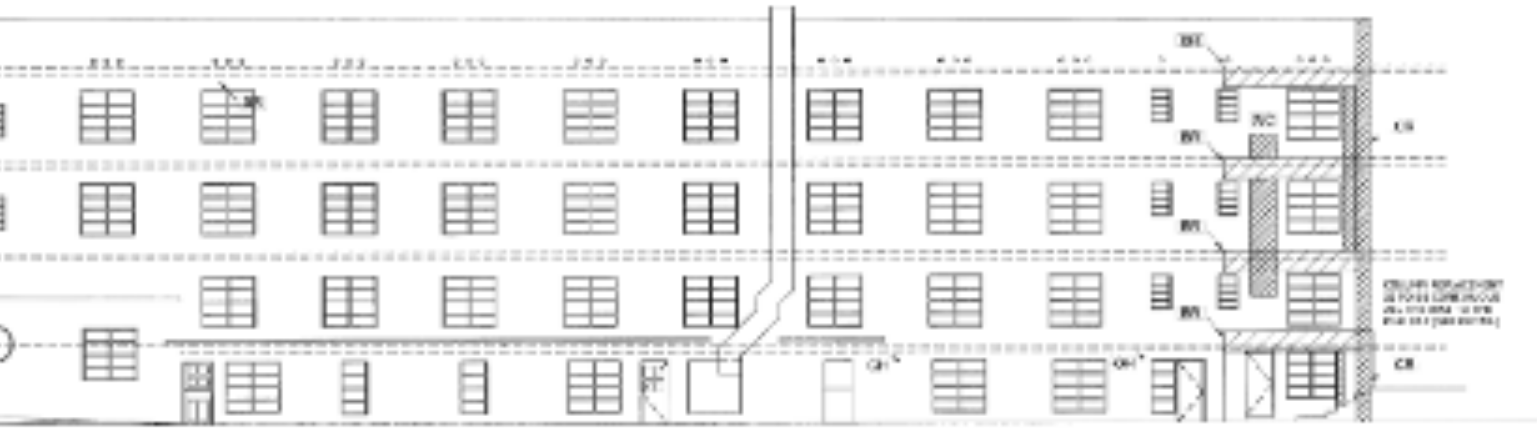


SOUTH ELEVATION

NORTH ELEVATION

EAST ELEVATION

WEST ELEVATION

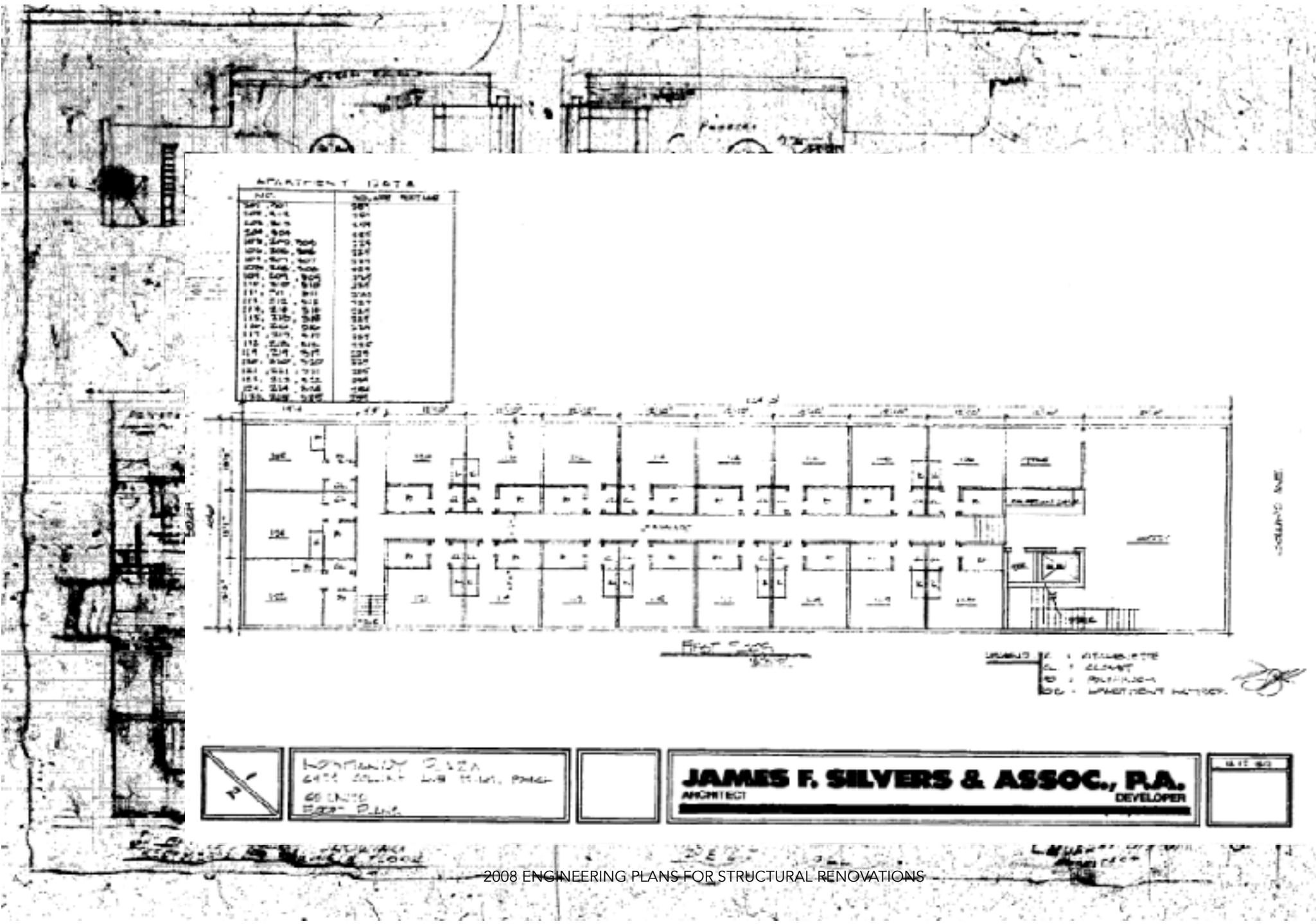
CRITTERIUM
INSPECTION ENGINEERS

ARSHAD WQAR, P.E.

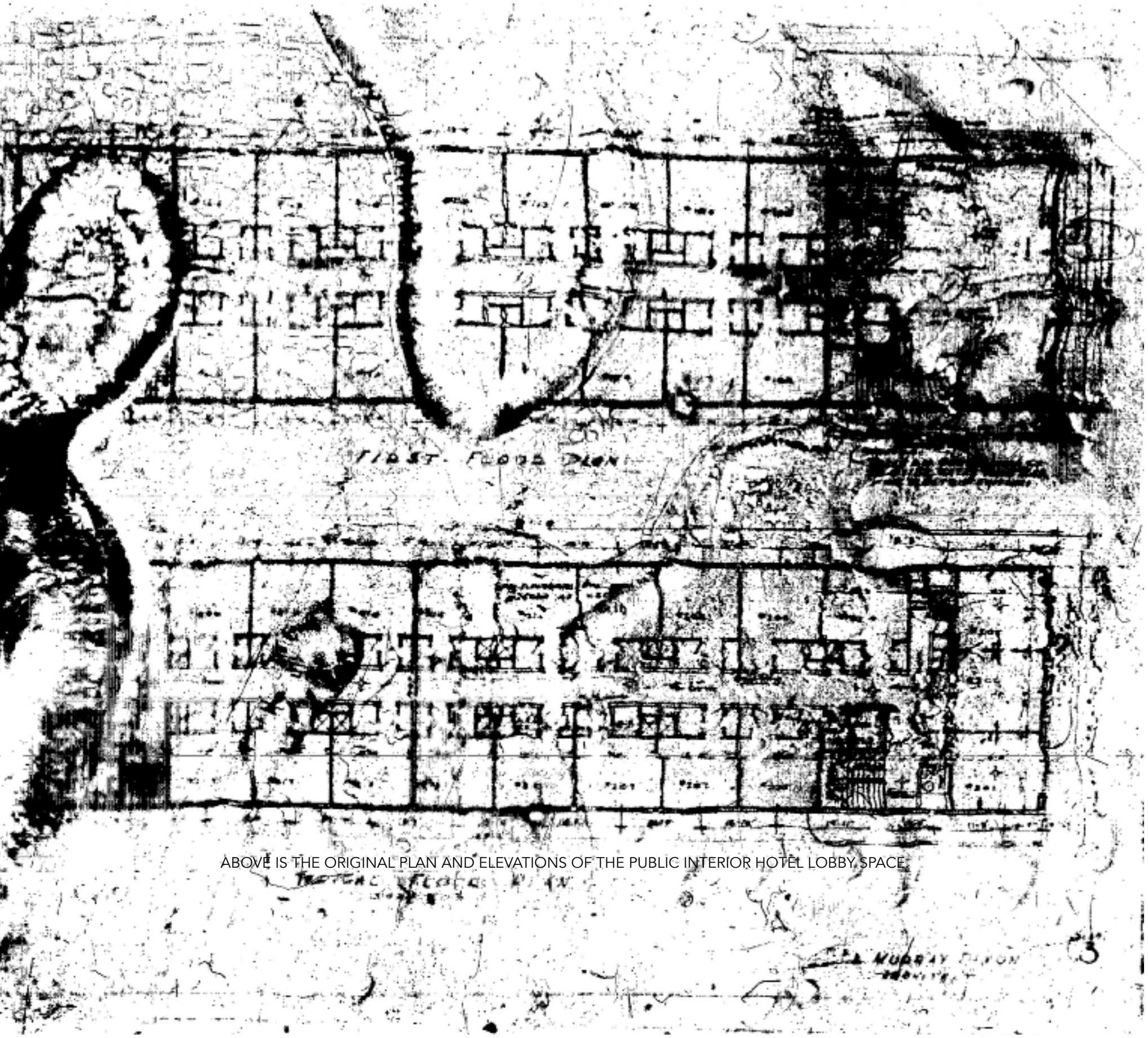
SEAL

OVERALL STRUCTURAL REPAIRS
BORA BORA HOTEL
6076 COLLINS AVENUE
MIAMI BEACH, FL

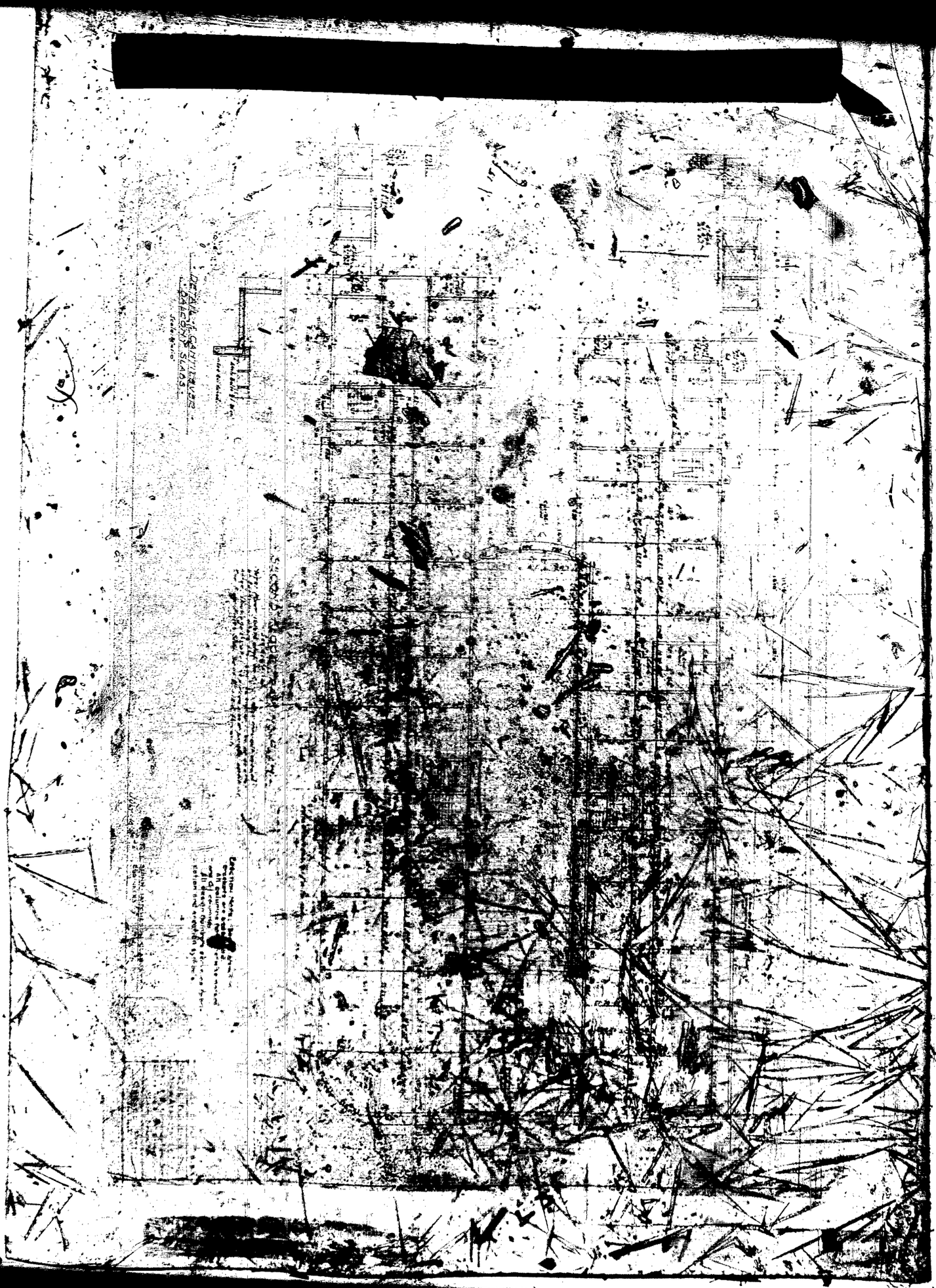
S-2

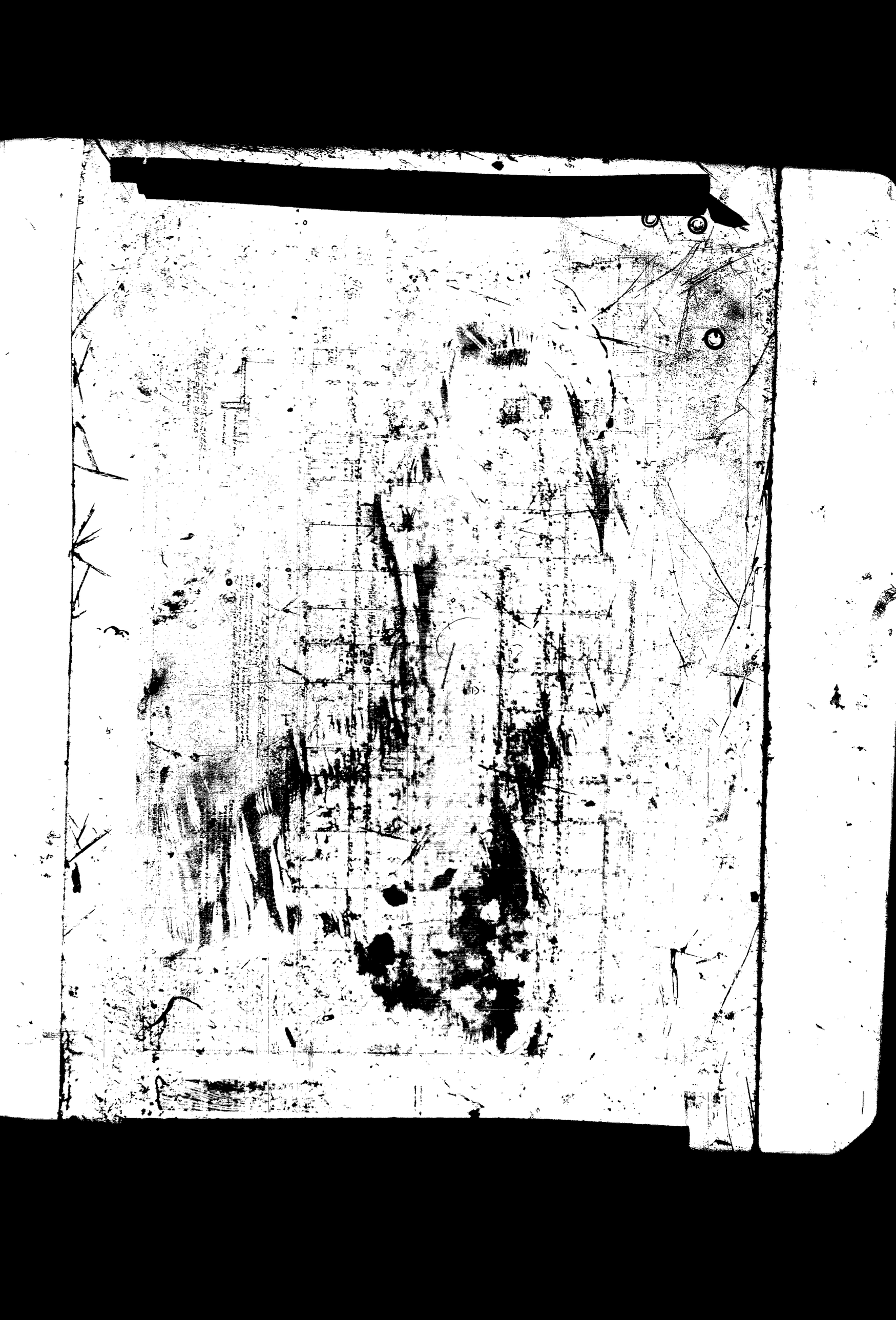

APARTMENT DATA
JAMES F. SILVERS & ASSOC., P.A.
ARCHITECT
DEVELOPER

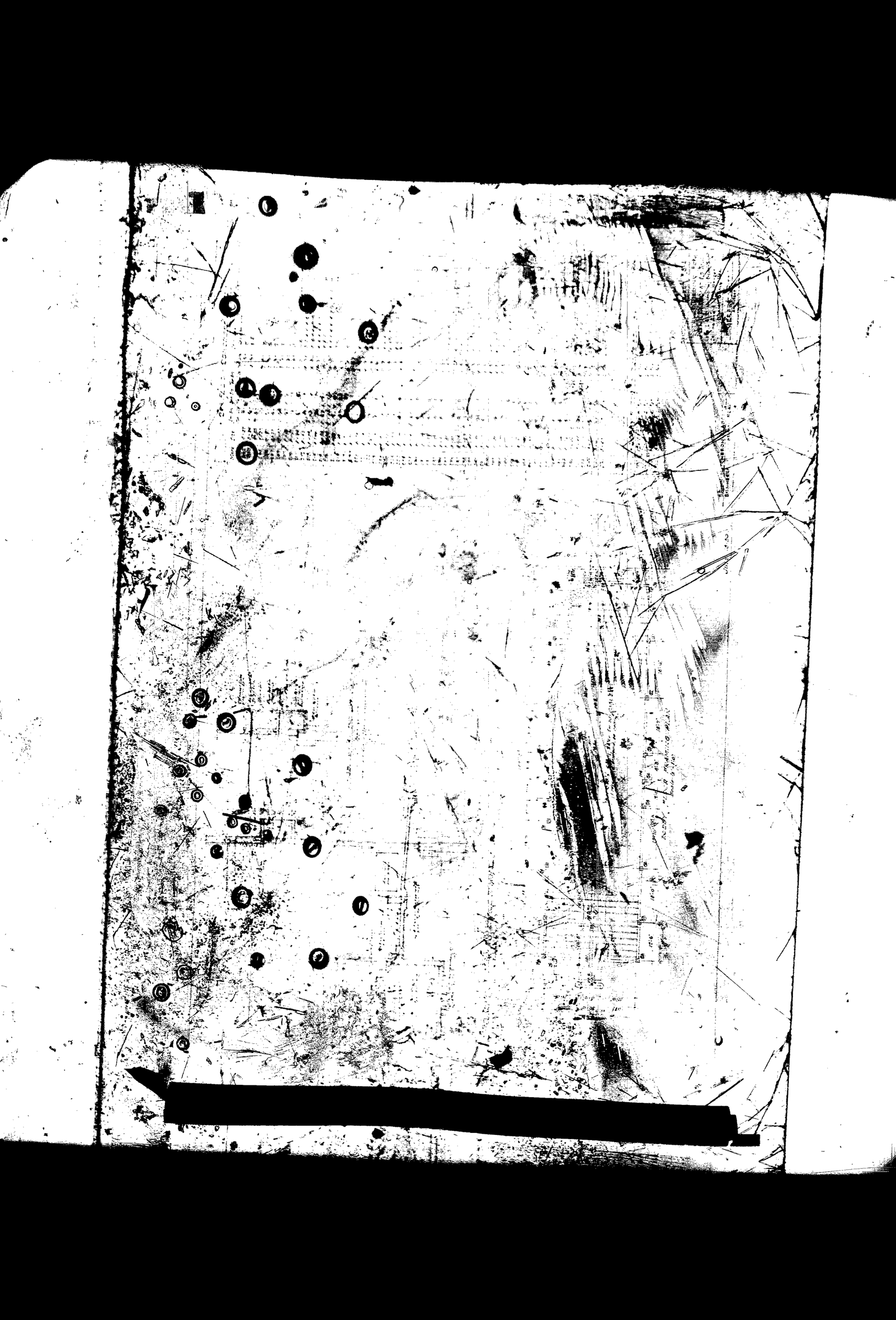
6979 COLLINS AVENUE



ABOVE IS THE ORIGINAL PLAN AND ELEVATIONS OF THE PUBLIC INTERIOR HOTEL LOBBY SPACE







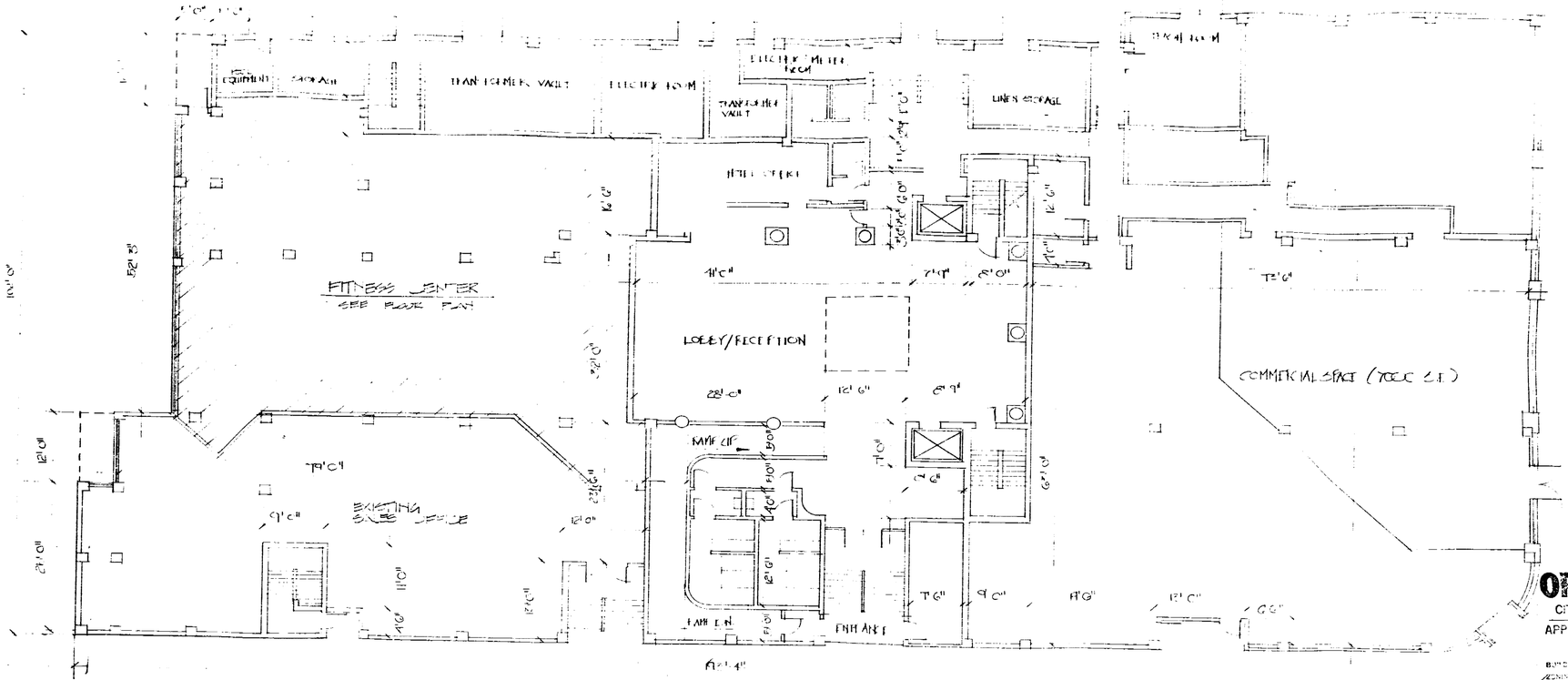
PERMIT NUMBER

B93 00234

ADDRESS

9

9



CRYSTAL BEACH FIRST FLOOR PLAN
SCALE 1/8"=1'0"

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING
ZONING
PLANNING
ELECTRICAL
MECHANICAL
FIRE PREVENTION
ENGINEERING

LEGAL DESCRIPTION
LOTS 1 TO 4 INCLUSIVE, BLOCK 1 OF FLEETWOOD SUBDIVISION, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 5 AT PAGE 34 OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA.

CITY OF MIAMI BEACH
RECEIVED
MAY 04 1992
BUILDING DEPARTMENT

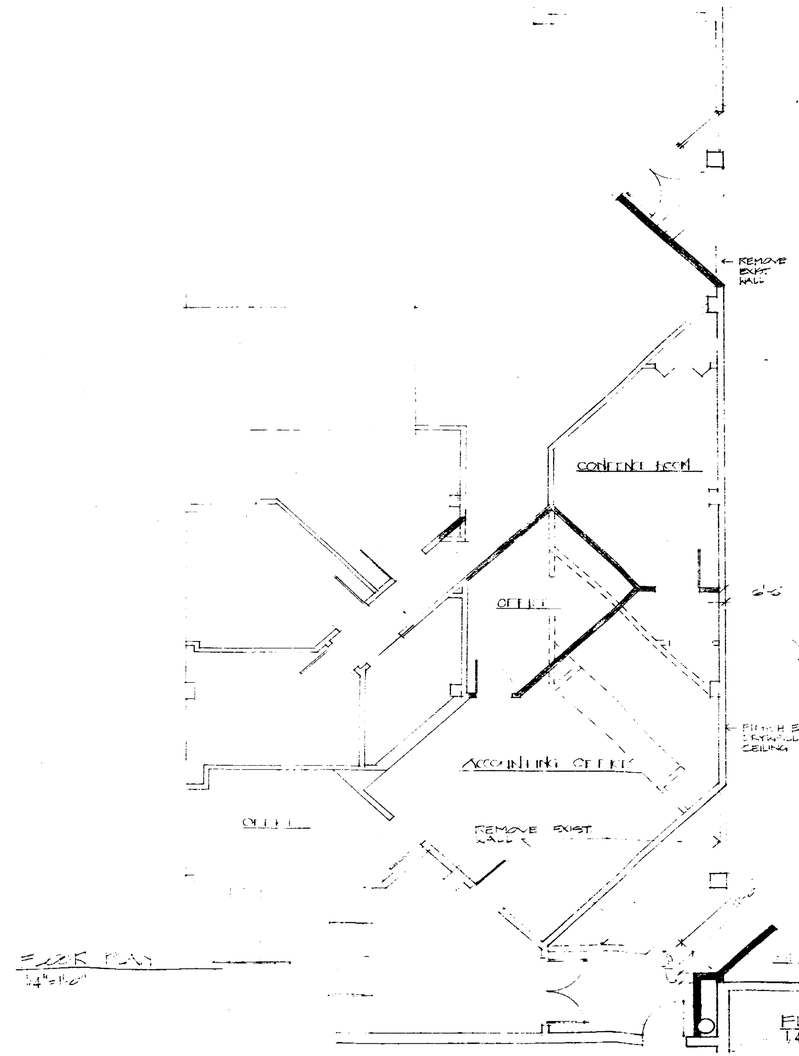
CRYSTAL BEACH CLUB
6685 COLLINS AVE. MIAMI BEACH, FLORIDA

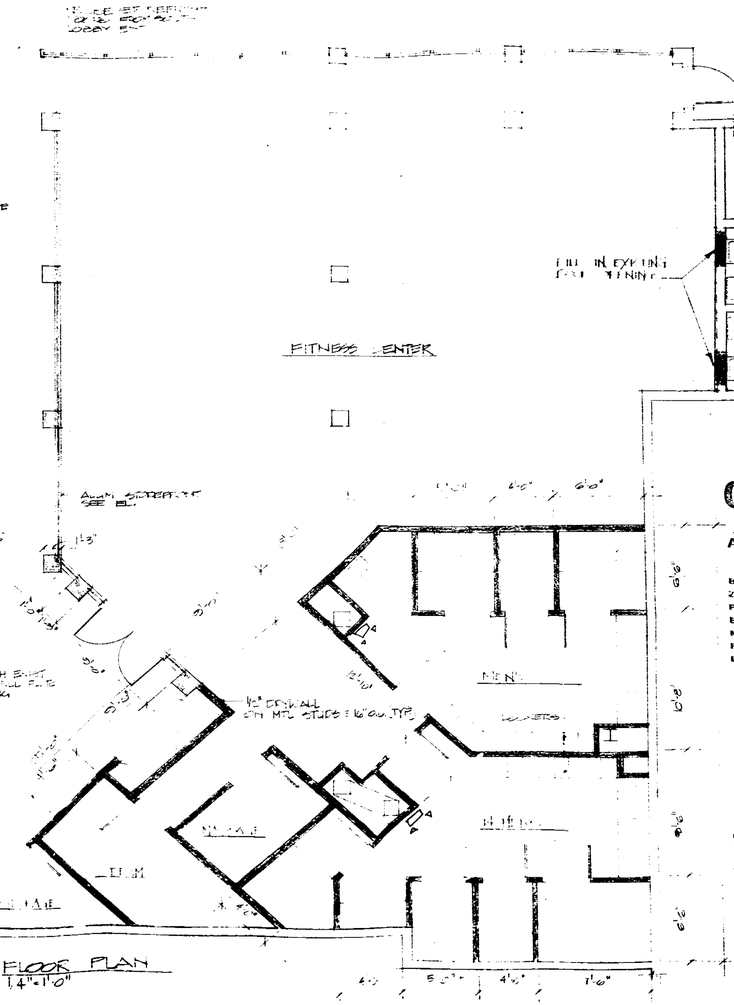
STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2750 POINCIANA BLDG. KISSIMMEE, FL 32741
407-396-4900

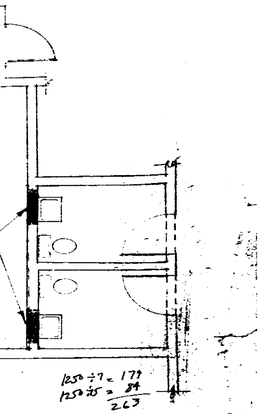
Date 4-16-93
Scale
Drawn
Job
Sht
Of

9

30







OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

CRYSTAL BEACH FITNESS CTR.
4-16-93
STANLEY FORREST, ARCHITECT

SHEET 2 of 3

9

ELEC NOTES
LIGHTING 8000 @ 1.5VA 12,000
STDH AC SMALLER LOAD LIMIT 0
HEAT 2KW 10,000
RECEPT 2,000
MISC 2,000
25% LARGEST MOTOR 1,250
27,250

TOTAL LINE LOAD 115A
NEUTRAL 67A

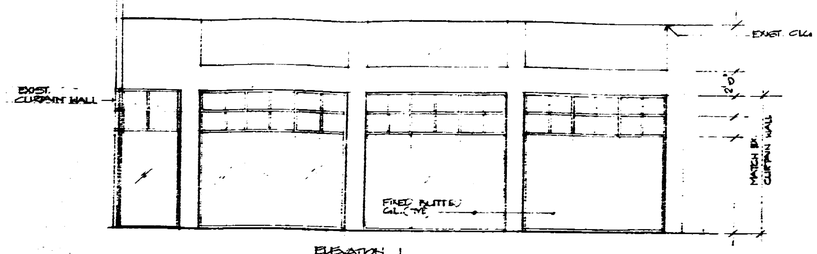
HVAC NOTES
AH-1 5 TON
COND. - ROOF MTD
A/C CONT. TO PROVIDE DUCT LAYOUT FOR ARCH APP.

2-#4 KW
1-#3 CU UNDER
1-#6 BOND
1½"C
12-3 EX PANEL
EXIST A
EXIST MDP
3-#6, 1-#8 THHN
3½"C
AH
COND
2-#8, 1"C

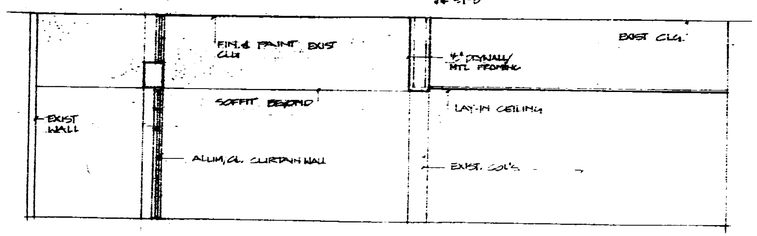
ELEC RISER DIAG.

NOTE: SPRINKLER SYSTEM TO COMPLY W/ NFPA 13
ALARM TO COMPLY W/ NFPA 72

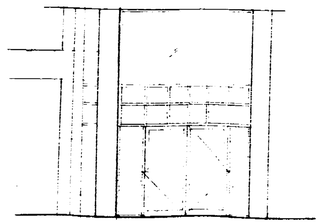
THE ELECTRIC SERVICE SHALL BE INCREASED TO 200 AMPS IF NOT ADEQUATE TO ACCEPT THE ADDITIONAL LOADS



ELEVATION 1
1/4"=1'-0"

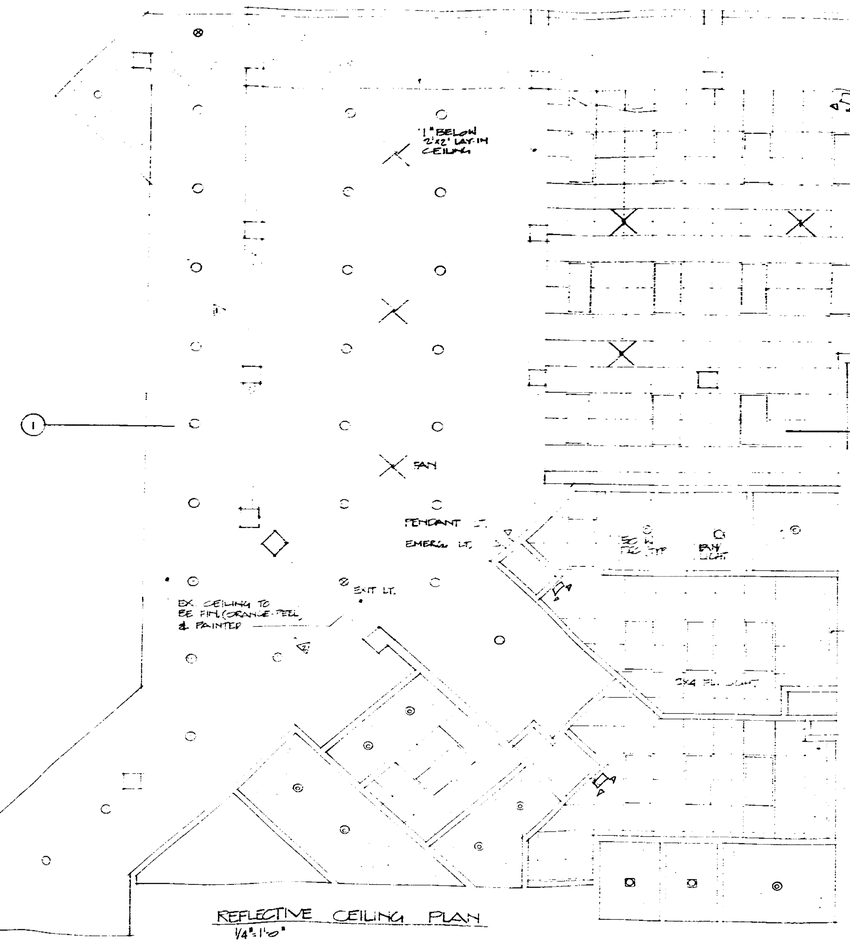


SECTION 1
1/4"=1'-0"



ELEVATION 2
1/4"=1'-0"

NOTE:
SPRINKLER CONTRACTOR TO PROVIDE SHOP DRWGS FOR ARCH. APPROVAL



REFLECTIVE CEILING PLAN
1/4"=1'-0"

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING:	5/4/93
ZONING:	5/27/93
PLUMBING:	
ELECTRICAL:	
MECHANICAL:	
FIRE PREVENTION:	
ENGINEERING:	

CRYSTAL BEACH FITNESS CTR.
4.16.93
STANLEY FORREST, ARCHITECT
FIRE SUPPRESSION / LIFE SAFETY SYSTEMS IN ACCORDANCE WITH SFBC CHAPTER 38

SHEET 3 of 3

9

30

PERMIT NUMBER

B95DD126

ADDRESS

4

EXISTING DISTRIBUTION PANEL

TYPE: SQUARE D
MOUNTING: SURFACE
A/C:

"MDP"
(METER)

MAINS: 1600 A.M.L.O.
BUS AMPS: 1600 A.
VOLTAGE: 120/240/1φ/3W.

CKT.	LOAD DESCRIPTION	DEMAND KVA.	DEMAND AMP	CIRCUIT BREAKER	FEEDER
1	2ND. FL. METER CENTER	100.00	280	3P-400A	4#600 CU. THW-3-½"C.
2	" "				
3	3RD. FL.				
4	" "				
5	4TH. FL. (NEW)				
6	" "				
7	SPACE				
	TOTAL				

EXISTING CALCULATIONS INCLUDING 4TH. FL. METER CENTER
DEMAND LOAD: 1,436,766 VA x 23% (NEC. 230-32) = 330456 VA. AT 240V. 1φ = 1377A.
BRANCH FEEDER DEMAND LOAD: 239461 VA x 40% (NEC. 230-32) = 95785 VA AT 240V. 1φ = 399A.

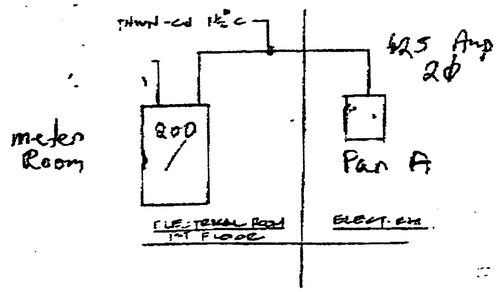
EXISTING
DISTRIBUTION PANEL

DEM. K.V.A.	CONNECTED K.V.A.	TRIP / POLE	CONDUIT	WIRE	REMARKS	CKT. NO.	CKT. NO.	REMARKS	WIRE	CONDUIT	TRIP / POLE	CONNECTED K.V.A.	DEM. K.V.A.
					SPACE	1	2						
					↓	3	4	A/C	6	3/4	30/3	5.0	
						5	6	↓					
	3.0	20/3	1/2	12	RECEPTACLE	7	8	RECEPTACLE	12	1/2	20/1	3.0	
						9	10						
	1.0	20/1	1/2	12	RECEP.	11	12	RECEP.	12	1/2	20/1	1.0	
					↓	13	14						
						15	16						
						17	18	↓					
						19	20	SPARE					
						21	22						
						23	24						
						25	26						
						27	28						
						29	30						
						31	32						
						33	34						
						35	36						
						37	38						
						39	40						
						41	42						

NO 1-1/2 Ø
10 12 12
LIGHTING

SPARE

Total 38.1 KW



ELECTRICAL RISER

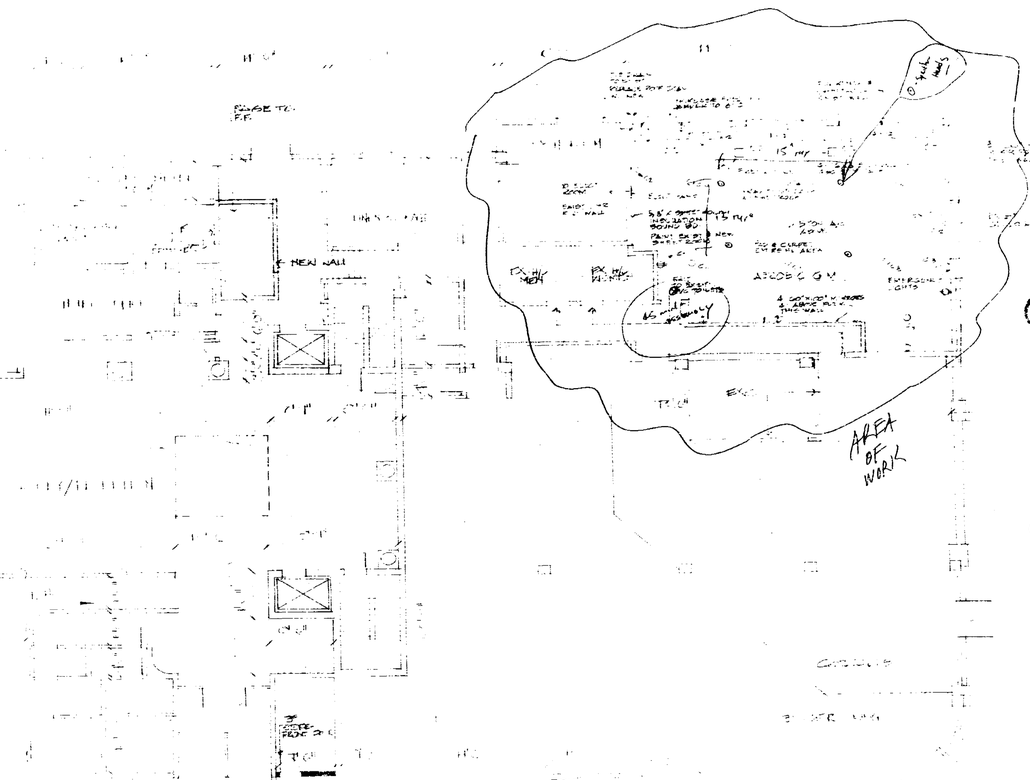
JOSE RAUL CONDE R.A.

THIS DRAWING AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND THE SAME MAY NOT BE USED, DISCLOSED OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

CRYSTAL BEACH CLUB
CRYSTAL BEACH, FLORIDA

3056655514

690 P01 JAN 31 '95 13:26



OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING:
*ZONING:
PLUMBING:
*ELECTRICAL:
MECHANICAL:
*FIRE PREVENTION:
ENGINEERING:

In Terrace Only

DADE COUNTY DEPT.

CRYSTAL BEACH CLUB
8885 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FORREST LEISURE CORP.
3750 POINCIANA BLVD. KISSIMMEE, FL 32741
407 396 4906

Date 11-11-92
Scale
Drawn
Job
Sheet A-2
39

84000

01 76

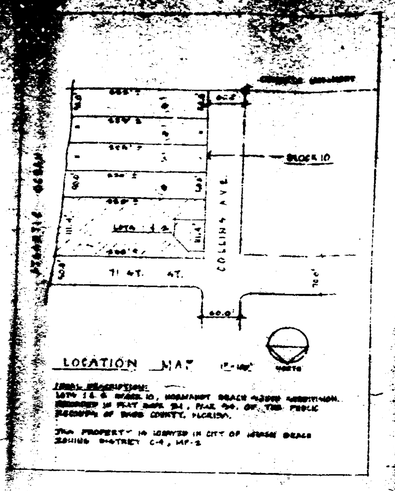
4

PERMIT NUMBER

B9002434

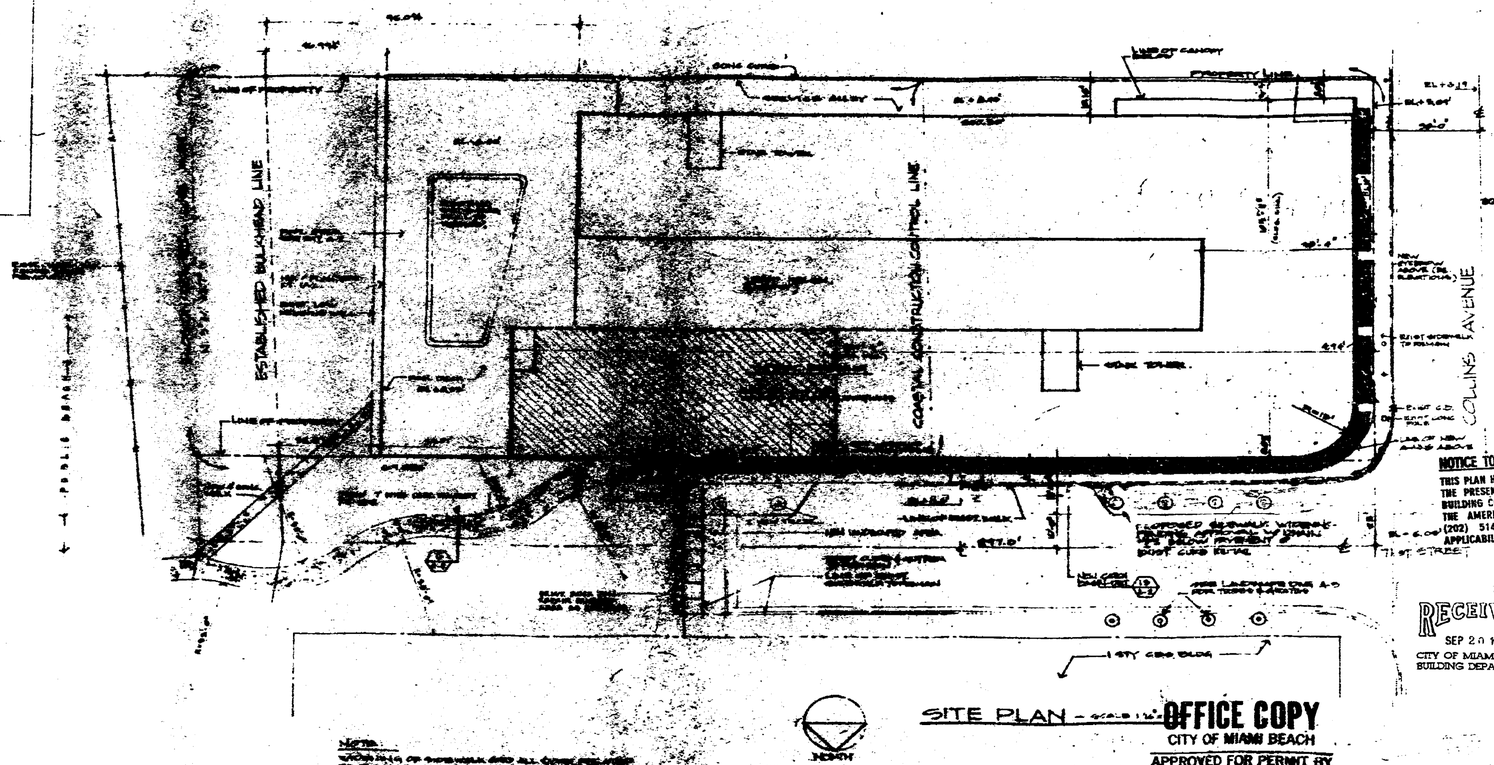
ADDRESS

11



LEGAL DESCRIPTION:
LOTS 1 & 2, BLOCK 10, INDIAN BEACH HOMES ADDITION, according to PLAT thereof, as recorded in PLAT BOOK 24, PAGE 104, OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA.

THE PROPERTY IS LOCATED IN CITY OF MIAMI BEACH ZONING DISTRICT C-4, MAP-2



SITE PLAN

DOOR HARDWARE: (Handicapped)
Handles, pulls, latches, locksets and other operating mechanisms on entrance doors, restroom and toilet room doors, and other doors which are required to be accessible, shall have a shape that is easy to grasp with one hand and which does not require tight grasping, tight pinching or twisting of the wrist to operate. Lever operated mechanisms and U-shaped handles are accessible designs.

NOTICE TO OWNER, DESIGNER & CONTRACTOR
THIS PLAN HAS BEEN REVIEWED FOR COMPLIANCE WITH THE PRESENT REQUIREMENTS OF THE SOUTH FLORIDA BUILDING CODE ONLY. PLEASE CONTACT THE OFFICE OF THE AMERICANS WITH DISABILITIES ACT (ADA) AT (202) 514-0301 IF YOU HAVE CONCERNS ABOUT THE APPLICABILITY OF THE ADA TO THIS PROJECT.

RECEIVED
SEP 20 1996
CITY OF MIAMI BEACH
BUILDING DEPARTMENT

OFFICE COPY
CITY OF MIAMI BEACH

APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE ASSIGNATION:
ENGINEERING:
PUBLIC WORKS:
OTHER (S):
HOUSING/FIRE:
CLERK:

REVISIONS
MORRIS ROSS
340 LINCOLN ROAD
MIAMI BEACH, FLA 33139

11

TO ACCESSIBLE ENTRANCE

CRYSTAL BEACH CLU

Stanley Forrest, Architect

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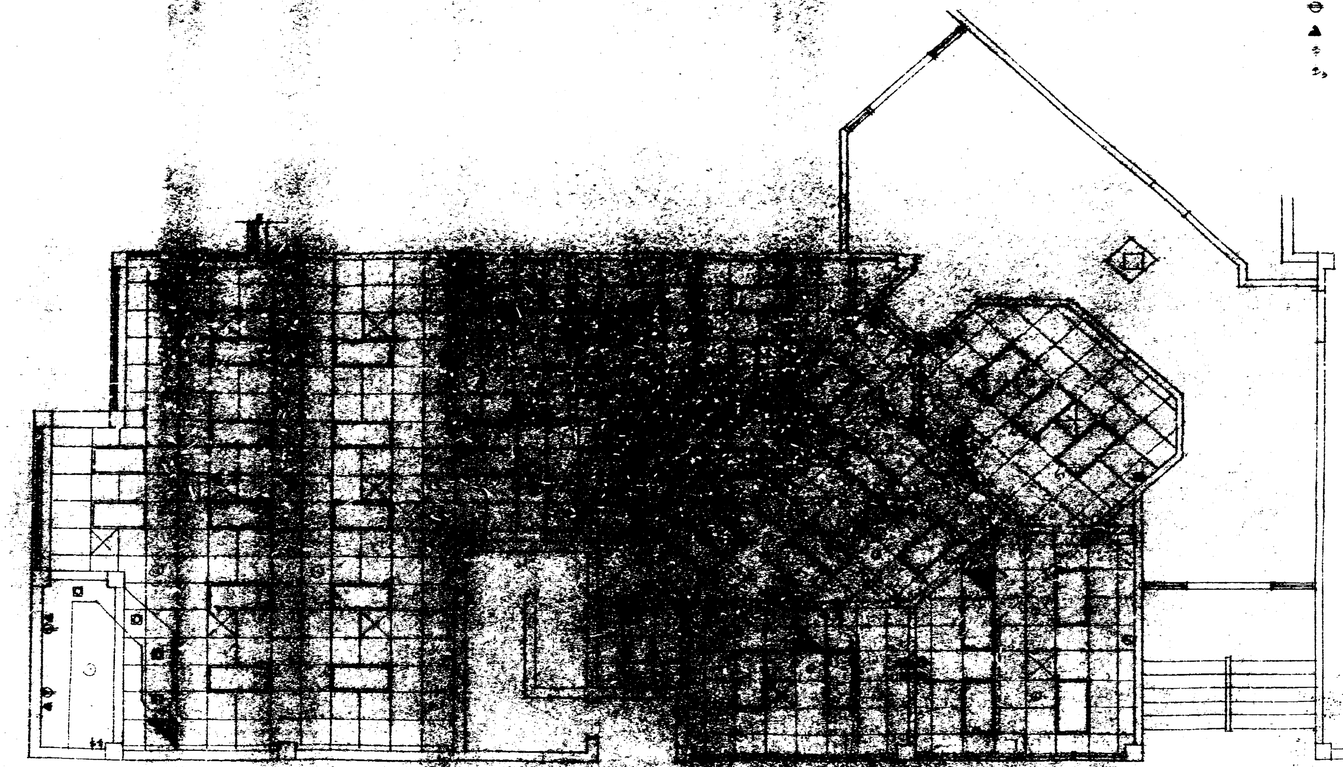
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
PUBLIC WORKS:
CONSTRUCTION:
ACCESSIBILITY:

LEGEND

- 2x2 FLUORESCENT FIXTURE
- RECESSED LIGHT
- DUPLEX OUTLET
- TELEPHONE
- SINGLE POLE SWITCH
- 3-WAY SWITCH



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CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PROTECTION:
ENGINEERING:
PUBLIC WORKS:
STRUCTURAL:
ACCESSIBILITY:
ELEVATOR:

VOID

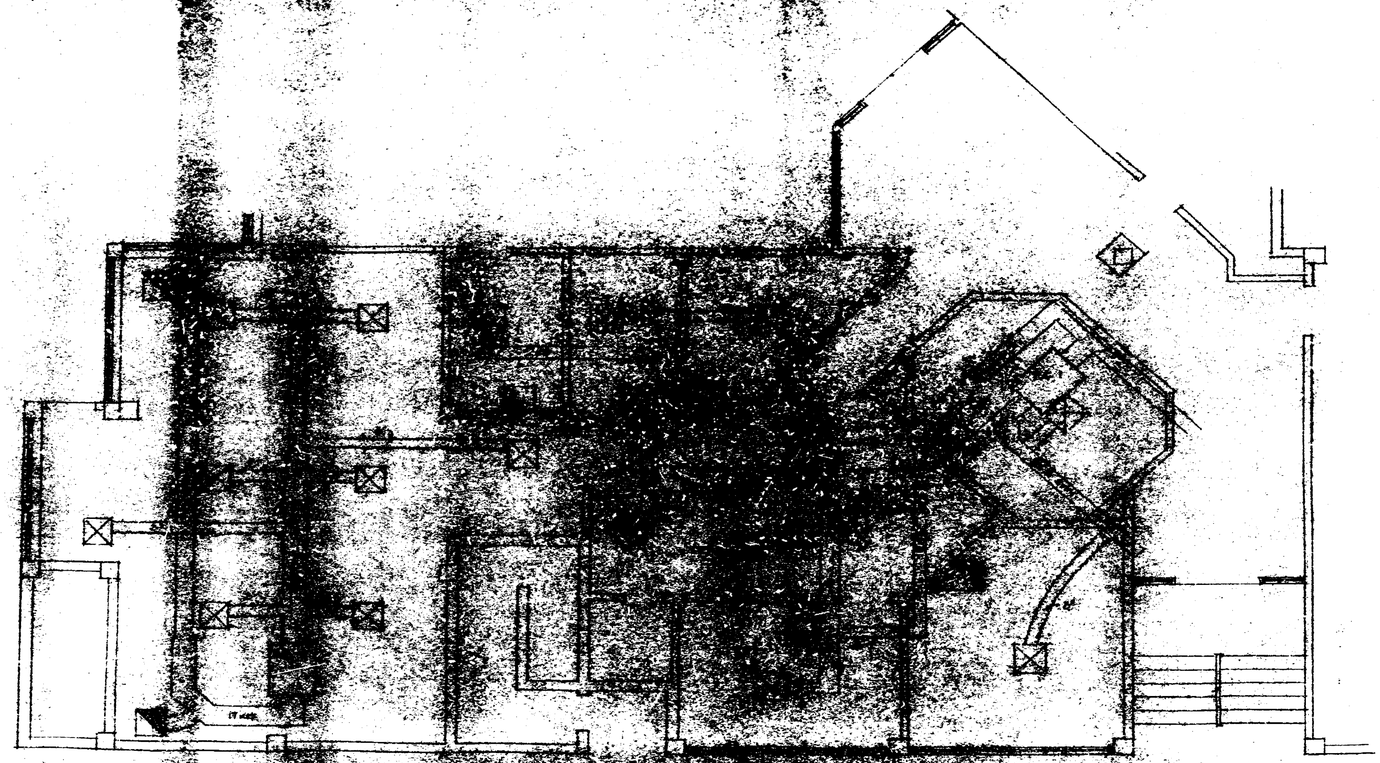
LOAD CALCULATIONS

LIGHTING: 2920 SQ FT @ 3VA = 7300 VA @ 125% = 9125
⊖ : 15 EA @ 180 VA = 3240
A/C : - 9 TON (1-4 TON + 1-5 TON) = 25,000
HEAT : 10 KW = 35 KW = 37,618 BTU
= 180

Stanley Forrest, Architect
Winter Park, Florida 32789

CRYSTAL BEACH

11



Stanley Forrest, Architect
Winter Park, Florida 32789

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:

Mark | Date | Revisions

Comm. No.
Date 8-15-86
Scale 1/4" = 1'-0"
Drawn
Checked
Approved

CRYSTAL BEACH CLUB

11

LEGEND

- 2x4 FLUORESCENT FIXTURE
- RECESSED LIGHT
- DUPLEX OUTLET
- TELEPHONE
- SINGLE POLE SWITCH
- THREE WAY SWITCH
- DUAL LAMP EMERGENCY LIGHT W/ BATTERY BACK-UP
- EXIT LIGHT W/ BATTERY BACK UP

JOB COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING:	
ZONING:	
PLUMBING:	
ELECTRICAL:	
MECHANICAL:	
FIRE PREVENTION:	
ENGINEERING:	
PUBLIC WORKS:	
STRUCTURAL:	
ACCESSIBILITY:	
ELEVATOR:	

Bailey Powell Architect
Miami Park, Florida 33166

Mark Date Revisions

Comm No
Date 6-13-96
Scale 1/4"=1'-0"
Drawn
Checked
Approved

CRYSTAL BEACH CLUB

BOARD

11

B9603434

B21910613

REMOVABLE CANVAS MUST BE REMOVED WHEN WIND SPEED APPROACH AND/OR EXCEED TO 75 MPH (34M/S) AND/OR HURRICANE WARNING OR ALERT IS ADVISED.
A HIGH WIND VELOCITY WARNING MUST BE POSTED WITH LEGIBLE AND READILY VISIBLE SIGN OR DECAL INSTRUCTIONS TO THE OWNER OR TENANT TO REMOVE OR REPOSITION THE CANVAS DURING SUCH PERIODS OR TIME.

CANOPY MUST BE DESIGNED WITH A QUICK REMOVAL OR BREAKAWAY FABRIC AND WIND VELOCITY EQUAL OR GREATER THAN 75 MPH

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

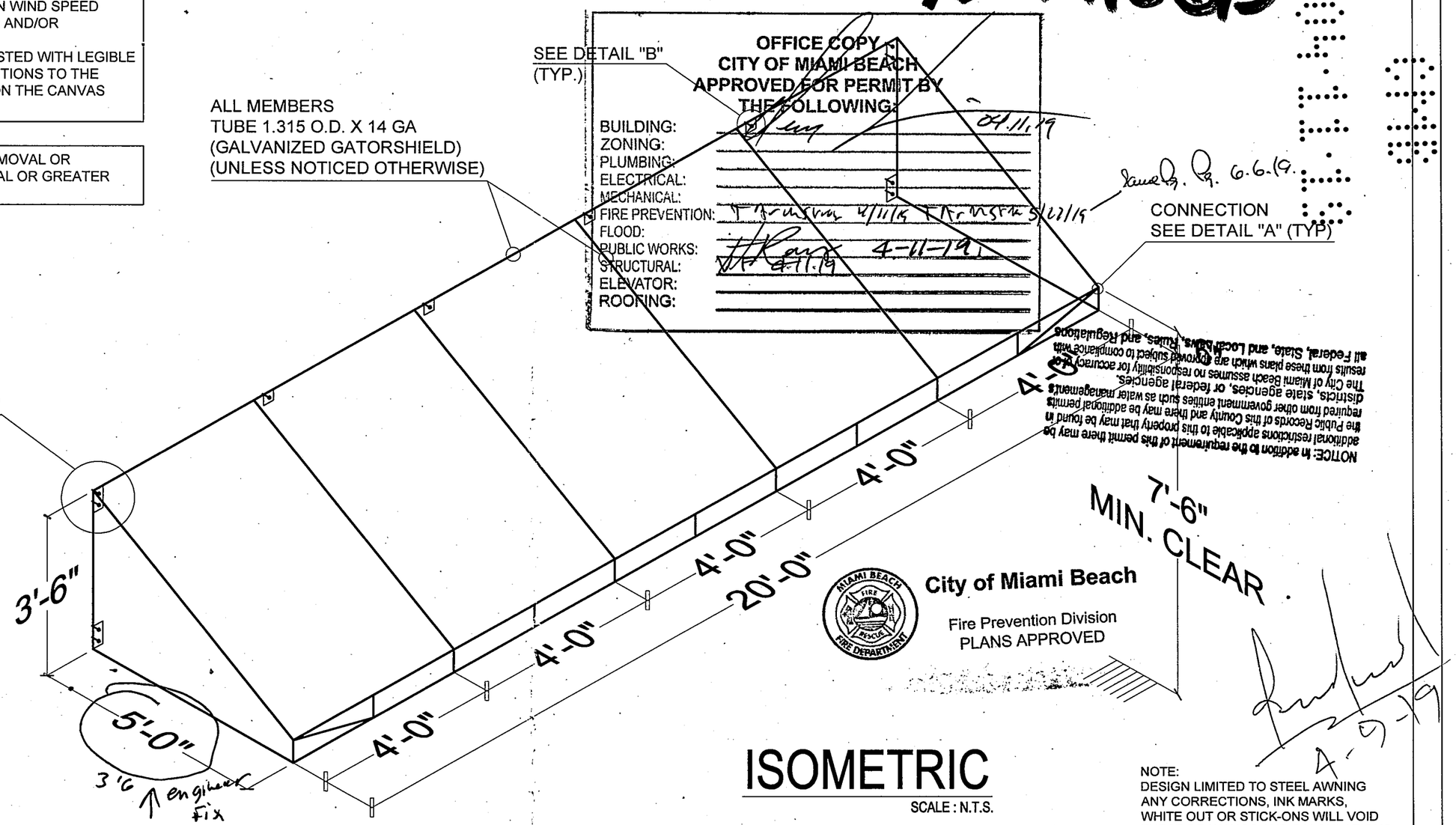
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
FLOOD:
PUBLIC WORKS:
STRUCTURAL:
ELEVATOR:
ROOFING:

SEE DETAIL "B" (TYP.)

ALL MEMBERS
TUBE 1.315 O.D. X 14 GA
(GALVANIZED GATORSHIELD)
(UNLESS NOTICED OTHERWISE)

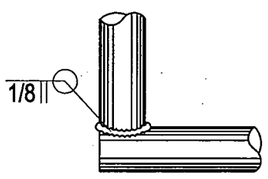
CONNECTION
SEE DETAIL "A" (TYP)

SEE DETAIL "C" (TYP.)



NOTICE: In addition to the requirement of this permit there may be additional restrictions applicable to this property that may be found in the Public Records of this County and there may be additional permits required from other government entities such as water management districts, state agencies, or federal agencies.
The City of Miami Beach assumes no responsibility for accuracy of results from these plans which are approved subject to compliance with all Federal, State, and Local laws, Rules, and Regulations

City of Miami Beach
Fire Prevention Division
PLANS APPROVED



TYPICAL
CONNECTION
DETAIL "A"
SCALE : N.T.S.

ISOMETRIC
SCALE : N.T.S.

NOTE:
DESIGN LIMITED TO STEEL AWNING
ANY CORRECTIONS, INK MARKS,
WHITE OUT OR STICK-ONS WILL VOID
THESE DRAWINGS AND CALCULATIONS.

B&G AWNINGS
15061 SW 137 AVE #274
MIAMI BEACH, FL. 33141
PHONE: (305) 282-4970
CELL: (305) 269-6904
www.bgawnings.net.

AWNING 20'-0" W X 5'-0" PROJ. X 3'-6" H.
6985 COLLINS AVE.
MIAMI BEACH FL. 33141

MILTON CUBAS, P. E., INC.
CONSULTING ENGINEERS PE # 51902
C.A. # 27267 S.I. # 6999901
1302 NE 125 ST
NORTH MIAMI, FLORIDA 33161
PHONE: (305) 891-4174 FAX (305) 891-4175
www.miltoncubaspe.com
E MAIL: miltoncubas@msn.com

DATE 04/08/19
SCALE N.T.S.
DESIGNED S.G.
DRAWN S.G.
SHEET 1 OF 2

STRUCTURAL NOTES

GENERAL NOTES:

ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. DO NOT SCALE THE DRAWINGS. FOLLOW WRITTEN DIMENSIONS ONLY. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED PART OF THE WORK.

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION.

DESIGN WIND LOADS:

THE STRUCTURAL FRAMING WAS DESIGNED USING F.B.C. 2017, THE FOLLOWING SUPERIMPOSED LOADS.

DESIGN WIND LOADS WERE DETERMINED IN ACCORDANCE WITH F.B.C 2017 AND ASCE 7-10.

WIND VELOCITY	: 115 MPH	EXPOSURE CATEGORY: D
IMPORTANCE FACTOR	: 1.00	GCPI: ± 0.0

STRUCTURAL STEEL:

THE MATERIAL, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL COMPLY WITH THE SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC-ASD, 13TH EDITION, 2006.

ALL PIPES TO BE NOMINAL DIAMETER GALVANIZED ASTM A501, Fy=36Ksi OR APPROVAL EQUAL.

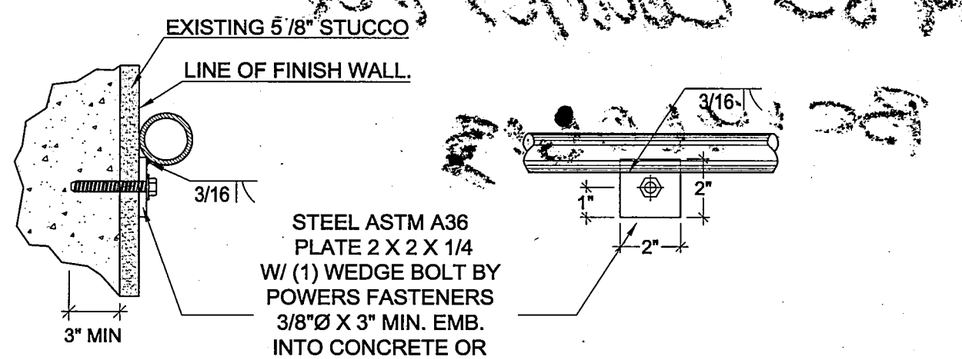
ALL TUBES TO BE OUTSIDE DIAMETER, GALVANIZED GATORSHIELD, Fy=50Ksi.OR APPROVAL EQUAL.

ALL STRUCTURAL TUBES TO BE GALVANIZED STEEL ASTM A500 GRADE B Fy=46Ksi OR APPROVAL EQUAL

ALL ANCHOR BOLTS SHALL BE WEDGE BOLT BY POWER FASTENER WITH WASHERS UNDER THE TURNED ELEMENT. BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH THE TURN-OF-THE-NUT METHOD.

WELDING SHALL BE DONE BY AWS CERTIFIED WELDERS USING THE MOST RECENT AWS APPROVED TECHNIQUES. SHIELDED METAL ARC WELDING (SMAW) SHALL USE E60XX LOW-HYDROGEN ELECTRODES.

ALL STEEL SHALL RECEIVE SHOP AND FIELD TOUCH-UP COATS OF PAINT IN ACCORDANCE WITH SSPC SPECIFICATIONS.

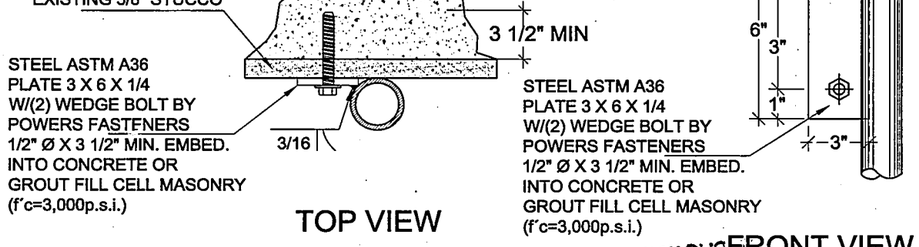


SIDE VIEW

FRONT VIEW

DETAIL "B"

SCALE : N.T.S.



TOP VIEW

FRONT VIEW

DETAIL "C"

SCALE : N.T.S.

NOTE:
DESIGN LIMITED TO STEEL AWNING
ANY CORRECTIONS, INK MARKS, WHITE OUT OR STICK-ONS WILL VOID THESE DRAWINGS AND CALCULATIONS.

B&G AWNINGS
15061 SW 137 AVE #274
MIAMI BEACH, FL. 33141
PHONE: (305) 282-4970
CELL: (305) 269-6904
www.bgawnings.net.

AWNING 20'-0" W X 5'-0" PROJ. X 3'-6" H.
6985 COLLINS AVE.
MIAMI BEACH FL. 33141

MILTON CUBAS, P. E., INC.
CONSULTING ENGINEERS PE # 51902
C.A. # 27267 S.I. # 6999901
1302 NE 125 ST
NORTH MIAMI, FLORIDA 33161
PHONE: (305) 891-4174 FAX (305) 891-4175
www.miltoncubaspe.com
E MAIL: miltoncubas@msn.com

DATE 04/08/19
SCALE N.T.S.
DESIGNED S.G.
DRAWN S.G.
SHEET 2 OF 2

6985 Collins Ave
B1910613

City of Miami Beach

Fire Prevention Division
PLANS APPROVED

PUBLIC WORKS
PLAN REVIEW NOTICE

Phone 305-673-7080 **Fax 305-673-7028**

THIS PLAN REVIEW CONSTITUTES APPROVAL FOR OBTAINING BUILDING PERMITS ONLY.

All construction and/or use of equipment in the right-of-way and/or easements, requires a separate Public Works Department permit prior to start of construction.

Permit Requirements: Proof of existing **sidewalks area condition** (pictures) and/or posting of sidewalk/roadway bonds (Public Works Inspection of the right-of-way will be required **prior to** final sign-off on the C.C./C.O. or the release of bonds).

Approved/Reviewed By: _____ Date: 4-19-19.

MILTON CUBAS, P.E., INC.
1302 N.E. 125 Street – North Miami – Florida 33161
Phone (305) 891-4174 Fax (305) 891-4175
E-mail: miltoncubas@msn.com
www.miltoncubaspe.com

COVER SHEET

DATE: April 08, 2019

PROJECT: AWNING 20'-0" W x 5'-0" PROJ. x 3'-6" H

ADDRESS: 6985 COLLINS AVENUE
MIAMI BEACH FL. 33141

CLIENT: B&G AWNINGS

DESIGN BY: S.G.

This computation book contains manual and computerized structural calculations, certain printed manufacturer's data and Computation pages are numbered 1 thru 26. Computations were performed to the best of our knowledge according to sound and generally accepted engineering principals and Code requirements, using nationally recognized computer software and in-house developed software. Prior to commissioning into service, the in-house developed software was thoroughly checked by performing parallel manual computations. The sign and seal provided herein are meant to cover all computation sheets pages 1 through 26.

Milton Cubas
Certification Authorization # 27267
F.L Reg. P.E # 51902
S.I. # 6999901

MILTON CUBAS, P.E., INC.
1302 N.E. 125 Street – North Miami – Florida 33161
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MECAWind Version 2.1.0.6 per ASCE 7-10

Developed by MECA Enterprises, Inc. Copyright 2019 www.mecaenterprises.com

Date	: 8/04/2019	Project No.	:
Company Name	: MILTON CUBA, P.E., INC.	Designed By	: S.G.
Address	: 1302 N.E. 125TH ST	Description	:
City	: NORTH MIAMI, FL. 33161	Customer Name	:
State	:	Proj Location	: 6985 COLLINS AVENUE MIAMI BEAC

File Location: C:\Users\ESTACION1\Documents\SINDY\MILTON CUBAS 2019\AWNINGS\B&G AWNINGS\6985 COLLINS AVENUE MIAMI BEACH FL. 33141\CALC\6985 COLLINS AVENUE MIAMI BEACH FL. 33141 (WIND-175).wnd

Directional Procedure Open Building (Ch 27 Part 1)

All pressures shown are based upon STRENGTH Design, with a Load Factor of 1

Basic Wind Speed(V)	= 175.00 mph		
Structural Category	= I	Exposure Category	= D
Natural Frequency	= N/A	Flexible Structure	= No
Importance Factor	= 1.00	Kd Directional Factor	= 0.85
Damping Ratio (beta)	= 0.01		
Alpha	= 11.50	Zg	= 700.00 ft
At	= 0.09	Bt	= 1.07
Am	= 0.11	Bm	= 0.80
Cc	= 0.15	l	= 650.00 ft
Epsilon	= 0.13	Zmin	= 7.00 ft
Slope of Roof	= 7.2 : 12	Slope of Roof(Theta)	= 30.96 Deg
L: Roof Hor. Width ft	= 5.00 ft	D: Roof Length along Ridge	= 20.00
Ht: Mean Roof Ht	= 5.00 ft	Type of Roof	= Monoslope

Gust Factor Category I Rigid Structures - Simplified Method

Gust1: For Rigid Structures (Nat. Freq.>1 Hz) use 0.85 = 0.85

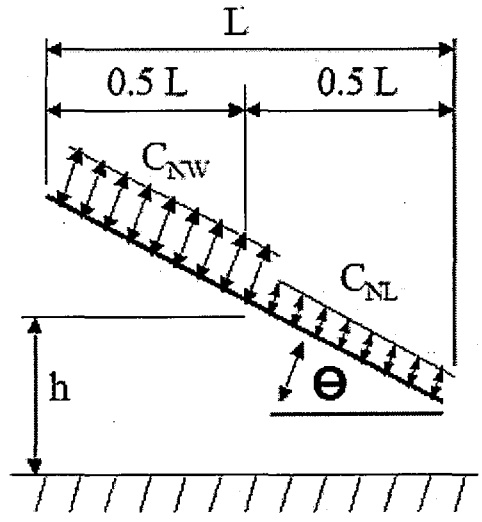
Gust Factor Category II Rigid Structures - Complete Analysis

Zm:	0.6*Ht	= 7.00 ft
lzm:	Cc*(33/Zm)^0.167	= 0.19
Lzm:	l*(Zm/33)^Epsilon	= 535.47 ft
Q:	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5	= 0.96
Gust2:	0.925*((1+1.7*lzm*3.4*Q)/(1+1.7*3.4*lzm))	= 0.90

Gust Factor Summary

Not a Flexible Structure use the Lessor of Gust1 or Gust2 = 0.85

Figure 6-18A Open Building-Monoslope Roof



Gamma = 0 degrees, Clear Wind Flow

Load Case	Cnw	Cnl	Windward Wind Pres. psf	Leeward Wind Pres. psf
A	-1.800	-1.800	-121.718	-121.718
B	-2.490	-0.510	-168.377	-34.487

Gamma = 180 degrees, Clear Wind Flow

Load Case	Cnw	Cnl	Windward Wind Pres. psf	Leeward Wind Pres. psf
A	2.100	2.110	142.005	142.681
B	2.610	1.010	176.492	68.298

Notes: 1) Cnw- Net Pressures (contributions from top and bottom surfaces for windward roof surfaces.
Notes: 2) Cnl- Net Pressures (contributions from top and bottom surfaces) for leeward roof surfaces.

Gamma = 90 degrees, Clear Wind Flow

Length Along Ridge of Roof	Roof Angle (Theta)	Load Case	Cn psf	Wind Pressure Along Ridge psf
<= 5.0	Theta<=45 deg	A	-0.800	-54.097
		B	0.800	54.097
>5.0&<=2*5.0	Theta<=45 deg	A	-0.600	-40.573
		B	0.500	33.811
>2*5	Theta<=45 deg	A	-0.300	-20.286
		B	0.300	20.286

Notes: 1) Cn- Net Pressures (contributions from top and bottom surfaces).
Notes: 2) Plus and minus signs signify pressures acting towards and away from the top roof surface, respectively.

MECAWind Version 2.1.0.6 per ASCE 7-10

Developed by MECA Enterprises, Inc. Copyright 2019 www.mecaenterprises.com

Date	: 8/04/2019	Project No.	:
Company Name	: MILTON CUBA, P.E., INC.	Designed By	: S.G.
Address	: 1302 N.E. 125TH ST	Description	:
City	: NORTH MIAMI, FL. 33161	Customer Name	:
State	:	Proj Location	: 6985 COLLINS AVENUE MIAMI BEAC

File Location: C:\Users\ESTACION1\Documents\SINDY\MILTON CUBAS 2019\AWNINGS\B&G AWNINGS\6985 COLLINS AVENUE MIAMI BEACH FL. 33141\CALC\6985 COLLINS AVENUE MIAMI BEACH FL. 33141 (WIND-115).wnd

Directional Procedure Open Building (Ch 27 Part 1)

All pressures shown are based upon STRENGTH Design, with a Load Factor of 1

Basic Wind Speed(V)	= 115.00 mph		
Structural Category	= I	Exposure Category	= D
Natural Frequency	= N/A	Flexible Structure	= No
Importance Factor	= 1.00	Kd Directional Factor	= 0.85
Damping Ratio (beta)	= 0.01		
Alpha	= 11.50	Zg	= 700.00 ft
At	= 0.09	Bt	= 1.07
Am	= 0.11	Bm	= 0.80
Cc	= 0.15	l	= 650.00 ft
Epsilon	= 0.13	Zmin	= 7.00 ft
Slope of Roof	= 7.2 : 12	Slope of Roof(Theta)	= 30.96 Deg
L: Roof Hor. Width	= 5.00 ft	D: Roof Length along Ridge	= 20.00 ft
Ht: Mean Roof Ht	= 5.00 ft	Type of Roof	= Monoslope

Gust Factor Category I Rigid Structures - Simplified Method

Gust1: For Rigid Structures (Nat. Freq.>1 Hz) use 0.85 = 0.85

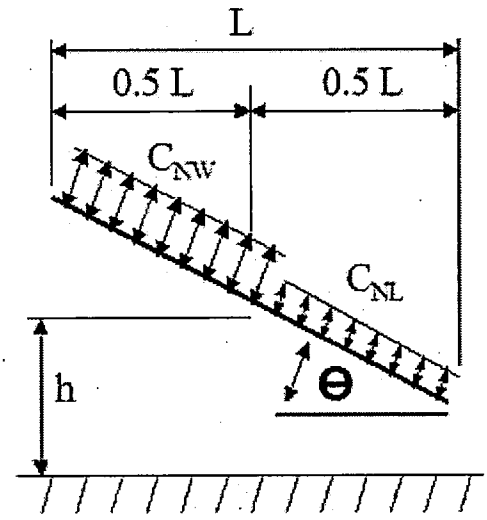
Gust Factor Category II Rigid Structures - Complete Analysis

Zm:	0.6*Ht	= 7.00 ft
lzm:	Cc*(33/Zm)^0.167	= 0.19
Lzm:	l*(Zm/33)^Epsilon	= 535.47 ft
Q:	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5	= 0.96
Gust2:	0.925*((1+1.7*lzm*3.4*Q)/(1+1.7*3.4*lzm))	= 0.90

Gust Factor Summary

Not a Flexible Structure use the Lessor of Gust1 or Gust2 = 0.85

Figure 6-18A Open Building-Monoslope Roof



Gamma = 0 degrees, Clear Wind Flow

Load Case	Cnw	Cnl	Windward Wind Pres. psf	Leeward Wind Pres. psf
A	-1.800	-1.800	-52.563	-52.563
B	-2.490	-0.510	-72.711	-14.893

Gamma = 180 degrees, Clear Wind Flow

Load Case	Cnw	Cnl	Windward Wind Pres. psf	Leeward Wind Pres. psf
A	2.100	2.110	61.323	61.615
B	2.610	1.010	76.216	29.493

Notes: 1) Cnw- Net Pressures (contributions from top and bottom surfaces for windward roof surfaces.
Notes: 2) Cnl- Net Pressures (contributions from top and bottom surfaces) for leeward roof surfaces.

Gamma = 90 degrees, Clear Wind Flow

Length Along Ridge of Roof	Roof Angle (Theta)	Load Case	Cn	Wind Pressure Along Ridge psf	
<= 5.0	Theta<=45 deg	A	-0.800	-23.361	WIND PRESSURE GOV.
		B	0.800	23.361	
>5.0&<=2*5.0	Theta<=45 deg	A	-0.600	-17.521	
		B	0.500	14.601	
>2*5	Theta<=45 deg	A	-0.300	-8.760	
		B	0.300	8.760	

Notes: 1) Cn- Net Pressures (contributions from top and bottom surfaces).
Notes: 2) Plus and minus signs signify pressures acting towards and away from the top roof surface, respectively.

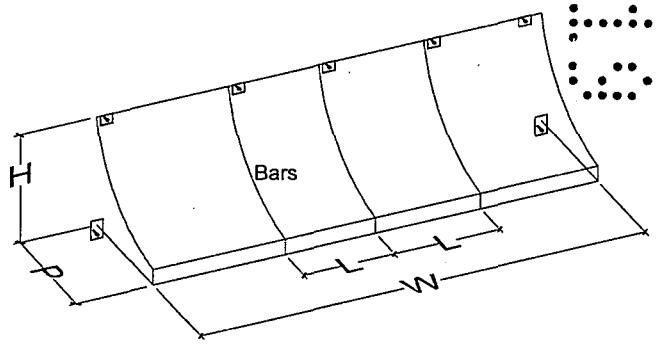
MILTON CUBAS, P. E., INC.
CONSULTANT ENGINEER PE # 51902
1302 NE 125 ST, NORTH MIAMI FL. 33161
PHONE: (305) 891-4174 FAX (305) 891-4175
E MAIL: miltoncubas@msn.com
www.miltoncubaspe.com

PROJECT:	
SUBJECT:	STRAP DESIGN
ADDRESS:	
DATE:	SHEET No.
DESIGN BY:	OF

WIND LOADS EVALUATION FOR AWNING DESIGN BASED ON FBC 2017 AND ASCE 7-10

ENTRY DATA

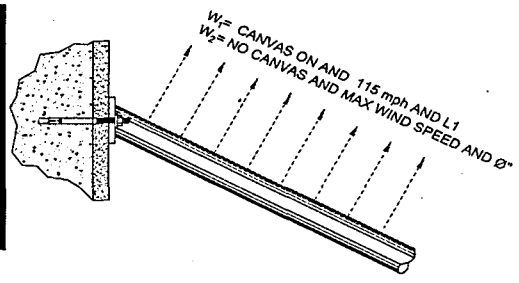
Wind 115 mph $_{(W1)}$	23.36 psf	(ULTIMATE)
Wind Max mph $_{(W2)}$	54.1 psf	(ULTIMATE)
Max Width (W)	20.0 ft	
Bar Quantity	6	
Bar Diameter	1.32 in	
Awning Overhang (P)	5.00 ft	
Awning Height (H)	3.50 ft	

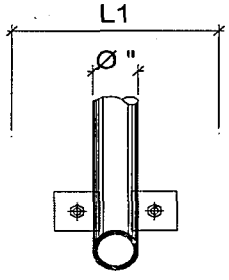


L BETWEEN BARS = 4 ft

ANALYSIS 1 (WIND 115 mph)

Span	6.10 ft
Tributary Width (L1)	4.0 ft
Wind Pressure	23.36 psf
Wind Load W1	93.4 lb/ft
Max Moment	435.1 lb ft
	[GOV]



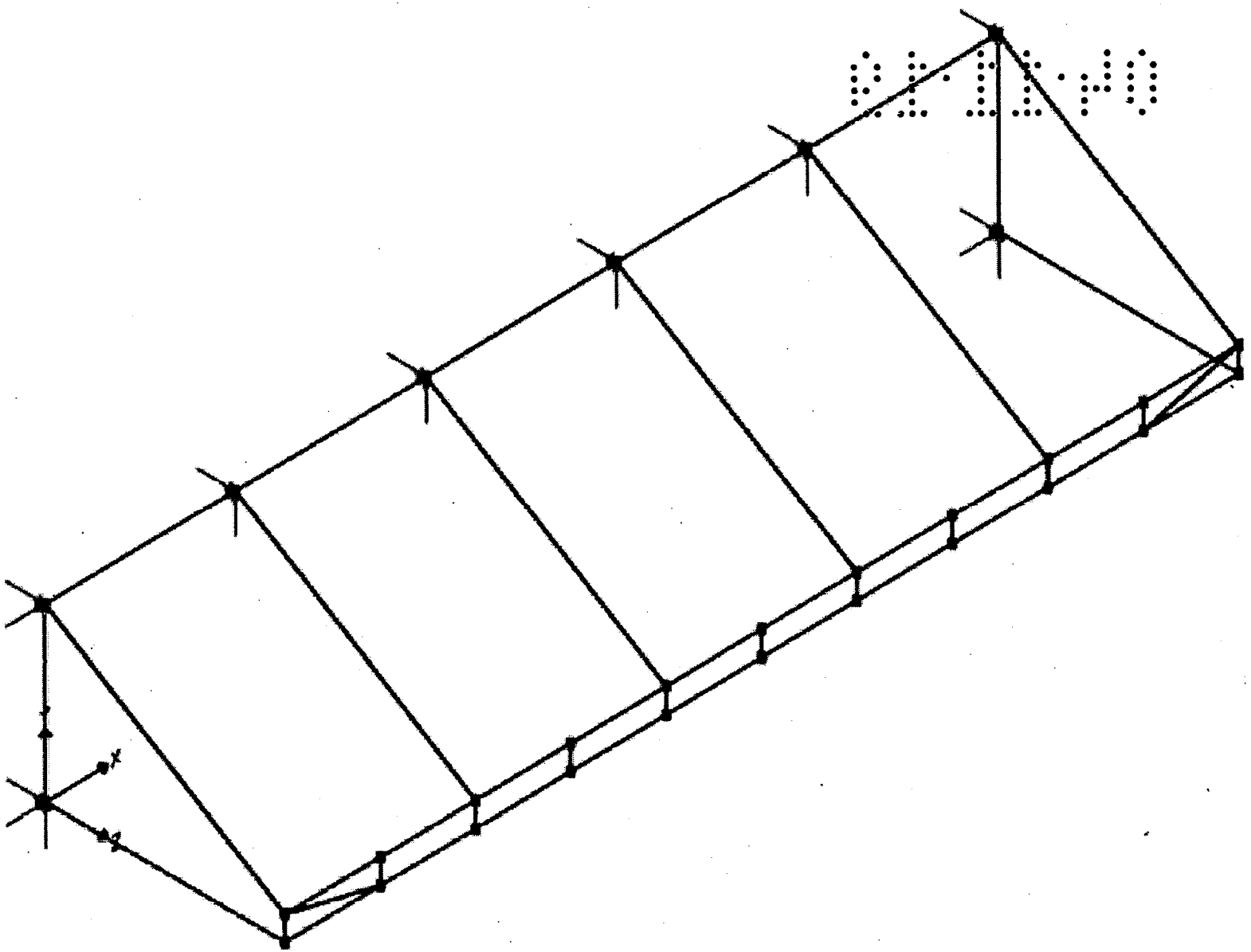


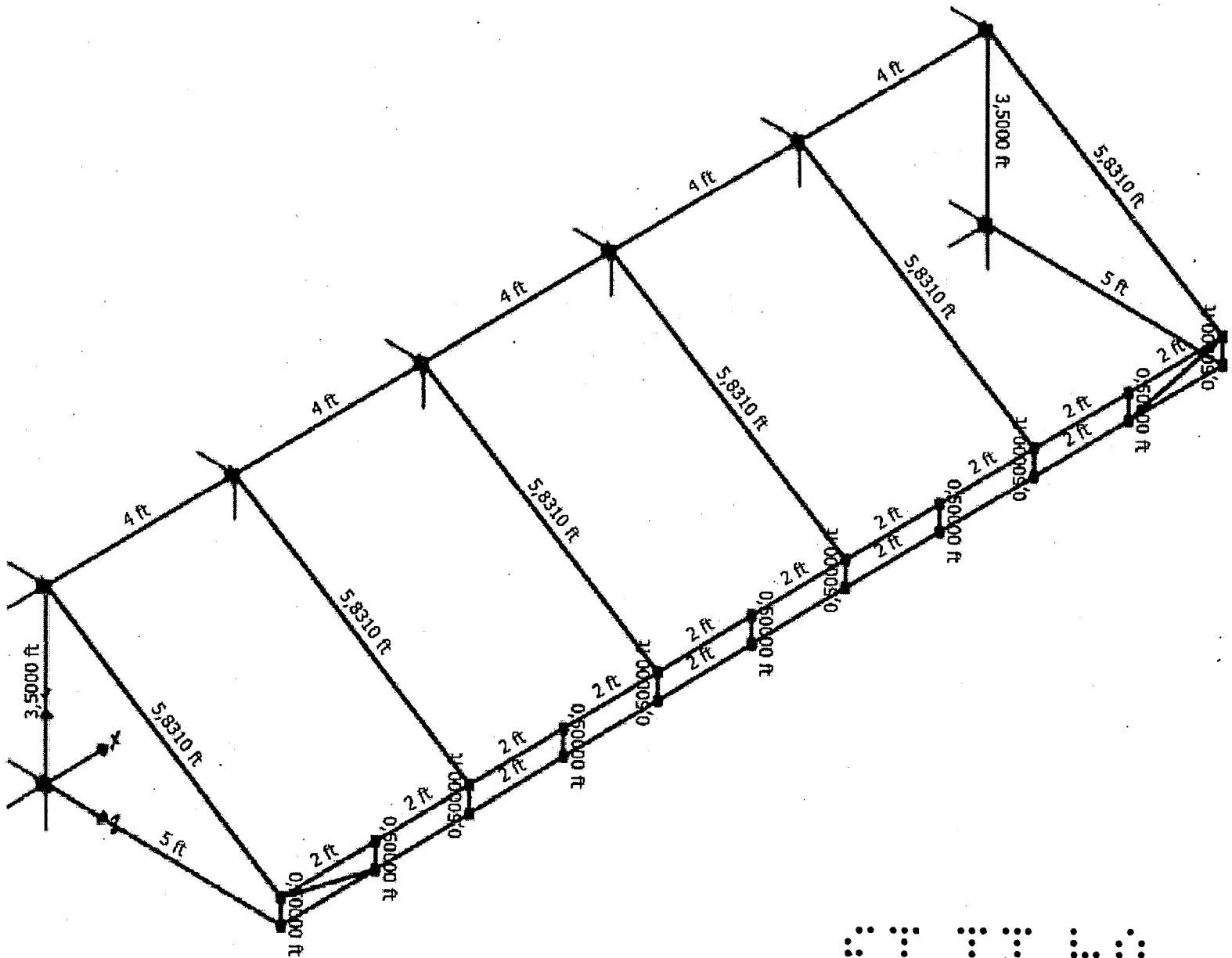
MEMBER TRIBUTARY WIDTH ANALSYS

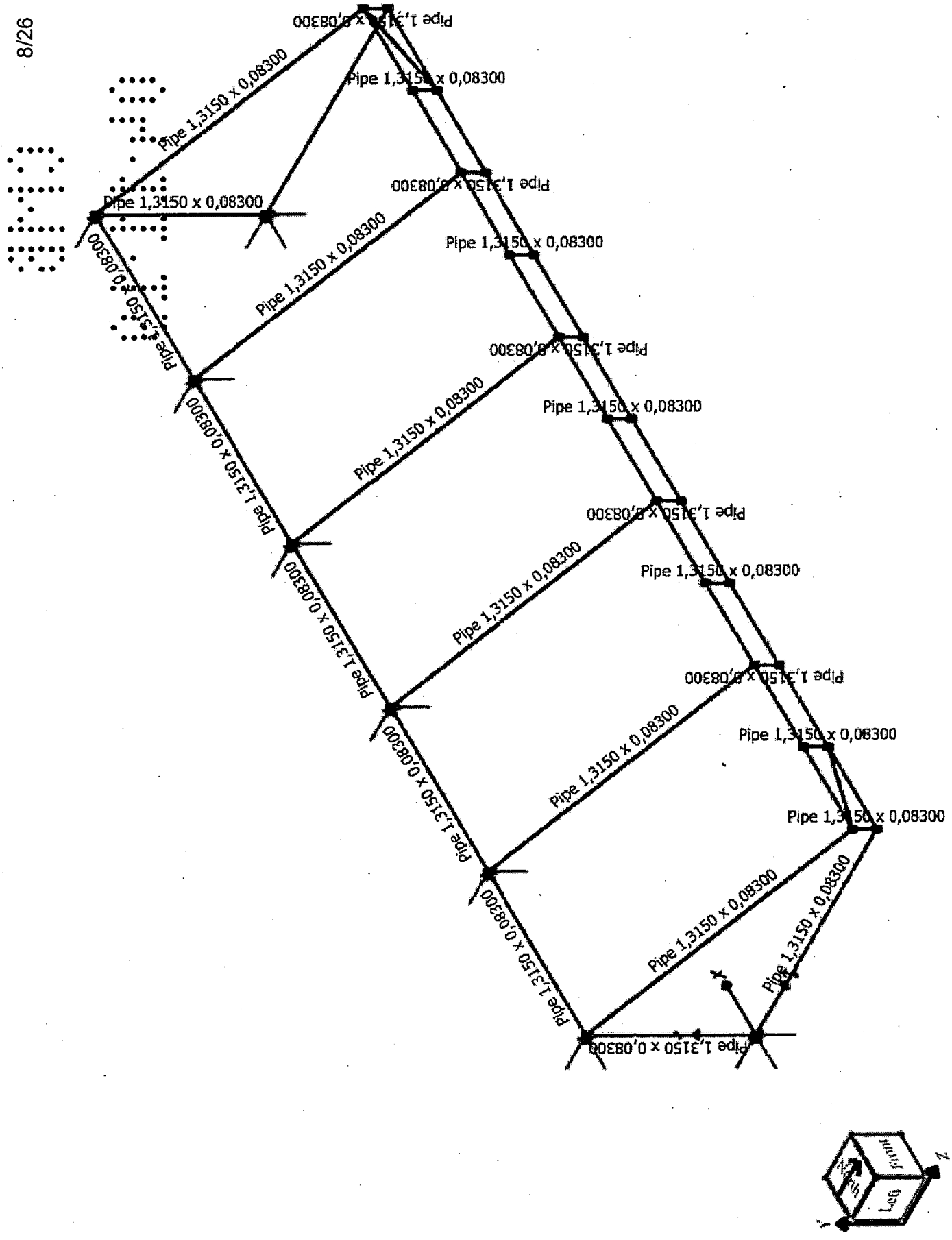
ANALYSIS 2 (MAX WIND SPEED)

Span	6.10 ft
Tributary Width ϕ	1.32 in
Wind Pressure	54.1 psf
Wind Load W1	5.9 lb/ft
Max Moment	27.6 lb ft

