

Passive control  
embodied logic

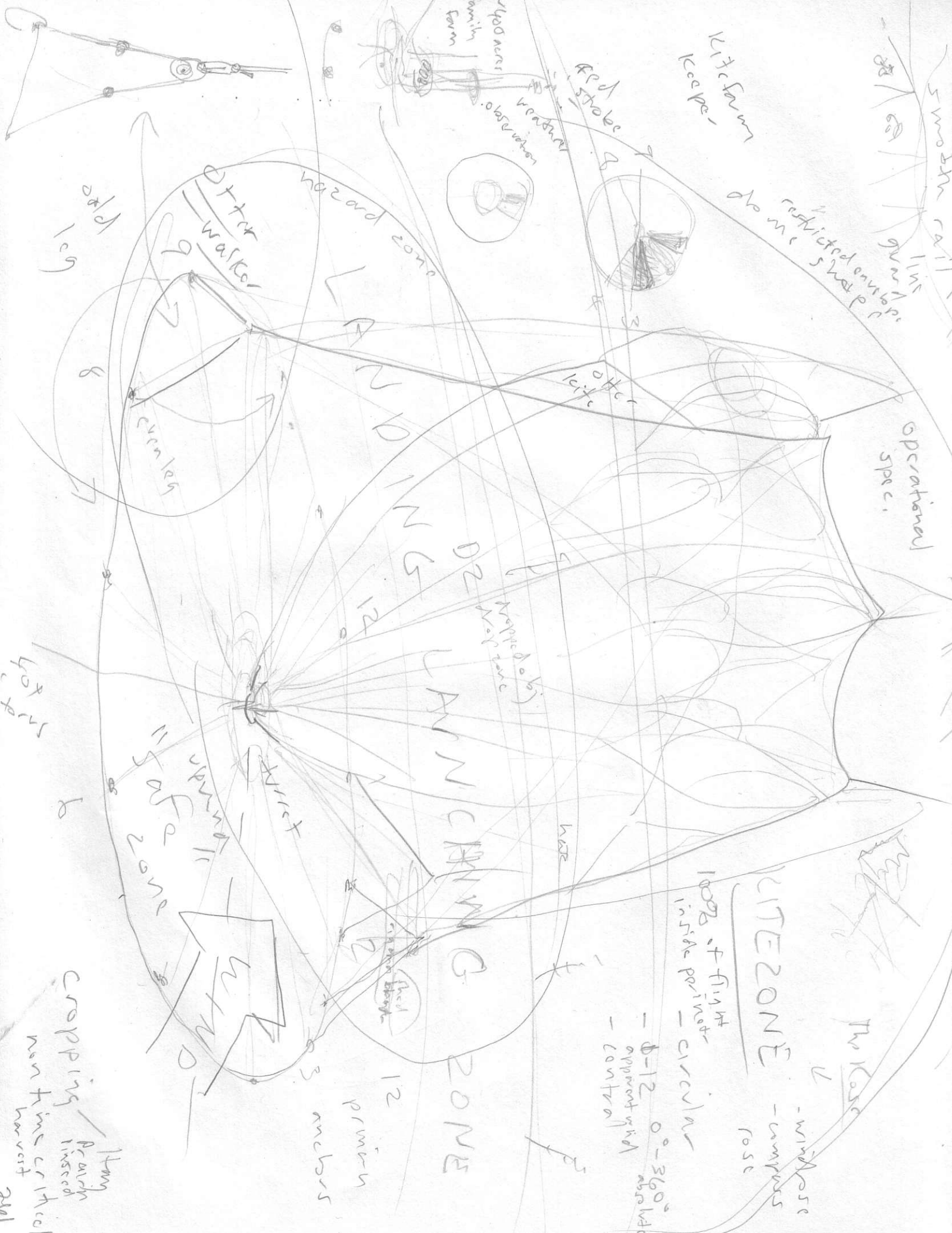
KISS KISS

Showing of  
spinning top  
combines whiplash  
with a physical  
at the tip of  
to the tipping  
force of gravity  
no garted

FALL  
ZONA

bridged  
trim lines

piston low R.  
Hydraulic this n.



5000 ft call  
 1000 ft  
 500 ft  
 250 ft  
 125 ft  
 62.5 ft  
 31.25 ft  
 15.625 ft  
 7.8125 ft  
 3.90625 ft  
 1.953125 ft  
 0.9765625 ft

1717 farm  
 Koope-

Red Stobe



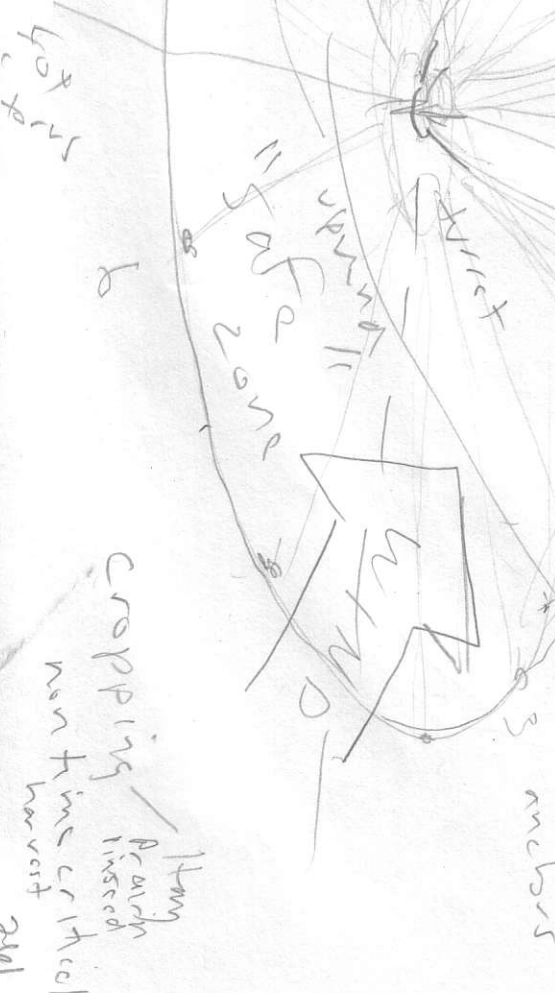
restricted envelope  
 do me 500 ft

operational  
 space

DANGER ZONE

LANCHING ZONE

LITER ZONE



1000 ft flight  
 inside perimeter  
 - circular  
 - 0°-360°  
 - apparent wind  
 - control

- wings  
 - compass  
 rose

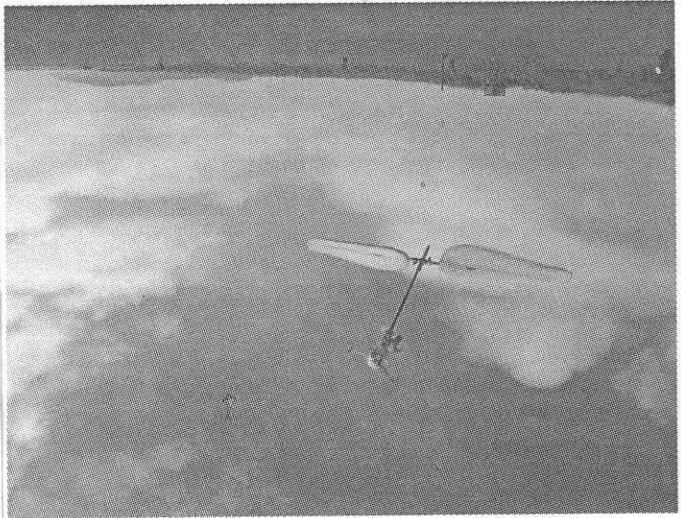
Moose

# Kite Technology Experiment During WSIKF

by Bob Abel

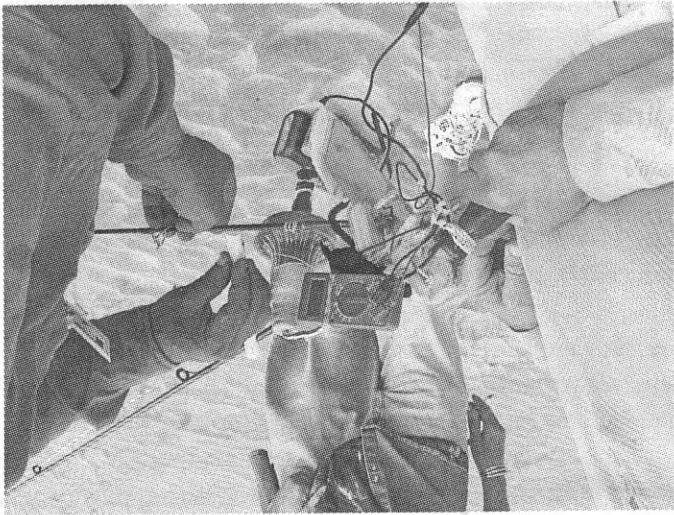
## Harvesting the Wind

David Santos is passionate about kite power. Actually, the Austin-based roboticist/artist/inventor is passionate about a lot of things, but his current focus is on using kites to convert wind energy into electrical energy. Santos believes power from the sky can be used to relieve much of our dependence on oil. His affiliation with Kiteship, a corporation promoting the use of kite power to reduce fuel costs for ocean-going vessels, has gotten him thinking about other methods of harvesting kite power. Santos rode his customized bicycle from Portland to the 2007 Long Beach International Kite Festival to meet with kiting experts and test his prototype kite-launched power generator.



