SPACE RELATIONSHIPS

1 - Same space
2 - Strong physical contact
3 - Physical contact
4 - Communications contact
5 - Visual contact
6 - Proximity

87
STUDIOS

The studios should be the hub/organizer of the Center.

Strong visual access to areas of interest such as people movement areas; theater, pedestrian flow, plaza, exhibit, lounge/restaurant, also points of visual interest such as the Union Station and the Monument Circle.

Physical relationship to resource areas such as faculty offices and the library.

Strong physical access to utilitarian areas such as the printroom, systems workshop, woodshop, research room, and darkroom.

Strong physical and possible visual access to parking for security reasons. Also access to loading.
Studio work spaces

Equipment: drafting table w/drawing and general storage, optional extra storage, work table.
70 sq. ft. x approx. 500 spaces = 35,000 sq. ft.
Project Storage - 900 sq. ft. x 4 levels = 3600 sq. ft.
Clean-up & spray paint - 165 sq. ft. x 4 = 660 sq. ft.
\[ \text{Total} = 39,260 \text{ sq. ft.} \]

Faculty Offices

Equipment: drafting table or work table, office desk, file cabinet, storage unit, 2 chairs, wall shelving
110 sq. ft. x 42 offices = 4620 sq. ft.
Secretary - 100 sq. ft. x 5 = 500 sq. ft.
\[ \text{Total} = 5,120 \text{ sq. ft.} \]

Main Office & Dean's Office

Equipment: (Dean's Office) desk, 4 chairs, 2 file cabinets
(Assistant Dean) desk, 4 chairs, 2 file cabinets
(Main Office) 5 secretarial desks, 10 file cabinets, 5 secretarial chairs, 4 guest chairs, copy machine, storage units
Dean's Office - 200 sq. ft.
Assistant Dean's Office - 200 sq. ft.
Office - 1000 sq. ft.
\[ \text{Total} = 1,400 \text{ sq. ft.} \]
Department Offices

Equipment: 3 secretarial desks, 5 file cabinets, 3 secretarial chairs, 4 guest chairs
Secretaries 50 sq. ft. x 3 = 150 sq. ft.
Storage 50 sq. ft. x 3 = 150 sq. ft.
450 sq. ft. x 3 offices = 1,350 sq. ft.

Library

Equipment: book stacks, copy machines (2), slide storage, periodical stacks, reserve storage, special collections, check-out desk, drawing storage cabinets, 10 four station tables, 50 reading stations
Library & Offices - 11,450 sq. ft.
Slides & Office - 659 sq. ft.
12,109 sq. ft.

Archival Center

Storage & Retrieval - 600
Layout - 240
840 sq. ft.

Restrooms

Men: 1 water closet, 2 urinals, 2 lavatories
70 sq. ft. x 6 = 420 sq. ft.

Women: 2 water closets, 2 lavatories
70 sq. ft. x 6 = 420 sq. ft.
640 sq. ft.

Exhibit

Equipment: movable partitions, stacking display system
3000 sq. ft.
Storage

Equipment: shelving

3000 sq. ft.

Classrooms

Equipment: flexible seating, podium, projection

375 x 4 = 1500
600 x 4 = 2400

3900 sq. ft.

Projection & Storage - 10 x 60

600 sq. ft.

Lecture

Equipment: flexible seating, raised podium,
multiple projection

6000 sq. ft.

Lounge/Restaurant

Equipment: movable seating, vending, kitchen

2000 sq. ft.

Kitchen - 400 sq. ft.

2400 sq. ft.

Seminar

Equipment: flexible seating, discussion table

400 x 3 = 1200

1200 sq. ft.

Research Room

Equipment: overhead projectors, equipment for photographing models, drawings, etc., drymounting press, cutter, typing station, computer facilities

2400 sq. ft.

Wood Shop

Equipment: band saw, table saw, jigsaw, jointer, drill press, 4 work tables, radial arm saw, 2 sanders, lathe

1 shop w/3 areas wood, metal, plastic

3600 sq. ft.
Tool Storage

Equipment: shelving for hand tool storage, audio visual equipment

400 sq. ft.

General Storage

2700 sq. ft.

Print Room

Equipment: Print machine, paper storage units, table
Xerox machine
Multilith (small offset)

400 sq. ft.

Darkroom

Equipment: 4 print dryers, 2 drymount presses, 3 cutters, 2
tables, 2 sinks, storage units (wall), 8
enlargers, 4 print sinks, 2 wash sinks

2000 sq. ft.

Shop Technician's Office

Equipment: desk, 2 chairs, 2 file cabinets, storage units

120 sq. ft.

Photography Office

Equipment: desk, work table, shelving, storage units,
slide storage, 2 file cabinets, enlarger,
print sink, print dryer, paper cutter

300 sq. ft.

Student Media

Typewriters
Slide Projectors
O'Head Projectors

1000 sq. ft.

Environmental Forces Simulation

1000 sq. ft.

Visual Simulation

800 sq. ft.

SC/AIA Office

3 offices in one
Equipment: 3 desks, 3 chairs, 2 file cabinets, table,
storage units,

400 sq. ft.
Visiting Critics Offices -
120 sq. ft. x 6 = 720 sq. ft.

Subtotal 720 sq. ft.

Circulation - 19,454 sq. ft.
Mechanical - 11,672

TOTAL 128,396 sq. ft.
Dean - The dean is the main decision organizer for the school. He is the most business oriented of the faculty. In some schools the dean is not necessarily from an architectural background.

