HERRON SCHOOL OF ART
COLLEGE OF ART
INDIANA UNIVERSITY-PURDUE UNIVERSITY-INDIANAPOLIS
DAVID J. HALVORSON
1979-1980
THESIS PROFESSOR: A. E. "SONNY" PALMER
HERRON SCHOOL OF ART

ABSTRACT

This thesis is a hypothetical project for the Herron School of Art in Indianapolis. The project relocates the school from its present facilities at Pennsylvania and sixteenth street to the Indiana University, Purdue University Main Campus. The new location is based on I.U.P.U.I. master plans.

The new facility consists of 97,000 square feet of space including faculty offices, classrooms, library, gallery and studios. The new building is integrated into the campus and respects the existing second-level walkway system which serves adjacent buildings. The design of the new Herron School of Art also incorporates energy conserving devices such as earth berming and supplemental solar heating.

This book is arranged in a chronological order of the project development. Its intent is to illustrate the reasoning behind the design development as well as show the evolution that lead to the final design solution.
ACKNOWLEDGEMENTS

I would like to acknowledge the following persons for the time and effort they have contributed in helping me to develop this project.

Sonny Palmer...Architecture Thesis Professor
Robert Fisher...Architecture Thesis Professor
Paul Laseau...Architecture Thesis Professor
Dean Rundell...Landscape Architecture Consultant
Tony Costello...Architecture Prof. Outside Critic
Arthur Webber...Dean, Herron School of Art
Dr. Ned Griner...Dean, College of Art Ball State Univ.
The organizational structure of the college is typical of most college organizations headed by a Dean and backed up by faculty and assistants. Currently, this organization does not have the facilities to provide all of its members with areas to perform their specific tasks (such as faculty offices). The location of administrative offices throughout the current complex are located wherever room can be found and not necessarily to accommodate administrative efficiency.
CONFERENCE ROOM

USERS:
Faculty, students

ACTIVITY PERFORMANCE:
Meeting space for students and faculty to organize and discuss current topics, related functions of college and curriculum.

SPACE PERFORMANCE:
Formal, business-oriented, active space for faculty to work out problems or discuss policies to achieve goals.

SPACE STANDARDS:
See drawing
Total square ft: 525
Total units: 1

FURNITURE AND EQUIPMENT:
Conference table, chairs, counter, tack space, facilities for A-V equipment.

ENVIRONMENTAL REQUIREMENTS:
Quiet, acoustically separated, air-conditioned, well lit

FACULTY OFFICES

USERS:
Faculty and students

ACTIVITY PERFORMANCE:
Personal space for the Dean, Foundation Chairman, Design Chairman, and professors to conduct business related to college.

SPACE PERFORMANCE:
Calm, formal and informal space where professors may interact with students or colleagues on a one-to-one basis.

SPACE STANDARDS:
Total square ftg. 100
Total units: 30

FURNITURE AND EQUIPMENT:
Desks, files, shelving, chairs

ENVIRONMENTAL REQUIREMENTS:
Quiet, comfortable, air-conditioned, well lit, should also have relation with exterior visually.
SECRETARIAL/RECEPTION

USERS:
Faculty, staff, visitors, students.

ACTIVITY PERFORMANCE:
Activity space for secretaries, nucleus of the business end of the college, space where visitors are oriented and introduced to the college. Also a space for interaction outside of the college.

SPACE PERFORMANCE:
Active, busy, sometimes noisy space where most business actions and transactions occur. Chiefly, a base of operations.

SPACE STANDARDS:
See drawing
Total square ft: 880
Total units: 1

FURNITURE AND EQUIPMENT:
Desks, chairs, typewriters, files, lounge furniture, copy machines, electrical link-up systems.

ENVIRONMENTAL REQUIREMENTS:
High level of light, acoustic treatment, comfortable, air-conditioned, visual contact with exterior.
ART EDUCATION

USERS:
Students, faculty

ACTIVITY PERFORMANCE:
Instruction in the method of teaching art.

SPACE PERFORMANCE:
Formal active, learning oriented

SPACE STANDARDS:
Total sq. ft. 910
Total units: 2
Source of information: current sq. ftg. of existing Herron Art facility has been described as adequate.

FURNITURE AND EQUIPMENT:
Chairs, lectern A-V equipment

ENVIRONMENTAL REQUIREMENTS:
Well lighted, acoustic separation from other zones, air conditioned, tack space, flexible furniture

ADMISSIONS OFFICE

USERS:
Faculty

ACTIVITY PERFORMANCE:
Admissions applications for college are reviewed and processed.

SPACE PERFORMANCE:
Formal, quiet, business oriented.

SPACE STANDARDS
Total square ft. 200
Total units: 1
Source of information: current sq. ftg. of existing Herron Art facility has been described as adequate.

FURNITURE AND EQUIPMENT:
Desk, tables, files, chairs, typewriter.