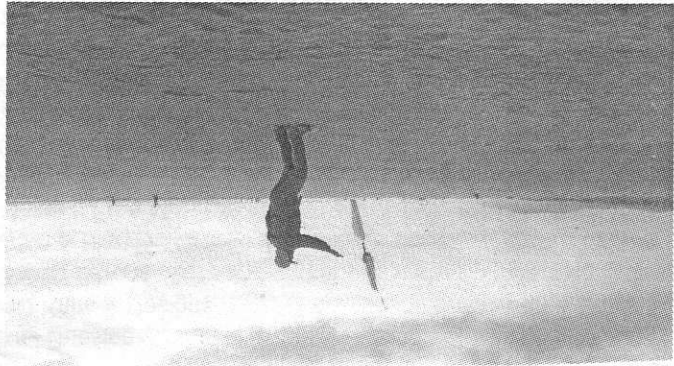
David Santos' turbine, suspended from Dick Curran's noodle, harvests "sky juice". A loop of line connects the spinning turbine to an electrical generator on the ground.

A wind turbine of his own design, suspended from a lifting kite, spins a loop of string attached to an electrical generator on the ground. A week earlier, Santos had generated "sky juice" along the Columbia



Santos' electrical generator powers a lamp and a cell phone. A multimeter measures the output voltage.

Santos will conduct more experiments with his device until he's ready to build a larger version, which he will inevitably continue to tinker with until he is satisfied with the design. He envisions a time when kite farms will provide electrical power to the grid, and when individuals living in the right areas can walk outside, launch some kites with wind turbines attached, and harvest all the energy they need for free. Power to the people!



Santos launches his wind turbine at the 2007 Long Beach International Kite Festival.

Editor: Kay Buesing

Margie Cochrane

Fall 2007

Official Newsletter of the  
**World Kite Museum**  
 & Hall of Fame

THE  
 3 LAYER

202



## From Our Director . . .

*Kay Buesing*

As a perk for AKA members at the Ocean Shores Convention, the Kite Museum in Long Beach, WA will be open everyday of the week through October 16, 2007.



# The Museum Auction Fun and a Financial Success

About the end of June the auction chairman Sharon Absher and her committee got "punctured" by a rain stream and then when the festival starts, there's an awfully right up to when the loud auction starts!

Friday and Saturday chuckling in fear of Chairman Absher's orders, Bob Abel, Don Moore, Glen & MaryAnne LaFave, Mary Zilar, Annette Thompson set up tables, put together kites, etc., etc., etc.

By six o'clock, Sandy Stonebreaker had the buffet table gorgeous and full, while raffle tickets were sold and silent auction bidders circled and hovered hoping to be the last bid on their favorites.

### These Wonderful Folks Donated & Bought:

Larry & Mary Zilar  
Go Fly A Kite  
Into the Wind  
Marvin Nauman, High Sierra Productions  
Michelle Singer, New Creative Enterprises  
Jeff Ackroyd, Cortland Line Company  
The Breakers  
Peninsula Pharmacies (Long Beach)  
Fish Creek Kite Company  
Gary & Mary Lueth  
Governor Chris Gregoire  
Joanne M Clary  
Gail Bouchard, Independent Books  
Rakesh Bahad, International Connections  
Brooks Leffler  
Randy Dennis, Dennis Company  
Back Country Horse Rides  
John Harris, Kitty Hawk Kites  
Skipper's Equestrian Center  
Kay Buesing  
HQ Kites & Designs  
Beach Barons  
John & Marylou Orzechoski  
Marsh's Free Museum  
Eldora Merrill  
Long Beach Recycling & Transfer Site  
Dick & Linda Barnes  
Chuck Blevins  
Jerry, Glenda & Susie Graham  
Wayne Binkley  
Arnold & Aurora Authement  
Laurel & Scott Hedin, Hi-Flyers Kite Shop  
Westport Windriders  
Ft Worden Kitemakers Conference

Darrell & Mary Be  
Richard & Marti C  
Henry Jebe unek  
Bruce Lambert ner  
Miriam Schafler  
Ed Jensen  
Al Councilman  
John Barresi, Kit  
Rob, New Tech I  
Erv Crosby, )  
Four Winds Kils  
Jon Luedecker  
Barbara Wright shop  
Fincher's Aire Fc  
David & Diane B  
Butch Harviston,  
Gonzales Brother  
Joe, David, Lolly  
Revolution Kit  
Teresa Young an—  
Earl & Susie Wh  
Stephen Batema  
Susan Skinner  
Charlie Sotich  
Lindsey Johnson  
Phantom Star, man  
Tom Tinney  
Brian Johnsen  
Long Beach Kit  
Rick White on  
WKA  
Midway Printer,  
MaryAnne & Gl  
Tish Wells

Sally Kinash, Michael Hoyt, and Bary Crites got the loud auction items ready. David Gomberg, Marla Miller, Vic Eshpeter, Lee Kurtz, and Patrick Gible talked and laughed off-mike making loud auction preparations. The flying-finger, pay table ladies Sherry Hash and Celia Morris-Overton were on their mark.

By a little after ten, shoulder aching laughers, arms full of goodies had made \$11,548.00 for the Kite Museum.

Auction worker bees, the Museum Board, volunteers, and employees are indebted to every donor, every purchaser, everyone who came. We'd like to hug you all.

Thank you again, one and all.

John Thomas  
Andy Tauber  
Dianne O'Brien  
Robert Merrill  
Theresa Norelius  
Lance Ford, Mary Jansma  
Pam Buesing  
Karen Highfield  
Beth Fitzpatrick  
Ron Miller  
Cathy Tung  
Becky & David Brewster  
Sylvia Bernauer  
Ralph Stockbridge  
April & Gene Zemke  
David & Susan Gomberg  
Jeremy & Barb Perceval  
Larry & Pat Christensen  
Jeanne & Don Mock  
Raeleen DeGrandpre

Robin Haas  
John & Mary Farrell  
Mario DiLucca  
Ralph Resnik  
Bob Wendt  
Al Councilman  
Kellen Abel  
Cindy Shphar  
Vic Eshpeter  
Kelly Crites  
Dale Ray  
Cal Wen  
David Santos  
Dave Shattuck  
Barbara Job  
Jerry & Jane Kibler  
Annette Thompson  
Marianne Austin  
Rhonda Brewer  
Carolyn Kellogg



509

around  
one  
day



music  
accident



lithium  
on



the characters are introduced -

a series of short odd biographies begin movie ->

captivating

bullied

Wagner's World  
accessed at  
age 13  
after parents  
digital seizure

FRY  
begin  
with  
Jankhy  
workshop

COOP  
writes  
vision

the strands slowly come together into an astounding  
dramatic narrative

v



does flip wing  
oscillation help  
pilot stability?  
stochastic res?

