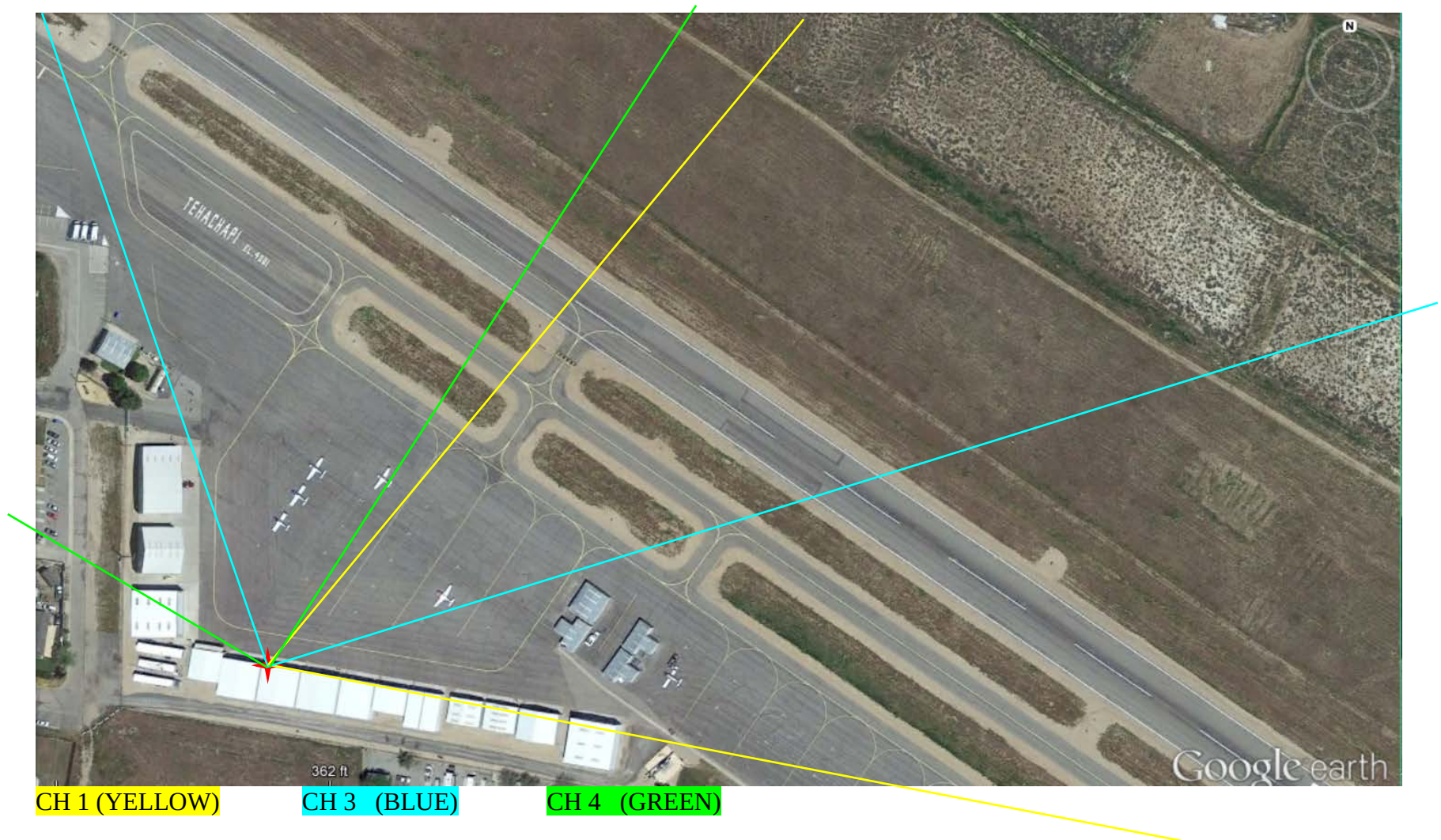


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Surveillance Cameras (near Transient Parking)

