Syracuse University

SURFACE

Architecture Thesis Prep

School of Architecture Dissertations and Theses

Fall 2003

A Structure Defining Movement: Mediating Between the Past & Present

Laura Klock

Follow this and additional works at: https://surface.syr.edu/architecture_tpreps



Part of the Historic Preservation and Conservation Commons

Recommended Citation

Klock, Laura, "A Structure Defining Movement: Mediating Between the Past & Present" (2003). Architecture Thesis Prep. 89.

https://surface.syr.edu/architecture_tpreps/89

This Thesis Prep is brought to you for free and open access by the School of Architecture Dissertations and Theses at SURFACE. It has been accepted for inclusion in Architecture Thesis Prep by an authorized administrator of SURFACE. For more information, please contact surface@syr.edu.

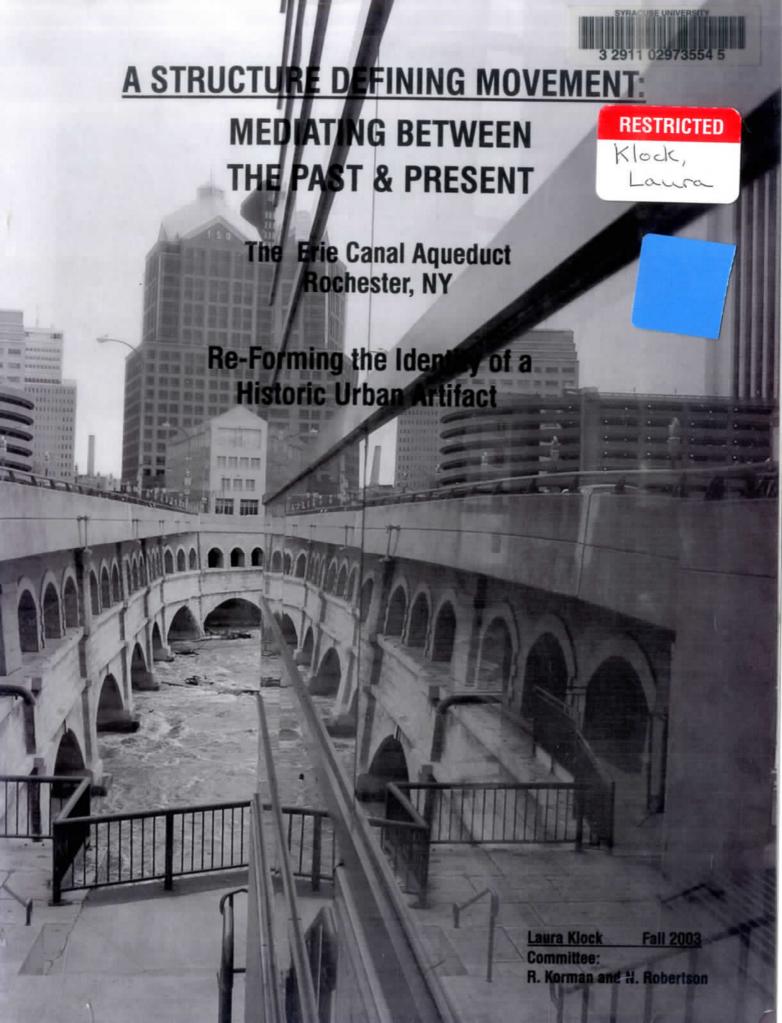


TABLE OF CONTENTS



- I. Concepts
 - A. Thesis Statement
 - B. Abstract
- II. Site
- A. Site Statement
- B. Diagrams
- III. Program
 - 1. Program Statement
 - Program Square Footage
 Program Descriptions

 - 4. Diagrams
- IV. Precedents
- V. Appendix
 - A. Conceptual Explanations
 - B. Exhibit Design Criteria
 - C. Bibliography

Structuring the movement through space, and thus the temporal experience of that place, can serve as a mnemonic device for the recollection of the past and the reinterpretation of a site's identity as a composite of the past and present.

Human experiences are inherently linked to the context of the place and time in which they occur.

Likewise, time is an essential element of place, whether it is the duration of time experienced in that place, or the markings of a past time present as physical form, recorded history, or memory. Because the various modes of time are simultaneously linked to a place, the past and present are coexistent and simultaneously influential. The present is dependant on the past, and the past is reinterpreted in the present context. Given a site that has markings of the past hidden and forgotten in the present context, the intervention of a contemporary project can reform the place and create a space for the reconciliation of the past and present. A museum is a common venue for the representation of the past, but to actively integrate the past and present through collective experiences, the museum needs to act as a dynamic, rather than static interface. Structuring the movement through space, and thus the temporal experience of that place, can serve as a mnemonic device for the recollection of the past and the reinterpretation of a site's identity as a composite of the past and present. The formal elements associated with movement across space, such as boundary, transition, path (sequence or lack thereof), and place (node), influence the experiences and memories formed in that space. Through the juxtaposition as well as integration of objects and events that reflect time, a sense of place can be formed that is at once contemporary and ingrained with its history.



The value of a context is its presence as an enriched field of potential themes. — Val Warke

The identity of a place is defined by the physical and historical conditions of its site as well as the cultural and individual perceptions associated with that context. When the idea of a contextualized architecture is explored, one must recognize both the limitations of considering the historic context, and the possibilities for a rediscovered and redefined identity. Within a city, a site's identity shifts over time based on changing uses, physical alterations, and altered perceptions. Therefore, the context of the past is seen through the filter of the present. Likewise, the present identity of a place is affected when the past is acknowledged in memory and physical form. Val Warke explains that "no word, no form is neutral; all words are inhabited by some other's voice from the past" (12). The non-tangible aspects of a place, both historic and current, provide a setting for the interpretation of physical form. History can thus be considered a dynamic element actively contributing to the context of a place, rather than a static condition of the past. A contextualized architecture reinterprets the history of an existing condition by serving as a filter, and thus creating a new identity rooted in the past, marking the present, and evolving in the future.

I propose to adoptively reuse a historic artifact in the City of Rochester to create a presence in the city of a currently unrecognized and forgotten past. By reforming the site with a contemporary program, the past can be recaptured and reinterpreted. The Erie Canal aqueduct, built over the Genesee River in 1842, is indicative of the industrial past of the Rochester because it was a crucial infrastructural element in the early industrial city. In 1920 however, the aqueduct was closed when the canal moved out of the city. Left with a ditch running through the center of the city, Rochester transformed the canal into a subway bed. A concrete superstructure was built on top of the existing aqueduct to contain the subway and create a vehicular bridge. The subway was subsequently abandoned in1956 when the need for a massive freeway system, linking Rochester to outlying areas, gained priority. A bridge without movement lacks function so I propose to reintroduce movement to the aqueduct. The bridge will once again become part of the infrastructural network of the city, but it will be reformed to contain a pedestrian path with places for public gathering. In addition to the formation of public space, I will design a transportation museum and cultural center for the aqueduct and adjacent building site.

For representations of history to be relevant to the public that views them, they need to be connected to contemporary life through use, interaction, and significant interpretations. I propose that the museum is more than a container for artifacts, but is an active cultural center with places for social interaction and individual reflection. The museum can be an interactive 'object' that serves as a bridge between history, memory, and contemporary life. It is a museum that presents rather than represents by providing a space for discovery and interpretation rather than displaying inert artifacts. Personal and collective memories are either recalled or newly formed from

the observed interaction of the past and present. Through the exhibits, the formal and material conditions of space, and the eperiential aspects of place, the museum can simultaneously present the historic and the contemporary.

I propose to create an 'open' museum so that access to and understanding of history is not limited to museum visitors, but is considered part of the public realm. The interveaving and overlapping of public and 'private' paths can blur the boundary between what is considered public space and what is seen as belonging to the institution of the musuem. This allows the context of history to inform the city and its social identity. A museum on the history of transportation is broad enough to expose people to a history that goes beyond the specific site, but since the site is pertinent to the transportation history of Rochester, it allows an identity of the place to be inseparable from its context. To connect the museum to the public realm, and bring the current transportation conditions into the museum, the public pedestrian path in the bridge will be intermixed with the museum sequence while a bus stop will link the building to the vehicular infrastructure of the city. Considering that the nature of the museum, as well as the site, is defined by movement, this project will explore the experiential conditions of a museum as it relates to the movement through the building and exhibits.