AoA limit cycle } set  
AoA elasticity }

stability  
sensitive  
to initial  
conditions

natural  
modes

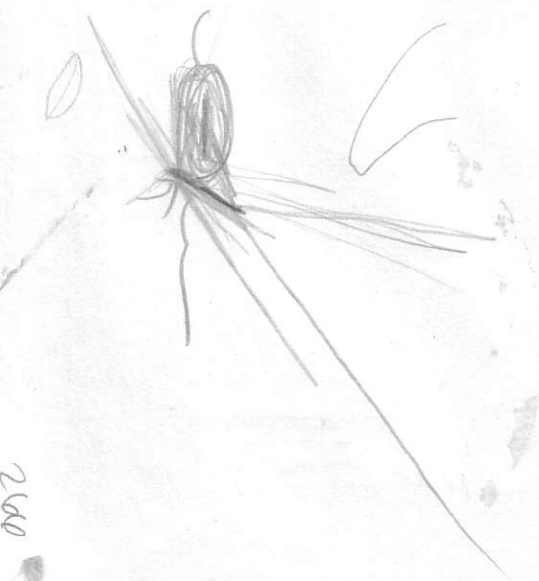
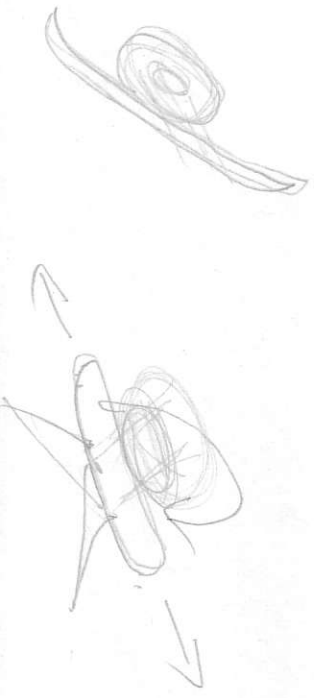
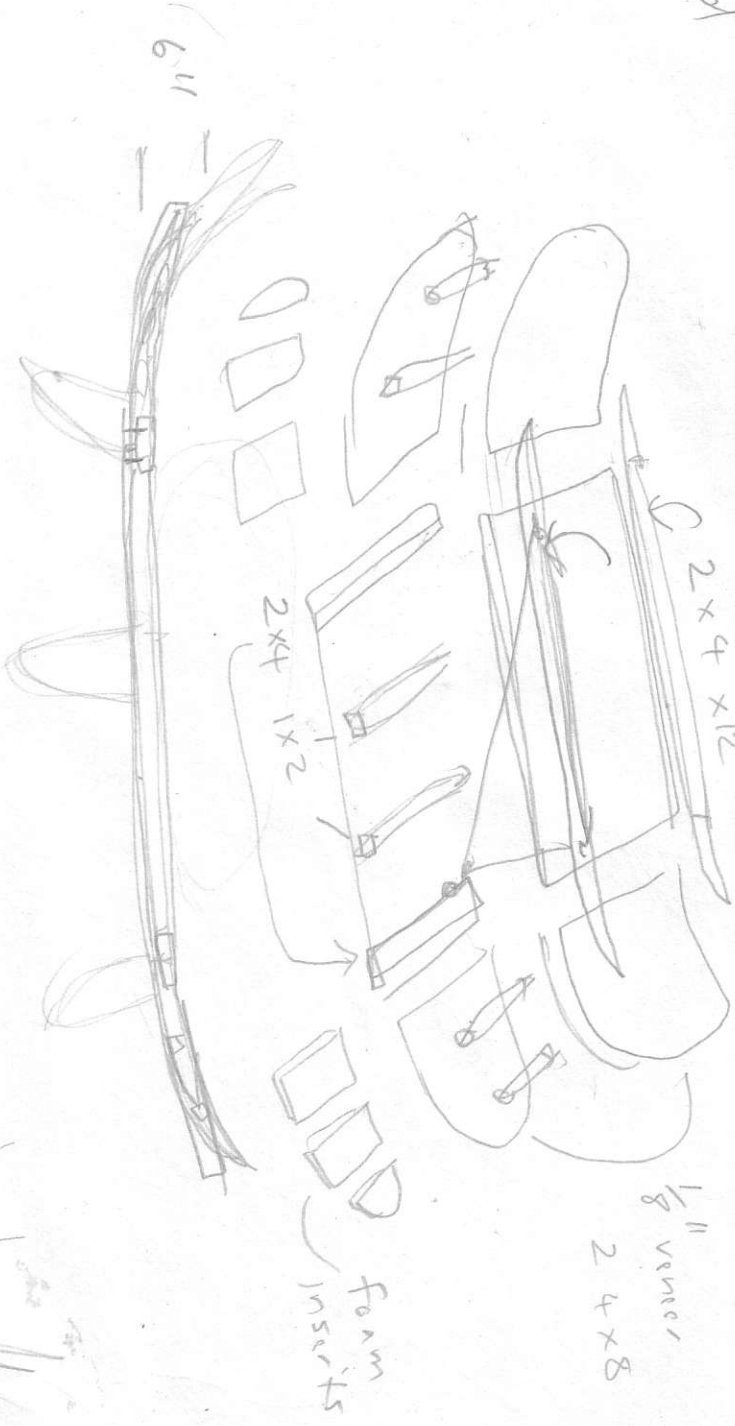
vari-  
CG:

variable  
elasticity

gen

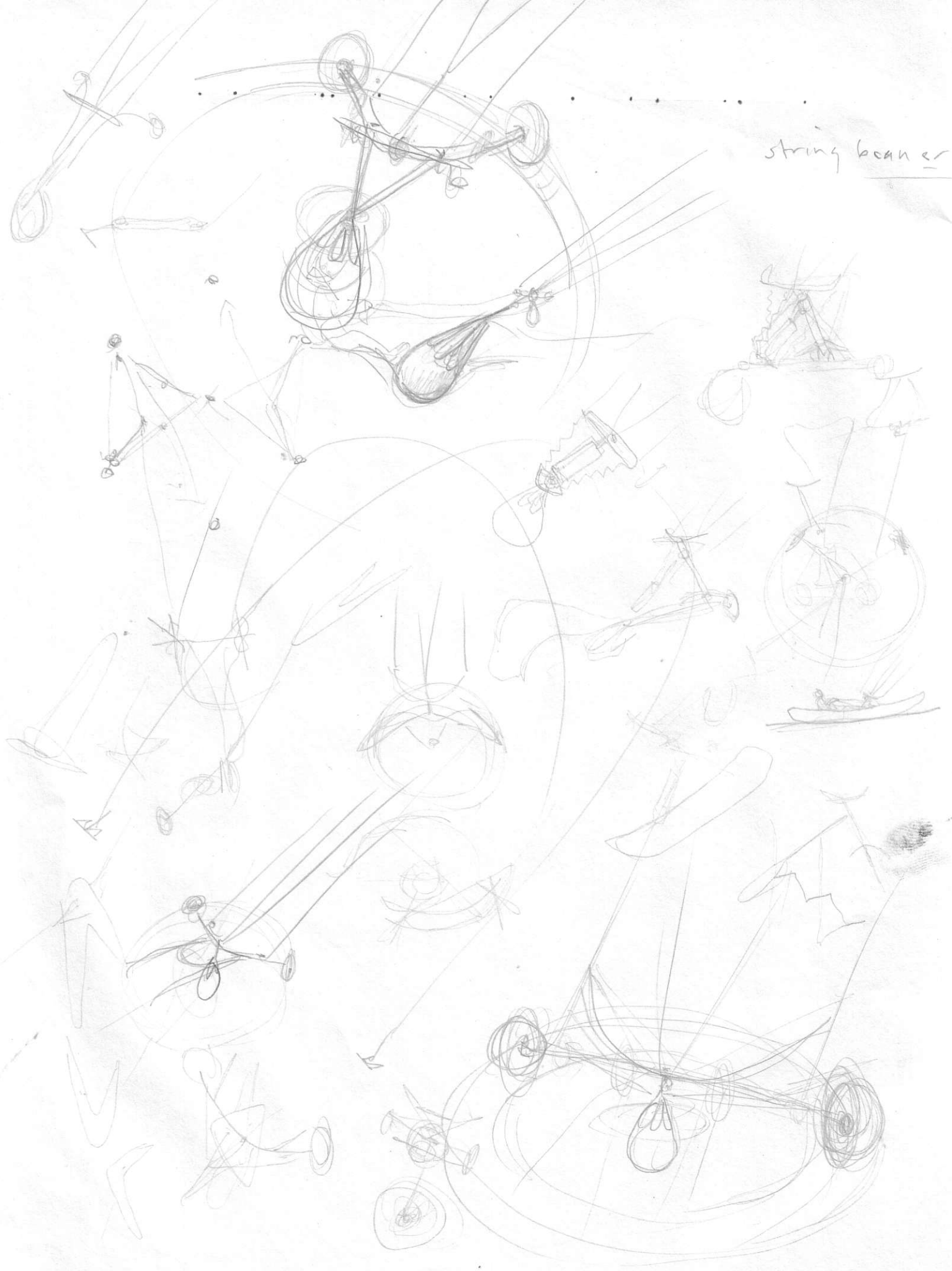


16'  
lite board

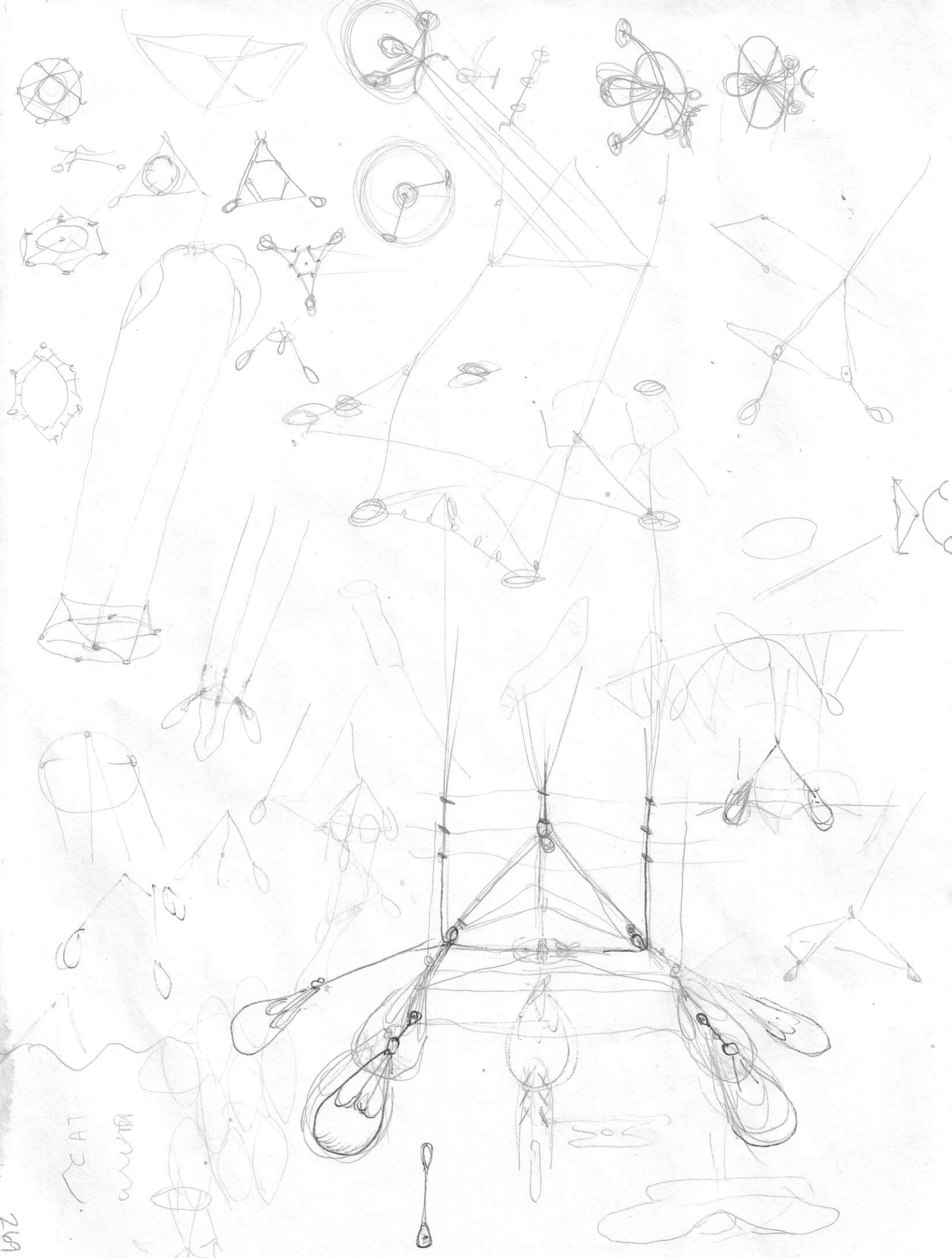




string bean er







WAT  
amw





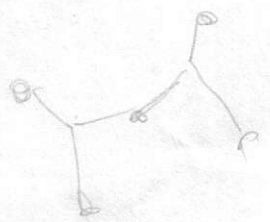
pinch-bridle-heel  
~ sled

flywheel fails as  
persistent  
debris storage  
but perfect for  
load leveling chaotic signal

counter rotating  
disc edge contact  
less dangerous



torsional  
elasticity



Further transition by our  
aerobian harp

subcritical - parallel  
critical - optimum  
supercritical - chaotic

lock potter's wheel

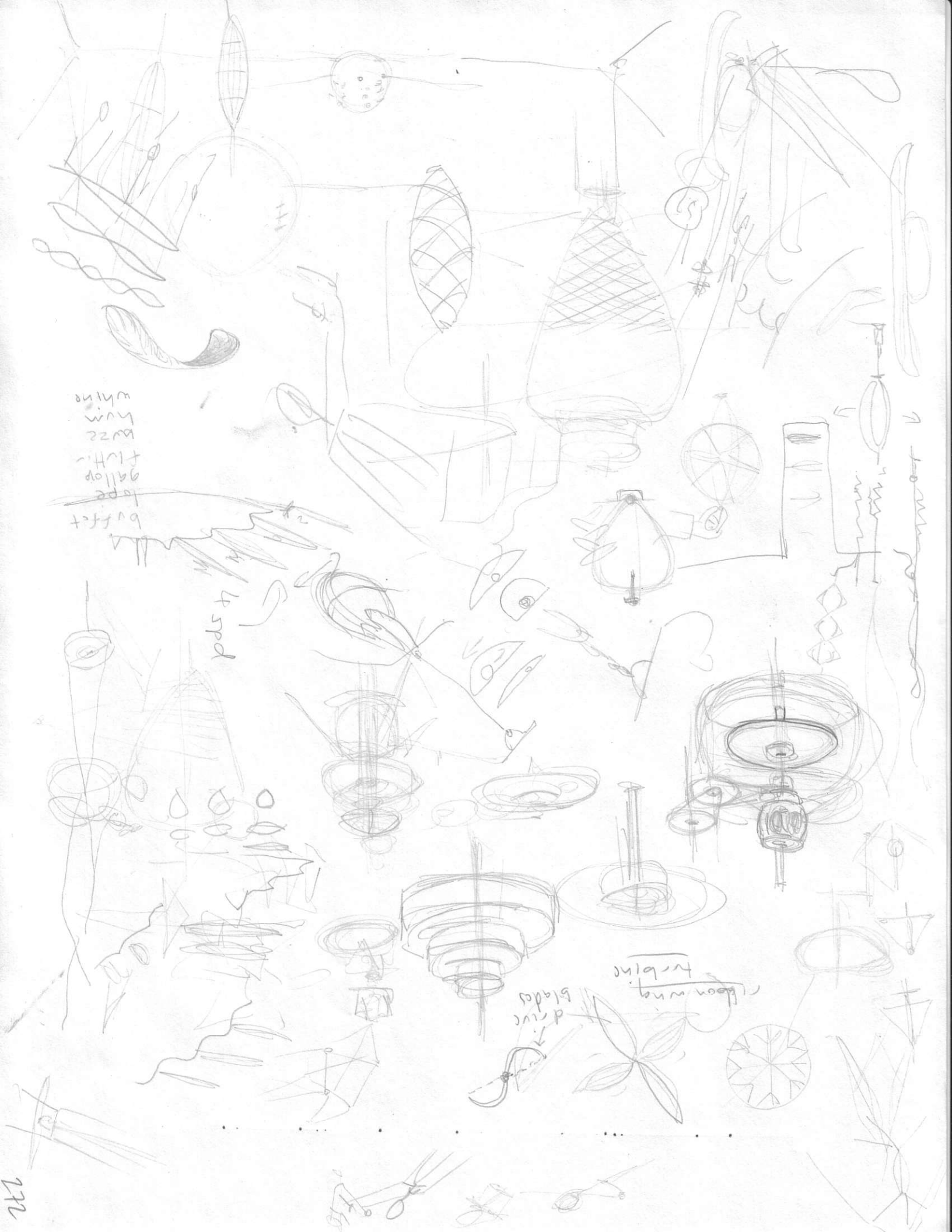
Fly wheel leveling  
load

over lap zone  
Fabric 5 lines  
only, no  
hooks

Light Air-System  
all up optimal  
Heavy Air-System

visionary play





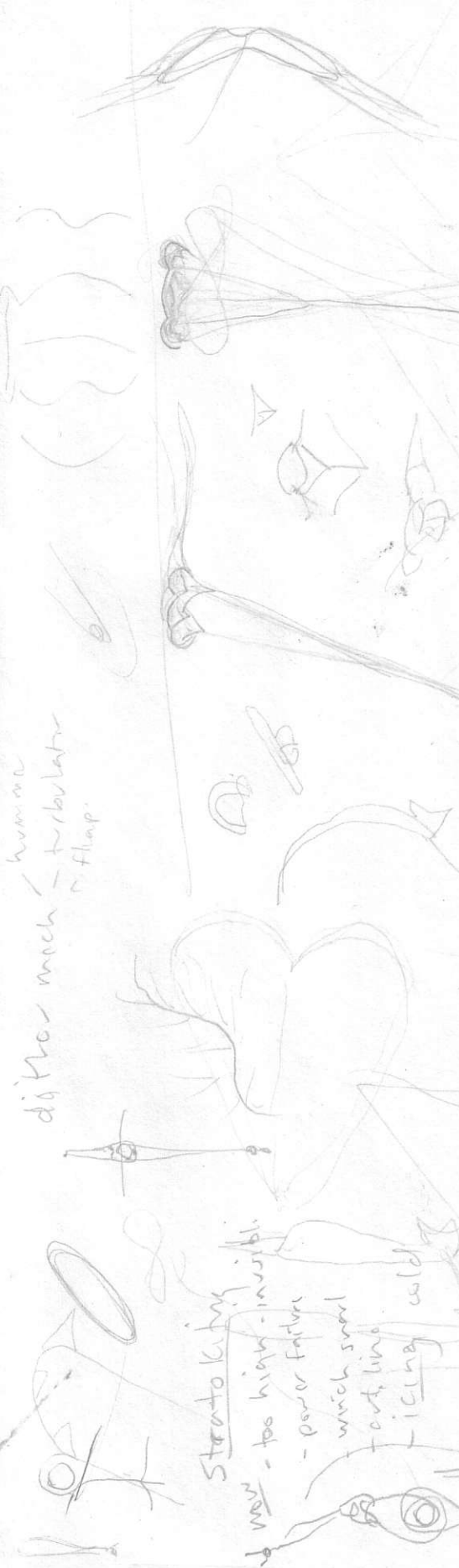
whine  
hvin  
kuzze  
fluth  
gallop  
lope  
buffet