Assistant to the Dean - Assists dean in decision making process. This is not necessarily a full time position. The assistant to the dean can often take on other responsibilities such as a teaching position because of this position he often comes in closer contact with the rest of the people in the school, including the students.

Department Heads - Decision making is broken down to the level of each department and specific issues relevant to that department. Department heads also assume teaching roles in the school. The involvement with the student becomes stronger at this level.

Instructors - They have the most involved contact with the students of anyone in the school. They also have the most effect on what the student learns. This is the most important faculty position. They also have a strong influence in decision making.

Consultants - This is a part time position for outside professionals such as structural and mechanical engineers and also outside architects.

Librarian - The library can be the most important space in the school to some students. The librarian must keep the various areas in the library in touch with current trends in architecture. The librarian may also be involved in organizing research and research classes.

Secretarial - The secretaries are part of the support staff for the school. They are usually only in contact with the faculty and staff of the school. Possibly they need to come in closer contact with the student.
Support Staff (shop technicians, photographers) - These people are in contact with the student through the work they do in the shop. They are responsible for keeping their areas organized. They are also responsible for much of the ordering and receiving of supplies for the school.

Student Staff - They know more of what the student is like because they are the student. Working with the faculty gives them a special insight into the school and how it works. This includes such organizations as the SC/AIA.
SUPPORTING FACILITIES

Lounge - The lounge should be shared by both students and faculty alike to promote a strong relationship. There is also the possibility of the lounge becoming more than just a lounge, it could be a public facility in conjunction with the theater complex. This could also respond to the lunch hour crowd downtown.

Restrooms - Several restrooms will be needed for both men and women throughout the project.

Janitor Closets - These will also be necessary at various locations in the project, possibly in coordination with the theater complex.

Storage - Storage will be necessary for individual students at their work areas. It should be movable. Storage will also be necessary in the shop areas for light equipment such as audio visual equipment, hand tools, and camera equipment. A large general storage area could be located here also for general storage for the school. Storage for student projects will be necessary for exhibition purposes. Storage will also be necessary in the office areas, not necessarily fixed.
BIBLIOGRAPHY


9) Thompson, Ralph, Herron Art School, Assistant to the Dean.

building types study
SOURCES:
1) AD Vol 43 No 2 1973 Feb. p.117
2) AF Vol 137 No 5 1972 Dec. pp. 50-55
3) AR Vol 152 No 6 1972 Nov. pp. 95-104
- Exterior space & Library bothered by noise
- Roof - sawtooth skylight
  - Tubular tray system
  - Spans 12'5" ft.
- Studio - 4 stair step slabs
- Halls, classrooms & faculty offices wrap around studio
  on 2 sides
- Common lounges mark juncture at every level
- Under studios - 400 seat auditorium
  - 200,000 volume library
  - Technological workshop
- Designed by John Andrews, Anderson, Baldwin - Toronto
- Doubles as working school & alumni center
- Open studios (GERT)
- Building overall "embraces non-designers"
- Building cost 7,100,000 (50 sq. ft.)
- Building area 154,000 sq. ft.
- List of products - pg. 69 AF 1972 Dec.
- Program followed closely
- Removes barriers to interdisciplinary pursuits
- Emergency power - Cummins Diesel
- Architecture, LA, city & regional planning, urban design,
  advanced environmental studies, lab for computer
  graphics & special analysis
- Unit without hierarchy
- Slight changes in position as a viewer bring sudden changes in proportion & a look at new details
- Exposed reinforced concrete
- High overhangs - shade, but no protection from wind or hard rain
- Library & auditorium - first floor
- May be expanded
- Space for 500 students, 80 faculty, 50 administration
- Structural & mechanical systems exposed - partly as a teaching tool
- 11 foot deep main trusses
- Fireproofing - 1/8" intumescent paint on trusses \( \rightarrow \frac{3}{4} \) hr.
- Fire rating
- Green fire-proof fiberglass roof (self-extinguishing resin)
- Reflective glass used in most of east, south & west facades
- North face - clear glass
- Hot H2O convectors used to "wash" most glazed areas
- Natural light important in studios
- Support - standard fluorescent fixtures in low ceiling areas
- Indirect lighting w/1 the saw-tooth roof
- Main library, ground floor gallery, & office areas covered w/ metal batten ceiling in which fluorescent lighting has been integrated
- Spring '69 - students rebelled against build. - also some progs.
- "Identity of client always unclear"
- Studio - Students & faculty constantly exposed to each other
- Reallocation of space among disciplines can occur easily - hard for hierarchies to develop
- Dean Kilbridge - non-architect - points out that the non-existence of physical barriers might cause the creation of tighter psychological or personal & group barriers as a substitute
- Difficult to relate studio to known spaces
  - Stadium, cathedral
- Ambient noise from A/C is high - eliminates sharp noises from general clutter of drafting room
- Drafting boards out in open are preferred over those under ceilings. "Boards at edge of "cliffs" are most desired
- Outside - quick powerful changes
- Rational technology & science-fiction roof are most striking features
BSU College of Architecture (OLD BUILDING)

- COULD WALK THROUGH SPACES WITHOUT DISRUPTION - LECTURE EXHIBITION. STUDIOS WORKED THE SAME WAY - CIRCULATION WENT THROUGH SPACES
- PASSED SPACES COMING INTO BUILDING - LIBRARY, OFFICES
- OPERABLE WINDOWS - PEOPLE, AIR, TOUCH
- VARIETY - THE ELEMENTS OF AN EXISTING BUILDING WHICH ARE FORCED UPON YOU, SUCH AS STAIRS, MAKE FOR VARIETY
- THINGS WHICH ARE NOT CONSIDERED BECOME IMPORTANT

