# TECHNICAL INFORMATION

**Percent for Art Program, City Of New Haven**
**East Rock School**

ARTIST'S NAME: Robert Perless
37 Langhorne Lane
Greenwich, CT 06831
robert@perless,com

1. **Include information on the materials used for the work of art, such as durability, and method(s) of installation.**

The sculpture will be constructed of structurally welded aluminum. It will be clad with holographic material. The material is an aluminum that has been [photoengraved with 120,000 lines per inch and so has the ability to break white light down into the spectrum and project the colors throughout the environment. The composition will be supported by stainless steel precision ball bearings and the shaft will be a 2" round billet of stainlesss steel and is structurally rated to support far more weight and force than it will be subjected to in this composition.

The wind interactive element will be supported by a trapezoidal welded construction of either aluminum or stainless steel. The movable element will be at least 8' high so it will not physically interact with the viewers.

2. **Additionally, is the design and construction of the building or exterior site sufficient to accommodate your artwork and installation method? If not, list the structural changes and modifications required, and whether or not you have you discussed these modifications with the project architect and engineer?**

The sculpture will not impinge on the architecture in any way.

A simple concrete foundation with a fixture I will supply will support the sculpture. I will site it and estimate the amount of concrete necessary. I will contract with your builder to pour the foundation for the sculpture so that it falls in his normal work process. I will have a representative on site to make sure the fixture is placed properly and the foundation is level.

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# ESTIMATED TIMELINE

**Percent for Art Program, City Of New Haven**
**East Rock School**

**ARTIST'S NAME:** Robert Perless

1. **Estimate in months and/or weeks how long it will take you to complete each of the following productions stages in creating the WORK(S) OF ART.**

a. Final Designs/Drawings: No additional time is necessary.The scale model I am submitting for this project will serve as the basis of the design drawings. The full scale sculpture will be built from the specifications visualized in the model.

b. Fabrication: One year from the date of the signing of the contract and the initial deposit.

c. Installation: I will supply the contractor a fixture that will support the sculpture. I will site it and estimate the amount of concrete necessary to support the sculpture. I will contract with your builder to pour the foundation for the sculpture so that it falls in his normal work process. I will have a representative on site to make sure the fixture is placed properly and the foundation is level.

After the concrete cures, it will take approximately a half day to install the sculpture on site.

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# ESTIMATED BUDGET

**Percent for Art Program, City Of New Haven**
**East Rock School**

**ARTIST'S NAME:**

1. **Please complete the following budget worksheet with expense breakdown.**

a) Artist's Fee: _____

b) Materials: $18,000

Labor includes the catagories of artist fee and studio expenses and labor to build the sculpture.

c) Fabrication Fee: $28,000

d) Travel to site: _____

e) Transportation: Transportation and truck crane $1,500

f) Installation (including site preparation): Foundation $800

g) Lighting, framing or other "proper presentation" costs: _____

h) Studio and Operation costs: _____

i) Insurance: $1,500

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f) Installation (including site preparation): Foundation $800

g) Lighting, framing or other "proper presentation" costs: _____

h) Studio and Operation costs: _____

i) Insurance: $1,500

j) Photographic Documentation: $200

k) Public Report: _____

l) Identification Plaque: part of pylon

m) Other: _____

**Total:** $50,000

***Please understand that your budget must include all of the items listed above. See Budget Explanation Sheet for items: I, J, K, L, M***

j) Photographic Documentation: $200

k) Public Report: _____

l) Identification Plaque: part of pylon

m) Other: _____

**Total:** $50,000

***Please understand that your budget must include all of the items listed above. See Budget Explanation Sheet for items: I, J, K, L, M***

**PERCENTAGE FOR ART PROGRAM**
**DEPARTMENT OF CULTURAL AFFAIRS**
**CITY OF NEW HAVEN**
**165 CHURCH STREET**
**NEW HAVEN, CT 06510**

## Artist's Proposal

Percentage for Art Program, City of New Haven
East Rock Magnet School

**Artist's Name:** *Jo Yarrington*

**Title:** *Lumina*

1. Description of your proposed works including materials & dimensions.

*The proposed artwork for East Rock Magnet School is to be incorporated into its architecture and is comprised of a series of components activated by natural and artificial light. In response to the school's Mission and Vision statements shared in a conversation with East Rock Principal, Dr. Michael Conte, the interdisciplinary and multi-sited "Lumina" aims to highlight community and collaboration through the interfacing of science and art. The creation of optical mediation of a variety of interior and exterior spaces gives viewers an opportunity to experience, enjoy and discuss ever changing environments throughout the school.*

