RANEION REDISCOVERED

Prytaneion Rediscovered:

The Contiguity of Cultural Fragments in St Paul, Minnesota

A design thesis submitted to the Department of Architecture and Landscape Architecture of North Dakota State University

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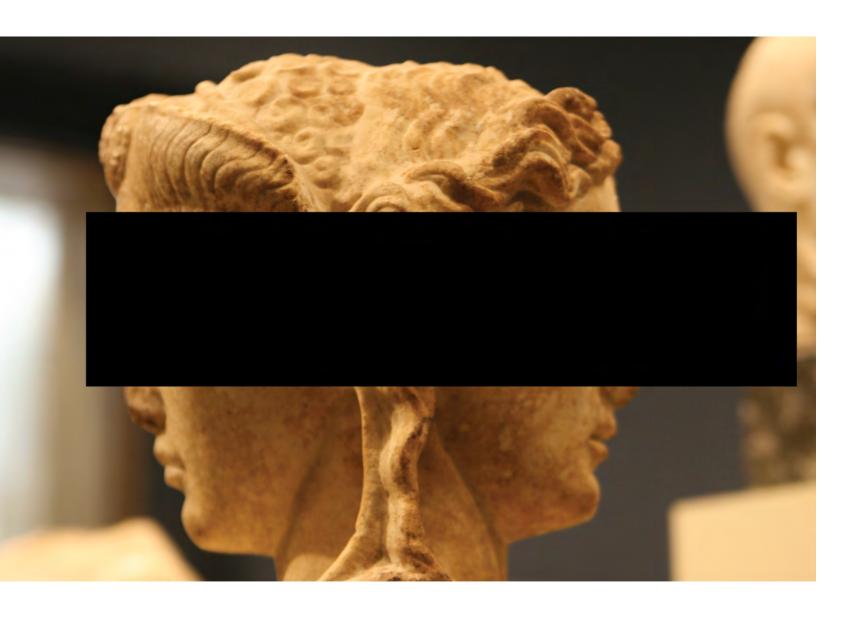


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Prytaneion Rediscovered

This thesis intends to set a new path for civic architecture through the public library. The public library is a critical building in communities because it is one of the last remaining services dedicated to the pursuit of knowledge and expression. By reexamining the role architecture plays in how we view and create works of art and research, communities can benefit from stronger, more evocative civic buildings. We can discover the way forward to a future of stronger, more intelligent communities through the analysis, reassessment, and reapplication of architectural precedents from throughout history.

Abstract



Prytaneion Rediscovered

Our capacity for communication is the reflection of ourselves. Our architecture, according to Alberto Perez-Gomez, has been a facilitator for that communication for as long as we have been together to communicate. His writings are merely the beginning of that discussion in the context of this project, which seeks to reunite communities to the roots of civic architecture in order to help them recall the power of dialogue. Communities will benefit from a reminder of their place in relation to the ideas before them; they are the ones who come together to create works of art, from literature to sculpture, to discuss the most personal and the most civic ideas.

Justification

The public library is perhaps the most prominent building afforded to communities today for the purpose of scholarship and expression. The resources now provided in public libraries across the country far exceed the scope of literature. As our communities continue to grow, and even establish themselves in new places, these resources become even more important. This project will provide a model for this growth by looking out from literature to other arts in order to create spaces that continue to promote rich, diverse communication from and for every community member willing to engage.

Typology

Public Library outfitted with artistic Librarians and research utilities in addition to the literary collections and standard lounge The organizers, technicians, and curators and study spaces.

Project Emphasis

Event spaces

Event spaces in a new public library include a black box theater, conference and presentation rooms, and gallery The head librarian is the overall curator. spaces connecting work spaces and collections.

Work spaces

These spaces include areas with just the essentials (tables, chairs, lights), areas Hired instructors provide community with more extensive services (art studios, throughout), computer and multimedia labs, and maker stations equipped with digital manufacturing tools.

Collections

international artifacts and works of art. An emphasis is placed on regional and national art to strengthen communal and shared experiences within the library.

User Description

of the library. The project multiple librarians for each major function, providing guidance to users. The librarians gauge the community's opinion on curation and give them a voice when the head librarian creates the program for the library.

Head Librarian

This librarian has final say over exhibits, performances, and technical direction, and provides the vision for the library.

Instructors

members with education and direction cleaning stations, durable work surfaces in a variety of subjects, teaching visitors how to use the many services provided in the building as well as classes in practice and theory of art and research.

Visitors

Collections include robust literary stacks Members of the community who visit the in addition to regional, national, and library. Visitors are the artists, buyers, readers, and performers.

Project Goals

Narrative

This project is ultimately one that seeks to unite a community through the experience of seeing and creating works of art, research, and other expression as part of a discussion with fellow citizens.

As this project is heavily communityoriented, the second major goal is to design a durable, flexible building that exceeds expectations in those categories. To design a building to last for centuries beyond the designer's lifespan would be to design an artifact of that community in much the same way that citizens are invited to create artifacts within the building.

The third major goal of this project is to connect the architecture to the circulation of the city. The sites adjacency to the river and to the dense downtown area provides an opportunity for the idea of civic architecture to expand beyond its direct function into something that is as public as possible.

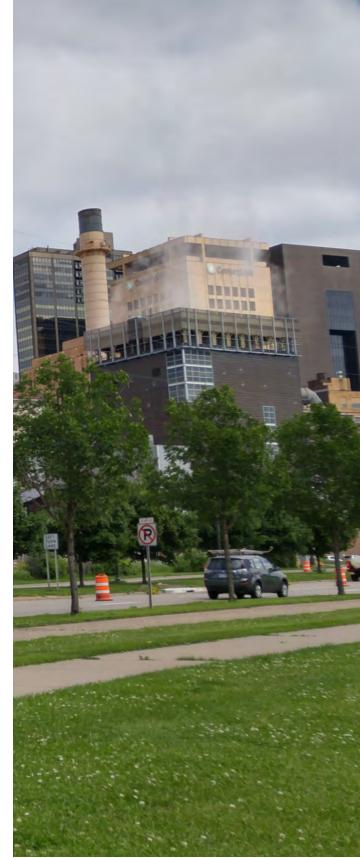


Figure 1

Design Methodology

particularly pertinent to the scope and research.

Design

Design research is most directly applicable to the work required of this thesis. The nature of the design studio offers a natural means for design as capacity (as has been utilized in a majority work. of past projects) in order to address the specific research questions the thesis Perhaps the most important step for outlines.

Evaluative

Evaluative research will be an important methodology in the next semester as this thesis is meant to be a critique of the public library typology. History is full the experiences this project seeks to necessary. appropriate into the typology. A thorough comparison between those examples and modern standards will introduce new directions for the public library.

Interpretive

This project can utilize research in many Interpretive research lends itself well to forms. Three have been identified as the ideas of the public library that this project seeks to convey. The ability to direction of this project: design research, produce new knowledge by referring to evaluative research, and interpretive and interpreting significant objects and works from the past will help to produce both a critique of the current state of civic architecture as well as probe the inspirations behind it and guide it going forward.

Documentation

an investigative strategy, but in order The coming semester will require a to produce significant work I will have process of documenting the work to transition into a disciplined means produced that is both rigorous and for design outside of a problem-solving representative of the complexity of that

documentation will be to incorporate many media into the work, digital and physical, as well as in the documentation. This includes a physical archive, scans, photographs, and videos of produced work. Work will be collected on a weekly basis, with the digital productions backed up at that time. Once every two weeks, the of examples of architecture that evokes work will be reviewed and reorganized as

> The digital archival processes also allow for a public display of this work. Weekly blog posts will be made to display work as it happens.

Project Schedule

Narrative

The semester is split into three parts: Program, Form, and Representation. The building's program is the first major element because of the nature of the library and of civic architecture. In this case, the program of the building is the draw because of how it intertwines disparate functions that would otherwise require their own buildings. Once this is established, the form can be designed. The form is still an important aspect, as an attractive building is a point of pride for the city, however, the actual function of the building is still the most important aspect of this project. Finally, the semester ends with Representation and presentations. At this point, the program and form will have been established, and the success of the project will rest on the success of the representation. It will be important to go beyond visualization by incorporating artefacts, audio-visual devices, and other tools.



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(Re)integrating the Arts:

Evolving the Library Typology in the 21st Century 16

The library is currently at a point of significant change. The proliferation of digital technologies has created an effective and inexpensive means of cataloging literature, which is working its way to public libraries. Going forward into the 21st century, the public must look at the library as more than a housing for books and instead see it as a place for creativity in many forms. A typical definition of creativity is the generation of ideas that are both novel and useful. To adopt the creativity model, libraries must embrace three underlying ideas. The first is that media create messages unique to each medium, so uniting media in one building will provide the most creative opportunity for community members. Conversely, separating activities and enforcing strict labels of spaces (e.g. art galleries, reading rooms) limits the usefulness of the space by defining what cannot be done there. Finally, art is critical in the development of individuals as well as groups of people, and should be supported publicly for the benefit of communities. Integrating all arts, including literature, into the library typology will foster communities with far better ability to create and communicate ideas than current communities.

The project is a library in downtown St in the library is a space dedicated to chil-Paul, Minnesota that utilizes the selected research as a model for transforming the in the area. basic definition of a library to best suit the needs of the community it is serving. This definition has similarities to STEAM libraries (Science, Technology, Engineering, Art, and Mathematics), as both include much more than literature (Coffey, 2016). The model will augment a basic libraries function, providing both physical stacks and infrastructure for digital catalogs and databases. This infrastructure will connect to the digital tools provided for creating other works; these computers will feature the Adobe Creative Suite, 3D modeling software, and other tools useful for digital work and physical processes. The library will feature a maker space housing 3D printers, laser cutters, and power tools, as well as open studio spaces to allow patrons to work in-house on those projects. The space will also facilitate fine arts work, and fabrication work. The library will also feature a black

munity members to perform individually and in groups, providing a space for community members to perform new works or adapt old, as well as traditional cultural performances. Another major space dren, which is absent from other libraries

The downtown area of St Paul is currently seeing growth, with young families comprising much of the incoming residents. This, along with a concentration of small charter schools in downtown make the area a good candidate for this type of project. These charter schools are scattered across the downtown area, and would be one group that would see large benefits from a public space with these facilities. Downtown St Paul features a robust public transportation system, with bus routes throughout and a light rail system connecting it to the rest of the metropolitan area, including Minneapolis, the airport, and outlying suburbs. Within the immediate region is a large group of theaters and museums. Downtown St Paul is home to the Science Museum of Minnesota, the Ordway Center, and the Xcel Energy Center, among many box theater. The theater will allow com- others. A library placed in this area would

not normally have access to these resources and strengthen the cultural core In some cases, that will mean providing of St Paul. The site currently identified for the project is 50 West Kellogg Boulevard, which is less than a block East of the Science Museum of Minnesota, and on the block South of the main library at the JJ spaces use being the user will be critical Hill Center. The building is currently being renovated as a housing development. gram over many years. The ultimate goal This project will appropriate some of that of the new definition of the facility will be space, and will connect to the housing development.

Media

Media make a strong case for being the ultimate decider of the messages we make for each other. As stated above, media create messages unique to each medium. To integrate media in one building will provide the most creative opportunity for community members. In many settings, the medium sets the stage for with it (e.g. the prices of cameras and film, the static nature of a painting versus the movement of music). For the new typology of a library to function success-

bring in community members that would members of our community to work as best they can with as much as they can. tables and chairs for discussion, in other cases a theater for a presentation or performance, whether it is a new work or an adaptation of a classic. The decider of the in the development of the buildings proto foster the connection between people and art (e.g. literature, performance art, fine arts) for the development of the community.

The development of the building begins with the variety of media, and why there should in fact be a variety. One of the most notable examples of differences between media is the transition from feature films in theaters to the home. The size and aspect ratios of the screens used in homes, defined as the relation between width and height of the prewhat can be said, and what we can say sented image, has varied greatly until recent years. With home television sets featuring a 4:3 aspect ratio, and theatrical showings as wide as 2.39:1. In the documentary Letterboxing, director Curfully, we must invest in spaces that allow tis Hanson describes the technique "pan

films to the 4:3 aspect ratio for home consumption by moving a view port over the film and showing only what is within the viewport to the home audience. Hanson goes on to say that:

There are many things that go into the making of a movie. One of those things is the shape of the movie, how wide is always a reimagining of the original, and the screen, and how does that impact it is in this reimaging that a new interprethe shots that make up the movie? Ev- tation and a new message is made. ery shot in a movie is thoughtfully composed. And the composition of that The same reinvention occurs when adaptshot is approached the same way that a painter approaches the composition of a painting. And when a technician takes a completed movie and pans and scans, he's moving the camera defensively rather than artistically, and violating all the shot (Turner Classic Movies, 2009)

The process of panning and scanning is, according to Hanson and many other cinematic authorities, a reinvention of what the film director and producers going forward. meant to say with their film. When a film is brought into a new medium (theater to home television) a new film is made. Typology This is one of the most direct examples of

and scan" as the process of cropping media creating messages unique to each medium, but it is not the only example. Hanson goes on, using the Leonardo da Vinci painting The Last Supper as another example of why cropping images is a reimagining of the art by illustrating how 6 disciples are lost in the cropping process, three from each side (Turner Classic Movies, 2009). The cropping of any medium is

ing a book for film, as well as when one adapts ideas from one form to another, be it from notes to painting or sketches to sculpture. The choice of the individual community member in the creative process is what will affect the community as creativity that went into composing that a whole (Yazon, Mayer-Smith, & Redfield, 2002). Providing a space in which individuals can create, adapt, and present their ideas, and giving the public the position to interact and critique those ideas, is what defines the direction of the library

The library typology is seeing a tremen- Those researchers, defining creativity as dous shift in the early 21st century (Rain- a process of creating something novel ie, Zickuhr, Purcell, Madden, & Brenner, and useful, have found a positive link be-2012). Funding for public endeavors is at tween the embodiment of metaphor and increasing risk, and the demands of the creative problem solving. Researchers at public are shifting to different areas of New York University created a scenario in the libraries program. The evolution of which subjects would live out a physical the typology will in part be dictated by manifestation of the "think outside the those demands, and must include the box" metaphor, creating a cardboard box foresight of the public to make a truly that comfortably holds one participant, effective building for the rest of the 21st and asking them to think of as many century. That definition must have a cer- words corresponding to a set of given tain degree of openness and flexibility, as the limitations of building typology and strict definitions of spaces limit the usefulness of the space. With that degree of openness, the architecture of the 21st the box came up with more answers than century library can empower communities to develop themselves creatively.

The architecture of the new library must ...participants who completed the RAT the library without restricting the creativto remember that the experience and benefits of art are not isolated to artistic or political endeavors. Research has shown that the presence of metaphor, es-

keywords (Leung et al., 2012). Some participants were asked to perform the task inside the box, others outside. Participants who completed the test outside of the participants inside. According to their findings:

both reflect and embrace the activities of while physically outside of the box generated more correct answers (M=6.73, ity of its community members (Dwyer & SD=0.50) than both inside-the-box Davies, 2010). In this area, it is important (M=5.08, SD=0.51) and control participants (M=5.43, SD=0.35), F(1,99)=3.93, p<.05, n 2 p=.06; planned contrast, t(99)=2.52, p<.05, n 2 p=.06. Including measures of feeling and claustrophobia pecially in the embodiment of metaphor, as covariates did not alter the results, has a profound impact on idea making. F(1,47)=8.04, p<.01, η 2 p=.15, and the

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covariates were not significant, F<3.68. fer between inside-the-box and control outside the box" contributes unique explanatory variance in fostering creativity (vs. "thinking inside the box" hampering creativity) (Leung et al., 2012).

The physical manifestation in the NYU study created an environment in which study participants were able to generate a significantly larger number of ideas than those in a less metaphorically relevant environment. While the architecture of a 21st century does not need to have 2012). physical manifestations of this specific metaphor to be successful, it should be In the context of walking, freedom, as opmindful of the common metaphors of its community to create a visual grammar

The NYU paper (Leung et al., 2012) included multiple other studies with different physical manifestations. One study identified the effects of walking patters on participants, showing that freedom of movement around the study room fostered more creative generations than course. The study shows that:

Because the mean RAT scores did not dif- Planned contrasts revealed that the originality scores of participants in participants, this suggests that "thinking the free-walking condition were significantly higher than those of participants in the rectangular-walking and sitting conditions... Likewise, in the Lego task, free-walking participants listed more-original ideas (M = 7.36, SD = 2.84) than did participants in the rectangular-walking (M = 9.32, SD = 3.49) and sitting (M = 8.36, SD = 2.98) conditions... ideas generated by rectangular-walking and sitting participants did not differ in their originality (F < 1.63) (Leung et al.,

posed to the given rectangular track, was the manifestation that fostered a higher for working within the spaces it provides. amount of generations by subjects. This begins to justify programmatic demands on the library, which call for spaces that were not typically designed for in the 19th and early 20th centuries.