USE FOR AWNING DESIGN THE LOADS BASED ON WIND SPEED =115 mph


Y
Leg
front
X
Z


4 ft
3,5000 ft
5,8310 ft
5 ft
2 ft
0,500000 ft
Leg
Front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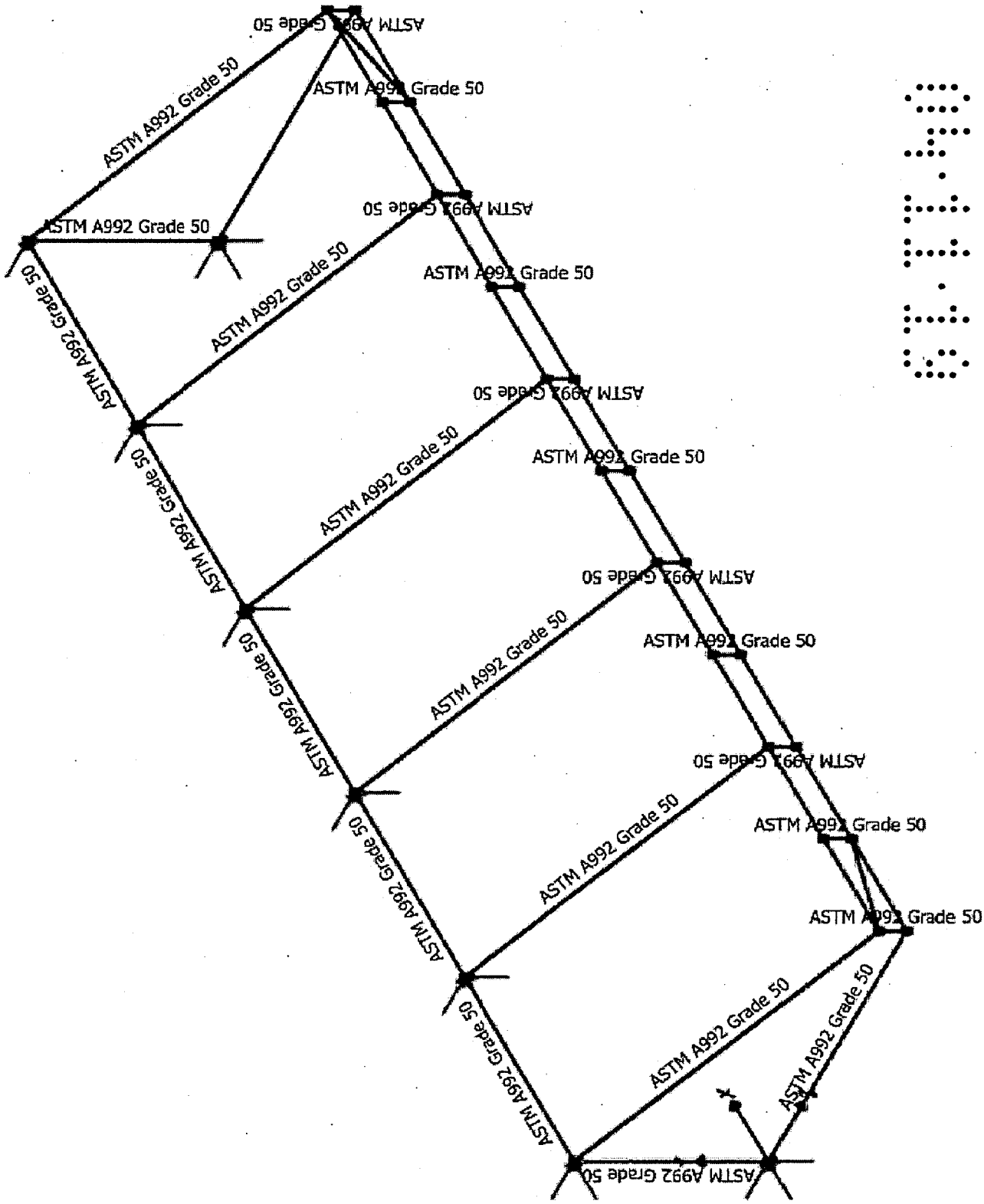
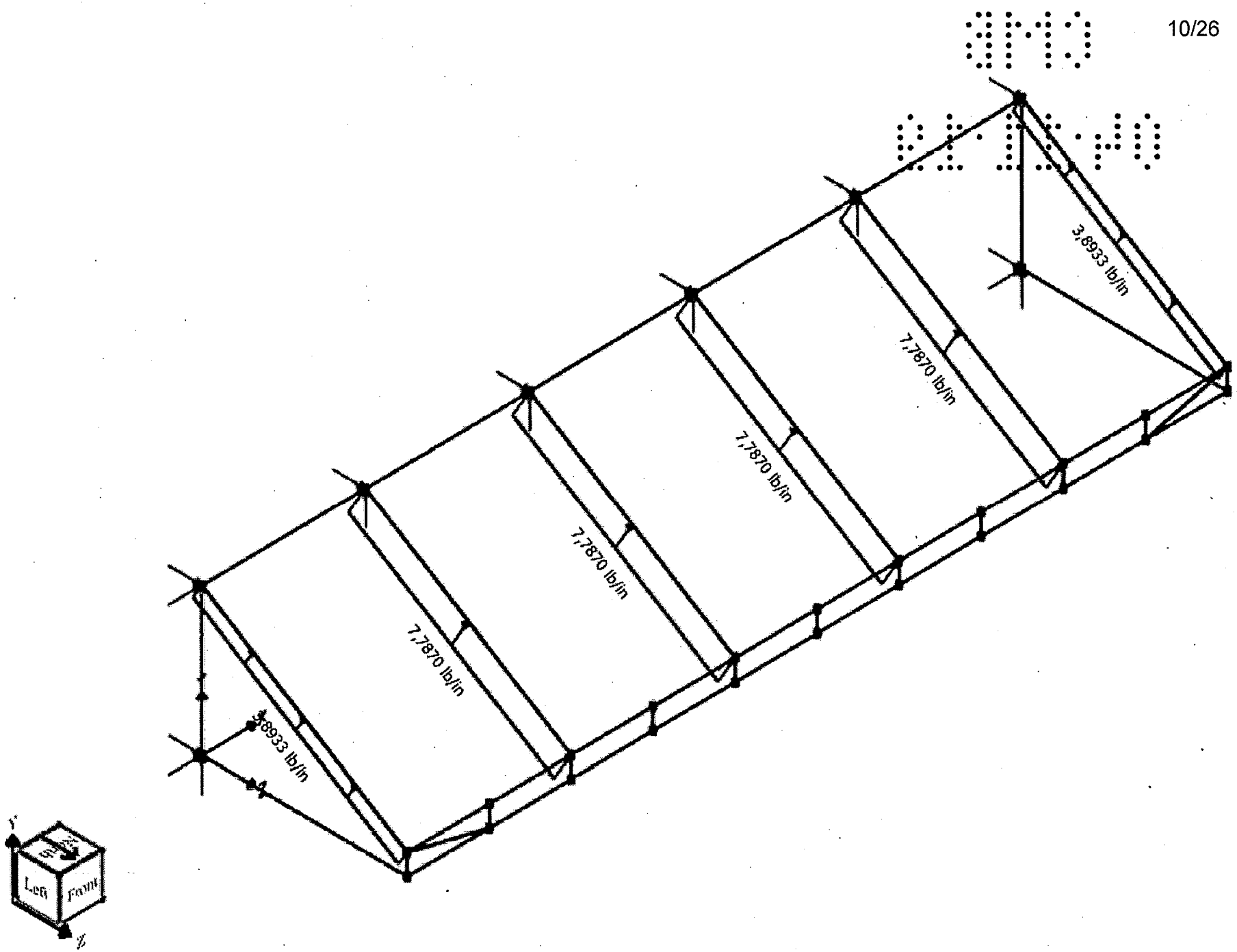
Pipe 1,3150 x 0,08300
Pipe 1,3150 x 0,08300


ASTM A992 Grade 50
ASTM A992 Grade 50
ASTM A992 Grade 50

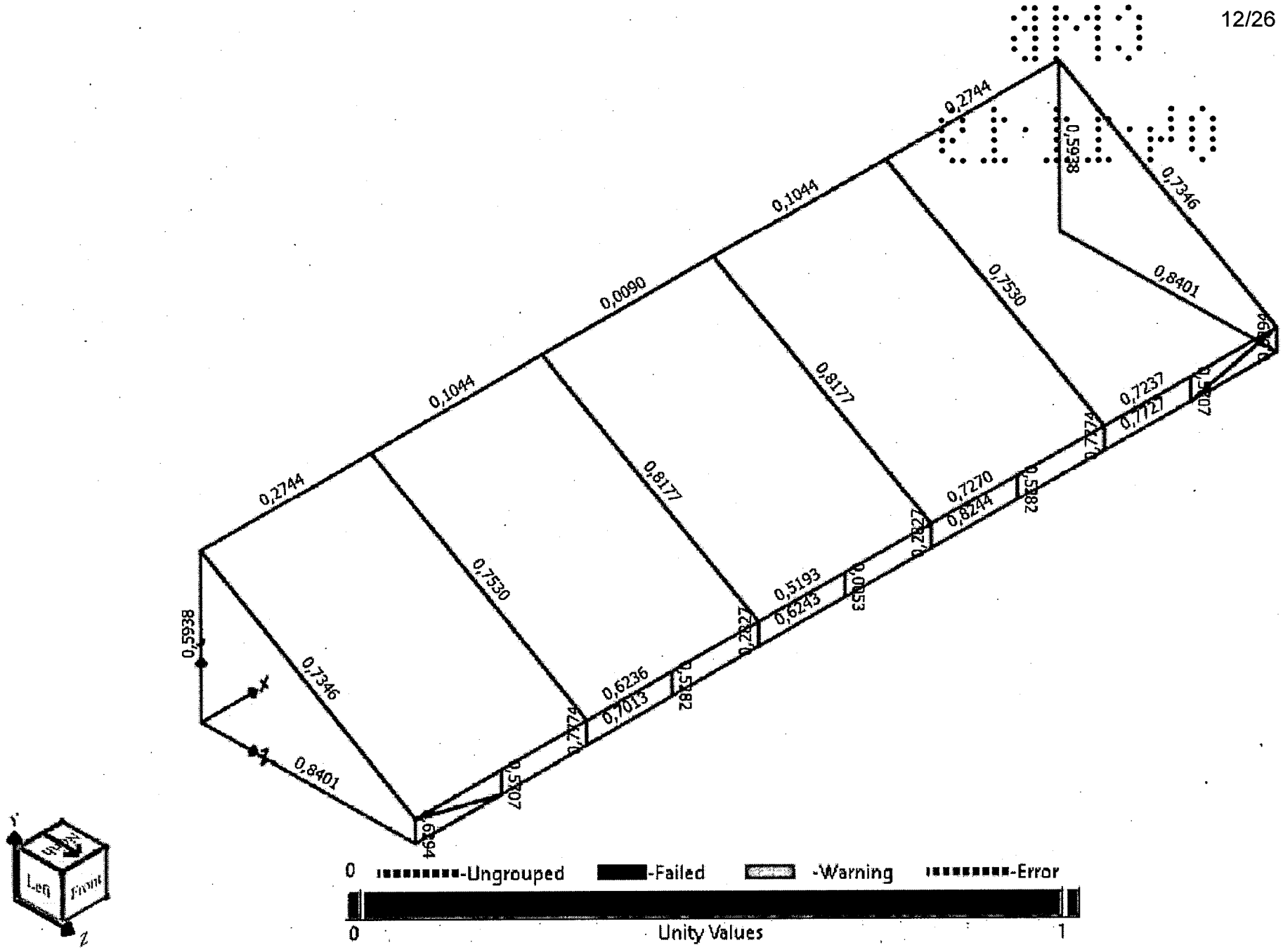

3,8933 lb/in
7,7870 lb/in
7,7870 lb/in
7,7870 lb/in
3,8933 lb/in
Y
Leg
Foot

ervice Load Cases

Name	Source	SelfWeight	Loads	Pattern
	Dead Loads	Vertical Direction	0	
/L(+Y)=23.36 PSF	Wind Pos Y Loads	Exclude	6	

esult Cases

Name	ID	Design Checks	Result Type	P-Delta?	Seismic Type
;D+.6W »+Y	6	Allowable (ASD)	Static	No	N.A.
;D+.7Di	7	Allowable (ASD)	Static	No	N.A.
)D+Di	13	Strength (LRFD)	Static	No	N.A.
)D+W »+Y	12	Strength (LRFD)	Static	No	N.A.
.2D+1.6L+.5Lr	9	Strength (LRFD)	Static	No	N.A.
.2D+1.6Lr+.5W »+Y	10	Strength (LRFD)	Static	No	N.A.
.2D+W+.5L+Lpa+.5Lr »+Y	11	Strength (LRFD)	Static	No	N.A.
.4D+1.6H	8	Strength (LRFD)	Static	No	N.A.
	1	No Design	Static	No	N.A.
+.6W »+Y	4	Allowable (ASD)	Static	No	N.A.
+.75(L+.6W+Lr) »+Y	5	Allowable (ASD)	Static	No	N.A.
+H+F	3	Allowable (ASD)	Static	No	N.A.
/L(+Y)=23.36 PSF	2	No Design	Static	No	N.A.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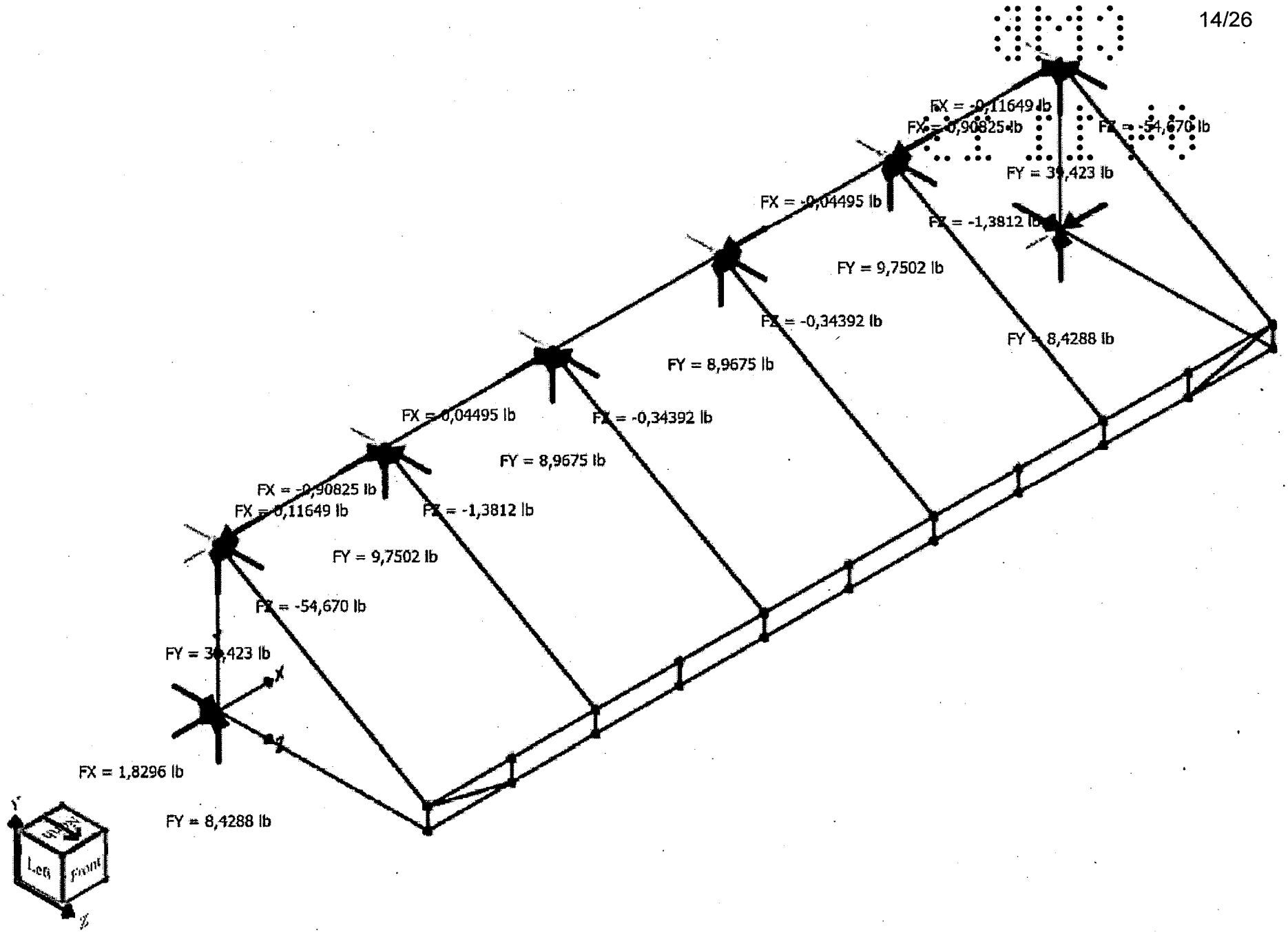
0,8244
0,5193
0,6243
0,6236
0,7013
0,7274
0,5382
0,2827
0,5307
0,6964
0 -Ungrouped -Failed -Warning -Error
0 Unity Values 1

actored Load Combinations

Name	Code	Effective Equation	Design	Deflection
;D+.6W »+Y	ASCE 7-10 ASD	0,6D + 0,6WL(+Y)=23.36 PSF	Allowable	Other
;D+.7Di	ASCE 7-10 ASD	0,6D	Allowable	Other
)D+Di	ASCE 7-10 LRFD	0,9D	Strength	Other
)D+W »+Y	ASCE 7-10 LRFD	0,9D + WL(+Y)=23.36 PSF	Strength	Other
.2D+1.6L+.5Lr	ASCE 7-10 LRFD	1,2D	Strength	Other
.2D+1.6Lr+.5W »+Y	ASCE 7-10 LRFD	1,2D + 0,5WL(+Y)=23.36 PSF	Strength	Other
.2D+W+.5L+Lpa+.5Lr »+Y	ASCE 7-10 LRFD	1,2D + WL(+Y)=23.36 PSF	Strength	Other
.4D+1.6H	ASCE 7-10 LRFD	1,4D	Strength	Other
+.6W »+Y	ASCE 7-10 ASD	D + 0,6WL(+Y)=23.36 PSF	Allowable	Other
+.75(L+.6W+Lr) »+Y	ASCE 7-10 ASD	D + 0,45WL(+Y)=23.36 PSF	Allowable	Other
+H+F	ASCE 7-10 ASD	D	Allowable	Other

lember Loads, Uniform

Member	Service Case	Direction	Magnitude	Full Length?	Start Offset in	End Offset in	Projected?	Predefined Load
011	WL(+Y)=23.36 PSF	Shear y	3,8933 lb/in	Yes	0,0000	69,9714	No	N.A.
012	WL(+Y)=23.36 PSF	Shear y	3,8933 lb/in	Yes	0,0000	69,9714	No	N.A.
013	WL(+Y)=23.36 PSF	Shear y	7,7870 lb/in	Yes	0,0000	69,9714	No	N.A.
014	WL(+Y)=23.36 PSF	Shear y	7,7870 lb/in	Yes	0,0000	69,9714	No	N.A.
015	WL(+Y)=23.36 PSF	Shear y	7,7870 lb/in	Yes	0,0000	69,9714	No	N.A.
016	WL(+Y)=23.36 PSF	Shear y	7,7870 lb/in	Yes	0,0000	69,9714	No	N.A.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FX = -0,90825 lb
FZ = -54,670 lb
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FZ = -1,3812 lb
FY = 9,7502 lb
FZ = -0,34392 lb
FY = 8,4288 lb
FY = 8,9675 lb
FX = -0,04495 lb
FZ = -0,34392 lb
FY = 8,9675 lb
FX = -0,90825 lb
FX = 0,11649 lb
FZ = -1,3812 lb
FY = 9,7502 lb
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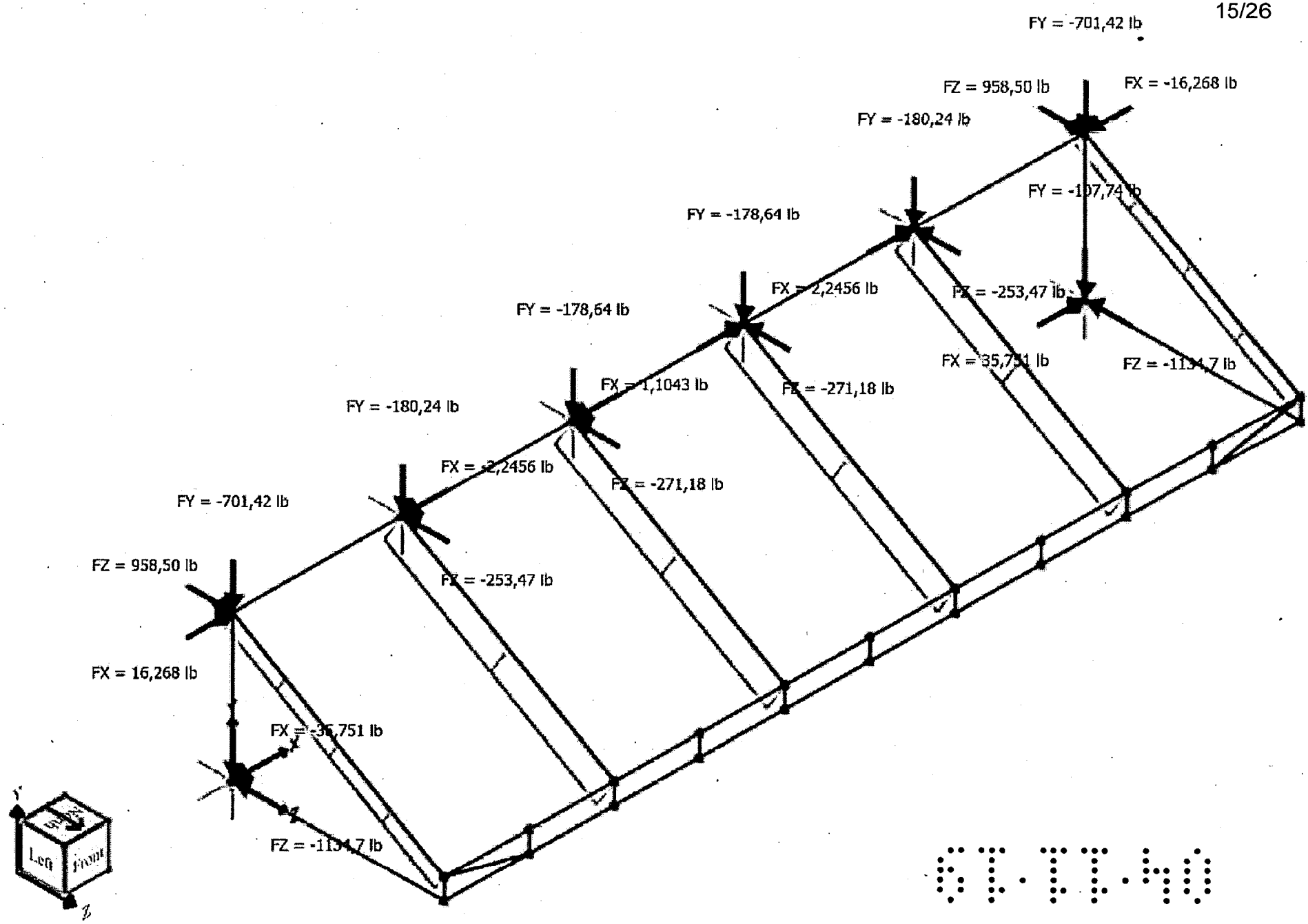
FY = 39,423 lb
FX = 1,8296 lb
FY = 8,4288 lb
Y
X
Z
Left
Front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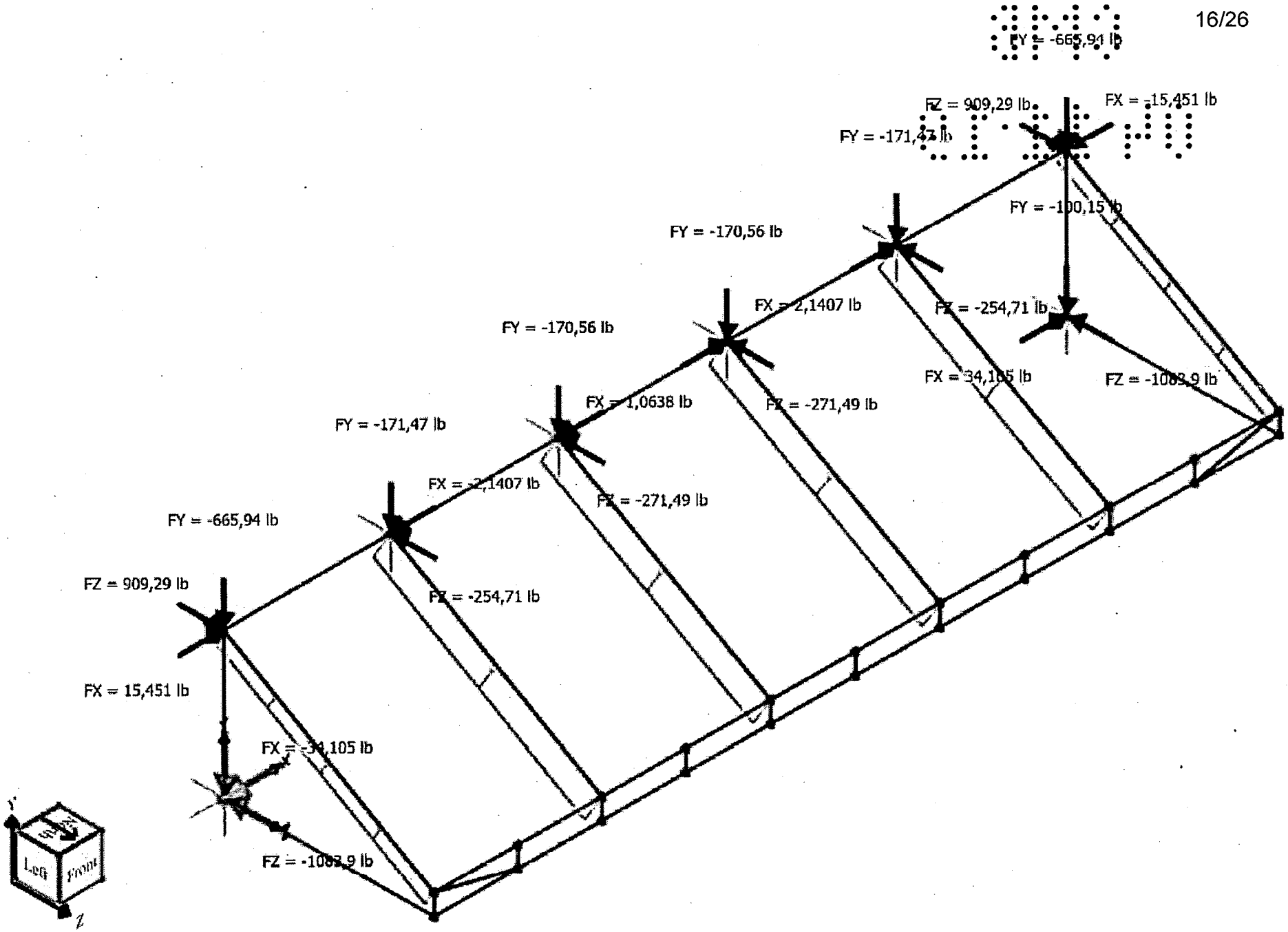
FY = -180,24 lb
FY = -107,74 lb
FY = -178,64 lb
FX = 2,2456 lb
FZ = -253,47 lb
FY = -178,64 lb
FX = 35,751 lb
FZ = -1134,7 lb
FX = 1,1043 lb
FZ = -271,18 lb
FY = -180,24 lb
FX = 2,2456 lb
FZ = -271,18 lb
FY = -701,42 lb
FZ = 958,50 lb
FZ = -253,47 lb
FX = 16,268 lb
FX = 35,751 lb
FZ = -1134,7 lb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FZ = 909,29 lb
FX = -15,451 lb
FY = -171,47 lb
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FY = -170,56 lb
FX = 2,1407 lb
FZ = -254,71 lb
FY = -170,56 lb
FX = 34,105 lb
FZ = -1083,9 lb
FX = 1,0638 lb
FZ = -271,49 lb
FY = -171,47 lb
FX = -2,1407 lb
FZ = -271,49 lb
FY = -665,94 lb
FZ = -254,71 lb
FZ = 909,29 lb
FX = 15,451 lb
FX = -34,105 lb
FZ = -1083,9 lb
Left
Front

PDA Powers Design Assist	Company name:	
	Project:	Date: 8/04/2017
Version: 2.4.6290.27783	Project number:	Page: 1/5

PROJECT DATA:

Company name:

Project name:

Name of the project engineer:

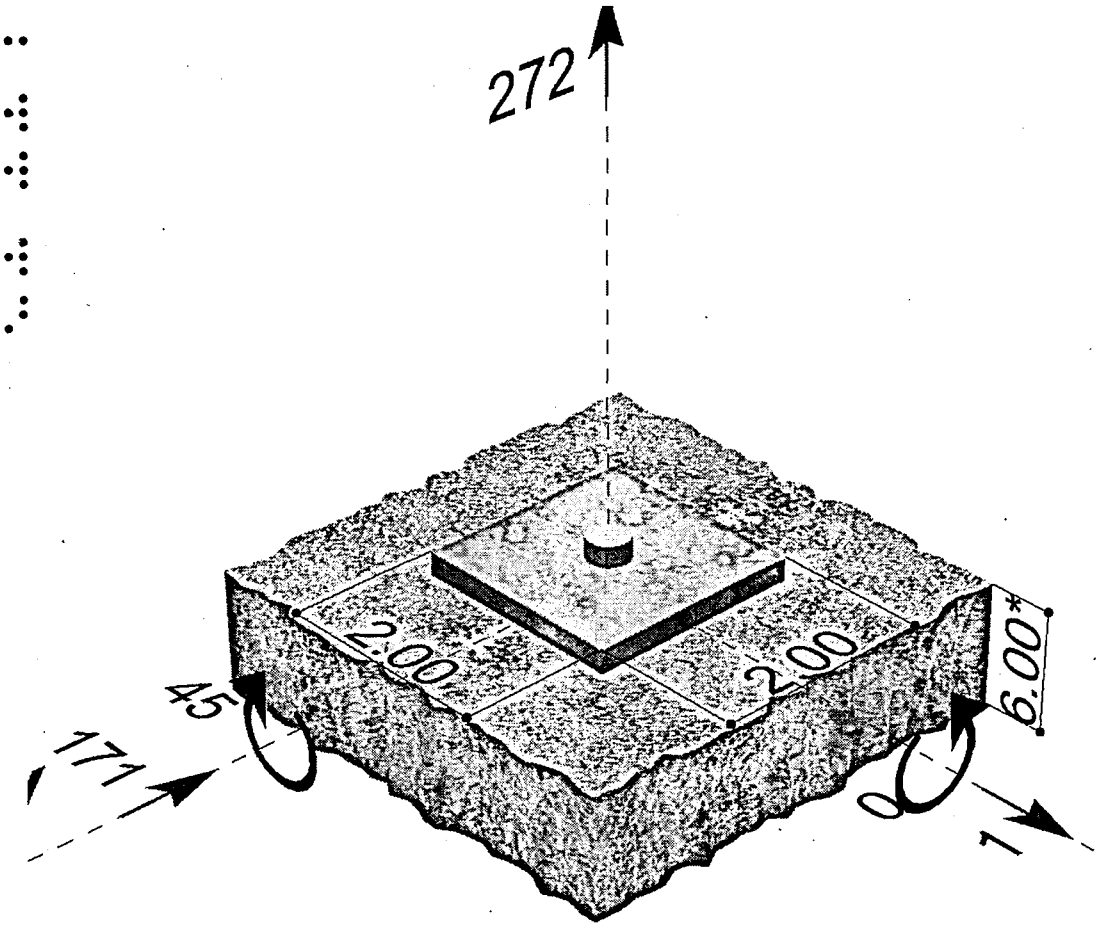
Subject/Topic:

Description:

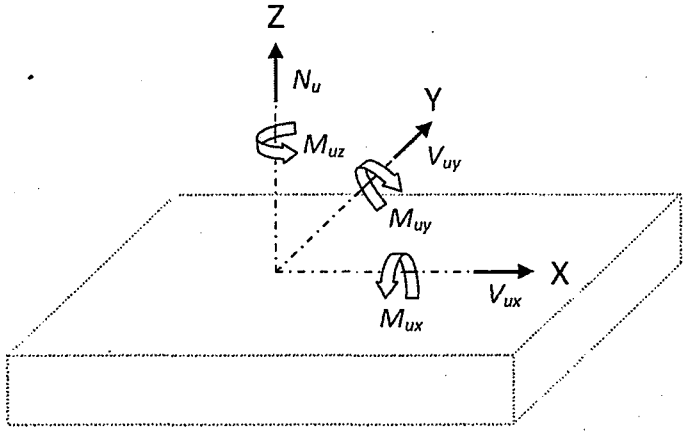
Notes/Remarks:

PDA Powers Design Assist	Company name:	
	Project:	Date: 8/04/2017
Version: 2.4.6290.27783	Project number:	Page: 2/5

GEOMETRY:



LOAD ACTIONS: [lb], [ft-lb]



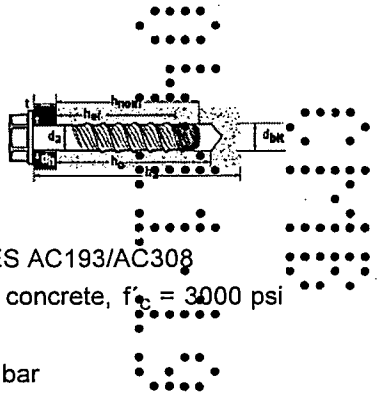
Design loads / actions	
N_u	272
V_{ux}	1
V_{uy}	171
M_{ux}	0
M_{uy}	45
M_{uz}	-

Eccentric profile

e_x = 0.00 inch; e_y = 0.00 inch

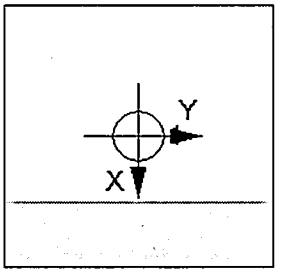
PDA Powers Design Assist	Company name:	
	Project:	Date: 8/04/2017
Version: 2.4.6290.27783	Project number:	Page: 3/5

SUMMARY:



Selected anchor:	Wedge-Bolt+ - 3/8" Ø; hnom 2-1/8" (54mm), Grade 2	
Effective embedment:	h_{ef} = 1.425 inch	
Approval:	ICC-ES ESR-2526	
Basic principles of design:	Design method:	ACI 318-08 (Appendix D) & ICC-ES AC193/AC308
	Concrete:	Normal weight concrete, cracked concrete, f'_c = 3000 psi
	Load combinations:	from Section 9.2
	Reinforcement:	none edge reinforcement or < #4 bar
		Tension: Condition B | Shear: Condition A
	Stand-off:	not existent
	Seismic loads:	no

Resulting anchor forces / load distribution



Anchor No.	Tension load	Shear load
#1	929 lb	171 lb
Maximum	929 lb	171 lb

Max. concrete compression strain:	0.30 ‰
Max. concrete compression stress:	1305 psi
Resulting tension force:	929 lb
Resulting compression force:	657 lb

Calculations:	Design proof	Demand	Capacity	Status	
	Tension load	929 lb	1030 lb	0.90 ≤ 1.0	
	Shear load	171 lb	1109 lb	0.15 ≤ 1.0	OK
	Interaction	-	-	0.88 ≤ 1.0	

Anchor plate:	Material:	f_{yk} = 36000 psi
	Length x width:	2.00 inch x 2.00 inch
	Actual plate thickness:	0.250 inch
	Calculated plate thickness:	not calculated
Profile:	none selected	

PDA Powers Design Assist	Company name:	
	Project:	Date: 8/04/2017
Version: 2.4.6290.27783	Project number:	Page: 4/5

DESIGN PROOF TENSION LOADING:

Reference

Steel strength:

N_{sa}	= 10300 lb	D.5.1
$\Phi * N_{sa}$	= $\Phi * N_{sa}$ = 0.65 * 10300 lb = 6695 lb	D.5.1.2
N_{ua}	= 929 lb	
Design proof:	$N_{ua} / (\Phi * N_{sa})$ = 929 lb / 6695 lb = 0.14 ≤ 1.00	

Concrete strength:

h_{ef}	= 1.425 inch	
k_c	= 17.0	
N_b	= $k_c * f_c'^{0.5} * h_{ef}^{1.5}$ = 17.00 * 54.77 * 1.701 = 1584 lb	D.5.2.2
A_{Nc0}	= 18.15 inch²	
A_{Nc}	= 18.15 inch²	
$\Psi_{ec,N,x}$	= 1.000	D.5.2.4
$\Psi_{ec,N,y}$	= 1.000	D.5.2.4
$\Psi_{ed,N}$	= 1.000	D.5.2.5
$\Psi_{c,N}$	= 1.00	D.5.2.6
c_{ac}	= 4.00 inch	
$\Psi_{cp,N}$	= 1.000	D.5.2.7
$\Phi * N_{cb}$	= $\Phi * (A_{Nc} / A_{Nc0}) * \Psi_{ec,N,x} * \Psi_{ec,N,y} * \Psi_{ed,N} * \Psi_{c,N} * \Psi_{cp,N} * N_b$	D.5.2.1
	= 0.65 * (18.15 / 18.15) * 1.000 * 1.000 * 1.000 * 1.00 * 1.000 * 1584 lb = 1030 lb	
N_{ua}	= 929 lb	
Design proof:	$N_{ua} / (\Phi * N_{cb})$ = 929 lb / 1030 lb = 0.90 ≤ 1.00	

DESIGN PROOF SHEAR LOADING:

Reference

Steel strength (without lever arm):

V_{sa}	= 4825 lb	D.6.1
$\Phi * V_{sa}$	= $\Phi * V_{sa}$ = 0.60 * 4825 lb = 2895 lb	D.6.1.2
V_{ua}	= 171 lb	
Design proof:	$V_{ua} / (\Phi * V_{sa})$ = 171 lb / 2895 lb = 0.06 ≤ 1.00	

PDA Powers Design Assist	Company name:	
	Project:	Date: 8/04/2017
Version: 2.4.6290.27783	Project number:	Page: 5/5

Pryout strength:

h_{ef}	= 1.425 inch	
k_c	= 17.0	
N_b	= $k_c * f_c'^{0.5} * h_{ef}^{1.5}$ = 17.00 * 54.77 * 1.701 = 1584 lb	D.5.2.2
A_{Nc}	= 18.15 inch²	
A_{Nc0}	= 18.15 inch²	
$\Psi_{ed,N}$	= 1.000	D.5.2.5
$\Psi_{cp,N}$	= 1.000	D.5.2.7
$\Psi_{c,N}$	= 1.000	D.5.2.6
k_{cp}	= 1.0	D.6.3.1
$\Phi * V_{cp}$	= $\Phi * (A_{Nc} / A_{Nc0}) * \Psi_{ed,N} * \Psi_{cp,N} * \Psi_{c,N} * N_b * k_{cp}$	
	= 0.70 * (18.15 / 18.15) * 1.000 * 1.000 * 1.000 * 1584 lb * 1.0 = 1109 lb	
V_{ua}	= 171 lb	
Design proof:	$V_{ua} / (\Phi * V_{cp})$ = 171 lb / 1109 lb = 0.15 ≤ 1.00	

COMBINATION TENSION / SHEAR LOAD:

Interaction:

Design proof: $(N_u / (\Phi * N_n) + V_u / (\Phi * V_n)) / 1.2 = (0.90 + 0.15) / 1.2 = 0.88 \leq 1.0$

Fastening ok!

WARNINGS / REMARKS:

PDA Powers Design Assist	Company name:	
	Project:	Date: 8/04/2017
Version: 2.4.6290.27783	Project number:	Page: 1/6

PROJECT DATA:

Company name:

Project name:

Name of the project engineer:

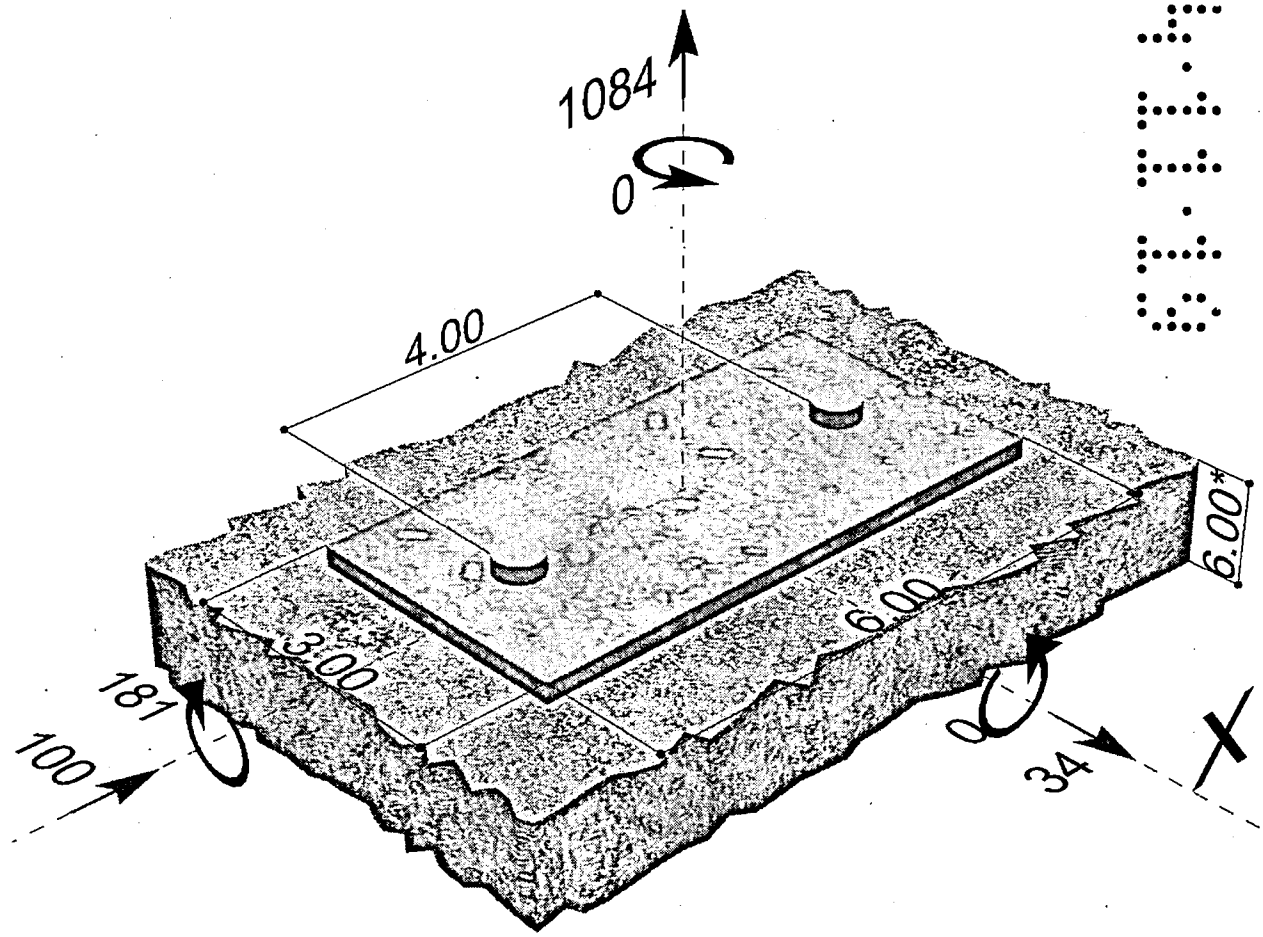
Subject/Topic:

Description:

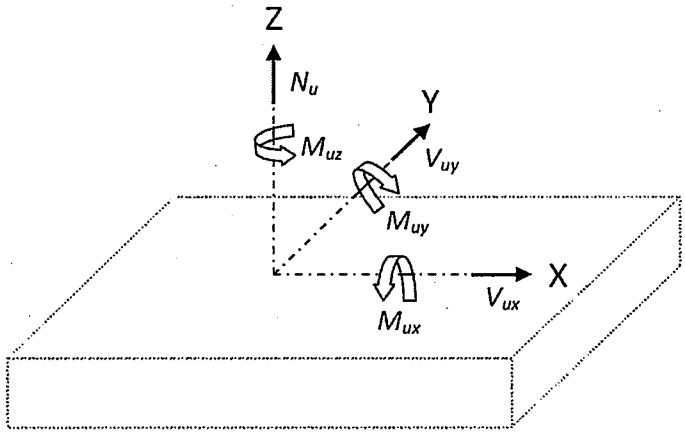
Notes/Remarks:

PDA Powers Design Assist	Company name:	
	Project:	Date: 8/04/2017
Version: 2.4.6290.27783	Project number:	Page: 2/6

GEOMETRY:



LOAD ACTIONS: [lb], [ft-lb]



Design loads / actions	
N_u	1084
V_{ux}	34
V_{uy}	100
M_{ux}	0
M_{uy}	181
M_{uz}	0

Eccentric profile

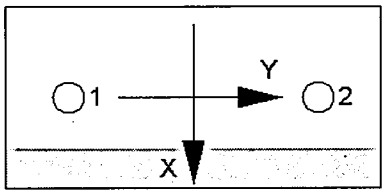
e_x = 0.00 inch; e_y = 0.00 inch

PDA Powers Design Assist	Company name:	
	Project:	Date: 8/04/2017
Version: 2.4.6290.27783	Project number:	Page: 3/6

SUMMARY:

Selected anchor:	Wedge-Bolt+ - 1/2" Ø; hnom 3-1/2" (89mm), Grade 2	
Effective embedment:	h_{ef} = 2.500 inch	
Approval:	ICC-ES ESR-2526	
Basic principles of design:	Design method:	ACI 318-08 (Appendix D) & ICC-ES AC193/AC308
	Concrete:	Normal weight concrete, cracked concrete, f'_c = 3000 psi
	Load combinations:	from Section 9.2
	Reinforcement:	none edge reinforcement or < #4 bar
		Tension: Condition B | Shear: Condition A
	Stand-off:	not existent
	Seismic loads:	no

Resulting anchor forces / load distribution



Anchor No.	Tension load	Shear load
#1	1384 lb	53 lb
#2	1384 lb	53 lb
Maximum	1384 lb	53 lb

Max. concrete compression strain:	0.20 ‰
Max. concrete compression stress:	877 psi
Resulting tension force:	2768 lb
Resulting compression force:	1685 lb

Calculations:	Design proof	Demand	Capacity	Status	
	Tension load	2768 lb	3668 lb	0.75 ≤ 1.0	
	Shear load	106 lb	7901 lb	0.01 ≤ 1.0	OK
	Interaction	-	-	0.64 ≤ 1.0	

Anchor plate:	Material:	f_{yk} = 36000 psi
	Length x width:	6.00 inch x 3.00 inch
	Actual plate thickness:	0.250 inch
	Calculated plate thickness:	not calculated
Profile:	none selected	

PDA Powers Design Assist | Company name: | Date: 8/04/2017
Project:
Version: 2.4.6290.27783 | Project number: | Page: 4/6

DESIGN PROOF TENSION LOADING: Reference

Steel strength:

N_{sa}	= 16800 lb	D.5.1
$\Phi * N_{sa}$	= $\Phi * N_{sa}$ = 0.65 * 16800 lb = 10920 lb	D.5.1.2
N_{ua}	= 1384 lb	
Design proof:	$N_{ua} / (\Phi * N_{sa})$ = 1384 lb / 10920 lb = 0.13 ≤ 1.00	

Concrete strength:

h_{ef}	= 2.500 inch	
k_c	= 17.0	
N_b	= $k_c * f_c'^{0.5} * h_{ef}^{1.5}$ = 17.00 * 54.77 * 3.953 = 3681 lb	D.5.2.2
A_{Nc0}	= 56.25 inch²	
A_{Nc}	= 86.25 inch²	
$\Psi_{ec,N,x}$	= 1.000	D.5.2.4
$\Psi_{ec,N,y}$	= 1.000	D.5.2.4
$\Psi_{ed,N}$	= 1.000	D.5.2.5
$\Psi_{c,N}$	= 1.00	D.5.2.6
c_{ac}	= 4.50 inch	
$\Psi_{cp,N}$	= 1.000	D.5.2.7
$\Phi * N_{cbg}$	= $\Phi * (A_{Nc} / A_{Nc0}) * \Psi_{ec,N,x} * \Psi_{ec,N,y} * \Psi_{ed,N} * \Psi_{c,N} * \Psi_{cp,N} * N_b$	D.5.2.1
	= 0.65 * (86.25 / 56.25) * 1.000 * 1.000 * 1.000 * 1.00 * 1.000 * 3681 lb = 3668 lb	
N_{ua}	= 2768 lb	
Design proof:	$N_{ua} / (\Phi * N_{cbg})$ = 2768 lb / 3668 lb = 0.75 ≤ 1.00	

Pullout / Bond strength:

$N_{p,cr}$	= 2965 lb	D.5.3.2
$\Phi * N_{pn}$	= $\Phi * (f'_c / 2500)^{n} * N_{p,cr}$	
	= 0.65 * (3000 / 2500) ^ 0.50 * 2965 = 2111 lb	
N_{ua}	= 1384 lb	
Design proof:	$N_{ua} / (\Phi * N_{pn})$ = 1384 lb / 2111 lb = 0.66 ≤ 1.00	

PDA Powers Design Assist

Company name:

Project:

Date: 8/04/2017

Version: 2.4.6290.27783

Project number:

Page: 5/6

DESIGN PROOF SHEAR LOADING:

Reference

Steel strength (without lever arm):

V_{sa}	= 7980 lb	D.6.1
$\Phi * V_{sa}$	= $\Phi * V_{sa}$ = 0.60 * 7980 lb = 4788 lb	D.6.1.2
V_{ua}	= 53 lb	
Design proof:	$V_{ua} / (\Phi * V_{sa})$ = 53 lb / 4788 lb = 0.01 ≤ 1.00	

Pryout strength:

h_{ef}	= 2.500 inch	
k_c	= 17.0	
N_b	= $k_c * f_c'^{0.5} * h_{ef}^{1.5}$ = 17.00 * 54.77 * 3.953 = 3681 lb	D.5.2.2
A_{Nc}	= 86.25 inch²	
A_{Nc0}	= 56.25 inch²	
$\Psi_{ec,N,x}$	= 1.000	D.5.2.4
$\Psi_{ec,N,y}$	= 1.000	D.5.2.4
$\Psi_{ed,N}$	= 1.000	D.5.2.5
$\Psi_{cp,N}$	= 1.000	D.5.2.7
$\Psi_{c,N}$	= 1.000	D.5.2.6
k_{cp}	= 2.0	D.6.3.1
$\Phi * V_{cpg}$	= $\Phi * (A_{Nc} / A_{Nc0}) * \Psi_{ec,N,x} * \Psi_{ec,N,y} * \Psi_{ed,N} * \Psi_{cp,N} * \Psi_{c,N} * N_b * k_{cp}$	
	= 0.70 * (86.25 / 56.25) * 1.000 * 1.000 * 1.000 * 1.000 * 1.000 * 3681 lb * 2.0 = 7901 lb	
V_{ua}	= 106 lb	
Design proof:	$V_{ua} / (\Phi * V_{cp})$ = 106 lb / 7901 lb = 0.01 ≤ 1.00	

COMBINATION TENSION / SHEAR LOAD:

Interaction:

Design proof: $(N_u / (\Phi * N_n) + V_u / (\Phi * V_n)) / 1.2$ = (0.75 + 0.01) / 1.2 = 0.64 ≤ 1.0

Fastening ok!

Certificate of Flame Resistance

Issued By:

GLEN RAVEN MILLS INC
1831 NORTH PARK AVENUE

GLEN RAVEN, NC 27217-1100

Registered Fabric or Concern Number

F-73101

Date treated or manufactured:
06/03/2019

This is to certify that the materials described below have been treated with a flame-retardant chemical or are inherently nonflammable.

FOR: Trivantage, LLC ADDRESS: 1831 North Park Ave.

CITY: Glen Raven STATE: NC 27217

Certification is hereby made that: (Check "a" or "b")

☐ (a) The articles described at the bottom of this Certificate have been treated with a flame-retardant chemical approved and registered by the State Fire Marshal and the application of said chemical was done in conformance with the laws of the State of California and the Rules and Regulations of the State Fire Marshal.

Name of chemical used: _____ Chemical Registration #: _____

Method of application: _____

☒ (b) The articles described at the bottom of this Certificate are made from a flame-resistant fabric or material registered and approved by the State Fire Marshal for such use.

Trade Name of flame-resistant fabric or material used: FIRESIST Registration #: F-73101

The Flame-Retardant Process Used Will Not **Be Removed By Washing**

GLEN RAVEN CUSTOM FABRICS
Name of Applicator or Production Superintendent

WENDY MILLER, CUSTOMS COMP. MG
Title

RCNs # _____

CUSTOMER ORDER NO. _____

CUSTOMER INVOICE NO. 2312295

YARDS OR QUANTITY 1.00

DESCRIPTION Memo Sample Firesist #82000-0000 60" Regatta

ITEM NUMBER 888500M

We hereby certify the above to accurately reflect the information contained within a "CERTIFICATE OF FLAME RESISTANCE" issued to Trivantage, LLC from the registrant set forth above. A copy of the original Certificate of Flame Resistance is available upon request to Trivantage, LLC and the registration information set forth above is on record with the California State Fire Marshal.

MAILING ADDRESS

B AND G AWNINGS
13892 SW 139TH CT

MIAMI, FL 33186-5512

CITY OF MIAMI BEACH
Building Department
1700 Convention Ctr Drive, 2nd Floor
Miami Beach, Florida 33139
Inspections: (305) 673-7370 Office: (305) 673-7610

Bldg Cert of Occupancy

Certificate Number: BCO06209

Status: APPROVED

Issued By: BUILGUEC

Site Address: **6985 COLLINS AV MBCH**
Parcel #: 32110020700

Applied: 06/12/2006
Issued: 10/12/2006
Extended:
To Expire:

Tenant: EL REY DEL CH
6985 COLLINS AV
MIAMI BEACH, FL 33141

Property Owner: ELYSEE INVEST
ONE FINANCIAL PL
FT LAUDERDALE FL 33394

Class Code: A

Issued For: Certificate of Occupancy for Converting

Temporary Expiration Date:

Current Use: ASSEMBLY
Previous Use: MERCANTILE

OCCUPANCY INFORMATION

Building Permit #:	B0500470	Zoning Use District:	RM-3
Occupancy Group:	A	Construction Type:	
Maximum Occupant Content		Minimum Number of Exits:	
Zoning Ordinance Number:	89-2665	SS # or Taxpayer ID#:	

This is to certify that the above tenant, whose address is noted above, has filed for premission to use the property located at the address noted avove, and said proposed use or uses being in comformity with the provisions of the zoning ordinance 89-2665 and the Building Code of the City of Miami Beach, a Certificate of Occupancy is hereby granted to use said building for the purpose described below, subject to any special condition(s) detailed in this document.

NOTE: *Any unauthorized additions, alterations or change in use of this property will void this Certificate of Occupancy.*

2-23.07

Building Official Signature and Date
THOMAS VELAZQUEZ

This Certificate of Occupancy is valid only if there is an APPROVED Status and a Building Official Signature.

[CERTOCCP]

CITY OF MIAMI BEACH
BUILDING DEPARTMENT
1700 CONVENTION CENTER DR
2ND FLOOR - CITY HALL
MIAMI BEACH, FLORIDA 33139
(305) 673-7610

COMPLETE DESCRIPTION

DATE: 02-23-2007

PERMIT NUMBER: **BCO06209**

STATUS: APPROVED

JOBSITE ADDRESS: **6985 COLLINS AV MBCH**

CONTRACTOR: CONSTRUCTION DEPOT, INC

OWNER: ELYSEE INVESTMENT ENTERPRISES

DESCRIPTION

Certificate of Occupancy for Converting Commercial Units 6987 and 6981 to one Unit: 6987 increasing # of seats./ Change of use from Restaurant/Mercantile to Assembly.

[BDESCDOC]

LASON

PERMIT #

BHS040 3592

27

MILTON CUBAS, P.E., INC.
CONSULTING ENGINEER

Milton Cubas

1302 N.E. 125 ST. • North Miami, Florida 33161
Phone: 305-891-4174 • Fax: 305-891-4175
E-mail: mcubas99@worldnet.att.net

Project: ALUMINUM STRUCTURE SCREEN WITH PERFORATED SHEETS — Design:
Subject: LAZA IRON WORKS — Sheet No. 1/3 REV — Inspection:
Address: CAPITAL PENCO CLUB 6000 COLLINS AVE MIAMI BEACH, FL — of sheets — Investigation:
Job No: — Date: 12-08-04 — Design by: JH — Reports:

CHECK STRUCTURE TUBING FOR BENDING

(SIDE VIEW)

THIS TUBE AGAINST STRESS FOR BENDING BECAUSE IT HAS STRUT IN ALL LENGTHS.

TOP VIEW

ALUMINUM PERFORATED SHEET

ALUMINUM TUBE

EXISTING CONCRETE WALL

CHECK THE NEXT PAGE TO SEE RESULT

MILTON CUBAS, P.E., INC.
CONSULTING ENGINEER

Milton Cubas

1302 N.E. 125 ST. • North Miami, Florida 33161
Phone: 305-891-4174 • Fax: 305-891-4175
E-mail: mcubas99@worldnet.att.net

Project: ALUMINUM STRUCTURE SCREEN WITH PERFORATED SHEETS — Design:
Subject: LAZA IRON WORKS — Sheet No. 2/3 REV — Inspection:
Address: CRYSTAL BEACH CLUB 6000 COLLINS AVE MIAMI BEACH, FL — of sheets — Investigation:
Job No: — Date: 12-08-04 — Design by: JM — Reports:

ALUMINUM HORIZONTAL MEMBER DESIGN — ALUMINUM ALLOY 6063-T5

WIND PRESSURE = 87.7 PSF

$W_2 = 87.7\ \#/ft \times \frac{22''}{12} = 161.4$

$W_3 = 1175.4\ \#/ft$

$M = \frac{W L^2}{8} = \frac{1179.4 \times 3.67^2}{8} \times 12$

$M = 3237.23\ \#\text{-in}$

$F_{bx} = 9,500$ psi

$S_x = \frac{3237.23}{9,500} \quad S = 0.37\ in^3 < 3x$ OK

USE ALUMINUM ALLOY 6063-T5

(2) HSS 1 1/2" x 1 1/2" x 1/8" (Sx = 0.57 in³)

WITH REDUCE SECTION

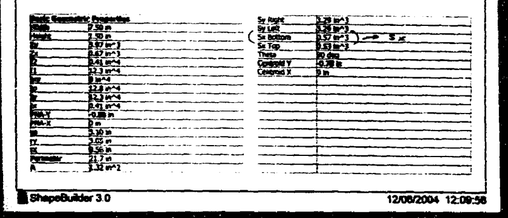
CHECK THE NEXT PAGE TO SEE SECTION

Milton Cubas, PE
Milton Cubas, P.E., Inc

Summary Report

(3/3 REV)

STRUCTURAL TUBING ALUMINUM ALLOY 6063_T5
(2) HSS 1 1/2" x 1 1/2" X 1/8" (Sx = 0.57 in^3)



Basic Geometric Properties	
Area	2.38 in²
Height	1.50 in
Ix	1.67 in^4
Sx	0.57 in^3
Rx	0.84 in^4
Iy	3.3 in^4
Sy	1.1 in^3
Ry	1.18 in^4
Iz	4.97 in^4
Rz	1.44 in^4
Ixy	-0.88 in^4
Xbar	0 in
Ybar	3.00 in
Qx	3.57 in^3
Qy	1.56 in^3
Perimeter	21.7 in
A	3.32 in^2

Sx Right	1.67 in^3
Sx Left	1.67 in^3
Sx Bottom	0.57 in^3 → Sx
Sx Top	0.83 in^3
Theta	90 deg
Centroid Y	-0.38 in
Centroid X	0 in

ShapeBuilder 3.0 — 12/08/2004 12:09:58

MILTON CUBAS, P.E., INC.
CONSULTING ENGINEER

Milton Cubas

1302 N.E. 125 ST. • North. Miami, Florida 33161
Phone: 305-891-4174 • Fax: 305-891-4175
E-mail: mcubas99@worldnet.att.net

Project: ALUMINUM STRUCTURE SCREEN WITH PERFORATED SHEETS
Subject: LAZA IRON WORKS
Address: CRYSTAL BEACH CLUB 6985 COLLINS AVE. MIAMI BEACH, FL.
Job No:
Date: 10-08-04
Sheet No. 1 of 5 REV
Design by: JM
Design:
Inspector:
Investigator:
Reports:

ANCHOR TO CONCRETE DESIGN

AB

ANCHOR

6"

AB

AB

AB

$A = \frac{48 \times 40}{144} = 13.3$ SF

MILTON CUBAS, P.E., INC.
1302 NE 125 ST. NORTH MIAMI, FL 33161 (305)891-4174 FAX 891-4175
Copyright 2000 by Tondelli Engineering, P.A. Tampa, Florida

CUSTOMER : LAZA IRON WORKS
JOB NUMBER : 6985 COLLINS AVENUE.
DESCRIPTION : ANCHOR TO CONCRETE WALL (A = 13.33 SQF)

DATE: 10/8/2004 2/5 REV

*** DESIGN WIND LOADS - ASCE 7-98 ***
*** COMPONENTS AND CLADDING ***

MIND VELOCITY = 146 MPH
EXPOSURE CATEGORY = C
BUILDING CATEGORY = 2
IMPORTANCE FACTOR = 1.00
Kzt = 1.00

ROOF SLOPE = 0.02 : 12 (1.10 DEG)
TRIBUTARY AREA = 13.3 FT2
MEAN ROOF HEIGHT = 55.0 FT Kh = 1.116 qh = 60.9 PSF
DISTANCE, Z = 55.0 FT Kz = 1.116 qz = 60.9 PSF

MIND LOADS

	WALL AREA 4	5
GCp (+)	0.880	0.880
GCp (-)	-0.970	-1.220
PRESSURE (psf)	53.6	53.6
SUCTION (psf)	-59.1	-74.3

P = qh[(GCp) - (GCpi)]
GCpi = 0.00

3 4 5 3 4 b CORNER DISTANCE, a = 10.2 FT
BUILDING WIDTH = 102.0 FT

AREA = 40"

Project: ALUMINUM STRUCTURE SCREEN WITH PERFORATED SHEETS
Subject: LAZA IRON WORKS
Address: CRYSTAL BEACH CLUB 6985 COLLINS AVE.
Job No:
Date: 10-08-04
Sheet No. 2 of 5 REV
Design by: JM
Design:
Inspector:
Investigator:
Reports:

DL = 28 psf
WL = 74.3 psf

AREA = 13.33 sqf (19" x 40")

SHEAR(y) = 28 x 13.33 = 74.3 x 4 x 0.5
DL VERTICAL WIND AT HEMLEES

SHEAR(y) = 482 #

SHEAR(x) = 74.3 x 40" x 0.5 / 12 = 124 #

TENSION (+z) = 74.3 x 13.33

TENSION (-z) = 991 #

USE: (2) KWIK BOLT II - 304 STAINLESS STEEL BY HILTI
1/2" Ø x 2 1/2" MIN emb.

HILTI

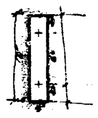
Customer No: —
HNI AG
FL-Miami Scheen
HAP v5.3b

Anchor fastening design: Anchor fastening design | Page: 1 of 2
Location: LAZA IRON WORKS | Quotation: —
6712 NE 4th AVENUE | Project: ALUMINUM STRUCTURE SCREEN
MIAMI, FL,33138 | List No.: —
CRYSTAL BEACH CLUB | Date: 2004-10-06
Phone: — | 6985 COLLINS AVE | Project name: —
Fax: — | Author: JM | MIAMI BEACH, FL,33141

Anchor fastening design for Kwik Bolt II 304-1/2 x 3 3/4 (2 1/4)

As per HNI USA method

Positioning



Anchoring plate:
lx=2.00 in ly=10.00 in
t1=6.00 in

c1 → Anchor
Anchor in slotted hole

Loads

Tensile Load:
N=991 Lbf

Shear Load:
Vx=124 Lbf Vy=-482 Lbf

Concrete

Compressive strength: 2000 PSI

USE (2) KWIK BOLT II-304 Stainless Steel by HILTI
1/2" ϕ x 2 1/2" min emb

5/15 KW

HILTI

Customer No: —
HNI AG
FL-Miami Scheen
HAP v5.3b

Anchor fastening design: Anchor fastening design | Page: 2 of 2
Location: LAZA IRON WORKS | Quotation: —
6712 NE 4th AVENUE | Project: ALUMINUM STRUCTURE SCREEN
MIAMI, FL,33138 | List No.: —
CRYSTAL BEACH CLUB | Date: 2004-10-06
Phone: — | 6985 COLLINS AVE | Project name: —
Fax: — | Author: JM | MIAMI BEACH, FL,33141

Results for Kwik Bolt II 304-1/2 x 3 3/4 (2 1/4)

Anchor	1	2
N [Lbf]	-495	496
V_y [Lbf]	62	62
V_x [Lbf]	-241	-241
V_{eq} [Lbf]	249	249
R_{eq} [Lbf]	564	564
c_1	27	27
f_{ec}	1.00	1.00
f_{ec}	1.00	1.00
f_{ec}	1.00	1.00
f_{ec}	1.00	1.00
N_{eq} [Lbf]	990	990
V_{eq} [Lbf]	1810	1810
f_N	0.50	0.50
f_V	0.14	0.14
f_{eq}	0.44	0.44
h_{ef} [in]	2 1/4	2 1/4
Length [in]	3 3/4	3 3/4
Thread [in]	2 1/4	2 1/4

5/15 KW

FAX PAGE 1

MILTON CUBAS, P.E., INC.
1303 NE 125 ST. NORTH MIAMI, FL. 33161 (305)891-4176 FAX 891-4175
Copyright 2000 by Tondelli Engineering, P.A. Tampa, Florida

CUSTOMER : LAZA IRON WORKS
JOB NUMBER : 6985 COLLINS AVENUE. DATE : 6/18/2004
DESCRIPTION : ALUMINUM STRUCTURE SCREEN

*** DESIGN WIND LOADS - ASCE 7-98 ***
*** COMPONENTS AND CLADDING ***

1/15

WIND VELOCITY = 146 MPH
EXPOSURE CATEGORY = C
BUILDING CATEGORY = 2
IMPORTANCE FACTOR = 1.00
Kzt = 1.00

ROOF SLOPE = 0.02 ; 12 (1.10 DEG)
TRIBUTARY AREA = 6.4 FT2
MEAN ROOF HEIGHT = 55.0 FT Kh = 1.116 qh = 60.9 PSF
DISTANCE, z = 55.0 FT Kz = 1.116 qz = 60.9 PSF

WIND LOADS	WALL AREA	
	4	5
GCp (+)	0.900	0.900
GCp (-)	[redacted]	-1.260
PRESSURE (psf)	-65.8	[redacted]
SUCTION (psf)	-72.2	[redacted]

4 4 5

APPROVED FOR PERMIT BY THE FOLLOWING:
BUILDING:
ZONING:
DRRTPE:
CONCURRENCY:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
PUBLIC WORKS:
STRUCTURAL:
ACCESS:
ELEV.

CITY OF MIAMI BEACH

JOB CO

P = QK(GCp) - (GCpi):
GCpi = ± 0.18

BUILDING HEIGHT = 102.0 FT
CORNER DISTANCE, a = 20.4 FT

8'-3" FACE

27

MILTON CUBAS, P.E., INC.
CONSULTING ENGINEER
Milton Cubas
1302 N.E. 125 ST. • North Miami, Florida 33161
Phone: 305-891-4174 • Fax: 305-891-4175
E-mail: mcubas99@worldnet.att.net

Project: ALUMINUM STRUCTURE SCRBBU CRISTAL BEACH CLUB	Design:
Owner: LARA IRON WORKS	Sheet No. 2/15 Inspection:
Address: 6980 COLLINS AVE MIAMI BEACH FL, 33141	Investigation:
Job No.	Date: 06-18-04 Design by: JM Reports:

ALUMINUM SHEET METAL 6063-T6

ALLOWABLE = 8.7 KSI

W/T = 8.7 KSI x 1.5 =

M = W x L²/8

M = 8.7 x 1.00² / 8 = 1.09 K-in

S = M/Fb = 1.09 / 22.05 = 0.049 in³

JOB COPY

CITY OF MIAMI BEACH
APPROVED AS NOTED
THE FOLLOWING:
BUILDING:
ZONING:
DRB/HPB:
CONCURRENCY
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
PUBLIC WORKS:

Provide for square hole allowance

MILTON CUBAS, P.E., INC.
CONSULTING ENGINEER
Milton Cubas
1302 N.E. 125 ST. • North Miami, Florida 33161
Phone: 305-891-4174 • Fax: 305-891-4175
E-mail: mcubas99@worldnet.att.net

Project: ALUMINUM STRUCTURE SCRBBU CRISTAL BEACH CLUB	Design:
Owner: LARA IRON WORKS	Sheet No. 3/15 Inspection:
Address: 6980 COLLINS AVE MIAMI BEACH, FL	Investigation:
Job No.	Date: 06-18-04 Design by: JM Reports:

USE FOR PERFORATED METAL

ALUMINUM ALLOY 6063-T6

PERFORATED SHEET @ 3/16" (5.56 KSI)

DIA. 11/16 2½ C/C

0.716 AREA PER OPNG

JOB COPY

CITY OF MIAMI BEACH
APPROVED AS NOTED
THE FOLLOWING:
BUILDING:
ZONING:
DRB/HPB:
CONCURRENCY
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
PUBLIC WORKS:

Check for shear

Material Descriptions

Page 4 of 8

where adherence is a prime factor. Type 2 is produced with one gram square foot coating and is used for applications where atmospheric corrosion resistance is the prime factor.

4/15

Electrolytic Tin Coated - Steel coated with tin by electrolytic deposition. The coating is usually applied to a base metal having a d surface texture.

To Go Back

Aluminum

Aluminum combines a unique set of properties (lightweight and resistant to It is also nontoxic which makes it an excellent material in cooking utensils. Most aluminum types are an alloy of aluminum, which includes a small qua silicon, iron, copper, magnesium, or nickel. These alloys differ in hardness, strength, and other properties.

Non-Heat Treatable (Common) Alloys

1100-0 - Commercially pure aluminum. Excellent corrosion resistan workability and weldability; high thermal conductivity. Uses includ deep drawing, spinning, sheet metal work, decorative applications, s ducts, etc.

3003-0-H14 - The most widely used general purpose alloy. 3003 is stronger than 1100 but still readily formable. Excellent resistance to chemicals and weathering.

5005-H33 or H34 - Excellent workability, weldability, and corrosio resistance. 5005 is typically specified for applications where anodiz required. Anodized coating is clear and lighter than 3003.

5052-H34 - A versatile alloy for applications requiring greater stren Readily formed, very good corrosion resistance in marine applicatio

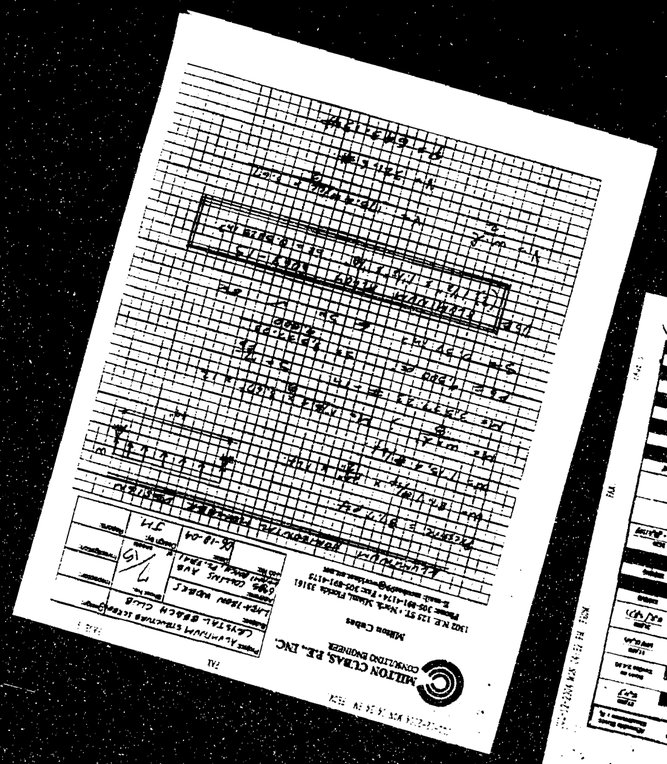
Heat Treatable (Strong) Alloys

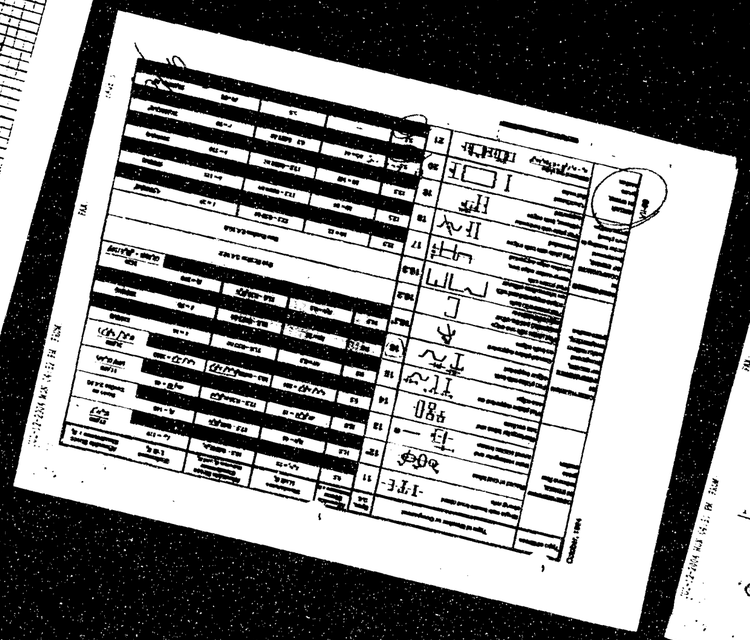
6061-T4 or T6 - High strength alloy provides good formability, weldability, and corrosion resistance. May be difficult to perform a bend.

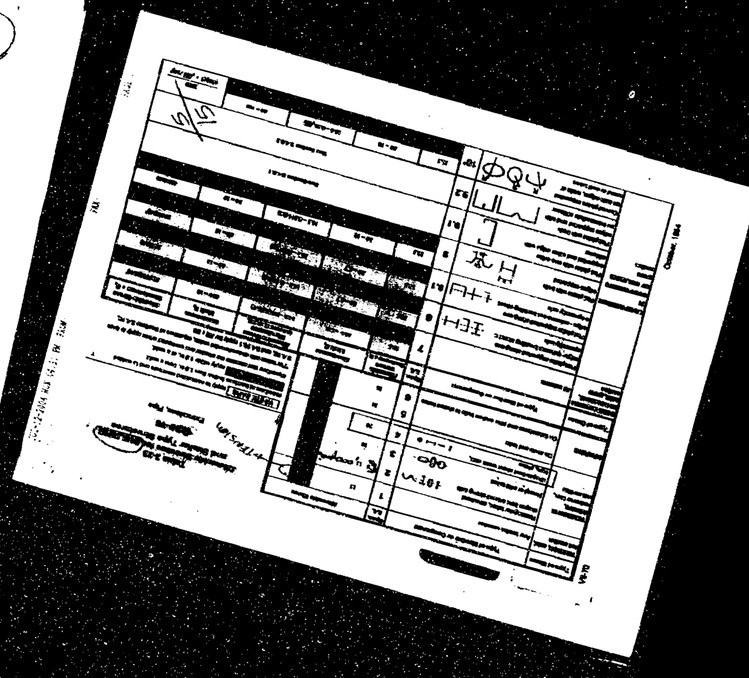
6063-T5 - Highly corrosion resistant with good formability. Softer t 6061-T6 and easier to bend. Finish is pleasing and is the most suitat anodizing.

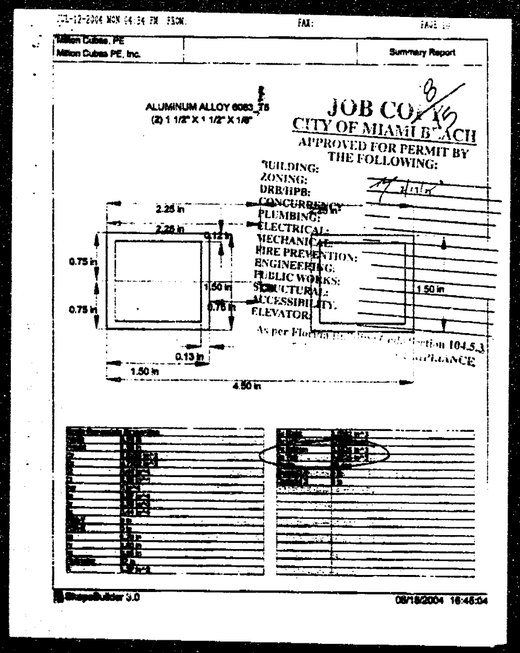
Aluminum Under Screen

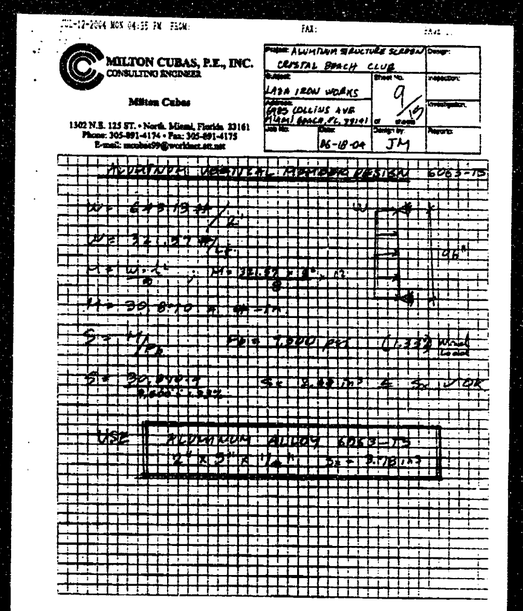
27

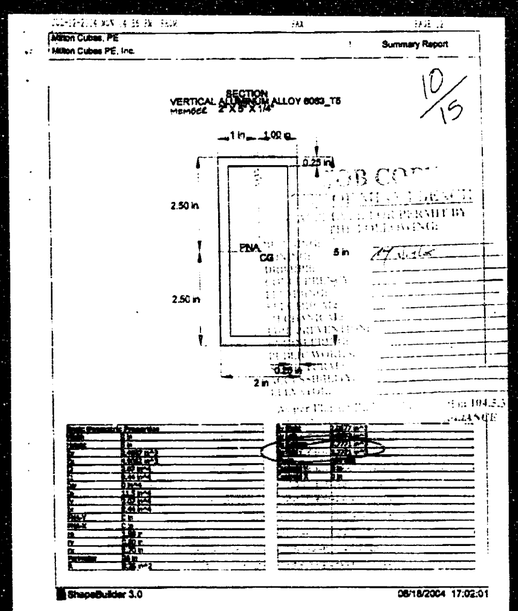

MILTON CRAS, P.E., INC.
CONSULTING ENGINEERS
Milton Cras
1302 N.E. 123 ST. • Nova Alamo, Florida 33161
Phone: 305-891-4174 • Fax: 305-891-4173
e-mail: miltoncras@nova.edu






Milton Cubas, PE
Milton Cubas PE, Inc.
Summary Report
ALUMINUM ALLOY 6063_T6
(2) 1 1/2" X 1 1/2" X 1/8"
JOB COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING:
ZONING:
DRB/HPB:
CONCURRENCY:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
PUBLIC WORKS:
STRUCTURAL:
ACCESSIBILITY:
ELEVATOR:
As per Florida
Section 104.5.3
COMPLIANCE
2.25 in
0.75 in
1.50 in
0.13 in
4.50 in
ShapeBuilder 3.0
08/18/2004 16:48:04


MILTON CUBAS, P.E., INC.
CONSULTING ENGINEER
Milton Cubas
1302 N.E. 125 ST. • North Miami, Florida 33161
Phone: 305-891-4174 • Fax: 305-891-4175
E-mail: mcubas99@worldnet.att.net
Project: ALUMINUM STRUCTURE SCREEN
CRISTAL BEACH CLUB
Subject: LADA IRON WORKS
Address: 6925 COLLINS AVE MIAMI BEACH FL, 33141
Job No.: 04-18-04
Design by: JM
Design
Inspection
Investigation
Reports
9/15
ALUMINUM VERTICAL MEMBERS DESIGN 6063-T5
W= 64.7 lb/ft
We= 14.27 lb/ft
Pdesign 1,000 psi
USE ALUMINUM ALLOY 6063-T5


Milton Cubas, PE
Milton Cubas PE, Inc.
Summary Report
10/15
SECTION
VERTICAL ALUMINUM ALLOY 6063_T6
MEMBER 2 X 2 X 1/4
1 in
1.00 in
0.25 in
2.50 in
PNA
CG
5 in
2 in
0.50 in
JOB COPY
APPROVED FOR PERMIT BY
THE FOLLOWING:
Section 104.5.3
COMPLIANCE
ShapeBuilder 3.0
08/18/2004 17:02:01

27

MILTON CUBAS, P.E., INC.
CONSULTING ENGINEER
Milton Cubas
1302 N.E. 125 ST. • North Miami, Florida 33161
Phone: 305-891-4174 • Fax: 305-891-4175
E-mail: miltoncubas@worldnet.att.net

Project: ALUMINUM STRUCTURE SCREEN/Design
Subject: CRYSTAL BEACH CLUB
LADA IRON WORKS
6955 COLLINS AVE
MIAMI BEACH, FLORIDA
Job No.: Date: 06-18-04
Sheet No.: 11 / 15
Designed by: JM
Checked by:
Approved by:

ANCHOR CONNECTION AT CONCRETE

Wind = 120 MPH
Exp C
Enclosed Building
Shear (x) = 972 lbs
Shear (y) = 972 lbs
Moment (x) = 810 lbs x 3.5' = 2835 ft-lbs
Moment (y) = 810 lbs x 3.5' = 2835 ft-lbs
Use 1/2" ø Hilti Kwik Bolt II SS 304 Stainless Steel Anchor
Embedment = 3 1/4" min.

FAX PAGE 15

Hilti

Customer No.: LADA IRON WORKS
6955 COLLINS AVE
MIAMI BEACH, FLORIDA
Phone:
Fax:

Anchor fastening design
Location:

Page: 1 / 3
Customer:
Project: ALUMINUM STRUCTURE
Lot No.:
Date: 2004-06-18
Project name: JM

Anchor fastening design for Kwik Bolt II 304-1/2 x 3 3/4 (1 1/4)

As per Hilti USA method

Positioning

Anchoring plate:
Single anchor
bx=2.00 in. by=20.00 in.

— Anchor

Loads

Tensile Load:
N=708 Lbf

Shear Load:
Vx=98 Lbf Vy=-376 Lbf

Moments:
Mx=2252 in-lb My=-328 in-lb

Concrete

Compressive strength: 3000 Psi

FAX PAGE 15

Hilti

Customer No.: LADA IRON WORKS
6955 COLLINS AVE
MIAMI BEACH, FLORIDA
Phone:
Fax:

Anchor fastening design
Location:

Page: 2 / 3
Customer:
Project: ALUMINUM STRUCTL
Lot No.:
Date: 2004-06-18
Project name: JM

Results for Kwik Bolt II 304-1/2 x 3 3/4 (1 1/4)

Anchor		1
N	[Lbf]	1277
V_x	[Lbf]	98
V_y	[Lbf]	-376
V_{eq}	[Lbf]	388
Rxs	[Lbf]	1334
n		17
f_{Nn}		1.00
f_{Nsb}		1.00
f_{Nc}		1.00
f_{Vc}		1.00
f_{Vsb}	[Lbf]	1335
f_{Vcp}	[Lbf]	1999
f_{Nn}		0.96
f_{Vn}		0.19
f_{uv}		0.89
f_{uv}	[in]	2.344
Length	[in]	3.344
Thread	[in]	1.14

27

MILTON CUBAS, P.E., INC.
CONSULTING ENGINEER

Milton Cubas

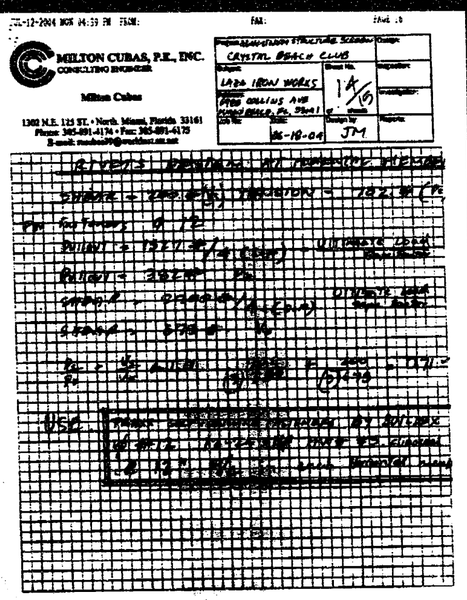
1302 N.E. 123 ST. • North Miami, Florida 33161
Phone: 305-891-4174 • Fax: 305-891-4175
E-mail: mcubas39@msn.com

CRYSTAL BEACH CLUB

LAZA IRON WORKS

Sheet No. 14/16

06-18-04 JM



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CONSULTING ENGINEER

Milton Cubas

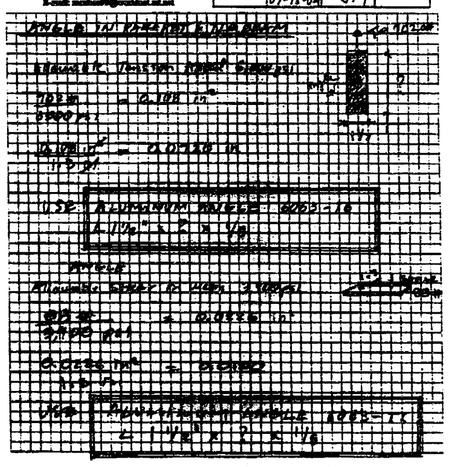
1302 N.E. 123 ST. • North Miami, Florida 33161
Phone: 305-891-4174 • Fax: 305-891-4175
E-mail: mcubas39@msn.com

CRYSTAL BEACH CLUB

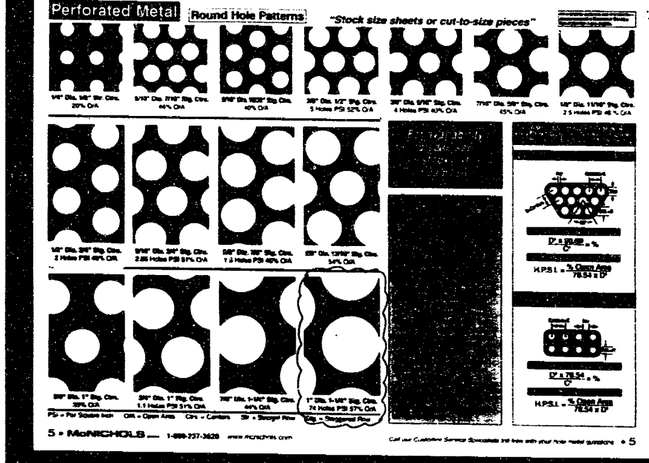
LAZA IRON WORKS

Sheet No. 15/16

07-13-04 JM



Perforated Metal | Round Hole Patterns | "Stock size sheets or cut-to-size pieces"



5 • McNICHOLS — 1-800-237-3620 www.mcnichols.com

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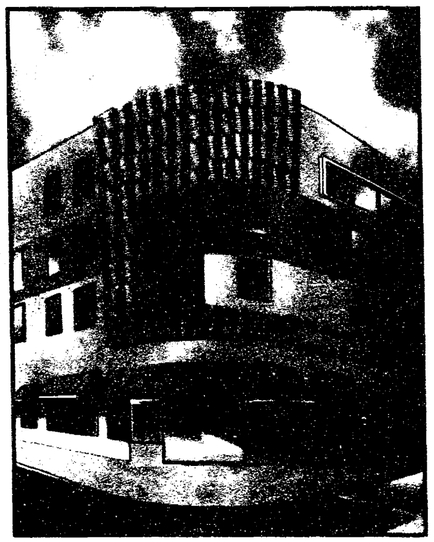
Shop Drawings for Aluminum Structure at Crystal Beach Club



Project:

Crystal Beach Club

6985 Collins Avenue
Miami Beach, FL 33141

General Contractor: Latimer Construction
Sub-Contractor: LAZA Iron Works, Inc.

