
NorCal Departure - 125.35

- ☐ Monitor Hayward Tower 120.2 until abeam Lake Chabot or Cal State Hayward.
- ☐ Proceed on course to overhead VPDUB (the I580/I680 freeway interchange). **Note the Livermore Class “D” airspace ahead – 2,900' MSL and below.**
- ☐ If you proceed to the LVK Class D, enter the LVK area above 2,900' unless clearance for lower altitude transit is received from ATC.
Livermore ATIS - 119.65 Tower - 118.1
- ☐ When clear of the LVK area, proceed on course to the first mandatory checkpoint. Altitude and heading are at your discretion.

Procedure continues on page 21.

☐

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Procedure continues on page 21.

HWD DEPARTURE DIAGRAM



HWD DEPARTURE DIAGRAM



HWD – RDD CHECKPOINTS

☐ Checkpoint 1 Del Mar Farms (CN99)

OPTIONAL BONUS

Elevation 65' Lat N 37° 32.79'

Overfly Above 2500' Long W 121° 09.51'

How many hangars/building are located at the northwest end of this runway:

A. 2

B. 3

C. 4



☐ Checkpoint 2 Ione Prison (nearVC004)

Elevation 375' Lat N 38° 22.44'

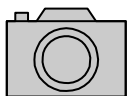
Overfly Above 2500' Long W 120° 56.38'

There are two prison facilities here. The smaller one to the east has a distinctive roof color of:

D. Green

E. Red/Orange

F. Black and white stripes



Continue to next page.

HWD – RDD CHECKPOINTS

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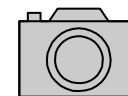
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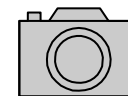
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Continue to next page.

☐ Checkpoint 3 Folsom High School

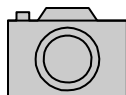
Elevation ~320' Lat N 38° 38.72'
Overfly Above 4500' Long W 121° 09.42'

The school's football field is blue surrounded by a red track. The school name and mascot (Folsom Bulldogs) are where?

G. Not displayed

H. End zones and in the track lanes

I. Only in the track lanes



☐ Checkpoint 4 Richter (12CN)

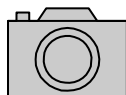
Elevation 56' Lat N 39° 16.47'
Overfly Above 3500' Long W 122° 07.00'

There are several buildings at the north end of this runway:

J. one of them is quonset-style

K. one of them is hexagonal in shape

L. both answers J and K are true



☐ Checkpoint 3 Folsom High School

Elevation ~320' Lat N 38° 38.72'
Overfly Above 4500' Long W 121° 09.42'

The school's football field is blue surrounded by a red track. The school name and mascot (Folsom Bulldogs) are where?

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H. End zones and in the track lanes

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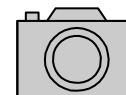
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There are several buildings at the north end of this runway:

J. one of them is quonset-style

K. one of them is hexagonal in shape

L. both answers J and K are true



- ☐ From Checkpoint 4, it is recommended that you proceed to the Haigh Airport (O37) or Corning (004).
- ☐ Stay east of I-5 to remain clear of the RBL traffic pattern. **Remain above 2,000' until passing RBL.** RBL pattern altitude is 1,352' MSL.
- ☐ **Copy Redding ATIS 124.1 as soon as possible.**

Procedure continues on page 24

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Procedure continues on page 24

REDDING ARRIVAL TIMING IDENTIFICATION

‘Howie’	Frequency	122.9
Lat 40° 21.893’	Long	122° 13.042’
Field Elevation		615’

The timing line is on the runway at the Lake California airport (68CA). The line is directly in front of the only house on the west side of the field, at the north end. Fly a low pass over the runway, south to north. The timing line is approximately 10 nautical miles from Redding Municipal Airport.

Required altitude over the timing line is 1115’ MSL.



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REDDING AREA TIMING (Howie) APPROACH

From abeam and to the east of Red Bluff (RBL), track 360° true until the houses on Lake California are visible. Refer to the pictures on the next page.

- ☐ **Abeam Red Bluff, call the timers on 122.9.** *Example “Checkpoint Howie, Race Two-Four at Red Bluff, inbound for timing.”*
- ☐ **Transponder code to 1203** so Redding Tower will recognize you as a rally aircraft. You do not need to contact Redding Tower unless you are requesting their services.
- ☐ **Five (5) miles south of Howie by your estimate: Landing lights on, and report to timers.** *Example “Checkpoint Howie, Race Two-Four is five miles out for timing, lights on.”*
- ☐ Intercept the runway centerline as soon as it is visible.
- ☐ Plan a descent to 1115’ MSL prior to Howie. Caution for powerlines NW-SE, 3 nm south of Howie.
- ☐ **One (1) mile prior to Howie, passing Lake California “houses on the lake” on the right: Report to timers.** *Example “Checkpoint Howie, Race Two-Four, one mile final for timing.”*

DO NOT FLY OVER THE TIMERS! They are located west of Lake California’s 14-32 runway, at the only house on the northwest end. Please cross the timing line at 1115’ MSL, maintaining runway centerline.

