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what's happening now?



# Animal Estates (2008-present)



## **Animal Estates 2008**

**1.0: New York, New York {Whitney Museum of American Art}**

**2.0: Austin, Texas {Arthouse}**

**3.0: Cambridge, Massachusetts {MIT}**

**4.0: San Francisco, California {SFMOMA}**

**5.0: Portland, Oregon {Douglas F. Cooley Memorial Art Gallery}**

**6.0: Utrecht, The Netherlands {Casco}**



**Animal Estates 1.0: New York, NY / 2008 Whitney Biennial**



**Upper East Side / September 10th, 1609 / Mannahatta Project**

# 400 YEARS AGO AT MADISON & 75TH

## ANIMAL ESTATES 1.0 NEW YORK CITY

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In 1609 the Upper East Side was clothed in woods, mainly oak-tulip tree forest in the valley bottoms and oak-hickory forest on the hilltops. American chestnut (*Castanea dentata*) formed more than 50% of the tree basal area. The forest understory was relatively open, cleared by periodic, low intensity fires lit by the Lenape, an Algonquin cultural group, that lived, hunted and fished on Manhattan Island for hundreds of years prior to Hudson's arrival. The block where the Whitney Museum would one day be built spanned a low hill about 60 feet above sea level, that sloped down slightly from the corner of 75th and Madison Avenue, to a substantial stream that flowed out of Central Park along the line of the future 74th Street; another stream flowed southwest approximately along Park Avenue. Wildlife species which might have made this block their home 400 years ago include white-tailed deer (*Odocoileus virginianus*), black bear

(*Ursus americanus*), hairy woodpecker (*Picoides villosus*), long-eared owl (*Asio otus*), timber rattlesnake (*Crotalus horridus*), redback salamander (*Plethodon ciereus*), and perhaps brook trout (*Salvelinus fontinalis*) and beaver (*Castor canadensis*).

The Mannahatta Project is an effort to reconstruct the ecology and animal habitats of Manhattan Island four-hundred years ago, as they might have appeared on September 12, 1609, when Henry Hudson, an English sailor in Dutch employ, set in motion the chain of events that led to New York City. Using a combination of historical maps, modern ecology, and computational geography, landscape ecologists at the Wildlife Conservation Society (Bronx Zoo) can visualize the pre-European landscape using scientifically reconstructed distributions of species and ecosystems.

IMAGE Markley Boyer TEXT Eric Sanderson

For more information please visit [www.wcs.org/mannahatta](http://www.wcs.org/mannahatta).  
Mannahatta Project is a local resource of information and inspiration for  
Fritz Haeg's Whitney Biennial project, Animal Estates 1.0: New York, NY.

[www.animalestates.org](http://www.animalestates.org)



**Upper East Side / September 10th, 1609 / Mannahatta Project**

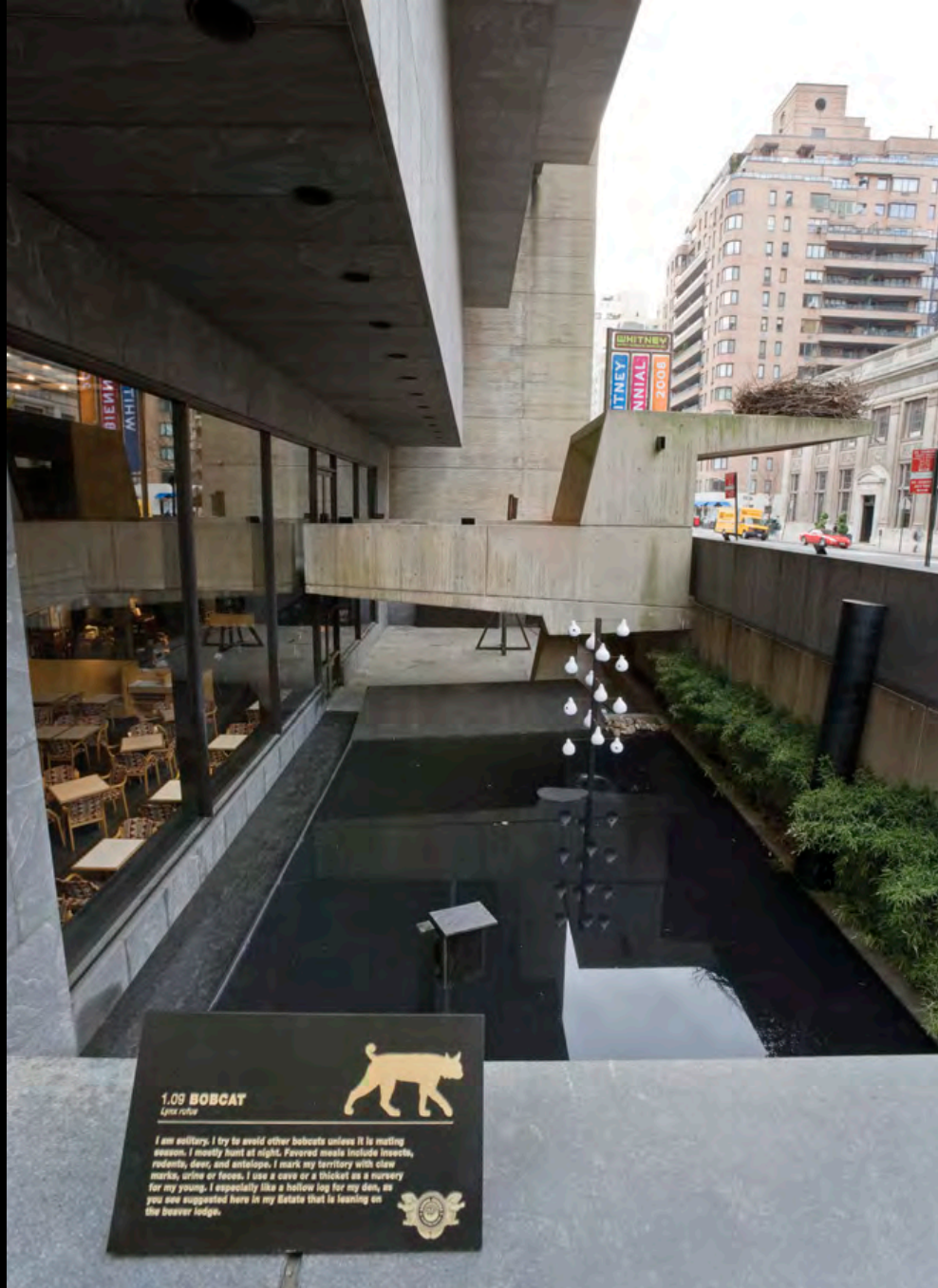


**Animal Estates 1.0: New York, NY / Whitney Biennial / 2008**



**Animal Estates 1.0: New York, NY / Whitney Biennial / 2008**





**Animal Estates 1.0: New York, NY / Whitney Biennial / 2008**



**Animal Estates 1.0: New York, NY / eagle's nest**



## **ANIMAL ESTATE MODEL HOMES**

1.0 NEW YORK CITY

Before Marcel Breuer's Whitney Museum of American Art, we had a beaver pond. Over 400 years ago we lived around a marsh headwater stream in this very location. We are the animal clients for this premiere edition of Animal Estates: beaver, bat, bee, bird, bobcat, duck, eagle, opossum, owl, salamander, squirrel, and turtle. We have returned for a three month residency in our new development of model homes. As a property owning human, you too can construct a development of Animal Estates. Other editions are coming soon to Austin, Baltimore, Cambridge, Portland, San Francisco, and Utrecht in 2008.



**Animal Estates 1.0: New York, NY / Whitney Biennial / 2008**



**Animal Estates 1.0: New York, NY / beaver pond**

# ANIMAL ESTATES 1.0 NEW YORK CITY

## Events for the 2008 Whitney Biennial

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### Sundown Schoolhouse: Guided Estate Tours

Starts at 1pm in the sculpture court

Whitney Museum of American Art, 945 Madison at East 75th

- Thur, Mar 06** 1.07 **OPOSSUM**  
with Deborah Simon
- Wed, Mar 12** 1.05 **BIG BROWN BAT**  
with Erica Browne
- Wed, Mar 19** 1.10 **EASTERN TIGER SALAMANDER**  
with Jeremy Feinberg
- Wed, Mar 26** 1.06 **MASON BEE**  
with Elizabeth Johnson
- Wed, Apr 02** 1.08 **NORTHERN FLYING SQUIRREL**  
with Emily Lacy
- Wed, Apr 09** 1.02 **BARN OWL**  
with Margaret Mittelbach
- Sun, Apr 20** 1.11 **EASTERN MUD TURTLE**  
with Michael Crewdson
- Sun, Apr 27** 1.03 **WOOD DUCK**  
with Damon Rich
- Sun, May 04** 1.12 **BEAVER**  
with Eric Sanderson
- Sun, May 11** 1.09 **BOBCAT**  
with K8 Hardy
- Sun, May 18** 1.04 **PURPLE MARTIN**  
with Jennifer Monson
- Sun, May 25** 1.01 **BALD EAGLE**  
with Emily Scott

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**Sat, May 03** 10–12pm & 1–3pm sculpture court  
**ANIMAL MUSICAL** workshop  
with Matthew van Brink, ages 8–12

A project by Fritz Haeg for the 2008 Whitney Biennial [www.animalestates.org](http://www.animalestates.org)  
PHOTOGRAPHY Nicolas Wagner MODEL Tobias Heyduk DESIGN PS New York

ANIMAL ESTATES 1.0 NEW YORK CITY Events for the 2008 Whitney Biennial

**TO**

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***weekly Guided Estate Tour - opossum***



**Animal Estates 1.0: New York / *Guided Estate Tours* - flying squirrel**



***Animal Estates 1.0: New York / Guided Estate Tours  
K8 Hardy as the bobcat***



# ANIMAL ESTATES 1.0 NEW YORK CITY

## Events for the 2008 Whitney Biennial

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### Museum Movements: Animal Scores

Starts at noon in the 4th floor galleries

Whitney Museum of American Art, 945 Madison at East 75th

- Thur, Mar 06 FLORA WIEGMANN
  - Wed, Mar 12 JMY LEARY
  - Wed, Mar 19 PAIGE GRATLAND
  - Wed, Mar 26 DANIEL LINEHAN
  - Wed, Apr 02 LEVI GONZALEZ
  - Wed, Apr 09 MICHAEL HELLAND
  - Sun, Apr 20 KAYVON POURAZAR
  - Sun, Apr 27 FELICIA BALLOS
  - Sun, May 04 ANNA SPERBER
  - Sun, May 11 LAYLA CHILDS
  - Sun, May 18 JENNIFER MONSON
  - Sun, May 25 ALEX ESCALANTE
- 

- Sat, Mar 22 **2-4pm Park Avenue Armory**  
643 Park Avenue between East 66th & 67th  
**ANIMAL DRILLS** collective instruction and  
performance of all 12 animal movement scores  
by the dancers who created them

ANIMAL ESTATES 1.0 NEW YORK CITY Events for the 2008 Whitney Biennial

**TO**

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# 1.07 OPPOSUM

*Didelphus virginiana*



Museum Movements: Animal Score by DANIEL LINEHAN

**You Move slowly, quietly, and nocturnally with your hands in your pockets.**

You are North America's only marsupial, so you have a pouch!