July 08, 2004

Aluminum Structure Screen with Perforated Sheets

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT &
THE FOLLOWING:

BUILDING:
ZONING:
DRB/HPB:
CONCURRENCY:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PROTECTION
ENGINEERING
PUBLIC WORKS
STRUCTURAL
ACCESSIBILITY
ELEVATOR

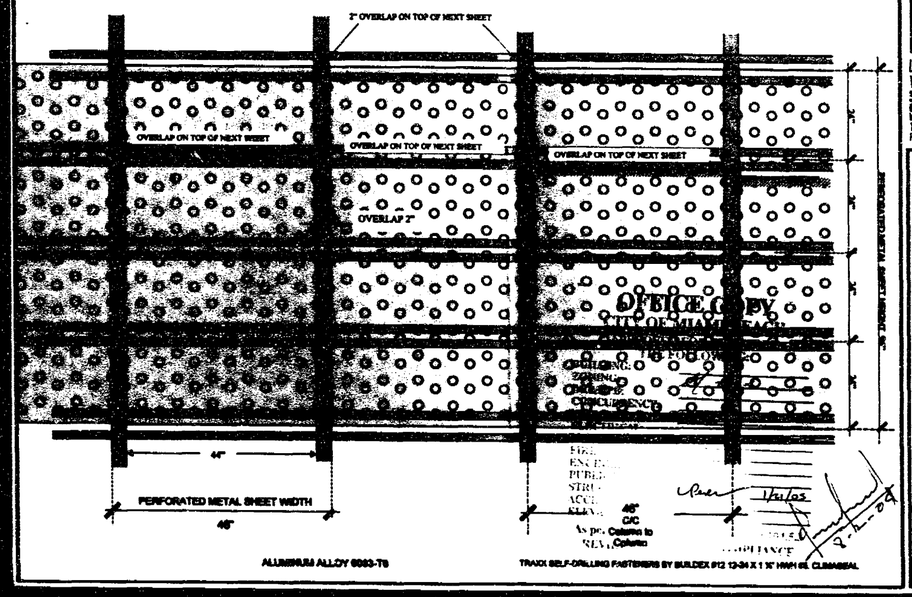
LAZA IRON WORKS, INC.
STEEL FABRICATORS
6712 N.E. 4th AVE.
MIAMI, FLORIDA 33
TEL. (305)-754-8
FAX. (305)-754-8

Shop Drawings for Aluma. Structure
Crystal Beach Club / LATIMER CONST

D1

NOT TO SCA

Shop Drawings for Aluminum Structure at Crystal Beach Club



OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT &
THE FOLLOWING:

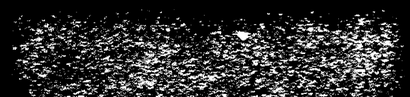
BUILDING:
ZONING:
DRB/HPB:
CONCURRENCY:
FIRE:
ENGINEERING:
PUBLIC WORKS:
STRUCTURAL:
ACCESSIBILITY:
ELEVATOR:

LAZA IRON WORKS, INC.
STEEL FABRICATORS
6712 N.E. 4th AVE.
MIAMI, FLORIDA 33
TEL. (305)-754-8
FAX. (305)-754-8

Shop Drawings for Aluma. Structure
Crystal Beach Club / LATIMER CONST

D2

NOT TO SCA



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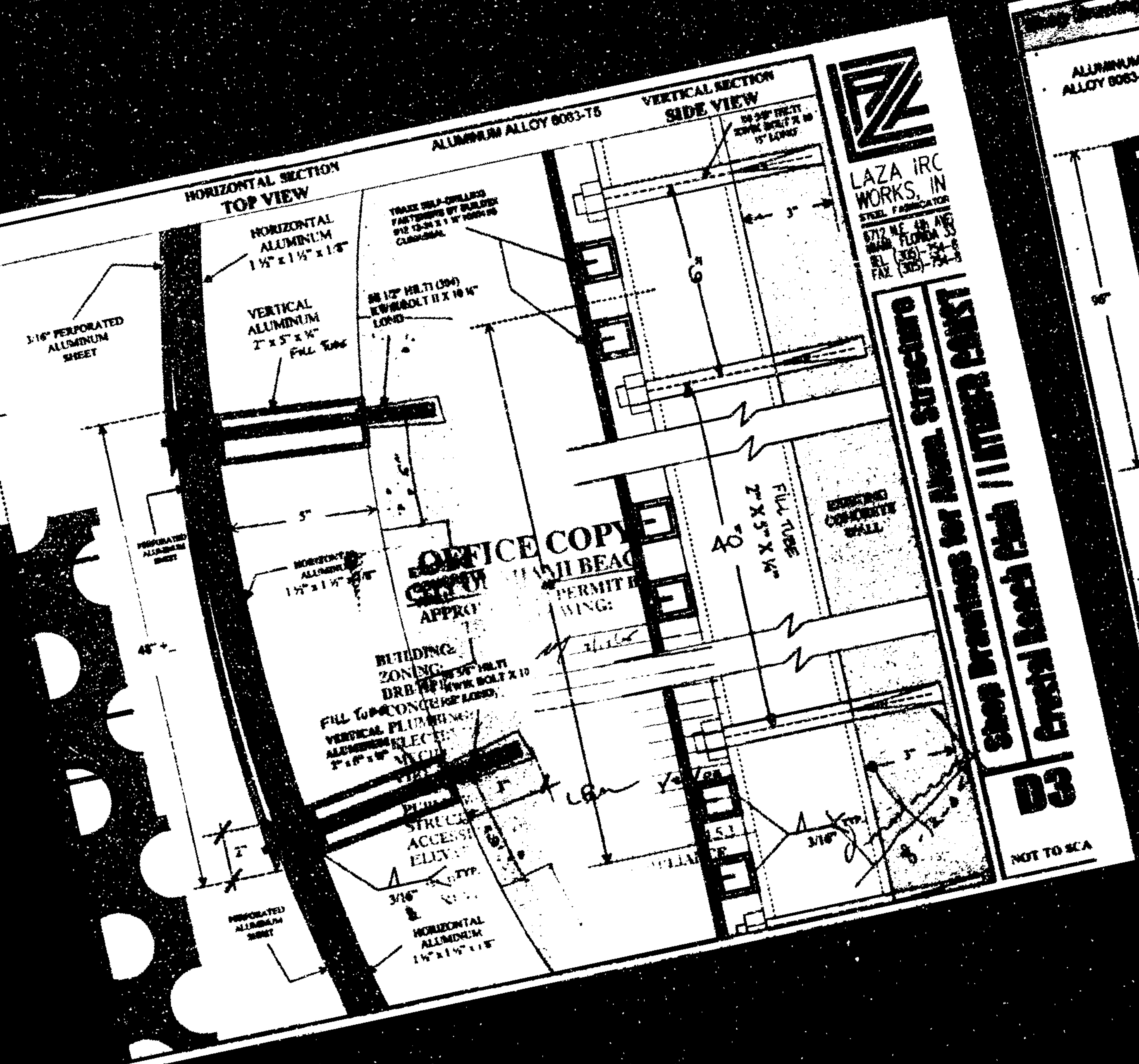
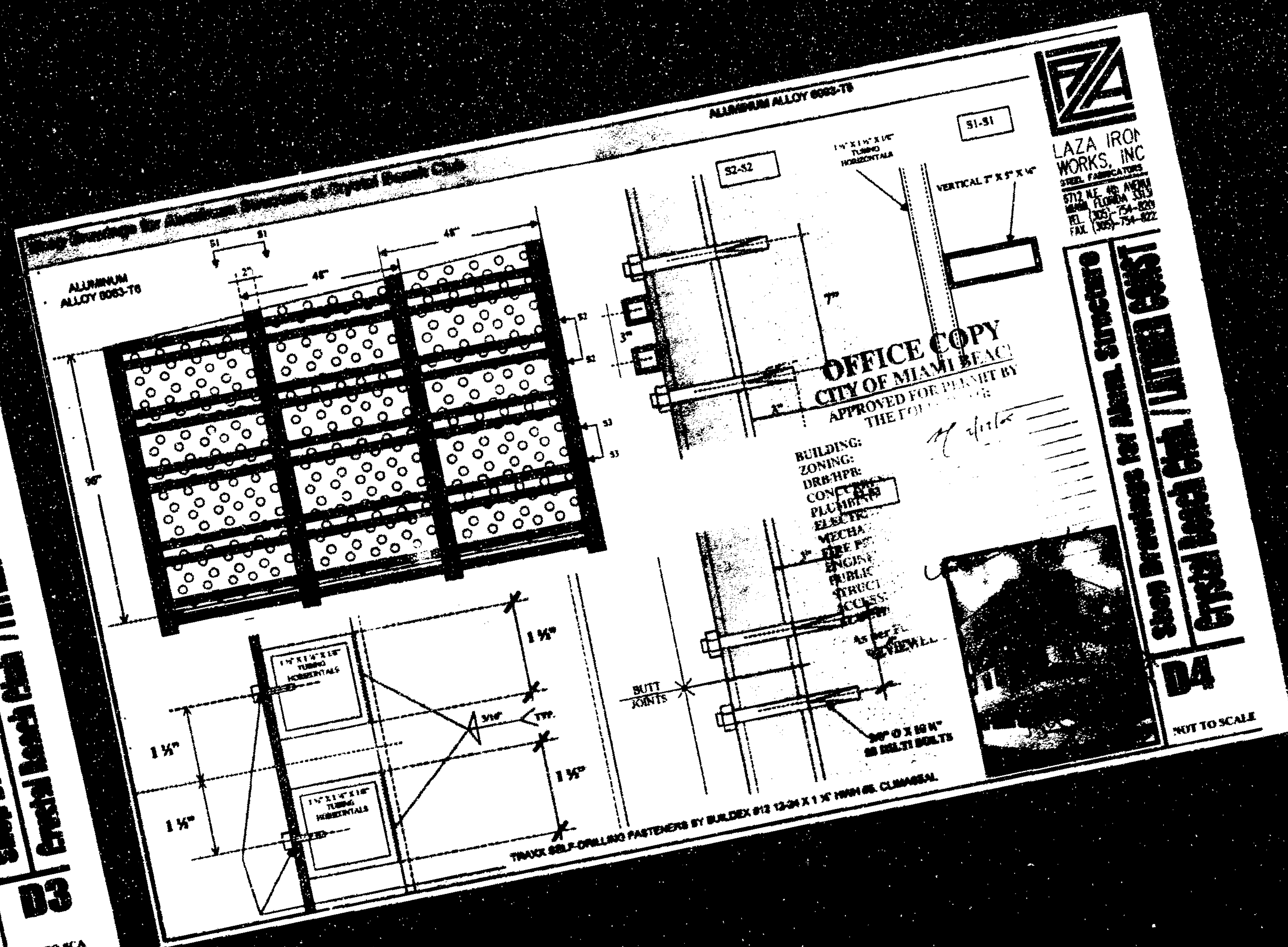
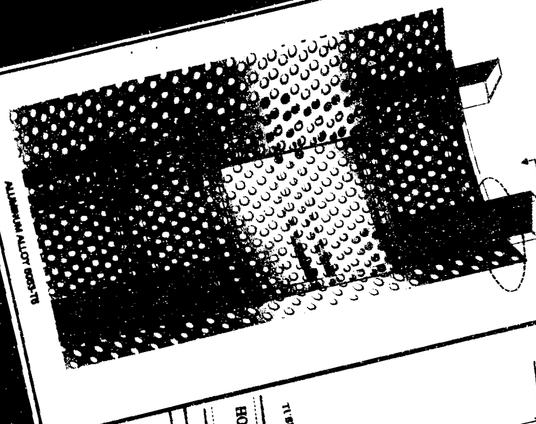
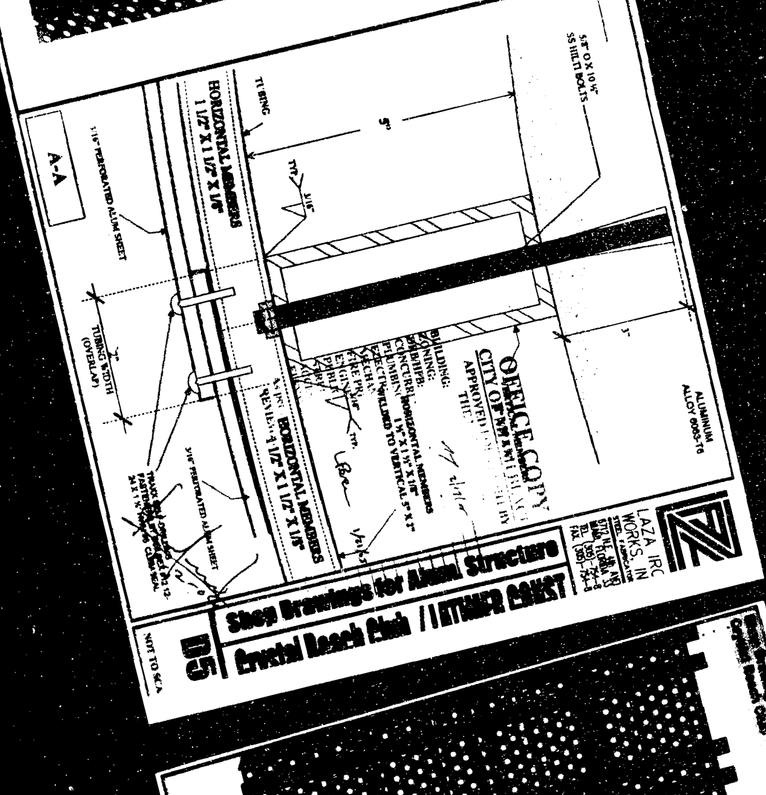
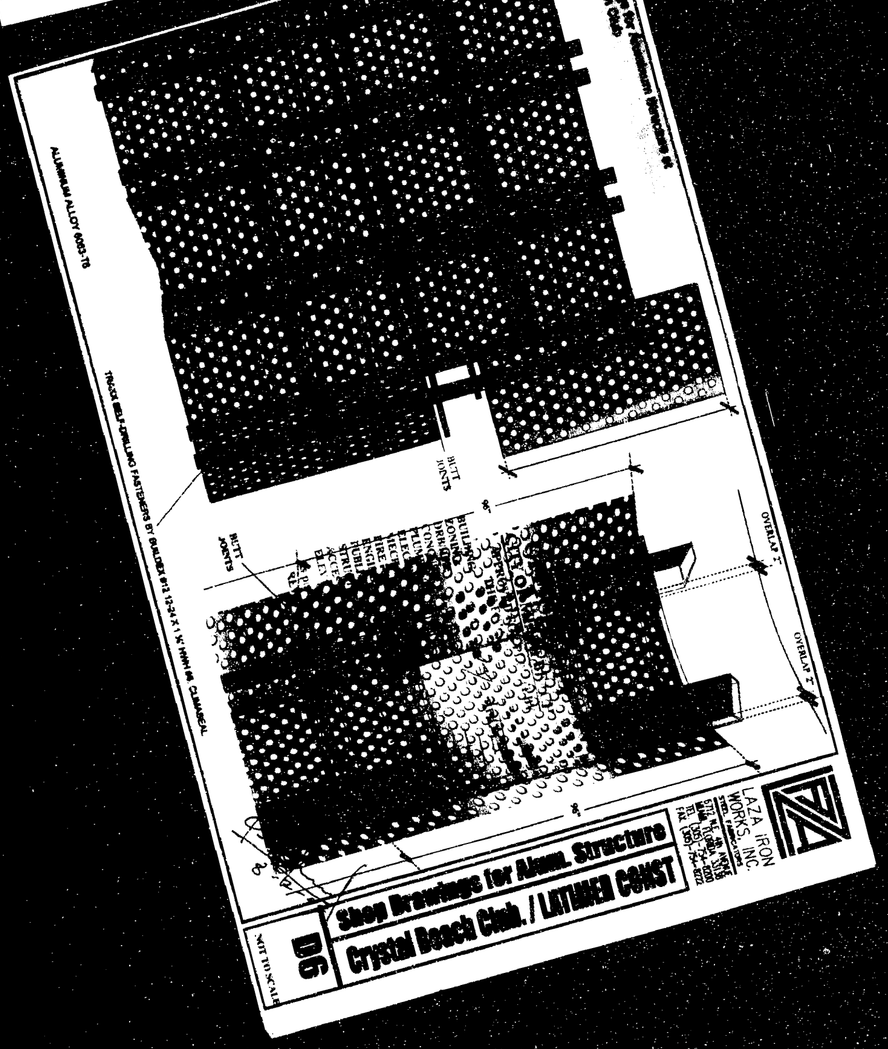

HORIZONTAL SECTION
TOP VIEW
ALUMINUM ALLOY 6063-T5
VERTICAL SECTION
SIDE VIEW
HORIZONTAL ALUMINUM 1 ½" x 1 ½" x 1/8"
VERTICAL ALUMINUM 2" x 5" x ¼"
3/16" PERFORATED ALUMINUM SHEET
5"
3"
3/16"
OFFICE COPY
BUILDING:
ZONING:
LAZA IRON WORKS, INC
STEEL FABRICATORS
Shop Drawings for Alum. Structure
Crystal Beach Club
D3
NOT TO SCA

ALUMINUM ALLOY 6063-T5
ALUMINUM ALLOY 6063-T5
48"
2"
96"
S1
S2
S3
S1-S1
S2-S2
VERTICAL 2" X 5" X ¼"
7"
3"
1 ½"
3/16"
TYP.
BUTT JOINTS
OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
BUILDING:
ZONING:
DRB/HPB:
TRAXX SELF-DRILLING FASTENERS BY BUILDEX #12 12-24 X 1 ¼" HWH #5. CLIMASEAL
LAZA IRON WORKS, INC
STEEL FABRICATORS
Shop Drawings for Alum. Structure
Crystal Beach Club
D4
NOT TO SCALE

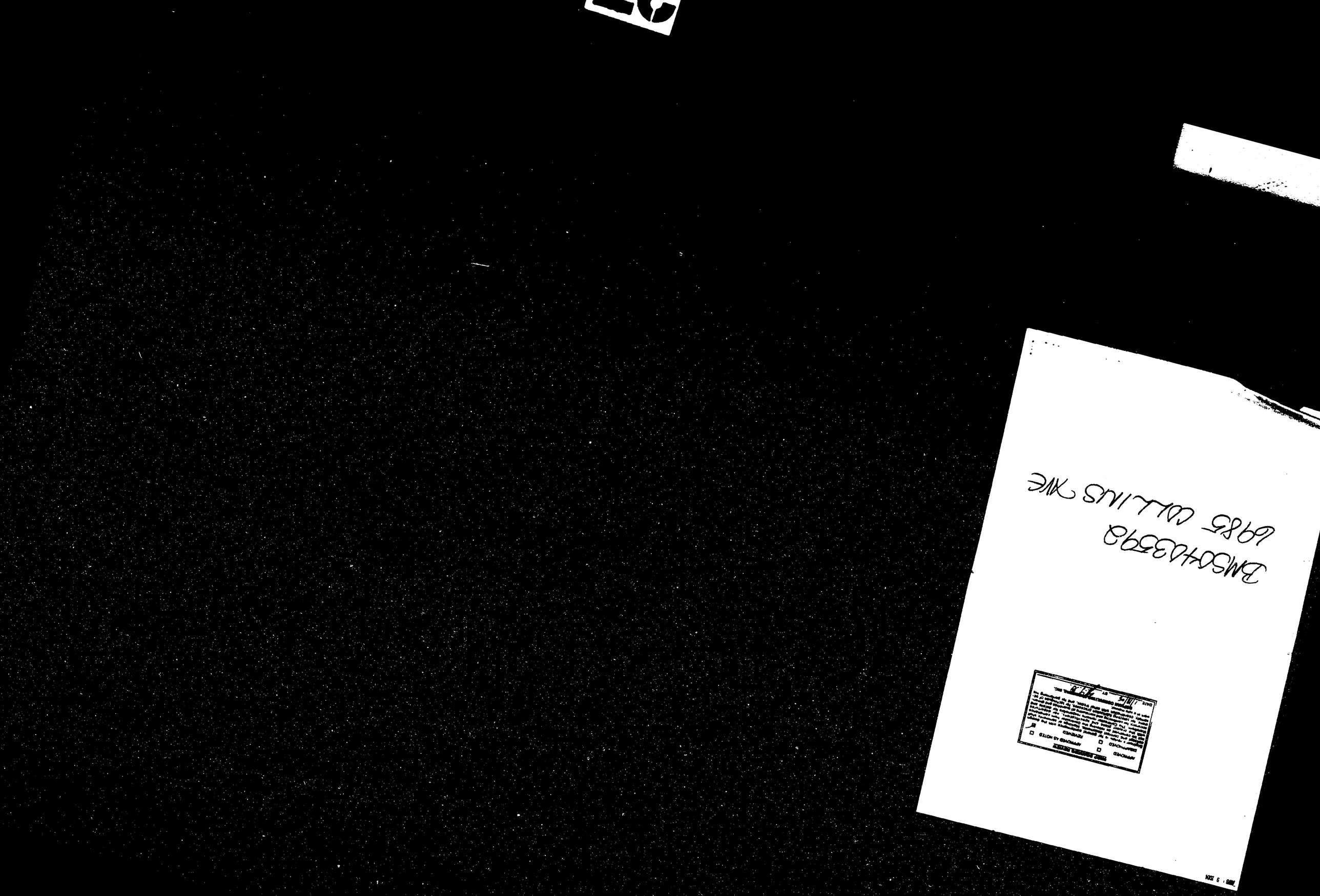
Shop Drawings for Aluminum Structures at Crystal Beach Club







LAZA IRON WORKS, INC.
Shop Drawings for Alum. Structure
Crystal Beach Club / LATTNER COAST
D7
NOT TO SCALE
OFFICE COPY
SIDE VIEW



PERMIT #

BMS0501520

23

MIAMI-DADE

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2227 FAX (305) 375-2758

CONTRACTOR'S COMPLAINT DIVISION
(305) 375-2901 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

United Steel Products Company
703 Rogers Drive (P. O. Box 80)
Montgomery MN 56069

Your application for Notice of Acceptance (NOA) of:
For: Mezzat Joist Hangers
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0327.04
EXPIRES: 06/04/2005

8758501520

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET. SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

1/24/05

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 05/31/2001

Revision: Name & Title

Address: 9805 NW 112th Avenue • Miami, Florida 33178-1156
Internet e-mail address: postmaster@dca.dadecounty.fl.us • Homepage: http://www.buildingcodeonline.com

JAN-14-2005 FRI 01:21 PM DCA PRODUCT CONTR

FAX NO. 7275958199

P. 01

United Steel Products Company

ACCEPTANCE NO. 01-0327.04
APPROVED: MAY 31 2001
EXPIRES: 06/04/2005

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. **SCOPE**
1.1 This renews the Notice of Acceptance No. 97-1215.07, which was issued on 06/04/98. It approves wood connectors, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County. For the locations where the actual loads as determined by SFBC Chapter 23, do not exceed the design load indicated in the approved drawings.

2. **PRODUCT DESCRIPTION**
2.1 The United Steel Wood Connectors shall be fabricated and used in strict compliance with the following documents: Drawing No. HJC JUS/SKH/01, sheet 1 and 2 of 2, titled "Face Mount Joist Hangers", prepared by United Steel Products Company, dated 03/2001 with no revisions. The drawings shall bear the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. **LIMITATIONS**
3.1 Allowable loads are for Southern Pine or better with a specific gravity of 0.55 and moisture content of 19% or less.
3.2 Allowable loads are based on testing per ASTM D1761 and calculations per National Design Specifications for Wood Construction 1991 Edition & 1991 Errata

4. **INSTALLATION**
4.1 The wood connectors shall be installed in strict compliance with the approved drawings.

5. **LABELING**
5.1 Each wood connector shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved".

6. **BUILDING PERMIT**
6.1 Application for Building Permit shall be accompanied by copies of the following:
6.1.1 This Notice of Acceptance
6.1.2 Duplicate copies of the approved drawings as identified in Section 2 of this Notice of Acceptance, clearly marked to show the hangers and angles selected for the proposed installation.
6.1.3 Any other document required by the Building Official or the SFBC in order to properly evaluate the installation of these products.

Candido Font, PE, Sr. Product Control Examiner
Product Control Division

2

JAN-14-2005 FRI 01:21 PM DCA PRODUCT CONTR

United Steel Products Company

ACCEPTANCE NO.: 01-0327.04
APPROVED: MAY 31 2001
EXPIRES: 06/04/2005

NOTICE OF ACCEPTANCE STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original or updated documentation, including test reports; data, engineering documents, are no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.

3. Renewal of Acceptance will not be considered if:
a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
b) The product is no longer the same product (identical in the one originally approved;
c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.

4. Any revision or change in the materials, etc. and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.

5. Any of the following shall also be grounds for removal of this Acceptance:
a) Unsatisfactory performance of this product or process.
b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.

6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, all of it shall be done in its entirety.

7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not seal the copies.

8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

Candido Font, PE, Sr. Product Control Examiner
Product Control Division

END OF THIS ACCEPTANCE

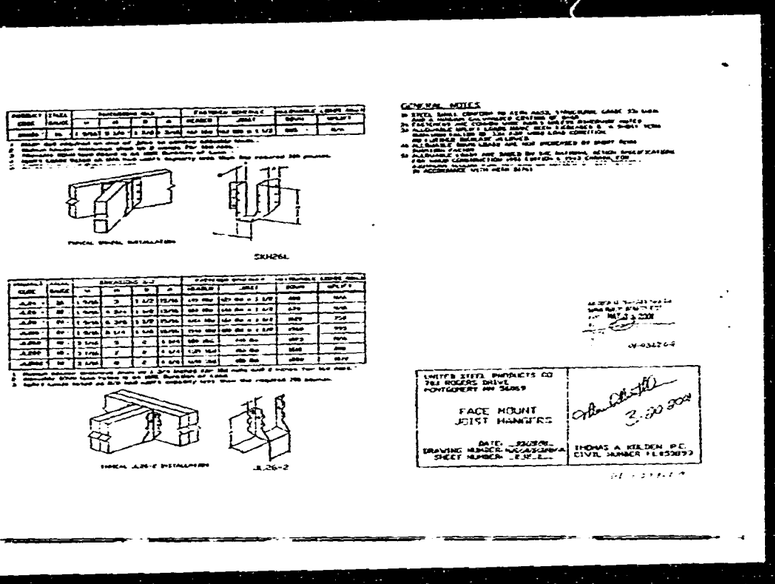
3

JAN-14-2005 FRI 01:21 PM DCA PRODUCT CONTR

FAX NO. 7275958199

P. 03/03

23



GENERAL NOTES

TYPICAL SKH26L INSTALLATION

SKH26L

TYPICAL JL26-2 INSTALLATION

JL26-2

UNITED STEEL PRODUCTS CO
703 ROGERS DRIVE
MONTGOMERY MN 56069

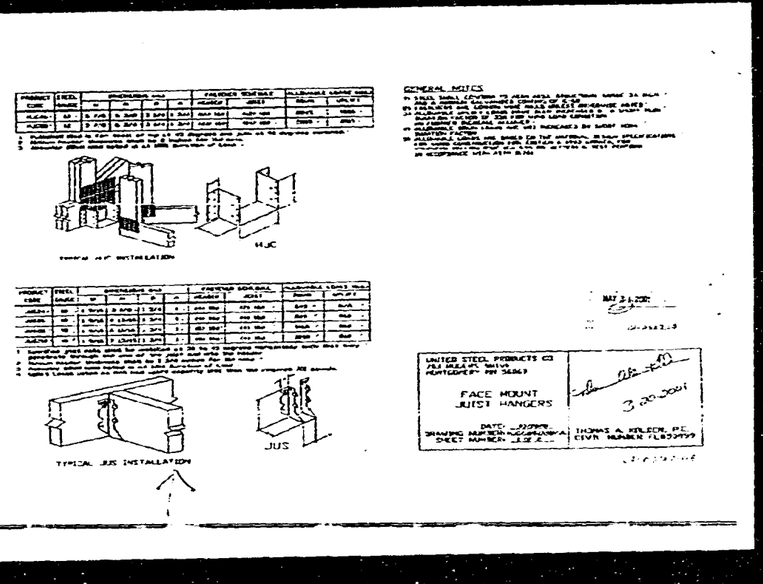
FACE MOUNT
JOIST HANGERS

DATE: 03/28/06
DRAWING NUMBER: HGCASSOMPA
SHEET NUMBER: FSP-E

THOMAS A. KELDEN P.E.
CIVIL NUMBER 41453979

3-30-2006

JAN-14-2005 FRI 01:22 AM UCI STRUCT CONN FAX NO. 7205558199 P. 06/15



GENERAL NOTES

TYPICAL HJC INSTALLATION

HJC

TYPICAL JUS INSTALLATION

JUS

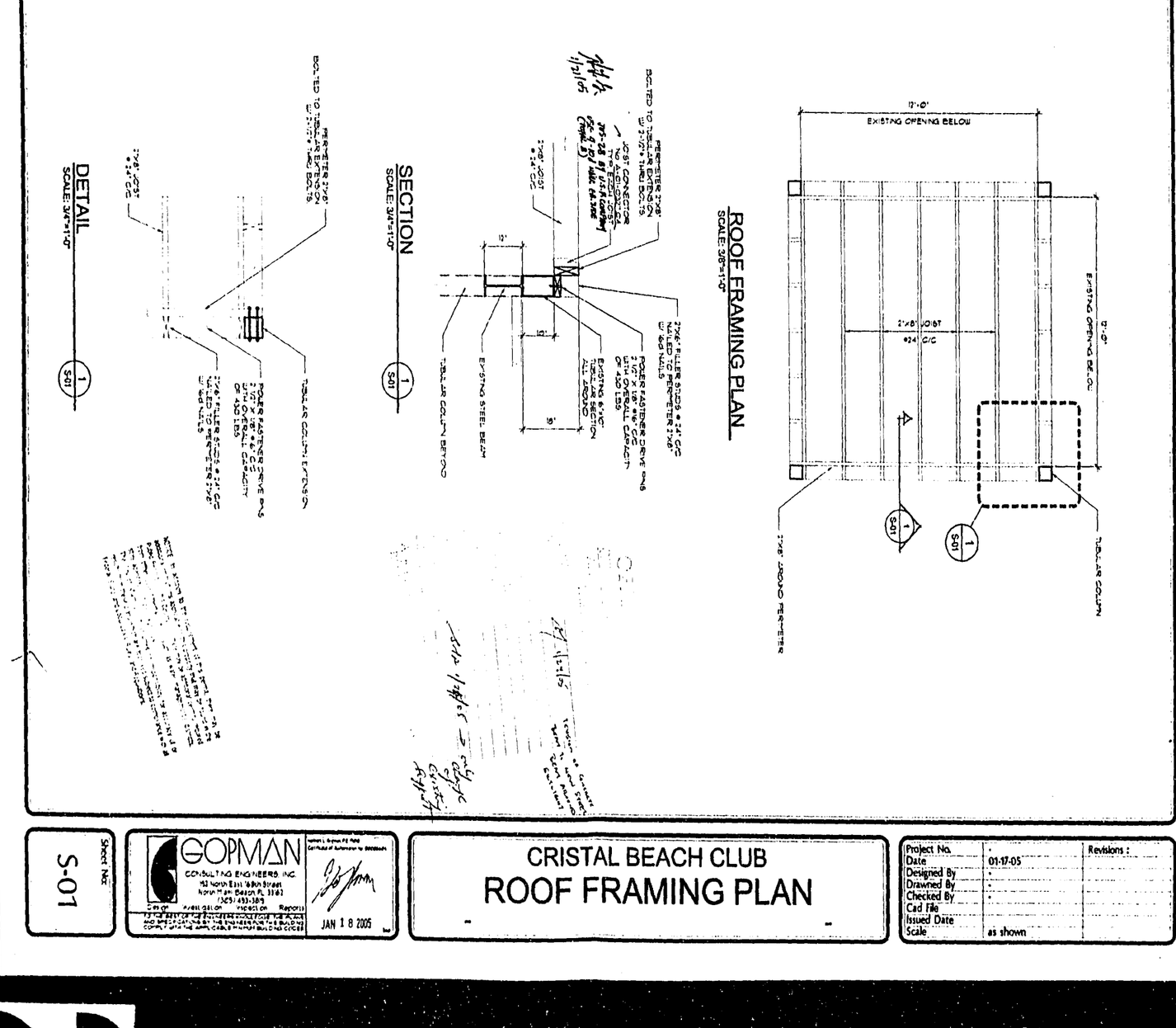
UNITED STEEL PRODUCTS CO
703 ROGERS DRIVE
MONTGOMERY MN 56069

FACE MOUNT
JUIST HANGERS

DATE: 03/28/06
DRAWING NUMBER: HGCASSOMPA
SHEET NUMBER: JUS-E

THOMAS A. KELDEN P.E.
CIVIL NUMBER 41453979

3-30-2006



GOPMAN
CONSULTING ENGINEERS, INC.
152 North 81st Terrace
North Miami Beach, FL 33161
(305) 493-3815

JAN 18 2005

CRISTAL BEACH CLUB
ROOF FRAMING PLAN

Project No.	-	Revisions :
Date	01-17-05	
Designed By	-	
Drawned By	-	
Checked By	-	
Cad File		
Issued Date		
Scale	as shown	

Sheet No.
S-01

BMS050520

6956 Collins Ave.

B5950 973

Job Address: _____ Contractor_____ Process No._____

Top Ply:
(Type and method of attachment)
"Flintlastic-FR" ✓
hot mopped

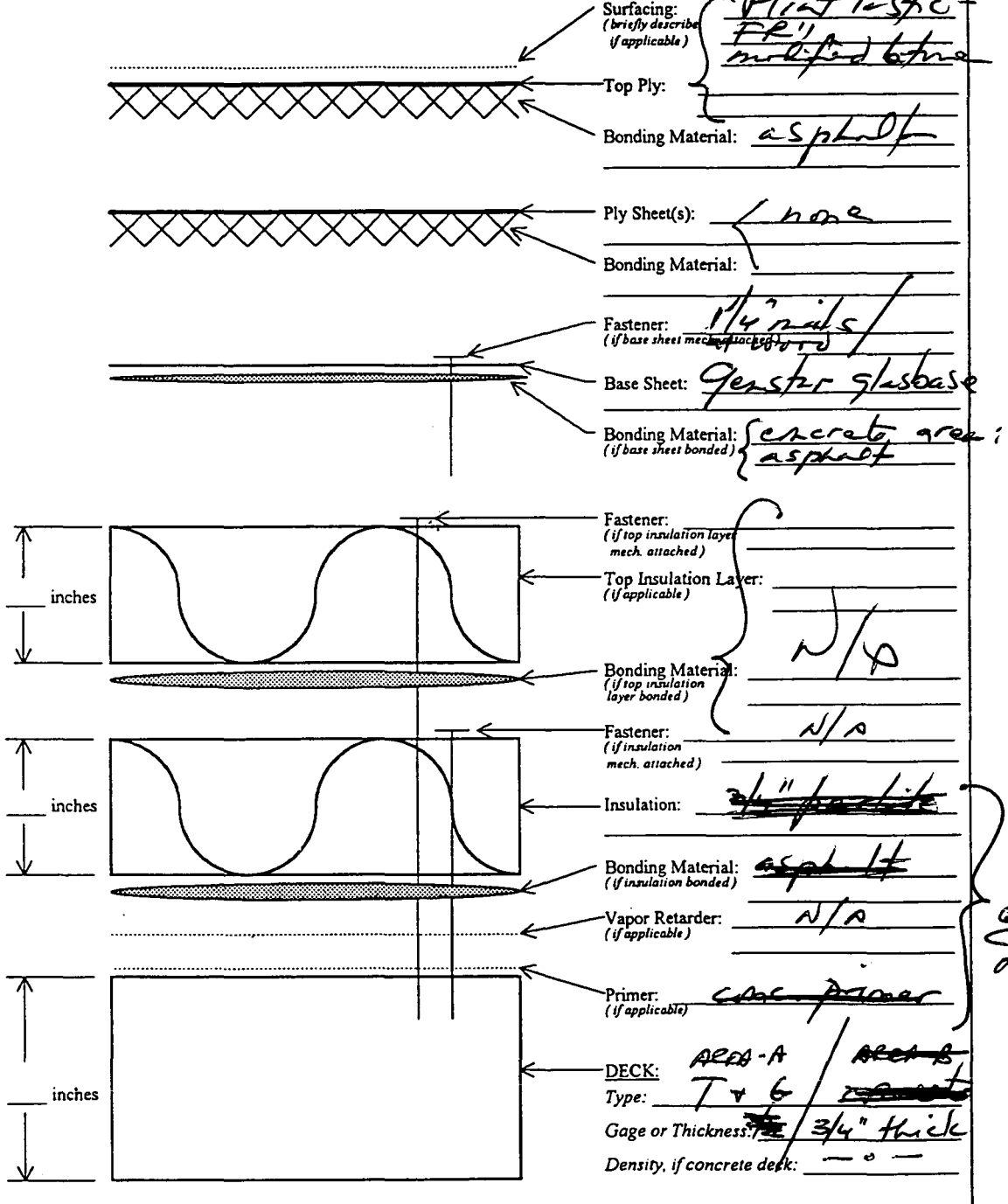
Surfacing:
(Type, if applicable)
N/A

Flashing Materials:
(Type and method of attachment)
" Flintlastic-FR" ✓
+ counterflashing

NEWDOC

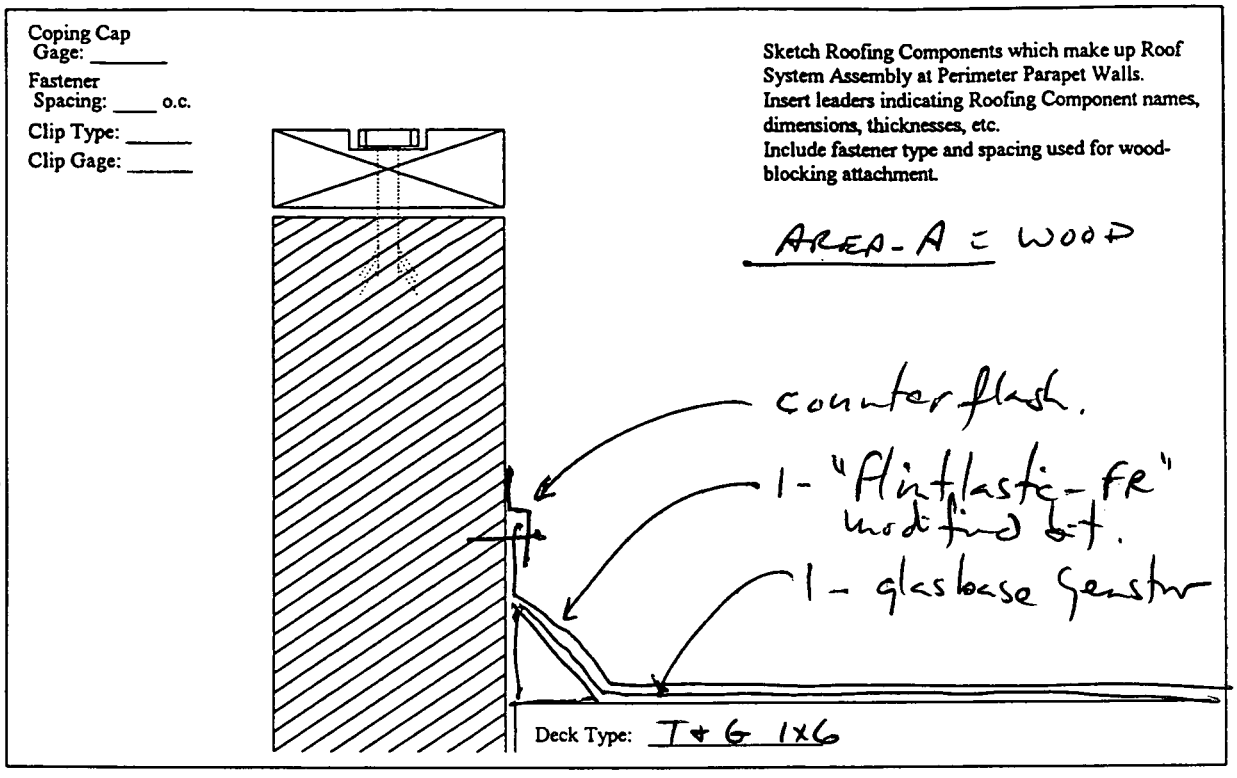
Job Address: 6985 Collins Ave Contractor_____ Process No._____

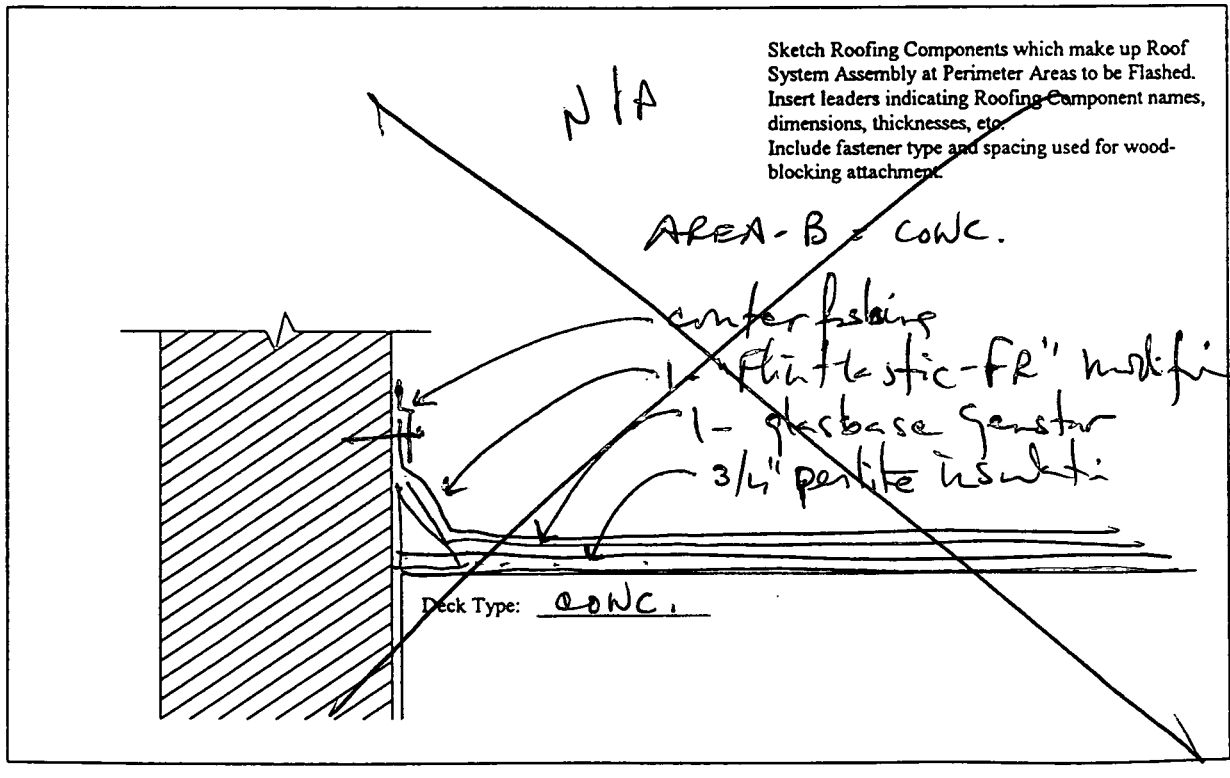
FILL IN APPLICABLE ROOFING COMPONENTS WHICH MAKE UP ROOF SYSTEM ASSEMBLY AND THICKNESS OF DECK AND INSULATION LAYER(S). (Where Roofing Component not used in Roof System Assembly, fill in with "N/A".)



Job Address: _____ Contractor_____ Process No._____

PERIMETER DETAIL #1: Parapet Wall Detail





PERIMETER DETAIL #2: Flashing Detail

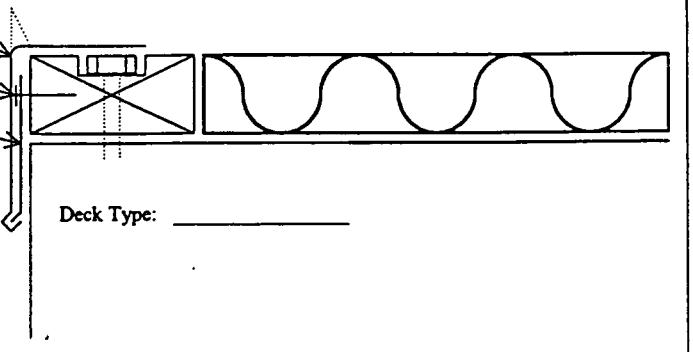
Job Address: _____ Contractor_____ Process No._____

PERIMETER DETAIL #3: Gravel Stop or Drip Edge

Sketch Roofing Components which make up Roof System Assembly at Perimeter Edge with Gravel Stop or Drip Edge.
Insert leaders indicating Roofing Components names, dimensions, thicknesses, etc.
Include fastener type and spacing used for wood-blocking attachment.

N/A

Gravel Stop/Drip Edge Gage: _____
Fastener Spacing: _____ o.c.
Clip Type: _____
Clip Gage: _____

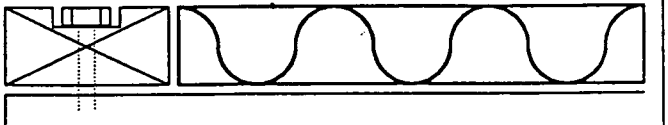


Deck Type: _____

Sketch Roofing Components which make up Roof System Assembly at Perimeter Edge with Gutters.
Insert leaders indicating Roofing Component names, dimensions, thicknesses, etc.
Include fastener type and spacing used for wood-blocking attachment.

N/A

Gutter Type: _____
Gutter Gage: _____
Fastener Spacing: _____



Deck Type: _____

PERIMETER DETAIL #4: Gutter Detail

Job Address: _____ Contractor_____ Process No._____

PERIMETER DETAIL #5: 'Other' Detail

Sketch Roofing Components which make up Roof System Assembly at any 'other' Perimeter Condition which may exisit.
Insert leaders indicating Roofing Component names, dimensions, thickesses, etc.
Include fastener type and spacing used for wood-blocking attachment.

N/A

Sketch Roofing Components which make up Roof System Assembly at any 'other' Perimeter Condition which may exisit.
Insert leaders indicating Roofing Component names, dimensions, thickesses, etc.
Include fastener type and spacing used for wood-blocking attachment.

N/A

PERIMETER DETAIL #6: 'Other' Detail

Job Address: 698 S. Collins Contractor_____ Process No._____

Insert Building and Parapet Heights.
(If no Parapet exists, insert "N/A")

Also insert applicable information pertaining to the building below.
(See ASCE 7-88 Fact Sheet Attached)

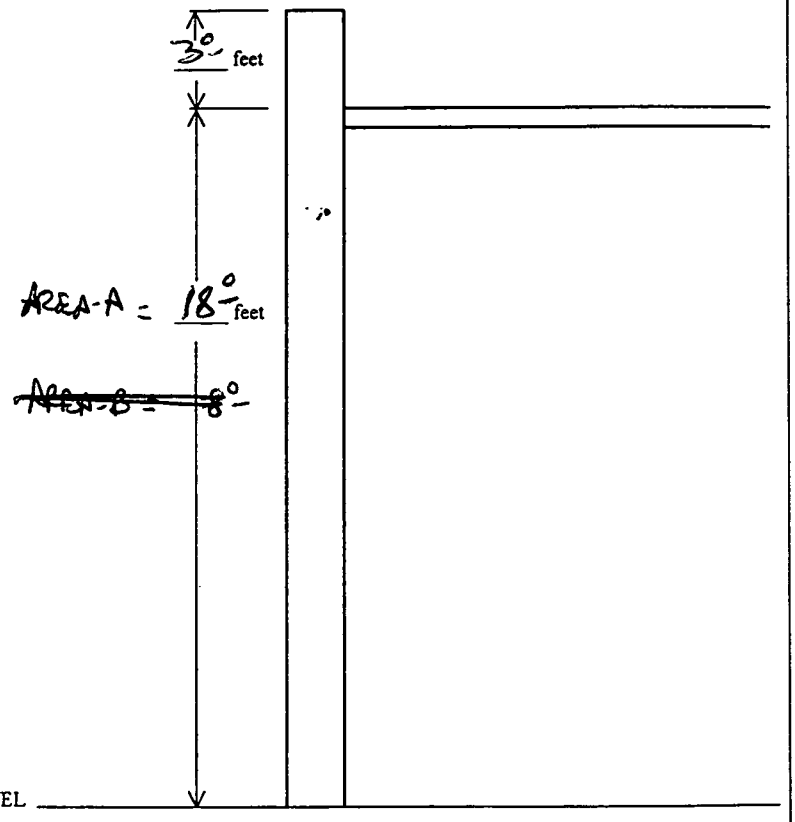
Exposure Category: _____

Classification Category: _____

At Hurricane Oceanline?: ___ Y ___ N

Basic Wind Speed at Building Location: 110 mph

Building Condition based on % of Openings: _____



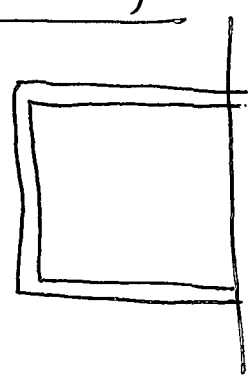
BUILDING INFORMATION #1

Job Address: 6985 Collins Contractor_____ Process No._____

Sketch Roof Plan indicating all dimensions, any slopes, roof drains, crickets, or roof top equipment. Also insert variable labeled "a" which indicates perimeter and corner dimensions per Chapter 23 of the South Florida Building Code.
(See ASCE 7-88 Fact Sheet Attached)

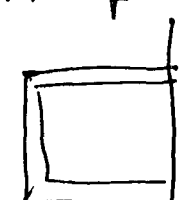
AREA-A (WOOD)

approx: 300.SF



AREA-B (CONC)

approx: 100.SF



SEE OTHER SHEET

BUILDING INFORMATION #2: Roof Plan with Perimeter and Corner Dimensions

Job Address: _____ Contractor_____ Process No._____

-- FOR PLAN EXAMINER USE ONLY --

Roof System Assembly Product Control Approved: ✓ Y ____ N

If NO, note any deficiencies:

_____

_____

_____

_____

Design Pressure Requirements:

Field: 45 psf

Perimeter Areas: 54 psf

Corner Areas: 75 psf

Note any limitations: Increase Fasteners 50% in Corner Areas

_____

_____

_____

_____

Reviewed Details?: ✓ Y ____ N

Notes: _____

_____

_____

_____

_____

PERMIT #

B0304927

36

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
305-375-2901 FAX: 305-375-2908

NOTICE OF ACCEPTANCE (NOA)

Construction Glass Industries Corporation
7830 N.W. 62nd Street
Miami, FL 33166

B0304927 MULLS

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The document/product submitted has been reviewed by the BCCO and accepted by the Building Code and Product Review Commission (BCPRC) to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The BCCO (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform, in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may reinstitute, revoke, modify, or suspend the use of such product or material within their jurisdiction. BCPRC reserves the right to revoke this acceptance, if it is determined by BCCO that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County or Florida Building Code.

DESCRIPTION: Aluminum Tube Mullion [illegible]

APPROVAL DOCUMENT: Drawing No. M95-13A, titled "Mullion Elevations and Details", sheet 1 through 3, prepared, signed and sealed by Al Farooq, P.E., dated 1/16/02, bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, firm, sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

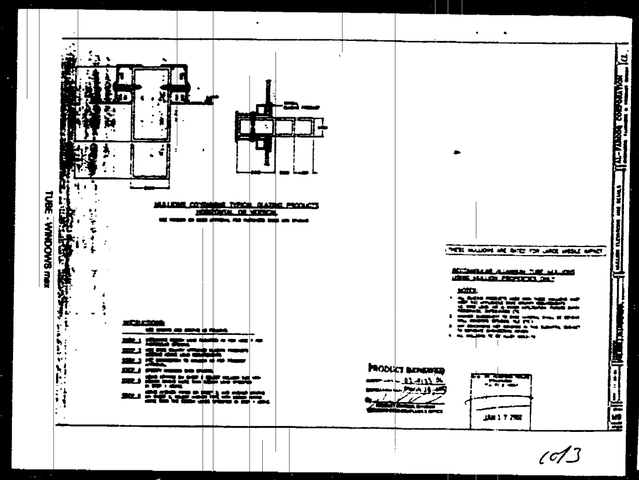
INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

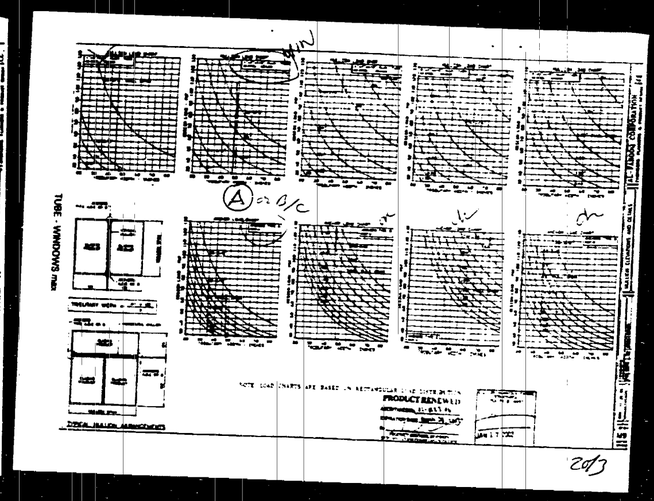
This NOA renews NOA # 99-0127.06 and, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by Ishul Rodriguez.

Planning
BLDG SHJ 9/3/03

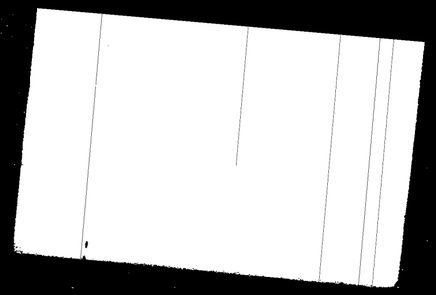
NOA No 02-0123.06
Expiration Date: March 28, 2007
Approval Date: March 14, 2002
Page 1

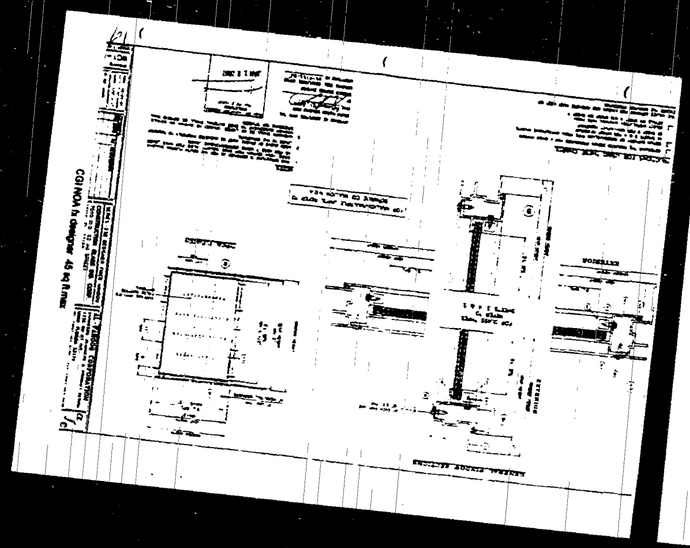
TUBE - WINDOWS max

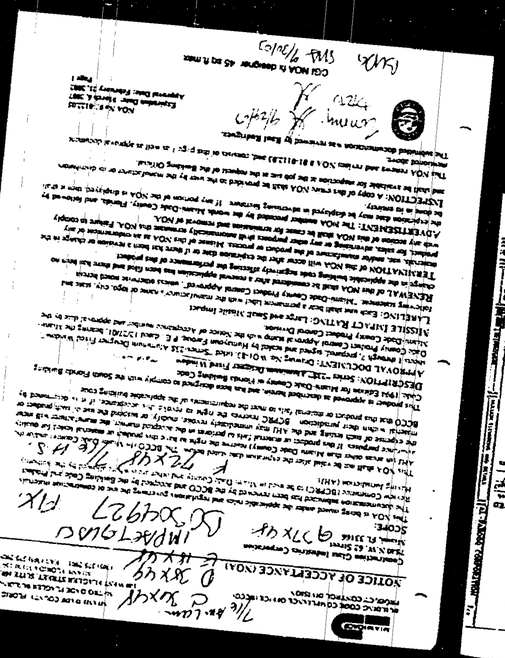


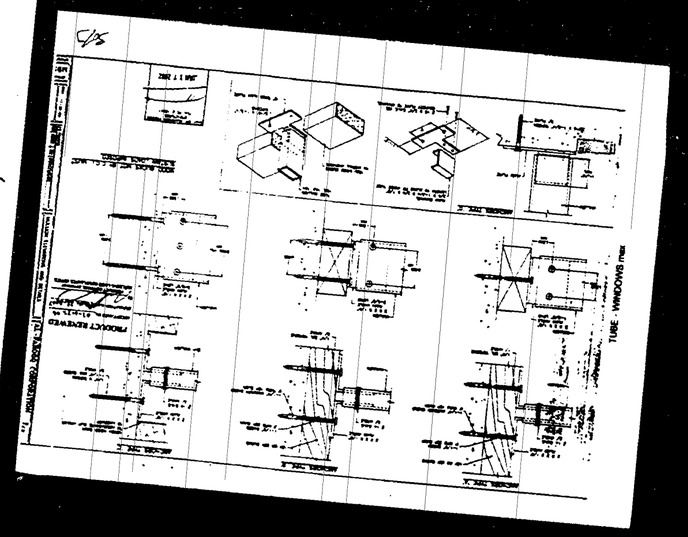


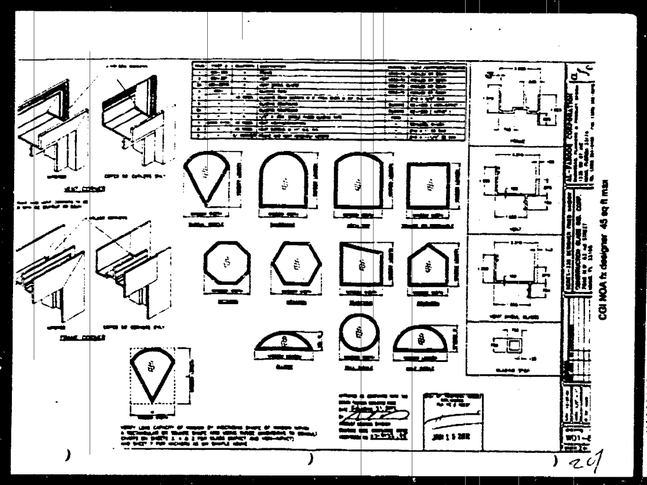
36

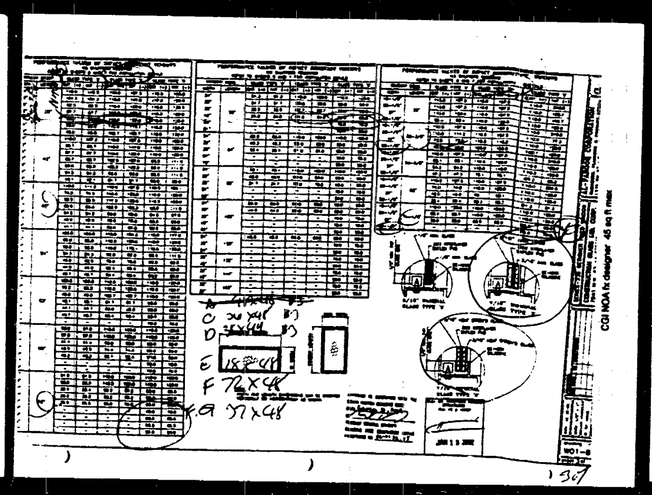


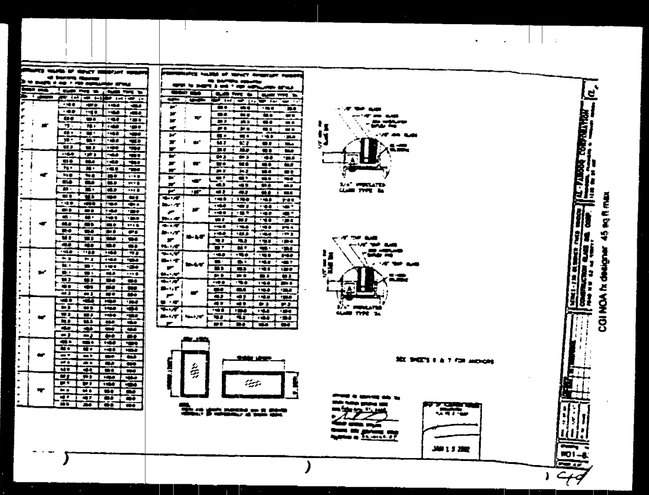




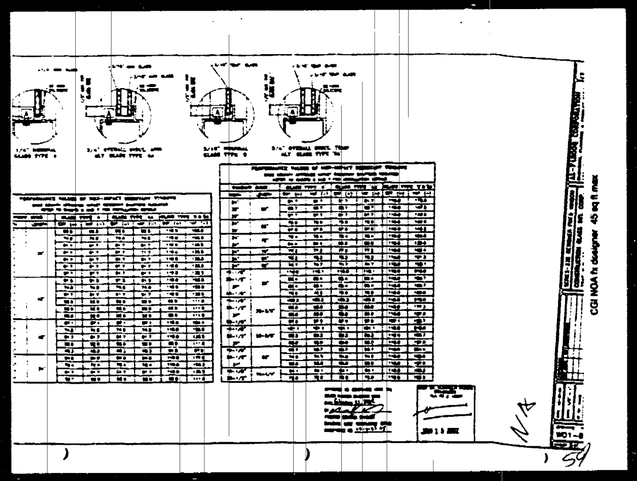


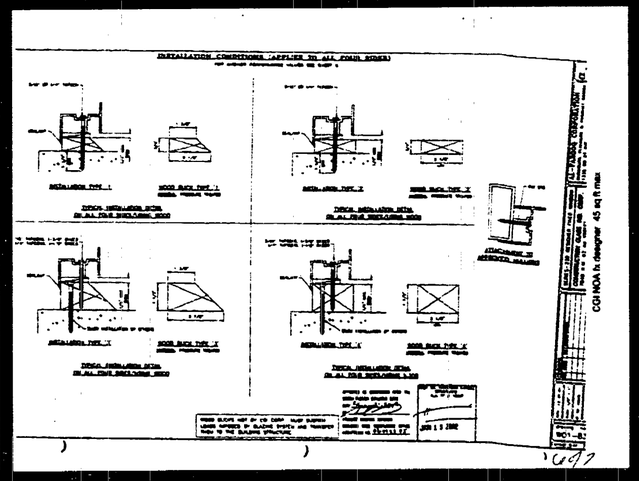

CGI NOA fx designer 45 sq ft max

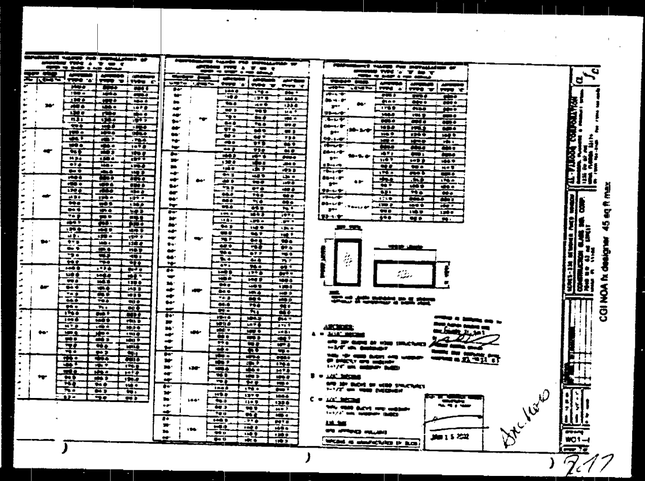

CGI NOA fx designer 45 sq ft max
C
D
E
F 72x48
G 97x48


CGI NOA fx designer 45 sq ft max

36







A 48 X 96
B 36 X 48

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1604
MIAMI, FLORIDA 33130-1561
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2570

CONTRACTOR ENFORCEMENT SECTION
(305) 375-2906 FAX (305) 375-2629

PRODUCT CONTROL SECTION
(305) 375-2901 FAX (305) 375-2908

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Construction Glass Industries Corporation
7840 N.W. 52nd Street
Miami FL 33166

B030427

PRODUCT CONTROL

Your application for Notice of Acceptance (NOA) of Series 238 Aluminum Project Out Window

has been reviewed by the Building Code Compliance Office (BCCO) and found to comply with the provisions of Chapter 8 of the Code of Miami-Dade County, governing the use of Materials, Methods and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-1019.03
EXPIRES: 10/31/2006

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET. SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS

BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

IMPACT.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 11/21/2001

exp. 10-31-06 max

Construction Glass Ind. Corp.

ACCEPTANCE No.: 01-1019.03
APPROVED: November 22, 2001
EXPIRES: October 31, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. **SCOPE**
1.1 This revises & renews Notice of Acceptance (NOA) No. 99-0329.02, which was issued on November 18, 1999. It approves an aluminum project out window, as described in Section 2 of this NOA, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated on the approved drawings.

2. **PRODUCT DESCRIPTION**
2.1 The Series "238" Aluminum Project Out Window – Non-Impact & Impact Resistant and its components shall be constructed in strict compliance with the following document: Drawing No W99-04, Sheets 1 through 6 of 6, titled "Series - 238 Alum Project Out Window," prepared by Al Fanoq Corporation, dated 1/21/99 and revised on 10/16/01, bearing the Miami-Dade County Product Control approval stamp with the NOA number and approval date by the Miami-Dade County Product Control Division. This document shall hereinafter be referred to as the approved drawings.

3. **LIMITATIONS**
3.1 This approval applies to single unit applications only, as shown in approved drawings
3.2 For Design Pressure Rating vs. Window Size, see Comparative Analysis Tables in approved drawings.

4. **INSTALLATION**
4.1 The aluminum project out window and its components shall be installed in strict compliance with the approved drawings.
4.2 Hurricane protection systems (shutters), to determine whether the installation requires a hurricane protection system or not, see corresponding table in approved drawings.

5. **LABELING**
5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved"

6. **BUILDING PERMIT REQUIREMENTS**
6.1 Application for building permit shall be accompanied by copies of the following:
6.1.1 This Notice of Acceptance
6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Raul Rodriguez, Chief
Product Control Division

2

exp 10-31-06 max

Construction Glass Ind. Corp.

ACCEPTANCE No.: 01-1019.03
APPROVED: November 22, 2001
EXPIRES: October 31, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state and the following statement: "Miami-Dade County Product Control Approved", or as specified in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
b) The product is no longer the same product (identical) as the one originally approved.
c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.
4. Any revision or change in the materials, size and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
a) Unsatisfactory performance of this product or process.
b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all times. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

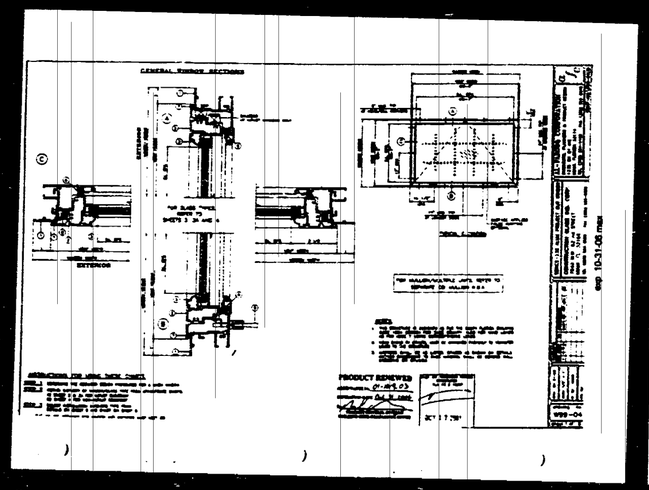
END OF THIS ACCEPTANCE

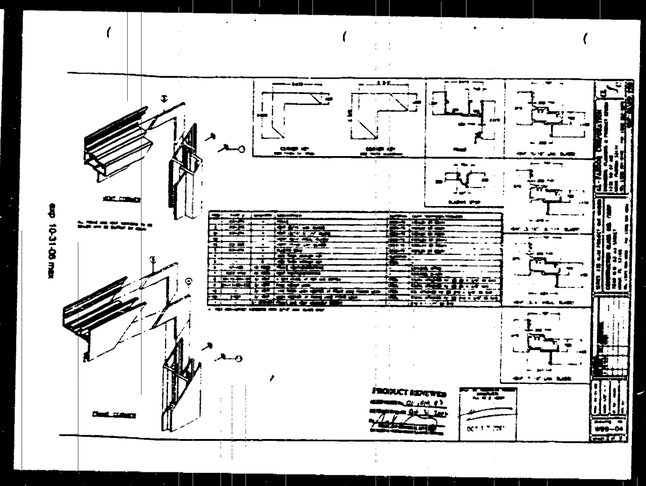
Raul Rodriguez, Chief
Product Control Division

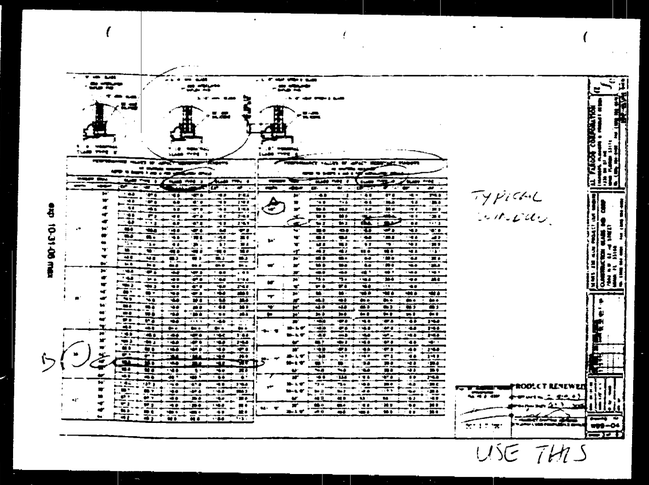
3

exp 10-31-06 max

36







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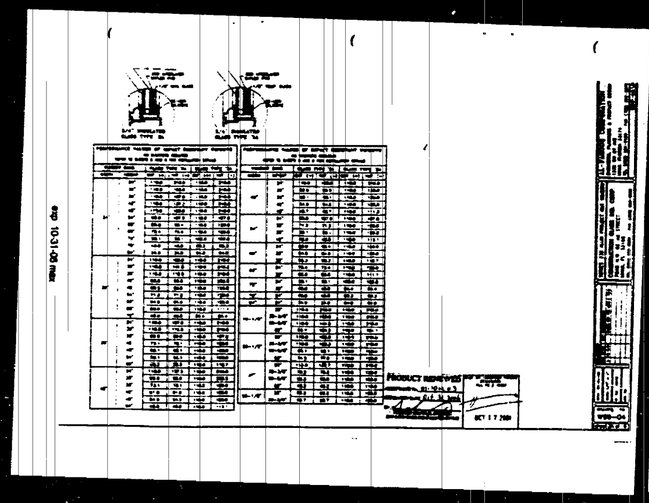

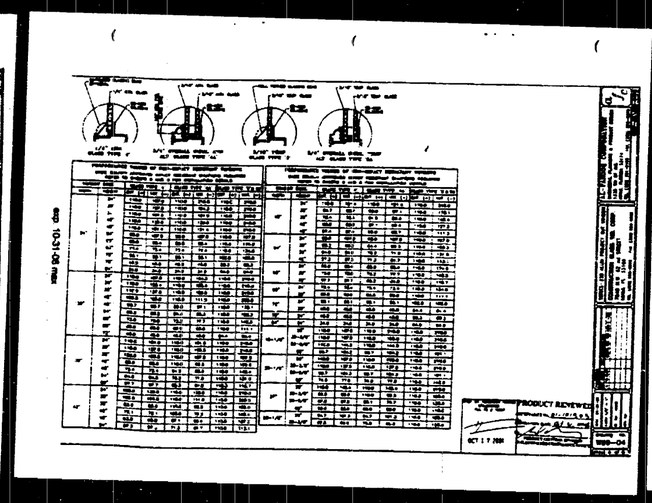

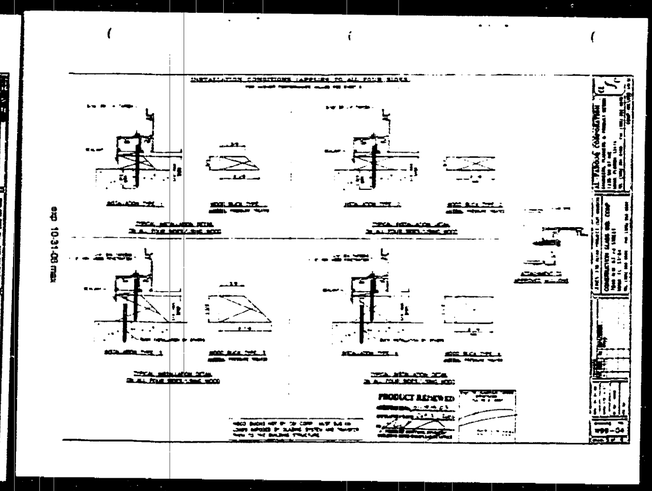

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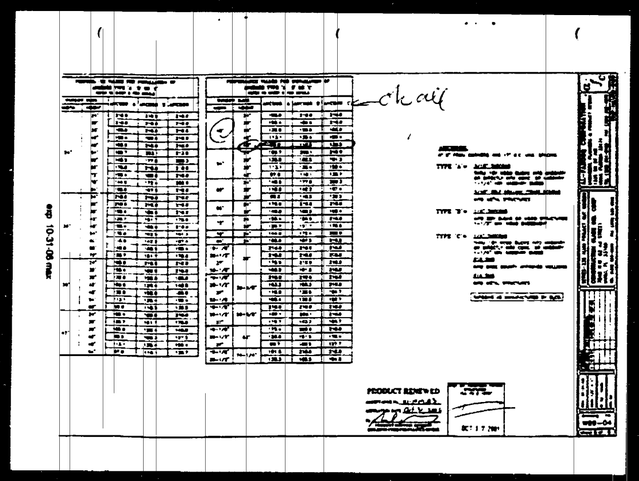

ckd

PRODUCT RENEWED

BCCO4927

BCO 3768

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-3138

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2930 FAX (305) 375-2939

PRODUCT CONTROL DIVISION
(305) 375-2850 FAX (305) 375-2839

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Fleetwor Corporation of Florida
1250 N.W. 74 Street
Miami ,FL 33147

Your application for Notice of Acceptance (NOA) of:
Series 8000 RMD-F Plush Outswing Commercial Steel Doors- Impact Resistant
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material or any tests from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expenses of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 91-0795.03
EXPIRES: 08/28/2001

Ross Hantgan
Chief Product Control Division

THIS IS THE COVERSHEET. SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS

BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

BLDG 5815 7/30/01

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 08/28/2001

Internet mail address: postmaster@buildingcodeoffice.com ● Homepage: http://www.buildingcodeoffice.com

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Fleetwor Corporation of Florida

ACCEPTANCE No.: 91-0795.03

APPROVED : August 28, 2001

EXPIRES : August 28, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE
1.1 This renews Notice of Acceptance No 98-0113.06, Which was issued on September 10, 1998 It approves a commercial steel door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION
2.1 The Series 8000 RMD-F Plush Outswing Commercial Steel Doors- Impact Resistant and its components shall be constructed in strict compliance with the following documents: Drawing No: 98-0113 06 titled "Series 8OOF Steel Door" Sheets 1 through 5 of 5, prepared by manufacturer dated 7/20/98, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS
3.1 This approval applies to single unit applications of pair of door and single door only, as shown in approved drawing. Single door unit shall include all components described in the active leaf of this approval.

4. INSTALLATION
4.1 The commercial steel door and its components shall be installed in strict compliance with the approved drawings.
4.2 Hurricane protection system (shutters). the installation of this unit will not require a hurricane protection system.

5. LABELING
5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS
6.1 Application for building permit shall be accompanied by copies of the following
6.1.1 This Notice of Acceptance
6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Ishaq I. Chanda, P.E. Product Control Examiner
Product Control Division

Firedoor Corporation of Florida

ACCEPTANCE No.: 01-0703.03
APPROVED : August 30, 2001
EXPIRES : August 30, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the required submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or an equivalently stated in the specific conditions of this Acceptance.

3. Renewals of Acceptance will not be considered if:
   a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
   b) The product is no longer the same product (identical) as the one originally approved;
   c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
   d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.

4. Any revision or change in the materials, size, and/or installation of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.

5. Any of the following shall also be grounds for removal of this Acceptance:
   a) Unsatisfactory performance of this product or process.
   b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.

6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.

7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reveal the owner.

8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

Ishaq I. Chanda

Ishaq I. Chanda, P. E., Product Control Examiner
Product Control Division

END OF THIS ACCEPTANCE
3

Firedoor Corporation of Florida

ACCEPTANCE No.: 01-0703.03
APPROVED : August 30, 2001
EXPIRES : August 30, 2006

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS (Transferred from file#98-0113.06)
1. Manufacturer's die drawings and sections.
2. Drawing No. 98-0113.06"Series. 8000F Steel Door", Sheets 1 thru 5 of 5, prepared by manufacturer, dated 07/28/98.

B. TESTS (Transferred from file#98-0113.06)
1. Test reports on 1) Air Infiltration Test, per PA 202-94
   2) Uniform Static Air Pressure Test, Loading per PA 202-94
   3) Water Resistance Test, per PA 202-94
   4) Large Missile Impact Test per SFBC, PA 201-94
   5) Cyclic Wind Pressure Loading per SFBC, PA 202-94
   6) Forced Entry Test, per SFBC 3002.2 (b) and PA 202-94

along with marked-up drawings and installation diagram of an out-swinging commercial steel doors, prepared by Pennoni Testing Laboratory, Inc., Test Report No. FTL-1865, dated 11/25/97 and reissued on dated 7/23/98, signed and sealed by Gilbert Diamond, P.E.

C. CALCULATIONS (Transferred from file#98-0113.06)
1. Anchor Calculations and structural analysis and Comparative Analysis, prepared by Applied Engineering Concepts, dated 12/03/97, signed and sealed by K.A. Whitfield, P.E.

D. MATERIAL CERTIFICATIONS (Transferred from file#98-0113.06)
1. Tensile Test prepared by ATC Associates, Inc., Project No. 13974.0001(FTL#1865), dated December 10, 1997, for steel samples, tested per ASTM A370-96, signed and sealed by Peter Reed, P.E.
2. Notice of Acceptance No. 95-0826.01 issued to Apache Products Company for "IPS-Expanded Polystyrene Insulation" dated 01/11/96, expiring on 01/11/99.

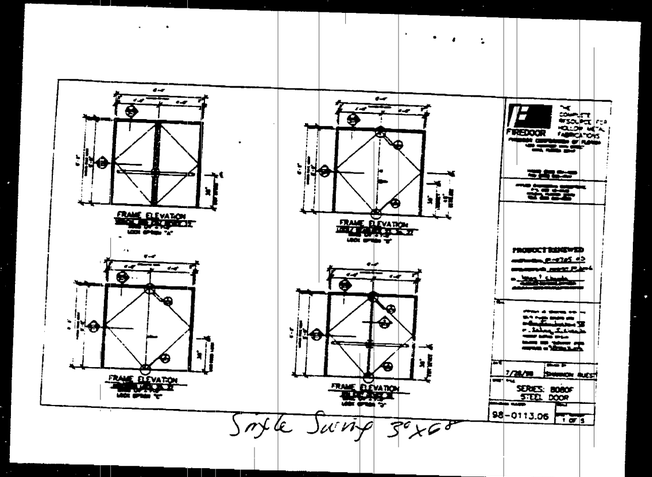
E. STATEMENTS (Transferred from file#98-0113.06)
1. Statement letter of conformance, dated December 18,1997, signed by Kelvyn Whitfield, P.E.
2. Statement letter of no financial interest, dated December 18, 1997, signed by Kelvyn Whitfield, P.E.
3. Statement letter dated May 28, 2001, issued by Firedoor Corp, stating that product has not changed, signed by Justin Schreiber.
4. Statement letter dated June 13, 2001, issued by Applied Engineering, stating engineer still in business, signed and sealed by Kevin Whitfield, P.E.

F. OTHER
1. This renews Notice of Acceptance No. 98-0113.06, which expires on September 10, 2001

Ishaq I. Chanda

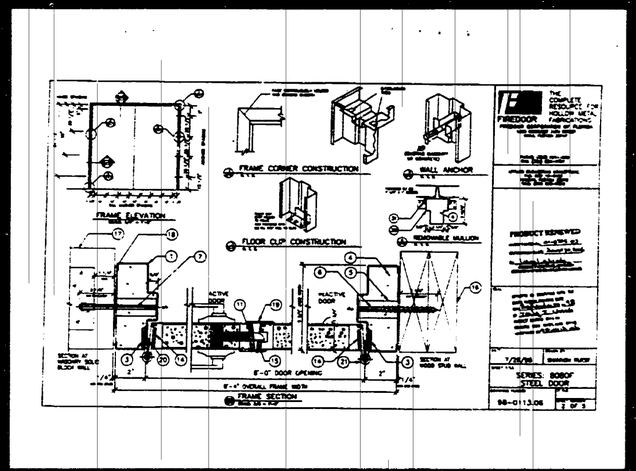
Ishaq I. Chanda, P.E Product Control Examiner
Product Control Division

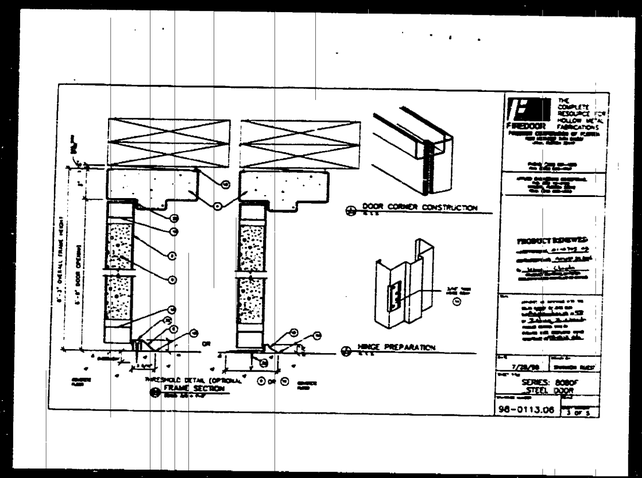
E - 1-

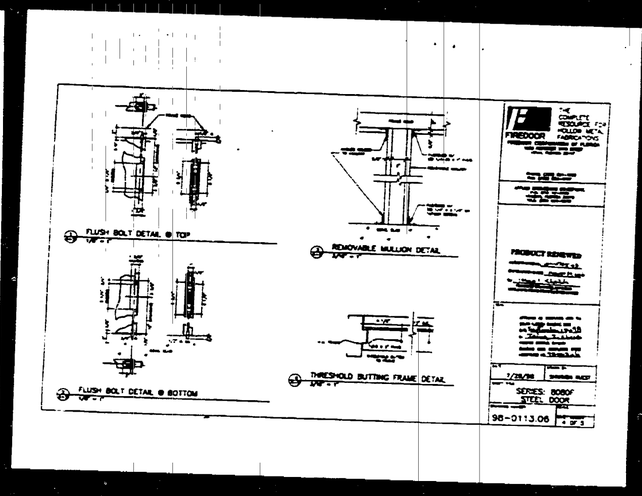


Single Swing 3'0"x6'8"

36


FRAME ELEVATION
FRAME CORNER CONSTRUCTION
WALL ANCHOR
FLOOR CLIP CONSTRUCTION
REMOVABLE MULLION
ACTIVE DOOR
INACTIVE DOOR
3'-0" DOOR OPENING
7'-0" OVERALL FRAME WIDTH
FRAME SECTION
FIREDOOR
THE COMPLETE RESOURCE FOR HOLLOW METAL FABRICATIONS
PRODUCT REVIEWED
7/28/99
SERIES: 808OF
STEEL DOOR
98-0113.06
1 OF 5


DOOR CORNER CONSTRUCTION
HINGE PREPARATION
THRESHOLD DETAIL (OPTIONAL)
FRAME SECTION
FIREDOOR
THE COMPLETE RESOURCE FOR HOLLOW METAL FABRICATIONS
PRODUCT REVIEWED
7/28/99
SERIES: 808OF
STEEL DOOR
98-0113.06
2 OF 5


FLUSH BOLT DETAIL @ TOP
REMOVABLE MULLION DETAIL
FLUSH BOLT DETAIL @ BOTTOM
THRESHOLD BUTTING FRAME DETAIL
FIREDOOR
THE COMPLETE RESOURCE FOR HOLLOW METAL FABRICATIONS
PRODUCT REVIEWED
7/28/99
SERIES: 808OF
STEEL DOOR
98-0113.06
3 OF 5

BILL OF MATERIALS

ITEM	QUANTITY	MATERIALS	BASIC DESCRIPTION
1	1	16 GAUGE WELDED FRAME	5 3/4" DEEP X 2" WD.
2	1	16 GAUGE DOOR SKIN	1 3/4" THICK
3	2	16 GA. DOOR STIFFENER	1 3/4" X 1 3/4"
4	1	16 GA. DOOR BOTTOM	1 3/4" X 8"
5	2	16 GA. DOOR SKIN REINF.	1 3/4" X 11 1/2" X 16 GA.
6	1	16 GA. DOOR SKIN REINF. (FOR SURFACE BOLTS)	1 3/4" X 11 1/2" X 16 GA.
7	1	16 GA. DOOR SKIN REINF. FOR THUMB TURN (FOR DBH)	3/4" X 8"
8	1	16 GA. DOOR SKIN REINF. FOR ANTENNA (DBH)	3/4" X 8"
9	1	16 GA. DOOR SKIN REINF. FOR CYLINDER (DBH)	3/4" X 8"
10	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
11	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
12	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
13	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
14	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
15	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
16	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
17	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
18	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
19	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
20	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
21	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
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39	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
40	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
41	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
42	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
43	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
44	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
45	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
46	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
47	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
48	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
49	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
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51	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
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67	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
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74	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
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76	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
77	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
78	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
79	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
80	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
81	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
82	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
83	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
84	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
85	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
86	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
87	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
88	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
89	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
90	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
91	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
92	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
93	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
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95	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
96	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
97	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
98	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"
99	1	16 GA. DOOR SKIN REINF. FOR CLOSER	3/4" X 8"
100	1	16 GA. DOOR SKIN REINF. FOR PANIC HARDWARE	3/4" X 8"

NOTES:
- MINIMUM YIELD STRENGTH OF 45,000 PSI
- ALL FINISHES AND WELDING COMPONENTS TO BE STEEL

Firedoor Corporation of Florida
Product Control Number
Test Opening Size
Door Thickness
Core
Vision Lite (Positive Glazed)

DESIGN PRESSURE RATING
+ 90 PSF, -90 PSF

THE COMPLETE RESOURCE FOR HOLLOW METAL FABRICATIONS

PRODUCT REVIEWED

7/28/98

SERIES: 6000F
- STEEL DOOR

98-0113.06 | 5 OF 5

MIAMI-DADE

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1561
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING METRO
(305) 375-2527 FAX (305) 375-2...

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2901 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2987 FAX (305) 372-6...

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Firedoor Corporation of Florida
1350 N.W. 74 Street
Miami ,FL 33147

D(4) 3'x6'

Your application for Notice of Acceptance (NOA) of
3070 HMD-FV Flush w/Vision Outswinging Commercial Steel Door-Impact
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure the product or material at any time from a jobsite or manufacturer's plant for quality control testing. If the product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if a determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: **01-0705.02**
EXPIRES: 11/05/2006

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET. SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS

BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

B030 4927
SNB 9/30/10

APPROVED: 11/05/2001

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

...\2000\Word\pc2000\flashguard\entrance acceptance cover page.doc

Internet mail address: postmaster@buildingcodeonline.com Homepage: http://www.buildingcodeonline.com

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Firedoor Corporation of Fla.

ACCEPTANCE No.: 01-0705.
APPROVED: November 8, 20
EXPIRES: November 5, 20

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE
1.1 This renews Notice of Acceptance (NOA) No **97-1204.02**, which was issued on November ... 1998. It renews the approval of a commercial steel door, as described in Section 2 of this NO... designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-D... County, for the locations where the pressure requirements, as determined by SFBC Chapter 23... not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION
2.1 The Series **"3070 HMD-FV" Flush w/Vision Outswing Commercial Steel Door - Imp... Resistant** and its components shall be constructed as steel compliance with the following docume... Drawing No **97-1204.02**, Sheets 1 through 5 of 5, titled "Series 3070FV Steel Door," prepared ... manufacturer, dated 09/15/98, bearing the Miami-Dade County Product Control renewal stamp w... the NOA number and expiration date by the Miami-Dade County Product Control Division. Th... document shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS
3.1 This approval applies to single unit applications of single door only, as shown on approved drawin...

4. INSTALLATION
4.1 The commercial steel door and its components shall be installed in strict compliance with the approved drawings.
4.2 Hurricane protection system (shutters): the installation of this unit will not require a hurrica... protection system.

5. LABELING
5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved"

6. BUILDING PERMIT REQUIREMENTS
6.1 Application for building permit shall be accompanied by copies of the following:
6.1.1 This Notice of Acceptance
6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation
6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system

Raul Rodriguez, Chief
Product Control Division

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Firedoor Corporation of Fla.

ACCEPTANCE No.: 91-0705.0

APPROVED: November 8, 20

EXPIRES: November 5, 20

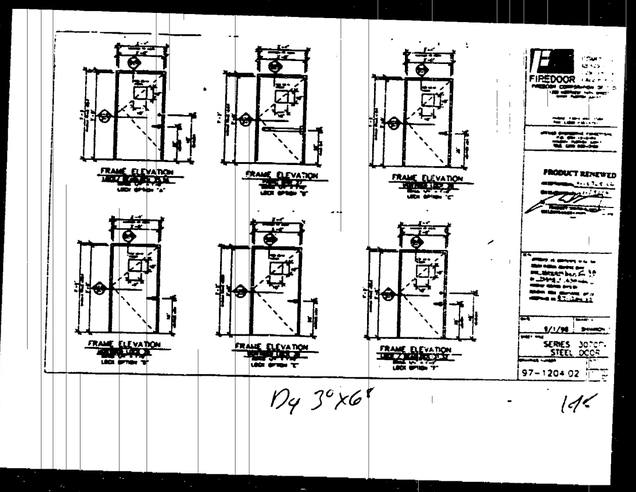
NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
   a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
   b) The product is no longer the same product (identical) as the one originally approved;
   c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
   d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
   a) Unsatisfactory performance of this product or process.
   b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not remit the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3

END OF THIS ACCEPTANCE

Raul Rodriguez, Chief
Product Control Division

3



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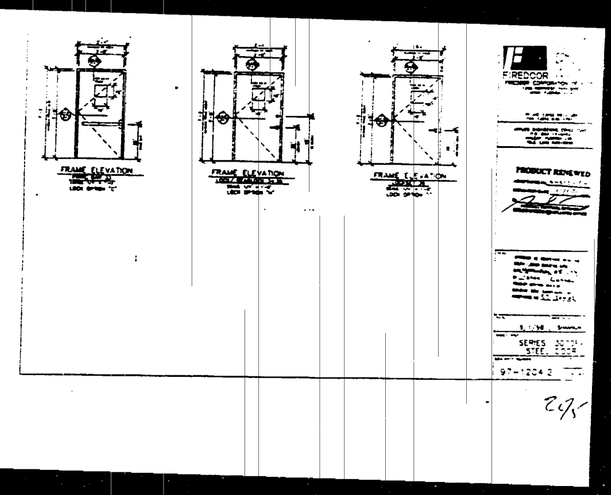

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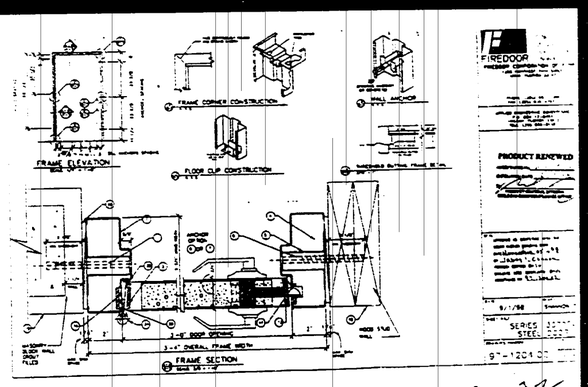
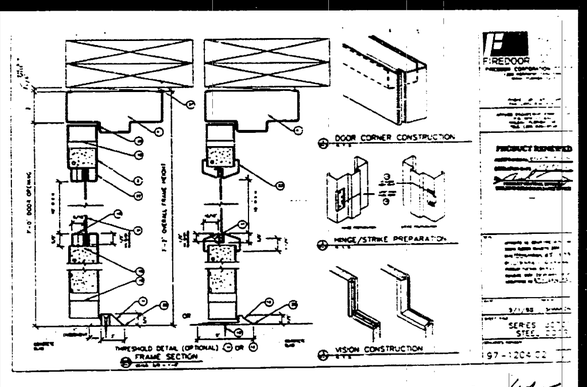
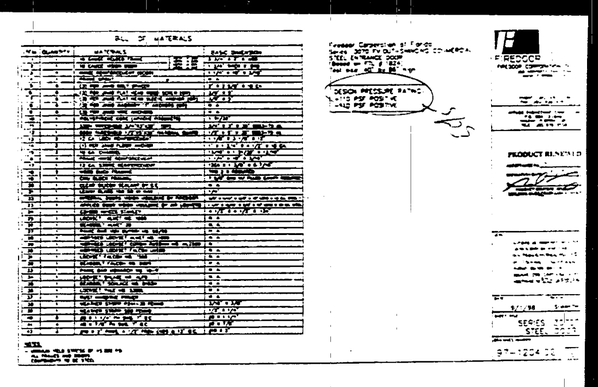

FRAME ELEVATION
FRAME CORNER CONSTRUCTION
WALL ANCHOR
FLOOR CLIP CONSTRUCTION
FRAME SECTION
FIREDOOR
PRODUCT RENEWED
SERIES
STEEL
97-1204.00


DOOR CORNER CONSTRUCTION
HINGE/STRIKE PREPARATION
VISION CONSTRUCTION
THRESHOLD DETAIL (OPTIONAL)
FRAME SECTION
FIREDOOR
PRODUCT RENEWED
SERIES
STEEL
97-1204.02


BILL OF MATERIALS
DESIGN PRESSURE RATING
FIREDOOR
PRODUCT RENEWED
SERIES
STEEL
97-1204.00

36

Applied Engineering Concepts, Inc.
P.O. Box 12-6483
Hialeah, Florida 33012
Tel. (305) 828-0150

September 9, 1999

Firedoor Corporation of Florida
1350 N.W. 74th Street
Miami, Florida 33147

Attention: Mr. Julio Merino

Re: File Number 99-378
Laboratory Number: 9834
Series 3070 PV, Commercial Steel Entrance Door
Size: 3'-0" wide by 7'-2" high by 1 3/4" deep

Dear Mr. Merino:

This letter is for clarification on above referenced unit. The above unit was tested with a vision light. However, the vision light does not change the integrity of the steel panel and does not add structural performance to the system. Therefore, this does not change the satisfactions or testing performance on the above referenced product.

If you have any questions, please do not hesitate to contact us.

Sincerely,

Applied Engineering Concepts, Inc.

Sergio Alcantara
Applied Engineering Concepts, Inc.

MIAMI-DADE

JUL - 2 2001

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1561
(305) 375-2901 FAX (305) 375-2908

CONTRACTORS LICENSING SECTION
(305) 375-2527 FAX (305) 375-2474

CONSTRUCTION ENFORCEMENT SECTION
(305) 375-2901 FAX (305) 375-2908

PRODUCT CONTROL SECTION
(305) 375-2902 FAX (305) 375-2908

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Firedoor Corporation of Florida
1350 N.W. 74 Street
Miami ,FL 33147

DO 5'x7'6"
DO 6'-0" 6'8"

Your application for Notice of Acceptance (NOA) of
Series 8080 1L- Full Louver Outswing Commercial Steel Doors
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0326.05
EXPIRES: 06/1/2006

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET. SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS

BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above. BOX4927

DLOG STAT 9/12/07

APPROVED: 06/28/2001

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

Tab#1806 f for 2800\application\firedoor acceptance cover page.doc

Firedoor Corporation of Florida.

ACCEPTANCE No.: 01-0326.05
APPROVED: JUN 2 8 2001
EXPIRES: June 11, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. **SCOPE**
1.1 This renews the Notice of Acceptance, No. 98-0113.07, which was issued June 11, 1998 : approves a louvered commercial steel door, as described in Section 2 of this Notice of Acceptance designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, d not exceed the Design Pressure Rating values indicated in the approved drawings.

2. **PRODUCT DESCRIPTION**
2.1 The Series **8080 HMD-1L Full Louvered Outswing Commercial Steel Door** and its component shall be constructed in strict compliance with the following documents: Drawing No **98-0113.07** Sheets 1 through 4 of 4, titled "Index to Bill of Materials", prepared by manufacturer, date 04/29/98, bearing the Miami-Dade County Product Control approval stamp with the Notice o Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. **LIMITATIONS**
3.1 This approval applies to single unit applications of pair of doors and single door only, as shown in approved drawings. Single door units shall include all components described on the active leaf of this approval.
3.2 Unit shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of canopy or overhang to sill is less than 45 degrees. Unless unit is installed in non-habitable areas where the unit and the area are designed to accept water infiltration.
3.3 Thermal efficiency of this product is not part of this acceptance.

4. **INSTALLATION**
4.1 The commercial steel door and its components shall be installed in strict compliance with the approved drawings.
4.2 Hurricane protection system (shutters): the installation of this unit will require a hurrican protection system.

5. **LABELING**
5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. **BUILDING PERMIT REQUIREMENTS**
6.1 Application for building permit shall be accompanied by copies of the following:
6.1.1 This Notice of Acceptance
6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation
6.1.3 Any other documents required by the Building Official or the South Florida Building Cod (SFBC) in order to properly evaluate the installation of this system.

Manuel Perez, P.E. Product Control Examine
Product Control Division

36

Fireglaze Corporation of Florida

ACCEPTANCE No.: 91-0326.05

APPROVED : JUN 2 8 2001

EXPIRES : June 11, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.

3. Renewals of Acceptance will not be considered if:
   a. There has been a change in the South Florida Building Code affecting the evaluation of the product and the product is not in compliance with the code changes.
   b. The product is no longer the same product (identical) as the one originally approved.
   c. If the Acceptance holder has not complied with all the requirements of this acceptance including the correct installation of the product.
   d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.

4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.

5. Any of the following shall also be grounds for removal of this Acceptance:
   a. Unsatisfactory performance of this product or process.
   b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.

6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.

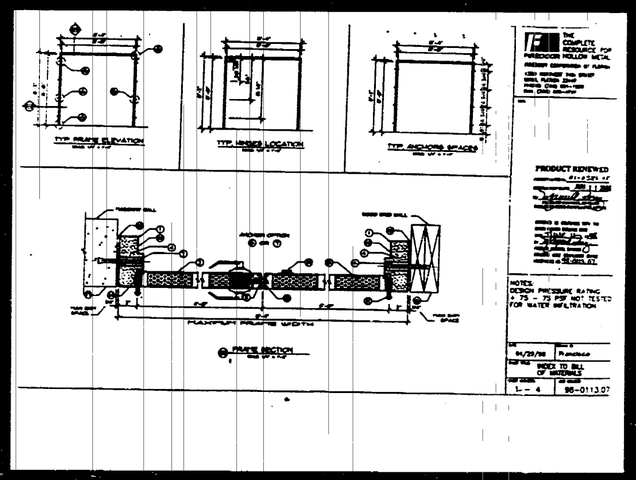
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reveal the copies.

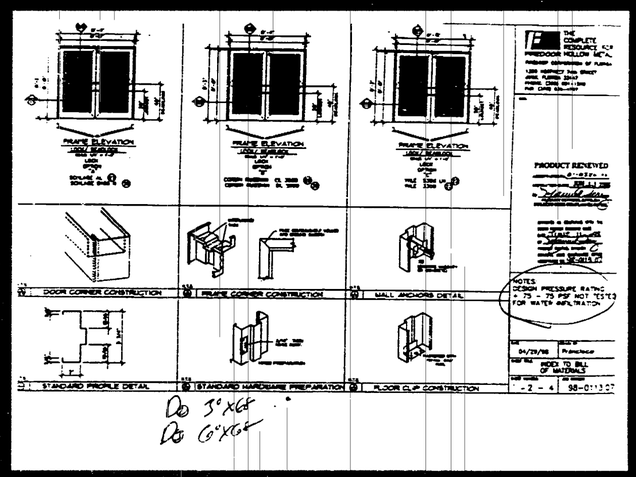
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and the last page 3.