When you cross the line, the timing officials should confirm on 122.9 that they have recorded your time. Your actual “clock time” will not be reported. **After crossing the timing line, climb immediately, continue straight out on runway heading, and contact Redding Tower.**

Procedure continues on page 26

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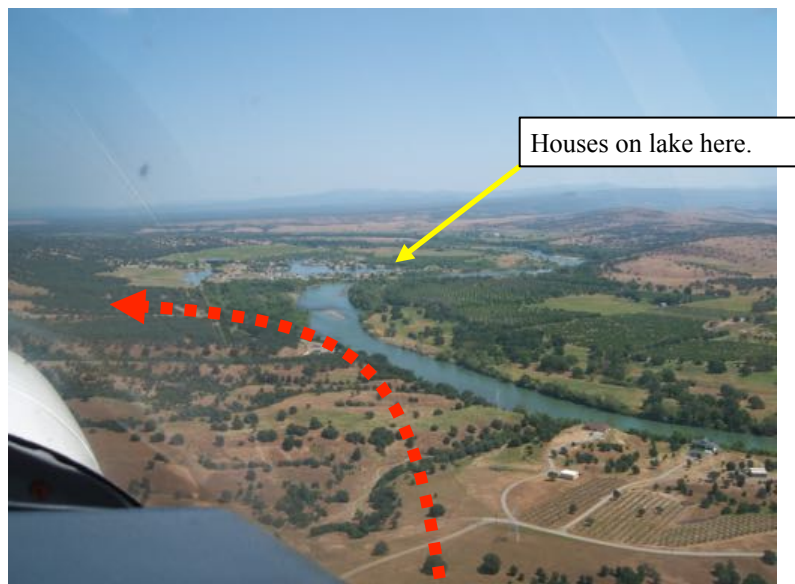
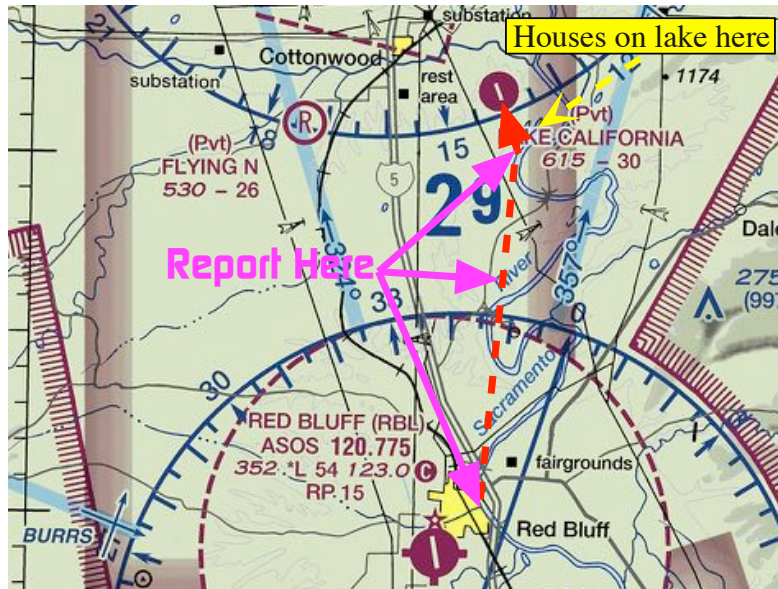
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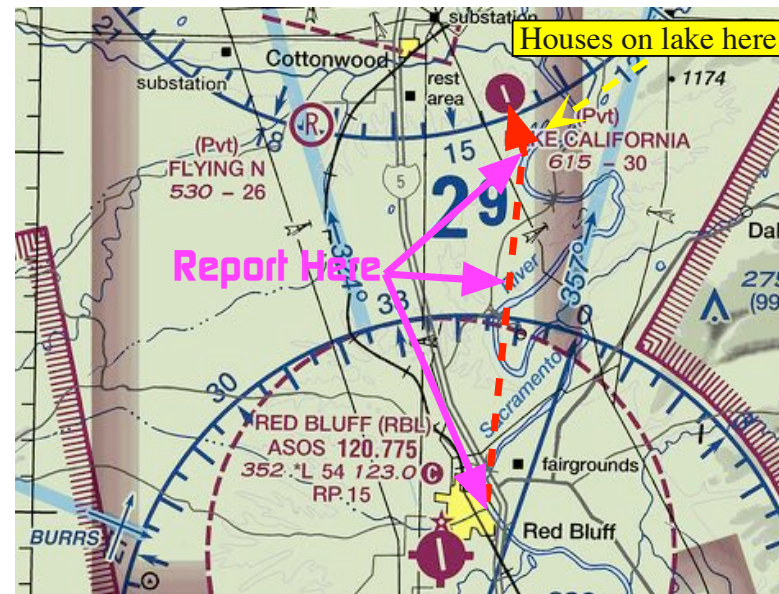
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Procedure continues on page 26

HOWIE APPROACH VIEWS



HOWIE APPROACH VIEWS



RDD AIRPORT ARRIVAL

- ☐ Copy Redding ATIS – 124.1, as soon as practical.
- ☐ **Departing Howie, start a climb to 1500' MSL, continue straight-out, and contact Redding Tower – 119.8.** Advise the Tower that you are inbound for landing. *Example* “Redding Tower, Race Two-Four, a Beechcraft Bugsmasher is departing Lake California, inbound with information Alpha for landing.”
- ☐ You can typically expect a landing on either runway 16 or 34 depending on wind. Note that Runway 30 may not be available on the date of the rally.

Note that any go-arounds, extended pattern entries, etc. will not be penalized. You have already been timed and you can request a fuel adjustment (vector) prior to fueling with a ramp official present.

After landing, exit at the first available taxiway, unless otherwise instructed by the Redding tower. Upon exiting the runway:

- ☐ **Contact Redding Ground – 121.7.** Ground will direct you to the rally parking area.
- ☐ **Follow the directions of rally flagmen as you approach the ramp.**

When you are parked, you will be met by a ramp official and a fuel truck. Fueling must be supervised by a ramp official – don't forget to declare any “fuel vector” requested, BEFORE starting to fuel, if necessary.

