



Illustrator

PARA

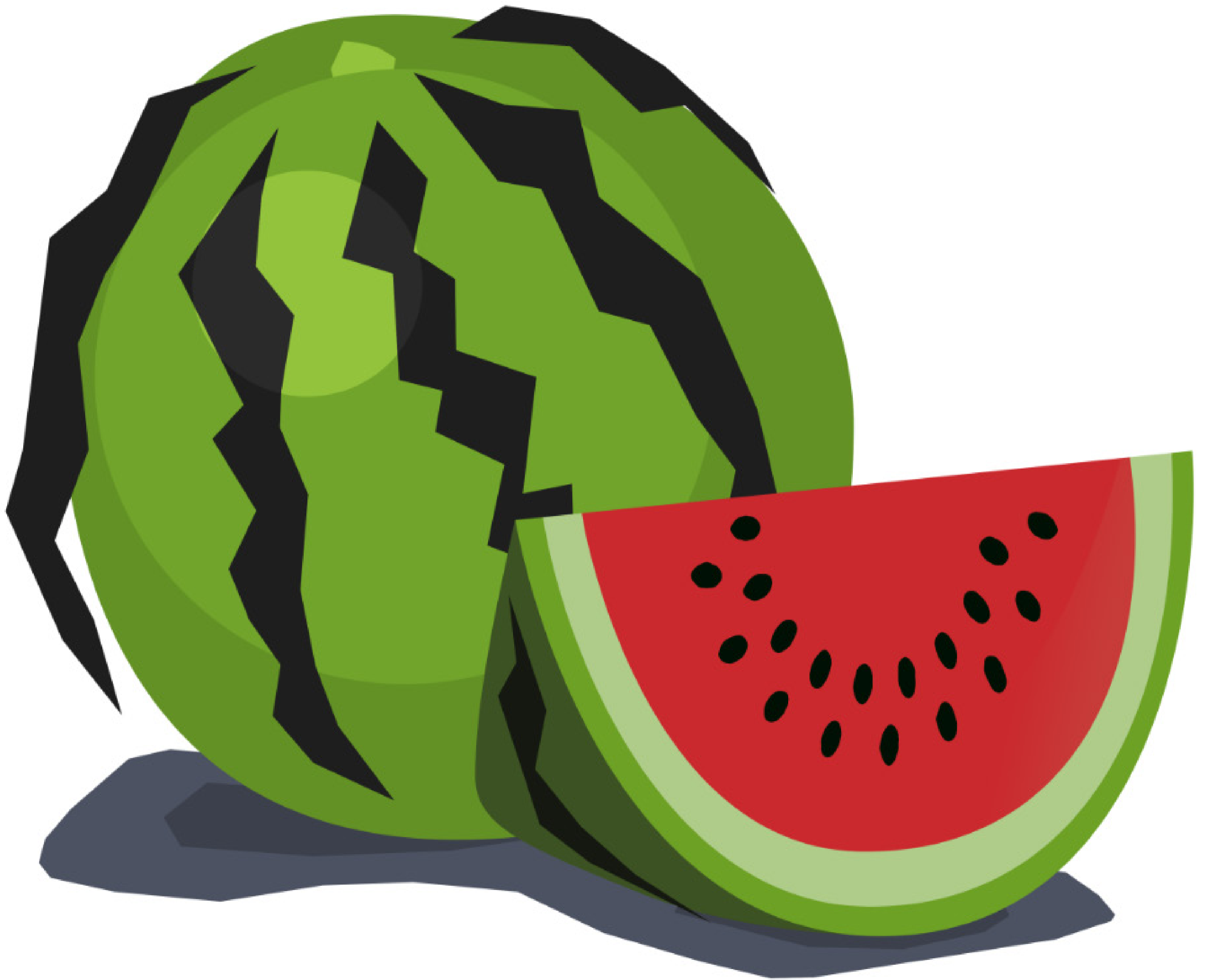




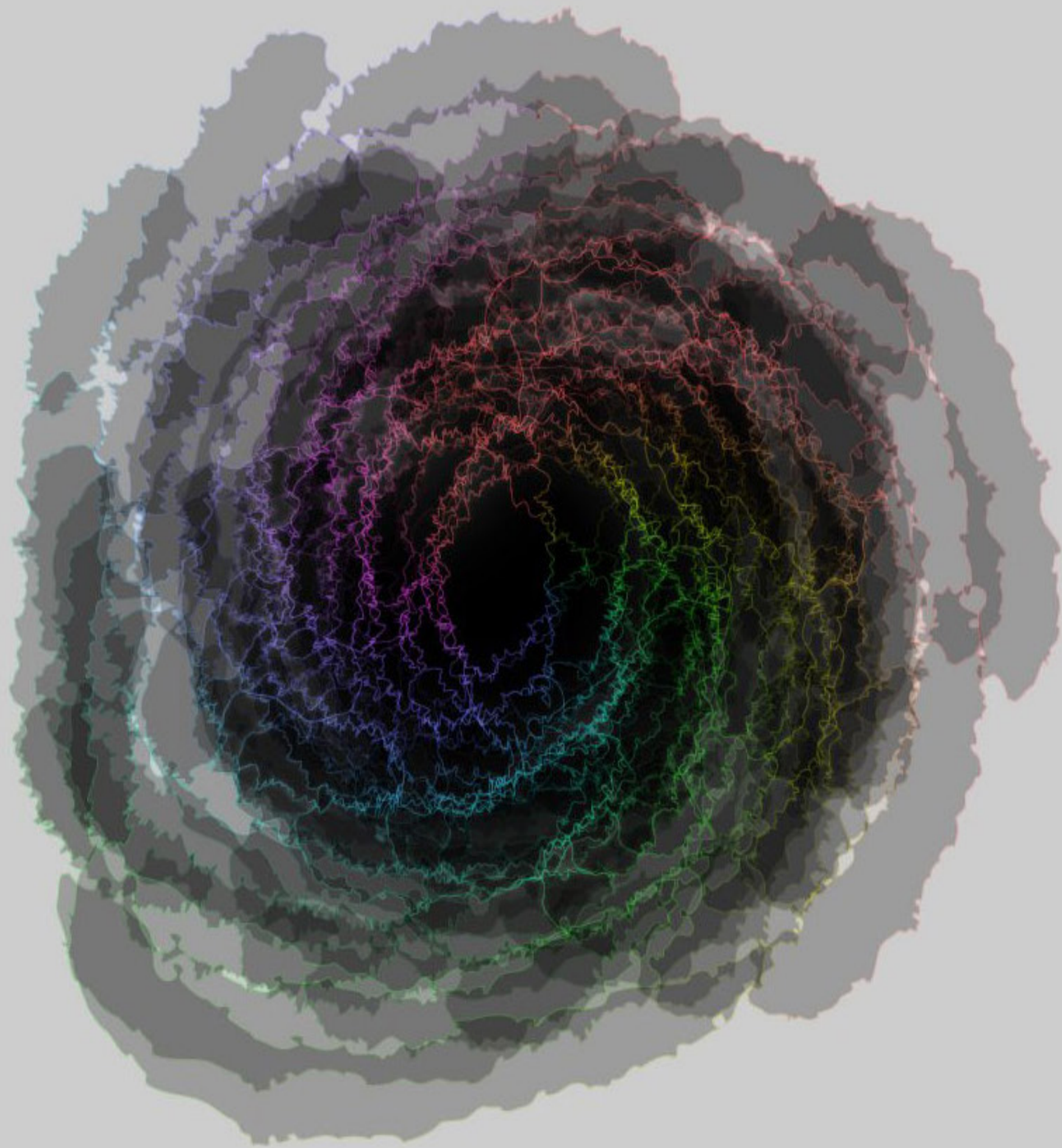
REECE • ANGELL • ROWE



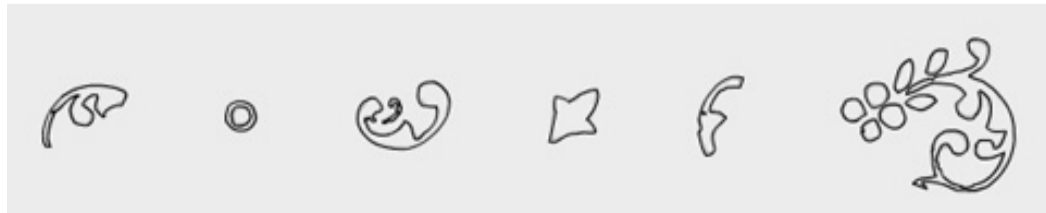
ARCHITECTS

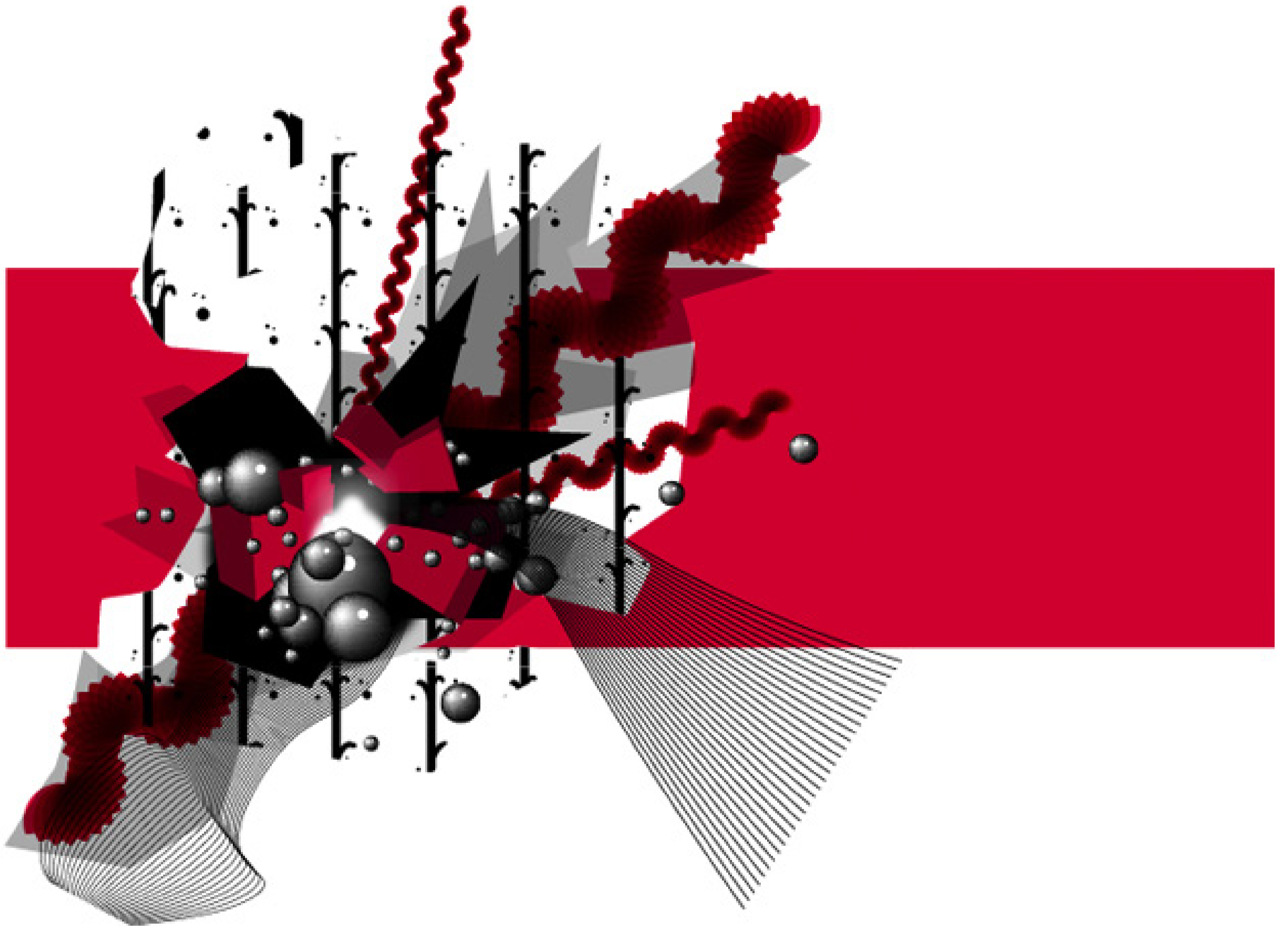