**You Spot an onlooker. Danger! You "Play dead": You unconsciously Go catatonic and Drop onto your side, lips Drawn back, all 50 of your teeth bared, eyes Staring fixedly into space.**

Also: saliva foams around your mouth, and foul-smelling fluid is secreted from your anal glands.

**You slowly Regain consciousness.**

**You slowly Climb a tree with your five limbs:**

**Tail — Foot — Foot — Hand — Hand.**

**You Eat a cockroach with your 50 teeth. Yum!**

Your feet have opposable thumbs which makes climbing very easy! And you like to eat what humans think of as pest! You can even eat rats with rabies but you will remain disease-free because of your strong immune system! You also like to eat dead animals which helps to keep the roads clean! That's right: You are "Nature's Little Sanitation Engineer"!

**You slowly and nomadically Move to a new environment with your hands in your pockets.**

**Repeat: You slowly Climb another tree.**

**You Eat a piece of fruit with your 50 teeth. Yum!**

You are an omnivore too!

**You quickly Get old. You Die.**

The aging process happens very rapidly for you and you die after having lived for only 2-4 years.

To be performed in the 2nd floor galleries of the Whitney Museum

A project by Fritz Haag for the 2008 Whitney Biennial [www.animalestates.org](http://www.animalestates.org)  
PHOTOGRAPHY Nicolas Wagner MODEL Tobias Heyduk DESIGN PS New York



NEW YORK ANIMAL ESTATE CLIENT: 1.07 OPPOSUM *Didelphus virginiana*

TO \_\_\_\_\_

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**Animal Scores - 1.07: Opossum / Animal Scores postcard**



**Animal Score 1.11: Eastern Mud Turtle / Whitney Museum bookstore**



**Animal Estates 6.0: Utrecht, The Netherlands / Casco - 2008**



**Animal client 6.1: RED ADMIRAL / Anko de Graaff / estate: feeding station**



**client 6.2: EUROPEAN KINGFISHER / Jelle Jellesma / estate: nest cavity**



**Animal client 6.4: GRASS SNAKE / expert: Marja Kik / estate: compost pile**

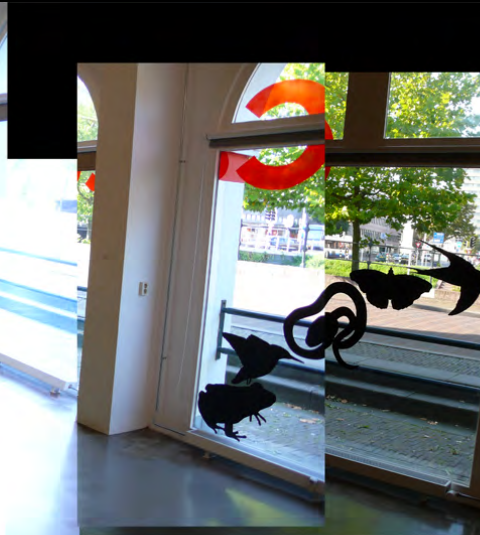


**Animal client 6.5: GREEN FROG / Annamarieke Spitzen / estate: pond**





**Animal client 6.3: Common Swift / Tienieke de Groot**



**Utrecht Animal Estates Headquarters**



**Utrecht Animal Estates Headquarters**



**Animal Estates 5.0: Portland, Oregon / Cooley Gallery - 2008**



**Animal Estates 5.0: Portland, Oregon / the snag**



**Animal Estates 5.0: Portland, Oregon / Cooley Gallery - 2008**



**Animal Estates 5.0: Portland, Oregon / Cooley Gallery - 2008**

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# BUILD A BETTER SNAG\*!

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## A CHALLENGE TO BUILD YOUR OWN PORTLAND ANIMAL ESTATE

A multiple unit vertical dwelling tower for native species.  
The prototype by Fritz Haeg is on view August 26–October 5:  
at the Douglas F. Cooley Memorial Art Gallery, Reed College, Portland, Oregon  
Submit documentation of your Estate to [snyders@reed.edu](mailto:snyders@reed.edu) for display in the gallery.  
Visit the Portland page and animal links at [animalestates.org](http://animalestates.org) for more details.

\* A SNAG IS A DEAD TREE!

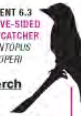


# ANIMAL ESTATES 5.0 PORTLAND

## A SNAG TOWER FOR SEVEN NATIVE SPECIES

### ANIMAL CLIENTS\*

CLIENT 6.3  
OLIVE-SIDED  
FLYCATCHER  
CONTOPUS  
COVAREW  
perch



CLIENT 6.1  
VAUX'S SWIFT  
CHAETURA VAUXI  
chimney



\*  
or customize your snag for  
other animal clients in your area.  
Build your own version  
of this snag and submit  
documentation to  
snymers@reed.edu  
for display in the gallery.  
Visit the Portland page  
and animal links at  
animalestates.org  
for more of the details.



CLIENT 6.4  
SILVER-HAIRED BAT  
LASIONYCTERIS NOCTIVAGANS  
bark crevice



CLIENT 6.2  
WHITE-BREADED  
NUTHATCH  
SITTA CAROLINENSIS  
nestbox



CLIENT 6.5  
NORTHWESTERN  
GARTER SNAKE  
THAMNOPHIS SIRTALIS  
TETRAETAENIA  
hibernaculum

CLIENT 6.6  
EDWARD'S HUMBLERBEE  
BOMBUS EDWARDSI  
nesting box



CLIENT 6.7  
SNAIL-EATING  
GROUND BEETLE  
SCAPHINOTUS  
ANGULATUS  
board cover



# 5.05 NORTHWESTERN GARTER SNAKE

*Thamnophis sirtalis tetrataenia*



A pile of salvaged concrete slabs on the south side of the Portland Animal Estate provide a warm place for the northwestern garter snake to sunbathe. Underneath there is a hibernaculum, a chamber for the long winter sleep.

PORTLAND ANIMAL CLIENT 5.05 NORTHWESTERN GARTER SNAKE *Thamnophis sirtalis tetrataenia*

A project by Fritz Haog for Douglas F. Cooley Memorial Art Gallery, Reed College  
www.animalestates.org PHOTOGRAPHY Shawn Records DESIGN PS New York



TO

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**Animal Estates 4.0: San Francisco, CA / SFMOMA - 2008**



**Animal Estates 4.0: San Francisco, CA / SFMOMA**



**Animal Estates 4.0: San Francisco, CA / SFMOMA - 2008**



**Animal Estates 4.0: San Francisco / customized Salamander Estate**

## 4.01 CALIFORNIA SLENDER SALAMANDER

*Batrachoseps attenuatus*



SAN FRANCISCO ANIMAL CLIENT 4.01 CALIFORNIA SLENDER SALAMANDER *Batrachoseps attenuatus*

One way salamanders stay moist is by residing in cool damp places like the undersides of logs or under leaf litter. The coverboards that we use to monitor the salamanders are pieces of wood left on the ground for salamanders to hide under. These "Salamander Estates" give us the ability to determine what kind and how many salamanders are out here. We also find out if the abundance and variety of salamanders changes throughout the restoration work at Mountain Lake in The Presidio. In general, when finished with observations, the the log or board-lifters should very gently lower the "roof of the Estate" back down to the ground to avoid injuring the inhabitants.

DAMIEN RAFFA, EDUCATION/VOLUNTEER PROGRAM MANAGER, THE PRESIDIO TRUST

TO

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A project by Fritz Haeg for SFMGMA [www.animalestates.org](http://www.animalestates.org)  
PHOTOGRAPHY Damien Raffa DESIGN PS New York



# Animal Estates 4.01: California Slender Salamander



Animal Estates Field Guides





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# Edible Estates (2005-present)

# Edible Estates

a gardenlab project





**#1 - Salina, Kansas - 2005**

{Salina Art Center}

**#2 - Lakewood California - 2006**

{Machine Project}

**#3 - Maplewood, New Jersey - 2007**

{Garden Supply}

**#4 - London, England - 2007**

{Tate Modern}

**#5 - Austin, Texas - 2008**

{Arthouse}

**#6 - Baltimore, Maryland - 2008**

{Contemporary Museum Baltimore}

**#7 - Descanso Public Demonstration Garden - 2008**

{Descanso Gardens}

**#8 - Lenape Edible Estate: Manhattan - 2009**

{New York Restoration Project & Friends of the High Line}



**Cox residence - Salina, Kansas**



**Edible Estates #1: Salina, Kansas - 2005**

House

Corn

Grapes

Grapes

Grapes

chilis

Peach Tree

Herbs

MOUND

Tomatoes

Plum Tree

Thyme

table

chairs

Apple Tree

Peach Tree

Peach Tree

Apple Tree

Horse radish

Swiss chard

Okra

Okra

Okra

Slope

strawberries

strawberries

strawberries

Sidewalk

34'-0"

25'-0"

Steps





# Edible Estates

a perfect project  
in your back yard  
LOS ANGELES

## SOO LOVEABLE

YOU CAN REMOVE BUGS FROM YOUR GARDEN  
WITH UP TO 100% EFFECTIVENESS. IT'S A NATURAL  
AND SAFE WAY TO KEEP YOUR GARDEN FREE OF  
Pests, and it's safe for you, your family, and  
the environment.

### COMPOSTING

It's a great way to recycle your garden waste and  
create a rich, fertile soil for your plants. It's also  
a great way to reduce your carbon footprint and  
save money on fertilizer.

### PROBLEMS

PROBLEM	CAUSE	CURE
PLANT DROOP	Not enough water	Water plants regularly
PLANT DROOP	Too much water	Stop watering plants
PLANT DROOP	Not enough nutrients	Use compost or fertilizer
PLANT DROOP	Too much nutrients	Stop fertilizing plants
PLANT DROOP	Not enough sunlight	Move plants to a sunny area
PLANT DROOP	Too much sunlight	Move plants to a shaded area
PLANT DROOP	Not enough air circulation	Prune plants regularly
PLANT DROOP	Too much air circulation	Plant windbreaks

### PLANTING CALENDAR

PLANTING CALENDAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Asparagus (C)												
Beans, Snap (C)												
Beans, Lima (C)												
Beans, Pole (C)												
Beets (C)												
Broccoli (C)												
Brussels Sprouts (C)												
Cabbage (C)												
Carrots (C)												
Leafy Greens (C)												
Chard (C)												
Corn (C)												
Cucumbers (C)												
Eggplant (C)												
Kale (C)												
Kohlrabi (C)												
Leeks (C)												
Onions (C)												
Parsnips (C)												
Peas (C)												
Peppers (C)												
Potatoes (C)												
Spinach (C)												
Squash (C)												
Tomatoes (C)												
Zucchini (C)												

### COMPOSTING NEEDLES

TYPE	SCOURCES	DISADVANTAGES
COPIES	Most newspapers and magazines	Some papers are coated with plastic or wax, which can harm the soil.
COPIES	Most newspapers and magazines	Some papers are coated with plastic or wax, which can harm the soil.
COPIES	Most newspapers and magazines	Some papers are coated with plastic or wax, which can harm the soil.
COPIES	Most newspapers and magazines	Some papers are coated with plastic or wax, which can harm the soil.
COPIES	Most newspapers and magazines	Some papers are coated with plastic or wax, which can harm the soil.