The language of the past, set in contrast to the present, and interpreted in the current cultural situation, will be the basis for giving a forgotten place a new presence in the city. The way in which people move through space, and the events that occur on that path can form the way that people understand a space, and the essence of a place. Encounters with distinct places and vistas, as well as the transitions, boundaries, and thresholds in an architectural procession can serve as the vehicle for introducing a new, or recalled context. One method for reforming the identity of the site will be the use of materials that reference industry and infrastructure, revealed through juxtapositions with new construction. Historically serving as both a source of power and a means of transportation, water is one element that can be reintroduced to the site. Furthermore, the stone foundation of an old flourmill which sits adjacent to the aqueduct can be represented as an industrial ruin. These foundations represent the essence of early Rochester as a booming mill town which drew on the resources of the Genesee River and the shipping opportunities of the Erie Canal. Stone, water, and steel (associated with the trolley) are materials that can be used in either a historic or contemporary language.

The site and program draw on a rich history, which will serve as a framework through which to explore a dynamic contextualism and temporal experiences. It is not simply a return to the past, but rather an interpretive recognition of context drawing on the interface between historic artifacts and contemporary form. The identity of a place emerges from a recollection of the past and a decoding in the present so that identity is re-formed, rather than simply reproduced.

- 1. Site Statement
- 2. Site Location
- 3. Historic Timeline
- 4. Tracing of the Historic Erie Canal
- 5. Tracing of the Subway Line
- 6. Sectional History

- 7. Speed Diagrams8. Existing Conditions9. Pictorial Site Description
- 10. City Analysis 11. Views Approaching Site



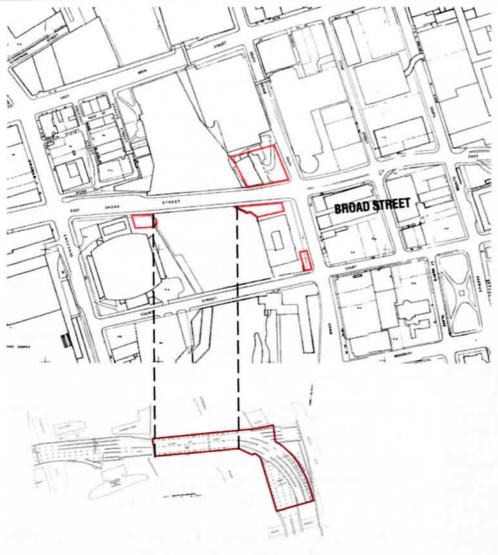


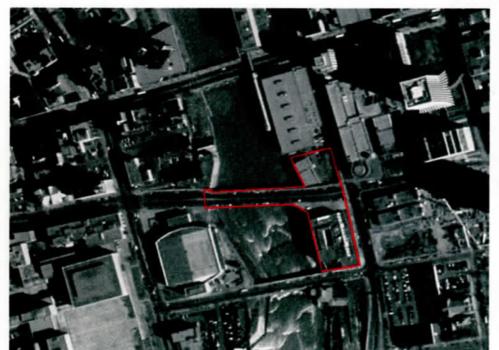
Rochester developed along the banks of the Genesee River since the potential for waterpower was quickly recognized and exploited. Rochester already had a thriving mill industry before the Erie Canal came into the city. However, after the Erie Canal was built and provided a quick means of transportation across the state, Rochester became one of the fastest growing cities of its time. The Erie Canal aqueduct, which carried the canal across the Genesee River, is indicative of the engineering marvels of the canal. It is one of the most recognizable elements of the canal still in existence. The canal was used from 1823 until 1920 when it was moved south of the city and converted into the Barge Canal. The abandoned canal left a gap running though the city that needed to be resolved. Given the continuing growth of Rochester as an industrial city, the proposal to convert the canal bed into a subway and vehicular street was well received. The trolley system ran through and under the streets of Rochester until it was abruptly abandoned in 1956 with the decision to build a superhighway connecting the city to outlying areas. Subsequently, the bridge was used intermittently by the Rochester Democrat and Chronicle newspaper as access to a loading dock further down the tunnel, but that too has closed. The structure of the bridge, aside from repairs has maintained its original from. The aqueduct today still serves as the Broad Street Bridge, but passers-by have no sense of the history that lies beneath the pavement.

The aqueduct sits in the heart of downtown Rochester. It is framed by important cultural buildings. To the west sits the Blue Cross Arena and historic Lawyer's Co-op Publishing house and to the east sits the Rochester Public Library and Riverside Convention Center. The library was built at the same time as the subway superstructure and actually rests above the trolley tracks and an underground cooling pool. Water for the cooling pool is fed by a millrace originally diverted from the Genesee to feed the Ely flourmill with waterpower. The race flows underneath the original floor of the aqueduct and into the basement of the mill still existing between the Convention Center and the aqueduct. A Rochester Gas & Electric substation currently sits on top of the foundations of the old mill but is being overtaken by a larger power plant down the river. The overlapping conditions of the Genesee River, the millrace, and the abandoned canal bed provides an interesting condition through which to reveal the importance of water to both the industrial and infrastructural histories.

I propose an intervention into the existing structure of the aqueduct and subway addition, as well as a building on the site adjacent to the aqueduct which will integrate the mill building foundations. These historical artifacts provide a context through which to explore how the built form can recall history. It will be a study of a contextualism that draws on a historical as well as contemporary language since "a history is, of course, only one contextualizing operation; one utterance generated in a present" (Warke, 13).

SITE LOCATION





The site at street level

The actual building site, located on the northeast corner of Broad Street, will be the main place where the museum can have a visual presence in the city. This is also where the foundations of the old Ely flourmill sit. The other possible 'sites' will be used for public access to the subterranean pedestrian path. They will appear as pavilions, expressing the space that is below the street.



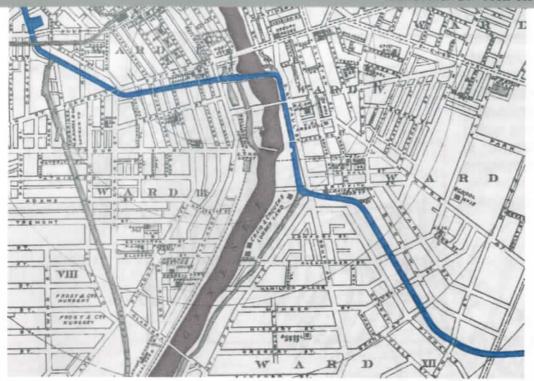
The space below street level

The bed of the old Erie canal, which was carried across the Genesee River by the aqueduct, sits well below the current street level. The proposed site includes the aqueduct as well as the space where the canal turned to follow the edge of the river. The structure for the subway follows the same curve of the canal, but a large space is enclosed under the Rundel Library to hold a cooling pool. This pool is what remains of the race that once fed the Ely Mill. Natural light comes into this space through openings under the library



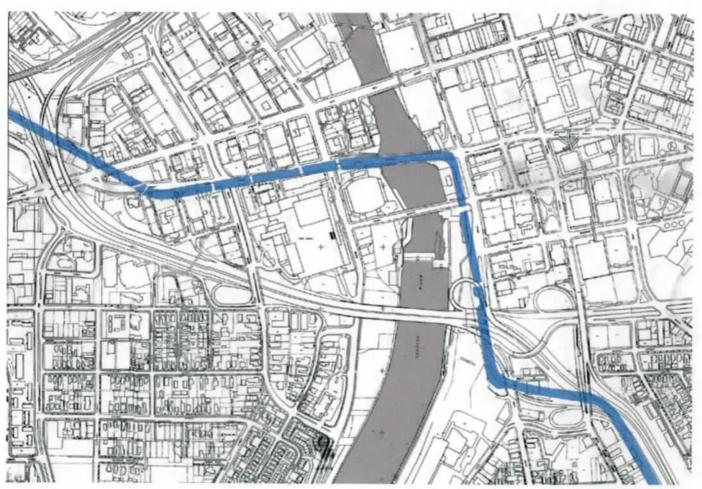
1780's	Flour and lumber mills develop along the Genesee River	9
1812	Rochesterville becomes a permanent settlement	
1817	Construction of the Erie Canal begins	
1823-1823	The first Erie Canal Aqueduct is built to cross the Genesee River.	
1825	Erie Canal opens state-wide	Lune Allen
1834	City of Rochester chartered	
1837-1842	The second Erie Canal Aqueduct is built to replace the deteriorating and inefficient first aqueduct.	
1880-1940	Rochester experiences rapid growth in population, physical size, economic successes, and cultural achievement.	
1890's	Debates arise about enlarging and rerouting the Erie Canal	72220
1920	Enlarged canal (the Barge Canal) opens south of the city; The canal through Rochester and across the aqueduct is abandoned.	1
1922-1924	Concrete superstructure constructed on top of aqueduct to house a subway system along the old canal ditch. The superstructure is paved over for the vehicular Broad Street Bridge.	
1923-1936	Rundel Library is constructed above the subway.	
1940's	The subway experiences a boom in use during the war time limitations on automobile use	
1956	The subway system is abandoned in favor of building an expressway connecting Rochester to the outlying areas	
1972	Road surface of Broad Street Bridge is reconstructed out of a precast, prestressed concrete slab and the limestone superstructure is repaired. The original aqueduct structure remains in good condition.	L-m-L-m-L-m-L-m-L-m-L-m-L-m-L-m-L-m-L-m
1976	Broad Street Aqueduct is added to the National Register of Historic Places	1000