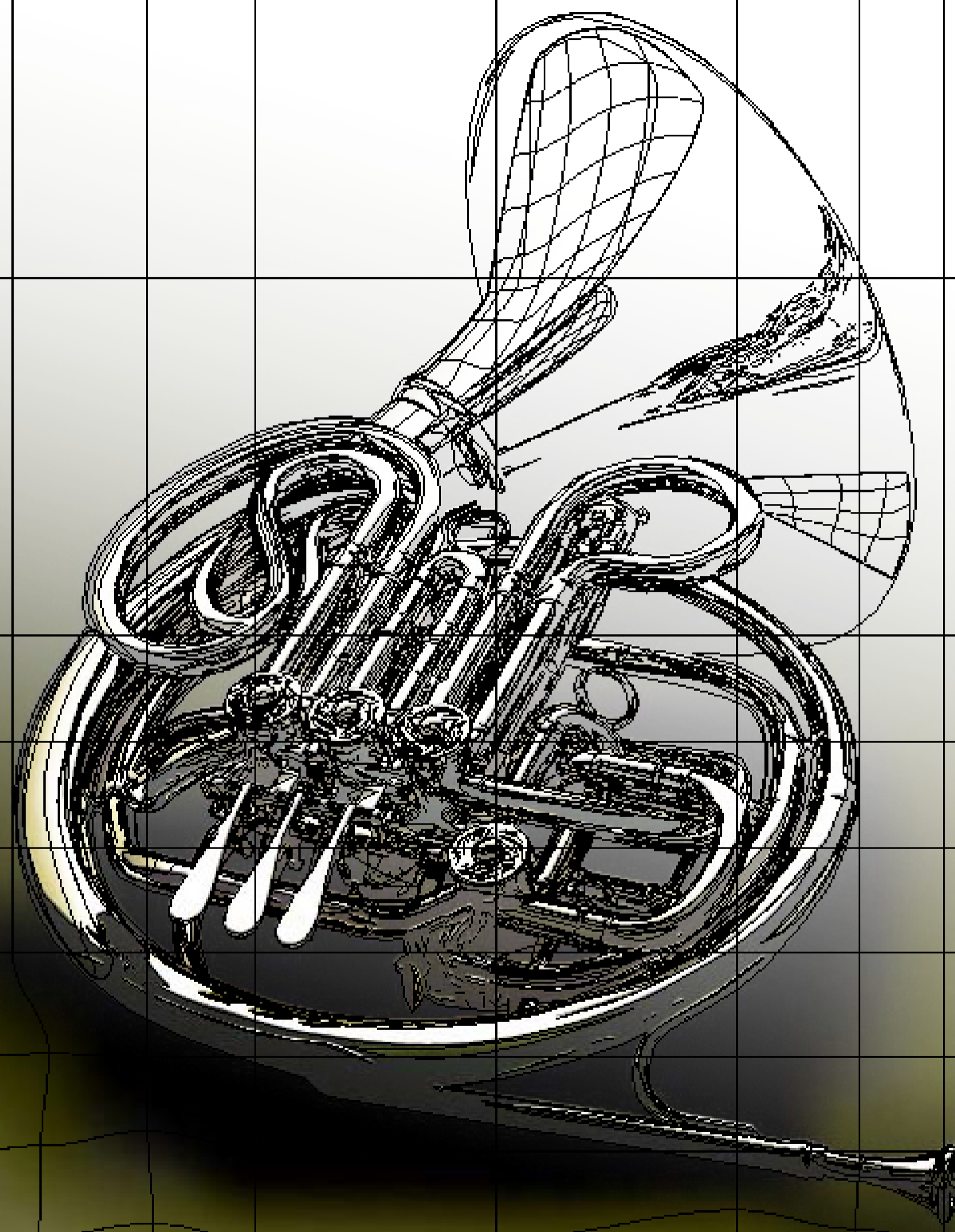


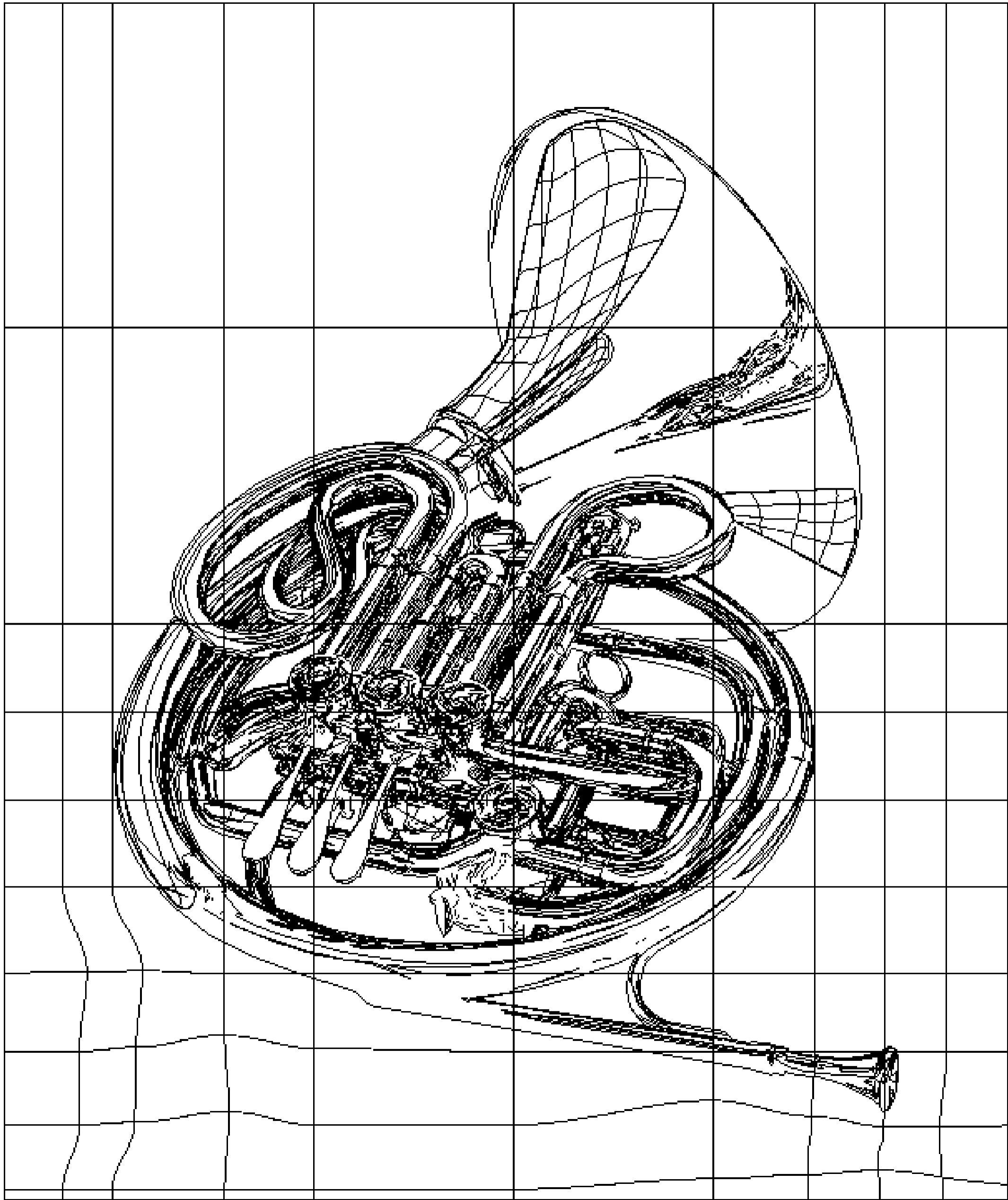




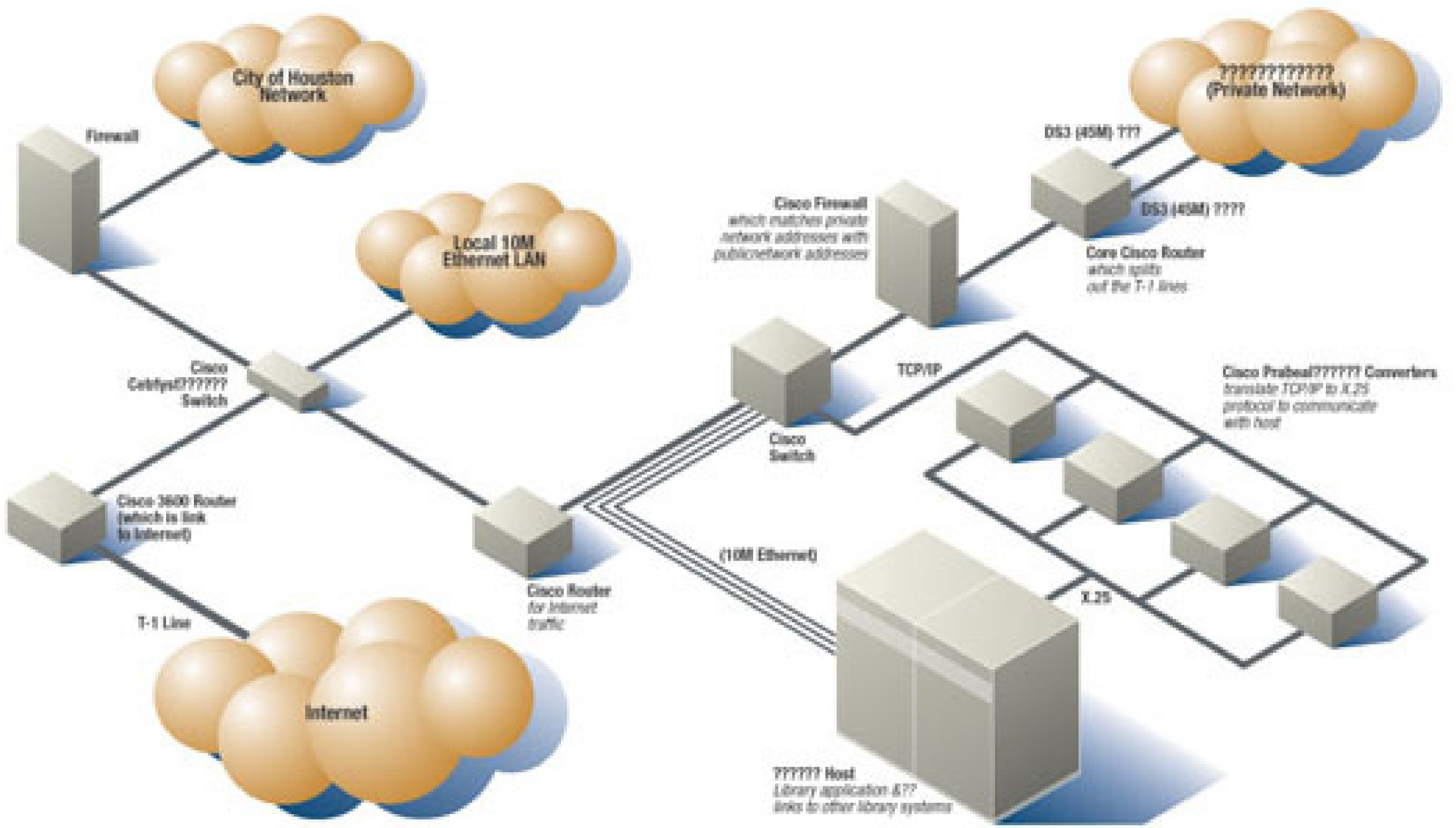


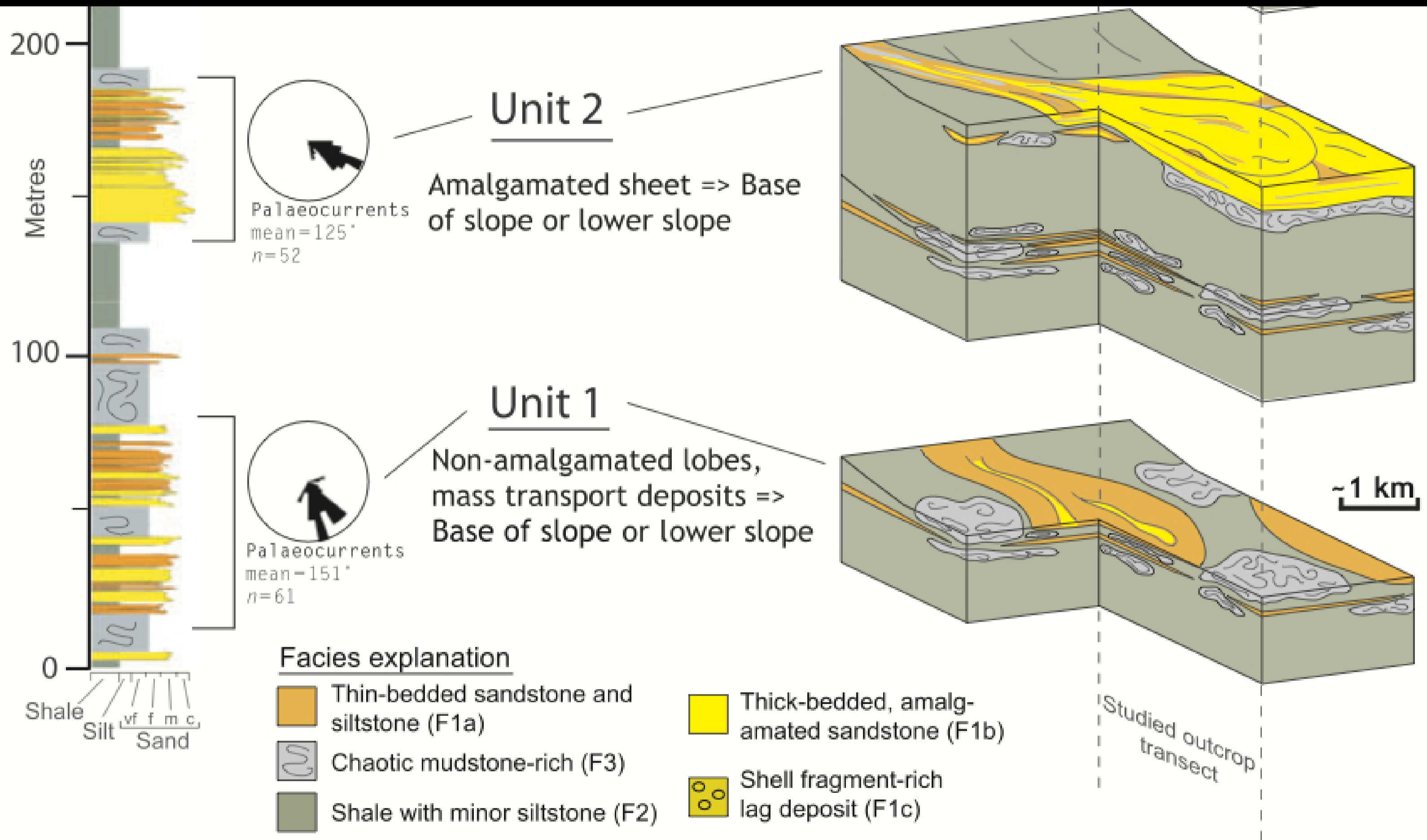




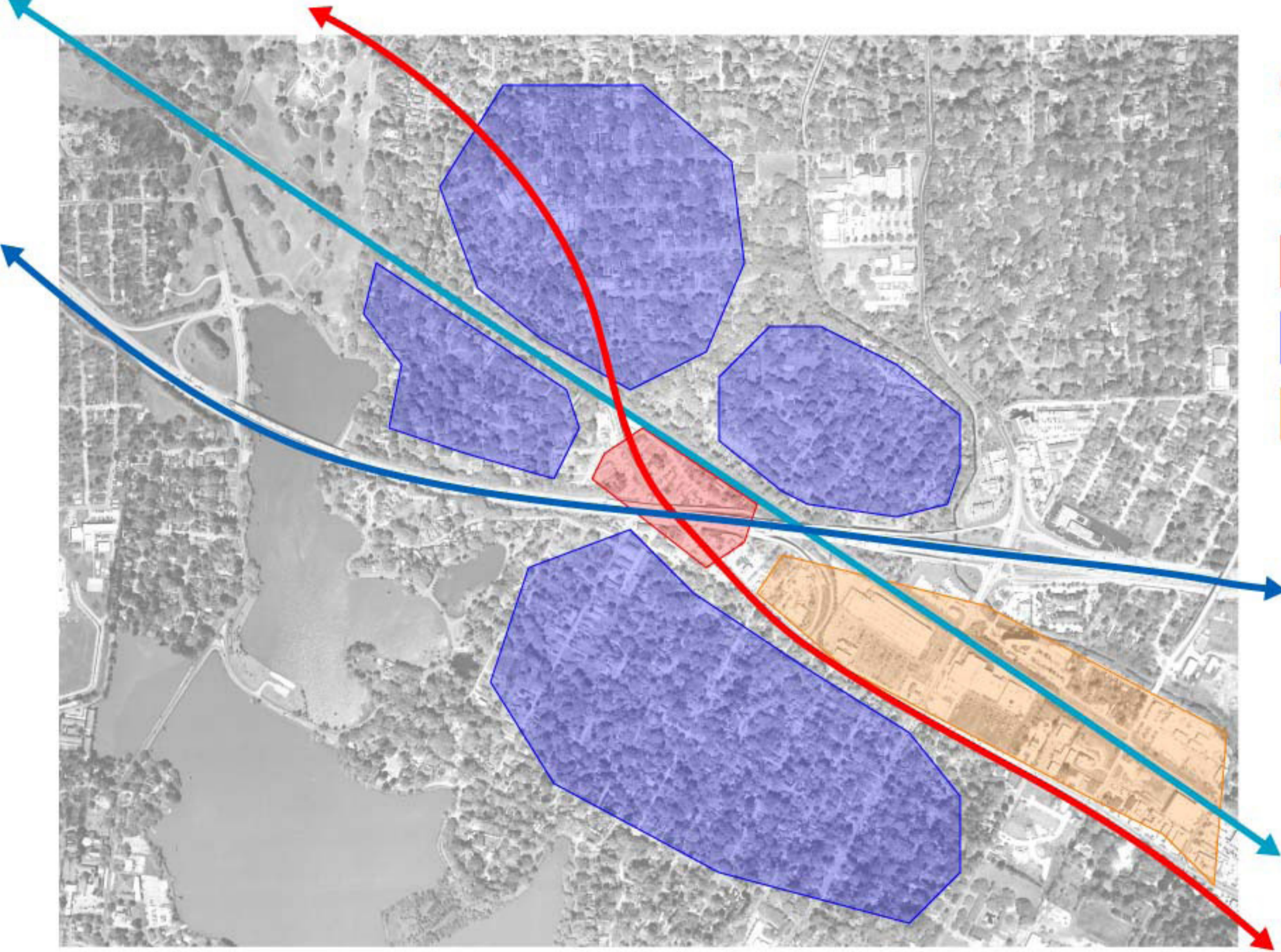






