

**HPB22-0505  
HISTORIC PRESERVATION BOARD  
FINAL SUBMITTAL  
MARCH 7, 2022**

## **Collins Park Performing Arts Venue Rotunda**

**2100 Collins Avenue  
Miami Beach, Florida 33139**

## **HISTORIC RESOURCES REPORT**

**PREPARED BY:**



**2780 SW Douglas Road, Suite 302  
Miami, FL 33133  
305-445-3765**

**FOR:**

**MIAMI BEACH**

**CITY OF MIAMI BEACH  
OFFICE OF CAPITAL IMPROVEMENT PROJECTS  
1700 Convention Center Drive, Miami Beach, FL 33139**

# **HISTORIC RESOURCES REPORT**

**HPB22-0505**

**HISTORIC PRESERVATION BOARD**

**FINAL SUBMITTAL**

**MARCH 7, 2022**

**MIAMI BEACH**

## **Collins Park Performing Arts Venue Rotunda**

### **TABLE OF CONTENTS**

#### **Section**

- 1      1962 Miami Beach Public Library Building Permit Card**
- 2      Historic Resources Report**
- 3      Photo Documentation – Historic Photos and Site Photos**
- 4      Biographical Sketch and Resume - Albert Vrana**
- 5      Microfilm Records 1962 Miami Beach Public Library**



**2780 SW Douglas Road, Suite 302  
Miami, FL 33133  
305-445-3765**

MIAMIBEACH

Collins Park Performing Arts Venue Rotunda

1

**1962 Miami Beach Public Library  
Building Permit Card**

**MCHARRYASSOCIATES**

Owner MIAMI BEACH PUBLIC LIBRARY

Permit No. 66721 Cost \$353,000.00

Lot City Park Block W. side Collins Subdivision M.B.I. CO. O.F.  
General Contractor Millman Construction Co.

Address 2100 Collins Avenue

Architect A. Herbert Mathes

Bond No. -

Engineer Oboler & Clark; Henry J. Nelson

Zoning Regulations: Use REE

Lot Size 400' x 300'

Building Size: Front 235'

Height 20'

Stories 1

Certificate of Occupancy No.

Use LIBRARY facilities with Meeting Room

Type of Construction CBS I

Foundation Concrete Pads

Roof Flat

Date Jan. 24, 1962

PLUMBING Contractor

Sewer Connection

Date

Temporary Water Closet

Water Closets

Down Spouts

Lavatories

Wells

Bath Tubs

Showers

ROUGH APPROVAL

FINAL APPROVAL

Sinks

Dish Washing Machine

GAS Contractor

Date

Laundry Trays

Gas Ranges

Gas Frylators

Laundry Washing Machines

Gas Water Heaters

Gas Pressing Machine

Drinking Fountains

Gas Space Heaters

Gas Vents for Stove

Floor Drains

Gas Refrigerators

Gas Steam Tables

Gas Broilers

GAS Rough APPROVAL

GAS FINAL APPROVAL

Grease Traps

Thermal Cooling, Inc.:

#67037

AIR CONDITIONING Contractor

Install 1 - 100 ton air conditioner, built up system -

\$30,000. - 4/3/62 OK Plaag 11/26/62

SEPTIC TANK Contractor

OIL BURNER Contractor

SPRINKLER Contractor

ELECTRICAL Contractor

Date

Ranges

Temporary Service 1 .. #57835

Neon Transformers

Sign Outlets

Meter Change

Centers of Distributions

Service

Violations

Date

OUTLETS

Switches

Lights

Receptacles

Refrigerators

Fans

Motors

Appliances

HEATERS

Water

Space

FIXTURES

Electrical Contractor

Date

By

Date

J. H. Gresham Inc. - 1/19/62  
OK Scarborough 1/22/62

FINAL APPROVAL

## Building Permits:

#2890-Weathertrol Maint. Corp.- cooling tower-2-15-74

4/13/81 - #M05173 - Socar Service Corp. - 1 hot water boiler - NC

#M06699 4/24/84 Temptrol Air Cond 100 tons air cond wind, replace exist water cooled 100 ton chiller with a new  
100 ton air cooled chiller with remote condensers City project Bid 23-84

#28448 5/9/86 Arkin Const - monument, pedestal & bust (Jose Marti) n/c

#29875 2/20/87 Browns Roof - reroof 8 sqs \$1,600.

#92233 - 8-27-87 - MCO Construction - Partition and 2 baths (Interior Remodeling) - \$7,800.00

#M9421 - Solo Air Condition - Mechanical Ventilation - 9-30-87

## Plumbing Permits:

Building Permits:

PLUMBING PERMIT

#55868-Peoples Gas System- meter set(gas)3-10-78

4/16/81 - #59418 - Socar Service Corp. - 1 gas piping- NC

5/26/81 - #59520 - 1 Meter Set (Gas)

#63458 - Ramon Guillen Plumbing - 1 Drinking Fountain, 2 lavatory, 2 water closet - 9-10-87

ELECTRICAL PERMITS

Electrical Permits: #82352 - Chino Electric - 2 Switch outlets, 2 light outlets, 6 receptacles - 9-8-87

# COASTAL CONTROL ZONE

## CUMULATIVE COST OF CONSTRUCTION OF PERMITS ISSUED

DATE ISSUED	PROCESS NO.	DESCRIPTION OF WORK	WORK		CUMULATIVE WORK COST	APPRAISED BLDG. VALUE BEFORE REMODEL		COMMENTS	BUILDING PERMIT NO.	
			COST				%			
8-27-87		Partitions	\$7,800.00							92233

# COASTAL CONTROL ZONE

## CUMULATIVE COST OF CONSTRUCTION OF PERMITS ISSUED

DATE ISSUED	PROCESS NO.	DESCRIPTION OF WORK	WORK COST	CUMULATIVE WORK COST	APPRAISED BLDG. VALUE BEFORE REMODEL %	COMMENTS	BUILDING PERMIT NO.
7-1-88		PEROOF 1159.	\$22,000.00				5B881164
12-16-88		INSTALL NEW BOULT UP ROOF on section	\$3,000.00				5B880398
3-24-89		INSTALL BRISTOL lite skylight	\$17,000.00				38900206
6-6-89		POUR concrete slab place tiles	\$1,500.00				5B891405

BUILDING PERMITS:

#SB881164 - 7-1-88 - Golden Eagle Roofing - Reroof 11 sqs. - \$22,000.00  
#SB880398 - 12-16-88 - Unlimited Roofing - Install new built up roof -\$3,000.00  
#B8900206 - 3-24-89 - Ideal Roofing & Sheet Metal - Install bristol lite skylight  
\$17,000.00  
#SB891405 - 6-6-89 - MCO Construction - Pour concrete slab place tiles -\$1,500.00

PLUMBING PERMITS:

#P8800147 - Jaffer Associates - Discharge well - 11-17-88

MIAMIBEACH

Collins Park Performing Arts Venue Rotunda

2

## Historic Resources Report

## **HISTORIC RESOURCES REPORT**

The existing Rotunda building in Collins Park was originally a multipurpose assembly room of the Miami Beach Public Library designed by A. Herbert Mathes and completed in 1962. The Rotunda design included sand cast concrete panels attached to the exterior which were created by artist Albert Vrana and titled “The Story of Man,” referencing the role of the written word in the development of human culture.

The first structure built in Collins Park was the John Collins Memorial Library designed by Russell Pancoast and constructed from 1930-1934. The Collins Library expanded with building additions over the years until 1962 when the Miami Beach Public Library was built immediately to the east. At that time, the Collins Library became the Bass Museum of Art. When a new Library designed by Robert A. M. Stern was constructed at 227 22<sup>nd</sup> Street in 2004, the 1962 Library building was demolished, except for the Rotunda.

The Rotunda architect A. Herbert Mathes completed many projects in Miami Beach. He was responsible for the design of the Byron Carlyle Theater, an addition to the Fontainebleau Hotel, and hotels including the Parisian, the Continental, and the Allison, among others.

Albert Vrana (1921-1994) was an artist known for monumental sculpture completed during the mid-twentieth century. He said, “My approach is different, yet traditional, in that much of my work is integrated as part of the structure and related to the specific building in both design and materials, in harmony, not conflict, with the architecture.”

In addition to the Rotunda, there are other large scale Vrana works in South Florida, notably the sculpture on the Charles E. Perry building at FIU main campus, “The Obelisk” at The Arlen House Condominium in Sunny Isles Beach, and the six-story façade of the UM Health System Professional Arts Center building in Miami. Vrana’s work is mainly found in Florida and the American Southeast.

There are limited as-built construction documents in existence for the 1962 Library and Rotunda Building. The Rotunda is cast in place concrete and masonry infill construction, circular in shape with its main floor level cantilevered over a fountain. Historic photos show an active water jet feature affixed to the underside of the cantilevered portion. It has two window walls of translucent material spanning the height of the structure on the east side of the building. The Rotunda’s main floor level occupies the full footprint of the building and there is a smaller concrete mezzanine level which contains a projection booth space and a mechanical room for the air conditioning equipment. In 2008, a renovation of Collins Park and the adjacent surface parking lot commenced. As part of this work, the Rotunda fountain, which had become a planter by that time, was restored to functionality. The active water jet feature was not re-introduced. Steps, gates, and doors were installed at the main entrance point, and all interior finishes were demolished during the Collins Park renovation project.