*"Lumina", the plural of lumen which is a measure of the power of light perceived by the human eye, explores the nature of vision, perception, art and physics in a series of imaginary and altered environments. Panels #1 and #2 articulate distinct components of the project which is located throughout the building. By experiencing a cadenced mix of transparent photographic images of the surrounding landscapes, glass panels based on the color structure of enlarged pixels of those landscapes, intimate dioramas, glass rondelles and a series of viewing lenses both large and small, viewers are asked to ponder and discuss what they are seeing and how the interplay of light and image changes the spaces both in and outside the school.*

*The first rendering, Panel #1, focuses on the Grand Facade and describes how the building will be perceived at night, suggesting in its play between interior and exterior environments a call to question the familiar. The second and third renderings, shown on Panel #2, articulate two additional spaces in the building in which artwork will be housed. Work introduced in the Entrance/Corridor is presented in the top right hand portion of the board where images with hands and a wall of small dioramas directly across from it suggest a dissection or a reexamining of the familiar. The third rendering, that of the Auditorium interior situated on the left hand side of Panel #2, continues the language of the photographic and color panels introduced in the Grand Façade, but in addition introduces glass rondelles, with all three of these elements revealing through malleable interior projections throughout the day, latent qualities of the architectural site.*

**Percentage for Art Program, City of New Haven**
**East Rock School**

**Artist's Name:** *Jo Yarrington*

**Title:** *Lumina*

2. Additional information on design intent and public art philosophy

*This project specifically parallels the emphasis and visual direction of my primary studio practice, as well as my own general focus and beliefs. My interest in light, ritual, journey, and passage, the linking of interior sites with exterior space, a poetic interweaving of nature and culture, and a lifelong passion for teaching and learning clearly aligns with the actual and metaphoric resonances of East Rock Magnet School.*

*When first exploring this project and because of my familiarity with the area, I responded to the East Rock Magnet School's geographic location, the majestic East Rock cliffs giving evidence of the volcanic turbulence that was instrument in the formation of the land and major waterways that provided a very powerful series of arteries offering the resources for a long and lively history of manufacturing in the area.*

*I was very interested in the East Rock Magnet School's vision and mission statements and the emphasis on academic rigor, encouraging dialogue and a zest for life-long learning. I was intrigued with the school's and students' close connection to the surrounding neighborhoods. In addition, I responded to the school's vision for the future and their part in shaping it, as evidenced by their pedagogical focus on collaboration and community.*

*To mirror the energy and movement suggested by both the natural landscape and the academic environment of East Rock Magnet School, I structured the proposed artwork to be incorporated onto and in the new building. The artwork is to be experienced as a journey. Translucent photographic images, intimate dioramas, and glass lenses are to be interspersed throughout the new building's interior and exterior windows, primarily concentrated in the auditorium, front façade, and entrance corridor. During the day, interior images on the windows would concurrently mediate perception of the landscape while casting slowly changing interior projections. During the evening, these same images, backlit from inside, would define the building's structure, giving a soft jewel-like quality to the images. All of the work's kinetic components would question the familiar, speak to the passage of time, and alert viewers that change was imminent.*

***Location of and details on art components are as follows:***

*Grand Façade*
*Entrance/Corridor*
*Auditorium/Gymnasium*

***Exterior and façade components (corresponding PP and presentation boards)***

- *Varying sized Lintec film, from 87.75" x 73.5" to 33.5" x 33", (photo-archival transparent film) UV coated, laminated upon tempered glass to be placed intermittently in the Grand Facade, auditorium/cafeteria and corridor/entrance (note presentation board of architectural renderings). Archivally-sound photographic image/glass laminate has been developed by Duggal Visual Solutions, an internationally recognized imaging company. The process, successful in my other*

*permanent window installations, will be used throughout the East Rock Magnet School project. The Lintec film laminates are lightweight and when fabricated as a complete insular glass unit will not compromise the pre-determined visual and structural integrity of the other existing clear glass window units.*