ENVIRONMENTAL REQUIREMENTS:
Well lighted, air conditioned, carpeted.
ART HISTORY CLASSROOM

USERS:
Faculty, students

ACTIVITY PERFORMANCE:
Classroom for instruction of art history through use of various teaching methods including A-V materials.

SPACE PERFORMANCE:
Formal, orderly, active space in which lectures are conducted on art history.

SPACE STANDARDS:
See drawings
Total square ft: 676
Total units: 2

FURNITURE AND EQUIPMENT:
Chairs, lectern, A-V, equip.

ENVIRONMENTAL REQUIREMENTS:
Well lighted, acoustic separation from other zones, air-conditioned, tack space, flexible furniture.
GENERAL OFFICES

USERS:
Faculty, staff, visitors, students

ACTIVITY PERFORMANCE:
Filing of records and financial business.

SPACE PERFORMANCE:
Active, busy, sometimes noisy space to negotiate financial business

SPACE STANDARDS:
Total square ft. 1225
Total units: 1
Source of information: current sq. ftg. of existing Herron Art facility has been described as adequate.

FURNITURE AND EQUIPMENT:
Desks chairs, typewriters, files, lounge furniture.

ENVIRONMENTAL REQUIREMENTS:
High level of light, acoustic treatment, comfortable, air conditioned, visual contact with exterior.

ETCHING LAB

USERS:
Faculty, students

ACTIVITY PERFORMANCE:
Design and instruction of printing using etched plates.

SPACE PERFORMANCE:
Informal, active, design oriented space.

SPACE STANDARDS:
Total square ft. 2800
Total units: 1
Source of information: current sq. ftg. of existing Herron Art facility has been described as adequate.

FURNITURE AND EQUIPMENT:
Direct presses, hot plates, plate cutter, print dryer, aqua tint box, air brush line.

ENVIRONMENTAL REQUIREMENTS:
Easily cleaned floors, well lighted, well ventilated.
LOUNGE

USERS:
Faculty, staff, visitors, and students.

ACTIVITY PERFORMANCE:
Space for meeting, eating, studying, relaxation

SPACE PERFORMANCE:
Active, busy, informal, familiar space where people meet or interact with fellow colleagues and students.

SPACE STANDARDS:
See drawing
Total Square ft. 2124
Total units 1

FURNITURE AND EQUIPMENT:
Tables, sofas, chairs, coffee, tables, vending equipment.

ENVIRONMENTAL REQUIREMENTS:
Easily cleaned floors, high air change, well-lit, degree of acoustic separation from other areas in building, relation with exterior, perhaps even a exterior portico.
AUDITORIUM:

USERS:
Faculty, students, staff, visitors, guest lecturers.

ACTIVITY PERFORMANCE:
Lecture facilities for visiting lecturers, symposiums, or general school activities involving large amounts of people.

SPACE PERFORMANCE:
Lively, active, spacious area for large gatherings of people.

SPACE STANDARDS:
Total net vol.: 45,000 cu. ft.
Total units: 1
Total seating: 300
Source of information: Architectural graphic standards

FURNITURE AND EQUIPMENT:
Good theatrical type space, acoustic quality necessary, controlled lighting

GALLERY:

USERS:
Students, faculty, staff, visitors

ACTIVITY PERFORMANCE:
Display area for art created at the college and on loan from other institutions.

SPACE PERFORMANCE:
Informal, active, moderately quiet space to observe art pieces.

SPACE STANDARDS:
Total square ft.: 3300
Total units: 1
Source of information: bldg. analysis of two different art institutes (spec.
Rochester Institute of Tech. Arts College and Herron Art School’s existing facilities) reveal that their existing galleries range from 5% to 5% of the total sq. ftg. of the facilities; therefor the gallery will be 5.5% of a proposed 60,000 sq. ft. facility.

FURNITURE AND EQUIPMENT:
Moveable panels, security equipment and flexible lighting.

ENVIRONMENTAL REQUIREMENTS:
Acoustic qualities, air-conditioning, humidity control
LIBRARY/SPECIAL BOOKS

USERS:
Faculty, staff, students

ACTIVITY PERFORMANCE:
Storage of special books for easy reference and protection.

SPACE PERFORMANCE:
Quiet, solemn, studious space.

SPACE STANDARDS:
See drawing
Total square ft. 220
Total units: 1

FURNITURE AND EQUIPMENT:
Shelving and special fire extinguishing system.

ENVIRONMENTAL REQUIREMENTS:
Air-conditioned, carpeted, acoustic separation from areas outside of library, high level of lighting.

LIBRARY-OFFICE/CHECKOUT

USERS:
Faculty, students, staff

ACTIVITY PERFORMANCE:
Supervision, organization and cataloging of library materials.

SPACE PERFORMANCE:
Quiet, solemn, studious space.

SPACE STANDARDS:
See Drawing
Total square ft. 255
Total units: 1

FURNITURE AND EQUIPMENT:
Desk, upholstered chairs, files, card catalogs

ENVIRONMENTAL REQUIREMENTS:
Air-conditioned, carpeted, acoustic separation from areas outside of library, high level of lighting.
LIBRARY/STACKS

USERS:
Faculty, students

ACTIVITY PERFORMANCE:
Storage of educational books for easy reference

SPACE PERFORMANCE:
Quiet, solemn, studious space.