TRACING OF THE HISTORIC ERIE CANAL



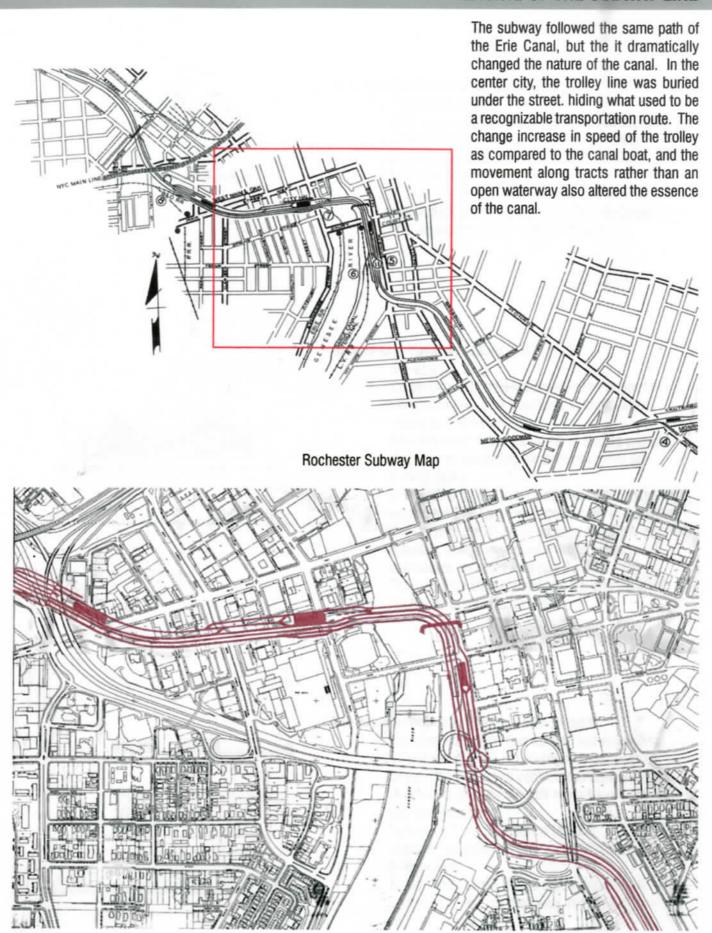
The presence of the Erie Canal is almost lost in the city today. The canal ditch has been covered over, filled in, and built on. The aqueduct is one of the only remnants of the canal left in Rochester. The aquduct is however one of the greatest engineering marvels of the Canal's history.

Location of the Erie Canal on a historic map

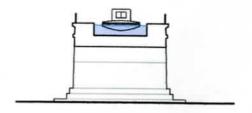


The imprint of the Erie Canal in Rochester today

TRACING OF THE SUBWAY LINE

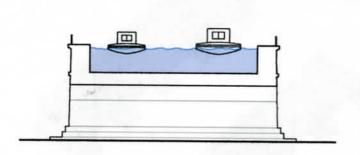


Imprint of the subway in the city today



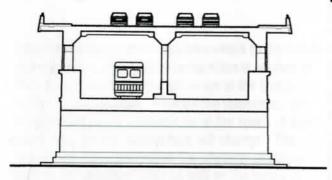
First Erie Canal Aqueduct: 1823-1842

- -17' wide, 4' deep
- Only one-way traffic possible in the narrow width
- Sandstone structure quickly decayed when exposed to water
- Sharp right turn on the east side
- In 1838 the Canal Commission decided to set a new standard dimensions for the Erie Canal.
 This aqueduct proved to be inefficient



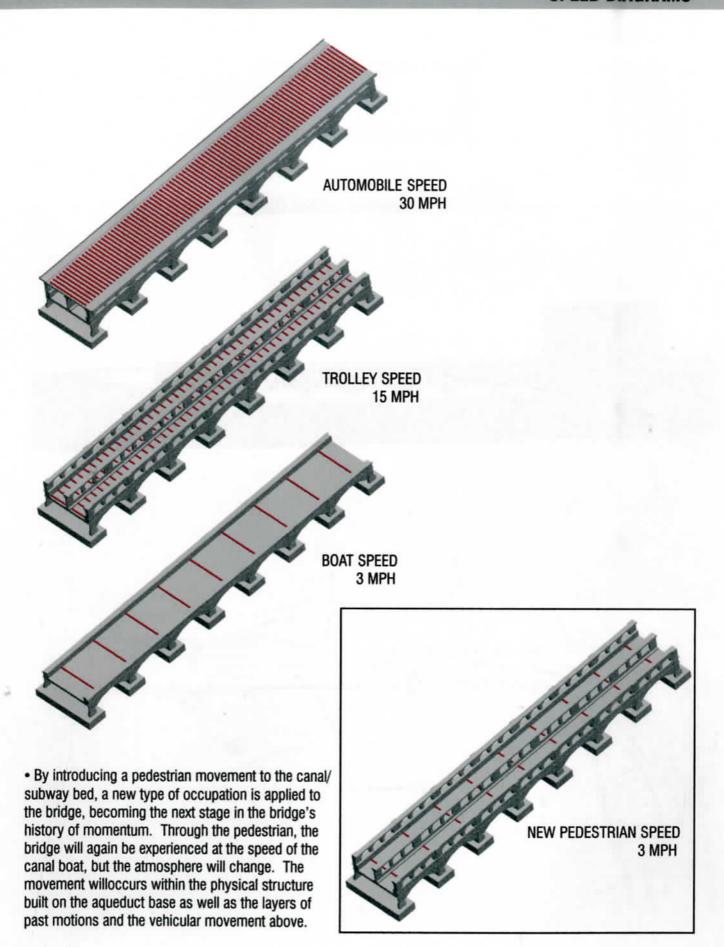
Second Erie Canal Aqueduct: 1842-1920

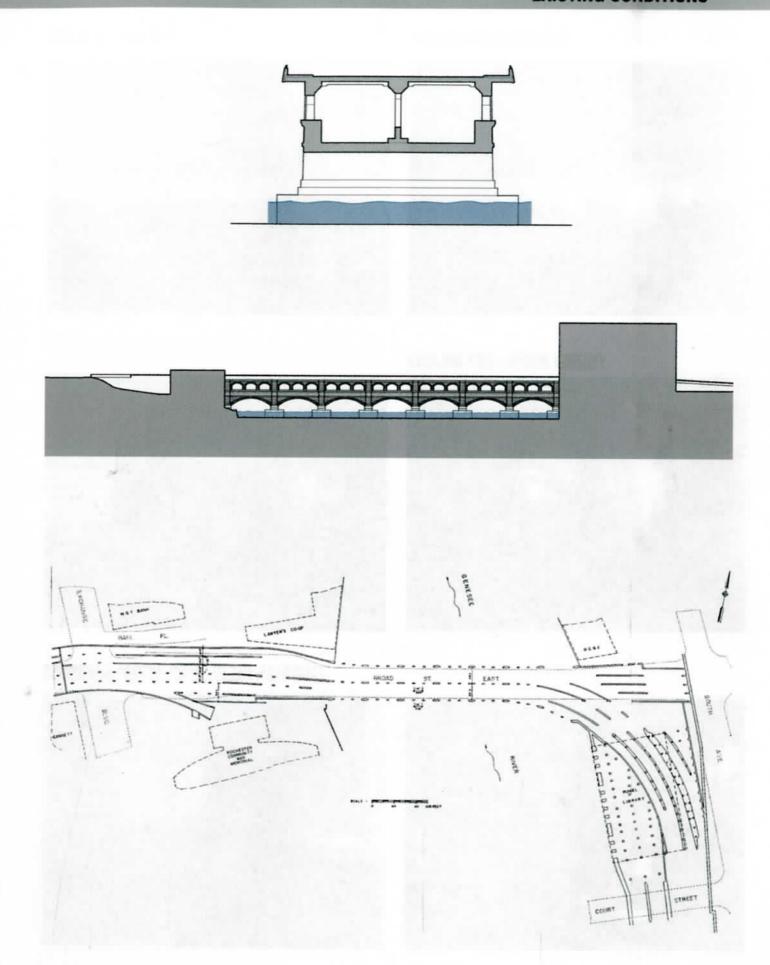
- 45' wide, 7' deep
- Expanded width relieves problem of congestion
- Limestone structure maintains strength when exposed to the elements
- New structure set to the south of the old and at slight angle, alleviating the problems with the turning radius
- In the 1890's the Canal Commission proposes to expand the Erie Canal and move it out of the cities.
 The Canal in the city was causing problems of pollution, delays in vehicular traffic, and unwelcome travelers invading the city.
- The Barge Canal is formed and the Erie Canal in Rochester is dried up in 1920