BSU College of Architecture (NEW BUILDING)
Sources:
1) PA Vol. 55 No. 7 1974 July pp. 96-103
2) AR Vol. 56 No. 5 1974 Oct. P. 34
3) PA Vol. 56 No. 7 1975 July pp. 50-59
- FOUNDATION BUILDING - 116 YEARS OLD
- IRON & STEEL EXISTING FRAMING
- 10" THICK BEARING WALLS
- CLOCK TOWER
- RENOVATION - FLOOR ONE - OPEN UP FOR LIBRARY
  - FLOOR TWO - FACULTY
  - 3 THRU 6 - STUDIOS w/ TOILETS, STORAGE & OFFICES
  - 8 - NEW SPACE CREATED BY EXPANDING CLOSET ROOM
- ROOF TOP GARDEN

- NY&LC - MULTIZONE CHILLED WATER STEAM ABSORPTION - UTILITY SUPPLIED STEAM
- VERTICAL CIRCULATION - CIRCULAR ELEVATOR CORES - PETERSON'S PROPHECY THAT ELEVATORS SHOULD BE CIRCULAR
- STRUCTURAL MEMBERS ENCLOSED IN FIREPROOF SHEATHING
- CORRIDORS & PUBLIC ASSEMBLY - REINFORCED TO TAKE 100 PSF LIVE LOAD
- "GREAT HALL" (BSMT. AUDITORIUM) - NEWLY RAKED SITTING SLAB
  SEATING REDUCED FROM 1500 TO 910
- SERVICES CONCEALED IN HIGH CEILING
- AREA - 145,000 SQ. FT.
- 90,000 VOLUME LIBRARY
- EXTERIOR LEFT LARGELY INTACT
- GLASS ENCLOSED ARCADE ALONG WEST SIDE
- EACH MAJOR DISCIPLINE OF THE SCHOOL OF ART AND ARCHITECTURE HAS BEEN ASSIGNED ITS OWN FLOOR COMPLETE WITH STUDY SPACES, CLASSROOMS, & OFFICES
- BROUGHT BUILDING BACK TO ORIGINAL SIMPLICITY
- PURIFICATION OF WHAT WAS ALREADY THERE
- ABUNDANCE OF WHITE IS USED
- KEYS TO RESTORATION - RESTRAINT, REFINEMENT, ELEGANCE & SIMPLICITY
- Gallery, offices, & study rooms overlook 1st floor library
- Details are simple, shows joints, not prominent at first
- Students there 1 year at time of article - some changes
  were necessary - some feel a modernist aesthetic has
  been imposed too forcibly
- Needed the most spacious, light-filled, flexible space
  possible.
- Students appropriated public corridors & foyers for
  exhibition & meeting spaces
- Partitions were put up in the painting studios - students
  want them removed
- Heiduk - "organic nature of architecture - that when people
  move in, things become distorted through use"
- "If neither the building nor the architecture destroys
  the other, one has balance."
- 50's & 60's - Rudolph, Kohn & Corrib - said best environment in which to teach architects was a great work of architecture schools throughout Britain such as the AA tended to go against this
- Area - 5600 m²
- Cost £641109 £113.49 per m²
- Workshops, demonstration rooms, laboratories for lighting, acoustics, thermal studies, wind tunnel, photographic rooms, library for 20,000 volumes & 60 readers, seminar rooms, college flat & accommodation for 180 undergraduates, 200 postgraduates, 85 full-time faculty
- Shared large lecture theaters
- Great pressure on economy
- Labs, workshops & practical rooms in basement
- Library - 5th floor
- 1st floor: exhibition space, offices, parking
- 2, 3, 4: student spaces
- Superstructure of reinforced concrete columns
- "Students have an abbreviated sense of time and tend to react rather than plan."
- Project was rushed
- Intention was to build a warehouse
- Planning of interior space can be uncoupled from planning of building
- Exposes the limitations of concepts of minimum specificity and maximum diversity as a rule for design
- Limited use of south facing glass
- Needs bicycle parking
- Studio space is much less open than it was in beginning because of movable screens
- Crossfall of site gives vehicular access to basement
- Studio space is open-ended - no enclosing walls
- Circulation has taken on some characteristics of typical corridor because of movable partitions
- Students search for personal identity
- Brickwork as main interior finish has limited the students' ability to vary his surroundings
- Cold colored fluorescent lamps produce ill-at-ease feelings in some students - reflected glare from sheets of drawings
- Wanted all studio on one floor but couldn't because of site
- Had large well for stair & also a large well at other end of building to connect 2 studio floors - they were not very successful - faculty had students design a scheme for filling it in - it became conversation area - has improved thermal characteristics
- Lecture hall is 2/3 size of student population - if entire body wishes to meet - facilities next door used
- No projection rooms
- Close relationship of staff rooms with studios is approved
- Need space for tutorial teaching
- Storage may become critical for student projects
- Library is now called information room & is very much used
- Exhibition space close to main entrance is very successful
- Generous space at main stairwell is used at 1st floor where students set up shop & sell paper etc. at lunch-time
- Students want more than vending machines & this requires space to prepare
- Reinforced concrete frame
- Student competition project
- Use of "EL" within complex
- Grass covered berm or hill
- Roof over perimeter areas is double-layer of translucent air supported plastic fabric
- Daylight "pours" through clear cover
- Lights at tracks illuminate cover at night
- Appears as though train is riding on cushion of air
- Circular cubicles on rolling casters fitted w/sliding doors for conferences between students & their faculty
- Music lounge
- Enclosed bridge with accordion folded joints reminiscent of mobile airport lounge joins the 3-story tower of the Student Union to the railroad core
Source:
AR V158 No.4 Sept 75 pp 81-88