END OF THIS ACCEPTANCE

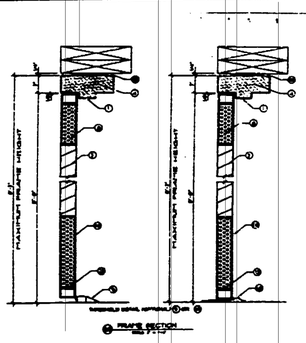
Manuel Perez, P.E., Product Control Examiner
Product Control Division





Do 5'x6'
Do 6'x6'

36



THE COMPLETE RESOURCE FOR FIRESIGN HOLLOW METAL

PRODUCT RENEWED

NOTES
DESIGN PRESSURE RATING + 75 - 75 PSF NOT TESTED FOR WATER INFILTRATION

DATE 04/29/98	DRAWN BY Pyramidwest
SHEET TITLE INDEX TO BILL OF MATERIALS	
SHEET NUMBER -3-4	JOB NUMBER 98-0113

BILL OF MATERIALS

ITEM	QUANTITY	MATERIALS	QUANTITY
1	1	16 GAUGE WELDED FRAME	3 3/4" X 1" X VAR
2	1	16 GAUGE FULL LOUVRED DOOR	1 3/4" THICK X VAR
3	4	HINGE REINFORCEMENT (DOOR)	1 1/4 X 10" X 3/16"
4	8	FRAME GROUT	N.A.
5	8	(4) PER JAMB BOLT SPACER	2" X 2 5/8" X 16 GA
6	1	(4) PER JAMB FLAT HEAD WOOD SCREW (TYP)	3/4" X 8"
7	1	(4) PER JAMB FLAT HEAD SLEEVE ANCHOR	3/4" X 8"
8	1	POLYSTYRENE CORE (APACHE PRODUCTS)	N. G. A. # 88-0826 PI
9	1	200SAV ALUMINUM THRESHOLD FRAME (TYP)	3/4" X 2 1/2" X 48"
10	1	200SAV ALUMINUM THRESHOLD RAISER	1/2" X 5" X 48"
11	2	LOCK REINFORCEMENT	1 1/2" X 3 1/4" X 13 GA.
12	2	(1) PER JAMB FLOOR ANGLE ANCHOR	1" X 1 3/4" X 6 1/2" X 16 GA.
13	3	CHANNEL (2) TOP AND (1) BOTTOM	13/16" X 1 21/32" X 13/16" X 16 GA.
14	4	HINGE REINFORCEMENT (FRAME)	1 1/4" X 10" X 3/16"
15	1	STRIKE REINFORCEMENT	1 13/32" X 1 1/8" X 14 GA.
16	2	WOOD BUCK CHANNEL	1 1/2" X 11 1/2"
17	1	C. M. U. BLOCK CHANNEL	2 3/8" CMU
18	1	OZAR SILICONE SEALANT BY OE	N. A.
19	1	NOT USED	NOT USED
20	1	NOT USED	NOT USED
21	4	1279 HINGE MADER	4 1/2" X 4 1/2" X 134
22	1	LOCKSET YALE 5408 GRADE 2	N. A.
23	1	DEADBOLT YALE 3308 GRADE 2	N. A.
24	1	NOT USED	N. A.
25	1	NOT USED	N. A.
26	1	RUST INHIBITIVE PRIMER	N. A.
27	1	LOCKSET SCHLAGE AL	N. A.
28	1	DEADBOLT SCHLAGE B660H	N. A.
29	1	LOCKSET CORBIN RUSSWIN CL 3660	N. A.
30	1	LOCKSET CORBIN RUSSWIN DL 3660	N. A.
31	2	SURFACE BOLT 1086 STANLEY	N. A.

NOTES
1. MINIMUM YIELD STRESS OF 45,000 PSI
2. ALL FRAMES AND DOORS COMPONENTS TO BE STEEL

THE COMPLETE RESOURCE FOR FIRESIGN HOLLOW METAL

PRODUCT RENEWED

NOTE
1. 4 HINGES PER JAMB
2. 4 ANCHORS PER JAMB
3. NO HURRICANE PROTECTION CERTIFICATIONS REQUIRED

DATE 04/29/98	DRAWN BY Pyramidwest
SHEET TITLE INDEX TO BILL OF MATERIALS	
SHEET NUMBER 4 - 4	JOB NUMBER 98-0113

GBM

Mr Hillel Meyers Hotel property at 1065 Collins Avenue Miami Beach, Florida
October 27, 2003
Page 2

Subject is a four (4)-story hotel building of CBS construction, containing 84 guest suites, recreational and support facilities, built in 1950, as per tax roll. The property has a total building area of 72,011 SF, as per plans prepared by Beilinson Architects, Miami, Florida. The building is divided into a first floor of 21,139 SF and three floors of 16,954 SF each.

This appraisal report has been prepared in accordance with the Uniform Standards of Professional Appraisal Practice (USPAP), as promulgated by the Appraisal Foundation and the Appraisal Standard Board. This letter is accompanied by a summary appraisal report in narrative format.

The appraisers have entered into an agreement to perform this assignment that called for a departure, or something less than, or different from the work that would otherwise be required by the Uniform Standards of Professional Appraisal Practice (USPAP) rules and invokes its Departure Rule.

The departure taken in this Restricted Summary Appraisal was to perform the Market Value of the subject, based only on the Cost and Market Sales Comparison Approaches; therefore, the other approach was invoked. The information contained, is specific to the needs of the client and for the intended use stated in this Restricted Summary Appraisal Report. The client is fully informed and knowledgeable of its limitations and uses, and has agreed that the performance of a Restricted Summary Appraisal Report would be appropriate.

Based upon our research and analysis, it is the opinion of the appraisers that the Market Value of the subject property, depreciated improvements, in "as is" condition, as of October 23, 2003, is estimated to be:

NINE MILLIONS TWO HUNDRED THOUSAND DOLLARS
($9,200,000.00)

The appraisers certified they have no interest, past or present, in the subject property, and that our conclusion of value is based on professionally accepted techniques and methods and further, that our fee is not contingent upon any specific finding. The conclusion of value is also subject to our standard limiting conditions, included in this report.

Respectfully submitted,

State Certified General Appraiser, License # RZ1590

SUMMARY OF SALIENT FACTS AND CONCLUSIONS

Estimated indicated value of subject property depreciated improvements in "as is" condition by the following approaches to value are

Subject Property Land Market Value	$ 3,500,000.00
Subject Property Market Value	$12,700,000.00
Depreciated Value of Subject Property Improvements	$ 9,200,000.00

Market Value of the fee simple interest of the subject property depreciated improvements in "as is" condition, as of October 23, 2003, is estimated at:

$9,200,000.00

NINE MILLIONS TWO HUNDRED THOUSAND DOLLARS

GBM

October 27, 2003

Mr Hillel Meyers
President
First Leisure Corp
6985 Collins Avenue
Miami Beach, Florida 33141

Appraisal Report On: Hotel Depreciated Improvements
6985 Collins Avenue
Miami Beach, Florida 33141
Our File #GE10031504

Dear Mr Meyers

Pursuant to your request, I have appraised the above captioned property in order to estimate Market Value of subject property depreciated improvements, in Fee Simple, as October 23, 2003 I, personally inspected subject on October 23, 2003

It is our understanding this value report was required to help you, our customer, with your projected remodeling of subject property, to be according to city and other government agencies regulations. Only two approaches to value were considered in order to estimate market value of subject. The Sales Comparison and Cost Approaches. They are reliable and supportable approaches utilized to appraise a hotel property such as subject. This is a restricted summary appraisal report

Market Value, according to the Uniform Standards of Professional Appraisal Practice, (USPAP), is defined as "The most probable price which a property should bring in a competitive and open market under all conditions requisite to a fair sale, the buyer and seller each acting prudently and knowledgeably, and assuming the price is not affected by undue stimulus."

Implicit in this definition is the consummation of a sale as of a specified date and passing of title from the seller to buyer under conditions whereby
- Buyer and seller are typically motivated,
- Both parties are well informed or well advised, and acting in what they consider their best interest
- A reasonable time is allowed for exposure in the open market,
- Payment is made in terms of cash in United States dollars or in terms of financial arrangements comparable thereto, and
- The price represents normal consideration for the property sold unaffected by special or creative financing or sales concessions granted by anyone associated with the sale

EXISTING NORTH ELEVATION

EXISTING WEST ELEVATION

48 HOURS PRIOR TO EXCAVATING
CONTRACTOR SHALL CALL FOR LOCATION OF
UNDERGROUND UTILITIES
1-800-432-4770
305-673-7080
Sunshine One-Call
City of Miami Beach

PUBLIC WORKS
PLAN REVIEW NOTICE
Phone 305-673-7589 Fax 305-673-7505
THIS PLAN REVIEW CONSTITUTES APPROVAL FOR
OBTAINING BUILDING PERMITS ONLY
All construction and or use of equipment in the right-of-way and or easements requires a permit per Public Works Department permit MUST BE SENT AT LICENSEE(S).
Public Requirements: Proof of existing sidewalk double area construction and or altering of sidewalk resolution before
Public Works "hold" letter will be removed prior to the issuance of
final sign-off on the CC CO or the release of license.
Approved Reviewed By: [illegible] Date

BELLINSON

LEE BELLINSON AIA
ARCHITECT
MIAMI FL
TEL
FAX

OF OUR
LOANS PERMIT CANNOT BE
ITEMS TO BE

B0514927
OFFI
CITY OF MIA
APPROVED
BUILDING
ZONING
DRB/HPB
CONCURR
PLUMBING
FIRE DEPT
ENGINEERING
PUBLIC WORKS
SEWER TAP
ADDRESSING
FEE CALC
REVIEWED FOR CODE COMPLIANCE

An exterior Doors [illegible]

Plumbing Fixture Schedule

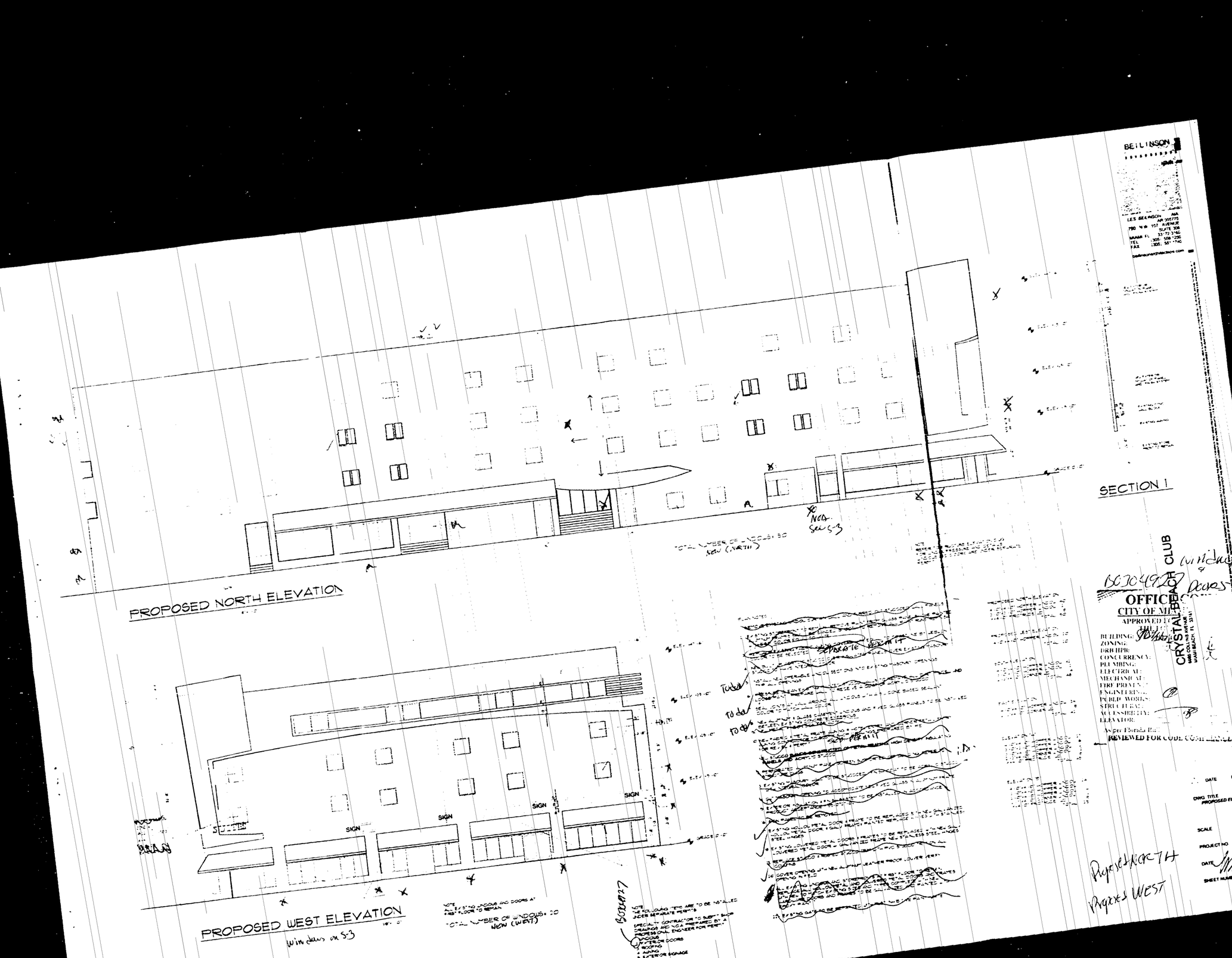
CRYSTAL BEACH CLUB
[illegible]

DATE REVISION

DWG TITLE
EXISTING ELEVATIONS

SCALE
PROJECT NO 2007-37
DATE 09-25-07
SHEET NUMBER A-3

36



PROPOSED NORTH ELEVATION

SECTION 1

PROPOSED WEST ELEVATION

Windows on S-3

SIGN

SIGN

SIGN

SIGN

SCREEN

BRICK

TOTAL NUMBER OF WINDOWS: 20
NEW (WEST)

TOTAL NUMBER OF WINDOWS: 80
NEW (NORTH)

NOTE
ALL EXISTING WINDOWS AND DOORS AT FIRST FLOOR TO REMAIN

NOTE
1. SEE FOLLOWING SITE AREA TO BE INSTALLED UNDER SEPARATE PERMITS
2. UNDER SEPARATE CONTRACTOR TO SUBMIT SHOP DRAWINGS AND NOA TO ARCHITECT BY A REGISTERED FLORIDA ENGINEER FOR PERMIT
3. WINDOWS
4. EXTERIOR DOORS
5. ROOFING
6. AWNING
7. EXTERIOR SIGNAGE

Separate Permit

Today

To do

To do

BEILINSON

LEE BEILINSON AIA
AR 20177
780 NW 1ST AVENUE
SUITE 308
MIAMI FL 33 72 3150
TEL (305) 558-2200
FAX (305) 561-1742
beilinsonarchitects.com

CRYSTAL BEACH CLUB
6660 COLLINS AVE
MIAMI BEACH, FL 33141

BC304920 (windows & doors)

OFFICE
CITY OF MI
APPROVED F
BUILDING:
ZONING:
DRB/HPB:
CONCURRENCY:
PLUMBING:
ELECTRICITY:
MECHANICAL:
FIRE PREVENT.:
ENGINEERING:
PUBLIC WORKS:
STRUCTURAL:
ACCESSIBILITY:
ELEVATOR:
As per Florida Ru
REVIEWED FOR CODE COMPLIANCE

DATE REVISION

DWG TITLE
PROPOSED ELEVATIONS

SCALE 1/8"=1'-0"

PROJECT NO

DATE

SHEET NUMBER
A-3.1

Project West 74

Project West

36

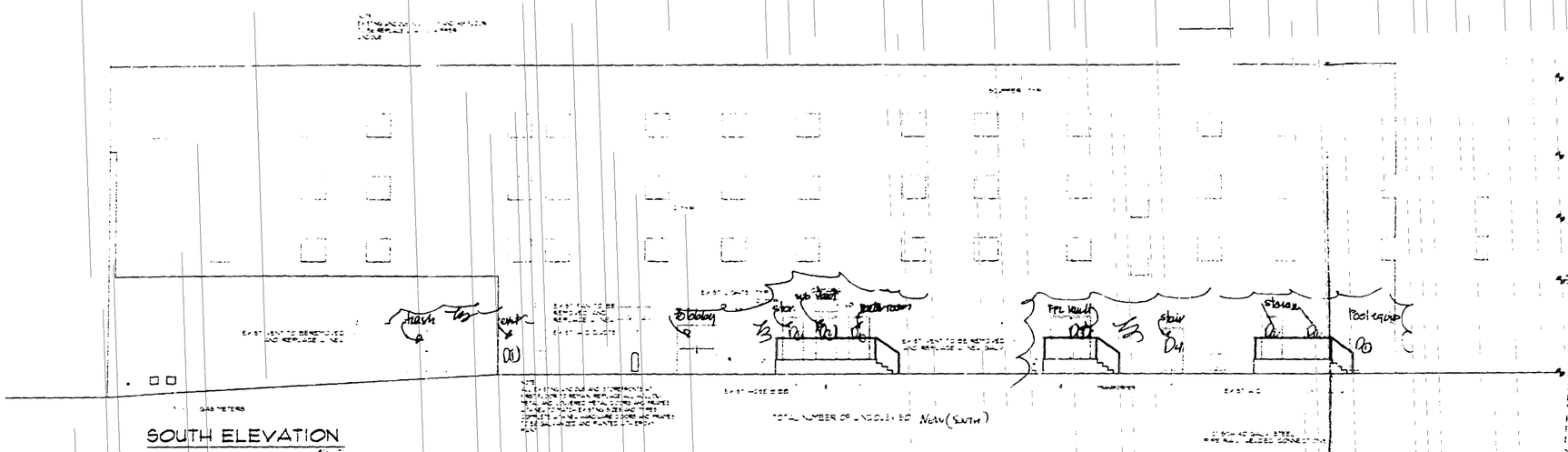
BEILINSON

LES BEILINSON AIA
AR 305775
790 N.W. 107 AVENUE
SUITE 308
MIAMI FL 33172-3196
TEL (305) 599-1950
FAX (305) 351-1740

ONLY WINDOWS & DOORS
B03004927

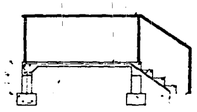
OFFICE COPY
CITY OF
APPROVED
BUILDING
ZONING
CERTIFICATE OF CONCURRENCY
PLUMBING
ELECTRICAL
MECHANICAL
FIRE DEPT.
ENGINEERING
PUBLIC WORKS
NATURAL RESOURCES
HOUSING & COMMUNITY DEVELOPMENT

(1½) 9/24/03.

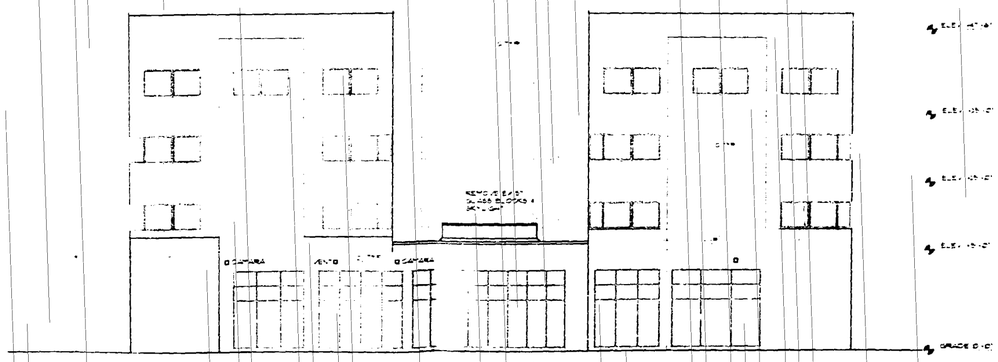


SOUTH ELEVATION

D① 01-0705.03 3'X6'
D② 01-0326.05 3'X6'
D③ 01-0326.05 6'X6'
D④ 01-0705.02 3'X6'



SECTION 2



EAST ELEVATION

GENERAL NOTES

OFFICE COPY
CITY OF
APPROVED
BUILDING
ZONING
CERTIFICATE OF CONCURRENCY
PLUMBING
ELECTRICAL
MECHANICAL
FIRE DEPT.
ENGINEERING
PUBLIC WORKS
NATURAL RESOURCES
HOUSING & COMMUNITY DEVELOPMENT

South
East

CRYSTAL BEACH CLUB
540 COLLINS AVENUE
MIAMI BEACH, FL 33141

DATE	REVISION

DWG TITLE
SOUTH ELEVATION
EAST ELEVATION

SCALE 1/8"=1'-0"
PROJECT NO 0303.37
DATE 9-25-02
SHEET NUMBER A-3.2

36

BEILINSON

LES BEILINSON AIA ARCHITECT
[illegible]

NOTE: ALL WINDOWS ARE IMPACT RATED WITH COLOR MATCH
UNLESS OTHERWISE NOTED

D1 D2 D3 D4 D1 D1 D1

D1 01-C125.CS 34"x64"
D2 01-C326.CS 34"x64"
D3 01-C126.CS 64"x64"
D4 01-C225.CS 34"x64"
A C1-1019.CS 48"x48" 7/16 LAM
D 02-C127.CS 34"x49"
Mull C2-C123.CS 15"x64" 7/16 LAM
E C2-C122.CS 15"x64"
FC2 C127.CS 72"x48" 7/16 LAM

SOUTH ELEVATION

STR. MEAT @ CORNERS

EAST ELEVATION

OFF

CRYSTAL BEACH CLUB
[illegible]

DATE REVISION

DWG TITLE: SOUTH ELEVATION
EAST ELEVATION

SCALE: 1/8"=1'-0"
PROJECT NO: 2001.37
DATE: 9.25.02
SHEET NUMBER: S-01

GOPMAN
Consulting Engineers, Inc
[illegible]

SEP 08 2003

36

NOTE: ALL WINDOWS ARE IMPACT OR CASEMENTS UNLESS OTHERWISE NOTED

SCALE 1/16"=1'-0"

A 48x48 C1-1019.00
B 36x48 C1-1019.03
C 36x48 C2-0122.05
E 13x48 C2-0127.05
G 37x48 C2.0122.05
Mull 13x48 C2-0123.06

3/16 tempered glass

STR. MEAN CEILING

Structure Lines

BAY WINDOWS

MULL TYP.

EAST

STR. MEAN CEILING

→ EAST

Windows D

SCALE 1/16"=1'-0"

BEILINSON

LES BEILINSON AIA
710 N.W. 107 AVENUE
MIAMI, FL 33172
TEL (305) 594-3180
FAX (305) 551-1740

OFFICIAL
CITY OF MI
APPROVED
THE
BUILDING:
ZONING:
DRB/HPB:
CONCURRENCY:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINE
9/20/07

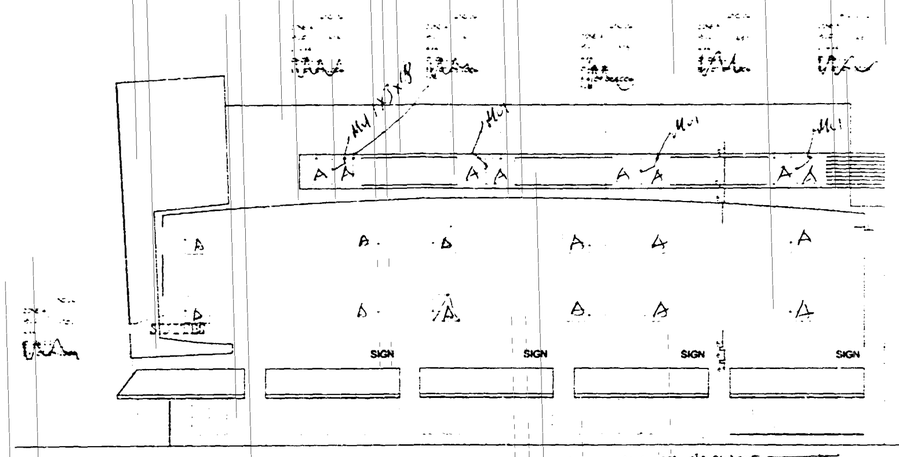
SC20 4927

CRYSTAL BEACH CLUB
9665 COLLINS AVENUE
MIAMI BEACH, FL 33141

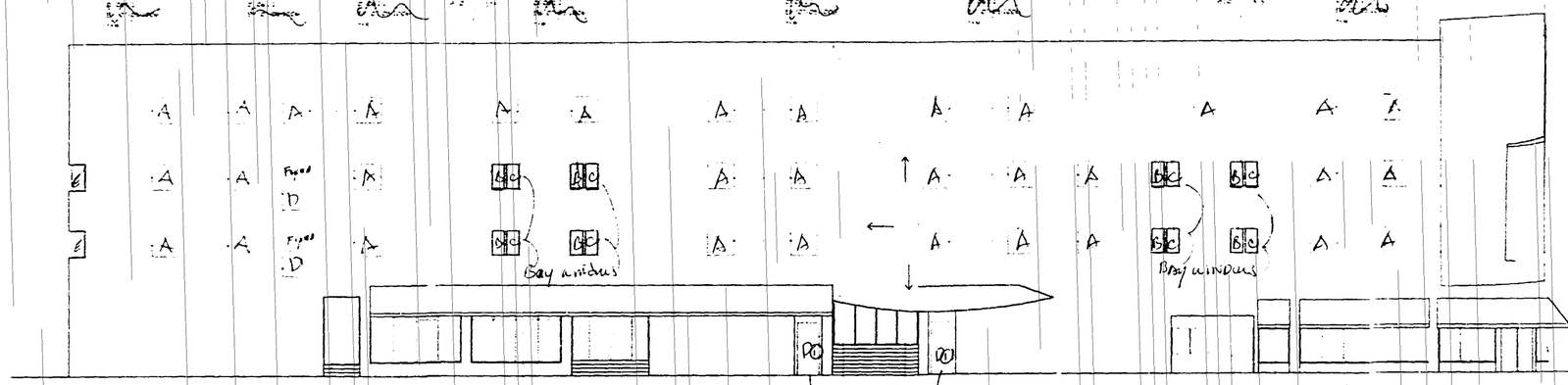
GOPMAN
Consulting Engineers, Inc.
191 Alhambra Plaza - Penthouse
Coral Gables, Florida 33134
Ph. (305) 460-3618 Fax (305) 460-3619
Miami-Dade Broward
CA Cert. No. 26000172 CA Cert. No. 26000172
SEP 06 2007

DATE	REVISION
DWG TITLE	SOUTH ELEVATION EAST ELEVATION
SCALE	1/8"=1'-0"
PROJECT NO	2007.17
DATE	9/25/07
SHEET NUMBER	S-02

36



PROPOSED WEST ELEVATION



PROPOSED NORTH ELEVATION

JOB COPY
CITY OF MIA
APPROVED
FOR

BUILDING
ZONING
DRB/HPB
CONCURRENCY
PLUMBING
ELECTRICAL
MECHANICAL
FIRE PREV.
ENGINEERING
PUBLIC WKS.
VIEW ORD.
ACCESS
ELEVATOR

As per Florida
REVIEWED FOR

BEILINSON
LES BEILINSON AIA
AR 0007776
700 N.W. 107 AVENUE
SUITE 300
MIAMI FL 33172-3100
TEL (305) 599-1200
FAX (305) 557-1740
beilinsonarchitecture.com

CRYSTAL BEACH CLUB
6969 COLLINS AVENUE
MIAMI BEACH, FL 33141

DATE	REVISION
DWG TITLE	WEST ELEVATION NORTH ELEVATION
SCALE	1/8"=1'-0"
PROJECT NO	2001.37
DATE	9-25-02
SHEET NUMBER	S-03

GOPMAN
Consulting Engineers, Inc.
192 Northeast 168th Street
North Miami Beach, FL 33162
Ph (305) 493 3819 Fax (305) 770-0867
Design Investigation Inspection Reports

SEP 0 8 2003

36

LASON

PERMIT #

B0305175

51

JUL-31-03 08:22AM FROM-MIAMIDADE TECH REV [illegible] T-217 P.02/08 F-956

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1561
(305) 375-2901 • FAX (305) 375-2908

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Senergy, Inc.
3688 St Johns Bluff road, South
Jacksonville, FL 32224-2616

Your application for Notice of Acceptance (NOA) of Senerflex Wall System (Impact Resist Substrate) under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure test product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform as the approved product, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be assumed by the manufacturer.

ACCEPTANCE NO.: 01-1220.04
EXPIRES: 11/05/2006

Raul Rodriguez
Chief, Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 01/13/2003

Internet Home Page address: http://www.buildingcodeonline.com

Senergy, Inc.

ACCEPTANCE No.: 01-1220.04
APPROVED: January 18, 2002
EXPIRES: November 5, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. **SCOPE**
1.1 This renewal Notice of Acceptance (NOA) No. 99-1005.03, which was issued on April 7, 2000 to renewal the approval of a Senergy Exterior Insulation and Finish System, as described in Section 2 of this NOA, designed to comply with the South Florida Building Code (SFBC), 1996 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. **PRODUCT DESCRIPTION**
2.1 The Senergy Exterior Insulation and Finish Systems and its components shall be constructed in strict compliance with the following documents: Drawing No. not number, Sheets 1 through 4 of 4, titled "Typical Details for Senerflex Wall System over Impact Resistant Substrate," prepared by manufacturer, dated 9/28/98 and revised on 11/20/00, signed and sealed by Walter Til'at, P.E., bearing the Miami-Dade County Product Control renewal stamp with the NOA number and renewal date by the Miami-Dade County Product Control Division. This document shall hereinafter be referred to as the approved drawings.

3. **LIMITATIONS**
3.1 This system is not to be used on horizontal surfaces exposed to weather except as a soffit, as it is intended to be used on wall systems only.

4. **INSTALLATION**
4.1 The Senergy EIFS and its components shall be installed in strict compliance with the approved drawings.
4.2 Hurricane protection systems (shutters) the installation of this unit will not require a hurricane protection system.

5. **LABELING**
5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. **BUILDING PERMIT REQUIREMENTS**
6.1 Application for building permit shall be accompanied by copies of the following:
6.1.1 This Notice of Acceptance
6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Raul Rodriguez, Chief
Product Control Division

Senergy, Inc.

ACCEPTANCE No.: 01-1220.04
APPROVED: January 18, 2002
EXPIRES: November 5, 2006

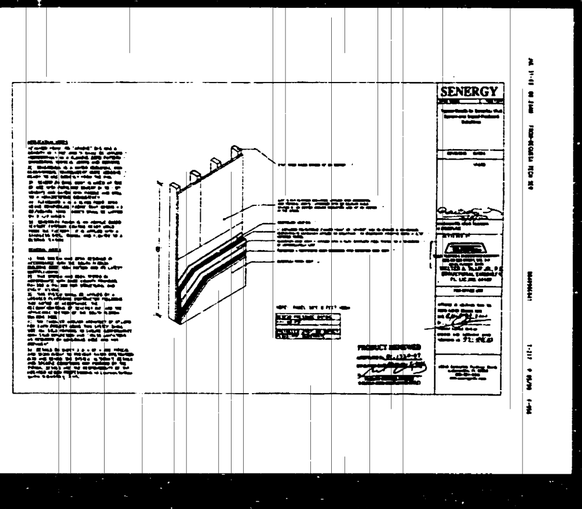
NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

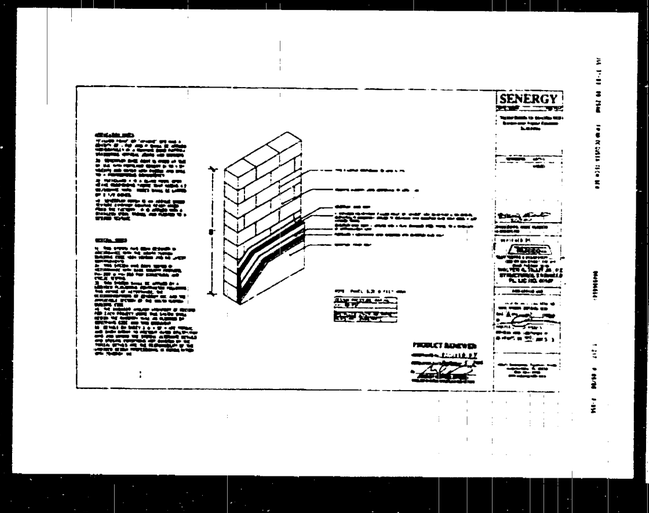
1. Renewal of this Acceptance (approval) must be considered after a renewal application has been filed and the original submitted documentation (including test supporting data, engineering documents) are no older than eight (8) years.
2. Any and all approved products must be per numbers and date [illegible] Products Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
   a) There has been a change in the South Florida Building Code affecting the evaluation of the product and the product is not in compliance with the code changes.
   b) The product is no longer the same product (identical) as the one originally approved.
   c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
   d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
   a) Unsatisfactory performance of this product or process.
   b) Misuse of this Acceptance as an endorsement of any product, its sales, advertising or any other purpose.
6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be duplicated in advertising. However, if this portion of the Notice of Acceptance is duplicated, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not retain the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

Raul Rodriguez, Chief
Product Control Division

51


SENERGY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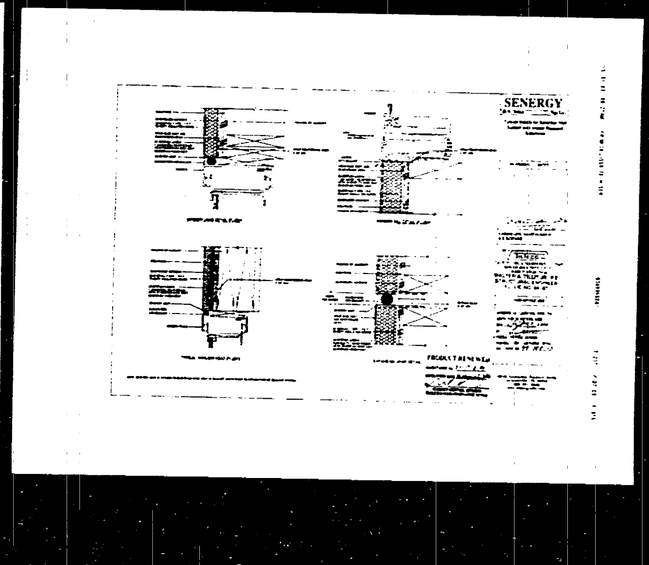
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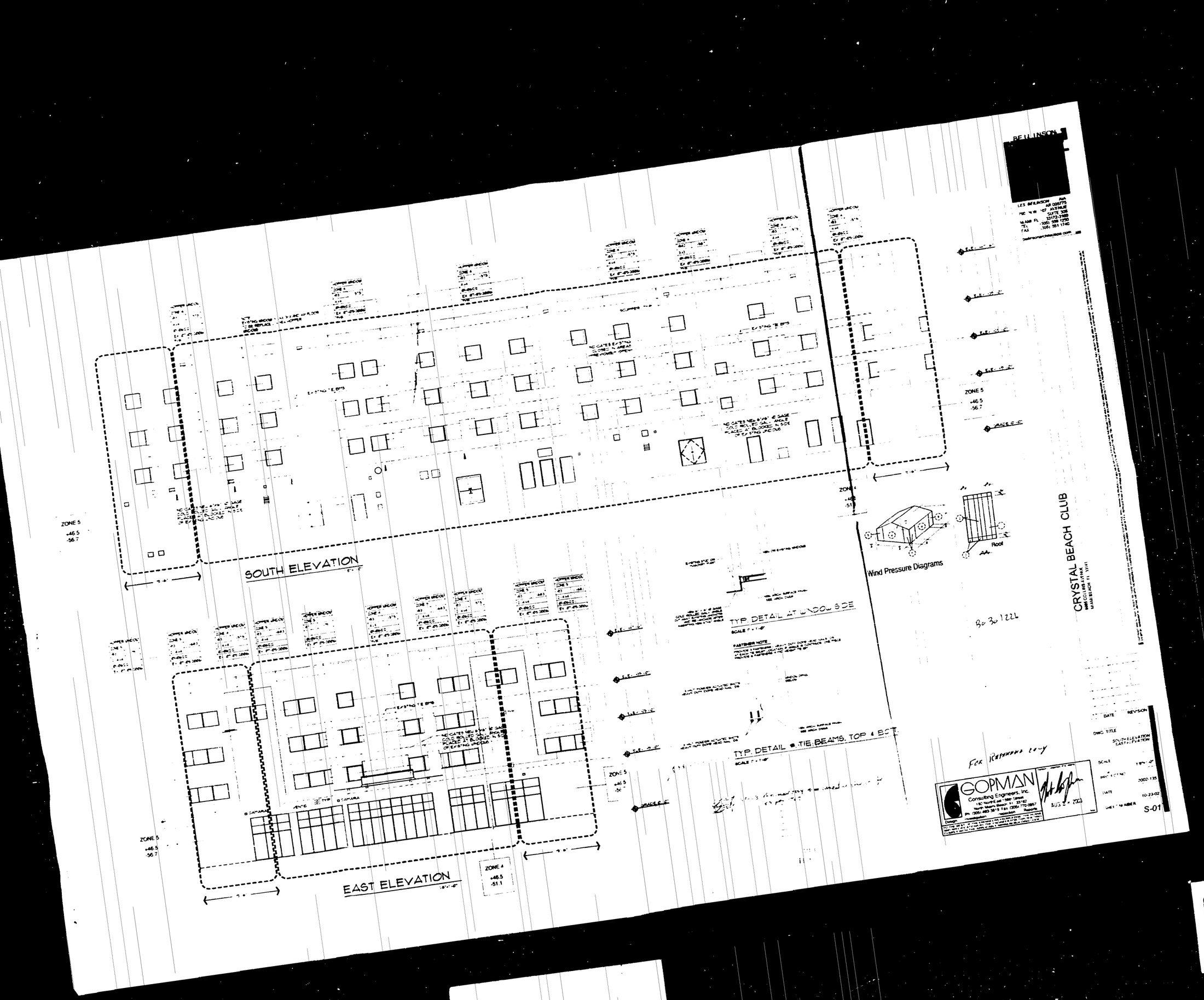
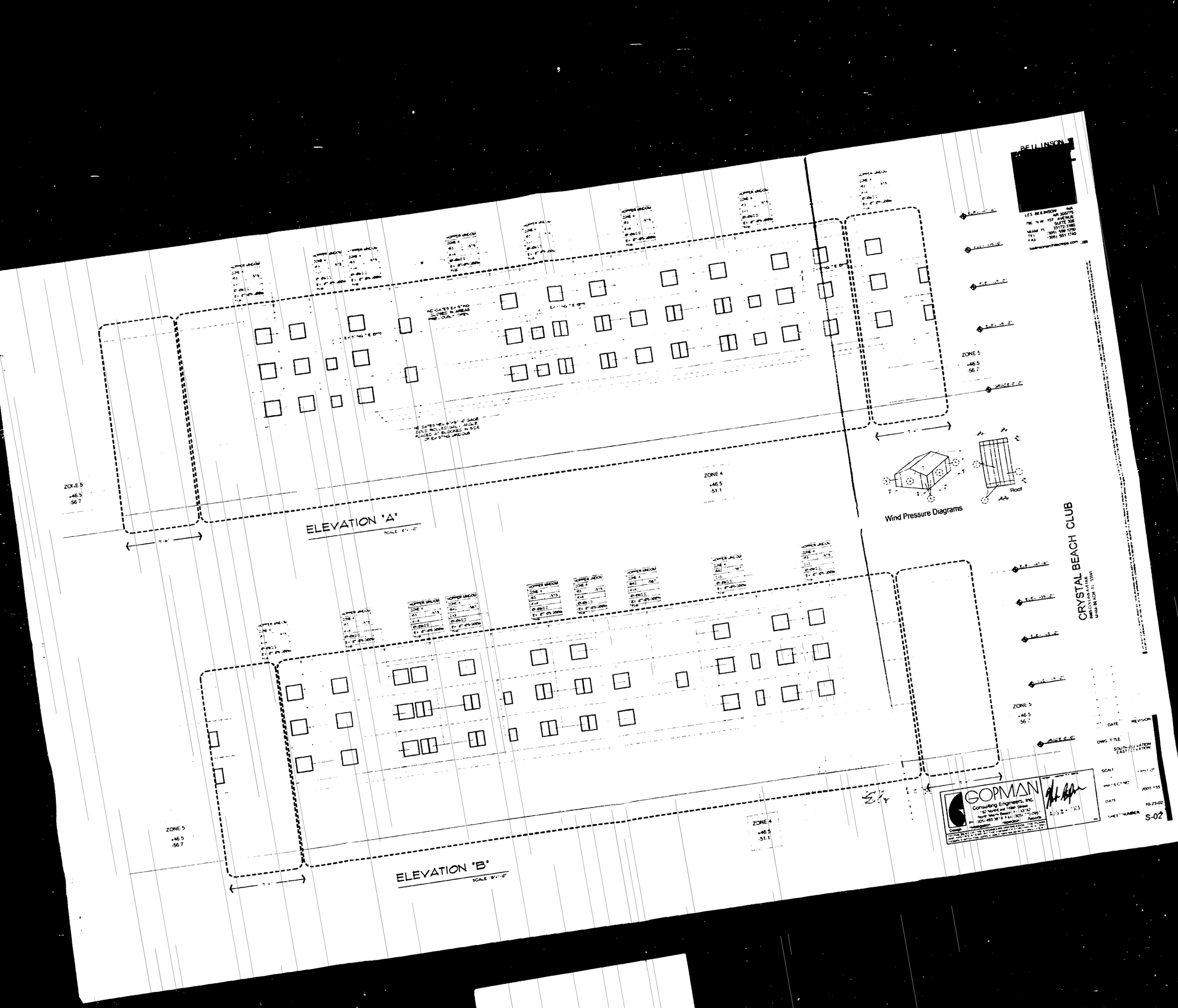
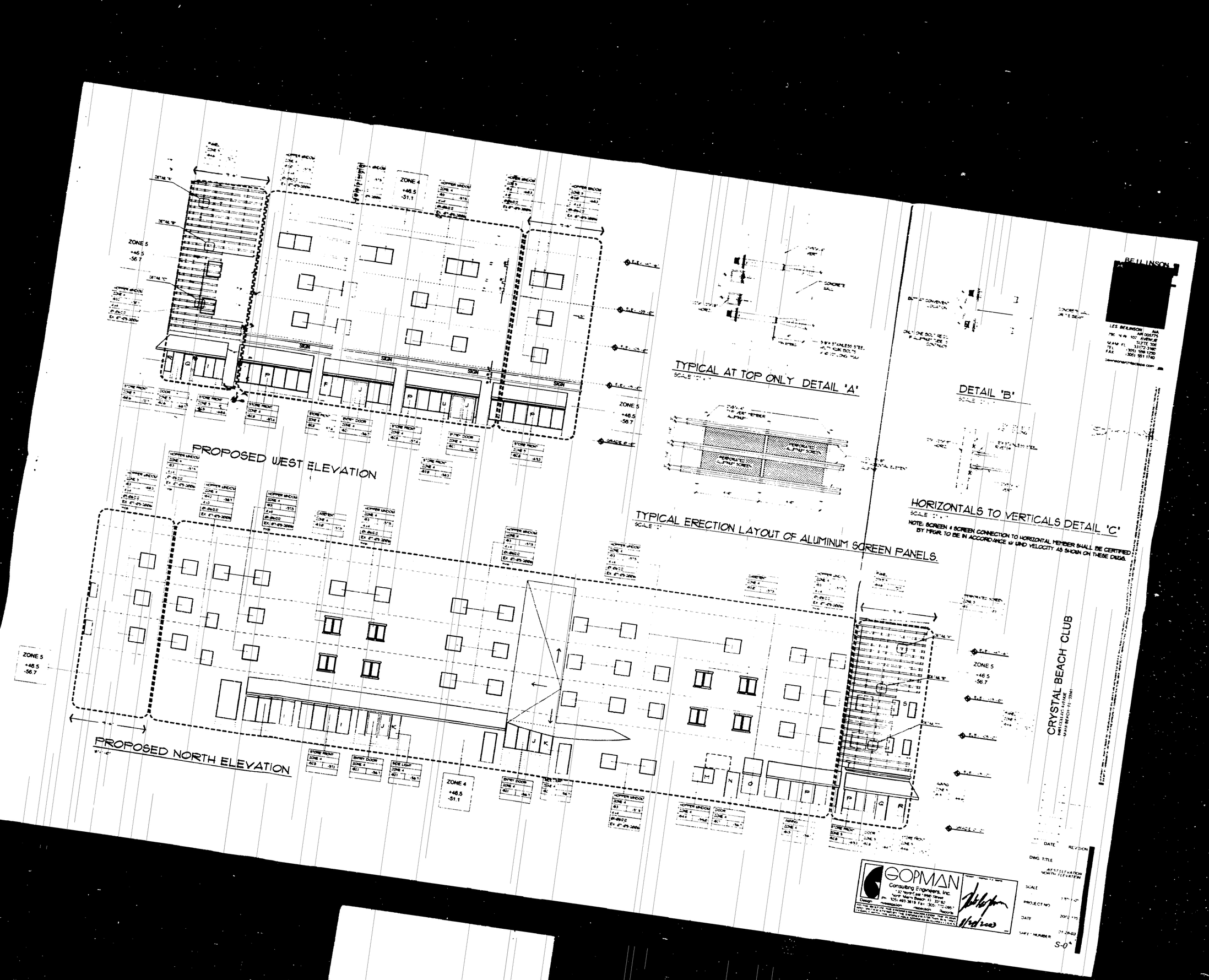

SOUTH ELEVATION
EAST ELEVATION
TYP. DETAIL AT WINDOW SIDE
TYP. DETAIL @ TIE BEAMS, TOP & BOTT
Wind Pressure Diagrams
Roof
ZONE 5
+46.5
-56.7
ZONE 4
+46.5
-51.1
CRYSTAL BEACH CLUB
GOPMAN
Consulting Engineers, Inc.
S-01
2002-135
10-23-02

51


ELEVATION 'A'
ELEVATION 'B'
ZONE 5
+46.5
-56.7
ZONE 4
+46.5
-51.1
Wind Pressure Diagrams
Roof
BELLINSON
CRYSTAL BEACH
GOPMAN
Consulting Engineers, Inc.
DWG TITLE
SOUTH ELEVATION
EAST ELEVATION
SCALE
DATE
10-23-02
S-02

51



PROPOSED WEST ELEVATION

PROPOSED NORTH ELEVATION

TYPICAL AT TOP ONLY DETAIL 'A'

TYPICAL ERECTION LAYOUT OF ALUMINUM SCREEN PANELS.

DETAIL 'B'

HORIZONTALS TO VERTICALS DETAIL 'C'

NOTE: SCREEN & SCREEN CONNECTION TO HORIZONTAL MEMBER SHALL BE CERTIFIED BY MFGR. TO BE IN ACCORDANCE W/ WIND VELOCITY AS SHOWN ON THESE DWGS.

BELLINSON

LES BELLINSON AIA
AR 0007
1110 N. 101 AVENUE
SUITE 330
HOLLYWOOD, FL 33019
TEL (305) 922-2980
FAX (305) 922-2981

CRYSTAL BEACH CLUB

DATE REVISION

DWG. TITLE
PROPOSED WEST ELEVATION
PROPOSED NORTH ELEVATION

SCALE 1/8"=1'-0"

PROJECT NO. 2002-115

DATE 07-29-03

SHEET NUMBER A-5.0

GOPMAN
Consulting Engineers, Inc.
Ph (305) 493-3815 Fax (305) 493-3825

51

LASON

PERMIT #

B0305255

09

M&T 30/951-2096

CITY OF MIAMI BEACH
Building Department
1700 Convention Ctr Drive, 2nd Floor
Miami Beach, Florida 33139
Inspections: (305) 673-7370 Office: (305) 673-7610

Building Work Permit

10-03-2003

Activity Number: B0305255

Status: APPLIED — Issued By: BURGARC

Site Address: 6985 COLLINS AV MBCH
Parcel #: 02110560010

Applied: 09/30/2003
Approved:
Completed:
To Expire:

Valuation: $1,073,256.00

Applicant: LATIMER CONSTRUCTION CORP
20255 NE 16 PL ACE
MIAMI FL 33179
305 655 0480

Property Owner: FIRST LEISURE CORP
2701 FUDICIANA BOULEVARD
KISSIMMEE FL 34746

Description: DEMOLITION, FIN. STUCCO AND ROOF, Roof Overlay
Inspector Area: Class/Cont. No.

DETAIL LIST

Alteration/Remodel Fee		
Alteration Building/Structures - Per Costs	$0.00	$0.00
Awning, Canopy, Patio Cover - Per Costs	$0.00	$0.00
Area Under Roof - RADON - Per Sq Ft	0	$0.00
Walk-Thru - Per Valuation	$0.00	$0.00
Repairs to Building/Structure - Per Costs	$0.00	$0.00
Roofing or Re-roofing - Per Sq Ft	0	$0.00
Windows/Doors - Per # of	0	$0.00
Signs 36-64 Wmax/Erect - Per Sq Ft	0	$0.00
Fence and/or Wall - Per Linear Feet	0	$0.00
Partial Demo (Struct, Sign, Wall) - Per Costs	$0.00	$0.00
Swimming Pool - Per Gallon	0	$0.00
Painting - Per Costs	$0.00	$0.00
Sandblasting - Per Costs	$0.00	$0.00
Paving - Per Sq Ft	0	$0.00
Concrete Slab - No Paving - Per Sq Ft	0	$0.00
Trees - Per # of	0	
Hedges - Per Linear Feet	0	
Groundcover - Per Sq Ft	0	
Landscaping Fee		$0.00
Other Fees		$0.00
Penalty Fee (If Applicable)		$0.00

[BMLDPRM]

Page 2

Activity Number: B0305255

Fire Safety Fee		
New Building or Addition - Per Sq Ft	0	$0.00
Storage/Industrial Bldg - F & F Occup - Per Sq Ft	0	$0.00
Greenhouse/Agriculture on Premises - Per Sq Ft	0	$0.00
Screen Enclosure/Tent on Premises - Per Sq Ft	0	$0.00
SS Underground Tanks/ App Shelter - Per #	0	$0.00
Construction not shown Above - Per Costs	$0.00	$0.00
Alt/Repair Building/Structure - Per Costs	$0.00	$0.00
Mooring Structure Fee		
Dock Area - Per Sq Ft	0	$0.00
Seawall - Per Linear Feet	0	$0.00
Boat Lifts, Davits, Hoist - Per # of	0	$0.00
Rental Mooring, Dock Piles - Per # of	0	$0.00
Marine Structure Alt/Repair - Per Costs	$0.00	$0.00
SFRC Compliance Surcharge		
New Const Add - Res/Multi Fam/Comm - Per Sq Ft	0	$0.00
New Const Add - Strg/Ind/Misc - Per Sq Ft	0	$0.00
Cost for Other Construction		$0.00
Training Fee		$0.00
Training Fee		$0.00
Signature Fee		
Additional Fees		$0.00
1st Reinspection		$0.00
Continued Reinspection - Per # of	0	$0.00
Building Asbestos Inspections - Per # of	0	$0.00
Change of Contractor Per # of	0	$0.00
Permit Extension - Per # of	0	
Residential Card		
Commercial Card		$0.00
Permit Card Replacements		
Low Plan Fee - SF		$0.00
Low Plan Fee - Other		$0.00
Overtime Inspection Fees		$0.00
Total of All Fees		$0.00
Total of Payments		$0.00
Balance Due		$0.00

[BMLDPRM]

CITY OF MIAMI BEACH
BUILDING DEPARTMENT
1700 CONVENTION CENTER DR
2ND FLOOR - CITY HALL
MIAMI BEACH FLORIDA 33139
305 673-7610

COMPLETE DESCRIPTION

DATE 10-03-20

PERMIT NUMBER **B0305255**

STATUS APPLIED

JOBSITE ADDRESS: **6985 COLLINS AV MBCH**

CONTRACTOR: LATIMER CONSTRUCTION CORP

OWNER: FIRST LEISURE CORP

DESCRIPTION

DEMOLITION NEDS STUCCO REMOVAL AFTER DEMOLITION OF CONCRETE STELL BUCK AND NEW WINDOWS WILL BE INSTALLED AS AWNINGS REPLACE WINDOWS (IMPACT) AND SLIDING MINI MACRESS AND SHUTTERS NEW RIGHT RELIEF CONCRETE ROOFING DRYWALL STUCCO, INSULATION, KNOCK DOWN, PAINTING INTERIOR WALL, FLOOR PROTECTION
PLUMBING ELECTRICAL DOORS

[BDESCDOC]

09

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
NORTH TOWER, FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1103
MIAMI, FLORIDA 33130-1561
TEL: 305-375-2901 FAX: 305-375-2908

CONTRACTOR LICENSING SECTION
TEL: 305-375-2277 FAX: 305-375-2278

CONTRACTOR EXAMINING SECTION
TEL: 305-375-2663 FAX: 305-375-2908

PRODUCT CONTROL DIVISION
TEL: 305-375-2901 FAX: 305-375-2908

PRODUCT CONTROL NOTICE OF ACCEPTANCE

United Steel Products Company
703 Rogers Drive (P. O. Box 80)
Montgomery ,MN 56069

Your application for Notice of Acceptance (NOA) of
USP Lumber Connectors
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and complete described herein, has been recommended for acceptance to the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure the product or material at any time from a jobsite or manufacturer's plant for quality control testing. In the product or material fails to perform in the approved manner, BCCO may revoke, modify or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0912.05
EXPIRES: 10/09/2005

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE:

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

RTS6
BCX05255
SW 4/6/01

APPROVED: 11/01/2001

Francisco J. Quintana, P.A.
Director
Miami-Dade County
Building Code Compliance Office

e:\win200\ pc2000\ temporal\ nocs acceptance cover page.doc

Internet mail address: permaster@buildingcodeonline.com Homepage: http://www.buildingcodeonline.com

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United Steel Products Company

ACCEPTANCE NO: 01-0912.05
APPROVED: NOV 01 2001
EXPIRES: 10/09/2005

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. **SCOPE**
1.1 This renews and revises the Notice of Acceptance No. 00-0913.07, which was issued on 12/07/2000. It approves wood connectors, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code, SFBC, 1994 Edition for Miami-Dade County. For the locations where the actual loads as determined by SFBC Chapter 23 do not exceed the design loads stated in the approved drawings.

2. **PRODUCT DESCRIPTION**
2.1 The **USP Wood Connectors** shall be fabricated and used in strict compliance with the following documents: Drawing No.: MDADE and sheets 1 of 1 titled "RT AND TA SERIES", prepared by United Steel Products Company, dated 10/06/00 with no revisions. The said drawings bear the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance Number and approval date by the Miami-Dade Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. **LIMITATIONS**
3.1 Allowable loads are for Southern Yellow Pine or better with a specific gravity of 0.55 and minimum cubic foot of 19 pcf or less.
3.2 Allowable loads are based on testing per ASTM D 1761 and calculations per National Design Specifications for Wood Construction, 1991 Edition & 1993 Errata.

4. **INSTALLATION**
4.1 The wood connectors shall be installed in strict compliance with the approved drawings.

5. **LABELING**
5.1 Each wood connector shall bear a permanent label with the manufacturer's name or logo, model number, and the following statement: "Miami-Dade County Product Control Approved".

6. **BUILDING PERMIT**
6.1 Application for Building Permits shall be accompanied by copies of the following:
6.1.1 This Notice of Acceptance.
6.1.2 Duplicate copies of the approved drawings as listed in Section 2 of this Notice of Acceptance clearly marked to show the particulars selected for the proposed installation.
6.1.3 Any other documentation required by the Building Official for the proposed wood connector installation, or these products.

United Steel Products Company

ACCEPTANCE NO: 01-0912.05
APPROVED: NOV 01 2001
EXPIRES: 10/09/2005

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance terminates it as compared to the original application as specified in Section 1 of the Notice of Acceptance, and any additional requirements, including revised supporting data, drawings and documents, that may be required by the Building Official at the time of renewal.

2. Any and all approved products shall be permanently labeled with the manufacturer's name or logo, model number, and the following statement: "Miami-Dade County Product Control Approved", unless exempted by the conditions of this Acceptance.

3. Revocation of Acceptance will occur if any of the following conditions are found to exist:
a) The product has been changed in such a way that it no longer complies with the South Florida Building Code and/or with the code changes.
b) The product is no longer the same product (identical as the one originally approved.
c) The Acceptance holder has failed to comply with any of the conditions listed in the Notice of Acceptance or the application of the product.
d) The engineer has changed, or presented a signed and sealed letter, report, document or other evidence that questions the engineering analysis or the engineering principles.

4. Any request for change in the material, process and/or manufacturing location of the product must be submitted to the Product Control Division for review and approval prior to implementation. Failure to notify the Product Control Division of any changes may result in revocation of this Acceptance.

5. Any misrepresentation, omission of relevant information or any false statement contained in the application for Acceptance, or in the supporting documents upon which Acceptance was based, shall be grounds for revocation of this Acceptance.

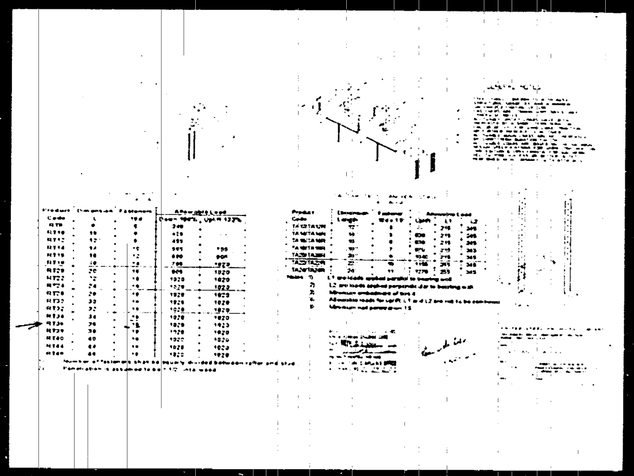
6. The Notice of Acceptance number must be displayed on the product's packaging. If the product is not packaged, the expiration date may be displayed in advertising literature. If the product is not packaged or displayed, the Notice of Acceptance is not valid for use. Misrepresentation of the Notice of Acceptance is grounds for revocation of this Acceptance as well as appropriate criminal charges. Unauthorized use of the Miami-Dade County Product Control Approval stamp is a violation of Florida Statutes and is punishable by fines and/or imprisonment.

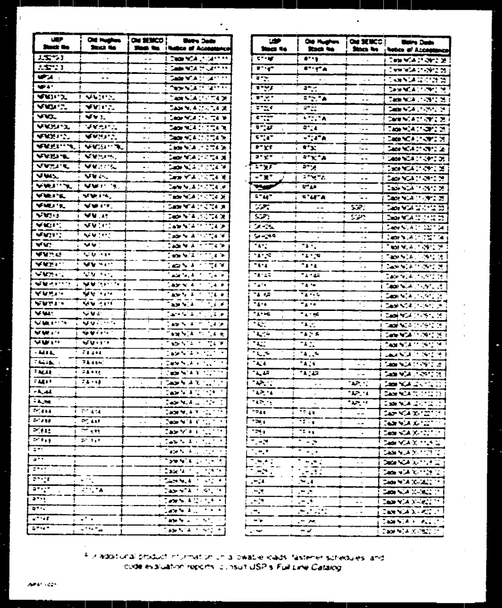
7. Revisions to this Acceptance will be issued if the product is updated to meet new code requirements. Revised Acceptances will be issued with a new expiration date.

8. This Acceptance is valid only for the pages listed in the Limitations.

END OF THIS ACCEPTANCE

09





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LSCT12-3			Dade NOA 91-0813.01
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MTA100-3	MTA100-3		Dade NOA 91-0813.01

For additional product information, available load, fastener schedules, and code evaluation reports, consult USP's Full Line Catalog.

GOPMAN CONSULTING ENGINEERS INC.

CRYSTAL BEACH CLUB.
WINDOW SUPPORTS

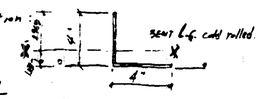
Design / Drawn / Checked / Date: 97.9

USING 10 gage cold rolled light gage steel
$t = .1292"$

design capacity: for wind resistance only.

$f_s = 50{,}000 \times .6 \times 1.33 = 40{,}000$ P.S.I. design value

Calculate Section:



$\Sigma M = 0.0$

A:	Ad
$4 \times .1292 = .4968$	$.4968 \times 2 = .9936$
$4 \times .1292 = .4968$	$.4968 \times .0621 = .0309$
.9936	1.0245

$\bar{y} = \frac{1.0245}{.9936} = 1.031"$

Σ_{x-x}: calculate I_{x-x}

$I = \frac{1.968^3 \times .1292}{12} = .271^{4}$ $\quad Ad^2 = 2 \times .1292 \times .984^2 = .5417^{4}$

$I = \frac{1.031^3 \times .1292}{12} = .011$ $\quad Ad^2 = 4 \times .1292 \times .515^2 = .033^{4}$

$I = \frac{4 \times .1292^3}{12} = \frac{.0006}{.2826}$ $\quad Ad^2 = 4 \times .1292 \times .385^2 = \frac{.466}{1.052}$

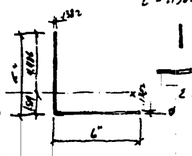
$I_{x-x} = 1.052 - .7826 = 1.335$
$S_{x-x} = 1.335 / 2.969 = .45^{in^3}$ NOT ENOUGH

09

GOPMAN CONSULTING ENGINEERS INC

CRYSTAL BEACH CLUB
WINDOW SUPPORTS
2

TRY w/ 6" x 6" 90° ∠ @ 16" o.c. thickness.
in accordance w/ AMERICAN STD WT of SHEET GAGE THICKNESS
t = .1382 galv., coated hot dipped.



EMD
A = 6 × .1382 = .829 in² Ad = .829 × 3 = 2.4876
A = 6 × .1382 = .829 Ad = .829 × 2.2% = .0179
Σ A = 1.658 Σ Ad = 2.5055
ȳ = 2.5055 / 1.658 = 1.514

CALCULATE I_{x-x}

$I = \frac{4.496^3 \times .1382}{12} = .1040$ $Ad^2 = 4.496 \times .1382 \times 2.293^2 = 3.189$

$I = \frac{1.514^3 \times .1382}{12} = .040$ $Ad^2 = 1.514 \times .1382 \times .757^2 = .120$

$I = \frac{6^3 \times .1382}{12} = .001$ $Ad^2 = 6 \times .1382 \times 1.995^2 = 1.731$

$\Sigma I = 1.081$ $\Sigma Ad^2 = 4.97$

$\Sigma I = 1.081 + 4.97 = 6.051$

COMPUTE $S_{x-x} = \frac{4.92}{4.496} = 1.11^{in^3}$ min. WIND LOAD @ 57.5 psf

57.5 = MAX LOAD CONDITION = 28.75 psf. MAX. SPAN = 10.0' (H to H)

$M = \frac{28.75 \times 10^2}{8} = 359.75^{in\#} = 29.98^{ft\#}$ $f_b = \frac{29.98}{1.11} = 27.01$ ksi < 24 ksi O.K.

GOPMAN CONSULTING ENGINEERS INC

CRYSTAL BEACH CLUB
WINDOW SUPPORTS
3

CHECKING FOR WIND LOAD IN ZONE 5 : (WIND W = 68.3 psf)

W = -68.3 × (6.5 × .5) = 222 #/' < 287.5

O.K. ZONE 5 SOUTHWEST CORNER

C.R. ZONE 5 SOUTHEAST CORNER

CHECK ZONE 5 NORTHWEST ELEVATION

8' × .5 × 63.5 = 254 #, < 287.5 #

DESIGN FASTENERS

FOR MAX. LOAD CONDITION - BASED ON 10' SPAN

V = P = 287.5 × 5' = 1438#

USING DS HILTI HEAVY DUTY DOUBLE HEAD NAIL

ALLOWABLE CAPACITY IN TENSION = 400 LBS.

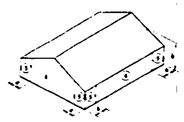
ALLOWABLE DESIGN CAPACITY = 400 × 1.33 = 532 LBS.

NO. FASTENERS NEEDED = 1438 / 532 = 2.7 = 3 NEEDED.

FLORIDA BUILDING CODE, 2001

DESIGN PRESSURES FOR OPENINGS

WALL OPENINGS



Powder Actuated Fastening Systems

3.2.3

DX Fastener Technical Data

Allowable Loads for Hilti Ceiling Clip Assemblies Installed in Normal-Weight Concrete

Ceiling Clip		Concrete Compressive Strength: 4000 psi (27.6 MPa)						6000 psi (41.4 MPa)					
		Tension		Shear		45 Degree		Tension		Shear		45 Degree	
		lb	kN	lb	kN	lb	kN	lb	kN	lb	kN	lb	kN
		195	0.9	230	1.0	240	1.1						
		225	1.0	270	1.2	280	1.2						
		270	1.2	430	1.9	360	1.6						
								85	0.4	170	0.8	90	0.4
		195	0.9	215	1.0	170	0.8	145	0.6	190	0.8	140	0.6
		195	0.9	280	1.2	210	0.9	195	0.9	240	1.1	160	0.7
		210	0.9	365	1.6	270	1.2	250	1.1	275	1.2	250	1.1
		210	0.9	365	1.6	360	1.6						
		300	1.3	470	2.1	360	1.6						

Notes: 1. Allowable values are for tensile and shear loads applied separately. 2. Allowable values are calculated using a factor of safety of 4.0. 3. Multiple fasteners are recommended for any application.

Allowable Loads in 3000 psi (20.7 MPa) Lightweight Aggregate Concrete

Description	Fastener Type	Shank Diameter in.	Min. Embedment in.	Fasteners Installed in Concrete: Tension lb	Fasteners Installed in Concrete: Shear lb	Fasteners Installed Through Metal Deck: Tension lb: Lower Flute	Fasteners Installed Through Metal Deck: Tension lb: Upper Chord	Fasteners Installed Through Metal Deck: Shear lb
Dome Head Nail		0.145		115	125	85	110	200
				135	225	130	155	280
Dome Head Nail		0.128		95	170	55	95	280
				130	215	130	165	280
Flat Head Nail		0.128		95	120	—	95	130
Slotted Hex Nail		0.157		75	75	25	35	110
Dome Head Nail		0.177		85	85	—	85	110
				115	115	—	115	110
		0.145		115	125	—	115	110
				115	125	—	115	110
Dome Head Nail		0.128		95	120	—	95	110
				115	125	—	115	110
		0.128		95	120	—	95	110
Dome Head Nail		0.157

WIND98 v2-8
Wind Load Design per ASCE 7-98
Design Wind Pressure - Open Buildings and Other Structures

Elev	Kz	Kzt	Qz	Kd	Wind Pressure based upon different Cf's (lb/ft^2)				
					Cf	Cf	Cf	Cf	Cf
ft			lb/ft^2	1.30	1.60	1.65	1.80	1.85	1.90
0	1.15	1.00	50.18	1.30	52.74	53.74	57.74	58.74	59.74
5	1.19	1.00	51.93	1.30	52.45	53.45	57.45	58.45	59.45
10	1.24	1.00	54.04	1.30	52.45	53.45	57.45	58.45	59.45
15	1.28	1.00	55.80	1.30	54.15	55.15	59.27	60.29	61.31
20	1.31	1.00	57.12	1.30	55.43	56.45	60.67	61.70	62.74
25	1.34	1.00	58.43	1.30	56.71	57.74	62.07	63.11	64.16
30	1.36	1.00	59.30	1.30	57.56	58.60	63.00	64.05	65.11
35	1.38	1.00	60.17	1.30	58.41	59.46	63.92	64.98	66.04
40	1.40	1.00	61.04	1.30	59.26	60.32	64.85	65.92	66.98

Note: * User must select all site factors from the appropriate tables, and enter all in this table

WIND98 v2-8
Wind Load Design per ASCE 7-98
Table 6-11: Force Coefficients for Solid Signs

At Ground Level[1]		Above Ground[1]	
w/h	Cf	B/M	Cf
<=1.0	1.2	<=16	1.2
5	1.3	20	1.3
8	1.4	30	1.4
10	1.5	40	1.5
20	1.75	45	1.75
30	1.85	50	1.85
>=40	2	>=60	2

Notes: 1. Signs with openings comprising less than 30% of gross area are considered solid signs
2) Signs where distance from ground to bottom edge is less than 0.25 times vertical dimension are considered at ground level
w = Width of rectangle, h = Height, M = Larger dimension of sign, N = Smaller dimension of sign

Table 6-12: Force Coefficients Open Signs and Lattice

Solidity Ratio	Flat-Sided	Cf Round Members	
(e)	Members	D <= 37 ft	D > 37 ft
<=0.1	1.6	1.2	0.8
0.2	1.8	1.3	1.0
>=0.3	2.0	1.4	1.2

Notes: 1. Signs with openings comprising 30% or more of gross area are considered open signs
e = ratio of solid area to gross area
D = diameter of typical round member

WIND98 v2-8
Wind Load Design per ASCE 7-98

User Input Data	
Structure Type	
Basic Wind Speed, V	146 mph
Structure Category	
Exposure	
Short Nat Frequency, n1	Hz
Overall Structure Ht, Hz	ft
Width Perp. to Wind, B	ft
Width Parallel to Wind, L	ft
Damping Ratio, beta	

Calculated Parameters
Importance Factor, I

Table C6-4 Values

Calculated Parameters	
Type of Structure	
Hz g/rt, basic Horizontal Dirn	Yes
Flexible Structure	No

Gust Factor Category I: Rigid Structures - Simplified Method	
Quick*	For rigid structures: Nat Freq > 1 Hz, use 0.85
Gust Factor Category II: Rigid Structures - Complete Analysis	
Zm	
Iz	
Lzm	
Q	
Gust2	
Gust Factor Category III: Flexible or Dynamically Sensitive Structures	
Vmod	
N1	
Rn	
Rh	
RB	
RL	
R	
Gust3	

Gust Factor Summary	
Main Wind-force resisting system:	Components and Cladding
Gust Factor Category	Gust Factor Category
Gust Factor, G	Gust Factor, G

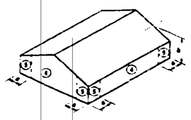
09

FLORIDA BUILDING CODE, 2001

DESIGN PRESSURES FOR OPENINGS

STRUCTURES INTERNATIONAL LLC

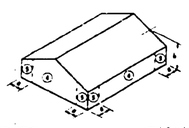
WALL OPENINGS

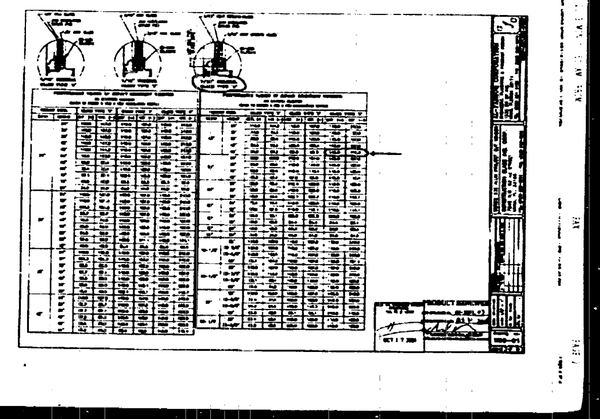


FLORIDA BUILDING CODE, 2001

DESIGN PRESSURES FOR OPENINGS

STRUCTURES INTERNATIONAL LLC





CITY OF MIAMI BEACH
Miami Beach, Florida 33139

RECEIPT OF PAYMENT

(This is not a permit it is a receipt only)

10-03-2003

Receipt: P0107[illegible]349 — Activity Number: [illegible] — Status: APPROVED

Date Applied: 01/06/2003 — Date Issued: 03/26/2003 — Entered By: BUILDERC
Date Completed: — Date Expired: 09/22/2003

Site Address: 6905 COLLINS AV MIBCH — Balance Due: $0.00
Parcel #: 32110060910 — Valuation: $1,073,256.00

Applicant: LATIMER CONSTRUCTION CORP — Owner: FIRST LEISURE CORP
20225 NE 16 PLACE — 2795 POINCIANA BOULEVARD
MIAMI FL 33179 — KISSIMMEE FL 34746
305-655-8289

Description: STUCCO RPR NON STRUCTURAL & PAINTING & MINOR ELEC

Payments made for this receipt:

[illegible]

Current Payment Made to the Following Items:

[illegible]

Account Summary for Fees and Payments:

Account Description	Account Code	Prev. Fee	Paid	Prev. Pmts	Cur. Pmts
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MUNICIPALITIES PLAN REVIEW

11/6/2003 10:30:30AM — 20031106100923844

PROJECT: CRYSTAL BEACH CLUB REMODEL — ORIGIN:
REVIEWER: SYLVIEW — REVIEW TYPE: PLAN REVIEW — RECEIVED: 11/6/20[illegible]
CONTACT INFORMATION: MR MATTHEW SPENADEL — FOLIO: 0[illegible]
6905 COLLINS AVE
MIAMI BEACH, FL 33141
3054550232

COI: N — Water Abutting?: N — Shell: [illegible]
COI #: NONE — WH #: n/a — Seattle Yards: N
COI Zone: [illegible] — Sewer Abutting?: N — Pit2 Existing Bldgs: 0
COI Comments: N — BE #: n/a — Pit2 Proposed Bldgs: 0
Connected on Pile/Pt: N — Gravity or Forces: N
Current use of property: n/a
Improvement: NONE
Description of Work:
REMODELING EXIST BEACH CLUB

COMMENTS:

11-06-2003 By: sylvera
SENT CLIENT TO AIR SECTION TODAY W/ PLANS

11-06-2003 10:30:22 By: fiebkin
review of plans, asbestos survey reviewed and on file no suspect material to be disturbed during renovation, ok to permit

TYPE	DESCRIPTION	STATUS	DATE /TIME	BY	FEE
1. REVIEWS					
	DEPT: MINOR REVISION				50.00
	DEPT: AIR/MINOR SOURCES	A	11/6/2003 10:29:30AM	fiebkin	0.00
2. CRSIGNOFFS					
	N/A		12/31/1899 12:00:00AM		0.00
3. HOLDS					
	N/A		12/31/1899 12:00:00AM		0.00

Project Name: New Roof

Location: Crystal Beach
By: M.S.
Start Date: 1/15/2004
Comments:

Gopman Consulting Engineers, Inc.
192 N.E. 168 Street
N. Miami Beach, FL 33162
(305) 463-3819

My Documents\Gopman Projects\WIND-BUILDING.wpd

C1241.07

09

Local Information

Wind Dir.	Exposure
1	C
2	C
3	C
4	C

Basic Wind Speed: 146 mph

Topography: None

Optional Factors

This project uses load combinations from ASCE 7.

Wind Loads on Structures Copyright © 2000 SDG, Inc

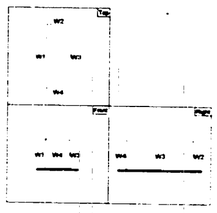
Section - Main Section

Enclosure Classification: Enclosed
Building Category: II

Wall	Length(ft)	Overhang(ft)
1	102.0	0.0
2	37.5	0.0
3	102.0	0.0
4	37.5	0.0

Wall Height: 47.6 ft
Parapet Height: 2.5 ft

Roof Shape: Flat



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Section - 1

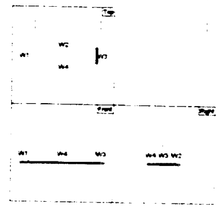
Enclosure Classification: Enclosed
Building Category: II

Connected to: Main Section
Connected to wall: W1
Position on W1: 0 ft

Wall	Length(ft)	Overhang(ft)
1	38.0	0.0
2	162.0	0.0
3	38.0	0.0
4	162.0	0.0

Wall Height: 47.6 ft
Parapet Height: 2.5 ft

Roof Shape: Flat



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Section - 2

Enclosure Classification: Enclosed
Building Category: II

Connected to: Main Section
Connected to wall: W1
Position on W1: 64 ft

Wall	Length(ft)	Overhang(ft)
1	38.0	0.0
2	177.0	0.0
3	38.0	0.0
4	177.0	0.0

Wall Height: 47.5 ft
Parapet Height: 2.5 ft

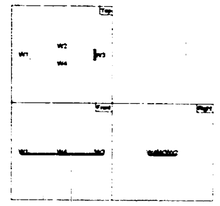
Roof Shape: Flat

Section - 3

Enclosure Classification: Enclosed
Building Category: II

Connected to: Main Section
Connected to wall: W1
Position on W1: 38 ft

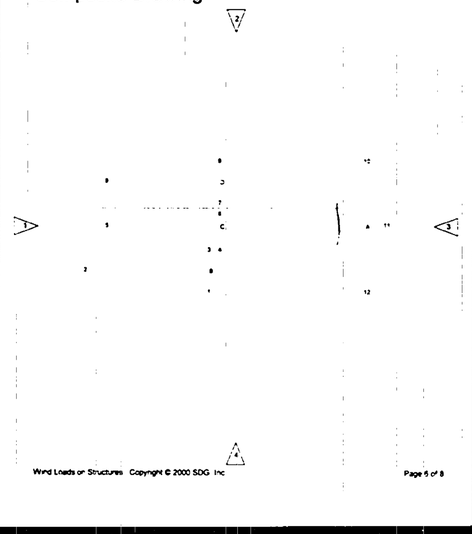
Wall	Length(ft)	Overhang(ft)
1	26.0	0.0
2	162.0	0.0
3	26.0	0.0
4	162.0	0.0



Wall Height: 15 ft
Parapet Height: 0 ft

Roof Shape: Flat

Composite Drawing



09

Components and Cladding Input

Component Description	Walls/Roof	Surface Label	Zone	Span(ft)	Effective Width(ft)	Area(sqft)
Roof a	Roof	A	(all)			3825
Roof b	Roof	B	(all)			4212
Roof c	Roof	C	(all)			9156
Roof d						

Components and Cladding Output

Component Description	Surface	Zone	h(ft)	θ(deg)	GCp	-GCp	ExtPress(psf)	Net w/ +GCp (psf)	Net w/ -GCp (psf)
Roof a	A	1	47.6	50.2	0.20	0.18	10.0	1.0	19.1
			47.6	50.2	-0.90		-45.2	-54.2	-36.1
		2	47.6	50.2	0.20		10.0	1.0	19.1
			47.6	50.2	-1.10		-55.2	-64.3	-46.2
		3	47.6	50.2	0.20		10.0	1.0	19.1
			47.6	50.2	-1.10		-55.2	-64.3	-46.2
Roof b	B	1	47.6	50.2	0.20	0.18	10.0	1.0	19.1
			47.6	50.2	-0.90		-45.2	-54.2	-36.1
		2	47.6	50.2	0.20		10.0	1.0	19.1
			47.6	50.2	-1.10		-55.2	-64.3	-46.2
		3	47.6	50.2	0.20		10.0	1.0	19.1
			47.6	50.2	-1.10		-55.2	-64.3	-46.2
Roof c	C	1	47.6	50.2	0.20	0.18	10.0	1.0	21.5
			47.6	50.2	-0.90		-45.2	-54.2	-30.1
		2	47.6	50.2	0.20		10.0	1.0	21.5
			47.6	50.2	-1.10		-55.2	-64.3	-46.2
		3	47.6	50.2	0.20		10.0	1.0	19.1
			47.6	50.2	-1.10		-55.2	-64.3	-46.2
Roof d	D	1	47.6	50.2	0.20	0.18	10.0	1.0	19.1
			47.6	50.2	-0.90		-45.2	-54.2	-36.1
		2	47.6	50.2	0.20		10.0	1.0	19.1
			47.6	50.2	-1.10		-55.2	-64.3	-46.2
		3	47.6	50.2	0.20		10.0	1.0	19.1
			47.6	50.2	-1.10		-55.2	-64.3	-46.2

GOPMAN CONSULTING ENGINEERS, INC
192 N.E. 10th Street • North Miami Beach, FL 33162
PHONE: (305) 463-3215 FAX: (305) 945-8647

PROJECT: CRYSTAL BEACH
SUBJECT: WALL STUDS.

USING 60 LBS. / S.F. WIND LOAD (SEE CALCULATIONS FOR LOADS)

FOR STUDS @ 16" o/c : w = 60 × 1.33 = 79.8 SAY 80 LBS./FT.

USING MAX. HEIGHT OF 10.0'

V = 5 × 80 = 400 LBS.

$M = \frac{wL^2}{8} = 80 \times 12 = 12{,}000$ "#

USING MIN. 16 ga. $\therefore f_y = 30{,}000$ #/"²

$S_{REQ'D} = \frac{12{,}000}{30{,}000} = .4$ "³

USE 4" CFS STUD $S_{x-x} = .482$ · 16 ga. STUDS

09

Allowable Loads in Steel

Description	Fastener Type	Shank Diameter in. (mm)	3/8" (9.5mm) Tension lb. kN	3/8" (9.5mm) Shear lb. kN	3/4" (19.0mm) Tension lb. kN	3/4" (19.0mm) Shear lb. kN	1" (25.4mm) Tension lb. kN	1" (25.4mm) Shear lb. kN	1 1/2" (38.1mm) Tension lb. kN	1 1/2" (38.1mm) Shear lb. kN	3/4" (19.0mm) Tension lb. kN	3/4" (19.0mm) Shear lb. kN
Dome Head Knurled Shank	X-DKH	0.145 (3.7)	110 (0.49)	230 (1.02)	455 (2.02)	455 (2.02)	595 (2.65)	595 (2.65)	595 (2.65)	595 (2.65)	595 (2.65)	595 (2.65)
1/4" Threaded Stud Knurled Shank	DWH	0.145 (3.7)	—	—	446 (1.98)	446 (1.98)	595 (2.65)	595 (2.65)	595 (2.65)	595 (2.65)	545 (2.42)	545 (2.42)
Heavy Duty Dome Head Nail Knurled Shank	EDS	0.177 (4.5)	—	—	335 (1.49)	595 (2.65)	675 (3.00)	675 (3.00)	595 (2.65)	675 (3.00)	1035 (4.60)	595 (2.65)
3/8" Threaded Stud Knurled Shank	DWH	0.295 (7.5)	—	—	668 (2.97)	758 (3.37)	1025 (4.56)	1068 (4.75)	1195 (5.31)	1548 (6.89)	668 (2.97)	1068 (4.75)
Dome Head Nail Smooth Shank	X-DM	0.145 (3.7)	—	—	335 (1.49)	595 (2.65)	515 (2.29)	595 (2.65)	675 (3.00)	675 (3.00)	755 (3.36)	595 (2.65)
Heavy Duty Dome Head Smooth Shank	DS	0.177 (4.5)	—	—	335 (1.49)	755 (3.36)	675 (3.00)	675 (3.00)	755 (3.36)	755 (3.36)	675 (3.00)	675 (3.00)
Shrouded Head Nail	EDT/EDNT	0.145 (3.7)	—	—	335 (1.49)	535 (2.38)	335 (1.49)	535 (2.38)	335 (1.49)	675 (3.00)	455 (2.02)	535 (2.38)
Dome Head Nail	X-C	0.125/0.145 (3.2/3.7)	145 (0.65)	445 (1.98)	335 (1.49)	535 (2.38)	335 (1.49)	535 (2.38)	335 (1.49)	535 (2.38)	535 (2.38)	535 (2.38)
Smooth Shank												
Dome Head Nail	X-U	0.145 (3.7)	335 (1.49)	375 (1.67)	535 (2.38)	535 (2.38)	535 (2.38)	535 (2.38)	535 (2.38)	535 (2.38)	535 (2.38)	535 (2.38)
Knurled Shank												
Heavy Duty Dome Head Smooth Shank	X-HS	0.177/0.145 (4.5/3.7)	—	—	—	—	—	—	—	—	795 (3.54)	595 (2.65)

1. Allowable values are for the fastener only; connected parts must be investigated separately.
2. The fastener point must penetrate thru the steel to obtain allowable values, except as noted (see note 7).
3. Allowable values are based on a safety factor of 5.1.
4. Multiple fasteners are recommended for increased reliability.
5. Refer to "Fastener Length Selection" in the Technical Manual or page 15 for explanation of L, L1, and L2.
6. Length based on ASTM A36 (mild steel material, except X-U, which is based on ASTM A572 Grade 50 steel.
7. Values for 3/8" (9.5mm) shank are based on penetration of 1".

3.2.4 Listings/Approvals

Factory Mutual
W1.30/2.1W10.30/12.4/W1, and EW1.30/10/12.1 fasteners for corrugated steel hangers.
1"dia.+ ENPS, ENPN2, ENPS5, 6 ENPS15 and 17 EDNW22 fasteners for attaching steel roof deck.

International Conference of Building Officials (ICBO)
Report No. 2388 "Hilti Low Velocity Direct Fastening"
Report No. 1290 "Fastening of Prestressed Slab and Interior Plate Arm Hangers"
Report No. 4373 "Steel Deck Diaphragms" X-MP2, ENPN2, ENPS5

Underwriters Laboratories
W1.30/2.1W10.30/12.4/W1, and EW1.30/10/12.1 fasteners for approved steel hangers.
ENPS 21,15, ENPN2 21,15, ENPS5 5/12, ENPS6, 8 ENPS15 and 17 ENPS22 fasteners for attaching steel roof deck.

City of Los Angeles (COLA)
Report No. 2388 "Hilti Low Velocity Direct Fastening"
Report No. 24874 "Hilti DX Systems Fastening"

Southern Building Code Congress International (SBCCI)
Report No. "Hilti Systems Fastening"

Federal Specifications
FF-N-836C
Hilti DX tools and fasteners are listed/approved by other building code organizations. Building departments or jurisdictions. For the latest information on our listings, contact Hilti.

3.2.5 Powder Actuated fastener specification

Material: Modified AISI 1061 steel, austempered Hardness 42-48 Rockwell C
Tensile Strength = 290,000 PSI. Yield Strength = 235,000 psi
Shear Strength = 180,000 PSI.

Plating: Zinc plating is a thickness of 5 microns in accordance with ASTM B633 SC 1, Type III.

Allowable Loads for Hilti Ceiling Clip Assemblies Installed in Light-Weight Concrete – Metal Deck, lb (kN)

Ceiling Clip Assembly	3000 psi Concrete Compressive Strength							
	Lower Flute				Upper Flute			
	Tension		Shear		Tension		Shear	
	Normal	Sloped	Normal	Sloped	Normal	Sloped	Normal	Sloped
CC47/CF47	60 (0.27)	221 (1.01)	259 (1.17)	155 (0.70)	165 (0.74)	215 (0.97)	295 (1.32)	295 (1.32)
CC27/CF27	60 (0.27)	29 (0.13)	259 (1.17)	140 (0.63)	130 (0.58)	305 (1.36)	315 (1.40)	315 (1.40)
CC21/CF21	60 (0.27)	36 (0.16)	259 (1.17)	236 (1.05)	165 (0.74)	305 (1.36)	395 (1.76)	395 (1.76)
CC21/NL/HD7	75 (0.33)	240 (1.07)	140 (0.63)	140 (0.63)	165 (0.74)	305 (1.36)	240 (1.07)	240 (1.07)
CC27/NL/HD	130 (0.58)	240 (1.07)	259 (1.17)	259 (1.17)	240 (1.07)	295 (1.32)	295 (1.32)	295 (1.32)
CC27/NL/HD7	165 (0.74)	305 (1.36)	305 (1.36)	305 (1.36)	295 (1.32)	295 (1.32)	445 (1.98)	445 (1.98)
CC21/NL/HD-DX Nails	305 (1.36)	570 (2.54)	295 (1.32)	295 (1.32)	295 (1.32)	570 (2.54)	395 (1.76)	395 (1.76)

Notes: 1. Allowable values are for the fastener only; connected parts must be investigated separately.
2. Allowable values are for fasteners installed in concrete having the designated compressive strength at the time of installation.
3. Allowable values are based on a safety factor of 5.1.
4. Multiple fasteners are recommended for increased reliability.

Allowable Loads in Concrete Masonry Units

Description	Fastener Type	Shank Diameter in. (mm)	Min. Embedment in. (mm)	Hollow CMU				Grouted CMU			
				Face		Side/Top Joint		Face		Side/Top Joint	
				Tension lb. (kN)	Shear lb. (kN)	Tension lb. (kN)	Shear lb. (kN)	Tension lb. (kN)	Shear lb. (kN)	Tension lb. (kN)	Shear lb. (kN)
Dome Head Nail	X-DK	0.145 (3.7)	1 (25)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
Dome Head Nail	X-U	0.125/0.145 (3.2/3.7)	1 (25)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
Flat Head Nail	X-C	0.125 (3.2)	1 (25)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
1/4" (6.3mm) Threaded Stud	DW	0.295 (7.5)	1 (25)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
Shrouded Head Nail	EDT/EDNT	0.145 (3.7)	1 (25)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
Heavy Duty Dome Head Nail	X-HS	0.177 (4.5)	1 (25)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			2 (50)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			3 (75)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			4 (100)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			5 (125)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			6 (150)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			7 (175)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			8 (200)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
Dowel	X-DW	0.295 (7.5)	1 (25)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			2 (50)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			3 (75)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			4 (100)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			5 (125)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			6 (150)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			7 (175)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			8 (200)	75 (0.33)	95 (0.42)	75 (0.33)	95 (0.42)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
Heavy Duty Dome Head Nail	X-HS	0.177 (4.5)	1 (25)	—	—	—	—	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			2 (50)	—	—	—	—	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			3 (75)	—	—	—	—	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			4 (100)	—	—	—	—	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			5 (125)	—	—	—	—	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			6 (150)	—	—	—	—	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			7 (175)	—	—	—	—	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
			8 (200)	—	—	—	—	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)

Notes: 1. Allowable values are for the fastener only; connected parts must be investigated separately.
2. Allowable values are based on a safety factor of 5.1.
3. Allowable values are based on 4 x shank diameter edge distance.
4. Multiple fasteners are recommended for increased reliability.

HILTI
3.2.3/3.2.4/3.2.5

Allowable Loads in Steel

Description	Fastener Type	Shank Diameter in. (mm)
Dome Head Knurled Shank	X-DKH	0.145 (3.7)
1/4" Threaded Stud Knurled Shank	DWH	0.145 (3.7)
Heavy Duty Dome Head Nail Knurled Shank	EDS	0.177 (4.5)
3/8" Threaded Stud Knurled Shank	DWH	0.295 (7.5)
Dome Head Nail Smooth Shank	X-DM	0.145 (3.7)
Heavy Duty Dome Head Nail Smooth Shank	DS	0.177 (4.5)
Shrouded Head Nail	EDT/EDNT	0.145 (3.7)
Dome Head Nail	X-C	0.125/0.145 (3.2/3.7)
Smooth Shank		
Dome Head Nail	X-U	0.145 (3.7)
Knurled Shank		
Heavy Duty Dome Head Nail Smooth Shank	X-HS	0.177/0.145 (4.5/3.7)

1. Allowable values are for the fastener only; connected parts must be investigated separately.
2. The fastener point must penetrate thru the steel to obtain allowable values, except as noted (see note 7).
3. Allowable values are based on a safety factor of 5.1.
4. Multiple fasteners are recommended for increased reliability.

3.2.4 Listings/Approvals

Factory Mutual
W1.30/2.1W10.30/12.4/W1, and EW1.30/10/12.1 fasteners for corrugated steel hangers.
1"dia.+ ENPS, ENPN2, ENPS5, 6 ENPS15 and 17 EDNW22 fasteners for attaching steel roof deck.

International Conference of Building Officials (ICBO)
Report No. 2388 "Hilti Low Velocity Direct Fastening"
Report No. 1290 "Fastening of Prestressed Slab and Interior Plate Arm Hangers"
Report No. 4373 "Steel Deck Diaphragms" X-MP2, ENPN2, ENPS5

Weld and Fastener Tables

Suggested design loads for screw connections, pounds.

Steel Thickness (Gauge)	Screw Size							
12								
14								
16								
18								
20								

NOTES:

Suggested design loads for Powder Driven fasteners in concrete

TABLE A
Suggested capacity in allowable aggregate concrete pounds.

TABLE B
Suggested bearing capacity when used to connect gage thickness steel, pounds.

Suggested design loads in pull-out or shear for Powder driven fasteners in structural steel, pounds.