### REFERENCES

For more information on composting, please visit the following websites:

- Composting: A Beginner's Guide
- Composting: A Beginner's Guide
- Composting: A Beginner's Guide
- Composting: A Beginner's Guide
- Composting: A Beginner's Guide

### MADE YOUR OWN EDIBLE ESTATE

WHAT YOU WILL NEED	BASIC INSTRUCTIONS	THINGS TO CONSIDER
1. A large container (such as a 5-gallon bucket) with a lid.	1. Add a layer of brown material (such as straw or leaves) to the bottom of the container.	1. Make sure the container is in a shaded area.
2. A layer of green material (such as grass clippings or vegetable scraps).	2. Add a layer of green material on top of the brown material.	2. Make sure the container is covered with a lid.
3. A layer of brown material (such as straw or leaves).	3. Add a layer of brown material on top of the green material.	3. Make sure the container is covered with a lid.
4. A layer of green material (such as grass clippings or vegetable scraps).	4. Add a layer of green material on top of the brown material.	4. Make sure the container is covered with a lid.

**Edible Estates #1: Salina, Kansas - 2005 / brochures**



**Foti residence - Lakewood, California**

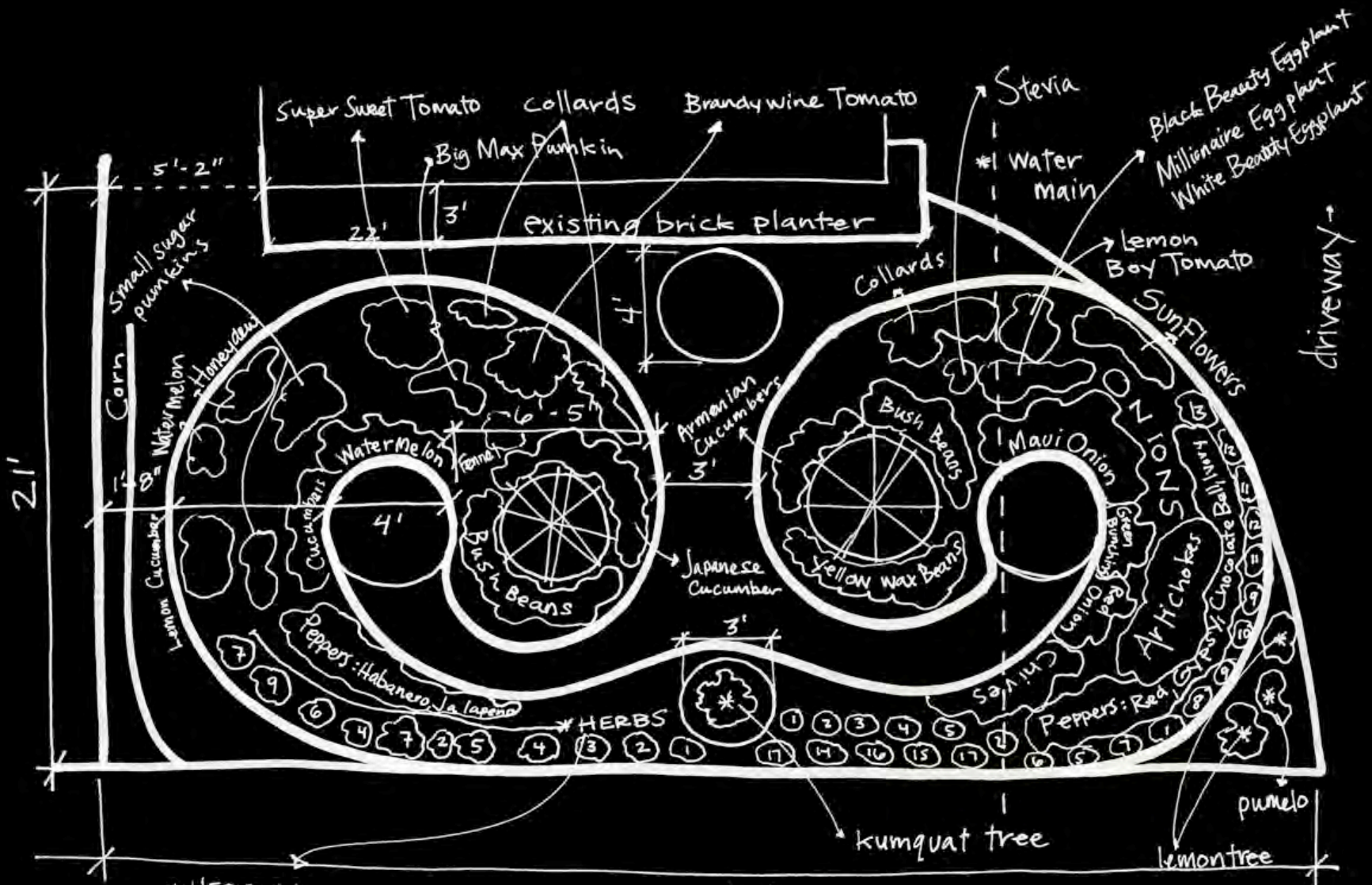




**Edible Estate #2: Lakewood, California - 2006**



**Edible Estate #2: Lakewood, California - 2006**



**\* HERBS:**

- |                      |                         |                |                    |                      |
|----------------------|-------------------------|----------------|--------------------|----------------------|
| 1. purple sage       | 7. variegated oregano   | 10. lemon balm | 14. French Thyme   | 16. Creeping Thyme   |
| 2. barbecue rosemary | 8. greek oregano        | 11. chamomile  | 15. English Thyme  | 17. Variegated Thyme |
| 3. dwarf curry       | 9. magic mountain basil | 12. chervil    | 13. curled parsley |                      |
| 4. sage              |                         |                |                    |                      |
| 5. tarragon          |                         |                |                    |                      |
| 6. italian oregano   |                         |                |                    |                      |

sidewalk/street



**Michelle, Chris & Atticus Christman-Wei on their front lawn / June 2007**



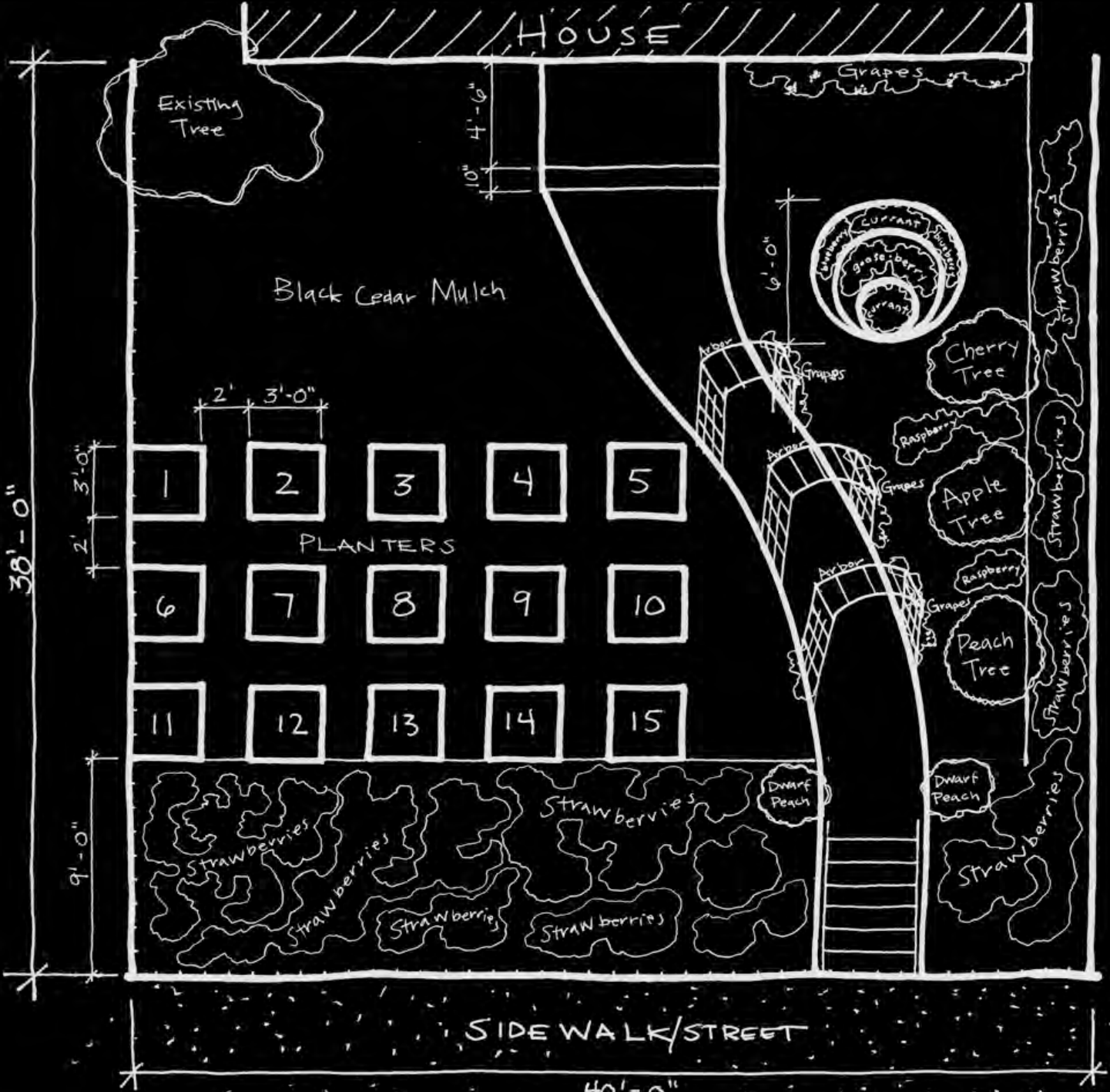
**volunteers help to plant and mulch / July 8th, 2007**



**Edible Estate #3: Maplewood, New Jersey - 2007**



**Edible Estate #3: Maplewood, New Jersey - 2007**



SIDE WALK/STREET

40'-0"

38'-0"

HOUSE

Existing Tree

Black Cedar Mulch

PLANTERS

- |    |    |    |    |    |
|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  |
| 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 |



Cherry Tree

Apple Tree

Peach Tree

Dwarf Peach

Dwarf Peach

Strawberries

Strawberries

Strawberry

Strawberries

Strawberries

Strawberries

Strawberries

Strawberries

Strawberries

3'-0"

2'

9'-0"

10"  
4'-6"

6'-0"

2' 3'-0"