SPACE STANDARDS:
See drawing
Total square ft. 1240
Total units: 1

FURNITURE AND EQUIPMENT:
Book racks, study stalls, tables, chairs

ENVIRONMENTAL REQUIREMENTS:
Air-conditioned, carpeted, acoustic separation from areas outside of library, high level of lighting.
LIBRARY/PERIODICALS

USERS:
Faculty, students

ACTIVITY PERFORMANCE:
Storage of current periodicals for easy reference.

SPACE PERFORMANCE:
Quiet, solemn, studious space.

SPACE STANDARDS:
See drawing
Total square ft. 713
Total units: 1

FURNITURE AND EQUIPMENT:
Reference table, magazine racks, upholstered furniture.

ENVIRONMENTAL REQUIREMENTS:
Air-conditioned, carpeted, acoustic separation from areas outside of library, high level of lighting.

11

LIBRARY/SLIDES AND FILES

USERS:
Faculty, students, staff

ACTIVITY PERFORMANCE:
Storage of slides, files and microfilm for easy reference.

SPACE PERFORMANCE:
Quiet, solemn, studious space.

SPACE STANDARDS:
See drawing
Total square ft. 560
Total units: 1

FURNITURE AND EQUIPMENT:
File, slide, and microfilm cabinets with viewing equipment.

ENVIRONMENTAL REQUIREMENTS:
Air-conditioned, carpeted, acoustic separation from areas outside of library, high level of lighting.
PAINTING CLASSROOMS

USERS:
Students, faculty

ACTIVITY PERFORMANCE:
Instruction in the art of painting in various mediums (including watercolor, oils, temperas, etc...)

SPACE PERFORMANCE:
Quiet, private intimate space for the act of painting.

SPACE STANDARDS:
See drawing
Total square ft. 1650
Total units: 4

FURNITURE AND EQUIPMENT:
Drawing boards, lockers, moveable platform, counters, sinks.

ENVIRONMENTAL REQUIREMENTS:
Natural lighting, acoustic separation, easy clean floors, flexibility, air conditioning.
DRAWING CLASSROOMS.

USERS:
Students, faculty

ACTIVITY PERFORMANCE:
Instruction in art of drawing and studies of form and figure using various mediums.

SPACE PERFORMANCE:
Quiet, private, intimate space for act of drawing.

SPACE STANDARDS:
See drawing
Total square ft. 1024
Total units: 2

FURNITURE AND EQUIPMENT:
Drawing stools, moveable platform, lockers, counter, sinks, easily cleaned floor.

ENVIRONMENTAL REQUIREMENTS:
Adjustable lighting, acoustic separation, flexibility, air conditioning.
LITHOGRAPHY STUDIOS

USERS:
Students, faculty

ACTIVITY PERFORMANCE:
Work area for printing by means of lithography (process of printing from a plane surface, usually smooth stone or metal plate).

SPACE PERFORMANCE:
Informal, active, noisy space.

SPACE STANDARDS:
Total square ft. 1000
Total units: 2
Source of information: current sq. ft. of existing Herron Art facility has been described as adequate.

FURNITURE AND EQUIPMENT:
Direct presses, auto-offset presses, flat printing limestone.

ENVIRONMENTAL REQUIREMENTS:
Acoustical separation from other areas, easily cleaned floors, well lighted, humidity control.

PHOTO MECH. FOR PRINTMAKING

USERS:
Faculty, students

ACTIVITY PERFORMANCE:
Preparation of plates for printmaking.

SPACE PERFORMANCE:
Informal, active, design oriented.

SPACE STANDARDS:
Total square ft. 650
Total units: 1
Source of information: current sq. ft. of existing Herron Art facility has been described as adequate.

FURNITURE AND EQUIPMENT:
Vacuum frame arc light, stat camera, plate dryer, plate spinner, photo enlarger.

ENVIRONMENTAL REQUIREMENTS:
Well lighted, humidity control, easily cleaned floor.
TYPE LAB

USERS:
Students, faculty

ACTIVITY PERFORMANCE:
Instruction and work in typesetting, proofing, and production of printed materials.

SPACE PERFORMANCE:
Informal, active, noisy space.

SPACE STANDARDS:
Total square ft. 700
Total units: 1
Source of information: Current
Sq. ftg. of Existing Herron Art facility has been described as adequate.

FURNITURE AND EQUIPMENT:
Proofing press, type cases, waxer, light table, paper cutter, Air brush line.

ENVIRONMENTAL REQUIREMENTS:
Acoustical separation from other unrelated areas, easily cleaned floors, well lighted.

PHOTO MECHANICAL ROOM

USERS:
Students, faculty

ACTIVITY PERFORMANCE:
Area for different processes of photographic reproduction.

SPACE PERFORMANCE:
Informal, active, design oriented space.