pds + spd

drive blades  
ribbon wing turbine

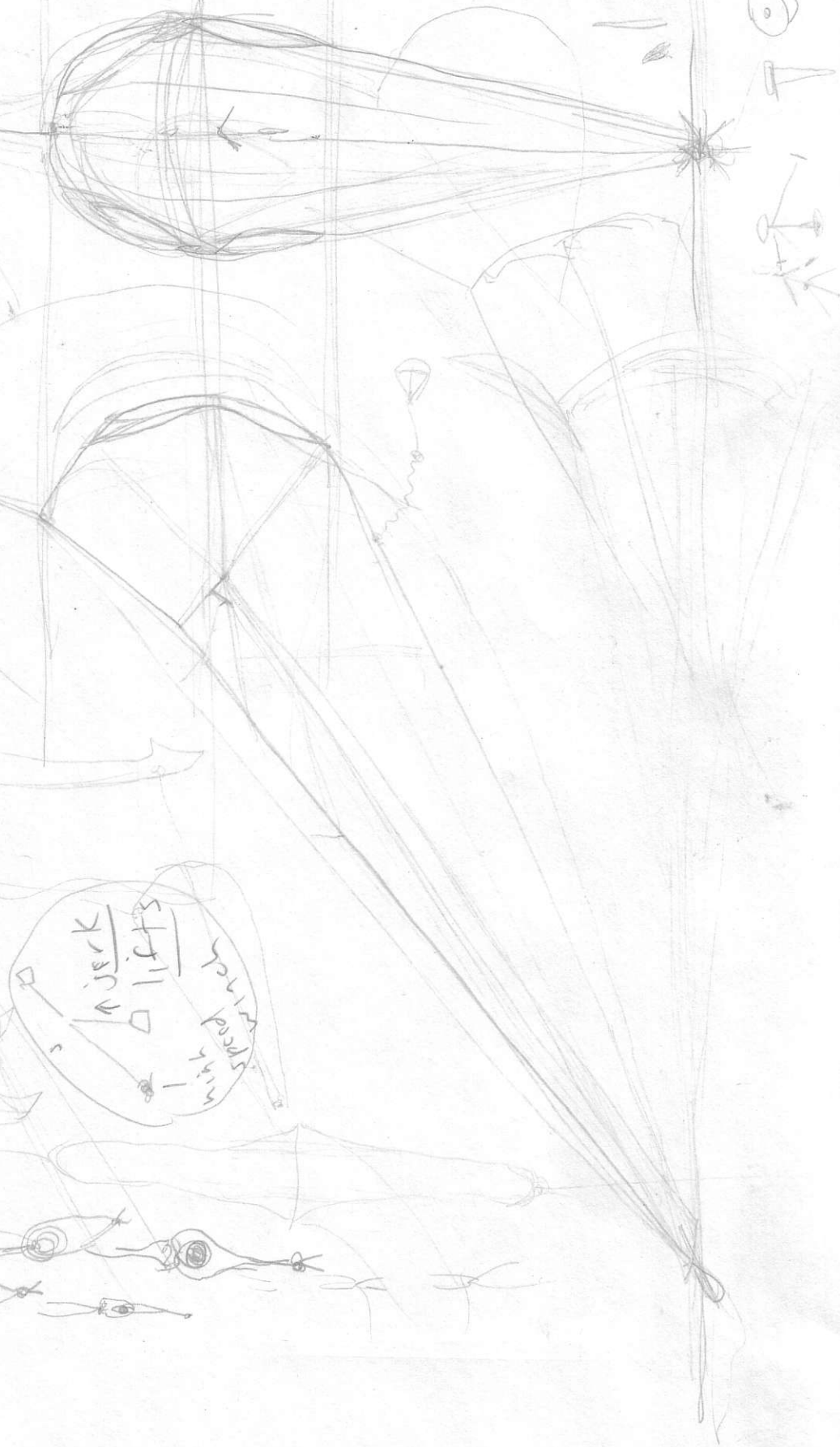


differs much / human  
- tribulation  
- flap



Aerobioelectric

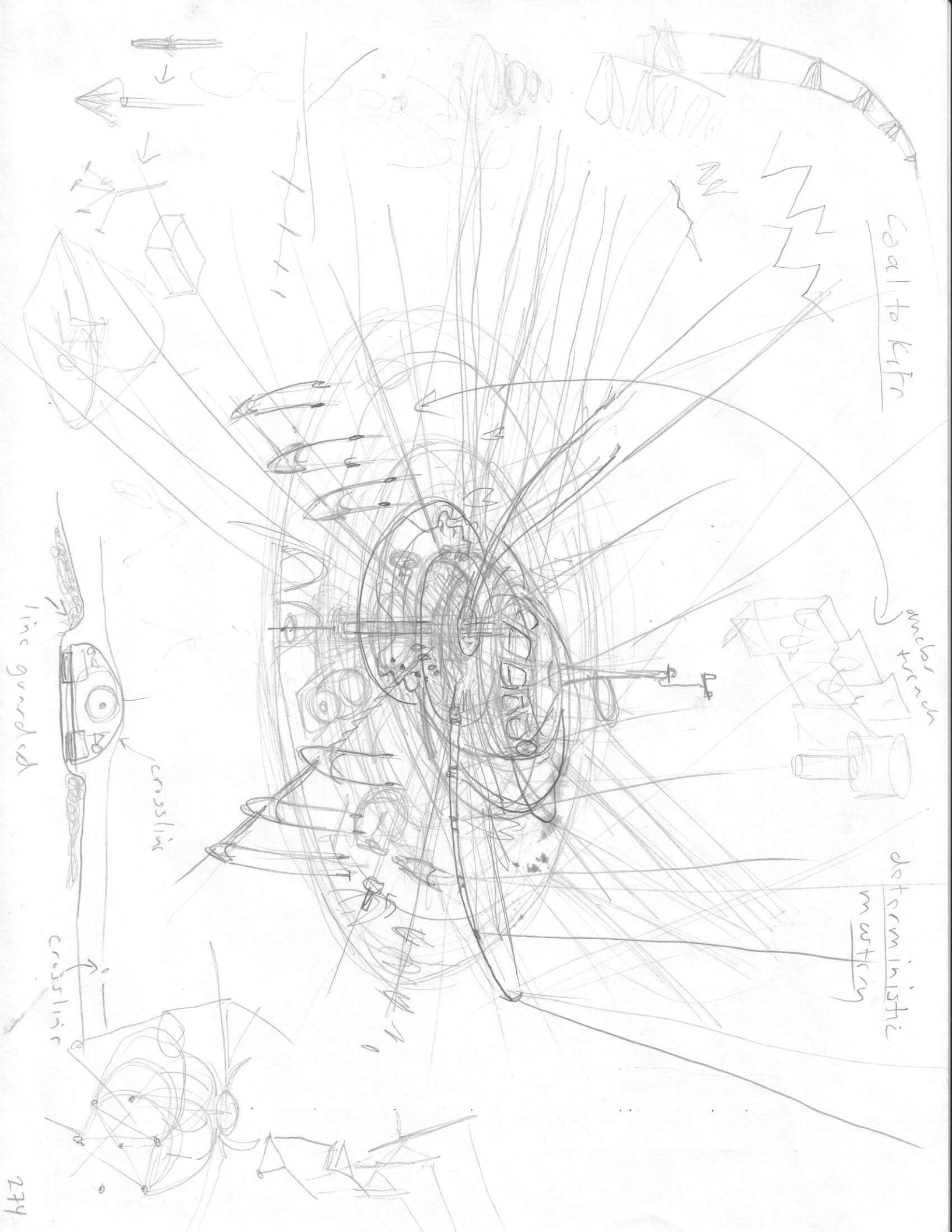
can  
kites learn  
from  
the evolution  
of plants  
Fails  
fathers  
anchors



Stato kiting  
- too high - invisible  
- power failures  
- which speed  
- cut line  
- icing cold