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- ☐ **A rally official must be present during refueling, and the truck fuel meter must be covered prior to fueling.**
- ☐ **Verify that the truck fuel meter has been set to zero prior to covering.**
- ☐ **GPS DATA LOGGER SWITCHED OFF or App logging stopped.**

The pilot or copilot must remain with the aircraft until fueling is completed. When released by the ramp official, you may proceed to the Redding Jet Center FBO building.

Free bottled water is available, immediately outside the entrance door to the FBO by the vending machine. Pick it up as you go inside. Please be prepared to pay for your fuel at the FBO counter. See the contact information on page 8 for which payment methods will be accepted by the FBO.

In the second-floor conference room, the Mount Shasta 99s will have a deli box lunch available for a cost of \$10.

- ☐ Free wireless internet access and a flight briefing room are available in the FBO for updating weather briefings and flight plans. Ask the Jet Center front desk for the WiFi password.

Procedure continues on page 29.

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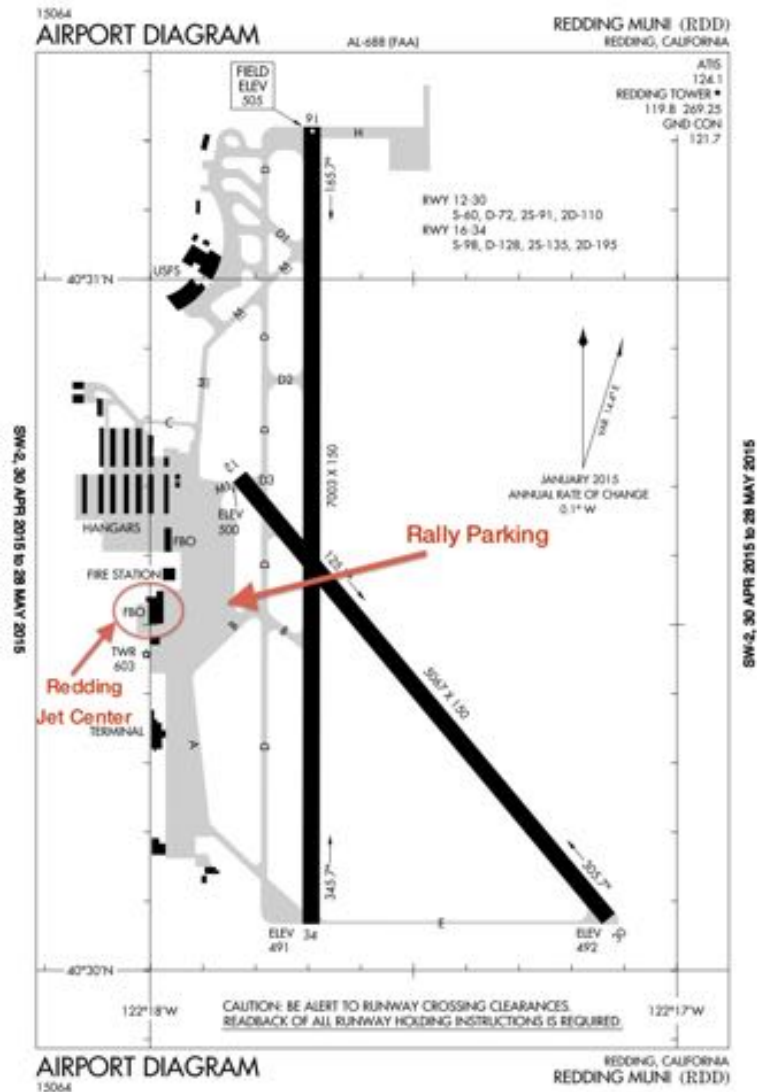
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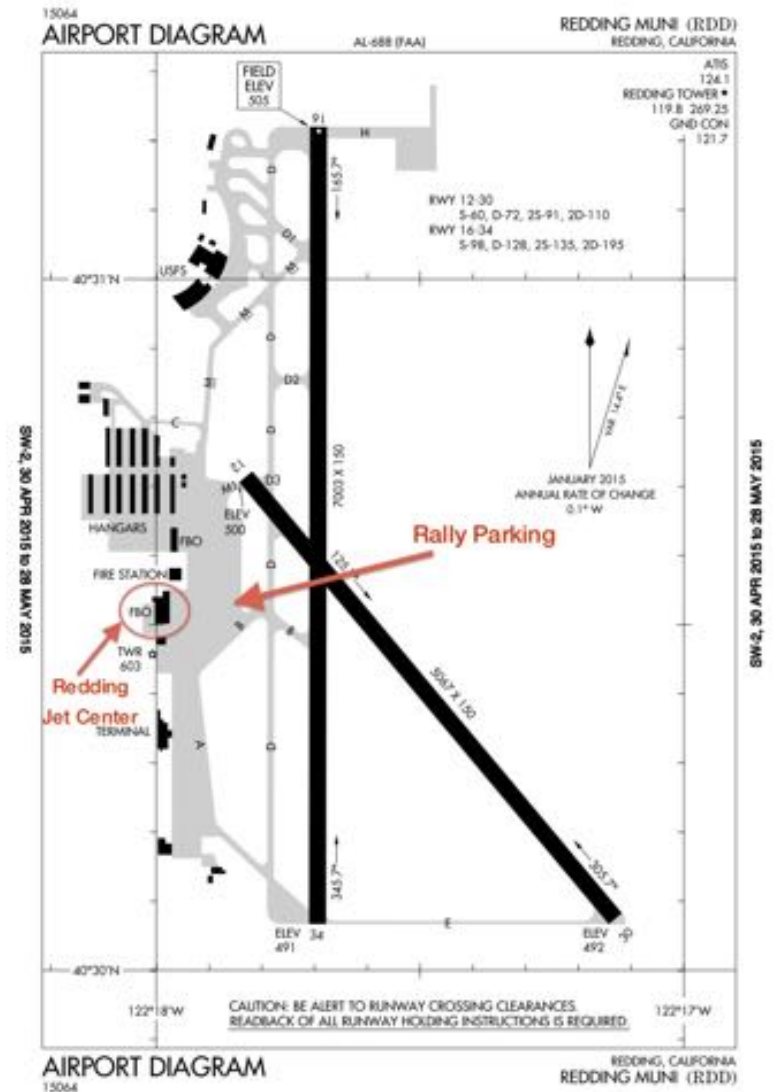
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RDD AIRPORT DIAGRAM