SPACE STANDARDS:
Total square ft. 720
Total units: 1
Source of information: current
sq. ftg. of existing Herron Art facility has been described as adequate.

FURNITURE AND EQUIPMENT:
Stat camera, rapid print processor, half tone screens, photo enlarger, negative dryer, photo mounting press, cylindrical print dryer, tacking iron, vacuum frame arc light, turpentine spray pump, light table.

ENVIRONMENTAL REQUIREMENTS:
Well lighted, humidity control, easily cleaned floor.
PHOTOGRAPHY LABORATORY

USERS:
Students, faculty

ACTIVITY PERFORMANCE:
Area for instruction, shooting, drying, developing and printing of films and papers in a creative fashion.

SPACE PERFORMANCE:
Active, informal, moderately quiet space for the creation of artistic endeavors through photography.

SPACE STANDARDS:
Total square ft: 1900
Total units: 1
Source of information: proposed photo lab addition for existing Herron Art schools.

FURNITURE AND EQUIPMENT:
Dryers, wash sinks, chemical storage, enlargers, sinks and counters, trays, stools, equipment storage.

ENVIRONMENTAL REQUIREMENTS:
Temperature controlled environment, high air change, special darkroom lighting

DESIGN STUDIOS

USERS:
Faculty, students divided according to class standing, i.e. freshmen, sophomore, junior, senior, graduate.

ACTIVITY PERFORMANCE:
Instruction and education in the graphic arts, layouts, art concepts and design involving color, form, and balance.

SPACE PERFORMANCE:
Active, informal, design-oriented, interactive space where students can learn from professors and themselves.

SPACE STANDARDS:
Total square ft.
  freshmen.......1600
  sophomore......1200
  junior.........800
  senior.........800
  graduate......1800
Total units 5
Source of information: current sq. ftg. of existing Herron Art facility has been described as adequate.

FURNITURE AND EQUIPMENT:
Tables, chairs, lockers, counters, sinks, drafting tables, stools, light tables, tack space.

ENVIRONMENTAL REQUIREMENTS:
Wide variation of lighting conditions, air conditioned, visual relation to exterior and possibly a physical relation to exterior.
SCULPTURE STUDIO

USERS:
Students, faculty

ACTIVITY PERFORMANCE:
Classroom for creation of sculpted pieces of metal, plaster, stone, etc...

SPACE PERFORMANCE:
Active, creative, informal space for the creation of 3-dimensional art work

SPACE STANDARDS:
Total square ft. 1533
Total units: 1
Source of information: current sq. ftg. of existing Herron Art facility has been described as adequate.

FURNITURE AND EQUIPMENT:
Tables, chairs, counters, storage, sinks, metal tables, power tools (or close proximity to shop area).

ENVIRONMENTAL REQUIREMENTS:
Relation to outdoor portico for sculpture, natural light and plentiful artificial light, humidity control, exterior privacy, high ceilings.

CERAMICS/CLAY STUDIO

USERS:
Students, faculty

ACTIVITY PERFORMANCE:
Classroom for instruction and design of ceramic materials, space serves for design and lecture instruction.

SPACE PERFORMANCE:
Active, informal, design and goal oriented space for the creation of artistic pieces.

SPACE STANDARDS:
Total square ft: 1247
Total units: 1
Source of information: current sq ftg. of existing Herron Art facility has been described as adequate.

FURNITURE AND EQUIPMENT:
Tables, chairs, counters, storage, sinks, lockers, pottery wheels.

ENVIRONMENTAL REQUIREMENTS:
Well lighted, air conditioned, relation to exterior visually, humidity control
3-D DESIGN

USERS:
students, faculty, staff

ACTIVITY PERFORMANCE:
Area for working, shaping, carving, sanding and finishing of wood.

SPACE PERFORMANCE:
Noisy, dusty, efficient space to perform art work with wood, also used as a repair shop.

SPACE STANDARDS:
Total square ft. 1930
Total units: 1
Source of information: current sq. ftg. of existing Herron Art facility has been described as adequate.

FURNITURE AND EQUIPMENT:
Various power tools and hand tools, including belt sander, bench grinder, band saws, jigsaw, lathe, drill press, radial arm saw, table saw, electric sander, jointer, thickness planer, plywood jig, router sander/driller.

ENVIRONMENTAL REQUIREMENTS:
High air change, high lighting level with some area lighting, should have acoustic separation from unrelated areas.

FOUNDRY

USERS:
students, faculty, staff

ACTIVITY PERFORMANCE:
Sculpture related activities involving use of hand tools and special equipment.

SPACE PERFORMANCE:
Informal, active, noisy, design oriented space.

SPACE STANDARDS:
Total square ft. 4700
Total units: 1
Source of information: current sq. ftg. of existing Herron Art facility has been described as adequate.