↓ now



Coal to Kfr

amper  
trush

deterministic  
marketing

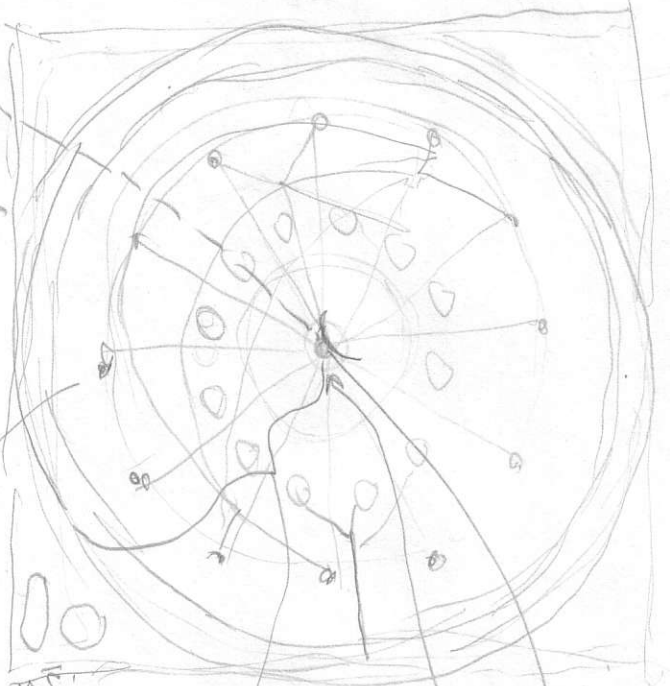
line guarded

crossline

crossline

Lite zone

a fully characterized hazard is manageable



Ambiguous

mother  
treat  
(running rigging)

fox brass  
Exhale ring

mass  
radius  
of  
elements

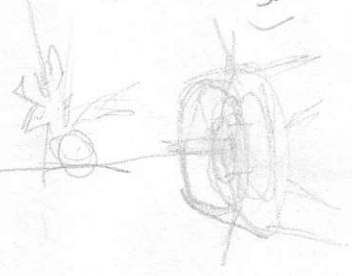
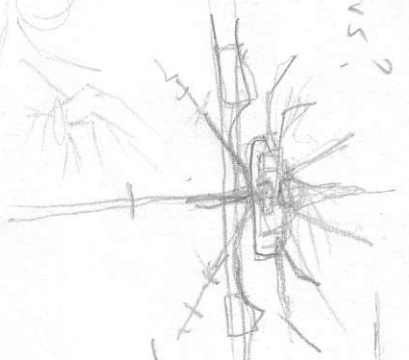
Lite zone

anchors  
2x max load

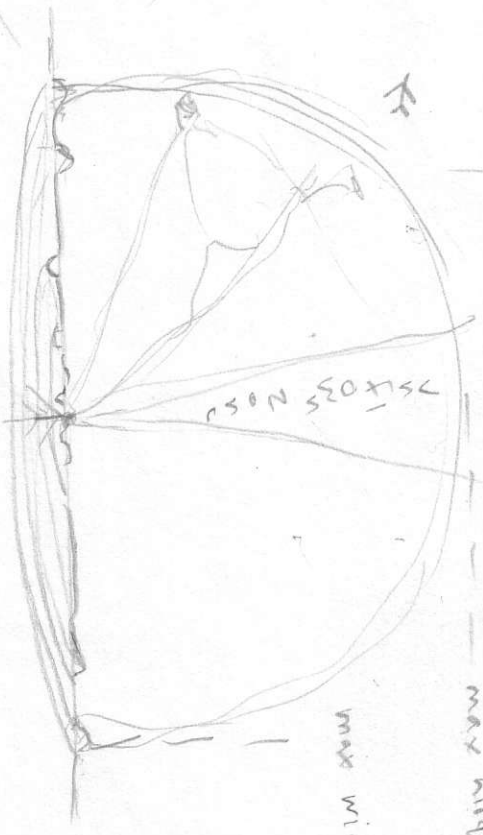
R/G signal lights  
for hours?



ground handlers - rough necks  
steep markers



anchor cars



max width

max height

25x35 nose

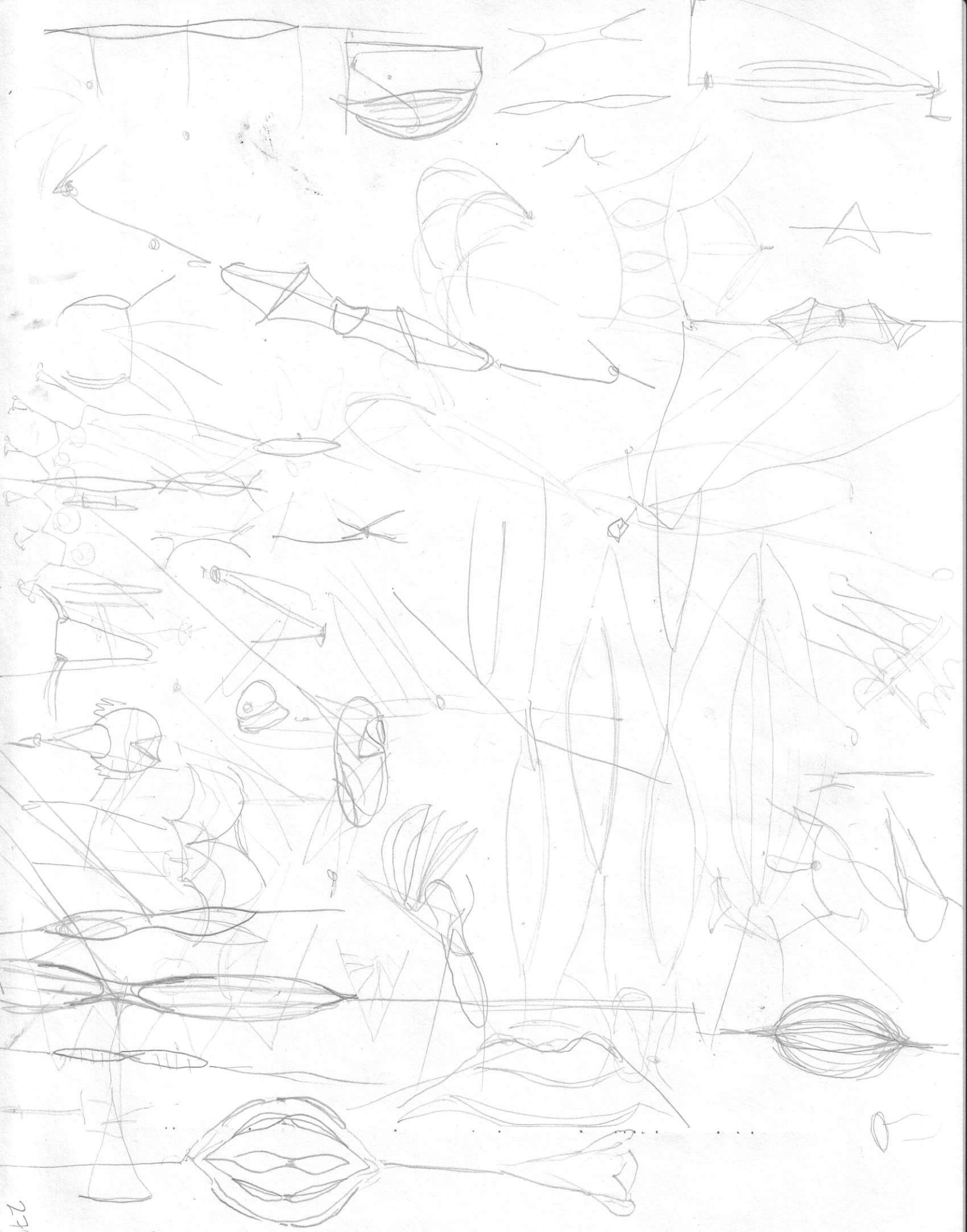
line shelters















line sag - catenary  
fairlead

Kite problem is static

main part of kite

ambiguities  
 $\approx$  impedances

the kite wants  
to stretch

stick to slip

excitation

Institutional corruption

masterful neoliberal poseurs

Paris Review + Orion Magazine

Mathiasen

Security

Global Destruction System -

-the modern network of sustainability

B.O.?