## EXISTING CONDITIONS

### GENERAL:

Now 60 years old, the building has withstood the test of time with no major structural deficiencies found. The building is entirely circular except for the remnant of its connection to the former library which now appears as a rectangular portal. The existing door next to the main entrance was the Rotunda's second means of egress and originally had a landing and steps on the exterior, which are now not present. The existing fountain, which is not a complete circle, is functional.

### STRUCTURAL:

The existing Rotunda's main floor and walls are cantilevered approximately 4'-9" from a base structure for nearly the entire circumference of the building. This cantilever does not exist at the main entrance point, where a perimeter structural wall connects directly to the ground. A few locations at the underside of the cantilevered building structure were found to have chipped or missing concrete. At the window wall locations, small portions of the concrete slab are missing and one ledger angle connector at the bottom of an art panel was severely deteriorated. Repairs to these conditions will be included in the current project being developed by the City of Miami Beach Office of Capital Improvement Projects.

### ART PANELS:

In general, the art panels and their connections appear to be in satisfactory condition. Historic photos indicate cast in place concrete tie beams are present at the panel connection locations. There are a few panels in the bottom row which are chipped or damaged at the base of the panels, especially at the window wall locations where panel corners are exposed. A comprehensive study of the condition of all panels and the condition of their connections to structure is planned by the City of Miami Beach Office of Capital Improvement Projects. Repairs to the panels themselves would be included in that project.

### INTERIOR:

The existing interior of the building has no finishes, no air conditioning, and minimal electrical and lighting. The building structure is exposed throughout, including the steel joists and roof deck. The translucent window walls are in place. Electrical panels which serve Collins Park and fountain functions, and a telecommunications panel are present on the ground floor in the southwest portion of the building.

## Photo Documentation

Historic Photos

Site Photos

1941 aerial photo of Collins Park in upper right quadrant of image,  
John Collins Memorial Library with south wing built:



1959 aerial photo of Collins Park in upper right quadrant of image,  
John Collins Memorial Library with north and south wings built:



1969 aerial photo of Collins Park, in center of image,  
1962 Miami Beach Public Library built:



1960s aerial photo of Collins Park:



Architect A. Herbert Mathes rendering of 1962 Miami Beach Public Library:



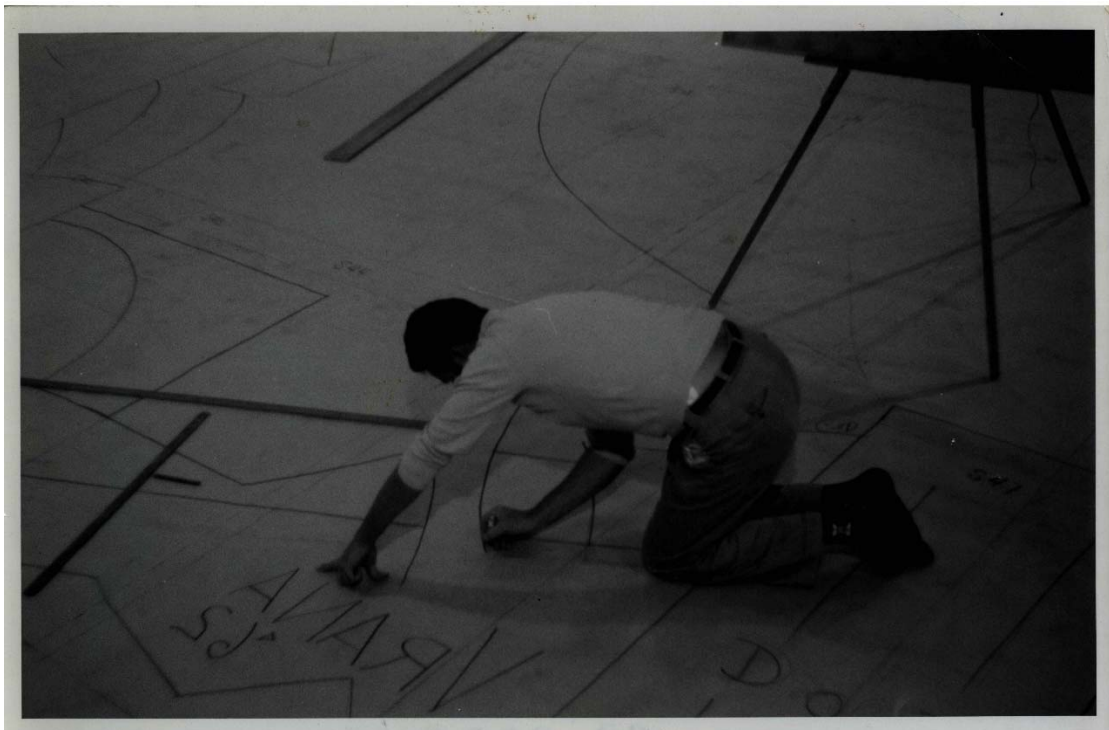
Rotunda building under construction indicating tie beams at panel connection locations:



Artist Albert Vrana detail of Rotunda study model:



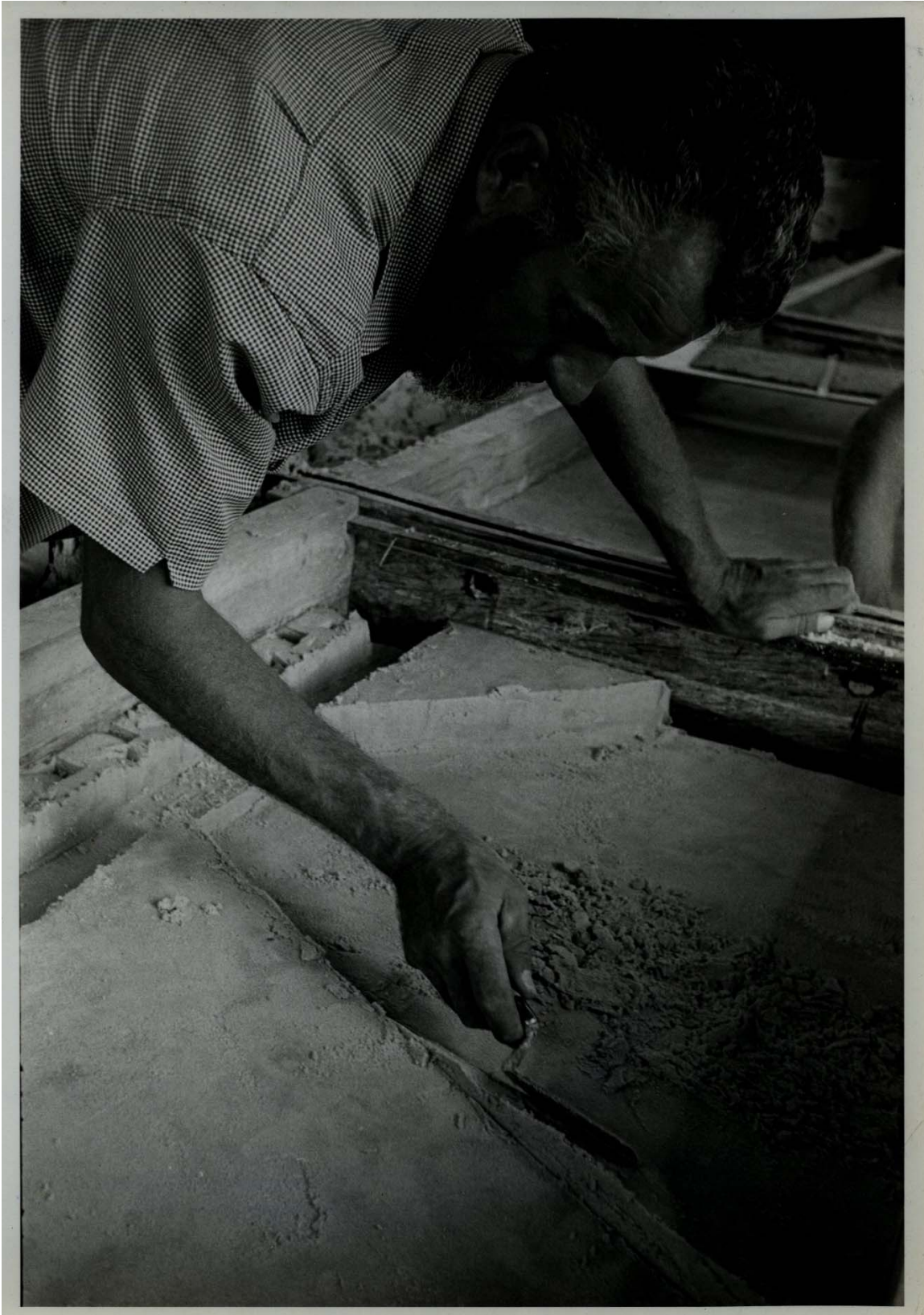
Artist Albert Vrana working on the Rotunda panels and signature:



Albert Vrana carving sand molds for the Rotunda:



Albert Vrana cutting impressions into the sand molds for the Rotunda:

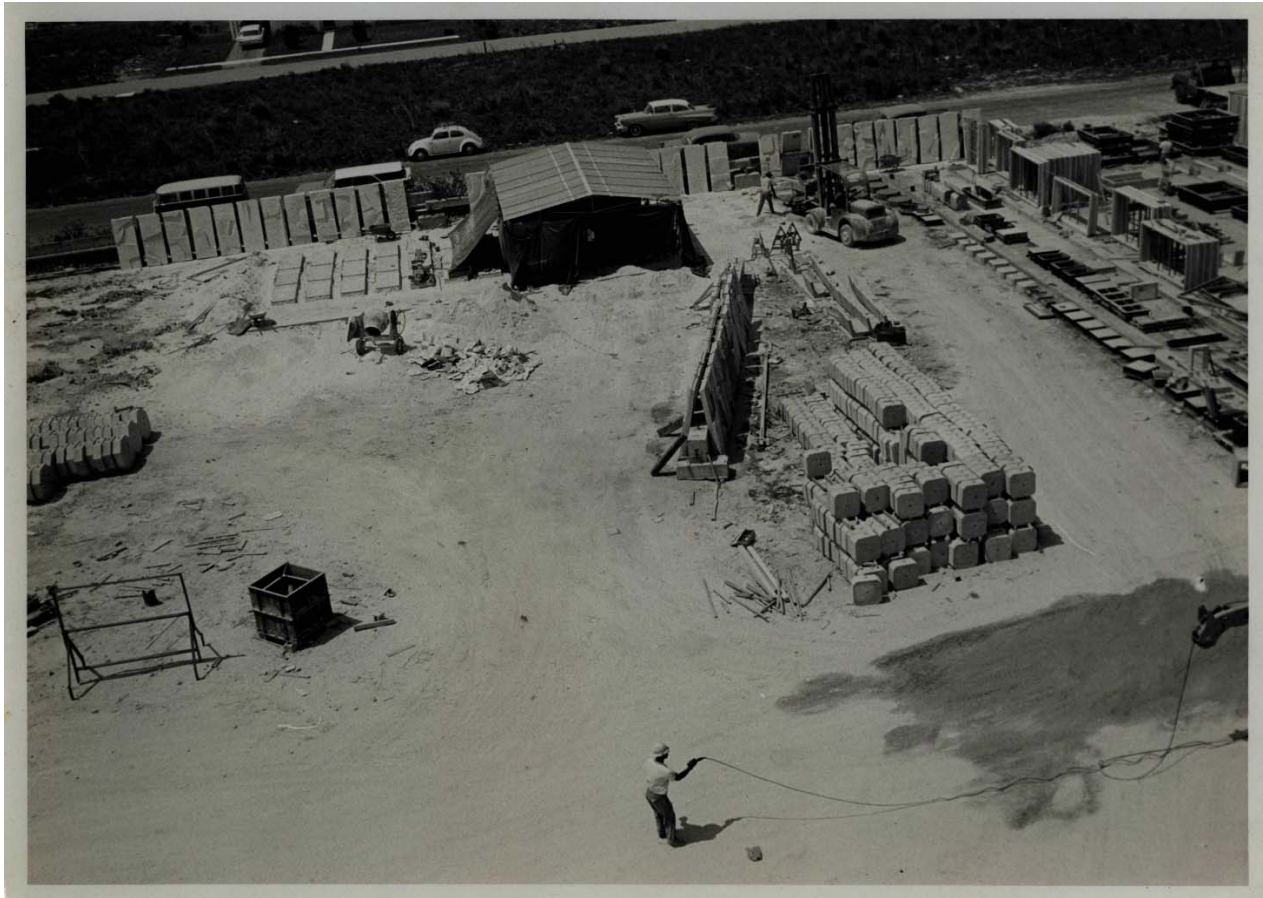


Workers placing mesh, hangers, and anchors for the Rotunda panels:



7. After watering, sculptor gives word for four inch back-up panel to be poured into form, with mesh, hangers and anchors in place. E4-9.

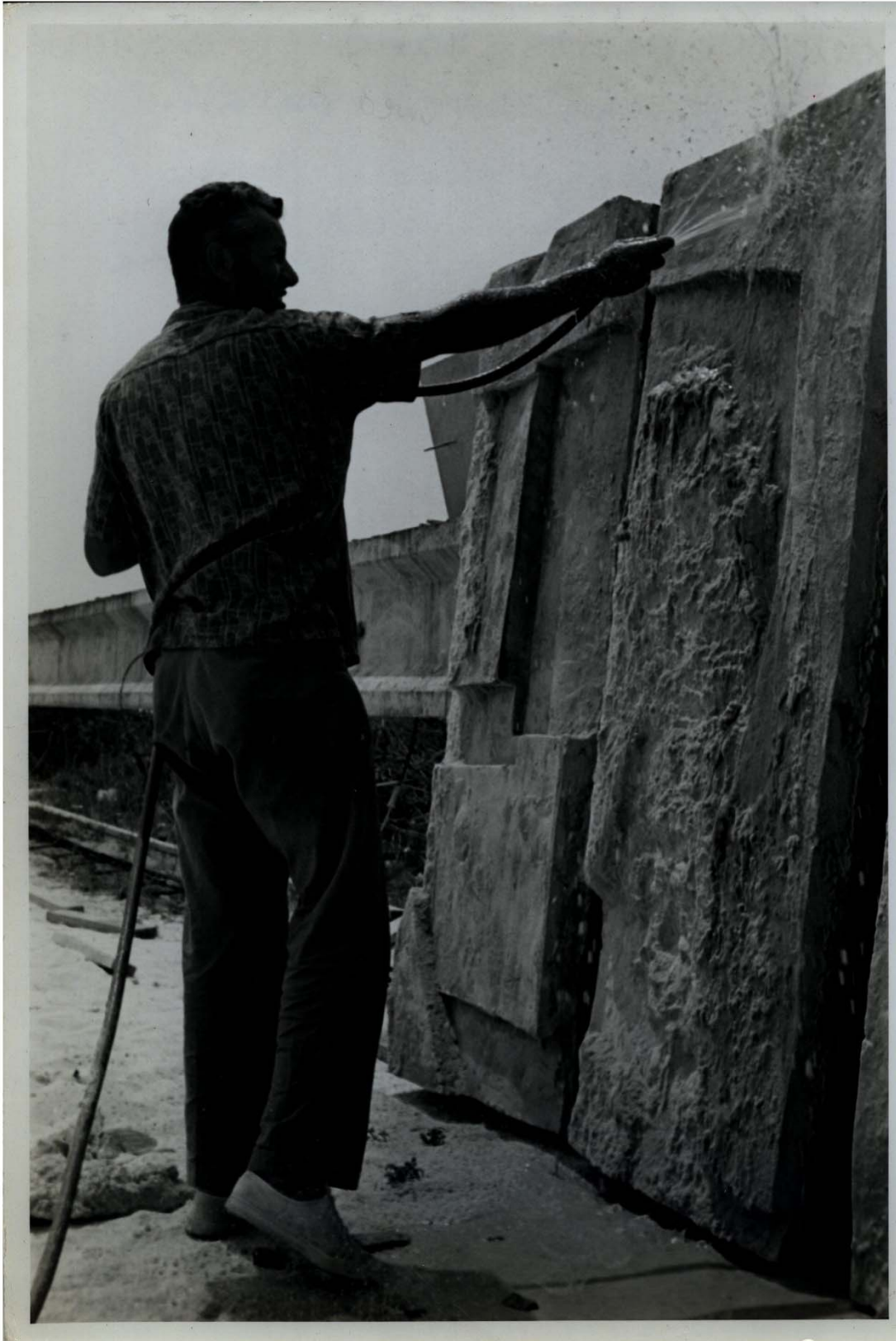
Aerial view of Rotunda panels construction site. Panels shown at center and top of image:



Detail:



Albert Vrana washes sand from the Rotunda panels:



Completed Rotunda – Day:



Completed Rotunda – Night (note fountain jets below cantilevered portion):





2004 - Library with Rotunda



2004 - Library with Rotunda



2004 - Rotunda view from north



2004 – Rotunda connection



2004 - Rotunda view from Library interior



2004 – Rotunda bridge detail



2004 – Rotunda Interior – East Elev.



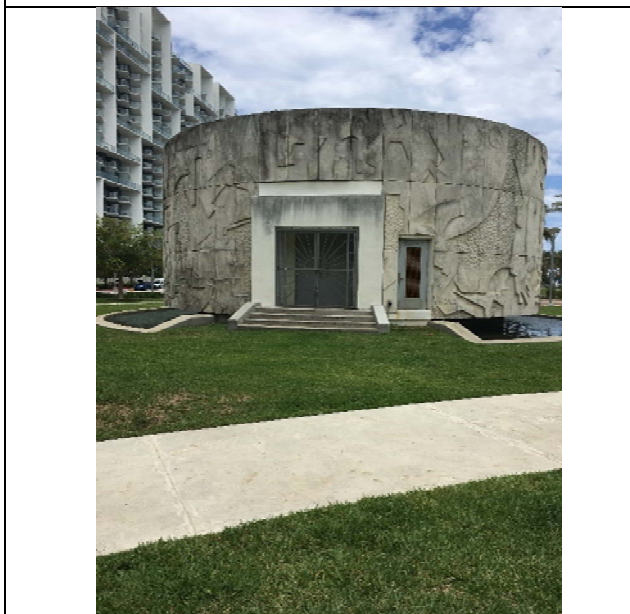
2004 – Rotunda Interior – West Elev.