FURNITURE AND EQUIPMENT:
Kilns (Gas and electric), electric wrench, furnace, arc welders, concrete mixers, radial arm saw, band saw, air tools, compressors bench grinder, table, crucibles, assorted hand tools, tables

ENVIRONMENTAL REQUIREMENTS:
High air change, high lighting level with some area lighting, should have acoustic separation from unrelated areas.
EQUIPMENT STORAGE AND CHECKOUT

**Users:**
Staff, Faculty, students

**Activity Performance:**
Area for distribution of tools to users.

**Space Performance:**
Room usually located adjacent to a noisy, dusty space.

**Space Standards:**
See drawing
Total square ft. 140
Total units: 3

**Furniture and Equipment:**
Shelving

**Environmental Requirements:**
High lighting level, high air change, closely related to metal wood and photographic workshops

SHOP OFFICES

**Users:**
Faculty, students, staff

**Activity Performance:**
Supervision rooms for all shop areas.

**Space Performance:**
Active, informal space for overseeing shop functions. Acts as a nerve center for shop areas.

**Space Standards:**
See drawing
Total square ft. 154
Total units: 3

**Furniture and Equipment:**
Files, desks, shelving, stor.

**Environmental Requirements:**
High lighting level, should have some acoustic separation from shop area but not visual separation.
CUSTODIAL OFFICE

USERS:
Custodians, staff

ACTIVITY PERFORMANCE:
Base of operations for upkeep, cleaning and maintenance of building. Custodial services dispensed from this point.

SPACE PERFORMANCE:
Busy, active space which is activity center for mechanical receiving, and storage spaces.

SPACE STANDARDS
See drawing
Total square ft. 198
Total units: 1

FURNITURE AND EQUIPMENT:
Lockers, workbench, desk, space for storage of janitorial equipment, easily cleaned floors.

ENVIRONMENTAL REQUIREMENTS:
Well lit, degree of acoustic separation from mechanical spaces, air conditioned

SHOP CLASSROOMS

USERS:
Faculty, students

ACTIVITY PERFORMANCE:
Support space for shops which allows lectures on tools, techniques and design. Should be located within or immediately adjacent to shop areas.

SPACE PERFORMANCE:
Medium loud, informal design oriented and instructural space.

SPACE STANDARDS:
See drawing
Total square ft. 506
Total units: 2

FURNITURE AND EQUIPMENT:
Display table and chairs

ENVIRONMENTAL REQUIREMENTS:
Some acoustic separation from shops, high level of lighting, adequate ventilation.
RECEIVING AND STORAGE:

USES:
Faculty, staff

ACTIVITY PERFORMANCE:
Receiving of materials and supplies for entire arts complex, storage of temporary materials.

SPACE PERFORMANCE:
Active, noisy space in which materials by truck and car may be received and dispensed.

SPACE STANDARDS:
See drawing
Total square ft. 660
Total units: 1

FURNITURE AND EQUIPMENT:
No special furniture, truck dollies for removal and delivery of equipment. Lock seals for weatherproofing, possible dock levelers, conc. floors, high level of security.