Arbor

Grapes

Arbor

Arbor

Grapes

Grapes

Grapes

Grapes

Grapes

Grapes

Grapes

Grapes

Grapes

Grapes

Grapes

Grapes

Grapes

Grapes

Grapes





**Brookwood Estate - London, UK, 2007**



**Edible Estate #4: London, England - 2007**



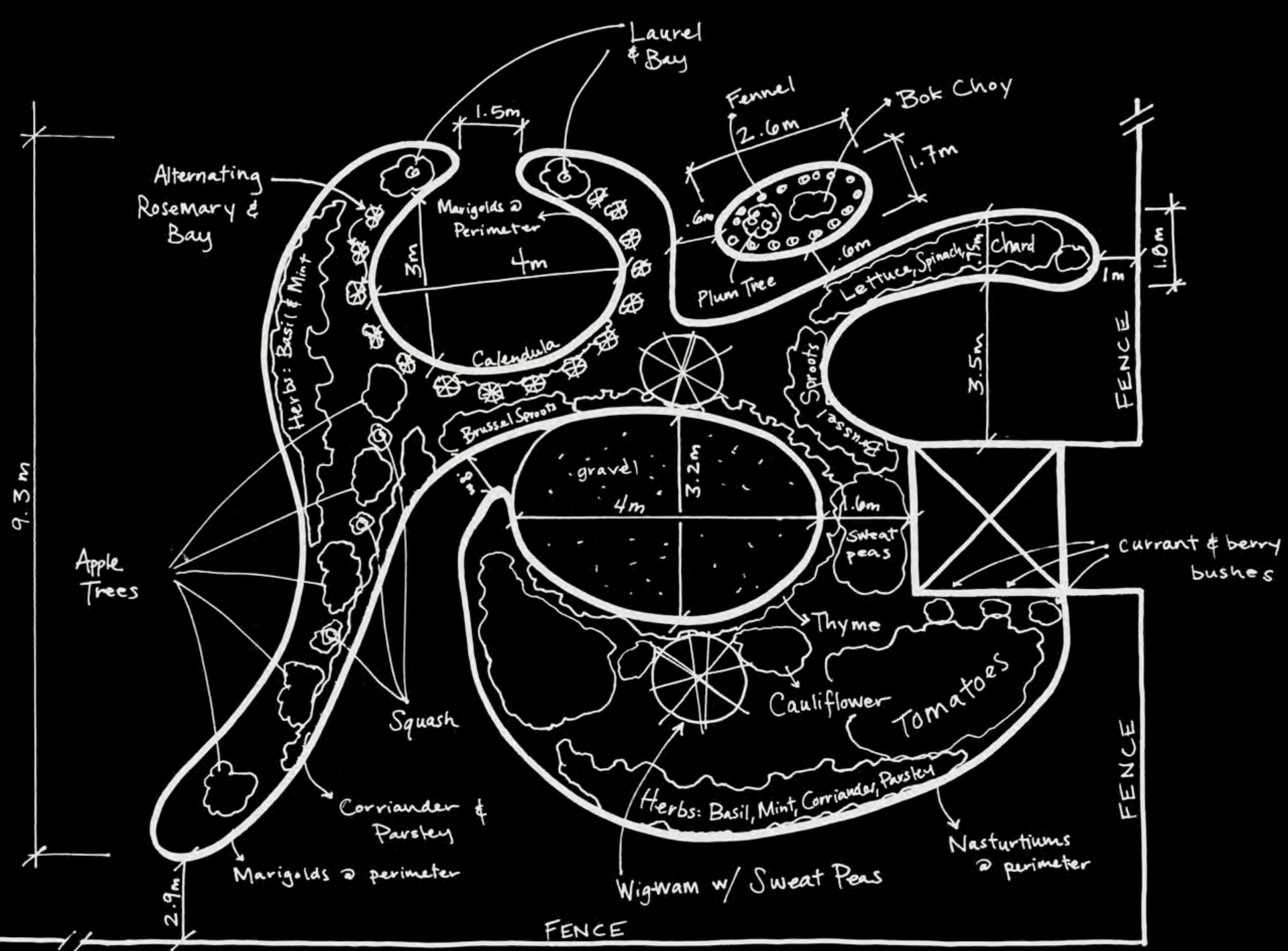
**Edible Estate #4: London, England - 2007**



**Edible Estate #4: London, England - 2007**

**BANKSIDE BOUNTY**  
Artist Fritz Haeg's deep, swirling beds, raised to avoid the polluted soil, provide an edible oasis in one of London's least-gardened boroughs







*Edible Estates Temporary HQ / Tate Modern Turbine Hall - 2007*



**Edible Estate #5: Austin, TX - 2007 / Sierra Ridge Apartments**





**Edible Estate #5: Austin, TX - 2007 / Sierra Ridge Apartments**



**Edible Estate #5: Austin, TX - 2007 / Sierra Ridge Apartments**



**Edible Estate #5: Austin, TX - 2007 / Sierra Ridge Apartments**





**Edible Estate #5: Austin, TX - 2007 / Sierra Ridge Apartments**



**Ridgley residence - Baltimore, Maryland**



**Edible Estate #6: Baltimore, Maryland - 2008**



**Edible Estate #6: Baltimore / after planting**





**Edible Estate #6: Baltimore / after planting**



**Edible Estate #7: Descanso Demonstration Garden  
La Canada Flintridge, CA, 2008**



**Edible Estate #7: Descanso Demonstration Garden  
La Canada Flintridge, CA, 2008**



*Edible Estates is a practical food-producing initiative,  
a place-responsive landscape design proposal,  
a scientific horticultural experiment,  
a conceptual land-art project,  
a defiant political statement,  
a community outreach program,  
an act of radical gardening!*

### FOR YOUR CONSIDERATION: THINK OUTSIDE THE LAWN...

The Edible Estates Initiative—inspired by artist, architect and gardener Fritz Haag of Los Angeles—proposes we consider replacing a portion of the standard suburban lawn with a highly productive garden of vegetables, fruits, herbs and other edible foodcrops.

Descanso Gardens asked Fritz Haag to create an Edible Estates Demonstration Garden for 2008. Haag's installation contrasts the use of suburban lawns for growing plants we can eat versus growing a lawn.

### TURF THROUGH TIME

America's love affair with the lawn dates back to the rising moorlands of the 18th-century English estate. Only the wealthy could afford to leave the land surrounding their manors dedicated to lawn and not used for farming.

This was a symbol of their stature in the community. The lawns were kept manicured and fertilized by grazing animals and constantly green in the rainy English climate. The lawn aesthetic came to America with both English and French settlers. The lawn as the landscape of suburbia blossomed with Levittown, the famous housing project built on Long Island in the 1950s. Promoted by the burgeoning lawn care industry, the perfect, weed-free lawn became an American dream—and obsession.

### TODAY, HOMEOWNERS CONTINUE THE TRADITION OF A LUSH LAWN, BUT DOES IT MAKE SENSE? CONSIDER THESE FACTS:

The grasses that are now grown as "lawn" were not originally native to this continent.



Each one hour of lawn mowing produces the same amount of smog-forming emissions as 40 cars idling in traffic for one hour.

Lawn is the largest single "crop" in America, covering perhaps 40 million acres—about the size of the entire state of Florida.

More than 50% of domestic water use in Los Angeles is used to keep lawns green.



1/2 HOUR = 7,700 MILES

Lawn care—mowers and blowers, pesticides, herbicides, fertilizer—is a \$40 billion a year industry in America—or \$133.33 per year for every man, woman and child in the country.

A gas-powered leaf blower produces in 30 minutes the same hydrocarbon emissions as driving 7,700 miles (LA to NYC and back) at 30 miles an hour.



Of the 30 commonly used lawn pesticides, 17 are detectable in groundwater and 23 have the ability to leach into groundwater.

**Edible Estate #7: Descanso Demonstration Garden  
La Canada Flintridge, CA, 2008**



Do something for both  
the planet and your health:  
grow some food!

### WHAT YOU MAY NOT KNOW ABOUT YOUR FOOD:

Food in the grocery store is often cultivated less for taste and more for ease of transportation, appearance and uniformity.  
Food is sprayed with chemicals to inhibit diseases and pests.  
The produce that goes into the average American dinner for four is trucked 1,500 miles from field to plate.  
Organic farming accounts for less than 1% of the United States agricultural output.  
99% of all our food is produced by an industrialized system of agriculture.  
Most foods are grown as monoculture crops—the antithesis of healthy biodiversity.

Edible gardens go beyond providing nutritional and environmental benefits.  
A garden of edible plants can connect people to the seasons, to the organic cycles of the earth, and with their neighbors. When we become gardeners, we re-embed our connection to the land, what we take from it and what we put back.

TIME TO PLANT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Asparagus	•	•	•									
Beans, Pole	•	•	•	•	•	•	•	•	•	•	•	•
Beets	•	•	•	•	•	•	•	•	•	•	•	•
Broccoli	•	•	•	•	•	•	•	•	•	•	•	•
Broad Beans	•	•	•	•	•	•	•	•	•	•	•	•
Carrots	•	•	•	•	•	•	•	•	•	•	•	•
Cauliflower	•	•	•	•	•	•	•	•	•	•	•	•
Chives	•	•	•	•	•	•	•	•	•	•	•	•
Cilantro	•	•	•	•	•	•	•	•	•	•	•	•
Corn					•	•	•	•	•	•	•	•
Cucumbers	•	•	•	•	•	•	•	•	•	•	•	•
Eggplant	•	•	•	•	•	•	•	•	•	•	•	•
Herbs	•	•	•	•	•	•	•	•	•	•	•	•
Kale	•	•	•	•	•	•	•	•	•	•	•	•
Lettuce	•	•	•	•	•	•	•	•	•	•	•	•
Onions, Bulb	•	•	•	•	•	•	•	•	•	•	•	•
Parsnips	•	•	•	•	•	•	•	•	•	•	•	•
Peppers	•	•	•	•	•	•	•	•	•	•	•	•
Potatoes	•	•	•	•	•	•	•	•	•	•	•	•
Pumpkins	•	•	•	•	•	•	•	•	•	•	•	•
Sprouts	•	•	•	•	•	•	•	•	•	•	•	•
Squash, Summer	•	•	•	•	•	•	•	•	•	•	•	•
Squash, Winter	•	•	•	•	•	•	•	•	•	•	•	•
Strawberry	•	•	•	•	•	•	•	•	•	•	•	•
Sweet Potatoes	•	•	•	•	•	•	•	•	•	•	•	•
Sunflowers	•	•	•	•	•	•	•	•	•	•	•	•
Tomatoes	•	•	•	•	•	•	•	•	•	•	•	•
Watermelons	•	•	•	•	•	•	•	•	•	•	•	•

### PLANNING YOUR OWN EDIBLE ESTATE

What do you like to eat?  
Think foods you and your family will enjoy.  
How much space do you have?  
Start small with herbs in planters, or think big and plant a garden in your entire front yard.  
Where are the sunny and shady areas?  
A little planning can go a long way. Maximize the amount of sun your garden gets by planting taller crops in a place where they won't block sunlight on shorter crops.  
How will you water your garden?  
Choose a method that works best for you and your schedule, whether it is watering by hand or installing drip hoses on a timer.  
Is there an area for people?  
Create a special place to relax and enjoy the food you are growing.

### TRY COMPOSTING

Composting is a great way to create nutrient-rich fertilizer for your garden. Composting also reduces the amount of yard and food waste that goes into the trash and landfills.  
You will need a compost bin—this can be made of wood, metal or plastic, and must have holes for aeration.  
Fill bin with compostable items such as coffee grounds, eggshells, fruit, vegetables and other organic food items (no meat, dairy or oils) as well as grass clippings, wood chips, leaves, and low grade paper.  
Add water regularly so the pile remains damp.  
Your pile should be turned once a week and will be ready to be added to a garden in about a month.  
It is important to have a 20/10 ratio of nitrogen rich (green) and carbon rich (dry) items in your compost.

The food you grow yourself will be chemical free, taste better, and you will help the environment.