- Pedestrian links above & below the street which form gateway
- Sculptured spaces provide sense of scale
- Complex environment near the street
Source:
PA June 77 p. 54

- Prestressed membrane structure
- Dressing rooms & storage are in space below stage
Source:
P.A. Oct 77 p.42

- Detroit Medical Center
- Angled Mirrors
- Light
- 13 ft square - 12 ft. above surface
Task Lighting

Source:
PA sept 1977 p.110

- By Lightolier
- The more static the plan, the easier it is to design a lighting installation
- Ambient/Task lighting is needed in flexible design
- Gable & Yeiling are basic problems with task lighting

- Circuitry, electrical panels, and distribution methods are important
Source:
PA Nov. 77 p. 135 Helios Tension Products

- Temporary shelter for lectures, performances
- Varieties of tension structures for exhibits, festivals
- See Chrysalis - PA Feb '77
RESTORATION PLAZA SHOPPING CENTER

SOURCE:
PA November 17 pp. 80-84

- Use of renovation process as a design tool rather than a limiting constraint
- Design in an urban context
- Circulation directly through shopping center allows for people not normally in contact with it to use area
Source:
PA Nov 77 p.77

Schulitz House, Beverly Hills, California

Pre-industrialized Components

Sun Screens of Canvas or Nylon
sketchbook
14 Dec 77

- The more static spaces such as circulation, offices should be more static in form - possibly unitarian
- The flexible spaces such as studios, workshops \\& exhibition should take a more mobile form - possibly a truck - o unit of the building which can be mounted on a semi or a trailer plane
- Possible use of precast building units - the shop could be set up on site such as the way the Habitat by saarinen was constructed
- A tension structure such as ottos Curt concept
The use of the second level extensively increases the use of the City of ... the Density

Concept 2.

What amount of town's would be running for $X per night?

Soundwall - what can it be?

Bob Koester
Stan Adams

[Diagram of buildings and layout]

Fire escape at entrance.

Visual Trains

Emergency Exit

Entry to 1st floor & second level

Upper level

[Notes on viability and need for physical entry]

Theater & NC.

Also exciting is the potential for community.
11-Jun 78

Balance

- Should work spaces be separated?
- Work areas need to be very light & airy

- Pencil the roof of the train sheds

Concept #1: Locate building on block north of theater & Georgia
Concept #2: Actually 2 buildings - connected by tunnel
Concept #3: Work @ ground level - don't extend corridor

#2 - Could spread onto other lots - across Illinois - would be closer to city & airport - would be in queen Boyd Hotel
Concept #3 - Could be connected either by underground or elevated Denme Public From public

Concept #4 - Relieve the boredom or either extreme
- Do not extend corridor, terminated by tunnel & used as the barrier even greater.

Blow up

Concept #2
This student is responsible for the sun screens.

The building could go underground at the same angle.

* * Cameras could be set up at various places in the city & displayed at the architecture building.
23 Jan 78

University of Texas

CIRCULATION - HIGH CONTACT

CIRCLING THINK ABOUT PERSISTENCE

PERFORMANCE REQUIREMENTS WILL DEFINE

CIRCLE CAMPUS - NETWORK

ANTI-HIGH STYLE

RANDONNEURS

Ball State (old book)

The library should be on the second & third floors to be close to public & studios
Should it be more of a machine? Warehouse

- Visual
- Accepts pedestrian
- Catches summer winds
- Deflects winter winds
- Responds to Frank Plant created

By: Theater
  - Union Station
  - Atkinson Hotel

Possible gap in building:

Song type of cover in winter,
for aesthetic effect

Possible level circulate to define public

Could be workspace,
found on steel

Visual relief for spines in text

* Possibly 2 buildings spaced

* Structure exposed

* Entry to Atkinson @ second level
The school requires its own identity.

The second level becomes the most important w/o overwhelming.

With the second level being the activity center, it can be responded to from both directions.

↓ ↓ ↓ ↓ ↓

Second level
↑ ↑ ↑ ↑ ↑

Make connection to third level from studio in train sheds.

What could the respective train sheds be used for?

One way glass in end wall of studio.

* Camaras to show various areas in the city - take advantage of the site.
  - Lounge/restaurant?

The idea of 2 buildings - could have totally independent buildings - visually - spatially - material?

* The 2 kinds of space, public and private, could be merged - they could mix more strongly.

Exhibit? Lounge? Library?

No windows?

Reading/office/checkout?
25 Jan '78

* A room w/ the studio or research room with total natural lighting and a variety of backgrounds (projected possibly) for photographing of models

26 Jan '78

Architecture is people - the building should respond to people as far as the student is concerned.

29 Jan '78

The idea on the previous page could be taken even further & make 2 studios even less rigid & more broken up - like a pile of sticks randomly placed - looking into one another.
31 Jan 78

Separate block. Connected like Mulliners Theater or作文意 City

Could cover area with tension structure
Second level connection - exhibition spanning
- Lecture could sit in a two level
cold overlook
- Classroom's disc.