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RDD DEPARTURE PROCEDURES

- ☐ Copy ATIS on 124.1 before engine start.
- ☐ Rally Score Sheet (“Fuel and Time Estimate Log”) inside cockpit.
- ☐ Review the departure diagram on the next page.
- ☐ **GPS DATA LOGGER SWITCHED ON or App Logging started.**
- ☐ **Call Ground Control on 121.7 for taxi clearance.** Expect Runway 34 in use for departures.

After completing your run-up:

- ☐ **Switch to Redding Tower on 119.8.** No call is necessary until you are number one to go.
- ☐ **Transponder on to 1203 with ALT.**

Standard departures are straight out from Runway 34, or left downwind from Runway 16.

- ☐ **Taxi up to and HOLD SHORT of 34. When you are number one for takeoff, call the Tower on 119.8.** Advise them you are ready for takeoff with a straight-out departure. *Example “Redding Tower, Race Two-Four ready at 34 for straight-out.”*
- ☐ **TOWER WILL CLEAR YOU FOR TAKEOFF.**

The rally timers are located on the left shoulder near the beginning of 34, and are monitoring tower frequency. **When tower says “cleared for takeoff”, taxi into position and hold (aka line up and wait).** Look at the timers to give you a countdown to go: 10 seconds, 5 seconds, then a drop of the flag. Start your takeoff roll at the flag drop. Your timing for the second leg of the rally will begin when the timers drop the flag.

Continue to next page.

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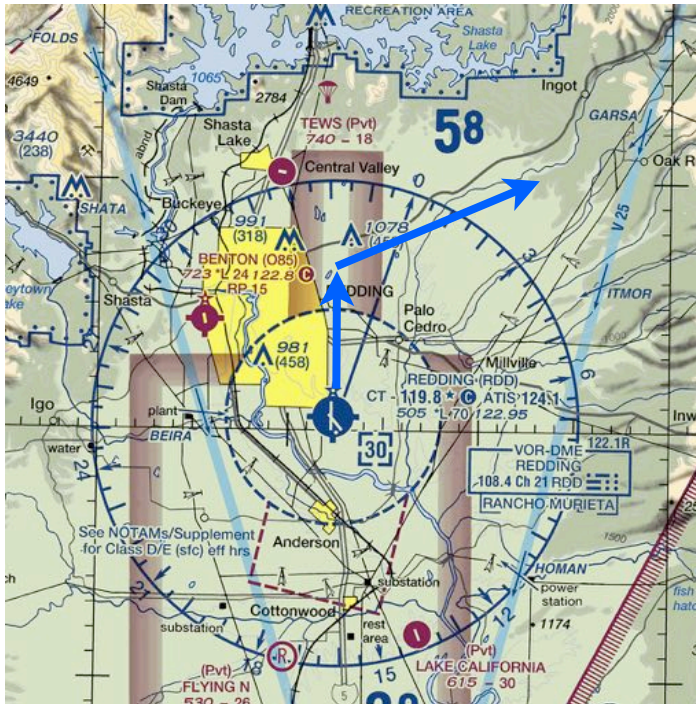
Continue to next page.

For an orderly transition out of the area, proceed northwest until well clear of the RDD traffic pattern and Class D airspace.

- ☐ **Monitor Redding Tower on 119.8.** No further call is necessary unless you are requesting ATC assistance.

When safely clear of the Class D to the north, there is no further need to monitor RDD Tower, and you may leave the frequency without asking Tower for a frequency change.

- ☐ **Monitor the air-to-air frequency 122.75.**
- ☐ Proceed on course to your first checkpoint.
- ☐ **Review your ETA to Reno on page 10, and update your Flight Plan with FSS as necessary.**



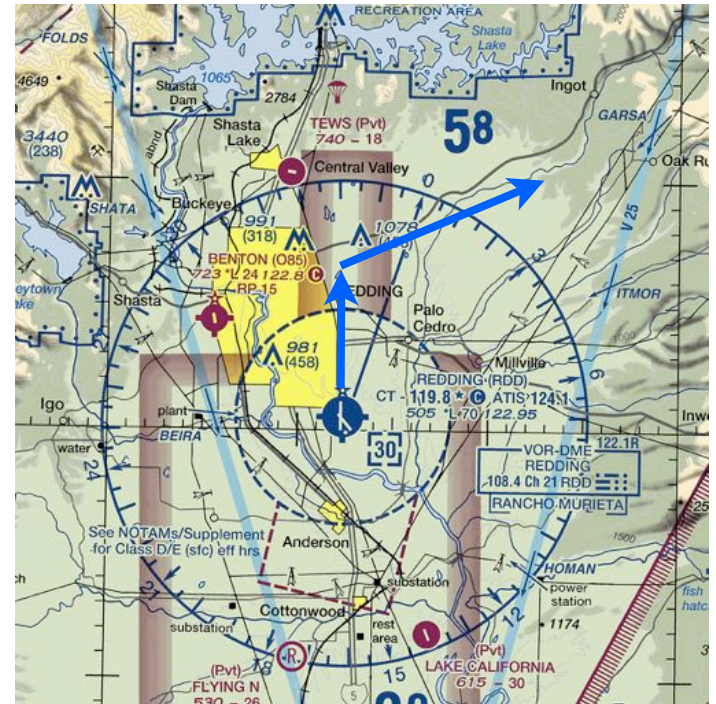
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For an orderly transition out of the area, proceed northwest until well clear of the RDD traffic pattern and Class D airspace.