**Edible Estate #7: Descanso Demonstration Garden  
La Canada Flintridge, CA, 2008**



**Edible Estate #7: Descanso Demonstration Garden**



**Edible Estate #7: Descanso Demonstration Garden  
La Canada Flintridge, CA, 2008**



**Edible Estate #7: Descanso Demonstration Garden  
La Canada Flintridge, CA, 2008**

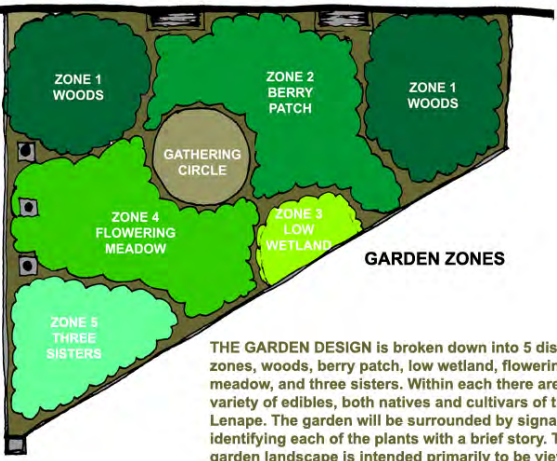




**Aerial view of lower Manhattan: September 10th, 1609 & today  
from Mannahatta Project**



This garden landscape has been created to provide a view back to the lives of the native Lenape people, how they lived off the land 400 years ago on the island of Mannahatta, from the native edible plants and their mounded plantings of beans, corn and squash, also know as "three sisters." This garden is a meditation both on the historical facts and the future possibilities for our occupation of the island.

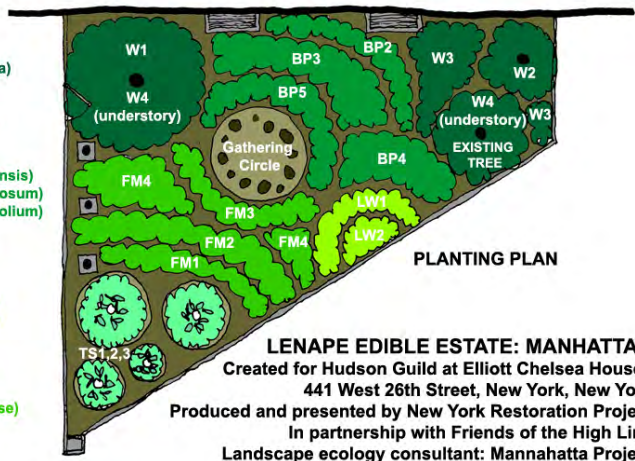


GARDEN ZONES

THE GARDEN DESIGN is broken down into 5 distinct zones, woods, berry patch, low wetland, flowering meadow, and three sisters. Within each there are a variety of edibles, both natives and cultivars of the Lenape. The garden will be surrounded by signage identifying each of the plants with a brief story. This garden landscape is intended primarily to be viewed from the outside, looking into the past. A central gathering circle will be available to groups of visiting students both working on and studying the garden.

**PLANTING LIST**

- ZONE 1 - WOODS**
  - W1 Common Persimmon (*Diospyros virginiana*)
  - W2 Red Cedar (*Juniperus virginiana*)
  - W3 American Hazelnut (*Corylus americana*)
  - W4 Solomon's Seal (*Polygonatum biflorum*)
- ZONE 2 - BERRY PATCH**
  - BP1 Common Elderberry (*Sambucus canadensis*)
  - BP2 Highbush Blueberry (*Vaccinium corymbosum*)
  - BP3 Lowbush Blueberry (*Vaccinium angustifolium*)
  - BP4 Raspberry (*Rubus idaeus*)
  - BP5 Wild Strawberry (*Fragaria virginiana*)
- ZONE 3 - LOW WETLAND**
  - LW1 Jack-in-the-Pulpit (*Arisaema triphyllum*)
  - LW2 Skunk Cabbage (*Symplocarpus foetidus*)
- ZONE 4 - FLOWERING MEADOW**
  - FM1 Butterfly Milkweed (*Asclepias tuberosa*)
  - FM2 Common Milkweed (*Asclepias syriaca*)
  - FM3 Jerusalem artichoke (*Helianthus tuberosus*)
  - FM4 Big Bluestem (*Andropogon gerardii*)
- ZONE 5 - THREE SISTERS**
  - TS1 Corn
  - TS2 Beans
  - TS3 Squash



PLANTING PLAN

**LENAPE EDIBLE ESTATE: MANHATTAN**  
 Created for Hudson Guild at Elliott Chelsea Houses  
 441 West 26th Street, New York, New York  
 Produced and presented by New York Restoration Project  
 In partnership with Friends of the High Line  
 Landscape ecology consultant: Mannahatta Project  
 Edible Estates is an ongoing project by Fritz Haeg  
 Founding sponsor: Gardenburger  
 Established June 13, 2009



*Lenape Edible Estate: Manhattan / Elliot Chelsea Houses / produced by New*



*Lenape Edible Estate: Manhattan / Elliot Chelsea Houses / produced by New*



*Lenape Edible Estate: Manhattan / Elliot Chelsea Houses / produced by New*



*Lenape Edible Estate: Manhattan / Elliot Chelsea Houses / produced by New*



***Lenape Edible Estate: Manhattan / Elliot Chelsea Houses / produced by New***



*Lenape Edible Estate: Manhattan / Elliot Chelsea Houses / produced by New*



# EDIBLE ESTATES

ATTACK ON THE FRONT LAWN 🍌 A PROJECT BY FRITZ HAEG



2ND EDITION

*Edible Estates: Attack on the Front Lawn* / Metropolis Books, 2010





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what's happening now?



# Sundown Schoolhouse (2006-present)

# ~ Sundown Schoolhouse ~ Fall 2006 Classes ~ TOBEAPART ~

~ *Iyengar Yoga* ~ **Qusai Kathawala** ~

~ *Getting to Know Us* ~ **Emily Scott**, Los Angeles Urban Rangers ~

~ *Word Up Word Out: Amplifying the Conversation* ~ **Lisa Anne Auerbach** ~

~ *Everyday Manifesto* ~ **Fritz Haeg** ~

~ *In the Glow of Collective Empowerment* ~ **Aaron Gach**, Center For Tactical Magic ~

~ *Flaps Market Butterfly* ~ part 1 ~ **Marc Herbst** ~

~ *The Dirty Secrets of Judge Judy* ~ **Yoshua Okon** ~

~ *Prana Vinyasa Yoga* ~ **Carol McDowell** ~

~ *Workshop* ~ **Mark Allen & Jason Brown** ~ Machine Project ~

~ *Ecstatic Resistance* ~ **Emily Roysdon**, LTTR {Lesbians To The Rescue} ~

~ *Moving Vegetation & People, Changing Topography, and Sci-Fi Mobilities* ~ **Deena Capparelli** and **Claude Willey**, Moisture ~

~ *Outdoor Dance and Movement Exercises* ~ **Hana van der Kolk** ~

~ *Intersubjective Communications: Psychedelic Journalisms* ~ **Robby Herbst**, The Journal of Aesthetics and Protest ~

~ *Inventing Kindergarten* ~ **Margaret Wertheim**, the Institute For Figuring ~

~ *Finding New Movement* ~ **Flora Weigmann** ~

~ *Why I Like To Write* ~ **Eileen Myles** ~

~ *Local & Remote Anthropology* ~ **Maria Lepowsky** ~

~ *The New Civics* ~ **Rosten Woo** and **Damon Rich**, Center For Urban Pedagogy ~

~ *Field trip to the Smock Shop* ~ **Andrea Zittel** ~



**Sundown Schoolhouse / morning movement & dance - fall 2006**



**Sundown Schoolhouse / morning movement & dance - fall 2006**



**10:30am - visiting teacher (Marc Herbst)**



**Sundown Schoolhouse / fall 2006**



**1-2pm - lunch (with Eileen Myles & Emily Roysdon)**



**2-7pm - visiting teachers**





Goals

- integration of social life and intellectual life across disciplines
- provide access to tools + technologies
- use art as a system to investigate other practices
- support and exhibit neat art

**2-7pm - visiting teachers (Mark Allen of Machine Project)**



**8pm - happy hour - dinner**



**making capes with Andrea Zittel for final bike tour event**



**capas by Andrea Zittel customized for final bike tour event**



**final event - bike tour to the home of each student**



**final event - bike tour to the home of each student**



**Sundown Schoolhouse - daily yoga class**







*Dancing 9 to 5 / Whitney Museum of American Art, Altria - 2007*



*Dancing 9 to 5 / Whitney Museum of American Art, Altria - 2007*



***Philadelphia Training Camp for Expression Skills  
Philadelphia Institute of Contemporary Art - 2007***



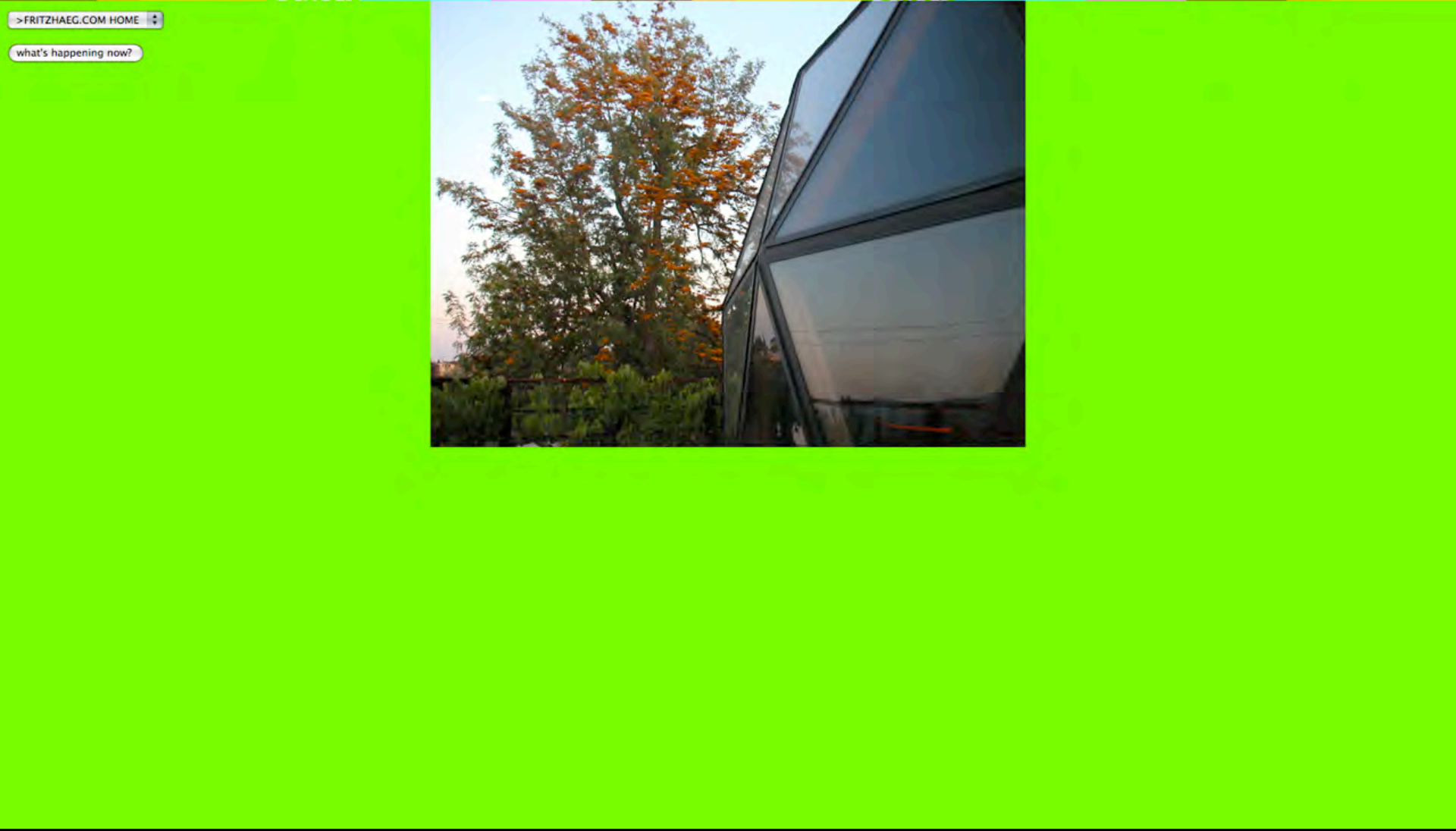
**Sundown Schoolhouse: *Practicing Moving* - Fall 2009  
Center for the Arts Eagle Rock**