The shift of the library typology has been noted by those at the forefront of the library. The American Library Association, restricted movement around a strict in their State of Libraries document, they address several statistics highlighting

notable changes in public demands. "In native undertakings. 2012, there were 92.6 million attendees at the 4 million programs offered by public libraries. This represents a 10-year in- Arts crease of 54.4% in program attendance" public library programs has seen a massive increase in the past ten years. This significant, publicly funded offerings. libraries, the ALA states that "in the past three years, 62.6% of academic libraries reported repurposing space for group study, student success areas (writing/tutoring centers), quiet study space, technology learning spaces, and additional tional systems. seating" (Carmichael, 2016). Students at associated with the libraries typical functionality as a book depository. One can expect this trend to continue into their be popular among younger students as

(Carmichael, 2016). The utilization of Art is a language that all speak, and while messages may seem ambiguous, its goals are inclusive. When looked at identifies the desire of communities for as an educational tool, the incorporation of art in education allows for an indirect When discussing the state of academic approach in areas that tend to be comprised of dry information (Kraljic & Samuel, 2011). On an individual level, it helps improve critical thinking skills. Outside of the classroom, it can function as an excellent supplement to our formal educa-

post-secondary schools are expressing The role of art in the development of our desire for a variety of spaces that are not societies begins in education. Its benefits have been felt for years, but funding for creative endeavors in schools seems to be in decline. Recent studies have shown post-education lives. It is also reasonable evidence that integrating arts into eduto assume that this type of space would cation has a pronounced impact on critical thinking skills in students. A study of well. The lesson learned from these sta- 24,552 K-12 students was conducted at tistics is that libraries must be flexible the Crystal Bridges Museum of Amerito flow with the needs of communities, can Art in Arkansas showing an increase whether that involves a little more space in critical thinking performance after the for guiet work or more freedom for alter- visit than students who did not visit. The lows:

For the entire sample, students who went on a school visit to an art museum perform 9% of a standard deviation higher on the critical thinking measure (p value = 0.03). The impacts are greater for stusimilar students in the control group (p value < 0.01). The benefit of a school tour group is 18% of a standard deviation (p value < 0.01). Rural students, who we identify as those living in towns with fewer than 10,000 people, receive the biggest impact of the treatment. These rural students are 33% of a standard deviation better in their critical thinking skills than rural students who did not win the lottery to go to the Museum (p value < 0.01). (Bowen, Greene, & Kisida, 2013)

The effects of the visit to the art muse-

conclusions drawn in the study are as fol- um are noticeable when the students are then asked to perform a follow-up critical thinking exercise, the highest impact being on those students from rural areas. From this, the conclusion can be made that support for arts will improve our communities' abilities to parse ideas and to communicate. This notion has been dents who were in groups that are more evident for many in educational settings, disadvantaged and may have been less but not necessarily outside of that realm. likely to have had such an experience. The relationship between the public absent the treatment. Specifically, when and art is contentious. While interest in estimating effects for students at schools art from cultural geographers has only where a majority of the students are recently become prominent, there has FRLeligible, the impact of the treatment been tremendous interest from educais 18% of a standard deviation relative to tionalists. "Art and other cultural practices are considered to initiate learning processes which differ fundamentally from for non-White students in the treatment those generated in the context of formal schooling" (Schuermans, Loopmans, & Vandenabeele, 2012). The ways in which art supports learning are vastly different from the typical educational system methods. This allows for communities to support the education of members outside of a formal setting in ways that are more related to the individuals. A facility in which the exploration and presentation of art, supported by and for the public, will create an extra-scholastic system in which community members can learn

and grow. In the area of public pedagogy, the role of art is discussed as requiring fey, 2016). Schuermans, Loopmans, and Vandenabeele state in their paper that:

Research Paper

Public pedagogy emphasizes how educators (e.g. artists) cannot merely impose meaning or singular answers upon their educational subjects. Instead, public 'transitional spaces' where individuals are challenged to face the ambivalences that result from encounters with diversity (Schuermans et al., 2012).

The relationship between instructor, in this case the artist, and the individual cannot be as direct as most are used to in a typical educational setting. This relationship, requiring more of the individual to replace the direct input lost from the instructor, is perfect for a space in which the instructor and subject are typically never physically together.

(Re)integration

The direction of the library is in a position of tremendous influence. It will de-

fine how the public sees its relationship with media, either embracing its influpersonal reaction from individuals (Cof- ence or ignoring it. It will reflect how we see ourselves in our world, both in private working areas and public spaces. It will also describe our position on the arts by showing how much space and effort we are willing to dedicate to them. The library can adopt a tech store model, laying out a few computers and eBook readpedagogy through art is about creating ers and giving a little space for reading. It could also embrace a model that gives the community options and benefits. A model that integrates arts into a space for creativity, growth, and connection for its members. The choice will tell us if our communities are willing to shrink, or if they are ready to reintegrate arts into themselves and ready to grow.

Annotated Bibliography

Bowen, D. H., Greene, J. P., & Kisida, B. searcher, 0013189X13512675. https:// doi.org/10.3102/0013189X13512675

The study involves a large group of students from varying backgrounds, exposes them to art at the Crystal Bridgtests their critical thinking abilities after how libraries are responding to those a control group of students who did not themes and observations from libraries visit the museum, and were given the across the country; one section in parstronger critical thinking skills when ana- the areas of future library construction in lyzing a new painting than students who were not exposed to art beforehand. The utilization of library programs has flourly strengthens the argument for a public their growth.

model of art support.

(2013). Learning to Think Critically A Vi- Carmichael, J. (2016, March 28). State sual Art Experiment. Educational Re- of America's Libraries Report 2016. Retrieved from http://www.ala.org/news/ state-americas-libraries-report-2016

The American Library Association produces a "State of Libraries" document, describing recent changes in how es Museum of American Art, and then our communities are using libraries, and that exposure. The study also features communities. It also discusses common same critical thinking examination. The ticular discusses challenging material, results show that students who were ex- citing the most censored books across posed to art, in this case in the form of the country. The document details spethe tours through the museum, showed cific demands on libraries, particularly in relation to public demands, and how the study has significant impact, showing ished in recent years. The ALA is of course how beneficial art can be in education- a pro-library entity, and the document real models. The most interesting result is flects that, but they were not afraid to cite the difference in who was most effected; critical statistics and recognize areas of the study shows that students from rural improvement. The document is intendsettings saw the most improvement in ed to be both a critical approach to their critical thinking strength. This significant- improvement and a positive outlook for

Coffey, C. (2016). No Ordinary Place. Retrieved September 16, 2016, from http:// www.iasc-culture.org/THR/THR article_2016_Summer_Coffey.php

public library, Clare Coffey discusses offerings and the relationship between the library as a cultural center and the describes the nature of digital cataloguing, and identifies that it prompts some to attempt a streamlining process of the as an entity within a community outside of its economical dimension, and encourages a discussion of the library as a cultural element critical to communities.

Dwyer, C., & Davies, G. (2010). Quali- of the report. tative methods III: animating archives, artful interventions and online environments. Progress in Human Geography, 34(1), 88–97. https://doi. org/10.1177/0309132508105005

The report discusses contemporary geographical work. The report focuses on three areas: "the archive, artistic

collaborations and online engagements." The first piece is a discussion of archival methodology and purpose, critiquing the assembled accounts from geographers and current handling of them. The second aspect of the report discusses ar-In her review of the state of the tistic collaboration. It looks at the ability for art to be a reciprocal event, engaging the relationship between catalogs and groups outside of the artists, and relating that to geographic documentation and research. The third part of the paper inlibrary as a logistical mechanism. She vestigates online environments, viewing them as a facilitator of research, collaboration, and documentation that had not been seen prior to the advent of the inlibrary. She goes on to discuss the library formation age. The paper is optimistic in tone, and discusses a breadth of topics within one neat overarching theme (geography). The report is qualitative in nature, and the method of the researchers lends itself well to the reputable quality

> Kraljic, T., & Samuel, A. G. (2011). Perceptual learning evidence for contextually-specific representations. Cognition, 121(3), 459-465. https://doi.org/10.1016/j.cognition.2011.08.015

> > The research paper analyses the

unique pronunciation of speakers, and the reception of that language in the listener. The paper details how listeners perceive those messages, and encode and organize the pronunciations from the speaker into relevant phonemic categories to aid the perceptions following. necessarily the case. Those presumptions stated the opposite of this paper, saying that if pronunciations are ambiguous in relation to the speaker, that learning is blocked. Their three studies imitate the blocking process, and how that can paper is helpful when discussing perception, which is typically more of a semantic or qualitative discussion.

Leung, A. K. -., Kim, S., Polman, E., Ong, L. S., Qiu, L., Goncalo, J. A., & Sanchez-Burks, J. (2012). Embodied Metaphors and Creative "Acts." Psychological Science, 23(5), 502-509. https://doi. org/10.1177/0956797611429801

This research documents draws a

relationship between language, the connection between physical manifestations of metaphors and creative output in subjects. The studies show a connection between an embodied metaphor (thinking outside the box) and how many creative ideas regarding an unrelated object (a cluster of Legos, a doodle) the subject can think of while the metaphor is em-They discuss how the initial presump- bodied physically. The paper discusses tions leading to the document are not four studies along these lines, all testing and measuring creative responses from participants, with different metaphors. The studies were quite thorough, with well-crafted recording of the events. The "out of the box" metaphor is particularly relevant to architectural design, with all be eliminated with certain visual stimuli of the selected metaphors having interare present. The qualitative nature of the esting parallels to what is expected to occur in buildings that facilitate creative activities. The researchers could, as always, have gone further in their exploration, attempting to create even more physical embodiments of metaphors.

> Rainie, L., Zickuhr, K., Purcell, K., Madden, M., & Brenner, J. (2012, April 4). The rise of e-reading. Retrieved from http://libraries.pewinternet.org/2012/04/04/the-riseof-e-reading/

> > This report discusses the rising

popularity of eBook reading. It identifies usage statistics and trends, noting growth in the amount of American adults who are considered eBook readers, and citing digital reading means as a cause for that. The surveys show that e-reading media are still significantly more prevacreated this rise, noting that e-reading occurs on personal computers, laptops, cell phones, tablets, etc. The report is robust in the questions it is asking, and transparent in the representation of the data. One criticism would be that it is quickly becoming out of date with the state of digital technology developing much faster than the researchers could update.

This paper discusses the relationship between art, the communities in which it is formed, and how the geographers researching the area see that art, analyzes trends within that group. They and art as a method of public pedagofind that a large group of adults who read gy. They discuss the economics briefly, e- say that they read more than before, showing that some communities fund for monetary gain but that many are funding public art projects as a renewal effort. is seeing a dramatic rise, but that print The discussion moves to public pedagogy, and describes how art can function lent. They note that the variety of devices as an educational tool that works outside available for e-reading is part of what has of a formal educational system; the conclusion being that it works in a less direct way to challenge out of students a response to the work. The paper is comprised of built assumptions, following a break-down of four other papers and how they relate to art as a public pedagogical object. The paper succeeds in reframing others' findings to create a model for public pedagogy.

Vandenabeele, J. (2012). Public space, er Classic Movies: Letterbox. Retrieved public art and public pedagogy. Social from & Cultural Geography, 13(7), 675–682. watch?v=5m1-pP1-5K8 https://doi.org/10.1080/14649365.2012. 728007

Schuermans, N., Loopmans, M. P. J., & Turner Classic Movies. (2009). Turnhttps://www.youtube.com/

> This documentary discusses the processes of translating a film to a format

of selecting what area of the frame will as experts and their positions as artists who are responding to adaptations of their productions.

Yazon, J. M. O., Mayer-Smith, J. A., & Redfield, R. J. (2002). Does the medium 3), 267–285. https://doi.org/10.1016/ perspective of the students. S0360-1315(01)00081-1

This study looks at how a sample of college students react to web-based

available to home viewers, featuring let- learning interfaces, and how they perterboxing techniques and pan and scan form within them. The researchers look techniques. The documentary features to the pedagogical possibilities of digital several popular film directors, including and information technology. They spe-Martin Scorsese and Curtis Hanson, who cifically look at how university-level studiscuss their position of the method of dents in science courses engage with the panning and scanning film; the process material, and if it addresses issues with passive learning. The study works with be shown in the home video. The format a course that had been offered for sevdoes create a feeling that their positions eral years prior to the study, integrating as director are influencing their opinions web-based environments into the course on the manipulations of works outside and requiring students to interact with of the hands of the initial film makers. it. The control engaged with the course Their positions at the top of the cinematas it had been run in the years prior, in ic world lends credence to their position a typical lecture format. The results highlighted students' improved understanding, and compared it to the results of the lecture based course which produced a recitation of given information where the digital course produced a more complete integrated understanding in students. The study results were qualitative, based change the message? The impact of a on the given responses from students web-based genetics course on university from the survey. This identifies both a restudents' perspectives on learning and sult from an environment, as well as the teaching. Computers & Education, 38(1– perceptions of the environment from the



The following three buildings were selected for analysis early in the process for several reasons. The most important factors were programmatic links to the design that will result from this research, desirable formal qualities of the building, and an overall variety of activities within each building. With those in mind, three buildings were selected from three different typologies to cast a wide net for analysis. That typological breadth will be substantial as the program for this project develops through the next semester during research and exploration.



Top: Figure 2 Middle: Figure 3 Bottom Figure 4



Tama Art University Library

Toyo Ito Tokyo, Japan

The Tama Art University Library, designed by Toyo Ito, is located in the suburbs of Tokyo. Ito designed the library to be integrated into the campus' existing circulation by designing a structure meant to follow the natural flow of the students walking, as well as their view patterns as they enter or walk by.

The building features concrete arches arranged in a seemingly arbitrary pattern in a way to interact with the garden just outside of the building. The arches intersect with each other, allowing a thinner structure throughout the building while still supporting the

heavy loads that come with a library.

The arches also serve as a soft separation for different areas of the building. Ito utilized the arches to articulate different areas of the building without the complete termination that comes with solid walls and doors. The soft separation gives the library to have a sense of continuity while allowing each space within to have individual

Above: Figure 5 Top -Right: Figure 6 Bottom-Right: Figure 7



35 Prytaneion Rediscovered **Precedent Analysis** 36



Ray and Maria Stata Center, MIT Frank Gehry Cambridge, MA

The Ray and Maria Stata Center houses offices and facilities for the Computer Science and Artificial Intelligence Laboratory, the Laboratory want, knock out a wall." for Information and Decision Systems, Linguistics, and Philosophy departments. allows for work on a building as Gerhy The building also provides several auditoriums and classrooms.

lived up to that goal, according to the some degree or another in libraries.

buildings occupants. The nature of MIT was embodied in the building, allowing scientists to explore new ideas in the building and on the new building they'd been given. Gehry is quoted as saying, "I'm happy when the building is forgiving enough so you can do things to it without destroying it. Put a new light where you

The nature of a private university describes, but much of that spirit can be applied to civic institutions in which The idea behind Gehry's design was STEAM (Science, Technology, Engineering, to connect MIT scientists and students Arts, and Mathematics) works are being who tended to isolate themselves in created. The always-changing nature of labs. The building Gehry designed has the Stata Center should be adopted to



Top-Left: Figure 8 Top -Right: Figure 9 Bottom-Right: Figure 10



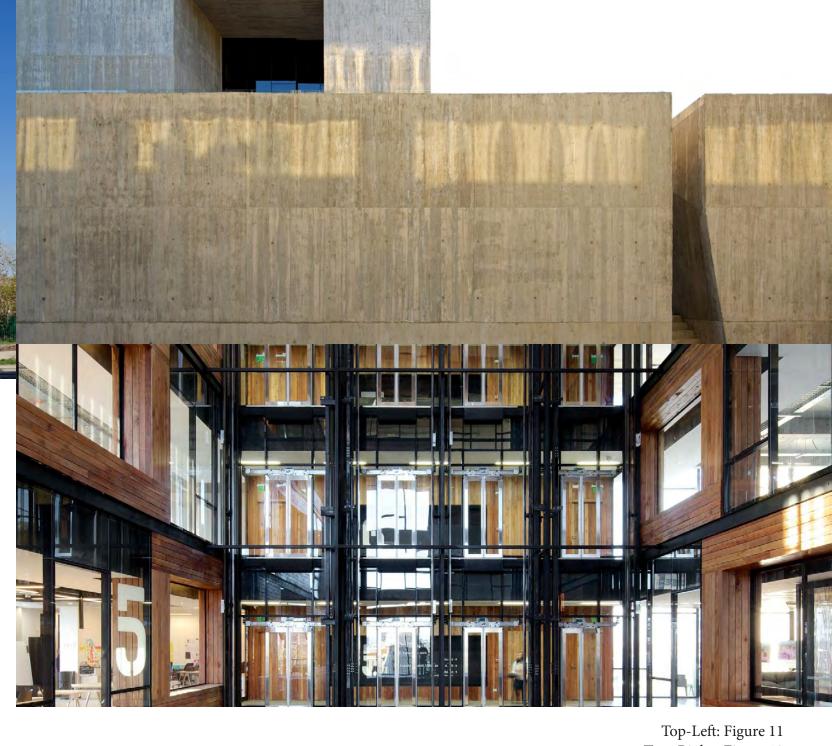
Innovation Center UC

Alejandro Aravena Santiago, Chile

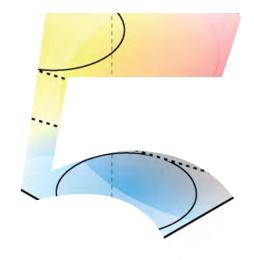
The Innovation Center by Alejandro Aravena and Elemental was developed vto provide businesses and researchers a space in which they could collaborate. The space identified was on campus of the Universidad Católica de Chile. The to better foster business opportunities for researchers, and to allow business owners to become part of the process of plan as possible. idea creation in a university setting.