- ☐ **Monitor Redding Tower on 119.8.** No further call is necessary unless you are requesting ATC assistance.

When safely clear of the Class D to the north, there is no further need to monitor RDD Tower, and you may leave the frequency without asking Tower for a frequency change.

- ☐ **Monitor the air-to-air frequency 122.75.**
- ☐ Proceed on course to your first checkpoint.
- ☐ **Review your ETA to Reno on page 10, and update your Flight Plan with FSS as necessary.**



Continue to next page.

RDD – RTS CHECKPOINTS

☐ Checkpoint 5 Burney Sawmill

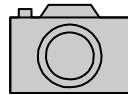
Elevation: ~3207' Lat N 40° 52.31'
Overfly Above: 5500' Long W 121° 42.06'

About 2-3 nm west of the town or Burney a sawmill is charted:

M. It is now a warehouse

N. Just piles of sawdust

P. there are actually 2 sawmills, one with blue buildings, one with green buildings



☐ Checkpoint 6 California Pines (A24) *OPTIONAL BONUS* CTAF: 123.0

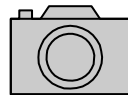
Elevation: 4389'
Pattern Altitude: 5189' Lat N 41° 24.74'
Overfly Above: 6500' Long W 120° 41.03'

On north side of runway 23 near the approach end is:

R. A segmented circle

S. A new parallel taxiway

T. A billboard with Eric Estrada's picture



Continue to next page.

RDD – RTS CHECKPOINTS

☐ Checkpoint 5 Burney Sawmill

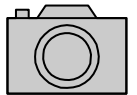
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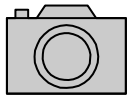
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Continue to next page.

<input type="checkbox"/>	Checkpoint 7	Fire Control Station
--------------------------	--------------	----------------------

Elevation: ~ 5500'	Lat	N 40° 46.11'
	Long	W 120° 43.53'

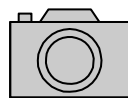
Overfly Above 6500'

At this location you can see:

U. Several  marked helipads

V. Missile launch site

W. A fenced in compound



<input type="checkbox"/>	Checkpoint 8	Spaulding (1Q2)
--------------------------	--------------	-----------------

CTAF: 122.9

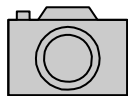
Elevation: 5116'	
Pattern Altitude 5915'	Lat N 40° 39.02'
Overfly Above: 7000'	Long W 120° 46.11'

This airport has:

X. A full length taxiway parallel to the runway

Y. A dozen marked tie downs at Rwy 16

Z. A new hangar at the approach end of Rwy 16



<input type="checkbox"/>	Checkpoint 7	Fire Control Station
--------------------------	--------------	----------------------

Elevation: ~ 5500'	Lat	N 40° 46.11'
	Long	W 120° 43.53'

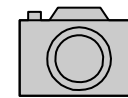
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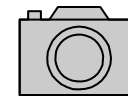
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- ☐ From the last checkpoint, proceed to Constantia (N39°57.03' W120°02.58') for start of Timing Line 'Hallelujah' approach.
- ☐ Copy the Reno/Stead AWOS 135.175 as soon as possible.

Procedure continues on page 35.

- ☐ From the last checkpoint, proceed to Constantia (N39°57.03' W120°02.58") for start of Timing Line 'Hallelujah' approach.
- ☐ Copy the Reno/Stead AWOS 135.175 as soon as possible.

Procedure continues on page 35.

RENO ARRIVAL TIMING IDENTIFICATION

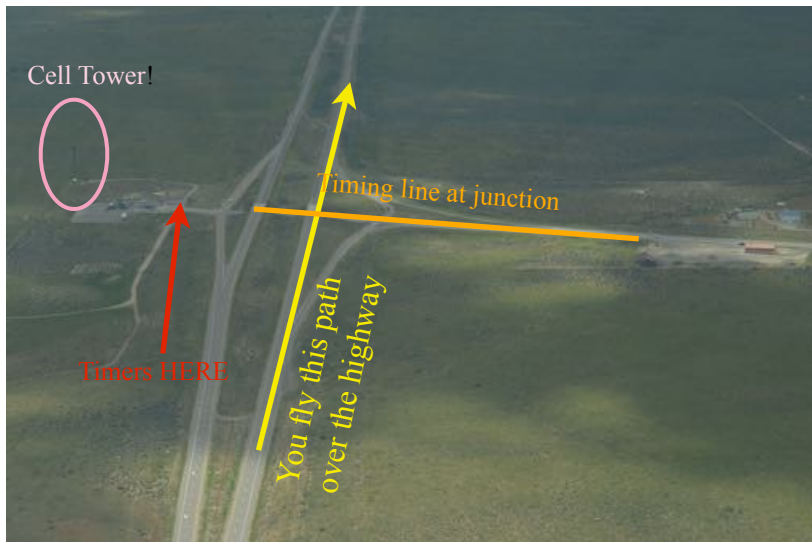
Hallelujah **Frequency 122.75**
Lat N39° 46.47' Long W120° 02.30'
Ground Elevation **~5040'**

Overfly the Highway at 6000' MSL

The timers are located east of the highway junction Hallelujah Junction at the gas station. Fly directly over the highway, from north to south, maintaining highway centerline of the southbound lanes. The timing line is approximately 11 nautical miles from Reno Stead Airport.

