Checklist for Flying Drones Legally at Robson Ranch, TX. START AT 5 AM AND FLY BY NOON!!!

1. Charge drone batteries, controller and phone/tablet and any additional equipment like strobes for night flight and LED SHOW for messages.
2. Liability insurance (Verify)?
3. Check for software/firmware upgrades.
4. Backup any footage on drone SD and replace. Carry a spare SD card in your bag for "Just in case".
5. First aid kit for cuts and penetrations not a bad idea.
6. Check the weather with UAV FORECAST or similar. (UAV is from local airports NOT where you are located, but a good conservative guide)
7. Lay out a flight route with points where photos will be taken and or automated flight sections will be used (Asteroid for example).
8. Pick the parameters for video and photo segments.
9. Pull up a sectional and check for controlled airspaces.
10. Mark controlled airspaces on your flight route, note programs used to prepare for the flight as well as any obstacles.
11. Review Flight Test Community Association (FTCA) or similar Community Based Organization (CBO) rules. A printed copy is nice to carry.
12. As needed, apply for LAANC approval for controlled airspaces. Print out approval texts as they arrive.
13. Unfold the drone and remove the gimbal cover.
14. With the propellers off, do a dry run of the flight route with drone, controller and phone/tablet on. Set function switch as applicable. Switch parameters as needed during the dry run of the route.
    I prefer to set my drone to Return to Home (RTH) if the signal is lost or problems occur.
15. Top off the batteries and clean camera/filter lens.
16. Insure IMSAFE (Illness, Medication, Stress, Alcohol, Fatigue, Emotions), you're fully ready for flight, no drugs, rested and ready.
17. Check the drone, controller and phone/tablet (and additional equipment) for any damage or errors. Especially check the blades for nicks, cracks or loose screws. Set screen to full bright for
    day flights.
18. Pack the drone system for travel. Insure you have an appropriate landing pad and sun shade/strobes as needed.
19. Insure you have: an SD card in the drone, your registration (if required), your Recreational Drone Certification (The Recreational UAS Safety Test - TRUST), your flight route map and a copy of
    the local CBO rules you will be flying under with a short statement of the purpose of the flight.
20. Travel as necessary to an area clear of obstacles and interference. Lay out a landing pad and weight or stake down as necessary. Unpack and unfold the drone. Attach strobes and any

lenses that will be used. Set the drone on the launch pad and turn on your phone/tablet. Activate the software you will use. Review your flight route. Turn on the controller (attached to your

video) your strobes and the drone. Check the signal strength and the GPS (number of satellites locked, nine minimum). Check camera settings.

21. Check the area and the air for wind, people, Kp index (electronic interference from ALOFT) and aircraft.

22. Check your Return To Home altitude setting and flight Mode (on controller).

23. Start your video if desired and launch your drone up 30 feet, pause for 15 seconds, to establish home point, then continue to fly the planned route.

24. While flying;

A. Maintain Visual Line Of Sight (VLOS).

B. Regularly check the area for air traffic.

C. Use a buddy if available to help you follow the flight path planned to get in all the video, photos and automated segments especially use an observer/buddy for FPV and night flights.

D. I recommend your Observer also be certified so he will know when to warn you of issues or problems.

E. Develop a scan to stay aware of: battery time remaining, signal strength, any warnings on the screen, orientation and location of the drone via the "Compass" with multifunction indicators

and map. Stay aware of any sharp dips in the horizontal line that indicate wind gusts affecting the drone.

F. Avoid fixating on the image while trying for video of photos.

G. Stay aware of obstacles in the area, especially where you have no sensors to avoid obstacles in the direction your drone is moving. Never back up or move sideways without clearing the

drone of obstacles.

25. Once the flight is completed and the drone landed, with accessories shut off, check the blades for damage if practical. Download images from the SD card in the drone to your phone/tablet

storage. (Change low resolution cache images to full resolution in "ALBUM")

26. Fold the drone, replace the gimbal cover and pack for traveling home.

27. Once home, download onboard footage (as found in the AIR 2S internal) and remove your SD card to transfer information to permanent storage on your home computer and/or CLOUD. Place the SD

card back in the drone. Charge the drone and controller batteries to approximately 75% for storage. Recharge any accessories as needed.

28. Review your images and compare to the flight route to see if you accomplished all your goals. Note any difficulties for future flights.

SAMPLE FLIGHT

OBJ

LAANC APPROVAL FOR DENTON AIRPORT CLASS D THROUGH ALOFT. AREA VERIFIED BY SECTIONAL. WEATHER FROM UAV FORECAST.

VIDEO ON -TAKE OFF FROM HOME POINT. WEST PAST ROBSON BLVD VIDEO OFF - AEB 3 IMAGE PHOTO OF CONSTRUCTION TO THE WEST - VIDEO ON - SOUTH TO JUST SHORT OF CRESTVIEW - VIDEO OFF - AEB 5 IMAGE PHOTO OF THE CLUB AND ATHLETIC COMPLEX WITH VIEW SOUTH - VIDEO ON - EAST TO GARDENIA - VIDEO OFF - AEB 3 IMAGE OF CONSTRUCTION TO THE EAST - VIDEO ON - NORTH TO DOWNING - EAST 50 FEET - HELIX QUICKSHOT - WEST TO FRANKLIN - RTH TO HOME POINT.