Subway and Vehicular Bridge: 1923-present

- Concrete superstructure built on top of existing limestone aqueduct to house subway system.
- Broad Street roadway cantilevered past aqueduct structure to provide efficient room for pedestrian and vehicular traffic.
- Subway system abandoned in 1956
- Concrete roadway is replaced in 1972 due to deterioration
- Today Broad Street Bridge serves as a major traffic route in the city, but the canal and subway bed remain vacant





A PICTORIAL SITE DESCRIPTION

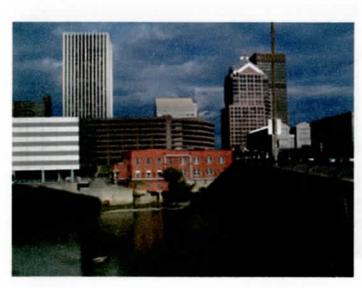
THE BUILDING SITE



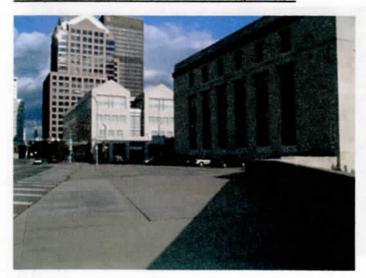
THE AQUEDUCT INTERIOR



COOLING POOL UNDER LIBRARY



PROPOSED ACCESS POINT TO THE AQUEDUCT





VIEW FROM THE LIBRARY



VIEW FROM THE PARK ACROSS THE RIVER



VIEWS FROM THE BUILDING SITE





LIGHTING





CITY ANALYSIS



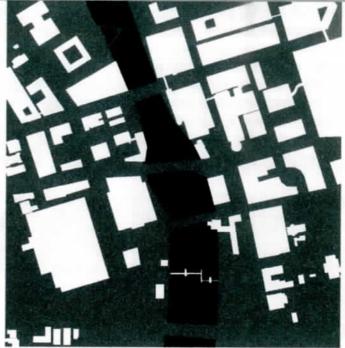
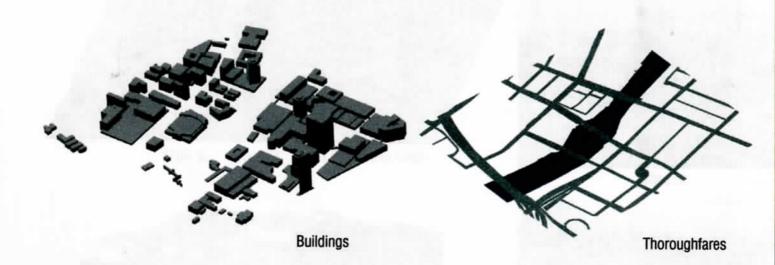
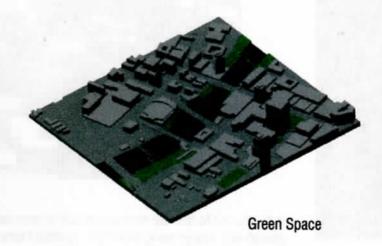
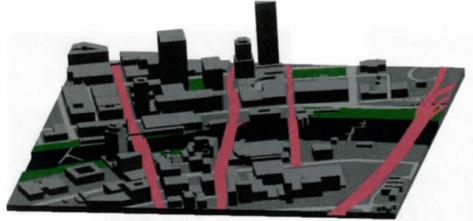


Figure Grounds

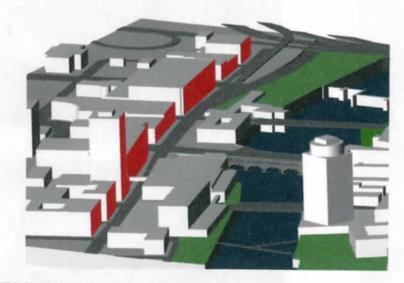




CROSSING THE RIVER



Main St. Broad St. Court St. Inner Loop



THE WATERFRONT

The waterfront of the Genesee river is less dense than the rest of the city. It is generally chracterized by shorter buildings, and more green space. The density of the city past the waterfront forms a wall a buildings, marking an edge.

MAJOR ROADWAYS

The inner loop encloses the center city, physically separating it from the rest of downtown. However, the expressway connects to the major roads, creating a direct route into downtown. The city grid is skewed, following the path of the Genesee River. Main street, one street north of Broad is the only straightstreet that cuts directly across the center of the city.





Broad St.

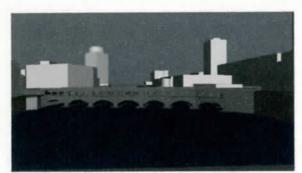


South Ave

VIEWS APPROACHING SITE







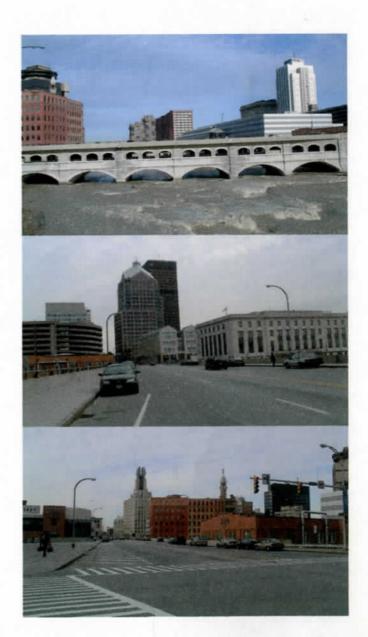
CROSSING THE COURT STREET BRIDGE LOOKING NORTH



CROSSING BRIDGE LOOKING EAST



CROSSING BRIDGE LOOKING WEST



TRANSPORTATION MUSEUM AND CULTURAL CENTER

PART OF AN INFRASTRUCTURAL NETWORK

Places should be considered as spaces which are continually experiencing process which occur through time, processes which are not, and never have been static...It is this crucial contingency of the past on our daily experiences which must be articulated through the museum. (Walsh: 150)

A museum records, and through interpretation, re-records the past. I will investigate how a museum, which typically reduces the past to an element in a display, can actively engage the history it is attempting to represent. It will play an integral role in restoring the Erie Canal aqueduct, and mill building as recognizable elements in the city. The museum should provide the means for a critical engagement with the past.

The Museum

The Transportation Museum is bifurcated into the general history of transportation that is accommodated in the building, and the sited history, which occurs along the path in the aqueduct.

The exhibits will include accurate reproductions, authentic artifacts, informative displays, and places for interactions with the historic conditions. Whether the interactions with exhibits are direct (participatory) or indirect (observed), the encounters occur within an architectural procession that stimulates a cumulative understanding of space and time. Due to the historical artifacts on the site, the museum can become a device that records time through its relationship to the past and present contexts of the site. The concentration will be on the experiential aspects of history possible in a museum so that memories are not only recalled, but can be newly formed through the realization of a sense of place for the museum.

The Infrastructure

The Erie Canal aqueduct is located in the center of downtown Rochester. It provides a sheltered passage connecting the Rochester Convention Center, the Blue Cross Arena, and the Rundel Library. On a larger scale, it connects the hotel district to the business district across the river. The aqueduct will fit into a larger pedestrian network in the city, reviving the movement through the bridge. Essentially, the pedestrian path is the next stage in the history of the aqueduct after waterway and subway. The path however should be more than a corridor; it should be a public space. To create a sense of place in something that people are meant to pass through, there needs to be the opportunity for a pause. This is where the public path will interact with the museum. Places for public gathering will also be allotted for in the bridge, drawing from its connection to major cultural centers in the city. The vertical connections to street level are also importation places along the path because they will give it a recognizable presence for pedestrians and vehicles that cross on top of the bridge. To further link the museum to the city, a bus stop will integrate an active transportation system with the historic. It will link the building to a larger vehicular network that extends beyond the immediate site.