Steel Thickness (Gauge)	Screw Size							
12								
14								
16								
18								
20								

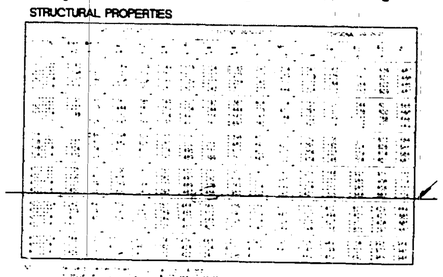
Suggested spacing, edge distance and minimum steel thickness for Powder driven fasteners in structural steel

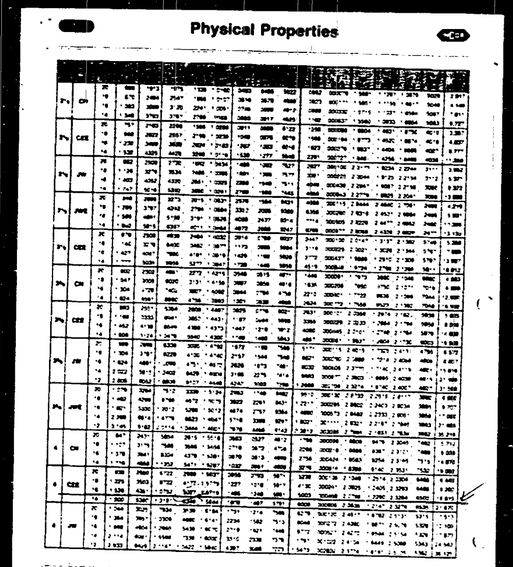
Steel Gage	Design Value							
12								
14								
16								
18								

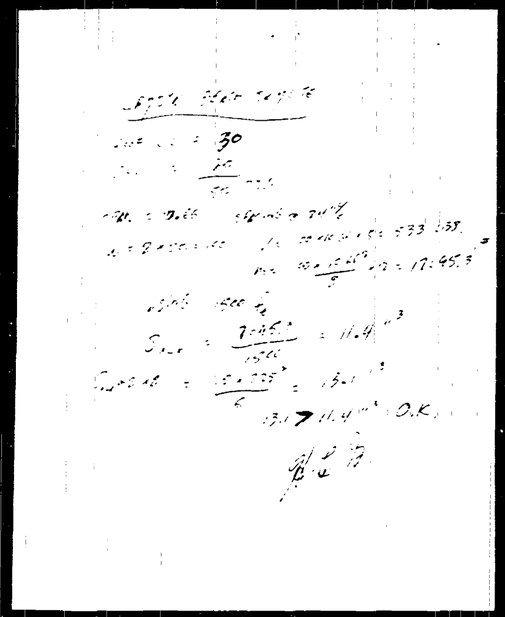
Technical Assistance - Welding

CC SECTION

STRUCTURAL PROPERTIES







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TEL (305) 599 1230
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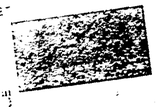
bellinsonarchitecture.com

HISTORIC DISTRICT

HIBISCUS AVENUE

71st STREET



SC 30525

SITE PLAN

PUBLIC WORKS
PLAN REVIEW NOTICE
Phone: 305-673-7080 Fax 305-673-7028
THIS PLAN REVIEW CONSTITUTES APPROVAL FOR OBTAINING BUILDING PERMITS ONLY
All construction shall be after all requirements of the right-of-way and all easements, required by Miami Public Works Department permit #238 is acquired.
Permit Requirements: Proof of meeting sidewalk area compliance
NOTICE: Prior to processing of sidewalk cafe(s) fees will be required prior to the issuance of the certificate of occupancy.
Approved as per the CC CO of the release of bonds.
Approved Reviewed By [signature] Date 10-07-03

SC 30525

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING: [signature] 11/21/04
ZONING:
ORIGINAL:
FINAL CLEARANCE:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
PUBLIC WORKS:
STRUCTURAL:
ACCESSIBILITY:
CITY:

DATE	REVISION

DWG TITLE: SITE PLAN

SCALE: 3/32"=1'-0"

PROJECT NO: 2001.37

DATE: 9.26.03

SHEET NUMBER: A-1

CRYSTAL BEACH CLUB
6865 COLLINS AVENUE
MIAMI BEACH, FL 33141

ROOF PLAN

09

EXISTING ELECTRICAL ROOM

INTERIOR IMPROVEMENTS TO BE REMOVED

EXISTING BUILDING

INTERIOR IMPROVEMENTS TO BE REMOVED

FIRST FLOOR PLAN

1/8" = 1'-0"

N

WALL SECTION

DETAIL

Plaque location

SOUTH BEACH

CRYSTAL BEACH CLUB
540 COLLINS AVENUE
MIAMI BEACH, FL 33141

FIRST FLOOR PLAN

DATE REVISION

DWG TITLE 1ST FLOOR PLAN

SCALE 1/8"=1'-0"

PROJECT NO 2001-37

DATE 9.25.02

SHEET NUMBER A-2

09

LES WILKISON AIA
AR 0007573
780 N.W. 102 AVENUE
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MIAMI FL 33172-3149
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FAX (305) 561 1740

09

60

CRYSTAL BEACH CLUB

4th FLOOR PLAN

60

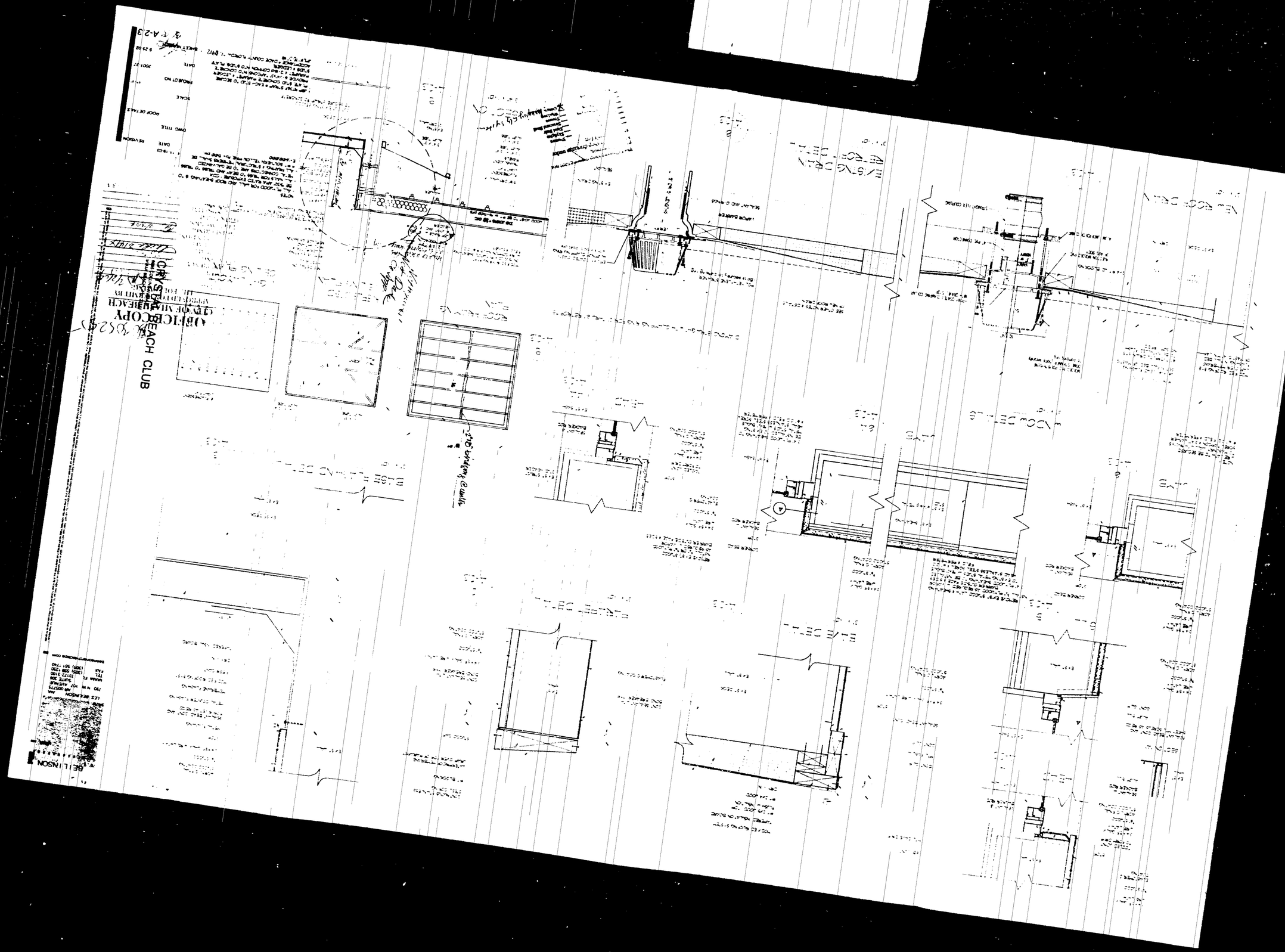
CRYSTAL BEACH CLUB

DETAILED ROOF PLAN

ROOF PLAN

A-22

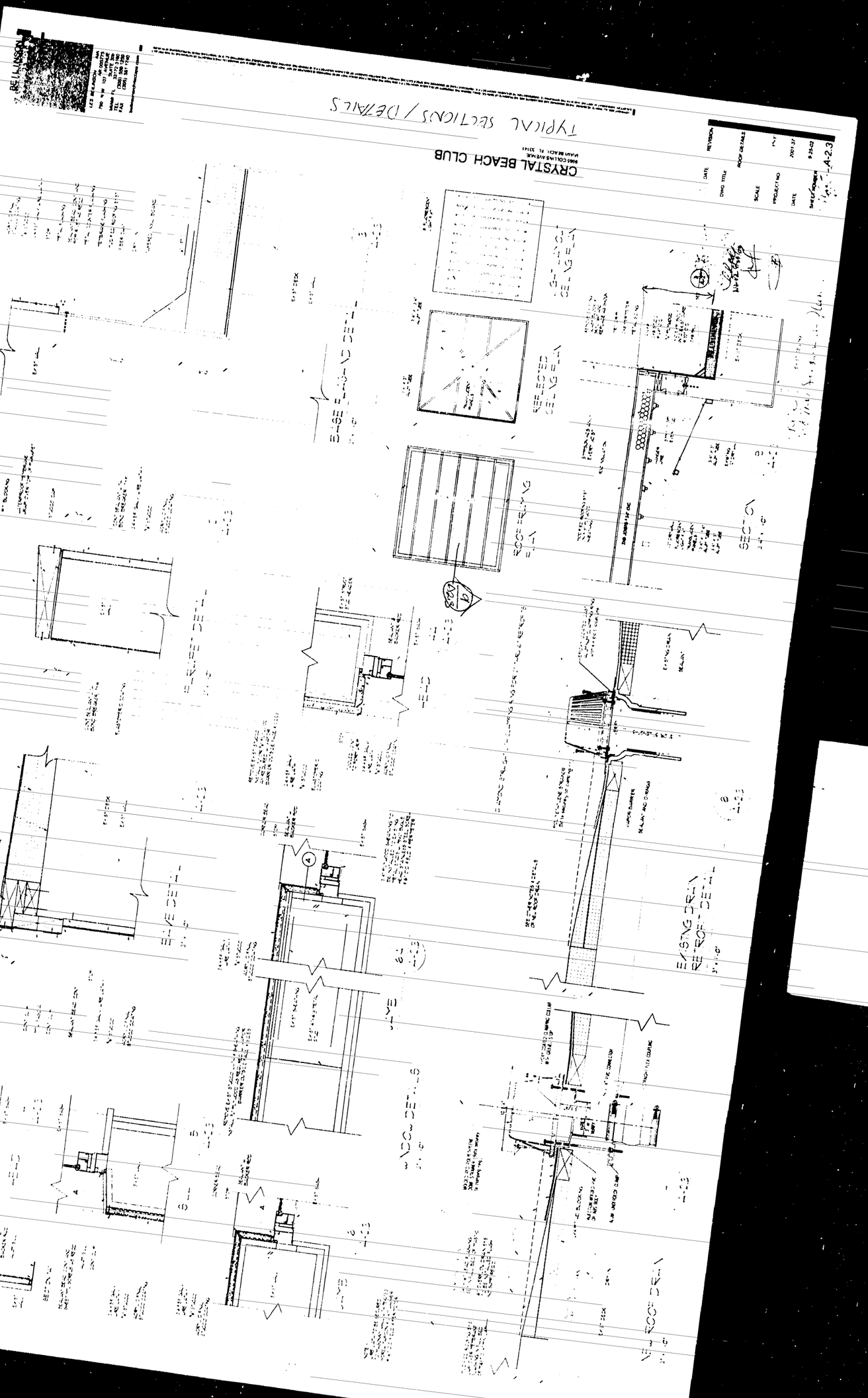
60



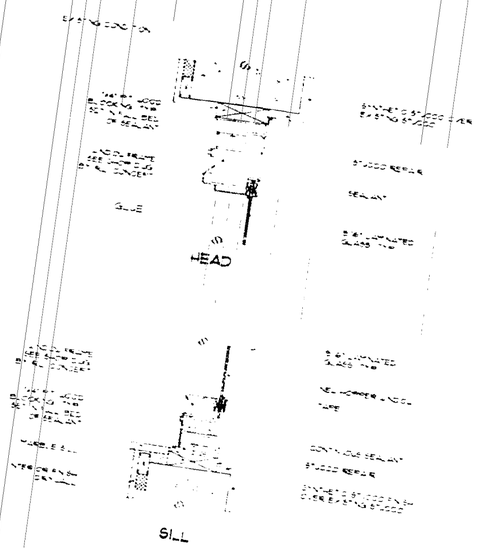
TYPICAL SECTIONS / DETAILS

CRYSTAL BEACH CLUB

A2.3


EXISTING CMU PARAPET WALL
EXISTING CMU PARAPET WALL
EXISTING CMU PARAPET WALL

WINDOW INSTALLATION TOLERANCES N.T.S.



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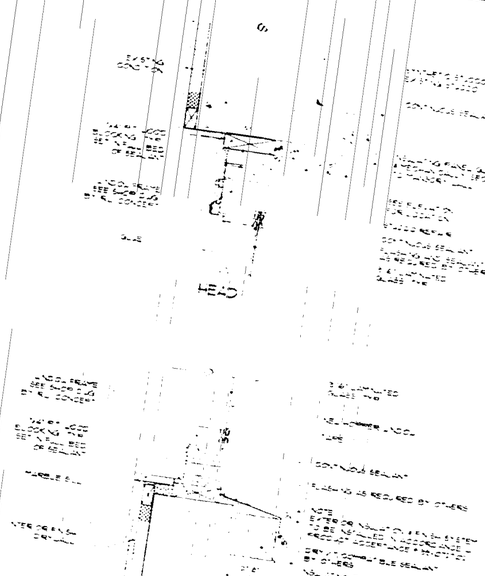

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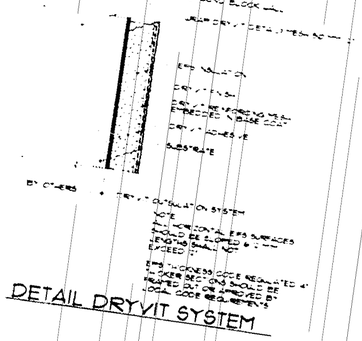
EGRESS WINDOW NOTES



DETAIL DRYVIT SYSTEM

JAMB DETAILS N.T.S.

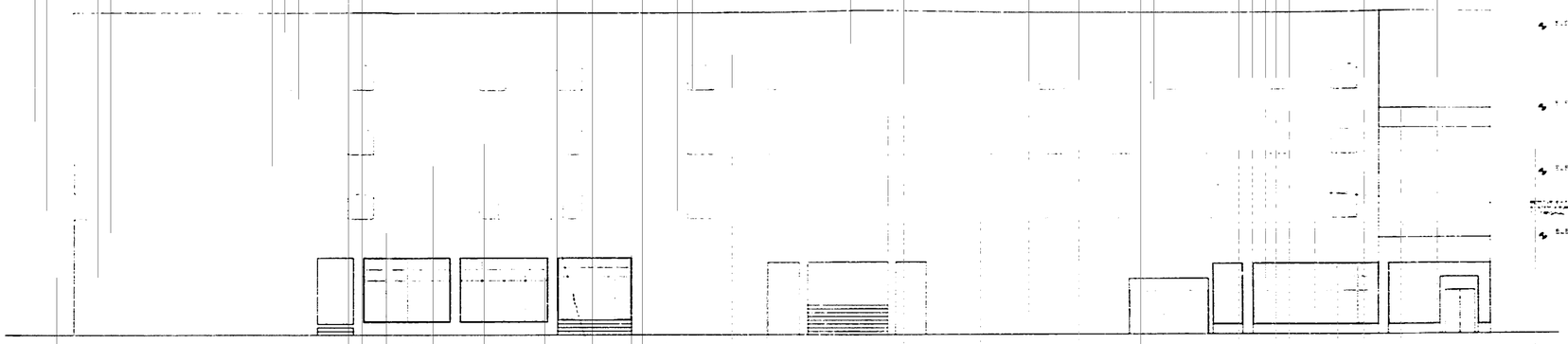
BELLINSON

CRYSTAL BEACH CLUB
1900 COLLINS AVENUE
MIAMI BEACH, FL 33141

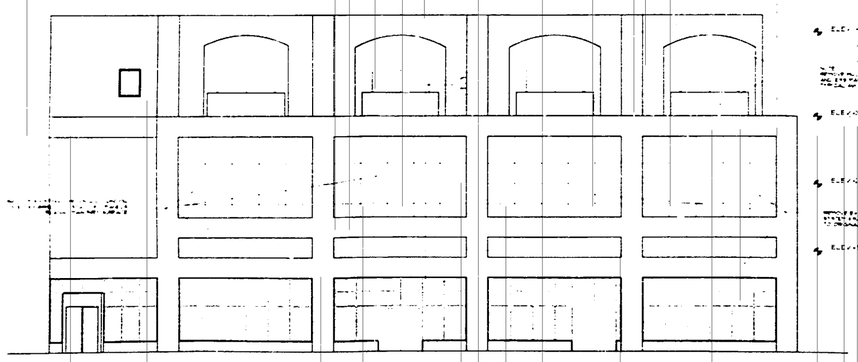
TYPICAL DETAILS

DATE	REVISION
DWG TITLE	CONSTRUCTION DETAILS
SCALE	NOTED
PROJECT NO	2001.37
DATE	9-25-02
SHEET NUMBER	A-2.4

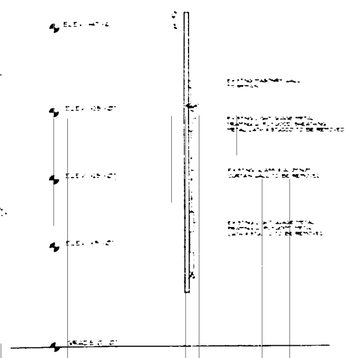
09



EXISTING NORTH ELEVATION



EXISTING WEST ELEVATION



SECTION 2

BEILINSON

LES BEILINSON AIA
AR 0007
780 N.W. 107 AVENUE
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MIAMI FL 33172-3180
TEL (305) 599-1282
FAX (305) 557-1740
beilinsonarchitects.com

CRYSTAL BEACH CLUB
8985 COLLINS AVENUE
MIAMI BEACH, FL 33141

DATE	12.05.03
REVISION	
DWG. TITLE	EXISTING ELEVATIONS
SCALE	1/8" = 1'-0"
PROJECT NO.	2001.37
DATE	9.25.02
SHEET NUMBER	A-3

09

EXISTING NORTH ELEVATION

EXISTING WEST ELEVATION

BEILINSON

LES BEILINSON AIA
AR 0007?3
780 N.W. 101st AVENUE
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MIAMI FL 33172-3180
TEL (305) 599-1909
FAX (305) 561-1740

CRYSTAL BEACH CLUB
MID-BLOCK BETWEEN
1500 & 1545 COLLINS AVENUE
MIAMI BEACH FL 33141

EXIST ELEV N, W

COPY
MIAMI BEACH
PERMIT BY
FOLLOWING:

DATE REVISION

DWG TITLE
EXISTING ELEVATIONS

SCALE

PROJECT NO.

DATE

SHEET NUMBER
A-3

09

PROPOSED NORTH ELEVATION

PROPOSED WEST ELEVATION

SECTION 1

BELLINSON

LES BELINSON AIA
AR 0008772
FLORIDA
MIAMI FL 33172-3168
TEL (305) 598-1500
FAX (305) 591-1740

CRYSTAL BEACH CLUB
9801 COLLINS AVENUE
MIAMI BEACH, FL 33141

DATE	REVISION

DWG TITLE
PROPOSED ELEVATIONS

SCALE 1/8"=1'-0"
PROJECT NO 2001.37
DATE 6-25-02
SHEET NUMBER A-3.1

09

EAST ELEVATION

SOUTH ELEVATION

SECTION 2

CRYSTAL BEACH CLUB

6985 COLLINS AVENUE
MIAMI BEACH, FL 33141

NEW WINDOW ELEV. & WALLS. E, S

SHEET NUMBER A-3.2

60

CRYSTAL BEACH CLUB

6885 COLLINS AVENUE
MIAMI BEACH, FL. 33141

BELL UNSON

DATE
REVISION

DWG. TITLE
ELEVATIONS A & B

SCALE
1/8"=1'-0"

PROJECT NO
2001.37

DATE
6-25-02

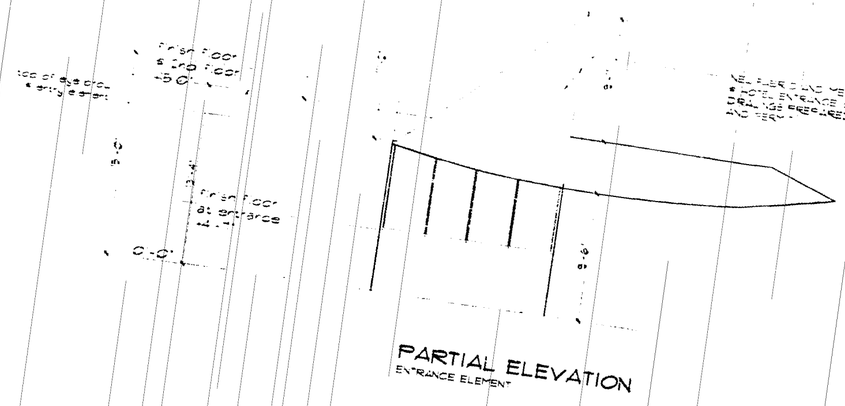
SHEET NUMBER
A-3.3

MIAMI BEACH
ELEV. N.S.

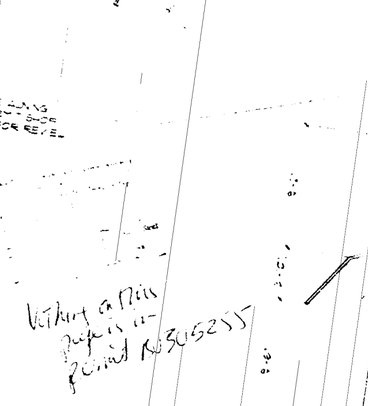
ELEVATION 'A'

ELEVATION 'B'

PARTIAL FLOOR PLAN
ENTRANCE ELEVEN



PARTIAL ELEVATION
ENTRANCE ELEMENT



SECTION

BELLINSON

LES BELINSON AIA
AR 0007
730 N.W. 107 AVENUE
SUITE 308
MIAMI FL
TEL (305) 599 1726
FAX (305) 361 1740
bellinsonarchitects.com

CRYSTAL BEACH CLUB
6940 COLLINS AVENUE
MIAMI BEACH, FL 33141

FRONT ENTRANCE ELEV.

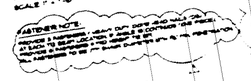
DATE	REVISION
DWG. TITLE	ENTRANCE ELEMENT DETAIL
SCALE	1/4"
PROJECT NO.	
DATE	2001.27
SHEET NUMBER	9-25-02 A-3.4

09

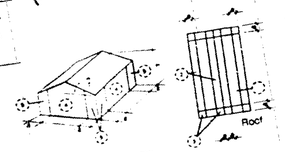
SOUTH ELEVATION

EAST ELEVATION

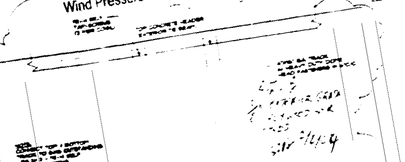
TYP. DETAIL AT WINDOW SIDE



TYP. DETAIL @ TIE BEAMS TOP & BOTT



Wind Pressure Diagrams



TYPICAL WALL STUDS TO REPLACE & CLOSE REMOVED WINDOW

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING:
ZONING:
DRB/HPB:
CONCURRENCY:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
PUBLIC WORKS:
SIDEWALK:
ACCESSIBILITY:
ELEVATOR:

As per Florida Building Code Section 104.5.3
RENEWAL FOR CODE COMPLIANCE

10305255

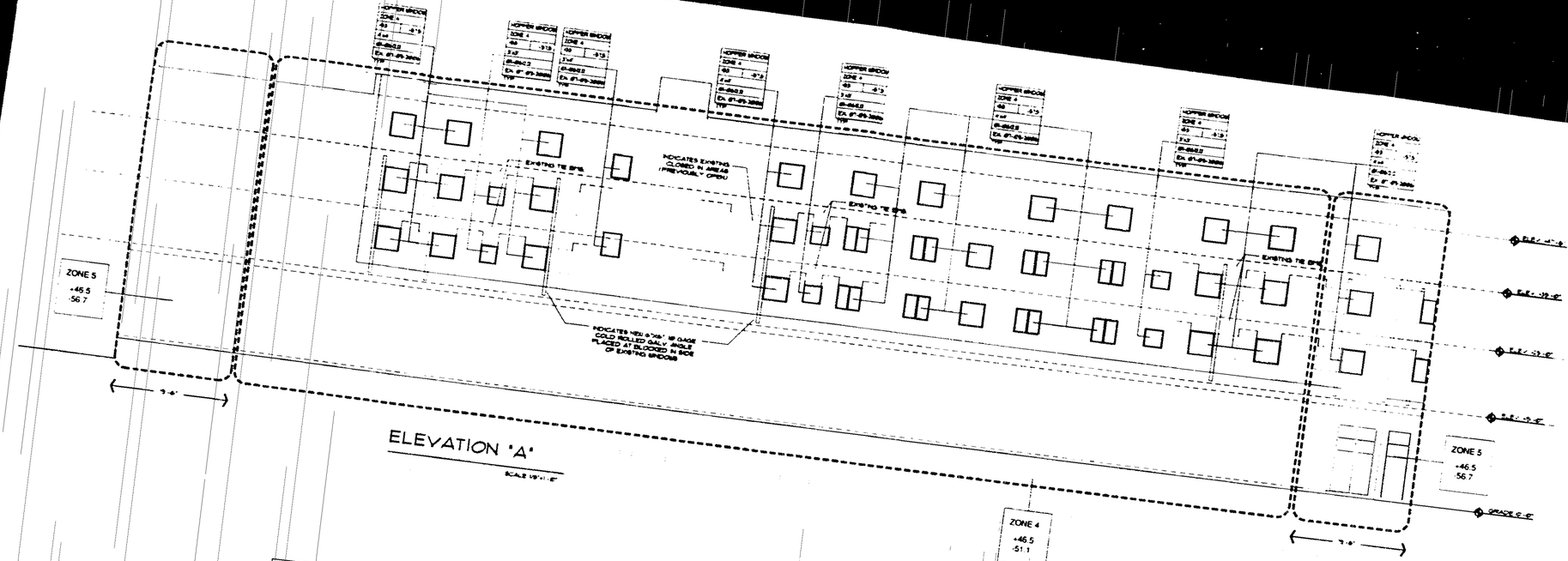
REILINSON

LES REILINSON, LA
AIA
ASSOCIATES
ARCHITECTURE
PLANNING
INTERIOR DESIGN

CRYSTAL BEACH CLUB

DATE REVISION
DWG TITLE
SCALE
PROJECT NO
DATE
SHEET NUMBER S-01

GOPMAN
Consulting Engineers, Inc



ELEVATION 'A'

ELEVATION 'B'

BELL INSON AIA
LES BELLINSON AIA
AR 0017173
AVENUE
SUITE 100
33139
TEL 305 538 1700
FAX 305 538 1740

CRYSTAL BEACH CLUB
MULTI-USE FACILITY
MIAMI BEACH, FL 33141

NO.	DATE	REVISION

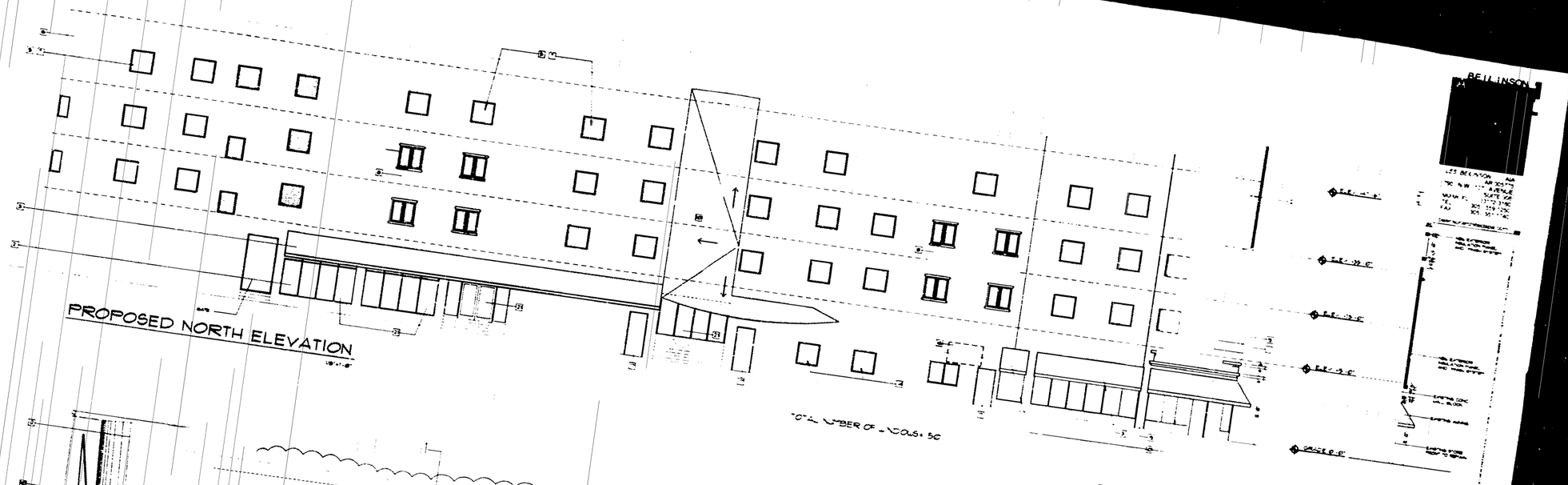
SHEET TITLE
SOUTH ELEVATION
EAST ELEVATION

SCALE 1/8"=1'-0"
PROJECT NO 20-2135
DATE 10/25/22
SHEET NUMBER S-02

GOPMAN
Consulting Engineers, Inc
192 North Federal Highway
North Miami Beach, FL 33162
Ph. 305 493 3819 Fax 305 770 0957

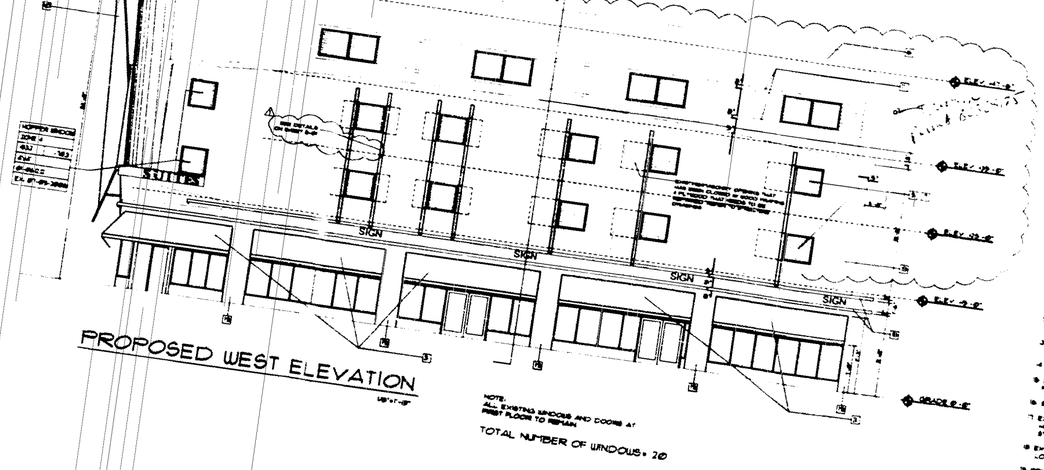
Design Investigation Inspection Reports

09



PROPOSED NORTH ELEVATION

TOTAL NUMBER OF WINDOWS = 50



PROPOSED WEST ELEVATION

NOTE:
ALL EXISTING WINDOWS AND DOORS AT FIRST FLOOR TO REMAIN

TOTAL NUMBER OF WINDOWS = 70

NOTE:
THE FOLLOWING ITEMS ARE TO BE INSTALLED UNDER SEPARATE PERMITS.

SPECIALTY CONTRACTOR TO SUBMIT SHOP DRAWINGS AND N.O.A. PREPARED BY A PROFESSIONAL ENGINEER FOR PERMIT

1. WINDOWS
2. EXTERIOR DOORS
3. ROOFING
4. AWNINGS
5. EXTERIOR SIGNAGE

PLAN NOTES

1. REMOVE EXISTING WOOD CURTAIN WALL AND RUSTED OUT STUCCOED WALL PANELS
2. EXISTING STOREFRONT TO REMAIN. REMOVE PAINT ON ALUMINUM GLAZING PANELS AND ALUMINUM MULLIONS AND PAINT TO BE ANODIZED BRONZE TO REMOVE ALL PAINT AND PAINT TO BE NEW ESP COLOR EQUAL TO ANODIZED BRONZE
3. REPLACE EXISTING FABRIC AWNING COVERS WITH EQUAL TO COASTLINE BY JESCO COLOR TO BE SELECTED
4. ALL BLOCK OR MONOLITHIC STUCCO OVER INSULATED PANELS OVER EXISTING STOREFRONT TO HAVE INTEGRAL COLOR
5. INSTALL NEW OPERABLE WOOD SECTIONS INTO EXISTING HARDWARE OPENINGS WITH ALL NEW HARDWARE
6. REMOVE CHAIN EXISTING PAINTED STUCCO CLEAN TO REMOVE ALL DIRT, GREASE AND LOOSE PAINT. PREPARE SURFACE AS REQUIRED TO RECEIVE NEW PAINT
7. REMOVE ALL WOOD AND ALL ALUMINUM PANELS AND REPLACE WITH NEW ALUMINUM PANELS AS SELECTED BY ARCHITECT
8. NEW ALUMINUM FRAMED CANOPY WITH GLASS ROOF AND GLASS PANELS TO BE INSTALLED BY SPECIALTY CONTRACTOR UNDER SEPARATE PERMIT
9. NEW FABRIC METAL FRAME AWNING WITH LOGO ON ENTIRE AND CORNER METAL ENTRY CANOPY TO BE INSTALLED BY SPECIALTY CONTRACTOR UNDER SEPARATE PERMIT
10. NEW STUCCO BAND CONSTRUCTED OF METAL FRAMING, HIGH DENSITY INSULATING SHEATHING AND ACRYLIC STUCCO
11. PERFORATED ALUMINUM PANEL SCREEN SUPPORTED OFF BUILDING REINFORCED STRUCTURE
12. EXISTING HARDWIRE WALL TO BE STUCCOED FINISH COAT TO BE ACRYLIC STUCCO WITH INTEGRAL COLOR
13. CUT MASONRY OPENING TO ACCOMODATE NEW FIXED GLASS IN ALUMINUM FRAME
14. EXTERIOR WALL ON FINAL SYSTEM TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS
15. SIGN PANEL TO BE REMOVED
16. EXISTING HOLLOW METAL DOOR & FRAME TO BE REPLACED WITH NEW GALVANIZED HOLLOW METAL DOORS & GALVANIZED FRAME PAINTED REPLACE HINGES WITH STAINLESS STEEL HINGES
17. EXISTING LOUVERED METAL DOORS & FRAMES TO BE REPLACED WITH NEW GALVANIZED LOUVERED METAL DOORS & GALVANIZED FRAME PAINTED NEW STAINLESS STEEL HINGES
18. REPLACE STUCCO & RUSTED STUCCO TRIM WITH NEW STUCCO TRIM ON ALL CORNERS
19. COVER OPENING WITH NEW ALUMINUM WEATHER PROOF LOUVER VERIFY OPENING IN FIELD
20. ALL EXISTING WINDOWS AND STOREFRONTS AT THREE FLOOR TO REMAIN. REPLACE ALL HOLLOW METAL AND LOUVERED METAL DOORS AND FRAMES WITH NEW TO MATCH EXISTING SIZES AND TYPES COMPLETE WITH NEW HARDWARE. DOORS AND FRAMES TO BE GALVANIZED AND PAINTED WITH EPOXY PAINT
21. EXISTING GATE TO BE REPAINTED WITH RUST INHIBITIVE PAINT (WHITE)

SECTION 1

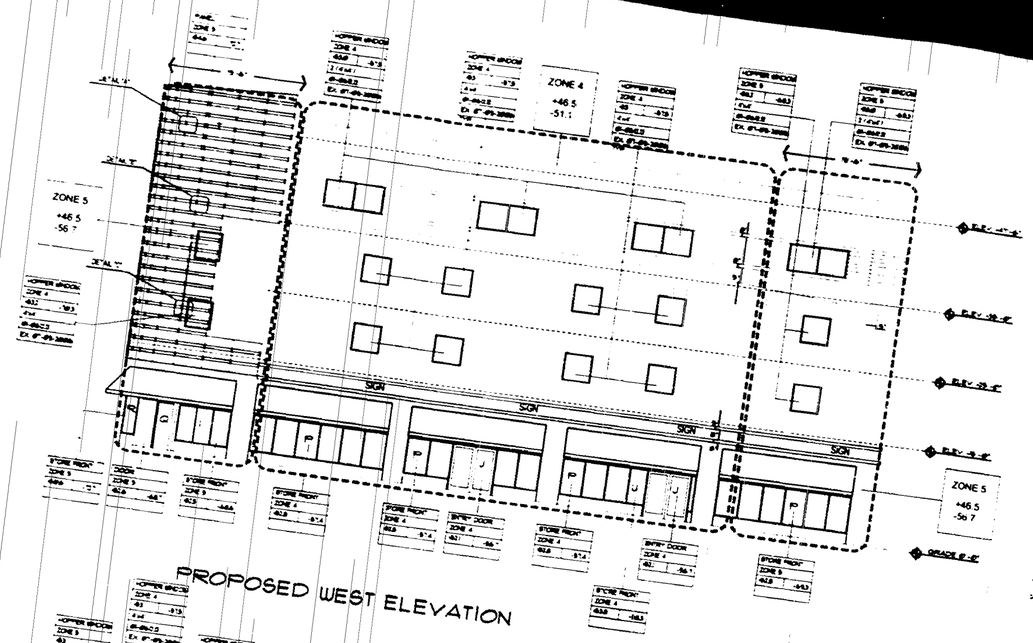
BELLINSON

CRYSTAL BEACH CLUB

COPMAN
Consulting Engineers Inc.

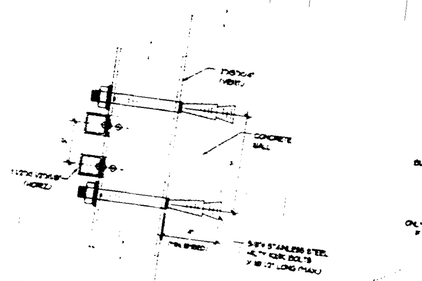
S-03

09

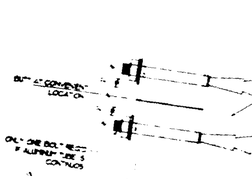


PROPOSED WEST ELEVATION

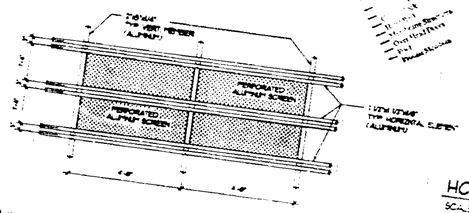
PROPOSED NORTH ELEVATION



TYPICAL AT TOP ONLY DETAIL 'A'
SCALE 3" = 1'-0"



DETAIL 'B'
SCALE 3" = 1'-0"



TYPICAL ERECTION LAYOUT OF ALUMINUM SCREEN PANELS.
SCALE 1/2" = 1'-0"

HORIZONTALS TO VERTICALS DETAIL 'C'
SCALE 3" = 1'-0"

NOTE: SCREEN & SCREEN CONNECTION TO HORIZONTAL MEMBER SHALL BE CERTIFIED BY MFGR. TO BE IN ACCORDANCE W/ WIND VELOCITY AS SHOWN ON THESE DWGS.

BELLINSON

CRYSTAL BEACH CLUB

GOPMAN
Consulting Engineers, Inc

DATE	REVISION
DWG TITLE	WEST ELEVATION NORTH ELEVATION
SCALE	1/8"=1'-0"
PROJECT NO	2002-135
DATE	01-16-04
SHEET NUMBER	S-04

09

PROPERTY LINE

PROPERTY LINE

ZONE 3 (TYP.)

ZONE 2

ZONE 3 (TYP.)

ZONE 2

ZONE 1

ZONE 2

ZONE 3

ZONE 2

ZONE 3

PROPERTY LINE

PROPERTY LINE

N

ROOF PRESSURE PLAN

SCALE 3/32"

ROOF PRESSURES		
	(+)	(-)
ZONE 1		
ZONE 2		
ZONE 3		

BELLINSON

OFFICE COPY

CRYSTAL BEACH CLUB

DATE REVISION

DWG TITLE
ROOF PRESSURE PLAN

SCALE AS SHOWN

PROJECT NO

DATE

SHEET NUMBER
S-05

GOPMAN
Consulting Engineers, Inc

09

BEILINSON

CRYSTAL BEACH CLUB

GOPMAN
Consulting Engineers Inc.

S-01

09

SOUTH ELEVATION

EAST ELEVATION

BELLINSON
Structural Engineers

LES BELLINSON, MA
PE, M.W. 107 AVENUE
SUITE 308
33172-3160
(305) 598-1430
(305) 551-1749

CRYSTAL BEACH CLUB
7865 COLLINS AVENUE
MIAMI BEACH, FL 33141

STRUCTURAL DEMO & REPAIR, SITE

GOPMAN
Consulting Engineers, Inc.
152 North East 168th Street
North Miami Beach, Fl. 33162
Ph: (305) 653 3818 Fax: (305) 770-0957
11/20/09

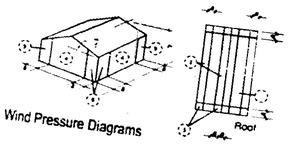
	DATE	REVISION
DWG. TITLE		SOUTH ELEVATION / EAST ELEVATION
SCALE		1/8"=1'-0"
PROJECT NO		2001-37
DATE		9-25-02
SHEET NUMBER		S-01

SITE

09

ELEVATION 'A'

ELEVATION 'B'



BE ILINSON

LES BE ILINSON, AIA

CRYSTAL BEACH CLUB

GOPMAN
Consulting Engineers, Inc.

DATE REVISION

DWG TYPE
SOUTH ELEVATION
EAST ELEVATION

SCALE 1/8"=1'-0"

PROJECT NO 2002.135

DATE 10.23.02

SHEET NUMBER S-02

09

60

CRYSTAL BEACH CLUB

STRUCTURAL REPAIR A TRUCK

SCALE 1/16"=1'-0"

SCALE 1/16"=1'-0"

GOPMAN

Consulting Engineers, Inc.

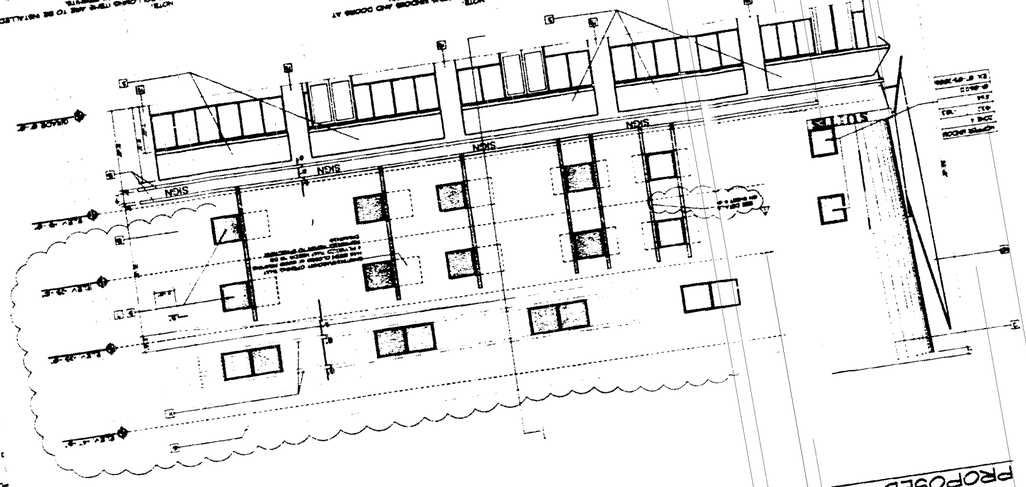
S-02

BEAUDISON

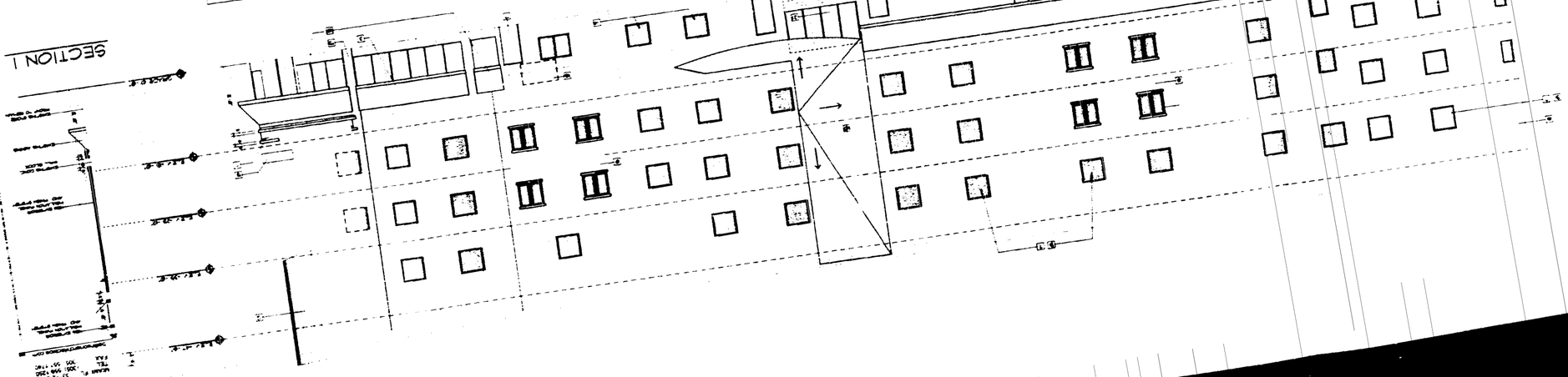
60

CRYSTAL BEACH CLUB

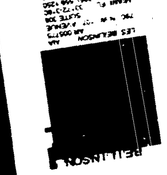
PROPOSED WEST ELEVATION

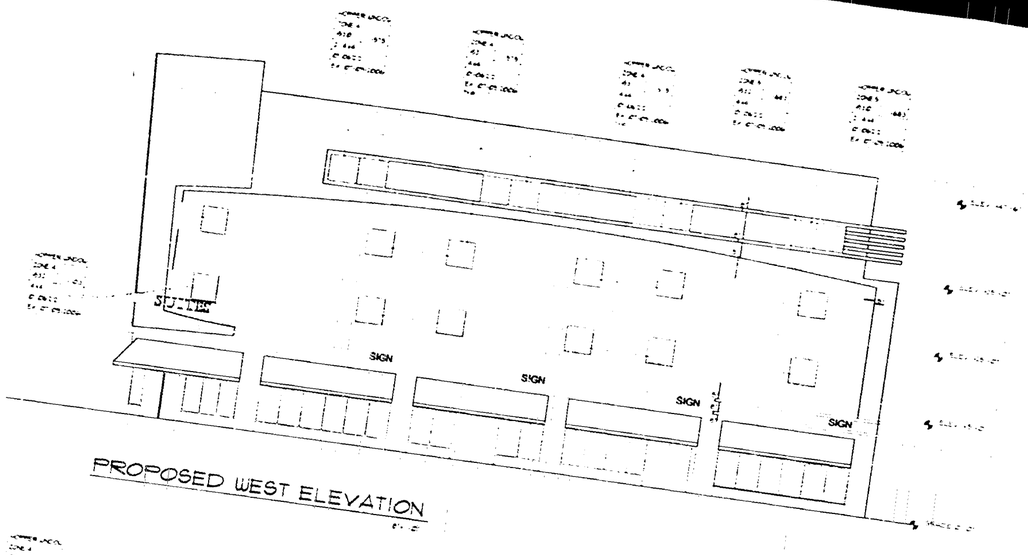


PROPOSED NORTH ELEVATION

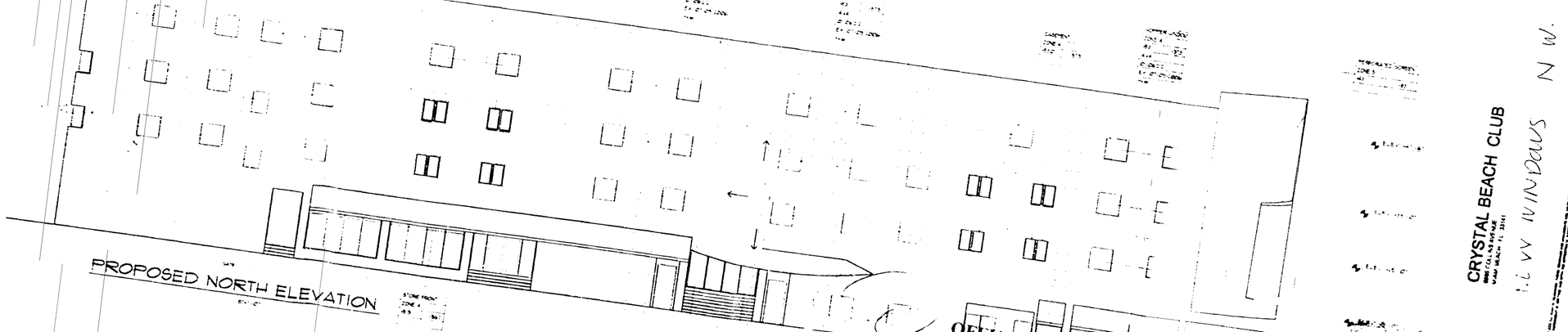


SECTION I





PROPOSED WEST ELEVATION



PROPOSED NORTH ELEVATION

BELLINSON
Architecture

CRYSTAL BEACH CLUB
6881 COLLINS AVENUE
MIAMI BEACH, FL 33141

N.W. 44 WINDOWS

OFFICIAL
CITY OF
APPROVED
THE FOLL
BUILDING:
ZONING:
FIRE/HPB:
CONCURRENCY:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
PUBLIC WORKS:
STRUCTURAL:
ACCESSIBILITY:
ELEVATOR:
As per Florida Building Code
REVIEWED FOR COMPLIANCE

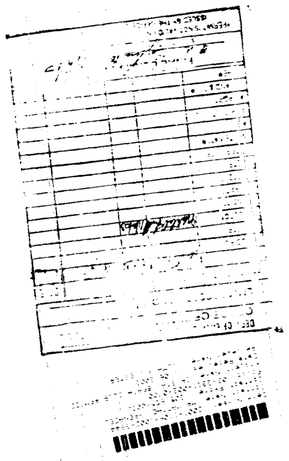
GOPMAN
Consulting Engineers, Inc.
192 North 40th Street
North Miami Beach, FL 33162
Ph: (305) 493-3919 Fax: (305) 770-0851
Design Construction Inspection Reports
CERTIFICATE OF AUTHORIZATION NUMBER EB 0000000

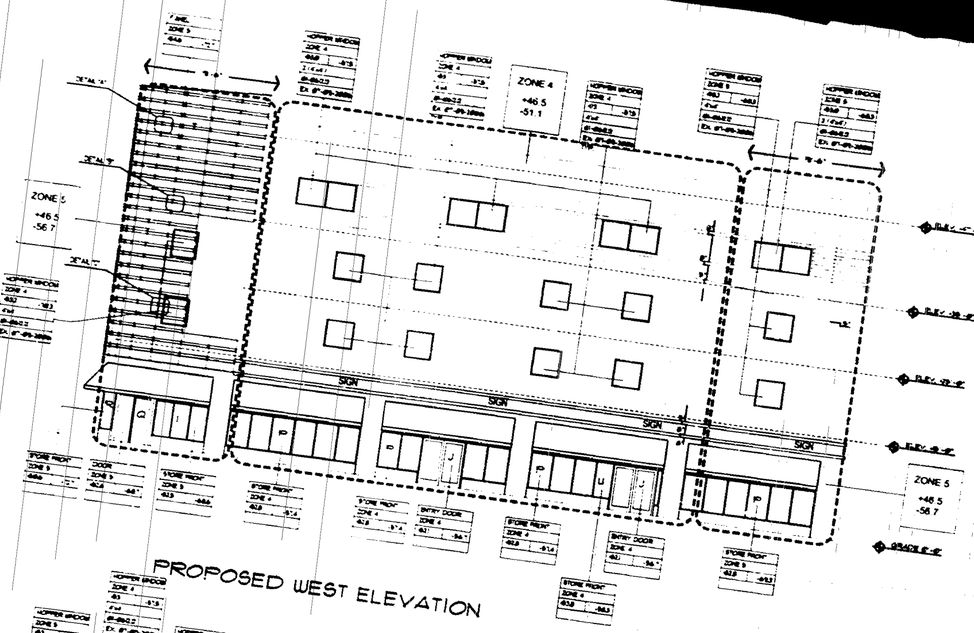
11/20/01

DATE	REVISION
DWG TITLE	WEST ELEVATION NORTH ELEVATION
SCALE	1/8"=1'-0"
PROJECT NO	2001.37
DATE	9-25-01
SHEET NUMBER	S-03

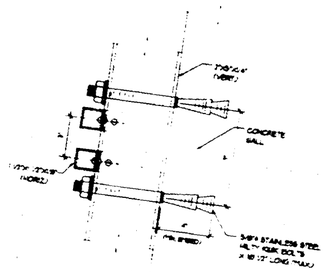
09

60

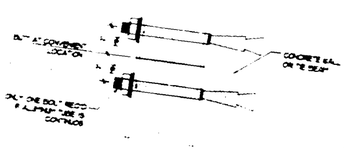




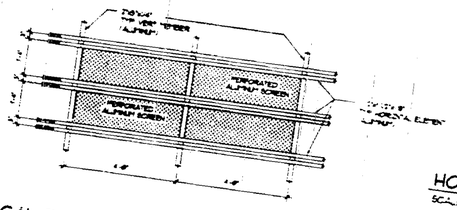
PROPOSED WEST ELEVATION



TYPICAL AT TOP ONLY DETAIL 'A'
SCALE 3" = 1'-0"



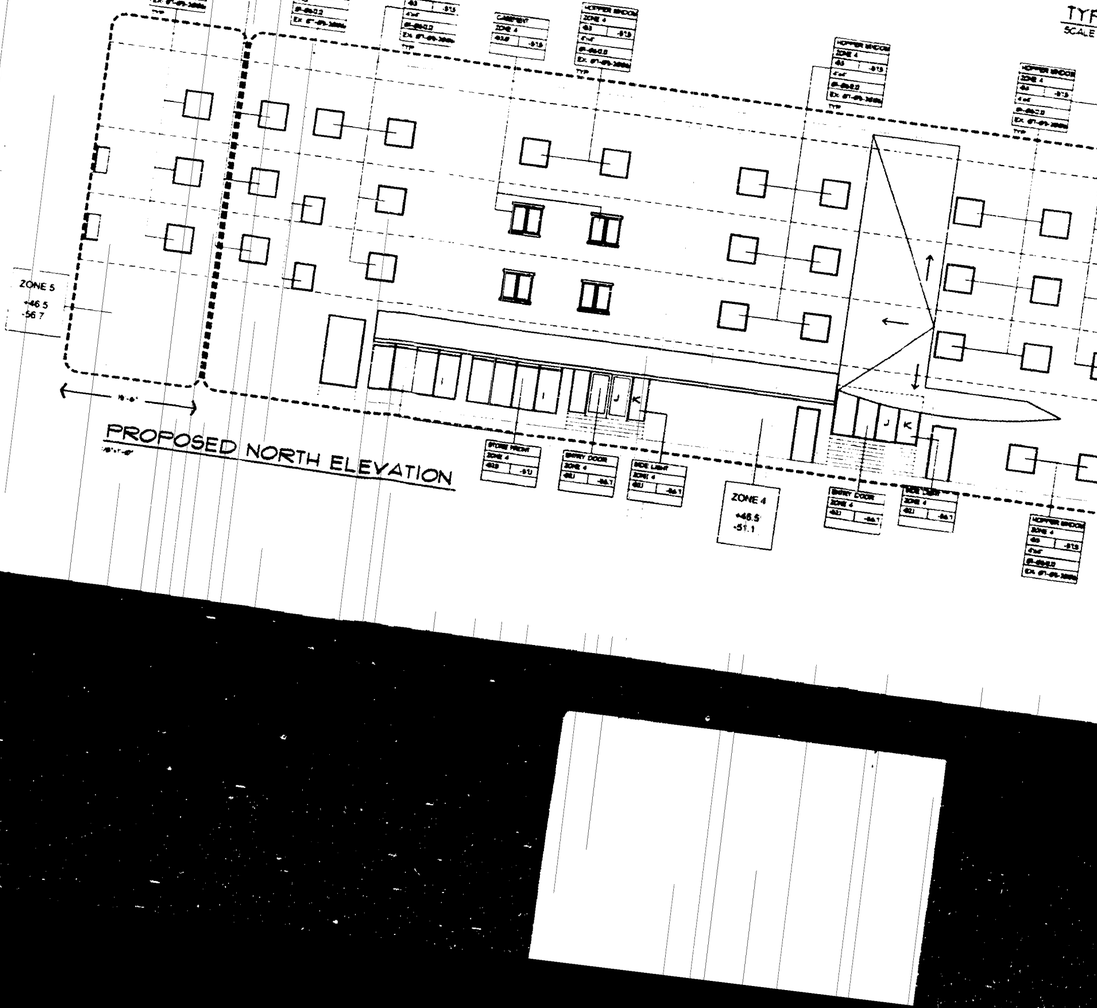
DETAIL 'B'
SCALE 3" = 1'-0"



TYPICAL ERECTION LAYOUT OF ALUMINUM SCREEN PANELS.
SCALE 1/8" = 1'-0"

HORIZONTALS TO VERTICALS DETAIL 'C'
SCALE 3" = 1'-0"

NOTE: SCREEN & SCREEN CONNECTION TO HORIZONTAL MEMBER SHALL BE CERTIFIED BY PEGR. TO BE IN ACCORDANCE W/ WIND VELOCITY AS SHOWN ON THESE DWGS.



PROPOSED NORTH ELEVATION

BEILINSON

LES BEILINSON AIA
1980 N.W. 151st AVENUE
SUITE 305
MIAMI FL 33172-1460
TEL 305 599 1760
FAX 305 599 1755
beilinsonarchitects.com

CRYSTAL BEACH CLUB
6960 COLLINS AVENUE
MIAMI BEACH, FL 33141

DATE	REVISION

DWG TITLE
WEST ELEVATION
NORTH ELEVATION

SCALE 1/8"=1'-0"
PROJECT NO 2002.133
DATE 01.28.03
SHEET NUMBER S-04

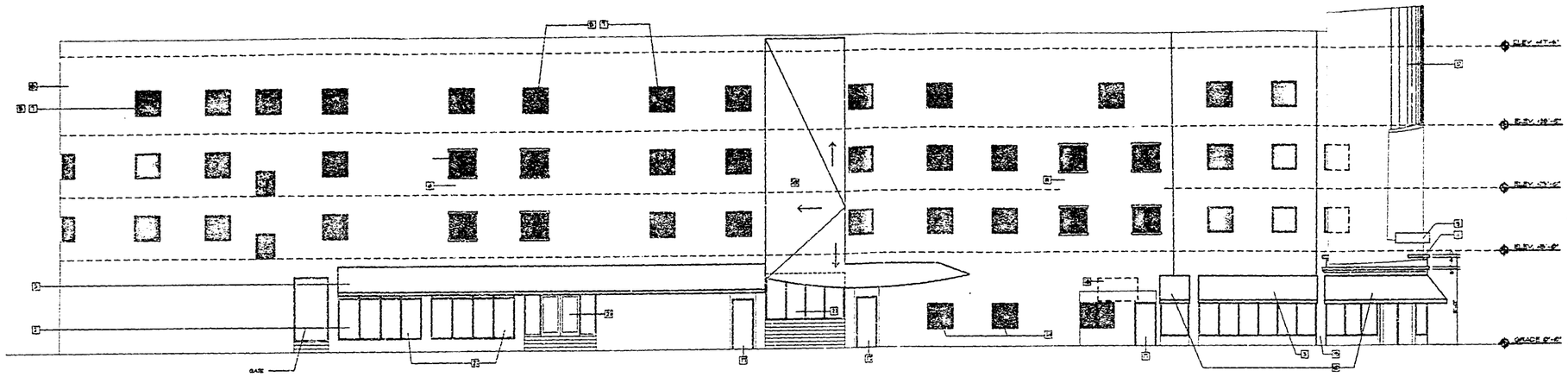
GOPMAN
Consulting Engineers, Inc
150 Alhambra Circle Suite 1000
Coral Gables, Florida 33134
ph 305 443 4616 fax 305 443 0085

09

LASON

PERMIT #

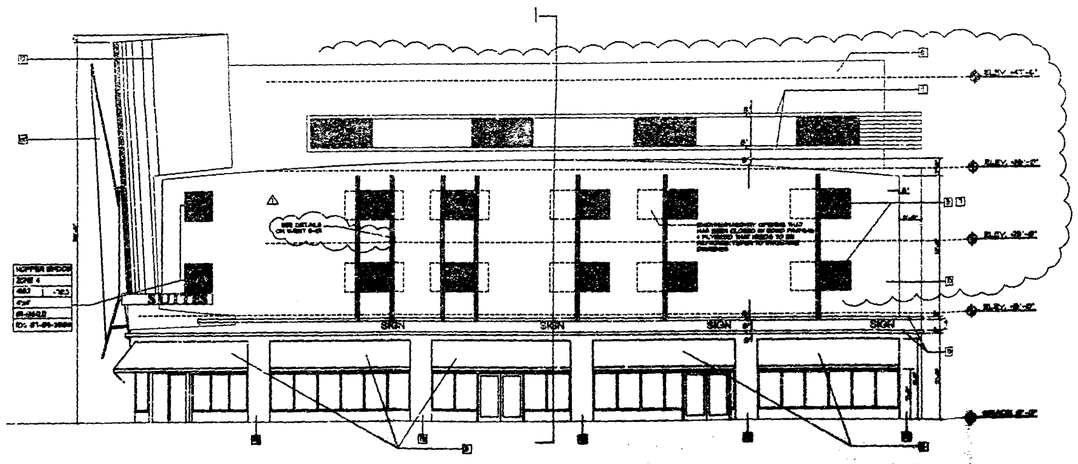
B0402730



PROPOSED NORTH ELEVATION

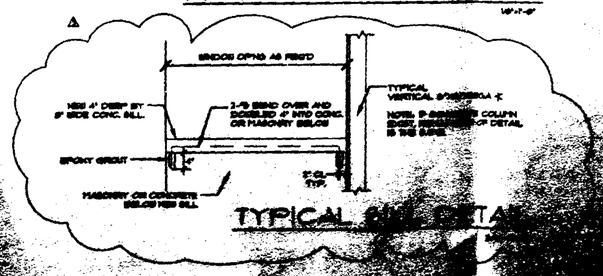
TOTAL NUMBER OF WINDOWS = 80

NOTE
REFER TO STRUCTURE DESCRIPTION PAGE FOR WINDOW PRESSURE AND DETAILS.
ALL WINDOWS AND DOORS ARE UNDER SEPARATE PERMIT



PROPOSED WEST ELEVATION

TOTAL NUMBER OF WINDOWS= 39



TYPICAL SILL DETAIL

PLAN NOTES:

1. REMOVE EXISTING WINDOW CURTAIN WALL AND FURRED OUT STUCCOED WALL PANELS.
2. EXISTING STOREFRONT TO REMAIN. REMOVE PAINT FROM GLASS PANELS. TAPE PAINTED ALUMINUM FRAMES SMALL SO SHADED SHOOTH TO REMOVE ALL PAINT RUNS. REFINISH WITH E.B.A. COLOR EQUAL TO WHITE
3. REPLACE EXISTING FABRIC AWNING COVERS WITH EQUAL TO COASTLINE BY SEELON. COLOR TO BE SELECTED.
4. NEW BUILT UP ACRYLIC STUCCO OVER INSULATED PANELS OVER EXISTING MASONRY. STUCCO TO HAVE INTEGRAL COLOR.
5. INSTALL NEW OPERABLE WINDOW SECTIONS INTO EXISTING MASONRY OPENINGS. (TYP. ALL OPENINGS)
6. PRESSURE CLEAN EXISTING PAINTED STUCCO WALLS TO REMOVE ALL DIRT, MILDEW AND LOOSE PAINT. PREPARE WALL TO RECEIVE A COAT OF ACRYLIC STUCCO.
7. SEAL JOINTS AT WALL AROUND ALL WINDOWS WITH A SILICONE BASED SEALANT. COLOR TO MATCH WALL COLOR.
8. NEW ALUMINUM + GLASS CASEMENT WINDOW AND FIXED GLASS PANELS TO BE INSTALLED BETWEEN EXISTING CONCRETE EYEBROWS.
9. NEW METAL + NEON SIGN FOR HOTEL.
10. NEW FABRIC + METAL FRAME AWNING @ HOTEL ENTRY AND CORNER RETAIL ENTRY. AWNING CONTRACTOR TO SUBMIT SHOP DRAWINGS PREPARED BY P.E. FOR REVIEW + PERMIT.
11. NEW STUCCO BANDS CONSTRUCTED OF METAL FRAMING, HIGH DENSITY INSULATING PANELS AND ACRYLIC STUCCO.
12. PERFORATED ALUMINUM PANEL SCREEN SUPPORTED OFF BUILDING. REFER TO STRUCTURE DWGS.
13. EXISTING MASONRY WALL TO BE STUCCOED. FINISH COAT TO BE ACRYLIC STUCCO WITH INTEGRAL COLOR.
14. CUT MASONRY OPENING TO ACCOMODATE NEW FIXED GLASS IN ALUMINUM FRAME.
15. EXTERIOR INSULATION + FINISH SYSTEM TO BE INSTALLED IN ACCORDANCE W/ PRODUCT ACCEPTANCE # 98-0721.02
16. SIGN PANEL TO BE REMOVED
17. EXISTING HOLLOW METAL DOOR + FRAME TO BE REPLACED WITH NEW GALVANIZED HOLLOW METAL DOOR, + GALV. FRAME PAINTED REPLACE HINGES WITH STAINLESS STEEL HINGES.
18. EXISTING LOUVERED METAL DOORS + FRAMES TO BE REPLACED WITH NEW GALV. LOUVERED METAL DOORS W/ GALVANIZED FRAMES, NEW STAINLESS STEEL HINGES.
19. REPLACE STUCCO + PAINTED STUCCO TRIM WITH PVC STUCCO TRIM ON ALL COLUMNS.
20. COVER OPENING WITH NEW ALUMINUM WEATHER PROOF LOUVER. VERIFY OPENING IN FIELD.
21. ALL EXISTING WINDOWS AND STOREFRONTS AT STREET FLOOR TO REMAIN. REPLACE ALL EXISTING METAL AND LOUVERED METAL DOORS AND FRAMES WITH NEW TO MATCH EXISTING SIZES AND TYPES COMPLETE WITH NEW HARDWARE DOORS AND FRAMES TO BE GALVANIZED AND PAINTED WITH EPOXY PAINT.
22. EXISTING GATE TO BE REPAINTED WITH RUST INHIBITIVE PAINT (TYP.)

PROPOSED NORTH ELEVATION
4'-0"x4'-6" HOPPER WINDOW 42
3'-0"x3'-0" HOPPER WINDOW 3
X'-X"-0" PROTRUDE SID. 5
TOTAL 50

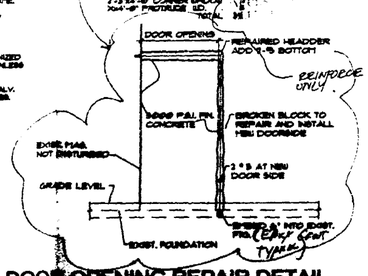
PROPOSED WEST ELEVATION
4'-0"x4'-0" HOPPER WINDOW 28
TOTAL 28

SOUTH ELEVATION
4'-0"x4'-0" HOPPER WINDOW 36
2'-0"x3'-0" HOPPER WINDOW 3
3'-3"x4'-0" CORNER SID. 4
TOTAL 43

EAST ELEVATION
4'-0"x4'-0" HOPPER WINDOW 34
2'-3"x4'-0" CORNER SID.
TOTAL

ELEVATION "A"
4'-0"x4'-0" HOPPER WINDOW
3'-0"x3'-0" HOPPER WINDOW
3'-3"x4'-0" HOPPER WINDOW
3'-3"x4'-0" CORNER WINDOW
X'-X"-0" PROTRUDE SID.
TOTAL

ELEVATION "B"
4'-0"x4'-0" HOPPER WINDOW
3'-0"x4'-0" HOPPER WINDOW
3'-6"x4'-0" HOPPER WINDOW
3'-3"x4'-0" CORNER WINDOW
X'-X"-0" PROTRUDE SID.
TOTAL



DOOR OPENING REPAIR DETAIL

SECTION 1

BO402730

OFFICE COPY
CITY OF
APPROVED
BUILDING:
ZONING:
DRB/HPB:
CONCURRENCY:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
PUBLIC WORKS:
SPECIAL:
FINAL:

SHA 4/13/14 * REINFORCING DETAILS/POINTING

REINFORCE ONLY

DOORS & WINDOWS

CRYSTAL BEACH CLUB
9665 COLLINS AVENUE
MIAMI BEACH, FL

BELLINSON
LES BELLINSON AIA
AR 005775
7801 N.W. 107 AVENUE
SUITE 308
MIAMI FL 33178-3180
TEL (305) 508.1250
FAX (305) 221.1740
bellinsonarchitects.com

GOPMAN
Consulting Engineers, Inc.
Miami, Florida

4/14/14

S-03

B0402730
6985 COLLINS AVE

NEXT
PROfessional Microfilm Services, Inc.
Miami, Florida
FILE

THIS IS TO CERTIFY THAT PROFESSIONAL MICROFILM SERVICE, INC. PRESENTS THE FOLLOWING IMAGES AS AN ACCURATE AND COMPLETE MICROFILM COPY OF THE ORIGINAL BUSINESS FILES AS EDITED BY THE INSTITUTION INSTRUCTIONS.

PERMIT

BUILDER

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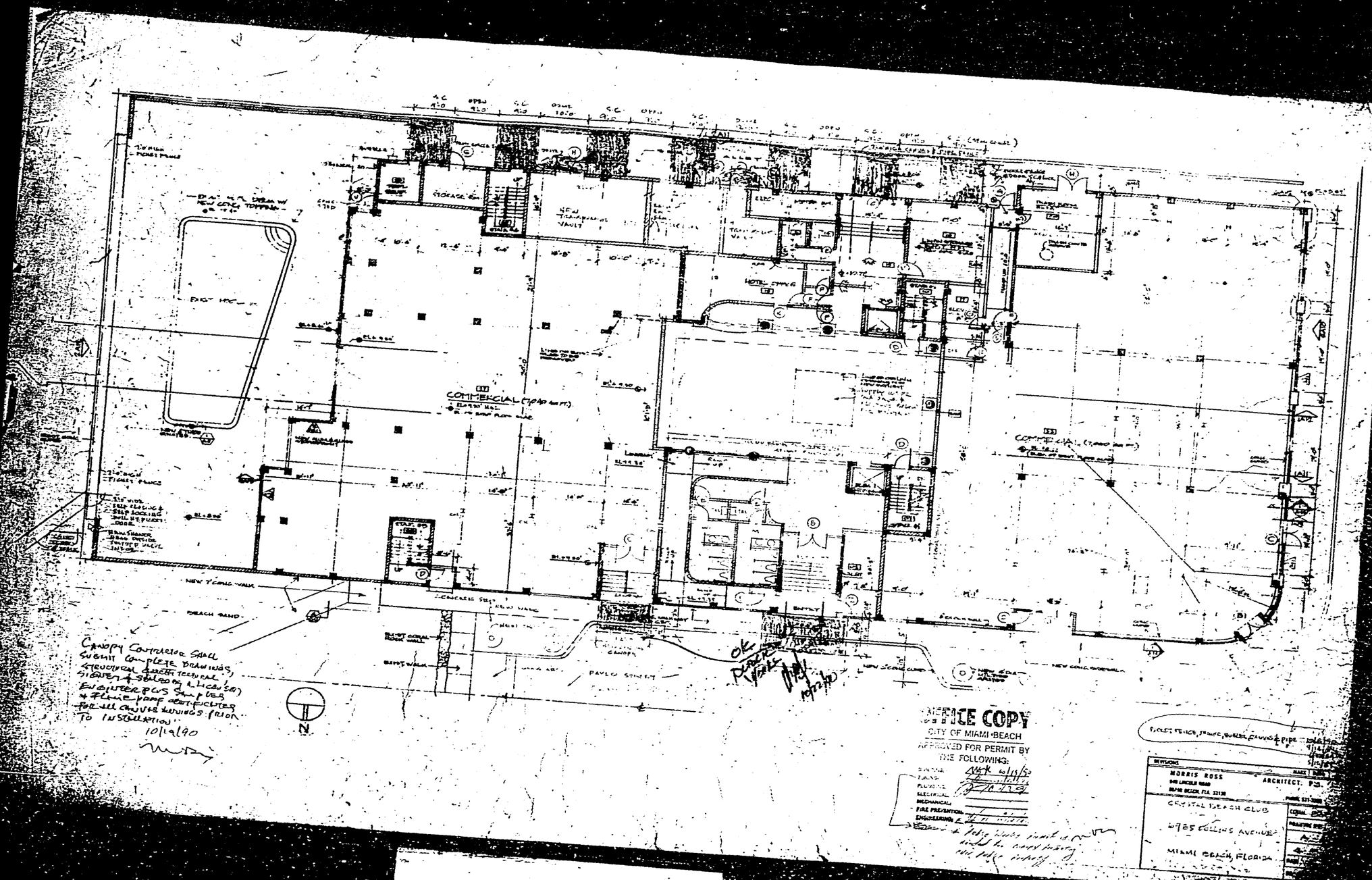
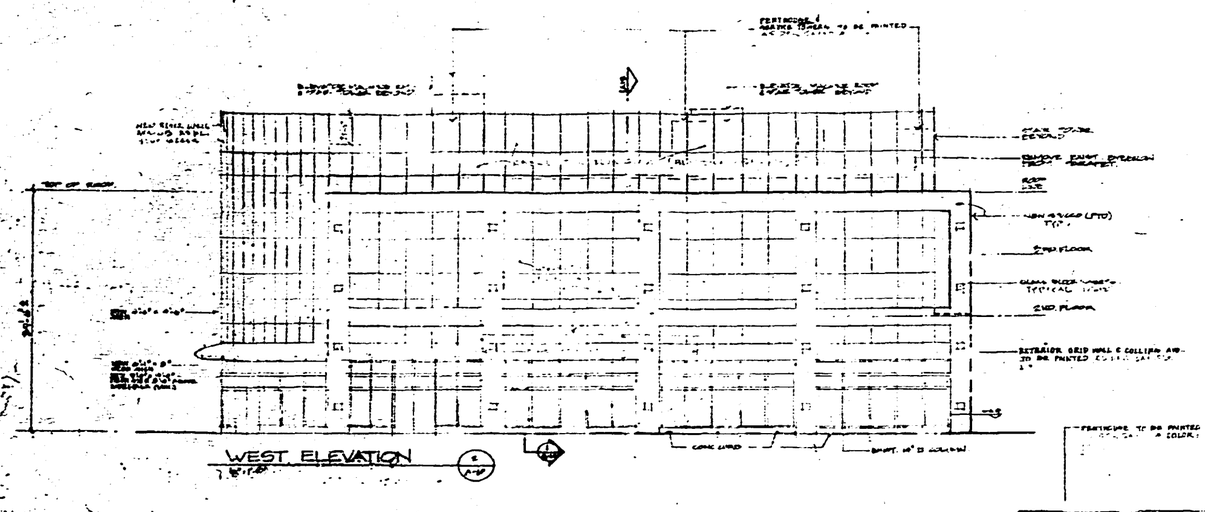
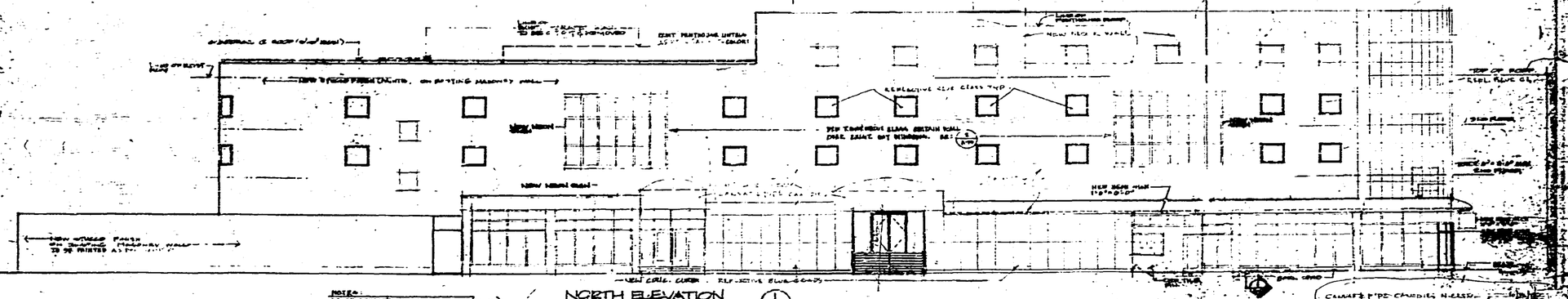


Canopy Contractor shall submit complete drawings, structural & electrical, signed & sealed by a Licensed Engineer PCS Samples & Flame Proof certificates for all canvas awnings prior to installation.
10/19/90



WEST ELEVATION



NORTH ELEVATION

NOTES:
1. SEE WINDOW SEE REFLECTIVE GLASS (BLUE) UNLESS OTHERWISE NOTED.

2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ARCHITECT AND CITY OF MIAMI BEACH BLDG. DEPT. FOR APPROVAL

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING
ZONING
PLUMBING
ELECTRICAL
MECHANICAL
FIRE PREVENTION
ENGINEERING

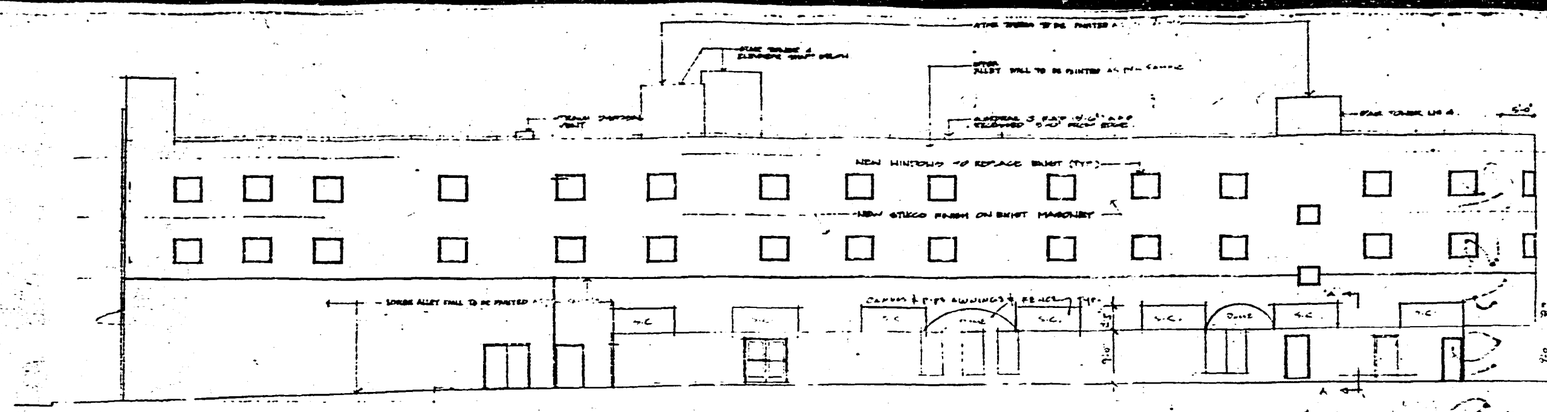
REVISIONS

MORRIS ROSS ARCHI
900 LINCOLN ROAD
MIAMI BEACH, FLA. 33139 PHONE 31

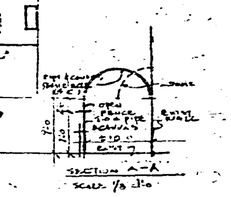
CRYSTAL BEACH CLUB

6925 COLLINS AVENUE

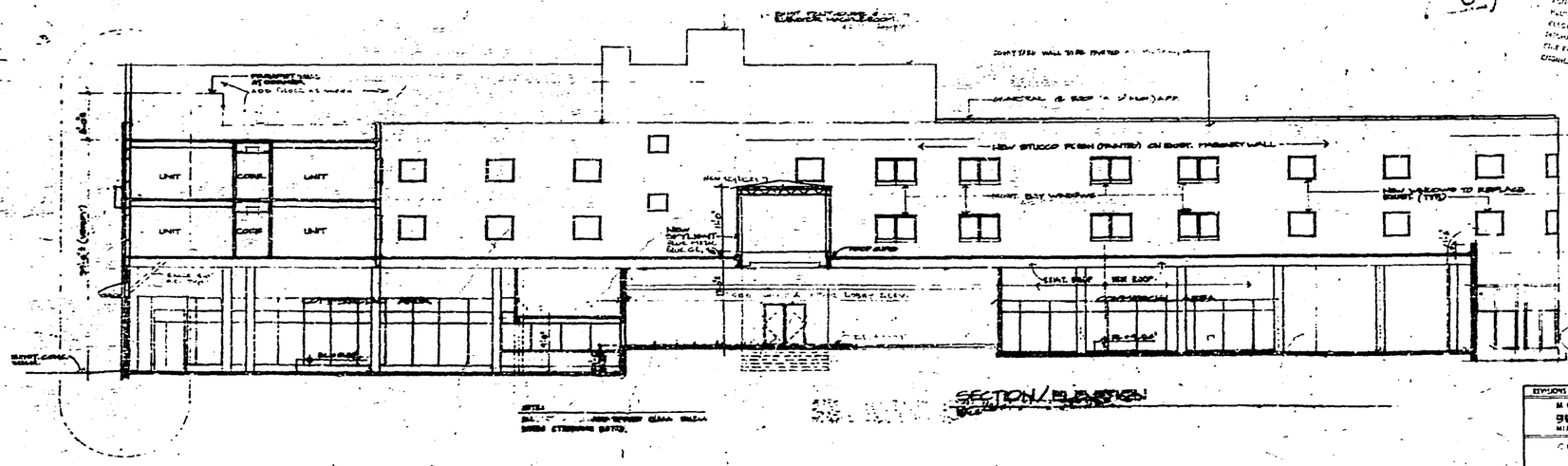
B
88
01045R



SOUTH ELEVATION



SECTION A-A



SECTION/ELEVATION

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING
PLANNING
PUBLIC WORKS
ELECTRICAL
MECHANICAL
FIRE PREVENTION
ENGINEERING

MORRIS ROSS ARCHITECT
2828 LINCOLN ROAD
MIAMI BEACH, FLA. 33139 PHONE 531-3396

CENTRAL BEACH CLUB
1155 COLLINS AVENUE
MIAMI BEACH, FLORIDA

B
88
0104R

PREVIOUS DOCUMENT
IN POOR
ORIGINAL CONDITION

Professional Microfilm Services, Inc.
Miami, Florida

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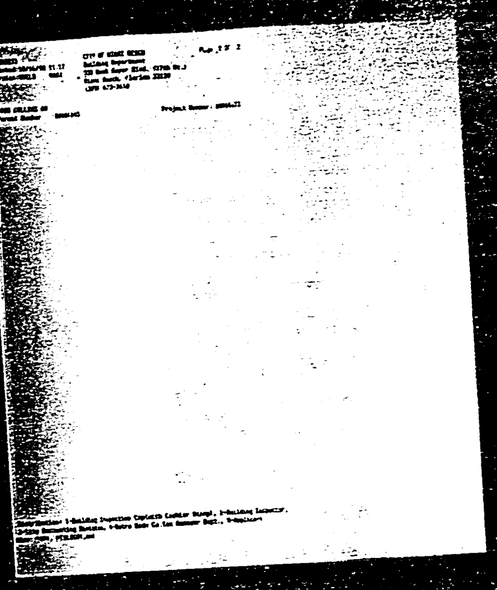
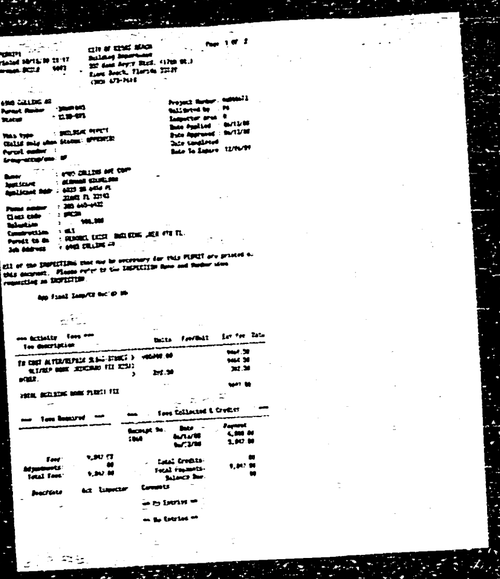
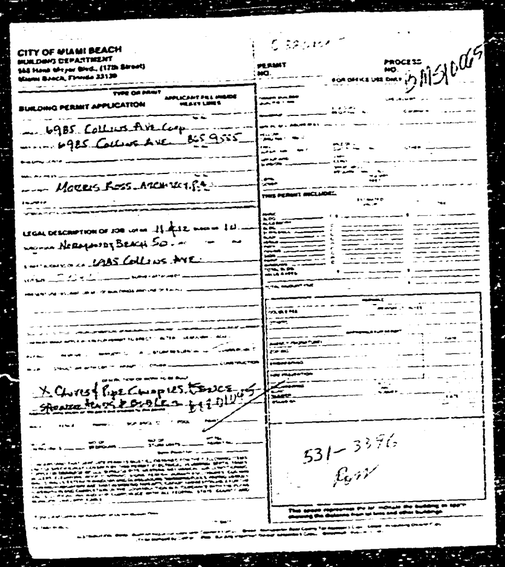
0001311







CITY OF MIAMI BEACH
BUILDING DEPARTMENT
940 Pennsylvania Ave. (17th Street)
Miami Beach, Florida 33139

PERMIT NO.

PROCESS NO. BMISC0045

FOR OFFICE USE ONLY

TYPE OR PRINT — APPLICANT FILL INSIDE HEAVY LINES

BUILDING PERMIT APPLICATION

6985 Collins Ave Corp

6985 Collins Ave Bch 33141

Morris Ross Architect P.A.

LEGAL DESCRIPTION OF JOB (Lot, Block, Subdivision, Plat No.)

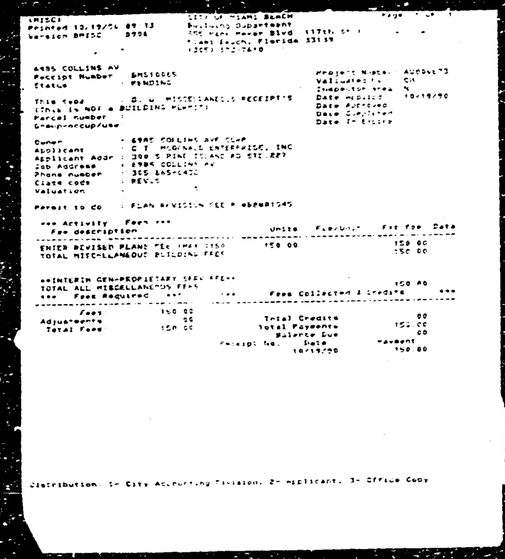
Normandy Beach 50

6985 Collins Ave.

THIS PERMIT INCLUDES:

X Chris Pye Chandler Boyce
Shawn Hunt Douglas

531-3376
Pam



LMISC1 — CITY OF MIAMI BEACH — Page 1
Printed 12/19/96 09:13 — Building Department
Version BMISC 9906 — 1700 Alton Road (17th St.)
Miami Beach, Florida 33139
(305) 673-7610

6985 COLLINS AV
Permit Number : BMISC0045
Status : PENDING

This type of : B.M. MISCELLANEOUS RECEIPTS
(This is NOT a BUILDING PERMIT!)
Parcel number :
Grnd/mezz/upfuse :

Project Name: AUTOVET3
Valuation: 0
Inspection area: N
Date Applied: 10/18/96
Date Approved:
Date Closed:
Date To Expire:

Owner : 6985 COLLINS AVE CORP
Applicant : S T MOGHNIE ENTERPRISE, INC
Applicant Addr : 200 S PINE ISLAND RD STE 287
Job Address : 6985 COLLINS AV
Phone Number : 305 865-2422
Class code : REVIS
Valuation : 0

Permit to CO : PLAN REVISION FEE # 6BPWR1545

*** Activity Fees ***
Fee description — Units — Fee/Unit — Tot Fee — Date

ENTER REVISED PLANS FEE (MAY ITEM) — 150.00 — 150.00
TOTAL MISCELLANEOUS BUILDING FEES — 150.00

INTERIM GEN-PROPRIETARY (REV. FEE) — 150.00
TOTAL ALL MISCELLANEOUS FEES — 150.00
*** Fees Required *** — *** Fees Collected & Credits *** — 0.00

Fees 150.00 — Total Credits 0.00
Adjustments .00 — Total Payments 150.00
Total Fees 150.00 — Balance Due .00

Receipt No. — Date — Payment
19 — 10/19/96 — 150.00

Distribution: 1= City Accounting Division, 2= Applicant, 3= Office Copy

B8801045R

PERMIT #

B.P- 2015

.....

ADDRESS :

METROPOLITAN DADE COUNTY, FLORIDA

METRO-DADE

METRO DADE CENTER

ENVIRONMENTAL RESOURCES MANAGEMENT

May 11, 1988

Jose Alberni, Pres.
Alben Group Inc.
P.O. Box 49-0512
Key Biscayne, FL 33149-0512

RE: APPLICATION FOR VARIANCE OF CHAPTER 11C OF THE METRO-DADE COUNTY CODE (BURGER KING RESTAURANT)

Dear Mr. Alberni:

We have been informed that the data you had submitted with your application for a variance on the property located at 6385 Collins Avenue in Miami Beach was based on Mean Low Water U.S.C.E. datum instead of NGVD, therefore the elevations referred to in our letter of May 3, 1988 are incorrect.

Please find attached a corrected letter variance dated May 10, 1988 which supersedes our previous letter of May 3, 1988. This new letter variance has been corrected to reflect the difference of 0.78 between the two datums.

If you have any additional questions, please call Mr. Szpor of this office.

Sincerely,

Carlos Espinosa, P.E.
Chief, Water Management Division

JB:vpc

Enclosure

cc: Jerry Wallace
City of Miami Beach
Alberto Urrechaga, Dade County B & Z

METROPOLITAN DADE COUNTY, FLORIDA

METRO DADE CENTER

ENVIRONMENTAL RESOURCES MANAGEMENT

May 10, 1988

Jose G. Alberni, President
The Alben Group Inc.
691 Warren Lane
Key Biscayne, FL 33149

RE: PROPOSED BURGER KING RESTAURANT
6985 COLLINS AVENUE, MIAMI BEACH, FL
SEC 11, TOWNSHIP 53 S, RANGE 42 E

Dear Mr. Alberni:

Your application for a variance to the requirements of Chapter 11C-5(a) of Dade County code on the above mentioned property has been reviewed by our staff.

This property is located in a Flood Zone AE with a required base flood elevation of +8.0 ft. The County Flood Criteria is +5.0 feet. The outside grade elevation is +4.79 and the lowest floor elevation of the existing building is at +5.41 feet. You are requesting to allow the renovation of the proposed restaurant to remain at the existing elevation of +5.41 instead of the required +8.0 feet NGVD. All elevations refer to N.G.V.D.

According to your letter of intent it would be an unnecessary hardship to raise the floor to the required flood elevation due to the following reasons.

a) A 220 square feet of ramp will be required which would eliminate 36 seating spaces or 32% of the total seats.

b) A substantial part of the kitchen and the bathroom area has a mezzanine on top of it that belongs to a separate part of the building. Raising the floor would cause the loss of the restroom requirement and would make 1000 square feet useless.

c) The acquisition of additional space to compensate for the area lost would result in additional $100,000 cost over the life of the lease.

Our review of this application indicates that this property is located in a flood zone that is not subject to wind and wave action. If the requirement is fully enforced it would cause severe hardship to the restaurant owner and specially for the customers of this business to get in and out of the restaurant.

Therefore, for all the above I hereby grant a variance to allow the lowest floor elevation of the proposed Burger King Restaurant to be at +5.41 feet N.G.V.D. in lieu of the required +8.0 feet NGVD subject to the following condition:

This variance in granted only for the proposed Burger King Restaurant. All new electrical equipments, switches, water heating tanks, heaters, air conditioning and electrical generator must be at or above the regulatory flood level of +8.0 feet NGVD.

Your are hereby admonished that the granting of this variance will not relieve the owner from the added cost of flood insurance for building below the flood level.

This letter supersedes our previous letter dated May 3, 1988. If you have any additional question, please do not hesitate to call Mr. Isaac Szpal of this office.

Sincerely,

Anthony P. Clemente
Director

JB:vdc

cc: Alberto Urrechaga, Dade County B & Z Dept.
Jerry Wallace, Dept. Services, Miami Beach

"VAM00488"

8

METROPOLITAN DADE COUNTY FLORIDA

May 3, 1988

Jose G. Alberni, President
The Alben Group Inc.
731 Arvon Lane
Key Biscayne, FL 33149

RE: PROPOSED BURGER KING RESTAURANT
6955 COLLINS AVENUE, MIAMI BEACH, FL
SEC 11, TOWNSHIP 53 S, RANGE 42 E

Dear Mr. Alberni

Your application for A variance to the requirements of [illegible]
[illegible] State of Dade County Code on the above mentioned property has been reviewed by our staff.

This property is located in a Flood Zone AE with a required finish elevation of +8.0 ft. The County [illegible] feet. The outside grade elevation is +5.43 ft. The interior elevation of the existing building is at +5.22 feet. You are requesting to allow the renovation of the interior space to remain at the existing elevation of +5.22 instead of the required +8.0 feet NGVD. All elevations refer to N.G.V.D.

According to your letter of intent it would be an undue hardship to raise the floor to the required finish elevation due to the following reasons:

a) A 200 square feet of ramp with the required slope would eliminate 36 seating spaces or 12% of the total seats.

b) A substantial part of the kitchen and the toilets would be on a mezzanine or top of it that running it to the second floor of the building. Raising the floor would also require a new restroom requirement and would make the kitchen useless.

c) The acquisition of additional square footage for the required area lost would result in additional [illegible] life of the lease.

Our review of this application indicates that this property is located in a flood zone that is [illegible] action. If the requirement is fully [illegible] severe hardship to the restaurant [illegible] customers of this business to get in and out of the [illegible]

Therefore, for all the above I hereby grant a variance to allow the lowest floor elevation of the proposed Burger King Restaurant to be at +6.22 feet N.G.V.D. in lieu of the required +8.0 feet NGVD subject to the following condition:

This variance in granted only for the proposed Burger King Restaurant. All new electrical equipments, switches, air heating tanks, heaters, air conditioning and electrical generator must be at or above the regulatory flood level of +8.0 feet NGVD.

Your are hereby admonished that the granting of this variance will not relieve the owner from the added cost of flood insurance for building below the flood level.

If you have any additional question, please do not hesitate to call Mr. Isaac Sinai of this office.

Sincerely,

Anthony J. Clemente
Director

JB:vpc

cc: Alberto Urrechaga, Dade County B & Z Dept.
Jerry Wallace, Dept. Services, Miami Beach

"VAR03488"

CONSTRUCTION SERVICES DEPARTMENT

ENGINEERING PLANS REVIEW

B88011B3

[illegible]

THIS [illegible] SUBMITTED TO THIS DEPARTMENT NEEDS THE FOLLOWING CORRECTIONS

[illegible]

[illegible]

[illegible]

DADE COUNTY DEPARTMENT OF PUBLIC HEALTH
FOOD HANDLING ESTABLISHMENT
PLAN REVIEW

Date: 4-6-82

Plans: ( ) New Construction
( ) Alteration for a New Establishment
( ) Alteration of an Existing Establishment

( ) Food Processing
( ) Food Service
( ) Food Outlet

To be known as: [illegible]

Located at: [illegible]

Owned/Operated by: [illegible]

These plans have been reviewed and APPROVED X ✓ DISAPPROVED ____ subject to the following requirements:

(APPROVAL GRANTED BY THIS INSTRUMENT IS FOR THE PLANS REVIEWED AND NOT THE EQUIPMENT INSTALLED, MATERIALS USED, NOR ANY ASPECT OF THE CONSTRUCTION).

1. Comply with Chapter 10D-9, Florida Administrative Code, in reference to toilet facilities.

   a. Those take-out establishments which make no provisions for consumption on premises and have (9) nine or more employees working at any given time are required to provide (2) two employee restrooms.
   b. Minimum fixtures for eat-in establishments.
      Men's: 1 commode, 1 urinal, and 1 handsink.
      Ladies': 1 commode and 1 handsink.
   c. Under sink grease interceptors are not allowed in the food preparation area.

2. Comply with Florida Administrative Code, Chapter 10D-13, Food Service; Chapter 10D-14, Food Processing; Chapter 10D-15, Food Outlet. And in all respects including the following:

Shown on Plan	Provide	
X ✓		Three-compartment sink with hot and cold running water. (When sanitizing with hot water the final rinse temperature must be maintained at 170° F. with a booster heater.)
X ✓		Two-compartment sink with hot and cold running water.
X ✓		Drainboards provided for three/two compartment sink or moveable dishtable or shelves.
X ✓		Utility sink.
X ✓		Approved local exhaust ventilation installed over all cooking units which release appreciable quantities of steam, oil, grease or smoke.
X ✓		Hot and cold water supplied to all [illegible]
—	—	A [illegible]

Checks	Variance	
	—	Digger well for water supply [illegible]
X	r	Water heater. (Must be of adequate size for all operations using hot water).
X	r	Vestibule(s) for toilet room(s).
	X r	Adequate protection against the entrance of vermin at all openings.
	X r	Adequate garbage disposal facilities.
	X r	Adequate refrigeration facilities.
	X r	Adequate restroom fixtures for seating capacity.
	X r	Walls and floors of a smooth, durable and easily washable impervious material. (Exposed studs, rafters and joints are not allowed in food preparation areas, washing areas, or toilet rooms).
	X r	A cove-type baseboard at juncture of walls and floors.
	X r	Seal all stationary equipment to walls or leave adequate space from walls for cleaning.

ADDITIONAL REQUIREMENTS:

I understand that an inspection of this establishment will be made for ALL requirements of the above indicated Chapter(s).