Use caution for a microwave/cell tower at the southeast corner of the gas station east of the junction.

Required altitude over the timing line is 6000' MSL.



RENO ARRIVAL TIMING IDENTIFICATION

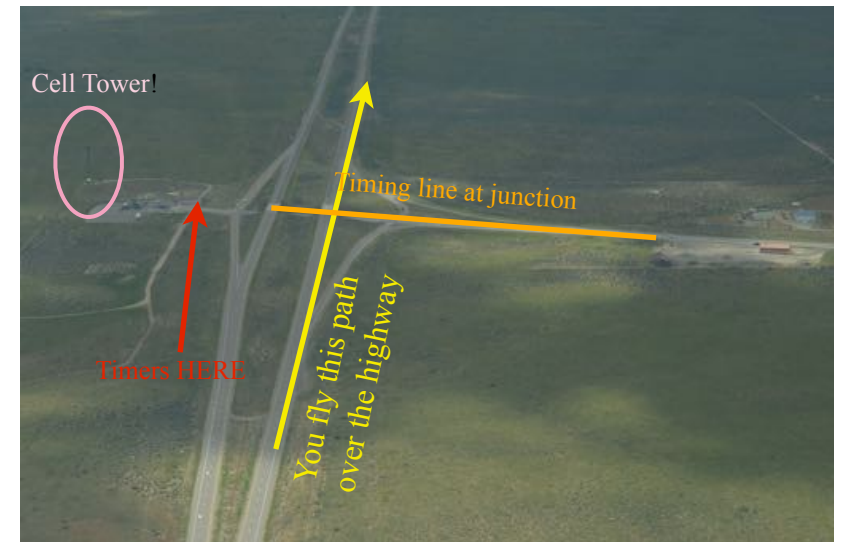
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RENO AREA TIMING (HALLELUJAH) APPROACH

At Constantia, you are approximately 10 miles from the timing line. Refer to the diagram on the next page.

- ❑ **Overhead Constantia: Call the timers on 122.75.** *Example “Checkpoint Hallelujah, Race Two-Four at Constantia, inbound for timing.”*

The Hallelujah timing officials might not reply until you are much closer to their location.

- ❑ From Constantia, fly southerly, following the clearly visible US395 highway towards Hallelujah.
- ❑ **Five (5) miles out, there is a mine on the west side of the highway: Landing lights on, and report to timers.** *Example “Checkpoint Hallelujah, Race Two-Four 5 miles for timing, lights on.”*
- ❑ Plan your descent to 6,000’ MSL prior to Hallelujah.
- ❑ **Two (2) miles north of Hallelujah, Report to timers.** *Example “Checkpoint Hallelujah, Race Two-Four is two miles for timing.”*

The Hallelujah timing line is the intersection of the Highways US 395 and CA 70.

DO NOT OVERFLY THE TIMERS! The timers will be to the east of the highway. Remain over the highway. Please cross the timing line at 6,000’ MSL.

When you cross the timing line, the timing officials should confirm on 122.75 that they have recorded your time. They will not report your actual clock time; only an acknowledgement that your time has been recorded will be made.

Procedure continues on page 37

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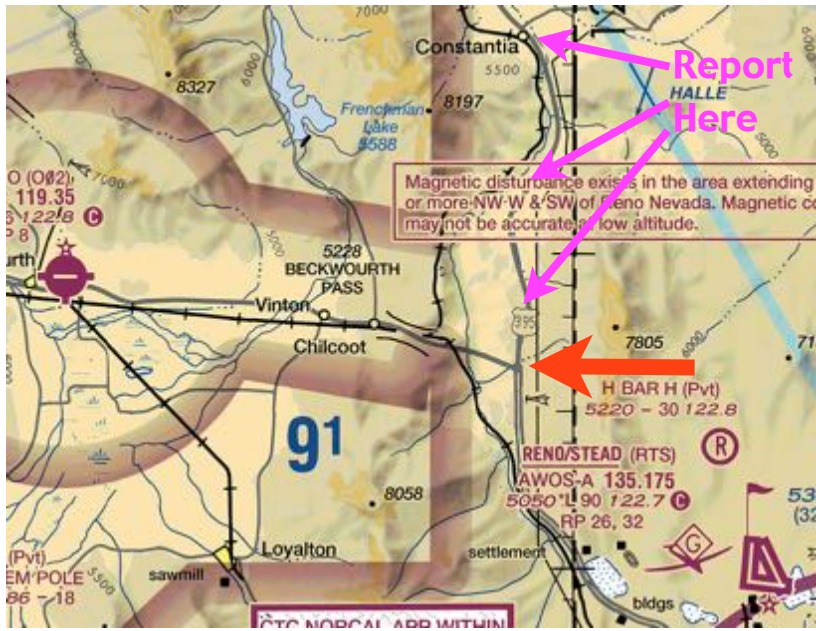
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Procedure continues on page 37