**Sundown Schoolhouse: *Practicing Moving* - Fall 2009  
Center for the Arts Eagle Rock**



**Sundown Schoolhouse: *Practicing Moving* - Fall 2009  
Center for the Arts Eagle Rock**



**Sundown Salon (2000-2006)**



*Salon Colada: Miami / MOCA, North Miami, 2009*





*Salon Colada: Miami / MOCA, North Miami, 2009*



***Salon Colada: Miami / MOCA, North Miami, 2009***



***Salon Colada: Miami / MOCA, North Miami, 2009***



*Salon Colada: Miami / MOCA, North Miami, 2009*



**Sundown residence**



**Sundown Salon #22 / *Plans For Other Days* / with Janfamily**



# Get Your News from Plants

Traditional broadcast news (print, radio, television, internet) is irrelevant. These mediums insist upon a definition of news that inately moves their viewers away from life and towards an immature consciousness where thespians, political actors and gossip replace the direct study and knowledge of life, community, society and the colidian balancing between life & death. Plant media informs you about real news, the long-term trends, patterns and cultural habits that have a direct bearing on whether or not your life or the life in your community will continue.

The technology that supports Plant Media generates its news from fixed locations whose environments specifically reflect truths particular to their viewing areas. Conversely, traditional media with its costly, floating technologies must report daily on events with little bearing on human life. It must act as such to entrance us and our wallets reporting its spectral songs- hiding the reality that life is constant, beautiful and threatened by long-term

One of the many local reporters is Coastal Sage (artemesia California) aka cowboy cologne. Its journalistic beat is land use and transportation issues. By watching this reporter, viewers note this plant's growth stunting. With increased nitrogen-laden smog due to pressure, the plants die back. Conversely, listeners hear the plant grow taller as humans act and interact more sensibly.

Every plant is a local reporter on global news trends. The Society of plant reporters is a non-human, self-distributing, professional news network. Most plants, because of their systemic autonomy are best suited to represent and report on the quality of life in your yard and planet without any of the biases traditionally associated with broadcast news.

Sycamore trees (Platanus racemosa null) cover both stiles section and philosophy







**Sundown Salon #28 / The Young Ones / June 18th, 2006**



# The Sundown Lid: A Geodesic hat



The Sundown Lid  
Lisa Anne Auerbach 2004

## Triangle pattern

Gauge: 4.5 stitches per inch

Cast on 16 stitches. Row 1: Knit. Row 2: Purl 2 stitches together. Purl across row until 2 stitches are left. Purl 2 together. Repeat 1 & 2 until the point of the triangle has decreased to nothing.

Construct hat by stitching triangles together with a yarn needle. Use leftover ends from knitting and weave in ends to hide. Keep direction of knitting consistent throughout hat to retain elasticity.

For hat with ear flaps, make 26 triangles and stitch as illustrated. For hat minus ear flaps, omit ear flaps. Finish with a single-crocheted edge. Embellish with pom-poms, crocheted or knitted cords, ribbons, or tassels

Combining various colors in different ways will yield dramatically different looks. Other variations in this hat can be obtained by varying type of yarn used.

You can use various scrap yarn to make the triangles, but it will keep things easier to use scrap yarn which will knit up to the same gauge. I used Brown Sheep wool for my Sundown Lid. It's a good weight weight wool with a little mohair added in. It's a great yarn for DK or baby yarn, knitting in the round on 2 needles with stitches evenly split, decreasing one stitch at the end of each needle

For a different amount of triangles in the crown, change the size completely as illustrated above.

**The Sundown Lid**  
It's not a big deal to make this hat. You just knit up a bunch of triangles and stitch them together. The only real challenge is figuring out how to make a knit equilateral triangle, but this is also not really much of a problem, and math can be a lot of fun, too.

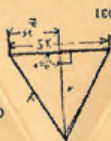
Start by finding the width of the base of the triangle. If you are connecting 6 triangles at the top as I have done, the length of the bottom edge of the triangle multiplied by 6 should be slightly bigger than the diameter of the head.

Most heads are somewhere around 21 inches, so I divided 21 by 6, yielding 3.5. The next factor is the height of the individual squares. To find this, start by drawing out your triangle and trying to remember how to do geometry. Divide your equilateral triangle into two right triangles.

The hypotenuse of this triangle is 3.5, one side is 1.75 and the other side is X, the height of the triangle.

The formula for finding X is:  
 $1.75^2 + X^2 = 3.5^2$

above.



= 3.031

Round this to 3.031 so the triangle should be 3.031" across and 3" tall. After a bit of experimentation, I found that knitting kinds still quite accurately to these proportions without much trouble and that by decreasing 2 stitches every other row, I was able to make triangles which were nearly exactly the correct size.

triangle pattern works for this gauge, but it shouldn't be too difficult to figure out why, so it has a lot of leeway.

66 needles, which gave me a gauge of 4.5 stitches per inch.

ward weight wool with a little mohair added in. It's a great yarn for DK or baby yarn, knitting in the round on 2 needles with stitches evenly split, decreasing one stitch at the end of each needle



**Sundown Salon #11 / Knitknit / February 22, 2004**



#11 / KnitKnit / Feral Childe and dearraindrop / 02.22.04





**Sundown Salon #20 / Salon Salon / July 10, 2005**



**Sundown Salon #21 / *L.A. Literary* / October 23rd, 2005**



**#19 / *Baroque Geode* / with robbinschilds / 02.24.05**



**Sundown Salon #25 / *Where* / May 21, 2006**





**Sundown Salon #23 / *Lesbians to the Rescue***



**Sundown Salon #25 / *Where* / May 21, 2006**



**Sundown Salon #29 / *Dancing Convention* / 07.09.06**



**Sundown Salon #29 / *Dancing Convention* / 07.09.06**



***The Sundown Salon Unfolding Archive - Evil Twin Publications, 2009***



***The Sundown Salon Unfolding Archive - release event, 2009***



***The Sundown Salon Unfolding Archive - Schindler House release event***



**The Sundown Salon Unfolding Archive - Schindler House release event**





***The Sundown Salon Unfolding Archive - Schindler House release event***



***The Sundown Salon Unfolding Archive - Schindler House release event***



*The Sundown Salon Unfolding Archive event, 2009  
London Architecture Foundation: Talking About the Future*

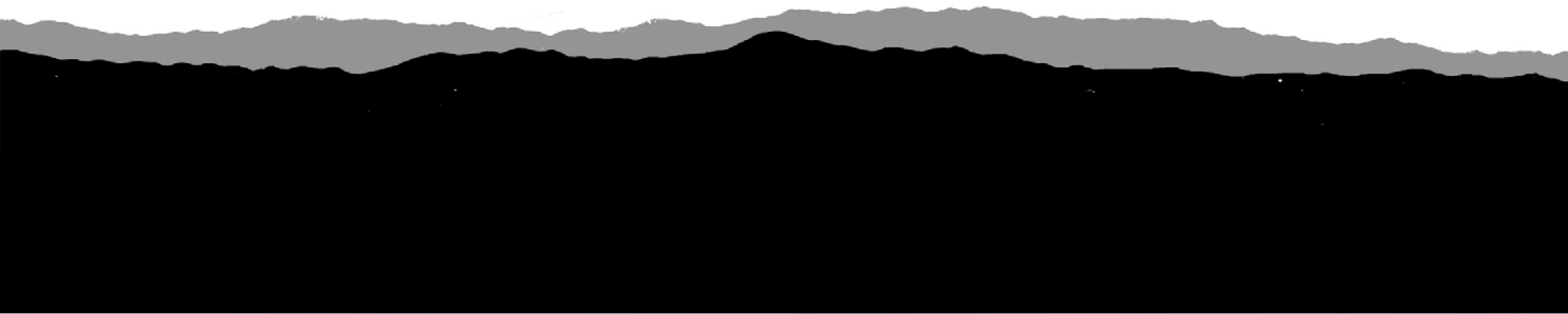


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what's happening now?



# Fritz Haeg Studio (1995-present)



*Dome Colony X in the San Gabriels at X Initiative / 2009*



***Dome Colony X in the San Gabriels at X Initiative / 2009***



*Dome Colony X in the San Gabriels at X Initiative / 2009*



***Dome Colony X in the San Gabriels at X Initiative / 2009***





***Dome Colony X in the San Gabriels at X Initiative / 2009***



*Dome Colony X in the San Gabriels at X Initiative / 2009*



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*Dome Colony X in the San Gabriels at X Initiative / 2009*