The design of the building stemmed from functional concerns as

well as environ-mental. Elemental was tasked with producing a contemporarylooking building, but resisted the trend of facades identified in Santiago at the time. They cited the greenhouse effect that the glass facades had in a warm-climate area like Santiago. Elemental was also worried about functional obsolescence. They approached the programming and layout of the building as an infrastructure project funders of the project sought to bring by looking at the building as something businesses and researchers together that had to have a degree of toughness to withstand wear and tear, and to have as much flexibility incorporated into its



Top -Right: Figure 12 Bottom-Right: Figure 13





George Latimer Public Library Expansion Program

Function

The library will feature several types of media that community members can utilize, going beyond typical stacks, creating a variety of activities within a close proximity. Because of this, much of Time the floor plan surrounding areas allocated for basic needs will be unprogrammed to allow the users to use space as they imagine, and in as many ways as they wish within reason.

provided will be supported in many ways, including proximity and openness of the floor plans to allow users to meander. With much of the space being unallocated, users coming to the library will be opened to various activities they Notes were not necessarily searching for.

Economy

The library is a public building, which calls for a high quality of design and respect for the community members paying taxes to support the construction. The design will incorporate beautiful, but very durable construction materials throughout to maintain the building's performance for years to come.

Form

The building is situated between two major streets in St Paul, Kellogg boulevard and Shepard road, which have a height difference of nearly 100 feet. The building should incorporate public circulation into the functions of the library, both to support foot traffic in the area and to support the work presented within the building.

The library typology has changed significantly over the past 100 years, and quite rapidly in the past 5. Adapting to new technologies as they are developed The discovery of the media is critical to the success of the building for the community it serves. A flexible floor plan, with much of the organization based on the desire of the users, will help the building stay relevant going forward.

Each section of the building is based on the basic needs for those activities. The design should feature large amounts of unallocated space surrounding each section for community members to organize projects, work groups, etc. within the space as they see fit to form democratic spaces. Exhibit spaces are not included with any specific media space to allow for freedom of use. Just like the unallocated democratic spaces, the exhibit spaces should also be utilized freely by users to allow for a formal space for presentation.

Subtotal

Theater					
Black Box Theater		200	1	3000	3000
Green Room		15	2	450	900
Score and Script Collection		25	1	500	500
Theater Storage		10	1	500	500
Lobby Area		200	1	3500	3500
Box Office	1	2	1	30	30
Bathroom		10	4	300	1200
Subtotal		462			

Program

Building Area Space Name						
						Gross Building
Library	People	Capacity	Unit	Net Area	Net:Gross	Area
Front End	3	150		3900	0.6	6240
Literary	0	195		14050	0.7	23885
Audio-Visual	1	63		5075	0.6	8120
Production	3	83		7600	0.6	12160
Theater	1	462		9630	0.6	15408
Staff	8	31		1450	0.6	2320
Subtotal	16	984				68133

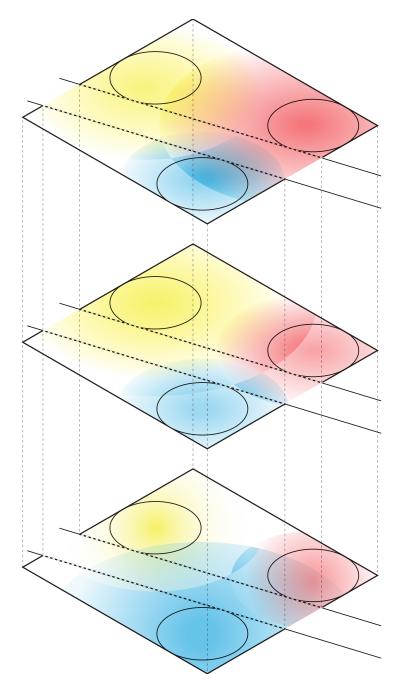
Land Use Area							
			Gross				
			Building		Building		
Library		People	Area	Floors	Footprint	GAC	Land Area
Building		984	68133	3	22711	25%	28388.75
Parking							
	Staff	16	2592	1	2592	70%	3240
	Public	150	24300	2	12150	70%	15187.5
		984	95025		37453		46816.25

Left: Figure 14 Top -Right: Figure 15 Bottom-Right: Figure 16

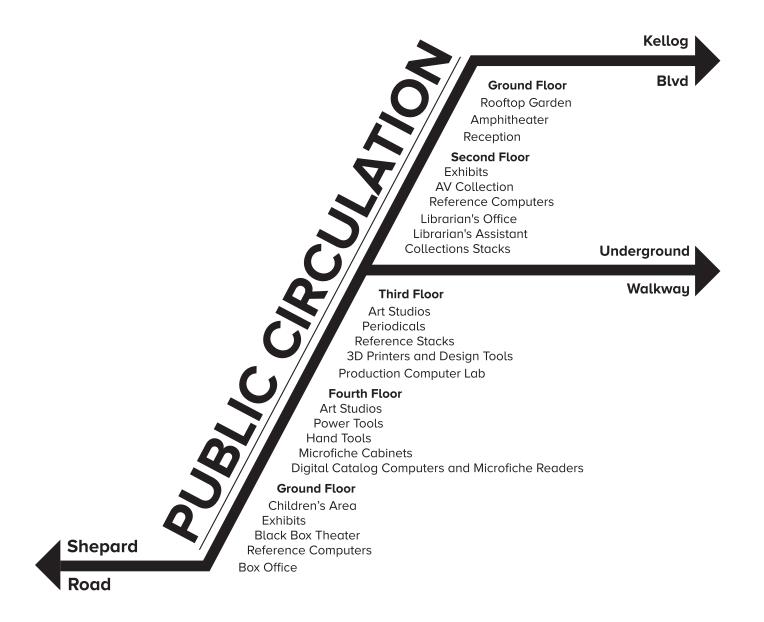
Space diagram showing the relationship between function and size through bubble size; usage throughout the day (x-axis), and typical transport type of visitors of that space (y-axis).

43

Left: Figure 17 Right: Figure 18

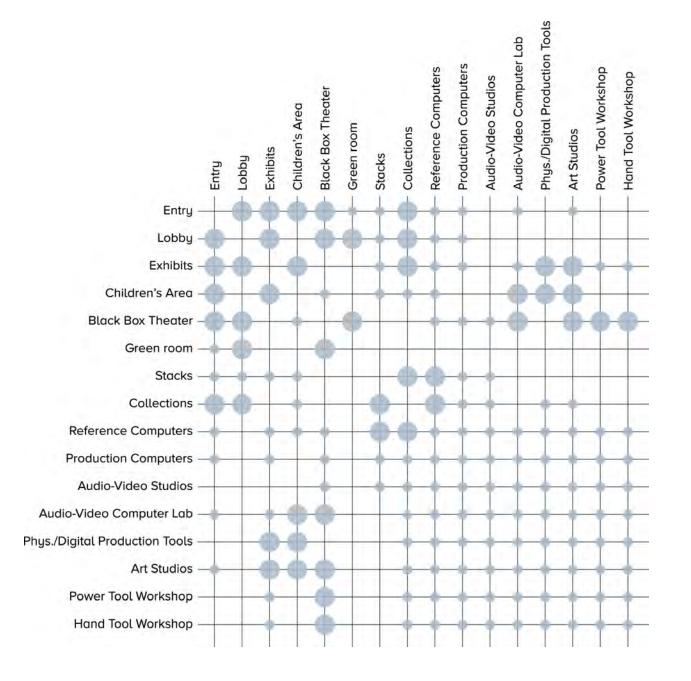


Relationship diagram showing staff- (literature, fine arts, production/ allocated spaces (outlined) versus user- industrial), but not specifically. The colors appropriated spaces (color gradients), are to emphasize how activities on one with a central circulation channel. The floor may overlap differently than on colors signify three different zones, others.

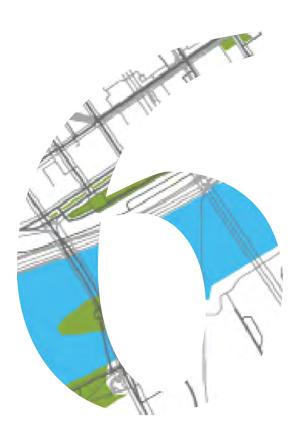


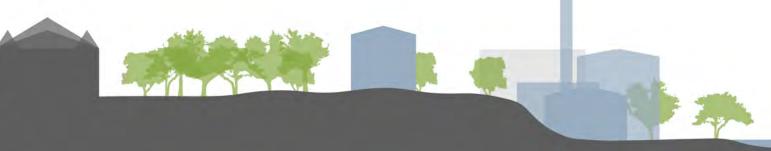
Early Floor-by-floor breakdown to begin to show the distribution of activities through multiple floors, as well as the significant presence of public circulation.

Left: Figure 19 Right: Figure 20



Relationship Matrix



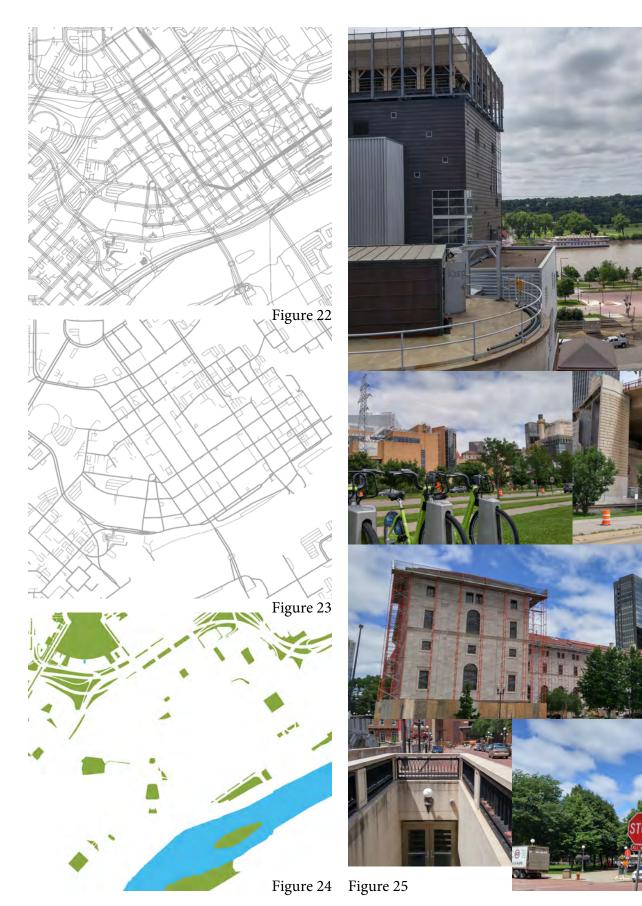


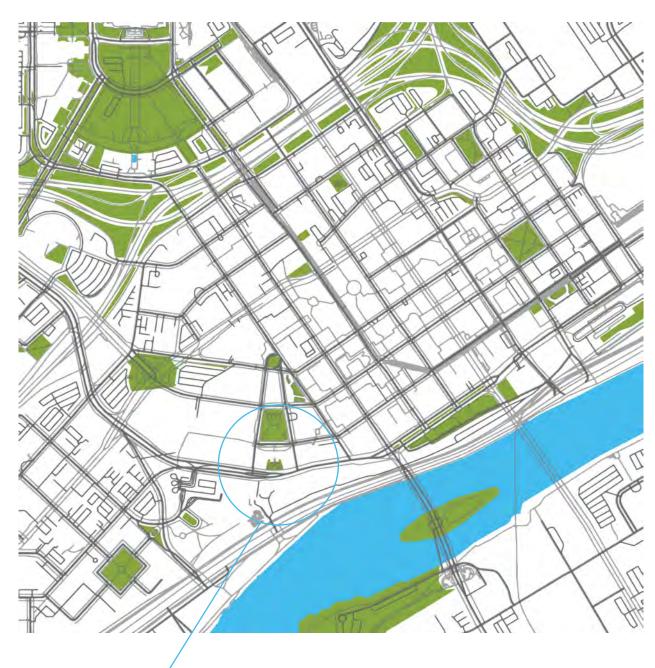
The most important aspect to the site is the connections to the city. The area is very walkable and features abundant public transportation options. St Paul's light rail system has stops within a few blocks of the proposed site, and there are several bike share stations both above and below the cliff.

The immediate area features many outlooks facing the river, but outside of the Science Museum's stairway it's difficult for the public to move from Kellogg Boulevard above and Shepard Road below, and for the public to connect to both the exceptional Riverwalk area and the downtown.







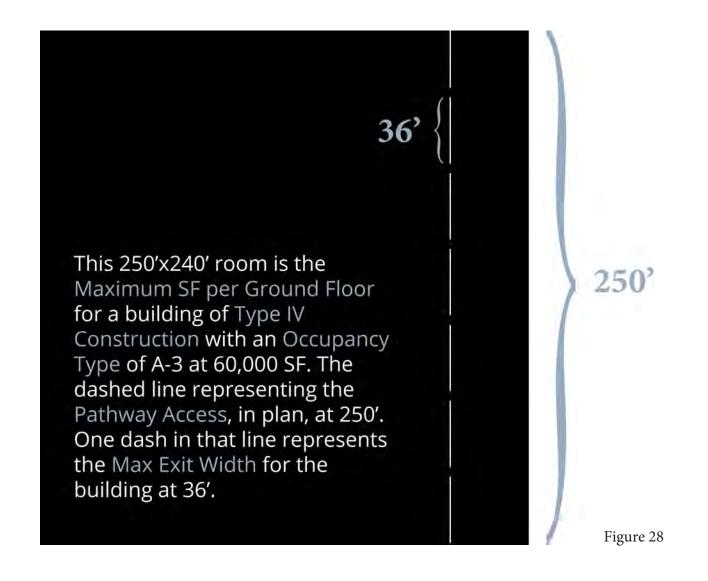


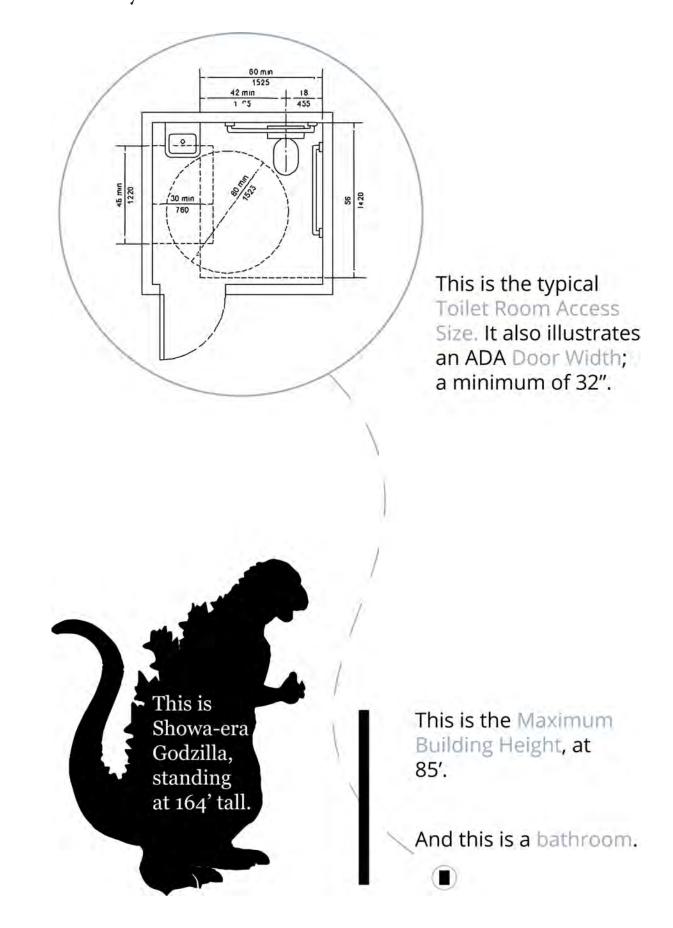


Top: Figure 26 Bottom: Figure 27



The project is located in St Paul, Minnesota, and will be designed in accordance with the 2015 Minnesota Building Code.





Prytaneion Rediscovered



Definitions of Research Direction

The first portion of the semester is dedicated to developing the building's program. It is in this phase that evaluative research methods will be of most use. This phase will incorporate historical precedent through texts and drawings, some from the original designer, some from scholars, to compare the ideas currently being applied to buildings from many years ago. The writings of Federica Goffi are of particular interest, and include drawings by architects of many eras as part of a thorough analysis.

The second portion of the semester is dedicated to building form. Interpretive research may be most applicable here as the architecture begins to take shape. The assessment and reassessment of values and ideas in order to apply them to future work is a useful tool as the design is now somewhat tangible and more impacted by public perceptions of what form should fit the program.

The third portion of the semester is dedicated to the accumulation of all of the data from the semester into a design result. The strength of the results of this form, and validity of the project as research, lie in how the process is framed for presentation. The presentation will utilize a multitude of visualization tools, including drawings and models, to convey and evoke as many feelings about the building as the research dictates.