APPROVED FOR PERMIT:

Signed: _____

Plan reviewed by: [signature]

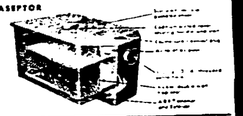
Sanitarian

Date: _____

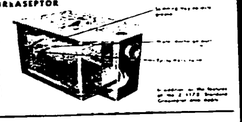
635 4911

ZURN Engineered GREASEPTORS

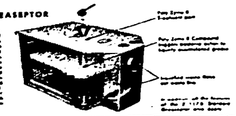
Z 1170 ZURN "STANDARD" GREASEPTOR



Z-1173 ZURN "EJECTO-MATIC" GREASEPTOR



ZE 1170 ZURN "POLY-ZYME" GREASEPTOR



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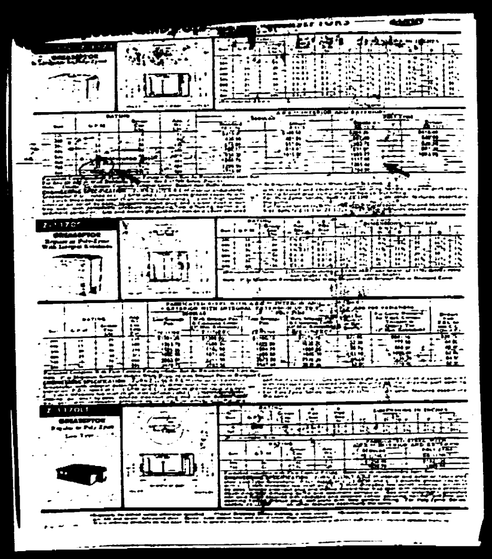
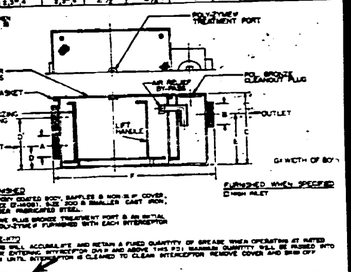


DIMENSIONS ± .0-.031" TO MANUFACTURING TOLERANCE

SIZE GPM	GREASE CAP. LBS.	A INLET	A OUTLET	B	C	D	*D'	E	F	G
100	4	8	1½ I.P.	8"	10	3⅝	7⅛	7⅛	17⅞	23⅝
200	7	15	1½ I.P.	8"	10	3⅝	9⅛	9⅛	19⅛	13⅛
300	10	20	1½ I.P.	8"	10	3⅝	9⅛	9⅛	23	13⅛
600	15	30	1½ I.P.	8.25"	13⅝	3⅝	11⅝	11⅝	23	16⅝
900	20	40	1½ I.P.	8.25"	13	4⅝	11⅝	11⅝	27⅜	17⅝
1200	23	90	2" I.P.	8.25" x 11"	17	4⅝	13½	13½	29⅜	20
2400	23	90	2" I.P.	8.25" x 11"	17	4⅝	16⅛	16⅛	29⅜	23⅝
3700	30	90	2" I.P.	8.25" x 11"	17	4½	16⅛	16⅛	29⅜	24⅝
5000	30	90	2" I.P.	8.25" x 11"	2½	2½	16⅛	16⅛	35⅜	24⅝

TO RECOMMENDED SIZE
IF ADD "BL" TO DIM. NOTE
IF INLET & OUTLET IS SPECIFIED



REGULARLY FURNISHED
ACID RESISTING EPOXY COATED BODY, BAFFLES & NON SEPTIC COVER.
ACID RESISTING EPOXY COATED CAST IRON INLET & OUTLET FITTINGS, FLOW CONTROL TEE (2" SIZES). SIZE 200 & SMALLER CAST IRON; SIZE 300 & LARGER FABRICATED STEEL.

XT - SAME AS ABOVE PLUS BRONZE TREATMENT PORT & AIR RELIEF SYSTEM. SUPPLY OF POLY-ZYME® FURNISHED WITH EACH INTERCEPTOR

OPERATION OF Z-4170
ALL INTERCEPTORS WILL ACCUMULATE AND RETAIN A FIXED QUANTITY OF GREASE WHEN OPERATING AT RATED FLOW. ANY GREASE ENTERING INTERCEPTOR OVER AND ABOVE THIS FIXED MAXIMUM QUANTITY WILL BE FLUSHED INTO DRAINAGE SYSTEM UNTIL INTERCEPTOR IS CLEANED TO CLEAR INTERCEPTOR REMOVE COVER AND SKIM OFF GREASE

OPERATION OF ZE-4170
BY THE ADDITION OF POLY-ZYME® (A DRY, GRANULAR, MULTIPLE ENZYME & BACTERIAL CONCENTRATE) THROUGH REGULAR ADDITION OF POLY-ZYME® (A DRY, GRANULAR, MULTIPLE ENZYME & BACTERIAL CONCENTRATE) THROUGH TREATMENT PORT LIQUIFIES ACCUMULATED FATS AND GREASE & MAINTAINS PROPER CONCENTRATIONS OF ENZYMES TO CONTINUALLY DIGEST ACCUMULATED FATS AND GREASE. LIQUIFIED FATS AND GREASE PASS FREELY FLOW THROUGH INTERCEPTOR DISCHARGING SOLUBLE COMPONENTS IN NORMAL WASTE DISCHARGE OFF PERIODICALLY PRODUCTS TO SEWER WITH FREQUENCY DEPENDING ON AMOUNT OF GREASE ENTERING INTERCEPTOR. ONLY SMALL AMOUNTS OF GREASE SHOULD BE ACCUMULATED BETWEEN CLEANINGS. TO REMOVE THE COVER, UNSCREW THE 2 BRONZE BOLTS AT OPPOSITE ENDS OF THE TOP COVER. ADD ONE GALLON OF POLY-ZYME® BY REMOVING TREATMENT PLUG AS OUTLINED ON INSTRUCTION DECAL REMAINING PRODUCT IN UNIT

FOR GREASEPTOR WITH EXTENSION - SEE REVERSE SIDE

* REGISTERED TRADE MARK	PRODUCT NUMBER
REGULAR GREASEPTOR	Z-4170
POLY-ZYME® SELF-CLEANING GREASEPTOR	ZE-4170

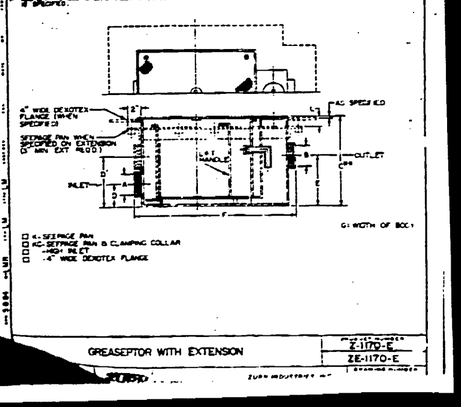
© 1984 SPECTEC ZURN INDUSTRIES, INC. SPEC FOE

11. 14. 86 01:21 PM SPEC-TEC POMPANO P.02

DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCE

S-SIZE	G.P.M.	CAPACITY LBS.	A	B	C**	D	D'	E	F	G	L
200	10	50	11¾"	2.38"	11⅝	3⅝	8⅛	8⅛	23	19⅛	1⅝
400	15	50	11¾"	2.38"	13⅝	3⅝	8⅛	10⅛	25	21⅛	1⅝
500	20	60	11¾"	2.38"	15	3⅝	11⅝	11⅝	27⅛	23⅛	1⅝
600	25	90	13.25"	2.38"	17	4⅛	12⅛	13⅛	29⅛	25	1⅝
700	30	90	13.25"	2.38"	19	4⅛	14⅛	15⅛	31⅛	27⅛	1⅝
800	35	100	13.25"	2.38"	21⅛	4⅛	16⅛	17⅛	33⅛	29⅛	1⅝

* RECOMMENDED SIZE
** DIMENSION MAY BE INCREASED OR DECREASED TO SUIT STANDARD UNIT HEIGHT.
A SPECIFY "A" WIDE FLANGE IF SPECIFIED.



A - SETBACK PAN
AC- SETBACK PAN & CLAMPING COLLAR
-HIGH INLET
-A" WIDE DENOTES FLANGE

GREASEPTOR WITH EXTENSION

Z-1170-E
ZE-1170-E

Sizing Formula To Determine Correct Size Zurn Greaseptor

Single Fixture Installations

STEP NO. 1
Cubic content of a fixture = length × width × depth.
Example: A 3 compartment Scullery Sink measures 54" × 27". Each compartment 18" × 24" × 12" = 5,184 cubic inch area; 3 × 5184 = 15,552 total cubic inch area for 3 compartments

STEP NO. 2
Content in cubic inches divided by 231 = capacity in U.S. gallons.
Example: $\frac{15,552}{231}$ = 67 U.S. gallons

STEP NO. 3
Since experience shows that a sink or fixture is seldom filled to the brim and the drains, pots or pans displace approximately 25% of the water, we suggest 75% of the actual fixture capacity be used as a basis to establish the drainage load
Example: 75% of 67 U.S. = approx. 50 U.S.G. drainage load

STEP NO. 4
The most generally accepted drainage period is one minute. Conditions may exist however, (as on any given project) whereby a longer drainage period could be considered. Therefore, flow rates for this example would be :—

Drainage Load in Gallons ÷ Flow rate in GPM
Drainage Load in Minutes

Therefore flow rates for this example would be :—
50 GPM for 1 minute total drainage
25 GPM for 2 minute total drainage (should a longer period be desired)

STEP NO. 5
Once you have arrived at the GPM it is very easy to select the greaseptor required from the following pages. Consideration should be given to the location of the greaseptor. Use of reverse will determine whether you will need a regular ZE 1170 series (Poly Xylene type), ZE 1170 S series (steel with protection), ZE-1170-LT series (Low type for under counter use), or ZE 1170 R (New type for under counter, use L or ZE 1170 R series (recessed receiver) Whichever you choose will be identified by a plate attached to the cover manifesting the official "Plumbing Drainage Institute" rating in GPM For How To Size A Greaseptor Should Be Located As Close To Fixture As Possible.

Multiple Fixture Installations

Caution should be exercised here. A deterrent to successful multi-fixture installation is the distance usually existing between fixtures The greater the distances between fixtures and greaseptor the greater probability the greases and oils will coagulate before they enter the interceptor, the waste line before they enter the interceptor, thus causing continual line stoppage and extreme repair and maintenance costs Having considered the factors, and the project requires a multi fixture installation, proceed as follows:

STEP NO. 1
Follow steps No. 1 and No. 2 under single fixture installation. This procedure should followed for each fixture in the system to establish the GPM for each fixture.

STEP NO. 2
Establish the maximum number of fixtures which are to be drained simultaneously to the interceptor.

STEP NO. 3
Add the GPM requirement of each fixture arrive at a total drainage load. Follow as procedure as steps No. 3 and No. 4 under "Single Fixture Installations".

Z-1409

Caution: In case a grease interceptor is required for maximum grease interception with any one fixture, a grease interceptor is recommended for installation between the fixture(s) and the Greaseptor and the Greaseptor should be used as a secondary interceptor. In installations with plumbing control valves, all plumbing grease to be trapped must drain downstream from the control valve or downstream from the discharge of the Greaseptor

VICINITY SKETCH
SCALE: 1" = 100'

ATLANTIC OCEAN

10

OFFICIAL COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

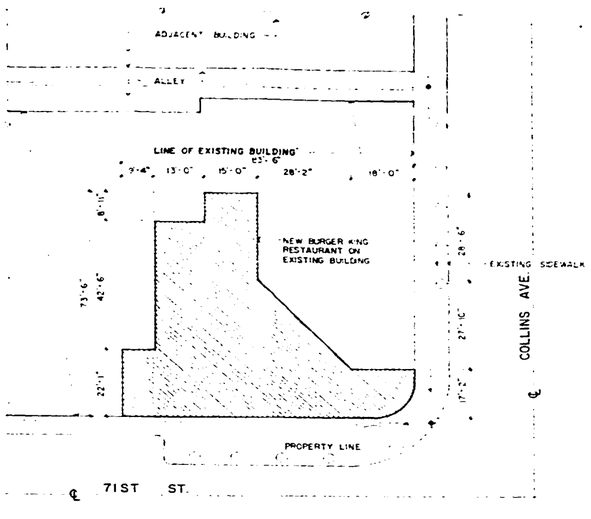
SURVEY FOR:
LEIL MEYERS

ZURWELLE WHITTAKER, INC.
CONSULTING ENGINEERS AND SURVEYORS
1680 MICHIGAN AVE. SUITE 700 MIAMI BEACH, FLORIDA 33139

DATE	SCALE	DRAWN BY	CHECKED BY
1-5-93	1"=10'	E.R.	J.C.

REVISIONS	DESCRIPTION

8



SITE PLAN
1/16" = 1'-0"

LEGAL DESCRIPTION:
A PORTION OF LOTS 1 & 2, BLOCK 10, NORMANDY BEACH SOUTH, A SUBDIVISION RECORDED IN PLAT BOOK 21, PAGE 54 OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA LOTS 1 & 2 BOUNDED ON THE EAST BY THE EROSION CONTROL LINE CONTAIN 33,300 SQUARE FEET, MORE OR LESS OR 0.764 ACRES, MORE OR LESS

BURGER KING RESTAURANT

6985 COLLINS AVE. MIAMI BEACH, FLORIDA

SITE NO. PROJECT NO. 8716

FRANCHISEE: JOSE G. ALBERNI

ARCHITECT: HERVIN ROMNEY ARCHITECT, INC.

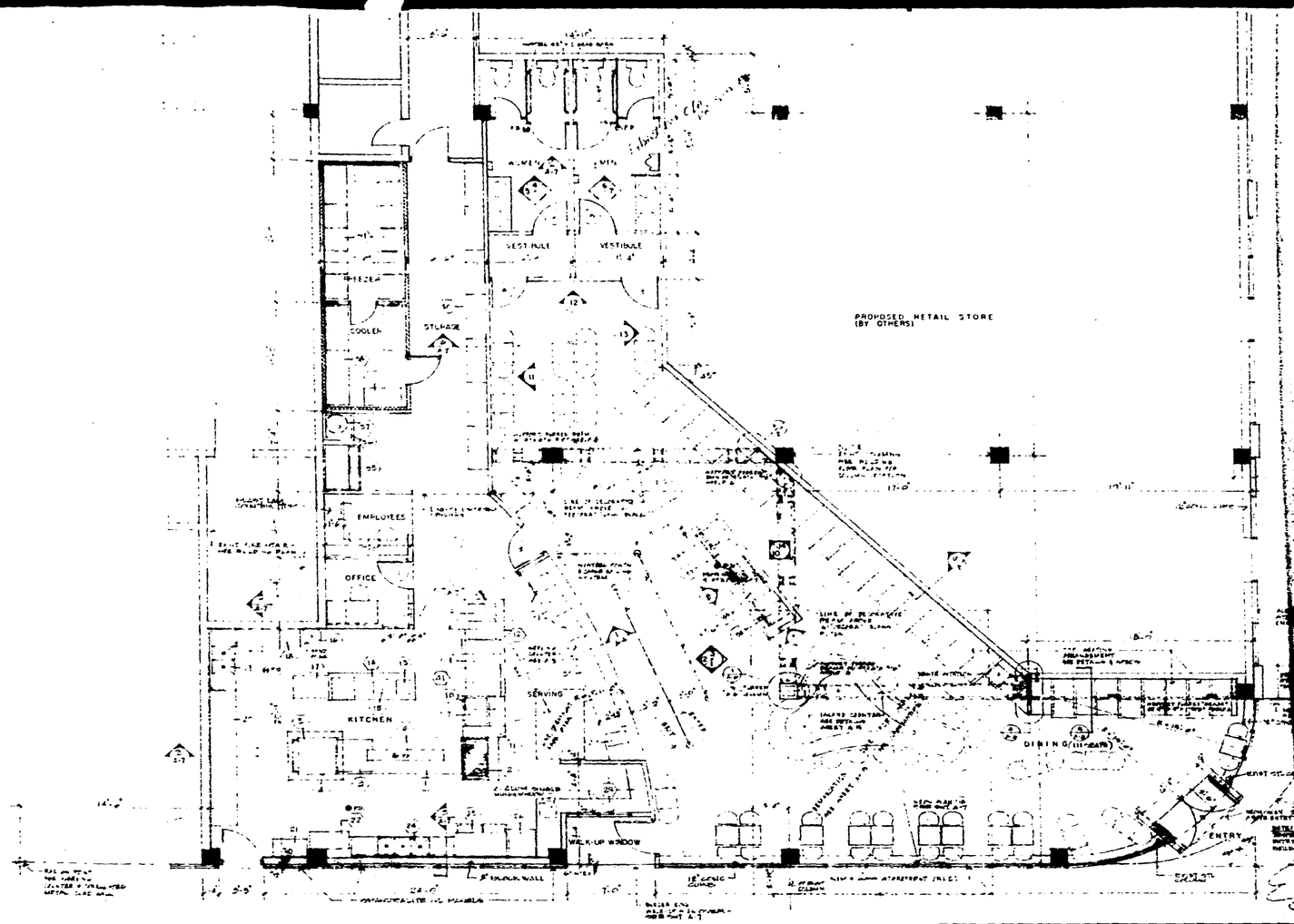
CONSULTING ENGINEER: FRAGA ENGINEERS

OFFICE COPY
APPROVED FOR PERMIT BY
THE FOLLOWING

APPROVED - SUBJECT TO ENGINEERING CRITIQUE

HERVIN ROMNEY ARCHITECT

8



FLOOR PLAN
1/4" = 1'-0"

KITCHEN EQUIPMENT LEGEND

NO	QTY	DESCRIPTION
1		
2		
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4		
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33		
34		
35		
36		
37		ICE DISPENSER
38		SELF SERVICE ICE & BEVERAGE STATION
39		REMOTE ICE MACHINE
40		FLOOR MOP SINK
41		HOT WATER HEATER (ABOVE)
42		COOLER FREEZER SHELVING
43		" " SHELVING
44		COMPUTRAK

TY OF MIAMI BEACH
"OVED FOR CONSTRUCTION
THE FOLLOWING

APPROVED - SUBJECT TO ENGINEERING CERTIFICATION

ED A SEPARATE BLDG.
11-1A (ZONL ORD. 1851)

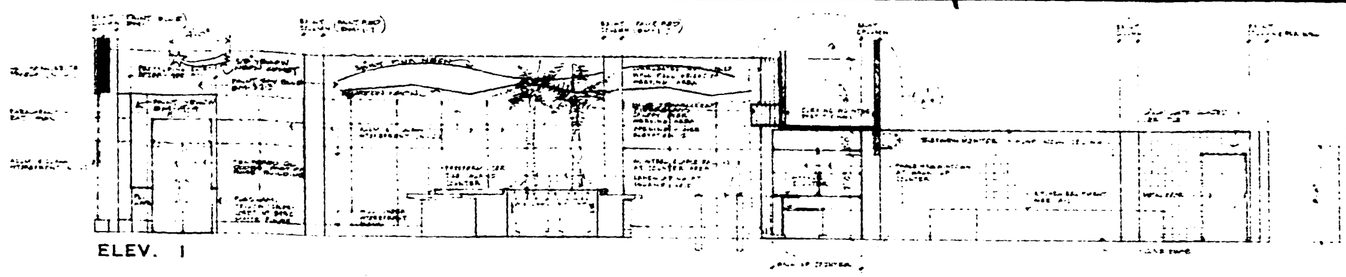
BURGER KING RESTAURANT
AT 6985 COLLINS AVE. MIAMI BEACH

FLOOR PLAN
1/4" = 1'-0"

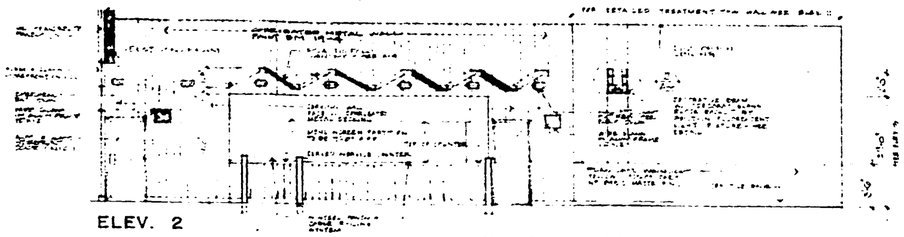
PROJECT NO 8716

DRAWN BY

A-1
(1)



ELEV. 1



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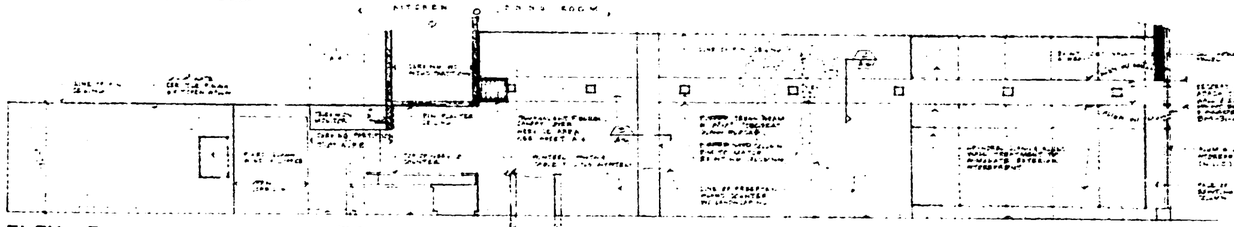
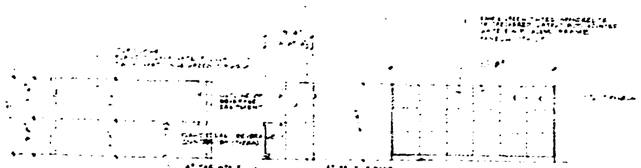
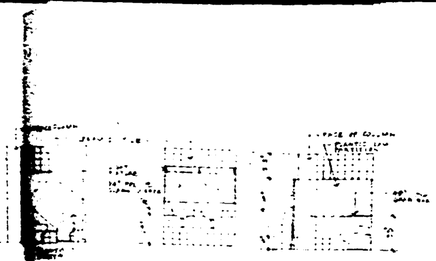


ELEV. 3



8 9 10

DRINKS STAND AND DINING COUNTER ELEVS.



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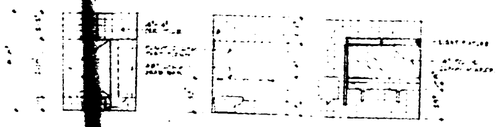
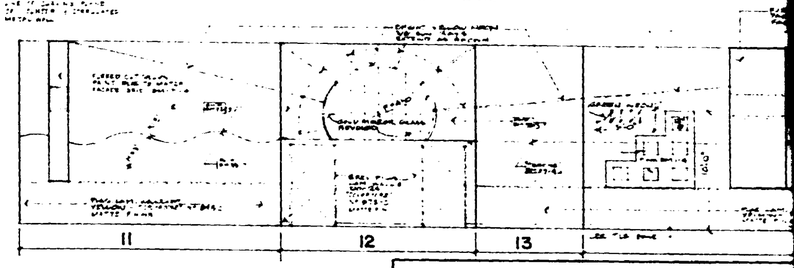
MEN'S TOILET ELEVS.



6 7

MEN TOILET ELEVS.



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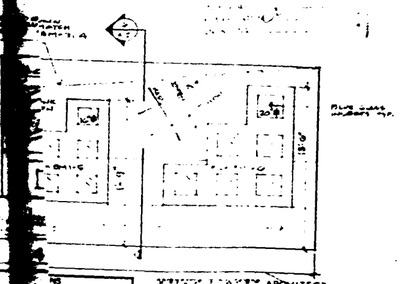

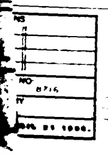

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OF PLANS WHICH

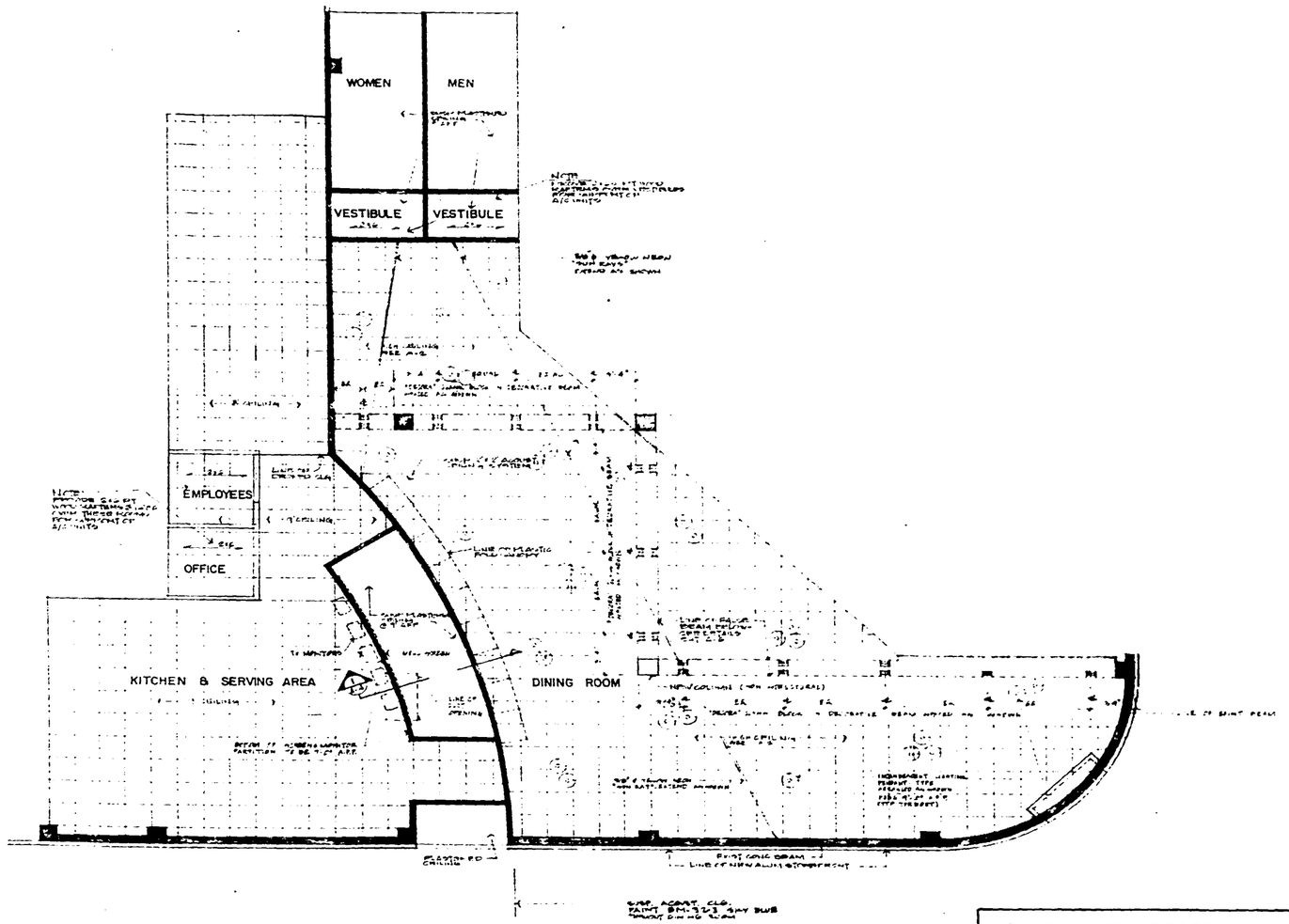
APPROVED FOR PERMIT

THE FOLLOWING

BURGER KING RESTAURANT
AT 6985 COLLINS AVE. ○ MIAMI BEACH

INTERIOR ELEVATIONS
1/4" = 1'-0"

A-2



BURGER KING RESTAURAURANT
AT 6985 COLLINS AVE. ◦ MIAMI BEACH, FL

REFLECTED CEILING PLAN
1/4"= 1'-0"

REVISIONS

PROJECT NO 8716

DRAWN BY

DATE APRIL 21 1988.

A-3

TELEPHONE MESSAGE SHEETS

DATE: _____ PAUL A. GIOIA Building Director

TIME	CALLS OUT	CALLS IN	CALLER	NUMBER	MESSAGE	RESULT
1.						
2.						
3.						
4.						
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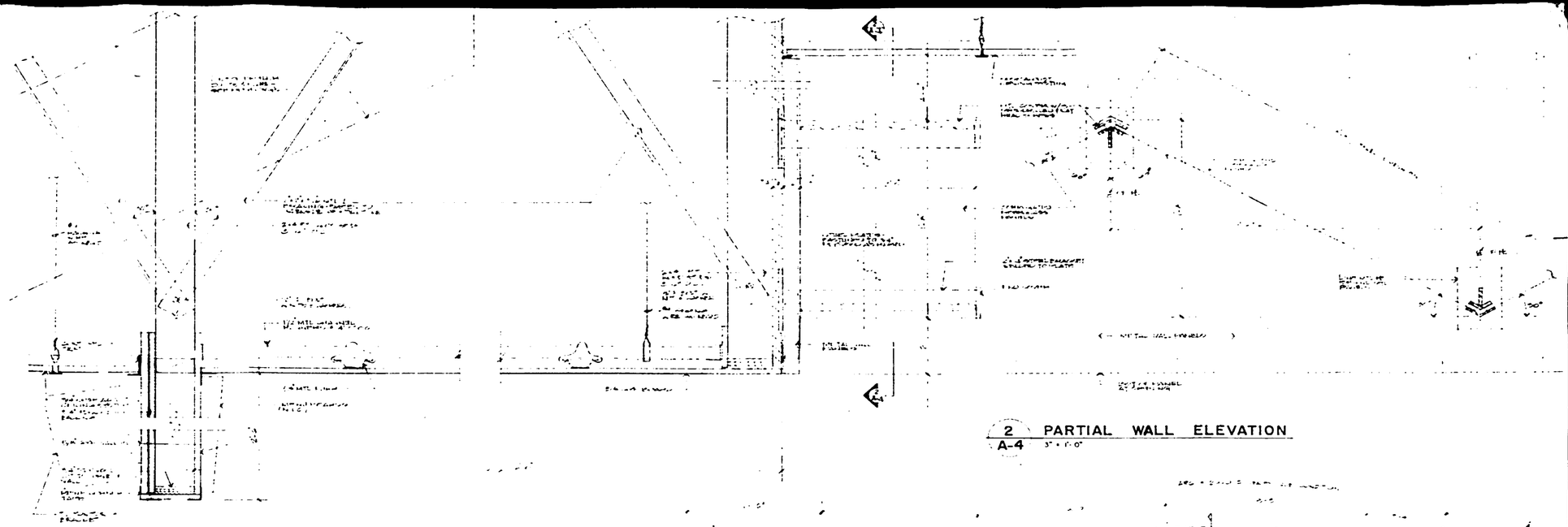
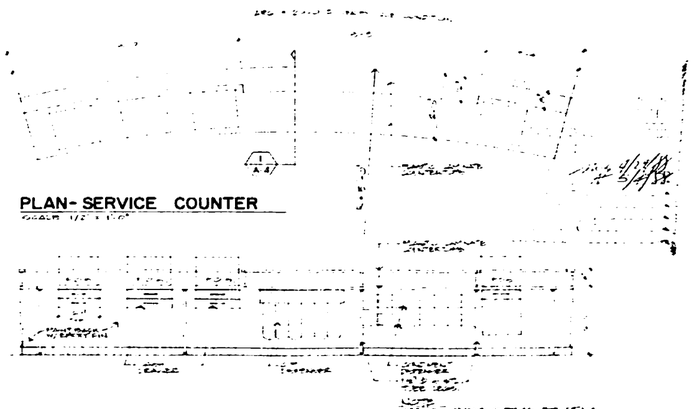
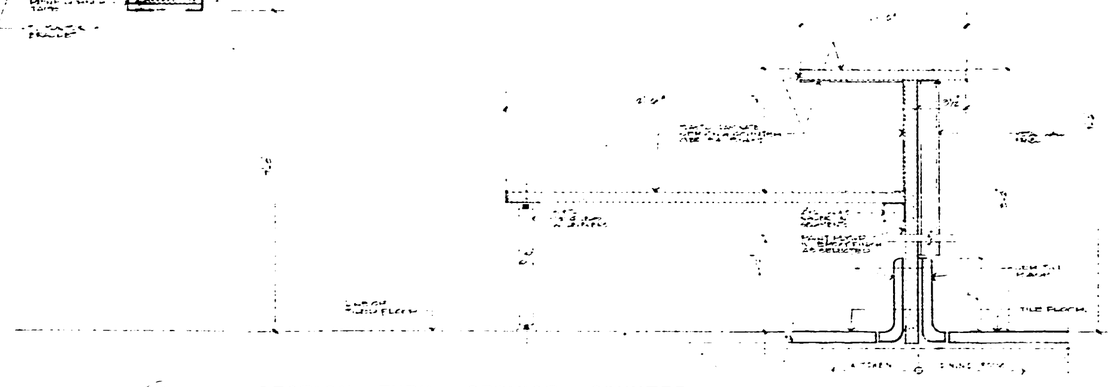
9.						



2 PARTIAL WALL ELEVATION
A-4 3" = 1'-0"



PLAN- SERVICE COUNTER



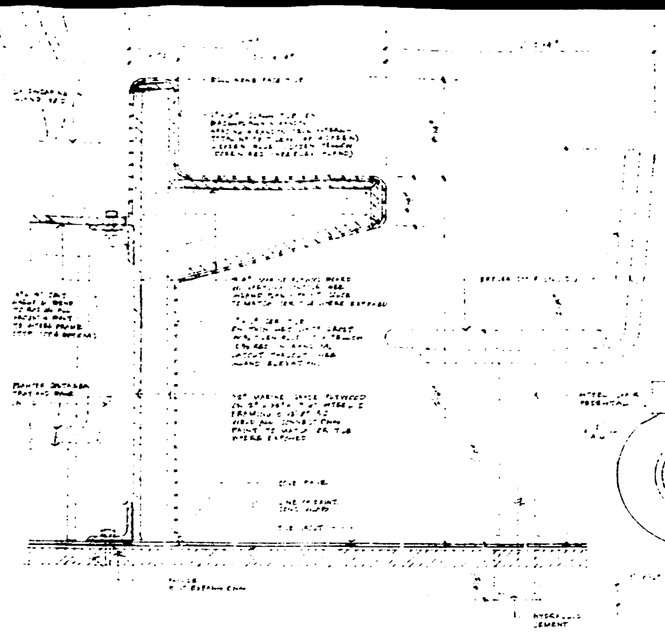
1 SECTION THRU SERVICE COUNTER
A-4 3" = 1'-0"

INTERIOR ELEVATION

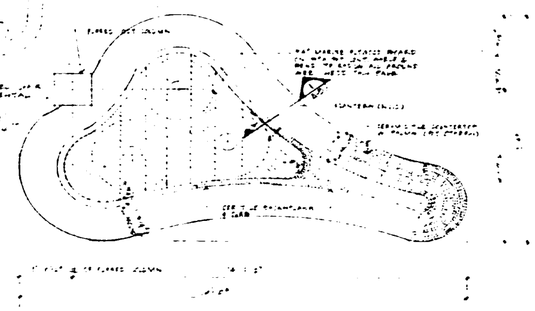
BURGER KING RESTAURANT AT 6985 COLLINS AVE • MIAMI BEACH, FL	REVISIONS
DETAILS	PROJECT NO. 8716 DRAWN BY DATE APRIL 21 1988

ARCHITECT

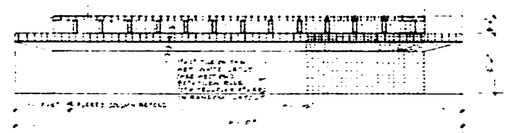
A-4



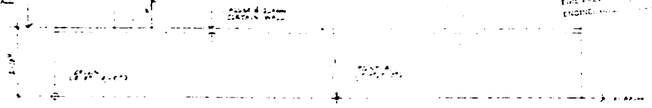
1 / A-5 SECTION THRU ISLAND
3/4" = 1'-0"



PLAN OF ISLAND



ELEVATION OF ISLAND
1/2" = 1'-0"



OUTLINE OF ISLAND
1/2" = 1'-0"

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CITY OF MIAMI BEACH
APPROVED FOR ISSUANCE
THE FOLLOWING

BUILDING	
ZONING	
PLUMBING	
ELECTRICAL	
PUBLIC WORKS	
FIRE PREVENTION	
ENGINEERING	

4/11/88
5/4/88

BURGER KING RESTAURANT
AT 6985 COLLINS AVE. MIAMI BEACH, FL

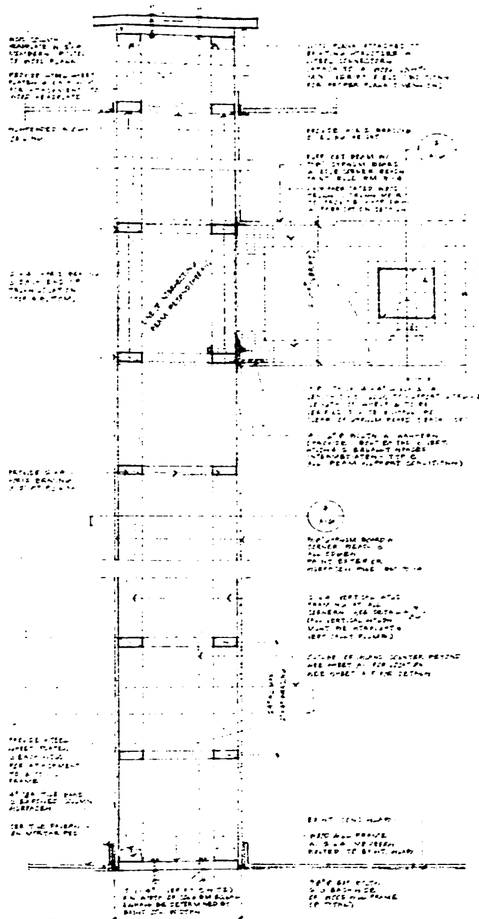
DETAILS

REVISIONS	
PROJECT NO.	8714
DRAWN BY	
DATE	APRIL 25 1988.

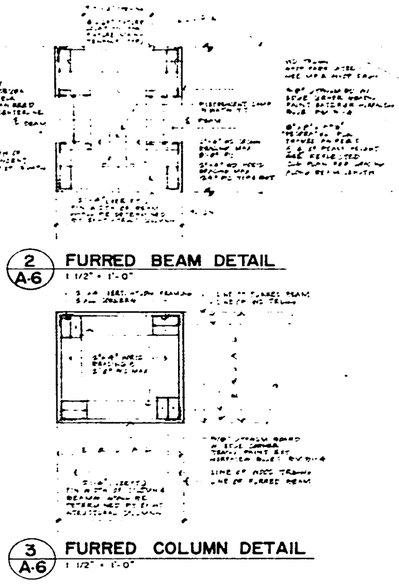
KEEVER & KEEVER ARCHITECT

A-5

8

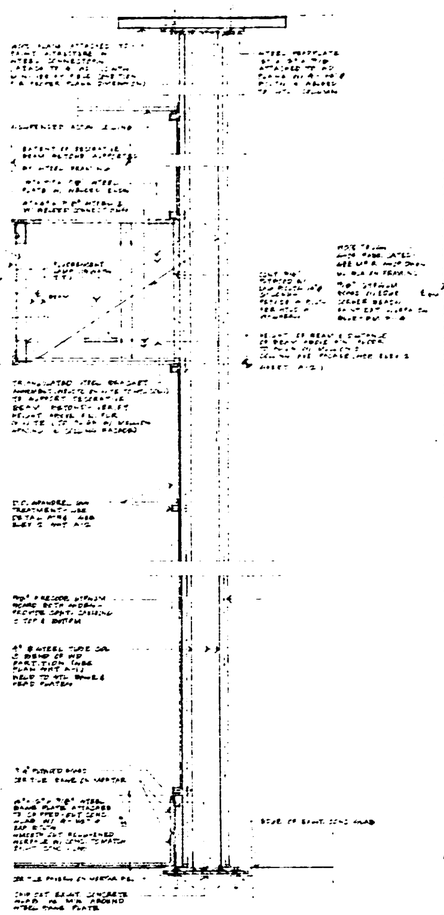


1 / A-6 SECTION OF FURRED COLUMN AND BEAM CONNECTION 1 1/2" = 1'-0"

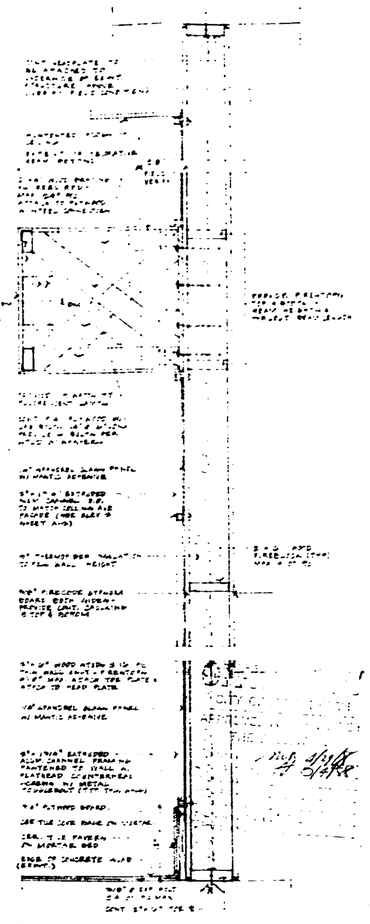


2 / A-6 FURRED BEAM DETAIL 1 1/2" = 1'-0"

3 / A-6 FURRED COLUMN DETAIL 1 1/2" = 1'-0"



4 / A-6 SECTION OF STEEL COLUMN & BRACKET 1 1/2" = 1'-0"



5 / A-6 SECTION OF SPANDRELITE WALL 1 1/2" = 1'-0"

BURGER KING RESTAURANT
AT 6985 COLLINS AVE. MIAMI BEACH, FL

DETAILS

REVISIONS

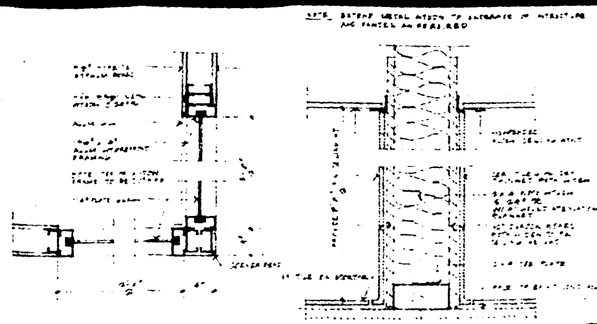
PROJECT NO. 8716

DRAWN BY

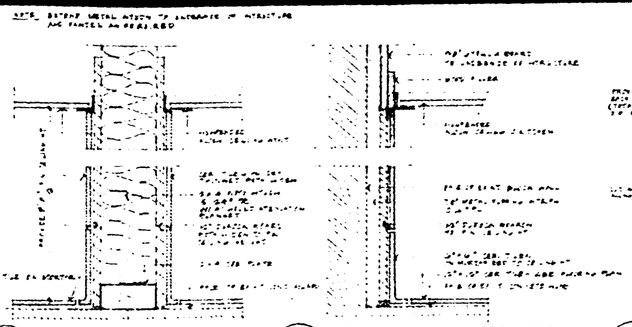
DATE APRIL 01 1988

KERNER & KERNER ARCHITECT

A-6

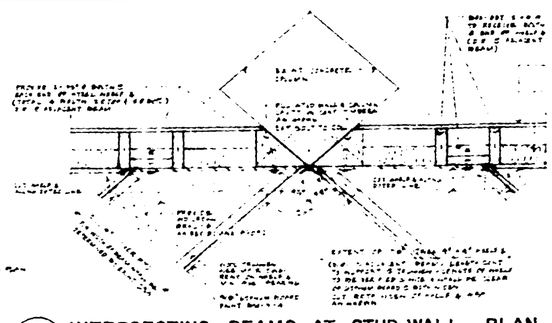


1 A-7 OFFICE WINDOW DET. 1 1/2" = 1'-0"

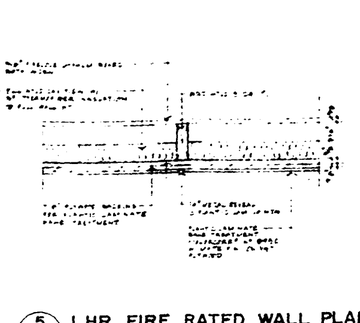


2 A-7 TOILET PARTITION 3" = 1'-0"

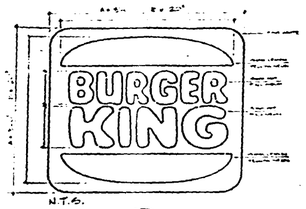
3 A-7 WALL AT KITCHEN 3" = 1'-0"



4 A-7 INTERSECTING BEAMS AT STUD WALL PLAN 1 1/2" = 1'-0"



5 A-7 1 HR FIRE RATED WALL PLAN 1 1/2" = 1'-0"



N.T.S.

NEON SIGN 1

BURGER KING

N.T.S.

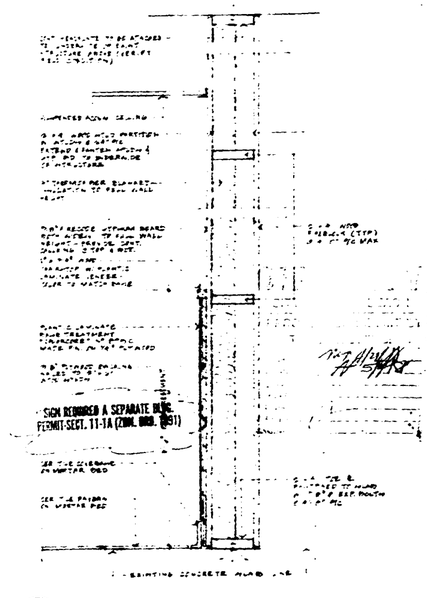
NEON SIGN 2

Drinks

N.T.S.

NEON SIGN 3

SIGN REQUIRED A SEPARATE BLDG. PERMIT-SECT. 11-1A (ZONE ORD. 1891)



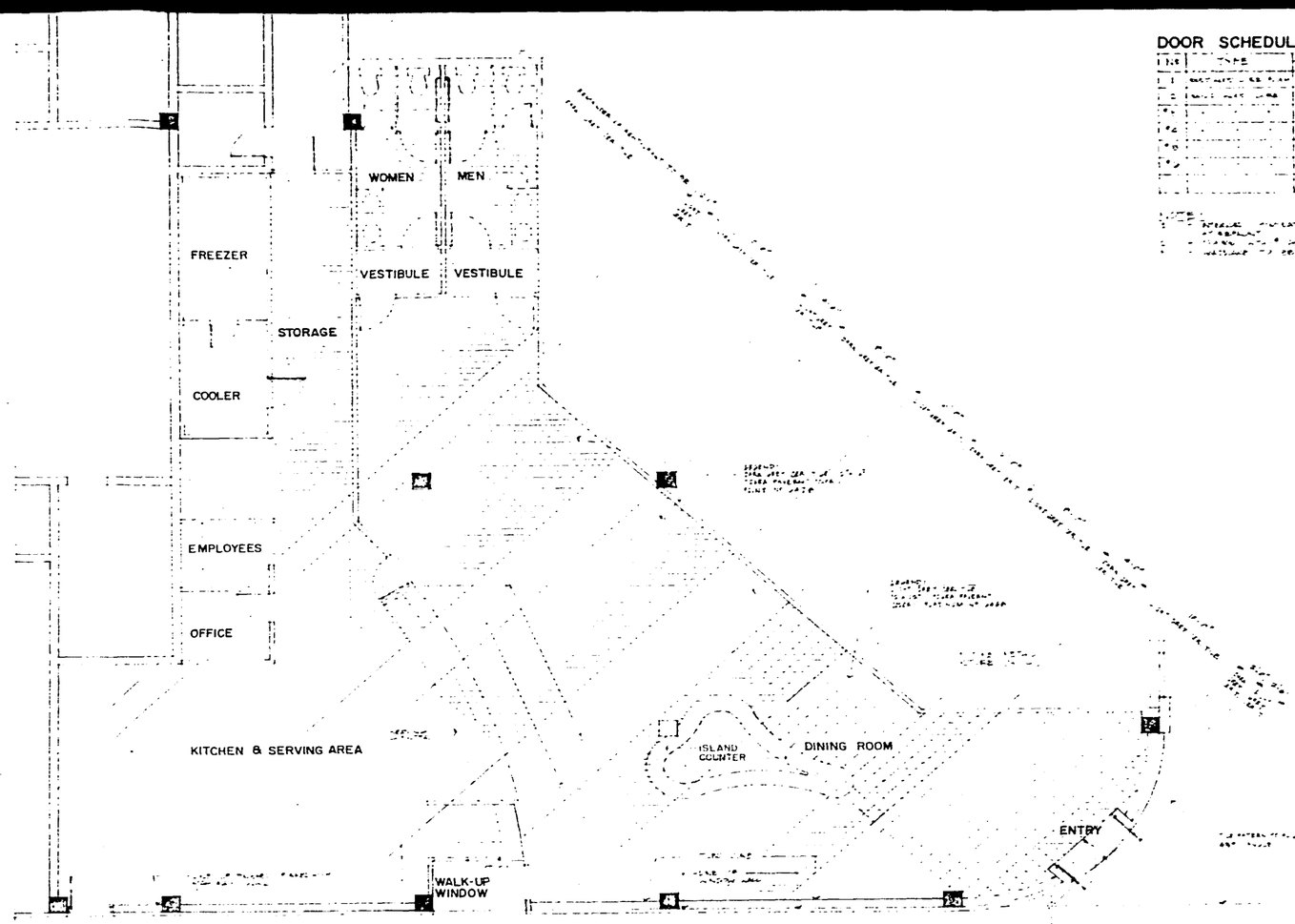
SIGN REQUIRED A SEPARATE BLDG. PERMIT-SECT. 11-1A (ZONE ORD. 1891)

A-7 1 HR FIRE RATED WALL 1 1/2" = 1'-0"

BURGER KING RESTAURANT AT 6985 COLLINS AVE. • MIAMI BEACH, FL	REVISIONS PROJECT NO 8716 DRAWN BY DATE APRIL 29 1980.
DETAILS	

MELVIN KORNEY ARCHITECT

A-7



DOOR SCHEDULES

NO.	TYPE	SIZE			FRAME	REMARKS
1						
2						
3						
4						
5						
6						
7						
8						

NOTES:

BURGER KING RESTAURANT
6985 COLLINS AVE. ○ MIAMI BEACH, FL

PLAN OF FLOORING PATTERN
1/4" = 1'-0"

REVISIONS

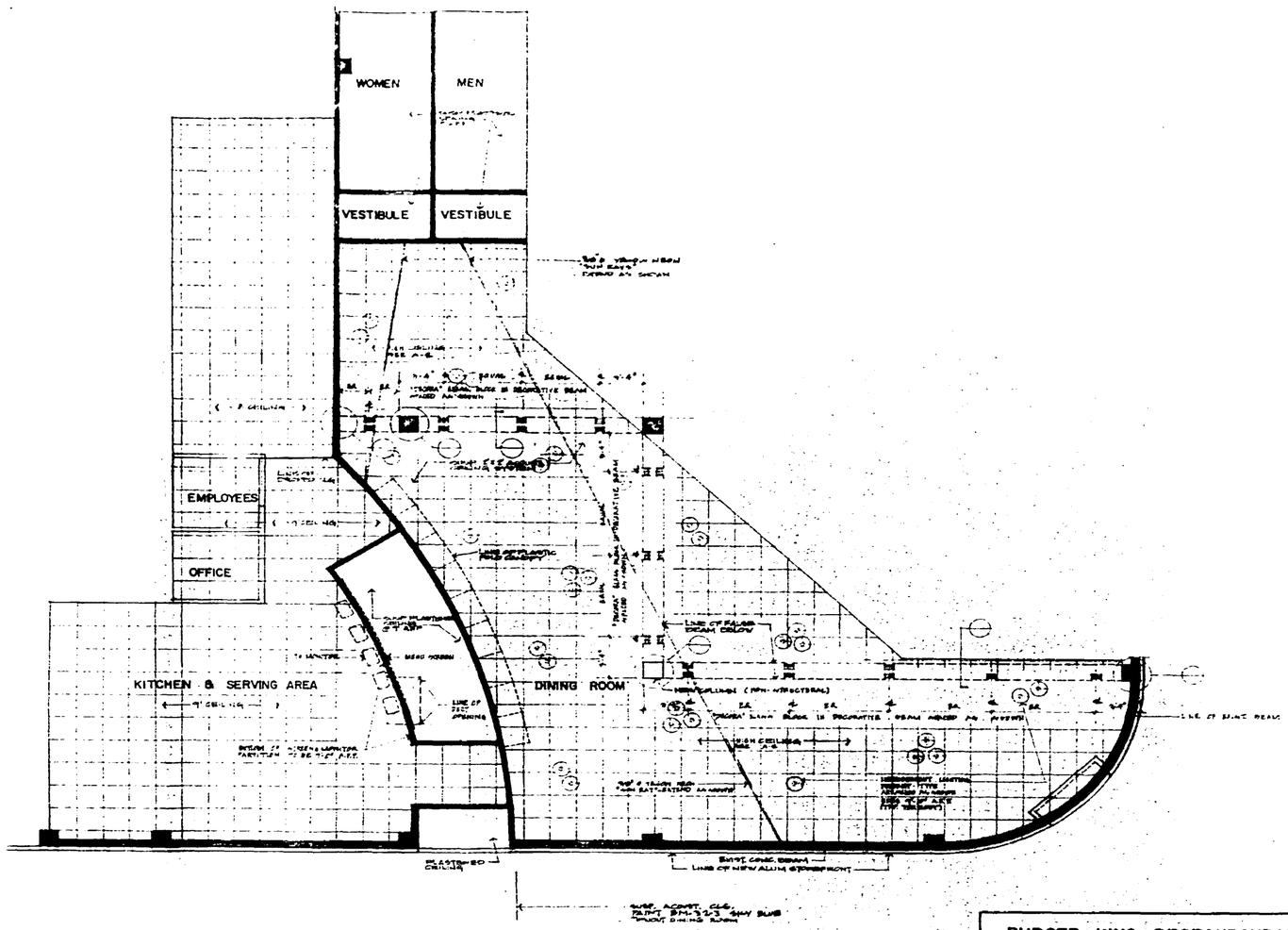
PROJECT NO. 8716

DRAWN BY

DATE APRIL 21 1968.

ARCHITECT

A-8



BURGER KING RESTAURAURANT
AT 6985 COLLINS AVE. ○ MIAMI BEACH, FL

REFLECTED CEILING PLAN
1/4"= 1'-0"

REVISIONS

PROJECT NO. 5716

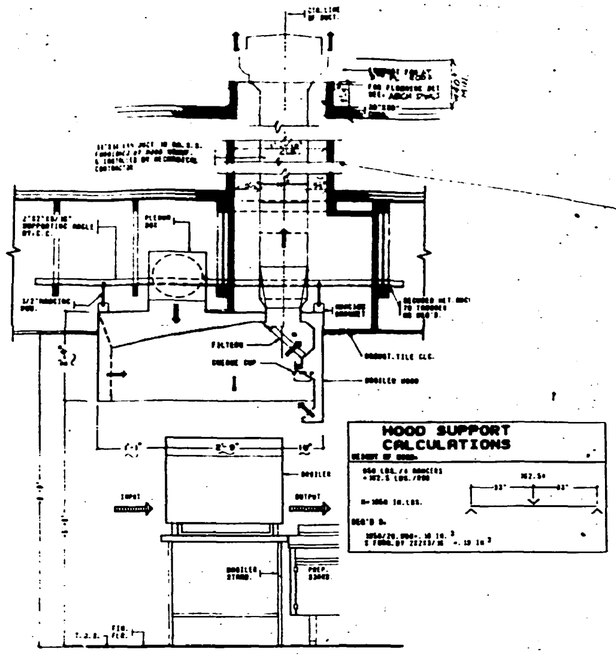
DRAWN BY

DATE

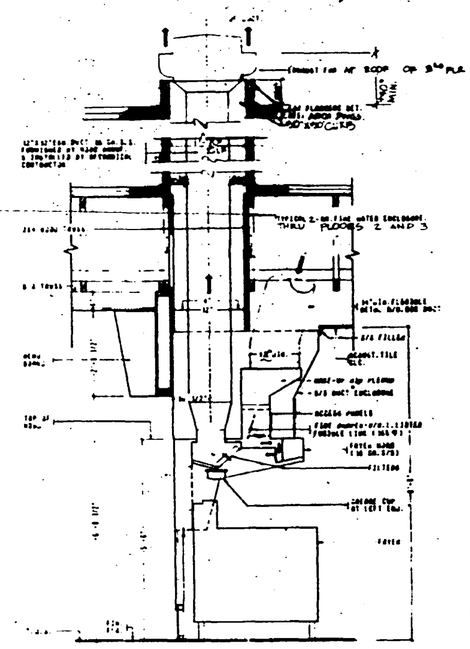
KENNETH KORNEY ARCHITECT

A-9

8



BROILER HOOD SECTION (C)



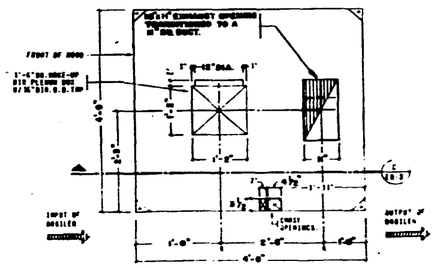
FRYER HOOD SECTION (A)

BK. APPROVED HOODS		
MANUFACTURER	BROILER MODEL NO.	FRYER MODEL NO.
[illegible]	[illegible]	[illegible]

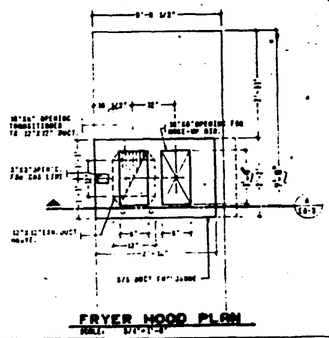
FRYER HOOD:

NOTES:

1. [illegible]
2. FILTERS TO BE U.L. CLASSIFIED GREASE FILTERS
3. [illegible]
4. THE OPERATION OF THE EXTINGUISHING SYSTEM SHALL AUTOMATICALLY SHUT OFF ALL SUPPLY TO GAS OR ELECTRICAL OPERATED EQUIPMENT LOCATED UNDER THE HOOD
5. [illegible]
6. [illegible]



BROILER HOOD PLAN



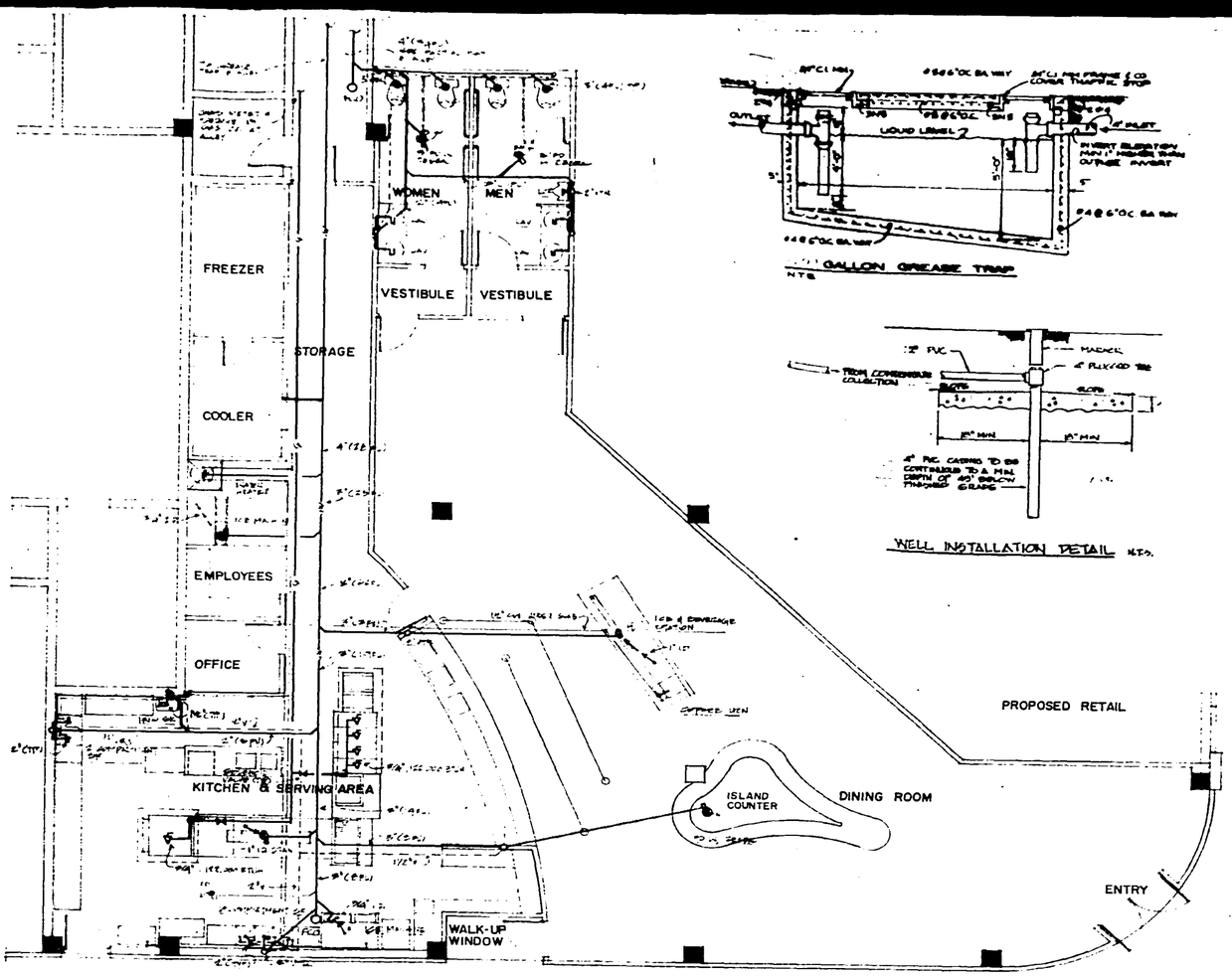
FRYER HOOD PLAN

OFFICIAL COPY
CITY OF [illegible]
APPROVED [illegible]
THE FOREGOING

BURGER KING RESTAURANT
6985 COLLINS AVE. ○ MIAMI BEACH, FL

REVISED: ROMNEY ARCHITECT

EQ-1



BURGER KING RESTAURANT
6985 COLLINS AVE. ○ MIAMI BEACH, FL

REVISIONS

PROJECT NO 8716

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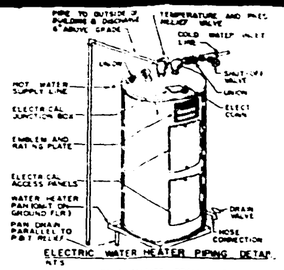
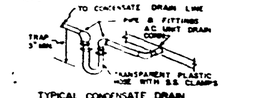
DATE

1/4"= 1'-0"

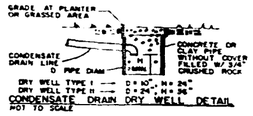
P1



ELECTRIC WATER HEATER PIPING DETAIL
NTS



TYPICAL CONDENSATE DRAIN ARRANGEMENT AT A.C. UNIT
NOT TO SCALE
NOTE: INSTALLATION OF PIPING TO CLEAR FILTER PULL OUT SPACE & SERVICE REMOVABLE PANELS



CONDENSATE DRAIN DRY WELL DETAIL
NOT TO SCALE

NOTES:

1. Provide adapter and install flexible hose connection provided at shake machine. Run copper safewaste line above floor to floor sink if shake machine is water cooled only.
2. Increase V.T.R.'s to size required by local codes and conditions.
3. Provide 2" cellar safewaste line from soda factory to floor drains.
4. Run syrup lines from soda factory to drink dispenser above ckg.
5. Provide safewaste line for hot circulate and tea dispenser if req.
6. Provide condensate lines from A/C units above ceiling according to local code requirements.
7. Reseal floor drains according to local requirements.
8. Safewaste piping above and at ckg floor shall be sized in accordance with local codes requirements.
9. Coordinate safewaste line connections with equipment requirements.
10. P. V. C. (schedule 40) pipe will be used for vents only if approved by local building codes.
11. If walk in box condensate line is required to be piped to waste system by local code then plumbing contractor shall furnish and install 1½" condensate line. And seal around all penetrations through the walk in box.
12. Heat tape is provided by walk in box manufacturer and install by electrical contractor.
13. See foundation plan for exact locations of floor drains and floor sinks.
14. E.C. to coordinate vent stacks with outside air intakes of A/C units and supply fans, & maintain at least 10' (3m) min. clearance or as per local code requirements.
15. Do not scale drawings.
16. General contractor and plumbing contractor shall verify all requirements of this project before bidding and proceeding with work.
17. All hot & cold water piping located above ceiling areas but below roof insulation shall be insulated with 1" fiberglass low pressure type with dual temperature jacket. All hot and cold water piping located outside of building insulation envelope shall be insulated with 2-1/2" thickness (same type as). All underground pipes located inside building to be insulated in flexible polyethylene.
18. Provide separate shut off valves for all equipment requiring water connections. See equipment schedule & service locations on drg. E-0.1.
19. Provide couplings to all equipment as required.
20. If shake machine is water cooled, stub 3/4" cold water line from drink station to service chase.
21. Provide 3/4" diameter air line also to withstand 50lb pressure to run overhead from soda factory down to Kayco 5454 shake machine.
22. Plumbing contractor to furnish & install mechanical gas shut off valves for fire protection system. Valves can be obtained from the fire protection system supplier. Ansul No. 17621-10.

PLUMBING GENERAL NOTES

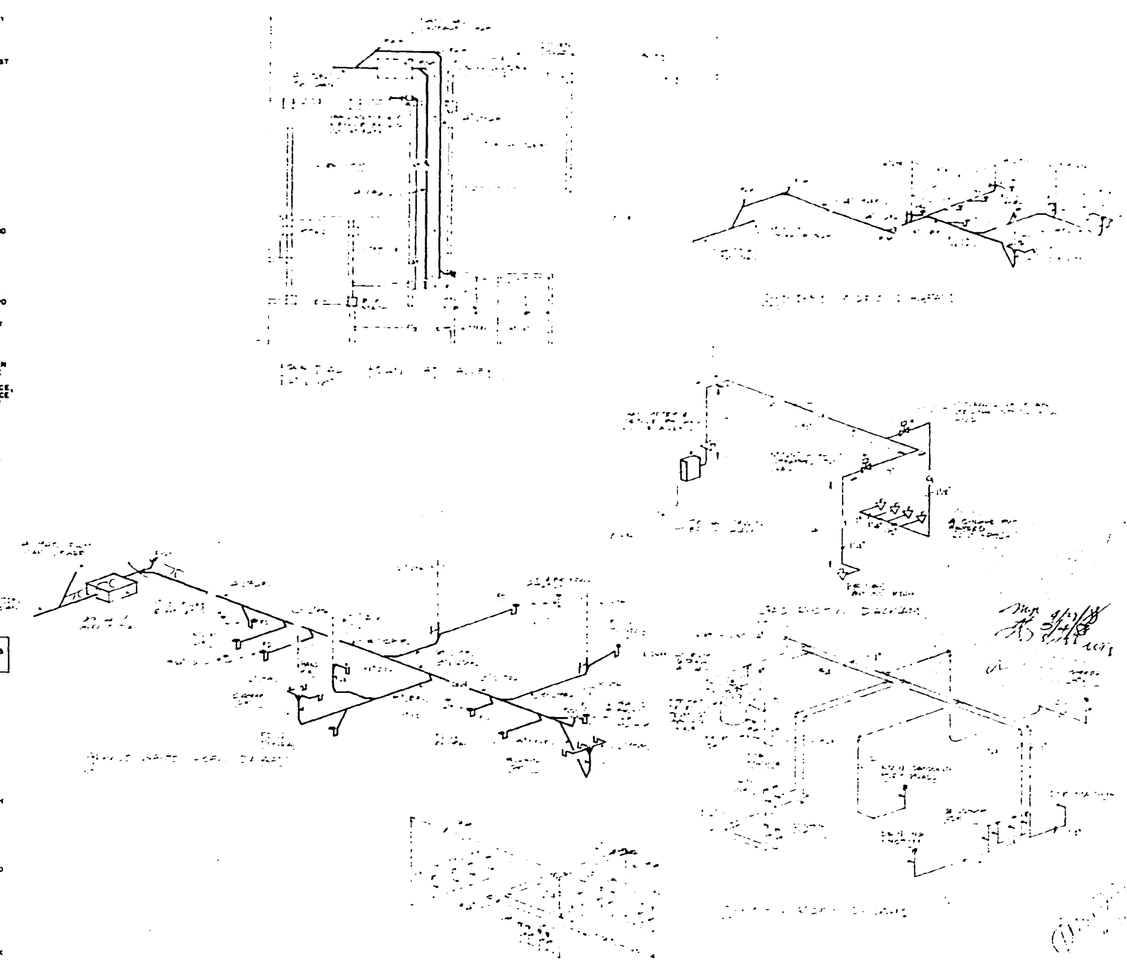
1. ALL WORK TO BE in ACCORDANCE WITH THE LOCAL PLUMBING & BUILDING CODES.
2. BUILDING DRAINAGE SYSTEM DESIGN BASED ON 1/8"/FT SEWER FALL; ANY DEVIATIONS SHALL BE APPROVED BY ARCHITECT & ENGINEER.
3. CONTRACTOR TO PROVIDE 1" (25m) WATER PIPE CAPPED AT EVERY ELECTRICAL SWITCHGEAR ROOM OR METER ROOM TO BE USED AS GROUND.
4. ALL VALVES UNDERGROUND TO BE INSTALLED IN PRECAST CONCRETE BOXES, BROOKS OR EQUAL.
5. PLUMBING CONTRACTOR TO FURNISH ALL REQUIRED FLASHINGS FOR PIPES TO ROOFING CONTRACTOR.
6. MATERIALS SHALL BE ALL NEW & AS FOLLOWS
   A) DRAINAGE PIPING - NO HUB CAST IRON ST.D SCH
   B) WATER PIPING - TYPE K COPPER (UNDERGROUND) TYPE L COPPER (ABOVE GROUND) PIPES COATED WITH ASPHALT
   C) A/C CONDENSATE DRAIN - SCHEDULE 40 PVC
   D) PLUMBING FIXTURES - AMERICAN STANDARD, MOHLER, CRANE OR EQUAL
   E) FLOOR & ROOF DRAINS, IF USED, JOSAM OR EQUAL
   F) ELECTRIC WATER HEATERS - GLASSLINED, 5 YEARS GUARANTEE A O SMITH OR EQUAL
   G) VALVES - 125 PSI NIBCO SCOTT OR EQUAL
   H) HOSE BIBBS CHICAGO 952, OR EQUAL
7. PROVIDE ALL EXCAVATION, BACKFILL & COMPACTION REQUIRED BY ALL PLUMBING WORK.
8. PERFORM THE FOLLOWING TESTS
   A) WATER PIPING SHALL BE SUBJECTED TO HYDROSTATIC PRESSURE TEST OF 100 PSIG FOR A PERIOD OF TIME SUFFICIENT TO EXAMINE ENTIRE SYSTEM BUT NOT LESS THAN ONE HOUR.
   B) DRAINAGE PIPING - BEFORE INSTALLATION OF ANY DRAINS, THE ENDS OF SYSTEM SHALL BE CAPPED AND ALL LINES FILLED WITH WATER TO HIGHEST POINT AND ALLOWED TO STAND UNTIL INSPECTION IS MADE AND WATER LEVEL REMAINS CONSTANT.
   C) CORRECT ALL DEFECTS DISCLOSED BY ABOVE TESTS
9. STERILIZE ALL WATER LINES WITH A MIXTURE OF (2) TWO POUNDS OF CHLORINATED LIME TO EACH 1000 GALLONS OF WATER (50 PPM OF AVAILABLE CHLORINE) RETAIN MIXTURE IN PIPES 24 HOURS AND FLUSH THOROUGHLY WITH POTABLE WATER BEFORE PLACING IN SERVICE.
10. COMPLETE SYSTEM, FIXTURES AND EQUIPMENT SHALL BE GIVEN AN IN-SERVICE TEST AFTER COMPLETION OF THE INSTALLATION.
11. PLUMBING CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE THAT ALL PLUMBING WORK SHALL BE FREE FROM DEFECTS OF MATERIALS & WORKMANSHIP FOR A PERIOD OF ONE YEAR, FROM DATE OF FINAL ACCEPTANCE, AND THAT HE WILL AT HIS EXPENSE REPAIR & REPLACE ALL WORK WHICH BECOMES DEFECTIVE DURING GUARANTY PERIOD.

LEGEND SYMBOLS & ABBREVIATIONS

SANITARY WASTE LINE
SANITARY VENT LINE
ST STORM SEWER LINE
CD A/C CONDENSATE DRAIN LINE
PT P&T RELIEF VALVE DRAIN LINE
INDIRECT SAFEWASTE
G GAS LINE (FUEL)
COLD WATER LINE
HOT WATER LINE
CIRCULATING HOT WATER LINE
F FIRE WATER LINE
SS SITE SEWER MAIN
SW SITE WATER MAIN
FCO FLUSH FLOOR CLEANOUT
CO WALL CLEANOUT
HOSE BIBB
P TRAP
GATE VALVE
GATE VALVE IN VERTICAL LINE
ELBOW DOWN
ELBOW UP
TEE DOWN
TEE UP
CHECK VALVE
AIR CHAMBER

NOTE: NOT ALL SYMBOL & ABBREVIATIONS ARE USED

A/C	AIR CONDITIONING	HS	HAND SINK
AD	AREA DRAIN	HOR	HORIZONTAL
AHU	AIR HANDLING	HP	HORSEPOWER
BLDG	BUILDING	HTG	HEATING
BS	BAR SINK	HW	HOT WATER
CB	CATCH BASIN	INV	INVERT
CD	A/C CONDENSATE DRAIN	KS	KITCHEN SINK
CF	CUBIC FEET	KW	KILOWATTS
CLG	CEILING	LAV	LAVATORY
CO	CLEANOUT	MH	MANHOLE
COMB	COMBINATION	NIC	NOT IN CONTRACT
CONN	CONNECTION	PSI	POUNDS PER SQ INCH
CW	COLD WATER	P&T	PRESSURE & TEMP
DF	DRINKING FOUNTAIN	RD	ROOF DRAIN
DW	DISHWASHER	RWL	RAIN WATER LEADER
DWG	DRAWING	SS	SERVICE SINK
ELEV	ELEVATION	ST	STORM WATER
EWC	ELECTRIC WATER COOLER	SW	SAFEWASTE
EWH	ELECTRIC WATER HEATER	SWR	SHOWER
FCO	FLUSH FLOOR CLEANOUT	TDH	TOTAL DYNAMIC HEAD
FCU	FAN COIL UNIT	TUB	TUB WITH SHOWER
FE	FIRE EXTINGUISHER	UR	URINAL
FD	FLOOR DRAIN	V	VENT
FT H	FEET OF WATER (PRESS)	VS	VENT STACK
FS	FLOOR SINK	VTR	VENT THRU ROOF
FU	FIXTURE UNITS	W/	WITH
G	GAS	WC	WATER CLOSET
GD	GARBAGE DISPOSAL	WM	WASHING MACHINE
GPM	GALLONS PER MINUTE	WS	WASTE STACK
GV	GATE VALVE	WVS	WASTE & VENT STACK
HB	HOSE BIBB	SF	SQUARE FEET



BURGER KING RESTAURANT	REVISIONS
6985 COLLINS AVE. ○ MIAMI BEACH, FL	PROJECT NO. 8216
	DRAWN BY
	DATE

ARCHITECT

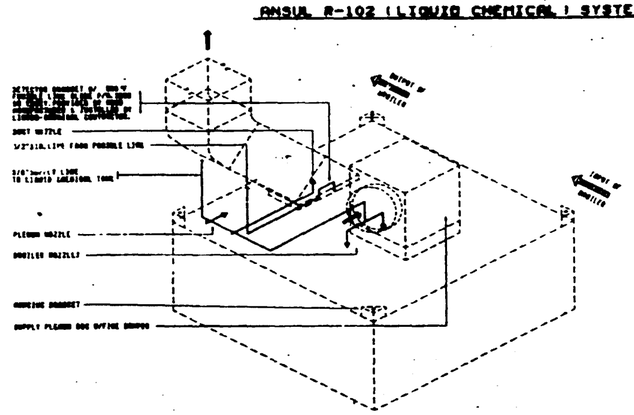
P-1

FIRE PROTECTION DETAILS FOR HOODS

ANSUL R-102 (LIQUID CHEMICAL) SYSTEM U.L. LISTED # EX 3470

NOTES:

1. ALL EXPOSED PIPE SHALL BE CHROME PLATED.
2. ALL [illegible] PIPE SHALL BE SCHEDULE 40.
3. [illegible]
4. FOR MANUAL OPERATION OF FIRE EXTINGUISHING SYSTEM SEE ANSUL-10-L.
5. THE INSTALLATION AND OPERATION OF THE EXTINGUISHING SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION.
6. ALL EQUIPMENT AND ITS INSTALLATION SHALL BE AS PER ANSUL-10-L.
7. [illegible]
8. [illegible] FOR MANUAL OPERATION.
9. [illegible] WITH 1" PIPE AND EXTENDING 6" ABOVE FLAT TOP SURFACE OF FIRE SUPPRESSION SYSTEM DISTRIBUTION.
10. [illegible] SHALL BE PERFORMED BY AN AUTHORIZED ANSUL DISTRIBUTOR.
11. FLEXIBLE CONDUCTOR TO CONTROL VERTICAL DAMPERS, GAS VALVES AND/OR RELAYS FOR FIRE PROTECTION SYSTEM SUPPLIED. SHALL BE INSTALLED BY THE FIRE PROTECTION SYSTEM INSTALLER.

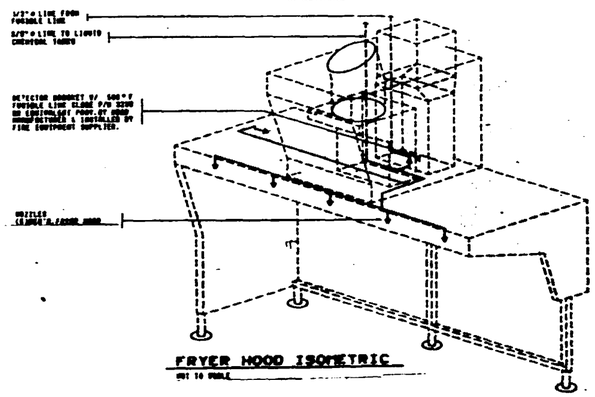


BROILER HOOD ISOMETRIC
NOT TO SCALE

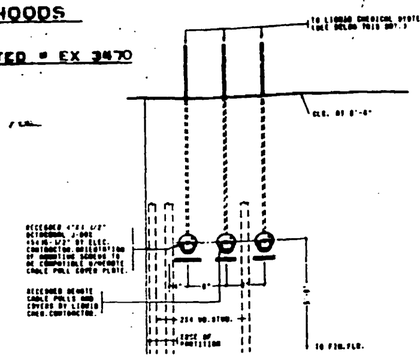
NOTE:

THESE HOODS CAME PRE-PIPED BY HOOD MANUFACTURER AS SHOWN

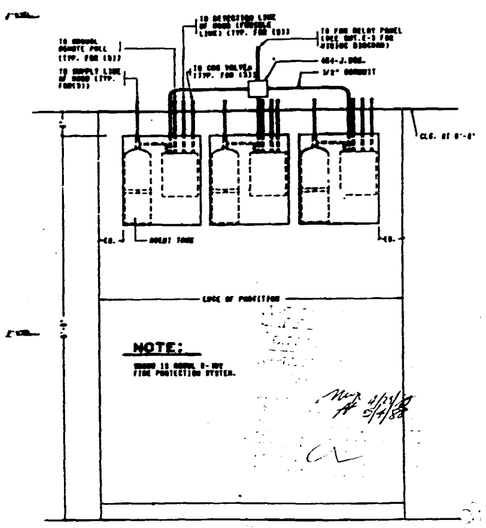
_____ BY HOOD MANUFACTURER
_____ BY CONTRACTOR



FRYER HOOD ISOMETRIC
NOT TO SCALE



LOCATION DETAIL FOR REMOTE PULLS
SCALE: 1" = 1'-0"



NOTE:

[illegible] FIRE PROTECTION SYSTEM.

TYPICAL LIQUID CHEMICAL SYSTEM

[illegible] RESTAURANT
[illegible] AVE. • MIAMI BEACH, FL

ARCHITECT

FP-1

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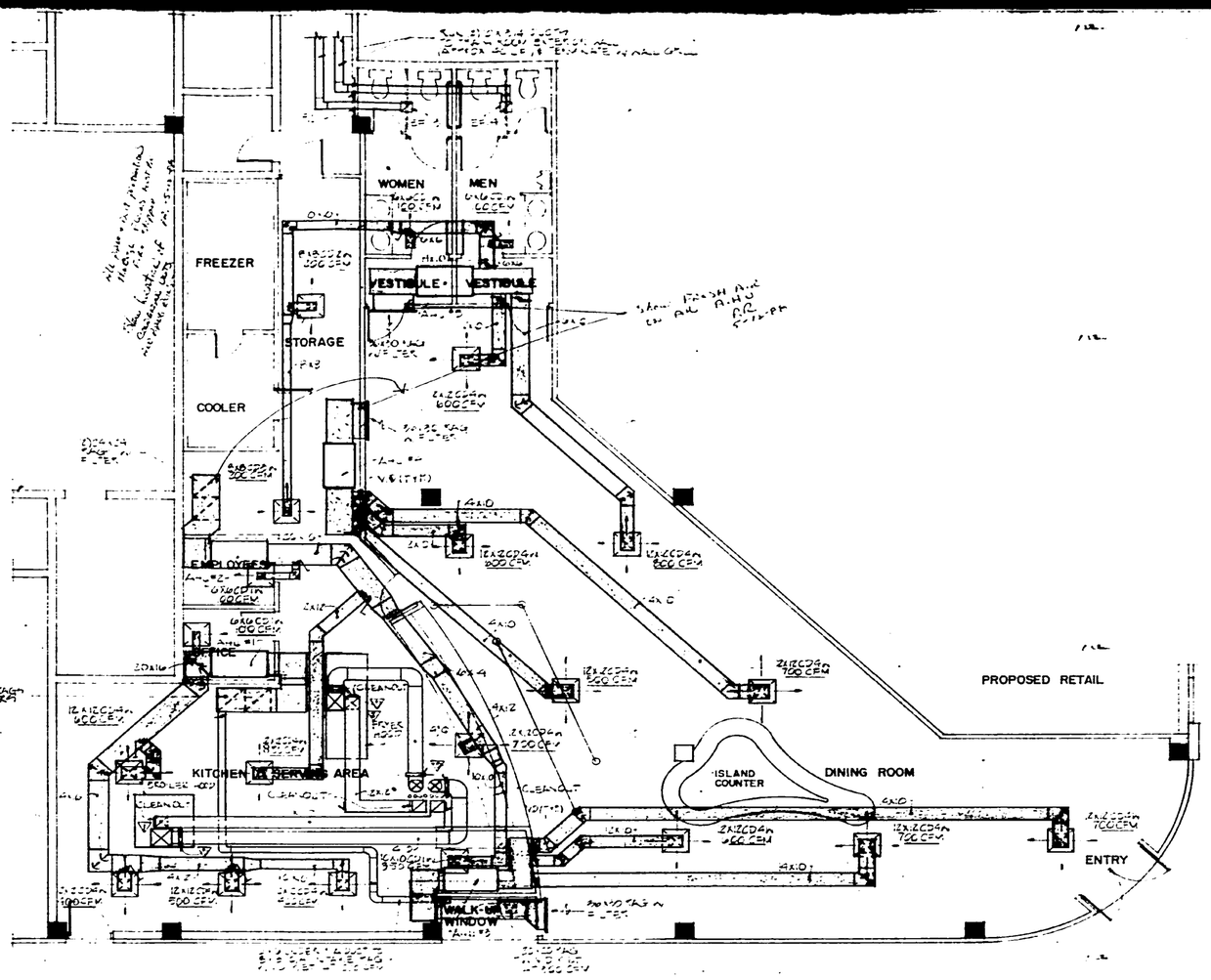


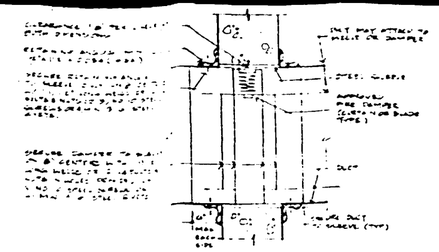
H.V.A.C. FLOOR PLAN

SCALE 1/4"=1'-0"

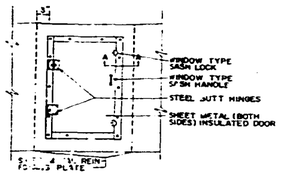
BURGER KING RESTAURANT 6985 COLLINS AVE. ○ MIAMI BEACH, FL	REVISIONS PROJECT NO. 8716 DRAWN BY DATE
1/4"=1'-0"	

XERXES D. PARKEY ARCHITECT

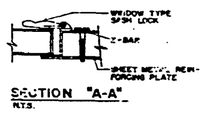
A/C-1



FIRE DAMPER DETAIL
NTS.



ACCESS DOOR DETAIL
NTS.



SECTION "A-A"
NTS.

HEATING & AIR CONDITIONING SCHEDULE

SYSTEM DESIGNATION		
AREA SERVED		
DESIGN MANUFACTURER		
FAN COIL UNIT	LOCATION	
	OPER WEIGHT LBS (DESIGN)	
	DESIGN MANUFACTURER MODEL	
	TOTAL AIR, CFM	
	OUTSIDE AIR, CFM	
	EXTERNAL S.P. (IN OF WATER)	.3
	FAN MOTOR HP (DESIGN)	3/4
	FILTER TYPE & THICKNESS	
	FILTER SIZE (DESIGN)	
	ENT AIR TEMP DB/WB (°F)	
ELECT RESISTANCE HEATER	HEATING LOAD BTU/HR	
	TOTAL KW (DESIGN)	
AIR COOLED CONDENSING UNIT	LOCATION	
	OPER WEIGHT LBS (DESIGN)	
	DESIGN MANUFACTURER MODEL	
	TEMP OF AIR ENTERING CONDENSER, °F	
	TYPE OF FAN	
	MAX CONDENSING TEMP, °F	
	MIN SAT SUCTION TEMP, °F	40
	COMPRESSOR KW INPUT (DESIGN)	
	CONDENSER FAN HP (DESIGN)	
EER		
NOMINAL TONS		
SYSTEM TOTAL COOLING CAPACITY (BTU/HR)		
SYSTEM SENSIBLE COOLING CAPACITY (BTU/HR)		

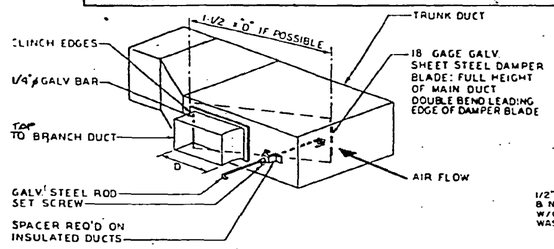
NOTES: 1 MANUFACTURER TO SIZE REFRIGERANT LINES & FURNISH COMPLETE PRECHARGED, PREINSULATED SET FOR EACH SYSTEM
2 SEE ELECTRICAL DRAWING FOR OPERATING POWER

VENTILATION FAN SCHEDULE

FAN Nº					
LOCATION					
TOTAL AIR, CFM					
TOTAL SP (IN OF WATER)					
DESIGN, RPM					
DESIGN, HP					
TYPE OF DRIVE					
DESIGN MANUFACTURER					
DESIGN MODEL Nº					

NOTES 1- ALL FANS PROVIDED WITH BACKDRAFT DAMPER, BIRDSCREEN, SAFETY DISCONNECT SWITCH AND FIRESTAT
2- ALL FANS TO BE NATURALLY ANODIZED ALUMINUM
3- ALL ROOF FANS PROVIDED WITH PRETABRICATED GALVANIZED STEEL CURB WITH 2" OF FIBERGLASS THERMAL AND ACOUSTICAL INSULATION, SUPPLIED BY FAN MANUFACTURER AND SIMILAR TO LOREN COOK COMPANY TYPE VCS OR EQUAL
4- SEE ELECTRICAL DWGS FOR OPERATING POWER OF EACH FAN
5- THE CONTRACTOR SHALL ADJUST THE FAN DRIVE AS REQUIRED TO DELIVER THE SPECIFIED CFM AGAINST THE STATIC PRESSURE OF SYSTEM AS ACTUALLY INSTALLED.

* FANS EF-1 AND EF-2 SHALL BE INTERLOCKED.
FANS EF-2 AND EF-3 SHALL BE INTERLOCKED WITH GAS SUPPLY TELEMETRY AND MOOD EXTINGUISHING PATTERN.



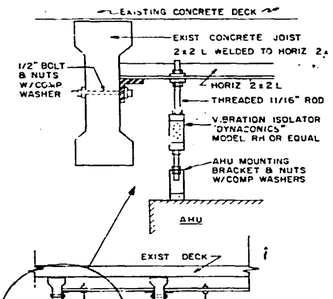
TYPICAL DETAIL OF A 90° DUCT TAP WITH DAMPER BLADE
NTS

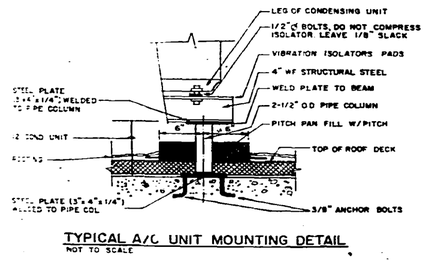
▽ 11" x 11" EXHAUST DUCT UP TO EF-3, 16 GAUGE CONTINUOUS WELD 1726 FPM

▽ 12" x 12" EXHAUST DUCT UP TO EF-2, 16 GAUGE CONTINUOUS WELD 1805 FPM

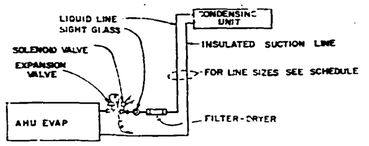
▽ INSTALL FIRE DAMPER AT FIRE RATED CHASE IF REQUIRED BY LOCAL CODE

▽ INSTALL SMOKE DAMPER AT RETURN AIR PLENUM (TYPICAL ALL A/C UNITS)

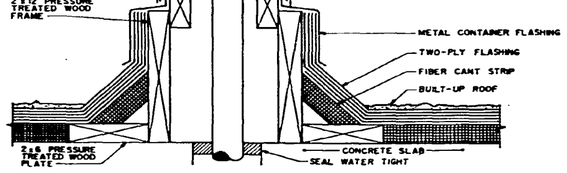




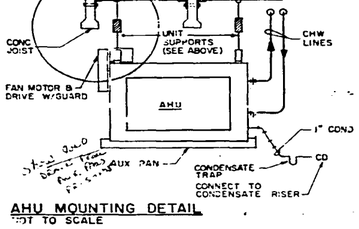
TYPICAL A/C UNIT MOUNTING DETAIL
NOT TO SCALE



TYPICAL EXTERNAL REFRIGERANT PIPING DIAGRAM



REFRIGERANT PIPING ROOF PENETRATION DETAIL
NTS.



AHU MOUNTING DETAIL
NOT TO SCALE

LEGEND, SYMBOLS & ABBREVIATIONS

A/C	AIR CONDITIONING
AFF	ABOVE FINISH UNIT
BTU/HR	BRITISH THERMAL UNIT PER HOUR
CFM	CUBIC FEET PER MINUTE
°F DB	DEGREE FAHRENHEIT DRY BULB
°F WB	DEGREE FAHRENHEIT WET BULB
DG	DOOR GRILLE
DIFF	DIFFUSER
DN	DOWN
ENT	ENTERING
EXH	EXHAUST
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FIN	FINISHED
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE
FL	FLOOR
FLD	FULL LOUVER DOOR
FPM	FEET PER MINUTE
GR	GRILLE
HOR	HORIZONTAL
HP	HORSEPOWER
ISOL	ISOLATOR
KW	KILOWATTS
LBS	POUNDS
LRA	LOCKED ROTOR AMPERES
OA	OUTSIDE AIR
RA	RETURN AIR
RG	RETURN AIR THRU LOUVERED DOOR
EF	
REG	REGISTER
REQ'D	REQUIRED
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SPD	SPLITTER DAMPER
SP	STATIC PRESSURE
TEMP	TEMPERATURE
T'STAT	THERMOSTAT
TYP	TYPICAL
UD	UNDERCUT DOOR
VD	VOLUME DAMPER
VERT	VERTICAL
W/	WITH
WP	WATER PROOF
1-W	ONE WAY
2-W	TWO WAY
3-W	THREE WAY
4-W	FOUR WAY
T	THERMOSTAT (5'-0" ABOVE FINISH FLOOR)
25x12	DUCT SIZE IN INCHES (FIRST FIGURE SHOWN)
C-1111	DUCT FLEXIBLE CONNECTION
	VIBRATION ISOLATORS
#5 OR #6 ETC	NUMBER & LETTER NEXT TO OF THE DIFF INDICATES TITUS PATTERN TYPE

NOTE
NOT ALL SYMBOLS & ABBREVIATIONS ARE USED.

GENERAL NOTES

1- SCOPE OF WORK:
WORK SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS AND PERFORMING ALL OPERATIONS IN CONNECTION WITH THE FURNISHING AND INSTALLATION OF ALL AIR CONDITIONING, HEATING AND VENTILATION WORK AS SHOWN ON DRAWINGS HEREIN SPECIFIED AND/OR REQUIRED BY S.T.E. CONDITION EQUIPMENT SHALL BE PROVIDED AS SCHEDULED ON DRAWINGS OR EQUAL EQUIPMENT SUBMITTED FOR APPROVAL.