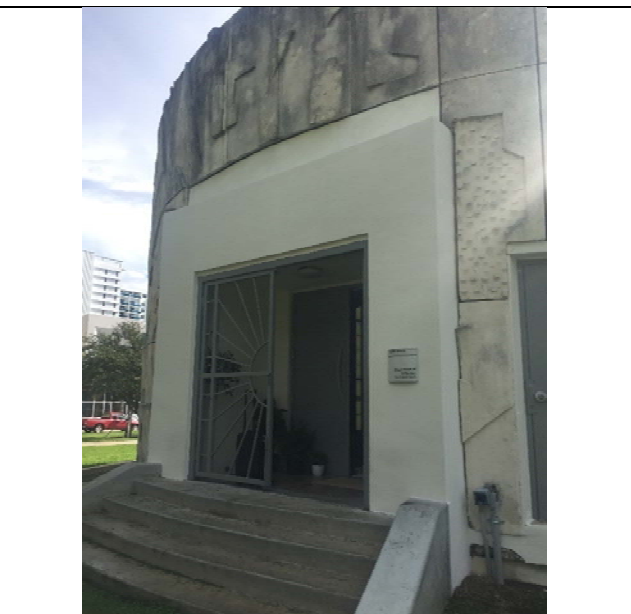
2004 – Rotunda Interior – Ceiling Detail



2004 – Rotunda Interior – Egress Corridor



2018 – West Elevation and historic path



2019 – Main entrance 'portal'



2022 – East Elevation



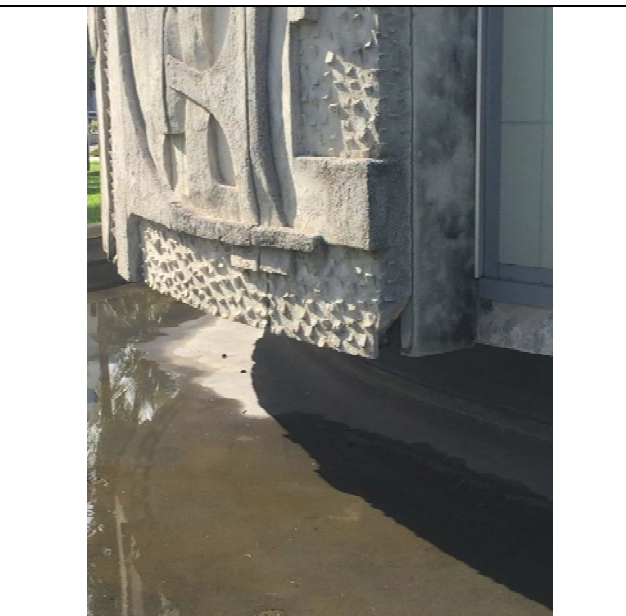
2022 – South Elevation



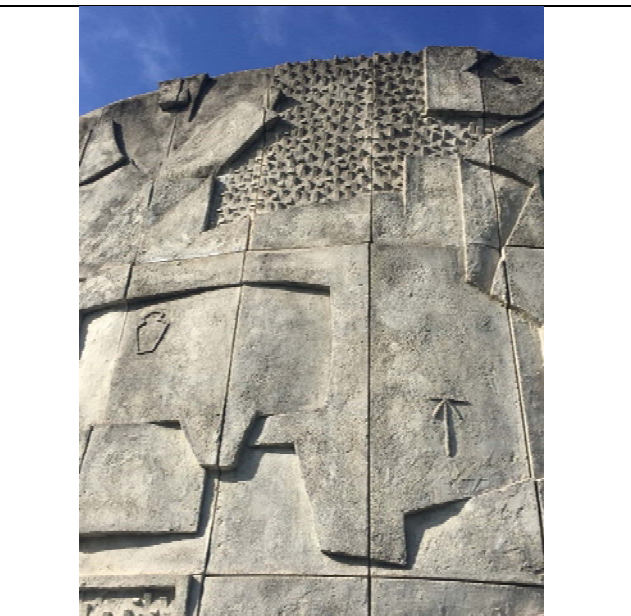
2022 – Northwest Elevation



2022 – North window bottom panel damaged



2022 – South window – bottom panel damaged



2022 – Panels Detail



2022 – View to west



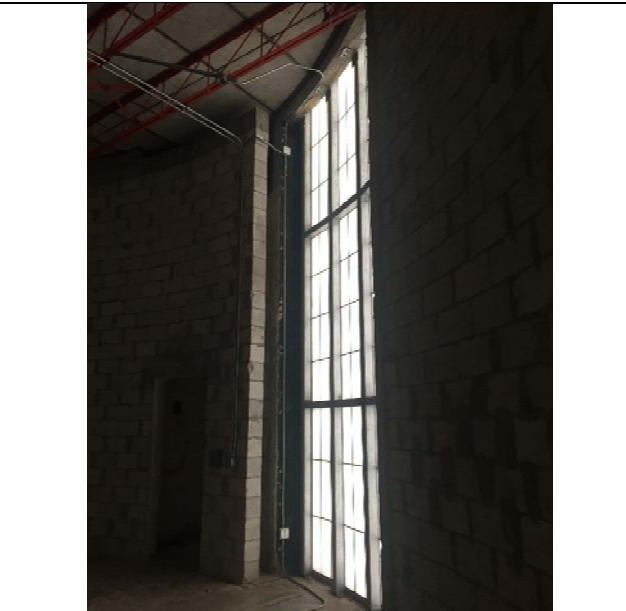
2022 – View to east



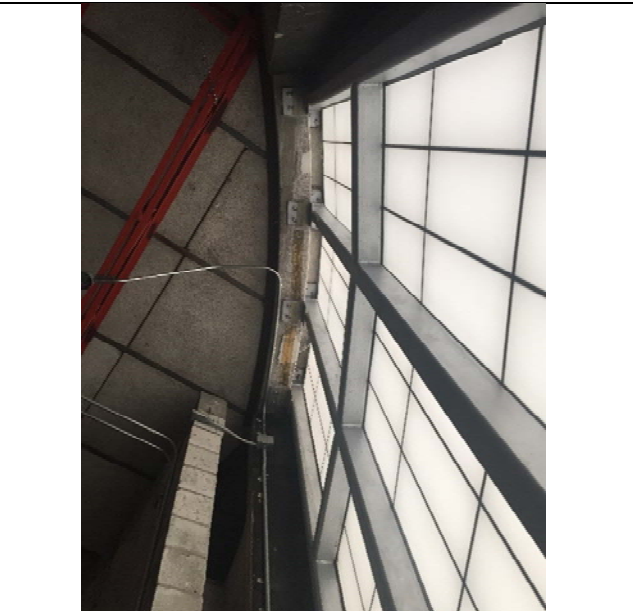
2022 – View to west



2022 – Mezzanine AHU Room



2022 – North window



2022 – North window head detail

2022 Photo of south window wall condition at underside of panels:



2006 photo of roof showing panels connection:



MIAMIBEACH

Collins Park Performing Arts Venue Rotunda

4

## Biographical Sketch and Resume

Albert Vrana

"Vrana is unceasing in his investigation of space-mass relations. He is interested in new materials ... he has even pioneered the use of new ones in the Southeast ... but for him their intrinsic qualities are never an end, but a means. Each of his small sculptures is a discovery of some aspect of the relation of space and mass and together they are preludes to his monumental sculpture ... his major achievement: the fusion of sculpture and architecture in a manner rarely accomplished since the Baroque era."

Kenneth Donahue, Director  
Los Angeles County Museum of Art

Vrana never considered being a sculptor until his mid thirties. He was born in New Jersey and spent his childhood on Long Island in a family of builders and architects.

His interest in travel and the sea found him at the outbreak of World War II already a radio operator, in the Merchant Marine. The six years involved in the conflict were not without exposure to various geographic cultures and peoples. Upon his return, he married, studied and became a horticulturist, landscape designer, starting his own successful nursery fifty miles from New York City. Ten years later, restless, he sold out and moved his family aboard a 30' sailboat and sailed to Florida to spend a year studying Tropical Horticulture at the University of Miami. To indulge himself, he tried to enroll in a painting class, only to find it was filled ... so he took sculpture as a second choice! 1957 and '58 saw him with his family traveling and visiting museums and galleries in Europe, through England, Ireland, Holland, France, Italy and carving three marble pieces in his studio in Spain.

Today he is known primarily for his monumental architectural sculpture. He says, "My approach is different, yet traditional, in that much of my work is integrated as part of the structure and related to the specific building in both design and materials, in harmony, not conflict, with the architecture." His successful New York show at the ACA Gallery, January 1966, exposed the artist and his direction. All twenty six bronze pieces were architecturally involved. Vrana says, "Man cannot be taken out of context for real understanding. This world shapes him as much as he molds it. My small gallery sculpture associates people to a definite environmental area. In my viewing my architectural sculpture, I find myself again associated ... the only change is scale."