Plan for Design Methodology

Semester Schedule

Plan for Documentation



Artefact Exploration January January 1/10 - First Full Day of Classes Diagramming Historical Precident, (Evaluettye) Programming Egress Pathfinding February February Modeling Illustration Preliminary Digital Modeling, Rendering Historical Analysis, March Urban Design and Planning March 3/6 - 3/10 - Mid-semester Thesis Reviews 3/20 - 4th Year Introduction Architectural Design Landscape Design Modeling April 4/14 - 4/17 - Spring Break 4/20 - Thesis Project Digital Form Due April Illustration Final Digital Modeling, Detailing Rendering May May 5/1 - 5/4 - Thesis Presentations

5/12 - Final Thesis Document Due

Left: Figure 30 Right: Figure 31

Resources

Plan

Gallery of Architecture City Guide: Boston - 17. (n.d.). Retrieved December 10, 2016, from http://www.archdaily.com/114206/architecture-city-guide-boston/statacenter

Gómez, A. P. (2008). Built upon love: Architectural longing after ethics and aesthetics. Cambridge, MA: MIT.

Innovation Center UC - Anacleto Angelini / Alejandro Aravena | ELEMENTAL. (2014). Retrieved December 11, 2016, from http://www.archdaily.com/549152/innovation-center-uc-anacleto-angelinialejandro-aravena-elemental

Minnesota Administrative Rules. (n.d.). Retrieved December 10, 2016, from https://www.bing.com/cr?IG=CED0743 BA43C41CC84EAF365904775D0&CID= 35F74B1353BB69E1138B42F9528A684 B&rd=1&h=9knAZ4EWq-Rxd-silU971ls_pkubD5pajK5ryePsTtc&v=1&r=https://www.revisor.mn.gov/rules/?id=1300.1300&p=DevEx,5070.1

Tama Art University Library / Toyo Ito by Iwan Baan. (2009). Retrieved December 11, 2016, from http://www.archdaily.com/22711/tama-art-university-library-toyo-ito-by-iwan-baan





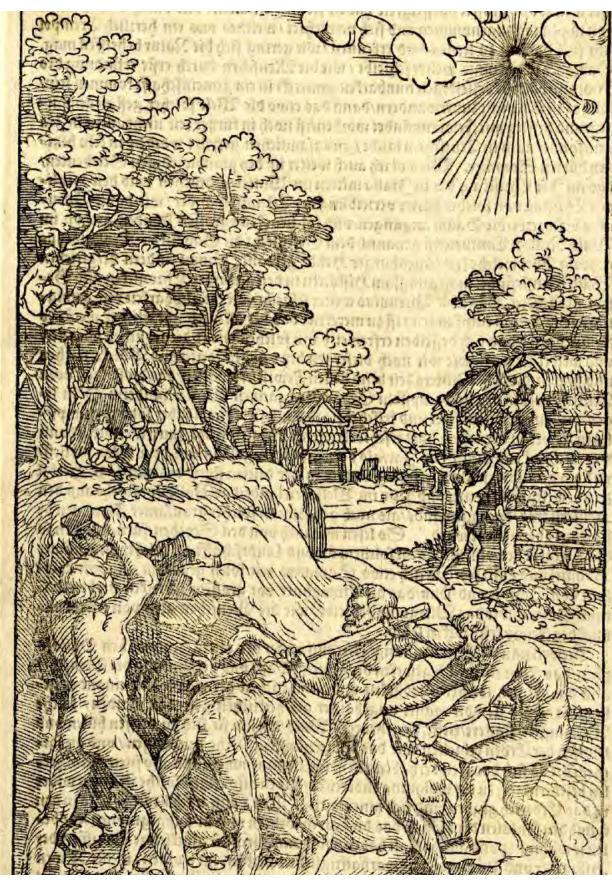
Prytaneion Rediscovered

Thesis Research

Theoretical, Historical, and Cultural Context

In the early 21st century, communities are beginning to see a shift in how they handle media. With current social and economic forces in mind, a civic approach to any media, art, literature, or otherwise, that only affords space for digital devices and a help desk will make it difficult for communities to make to accommodate new applications of technology and new ideas.

Today there is a need for a reimagining of what our communities offer to media. As we move forward, we must ask what our architecture says about our relationship with knowledge. This integration requires taking a step back to look at how we have handled media in the past, how that has developed, and how it can work in the context of communities as part of a larger world. As we move forward, we must ask what our architecture says about our relationship with knowledge.



Prytaneion Rediscovered

Figure 32

Our capacity for communication is the reflection of ourselves. Alberto Perez-Gomez discusses the origin of architecture and its correspondence with the origin of culture in Built Upon Love, citing the writings of Vitruvius. Vitruvius describes the origins of flame that drew humans together and for which they learned to communicate and create language. Architecture was made from the need to house and protect fire, a gift from the gods, and coincides with this creation of culture . To protect the flame in the clearing of the forest, we came together, began to communicate, and began to build, all because of a space that facilitated this.



Figure 33

Record Collections

Texts, even records of transactions, were the world. The Epic of Gilgamesh was a record of the world as much as a story, with imagination being inseparable from nature. The development of written record marks the beginning of history. Much later, the Greeks embodied their carry out ritual banquets and meetings, language that saw adoption many years prior. The space of the clearing developed over time and created the space for participation in Greece. The space that facilitated discourse and ritual fostered the recognition of individuals and their relationship within society and the natural world.

Greek storytelling was primarily an living, the permanence of written language was not at all desirable. To write these stories down was to stop their the recitation of story. This recitation the story, moving beyond narration, with individuals acting the parts of personalities and their divinity for a time. throughout the city.

The presence and dedication of architectural space in the center of the Greek city notes the importance of ritual of Greek oral traditions and alludes to

discusses. In the heart of the Greek polis was their clearing, the agora, and the symbol of the clearing, the prytaneion. The prytaneion was important in Greek cities because it provided a space for the community to meet and greet, housing space for feast and ritual. This communal house provided a place for citizens to stories, though resisted the written and to entertain foreign ambassadors visiting the city.

The prytaneion also housed objects of significance for the community. These objects were collected in large part to create a collective remembering and shared understanding. The objects held in the prytaneion were not collected for archival or for stylistic curation. They were instead held to remind citizens of crucial oral tradition. As stories were considered times in the city in a quasi-museum space . This collection created a space in which citizens could form and recall memories together to assess themselves and their ability to grow. This oral tradition made actions, and to engage in democracy ritual of myth. Communities performed and justice. This space was not the only catalog found in Greek cities, but the eventually became an embodiment of function of this space in the prytaneion was unique because of the active role of the artifacts in discourse, as opposed characters in the story, embodying their to the archival qualities of the others

Along with space for nourishment and communication was the polis' fire. The prytaneion housed and protected the flame of Hestia, goddess of domestication, an echo of the clearing Perez-Gomez femininity, and stability. Hestia's pairing

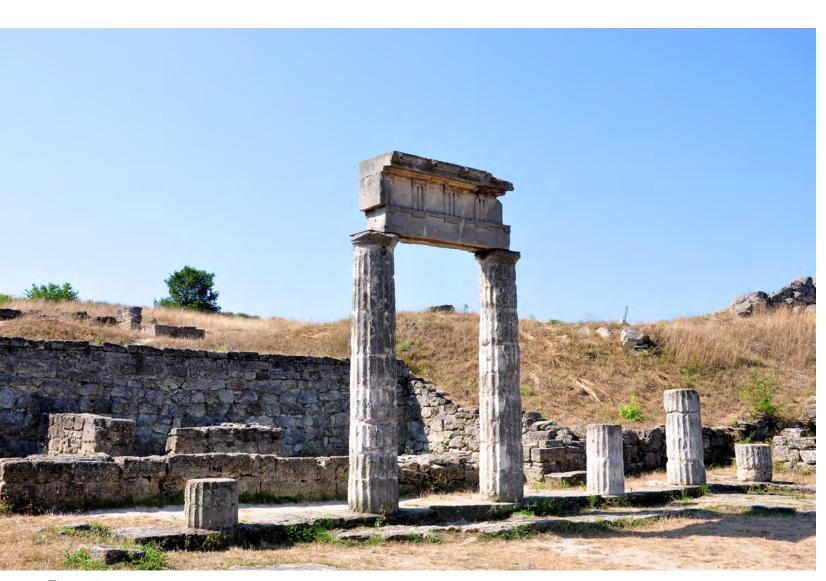


Figure 34

67

with Hermes, the god associated with and as far West as Egypt. He gave Egypt the masculine traits of communication, to Ptolemy I Soter, beginning Egypt's discussion and connection with the Ptolemaic dynasty. Ptolemy eventually world, and interpretation, creates the founded the Library of Alexandria in the allegory of dualities within the city . The 3rd century BCE. masculine-feminine duality seen in the pairing between the two gods serves as a reminder of the inseparable nature of other relationships: public-private, personal-interpersonal, exterior-interior.

The placement of the symbol for these dualities in the city center is then critical to understanding the Greek's relationship to their public, and how the polis mirrors the clearing as these needs were met in the prytaneion. From the need to protect the fire came a place in which they could communicate. The stability and femininity of the flame's housing pairs with the masculinity of discussion; the mobility and changing nature of the space for discussion. Greeks were able to use the centers of their city as a space for shared mobility, using knowledge to

The prytaneion also served a purpose in the late life of cities. As these cities grew and reached a maximum capacity, Greek settlers utilized the flame of the polis in colonization. Settlers from Greek cities took from the flame as they settled throughout the region, hoping that it would spark the same communal spirit in the new settlement. The conquests of Alexander the Great resulted in settlements as far East as India

move forward.

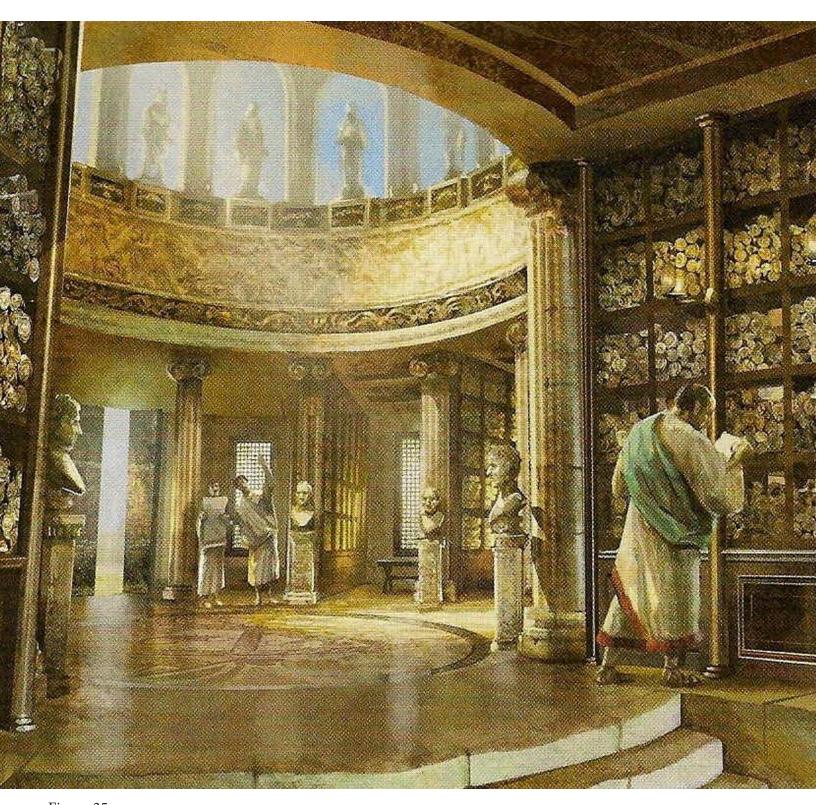


Figure 35

Centers for Scholarship

Thesis Research

The Library of Alexandria is one of the most significant libraries in history. The library, founded in the 3rd Century in the front guiding the direction of the BCE, was organized by Demetrius of Phaleron, a student of Aristotle, and styled after Aristotle's Lyceum, his school of philosophy in Athens. The library's establish new relationships between founding and dedication to the Muses, the nine goddesses of the arts, was part of its relationship with the adjacent Musaeum, all creating a home for music, poetry, a school of philosophy, and a library . The Musaeum of Alexandria was a service provided by the Pharaoh for the purpose of scholarship and research as much as a as resources for many and treating them means to boast the wealth service Egypt . Despite that, the Musaeum still housed examples is the British Museum. some of the most influential scholars in history, including Archimedes and Euclid, each having a tremendous impact on the future practice of architecture.

There was a shift in the space of participation in the Enlightenment, as rituals changed shape (e.g. Freemasonry). In "The Age of the World Picture," Martin Heidegger discusses the many phenomena of modernity and the The advent of modern thought created a shift in perception of records. Records, even those of dreams and myth, became objects of experience when compared to the investigations of science . With specialization as the base of scientific same way as the Library of Alexandria progress, our position with knowledge

shifted from scholarship to research and results, and from discussion to verification. The change alters the driver for knowledge, putting the publisher researcher.

With the 18th century began the proprietor and user in the area of art. Many individuals opened personal collections to scholars and donated to institutions in the event of their death. This era marks a tremendous shift in the sense of ownership, with the wellendowed considering their collections as such. One of the most significant

The British Museum began as the personal collection of Sir Hans Sloane, described as a cabinet of curiosities, opened in a home given to the crown. The museum opened in 1751 as a "universal museum" featuring a wide variety of objects, the museum contained over "71,000 objects of all kind ... [and] 50,000 books, prints, and manuscripts." The museum also received the right to impact on our reflections of ourselves. a first copy of every book published in the country, which allows the museum's library to expand directly with the culture of the country.

> The British Museum existed in the centuries later in an entirely different



Top: Figure 36 Bottom: Figure 37

world. The relationship between owner and user, and even in its idols throughout, highlights the similarities. These elements all point to the works within and the powers and inspirations from the larger world. The change in inspirations and powers underlines the difference between the Library of Alexandria and the British Museum. Those differences signify a change in our relationship with works of art and literature, with the provider becoming members of society in place of Pharos, and idols shifting from the Muses to the great men of the Enlightenment.

The British Museum and the Library of Alexandria each carry the torch, providing public space for discussion, storage of significant artifacts, and discussion among their community members; the thread of the gift of fire and creation of architecture in the clearing. Heidegger notes in "Age of the World Picture" that with modern thought, the artwork moves from record to a different communication as an object of experience . The organization of these objects in a house echoes the housing of artifacts in the prytaneion. As a housing for both domestication and discussion, the spirit of the agora lives through the new architecture of the museum with the adaptation of a new mentality. This echo is not possible without a change in the position of art and its relationship to knowledge.



Figure 38

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Fragmentation

The history of knowledge thus far has shown the development from the documentation of existence to include works that show artistic and intellectual value. This process has transformed literature into an object itself. This transformation is an act of fragmentation, traced through the development of works and the architecture around them. Fragments are many things; a stone from a broken building sculpted into a new work, a classic book isolated on a special shelf, a town with a simulated vernacular. Each example holds elements that reference things outside of their new context. Ultimately it is in modern action, processes of division and isolation, that creates fragments; objects pointing to different wholes.

Dalibor Vesely describes effects of fragment as having both destructive and healing qualities. The history of our relationship with knowledge traces the transformation of art from records of the world to experiential objects. This effect of modern thought has created fragmentation, traced through the objects and the architecture that houses them . Vesely's positive and negative aspects manifest in poetic and scientific acts, respectively. In scientific acts, empiricism breaks down the meaning of objects and reduces them to useful derivatives. In historical analysis, the negative factors of fragments are visible in the objectification

of the past. This manifests in architecture as reductions to language that don't convey experience: demands for square footage, building skins developed with non-inclusive algorithms.

The poetic and healing qualities of fragments manifest differently. Fragments have an ability to restore when they are used to point to the different whole, alluding to a world waiting to be called forth through expression. Vesely cites the work of Surrealists as strong positive uses of fragment, especially that of Max Ernst. His work, according to Vesely, utilizes the nature of collage as a "mechanism," bringing separate realities into one plane . The ability for fragment to heal comes in reuse, akin to the reclamation of the spoils of conquest. Ernst's work incorporates fragments in an illusionary way, combining elements that evoke many other situations to form one collage. These elements utilize scale, shade, color, and texture with the distance between fragments.

Vesely then compares Surrealist art to the work of Le Corbusier. The solarium atop the Charles de Beistegui apartment creates a room framed against and formed by the outside. The art of the Parisian cityscape adorns the walls of this rooftop, making something new with the old, allowing one to look both forward and backward simultaneously.