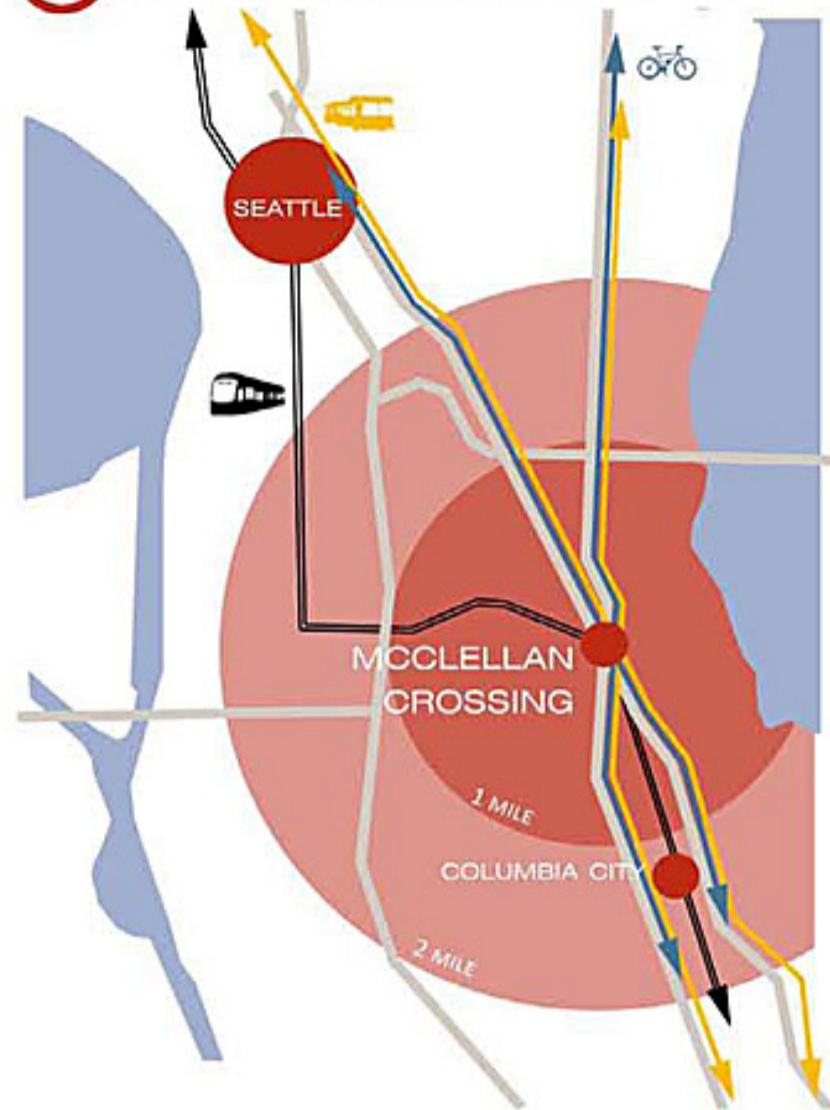


Context Diagram

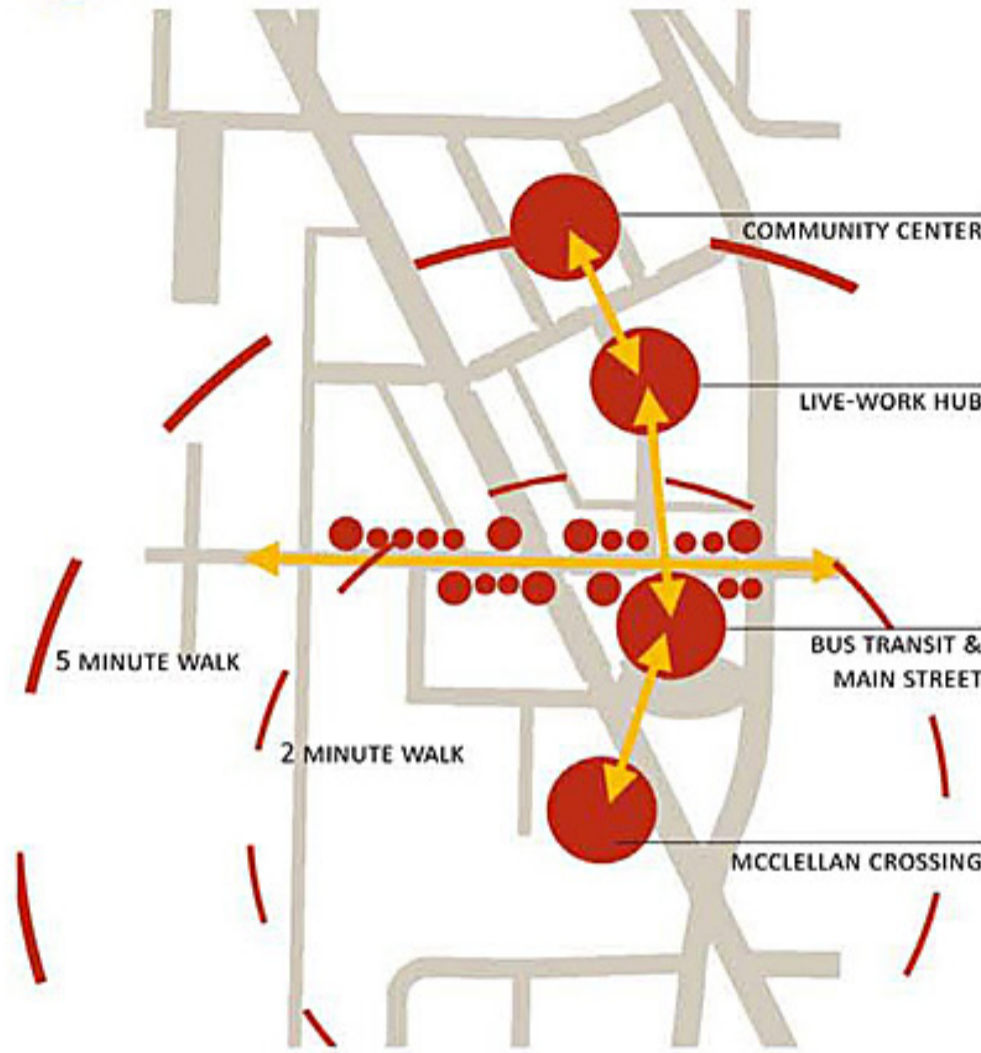


- Perkins
- I10
- Railroad Track
- the Site
- Residential Districts
- Commercial districts