PROGRAM SQUARE FOOTAGE

Possible space available	
Aqueduct	23, 00
Building Site	
Pavilion space next to library (street level)	8,00
Pavilion space next to Blue Cross Arena (street level)	
Tunnel under library (alternate access to bridge)	
	131,00
Public and educational spaces	
Entrance	9,00
Conference entrance	1,00
Auditorium (and support space for 500 people)	5,20
Public movie theater (150 people)	3,00
Museum movie theater (80 people)	1,50
Cafeteria	2,50
Contee Bar	90
Restaurant (2 @ 1,400)	2,80
Museum Shop	3,00
Library	6 00
Banquet Room (300 people)	4,00
Classrooms (4 @ 800 ea.)	3,20
Seminar rooms (2 @ 1,500 ea)	3,00
	45,10
Exhibition Spaces	4,00
Intimate galleries (8 @ 500 ea.)	
Medium galleries (4 @ 1,500 ea.)	6,00
Large galleries (2 @ 3,000 ea.)	6,00
Small theaters (30 people: 2 @ 600 ea.)	1,20 1,20
Interactive children's gallery	18,40
Subway station re-creation (alternate entrance to path)	15,00
Large exhibits accommodated for in the galleries	
Canal boat	800
Trolley	800
Trolley	_ 200
Automobile	500
View of mill 'ruins' and waterwheel	
VIEW OF ITHII TUINS AND WALCO WHICE	3,200
Administration (non-public)	3,200
Conservation lab	2,00
Offices(6 @ 200 ea.)	1,20
Open office space	1,000
Conference rooms (2 @ 500 ea.)	
Employee Lounge	
Collection management room	
Exhibition preparation workshop	2,50
Shipping and receiving	
Storage	12,00
Storage	28,20

Public Support Spaces	
Information	300
Ticket Booth	200
Coatroom	700
Public restrooms_	600
	1,800
Bus Stop	1,500
Parking	6,000
	SUBTOTAL - 84,100
Circulation, Restrooms, and Mechanical spaces (20% of Total)	16,800
	TOTAL - 100,900
Public path and open public space in aqueduct(approximately 50% of space available)	11,500

the state of the s

Exhibition Spaces

The exhibits of the museum occur in, but are not limited to, galleries. People will move through a sequence of galleries that vary in size and sensory quality. The exhibits will consist of informative and interactive displays, authentic artifacts, and accurate reproductions. However, a crucial part of the transportation museum will be the places from which people can view, and then occupy, the actual artifacts on the site. Through the exhibits and along the path, people will be able to interact with true scale reproductions so that they can form a perception of history from a present experience. For example, a canal boat and trolley will be reintroduced to the bridge so that the various histories are presented simultaneously. A water element will also be inserted in to the aqueduct to recall the experiential qualities of the canal through sound, sight, and touch. Under the Rundel Library a deteriorating stair is all that remains of the subway station. By re-creating the station and re-opening the connection to street level, a sense of the space that was once there can be experienced. It will serve as another access point to the pedestrian path, which is the next stage in the transportation history of the bridge.

Public and Educational Spaces

These are spaces enclosed within the building of the museum, but separated from the museum exhibits. They are open to the general public to provide the community with educational opportunities, entertainment facilities, and public meeting spaces.

Entrance

The entrance to the museum and some of the public spaces needs to be a large, organizing place. It should provide the visitor with a sense of orientation and clear circulation opportunities. The entrance contains the ticket and information services for the museum as well as a presentation of the current cultural activities available in the rest of the building. This will also be the first encounter with historic and contemporary architectural representations.

Conference Facilities

Spaces of varied size and form will be provided to hold temporary museum or public activities as well as private conferences and presentations. A separate, more private entrance needs to be provided for these spaces so that access to these facilities can be separated from the museum for use by private parties or use when the museum is not in operation.

Movie Theaters

Two theaters will be contained within the museum. One will be dedicated to showing old films, providing a program of entertainment value for the general public. The other theater will be used to show a museum orientation film, providing visitors with an audio and visual precursor to the exhibits.

Dining Facilities

Multiple dining facilities will be provided in both the museum and the bridge. In the bridge, a restaurant or café could provide a place to stop along the public path.

Library

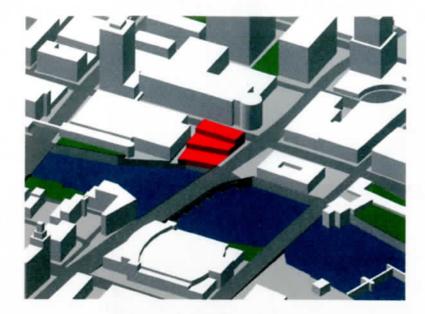
The library will be open to the general public to house a collection dedicated on transportation and Rochester history. Study and a presentation space will be included in the library.

Public Infrastructure

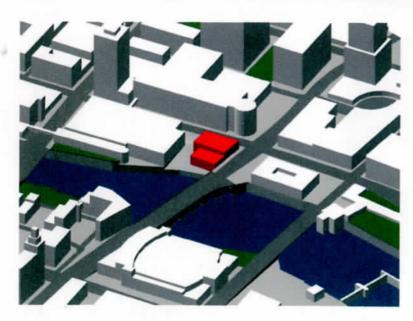
A new bus stop on the South Ave. side of the site will link the museum to the infrastructural network already working in the city and, by bringing the buses into the building, active contemporary transportation will be integrated with the museum. The public pedestrian path in the bridge, consisting of a series of open public spaces, will link to another mode, and speed, of travel.

PUBLIC AND EDUCATIONAL SPACES BANQUET ROOM BANQUET ROOM PUBLIC MOVIE THEATER MUSEUM SHOP EKTRY AUDITORIUM MUSEUM MOVIE THEATER **EXHIBITION SPACE** SUBWAY STATION RE-CREATION REDITIN MEDIUM MEDIUM MEDIUM BALLERY MITMATE GALLERY BALLERY MINATE SMALL THEATER MITMATE INTIMATE MITMATE **ADMINISTRATION** PREP. ROOM COMBERVATION LAB OPEN OFFICE SPACE COLLECTION STORAGE OFFICE **PUBLIC SUPPORT SPACE**

BUILDING ENVELOPE STUDIES







These studies are based on 65,000 SQFT. of the program being housed in the actual building. The volumes were determined based on the nature of the site. The sunken level of the land, the industrial ruins on the site, the waterfront condition, and the existing building heights all influenced the building envelope assessments. The site called for a building several stories high to be above street level so the museum could have a presence in the city. The existing RG&E substation barely rises above the street and therefore lacks a face to the city. The historic mill building was taller so a museum that is at least three stories above grade will recall the past condition. Due to the size of the basement level, and the necessity of integrating the building with the mill foundations, it seemed reasonable to provide an open public space level with the street and on the roof the basement level. This was studied in two of the schemes. Furthermore, these studies compare a building that has a tall side on the water's edge to a building that steps down to the water, reflecting on the decreasing density near the waterfront.

ARTIFACTS, SPACE, AND MOTION



CANAL







SUBWAY





15 MPH

STREET





30 MPH



PATH



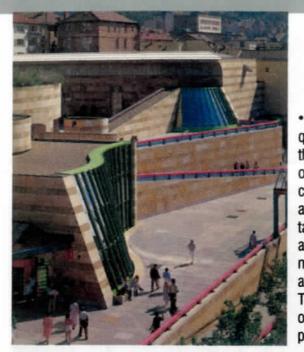


3 MPH

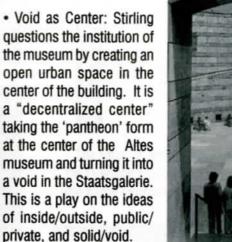


- 1. Neue Staatsgalerie James Stirling
- 2. National Museum of Roman Art Rafael Moneo
- 3. Okanayama Graphic Art Museum Arata Isozaki
- 4. National Gallery in the Palazzo della Pilotta Guido Canali
- 5. The American Folk Art Museum Tod Williams and Billie Tsien
- 6. The J. Paul Getty Museum Richard Meier
- 7. National Air and Space Museum Hellmuth, Obata, and Kassabaun
- 8. Precedents Juxtaposing the Past and Present in Museums
- 9. Bridge as Building Precedents

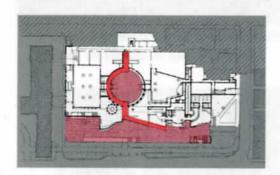
Neue Staatsgalerie

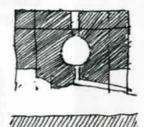


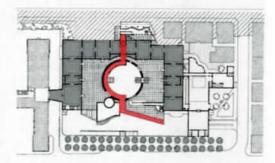
James Stirling and Michael Wilford Stuttgart, Germany; 1977-1982



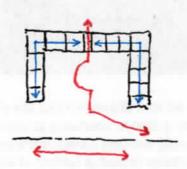




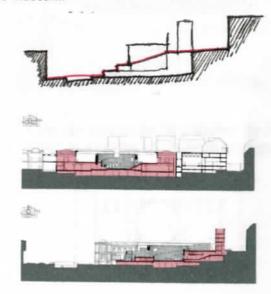




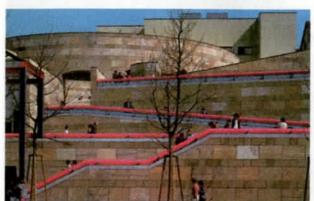
 The plan is essentially axial, but is often compromised by the circulation path. As people move through the building, they are constantly taken on and off axis so that, along the path of ordered spaces, the building is understood as both monumental and incidental.