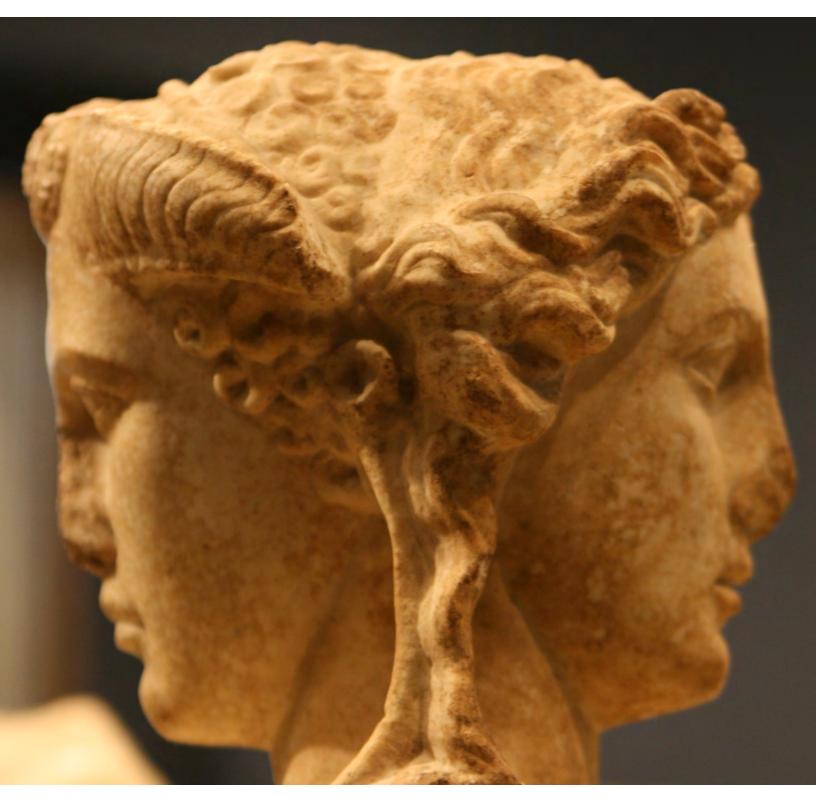


Figure 39

75

Directions

of the public library moving forward now mnemic depth. rests on the ability to help its visitors look back into many histories, thus mirroring the Roman Janus head. The head is the embodiment of the Roman god Janus. Janus is the namesake of January, the month of new beginning and reflection of the year past, the one who presides over every entry and departure . The embodiment on each arch graces the responsibility to join the past and future. Janus took the form of keystones in Roman arches to create the formal transition and to frame the fostering of memory and imagination. Marco Frascari discusses the Janus head in Monsters of Architecture, suggesting that the head is not to bring attention to the arch, but to instead to mark the nature of passing through.

Just as the Greeks and Romans did much earlier, modern architecture

must utilize modern fragments to guide the users of buildings to both remember Looking forward and backward and imagine. Looking again at the work through our architecture gives us a of Le Corbusier, we can see fragments way to look through and to ideas, a acting out the tendencies of the Janus way to remember the past and imagine through architecture. The space is something new. The modern library treated both as an interior as well as has traces of many of the buildings that open space, walled and open to the sky. have come before it. Assemblages like The individual elements of the solarium the indefinable curations of the cabinet each point to a different whole through of curiosities of the Renaissance come the understanding of their cultural together with the intimate collections context and condition, with the elements of our communities and regions like in further creating a continuity to make a the prytaneion, each with innumerable communicative space. Elements like this fragments within them. The significance give architecture a sense of memory, or a

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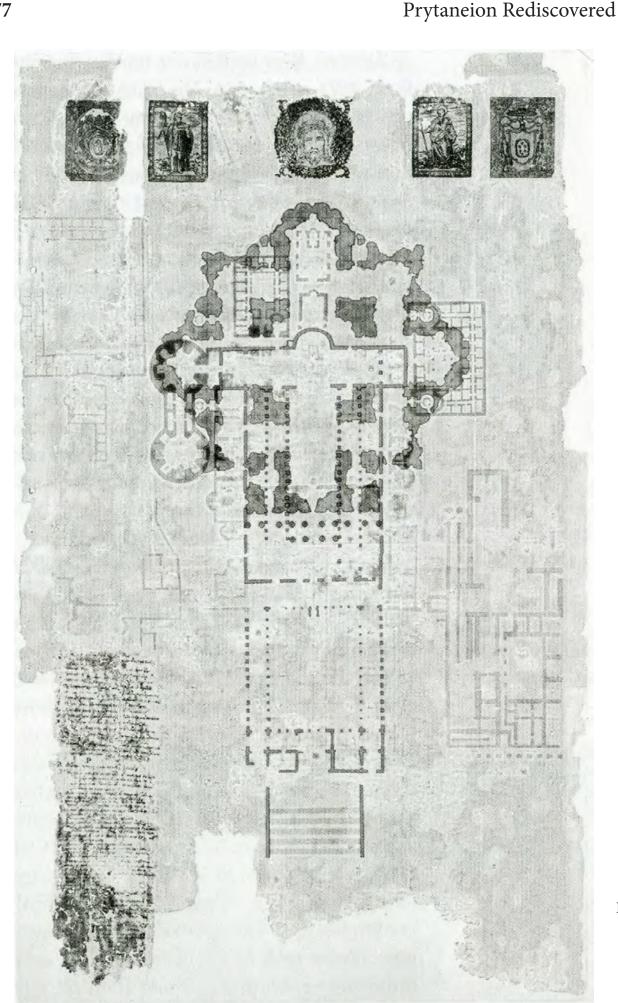


Figure 40

Ruins

Mnemic building is a typical function of human development. It can occur in the form of appropriating entire temples, and it can happen in the process of recovering stones from one building's demise for the creation of new forms. In Time Matter(s), Federica Goffi and that one must mask the aging of a discusses the temporal and atemporal building. In the time of the construction constructions of St Peters Basilica, and how at this time a building was never finished, and certainly not a finished New St Peter's took over 100 years on product. The process of architecture top of Old St Peter's which stood from included working and reworking far beyond the original design and is likened by Goffi to drawing, saying it too was looked at as an ongoing process.

Architectural artifacts, fragments of and within a building, point to different wholes: different buildings, constructions, and works. Goffi's analysis shows the layered dimensions of the drawings of Tiberio Alfarano. His plans for St Peter's Basilica feature several layers, representing the plan of Old St Peter's between word and image.

The continuity seen in Alfarano's drawings breaks up the flow of time we perceive in our buildings today. The relationship between built, unbuilt, and building yet to be has changed to create an expectation of a finished project, of St Peter's, the construction of a cathedral could take several decades; around 326 CE to 1506 CE. Our current relationship with architecture is greatly benefited by looking more closely at a building's timeline to reexamine new and old, and to look forward and backward.

Gordon Matta-Clark, an artist with aneducationalbackgroundinarchitecture, produced many works that broke down our relationship with architecture. Matta-Clark was born to two artists in New York City, and godson of Marcel Duchamp's wife . He studied architecture along with the plan for the new. Every at Cornell University, with a year at the choice made by Alfarano was significant Sorbonne, though never entered the and suggest something beyond the plan. field of architecture traditionally. With The gold paint of the walls of Old St Peter's the artists' group Anarchitecture, Mattarepresenting a mythical body and spirit Clark created works critical of the excess of the church, those walls' red undercoat and permanence desired of architecture representing the sacrifice of Peter, a layer by creating massive deconstructions, of white wash on top of which began rearrangings, and reformations with the drawing of New St Peter's and it is buildings. These incisions exposed many layers. Each points to something the built structure to reflect our views beyond the technical to create continuity of "destruction," as well as arbitrary



Figure 41

distinctions of property.

Thesis Research

In Splitting, Matta-Clark reveals the layers of a residence in a way similar to Goffi revealing the layers of Alfarano's drawings. The section of the residential building reveals the structure, board and drywall, finishes, paint, dirt, blemishes, and more paint: the timeline of the building. This timeline highlights the particular relationship homeowners share with their building, which goes beyond architecture as a product. The homeowner, who typically owns very few buildings, is forced to fix issues and adapt to changes (structural, personal or otherwise). For many, there is no option of buying a new house, so they must take care to work with their existing call out. conditions.

The idea of buildings as perpetually developing is not new, but it has required articulation to bring it forward out of architect who has noted the relationship between occupant and a building's of a typical consumer of architecture, as he notes the spirit a building reveals to us.

"I note that when a building is being made, free of servitude, its spirit to be is high no blade of grass can grow in its wake. When the building stands complete and in use, it seems to want to tell you about the

adventure of its making. But all the parts locked in servitude make this story of little interest. When its use is spent and it becomes a ruin, the wonder of its beginning appears again. [...] Everyone who passes can hear the story it wants to tell about its making. It is no longer in servitude; the spirit is back."

The phases of our buildings all have different relationships with their surroundings. The middle of the timeline Kahn gives highlights the same things Matta-Clark reveals with his work; both discuss the "finished" building. The building as a product requires upkeep to maintain the servitude of its parts that, during construction and later in decay,

Whether with the joists of a two story house or the reinforced concrete Kahn used in Bangladesh, buildings want to tell you their personality, identity, a haze. Louis Kahn is one particular and history. Matta-Clark exposed the negative fragments of building science to create an arrow with the structure timeline. Kahn's position differs from that pointing at his larger ideas. As with Kahn creation of a symbol for a new country's parliament, the Greeks' first facilitation of space for public participation, and the original clearing around the flame, Matta-Clark created a criticism and discussion through a building's personality.

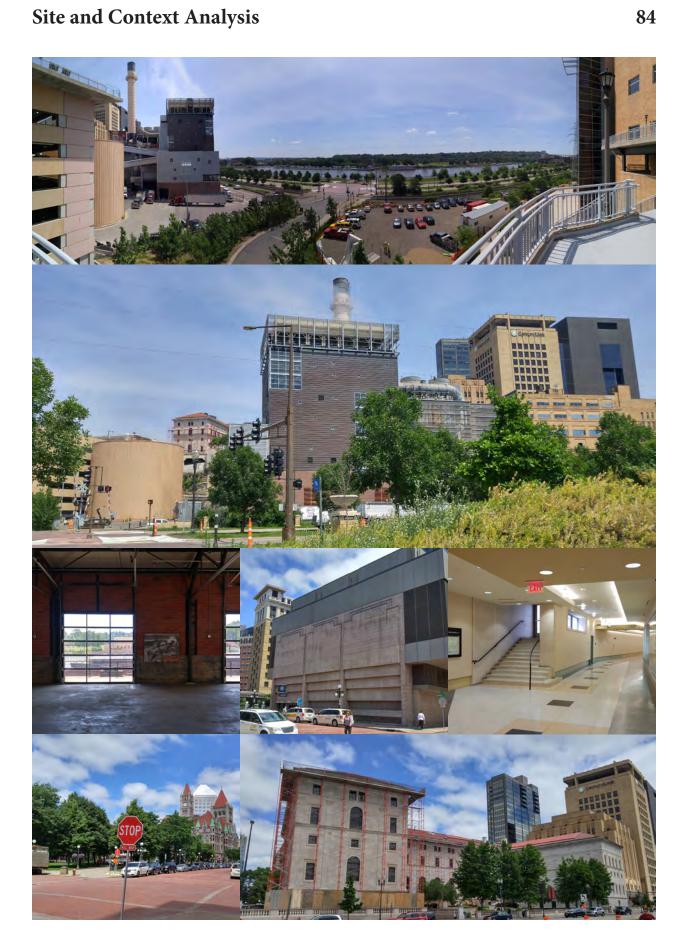


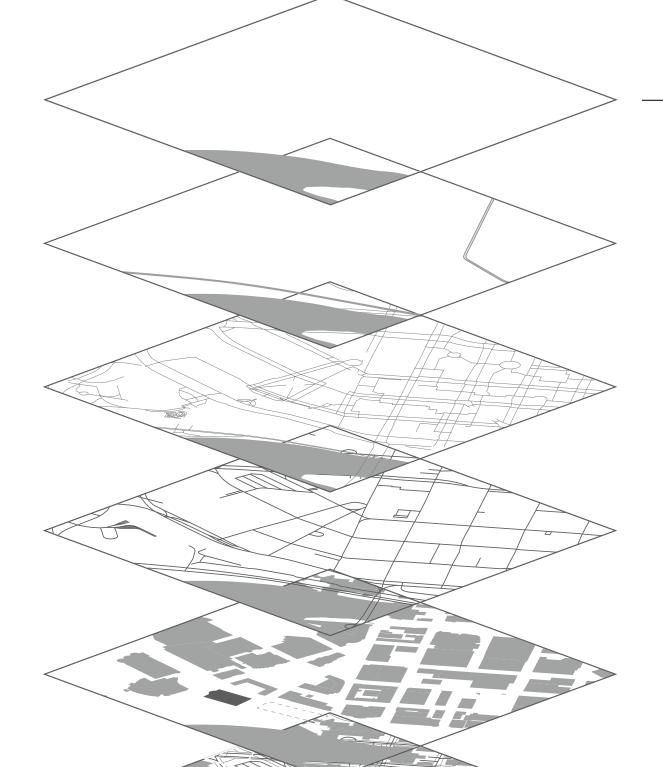
Passing Through

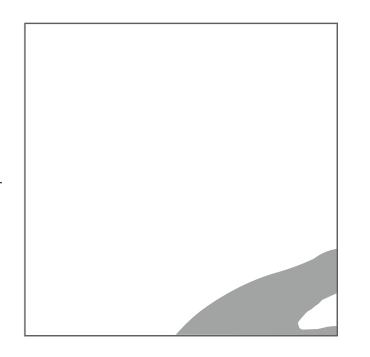
We are currently at a point of pressure. Economic issues and the devaluing of ideas is forcing an act of contemplation and reflection. Our civic architecture should embody the Janus, opening its community to the possibilities of memory and imagination, giving a space that points beyond itself and allows us to do the same with our ideas. This project and the context given is only relevant if we accept that the architecture surrounding our art says just as much about our ideas as the works within it. Our approach to designing spaces for ideas, both recorded and in the process of being made, should reenter the public domain. Communities should be reminded of their place in relation to the ideas before them, as well as their place in the timeline of their civic building.











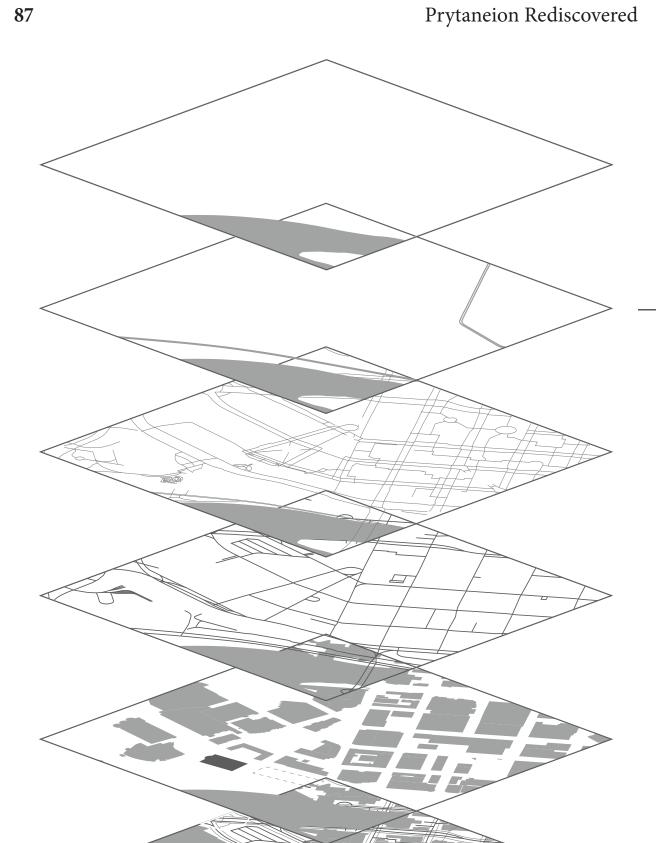
Water

The site connects to the Mississippi river to the south. The riverwalk area includes a long parkway, cycling and walking paths along its entirety, and multiple historic ruins celebrating the history of the river's industrial and cultural importance.

Top: Figure 44 Bottom: Figure 45



Figure 43





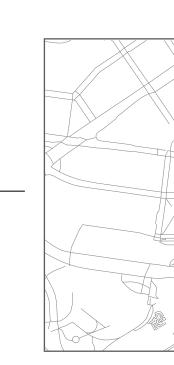
Rail, Transit

The center is surrounded by public transit and rail systems. The site is near the newly-constructed
Green Line, connecting downtown
St Paul to the Twin Cities' light rail
system, as well as industrial and Amtrak trains.

Top: Figure 46 Bottom: Figure 47



Figure 43



Pedestrian

The area is friendly to pedestrians, with the density of the city as well as verdant features along the Mississippi. The Twin Cities also features a strong cycling culture, and offers a bike share system with broad reach across the metro.