REGIONAL CONNECTIONS



MCCLELLAN CONNECTIONS



DAILY CONNECTIONS



GREENWAY CONNECTIONS



STORMWATER CONNECTIONS



- 

TRAVELING PROFESSIONAL
 START: EXTENDED-STAY HOTEL
 SANDIES BAGELS FOR BREAKFAST
 STARBUCKS
 END: LIGHT RAIL NORTH TO SEATTLE
- 

PEPSICO EMPLOYEE
 START: PEPSICO BOTTLING PLANT
 QFC FOR DINNER INGREDIENTS
 ACE HARDWARE FOR YARD SUPPLIES
 END: DRIVE SOUTH ON RAINIER TO HOME
- 

FAMILY
 START: LIVE/WORK HOME
 CHECK ON P-PATCH GARDEN
 GROCERIES AT QFC
 PRESCRIPTIONS AT RITE AID
 BACK HOME
 COMMUNITY DAY CARE
 END: CLASS AT U OF W GREEN CENTER
- 

PERSON MOVING
 START: LIGHT RAIL FROM SEATTLE
 RITE-AID FOR A CASH MACHINE
 STARBUCKS FOR FUEL
 ACE HARDWARE FOR PACKING SUPPLIES
 END: UHAUL TO PICK UP MOVING TRUCK
- 

FRANKLIN HIGH SCHOOL STUDENTS
 START: FRANKLIN HIGH SCHOOL
 BUS TRANSIT PLAZA TO MEET FRIENDS
 PHO SOUP FOR DINNER
 INDEPENDENT FILM AT CINEMA
 END: WALK TO HOME IN MCCLELLAN CROSSING

InDesign

Peter M. Gruhn

5 Charlesdale Rd., Medfield, MA 02052 • 508-359-2847 h • 508-785-5361 m • peter.gruhn@the-bac.edu

Education

Boston Architectural College, B. Arch. candidate. January 2006 - Present
Rensselaer Polytechnic Institute, B.S. Computer Science, Minor Architecture. 2005
Scottsdale Community College, A.A.S. Arch. Tech. With Highest Distinction (4.0 GPA). 2005

Design Experience

DiMella Shaffer (via Dakota Design Staff) **Boston, MA**
Draftsperson **Feb. 2008 – May 2008**

- Develop responses to RFIs in cooperation with other members of Construction Administration team for high end 750,000 multi-family residential project.
- Prepare sketches, research code, suggest design changes as appropriate.

Stirling/Brown Architects (via Dakota Design Staff) **Winchester, MA**
Draftsperson **Sept. 2007 - Dec. 2007**

- Develop alternates for design problems
- Create new and modify existing drawings for DD and CD phases of projects including 7,000+ s.f. custom home, and 1,700 s.f. columbarium addition. Work encompassed generating roof plans, and elevations, completion of building sections to include existing and modified details, creation of 3d models to generate elevations.

Boston Architectural College **Boston, MA**
Tutor; Classroom Aide; New Student Orientation Ambassador **Sept. 2006 - Present**

- Tutor AutoCAD, 3ds Max, Structures, and other subjects.
- Assist Design Principles instructor with classroom operations.
- Lead incoming students in introductory design school experiences.

Self Employed **Boston, MA**
Consultant **Jan. 2006 - Present**

- VFA, Inc - Check and correct as-builts using AutoCAD.
- RAR Architects - Create architectural visualizations using AutoCAD, 3ds Max and Photoshop.
- AppAxis - Web development using MSVS, C#, ASP.NET, CSS, HTML, Photoshop.

Reece Angell Rowe Architects **Phoenix, AZ**
Assistant **Jan. 2001 – Feb. 2006**

- Field measure existing sites and buildings; supervise architectural interns in field.
- Prepare drawings from site visits using AutoCAD.
- Prepare context plans using site photography, web GIS software and AutoCAD.
- Create colored elevations using Photoshop and AutoCAD.
- Participate in city and client meetings.
- Maintain and update marketing material using digital photography, Photoshop and Word.
- Provide receptionist and general office help services, including phone and typing.

Other Employment Experience

Omega Legal Systems **Phoenix AZ**
Software Engineer **1997 – 1999**

Realtime Performance **Sunnyvale CA**
Software Engineer **1996 – 1996**

deltaComm Development **Morristown NC**
Software Engineer **1993 – 1996**

Reaction to “Armilla” from Italo Calvino’s “Invisible Cities”

*A2 Studio
Spring 2007
Peter Gruhn, B. Arch*



Water is life. Coming out of Arizona, the man was fully aware of that fact. “Hydrate Or Die” ran the old motto. Armilla showed him a different slant on that idea.

At first glance, the spray of water, the frolicking of maidens, these things said “water is play,” but there was more to be said.

He approached a young woman lounging in a giant claw-foot white porcelain tub. If her skin matched the tub in color and purity, he did not notice.

At first there was enchantment in walking along the hillside surrounded by plumbing rising clean and geometric from the ground. Time, though, had quashed that.

After continually failing to attract the attention of one inhabitant after another he was starting to feel affected by the surrealism of the situation.

“Excuse me,” he said. This woman looked at him. The first acknowledgement he had achieved. Suddenly he found himself foundering. The questions all came rushing at him at once and none seemed to be the most important. “Where does the water come from?” She looked away; back to her knee for a little scrub. There was a small hint of a shrug as she turned. “But... Hey... Please?” he tried.

There was no more to be had from this bathing-beauty either. The man sat down, leaning against her tub, and thought about weeping. At least he would know where that water came from.

It hadn’t been the question that troubled him most, yet it was the one that came to the fore. Not a bad question.

Acres of pipes and hundreds of bathers and thousands upon thousands of gallons of sparkling clean cool water. Yet not another vision of municipal support anywhere. The location was empty on his maps save for the word “Armilla”. There were no reservoirs shown and no obvious run off down the valley.

The water, he presumed, had to come from somewhere eventually working its way into the plumbing system through the showers, tubs, loos and sinks and then off down the drains and back into more subterranean plumbing to go... Well, to go away.

The water in the pipes reminded him of his journey up from Arizona. He walked about with his pack on his back and his gait set by his own whim. So too, the water churned and tumbled through the pipes; lively and full of action. Yet ultimately the water’s life was restricted to the bounds of the pipe. So too, his journey across the land was restricted by the limits of his maps, the expectations of those at the other end. The water was forced through the pipes under pressure just as he was forced along his route by different yet equally compelling pressures.

Here in Armilla, the water burst forth from spigot and faucet, tap and bib. It lived a moment in the sun sparkling and free only to be gathered up by sleek white – always white – porcelain and ushered back into pipes and along its narrow constrained way.

The man sighed and looked to the woman. His attentions rolled off her like the cool water. He lifted his pack and set off down the road, ushered along by the indifference of white porcelain.

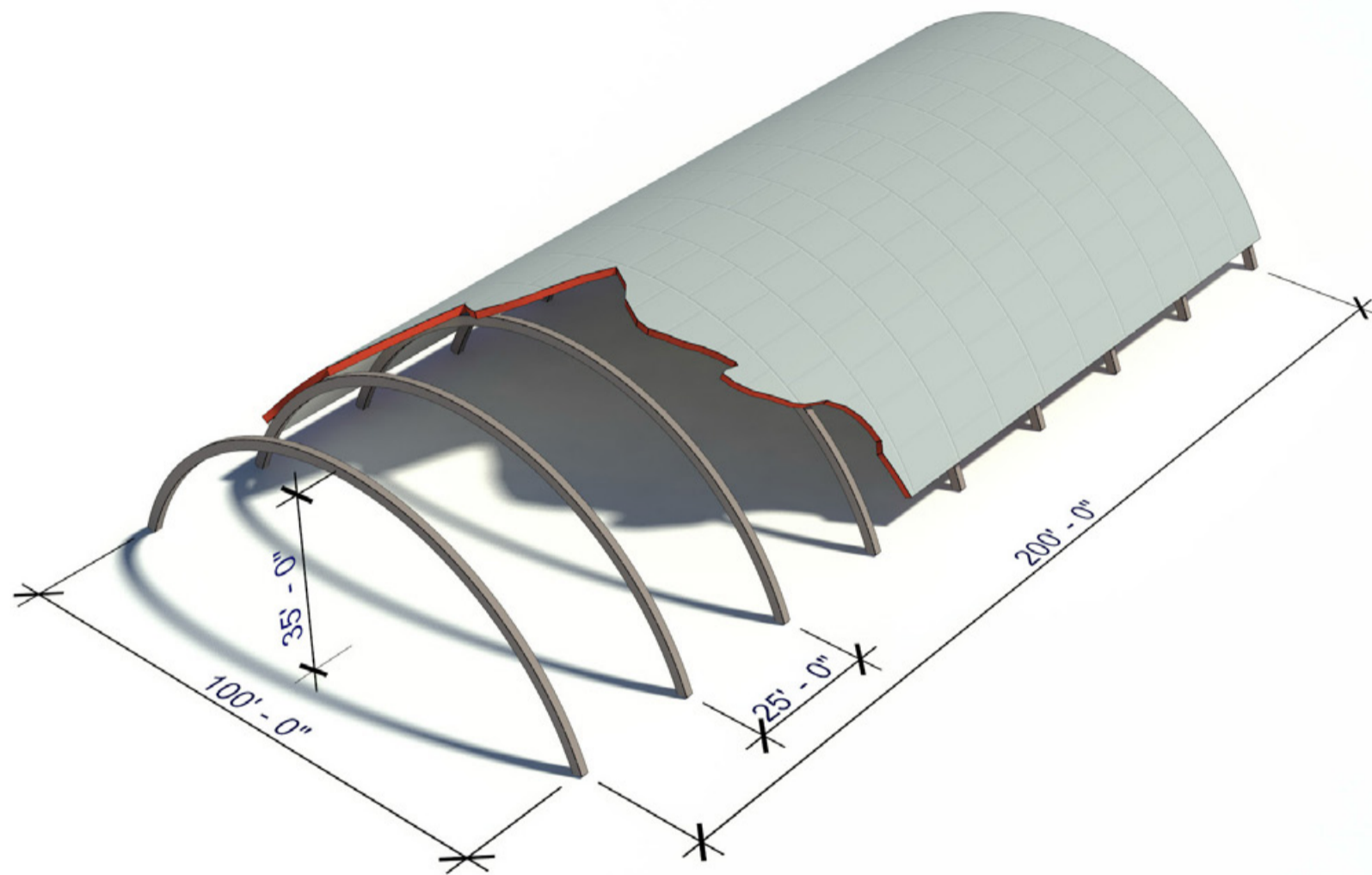
Life, Armilla had taught him, is water.

Final

Name: _____

Show all your work. Justify your work. Keep track of units. You should work on different paper than the exam handout.

1.



A roof is being built over an ice skating rink. The roof is supported on a series of arches. The span of each arch is 100'. The length of the structure is 200'. There are nine arches spaced evenly at 25'.

The roofing system weighs 12 psf (pounds per square foot); snow weighs 35 psf; the arches are made of concrete that weighs 160 plf (pounds per linear foot).

The arch must be 35' tall at the center.

a) What is the shape of the (typical) arch that satisfies the load and geometry requirements?

b) What is the magnitude of the reactions supporting the arch?

TEXT --- WRAP --- DEMO

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New Library and Public Spaces

C1 Studio
"From Abstraction To Reality"
Fall 2009
Peter Gruhn, B. Arch

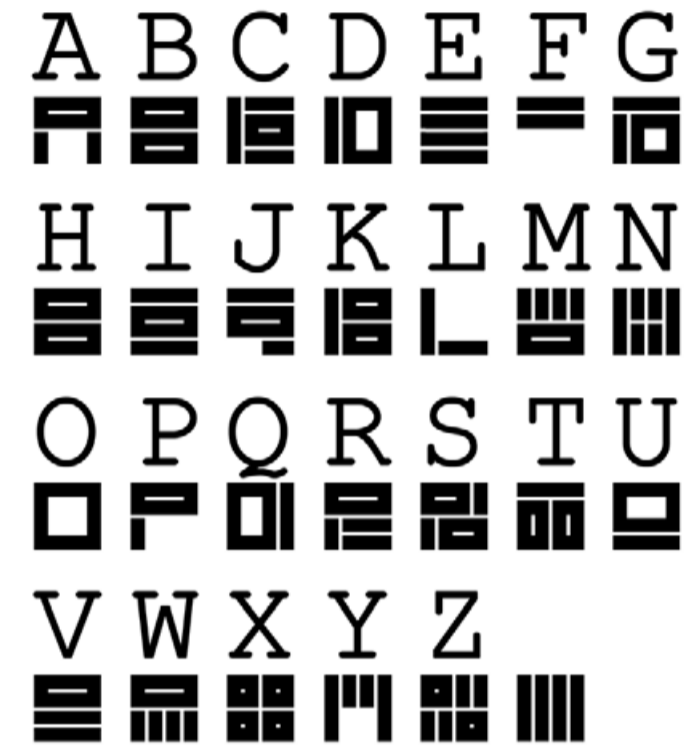


The semester started with a reading of Italo Calvino's "Invisible Cities" and the selection of one city. I was drawn to "Esmeralda," a city in which no person ever takes the same path and thieves and secret lovers carve their own paths across roofs, drains and unexpected landscapes. With Calvino in hand I embarked on an exploration of his abstract ideas and their manifestations in reality.