 Stirling connects two levels of the city, mediating a change in grade, by bringing the public path through the museum.







 A circulation network is established, creating platforms on the path to see and be seen.

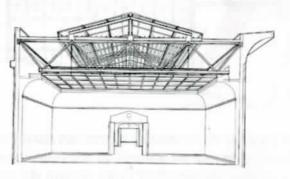


 The wall as a ruin reveals both the idea of museum as a container of history and the new construction method that uses stone as a thin veneer in contrast to historic construction techniques. The only real stone in the wall are those resting on the ground. Much like the existing museum, the Neue Staatsgalerie lacks a facade. Rather, it is a landscape of volumes opening up to the street and the park beyond. The 'facade' of the building can therefore be understood as the row of trees between the street and the building or even the building facade across the street.

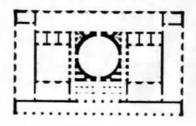


 The form of Stirling's extension to the museum copies the U-shaped layout of the existing museum, keeping the same circulation system of the enfilade galleries.





 The plan imitates the Altes Museum by Schinkel (1843) as a reference to museum typology.

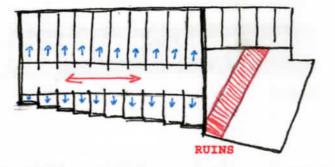


National Museum of Roman Art

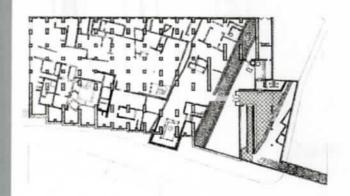
Rafael Moneo Merida, Spain 1985



 The museum becomes an artifact itself, rather than a neutral container, by turning history and context into form.



 It reveals the contrast between the old ruins and the new construction by imposing the skewed grid of the new city over the grid of the Roman city, creating a backdrop for the ruins.

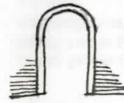








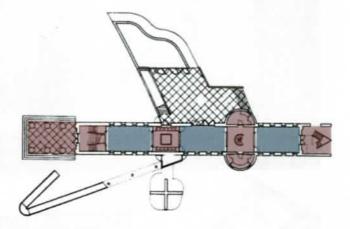
 Formally, a 'nave' space, defined by a series of Roman arches in the heavy bearing walls cuts through the building as a void. Cross aisles intersect the nave forming exhibit spaces off the main axis and an overall organizing grid.



 Recalls the past with icons of Roman construction: The Roman arch and Roman bricks

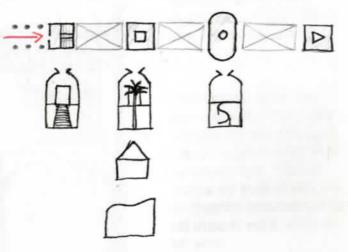
 Circulation cuts perpendicularly through the bearing walls made of Roman brick so that there is constant interaction with the building.

Arata Isozaki Nishiwaki, Japan 1985



Plan





Okanayama Graphic Art Museum



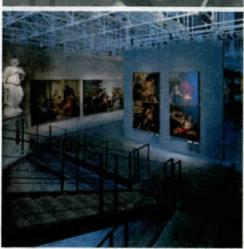


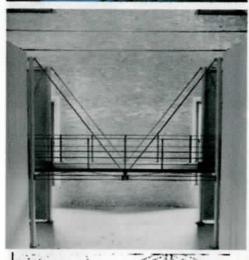
- · The museum is composed of a series of figurative spaces. The halls take on the form of the exhibits' themes while the galleries themselves are neutral containers. The alternating spaces create a formal architectural procession.
- · The image of the building is a metaphor that imitates a series of railroad cars. It implies that new 'wagon' galleries can be added in the future.
- · It is designed for a permanent collection rather than temporary exhibit.

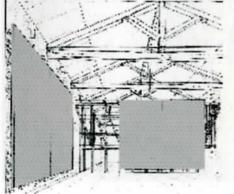
National Gallery in the Palazzo della Pilotta

Guido Canali: Parma, Italy: 1970-1986





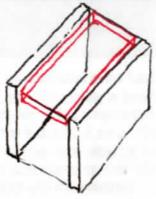




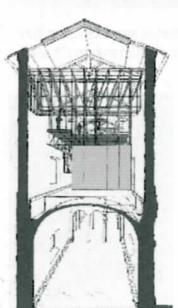








- The new museum is housed in a historic building. The separation between the historic container and the intervention of the new museum is made through juxtaposing the past and present construction methods as well as the physical separation between the exhibit structures and the historic walls.
- The ceiling has been filled with a metallic structure to support the exhibits separately from the original structure. The new



structure, museum collections, and historic building are contrasted so that each is exposed as a distinct element critical to the museum.

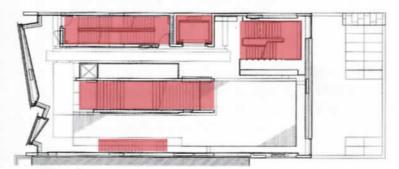
 Footbridges, ramps and platforms were constructed to articulate the path and separate the museum visitor from the historic floor. The footbridges are made of steel and are therefore juxtaposed to the old museum walls, which are left alone.

The American Folk Art Museum

Tod Williams and Billie Tsien New York, New York: 1997



• The materials of construction are representative of the hand-made process associated with folk art. The building is therefore a formal expression of the art it contains. It is a construction based on uniquely made pieces rather than a kit of parts. The facade is made of individually molded steel panels and the floors are made of polished concrete with large aggregate, both taking advantage of the originality associated with imperfections.

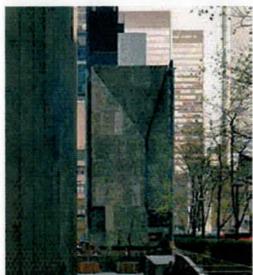


 Half of the floor plan is dedicated to vertical circulation. The variety of possible routes allows for unimpeded movement and a series of diverse paths.





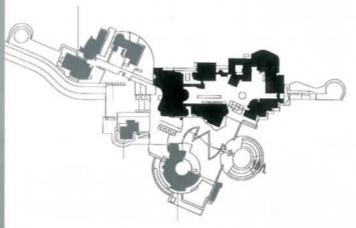




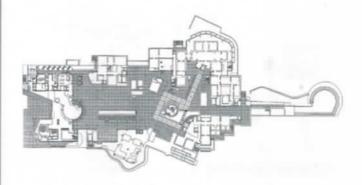


The J. Paul Getty Museum at the Getty Center

Richard Meier Los Angeles, California 1997



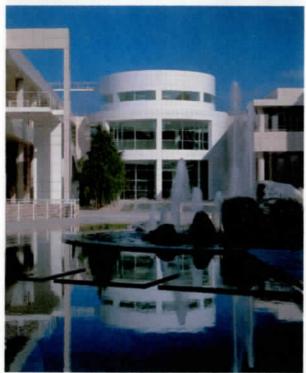
 The building is tied to the rest of the complex through major site lines.



The plan is based on a modular dimension.
 The galleries can contract or expand, and stand alone or be grouped together as long as they occur within the grid established.







 The circular lobby provides visual orientation for the building.



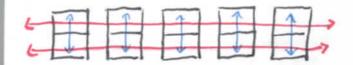
 Distinct experiences are created with varied light quality, spatial forms, and framed views.