Top: Figure 48 Bottom: Figure 49



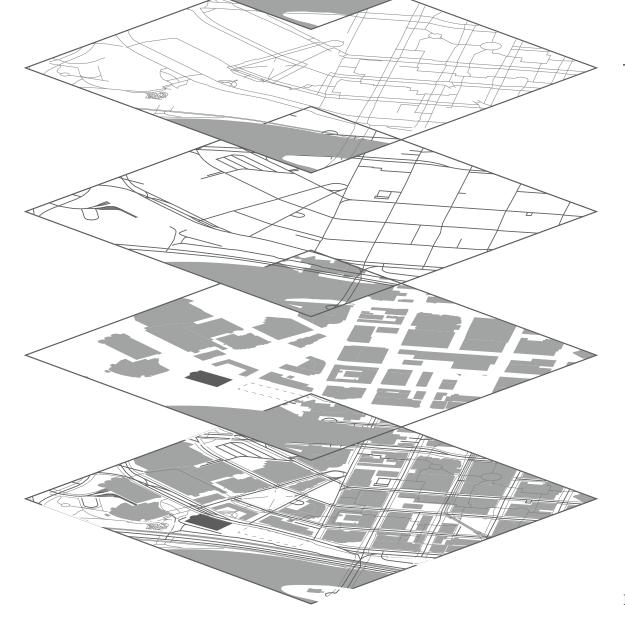
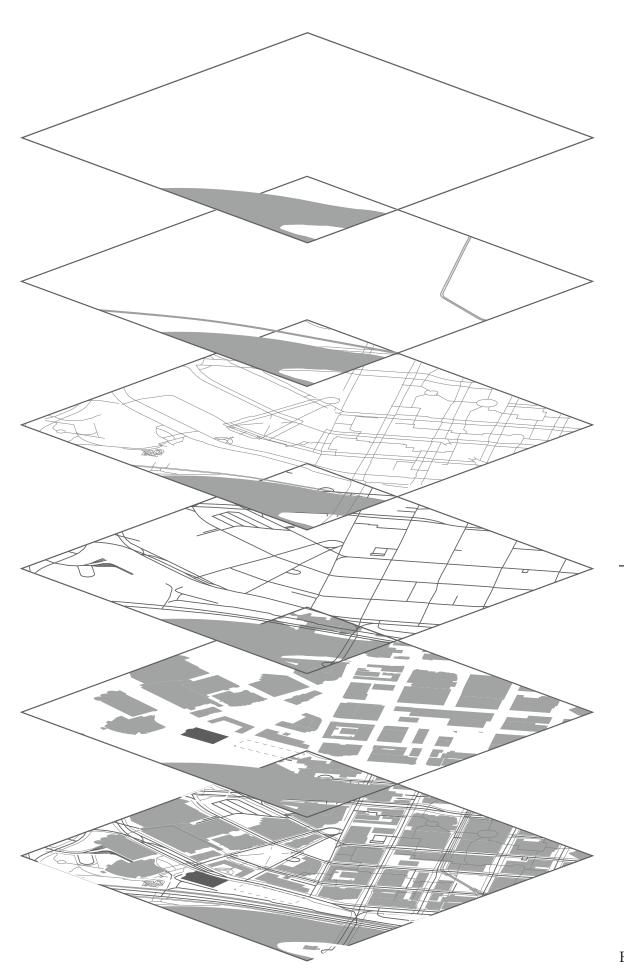


Figure 43

Prytaneion Rediscovered





Roads

This area is flanked by two of St Paul's most heavily-traveled streets in Kellogg Blvd and Shepard Road, and is next to the dense downtown area.

Top: Figure 50 Bottom: Figure 51



Figure 43



Built Environment

The surrounding area of the site includes a wide variety of cultural, civic, and commercial spaces. Immediate surroundings include the Xcel Energy Center, Ordway Center for Performing Arts, St Paul City Hall, and the George Latimer Public Library.

Top: Figure 52 Bottom: Figure 53



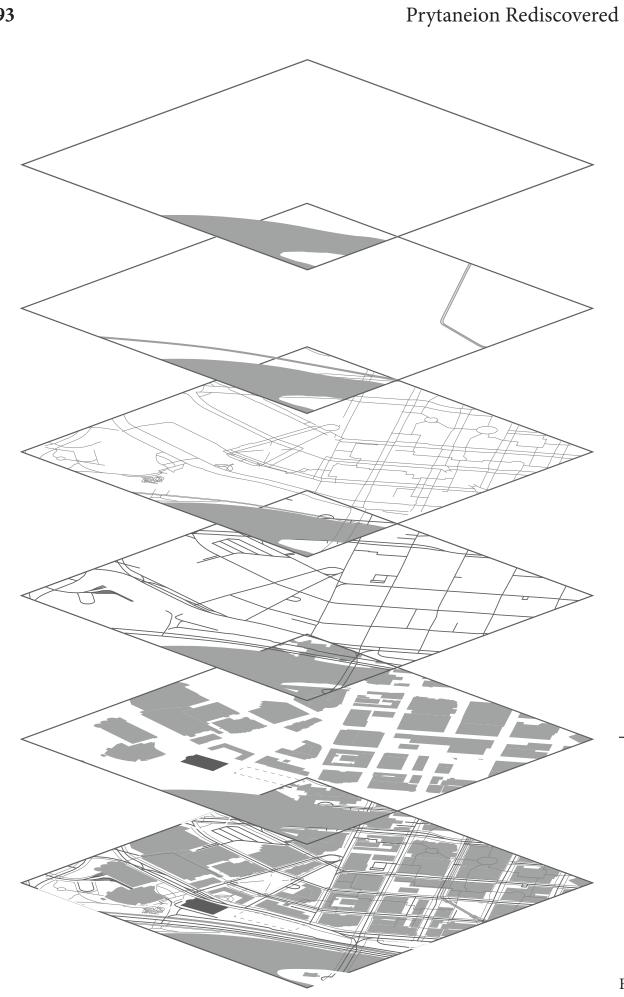


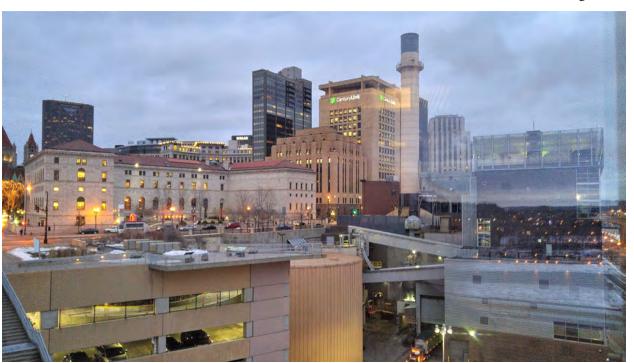
Figure 43



St Paul, Minnesota

St Paul is the capital of the state of Minnesota. The town was officially incorporated in the Spring of 1854, but served as an economic hub for French-Canadian tradesr for several decades prior.

Top: Figure 54 Bottom: Figure 55



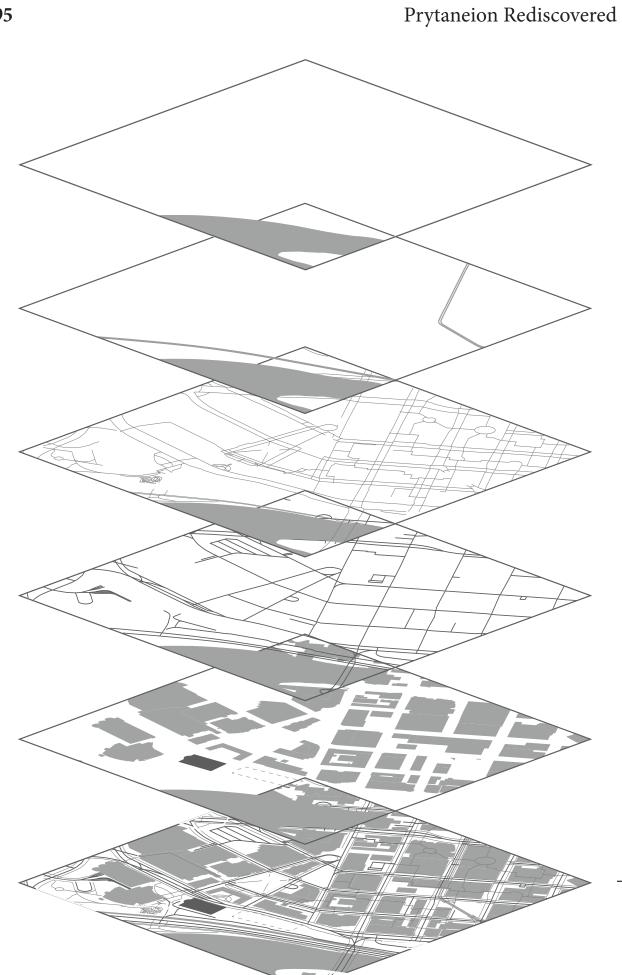
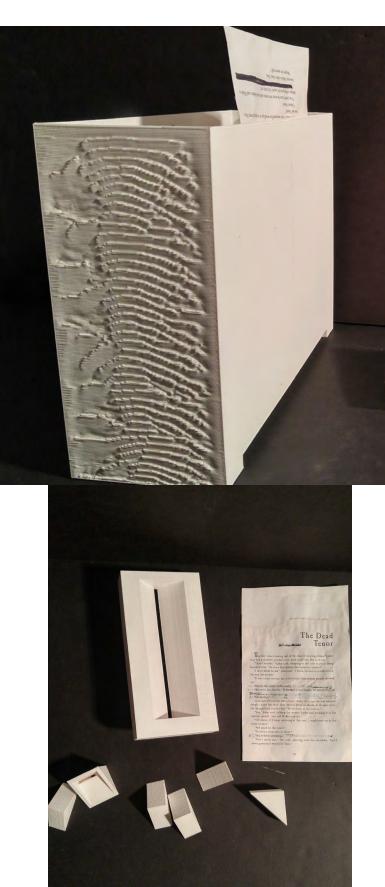


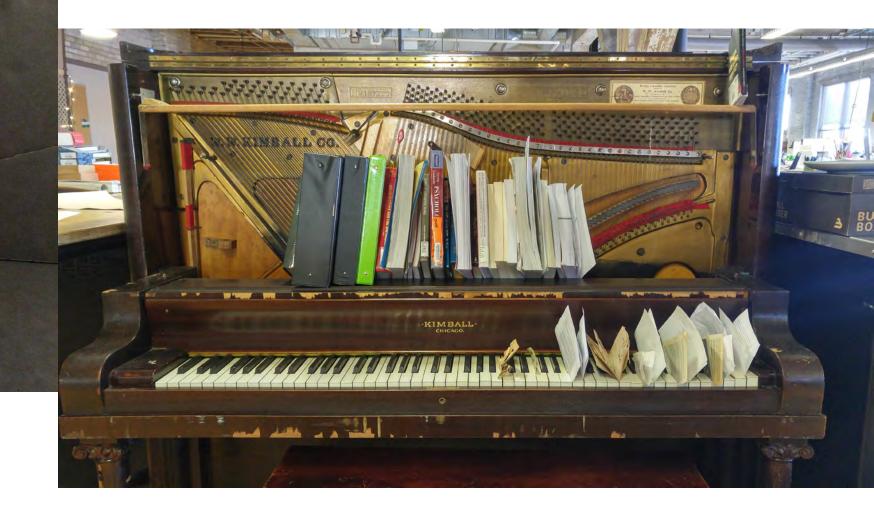
Figure 43



The process of imagining the architectural program through artefact has led to many discoveries about the incendiary character of knowledge. The artefact reconstructs letters from the historical contexts of the site by fragmenting and scattering, then asking a group to collect and reorder them through speech.

Prytaneion Rediscovered Design Process 100





Page 99 Top: Figure 56 Bottom: Figure 57

> Pg 100 Figure 58

Prytaneion Rediscovered **Design Process** 101 102

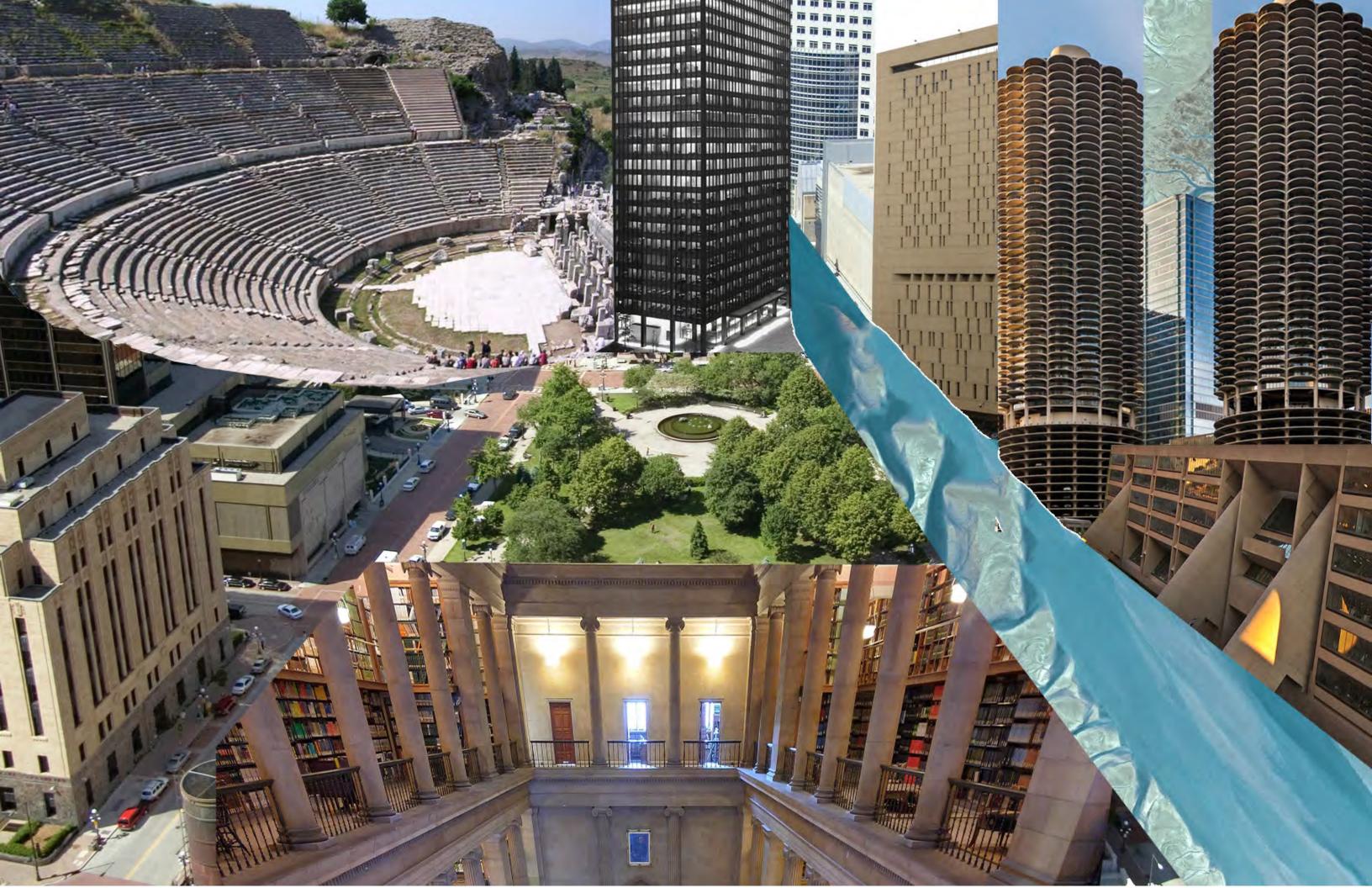




Page 101 Top: Figure 59 Middle: Figure 60 Bottom: Figure 61

Page 102 Figure 62

Page 103 Figure 63





Top-right: Figure 64 Top-left: Figure 65 Bottom-right: Figure 66 Bottom-left: Figure 67 Recitation melts the fragments of the letters together into a constellation of possibilities. Each new combination dances in a unique direction, creating an arrow for readers to seek more. With similar forces at work, the architecture will provide a new cultural center in St Paul, Minnesota.

OLD LETTERS ARE SPLIT, EACH FRAGMENT OF A FORMER WHOLE TOSSED INTO THE ROOM LIKE FUEL INTO A HEARTH. THE NEW FIRE OF THE OLD LETTERS BURNS FASTER WITH THE BREATH OF EACH READER.

107

I am here, Jesse, where it seems there is only the dry sand and the wet blood. I do not fear so much for myself, my friend Jesse, I fear for my woman who is home, and my young son Karl, who has never really known his father.

My heart tells me, if I be hone st with you, that this is the last letter I shall ever write. If it is so, I ask you something. It is a something so very important to me. It is you go to Germany when this war done, someday find my Karl, and tell him about his father. tell him, Jesse, what times were like when we not separated by war. I am saying—tell him how things can be between men on this earth.

If you do this something for me, this thing that I need the most to know will be done, I do something for you, now. I tell you something I know you want to hear. And it is true.

That hour in Berlin when I first spoke to you, when you had your knee upon the ground, I knew that you were in prayer.

Then I not know how I know. Now I do. I know it is never by chance that we come together. I come to you that hour in 1936 for purpose more than der Berliner Olympiade.

And you, I believe, will read this letter, while it should not be possible to reach you ever, for purpose more even than our friendship.

I believe this shall come about because I think now that God will make it come about. This is what I have to tell you, Jesse.

I think I might believe in God.

And I pray to him that, even while it should not be possible for this to reach you ever, these words I write will still be read by you.

Your brother, Luz Design Process 108

Dear Mr Hill,

Seeing that I have seen your fantastically entertaining and award-winning film The Sting, starring Paul Newman and Robert Redford, and enjoyed it very much, it is all together fitting and proper that you should 'discover' me. Now, right away I know what you are thinking: 'Who is this kid?' and I can understand your apprehensions. I am a nobody. No one outside of Skyline High School has heard of me ... My looks are not stunning. I am not built like a Greek God, and I can't even grow a mustache, but I figure if people will pay to see certain films ... they will pay to see me.

Let's work out the details of my discovery. We can do it the way Lana Turner was discovered, me sitting on a soda shop stool, you walk in and notice me and – BANGO – I am a star. Or maybe we can do it this way. I stumble into your office one day and beg for a job. To get rid of me, you give me a stand-in part in your next film. While shooting the film, the star breaks his leg in the dressing room, and, because you are behind schedule already, you arbitrarily place me in his part and – BANGO – I am a star.