MEDIA: He has achieved international recognition for his relief sculpture (intaglio) CONCRETE on the Professional Arts Center in Miami, Florida, perhaps the largest of its kind. The non-repetitive design titled "The Procession", 6 stories high, flows over 200 panels 12' x 12', four exterior walls cast in hand tooled expendable plastic foam molds. The concrete panels became the actual structural exterior walls closing in the building. (See Public Commissions and Books Contributed To)

Vrana's sculpture on Tamiami Pool and Tennis Center, Dade County, Florida offered him an opportunity to cast his designs in the structural walls poured by the general contractor. Heretofore, his sculptured panels had been precast in a fabricating plant off the building site, then trucked to the site and installed. This cast in place method can result in considerable savings. The retaining wall for the Johnson City Public Library, (Tenn.) also uses this system.

When faced with a major architectural commission to design and execute a relief on the exterior of a Circular auditorium, he developed the post-hydro technique for sand casting concrete panels. Working from his scale model of the 157 foot, two story high rotunda, he carved in sand and cast the panels at a concrete plant, supervised their hanging at the Miami Beach Public Library. This sculpture-in-the-round is titled "The Story of Man". (See Awards & Public Commissions)

MEDIA: A Crown of Thorns, 19 feet in diameter, executed in iron and suspended  
DIRECT METALS over the sanctuary, an altar reminiscent of Stonehenge, designed in native stone and wrought iron and the entrance doors worked in embossed copper contributed to the design of architect Alfred Browning Parker for Hope Lutheran Church in South Miami, Florida (See Awards)

For Florida International University's sculpture, "Las Cuatro Razas", it was only natural that Vrana should be inspired by his years of travel in Europe, the Caribbean, and Latin America. This part of the commission for the Primera Casa is a multiple sculpture with components of ferro cement and hammered, brazed sheet bronze, held off the wall in an area 30' x 103' and elevated between two stair towers. (See Awards)

MEDIA: Intrigued by the development of ferro cement in the boating industry,  
FERRO CEMENT using these techniques and procedures for the thin shelled reinforced  
AND METALS concrete, Vrana developed a method of fabricating large monumental sculptures that were light and very durable.

Early in 1969, he was commissioned to design and execute his largest free-standing sculpture. "The Obelisk" commemorating all the Arts, performing, visual, etc. stands 60' high and weighs 50 tons. It consists of a central tapered tower form of white cast concrete, around which eight heroic sculptures of ferro cement are cantilevered. These ferro cement sculptures are sheathed in most part with brass and bronze, contrasting with the precast tower.

In Raleigh, North Carolina, The Fountain for Crab Tree Mall utilized ferro cement onto which was applied stainless steel and bronze by an industrial method known as Metallizing. This method, also known as flame spraying, melts the desired metals in wire form and flame sprays them with the use of high volume compressed air onto the designated areas.

#### PUBLIC COMMISSIONS

	<u>Concrete</u>		
Miami Beach Public Library	Sand Cast Concrete	Miami Beach, FL	"Story of Man"
Edgewater Beach Apartments	Precast Concrete	Naples, FL	-
Professional Arts Center	"	Miami, FL	"The Processions"
Jacksonville Federal Bldg.	"	Jacksonville, FL	"Evolution of Gov't"
Florida Int'l University	"	Miami, FL	-
Miami Lakes First State Bank	"	Miami, FL	"The Marketplace"
and Capeletti Bldg.	"	Homestead, FL	"The Homesteaders"
Homestead City Hall	"	Hialeah, FL	-
North Hialeah 1st State Bank	"	Johnson City, TN	-
Johnson City Public Library	"	West Miami, FL	-
Tamiami Pool & Tennis Center	Cast in Place Concrete	Johnson City, TN	-
Johnson City Public Library	"		
(retaining wall)			

#### PUBLIC COMMISSIONS

	<u>Metals</u>		
Edgewater Beach Apartments	Sheet Bronze	Naples, FL	Fountain
Hope Lutheran Church	Iron, Copper & Limestone	S. Miami, FL	"Crown of Thorns"
1100 Building	Sheet Bronze	North Miami, FL	"The Guardian"
Holy Trinity Church	Bronze, Lucite	Washington, DC	"Glorious Cross"
Florida Int'l University	Bronze, FerroCement	Miami, FL	"Las Cuatro Razas"

#### PUBLIC COMMISSIONS

	<u>Ferro Cement &amp; Metals</u>		
Arlen House	W/Bronze	Miami Beach, FL	"The Obelisk"
Plaza Center	W/Bronze	Palm Beach, FL	Fountain
Presbyterian Towers	W/Bronze	St. Petersburg, FL	"Conscience of Man"
Crabtree Mall	W/Bronze & S. Steel	Raleigh, NC	Fountain

MEDIA: Vrana's first training was in carving. His earliest exhibitions  
CARVED STONE were dominated by large wood, stone, some hammered lead pieces and  
AND WOOD fiberglass. (See page 1, Spain) He still thinks as a carver, his foam molds for concrete panels are also carved.

COLLECTIONS: MAJOR STONE AND WOOD SCULPTURE

Commissioned	Carved Limestone	45 E. 57th St. Bldg.	New York City
"Peace and Reconstruction"	Carved Limestone	Blanche Morris	Miami Beach, FL
Commissioned	Wood	Morris Burk	Coral Gables, FL
"Family"	Wood	Edward Truppman, MD	North Miami, FL
"Saved"	Wood	Janet Rainwater	San Francisco, CA

MEDIA: A 1963 Tiffany Grant in the field of sculpture for his work in centrifugal  
BRONZE CASTING casting of small freestanding gallery bronzes encouraged Vrana to develop  
 his studio foundry using the ceramic shell casting system.

In his one man traveling show, "Doorways and Windows", 1964, sponsored by the Lowe Art Gallery, University of Miami, he presented a series of eleven bronze figures related to doorways and windows. This theme show of man's relationship to his environment and the many symbolic interpretations of the door and window, was accompanied by shadow prints, his unique process of "Shadow Capturing". This show traveled for one year to ten universities and municipal museums and galleries in the United States. He has maintained a bronze foundry in his studio since 1963 and his exhibitions, shows, and workshops after this date were dominated by his bronze casting.

EXHIBITIONS (one-man shows)

Joe and Emily Lowe Gallery, University of Miami - 1960, 1963  
 Ft. Lauderdale Art Center, Ft. Lauderdale - 1959  
 Fairleigh Dickinson University Art Gallery, Madison, NJ - 1964  
 Columbia Museum of Art, Columbia, SC - 1964  
 Weatherspoon Art Gallery, University of North Carolina, Greensboro, NC - 1964  
 University of Oklahoma Art Gallery, Norman, Oklahoma - 1964  
 Columbus Museum of Arts and Crafts, Columbus, Georgia - 1964  
 Hunter Gallery of Art, Chattanooga Art Association, Chattanooga, TN - 1964  
 Mt. Vernon Seminary and Jr. College, Washington, DC - 1964  
 Ft. Lauderdale Museum of Art, Ft. Lauderdale - 1965  
 ACA Galleries, New York City - 1966  
 The Berenson Gallery, Miami, Florida - 1968, 1969, 1972  
 Long Boat Key Art Center, Florida - 1973  
 Harmon Gallery, Naples, Florida - 1974

He is represented by the Harmon Gallery in Naples and Sarasota, Florida and by the I.F.A. Galleries in Washington, DC

FILM Title, "Artist in Concrete" - color - Subject: documentary on process for relief,  
 Jacksonville Federal Office Building - Produced by Portland Cement Association

FIFTH NATIONAL SCULPTURE CONFERENCE, University of Kansas - May 1968 - Film and slides on  
 subject of Monumental Sculpture Techniques.

1977 NATIONAL SCULPTURE CONFERENCE, Arkansas State University, titled "The Sculptor and  
 the Architect" - spoke on "Concrete Techniques" with slides and film.

CONSULTANT TO Dade County (Florida) "Art in Public Places" Ordinance #73-77.

TEACHING Primarily a working sculptor, yet Vrana enjoys occasional forays into the  
 teaching field, such as at the Art Institute of Miami, Miami-Dade Community  
 College and summers, '68 through '80 at Penland School, North Carolina.