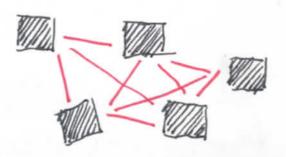




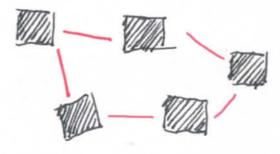
 The plan is made of five, two-story pavilions with movement possible horizontally, between the pavilions, or vertically, within a single pavilion.
 The circulation system is therefore based on an informal procession. Varied routes of travel create a museum full of surprise and discovery.



· Vertical circulation



· Unrestricted circulation



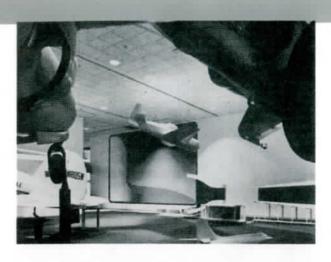
· Peripheral circulation

National Air and Space Museum

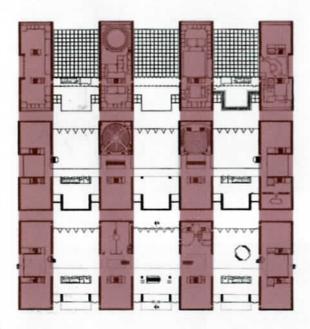
Hellmuth, Obata, and Kassabaun Washington, DC: 1975

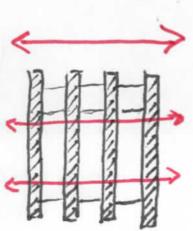


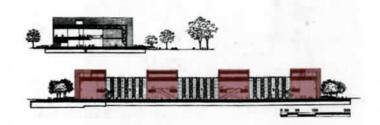
 The building is a formal study of solid/void with the volume of the museum alternating between solid, opaque bars and transparent walls enclosing the voids between the bars.



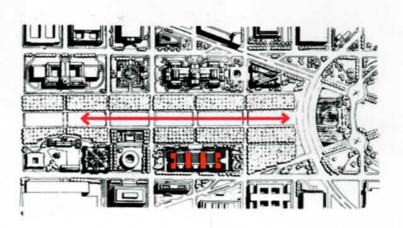
 This museum is an example of how to house large artifacts in a building without creating one large warehouse.



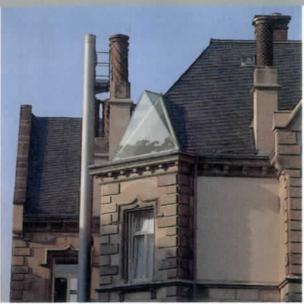




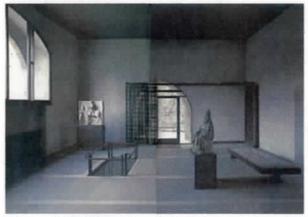




Juxtaposing the Past and Present in Museums



German Postal Museum, Gunter Behnisch Frankfurt, Germany: 1990



Museo di Castelvecchio, Carlo Scarpa Verona, Italy : 1956



Pyramide du Louvre Paris, France : 1989 I.M. Pei







Sackler Wing of the Metropolitan Museum of Art New York: Kevin Roche and John Dinkeloo

Bridge as Building Precedents



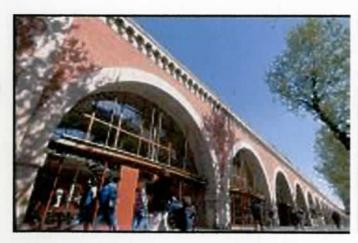
Fargo-Moorhead Cultural Bridge Michale Graves



Pulteney Bridge Bath, England



Ponte Vecchio Florence, Italy



Le Viaduc Des Arts Paris, France



Rialto Bridge Venice, Italy

Analogy of Representation and Reproduction

Based on a description in "The Work of Art in the Age of Mechanical Reproduction" by Walter Benjamin, I found it possible to make an analogy between the film making process as an act of reproduction and the museum as a venue for representations. Both the camera and the museum are tools for the presentation of something through a filter, whether that filter is the camera lens or the contemporary building.

A film presents a completely controlled viewpoint that can expose the spectator to an experience which is separated from a specific time and place. It is a composite of many times and places put together as scenes in a movie, or in the case of a museum, as exhibits. Scenes in a movie are fragmented and disjunctive, much like a person's memory. It is the job of the editor to put the scenes in a comprehensible order and it is the job of the museum to present history as an understandable whole.

The camera allows concepts of place to open up and even be disregarded. The camera is an *intervention* that reveals only part of the story depending on how the scene is shot. By zooming in or out, accelerating or decelerating, interrupting or keeping time and space consistent, and focusing or un-focusing, the camera controls how the scene is experienced by the viewer. It should be the job of the museum to focus the visitors experience and understanding of the past through the present context.

(Section XIII)

History and Memory

- Memories can either be recalled from a personal experience, or formed based on the representation of another's experience. This alludes to the difference between a personal memory and a collective memory because a collective memory is the memory formed from personal experiences, recorded histories, and cultural conceptions.
- The use of boundary, path, and place can give meaning to time in space by producing events that spark memory
- History is an ever-changing continuum...Memories are snapshots of discreet moments in the past, but even memory cannot be static.

Movement Through Space

- A path is a journey of encounters, and interruptions that reveals a narrative of time, disjunctive in nature
- Planned procession vs. the act of meandering Explore how the difference in the experience of movement can alter how history is discovered/revealed.:
- o Circumstantial vs. Planned act of remembering
- Movement (time) vs. Distance covered (space) The journey (experience) is anchored in a space/time context
- Paths mix and become blurred which leads to a questioning of space/time, inside/outside, and public/ private.
- Bridge as transition: Study of how a path/sequence works in both directions: A series of discreet moments to form a whole.
- A sense of place must be established in the bridge which is defined by the movement through it
- A bridge without motion lacks function = use the museum to reintroduce movement

"Memory is context dependent" - Gaynor Kavanagh

- Palimpsest (n.) an object, place, or area that reflects its history (markings left as residue) multiple layers of memories connected to a place (old and new)
- A space for memory provides a place for individual and collective memories to mix
- o Allow the present context to fill in the blanks and make the histories relevant

Space and time

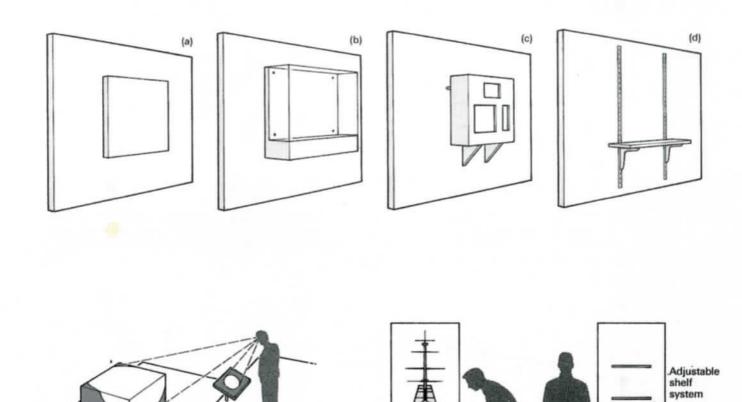
- Space is a field for marking time
- The compression and expansion of space, as well as of time, can reveal conditions otherwise hidden or forgotten
- Juxtapositions in time and space allow surprise associations for the recollection of memories
- Making histories visible through both exposure and obscurity

History and Museums

- "...a case for history in museums has to be developed from an awareness that history museums are
 one of the means through which people engage with issues and ideas about themselves and their past."
 -Gaynor Kavanagh
- Museum as a connection between the formal, given history and the personal and collective memories or experiences associated with that history
- The collective 'memory' may be formed in the present through collective interactions with the given history...a collective interpretation of that history

The Museum as a Place for People (not just artifacts)

- "A preoccupation with objects leads inevitable to acceptance of a sedentary role for the city museum because their survival (accidental), and their selection (passive or subjective...), only allows us to go so far." (Walsh, p134)
- It collects the "debris of human experience" and grounds it in the context of site and time to give it meaning beyond the collection of random artifacts
- The typical museum is related to the decay of displaced items, but I want to link the past to the present through personal and collective experiences with sited artifacts, accurate reproductions, interactive exhibits, and views.
- Situate the past in the present as a place for temporal experience