All of these plans are fine with me, or we could do it any way you would like, it makes no difference to me! But let's get thing straight. Mr. Hill, I do not want to be some bigtime, Hollywood superstar with girls crawling all over me, just a hometown American boy who has hit the big-time, owns a Porsche, and calls Robert Redford 'Bob'.

Respectfully submitted, Your Pal Forever,

Thomas J Hanks

Tulsa Okla 10th April Mr. Henry Ford Detroit Mich.

Dear Sir: -

While I still have got breath in my lungs I will tell you what a dandy car you make. I have drove Fords exclusivly when I could get away with one . For sustained speed and freedom from trouble the Ford has got ever other car skinned and even if my business hasen't been strickly legal it don't hurt enything to tell you what a fine car you got in the V8 -

Yours truly

Clyde Champion Barrow

Design Process 110

tell Ea-nasir: Nanni sends the following message:

When you came, you said to me as follows: "I will give Gimil-Sin (when he comes) fine quality copper ingots." You left then but you did not do what you promised me. You put ingots which were not good before my messenger (Sit-Sin) and said: "If you want to take them, take them; if you do not want to take them, go away!"

What do you take me for, that you treat somebody like me with such contempt? I have sent as messengers gentlemen like ourselves to collect the bag with my mone y (deposited with you) but you have treated me with contempt by sending them back to me empty-handed several times, and that through enemy territory. Is there anyone among the merchants who trade with Telmun who has treated me in this way? You alone treat my messenger with contempt! On account of that one (trifling) mina of silver which I owe you, you feel free to speak in such a way, while I have given to the palace on your behalf 1,080 pounds of copper, and umi-abum has likewise given 1,080 pounds of copper, apart from what we both have had written on a sealed tablet to be kept in the temple of Samas.

How have you treated me for that copper? You have withheld my mone y bag from me in enemy territory; it is now up to you to restore (my mone y) to me in full.

Take cognizance that (from now on) I will not accept here any copper from you that is not of fine quality. I shall (from now on) select and take the ingots individually in my own yard, and I shall exercise against you my right of rejection because you have treated me with contempt.

Brooklyn, January 29th 1874.

Mrs. Kang and Ang,

We wish to negotiate with you about the Bodys of the twins it is a (?) subject but we wish you to answer by Return Mail the lowest price Cash. Confidential on our part you will oblidge us very much. Name your price. We would not think of proposing the subject but we think it will be for the Benifit for the County as others may be so unfortunate.

We Remain Respectfully Yours

Rozell, Horton and Gray 387 Myrtle Avenue Brooklyn N York Design Process 112

10 DOWNING STREET LONDON SW1A 2AA

THE PRIME MINISTER

4th December 1986

Dear Ron

I was glad that we were able to talk on the telephone the other day so that I could tell you directly how very much you and Nancy are in my thoughts at this difficult time. The press and media are always so ready to criticise and get people down. I know what it's like.

But your achievements in restoring America's pride and confidence and in giving the West the leadership it needs are far too substantial to suffer any lasting damage., The message I give to everyone is that anything which weakens you, weakens America, and anything that weakens America weakens the whole free world.

Whatever happened over Iran is in the past and nothing can change it. I fervently believe that the message now should be that there is important work to be done and that you are going to do it.

You will find great support for that over here in Europe - and I am sure in America too.

If you would like to talk about the issues on which we need to press ahead, I hope that you will call me.

Denis joins me in sending you and Nancy our affectionate good wishes and support.

Yours ever

Margaret

June 7, 1938

Miss Mary V. Ford Searcy, Arkansas

Dear Miss Ford,

Your letter of recent date has been received in the Inking and Painting Department for reply.

Women do not do any of the creative work in connection with preparing the cartoons for the screen, as that work is performed entirely by young men. For this reason girls are not considered for the training school.

The only work open to women consists of tracing the characters on clear celluloid sheets with Indian ink and filling in the tracings on the reverse side with paint according to directions.

In order to apply for a position as "Inker" or "Painter" it is necessary that one appear at the Studio, bringing samples of pen and ink and water color work. It would not be advisable to come to Hollywood with the above specifically in view, as there are really very few openings in comparison with the number of girls who apply.

Yours very truly,

WALT DISNEY PRODUCTIONS, LTD

By:

(Signed)

Design Process 114

To the American Red Cross, New York City.

The retrospect is glorious, the prospect is inspiring: Much might be said of both. But one idea dominates my mind. This — my best, my dearest — is for your noble cause.

I have observed electrical actions, which have appeared inexplicable. Faint and uncertain though they were, they have given me a deep conviction and foreknowledge, that ere long all human beings on this globe, as one , will turn their eyes to the firmament above, with feelings of love and reverence, thrilled by the glad news: "Brethren! We have a message from another world, unknown and remote.

It reads: one ... two... three..."

Christmas 1900

Nikola Tesla

10 Downing Street, Whitehall

June 27, 1940

My Darling,

I hope you will forgive me if I tell you something that I feel you ought to know.

one of the men in your entourage (a devoted friend) has been to me & told me that there is a danger of your being generally disliked by your colleagues and subordinates because of your rough sarcastic & overbearing manner — It seems your Private Secretaries have agreed to behave like school boys & 'take what's coming to them' & then escape out of your presence shrugging their shoulders — Higher up, if an idea is suggested (say at a conference) you are supposed to be so contemptuous that presently no ideas, good or bad, will be forthcoming. I was astonished & upset because in all these years I have been accustomed to all those who have worked with & under you, loving you — I said this & I was told 'No doubt it's the strain' —

My Darling Winston — I must confess that I have noticed a deterioration in your manner; & you are not so kind as you used to be.

It is for you to give the Orders & if they are bungled — except for the King, the Archbishop of Canterbury & the Speaker, you can sack anyone & everyone — Therefore with this terrific power you must combine urbanity, kindness and if possible Olympic calm. You used to quote:— 'On ne règne sur les âmes que par le calme' — I cannot bear that those who serve the Country and yourself should not love as well as admire and respect you —

Besides you won't get the best results by irascibility & rudeness. They will breed either dislike or a slave mentality — (Rebellion in War time being out of the question!)

Please forgive your loving devoted & watchful Clemie



I wrote this at Chequers last Sunday, tore it up, but here it is now.

Design Process 116

Sir,

Everyone seems to agree upon the necessity of putting a stop to Suffragist outrages; but no one seems certain how to do so. There are two, and only two, ways in which this can be done. Both will be effectual.

- 1. Kill every woman in the United Kingdom.
 - 2. Give women the vote.

Yours truly, Bertha Brewster



Top: Figure 68 Middle-left: Figure 69 Middle-right: Figure 70 Bottom: Figure 71





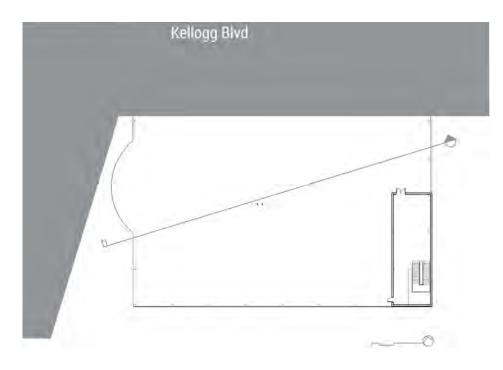


Top-right: Figure 76 Top-left: Figure 77 Bottom-right: Figure 78 Bottom-left: Figure 79 Recitation melts the fragments of the letters together into a constellation of possibilities. Each new combination dances in a unique direction, creating an arrow for readers to seek more. With similar forces at work, the architecture will provide a new cultural center in St Paul, Minnesota.

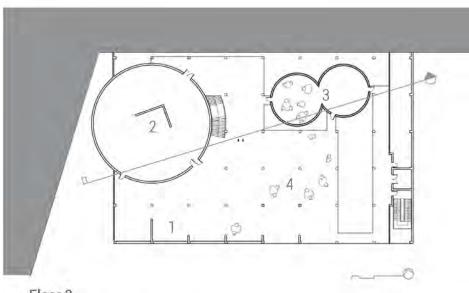


The project explores the relationship knowledge plays in the development of communities today. Through combinations of cultural and historic fragments, the building provides the public space for theaters, galleries, and tools for 3D fabrication and other arts. The program gives direction to artistic and communicative endeavors by reconciling its own context in the city and reflecting the socio-political stories within space that inspire new discussions, presentations, and creations.





Floor 4 - Access to Kellogg Blvd Public Rooftop Access



Floor 3

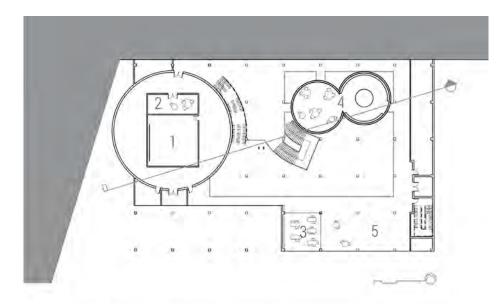
- 1. Open Classroom Spaces
- 2. Main Gallery
- 3. Computer Workspaces and Audio Media Archives
- 4. Open Workspaces

Figure 81 Figure 82



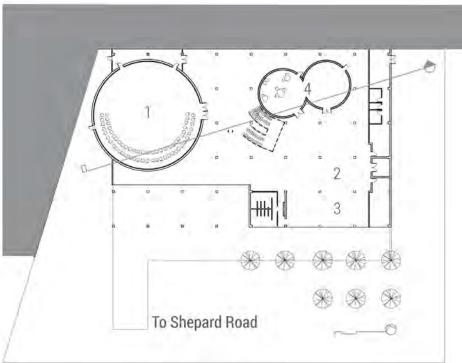






Floor 2 - Access to Downtown St Paul Tunnel Network

- 1. Film Studio/Green Screen
- 2. Control Room
- 3. Maker Space
- 4. Computer Workspaces and Visual Media Archives
- 5. Open Workspaces



Floor 1 - Access to Shepard Road, Mississippi River

- 1. Black Box Performance Space
- 2. Atrium Gallery Space
- 3. Open Practice and Workspace
- 4. Digital Workspaces and Archives



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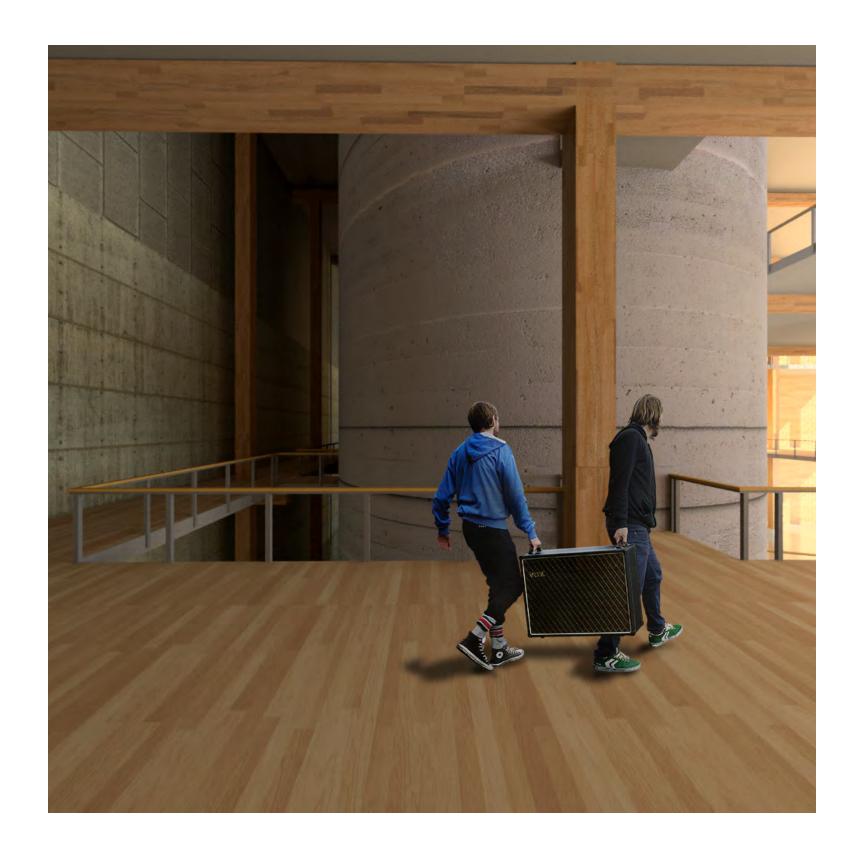