BOOKS CONTRIBUTED TO:

"Creating with Plaster", "Contemporary Stone Sculpture", "Creative Carving" and  
 "Contemporary Art with Wood", all by Dona Meilach.  
 "Plastics as an Art Form", "Plastics as a Design Form" and "Plastics as Sculpture",  
 all by Thelma Newman.  
 "A Decade of Sculpture", by Julia Busch.  
 "Sculpture, Tools, Materials and Techniques" by Wilbert Verhelst  
 "Spiel mit Form and Struktur" by Hans F. Erb (West Germany)  
 "The Family Creative Workshop #15" Penary Publishing Co. and Time-Life Books  
 "Direct Metal Sculpture" by Meilach and Seiden  
 "Sculpture from Plastics" by Nicholas Roukes  
 "Batir" (Architectural Magazine) Cover story on Professional Arts Bldg., Paris, France

HONORS AND AWARDS FOR:

Miami Beach Public Library	City Council	Resolution - 1962
Miami Lakes First State Bank	Portland Cement Association	Award - 1972
Hope Lutheran Church	26th Nat'l Conf. of Church Arch.	Award - 1964
Florida Int'l University	Florida Concrete Products Ass.	Award of Excellence - 1973
Professional Arts Center	City of Miami	Beautification Award - 1966
Who's Who in American Art	Listings	Since 1966

STUDIO ADDRESS: Route 3, Box 330 C, Bakersville, NC 28705

PHONE: (704) 688-3514

MIAMI BEACH

Collins Park Performing Arts Venue Rotunda

5

**Microfilm Records**

**1962 Miami Beach Public Library**

**MCHARRY ASSOCIATES**



LIBRARY  
UNIVERSITY OF MICHIGAN  
ANN ARBOR, MICH.  
DATE  
BY



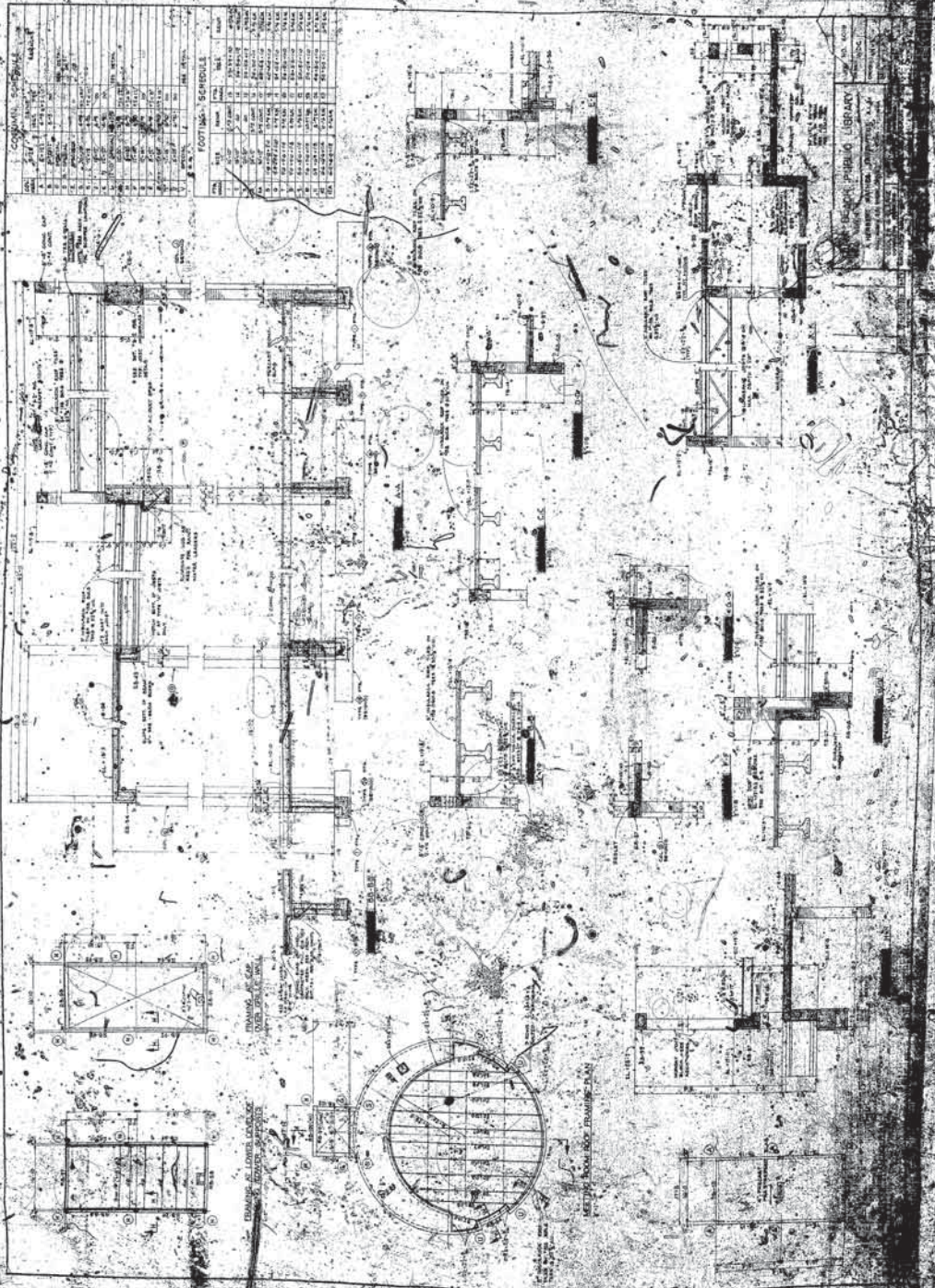
MIAMI BEACH PUBLIC LIBRARY	
ARCHITECT	JOHN H. BROWN
ENGINEER	JOHN H. BROWN
DATE	1925
SHEET NO. 10	
TOTAL SHEETS 10	











CONCRETE SCHEDULE

NO.	DESCRIPTION	QTY.	UNIT
1	CONCRETE FLOOR	100	SQ. YD.
2	CONCRETE WALL	200	SQ. YD.
3	CONCRETE ROOF	50	SQ. YD.
4	CONCRETE FOUNDATION	150	SQ. YD.
5	CONCRETE CURB	10	SQ. YD.
6	CONCRETE SILL	5	SQ. YD.
7	CONCRETE CHASE	2	SQ. YD.
8	CONCRETE DRAIN	1	SQ. YD.
9	CONCRETE GUTTER	1	SQ. YD.
10	CONCRETE DOWNSPOUT	1	SQ. YD.
11	CONCRETE WALKWAY	10	SQ. YD.
12	CONCRETE DRIVEWAY	20	SQ. YD.
13	CONCRETE PAVEMENT	50	SQ. YD.
14	CONCRETE CURB	10	SQ. YD.
15	CONCRETE SILL	5	SQ. YD.
16	CONCRETE CHASE	2	SQ. YD.
17	CONCRETE DRAIN	1	SQ. YD.
18	CONCRETE GUTTER	1	SQ. YD.
19	CONCRETE DOWNSPOUT	1	SQ. YD.
20	CONCRETE WALKWAY	10	SQ. YD.
21	CONCRETE DRIVEWAY	20	SQ. YD.
22	CONCRETE PAVEMENT	50	SQ. YD.
23	CONCRETE CURB	10	SQ. YD.
24	CONCRETE SILL	5	SQ. YD.
25	CONCRETE CHASE	2	SQ. YD.
26	CONCRETE DRAIN	1	SQ. YD.
27	CONCRETE GUTTER	1	SQ. YD.
28	CONCRETE DOWNSPOUT	1	SQ. YD.
29	CONCRETE WALKWAY	10	SQ. YD.
30	CONCRETE DRIVEWAY	20	SQ. YD.
31	CONCRETE PAVEMENT	50	SQ. YD.
32	CONCRETE CURB	10	SQ. YD.
33	CONCRETE SILL	5	SQ. YD.
34	CONCRETE CHASE	2	SQ. YD.
35	CONCRETE DRAIN	1	SQ. YD.
36	CONCRETE GUTTER	1	SQ. YD.
37	CONCRETE DOWNSPOUT	1	SQ. YD.
38	CONCRETE WALKWAY	10	SQ. YD.
39	CONCRETE DRIVEWAY	20	SQ. YD.
40	CONCRETE PAVEMENT	50	SQ. YD.
41	CONCRETE CURB	10	SQ. YD.
42	CONCRETE SILL	5	SQ. YD.
43	CONCRETE CHASE	2	SQ. YD.
44	CONCRETE DRAIN	1	SQ. YD.
45	CONCRETE GUTTER	1	SQ. YD.
46	CONCRETE DOWNSPOUT	1	SQ. YD.
47	CONCRETE WALKWAY	10	SQ. YD.
48	CONCRETE DRIVEWAY	20	SQ. YD.
49	CONCRETE PAVEMENT	50	SQ. YD.
50	CONCRETE CURB	10	SQ. YD.