Camera CH	Direction	Left Frame Edge	Right Frame Edge	Airplane Events Captured	Remarks
1	~110° (ESE)	~ twy exiting transient pkg	Hangar fronts	Taxi and takeoff	
3	~020° (NNE)	Edge of fuel pit	Varies (due to camera roll tilt)	PIC finishing preflight, engine start, taxi out, takeoff, descent to impact	Cameral Rolled ~21° CW TSP Beacon & wind tee in view
4	~340° (NNW)	Trisected third hangar	~TSP beacon	Engine start, taxi out, Takeoff, turn to downwind, descent to impact	TSP Beacon & wind tee in view Fuel pit & wind tee almost centered

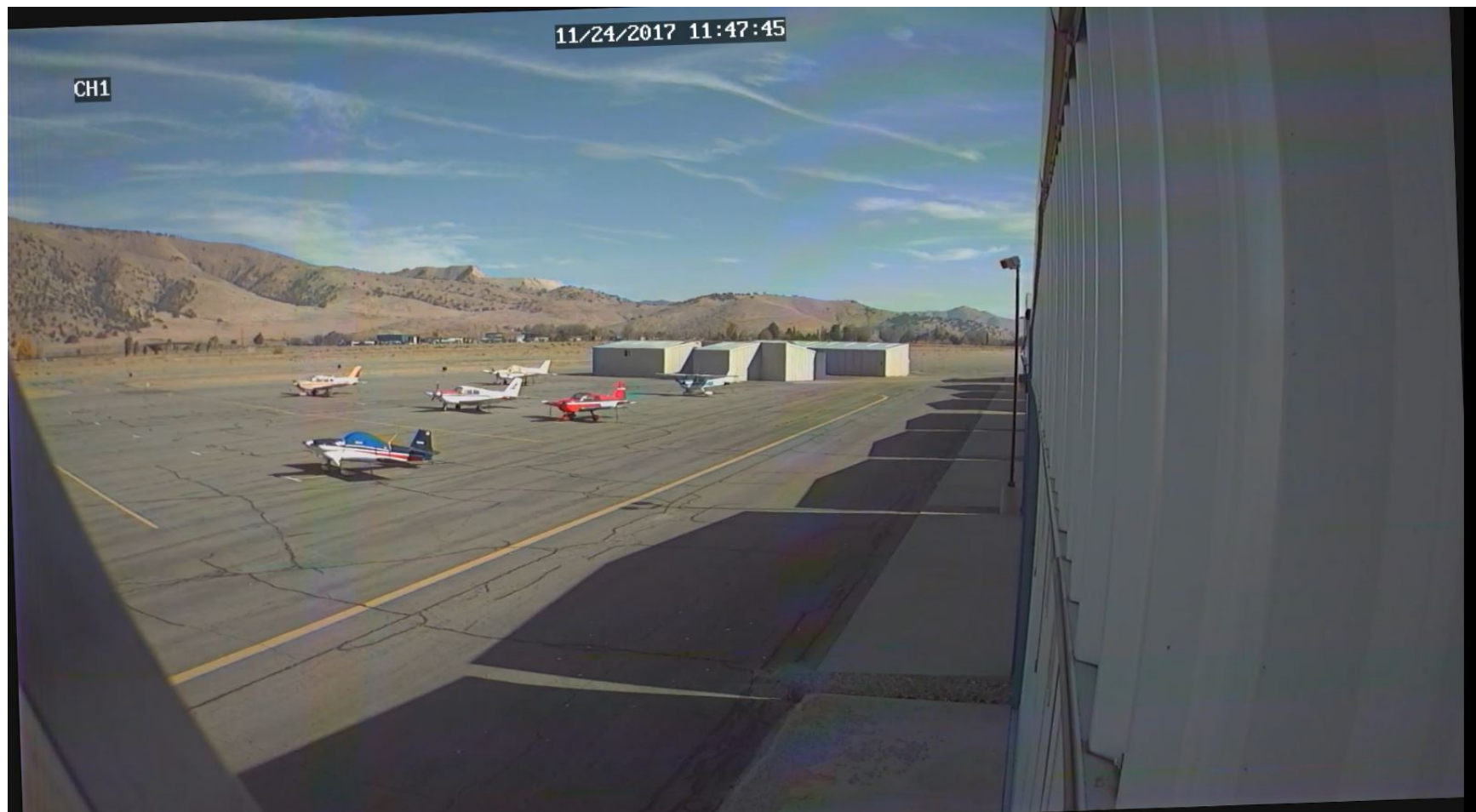
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VIEW ANGLES OF 3 CAMERAS