fine bibliohist, political child of r

myth



study facial structure

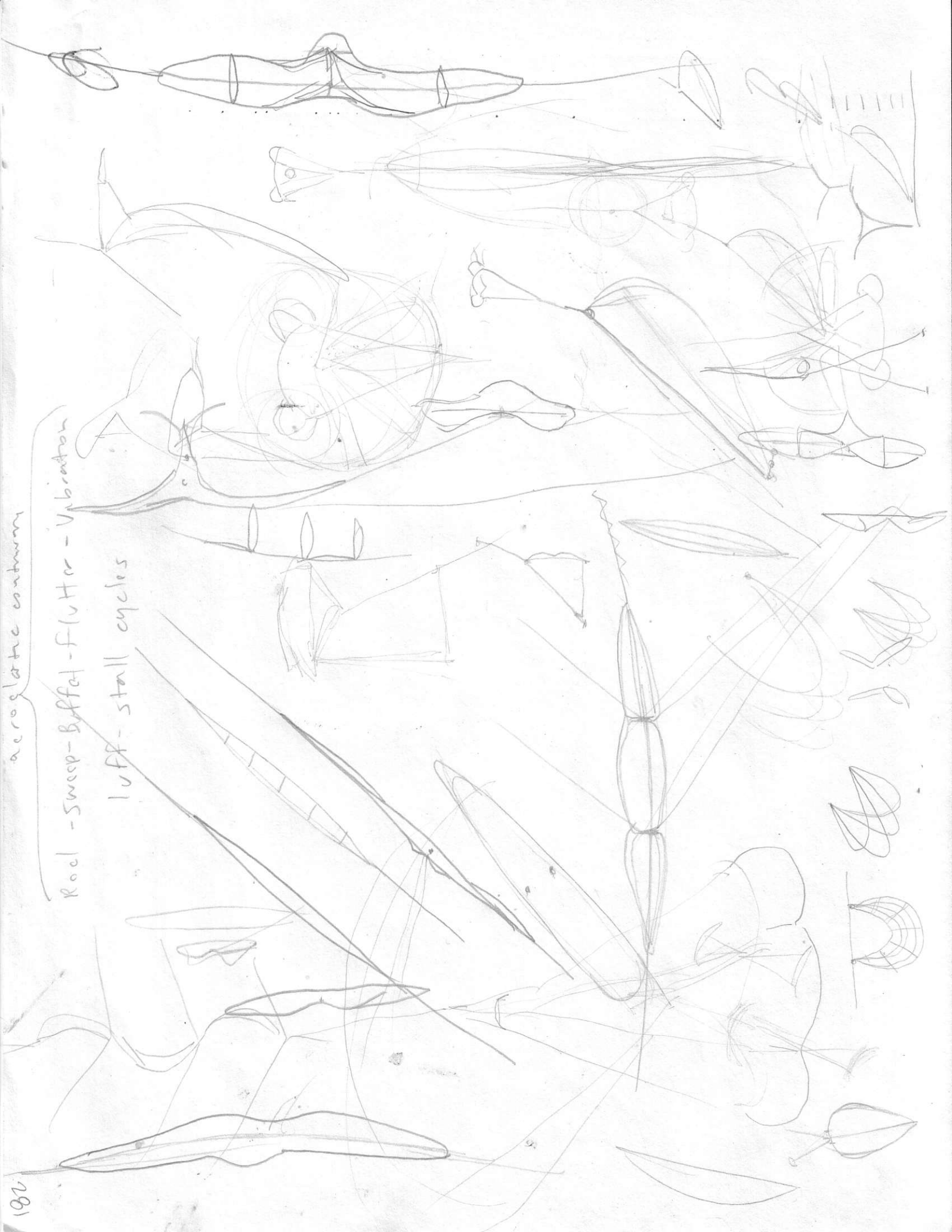
eye

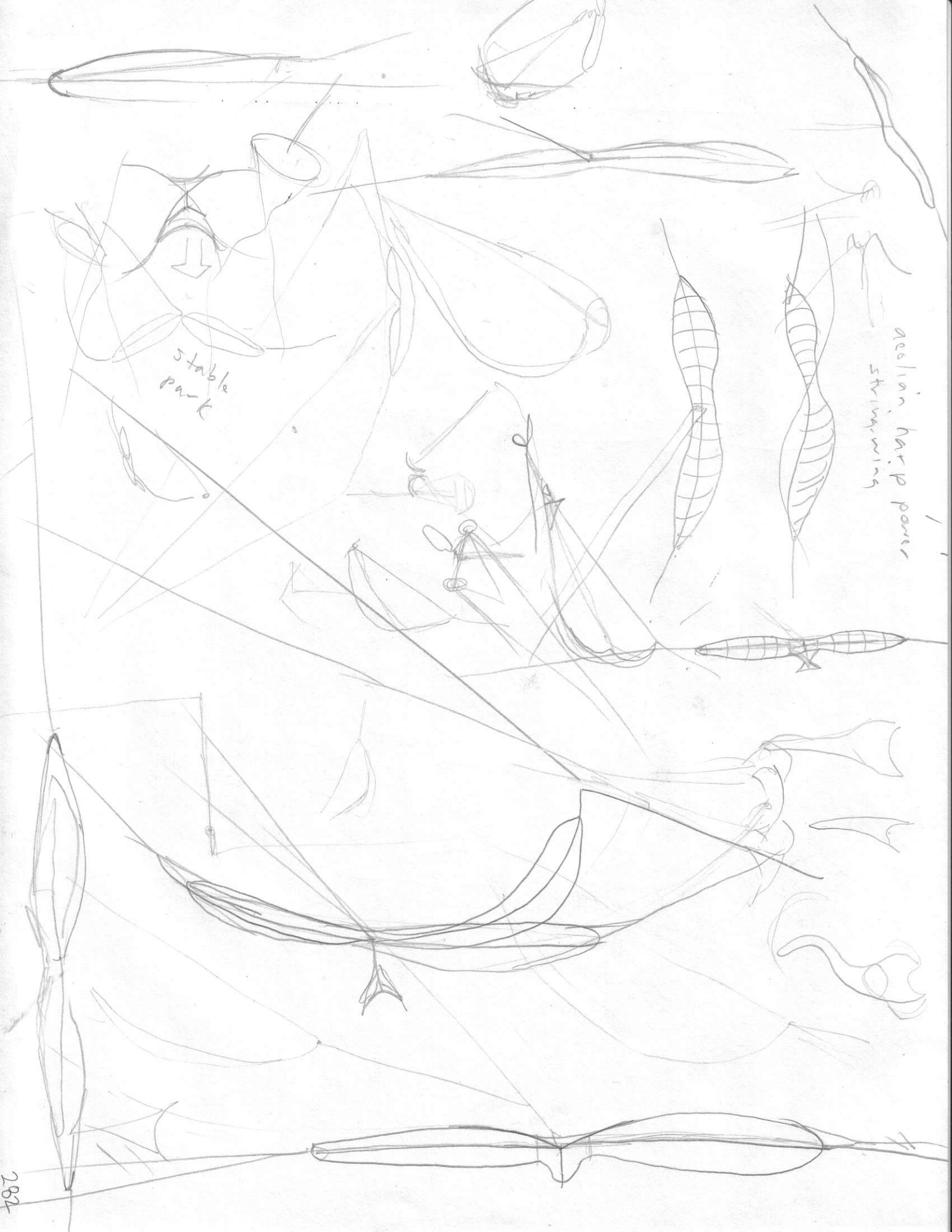
CP 51.44

aeroglastic continuum

Roll - Sweep - Buffet - Flutter - Vibration

buff-stall cycles





stable  
park

action hair power  
string wing



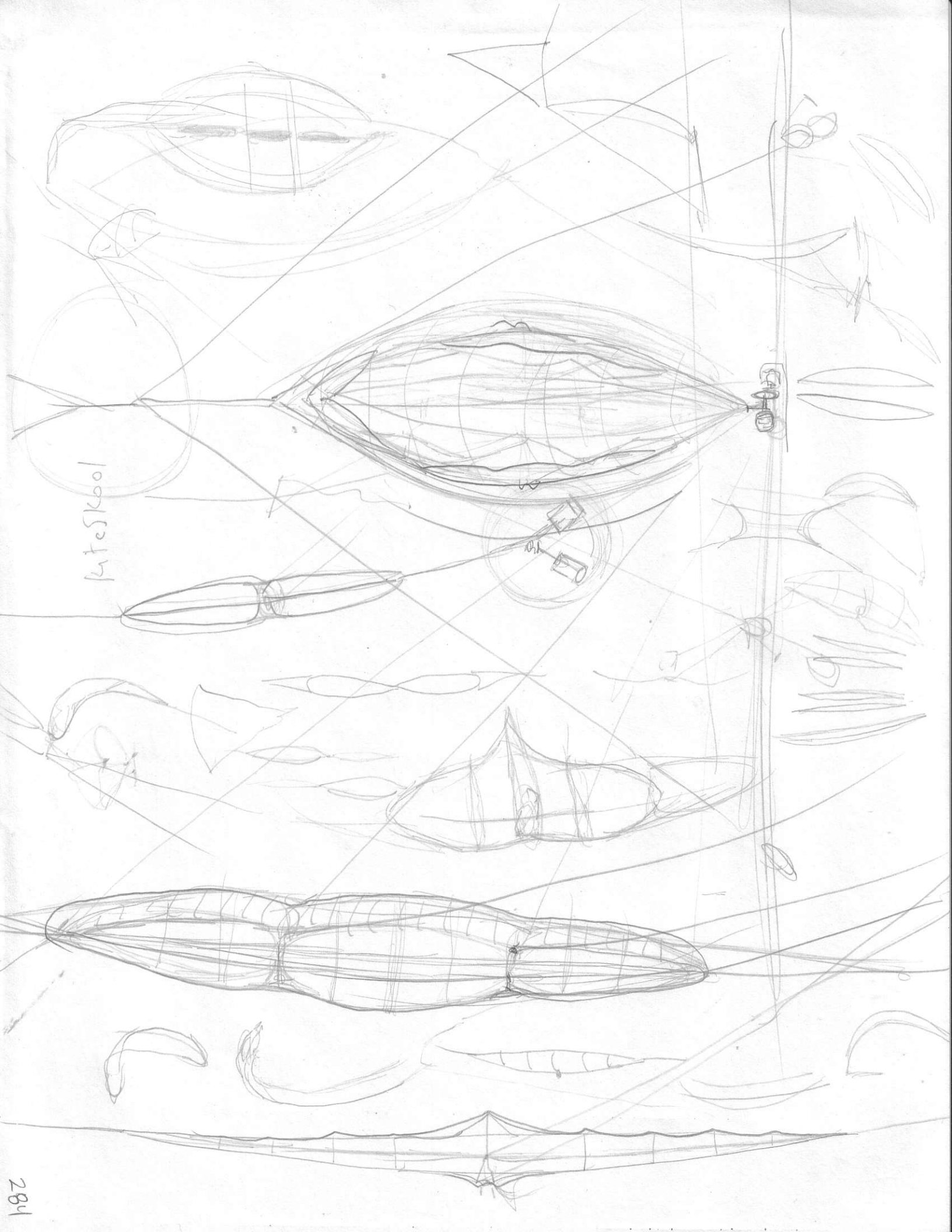


autonomous wind toys

Loop Gallop Putter

Tension