- *Varying sized colored laminate ontempered glass, 85.5" x 109" to 33.75" x 33", as noted in Project Boards #1 and #2. The color panels are archivally-sound laminates on glass that have been developed by Bendheim Corporation, a nationally recognized architectural glass company.*
- *3 fabricated glass rondelles with a diameter of 20" to be inserted into existing glass window through cold cutting and the use of black lead ribbon. One of the rondelles will have a heat-infused photo-archival image corresponding to its surrounding window and will be located in the Grand Façade area. The two other rondelles will be inserted into the auditorium windows.*
- *1 auditorium window, as noted, will have 3 small lens inserted into pre-cut holes and secured with lead ribbon*

***Interior component (corresponding PP images and presentation boards)***

- *Using lens ranging from 2 – 5 inches, peep hole dioramas incorporating glass orbs, photographic Duratrans (translucent photographic film) and mirrors will be constructed to fit in a wall unit to be located at the base of the stairs in the entrance hallway directly across from the gymnasium (see Project Board #2).*

## Technical Information

Percentage for Art Program, City of New Haven
East Rock School

**Artist's Name:** *Jo Yarrington*

**Title:** *Lumina*

1. Technical information

Include information on materials used for this work of art such as durability, and method(s) of installation.

*MATERIALS AND INSTALLATION:*

*Varying sized Lintec film, from 87.75" x 73.5" to 33.5" x 33", (photo-archival transparent film) UV coated, laminated upon tempered glass to be placed intermittently in the Grand Facade, auditorium/cafeteria and corridor/entrance (note presentation board of architectural renderings). Fabrication company – Duggal Color Products and Visual Solutions*

- *This film will be incorporated onto tempered glass using a laminate method forming part of a complete tempered glass unit in accordance with the architectural look of the pre-determined clear windows for the new building. The laminate will be in keeping with the design and structural integrity already in place, and will improve solar performance of the glass by cutting down on solar gain (an eco-friendly solution to the exterior heat transmissions from an all glass exterior wall). This laminating method will keep the images colorfast and maintenance friendly.*

*Varying sized colored laminate on tempered glass, 85.5" x 109" to 33.75" x 33", (panel is archivally-sound ) color fast, UV coated laminate on glass that has been developed by Bendheim Corporation, a nationally recognized architectural glass company.*

- *This film will be incorporated onto tempered glass using a laminate method forming part of a complete tempered glass unit in accordance with the architectural look of the pre-determined clear windows for the new building. The laminate will be in keeping with the design and structural integrity already in place, and will improve solar performance of the glass by cutting down on solar gain (an eco-friendly solution to the exterior heat transmissions from an all glass exterior wall). This laminating method will keep the images colorfast and maintenance friendly. Bednheim will be doing the laminating procedure for both the Lintec and color panels.**

*Varying size glass orbs, rondelles and dioramas to be modified and/or fabricated with assistants at Lucere Studios, my production company where I work with assistants to develop and fabricate work for site projects. Since the work is architecturally integrated, it will be produced and fabricated beforehand and installed based on the proposed building schedule, in collaboration with Newman Architects.*

** If another architectural glass company is being sub-contracted for the windows, I can work with that company to in using laminate materials, pending further discussion with the selection panel and Newman Architects.*

2. Is the design and construction of the building or exterior site sufficient to accommodate your artwork sand installation method?

   *Yes, the design and construction of the building is sufficient to accommodate the proposed artwork.*

***BIOGRAPHIES***

*FABRICATORS AND CONSULTANTS:*

*Jose Vargas, Creative Consultant, Production Director, Duggal Visual Solutions, NY*
*In his role as Creative Consultant and Production Director at Duggal, Jose Vargas has worked with many internationally known visual artists who have redefined photographic imagery in 21st Century terms, such as Cindy Sherman, Alfredo Jaar, Joseph Kosuth, and Andre Serrano. The forty year history of Duggal is one of innovation. Jose's experience with these artists and in working with me on other projects over the past eleven years has led to a lively variety of technical and conceptual innovations in the integration of my photographic imagery within architectural spaces.*

*As the world's leading Image Makers. Duggal Color Projects and Visual Solutions has been featured on Dateline (NBC), Building America TV (CBS), How to Succeed in Business (CNBC), 20/20 (ABC) and dozens of newspaper and magazine articles worldwide.*