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CAMERA VIEW (Day, CH 1)



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CAMERA VIEW (Day, CH 3)



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CAMERA VIEW (Day, CH 4)



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SITE GEOMETRY

ID	Parameter	Value	Remarks
a	Camera height (agl)	20'	Estimated on site
b	Camera elevation (msl)	4,009'	3,989 + 20
c	Beacon hill elevation msl	4,062'	GE and airport plan map:
d	Beacon tower height	20'	
e	Beacon elevation	4,082'	
f	Delta h between camera and beacon	73'	4082-4009
g	Elevation angle from camera to beacon		
h	Camera to Beacon distance	1679'	21.14 degs T
i	Camera to rwy CL distance (on straight line b/t camera & beacon)	645'	
j	Rwy elevation at line b/t camera & beacon	3,982	
m	Rwy linear distance from Ch 1 right edge to left edge	1,347'	
n	Rwy linear distance from Ch 3 right edge to left edge	1,376'	
o	Rwy linear distance from Ch 4 right edge to left edge	NA?	View looks well south of rwy end

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KEY CAMERA EVENTS

CHL	EVENT	TIME	Distance Traveled	REMARKS
1	AC First Appears (taxi)	17:52:50		
	Occluded by hangars (taxi)	17:53:09.5	~380'	380' / 19.5s = 19.5 fps = 11.5 kts
	Re-appears (taxi)	17:53:23		
	Out of R frame edge (taxi)	17:53:34	~260'	260' / 11s = 23.6 fps = 13.9 kts
	First Visible (T/O)	17:57:04		
	Occluded by hangars (T/O)	17:57:09		
	Reappears (T/O or airborne)	17:57:13		
	Off Left frame Edge (airborne)	17:57:18	~1,270' from FIRST VIS	1,270' / 14s = 90.7 fps = 53.7 kts
3	PIC Exits A/C (during preflight)	17:45:21		
	PIC Gets back in A/C	17:46:02		
	Engine Start	17:49:22		
	Start Taxi	17:52:02		
	Directly under beacon (taxi)	17:52:38		
	Off Right frame edge (taxi)	17:53:05		
	First Appear (T/O)	17:57:16		
	Off left frame edge (airborne)	17:57:26	1,376'	1,376' / 10 sec = 137.6 fps = 81.5 kts
	Returns to left edge of frame	17:58:02		
	Approx impact	17:58:07		
4	First Appear (airborne)	17:57:19.5		
	Reverses direction in image (airborne)	17:57:45		
	Begins slight descent	17:58:00		
	Begins steep descent	17:58:03		
	Approx impact	17:58:07		

All times are camera system times.

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Surveillance Cameras (near Transient Parking)

KEY FLIGHT EVENTS

Recorded Time	Calculated Time	Event	Remarks
17:46:02		PIC Enters AC after preflight completion	
17:49:22		Engine Start	
17:52:05		Begin Taxi	
	17:53:06	Arrive at runup area	Estimated, Based on taxi speed (14 fps), and distance to go (850') when last seen on Ch 1 at 17:53:04
17:57:04		First visible on T/O roll	
17:57:45		Turn to downwind	Estimated half way through turn
17:58:00		Begin shallow descent	
17:58:03		Begin steep descent	
17:58:07		Approx impact	

All times are camera system times