ENVIRONMENTAL REQUIREMENTS:
Space heaters needed in receiving area for cold weather.
<table>
<thead>
<tr>
<th>SPACE</th>
<th>SQ FT</th>
<th>TOTAL UNITS</th>
<th>TOTAL SQ FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty offices</td>
<td>100</td>
<td>30</td>
<td>3000</td>
</tr>
<tr>
<td>Secretarial/reception</td>
<td>880</td>
<td>1</td>
<td>880</td>
</tr>
<tr>
<td>Conference room</td>
<td>525</td>
<td>1</td>
<td>525</td>
</tr>
<tr>
<td>Art education</td>
<td>910</td>
<td>2</td>
<td>1820</td>
</tr>
<tr>
<td>Admissions office</td>
<td>200</td>
<td>1</td>
<td>200</td>
</tr>
<tr>
<td>Art history classroom</td>
<td>676</td>
<td>2</td>
<td>1352</td>
</tr>
<tr>
<td>General offices</td>
<td>1225</td>
<td>1</td>
<td>1225</td>
</tr>
<tr>
<td>Etching lab</td>
<td>2800</td>
<td>1</td>
<td>2800</td>
</tr>
<tr>
<td>Lounge</td>
<td>2124</td>
<td>1</td>
<td>2124</td>
</tr>
<tr>
<td>Auditorium</td>
<td>4860</td>
<td>1</td>
<td>4860</td>
</tr>
<tr>
<td>Gallery</td>
<td>3300</td>
<td>1</td>
<td>3300</td>
</tr>
<tr>
<td>Library/special books</td>
<td>220</td>
<td>1</td>
<td>220</td>
</tr>
<tr>
<td>Library-office/checkout</td>
<td>255</td>
<td>1</td>
<td>255</td>
</tr>
<tr>
<td>Library stacks</td>
<td>1240</td>
<td>1</td>
<td>1240</td>
</tr>
<tr>
<td>Library/periodicals</td>
<td>713</td>
<td>1</td>
<td>713</td>
</tr>
<tr>
<td>Library/slides and files</td>
<td>560</td>
<td>1</td>
<td>560</td>
</tr>
<tr>
<td>Painting classrooms</td>
<td>1680</td>
<td>4</td>
<td>6720</td>
</tr>
<tr>
<td>Drawing classrooms</td>
<td>1024</td>
<td>2</td>
<td>2048</td>
</tr>
<tr>
<td>Lithography studios</td>
<td>1000</td>
<td>2</td>
<td>2000</td>
</tr>
<tr>
<td>Photo mech. for printmaking</td>
<td>650</td>
<td>1</td>
<td>650</td>
</tr>
<tr>
<td>Type lab</td>
<td>700</td>
<td>1</td>
<td>700</td>
</tr>
<tr>
<td>Photo mechanical room</td>
<td>720</td>
<td>1</td>
<td>720</td>
</tr>
<tr>
<td>Photography laboratory</td>
<td>1900</td>
<td>1</td>
<td>1900</td>
</tr>
<tr>
<td>Design studios:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>freshman</td>
<td>1600</td>
<td>1</td>
<td>1600</td>
</tr>
<tr>
<td>sophomore</td>
<td>1200</td>
<td>1</td>
<td>1200</td>
</tr>
<tr>
<td>junior</td>
<td>800</td>
<td>1</td>
<td>800</td>
</tr>
<tr>
<td>senior</td>
<td>800</td>
<td>1</td>
<td>800</td>
</tr>
<tr>
<td>graduate</td>
<td>1800</td>
<td>1</td>
<td>1800</td>
</tr>
<tr>
<td>Sculpture studio</td>
<td>1533</td>
<td>1</td>
<td>1533</td>
</tr>
<tr>
<td>Ceramics/clay studio</td>
<td>1247</td>
<td>1</td>
<td>1247</td>
</tr>
<tr>
<td>3-D design</td>
<td>1930</td>
<td>1</td>
<td>1930</td>
</tr>
<tr>
<td>Foundry</td>
<td>4700</td>
<td>1</td>
<td>4700</td>
</tr>
<tr>
<td>Equipment storage and checkout</td>
<td>140</td>
<td>3</td>
<td>420</td>
</tr>
<tr>
<td>Shop offices</td>
<td>154</td>
<td>3</td>
<td>462</td>
</tr>
<tr>
<td>Custodial office</td>
<td>198</td>
<td>1</td>
<td>198</td>
</tr>
<tr>
<td>Shop classrooms</td>
<td>506</td>
<td>2</td>
<td>1012</td>
</tr>
<tr>
<td>Receiving and storage</td>
<td>660</td>
<td>1</td>
<td>660</td>
</tr>
<tr>
<td>Net assignable area</td>
<td></td>
<td></td>
<td>58,174</td>
</tr>
</tbody>
</table>

Efficiency ratio: 60/40% (comparable to science building)

Gross area: 58,174 net square feet = 96,957 gross square feet

0.6
BUILDING CRITERIA

FUNCTION:
The function of the building is to provide an atmosphere conducive to the study and creation of art in various forms and scales.

INTERIOR FLEXIBILITY:
Interior flexibility is of prime importance in the design of most art schools. Consideration must be made for future changes in needs, faculty and student sizes, ever changing curriculum alterations and unexpected functional restructuring of various areas.

INTERIOR CIRCULATION:
Circulation throughout the facility should be a visual experience reflecting the art and creative nature of the people within. Although, for certain areas, privacy will be of extreme importance. In such areas visual and audio signals will have to be excluded with care. In general, circulation in most of the studio areas will be unstructured and subject to the whims of the students and faculty.

BUILDING CORES:
Building cores will consist chiefly of vertical circulation, structure, and general building services such as HVAC, air, plumbing, gas, etc.

BUILDING EXPANSION:
Since its establishment in 1861 as the Indiana School of Art, Herron has enjoyed a continual growth in program and facilities. With its affiliation with the I.U.P.U.I., campus the institution now has access to state funds and aid. Therefor, no foreseeable end can be seen to the expansion of the Herron Art School, at what rate this expansion will take place is unforeseen.

ECONOMIC EFFICIENCY:
Economic efficiency in terms of buildings at this time can best be reflected in terms of a building's energy efficiency. Therefore, this building will encompass a current technological efficiency when possible.

SPECIAL CODE REQUIREMENTS
Herron Art School is subject to all applicable codes that relate to group A, division 2.1 of The Uniform Building Code for Indiana. This is a building having an assembly room with an occupant load of 300 or more without a stage, including such buildings used for educational purposes.

SECURITY:
Security in a building such as this, that contains art work and displays on loan from other institutions as well as Herron is of prime importance.
EXTERIOR CRITERIA

PARKING:
Parking on a campus such as this does not seem to pose many problems. Construction of half of a new parking structure is under way and plans for a second parking structure are in effect.

SERVICE:
Service to the site will most probably be along Blake Street which already services the new Business-SPEA classroom building.