Figure 86

Page 131 Figure 87



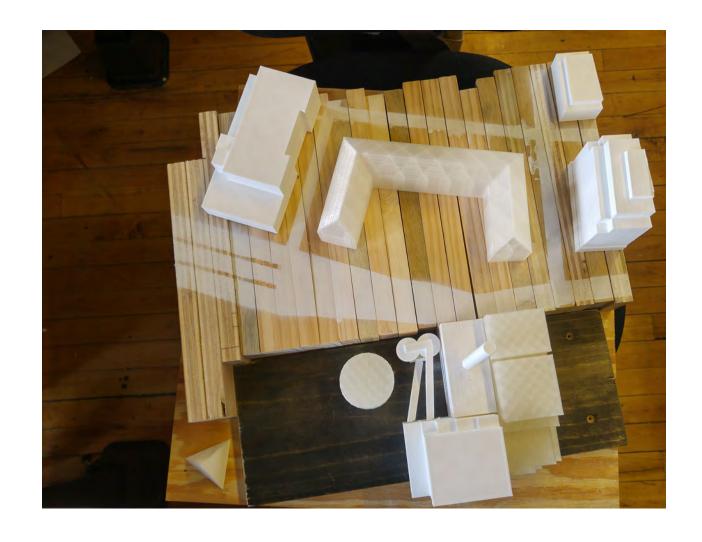


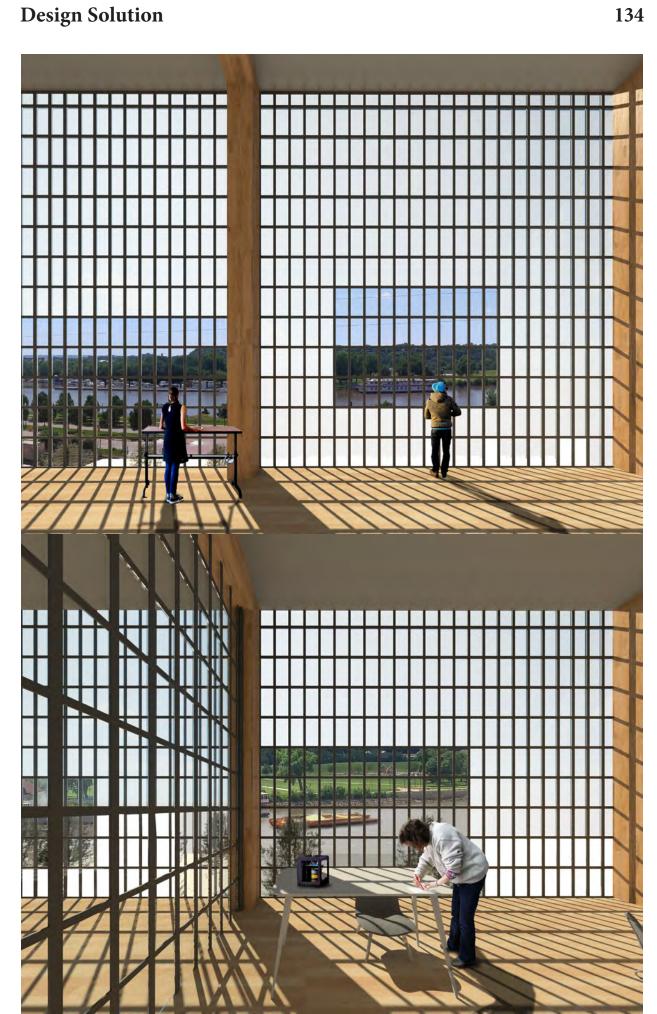
Figure 88

Page 134

Figure 89

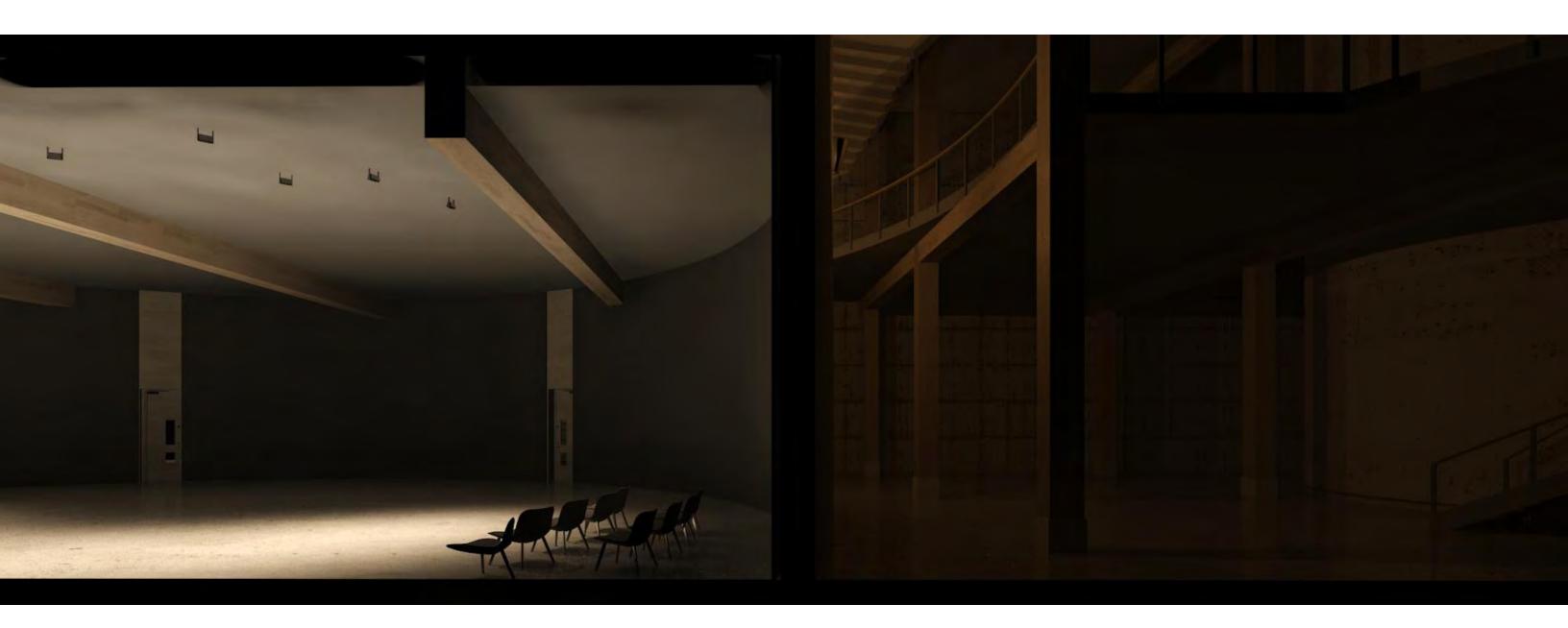
Page 135 Figure 90

Page 137 Figure 91

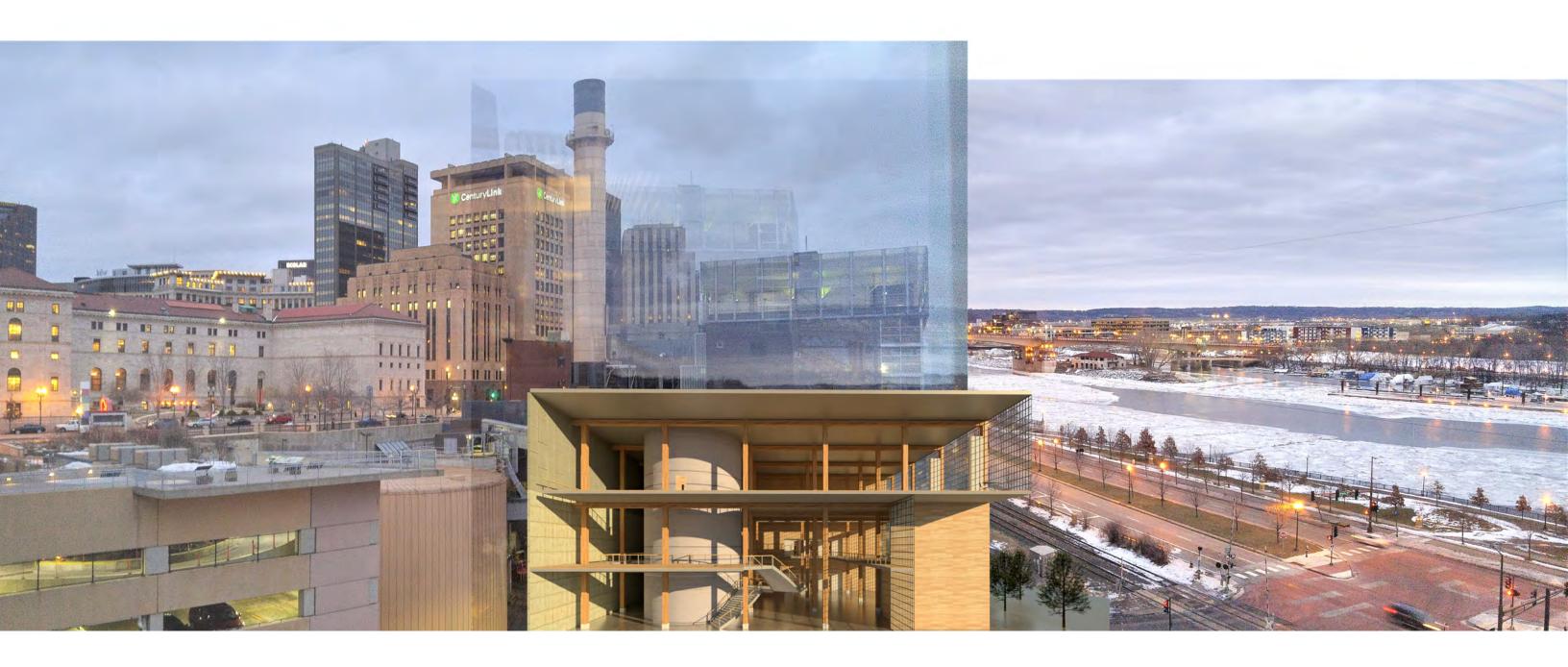














Performance Analysis

Performance Analysis

Response to Context	148
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Figure 95

Response to Context - Collage

Just what was it that made yesterday's homes so different, so appealing?

In 1956, artist Richard Hamilton was invited to participate in the This is Tomorrow exhibition in London. The exhibition grouped architects and artists of many disciplines and gave them the task of creating works of contemporary one of the most notable examples of art that elicit an external environment of the future. Hamilton, with architect John Voelcker and artist John McHale, created a collage of contemporary advertisements and photographs to reorganize themes (or products) into a landscape of societal direction.

Hamilton began the construction of his collage with a list of themes which guided his selection of images; "Man, Woman, Food, History, Newspapers, Cinema, Domestic Appliances, Cars, Space, Comics, TV, Telephone, Information." With this list, Hamilton selected imagery from American magazines. The base image, or template, came from an advertisement from Ladies Home Journal for flooring which featured a sitting room with new flooring from the advertiser. The ad also provided the title for the piece; the line color" provided the name and textual framework for Hamilton's work. The

images placed on the template come from many other American magazines, including the people featured. Each element taken from a different context and sales pitch, when reconstituted, frames a vision of a newly developing societal context through an uncommon means of creating architectural space in

Hamilton's collage, as well as being modern British art, is a great example of collage that creates a space that is particularly architectural. The reframing of advertisements for new products to create a view of an old home creates a reflection of society that is itself new and forward looking. In "Reading Poetry and Philosophy" Cyril and Liliane Welch discuss the difference between making and creating. They note that to make is to bring something into our view, but to create is to bring it into a new light completely. Hamilton's work with collage highlights the strength of both processes. Hamilton makes an assemblage of pop iconography that flows together and creates a comprehensive image. He is successful in making a readable, appealing collage. Hamilton also creates a reflection and direction with his work. The collection of ads realigns the original of copy "Just what is it that makes today's intent of each image (to make money on homes so different, so appealing? Open a product) to create a critique of what he planning of course — and a bold use of saw as a direction of society (to spend money on products).



letters so different, so articulate?

from historical contexts related to the and scattering, then asking the group to reconvene with portions in hand disseminated letters flowed into the room in coalescence, the disparate parts as it blended with the edges of others. Where other iterations mixed water and oil to make meaning, the final utilized voice and simplicity to stir elements into streams bent to new readers. potential creations.

The final presentation of the artefact shows what happens when knowledge and process are allowed to spill out into a presentation. The works filled the rooms, its new container, differently than how previous arrangements of the artefact had done so before. The openness of the presentation along with the direction of the reading created a current, pulling elements from the selected correspondence off the page to intrigue. The weight of the words was finally allowed to act and set static, hidden words in motion. Once in motion, they mixed with each other and with the wills of the reader and their expectations.

The letters, freshly pooled, showed early signs of motion. The knowledge

Just what was it that made yesterday's contained in them which had been sliced into paragraphs and sentences from letters were recombined and redefined. The collective process of the This work reconstructs letters drops of knowledge rolling from wall to ground to hand revealed a portion architectural project by fragmenting of the letters in a way that other forms of the artefact had not. Where other permutations concealed, the arbitrary in order to read the works aloud. The scattering and pinning revealed a greater direction. The turbulent relationship between knowledge and reader found a pooling, slowly losing individual definition resting point, however a new attempt at participation could again set the works in motion, opening different audiences to the same fragments reconvening in new

Prytaneion Rediscovered



Figure 96

Response to Site

Gugalun House

Versam, Switzerland Peter Zumthor

In 1990, Peter Zumthor was approached by a Swiss family to renovate an old farmhouse in the Alps. The building had been in the family for generations, though the latest owners had moved to the city. The challenge to Zumthor was to modernize without losing the magic of the original house.

the family because of his willingness to work with history where others may be apt to work history into the architecture. He designs in a way that allows the new structure to grow naturally into the surroundings and into the history of its place. Zumthor articulates his philosophy on the matter by saying that works should not only reference local history, but communicate with it.

"Every new work of architecture intervenes in a specific historical situation. It is essential to the quality of the intervention that the new building should embrace qualities which can enter into a meaningful dialogue with the existing situation. For if the intervention is to find its place, it must make us see what already exists in a new guiding other aspects of architectural

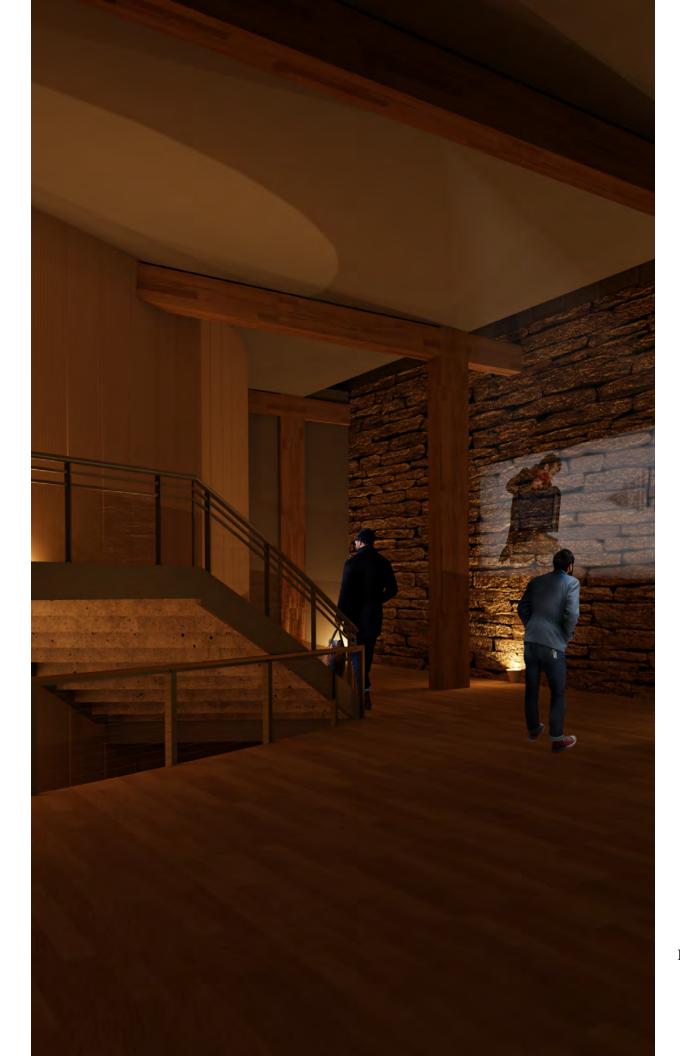
light. We throw a stone into the water. Sand swirls up and settles again. The stir was necessary. The stone has found its place. But the pond is no longer the same."

Zumthor's metaphor pond articulates not only the reason for his selection by the family, but also his approach to design. Architecture as stone, disturbing and changing the pond, also welcomes the effects of history and how it may disturb and change the built form. Zumthor sees his work as sculpting both in time and with time.

The artefact elucidated a similar metaphor in my own work. The scattering of letters through several interventions Zumthor was a good choice for created a new pool of knowledge than what was there before. The final presentation of the artefact shows what happens when knowledge and process can spill out into a presentation. The works filled the rooms, its new container, differently than how previous arrangements of the artefact had done so before. The openness of the presentation along with the direction of the reading created a current, pulling elements from the selected correspondence off the page to intrigue. The weight of the words was finally allowed to act and set static, hidden words in motion. Once in motion, they mixed with each other and with the wills of the reader and their expectations.

The exploration of the artefact is





design both figuratively and literally. The presence of old silos on the site have given the new project containers in which other forms of knowledge can flow together and settle in new exhibits and collections. As currently designed, the center is built around the silos, with floor plates and circulation approaching them without coming into contact. The empty vertical space surrounding each silo allows sounds and conversation to flow from one point of interest to another convectively. The arrangement of cultural elements on each floor then encourages visitors to settle from points of movement to the far reaches of the center, permeating through each crack in the arranged collections.

Figure 97

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Response to Goals

Unite community through works or research, art, etc.:

The building accommodates a wide variety of galleries, workspaces, and performance spaces that allow nearly anyone in the community to interact with the building on some level.

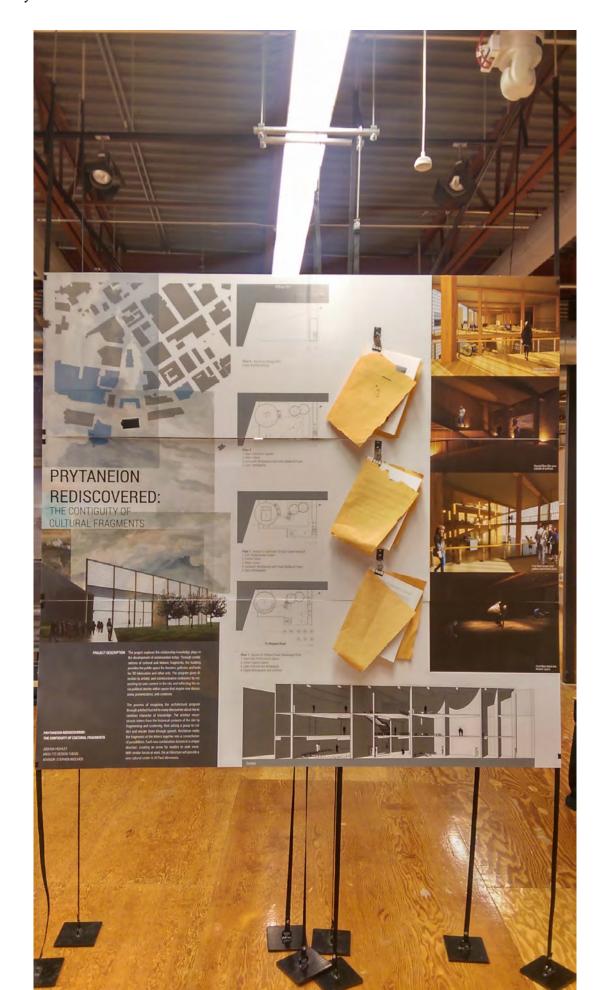
Flexible, durable building:

From large black box theaters to intimate hallways with potential for one-on-one interaction with works from local people, the building affords a multitude of ways for people to experience and exhibit. The new GluLam structure surrounding the remains of the old power plant give the building a structure that is equally flexible programmatically, and durable for years to come.

Connect to existing city infrastructure:

The center connects not only to the downtown street, but to the Riverwalk on the lower level, as well as the underground tunnel network below grade. The building guides visitors from the community through new and old structures holding up new and old works from the members of the community that support the possibility for such a community center.

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Figure 100

Joshua Highley

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Hometown: St Paul, MN

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Previous Studio Experience

2nd Year Spring 2015

Malini Srivastava

Fall 2013

Cindy Urness eFargo Center and Riverwalk

(museum and research center, Riverwalk)

Teahouse

(teahouse)

4th Year

Spring 2014

Joan Vorderbruggen

Fall 2015 David Crutchfield

Modern

(school of dance) 659 Mission

(mixed-use high rise)

IM Pei Bird House

(avian residence)

Spring 2016

Beck Residence Malini Srivastava

(single-family residence)

Design+Build

(high-efficiency single-family residences)

3rd Year

Fall 2014

Ronald Ramsay 5th Year

Se-purr-cher Fall 2016

(cat mausoleum)

Stephen Wischer

Elder Wickersham Hall at Darrow School

(performance hall)

Thesis

Fennimore County High School

(k-12 public school)

Spring 2017 Stephen Wischer

Thesis

NAAB Criteria

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Professional Communication Skills

Write and Speak Effectively

Use representational media appropriate for both within the professional and within the general public

A.6
Use of Precedents

B.1 Pre-Design

Prepare a comprehensive program for an architectural project that includes:

An assessment of client and use needs Pages 11-12

An analysis of site conditions Pages 84-96, 117-120

A review of the relevant building codes
3
and standards, including relevant
sustainability requirements and an
assessment of their implications for
their project Pages 53-54
A definition of site selection and design
assessment criteria Pages 48, 84-96

C.2 Integrated Evaluations and Decision-Making Design Process

Demonstrate the skills associated with making integrated decisions across multiple systems and variables in the completion of a design project, including:

Problem identification	Pages 40, 62
Setting evaluative criteria	Pages 12-14
Analyzing solutions	Pages 147-156
Predicting the effectiveness of implementation	Pages 155-156