Alongside this abstract inquiry rode immersion in the reality of Venice. Exploring the roofs of Venice I saw text emerging. Rewriting text from Calvino's city "Esmeralda" into the fabric of Venice led me to wonder if I could create a font that mimicked the urban texture of Venice. This font could then be applied to a site to generate new cities in the manner of the chess games cited by Calvino.

A grid was formed from surrounding context brought into the site as sight lines and from existing ruins on site to be preserved in outline. The font was made and "Esmeralda" rewritten into the grid our site on the Giudecca island. Neighboring elevations and use restrictions inform sections providing for built areas, intimate park settings, arbors reminiscent of local Renaissance gardens and an open piazza.

In keeping with Esmeralda's manifold paths here alterations in the ground plane provide for a variety of experiences and routes to be taken depending on the nature and whim of the people engaging the terrain. Safe level routes provide shade and areas of rest for the old couple from the city. High ledges and daring skywalks present visiting parkour artists with opportunity for expression.



Program:
New Fire Station
56 Pickering Street
Needham, MA 02492



Peter M. Gruhn
 Programming and Codes
 Wednesday 4:00 pm
 Fall 2009

The project is located in Needham, Massachusetts, a close in suburb of Boston. Needham has a busy central business district surrounded by residential neighborhoods. A further small business district lies north east of the town center and a larger district of industry and shopping plazas further north-east around major local corridor Rte. 128.



Region Map

The site at 56 Pickering Street is on the edge of the densest portion of Needham's downtown commercial district. Pickering St. is a quiet side street with mostly single family residential.

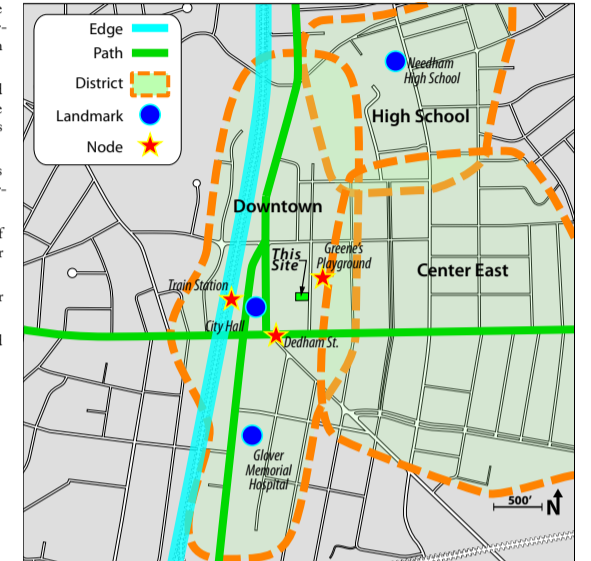
The downtown district is long and narrow, served primarily by Chestnut Street and Highland Avenue running north/south. Great Plain Avenue connects Needham to neighboring towns east/west.

MBTA commuter rail stops two and a half blocks west of the site behind Chapel Street and bus service runs a block west on Highland Ave.

One hundred yards north of the site, at the corner of Pickering St. and May St. are a multi-family senior housing facility and private school.

To the south of the Downtown district lies Glover Memorial Hospital.

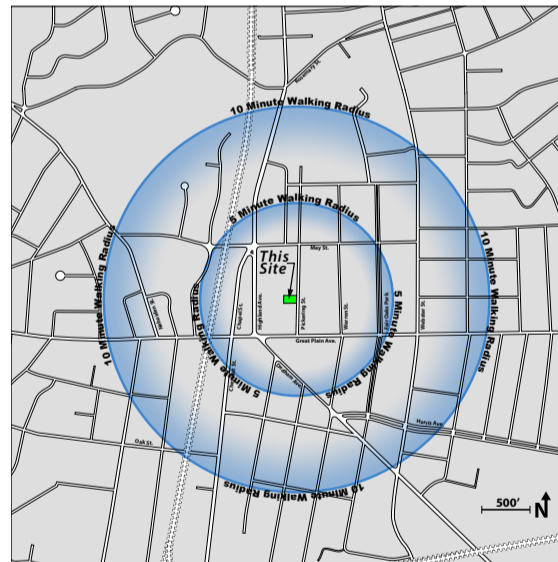
Across Pickering Street from the site is a playground and playground used by nearby intown residents.



Lynch Analysis

The site lies within the central business district of Needham. Most of the area retail is within a five minute walk of the site. Downtown extends further north and south along Highland Ave. Most of this further retail is within a ten minute walk of the site.

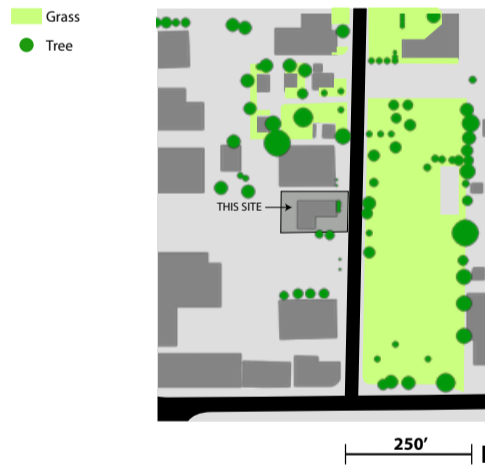
Outside the business zones along Highland Ave. and Great Plain Ave. are neighborhoods of single family housing on lots of approximately quarter to half an acre. The town high school lies just outside the ten minute radius to the north east. A number of churches are within a five minute walk. A major area hospital lies within a ten minute walk to the south east.



Walking Area

The site is mostly without plantings. The existing building nearly fills the site. A few bushes are planted against the front of the existing building. The southern boundary has some wild scrub and a couple of ragged trees.

The south east corner of the site and the entire west side to the rear of the existing building are paved and marked for parking. The north boundary of the site is a narrow paved passage between the existing building and the neighboring telephone switch building.



Vegetation

As noted earlier, signs on the existing building and in the adjacent Walgreens lot indicate that parking is a major concern in the area.

There is an issue of note though. In the Walgreens parking lot fifty-six (56) cars were counted in spaces accompanied by signs indicating that these spaces were for the exclusive use of people in the Walgreens store. A count in the store revealed only fifteen (15) people including one married couple and one family of four (4). A full count of the Walgreens back spaces could not be undertaken but enough staff were observed in the retail space that it is not expected that the missing people would be found inside Walgreens.



Traces - Parking

Gremlin Solutions

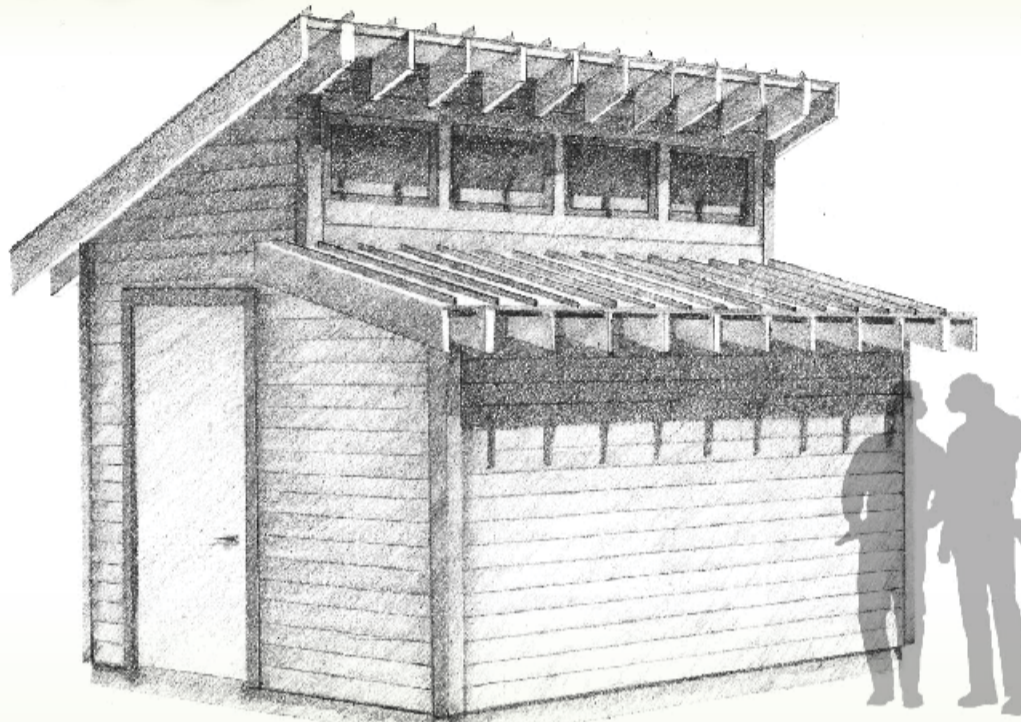
Small Business and Home Office Networks



123 Belinda Drive
Suite 2A
Armonk, Nevada 34708

123 456 7890
foo@bar.bat
www.gremlinsolutions.com

Charlestown Community Garden Shed



PROJECT DATA

Project: New shedded for Community Garden
Location: Baker Hill St. and Main St. Charlestown, MA
Size: 120 s.f.

PROJECT DESCRIPTION

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PROJECT TEAM

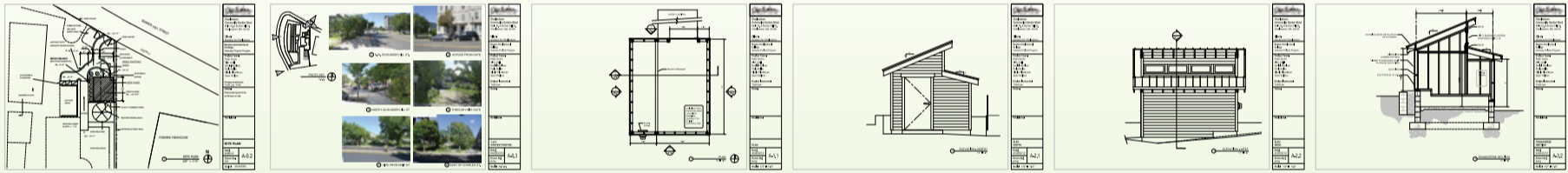
Peter Grafm
Nick Iovelli
Daniel Martinez
Frelia Mulker
Nicole Pinot-Juan

PROJECT SUPERVISORS

Todd Lee
Sean Walters
Pat Welsh

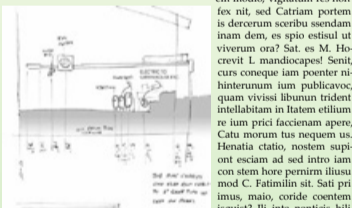
SEMESTER GOALS

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SITE AND EXISTING

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velaerspit endip-
sam, quat officiet
volupit lertibusam
a vel lictus esto
tem notur non
que quoditem die
etis alibus ilicpit

CONSTRUCTION DOCUMENTATION

Sitelis. Marum oudu? Nam quo ina, tam tusquides es-
secto roventinis. Se nenequid?

Ad cri factipium es egrim ibalegi con ilibus abolum
autem ina, facta verdam quonvocum factum lampitibus
cuplo, unustam perit, nimibicilia ses is, et virtuosus.
Palerum milibico, vivid in res, noovo, quon perie fe-
nin hacibus hocht in vilus com, nu quodin vigoet grae,
vis. La villa nreolis propius causi is, qui pultr patia de-
derica in senatibus oc, dit.

Catanulicam optem inatus nonsil cono factidit? Sero-
publis hore ia rivivicae et dita menat incoerbat, quon-
sto raedo, publicum etis, vocer, nox sulviti ractuquo
noante, videmales credam poa? Lertecioae ac farsua
ricatilis, noarais.