LANDSCAPING:
LIGHTING
The surrounding neighborhoods and schedule of night classes make lighting and important aspect of the building program for security, aesthetics, and safety reasons.

PLANTING
Planting will be encouraged to add life and vitality to the campus fabric.

POOLS AND SCULPTURE
An art school can obviously not exist without sculpture or a place to display it. Therefore, sculpture and perhaps some form of water will be incorporated into the exterior landscape.

STREET FURNITURE
The proximity of the site to pedestrian traffic is conducive to incorporation of "street furniture" to provide a sense of place.
ROCHESTER INSTITUTE OF TECHNOLOGY

Rochester Institute of Technologies
College of Fine and Applied Arts and
College of Graphic Arts and Photography
is an exceptionally well designed struc-
ture which blends well with the rest of the
campus. Its harmonious appeal comes from
the fact that the entire campus is a
design collaboration among five architects;
Hugh Stubbins (designer of this building),
Lawrence Anderson, Kevin Roche, Harry
Weese, Edward Larrabee Barnes and land-
scape Architect Dan Kiley. The building
encompasses a total of 425,000 sq. ft.
which makes it the largest building on
the campus.
The arts complex can probably best be described in concept as a court type building. Although it is an L-shaped building, its relation with other buildings on the campus forms a well defined court.
STRUCTURAL SYSTEM

34' x 34' structural bays

MAJOR CIRCULATION

Unusual and erratic circulation patterns
UNIQUE FEATURES

* Use of modest materials together with standard construction techniques.

* Studios and workshops organized around a skylighted two level exhibition space.

* Building envelopes a portico which serves as a gateway between the parking area and campus.

* Building is terraced to reduce scale.

* L-shaped structure forms well scaled court.

* Shared vocabulary of structure, scale and materials between all buildings on campus.

* Part of unified campus fabric.

* Anchor building to academic core.
CONCEPT

The arts complex at Naniwa can probably best be described as a court type complex surrounding central terraces. The A and B wings of the complex are also court type buildings consisting of various blocks of studio type rooms arranged around central circulation corridors. Wing C consists of a wall or slab type building with a single-loaded corridor serving the industrial functions of this area.

THE NANIWA ARTS UNIVERSITY

The Naniwa Arts University is a functionally appropriate building for its intended purposes. Designed by Daiichi Kobo Arch. Firm; the building provides numerous plazas, galleries, pilotis, balconies, and roof top corners where individuals, small groups, or large groups can congregate and exchange opinions. Planned to be a unit in the principal architectural group of the campus, the various buildings are connected by concrete platforms of variable heights which create exterior spaces relating in varying degrees to the surrounding hills and campus structures. The main terrace between the buildings, according to the architects, is planned as "an abstract expression of spatial quality."
The structural system is composed of two floor slabs (one 9.6m x 12.8m and one 11.2m x 14.4m) at 90cm interval heights.
**UNIQUE FEATURES**

*Separation of building functions according to degree of industrialization and noise.*

*Stairwell in center of the building also serves as a gallery for students work.*

*Moveable lockers partition the gallery space from the classroom, providing varying degrees of flexibility.*
San Francisco's Art Institute is an addition to an existing art building constructed in 1927 by Bakewell and Brown. The building is a pleasant blending of Corbusian influences which meld themselves to the existing structure. It is a successful art building in that it combines various forms and elements together with light and shadow to form a building which is both functional and artistically refreshing. The new addition by Paffard Keatinge Clay occupies a former garden of the schools with a 57,000 sq. ft. structure which is a powerful statement of current trends in art and architecture.
By analyzing the circulation pattern of this building, it can be seen that the architect has incorporated an interior court into the new addition as the sculpture studio. This would clearly have to be labeled as a court type building conceptually since both the old building and the new addition contain this type of configuration.

**UNIQUE FEATURES**

* Quiet courtyard

* Larger volumes house principal activity spaces (gallery, lecture hall, cafeteria).

* Students find building useful and congenial.

* Roof plaza replaces courtyard garden of older building.
STRUCTURAL SYSTEM

30' x 30' concrete structural bays

MAJOR CIRCULATION

Logical, spatial oriented circulation
WATER FEATURES

The I.U.P.U.I. campus is bordered on three sides by the White River and Fall Creek, although none of these water features is on the immediate site of the campus.
SOIL:

The I.U.P.U.I. campus complex covers an area that is dominantly nearly level on smooth terrace flats. This area is approximately 50 percent urban land and 35 percent well drained Fox series soils. Most parts of this area are drained by sewer systems and gutters. Erosion only becomes a problem where slopes of 2 to 3 percent are left bare for considerable periods.

The fox series of soils consists of well drained soils that are moderately deep over sand and gravelly sand. The native vegetation of this area consists of hardwoods. In a representative profile, the surface layer is dark brown loam 8 inches thick. The subsoil is approximately 30 inches thick and ranges from friable loam to firm gravelly clay loam. This in turn lies over about 60 inches of yellowish brown gravelly sand and sand. Permeability ranges from moderate to rapid in this soil.