2- AIR CONDITIONING SYSTEM OF SPLIT SYSTEM TYPE.
SHALL CONSIST OF MATCHING FAN COIL UNIT AND CONDENSING UNIT AS INDICATED ON DRAWINGS SYSTEM SHALL BE PROVIDED COMPLETE WITH FRAMES AND ENCLOSURES, INTER-CONNECTING PIPING AND WIRING, NECESSARY CONTROLS AND SAFETY DEVICES. REFRIGERANT CHARGE AND OIL CHARGE FAN COIL UNIT SHALL BE PROVIDED WITH ACCESSORY ELECTRIC STRIP HEATER AND FILTER BOX. REFRIGERANT LINES SHALL BE OF COPPER OF THE SIZE, CHARGE AND TYPE SUPPLIED AND SIZED BY SUPPLIER OF EQUIPMENT. PROVIDE SMOKE DETECTORS TO SHUT OFF UNIT

3- DUCTWORK:
a) DUCT MATERIALS SHALL BE GLASS FIBER BOARDS OR INSULATED METAL FOR INDOORS AIR CONDITIONED SUPPLY AND RETURN DUCTWORK AND METAL FOR EXHAUST, AND NON-CONDITIONED OUTSIDE AIR, EXTERIOR (EXPOSED TO WEATHER) AIR CONDITIONED SUPPLY & RETURN DUCTWORK SHALL BE INSULATED METAL MADE TOTALLY WATER PROOF
b) GLASS FIBER DUCTWORK SHALL BE OWENS-CORNING RECTANGULAR DUCT SYSTEM TYPE 407 FRK OR EQUAL CONFORMING TO APPLICATION MANUAL FOR Nº 3-81, 202-8 & DESIGN GUIDE, FB Nº 5-66-5817
c) METAL DUCTS SHALL BE IN ACCORDANCE WITH LATEST ISSUE OF THE LOW VELOCITY DUCT CONSTRUCTION STANDARDS PUBLISHED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. AND THE LATEST PUBLICATION OF GUIDE & DATA BOOK OF THE AMERICAN SOCIETY OF HEATING, REFRIGERATION & AIR CONDITIONING ENGINEERS.
d) EXTERIOR METAL DUCT INSULATION FOR INDOORS SHALL BE ONE (1) INCH THICK 1.5 LB PER CU FT FIBERGLASS FLEXIBLE BLANKET INSULATION WITH UL APPROVED FIRE RESISTING ALUMINUM FOIL VAPOR SEAL FACING AND A MINIMUM "K" OF 0.24 AT 75°F MEAN TEMPERATURE INSTALLATION AS PER MANUFACTURER PUBLISHED RECOMMENDATIONS
e) EXTERIOR METAL DUCT INSULATION FOR OUTDOOR DUCTWORK EXPOSED TO WEATHER SHALL BE TWO (2) INCHES THICK, 6 LBS. PER CU FT FIBERGLASS RIGID BOARD INSULATOR WITH DUPLEX VAPOR BARRIER AND A "K" OF 0.22 AT 75° F. INSTALLATION SHALL BE MADE 100% WATER PROOF AND IN ACCORDANCE WITH MANUFACTURER PUBLISHED RECOMMENDATIONS

4- AIR DISTRIBUTION
a) ALL AIR OUTLETS AND INLETS SHALL BE TITUS, OR EQUAL, AND OF ALL ALUMINUM CONSTRUCTION OF THE SIZE AND TYPES SHOWN ON DRAWINGS
b) FIRE DAMPERS AS APPROVED BY LOCAL GOVERNING AUTHORITIES SHALL BE INSTALLED IN ALL DUCTWORK PASSING THRU A FLOOR, ROOF, FIRE PARTITION OR FIRE WALL (PROVIDE ACCESS) AS SHOWN ON THE DRAWINGS
c) CONTRACTOR SHALL PROVIDE POSITIVE MEANS FOR BALANCING EACH INDIVIDUAL AIR CONDITIONING SUPPLY AIR OUTLET, AS PER SCHEDULES & DRAWINGS. SYSTEMS SHALL BE BALANCED AGAINST THE ACTUAL INSTALLED STATIC PRESSURE

5- VIBRATION ISOLATION
PROVIDE SUPPORTS OR MOUNTS FOR ALL EQUIPMENT LOCATED WITHIN THE BUILDING STRUCTURE POWERED BY ONE HORSEPOWER OR LARGER MOTOR. FLEXIBLE PIPING CONNECTIONS SHALL BE PROVIDED FOR ALL PIPING CONNECTED TO EQUIPMENT MOUNTED OR SUPPORTED BY VIBRATION ISOLATORS.

6- TESTS
ALL TESTS SHALL BE PERFORMED AS REQUIRED DURING THE DIFFERENT STAGES OF WORK AND A FINAL 24 HOUR SEASONAL RUNNING TEST SHALL BE DONE AFTER ALL OTHER TESTS AND BALANCING OPERATIONS HAVE BEEN DONE

7- GUARANTEE
CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE COVERING ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE.

BURGER KING RESTAURANT
6985 COLLINS AVE. ○ MIAMI BEACH, FL

REVISIONS
PROJECT NO 8716
DRAWN BY
DATE

ARCHITECT

A-2

GENERAL NOTES:

A. [illegible] PROVIDED ON 3 PANEL DESIRED BY LOCAL CODE PROVIDE SPACES FOR 2 FUTURE BREAKERS.

B. ALL PANEL BONDED AND CONNECTIONS TO BE COPPER.

C. ALL CIRCUIT BREAKERS IN PANELS A, B, C & D TO HAVE UL RATING FOR 22000 A.I.C. (MIN.) - SEE NOTE E

D. ELECTRICAL CONTRACTOR SHALL INSTALL AND CONNECT BONDING TO ALL BOOMS.

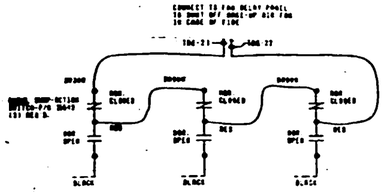
E. IT IS ELECT. CONTRACTORS RESPONSIBILITY TO CONTACT THE ELECTRICAL UTILITY TO HAVE UTILITY PERFORM CALCULATIONS OF THE AVAILABLE FAULT CURRENT @ THE SITE. CURRENT INTERRUPTING D.I.C. RATING SHALL BE INCREASED OR LIMITED FROM THE STOCK U.L. BOARD ON THE TOTAL FAULT CURRENT OF THE LINE SIDE OF THE MAIN CIRCUIT BREAKER. PRIMARY INFORMATION TO BE SUBMITTED FOR APPROVAL OF METERING EQUIPMENT AND SWITCHGEAR SHALL BE AS-BUILT DRAWINGS. ALL CIRCUIT BREAKERS MUST BE RATED AT OR ABOVE RATED FAULT CURRENT.

F. THE LARGEST MOTOR LOAD OF ALL PANELS TO THE A/C COMPRESSORS AT 208VP3 (NOT DISAPPROVED AT 208V PANEL LOADING.)

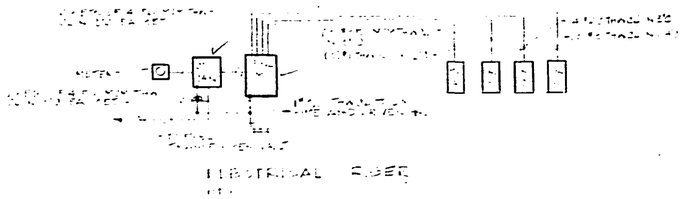
G. ALL CONDUCTORS TO BE COPPER. (#12 MIN.)

H. THIS PLAN COMPLIES THE ELECTRICAL REQUIREMENTS FOR THE 8-500 KITCHEN.

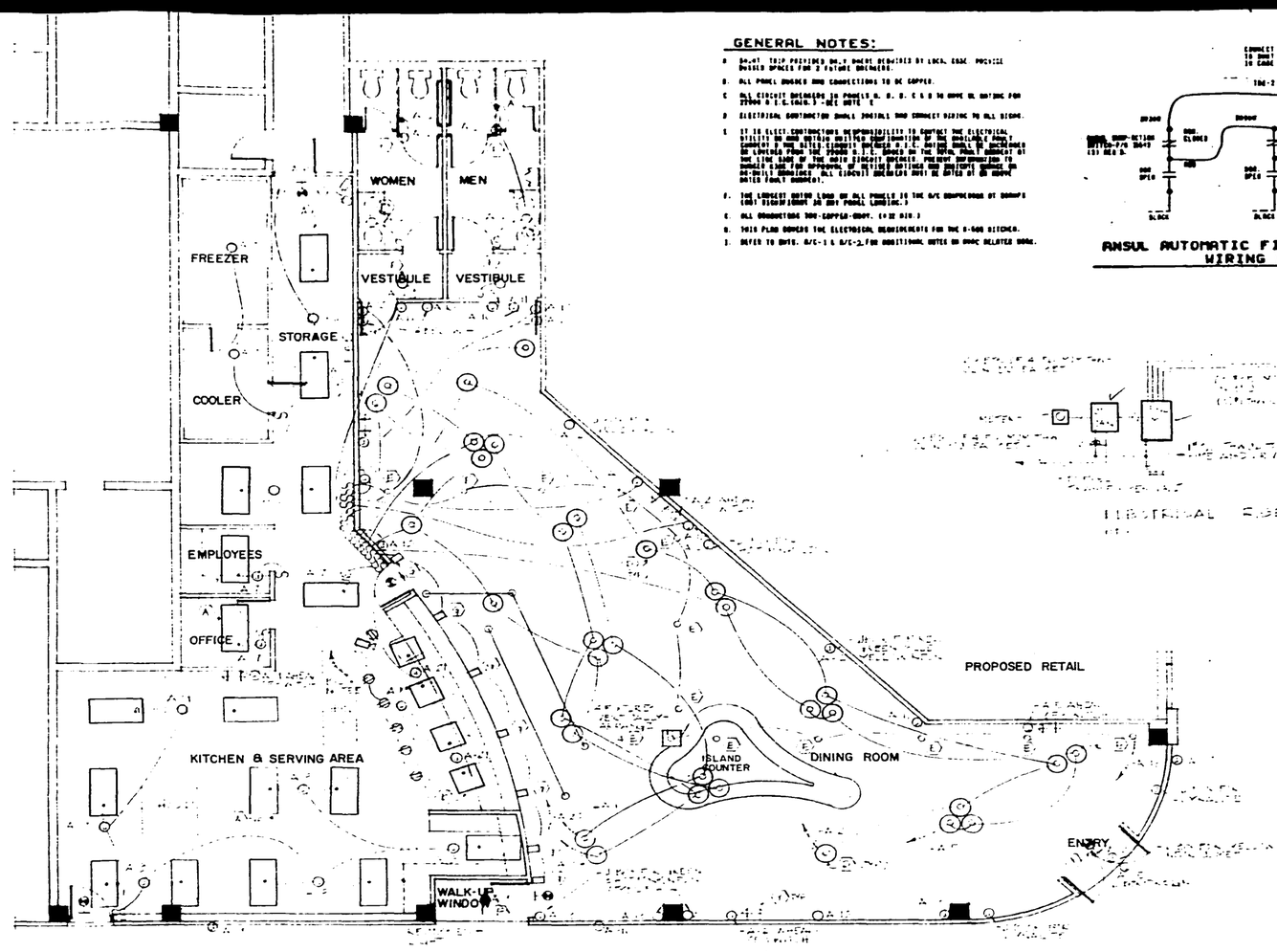
I. REFER TO DWGS. A/C-1 & A/C-2 FOR ADDITIONAL NOTES ON HVAC RELATED WORK.



ANSUL AUTOMATIC FIRE CONTROL SYSTEM
WIRING DIAGRAM



ELECTRICAL RISER

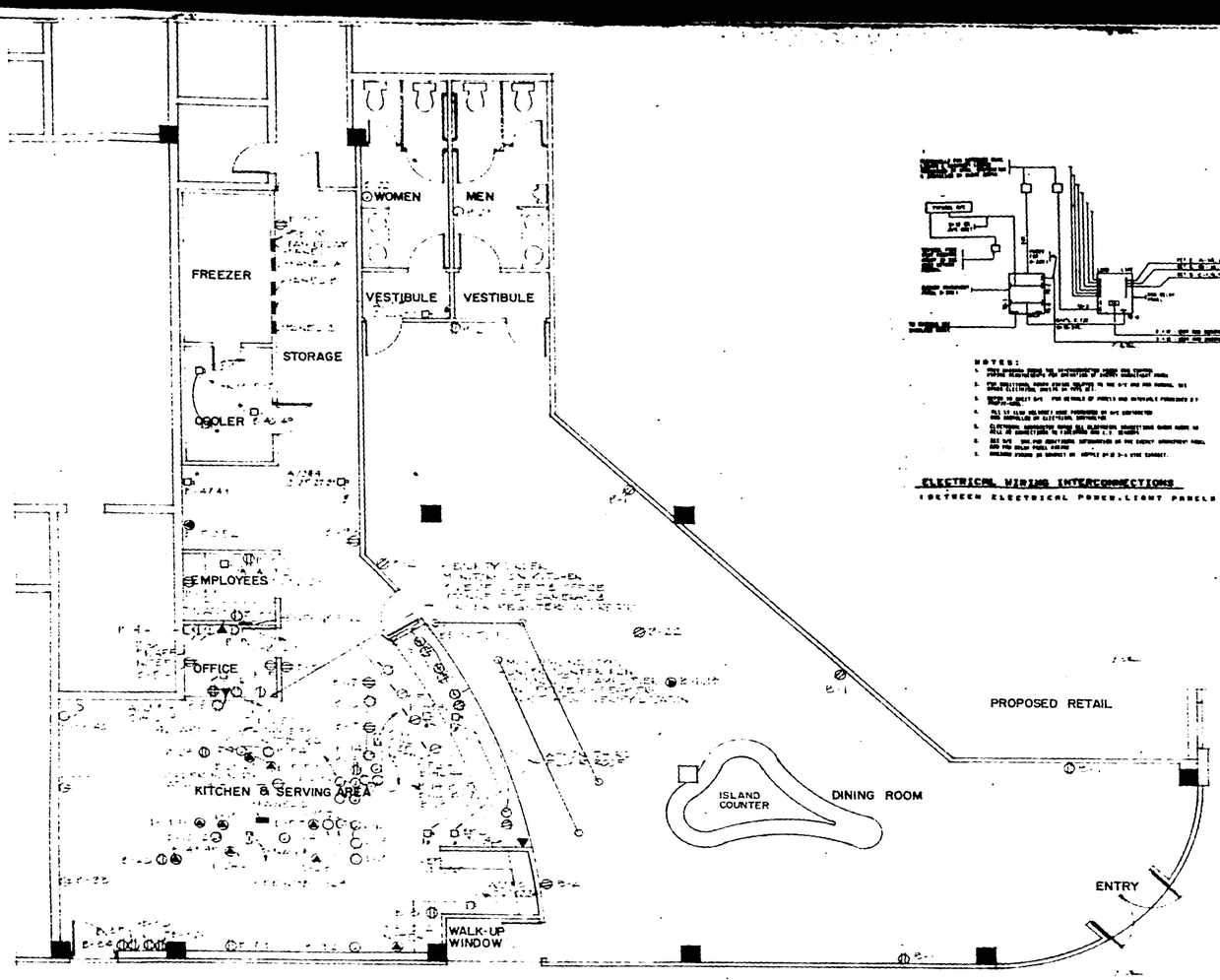


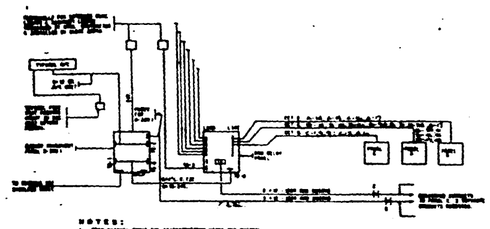
BURGER KING RESTAURANT 6985 COLLINS AVE. ○ MIAMI BEACH, FL	REVISIONS PROJECT NO: 8718 DRAWN BY DATE
1/4"= 1'-0"	

KERVIN ROBINEY ARCHITECT

E-1

8





NOTES:

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]

ELECTRICAL WIRING INTERCONNECTIONS

(BETWEEN ELECTRICAL POWER-LIGHT PANELS & R/E ENERGY MANAGEMENT PANEL)

BURGER KING RESTAURANT 6985 COLLINS AVE. ○ MIAMI BEACH, FL	REVISIONS
1/4" = 1'-0"	PROJECT NO 8715 DRAWN BY DATE

KERVIK ROBBEY ARCHITECT

E-2

8

TYPE SQUARE D "NQOD" VOLTS 120/240V 1Ø 3W
MT'G FLUSH BUS 125A
MAIN M.L.O. LOAD 91A

PANEL "D"

CKT	DESCRIPTION	POLES	TRIP	VOLTS	WIRE	COND	LOAD	REMARKS
1,3	MICROWAVE OVEN	2	25	240	#12	3/4"	3KW	
2,4	↓	↓	↓	↓	↓	↓	3KW	
5,7	↓	↓	↓	↓	↓	↓	3KW	
6,8	↓	↓	↓	↓	↓	↓	3KW	
9,11	TOASTER	↓	↓	↓	↓	↓	2KW	
10,12	STEAMER	↓	30	↓	#10	↓	4KW	
13	HEAT BLANKET	1	20	120	#12	3/4"	180W	
14	HOT CUPBOARD	↓	↓	↓	↓	↓	480W	
15	HEAT LAMP	↓	↓	↓	↓	↓	250W	
16	↓	↓	↓	↓	↓	↓	250W	
17	MOBILE FREEZER	↓	↓	↓	↓	↓	650W	
	SUBTOTAL						2619VA	
	DEMAND REDUCTION (SEE REMARKS) REDUCES IN LOADS)						-439VA	
	TOTAL						2180VA	
*	EQUIPMENT OUTLETS & CONNECTIONS INDICATED FOR PANEL "D" ARE INSTALLED & WIRED IN MAIN PREP BOARD BY EQUIPMENT MANUFACTURER. ELECTRICAL CONTRACTOR SHALL PROVIDE & CONNECT FEEDER WIRE & CONDUIT FROM "D" PANEL FOR BRANCH CIRCUITRY THRU EQUIPMENT SERVICE CASE							

OFFICE COPY
CITY OF MIAMI BEACH
FOR PERMIT
APPROVED
FOLLOWING
MAR 21 1988
BUILDING

TYPE SQUARE D "NQOD" VOLTS 120/240, 1Ø-3W
MT'G FLUSH BUS 225A
MAIN M.L.O. LOAD 181A

PANEL "C"

CKT	DESCRIPTION	POLES	TRIP	VOLTS	WIRE	COND	LOAD	REMARKS
1,3,5	EF-1	3	25	240	#12	1"	13.0	** 1 HP
2,4,6	EF-2	↓	↓	↓	↓	↓	13.0	** 1 HP
7,9,11	SPACES	—	—	—	—	—	—	
8,10,12	SHAKE MACHINE	3	40	240	#8	3/4"	7KW	
13,14,15	WALK-IN		30		#10	1"	4.7KW	
16,17,18	A/C 1		40		#8	3/4"	8.0	
19,20,21	A/C 2						8.0	
22,23,24	A/C 3						8.0	
25,26,27	A/C 4	↓	↓	↓	↓	↓	8.0	
	TOTAL						57KVA	
**	ELECTRICAL CONTRACTOR TO WIRE THESE CKTS. THRU FAN RELAY PANEL							

TYPE SQUARE D "NQOD" VOLTS 120/240 1Ø-3W
MT'G FLUSH BUS 350A
MAIN M.L.O. (3) 3Ø 4W PANELS WITH FEED- LOAD 247A

PANEL "B"

CKT	DESCRIPTION	POLES	TRIP	VOLTS	WIRE	COND	LOAD	REMARKS
1	ENT. AIR RECEPT.	1	20	120	#12	3/4"	720	
2	EXH. HOOD LIGHTS & RECEPTACLES	↓	↓	↓	↓	↓	1KW	GREASE HOOD
3	POS RECEPT.						360	
4	IN STORE PHONE						360	
5	CASH REGISTERS						720	
6	EMERGENCY LIGHT	↓	↓	↓	↓	↓	180	
7,8	EXHAUST FAN	1	20	120	#10	1"	1670	
9	SIGN & SIGN LIGHTING	1	20	120	#12	3/4"	720	
10	HEAT LAMP	↓	↓	↓	↓	↓	1KW	
11,12	GREASE PUMP MOTOR	2	30	240	#10	1"	2KW	
13	HEAT BLANKET & ELEC. VALVE	1	20	120	#12	3/4"	1560	
14	FRYER CONTROL	↓	↓	↓	↓	↓	180	**
15							180	**
16							180	**
17	↓	↓	↓	↓	↓	↓	180	**
18	FRYER CONTROL	1	20	120	#12	3/4"	720	
19,21	EF-3A MOTOR						1KW	
22	EE DRIVE FIRE						1KW	
23	HAND DRYER						1250	
24	↓	↓	↓	↓	↓	↓	1250	
25,27	MICROWAVE OVEN	2	20	240	#12	3/4"	2800	
26	MEAT REEL	1	20	120	#12	3/4"	720	
28	HOLDING CABINET & FREEZER						1440	
29	FRYER #1 PANEL						720	
30	FAN RELAY PANEL						1440	**
31	FRYER #2 PANEL						720	** VERIFY LOCATION
32	↓	↓	↓	↓	↓	↓	720	** ↓
33	RECEPTACLES	1	20	120	#12	3/4"	1KW	
34	AIR COMPRESSOR		30		#10		920	
35	SODA FACTORY		30		#10		3120	
36			20		#12		1900	
37	↓	↓	↓	↓	↓	↓	1900	
38,40	GARB. DISPOSAL	2	30	240	#10	1"	4.3KW	
39,41	EF-1		20		#12		1650	** 3/4 HP
42,44	EF-2		20		#12		1650	** 3/4 HP
43,45	BROILER	↓	30	↓	#10	↓	25.0	**
46,48	POWER VENTILATOR UNIT	2	20	120	#12	3/4"	2.1KW	
47,49	FAN	2	40	240	#8	3/4"	6.6KW	
50,52	HOOD LIGHTING & RECEPTACLE	2	20	240	#12	3/4"	1.5KW	
51,53	TOASTER	2	20	240	#12	3/4"	2KW	
54	RUN LIGHTS AND TABLE OUTLETS	1	20	120	#12	3/4"	1.5KW	
55-60	SPACES	—	—	—	—	—	—	
	SUBTOTAL						71556	
	DEMAND REDUCTION (SEE DEMAND MED. COOKING LOADS)						-7551	
	TOTAL						64005	
**	ELECTRICAL CONTRACTOR TO WIRE THESE CKTS. THRU FAN RELAY PANEL							

TYPE [illegible] (SEE SPECIAL NOTE "E") VOLTS [illegible] 4W
MT'G [illegible] BUS [illegible] A
MAIN [illegible] LOAD SEE BELOW

PANEL "M"

CKT	DESCRIPTION	POLES	TRIP	VOLTS	WIRE	COND	LOAD	REMARKS
1,3,5	PANEL "A"	3	200	240	#3/0	2½"	57KVA	
2,4	PANEL "A"	2	125	↓	#1	1½"	44KVA	
8,10	PANEL "B"	2	350	↓	#350 MCM	3"	98.3	REMARKS REQ. APPLIES
7,9	PANEL "D"	2	100	↓	#3	1½"	44.8	↓
6,11,12	SPACES	—	—	—	—	—	—	
	TOTAL "B"						179KVA	
	TOTAL "A"						179.2KVA	
	TOTAL PHASES A & B: 693A							
	TOTAL PHASE C: 161A							

DEMAND REDUCTION COOKING LOADS

PANEL "B"		PANEL "C"	
DISHWASHER	4440	WORKAWAVE #1	3200
COFFEE	3840	WORKAWAVE #2	3200
FRIERS	5440	WORKAWAVE #3	3200
MICROWAVE	2800	WORKAWAVE #4	3200
BROILER	2440	TOASTER	2500
		STEAMER	4000
TOTAL	21420	TOTAL	19400
X .35 DEMAND REDUCTION	7497	X .35 DEMAND REDUCTION	6790
	31.3A		28.3A

TOTAL DEMAND REDUCTION 13.9KVA

LEGEND

- SINGLE POLE SWITCH
- THREE WAY SWITCH
- DUPLEX OUTLET (GROUNDING)
- SINGLE OUTLET (GROUNDING)
- SPECIAL PURPOSE
- FLUORESCENT STRIP
- INCANDESCENT LT'G WALL BRACKET TYPE INDICATED ON PLANS.
- EXIT LIGHT
- FLUORESCENT WRAP AROUND, UNLESS OTHERWISE NOTED
- INCANDESCENT LT'G. CEILING MT'D. TYPE INDICATED ON PLANS
- POLE LIGHT
- LIGHTING PANEL
- POWER PANEL
- CONDUIT CONCEALED IN WALL OR OVERHEAD
- CONDUIT IN OR UNDER THE SLAB
- FLEXIBLE CONDUIT
- CONDUIT RUN EXPOSED
- F FIRE ALARM STATION
- DISCONNECT SWITCH - WP INDICATES WEATHERPROOF (TYP)
- TV TV OUTLET
- TELEPHONE OUTLET
- MOTOR
- JUNCTION BOX
- HEAT & SMOKE SENSOR (ELEVATOR CONTROL)
- FLOOR OUTLET

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	LAMP	MANUFACTURER	CATALOG NO.	REMARKS
A	2 X 4 LAY-IN	RECESSED	(4) F40 CW	LITHONIA	2GT4AA12-120V	
B	2 X 2 LAY-IN	RECESSED	(2) U40 CW	↓	2GS2U40A12-120V	TO BE ALL FR
C	FLUOR. WALL BRKT	SURFACE	(2) F40 CW	↓	WB240A12-120V	
D	MISC. DECOR	PENDANT	(1) 175 MVH	MEGRAW-EDISON	SFA 1401	RECESSED BALLAST
E	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
F	MR-16	RECESSED	(1) 75CRR-40	HALO	H-7 HOUSING 401 TRIM	LAMP LOCATION
G	VAPORTITE	SURFACE	(1) 8A11	STI-LO	VGSLII 8FTC W/ 8 BASIC BARE LAMPS	TYPE G TO VERIFY W/ LCD
H						
J						
K						
L						
M						
N						
P	EXIT LIGHT	SURFACE	INCLUDED	DEVINE	DVGS80	
Q	EMERGENCY LIGHT	↓	INCLUDED	LITHONIA	ELA-MC	

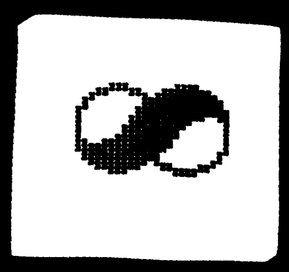
BURGER KING RESTAURANT
6985 COLLINS AVE. ○ MIAMI BEACH, FL

REVISIONS
PROJECT NO. 871A
DRAWN BY
DATE

ARCHITECT

E-3

152



25

PERMIT #

B19- 00231

ADDRESS :

365

25

FROM: PLANNING DEPARTMENT

SUBJECT: PLANNING DEPARTMENT PLAN REVIEW FORM

As per your request of , the following is our review of the attached Plan:

1. Plan Identification:
   Project Name: Coastal Bank Club
   Address: 1445 Collins Avenue

2. This plan required Planning Department review and approval pursuant to action taken by: ( ) Zoning Board of Adjustment ( ) Planning Board ( ) City Commission ( ) Design Review B ( ) Sign in Special Cases (Sec. 11-1,D)

3. File No: 1213
   Process No: 12409231
   NATURE OF THE WORK: Planning violations
   Also site will

4. Applicant/Contact Person
   Name: Bilbao Bradshaw Rose Phone: 672-2000
   Address:

5. Date plan received by Planning Department:
   Date plan returned to Development Services Department: 4/27/15 Initials: AE
   Date comments given to contact person:

OFFICIAL ACTION

6. APPROVED: ✓ DATE: 4/27/15

7. DISAPPROVED: DATE:

Plan disapproved for the following reasons:

A. Landscaping ( )

B. Site Plan ( )

C. Did not meet below specified conditions as required by: ( ) Zoning Board of Adjustment ( ) Planning Board ( ) City Commission ( ) Design Review Board ( ) Other

1.
2.
3.
4.
5.

8. Prepared by: Name Title Date

Approved by: [signature] Name Assistant Planner Title 4/27/15 Date

cc: Plan Review File
Kiemlhun
7/16/86
PD Forms

26

CONSTRUCTION SERVICES DEPARTMENT

E-99-31

ENGINEERING PLANS REVIEW

LEGAL DESCRIPTION: Lots 1 & 2, Block 10, Normandy Beach South

LEGAL ADDRESS: 8355 Collins Avenue

PLAN DESCRIPTION: Glass Enclosures

THE ABOVE PLAN SUBMITTED TO THIS DEPARTMENT NEEDS THE FOLLOWING CORRECTIONS:

GARBAGE FACILITIES: Stipulated in previous plans.

SANITARY SEWER: To use existing facilities.

WATER: To use existing facilities.

DRAINAGE: FWL to be rerouted and splash blocks supplied.
A/C condensate to be piped to dry well/soakaway pit as shown.

GRADES: Berm variance granted.

ENCROACHMENTS/EASEMENTS: None.

PUBLIC SERVICES DEPARTMENT PERMITS REQUIRED FOR WORK DONE ON CITY PROPERTY.

COMMENTS: Complete sections of sidewalk/curb and gutter to be removed and replaced where necessary.
Certificate of Occupancy required.

SIGNATURE: _____ COMPANY: _____ PHONE NO.: _____

APPROVED FOR PERMIT SUBJECT TO THE ABOVE CONDITIONS

PAUL UTOFA, DIRECTOR
CONSTRUCTION SERVICES DEPARTMENT

Original/Plan Review yellow/Job Copy pink/Office Copy Goldenrod/File

26

CRYSTAL BEACH CLUB

MIAMI BEACH DADE, CO. FLORIDA

FIRST LEISURE CORP. — GENERAL CONTRACTOR

MORRIS ROSS — ARCHITECT

ALUMINUM FRAMES

1¾" x 4½" CENTER FLUSH GLAZED STOREFRONT SYSTEM
ALL FRAMES TO BE ALUMINUM ALLOY 6063-T5
FINISH TO BE BLUE E.S.P.

DOOR SCHEDULE

DOOR Nº	SIZE	REMARKS
1	72"x84"	PAIR OF NARROW STILE STOREFRONT DOORS
2	72"x84"	PAIR OF ALL-GLASS DOORS
3	36"x84"	SINGLE NARROW STILE STOREFRONT DOOR
4	72"x84"	PAIR OF ALL-GLASS DOORS
5	72"x84"	PAIR OF ALL-GLASS DOORS
7	72"x84"	PAIR OF NARROW STILE STOREFRONT DOORS

GLASS SCHEDULE

TYPE	DESCRIPTION
A	¼" CLEAR FULLY TEMPERED GLASS
B	½" CLEAR FULLY TEMPERED GLASS
⚠	
V	¼" VISION GLASS — BLUE REFLECTIVE

INDEX TO DRAWINGS

SHEET Nº	TITLE
G-1	COVER SHEET
G-2	FIRST FLOOR PLAN
G-3	ELEVATIONS (A) (B) (C) (D) (E) (F) (J)
G-4	ELEVATIONS (G) (H) (K) (L) (N)
G-5	DETAILS (1) (2) (3) (4) (10) (11) (12) (14) (15) (17)
G-6	DETAILS (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32)
G-7	OPERABLE WINDOW
G-8	ELEVATION (P)
G-9	SECTION (X)
G-10	DETAILS (40) (42) (43) (44) (45)
G-11	DETAILS (47) (47) (48)
G-12	DETAIL (49)
G-13	ELEVATIONS (R)1 (R)2 (R)3 (R)4 (S)1 (S)2
G-14	DETAILS (51) (52) (53) (54) (55)
G-15	DETAILS (57) (57) (58)
G-16	DETAILS (63) (65)
G-17	PLAN, VIEW AND ELEVATION (T)
G-18	DETAILS (6) (62) (63) (64)
G-19	DETAILS (67) (68) (69) (70)
G-20	ELEVATIONS (AA) (BB) (CC) (DD) (EE) DETAIL (18)

KEY TO DETAILS

ITEM	DESCRIPTION
(G)	GLAZING CONTACT F.C.D.M.
(H)	GLAZING TAPE TEXTAPE 440 1/8" - 3/8"
(J)	SCREENS TYPE VERTICAL VENUS 14" x 14"
(K)	NEOPRENE SETTING BLOCKS @ QUARTER POINTS
(L)	STRUCTURAL SILICONE LOW FOAMING TYP.
(M)	SEALANT SPECIFIC CHEMICAL
(N)	BACKER ROD EXPANDED FOAM
(P)	NON-METALLIC SHIM
(Q)	WEATHERSTRIPPING
(S)	HP 10 SMS @ 12" O.C.
(T)	HP 15 SMS @ 12" O.C.
(V)	¼" KYNAR-COAT SCREWS @ 12" O.C. MULTI
(W)	1" x 1" WOOD SPLIT-JOINING SCREWS @ 12" O.C.
(X)	ISOLATION MATERIAL

DESIGN REVIEW BOARD
BOARD APPROVAL: ____
DIRECTOR APPROVAL: ____
APPROVED WITH CONDITIONS: ____
NOT APPROVED: ____
DATE: ____
BY: ____

MAR 28 1989
BUILDING DEPARTMENT
BY ____

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING:	3/29, 3/31/89
ZONING:	3-27-89
PLUMBING:	N/A
ELECTRICAL:	N/A 4/25/89
MECHANICAL:	N/A 4-13-89
FIRE PREVENTION:	3/29/89
ENGINEERING:	

APPROVED - SUBJECT TO ENGINEERING CRITIQUE

3/10/89 Appropriate Board

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RANDY LUCAS INC.
6001 N.W. 29 AVE.
FT. LAUDERDALE, FL. 33309
(305) 977 - 5095
GLAZING CONTRACTOR

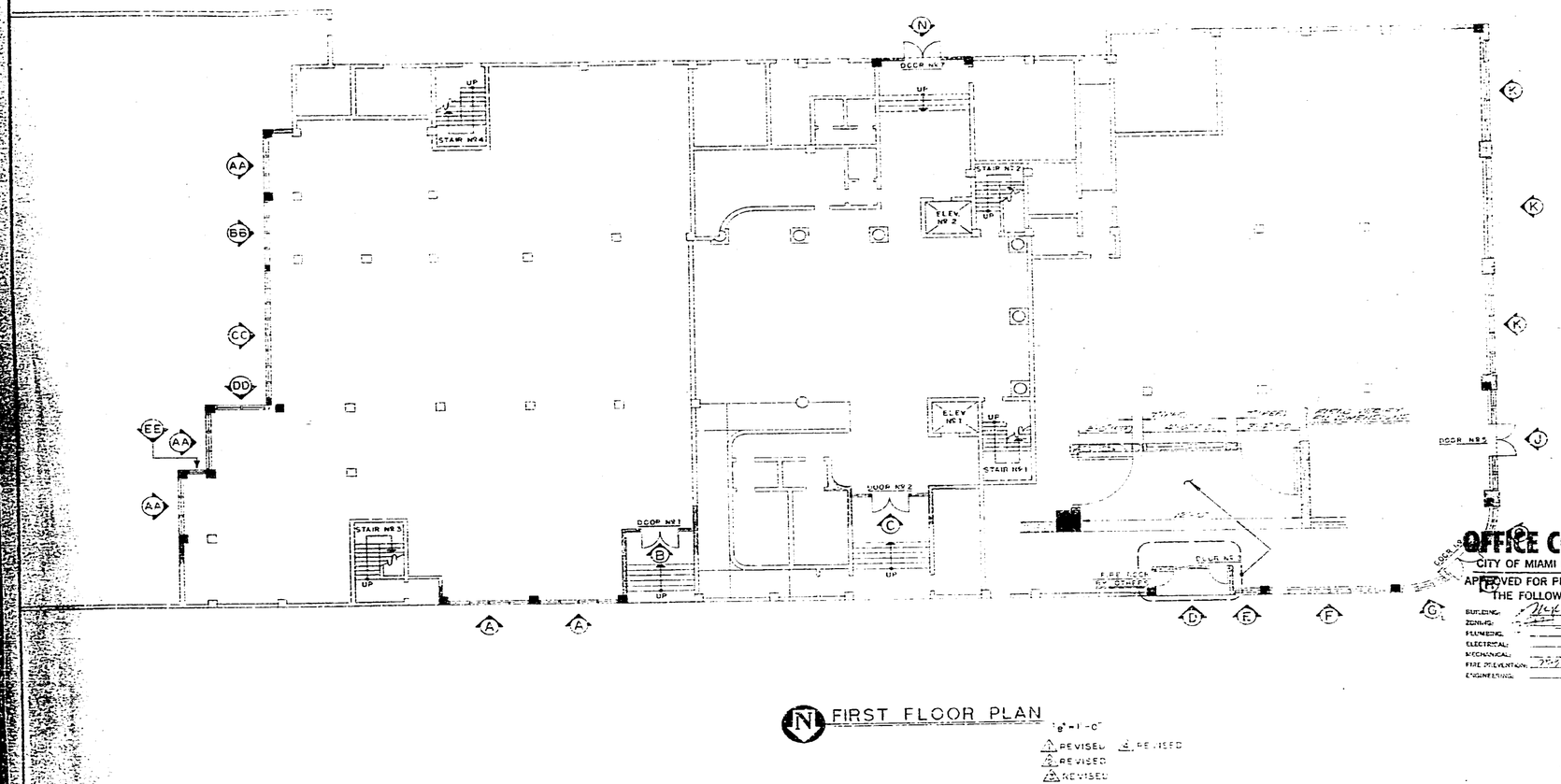
SEAL

PROJECT: CRYSTAL BEACH CLUB MIAMI BEACH FLORIDA
SHEET TITLE: SHEET
PROJECT Nº:

REVISIONS:
1. 12-2-88
2. 12-16-88
3. 1-9-89
4. 2-10-89

DRAWN BY:
CHECKED BY:
DATE:
SCALE:
DRAWING Nº 68
SHEET G
OF 20

25



N FIRST FLOOR PLAN

1/8"=1'-0"

1 REVISED 4 REVISED
2 REVISED
3 REVISED

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

RANDY LUCAS INC.
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FT. LAUDERDALE, FL. 33309
(305) 977-5055
GLAZING CONTRACTOR

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SEAL

PROJECT: CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA

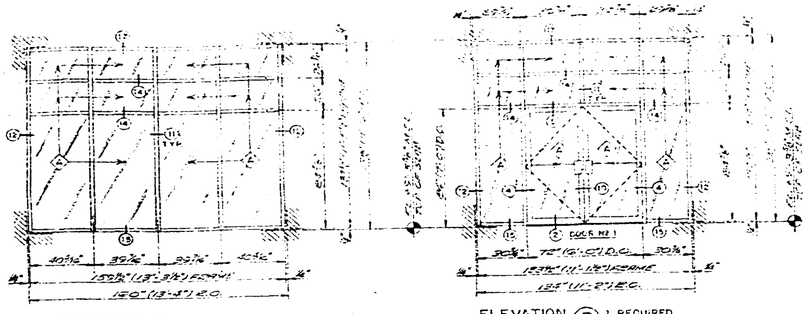
SHEET TITLE: FIRST FLOOR PLAN

PROJECT NO:

REVISIONS:
1 12-19-88
2 1-3-89
3 1-9-89
4 2-9-89
5

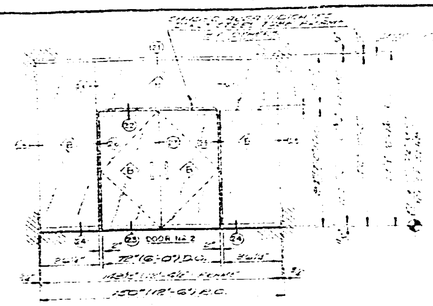
DRAWN BY:
CHECKED BY:
DATE:
SCALE: AS NOTED
DRAWING NO: 88132
SHEET: G-2
OF 20

25

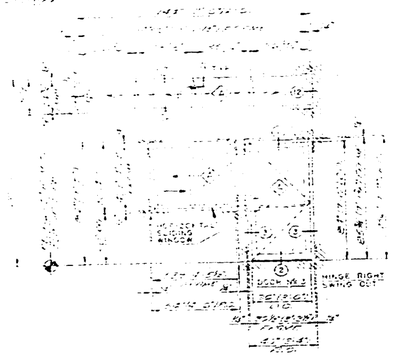


ELEVATION (A) 2 REQUIRED
1 REVISED

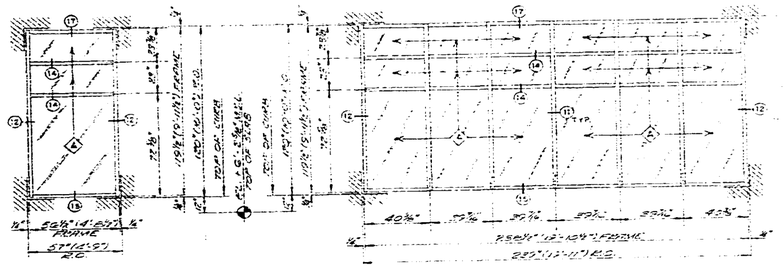
ELEVATION (B) 1 REQUIRED
1 REVISED



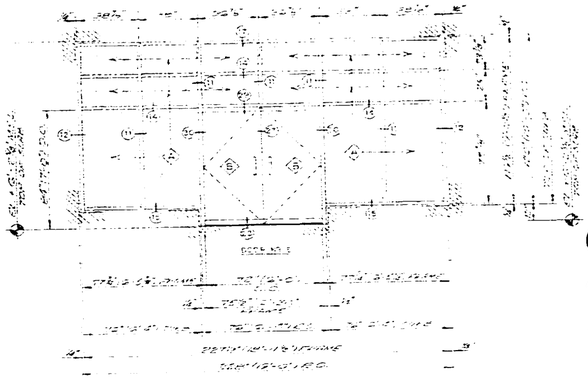
ELEVATION (C) 1 REQUIRED
1 REVISED
2 REVISED



ELEVATION (D) 1 REQUIRED
1 REVISED
2 REVISED
3 REVISED
4 REVISED



ELEVATION (E) 1 REQUIRED
1 REVISED



ELEVATION (F) 1 REQUIRED

ELEVATION (J) 1 REQUIRED
1 REVISED

ELEVATIONS 3/8"=1'-0"

NOTE
ALL DIMENSIONS ARE SUBJECT TO FIELD VERIFICATION.

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CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

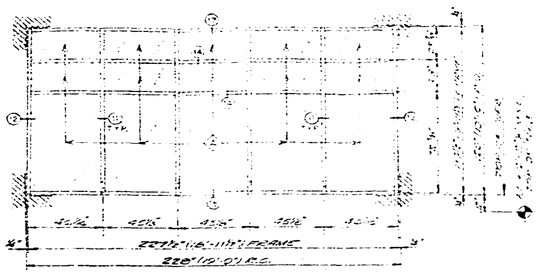
RANDY LUCAS INC.
6001 N.W. 29 AVE
FT. LAUDERDALE, FL. 33309
(305) 977-5055
GLAZING CONSULTANTS

PROJECT: CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA
SHEET TITLE: ELEVATIONS (A) (B) (C) (D) (E) (F) (J)
PROJECT NO:

REVISIONS:
1 12-19-88
2 1-3-89
3 1-9-89
4 2-6-89
5

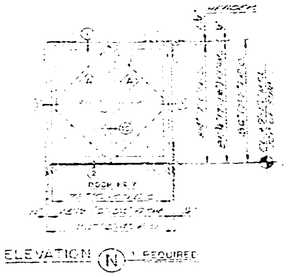
DRAWN BY: GMET
CHECKED BY:
DATE: 11-18-88
SCALE: AS NOTED
DRAWING NO: 88132
SHEET G - 3
OF 20

26

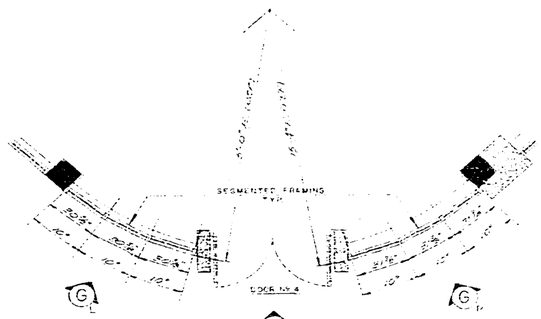


ELEVATION (K) 3 REQUIRED
2 QTY REVISED
1 REVISED

(L) ELEVATIONS L AND M DELETED



ELEVATION (N) 1 REQUIRED



PLAN VIEW
3/16" = 1'-0"

ELEVATIONS
3/16" = 1'-0"

NOTE
ALL DIMENSIONS ARE SUBJECT TO FIELD VERIFICATION

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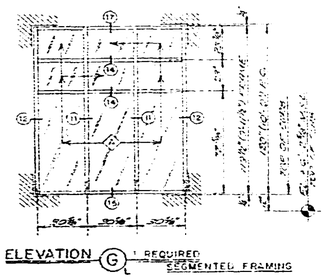
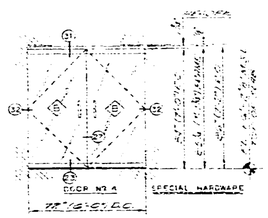
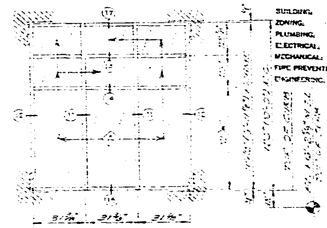
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING: 12/4/88
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION: 12/7/88
ENGINEERING:



ELEVATION (G)L 1 REQUIRED
SEGMENTED FRAMING



ELEVATION (H) 1 REQUIRED
1 REVISED



ELEVATION (G)R 1 REQUIRED
SEGMENTED FRAMING

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6901 N.W. 29 AVE.
FT. LAUDERDALE, FL. 33309
(305) 377 - 5055
GLAZING CONTRACTOR

SEAL:

PROJECT: CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA

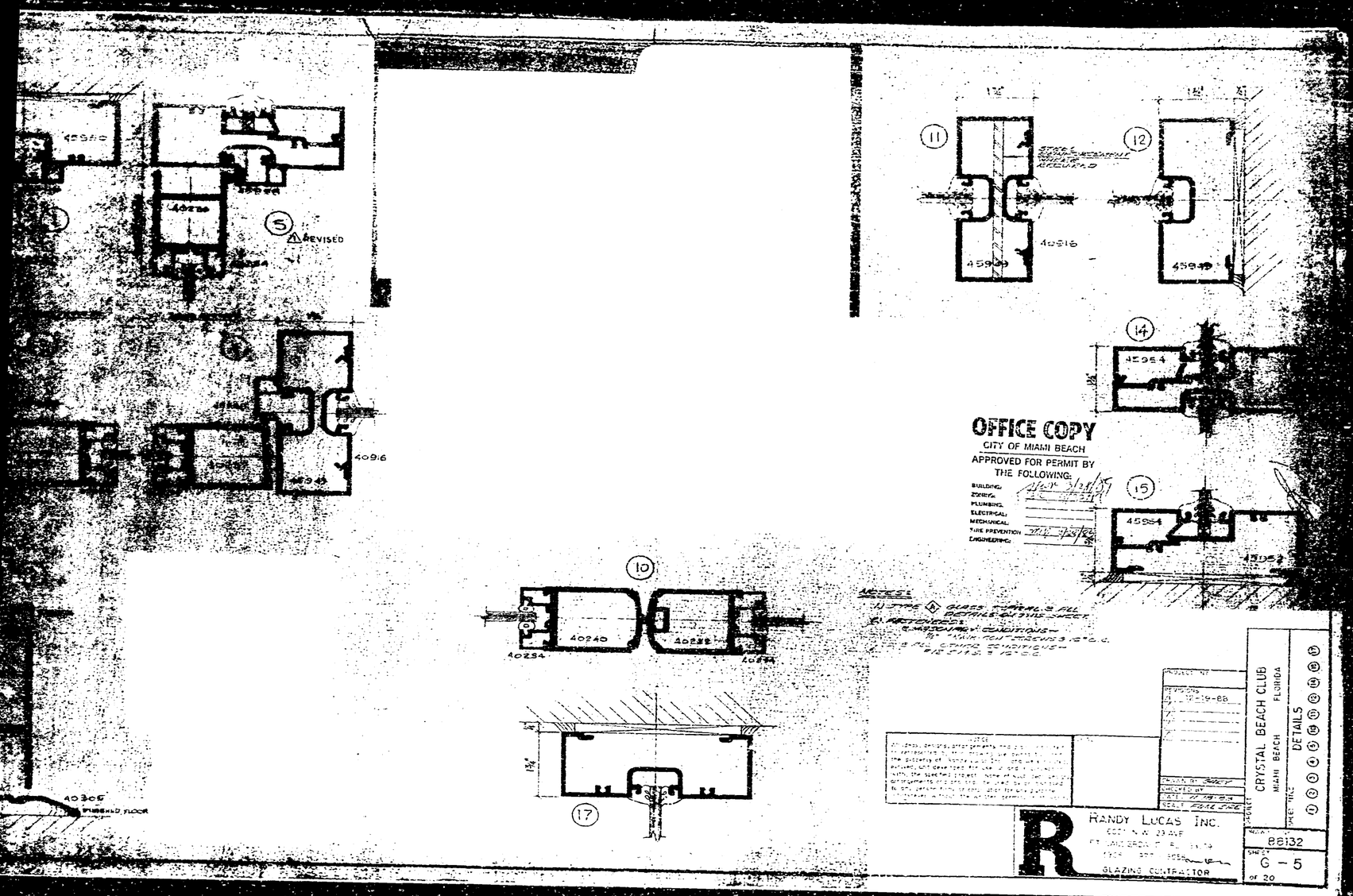
SHEET TITLE: ELEVATIONS (H) (G)R (K) (N)

PROJECT NO:

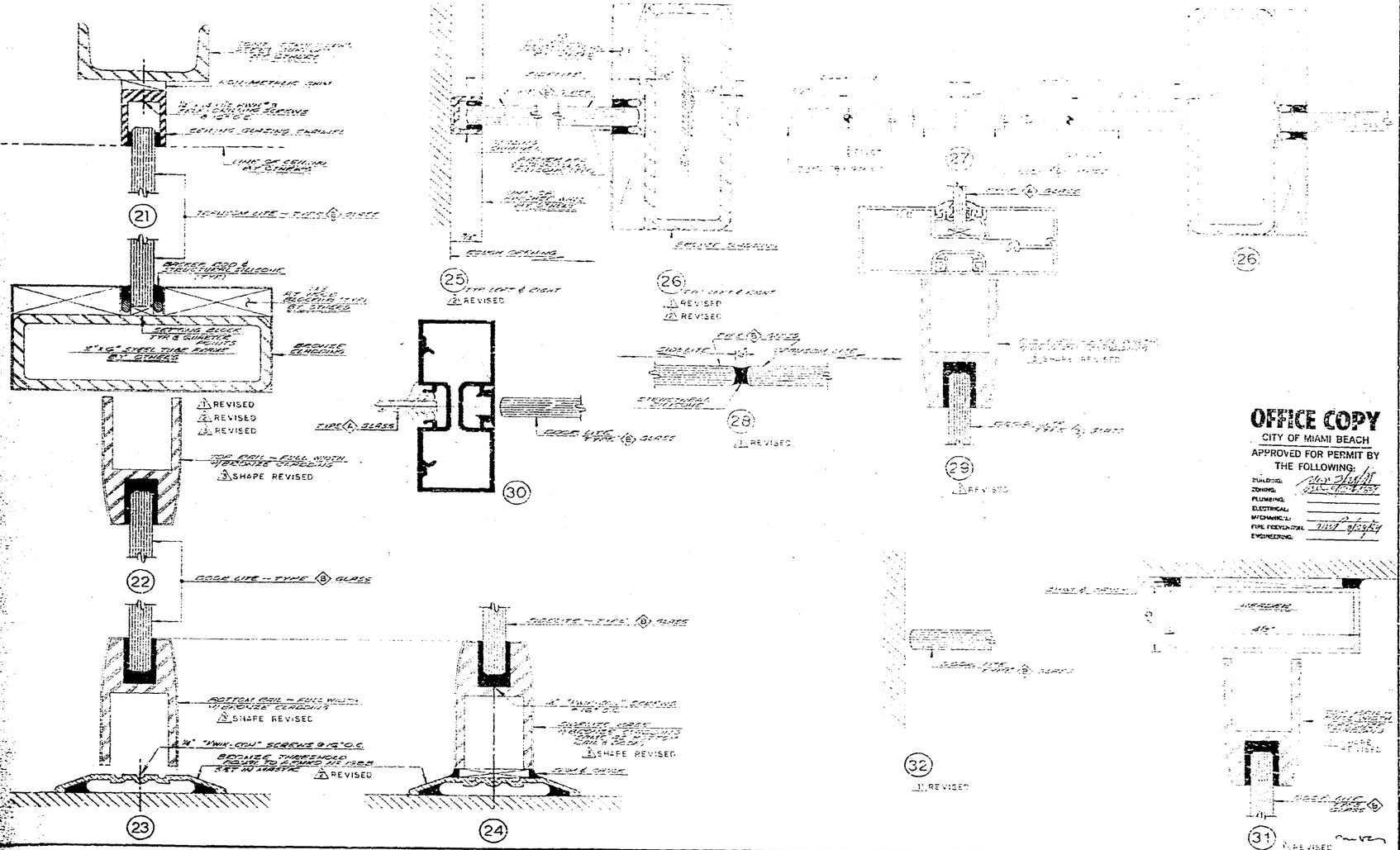
REVISIONS:
1 12-2-88
2 1-9-89
3 2-9-89
4
5

DRAWN BY: CHRIS
CHECKED BY:
DATE: 11-28-88
SCALE: AS NOTED
DRAWING NO: 88132
SHEET G - 4
OF 20

26


5
REVISED
40916
10
40240
40238
40234
17
11
12
40916
14
45954
OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING
ZONING
PLUMBING
ELECTRICAL
MECHANICAL
FIRE PREVENTION
ENGINEERING
15
45954
45952
RANDY LUCAS INC.
GLAZING CONTRACTOR
CRYSTAL BEACH CLUB
MIAMI BEACH
FLORIDA
DETAILS
88132
G - 5
OF 20

26



OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

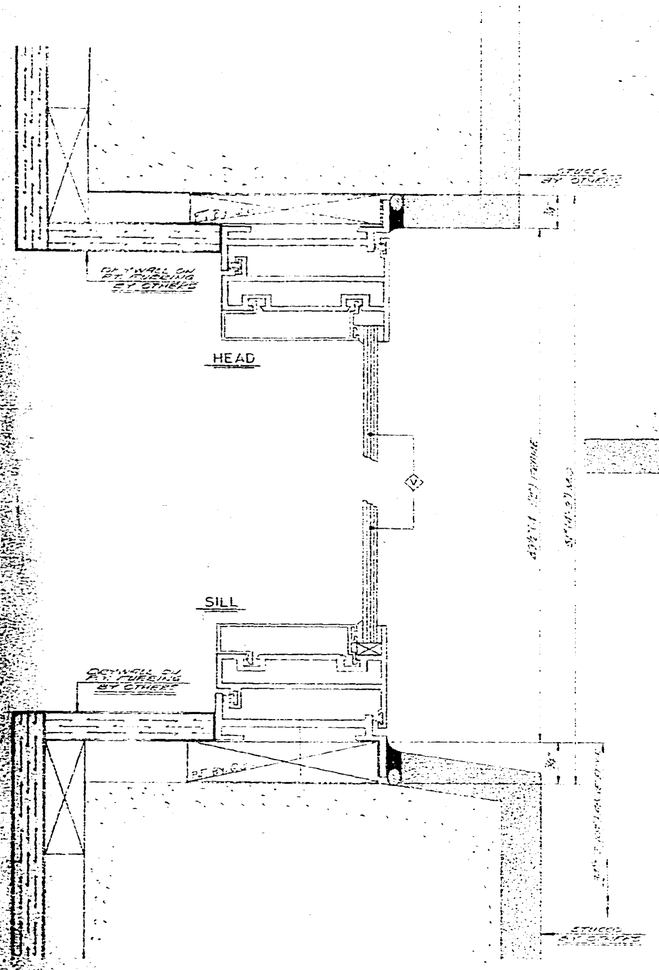
RANDY LUCAS INC.
6001 N.W. 29 AVE.
FT. LAUDERDALE, FL. 33319
(305) 977 - 5055
GLAZING CONTRACTOR

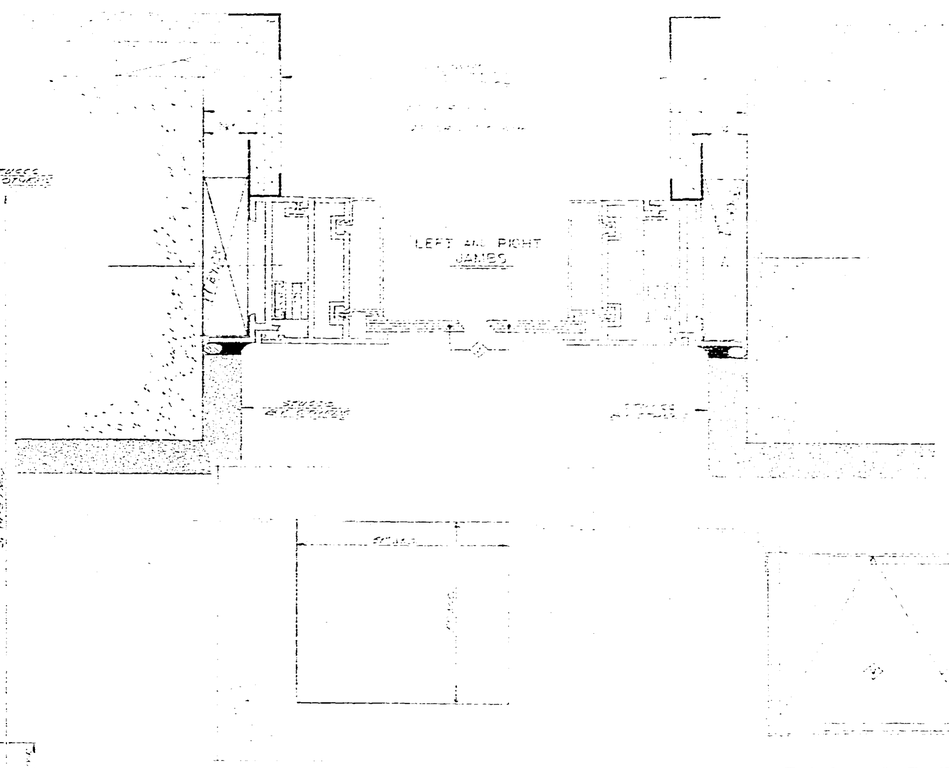
CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA
SHEET TITLE: DETAILS
PROJECT NO:

REVISIONS
1 12-19-88
2 1-4-89
3 1-10-89

DRAWN BY: GMT
CHECKED BY:
DATE: 11-18-88
SCALE: FULL SIZE
DRAWING NO. 88132
SHEET G - 6 OF 20

26





TYPICAL ELEVATION

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:
BUILDING: 3/1/01
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

RANDY LUCAS INC.
6001 N.W. 29 AVE.
FT. LAUDERDALE, FL. 33309
(305) 977 - 5955
GLAZING CONTRACTOR

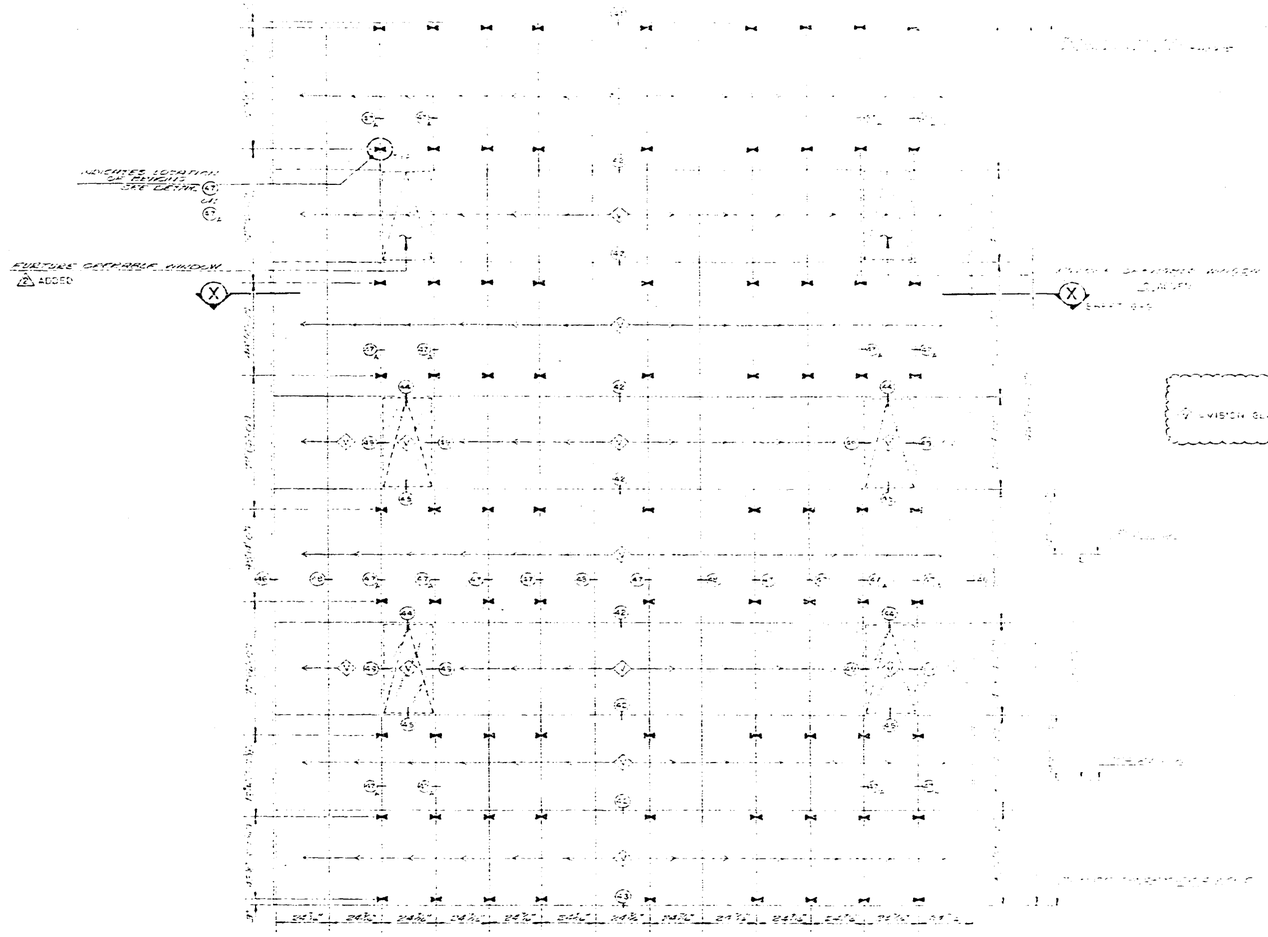
SEAL

PROJECT: CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA
SHEET TITLE: OPERABLE WINDOW
PROJECT NO:

REVISIONS
1 12-2-88
2 12-20-88
3 1-9-89
4 2-7-89
5

DRAWN BY: R.L.
CHECKED BY:
DATE: 11-18-88
SCALE:
DRAWING NO: 88132
SHEET G - 7 OF 20

26



OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING: [signature] 3/1/89
ZONING: [signature]
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION: [signature]
ENGINEERING:

DESIGN REVIEW BD.:
BOARD APPROVAL:
DIRECTOR APPROVAL:
APPROVED WITH CONDITIONS
NOT APPROVED

ELEVATION (P) 1 REQUIRED
EXPANDED VIEW SEGMENTED FRAMING

1 REVISED
2 REVISED
3 REVISED

1/2" = 1'-0"

NOTE
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FT. LAUDERDALE, FL. 33309
(305) 977 - 4055
GLAZING CONTRACTOR

SEAL

PROJECT: CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA

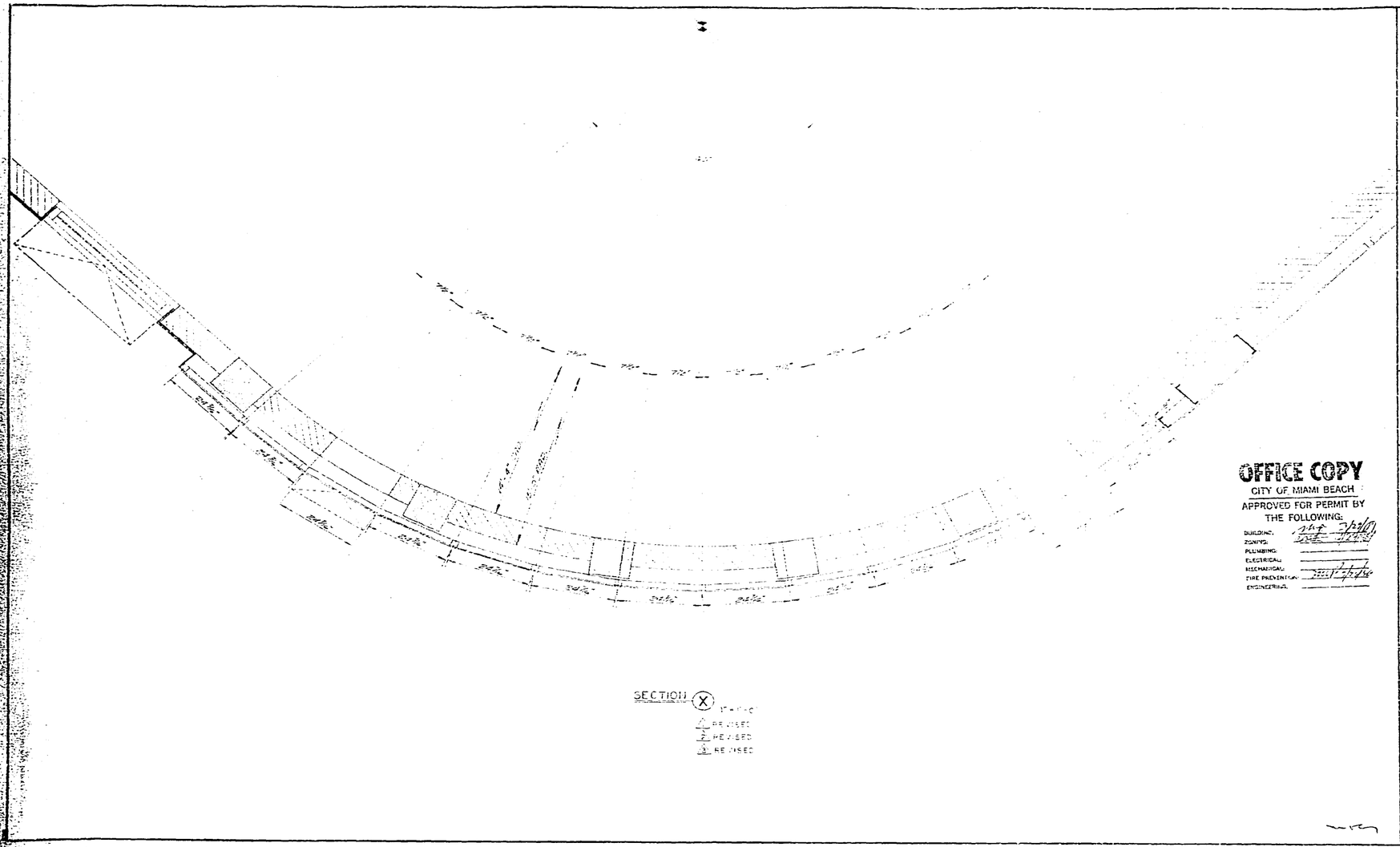
SHEET TITLE: ELEVATION (P)

PROJECT NO:

REVISIONS:
1 12-20-88
2 1-9-89
3 2-7-89
4
5

DRAWN BY: JAEY
CHECKED BY:
DATE: 12-7-88
SCALE: AS NOTED
DRAWING NO: 88132
SHEET G - 8
OF 20

26



SECTION (X) 1/4"=1'-0"

1 REVISED
2 REVISED
3 REVISED

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

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6001 N.W. 29 AVE.
FT. LAUDERDALE, FL. 33309
(305) 977 - 0955
GLAZING CONTRACTOR

SEAL

PROJECT: CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA

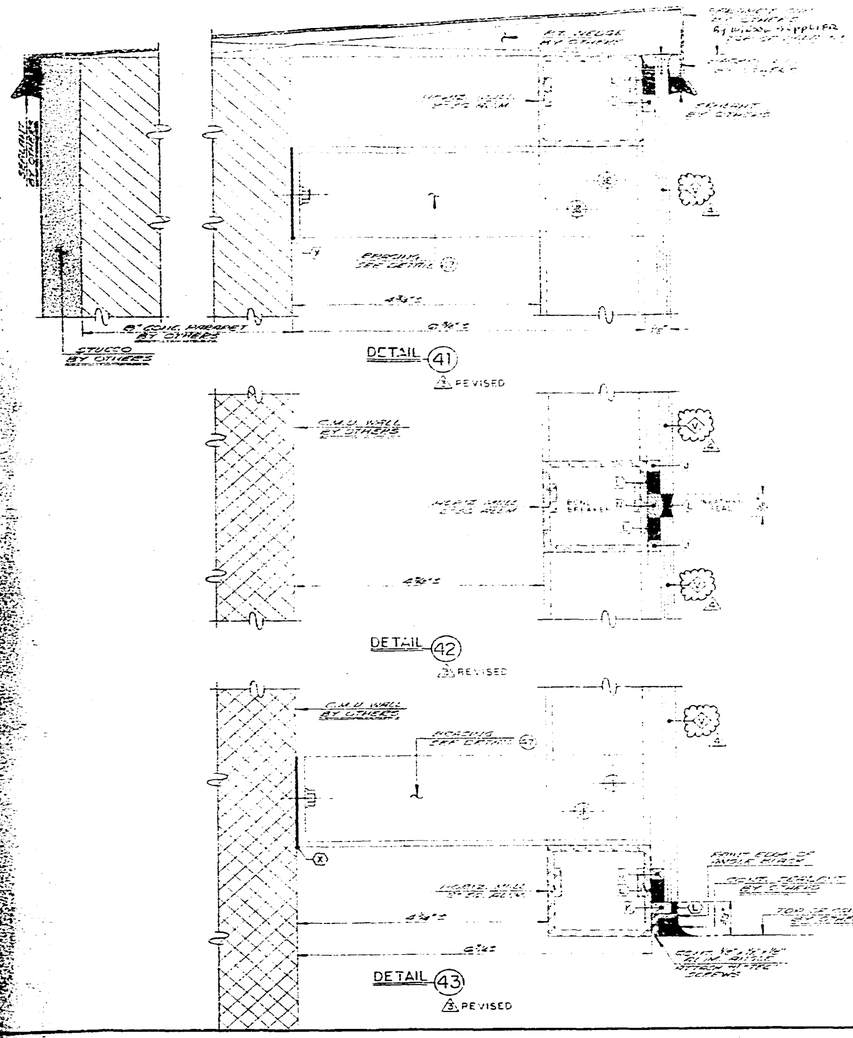
SHEET TITLE: SECTION (X)

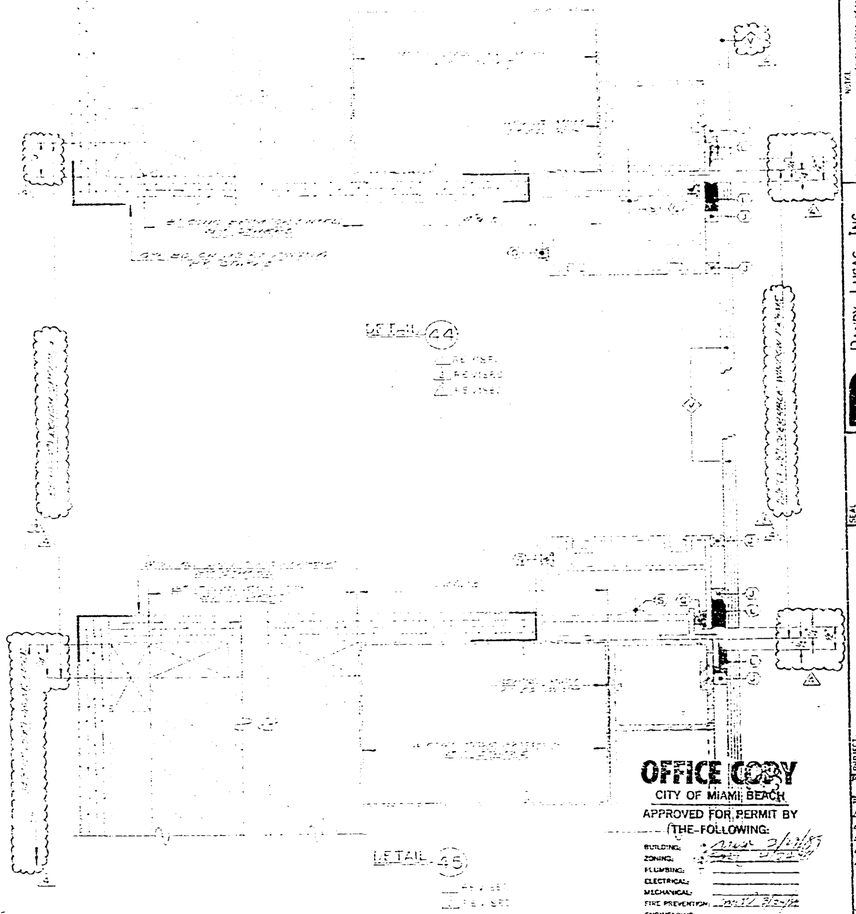
PROJECT NO:

REVISIONS:
1 12-20-88
2 1-5-89
3 1-12-89

DRAWN BY: CASEY
CHECKED BY:
DATE: 12-20-88
SCALE: AS NOTED
DRAWING NO: 8813.2
SHEET G - 9 OF 20

26





OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

NOTICE

RANDY LUCAS INC.
6001 N.W. 29 AVE.
FT. LAUDERDALE, FL 33309
(305) 977 - 5095
GLAZING CONTRACTOR

SEAL

PROJECT: CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA

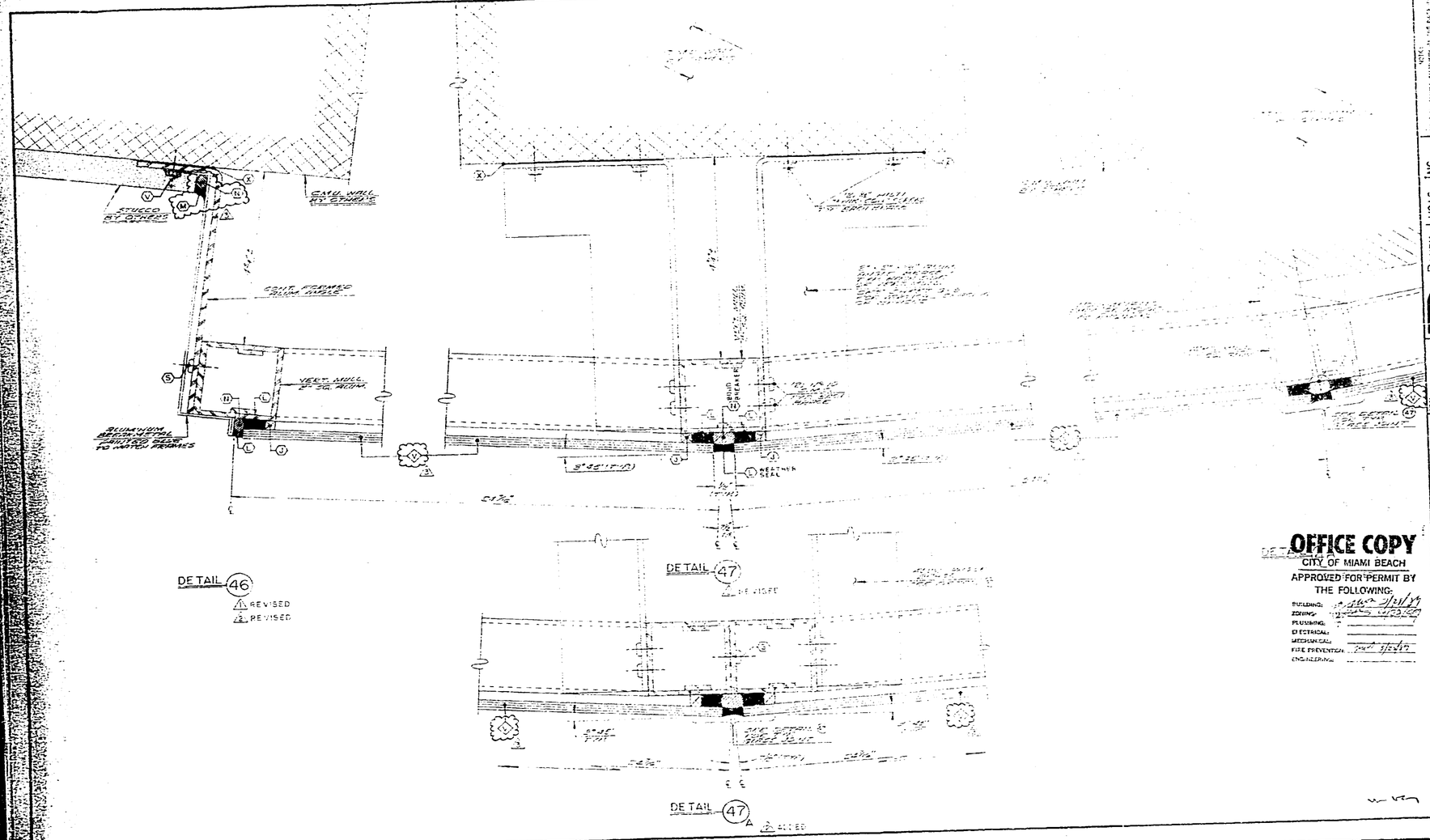
SHEET TITLE: DETAILS (41) (42) (43) (44) (45)

PROJECT NO

REVISIONS:
1 12-19-88
2 1-3-89
3 1-12-89
4 2-7-89
5

DRAWN BY: GARY
CHECKED BY:
DATE: 12-5-88
SCALE: AS NOTED
DRAWING NO. 88132
SHEET G - 10 OF 20

26



RANDY LUCAS INC.
6001 N.W. 29 AVE.
FT LAUDERDALE, FL. 33309
(305) 977 - 5555
GLAZING CONTRACTOR

SEAL

PROJECT: CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA

SHEET TITLE: DETAILS 46 47 48 47A

PROJECT NO:

REVISIONS:
1 1-5-89
2 1-13-89
3 2-7-89
4
5

DRAWN BY:
CHECKED BY:
DATE:
SCALE:
DRAWING NO. 86132
SHEET G - 11 OF 20

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CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

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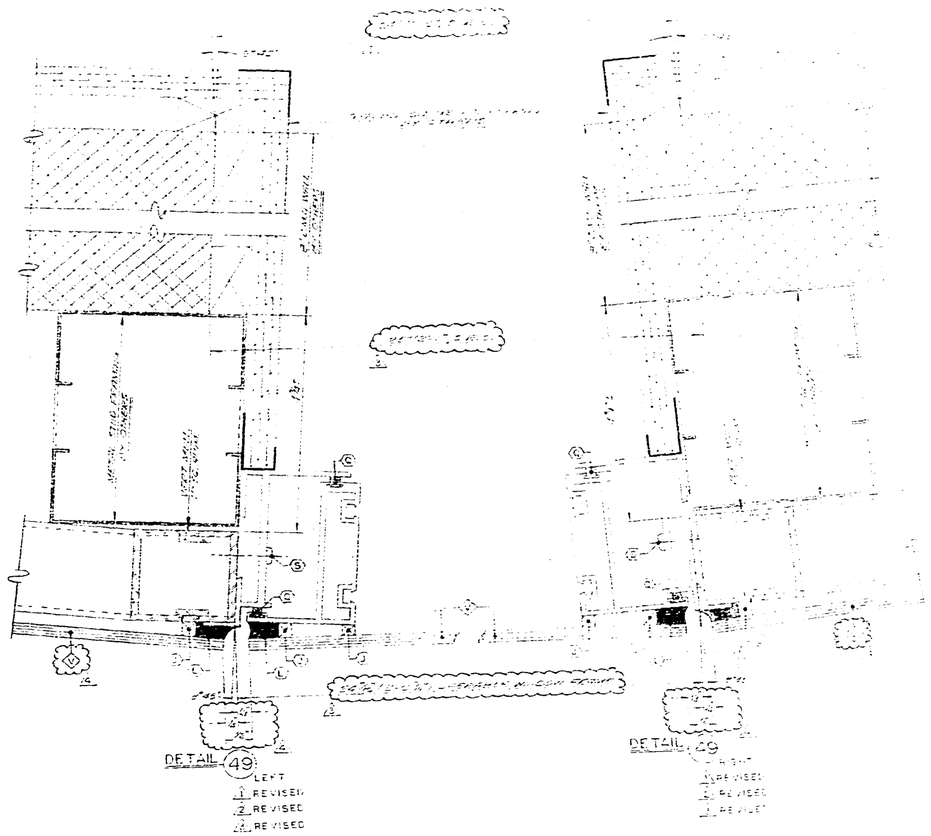
26



DETAIL 49 LEFT

DETAIL 49

1 REVISED
2 REVISED
3 REVISED

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

RANDY LUCAS INC.
6391 N.W. 25 AVE.
FT. LAUDERDALE FL 33309
(305) 977 - 5055
GLAZING CONTRACTOR

SEAL

PROJECT: CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA

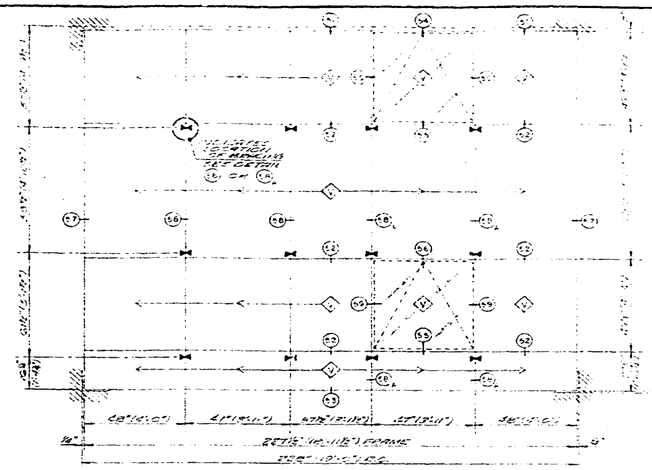
SHEET TITLE: DETAIL 49

PROJECT NO.

REVISIONS
1 12-19-88
2 1-5-89
3 1-13-89
4 2-7-89

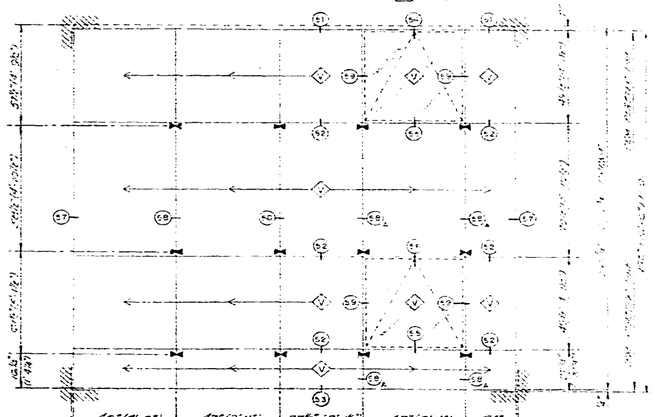
DRAWN BY:
CHECKED BY:
DATE: 12-8-88
SCALE: 1/4"=1'-0"
DRAWING NO. 88132
SHEET G - 12
OF 20

26



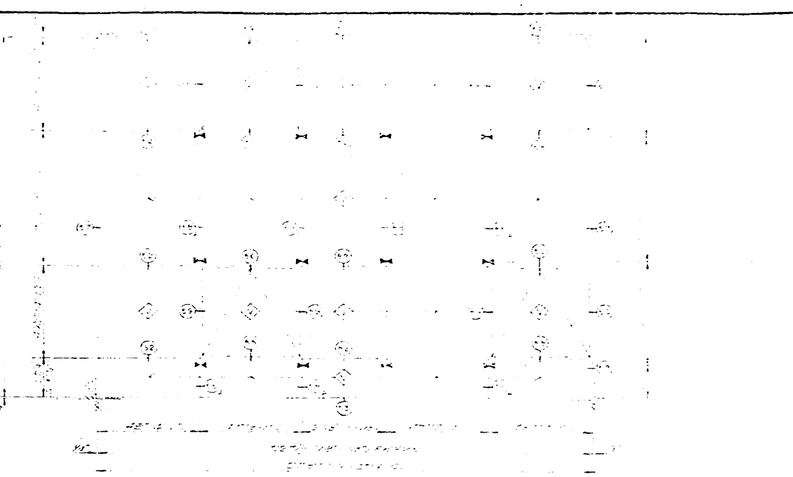
ELEVATION (R)1 1 REQUIRED
AND
ELEVATION (R)3 1 REQUIRED

1 REVISED
2 REVISED
3 REVISED



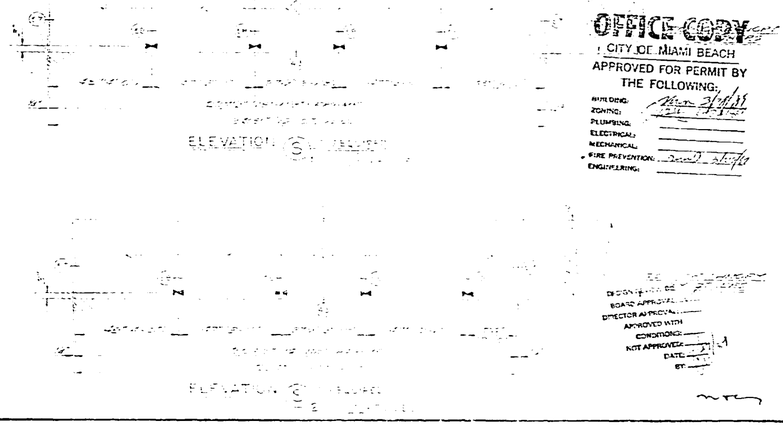
ELEVATION (R)4 1 REQUIRED

1 REVISED 2 REVISED 3 REVISED



ELEVATION (R)2 1 REQUIRED

ELEVATIONS



ELEVATION (S)1 1 REQUIRED

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

DESIGN REVIEW BOARD APPROVAL
DIRECTOR APPROVAL
APPROVED WITH CONDITIONS:
NOT APPROVED
DATE:
BY:

RANDY LUCAS INC
6051 N.W. 29 AVE.
FT. LAUDERDALE, FL 33309
(305) 977-5006
GLAZING CONTRACTOR

SEAL

PROJECT: CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA

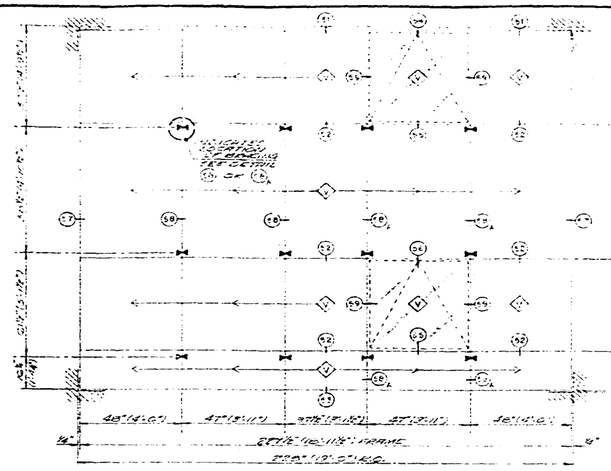
SHEET TITLE: ELEVATIONS
(R)1 (R)2 (R)3 (R)4 (S)1 (S)2

PROJECT NO:

REVISIONS:
1 1-5-09
2 1-13-09
3 2-17-09

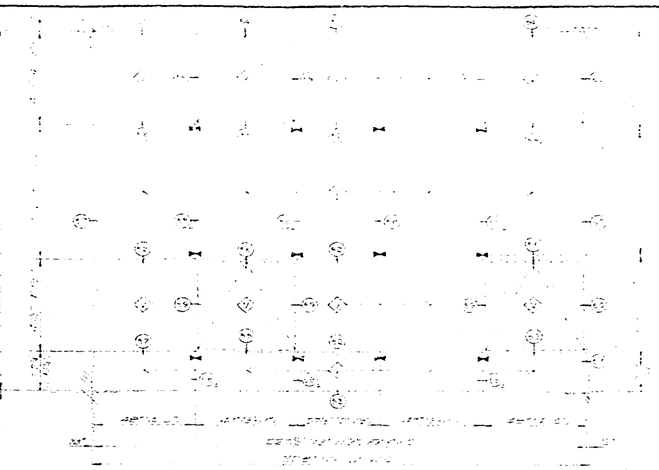
DRAWN BY: GREY
CHECKED BY:
DATE: 12-12-88
SCALE: AS NOTED
DRAWING NO: 88132
SHEET G-13
OF 20

26



ELEVATION (R)1 REQUIRED
AND
ELEVATION (R)3 REQUIRED

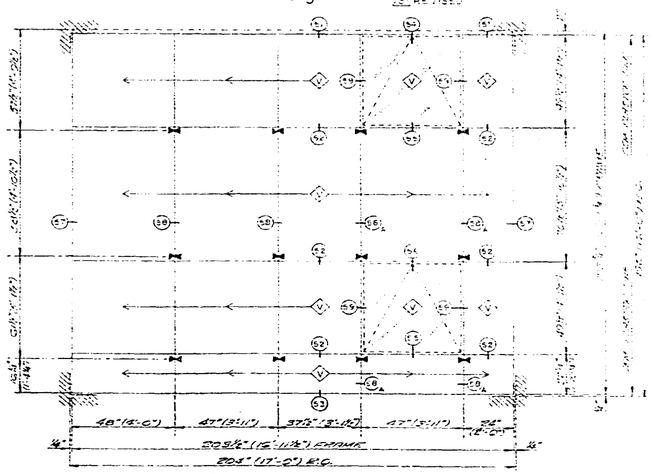
1 REVISED
2 REVISED
3 REVISED



ELEVATION (R)2 REQUIRED

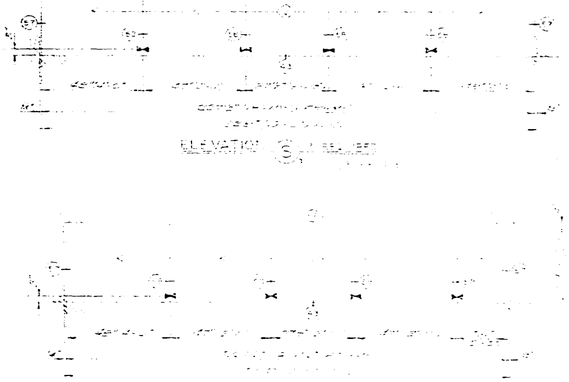
ELEVATIONS

NOTE
ALL DIMENSIONS ARE SUBJECT TO FIELD VERIFICATION



ELEVATION (R)4 REQUIRED

1 REVISED 2 REVISED 3 REVISED



ELEVATION (S)2 REQUIRED

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

BOARD APPROVAL:
DIRECTOR APPROVAL:
APPROVED WITH
CONDITIONS:
NOT APPROVED:
DATE:

RANDY LUCAS INC.
6001 N.W. 29 AVE
FT. LAUDERDALE, FL. 33309
(305) 977 - 5055
GLAZING CONTRACTOR

SEAL

PROJECT: CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA
SHEET TITLE: ELEVATIONS
(R)1, (R)2, (R)3, (R)4, (S)1, (S)2

PROJECT NO:

REVISIONS:
1 1-5-89
2 1-13-89
3 2-17-89

DRAWN BY: GRF
CHECKED BY:
DATE: 12-12-88
SCALE: AS NOTED
DRAWING NO: 88132
SHEET G - 13
OF 20

26

DETAIL (51)
1 REVISED
2 REVISED
3 REVISED

DETAIL (52)
1 REVISED

DETAIL (53) 1 REVISED 2 REVISED

DETAIL (54)

DETAIL (55)
1 REVISED
2 REVISED

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT-BY
THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
CERTIFICATE OF USE:

RANDY LUCAS INC.
6001 N.W. 29 AVE.
FT. LAUDERDALE, FL. 33309
(305) 977 - 5055
GLAZING CONTRACTOR

SEAL

PROJECT:
CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA

SHEET TITLE:
DETAILS (51) (52) (53) (54) (55)

REVISIONS:
1 1-6-89
2 1-16-89
3 2-7-89

DRAWN BY: GHOST
CHECKED BY:
DATE: 12/16/88
SCALE: FULL SIZE
DRAWING NR: 88132
SHEET G - 14
OF 20

26

DETAIL 56 — REVISED 1, REVISED 2

DETAIL 56A

DETAIL 57 — REVISED 1, REVISED 2

DETAIL 58 — REVISED 2

DETAIL 58A

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:
SUT DRUG:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

RANDY LUCAS INC.
6001 N.W. 29 AVE.
FT LAUDERDALE, FL. 33309
(305) 977 - 5095
GLAZING CONTRACTORS

SEAL

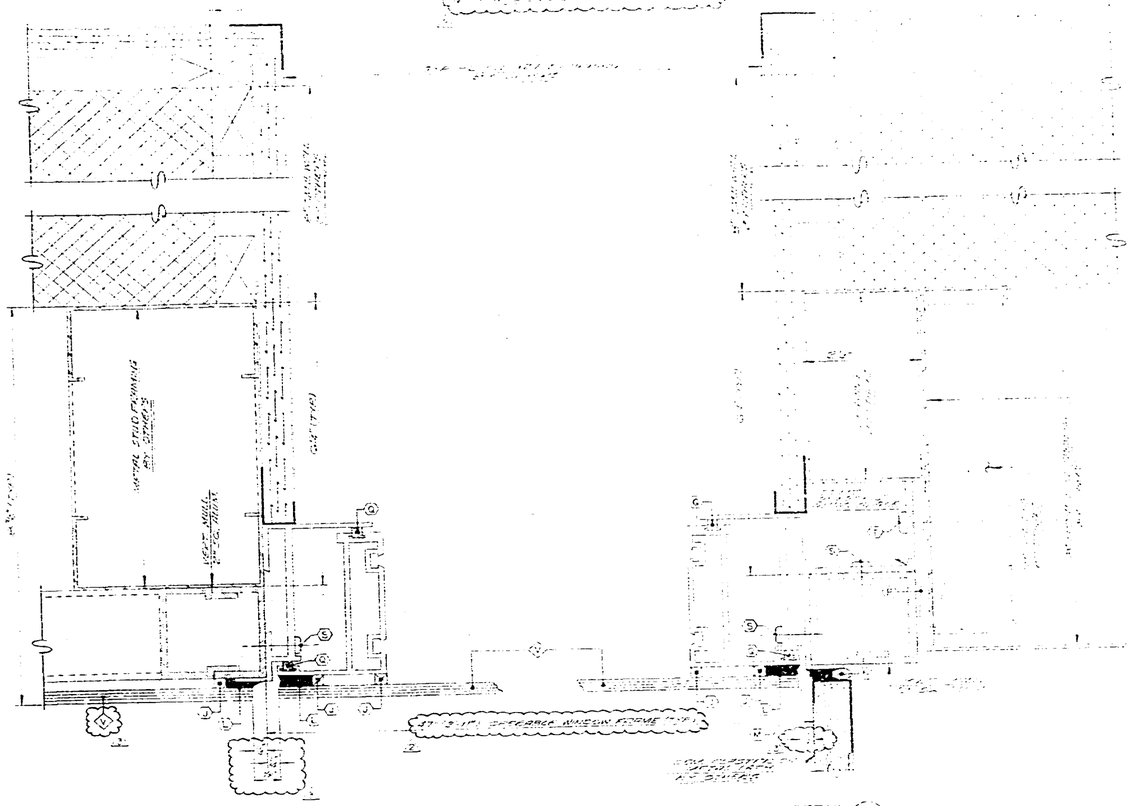
PROJECT: CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA
SHEET TITLE: DETAILS 56 56A 57 58 58A 59A

PROJECT NO:

REVISIONS:
1 1-5-89
2 1-16-89
3 2-7-89
4
5

DRAWN BY: GARY
CHECKED BY:
DATE: 12-12-88
SCALE: 1/8" 1'-0"
DRAWING NO: 56132
SHEET: G - 15 OF 20

26



OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:
BUILDING: [illegible] 3/1/89
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION: [illegible] 2/28/89
ENGINEERING:

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FT LAUDERDALE, FL 33309
(305) 977 - 5055
GLAZING CONTRACTOR

SEAL

PROJECT: CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA
SHEET TITLE: DETAILS 59 60

PROJECT NO:

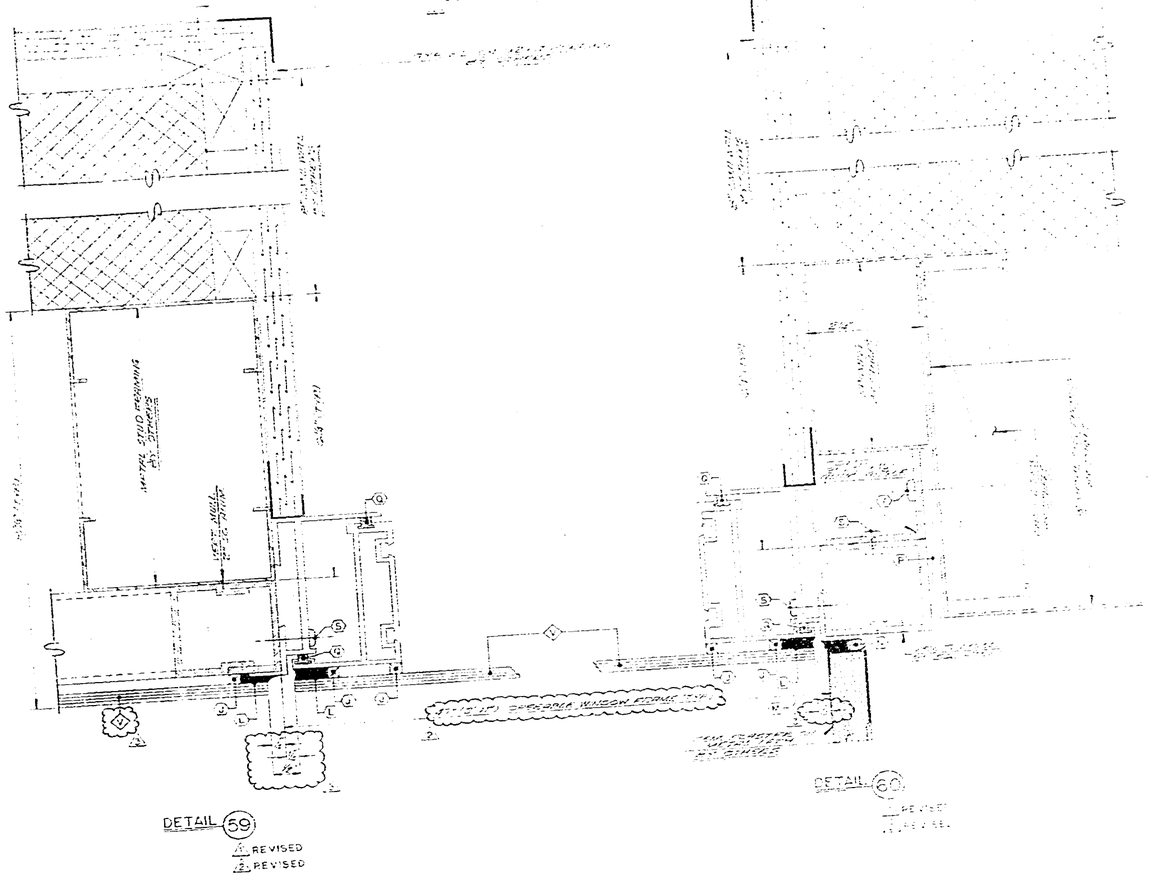
REVISIONS:
1 1-5-89
2 1-16-89
3 2-7-89
4
5

DRAWN BY: GRG
CHECKED BY:
DATE: FEB 89
SCALE: AS SHOWN

DRAWING NO: 85132

SHEET G - 16
OF 20

26



DETAIL 59
1 REVISED
2 REVISED

DETAIL 60
REVISED

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

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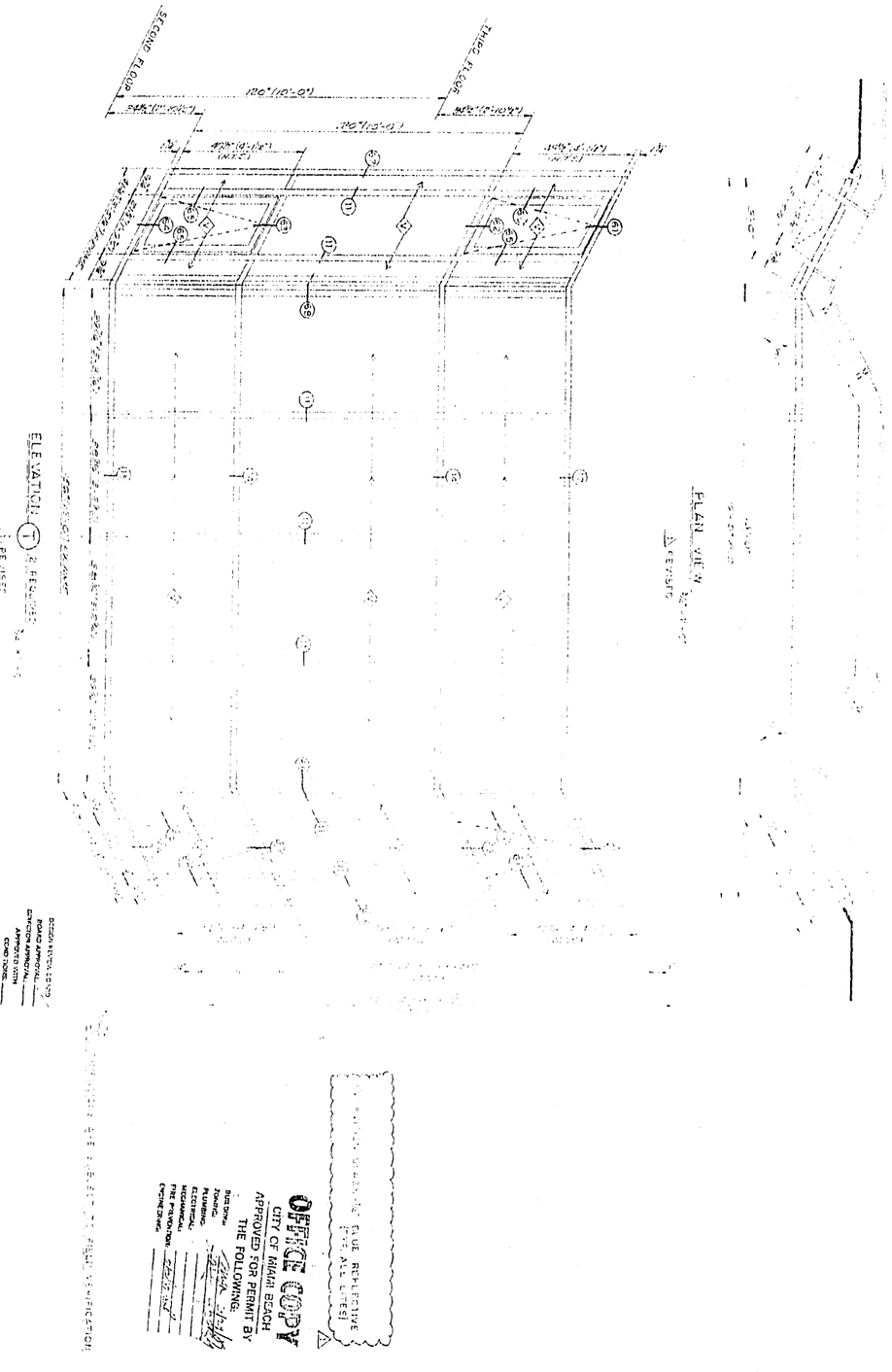
RANDY LUCAS INC.
6001 N.W. 29 AVE.
FT LAUDERDALE, FL 33309
(305) 977-5355
GLAZING CONTRACTOR

SEAL

PROJECT: CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA
SHEET TITLE: DETAILS 59 60

PROJECT NO:
REVISIONS:
1-5-89
1-16-89
2-7-89
DRAWN BY:
CHECKED BY:
DATE:
SCALE:
DRAWING NO. 88132
SHEET G-16
OF 20

26



OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING
PLANNING
PUBLIC WORKS
ELECTRICAL
MECHANICAL
FIRE PREVENTION
ENGINEERING

DESIGN REVIEW BOARD
BOARD OF ADJUSTMENT
HISTORIC PRESERVATION BOARD
APPROVAL
CONDITIONS
NOT APPROVED
DATE
BY

PROJECT
CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA

SHEET TITLE:
PLAN VIEW AND ELEVATION (T)

SEAL

RANDY LUCAS INC.
6001 N.W. 29 AVE.
FT. LAUDERDALE, FL 33309
(305) 977 - 5055
GLAZING CONTRACTOR

SHEET G - 17
of 20

DRAWING NO. 8932

DRAWN BY: JCCCV
CHECKED BY: RLI
SCALE: 3/16"=1'-0"
DATE: 10-31-89

ARCHIVE 4-10-89

PROJECT NO.