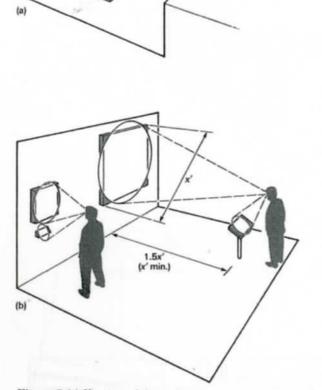


Figure 7.14 Viewing exhibits and interpretive material – reading distances: (a) Visual size of exhibit and interpretive image/illustration to promote clear communication. (b) Reading works of art and interpretive information

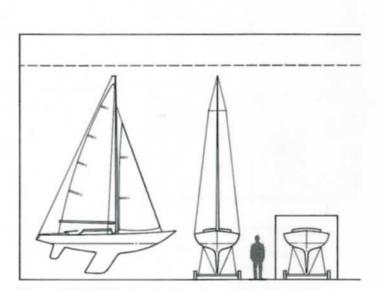
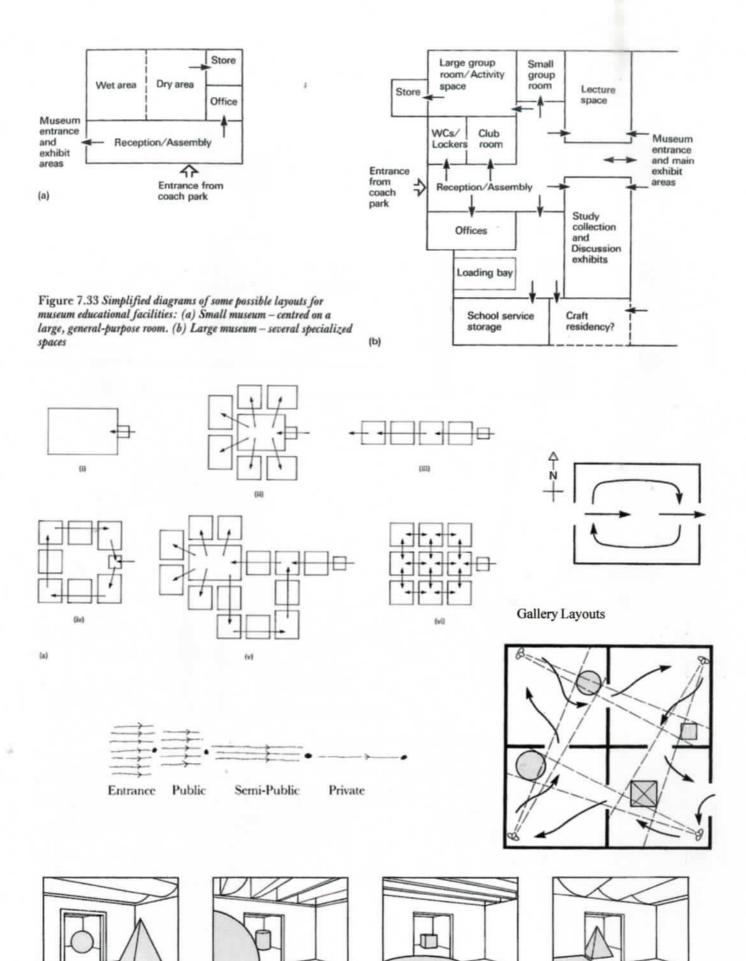
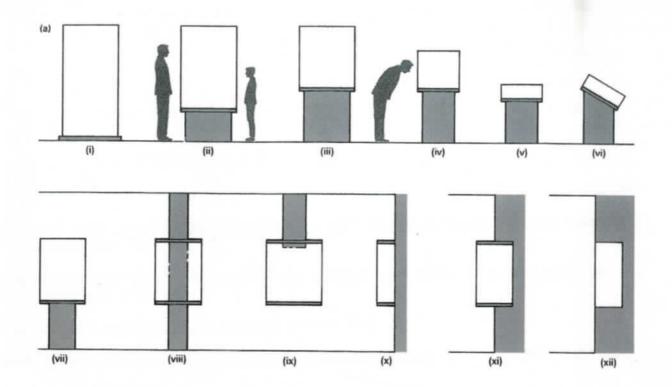
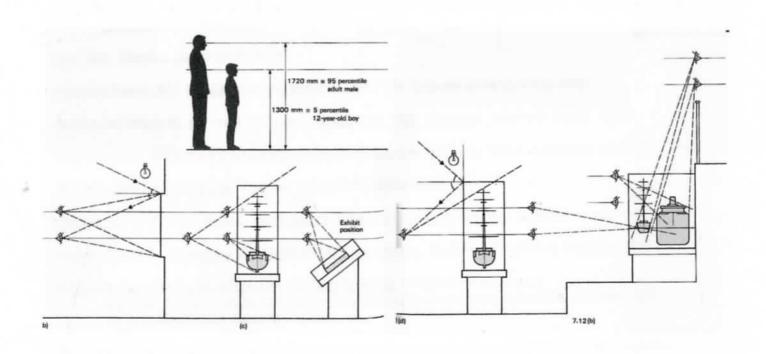


Figure 7.17 Wall/ceiling height and access size allowing for suspended services/ceiling and handling equipment







- Barnes, Joseph W. "Historic Broad Street Bridge and the Erie Canal Sesquicentennial: 1825-1975." Rochester History. July 1975.
- Benjamin, Walter. "The Work of Art in the Age of Mechanical Reproduction." <u>Illuminations</u>. New York: Schocken Books, 1968.
- Bray, Paul M. "The New Urbanism: Celebrating the City." Places. Summer 1993: 56-67.
- Brolin, Brent C. Architecture in Context; Fitting New Buildings with Old. New York: Van Nostrand Reinhold Company, 1980.
- Canter, David, and Linda Groat. Readings in Environmental Psychology: Giving Places Meaning. New York: Academic Press Limited, 1995.
- Crang, Mike, and Penny S Travlou. "The City and Topologies of Memory." Environment and Planning D: Society and Space. 2001, v. 19: p161-177.
- Crimp, Douglas. On the Museum's Ruins. Cambridge: MIT Press, 1993.
- Darragh, Joan and James S. Snyder. <u>Museum Design; Planning and Building for Art</u>. New York: Oxford University Press, 1993.
- DeChira, Joseph. Time Saver Standards for Building Types. New York: McGraw-Hill, 1973.
- Eggener, Keith L. "Placing Resistance: A Critique of Critical Regionalism." <u>Journal of Architectural Education</u> May 2002: 228-237.
- Findley, Lisa. "Paths: The Nature of Linear Public Space." Places. Summer 1993: 72-75
- Frampton, Kenneth. "Towards a Critical Regionalism: Six Points for an Architecture of Resistance." The Anti-Aesthetic: Essays on Postmodern Culture. Seattle: Bay Press, 1983.
- Hack, Tom. Interview. September 24, 2003.
- Kavanagh, Gaynor (ed.) <u>Making Histories in Museums</u>. New York: Leicester University Press: 1996.
- Lampugnani, Vittorio M., and Angeli Sachs (ed.) Museums for a New Millennium. New York: Prestel, 1999.
- Matthews, Geoff. Museums and Art Galleries, A Design and Development Guide. Oxford: Butterworth Architecture, 1991.
- Montaner, Josep. New Museums. New York: Princeton Architectural Press, 1990.
- Montaner, Josep and Jordi Oliveras. The Museum's of the Last Generation. New York: St. Martin's Press, 1986.
- Ramsey, Charles G. Architectural Graphic Standards, Student Edition. New York: John Wiley & Sons, Inc., 2000.
- Rep. Louise Slaughter Pledges Support for Erie Canal Aqueduct. Congresswoman Louise M. Slaughter. August 12, 2003. < http://www.slaughter.house.gov/NR/exeres/B3CF8475-28CD-4ABC-9EC7-68C01E06BA93.htm> September 9, 2003.
- Rochester 2010: The Renaissance. [Online] Available < http://www.ci.rochester.ny.us/2010/about.htm> September 13, 2003.
- Steele, James (ed.) Museum Builders. London: Academy Editions, 1994.

Walsh, Kevin. <u>The Representation of the Past: Museums and Heritage in the Post-modern World</u>. New York: Routledge, 1992.

Wampler, Jan. "The Space Between." Places. Summer 1993: 68-71.

Warke, Val K. "Prolegomena to a Rethinking of Context in Architecture." The Cornell Journal of Architecture. 1996: 8-15

William Rawn Associates, Architects, Inc., LaBella Associates, P.C., and Real Estate Enterprises, Inc. "Reuse Feasibility Study for the Broad Street Aqueduct." September 1994.