1. Studios need to be broken up to greater extent
   5 intersection of studios is critical

2. Building should look out to the city to a greater extent
   (could break up the public space)

3. Go down into ground further
   - studio, lecture, theater
The cave creates more variety in views.

- Critical access to sections of site.
- Roof finishes.
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- Roof finishes.
Close to corridor reading room and product design furniture

- Studios face east
- Offices face north
- Classrooms & support facilties face south

Key rooms of interest about thermodynamics

- View to the south tends to tie the spaces without the trees create

Leopore circulation

Leopore is

Exhibit

Studios

STEP DOWN

* Step studios down behind to north & place exhibition or lounge there

PREVIOUS LEVEL OF THEATER
Step Round Back & Forth

6 FEB 78

Mitchell / Giurgola
United Fund of the Philadelphia Area

Cutting the Block. Lean to Great Angle.

San Francisco Art Institute
71, 2, 3
Arad Forum 132: 80-5 10 70

* Pronounce Lecture Hall to Greater Degree

10 FEB 78

Outside Eating

Pine Wall

Lounge

Outside Eating

Provide

Lounge

Proprietary

Water

(Expand across north. Fall to poster second level condo)
Views change as you move vertically & horizontally in studio spaces.

11 FEB 78

Views are most important in the studio space

6° studio is on top

6° studio opens to both sides

6° then for 360° vision

Public spaces need to relate to street & 2nd level walkway

Studios look out over train sheds to show different aspects of the city

Studios view a wide variety of the city

Cameras in various areas to show what goes on in other places

Variety is important both within city & architecture of building

Studios stacked vertically would be a simpler structure.

Studios staggered would be a better space

Better communication

Variety in the building

Drawing - Self Portrait

It is good for a student to be able to influence his environment if they want to

- Sunscreens
- Movable panels

Slow section through train sheds

Put the circles on over the grid to determine the influence - diameter
I CAN USE THE TRAIN SHEDS BECAUSE
- AT PRESENT: ONLY 2 TRAINS THROUGH PER DAY
- NEW TRANSPORTATION CENTER WOULD ONLY REQUIRE: 3 TO 4 TRACKS
- RAISED FLOOR TO ENSURE SILENCE

BUILDING HAS 2 SIDES - NOT FRONT & BACK
- CONTROLLED BY TYPE OF INPUT THEY RECEIVE.

BUILDING IS ACTUALLY 2 BUILDINGS AS THE MODEL DEMONSTRATES:
- LOWER PUBLIC - PROJECTS OUT TOWARDS CITY
- UPPER PRIVATE - PULLS BACK & LOOKS IN BOTH DIRECTIONS
- PUBLIC HAS FRONT - ACCEPTS PUBLIC
- PRIVATE HAS NO FRONT OR BACK

- SEPARATION OF PUBLIC & PRIVATE ALLOWS FOR A SEPARATE IDENTITY FOR THE STUDENT PORTION OF THE BUILDING - WHETHER THEY LIKE IT OR NOT, IT DOESN'T REALLY MATTER.
- THE BUILDING WILL NOT ENCOUNTER MOST OF THE DISAGREEMENT THAT OTHER ARCHITECTURE SCHOOLS SUCH AS ISSU ENCOUNTER BECAUSE IT IS A TOTALLY NEW SCHOOL - NOT JUST A NEW BUILDING.
- STUDIES BECOME IDENTIFYING ELEMENT FROM A DISTANCE
- UPPER STUDIOS WOULD PROBABLY BE BETTER FOR LATER YEARS
- MOVING THEM THE STUDIOS WITH DIFFERENT YEARS PRODUCES A DIFFERENT ASPECT OF VIEW.

FROM THIS POINT - STUDIOS ARE TOO MONUMENTAL & BURN OUT - GO TO GRAD STUDY & START PUSHING & PULLING STUDIOS

START TO MAKE STUDY MORE IDENTIFIABLE WITH ELEMENTS AROUND IT SUCH AS CLOCK TOWER, ETC.

- SUPPORT ELEMENTS BELOW GRADE BECAUSE THEY DON'T REQUIRE NATURAL LIGHT
- THE 2 LEVELS OF LIBRARY TOGETHER BY GLASS WALL SLOPED - TOP OVERLOOKS
- LIBRARY STACKS SHOULD NOT HAVE DIRECT NATURAL SUNLIGHT BECAUSE OF WM FOR BOOKS
- OPEN 2 LEVELS OF LIBRARY MORE TO ONE ANOTHER
- MAIN OFFICE ON 1ST FLOOR - CONTROL ENTRY - EXHIBIT - WHERE IT IS EXPECTED TO BE - INFO CENTER FOR VISITORS - EASY ELEVATOR ACCESS TO FACULTY OFFICES & STUDIOS
- 2 OFFICES CONTROL BASEMENT - PERIODICALS & DARK ROOM OFFICES
- GENERAL SPEAKING SPACE IN BASEMENT & 1ST FLOOR
- FACULTY OFFICES COULD POSSIBLY BE SPREAD OUT IN STUDY SPACES - HOW TO KEEP? FIX IT NOW!
Lecture Hall opens to both public levels

In Site Analysis: Break down note - bring rich into site

Elevations?

Putting public below grade would be too much layering for individuals
No level walkway already makes it go up - going down would increase this

Functional time spaces work better in the lower level

Structure

Patio entry needs to be worked with

Patio tends to be deadspace - work with it more

Relation - hipp street is not strong enough yet

Sensitivity to structural effects in section

The verticality close to the barrier could help to step across
Especially if waterfront thing occurs across barrier

Exhibition needs stronger link to studio

Studios need to be different kinds of spaces for variety and identity

The structure exposed relates to unfinished quality of studio interior

Steel - light activity

Concrete - heavy - service

P - More interplay in the studios - between faculty, students, etc.