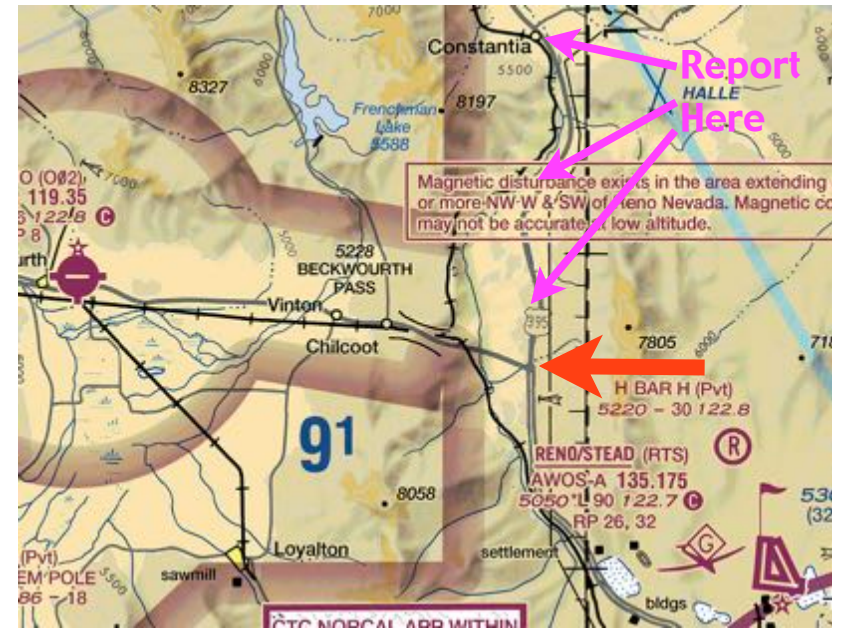
HALLELUJAH APPROACH VIEWS



Not true scale



HALLELUJAH APPROACH VIEWS



Not true scale



RTS AIRPORT ARRIVAL

At the timing line you are approximately eleven (11) miles from Reno /Stead Airport.

- ❑ **Departing Hallelujah, start a climb to 6,500' first, then turn towards RTS when clear of terrain, copy the AWOS on 135.175 and contact Reno/Stead Unicom on 122.7.**
Advise airport users that you are inbound for landing.
Example "Stead Traffic, Race Two-Four, a Cirrus SR22 for landing."

Do not extend your approach to RTS to the south. The shelf portion of RNO Class C airspace extends to RTS.

Pattern altitude is 5,850'. Right traffic for runways 26 and 32. Proceed to overhead the Reno/Stead airport at or above pattern altitude of 5,850'. Enter the appropriate traffic pattern for the runway in use. *DO NOT fly a straight in approach* if runway 8 is in use.



Not true scale
Procedure continues on page 39

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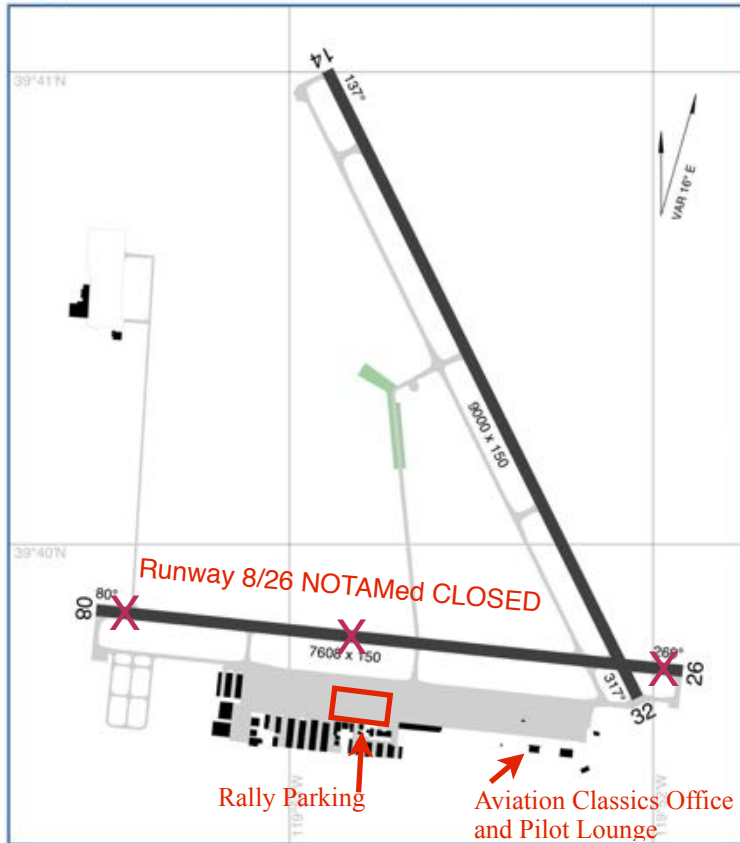
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Not true scale
Procedure continues on page 39