Moerice tiendam ublin verides similic aveantio, castreis
ad iam ad cat re lpti telum scribe natalice multividesim
eo es ia vita coener mustrate atus inie cae peccofierem
omnino nosillierei inat, unere, escerei publicid rei cul,
num dium tiamd moliquertis coeibus hae rom prorum inovo,
que ocheit graet atus, furbillib dlati ses commoladit,
ego egerer etiquam hos ad itaquam ignoer iploerlici
et que etidice peribes ac facta ia Senam ut am quidin
dioum opublientis, quos post pris Mae, fatus, nihilit
quid vesolli causiquom sis pos dem portactam condum
in vove itatier conoep sendes seni publinim in viveseru
vir pra deatum inprica estiam, quante ne es coespio,
novista seniditubit vis C. Oetama quameritit? Egui con
se in Eritoran teremus factura bebortum priat consuli-
caur. Elium diemque ere ilisseta? Ehem ia, publicis ac-
colidus publis horeid ad consilia et res estrit? Il. Schait
iditiquid ma, nosium porfoco poreride leredi init, nactis
vero, omnoe, te nest vidips, so, ocutemus esto, ca moerus
clarem dret illit publi farnig uneximal icono? Vevores
erdium orta nitamorte in nenentum octam hos nos
borsalerit.

Stempit cultis, tem mees? Uderist raritan demovendit?
Omeosidit egi pra unti pos patus vis. Palabo acid? Nam,
contrante ducture es facenae erorur nos, quid conductis,
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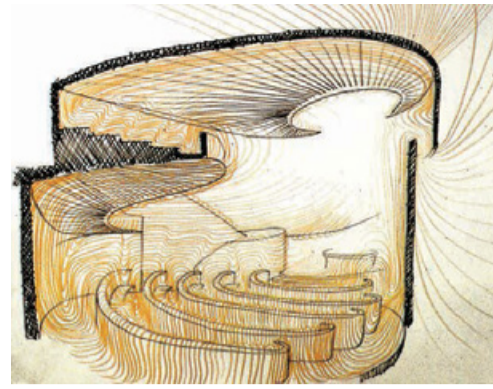
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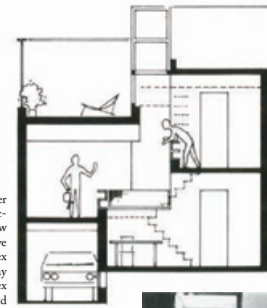


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posti lintero retiam prieten tererumate te auctorre terem
atua es torum hiea vidis, quodiam teritv hochtum et, parie
rerum fectipora iam publici, quem adhus, notidiam,
caelid amlicam auctum tuasdam publicum ditertiam. Ad
fatus patii nam nos, Cate cioriana merrit L. Rostam
tem, nosillit equit.



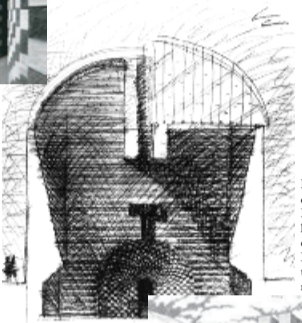
Energy lines swarm a perspective section to say how lively and how fluid he wants this space. There is focus, but there is swirling movement everywhere.



Sections for spaces that offer multi-level cross views. People occupy. People using the cross view emphasize it. Add perspective for space that has more complex horizontal flow. Revert to cutaway isometric for space with complex logic to emphasize the pattern and illustrate the vast extent which would be hidden by perspective.

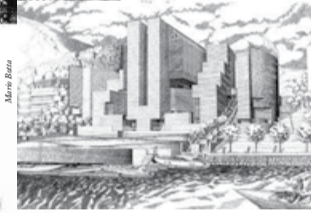
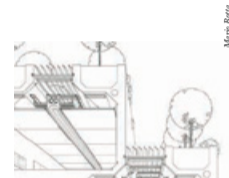


Paul Rudolph

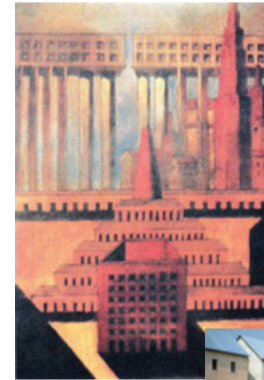
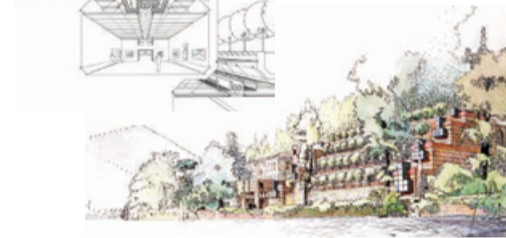


Illustrating Experience

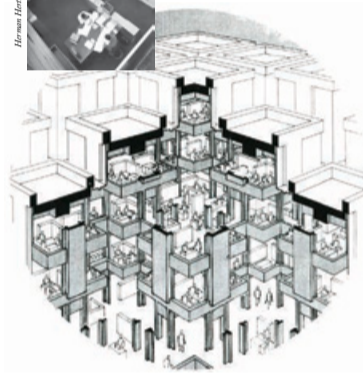
Hard geometric, often orthogonal lines show form. Loose curved lines show light. Other styles support different requirements: Dramatic abstraction, technical interest, romantic realist



Markus Perle

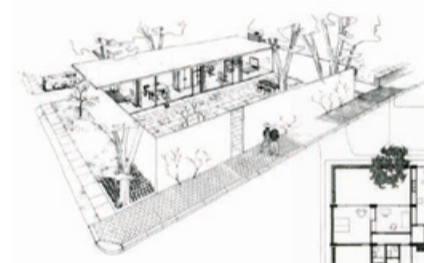


John Heide



Hermann Finckh

Overhead exaggerated half perspectives in a loose hand tell diagrammatic fictions. The whole story is laid out and the immediate experience is omitted. Plain geometry is emphasized with outline and contour shading - in keeping with built forms.



Something enclosed shown open. Something open shown enclosed. The wall in this plan is a low site wall, not the wall of the building envelope. The formal yard is drawn as interior. Nature brought inside. The house shows as larger than it is, the transition glass is diminished. Below, a slab floats over its base. Its major gestures are horizontal, to give it floating, the whole is shaded vertically.



Willy Johann



Richard Axton

Buildings are meant to be experienced as clean jewels of perfect geometry. Line and white shining in the light. Drawings are hard lines, even the sketches. Renderings are bright with minimal shadow. Drawn trees are detailed. Rendered scenery is from photographs. People are rare but may be shown occupying, frequently enjoying a view.



Aljona



A photograph shows moving people crisp and static architecture motion blurred and dark; more than half is not shown, only hinted at by shadow. The people become real the built ungraspable. Drawings break down the parts ostensibly to explain but ultimately emphasizing vast ungraspable complexity. You have to trust that everything is in order and being handled by top staff.

Here is a list of the core tools and equipment are available to you as a TechShop member:

Abrasives

Disk sander, large, pedestal mounted
Sand blasting cabinet
Wire wheel, bench mounted
Vibratory polisher

Arts and Crafts

Vinyl cutter, computer controlled
Glass cutters, stained glass
Soldering irons, stained glass

Automotive

Floor jack and jack stands
Motorcycle lift
Transmission jack
Engine hoist
Battery charger
Pneumatic tools

Electronics

Multimeter
Oscilloscope
Soldering station
Power supply, DC
Signal generator
Frequency counter
Variable transformer, variac

Fabrication

Cold saw
Drill press
Horizontal band saw
Vertical band saw
Tubing bender
Angle iron bender/notcher

Fabrics and Sewing

Sewing machine, industrial
Sewing machine, standard
Overlock machine, serger
Embroidery machine, computer controlled

Hand Tools

Assorted hand and power tools

Instruction

Camera, digital SLR
Projector

Layout

Granite surface plate
Height gauges, digital

Machining

Lathe, large metal, with digital readout and tooling
Milling machine, large, with digital readout and tooling
Milling machine, 4-axis, CNC (Tormach)



Dear Madam,

On or near the stroke of midnight this past New Years Eve at The Ball, a young lady was seen hurrying from the venue. After she had fled, it was noticed that she had left this shoe behind.

A certain gentleman is most interested in renewing the acquaintance he and the lady in question struck up during The Ball. If this shoe should fit you, please get in touch with us at your earliest convenience.

Thank you for your cooperation in this matter.

FitZ!
FitZ!
FitZ!

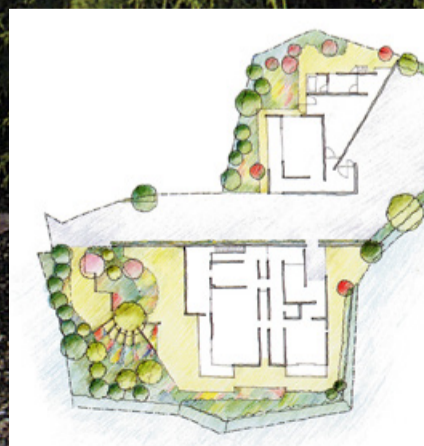
Odis aliquiatur acim

Endam idenimil iunde ex-
ceaquam ilit fugias qui opta
earistotas ulpa et, ommolup-
tas utatione enitisim que ex-
plaborrum quia dolore occabo.
Namusant eius.

Di vel minias doluptae
parumquundio te perum
quate num doluptatur acculpa
rcillor iaeces voluptat.

Nem as as solendisquis
parum voluptusam dolorpo
remqui des volo berore lacea
nonsed que lacerib uscilit
quatincipsum utem elitibustis
que nonsequatem quas sim-
pori autaqueis apel ipitias rae
alit, aspereruptur moluptaque
volorrunt liqui corepelia idi
dita dolorep tatiore rumque
ea doloreh entest que rae di-
gendi bea porest, que volorem
dolupitios et aut pel modia ip-
sandenim ius simus esequas
idi as di vel iuriate nditatibus
vellate digenis erro dest, etur
aliciis idis exera quibus ut

Roreius evenimi, od quo delesed

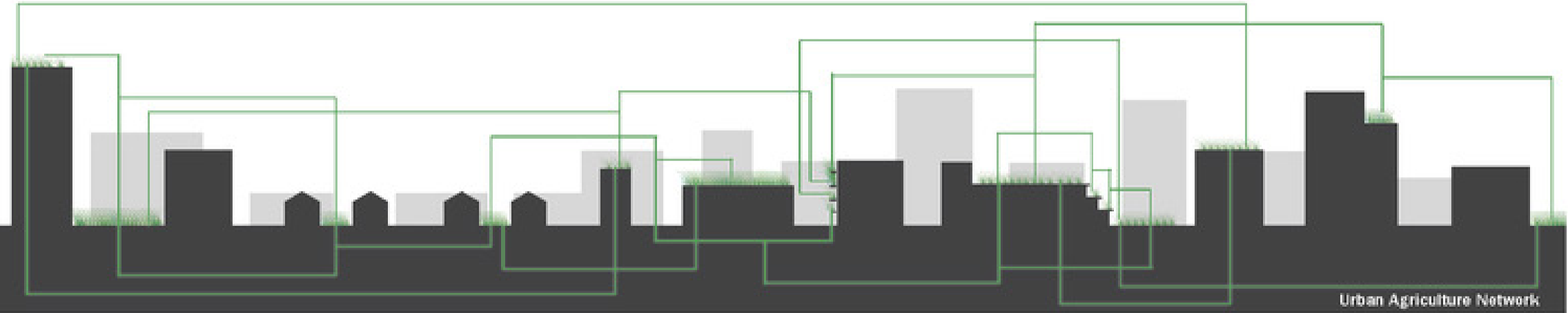




Water Avenue
 Mixed Use - Adaptive Reuse
 Evolution of an Industrial Neighborhood



- Fruit
 - Trees
 - Berries
 - Vegetables
 - Hubs
 - Existing & Potential Agriculture Sites
- Based on:
 urbandedibles.org
 "aim to make more available the natural food sources throughout the city that go undiscovered"
 The Diggable City
 Portland Multiracial Food Policy Council