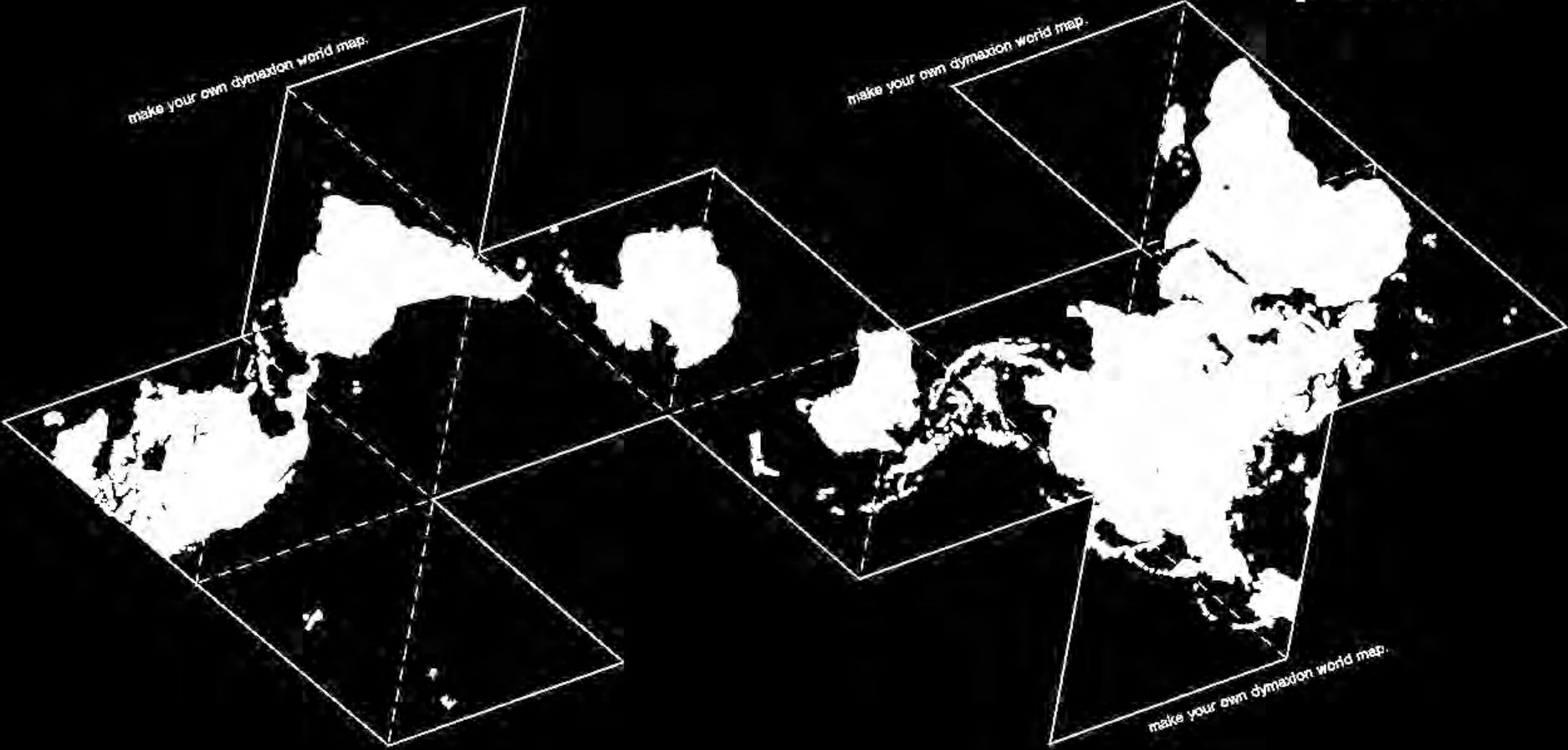


*Dome Colony X in the San Gabriels at X Initiative / 2009*



*Dome Colony X in the San Gabriels at X Initiative / 2009*

plan b







*Plan B / Mass MoCA - 2007*



*Plan B / Mass MoCA - 2007*

*a* **HAPPENING** *on*  
**RIVER** *the*

by CALARTS  
for VALENCIA

**RIVER** **PARADE**

*MAY 14th*  
SUNDAY 5-7 P.M.

**THIS RIVER IS OUR PARADE!**

Celebrate the Santa Clarita River on Mother's Day

Meet at the Pavilions parking lot on the southwest corner where McBean crosses the river

dance, music, costume, art & performance

[www.ourparade.org](http://www.ourparade.org)

or participate

Come to spectate





**Cal Arts / *This River is Our Parade* / Spring 2006**



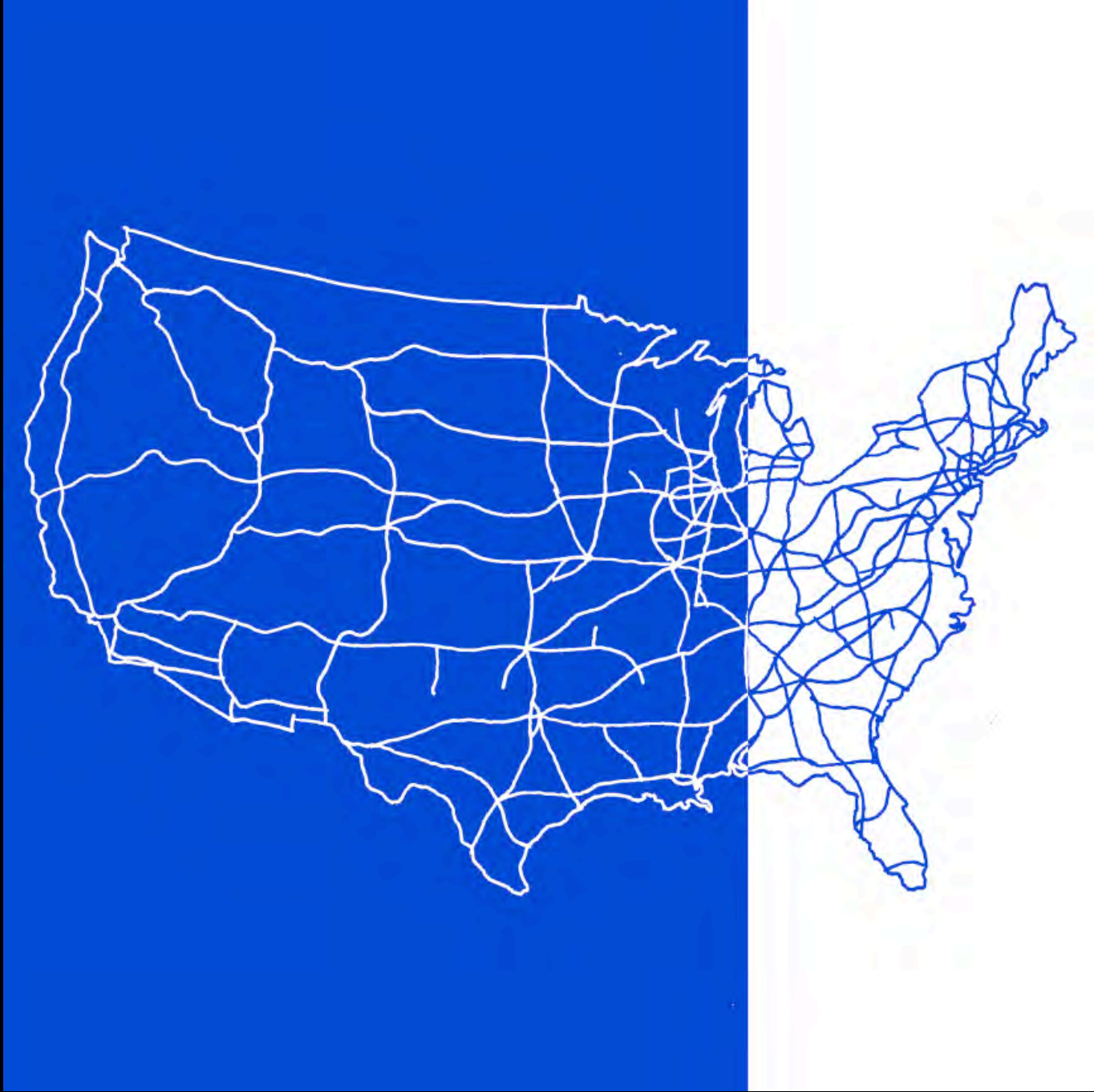
Cal Arts / *This River is Our Parade* / Spring 2006