WOODWORK SCHEDULE

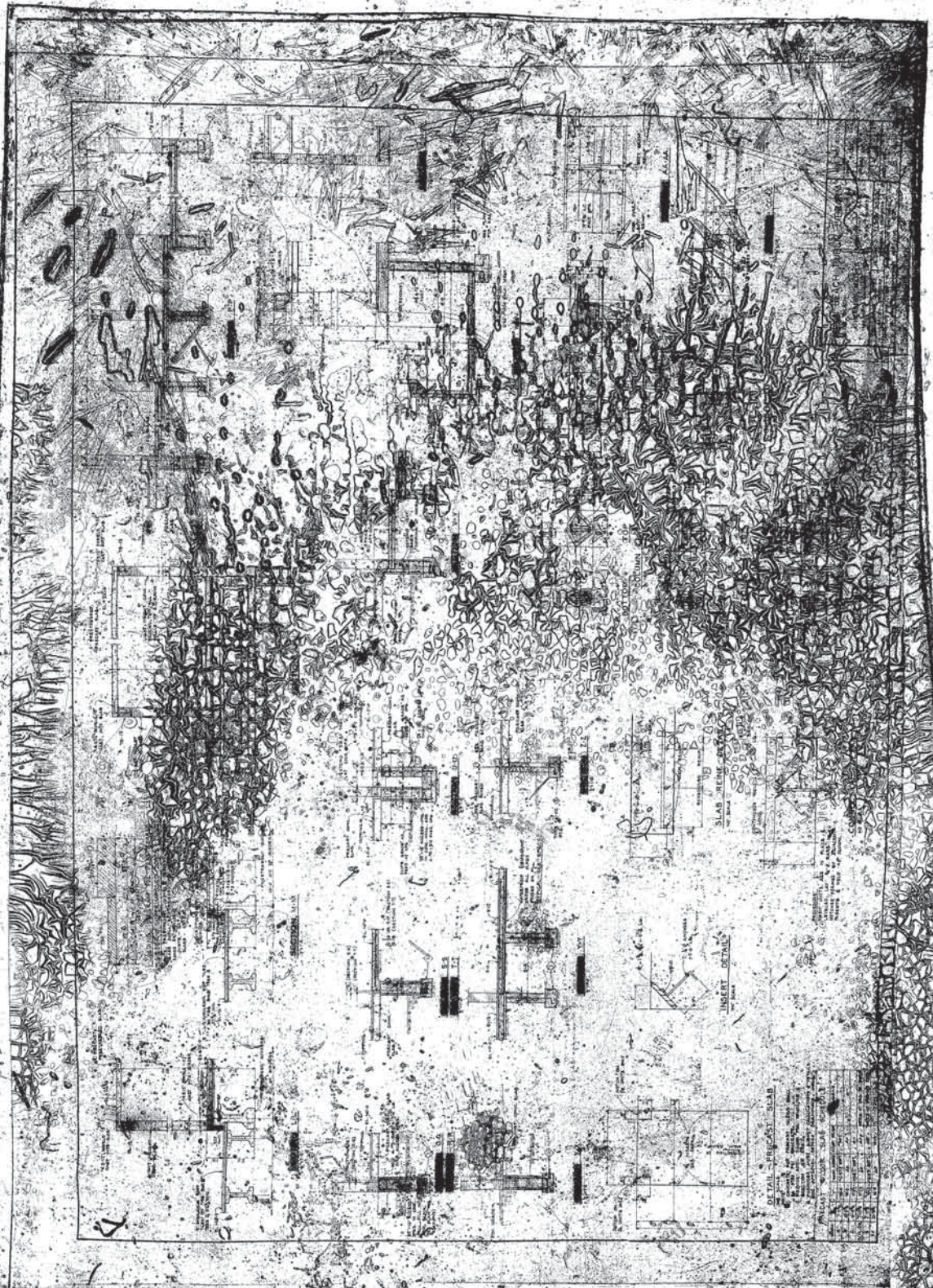
NO.	DESCRIPTION	QTY.	UNIT
1	WOOD FLOOR	100	SQ. YD.
2	WOOD WALL	200	SQ. YD.
3	WOOD ROOF	50	SQ. YD.
4	WOOD FOUNDATION	150	SQ. YD.
5	WOOD CURB	10	SQ. YD.
6	WOOD SILL	5	SQ. YD.
7	WOOD CHASE	2	SQ. YD.
8	WOOD DRAIN	1	SQ. YD.
9	WOOD GUTTER	1	SQ. YD.
10	WOOD DOWNSPOUT	1	SQ. YD.
11	WOOD WALKWAY	10	SQ. YD.
12	WOOD DRIVEWAY	20	SQ. YD.
13	WOOD PAVEMENT	50	SQ. YD.
14	WOOD CURB	10	SQ. YD.
15	WOOD SILL	5	SQ. YD.
16	WOOD CHASE	2	SQ. YD.
17	WOOD DRAIN	1	SQ. YD.
18	WOOD GUTTER	1	SQ. YD.
19	WOOD DOWNSPOUT	1	SQ. YD.
20	WOOD WALKWAY	10	SQ. YD.
21	WOOD DRIVEWAY	20	SQ. YD.
22	WOOD PAVEMENT	50	SQ. YD.
23	WOOD CURB	10	SQ. YD.
24	WOOD SILL	5	SQ. YD.
25	WOOD CHASE	2	SQ. YD.
26	WOOD DRAIN	1	SQ. YD.
27	WOOD GUTTER	1	SQ. YD.
28	WOOD DOWNSPOUT	1	SQ. YD.
29	WOOD WALKWAY	10	SQ. YD.
30	WOOD DRIVEWAY	20	SQ. YD.
31	WOOD PAVEMENT	50	SQ. YD.
32	WOOD CURB	10	SQ. YD.
33	WOOD SILL	5	SQ. YD.
34	WOOD CHASE	2	SQ. YD.
35	WOOD DRAIN	1	SQ. YD.
36	WOOD GUTTER	1	SQ. YD.
37	WOOD DOWNSPOUT	1	SQ. YD.
38	WOOD WALKWAY	10	SQ. YD.
39	WOOD DRIVEWAY	20	SQ. YD.
40	WOOD PAVEMENT	50	SQ. YD.
41	WOOD CURB	10	SQ. YD.
42	WOOD SILL	5	SQ. YD.
43	WOOD CHASE	2	SQ. YD.
44	WOOD DRAIN	1	SQ. YD.
45	WOOD GUTTER	1	SQ. YD.
46	WOOD DOWNSPOUT	1	SQ. YD.
47	WOOD WALKWAY	10	SQ. YD.
48	WOOD DRIVEWAY	20	SQ. YD.
49	WOOD PAVEMENT	50	SQ. YD.
50	WOOD CURB	10	SQ. YD.