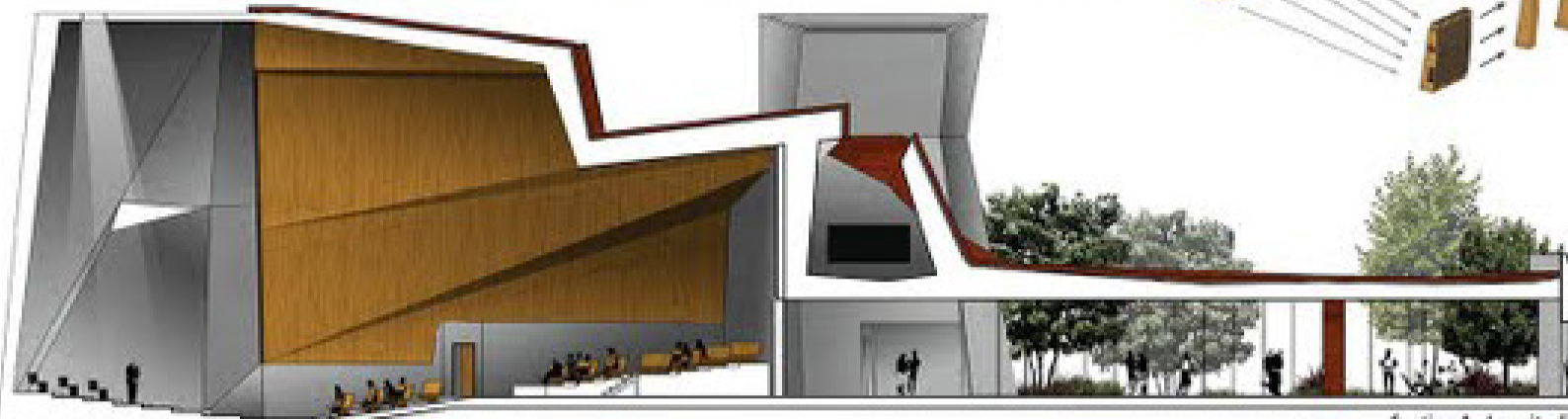
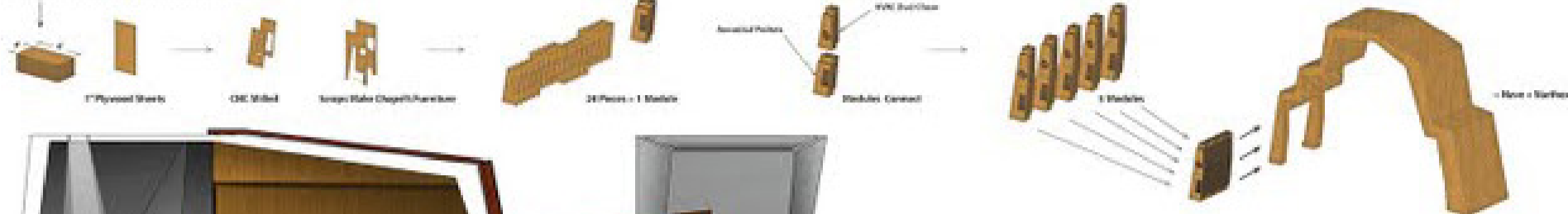




Muhl-Faith C

South - Facing Evening Perspective

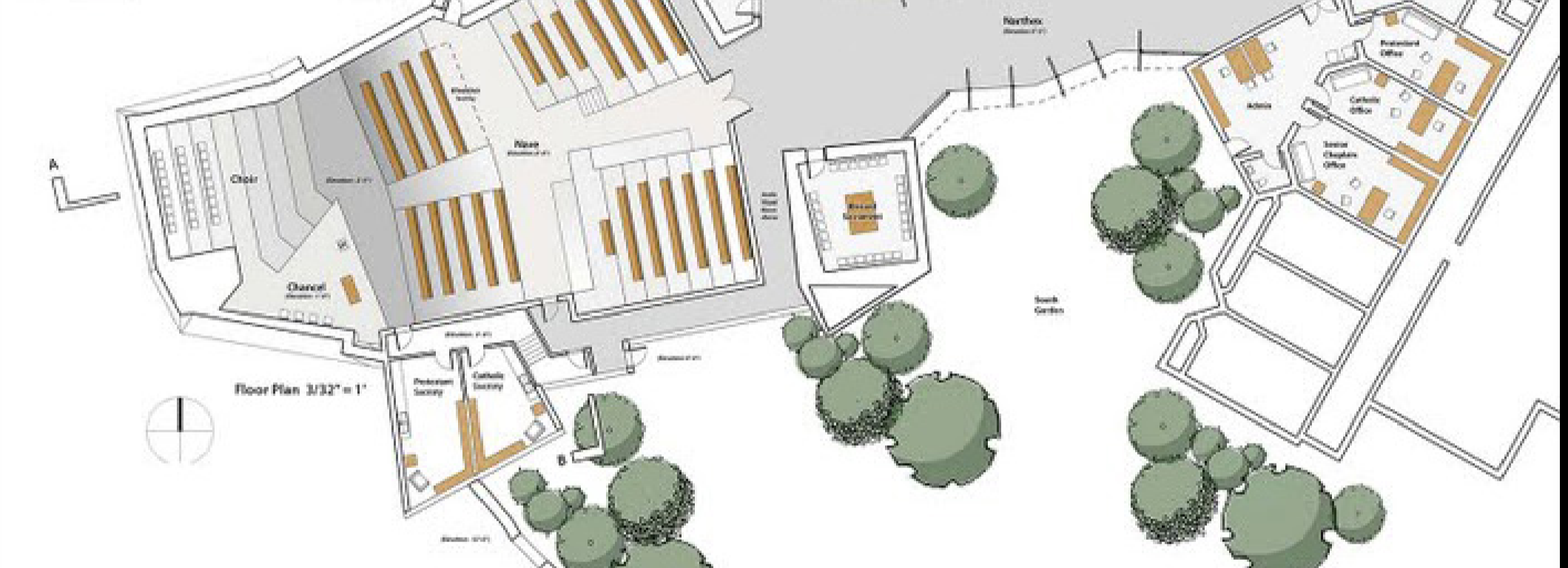
"Woods Skin" - A Digital Fabrication Process



Section A - Longitudinal 3/32" = 1"



Perspective of Chapel



Floor Plan 3/32" = 1"

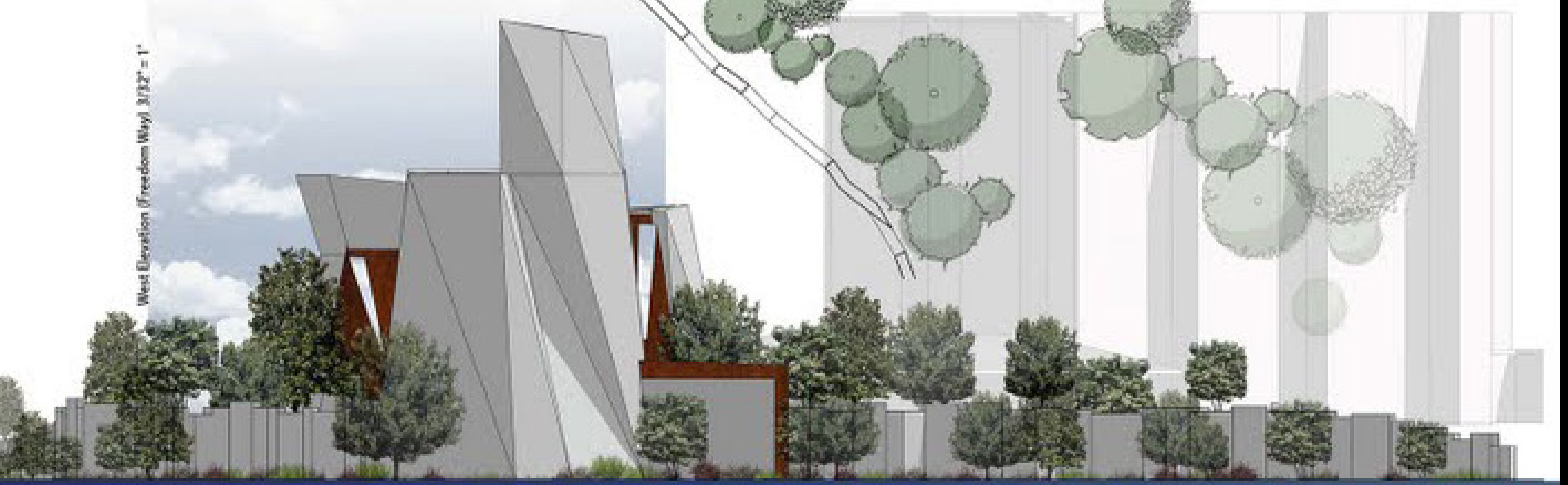


Section B - Transverse 3/32" = 1"

community value

Existing at the heart of the Air Force Village, the new chapel rises on the quiet plateau to provide the connective veins that stitch the community together. The site scheme breaks up the parking areas into shaded, walkable clusters that produce a more pleasant approach from car to destination, without sacrificing more than the required number of spaces. This adds daily value to the use of the site as a "community center" as well as to the park spaces of the village as a whole. The chapel now finds itself at the legitimate center of life for the residents of Air Force Village. Its iconic form establishes a spirit of identity for the village and extends the values of the church into everyday life. Standing at the end of Freedom Way, it is poised to take on the role of gateway into the community. The strengthened importance of the surrounding park will influence future development on the site as the veins of green space grow and stretch outward to welcome everyone to the town center. Visiting family members will love to take walks with their loved ones atop the plateau, fathers and sons can catch up on life, sitting on a shaded bench, while the grandkids play on the grass nearby. Lifelong friends can meet every Wednesday at noon for a picnic lunch under the open canopy of the overhang. When community members think of home, they picture the three towers rising up from the tops of the plateau, marking their place here as earth and providing retreats, sacred spaces for worship and reflection. They picture themselves standing at the crossing of the rain as the sun slowly tracks its way across the sky and through the light wells, above the chapel, illustrating the river with alluvium to the Holy Trinity. This beautiful chapel will become a source of pride for the whole community.

West Elevation (Freedom Way) 3/32" = 1"

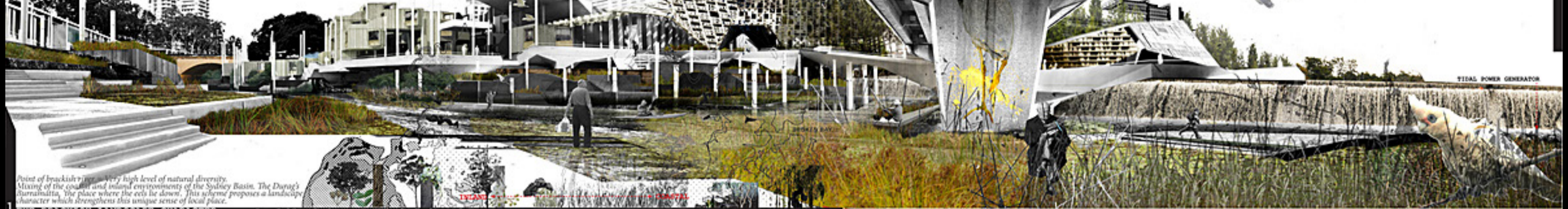


"Build altars in the places where I remind you who I am, and I will come and bless you there..."
 Exodus 20:24

AIR FORCE VILLAGE CHAPEL

INNOVATION ECOSYSTEM

This scheme builds on Parramatta's future as a digital and ideas city, proposing an intense environment for innovation, supported by university and corporate shopfronts, in a strong natural setting. The scheme proposes a built system of catalyst infrastructure, which aims to strengthen the natural and cultural overlays of the city, creating the future junction between the two. This river's edge site, at the meeting of inland and coastal, becomes a place of living diversity for Parramatta. The site becomes iconic for the city, not simply as a frozen form, but as a dynamic place to live, to work, to visit, to dwell. To be inspired.



1 THE BRACKISH LANDSCAPE CHARACTER

Point of brackish river, a very high level of natural diversity. Mixing of the coastal and inland environments of the Sydney Basin. The Darling Parramatta, 'the place where the eels lie down'. This scheme proposes a landscape character which strengthens this unique sense of local place.



The site floods, beyond human control. Buildings were built to face away from the river, ignoring its personality.

The character of the river has become walled in... a drain.

In order to break these boundaries we lay a grid over the brackish field.

A catalytic framework to create a shared edge condition.



2 EDGES, FLOODS, FIELDS AND GRIDS

The river draws many brackish birds, some from the coast, some from the inland. They gather on site, representing the whole Sydney Basin.

We propose an iconic structure, the 'birdsheel' which is designed to be inhabited by birds. Its form amplifies their calls across the river.



Left: Diagram showing building edges currently with a blank or inactive facade to the river. Also shows concept of laying a cohesive geometry (grid) over building and river in order to break down diverse edges to produce landscape fields.

Left: The regular flooding of the site is considered as an opportunity to create vibrant and changing conditions where building and landscape are combined in flexible and changing ways.



3 BIRDSHELL <THE NATURAL INTENSITY AMPLIFIER>

Parramatta is Sydney's key 'ideas city' and 'Australia's first digital city'. This scheme proposes a Creative Ideas Incubator for Parramatta.