Outdoor editing & lecture can be covered

View up & down Illinois is most active - so building is perpendicular to it.

Key Issues - Presentation

- Lecture location? (Swich with office)

Exhibit vs. circulation

Studio vs. circulation

Massing is good - from outside curve is good

Massing of space

Work up view from terraces to

Opposing element to tower of Union Station to make termination

Fire stairs - move - better location - choice of where to go

choice & variety
Roof Space

Relation to Theater

Curves look inward in front, outward in back - bad?
Could possibly do something different in back.

Stronger site analysis - presentation - tie between macro & site.

Put upper level on model.

Variety & choice - smaller.

Feeling views - glimpse - frame - podium.

Circle campus - several metal buildings.

- People disoriented
- free form

Work on studios - check spires.

3/6-78

[Diagrams and notes on various architectural details are present, including roof sections, views, and annotations.]

Low wing could come closer to street & use level.
STUDIO TO LOUNGE - PROOF?

SUN COULD PENETRATE THIRD HOLES FOR VISUAL?
DIFFERENT GRID - TRIANGULAR?
- EQUILATERAL TRIANGLE

VARY STUDIO ANGLES - RELATES TO VARIETY

SPACES UNFOLD

ILLINOIS OR TUGGER
LOWER FACING COULD MOVE UP & DOWN WITHIN GRID

Single panels could be placed at various locations to define facade

ENTRY TO SUPPLY TOWER COULD BE ON HUMIDS QUEEN & CORRESPOND TO ELEVATION AT 11100


dourt

1ST WEEK: APR. 10-11-13-14 - MID QUARTER REVIEW
2ND WEEK: MON 8-9-11-12 - FEATURES

1 DESIGN CRITIQUE PRESENT @ ED. JURY

1ST WEEK & 2ND WEEK - SITE & MEAS. CRITIQUE - DOCUMENTED ON 2nd EFF. REASON PRESENT

MID QUARTER REVIEW
- STRUCTURAL & MECHANICAL DSS SYSTEMS IN DETAIL
- PEDESTRIAN & VEHICULAR TRAFFIC - EXPLICITLY DEFINED
- NODES, ENTRY POINTS
- NESTED SELECTION IN EVERY PORTION
- LIGHT
- SCALE

1 WEEK REVIEW & CHANGE FROM Last KEY
2 WEEKS - Design Development

FINAL - 7th & 8th Weeks to Prepare
- PROGRAM - WITH REVISIONS & ADDITIONS - BUILDING TYPES STUDY READY FOR REVISION
- SITE ANALYSIS - WITH REVISIONS - EFFECTIVE GEOGRAPHICALLY
- DRAWINGS (MODEL) FROM LAST QUARTER
- SITE PLAN & MODEL
- FLOOR PLANS & ELEVATIONS (MODEL)
- Could do small perspective & have blown up
- Wall section or detail (Passing)

Mid Quarter

Plans & Sections & Good Working Models

Schedule

17 March

Russell - Denver Opera House

Studio Lounges
Lecture

Pedestrian

Sanctum

Lounge

Just that what is necessary around stairwells

203-1978

Loading

Shop

Sp.

Lecture

Entry from rear

Entry

Open Entry

Office

Closed Entrance on second level

Library

Plaza

Plaza

Supply

(Reproduced)

203-1978

TURN LECTURE AT 45°

2nd Floor Entry

2nd Level Entry

Store
The theatre is at a 45° L within its site - relate the 45° L of the lecture hall pilaster

Exhibit

Exhibit 2 Level 1
Circulation
Exhibit 2 Level 2

Upper exhibit (exterior lavender)

Lower exhibit (exterior lavender)

Stair towers can be of similar configuration to be read from exterior - also visual tie of sides of building - makes it recognizable. Variation of openings differentiated from within.

Supply core is a box building turned sideways? - relates to other core buildings downtown.
- Facade – solid vs open – dorm (loogers)
- Windows rel. to auto (multi-tech)
- Tower element could be contrasting – solid element
- Red vert. circ
- Choice based on variability
- Finding a person

- Visual bet. shed studios & library

- Bob Geddes – multi-function

24 Mar 78

Stairs become linking element between lower & upper
CIRCULAR GRID OVER SITE TO LAYOUT LOWER TWO FLOORS

26 MAR 78

CIRCULATION PATTERNS

<table>
<thead>
<tr>
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<th>34.00</th>
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<tr>
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28 MAR 78

WORK WITH STAIR IN LOBBY - ORDERING ELEMENT - BASEMENT - NOT TURBOPHOSUI INTO STUDIOS

CONCERN OF EXPRESSING STAIRS ON INSIDE OF BUILDING - NOT ON OUTSIDE (EXCEPTING ENTRY VERANDA)

SEGMENTED WHAT THE BUILDING SAYS - SYMBOLOGY

SEPARATE GRID FOR THE STAIRS

BUILDING IS POSSIBLY OVER-ARCHITECTURED - FEEL BALANCE OF THE ROOM

FREE STAIR ON AN ANGLE

SQUARES ARE MOST IDENTIFIABLE ELEMENT

THE HIDDEN STAIR

MORRIS - TURNBULL - SEE DESIGNS

OUTSIDE LOYER

TWO SEPARATE FOCUS - INSIDE & OUTSIDE
Leave front open as it is (curved wall can be opened in portions).
Use different type of opening in side walls (smaller).