*Brian Ripel, architect and founder, RSVP Architectural Studio, NY, consultant on project*
*Brian Ripel, is the principal and founder of RSVP Architecture Studio, an emerging architectural practice located New York. Brian is a registered architect in New York State and is certified with the National Council of Architectural Registration Boards. Prior to forming RSVP Studio, Brian was a Senior Associate with TEK Architects (formerly Thanhauser and Esterson Architects) in New York City. He received his Master of Science in Advanced Architectural Design from Columbia University and his Bachelor of Architecture from Pratt Institute. His work in collaboration with the artist Jean Shin has been exhibited and commissioned internationally. In addition to his professional practice, Brian is an Adjunct Professor at Vassar College in the Urban Studies program and a Visiting Instructor at Pratt Institute where he also coordinates the Architectural Media and Communications program in the undergraduate architecture program.*

*Marty Reyes, Consultant, Bendheim Corporate, Passaic, NJ (Chris Thornhill, CT, consultant)*
***Bendheim Mission Statement:***
*"Bendheim recognizes environmentally-friendly manufacturing practices as a necessity for building and securing our sustainable future. These practices also provide our employees with a safe, comfortable work environment, and are an added value to our clients and the community.*

*Our efforts include substantial investment in advanced green manufacturing processes throughout our processing facilities, as well as building partnerships with glass manufacturers demonstrating commitment to the environment through recycling and clean production practices.*

*Bendheim is proud to be working with responsible glass manufacturers. Among our principal partners for many decades is the Glasfabrik Lamberts of Germany, the largest privately held cast glass factory in Europe. Lamberts produces a wide range of glass products exclusively for Bendheim in North America, including Lamberts Channel Glass and a variety of patterned architectural glasses. Lamberts' deep commitment to the environment is evident throughout their one million+ square foot manufacturing facility. Incorporating specialized sorting and screening systems, Lamberts utilizes a large percentage, approximately 40%, of post-consumer glass recycled from the municipal waste stream. Lamberts' advanced oxygen-fueled cast glass furnace is the only one of its kind in Europe. The ultra-clean-burning oxygen-fuel mix reduces nitrogen oxide emissions by a factor of 5 when compared to conventional air-fuel-burning furnaces. Lamberts' specialized cooling ponds contain grass-eating carp, eliminating the need for chemical algaecides. A sophisticated system of electrical filters reduces particulates in waste gasses generated by the glass melting process. The resulting emissions are substantially below strict air quality regulations.*

*Bendheim's commitment to the environment continues through the carefully selected, advanced manufacturing processes and machines used in our New Jersey production facility. Bendheim employs a highly energy-efficient tempering oven. Unlike most other tempering equipment used by domestic and foreign glass manufacturers, its advanced oscillating drive system does not require the use of sulfur dioxide ($SO_2$). $SO_2$ emissions are known to produce acid rain, and direct exposure to the gas may cause permanent pulmonary damage and other health problems. Specialized noise-reduction housing surrounds the cooling area of Bendheim's tempering oven minimizing sound pollution and providing a community-friendly work environment. Our lamination line generates environmentally-safe security glasses. Our paint process produces thousands of feet of color coated glass per month and utilizes specialty paints minimizing VOC emissions, resulting in an environmentally-friendly and safe, 100% VOC-free product. Packing methods at Bendheim are also carefully monitored to ensure maximum utilization of recycled materials. From start to finish, Bendheim ensures the foremost environmentally-friendly production of glass."*

## Estimated Timeline

Percentage for Art Program, City of New Haven
East Rock School

**Artist's Name:** *Jo Yarrington*

*Because of the multi-dimensional nature of the components of this project, the production and installation of the work will be in direct coordination with the architects, the construction schedule, and East Rock Magnet School development committee.*

1. Estimate of how long it will take to complete each of the following production stages in creating the WORKS OF ART.

   a. Final Designs/Drawing _____ *3 – 4 weeks* _____

   b. Fabrication: _____*5 – 6 weeks*_____

   c. Installation: ___*10 days to 2 weeks (integrated with installation of windows and wall)*___