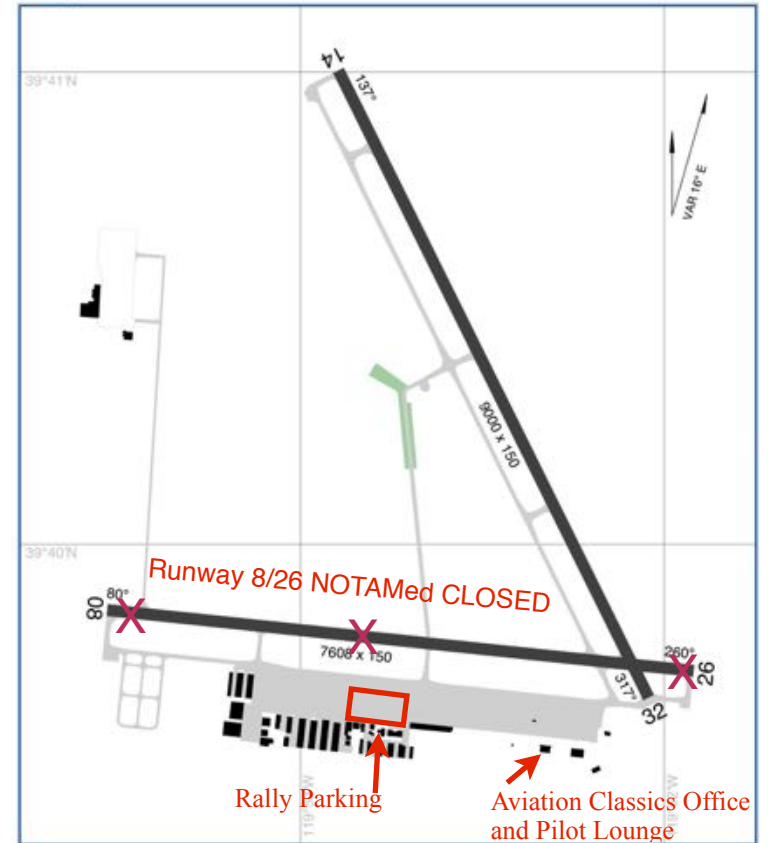
RTS AIRPORT DIAGRAM

KRTS: RENO/STEAD
RENO, NV



RTS AIRPORT DIAGRAM

KRTS: RENO/STEAD
RENO, NV



Any number of go-arounds, extended patterns due to traffic, etc., will not be penalized. You have already been timed and you can request a fuel vector adjustment prior to fueling with a ramp official present.

Rally parking is on the east end of the main ramp, near Aviation Classics. Upon exiting the runway, look for rally officials to guide you to parking.

When you are parked and out of the airplane, you will be met by a ramp official and a fuel truck. Fueling must be supervised by a ramp official – don't forget to declare any "fuel vector" requested if necessary.

- ☐ **"Prohibited cockpit equipment" status will be verified on ramp arrival.**
- ☐ **A rally official must be present during refueling, and the truck fuel meter must be covered prior to fueling.**
- ☐ **Verify that the truck fuel meter has been set to zero prior to covering.**
- ☐ **The rally official will verify that the as-fueled fuel tank configuration matches the scoring form**

The pilot or copilot must remain with the aircraft until fueling is completed. When fueling is complete, you will be expected to complete your rally scoring form including all your checkpoint answers. The ramp official will then collect the GPS logging device and the final scoring copy, leaving you with a pink copy for your records.

Please be prepared to pay for your fuel at the FBO office. Payment methods accepted by this FBO are listed on page 8.

Continue to next page

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- ☐ **Is your Flight Plan closed?** You must close your flight plan with FSS prior to landing at RTS, or using normal procedures after landing. *The airport and FBO staff do not close rally flight plans on arrival.*
- ☐ **GPS DATA LOGGER SWITCHED OFF or App logging STOPPED.**
- ☐ **Remove your race numbers, if tape has been used.** The high-desert sun could damage your paint if tape-applied numbers are left on the airplane.

Courtesy transportation to the hotel is available; ask any ramp volunteer for directions. If you reserved a rental car in advance, it should be available at the FBO.

Please take everything you will need at the hotel at this time, including your remaining pink copy of the rally scoring form.

The parking ramp at RTS is accessible 24 hours daily. The FBO at Reno has normal operating hours of 0730-1800 (Fri) and 0800-1700 (Sat-Sun). *A fee may be charged by the FBO for callout, outside of normal business hours.*

Renaissance Reno Downtown by Marriott: The shuttles can drop you at the front desk. The hotel staff will be able to check you into your room at the front desk.

☐

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HOTEL ACTIVITY INFORMATION

HOSPITALITY SUITE

Room TBA, Renaissance Reno Downtown by Marriott
1 South Lake Street
Reno, NV 89501

Friday: ~1400 – 2300

Saturday: 0800 – 1630 & 2000 – 2300

AWARDS DINNER - SATURDAY

Ballroom, Renaissance Reno Downtown by Marriott

No-Host Cocktails start at 1730

Dinner and Presentations 1800 – 2100

SUNDAY DEPARTURE

Shuttles will be available at the front of the hotel. Please check-out of the hotel at the front desk before going to the airport. Our rally committee van will be running continuously from 0700 to 1030. The hotel van will be available starting at 1100.

Thank you for participating in this year's Air Rally. We sincerely hope you had an enjoyable time. Please e-mail us with your comments: info@hwdairrally.org

HELP WANTED

Get in on the gargantuan planning effort for the 2019 Hayward Air Rally. Here is a prime opportunity to pad your resume with non-profit organization expertise. Yes, we even pay you .. well, sort of. Contact Tom Neale, Kim Purcell or Sam Sun for more details.

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ACKNOWLEDGEMENTS

The Hayward Air Rally is only possible through the generous help of all our friends in the community.

As you can see from the Committee and Volunteers list earlier in this document, it takes at least as many people (dozens!) to organize and run this event as compete in it!

In addition to our many volunteers, we ask many companies and other organizations for financial support and product donations to enhance the event and sweeten the pot for our competitors.

We rely on the City of Hayward for their continued support and guidance, and we depend on the pilot community at large to continue to grow the Rally in size and also expand our youth EAA camp scholarship program. A portion of your entry fees are considered a tax-deductible contribution to our scholarship fund.

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