Rear facade.

Different floor heights as you go up for variety.
Is symbol of optic?
NEED SOMETHING TO LOOK AT WHILE WAITING FOR ELEVATOR VIEW

3 APR 75

MECHANICAL - FEED FROM BELOW & ROOF & BELOW SITCO STUDIOS

LD 3 ZONES

OR

FROM SITCO STUDIOS & BELOW MAIN BUILDING?

THERMOSPACING - NEED SINK?

ARE FOR VERTICAL CLIMATE?

6 & 24FT CLIMATES VS. 1

TYPE OF MECH. SYSTEM - STEAM AIR RESISTANCE?

ROSENMAN - DON'T OVERMETAL GRID - SOME VARIETY IN SPACING IS NEEDED

- BACK WALL IS NOT RECOMMENDED

2ND CRITICISMS.

STAN DOOMS

WALLS, GL., ROOF, FROST, FRESH AIR -> HT. LOSS & HT. GAIN CALC.

\( Q = \text{CFM} \)

DUCTWORK

20' FEET FOR GENERIC SPACE LIGHTING & STUDIO

NEED TO CIRCULATE AIR.
HEAT LOSS CALCULATIONS – WALLS, GLASS, ROOF, PEOPLE

LIVABLES
STUDIO WALLS
LOWER LEVEL WALLS
GLASS

<table>
<thead>
<tr>
<th>4&quot; EXPANDED POLYSTYRENE</th>
<th>2' CONCRETE PANEL</th>
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</thead>
<tbody>
<tr>
<td>1/2&quot; SHEETROCK</td>
<td>2' EXPANDED</td>
</tr>
<tr>
<td>AIR SURFACE (STILL)</td>
<td>POLYSTYRENE</td>
</tr>
<tr>
<td>AIR SURFACE (15 MPH)</td>
<td>1/2&quot; SHEETROCK</td>
</tr>
</tbody>
</table>

\[ R = 4.43 \quad U = 0.4 \]
\[ R = 11.53 \quad U = 0.051 \]

\[ SQ FT = 16,000 \]
\[ SQ FT = 12,000 \]

16,000 \times 0.05 \times 75 = 60,000
\[
\frac{28,000 \times 4 \times 75}{60,000} = 240,000 \text{ Btu/h}
\]

\[ 12,000 \times 0.09 \times 75 = 81,000 \]

\[ Total \text{ Btu/h} = 96,000 \]

ROOF

\[ R = 10.21 \quad U = 0.1 \]

\[ SQ FT = 42,240 \]

\[ 42,000 \times 0.1 \times 75 = 315,000 \text{ Btu/h} \]

\[ Q = \frac{H.I.}{1.08(48-t)} \]

\[ Q = \frac{1.29 \times 1000}{1.08(60)} = 900 \text{ cfm} \]

Recommended Duct Velocity of 2000 FPM

Duct Size (Main Vert. Trunk)
6\(^\prime\) 40" x 35"
SAFE TB

- Since it is an air system, air conditioning could be added at any time by owner - just need space for coils
- Windows could possibly be horizontal pivoting & be salvaged from old factory building downtown.
- Old factory aesthetic references as opposed to high tech.
Koester

Steel vs. Bearing Wall
Lecture Ceiling & Walls
Lecture Shell
Roof Structure over Lecture Hall
Floor System - 2-Way vs. 1-Way
  - Conc. vs. Steel
  - Plate vs. Waffle
  - Triangular cuts?
    - Beam or 2-Way
    - 3-Way Connection

Stabilization of Structure - Diagonal

Ybor Koester

100 psf Live Load

6" Series Open Web Joists

Flat Plate Conc. Slab → 150 lbs/cuft.
.60 cu.ft./sq.ft. → 7.19" thick → 90 lbs/sq.ft.
2 psf Beam Steel

100 psf Live Load
90 psf Conc.
2 psf Steel
2 psf Mechanical

194 psf + Nat. of Beam.

\[
\frac{256}{4} = \frac{49.164}{4} = 12.416 \div 16 = \frac{310.4776}{8} \text{ kips}
\]
Using white interior walls & curved rear wall & flat plate ceilings allow the student to become more active in the design of the space.

Double wall (as opposed to single wall) tends to balance out repetitive angular forms so that neither becomes too dominant.

⇒ Take out all horizontal on outside & leave only verticals. Could be some crossbracing or horizontal bracing. Ability to make connection would still be there.

Changes in ceiling height other than open opening up for 2 stories.

@ 10 April

Model of Project: Speaker down middle of faculty offices w/ gaps between.

My Project becomes a transition between Library & Theatre.

Angle of main vertical circulation becomes unifying element inQuick Fitfab, + CAF.

Steel columns coming down through 1st & 2nd floors represent presence. Studio as dominant feature in building - studios have physical influence in the rest of building.

Distinctive (Red)

Density of columns relates to other building's low levels.