B122



AntesKool

1911

entrained oscillators

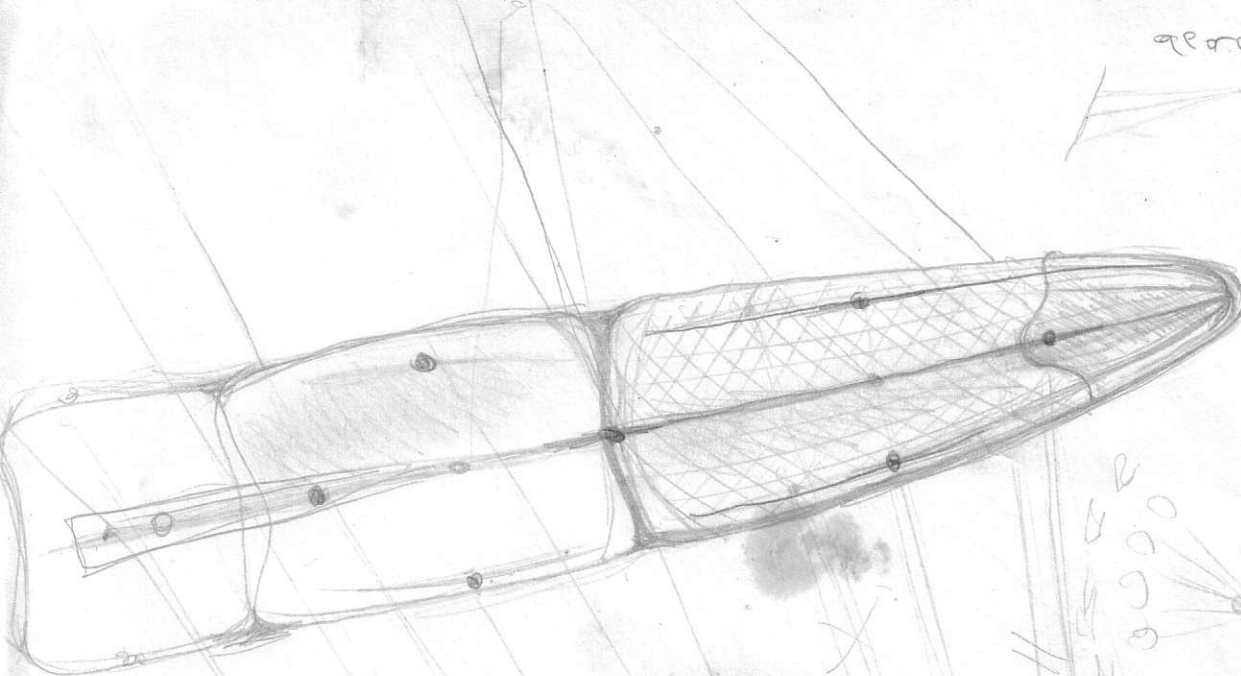
laser

elab. instr.

LVD

instr.





aeroelastic energy

optimal  
external  
modification

20000  
20000  
20000



set helicity  
according to  
wind speed  
+ lift/drogue  
tension

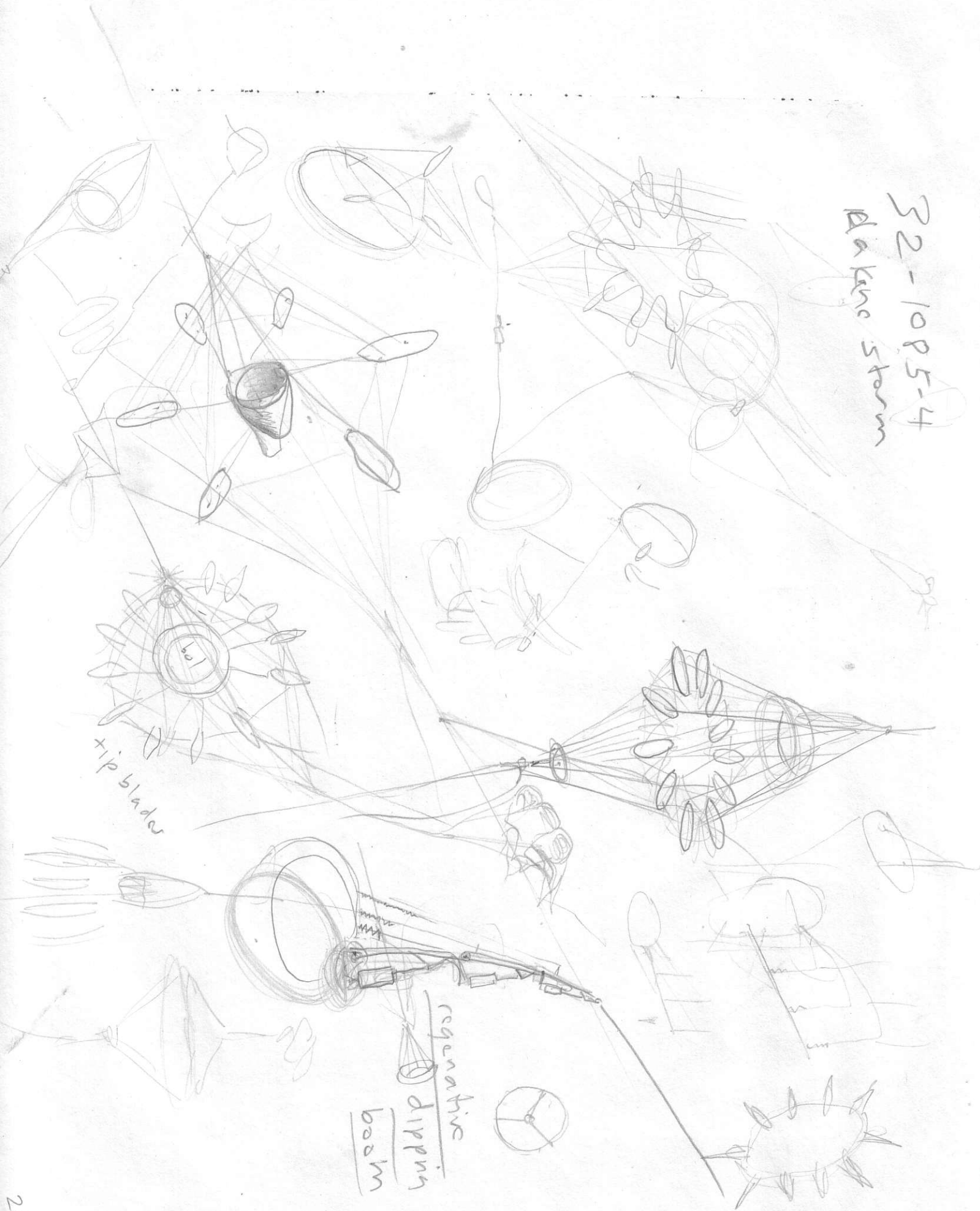








32-1085-4  
Ala Kene storm



+tip blades

regenerative  
dipping  
basin