## Estimated Budget

Percentage for Art Program, City of New Haven
East Rock School

**Artist's Name:** *Jo Yarrington*

| | | | |
|---|---|---|---|
| a) | Artist's Fee (approximately 12 %) | $ | *6,020* |
| b) | Materials/Fabrication/Shipping | | |
| | *Duggals (materials, Lentick fabrication)* | | |
| | *Grand Façade Images* | | |
| | *85.5X109* | | |
| | *85.5X33* | | |
| | *33.75X149 (2)* | | |
| | *33.75X109 (4)* | | |
| | *33.75X33 (2)* | | |
| | *29.5X109* | | |
| | *Corridor Images* | | |
| | *55.75X175.75* | | |
| | *Auditorium Images* | | |
| | *87.75X73.5 (4)* | | |
| | *80.25X73.25* | | |
| | *48.5X73.5* | | |
| | *33.75X73.5 (2)* | $ | 7,530 |
| | *Bendheim Corporate (materials and laminating)* | | |
| | Grand Façade Color Panels: | | |
| | 87 3/4" x 33" | | |
| | 85 1/2" x 109" | | |
| | 33 3/4" x 109" | | |
| | 33 3/4" x 33" | | |
| | Corridor Color Panels: | | |
| | 55 3/4" x 175 3/4" | | |
| | Auditorium Color Panel: | | |
| | 35 3/4" x 73 1/2" (x2) | | |
| | Laminate photo-image to glass | | |
| | Shipping and Insurance | $ | 15,000 |
| c) | Travel (*gas, hotel, etc.*) | $ | *1,500* |
| d) | Installation, (including site preparation) | $ | *4,500* |
| e) | Lighting or other "proper presentation" costs | $ | *500* |

| | | | |
|---|---|---|---|
| f) | Lucere Studio (materials and fabrication of images, dioramas, glass orbs,lenses and general operating costs) | $ | *8,110* |
| g) | Insurance | $ | *2,500* |
| h) | Photographic Documentation (digital, web-ready, hardcopies) | $ | *1,500* |
| i) | Public Report *technical aspects, maintenance, etc.* | $ | *800* |
| j) | Identification Plaque | $ | *1,600* |
| k) | Other *Contingency* | $ | *6,000* |
| | TOTAL | $ | *50,160* |

I declare that I am not a student enrolled in a formal program of art education, the project Architect or a member of the consulting architectural firm, a panel member, planning committee member, or on the staff of or a member of the Commission's board. I am registered in the Commission's Artist Bank slide registry.

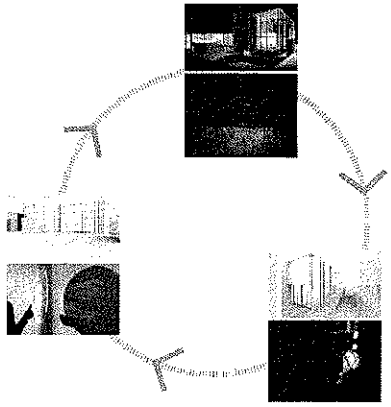
Signature_____ Date_____

# LUMINA

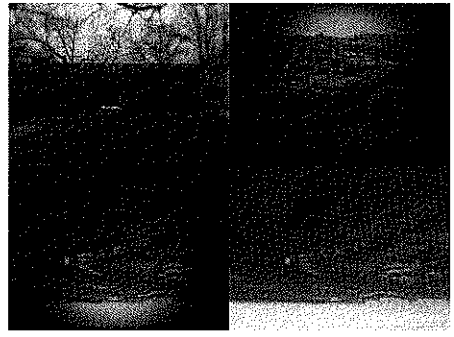
[illegible]
PROPOSAL FOR EAST POLE MARKET SQUARE
[illegible]