FRAMING OF ROOF  
AND FLOOR JOISTS

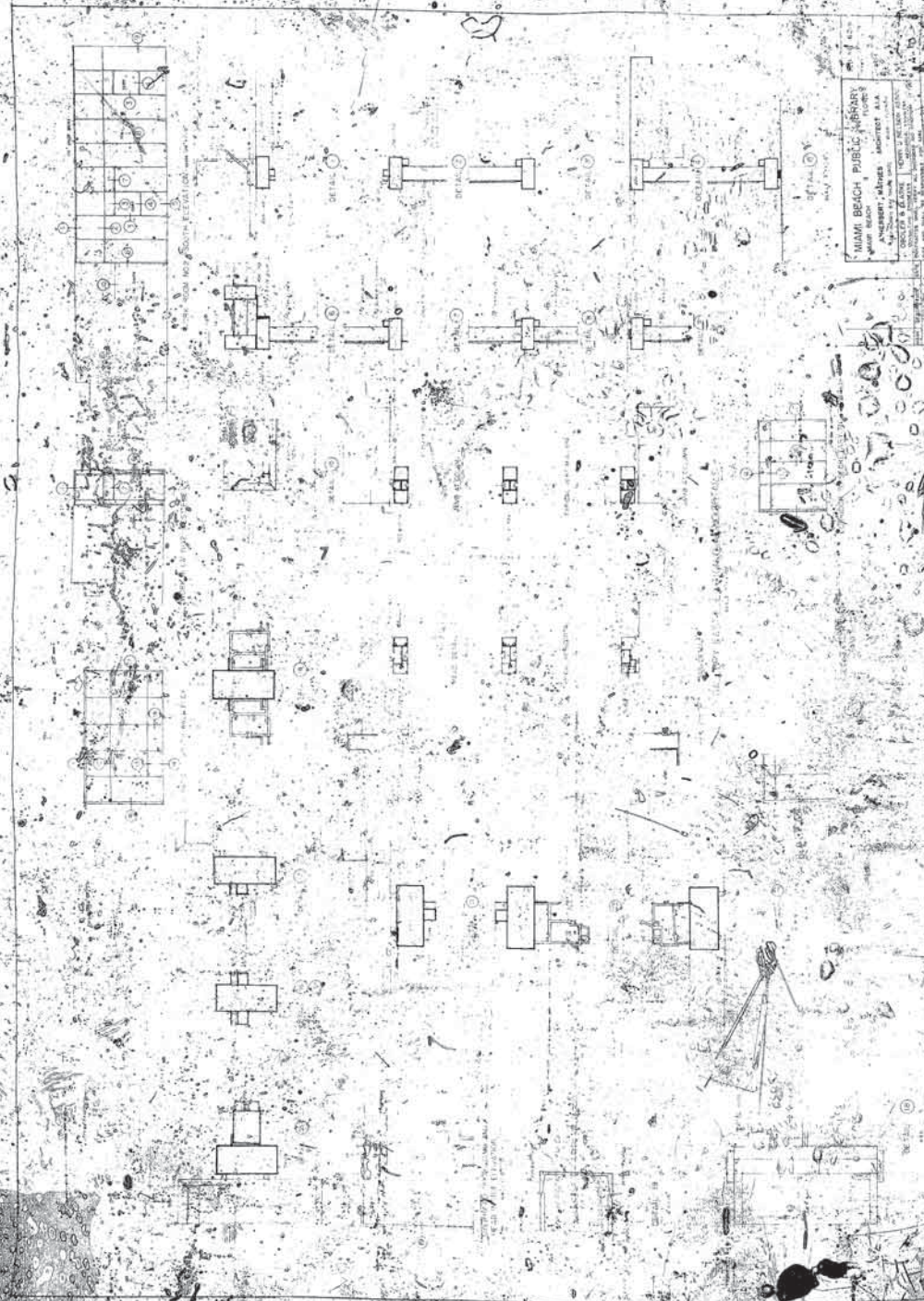


SECTION OF ROOF AND FLOOR JOISTS

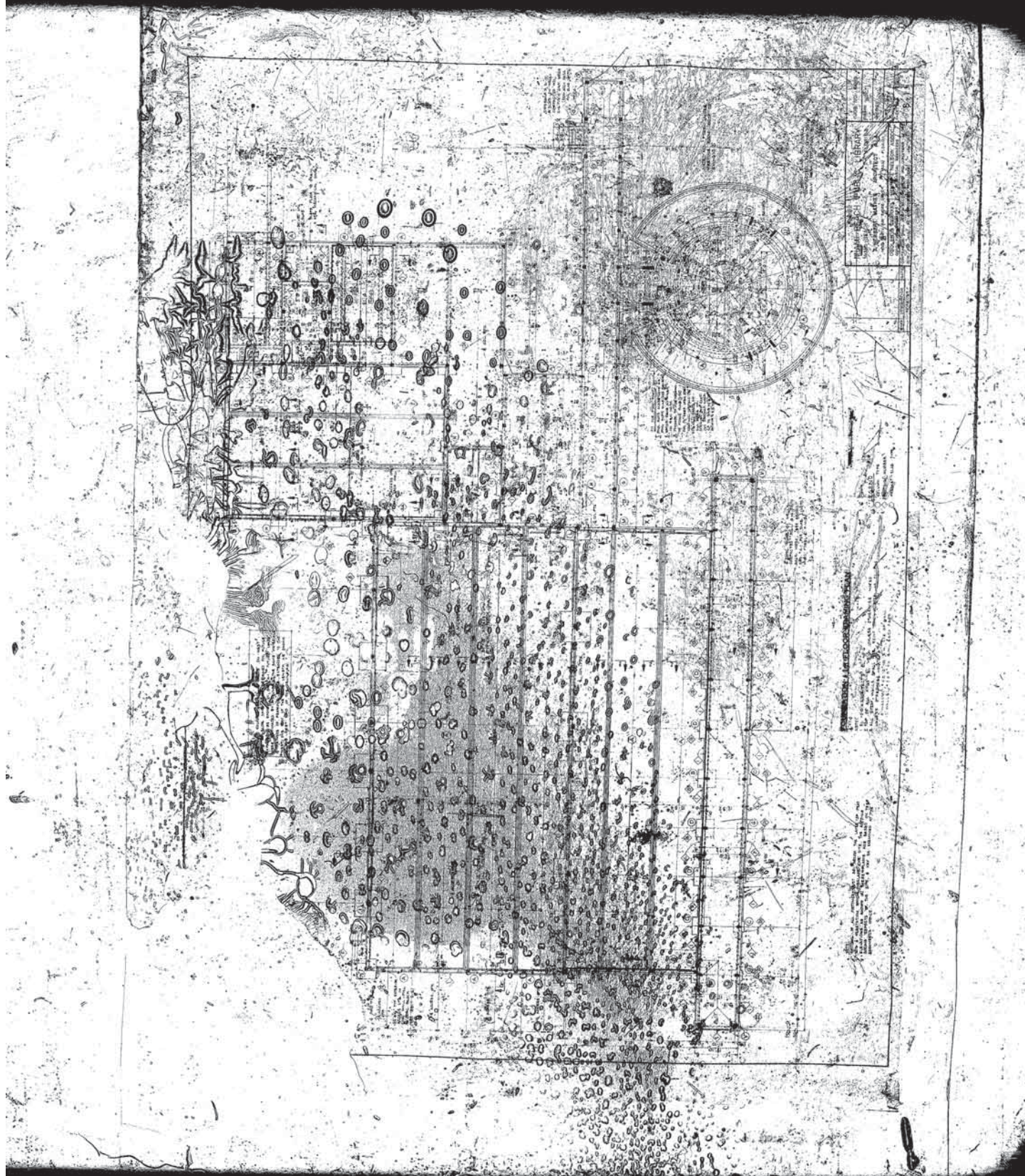
















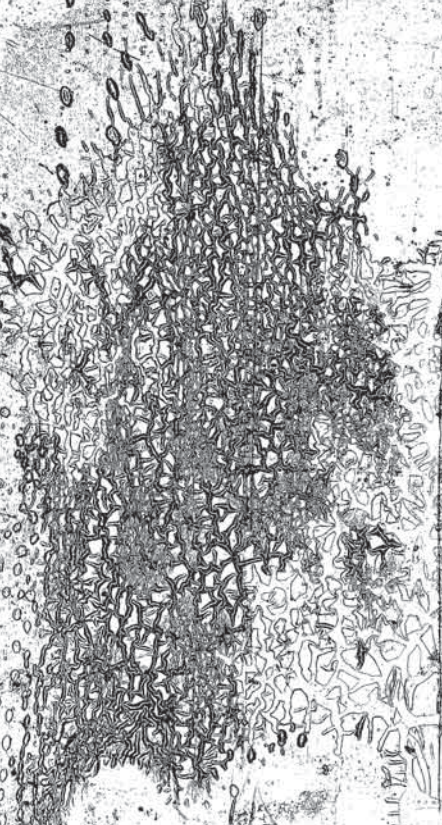
TYPICAL CHILLED WATER AIR-  
HANDLING UNIT PIPE CONNECTIONS

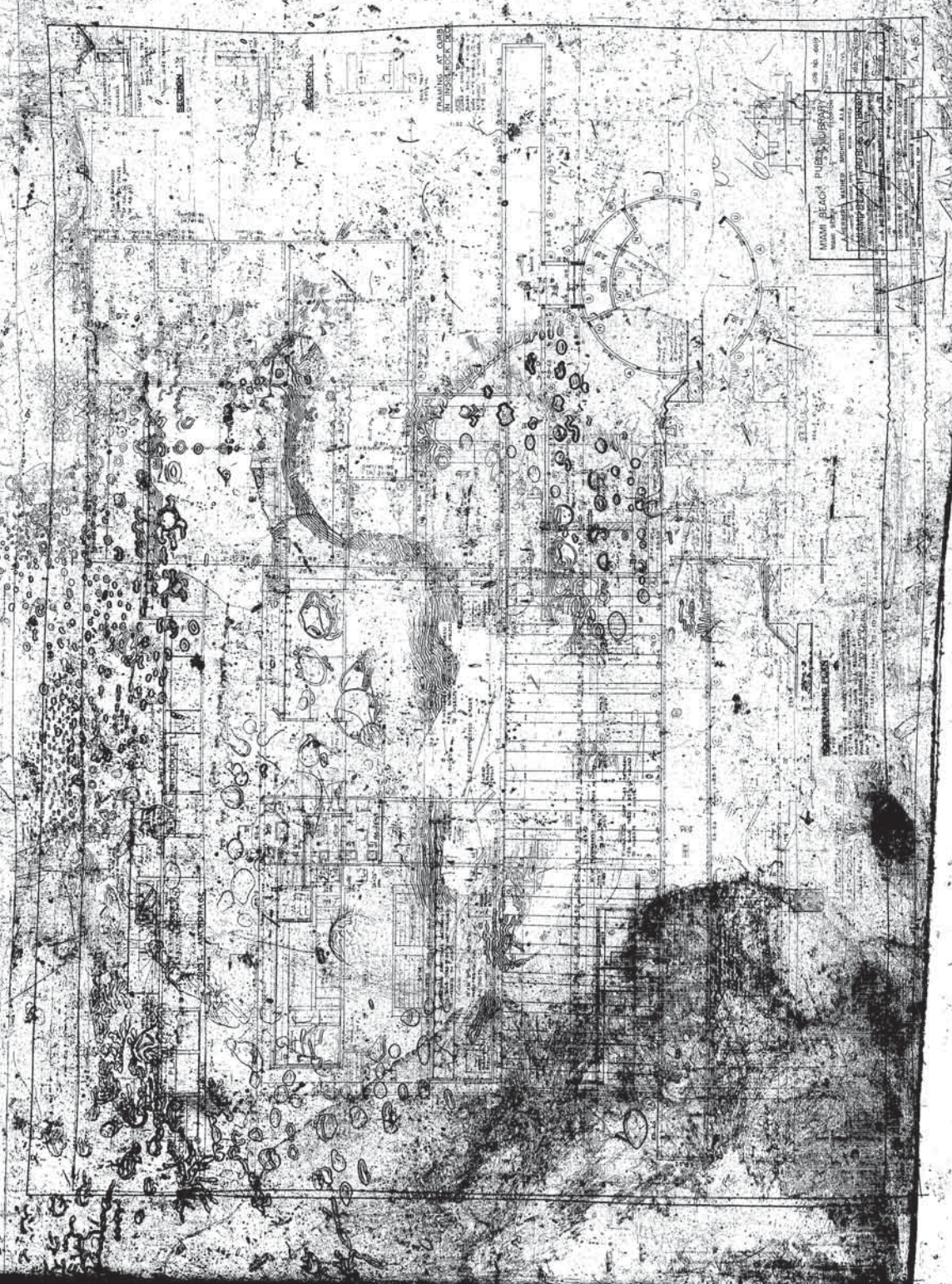


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

MIAMI BEACH PUBLIC LIBRARY

LEWIS & CLARK  
EX-100





NAME	ADDRESS	CITY	STATE	ZIP
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...

UNIVERSITY OF CALIFORNIA  
LIBRARY  
DURHAM