**Cal Arts / *This River is Our Parade* / Spring 2006**

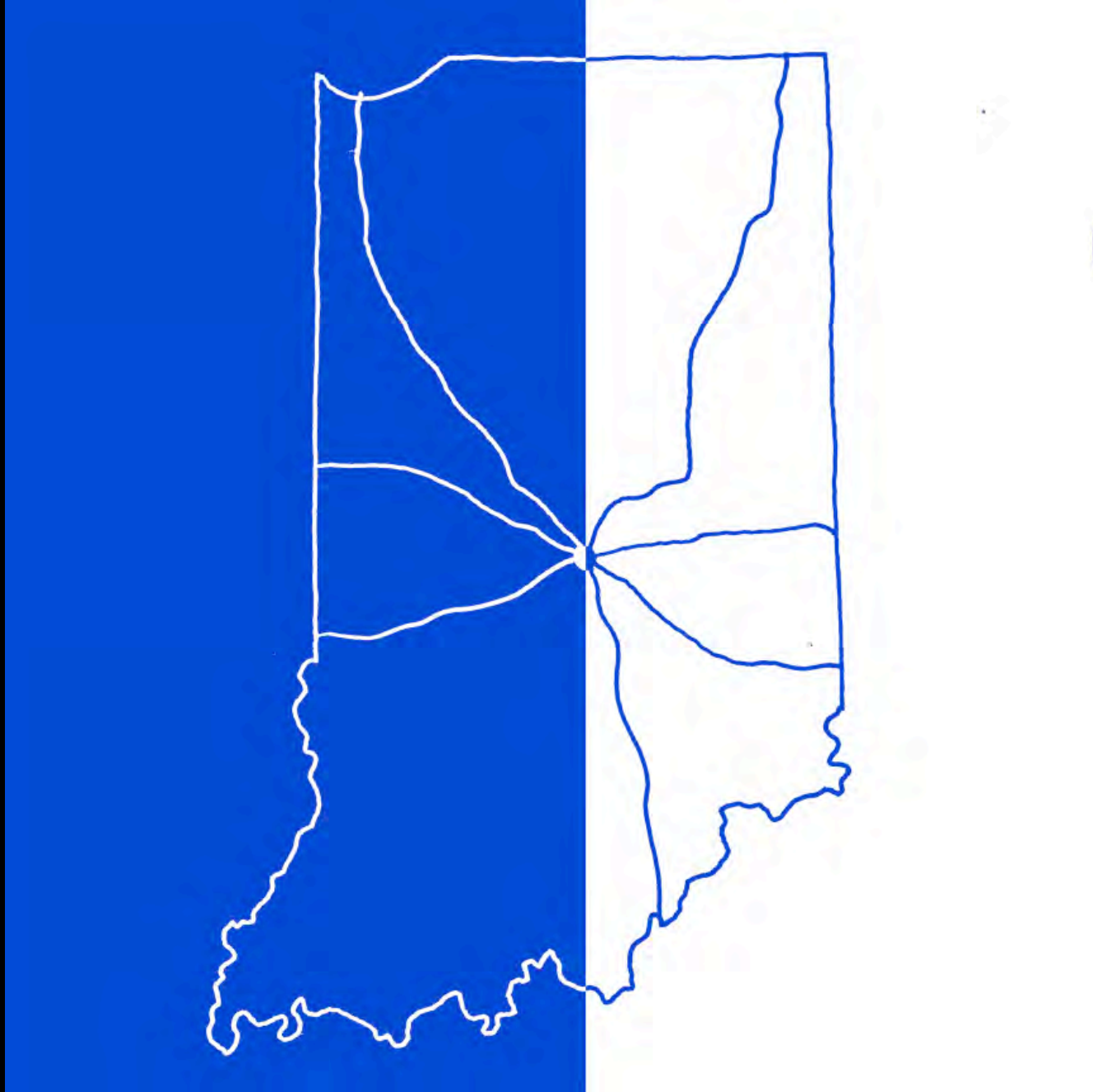


**Cal Arts / *This River is Our Parade* / Spring 2006**

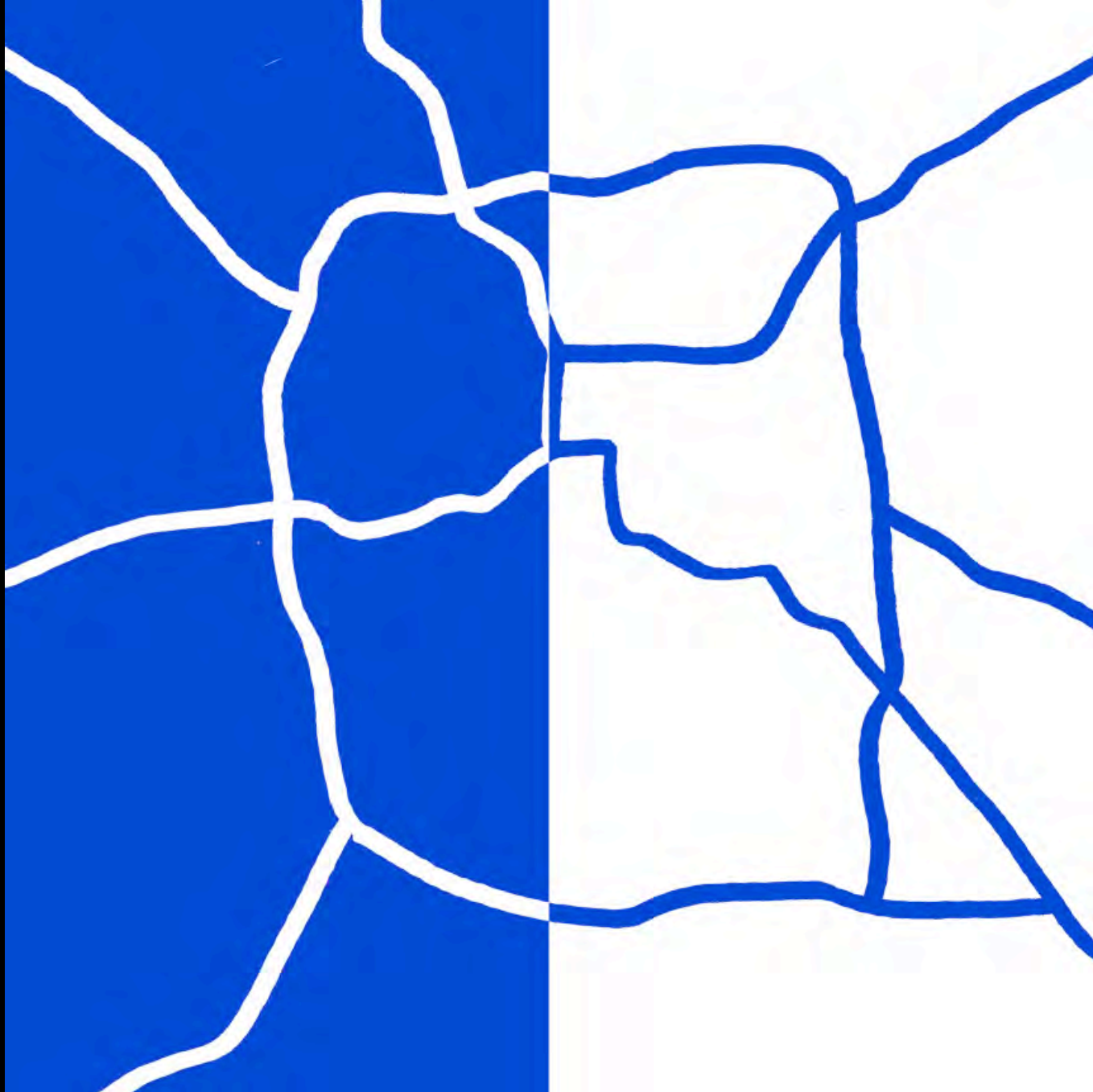


*East Meets West Interchange Overpass Parade, 2008 / USA*

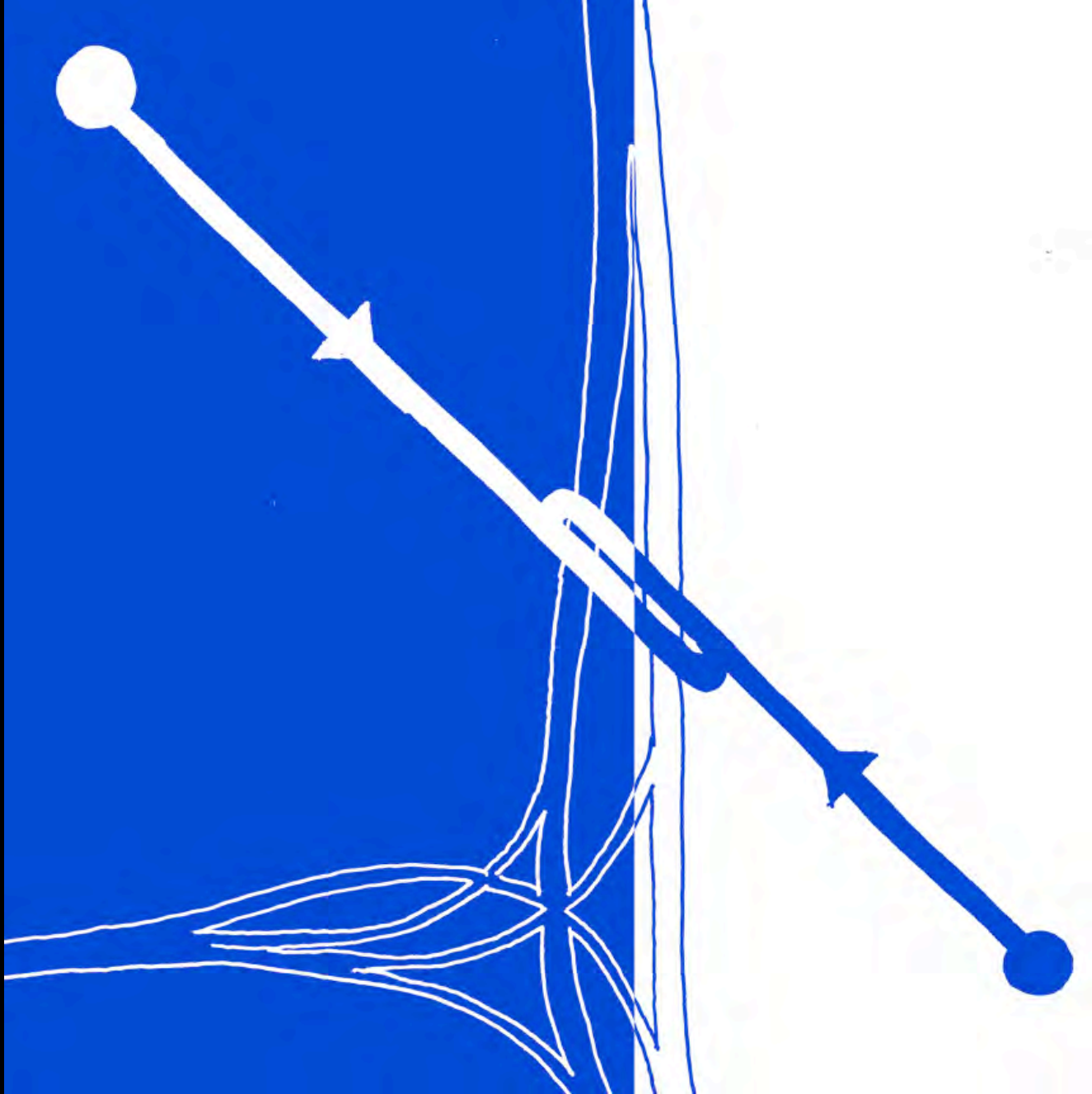




***East Meets West Interchange Overpass Parade / Indiana***



***East Meets West Interchange Overpass Parade / Indianapolis***



*East Meets West Interchange Overpass Parade / parade routes*



***East Meets West Interchange Overpass Parade / WEST stage***



**East Meets West Interchange Overpass Parade / EAST stage**



***East Meets West Interchange Overpass Parade / going EAST & WEST***



*East Meets West Interchange Overpass Parade / overpass*



*East Meets West Interchange Overpass Parade / IMA galleries*





Bernardi residence / Silverlake / Los Angeles, ca / before...



Los Angeles "Spanish style" homes



the Schindler Apartments across the street



Bernardi residence / from the back / before...



study models



study models



under construction as viewed from across the valley



under construction / fall 2006

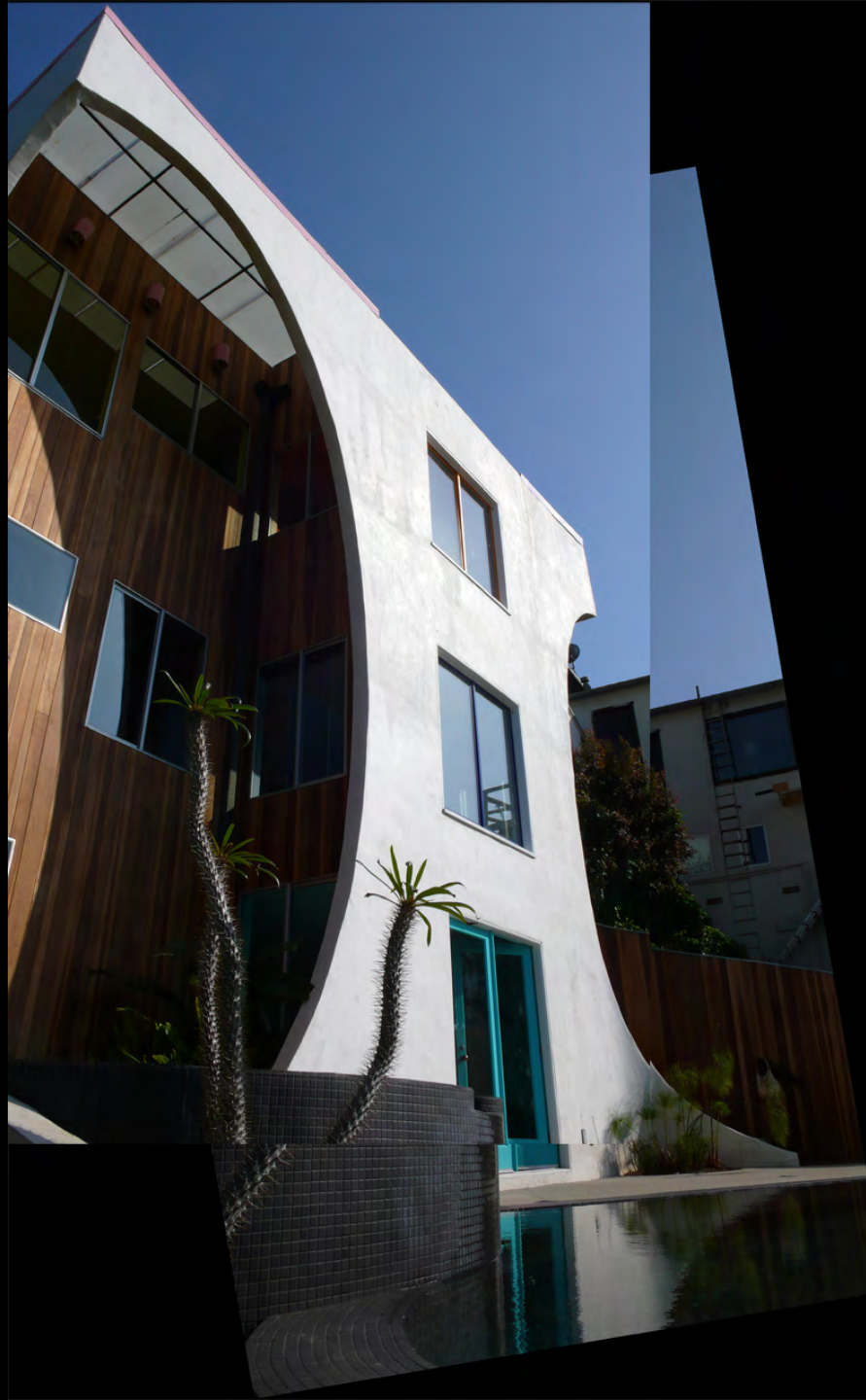






view to pool









view into terrarium and gathering room



gathering area



gathering area









for complete archive go to: [fritzhaeg.com](http://fritzhaeg.com)