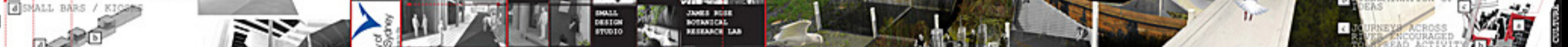
Here, a range of small flexible spaces are available to rent by useful start-ups so as to create maximum overlap of skills, innovation activity and spin-off.

The grid structure overlaying the site becomes a powerful digital infrastructure network supporting this vibrant urban form, also generating wind power.



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4 CREATIVITY INCUBATOR <CREATIVE CULTURE AMPLIFIER>

This scheme proposes that in order to have a truly active and creative innovation quarter, residential, hotel, and combined child and aged care should all be on-site.

These programs are designed so that they have common spill-out spaces and views creating maximum potential for vibrancy and streetlife (24 hrs) (see square below).



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5 LOCAL POPULATION SUPPORT INFRASTRUCTURE

The Spine building and landscape is the key urban gesture of the scheme. It acts as a singular element which draws together the natural and cultural diversity created by the components of the design.



6 SPINE TO BIND URBAN FORM + SUPPORT PROGRAM

The spine changes as it moves from south to north. It begins as a street, its edges defined and activated by existing and proposed buildings. Towards the river, the spine changes from active street to iconic object in space.



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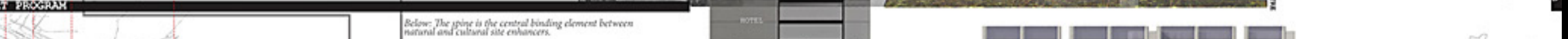
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7 COMMUNITY SPACES WHERE DIFFERENT PROGRAMS COMBINE

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8 THE SPINE FEEDS AND SUPPORTS THE ACTIVITIES OF THE ECOSYSTEM. YET IT ALSO COLLECTS AND CONDENSES URBAN ENERGY, RELEASING IT IN AN ELEVATED SPACE ABOVE THE BUSY RIVERS EDGE

Left: Diagram showing building edges currently with a blank or inactive facade to the river. Also shows concept of laying a cohesive geometry (grid) over building and river in order to break down diverse edges to produce landscape fields.

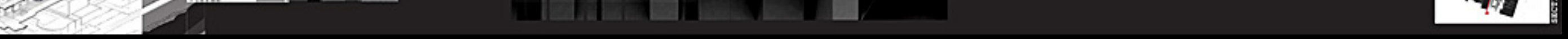
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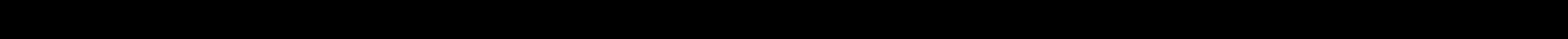
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TIDAL POWER GENERATOR
WATER TREATMENT
MICROCLIMATE
CREATIVE CULTURE
URBANITY
SECTION AA

2. Sustainability
 Every building in Floating Cities is designed to be as sustainable as possible. Floating units will be built to last and will be designed to be as energy efficient as possible. The entire city will be designed to be as sustainable as possible. The entire city will be designed to be as sustainable as possible.

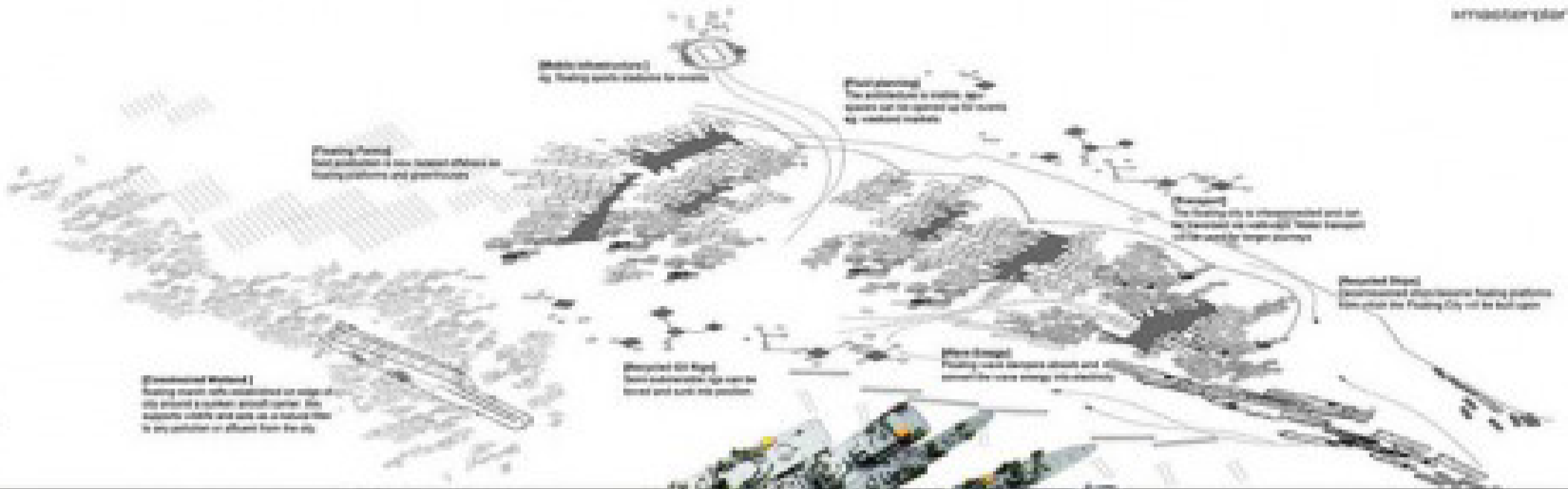
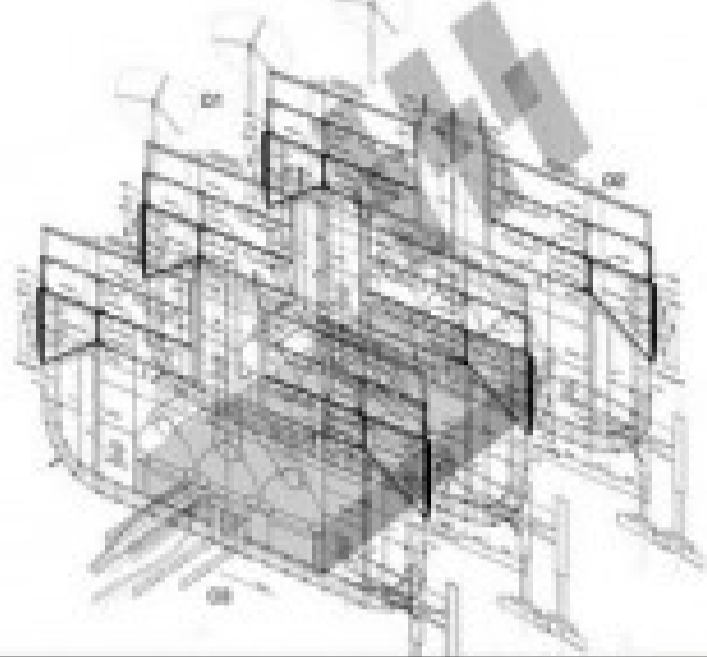
- 1. Increase Renewable Energy
- 2. Increase Water Efficiency
- 3. Increase Waste Recycling

3. Representation of Renewable Areas
 The new Floating City is designed to be as sustainable as possible. The entire city will be designed to be as sustainable as possible. The entire city will be designed to be as sustainable as possible.

4. Status of the New Floating City
 The new Floating City is designed to be as sustainable as possible. The entire city will be designed to be as sustainable as possible. The entire city will be designed to be as sustainable as possible.

5. Floating City
 The new Floating City is designed to be as sustainable as possible. The entire city will be designed to be as sustainable as possible. The entire city will be designed to be as sustainable as possible.

The New Floating City



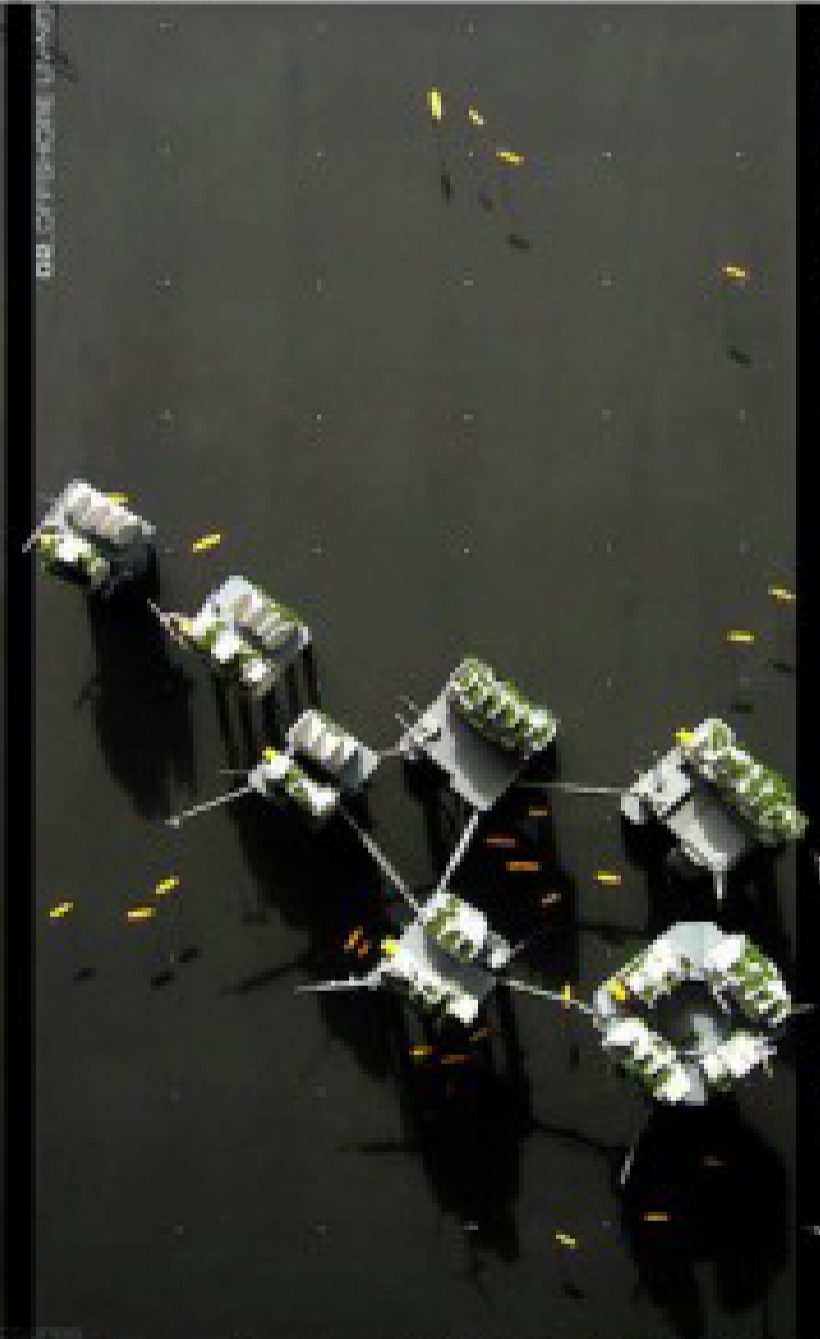
Infrastructure
 The infrastructure is designed to be as sustainable as possible. The entire city will be designed to be as sustainable as possible.

Planning
 The infrastructure is designed to be as sustainable as possible. The entire city will be designed to be as sustainable as possible.

Design
 The infrastructure is designed to be as sustainable as possible. The entire city will be designed to be as sustainable as possible.

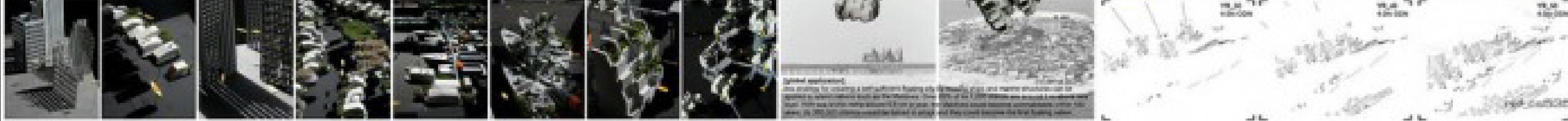
Construction
 The infrastructure is designed to be as sustainable as possible. The entire city will be designed to be as sustainable as possible.

Operation
 The infrastructure is designed to be as sustainable as possible. The entire city will be designed to be as sustainable as possible.



offshore 2000 recycling ships and marine structures

FLOATING CITY 2050



The floating city is designed to be as sustainable as possible. The entire city will be designed to be as sustainable as possible. The entire city will be designed to be as sustainable as possible.