EXTERIOR VIEW OF GRAND FACADE AT NIGHT

## CONCEPT

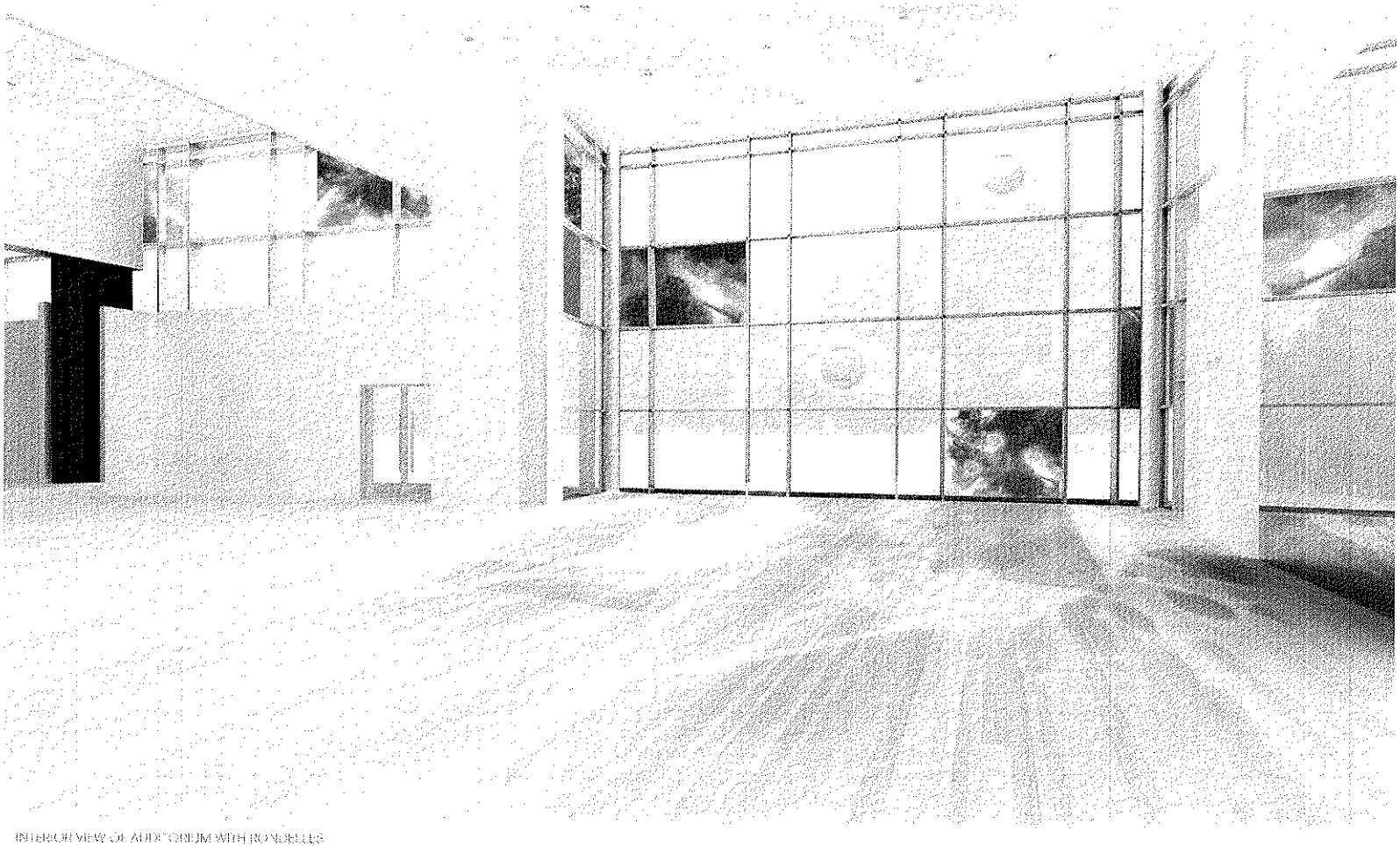


## CONTEXT



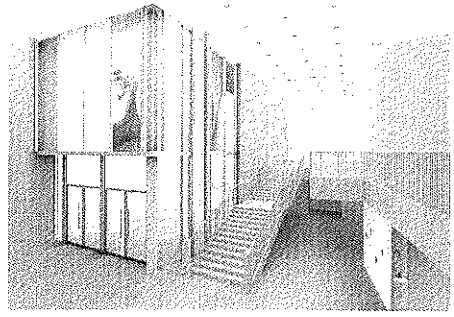
# LUMINA

30 YARRINGTON / PANEL 2
PROPOSAL FOR EAST ROOK MAGNET SCHOOL
NEW HAVEN, CONNECTICUT



INTERIOR VIEW OF AUDITORIUM WITH RONDELLES

ENTRANCE



LENS WALL