ACCESSIBILITY:

Major automotive routes to and from main campus site in Indianapolis.
ENVIRONMENT

A) Physical

The physical environment of the I.U.P.U.I. campus consists of various campus buildings and medical buildings (to the NW) scattered on a flat plain. This plain in turn is fragmented by various streets (two with four lanes) which sever the campus and divide it into various areas each with different identities. Like many other campuses, I.U.P.U.I. has areas with older buildings. The newer part of the campus has sparse vegetation and what seems like vast "seas of asphalt" for parking.

B) Social

The social atmosphere of the campus consists of commuting students within the Marion county and adjacent county areas. Most of these students do not live in the immediate area of the I.U.P.U.I. campus. The campus in its expansion program has crowded the original residents (of low income) out of the area. This has created a buffer zone of sparsely populated and blighted housing to the east and north which contribute to the vagrancy and crime problems typically experienced in innercity neighborhoods. Its proximity and relation to the downtown has aided in its rapid development toward an integrated downtown fabric since 1969.

C) Emotional

Typical images of the site reveal a barrenness and isolation from surrounding areas; almost as if each building had suddenly grown from the immense asphalt parking lots. The image is further supported by flat expanses of grass without sufficient vegetation such as trees and shrubbery and little if any topological variations. Master planning of the campus is now in effect and seems to be remediating this problem by relating new buildings to existing buildings and introducing more landscaping elements.

INDIANAPOLIS Elevation 792 Ft.

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Degree Days</th>
<th>Rel. Prec. Wind</th>
<th>Average Number of Days of</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average</td>
<td>(Base 65°)</td>
<td>Nor. Total</td>
<td>Sunup/Sundown</td>
</tr>
<tr>
<td>Minimum</td>
<td>Hum</td>
<td>Speed Direction</td>
<td>Rain 0.1&quot; Snow Thunder Fog</td>
</tr>
<tr>
<td>Maximum</td>
<td>Heating</td>
<td></td>
<td>Percent IFR</td>
</tr>
<tr>
<td>Monthly</td>
<td>Coiling</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Highest</td>
<td>Snow Total</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lowest</td>
<td>1:00 p.m.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heating</td>
<td>Total</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coiling</td>
<td>Snow Total</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00 p.m.</td>
<td>Speed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>Average</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>Degree Days</td>
<td>Rel. Prec. Wind</td>
<td>Average Number of Days of</td>
</tr>
<tr>
<td>Average</td>
<td>(Base 65°)</td>
<td>Nor. Total</td>
<td>Sunup/Sundown</td>
</tr>
<tr>
<td>Minimum</td>
<td>Hum</td>
<td>Speed Direction</td>
<td>Rain 0.1&quot; Snow Thunder Fog</td>
</tr>
<tr>
<td>Maximum</td>
<td>Heating</td>
<td></td>
<td>Percent IFR</td>
</tr>
<tr>
<td>Monthly</td>
<td>Coiling</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Highest</td>
<td>Snow Total</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lowest</td>
<td>1:00 p.m.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heating</td>
<td>Total</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coiling</td>
<td>Snow Total</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00 p.m.</td>
<td>Speed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>Average</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CLIMATE
INTRODUCTION

The following pages illustrate the process I have pursued in designing the new facility for the Herron School of Art. It is a comprehensive study involving various concepts that focus on a central gallery space as a showpiece for the college while also responding to potential pedestrian and vehicular traffic patterns. Natural light, solar energy potential and systems integration are conceptual ideas that contribute significantly to many of the form generating elements. Land forms and sculpture gardens are also introduced at various locations to add excitement and to create a "sense of place" for its users.

The preliminary design solution is a combination of many of these design concepts. The new facility steps down across its site from the new S.P.E.A.-Business building to New York street. This is done to give the building a sculptural identity and to lend it a progressing sense of scale. Considerable effort has been expended in developing "playful" facades with distinct shadow patterns that aid in defining the various masses of the building.
1. HARDIED, CRIBBED, ELIGIBLE, HIDDEN FROM VEHICLE TRAFFIC. PLEASANT VIEW, OF THE ENTRANCE, OPEN ON 2 SIDES.

2. CLOSE RELATION TO PEDESTRIAN CIRCULATION, BETTER VISUAL CONTACT & STREET, GOOD SOLAR EXPOSURE, OPEN ON 4 SIDES, CLOSE TO PARKING.

3. CLOSE RELATION TO SERVICE AREAS, CLOSE TO VEHICLE TRAFFIC, ZONE, GOOD SOLAR EXPOSURE, NOisy.

4. GOOD VISUAL CONTACT, NOisy, EXCELLENT SOLAR EXPOSURE, OPEN ON 4 SIDES, POOR RELATION V/ PEDESTRIAN ACCESS, CLOSE TO PARKING.
Major Project Space Relationships
NEW YORK STREET (ONE WAY)

BUILDING TO SITE RELATION
Gallery From Main Level

North East Entry - Main Level
BIBLIOGRAPHY