Steel in concrete forms.
TRIANGULAR STAIR ELEMENTS
- allowances large horizontal suspension looking out
- allow for access from unit side
- angle relates to angles of lower building
- angle relates to grid relates origin studies
- angle looks toward center of city as building rises
- transition in scale of lower portion
- overall containing elements of lower studies

Left grad can also provide a reference than the (use we have)

BIN SPACE (250) DOWN SIZE OF BUILDING & ANGLE-TUBE CONNECT
USE TUBES — IF LEAN

11 APR 78
- change level outside instead to just sit in sun
- lower finger - access to top of it for sitting

12 APR 78
CURVE BREAK SPACE UP — INTO SMALLER UNITS
DRAW FACULTY OFFICES IN 2ND FLOOR PLAN (6)
PARAPET BUILT INTO OR ATTACHED TO SUNS
PIPE ROLLING BECOMES UNIFYING ELEMENT BECAUSE OF EXISTENCE IN PIPING OF BUILDING

PAUL Lasseau - AREA GRAPHIC PROBLEM SOLVING - BOOK FOR GRAPHIC PROBLEMS
15 APR 78
- Painted Seminar Room w/Dean's Office & Secretary

17 APR 78
Add clean-up & spray painting to studios
Work w/openings through studio floors curve
Rosenman Talk - after mid quarter presentation

- Add more or just refine?
- Too complex?
- Work on facades. Who to talk to?
- Interior perspectives.
- Rel. bet. projects.
- Student lounge area.

\[\text{189627B}\]

\[\text{Semblance to flowing water?} \]

\[\text{Monument - just a tower becomes monument} \]

\[\text{Light selecting up to warriors & fresnel warriors + lenses} \]

\[\text{Work with relations to rigid forms behind} \]
* CURVED WALL & CURVED PLAZA REINFORCE CURVE BACKGROUND OF STUDIOS & MEANING OF THIS
* INTERIOR OF STUDIO IS WHITE OR 'UNLOOSED' (EISENHARD) - WAITING TO BE LOOSED
  - SIMPLIFYING BUILDING RESISTS IDEA OF REMOVED OLD BUILDING
  - EXHIBIT CAN FLOW DOWN WITH THE LOUNGE - CONTINUOUSLY CHANGING EXHIBIT, CRIT ROOMS
  - HOW WOULD WATER WORK TO REFLECT & REFRACT LIGHT
    • COLORED WATER
  - LINE OF STRUCTURAL 'T' CAN SLOW UP ON INTERIOR - POSSIBLY PROJECT OUT TO BE PHONE BOOTH / SHELF / ETC.

19 APR 78

Beam running across stair towers relates to old fire stairs / exposed mezz.
   • How fire stairs?

20 APR 78

* Imply the tower but don't actually build it
  - Ask art smaller
Rel. to cornice line? - Stone Depo.; on station

EAST ELEVATION
Adoptions
1. Display in Supply Store
2. Front "Wall"
3. Outdoor Lounge (change color, roof, roof over 2nd level walk, sun screens)
4. Columns under 2nd level walk
5. Bridge to train sheds
6. Punch holes in ceiling studio bridge
7. 2nd level walkway over street
8. Columns framing inside
9. Floors in studio

* Next quarter

Drawings
- Accept - Pessoon - 2p: A-Line
- Buy role of 1000 ft
- H lead
- 30 ft
- .00 (2 mm) pen point

6 May 78

Square Footages

Supply Space - 2880 SF
Rest Rooms (5) - 1536 SF
Exhibition (Main) - 1536 SF
Storage (Main Fl) - 1664 SF
Main Office - 2752 SF
Tool Storage - 320 SF
Shop Super. - 100 SF
Shop (wood. metal) - 5632 SF
Lecture - 4096 SF
Library - 16640 SF
Mechanical - 6016 SF

43172 162

Storage (Basement) - 34560 SF
Darkroom - 1536 SF
Photo Office (incl. Pro) - 352 SF
Environ. SM - 920 SF
Student Media - 1152 SF
Visual SM - 1024 SF
Research - 2135 SF
Deli (incl. Kitchen) - 1984 SF
Faculty Offices (4) - 4508 SF
Classrooms (8) - 4752 SF
Seminar (4) - 1536 SF

23,355
STUDENT PROJECT STORAGE - 900 SF
LOUNGE - 640 SF
CLEAN-UP AREAS - 660 SF
STUDIOS - 3696 SF
STUDIO EXHIBIT - 1536 SF

TOTAL - 10,497 SF + CIRC.

Floors that change length in 3-dimensions as opposed to floors that are open to one another.

Variations on this idea - not to be small.

Operable portions in glazed walls similar to openings in opaque walls.
406 - INTRO PRESENTATION

SITE - INDIANAPOLIS CENTER OF INDIANA
- Corning & Illinois
- Benefits of CM
- Lufkin - Reuben
- Variety

CONTEXT - IMMEDIATE - UNION STATION - PROPOSED PLAZA CENTER - NOT JUST SCHOOL

BUILDING - SCHROEDER KING - NOTE: MAIN IN LOWER FLOOR ONLY TOP
- BASEMENT
- 1st Floor & 2nd

STEP UP TO OVERLOOK BOUNDARY

RESPOND TO DIFFERENT SIDES
USE OF OUTDOOR SPACES - ROOFTOP
WALL - RESPONSE TO STREET & PLAZA

STRUCTURAL
MECHANICAL
DETAILED - WINDOWS

17 Jan 78

- BRICK ERODING OUT FROM BRICK COLUMNS
  GREY BRICK
  GREY ARCOLES
  LEADING IN COLOR OR CHANGING COLOR
- Colored pencil on prints for presentation

30 July 78

Provides inspiration for students - not only initial work but also in how they set up their studios - somewhere in between setting it up for them & doing nothing at all.

27 July 78 A new building would not be very significant experience for an art or architecture student. One of the initial experiences should be to deface the building to give it personality & human movement (unlike future art & architecture building)

3 Aug 78

NA

4 Aug 78