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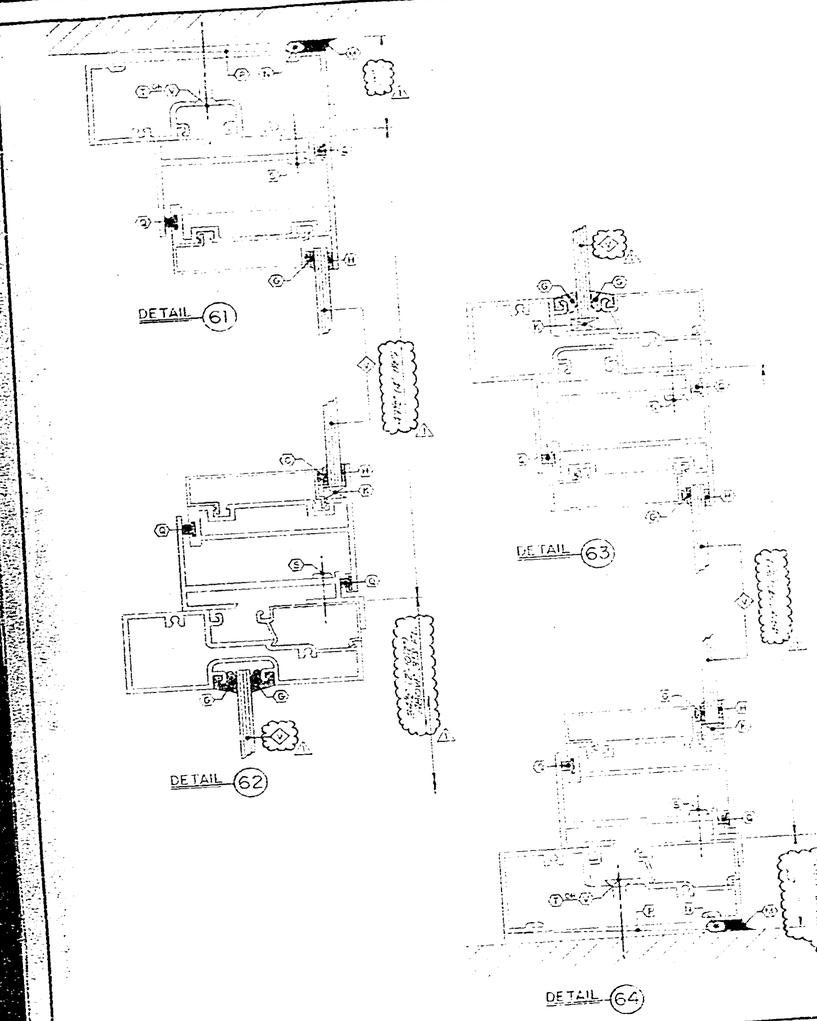
57



OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

NOTES

RANDY LUCAS INC
6001 N.W. 29 AVE.
FT. LAUDERDALE, FL. 33309
(305) 977 - 5855
GLAZING CONTRACTOR

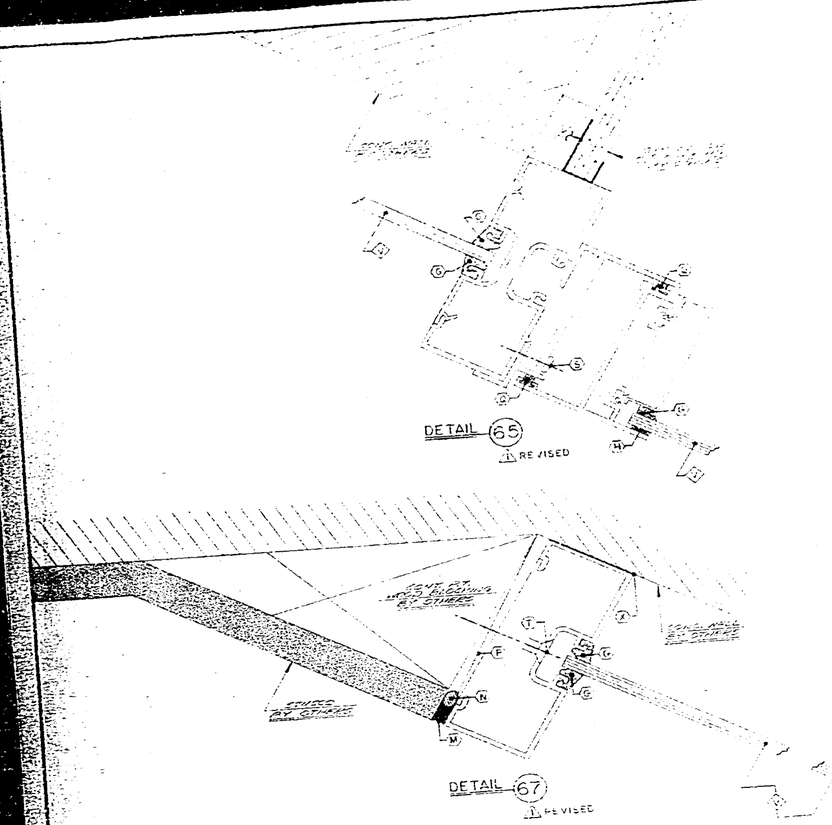
SEAL

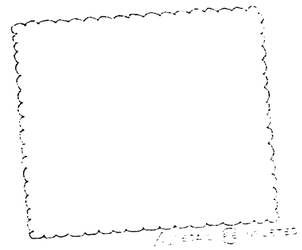
PROJECT: CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA
SHEET TITLE: DETAILS 61 62 63 64
PROJECT NO.

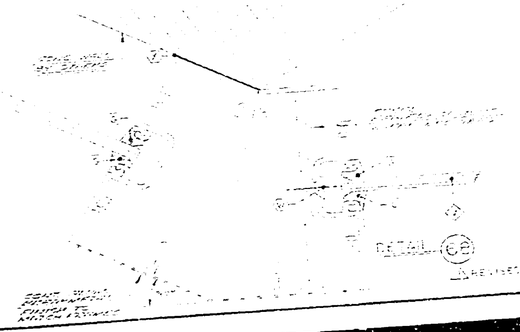
REVISIONS:
1 2-10-89
2
3
4
5

DRAWN BY:
CHECKED BY:
DATE:
SCALE:
DRAWING NO. 88132
SHEET G - 18 OF 20

26







OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING: 7/21/87
ZONING:
FIL.HNESS:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION: 7/21/87
ENGINEERING:

NOTICE
[illegible]

RANDY LUCAS INC.
6001 N.W. 29 AVE.
FT. LAUDERDALE, FL. 33309
(305) 977 - 5055
GLAZING CONTRACTOR

SEAL

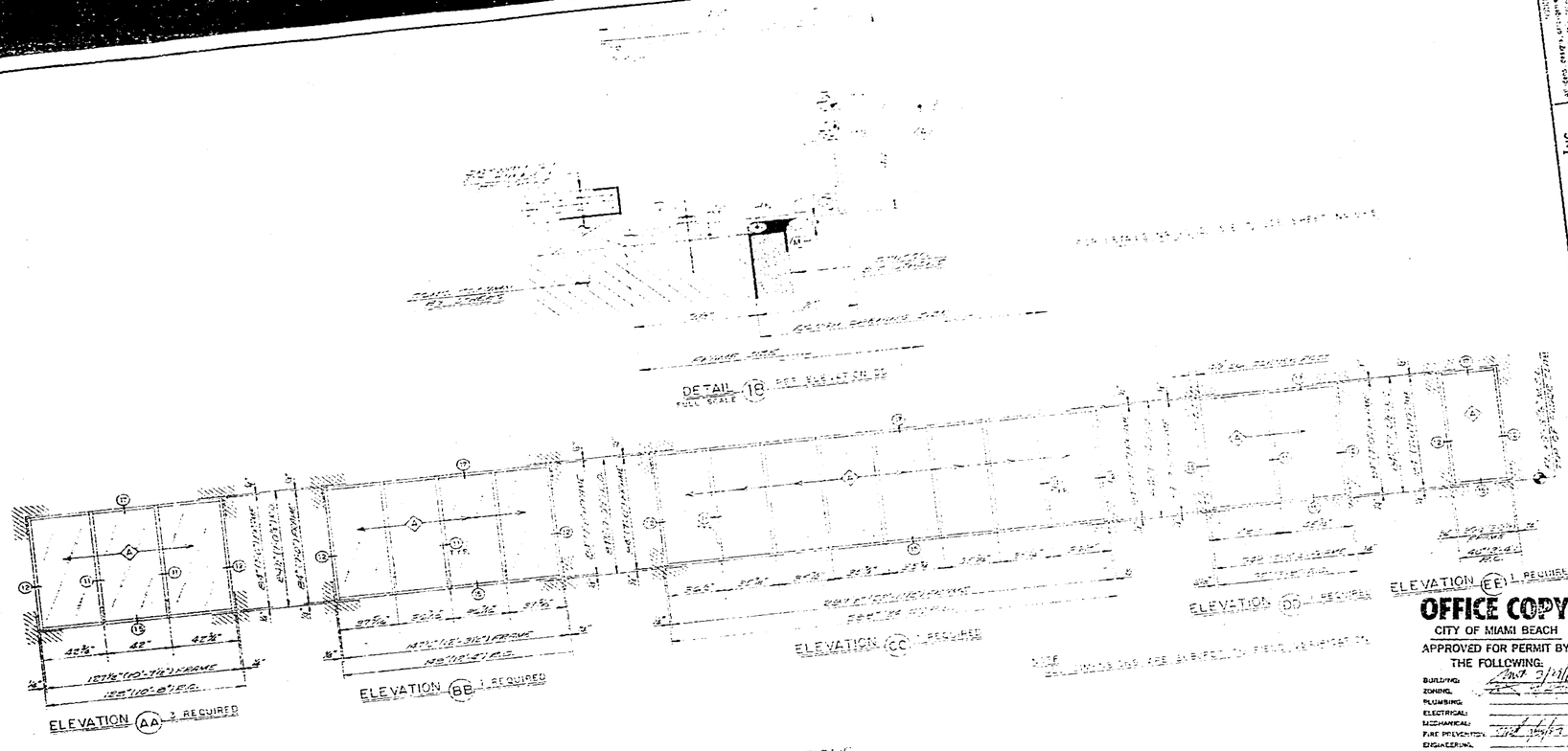
PROJECT: CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA
SHEET TITLE: DETAILS 65 67 68

PROJECT NO.:

REVISIONS:
1 2-13-89
2
3
4
5

DRAWN BY: GARY
CHECKED BY:
DATE: 7/2-87
SCALE: AS/E SIZE
DRAWING NO. 88132
SHEET G - 19
OF 20

26



ELEVATIONS

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING: Cont 3/21/83
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION: Cont 3/21/83
ENGINEERING:

R
RANDY LUCAS INC.
6061 N.W. 13 AVE.
FT. LAUDERDALE, FL. 33309
(305) 977-9055
GLAZING CONTRACTOR

SEAL:

PROJECT: CRYSTAL BEACH CLUB
MIAMI BEACH FLORIDA
SHEET TITLE: ELEVATIONS AA BB CC DD EE

REVISIONS:

DRAWN BY: GREY
CHECKED BY:
DATE: 2-10-83
SCALE: AS NOTED
DRAWING NO. 86132
SHEET G - 20 of 20

26

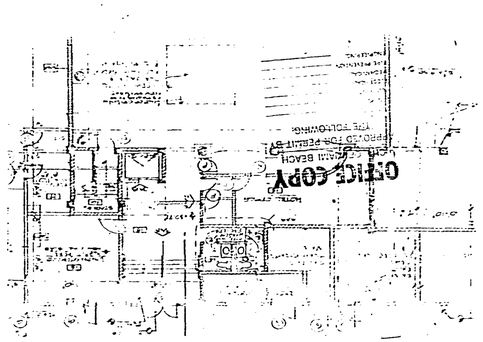
LD
CN

1000188

PERMIT #

B9611375

ADDRESS: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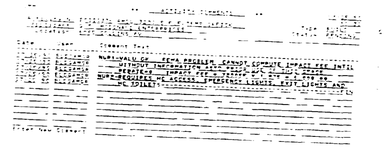
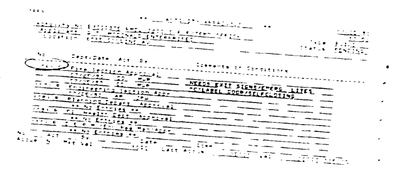
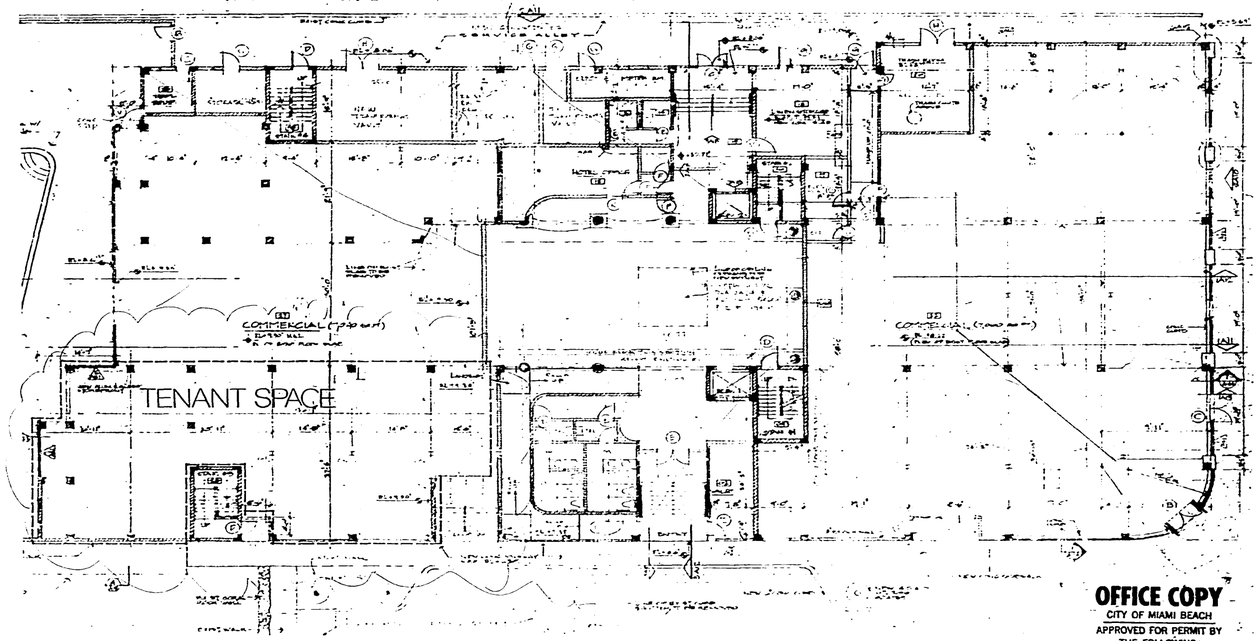






BUILDING PLAN

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING
ZONING
PLUMBING
ELECTRICAL
MECHANICAL
FIRE PREVENTION
ENGINEERING

CRYSTAL BEACH CLUB

Stanley Pimenti, Architect
Winter Park, Florida 32789

1

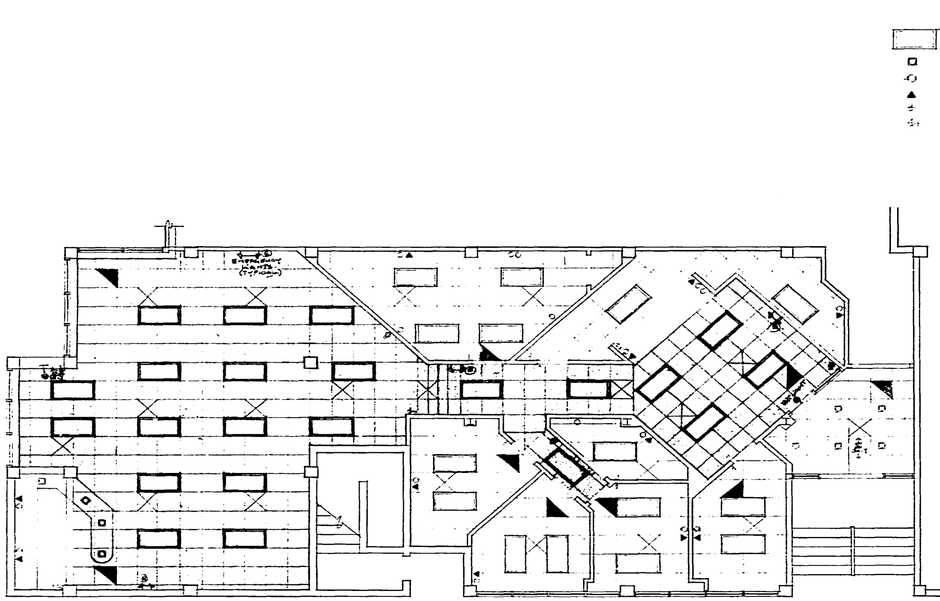
FLOOR PLAN

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING
ZONING
PLUMBING
ELECTRICAL
MECHANICAL
FIRE PREVENTION
ENGINEERING

CRYSTAL BEACH CLUB

Stanley Forrest, Architect
Winter Park, Florida 32789

2



LEGEND

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

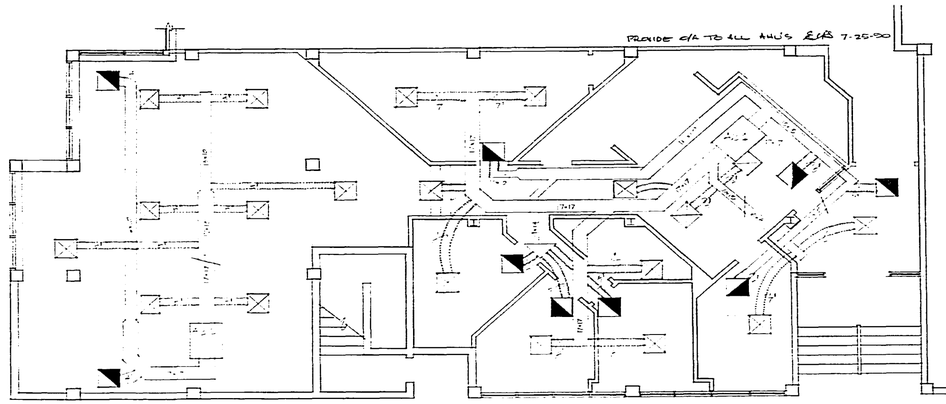
BUILDING
ZONING
PLUMBING
ELECTRICAL
MECHANICAL
FIRE PREVENTION
ENGINEERING

REFLECTIVE CEILING / ELECTRIC PLAN

CRYSTAL BEACH CLUB

Stanley Forrest, Architect
Winter Park, Florida 32789

3



A/C PLAN

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING:
ZONING: A. Hoffman
PLUMBING:
ELECTRICAL:
MECHANICAL: E.H.B. 7-26-90
FIRE PREVENTION: M.E. 7-24-90
ENGINEERING:

CRYSTAL BEACH CLUB

Stanley Forrest, Architect
Winter Park, Florida 32789

4

FRAMING PLAN

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING
ZONING
PLANNING
ELECTRICAL
MECHANICAL
FIRE PREVENTION
PUBLIC WORKS

CRYSTAL BEACH CLUB

Stanley Forrest, Architect
Winter Park, Florida 32790

5

CRYSTAL
tweed
B9000375
SMOKE FREE

NEXT

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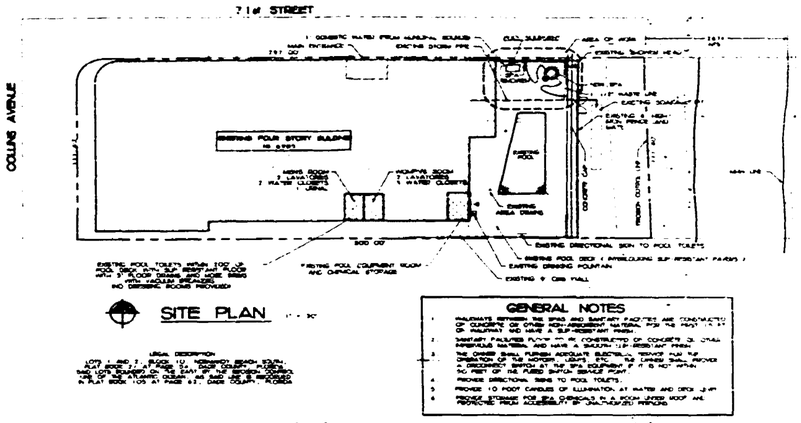
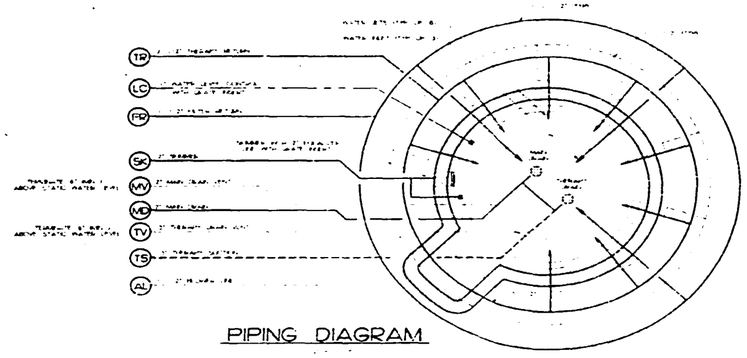


LEGAL DESCRIPTION:

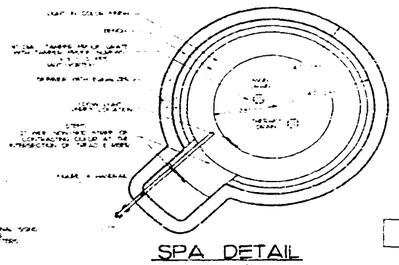
LOT 1 AND 2, BLOCK 12, OCEAN BEACH ADDITION, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 1 AT PAGE 27, DADE COUNTY, FLORIDA.

GENERAL NOTES

1. ALL WORK TO BE DONE ON THE POOL AND SURROUNDING AREAS SHALL BE CONSTRUCTED OF CONCRETE OR OTHER NON-SLIP RESISTANT MATERIAL. NO TILE OR TERRAZZO OR SIMILAR MATERIAL OR SURFACE SHALL BE USED THAT WOULD BE A SLIP RESISTANT HAZARD.
2. SANITARY FACILITIES SHALL BE PROVIDED IN THE CONSTRUCTION OF CONCRETE OR OTHER SIMILAR MATERIAL AND HAVE A SMOOTH, NON-SLIP RESISTANT FINISH.
3. THE OWNER SHALL FURNISH ADEQUATE ELECTRICAL VOLTAGE FOR THE OPERATION OF THE POOL EQUIPMENT, LIGHTS, ETC. THE OWNER SHALL PROVIDE A DESIGNATED SERVICE AT THE SPA EQUIPMENT, 2" I.D. NOT MORE THAN 50 FEET OF THE FILTER SUCTION SERVICE POINT.
4. PROVIDE DIRECTIONAL SIGNS TO POOL TOILETS.
5. PROVIDE 10 FOOT CANDLES OF ILLUMINATION AT WATER AND DECK LEVEL.
6. PROVIDE EXTENDED POP SPILL CONTROL IN A 24 INCH LEVEL ROOF AND REMOVE FROM ACCESS AT THE OUTLOOKS PIPING.

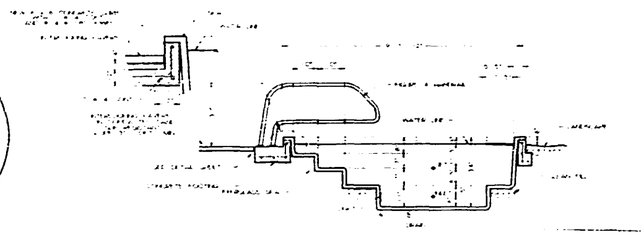


PIPING DIAGRAM

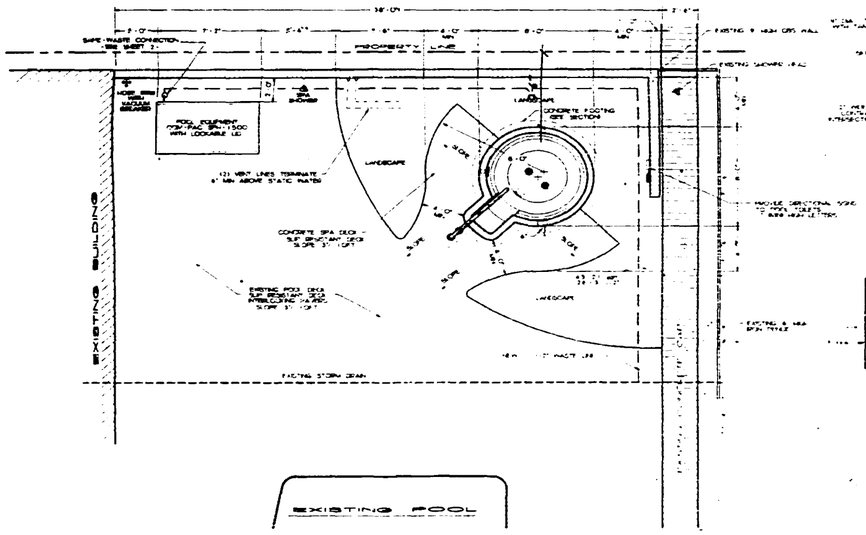


SPA DETAIL

A 7'x7'x3'-6" FIBERGLASS "DE-FAB SPA" BY NATIONAL EQUIPMENT MFG. CORP. MODEL 8' ROUND W/O.S.



SPA SECTION



WARNING !

FLOTATION DATA

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

X BUILDING	
X ZONING	
PLUMBING	
ELECTRICAL	
MECHANICAL	
X FIRE PREVENTION	
X ENGINEERING	

APPROVED

#8918P3259-S

DATE APR 15 1991

Dave Davis 4-4-91

ESSIG POOLS, INC.

MARK	REVISION DESCRIPTION	DATE
	H.R.S. COMMENTS	04/02 91

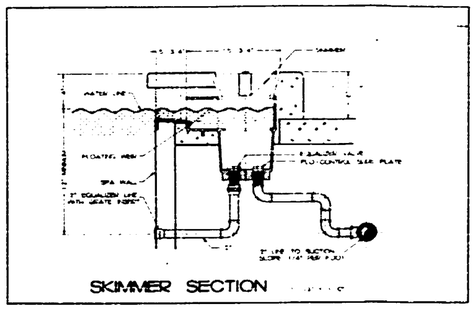
DAVIS ENGINEERS P.A.
780 TAMIAMI CANAL ROAD
MIAMI, FLORIDA 33144
(305) 266-2566

CRYSTAL BEACH CLUB
6985 COLLINS AVE.
MIAMI BEACH, FLORIDA

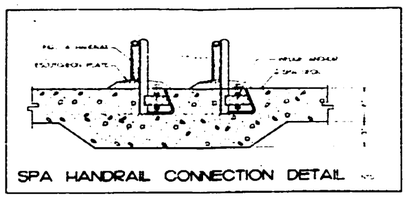
JOB NO. 91EP06 | DATE 03.27.91 | 1/2

SITE / PLAN / SECTION

B910037



SKIMMER SECTION

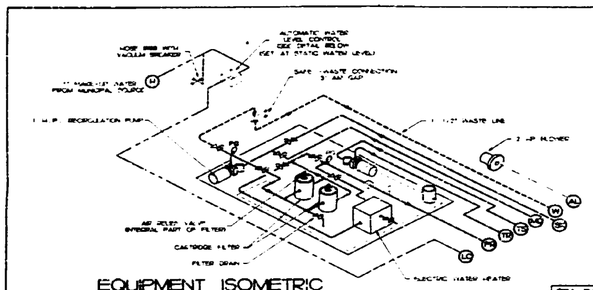


SPA HANDRAIL CONNECTION DETAIL

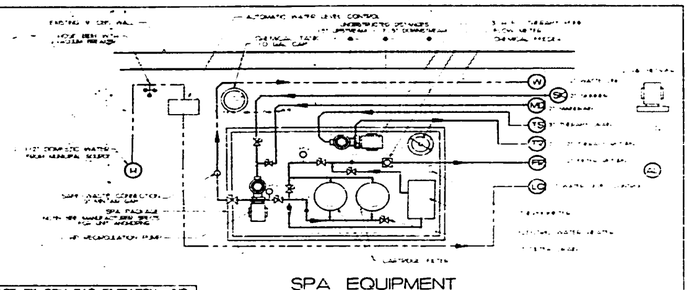
SPA EQUIPMENT DATA

ELECTRICAL NOTES

RULES FOR BATHERS

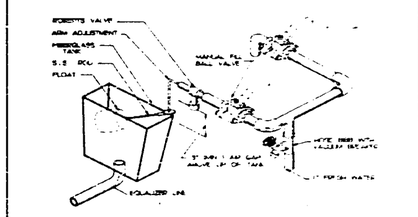


EQUIPMENT ISOMETRIC

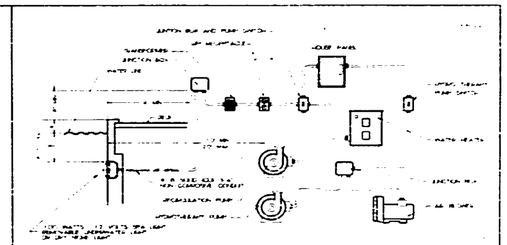


SPA EQUIPMENT

SPA PACKAGE BY COM-PAC FILTRATION, INC.
PRESSURE CARTRIDGE MODEL SPH-1500



AUTOMATIC WATER LEVEL CONTROL



ELECTRIC DIAGRAM

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

APPROVED
Serial No. 13915P3259-S
Date APR 15 1991

MARK	REVISION DESCRIPTION	DATE
	H.R.S. COMMENTS	04/02 91

DAVIS ENGINEERS P.A.
780 MIAMI CANAL ROAD
MIAMI, FLORIDA 33144
(305) 266-2566

JOB No. 91EP05 | DATE 02.27.91 | 2/2

ESSIG POOLS, INC.

CRYSTAL BEACH CLUB
6985 COLLINS AVE.
MIAMI BEACH, FLORIDA

DETAILS / PIPING / DATA

B91003773

STATE OF FLORIDA
DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES
OFFICE OF LICENSURE AND CERTIFICATION
PUBLIC HEALTH ENGINEERING SERVICES
JACKSONVILLE, FLORIDA 32231

APPLICATION FOR APPROVAL OF PLANS FOR SWIMMING POOL

APPROVED

DHRS No. 1391SP3259-S

APR 15 1991

B910037

000443

TO THE DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES:

The First Continental Corporation
(Legal title of entity making application, i.e., municipality, corporation or not, natural person)

whose address is 2758 Poinciana Boulevard, Kissimmee, Fl 32741
(Street and Number) (City) (Zip Code)

a Corporation
(Partnership, joint venture, corporation or individual)

and its engineer or agent (if a permanent pool), hereinafter called the applicant in consideration of The Department of Health and Rehabilitative Services, hereby files application and other necessary data prepared by

Dasta Engineers, P. A.
(Engineer or Firm)

of 7351 Taylor Creek Road, Miami, Florida 33144
(Street and Number) (City or Town) (Zip Code)

who is hereby designated as the engineer and the engineering features including supervision of construction and responsible charge, as distinguished from any supervision duties of clerical staff, of this project for the completion of

New Pool
(Existing pool, new pool, or alteration of existing pool)

to serve Crystal Beach Club Located at 6545 Collins Avenue
(Name of hotel, or apt. hotel, etc.) (Street Address)

owned the city of Miami Beach in the county of Dade State of Florida, as required by the regulations of the Department of Health and Rehabilitative Services and hereby submitted to The Department of Health and Rehabilitation for a no fee approval of the project.

These plans and specifications and attached documents shall be approved and accepted for the applicant when they have received the approval of The Dade County of Health and Rehabilitative Services.

Each communication, shall, therefore, until be addressed to First Continental Corporation

and shall be submitted and represented by Owner
(Owner or agent)

address is at
(Street and Number) (City or Town) (Zip Code)

This application is made under and in full accord with the provisions of Chapters 381, and 514 Florida Statutes, and Chapter 10D-5 Swimming Pools and Bathing Places, Florida Administrative Code. The applicant(s) agree that any changes in or deviation from the plans and specifications approved by The Dade County of Health and Rehabilitative Services will be made except with the consent and approval of The Department of Health and Rehabilitative Services. Further, the applicant(s) and owners agree to provide the necessary funds for investigation and, thereafter, operation for the approved project and that maintenance and repair of the public swimming pool.

Attached is a certified check or money order for required fee of $ 225.

The above engineer certifies to the preparation of the engineering documents submitted herewith and agrees to furnish a certificate of construction and installation upon satisfactory completion of the project.

Signature, if engineer registered under Florida Statutes

Date March 27, 1981

Printed name and Florida registration number

Signature (Owner, officer or Manager)

Stanley Forrest
(Typed name and Title of above)

Architect for
First Continental Corp.

ENGINEER'S SEAL

SWIMMING POOL INFORMATION

Name of Pool Crystal Beach Club

1. Estimated cost of laundry (not $ 15,000) 2. Bathing Load 5

3. Type of pool: Private Yes Outdoor Yes Indoor Yes Non-Transient Yes

4. Shape swimming pool S. S. Use of pool Diving

A = S. S. F = 24"
B = S. S. Depth 4'-0" Min.
C = 40'-0" Max. Length S. S.
D = S. S. Area 43 Sq. Ft.
E = S. S. Perimeter Lin. Ft.
F = 42"

5. Volume of pool(s) (cu. ft.) S. S. Flow rate GPM

6. Number and height of diving boards or towers None

7. Material from which pool walls and floor are constructed Painted Gunite, Acrylic
Surface Finish Acrylic

8. Source of water MDWSD Alum use No Date

	Water Closets	Urinals	Lavatories	Drinking Fountains
Male	1	1	1	N/A
Female	1	-	1	N/A

Total number occupants from bath house load 100

10. Location of sanitary facilities Adjacent to Lobby

11. Number and location of showers One on Spa Deck, 1 at Pool Spa

12. Number of hose connections provided One 1½" Lines are required

13. Number of pools served 1A Estimated population on pool 100 Number of persons 4 Elevator Yes X No

14. Describe method of pool water disposal To existing sewage plt.
Distance from pool 245'

15. Water treatment system by Sta-Rite P24A3E1 50 GPM at 40 TDH HP 1
Make and Model

Note: Attach pump manufacturer's data

16. Filter(s) 2 Cartridge Hayward SF 105 Area 210 Sq Ft
Type Make Model

17. Disinfection equipment Make and Model Heinetech Brominator CB 4414

Solution Tank PVC Piping Material PVC Other Feed Equipment PVC

18. Pump(s) Make and Model Sta-Rite P24A3E1
Pump Capacity 50 GPM

19. Remarks Propane (Dade Water Co. Total Dissolved Solids
Total Alkalinity, Calcium Hardness, As per above
Ben Ward, and Graham Assn.

B91003737

000444

NEXT

PROfessional Microfilm SErvices, Inc.
Miami, Florida

FILE

THIS IS TO CERTIFY THAT PROFESSIONAL MICROFILM SERVICE, INC. PRESENTS THE FOLLOWING IMAGES AS AN ACCURATE AND COMPLETE MICROFILM COPY OF THE ORIGINAL BUSINESS FILES AS EDITED BY THE INSTITUTION INSTRUCTIONS.

PERMIT
B9300079

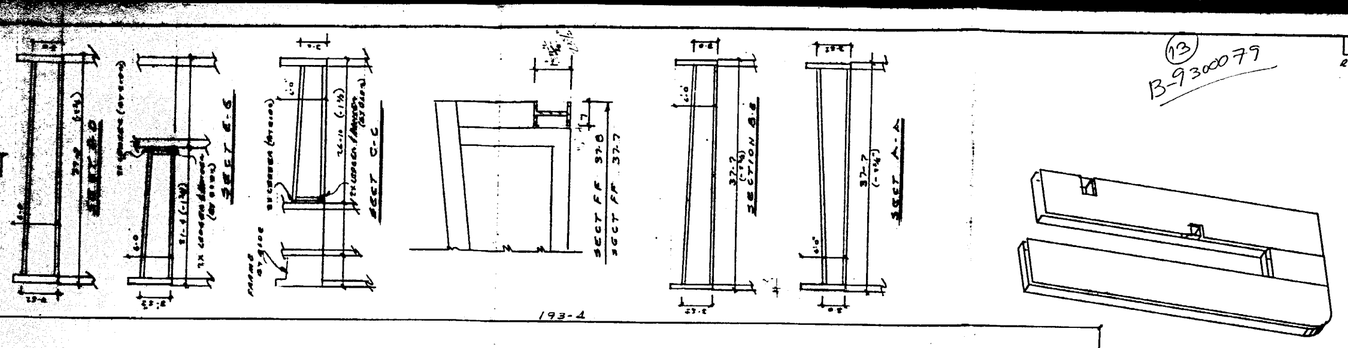
106

U000468

ROOF TRUSS LAYOUT

SCALE: 1/8" = 1'-0"

(9302)



(13) B9300079

1-3-94-S
REV 1-13-94

ALL DIMENSIONAL MUST BE CHECK & VERIFY FIELD & DO NOT PROCEED IN ANY MANNER IF CONDITIONS DIMENSIONS

OFFICE COPY

APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING: Mar 29/94
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

Permit # BMS 40295 B9300079

PERMANENT BRACING		
T12	3-1	12

SHOP DRAWINGS
DAVIS ENGINEERS, P.A.
780 TAMIAMI CANAL RD. - MIAMI, FLA. 33144

DATE RECD 4-4-94 COPIES ☐ DATE RTD 4/12/94 COPIES 3
DISAPPROVED By
APPROVED AS SUBMITTED By
APPROVED AS NOTED By

Approval of the design and detail only, and does not authorize changes to construction required documents. Contractor shall comply with requirements of general conditions, and preliminary general conditions, special conditions and specifications as indicated in the drawings and summaries. Owner is not responsible for determining, ordering, and coordinating with GC or trades. E.O. is responsible to comply with contract documents.

JAN 31 '94

CAPITAL BEACH

ALL DIMENSIONS AND LAYOUT MUST BE CHECKED BY BUILDER BEFORE FABRICATION OF TRUSSES

TRUSSES MAY NOT BEAR ON ANY INTERIOR WALL OR PARTITION UNLESS DESIGNED FOR SAME. DO NO CUT OR ALTER TRUSSES WITHOUT AUTHORIZATION FROM MANUFACTURER. NO CLAIMS OR BACKCHARGES WILL BE HONORED IF NOT MADE WITHIN 24 HOURS FOLLOWING DELIVERY.

FIELD BRACING IS NOT THE RESPONSIBILITY OF THE TRUSS FABRICATOR. PERSONS ERECTING TRUSSES ARE CAUTIONED TO SEEK PROFESSIONAL ADVICE REGARDING ERECTION BRACING WHICH IS ALWAYS REQUIRED TO PREVENT TOPPLING AND COLLAPSING DURING ERECTION AND PERMANENT BRACING WHICH MAY BE REQUIRED IN SPECIFIC APPLICATIONS. TRUSSES SHALL BE ERECTED AND PLUMBED TO A STRAIGHT AND PLUMB CONDITION. WHERE NO CEILING IS APPLIED DIRECTLY TO TOP CHORDS, THEY SHALL BE BRACED AT 10'-0" O.C. MAX.

I HAVE EXAMINED THIS FRAMING PLAN AND THE WAY THE ATTACHED TRUSS DESIGN AND CONSTRUCTION ARE BEING USED AND FIND THAT THEY MEET THE REQUIREMENTS OF THE BUILDING. ALL DIMENSIONS HAVE BEEN VERIFIED AND ARE IN ACCORDANCE WITH THE ORIGINAL DRAWING AS WELL AS TRUSS LAYOUT. OVERHANG DETAILS PITCH AND MANNER OF TRUSSES AND APPROVE THEM AS SHOWN.

BY: _____ DATE: _____

CC

DADE TRUSS
Company Inc.
8491 N.W. 74 AVE., MIAMI, FLA. 33166
PH. (305) [illegible] FAX: [illegible]

CUSTOMER ALL STATE HOME
MODEL _____ DATE 12-29-93
LOT _____ BLOCK GRAND CORAL
JOB ADDRESS 6985 COLLINS AVE.
ARCHITECT _____

B9300079

0004769

PERMIT NUMBER

B9300079
BMS 40245

ADDRESS

8

(APPL)
Printed:11/15/93 10:21
Version:BMISC 9301

CITY OF MIAMI BEACH
Building Department
555 Hank Meyer Blvd. (17th St.)
Miami Beach, Florida 33139
(305) 673-7610

6985 COLLINS AV
Permit Number :BMS40245
Status : PENDING

This type : APPLICATION BMISC
(This is NOT a PERMIT)
Parcel number : 3211-002-0700
Group-occup/use: MF+

Owner : 6985 COLLINS AVE CORP
Applicant : ALLSTATE BUILDERS INC.
Applicant Addr : 2843 S. BAYSHORE DR
MIAMI, FLORIDA 33133
Phone number : 305/443/3838
Class code : REVIS
Valuation : 0
Construction : OTH
Permit to do : PLANS REVISION PERMIT #B9300079
Job Address : 6985 COLLINS AV

Project Number: A9308156
Validated by : AA
Inspector area: N
Date Applied : 11/15/93
Date Approved :
Date Completed:
Date To Expire:

*** Activity Fees ***

Fee description	Units	Fee/Unit	Ext fee	Data
ENTER REVISED PLANS FEE (MAX $200)>	200.00		200.00	
TOTAL MISCELLANEOUS BUILDING FEES			200.00	

TOTAL ALL MISCELLANEOUS FEES 200.00

*** Fees Required ***		*** Fees Collected & Credits ***	
Adjustments:	.00	Total Credits:	.00
Total Fees:	200.00	Total Payments:	200.00
		Balance Due:	.00

Distribution: 1-Building Inspection Cop(with Cashier Stamp), 2-Building Insp
3-City Accounting Division, 4-Metro Dade Co.Tax Assesor Dept., 5-Applicant
Rev: 9001, PFBLDG01,em)

8

DMM

** ACTIVITY COMMENTS **

Activity No: BMS40245 PLANS REVISION #B9300979
Applicant: ALLSTATE BUILDERS INC
Location: 6985 COLLINS AV

Type: ENTRC
Status: PENDING

No	Date	User	Comment Text
1	120393	BLDGADMN	THE WRITER. STRUCTURAL APPROVED
2	120693	BLDGADMN	NWR1-REQUIRES EMERGENCY LIGHTING
3	120693	BLDGADMN	-REQUIRES COMPLETE DADE COUNTY PRODUCT CONTROL APPROVAL
4	120693	BLDGADMN	LETTERS AND ENGINEERS CERTIFICATION LETTERS FOR ALL NEW
5	120693	BLDGADMN	WINDOWS AND SLIDING GLASS DOORS.
6	120693	BLDGADMN	-DADE COUNTY ROADWAY REPAIR IMPACT FEE 22X1000= 22,000
7	120693	BLDGADMN	-WHICH UNITS WILL BE HANDICAP RATED AND WHERE WILL THE
8	120693	BLDGADMN	ADDITIONAL HANDICAP PARKING BE

Enter Comment:
Add/Change/Delete: A (A/C/D) line: __ Note: Users may only update own Comments

No Impact Fee Assessment
Parking Variance
12/8/93

WAIVER from CC1 old permit
Parking variance
12/6/93

8

COMM

** ACTIVITY COMMENTS

Activity No BM840245 PLANS REVISION #6 /2x/1975
Applicant: ALLSTATE BUILDERS INC
Location: 6985 COLLINS AV

No	Date	User	Comment Text
1	112293	BLDGADMN	JF-1 DETAIL 5/3,PROVIDE DETAIL OF HOW PURLINS TO BRACE
2	112293	BLDGADMN	TO STEEL JOIST GIRDER
3	112293	BLDGADMN	JF-2 DETAIL 5/3, PROVIDE CONNECTION DETAIL FOR WOOD TRUSS
4	112293	BLDGADMN	JF-3 MUST VERIFY THAT EXISTING 4TH FLOOR SYSTEM WILL SUPPORT
5	112293	BLDGADMN	NEW LIVE LOADS. IF NECESSARY, FIELD VERIFY THE EXISTING
6	112293	BLDGADMN	SYSTEM TO INSURE THAT IT SUPPORTS THE GRAVITY LOADS
7	112293	BLDGADMN	JF-4 SHEET 1/3, MUST IDENTIFY REINFORCED MASONRY AS
8	112293	BLDGADMN	REQUIRING 1#5 EACH SIDE OF ALL OPENINGS
9	112293	BLDGADMN	JF-5 PROVIDE DEPTH AND LOADING FOR STEEL JOIST GIRDER
10	112293	BLDGADMN	IN ROOF PLAN. PROVIDE LOADING FOR BOTH GRAVITY AND
11	112293	BLDGADMN	UPLIFT LOAD CASES
12	112293	BLDGADMN	JF-6 PROVIDE CALCULATIONS (SIGNED AND SEALED BY ENGINEER
	Enter Comment:		
	Add/Change/Delete:		A (A/C/D) line: __ Note: Users may only update

8

(COMM

** ACTIVITY COMMENTS

Activity No BM540245 PLANS REVISION #[illegible]
Applicant: ALLSTATE BUILDERS INC
Location: 8985 COLLINS AV

No	Date	User	Comment Text
1	112293	BLDGADMN	FOR THE IMPACT THE NEW FLOOR WILL [illegible]
2	112293	BLDGADMN	FOUNDATION, FOR POT. GRAVITY LOADS AND [illegible]
3	112293	BLDGADMN	LOADING CASES
4	112293	BLDGADMN	JF-7 PROVIDE CALCULATIONS (SIGNED AND SEALED [illegible]
5	112293	BLDGADMN	CONNECTION FOR UPLIFT, FOR THE [illegible]
6	112293	BLDGADMN	JF-8 PROVIDE CALCULATIONS FOR THE STEEL [illegible]
7	112293	BLDGADMN	FOR UPLIFT. ALSO, PROVIDE A DETAIL FOR [illegible]
8	112293	BLDGADMN	JF-9 SHEET 2/3, PLEASE NOTE IN PLAN WHERE THE [illegible]
9	112293	BLDGADMN	EXTENDS ABOVE THE TRUSSES, SECTION [illegible]
10	112293	BLDGADMN	JF-10 SECTION 3/3, PROVIDE SPACING OF [illegible]
11	112293	BLDGADMN	WOOD LEDGER.
12	120393	BLDGADMN	[illegible] ITEMS ABOVE WERE REVIEWED AND APPROVED BY [illegible]

Enter Comment:

Add/Change/Delete: [illegible] (A/C/D) line. __ Note: Users may only update [illegible]

8

(COMM

** ACTIVITY COMMENTS **

Activity No BMS40245 PLANS REVISION #B030078
Applicant: ALLSTATE BUILDERS INC
Location: 6985 COLLINS AV

No	Date	User	Comment Text
1	120393	BLDGADMN	THE WRITER. STRUCTURAL APPROVED

A Enter Comment:
Add/Change/Delete: A (A/C/D) line: __ Note: Users may only update own comments

C COMM

** ACTIVITY COMMENTS

Activity No BMS40245 PLANS REVISION #1 [illegible]
Applicant: ALLSTATE BUILDERS INC
Location: 6985 COLLINS AV

N	No	Date	User		Comment Text
-	1	112293	BLDGADMN	✓	
-	2	112293	BLDGADMN	JF-1	DETAIL 5/3,PROVIDE DETAIL OF NEW PURLIN
-	3	112293	BLDGADMN		TO STEEL JOIST GIRDER.
-	4	112293	BLDGADMN	JF-2	DETAIL 5/3, PROVIDE CONNECTION DETAIL
-	5	112293	BLDGADMN	JF-3	MUST VERIFY THAT EXISTING 4TH FLOOR
-	6	112293	BLDGADMN		NEW LIVE LOADS. IF NECESSARY, FIELD
-	7	112293	BLDGADMN		SYSTEM TO INSURE THAT IT SUPPORTS THE
-	8	112293	BLDGADMN	JF-4	SHEET 1/3, MUST IDENTIFY REINFORCED
-	9	112293	BLDGADMN		REQUIRING 1#5 EACH SIDE OF ALL OPENINGS
-	10	112293	BLDGADMN	JF-5	PROVIDE DEPTH AND LOADING FOR STEEL
-	11	112293	BLDGADMN		IN ROOF PLAN. PROVIDE LOADING FOR
-	12	112293	BLDGADMN		UPLIFT LOAD CASES.
A		Enter Comment:		JF-6	PROVIDE CALCULATIONS (SIGNED AND SEALED

Add/Change/Delete: A (A/C/D) line: __ Note Users may only update own

COMM

** ACTIVITY COMMENTS **

Activity No: BMS40245 PLANS REVISION #BV2006V2
Applicant: ALLSTATE BUILDERS INC
Location: 6985 COLLINS AV

No	Date	User		Comment Text
1	112293	BLDGADMN		FOR THE IMPACT THE NEW FLOOR WILL HAVE ON
2	112293	BLDGADMN		FOUNDATION, FOR BOTH GRAVITY LOADS AND WIND
3	112293	BLDGADMN		LOADING CASES.
4	112293	BLDGADMN	JF-7	PROVIDE CALCULATIONS (SIGNED AND SEALED) FOR THE
5	112293	BLDGADMN		CONNECTION FOR UPLIFT, FOR THE TYPICAL WOOD TRUSS
6	112293	BLDGADMN	JF-8	PROVIDE CALCULATIONS FOR THE STEEL JOIST CONNECT
7	112293	BLDGADMN		FOR UPLIFT. ALSO, PROVIDE A DETAIL FOR THIS CONNECT
8	112293	BLDGADMN	JF-9	SHEET 2/3, PLEASE NOTE IN PLAN WHERE THE PARAPET
9	112293	BLDGADMN		EXTENDS ABOVE THE TRUSSES, SECTION 2/3
10	112293	BLDGADMN	JF-10	SECTION 3/3, PROVIDE SPACING OF EXPANSION BOLT
11	112293	BLDGADMN		WOOD LEDGER.

A Enter Comment:
Add/Change/Delete: A (A/C/D) line: __ Note: Users may only update

COMM

** ACTIVITY COMMENTS

Activity No **BMS40245** PLANS REVISION #B9300079
Applicant: **ALLSTATE** BUILDERS INC
Location: **6985 COLLINS AV**

No	Date	User	Comment Text
1	120393	BLDGADMN	THE WRITER, STRUCTURAL APPROVES
2	120693	BLDGADMN	NWR1-REQUIRES EMERGENCY LIGHTING
3	120693	BLDGADMN	-REQUIRES COMPLETE DADE COUNTY [illegible]
4	120693	BLDGADMN	LETTERS AND ENGINEERS CERTIFICATION [illegible]
5	120693	BLDGADMN	WINDOWS AND SLIDING GLASS DOORS
6	120693	BLDGADMN	-DADE COUNTY ROADWAY REPAIR IMPACT FEE [illegible]
7	120693	BLDGADMN	-WHICH UNITS WILL BE HANDICAP RATED AND WHERE [illegible]
8	120693	BLDGADMN	ADDITIONAL HANDICAP PARKING BE??? [illegible]

Enter Comment:
Add/Change/Delete: **A** (A/C/D) line: __ Note: Users may only update own comments

8

DAVIS ENGINEERS, P.A.
780 TAMIAMI CANAL ROAD • MIAMI, FLORIDA 33144
305-266-2566

Coastal Beach Hotel

1. Loads 4± story, use h: 40'
Coastal Bldg Zone

$q = .00256 (140)^2 (40/30)^{2/7} = 54.5$ psf

Roof 30 psf L
17 D: see p2

NOTE WE ARE TOLD BLDG IS DESIGNED FOR 4TH FLOOR

CONTENTS

1.	LOADS	1
2	ROOF	2
3	STAIRS	6
4	WALLS	7
5	PANNER	8

11-16-90

DAVIS ENGINEERS, P.A.
780 TAMIAMI CANAL ROAD • MIAMI, FLORIDA 33144
305-266-2566

2. ROOF L = 38' d ≥ 28" req 30"

a. Load ↓ 30 L 20 D ↑ -54.5 +20. D

use 25 psf net uplift

Ct. DL: twsfcz: $1.5(7.23)\frac{(3)}{144}\left(\frac{60.4}{2}\right)(1/2) = 3.85$ psf req'd

PWD 5(.4) = 2

Roof DL avg 15" 1

6" FG ins. 1

60 (5/12) 5(.55) = 2.75

6.75

Built up Rfg w/T&G 5.5

12.25 psf 15.8

use 17 psf DL

net uplift 38 psf

b. Reactions:

1. grav 30 + 15 = 45 psf $45\left(\frac{38}{2}\right)$ = 855 plf

per truss: 855(2) = 1710#

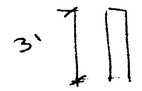
2. Wind (54 - 15) = 40 ± $40\left(\frac{38}{2}\right)$ = 760 plf

per truss: 760(2) = 1520#

11-16-94

DAVIS ENGINEERS, P.A.
780 TAMIAMI CANAL ROAD • MIAMI, FLORIDA 33144
305-266-2566

c. Parapet



$C = 1.4$

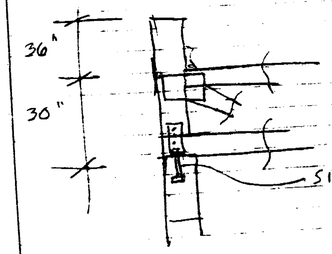
$p = 1.4\ (54.5)\ (2) = 153$ plf

$M = 153\ \frac{3^2}{2} = 687$ ft-#

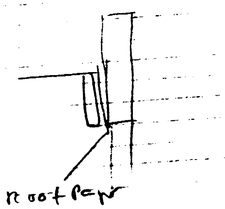
w/ 2x6, $S_x = 7.56$ $f_b = 1090$

use 2x8

d. End detail



e. Edge detail



11-6-93

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f. girder

$w_g = (30+17)\left(\frac{38}{2}+1\right) = 940\text{plf}$

$w_u = (-38)\left(\quad\right) = -.76\text{ k/l}$

$R = \begin{bmatrix} .94 \\ -.76 \end{bmatrix}\left(\frac{38}{2}\right) = \begin{bmatrix} +17.9 \\ -14.4 \end{bmatrix}$

$M = .94\left(\frac{38^2}{8}\right) = 170^{k-l}$

use steel joist girder =

dc. wood : $d \approx 30 - 9.25 = 20.75$

$F_{dn} = \frac{170(12)}{20.75} = 98^k$ no way-

30G 19N 1.7K

28G $\frac{6}{7}$N

5.43'

lg. panel load = 5.43 (.855) = 4.64 use 5K

$w_g = 26^{\#}/l$

$w_l = 26(38) = 1^k$

OR WOOD GIRDER

use ~~28G 7K~~ 5K

11-16-99

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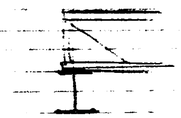
g. B-1 L = 8'

$M \simeq \frac{17.9\,(8)}{4} = 36^{K-1}$



use W8x21 50ksi

$I = 75.3$

$\Delta = \frac{Pl^3}{3EI} = \frac{18(8)^3(1728)}{3(29E3)(75.3)} = .15''$ o.k.

OMS 11-10-93

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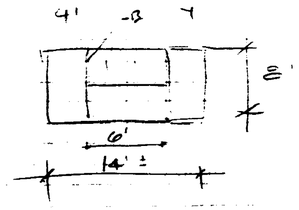
6/9

3. STAIRS



$\frac{8(12)}{7} = 13.7 \rightarrow 14$ risers

$L = 14\left(\frac{11}{12}\right) = 12.10^{-}$ or.

Load on B.

$L = 8'$

$w = 100\left(\frac{4+6}{2}\right) = 500$ plf L

DL 30 psf D $\rightarrow 30(5) = 150$

$w = 650$ plf

$M = .65\left(\frac{8^2}{8}\right) - 5.2^{k-1} = 62.4$ $\quad F_b = 18$

$S_x > 3.5$

$\Delta = \frac{2.06}{I} \leq \frac{L}{150} = \frac{8(12)}{150}$ $\quad I \geq 32.3$

$I = 36.1$

use C8 x 13.75 $\quad S = 9.03$

$R = .65\left(\frac{8}{2}\right) = 2.6 \rightarrow 3^{k}$

11-10-99

7a/3

Masonry
Combined Axial & Horizontal loading

1. Geometry & Loads

h = 8 ' P = 1760 w = 60 psf

t = 8 " f_{pm} = 3000 psi

2. Masonry Coefficients

A = 63.9 in^2

j = .925 k = .225 S = 18.13 d = 3.81 See "D" tables

$bd2 = \frac{2 \cdot S}{j \cdot k}$ bd2 = 174.222

$b = \frac{bd2}{d^2}$ b = 12.002

3. Stresses & Allowable P

$f_a = \frac{P}{A}$ f_a = 28 psi $M = \frac{w \cdot h^2 \cdot 12}{8}$ M = 5760 #-"

$F_a = .225 \cdot f_{pm} \cdot \left[1 - \left(\frac{h \cdot 12}{40 \cdot t}\right)^3\right]$ F_a = 657 psi

$F_m = if(.33 \cdot f_{pm} > 900, 900, .33 \cdot f_{pm})$ F_m = 900 psi

$Z = .5 \cdot j \cdot k \cdot b \cdot d^2$ Z = 18.13

$M_r = F_m \cdot Z$ M_r = 16317 #-"

$P_a = A \cdot F_a \cdot \left(1 - \frac{w \cdot h^2 \cdot 12}{8 \cdot M_r}\right)$ P_a = 27153

11-16-99

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4. WALLS

h = 8'

p = 1.1 (54.5) = 60 PSF

$M = \frac{8^2}{2}(60)(12) = 5760''\text{-}\#$

w = 855 ↓ , 760 ↑

TD = 100 plf
600 plf ↑
÷60 → 11' of wall to balance uplift.

11-10-87

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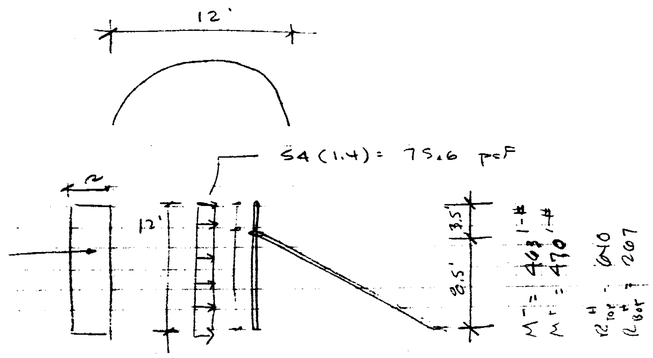
8/3

5. BANNER

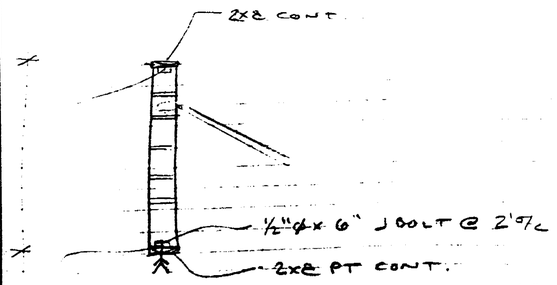


wood - 2x8 $S_x = \frac{1.5(7.25)^2}{6} = 13.14$ in³

$\frac{470(12)}{13.14}$ = 429 psi (per ft)

2'-0" c = 858 psi

use 2x8 @ 2'-0" c



11-10-97

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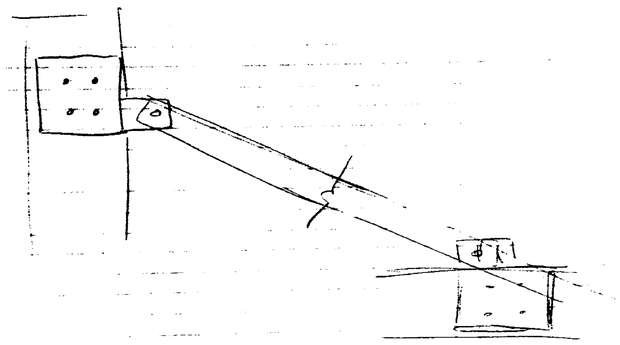
use $\alpha = 45°$

Force on brace = $\frac{640 \, p_{ac}}{2 \sin\alpha} = \frac{640(2)}{.707} = 1810^{\#}$

w/ 5/8" ϕ bolts - P = 11,340
x 1½ x 1.25 = 7875
706, 332
N = 457# x 4/3 = 609# needs 2 bolts - use 4



ck K .my f_c = 15 ksi

$\Lambda > \frac{1.2}{15} = .12$ L = 8.5√2 (12) = 144"

$f_c = \frac{1.2}{1.09} = 1.065$ ksi

$r_T = .596$

$C_c = 126.1$

$f_a = \frac{12\pi^2 E}{23\left(\frac{kl}{r}\right)^2} = 2.56$ ok

$\frac{kl}{r} < 200$

$f_a = 3.7$, $A \geq .49^{in^2}$

$r_T \geq \frac{144}{200} = .72$

L3 x 3 x 3/16

A = 1.09

11.10 ok

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CRYSTAL DCH

12/1/97 1/6

ADDITIONAL LOAD ON FOUNDATIONS

EXISTING LEVEL

	LOADS - PSF L	D
ROOF	30	20
3	40	20
2	40	20
1	40	60
	150	120

LL reduction 20%

→ LL = 120psf w_{TOTAL} = 240psf

PROPOSED

LEVEL	L	D
ROOF	30	20
4	40	20
3	40	20
2	40	20
1	40	60
	190	140

LL rd = 30%

∴ LL = 133psf w_{TOTAL} = 273 psf

increase is $\frac{273}{240}$ = 14%

this is easily accommodated by: SF on piling considering ultimate - service load design methods

OK

12/2/97

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CRYSTAL DCH 12/1/93 2/6

EXISTING ROOF AS FLOOR

given: 2x10 @ 16" o/c, 16' span

L_c = 16 - 8/12 = 15.33'

Loads: L: 40 psf

D:	2x10 @ 16	6 psf
	5/8" PWD	2
	1/2" CLG	2.2
	MS	1
		11.2
		use 15 psf

$M = \frac{65}{8}(15.33^2)(12) = 22913$ ft-#

$S_x^{2x10} = 21.4^{in^3}$ $f_b = 1071$ psi ok

E = $\Delta = \frac{57.7}{I} = .58" = \ell/315$ ok

$I = \frac{15(9.25)^3}{12} = 98.9$

NOT

12/2/93

8

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WOOD TRUSS SUPPORT CONDITIONS @ GIRDER

a. Gravity

$w_L = 30$ w_D use is $w_T = 45$ psf

$R = \frac{38}{2}(45) = 855^{\#}$

b) . Wind

$q = 54.5$ psf

worst case, $p = -1.5(54.5) = -81.7$ psf

$R_w = (-81.7+15)\left(\frac{38}{2}\right) = -1267^{\#}$

for uplift - use

STL GIRDER — SIMPSON LLT20B

GRAVITY, TC BRG IS ADEQUATE

WOOD GIRDER : UPLIFT LUS210 890#
2-A35 : 454(2) = 908
1290
OR

GRAVITY : LUS210 1270# OK

12/2/93

SUMMARY

STEEL = TC BEARING TRUSS + LLT20B

WOOD : LUS210 + 2-A35

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12/1/93 4/6

WOOD TRUSS UPLIFT @ WALL

UPLIFT = 1270# max SIMPSON HD2A

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12/1/93 S/G

GIRDER UPLIFT CONDITION

R_U = -14.4K (from above) (p 4/9)

WOOD GIRDER - ASSUME 3 MEMBER

$l = 4.5$

$P = 2630 \times \frac{4}{3} \times 1.25 = 4383$ (4-WIRE / STL SIDE PL)

$N = \frac{14.4}{4.4} = 3.29$ OK 3

weld on PL $\frac{14.4}{2(6)(2)} = .12$ kli ok

STL GIRDER

4 bolts → $F = \frac{14.4}{3} = 4.8^K$/bolt.

ok

12/2/93 neg-7

8

Masonry

Combined Axial & Horizontal loading

12/1/93

1..Geometry & Loads

h = 8 ' t = 8 "

P = 1760

w = 60 psf $M = \frac{w \cdot h^2 \cdot 12}{8}$ M = 5760 #-"

f_{pm} = 1500 psi

2. Masonry Coefficients

#5 @ 48"

A = 57 in^2 table 1b, p16

j = .924 k = .225 S = 18.11 d = 3.81 See "D" tables

$bd2 = \frac{2 \cdot S}{j \cdot k}$ bd2 = 174.218

$b = \frac{bd2}{d^2}$ b = 12.002

3. Stresses & Allowable P

$f_a = \frac{P}{A}$ f_a = 31 psi

$F_a = .225 \cdot f_{pm} \cdot \left[1 - \left(\frac{h \cdot 12}{40 \cdot t}\right)^3\right]$ F_a = 328 psi

$F_m = if(.33 \cdot f_{pm} > 900, 900, .33 \cdot f_{pm})$ F_m = 495 psi

$Z = .5 \cdot j \cdot k \cdot b \cdot d^2$ Z = 18.11

$M_r = F_m \cdot Z$ M_r = 8964 #-"

$P_a = A \cdot F_a \cdot \left(1 - \frac{w \cdot h^2 \cdot 12}{8 \cdot M_r}\right)$ P_a = 6691

12/2/93

8

Paul Gioia, Building Official

The following revisions will be made to the attached plans in order to meet all fire codes:

An elevator recall button installed before CO is issued.

Stairwell doors to have 'B' label, 1 hour rating.

An engineered sprinkler drawing will be issued, signed and sealed. Building will be 100% sprinkled. All exit enclosures will be 2 hour.

Fire alarms will meet audible requirements.

A detail on smoke dector will be added to drawings.

Trash chute detail will indicate vestibule and sprinklers.

Fire extinguishers will be indicated on drawings.

8

CRYSTAL BEACH CLUB
FOURTH FLOOR ADDITION

FIRST LEISURE CORP.
2758 POINCIANA BLVD
KISSIMMEE FL

STANLEY FORREST
ARCHITECT

FIRE STOPPING REQUIREMENT

Penetrations through rated walls, floors, ceilings and partitions shall be sealed with approved fire stop material to maintain the rating of the assembly. Refer to Florida Building Code for Fire Stop Requirements.

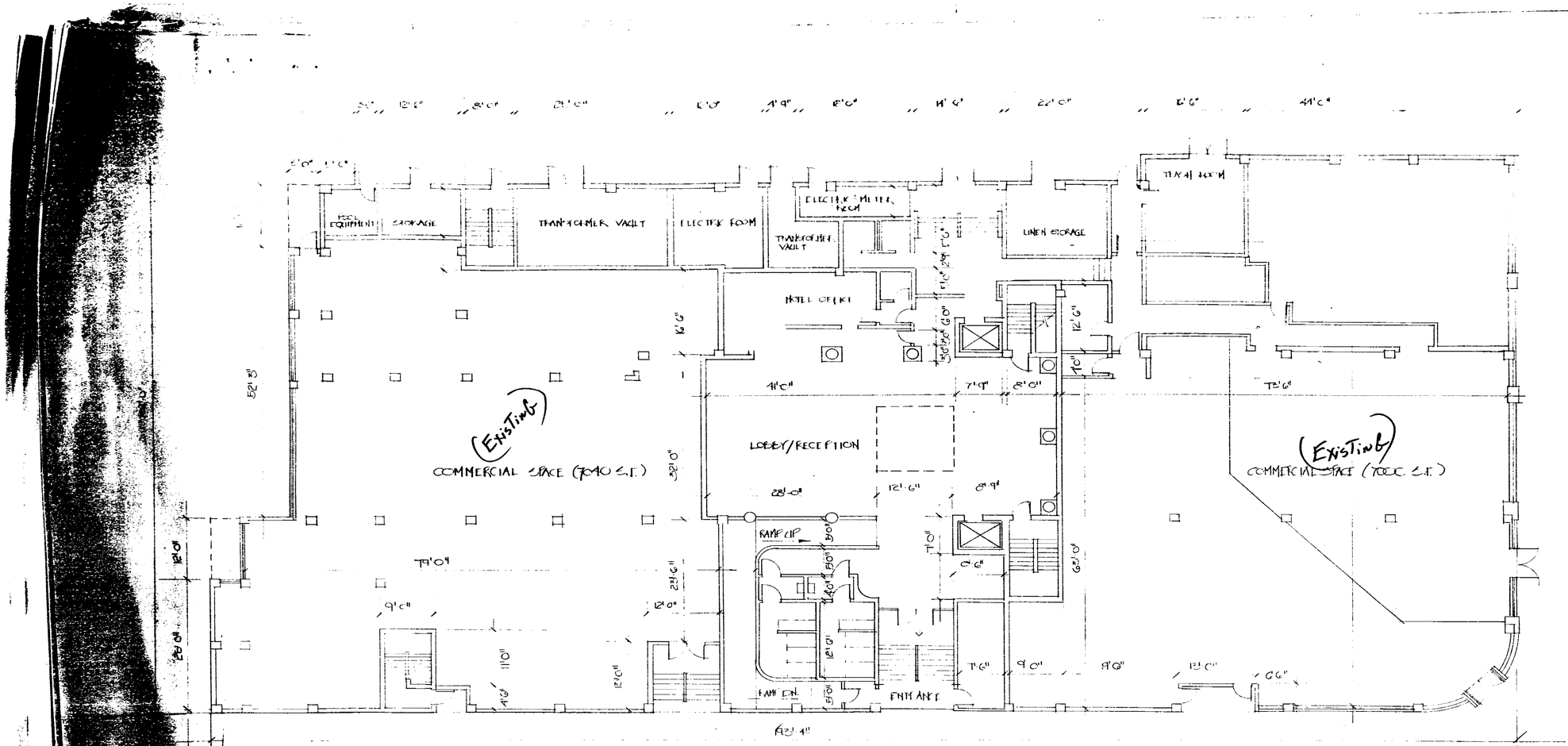
NOTICE

DETAILED PLANS FOR REQUIRED FIRE ALARM AND SPRINKLER SYSTEMS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT FOR APPROVAL PRIOR TO INSTALLATION.

APPROVED PLANS MUST BE ON THE JOB SITE AT ALL TIMES

DESIGN DRAWINGS ARE PREPARED FOR COMPLIANCE WITH THE FLORIDA BUILDING CODE AND ARE NOT TO BE USED FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY A REGISTERED ARCHITECT OR ENGINEER IN THE STATE OF FLORIDA

CONCRETE CURB
SERVICE ALLEY
PROPERTY LINE
SWIMMING POOL
ROOF ELEVATION 1 STORY
ROOF ELEVATION 4 STORY
20'-0"
ATLANTIC OCEAN
COLLINS AVENUE
71ST STREET
EXISTING BUILDING
EXISTING 1 STORY BUILDING
EXISTING 4 STORY



CRYSTAL BEACH FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

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CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

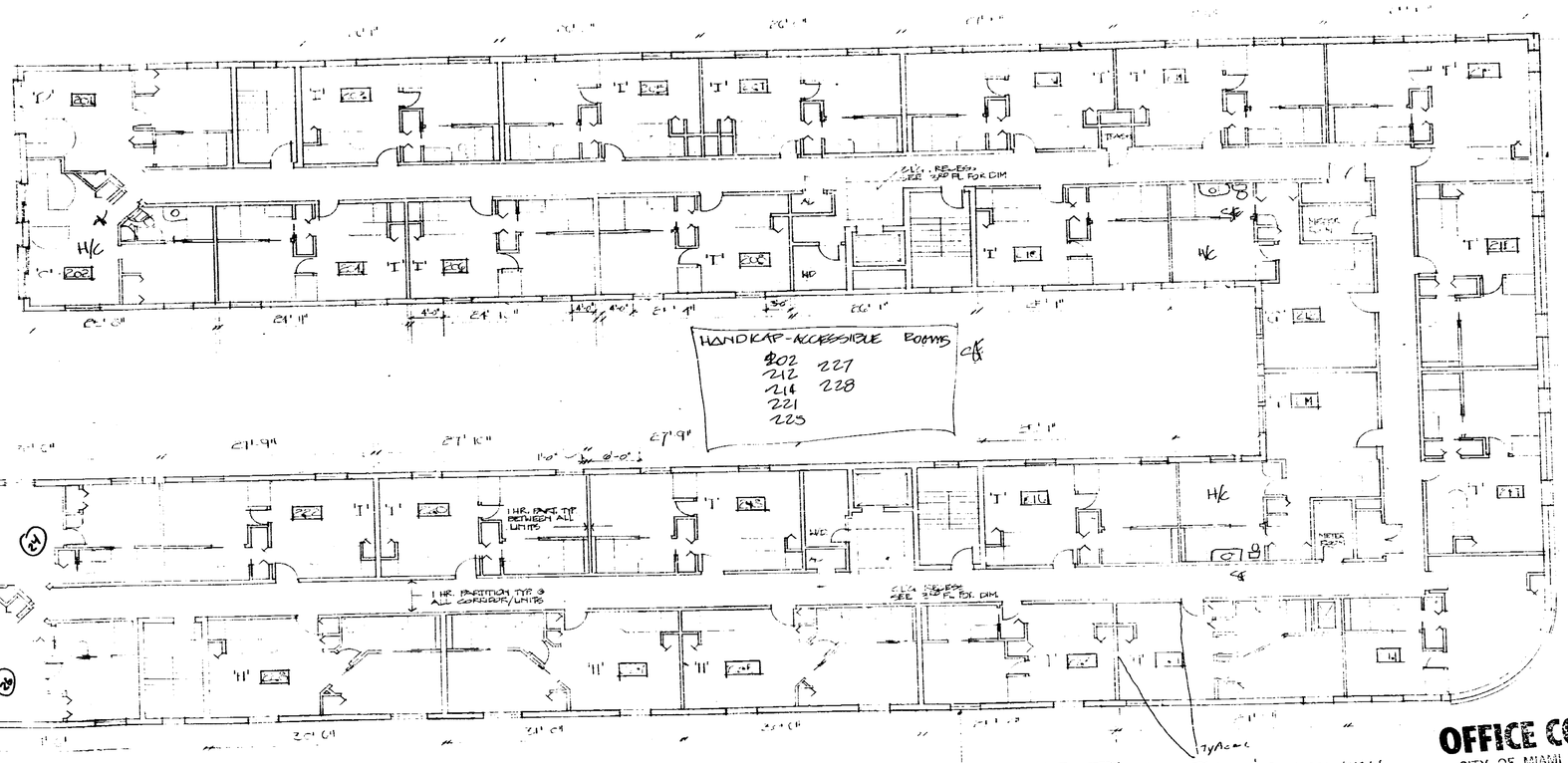
CITY OF MIAMI BEACH
RECEIVED
DEC 04 1992
BUILDING DEPARTMENT

CRYSTAL BEACH CLUB
6985 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2750 PONCIANA BLVD. KISSIMMEE, 407-396-4808

Date 11-11-92
Scale
Dr'wn
Job

A-2



FLOOR PLAN

CONTRACTOR TO VERIFY ALL WINDOW LOCATIONS W/ARCHITECT (SEE ELEVATIONS FOR VERTICAL ALIGNMENT)

TYPICAL TENANT & CORRIDOR WALLS TO GO FROM FLOOR TO UNDERSIDE OF ROOF DECK IF WOOD TRUSS CONSTRUCTION IS USED FOR ROOF

All other Penetrations As per Arch E Bldg

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CRYSTAL BEACH CLUB
6999 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORMBY ARCHITECT
FIRST LEISURE CORP.
2750 POINCIANA BLVD. KISSIMMEE, FL 32741
407-396-4000

11-11-92

8

UNIT TYPE 'H'/HANDICAP

UNIT TYPE 'E'

TYPICAL UNIT PLAN

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FIRE PREVENTION:
ENGINEERING:

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CRYSTAL BEACH CLUB
6988 COLLINS AVE. MIAMI BEACH, FLORIDA

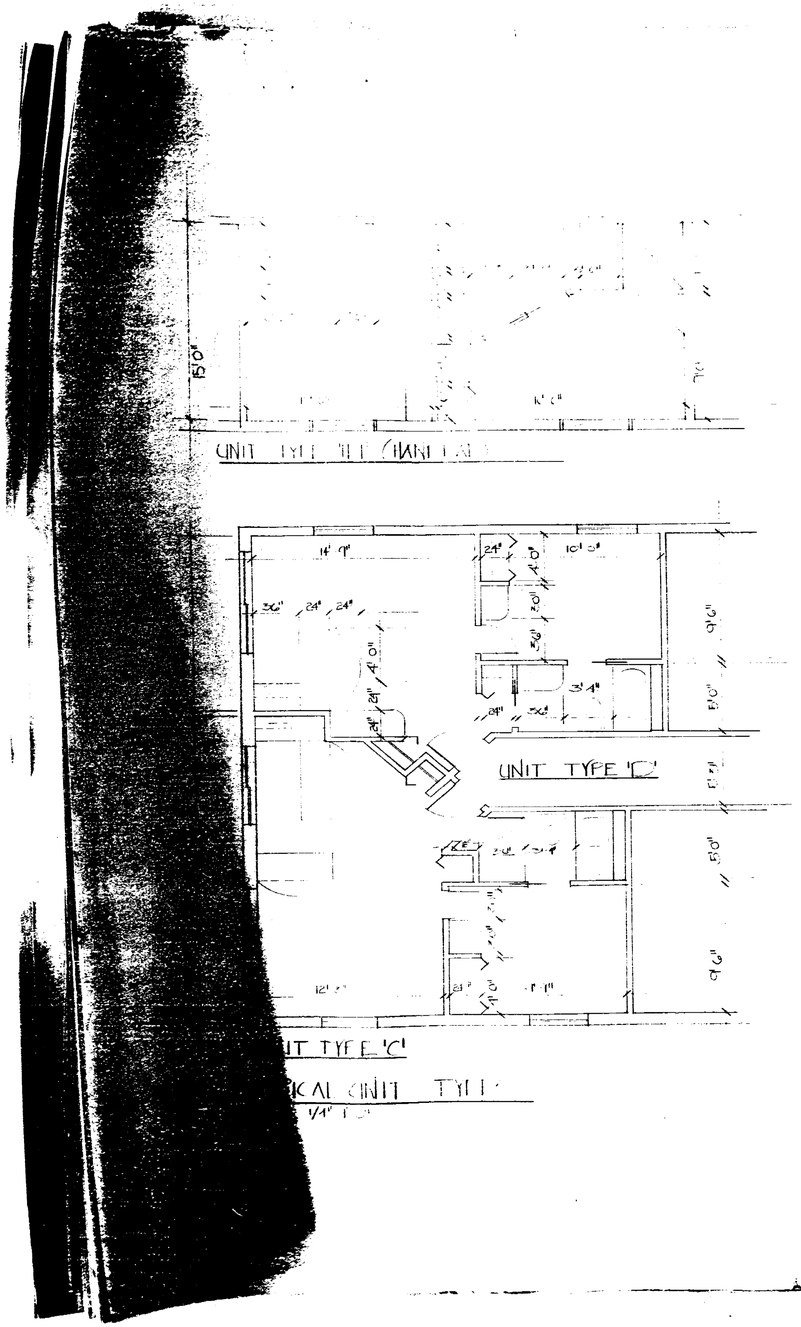
FIRST LEISURE CORP.
2750 PONCIANA BLVD. KISSIMMEE, FL 32741
407-396-6000

STANLEY FORREST ARCHITECT

11-11-92

A-4

18



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APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING:
ZONING: 12/2/92
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

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DEC 04 1992
BUILDING DEPARTMENT

CRYSTAL BEACH CLUB
6085 COLLINS AVE. MIAMI BEACH, FLORIDA.

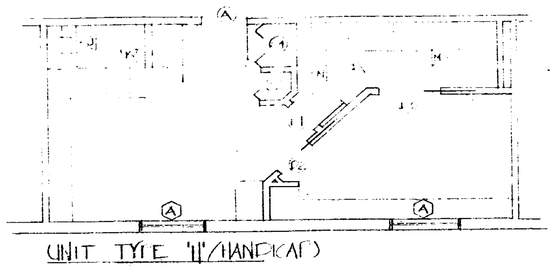
FIRST LEISURE CORP.
2750 PONCIANA BLVD. KISSIMMEE, FL 32741
407-396-1000

STANLEY FORREST ARCHITECT

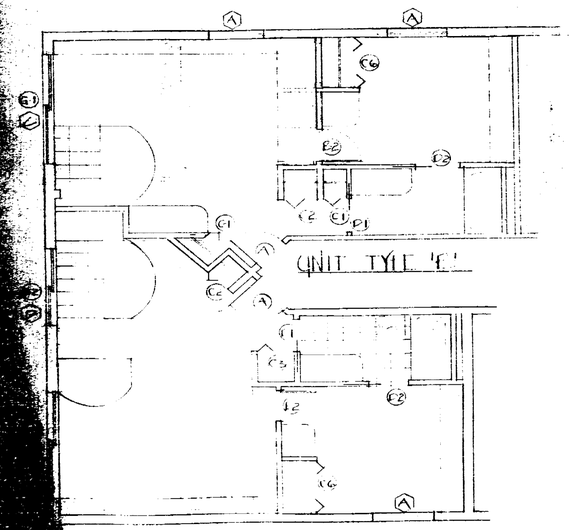
11-11-92

A-5

8



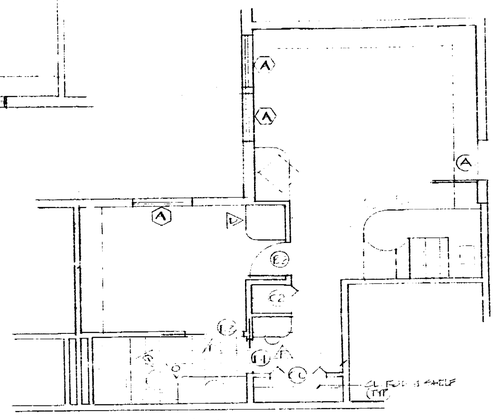
UNIT TYPE 'H' (HANDICAP)



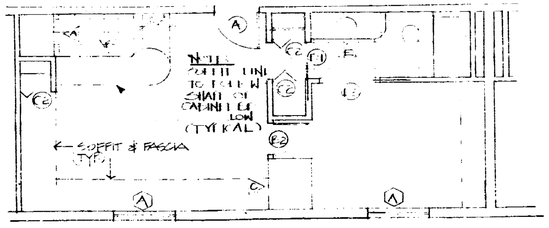
UNIT TYPE 'E'

UNIT TYPE 'A'

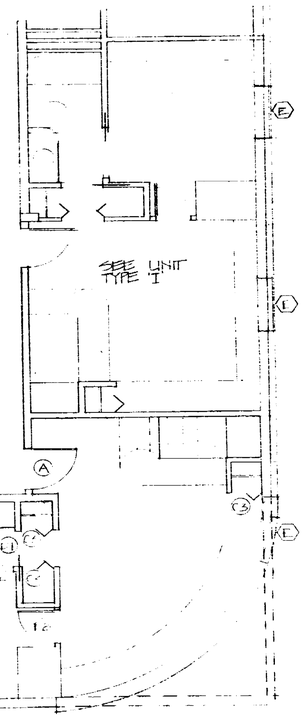
TYPICAL UNIT PLAN



UNIT TYPE 'G'



UNIT TYPE 'I'



UNIT TYPE 'F'

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BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

CITY OF MIAMI BEACH
RECEIVED
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BUILDING DEPARTMENT

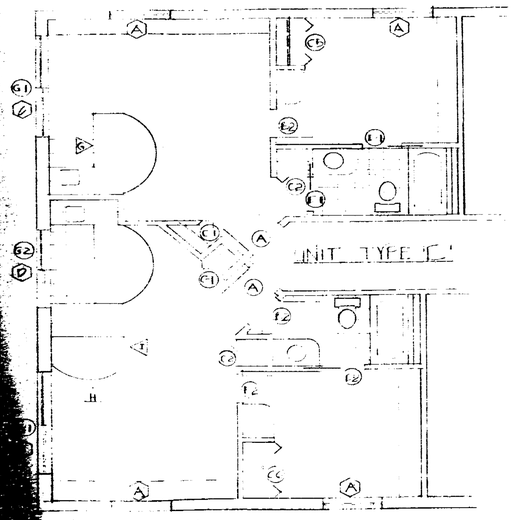
CRYSTAL BEACH CLUB
6995 COLLINS AVE. MIAMI BEACH, FLORIDA
STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2700 PONCIANA BLVD. KISSIMMEE, FL 32741
407-396-4000
11-11-92
A6
39

8

30

WINDOW SCHEDULE:

TYPE	DESCRIPTION	HEIGHT	WIDTH	MATERIAL	GLASS	REMARKS
(A)	TOP HINGE	4'-0"	4'-0"	ALUMINUM	BRONZE TINT	
(B)	TOP HINGE	1'-0"	2'-0"	"	" "	
(C)	FIXED GLASS	2'-0"	3'-0"	"	" "	
(D)	FIXED GLASS	1'-0"	6'-0"	"	" "	
(F)	TOP HINGE	4'-0"	4'-0"	"	" "	FACE MOUNTED GLASS



UNIT TYPE 'C'

TYPICAL UNIT PLAN

DOOR SCHEDULE:

TYPE	DESCRIPTION	WIDTH	HEIGHT	THICKNESS	LABEL	FRAME	THRESHOLD	REMARKS
(A)	SWING DOOR	3'-0"	6'-8"	1 3/4"		HOLLOW METAL		
(B)	HOLLOW METAL	2'-0"	6'-8"	1 3/8"		WOOD		
(B1)	" "	2'-8"	6'-8"	"		WOOD		
(C)	STAIN GRADE ELEV.	1'-0"	6'-8"	1 1/4"		"		
(C1)	" "	2'-0"	"	"		"		
(C2)	" "	2'-4"	"	"		"		
(C3)	" "	2'-8"	"	"		"		
(C4)	" "	3'-0"	"	"		"		
(C5)	" "	4'-0"	"	"		"		
(C6)	SOLID CORE BIFOLD	2'-8"	"	1 3/8"		"		
(C7)	" "	3'-0"	"	"		"		
(C8)	" "	4'-0"	"	"		"		
(E)	HOLLOW METAL	3'-0"	"	1 3/4"	RET	HOLLOW METAL		W/ TANK DEVICE & 8"x8" WIRE MESH WINDOW
(F)	HOLLOW METAL	"	"	"		"		
(G1)	SLIDING GLASS	8'-0"	"			ALUMINUM		
(G2)	SLIDING GLASS	6'-0"	"			"		

A
B
C
D
E
F
G1 8'-0"x6'-8"
G2 6'-0"x6'-8"

FLOOR PLAN

(G) SLIDING GLASS

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CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
12/12/92

CITY OF MIAMI BEACH
RECEIVED
DEC 04 1992
BUILDING DEPARTMENT

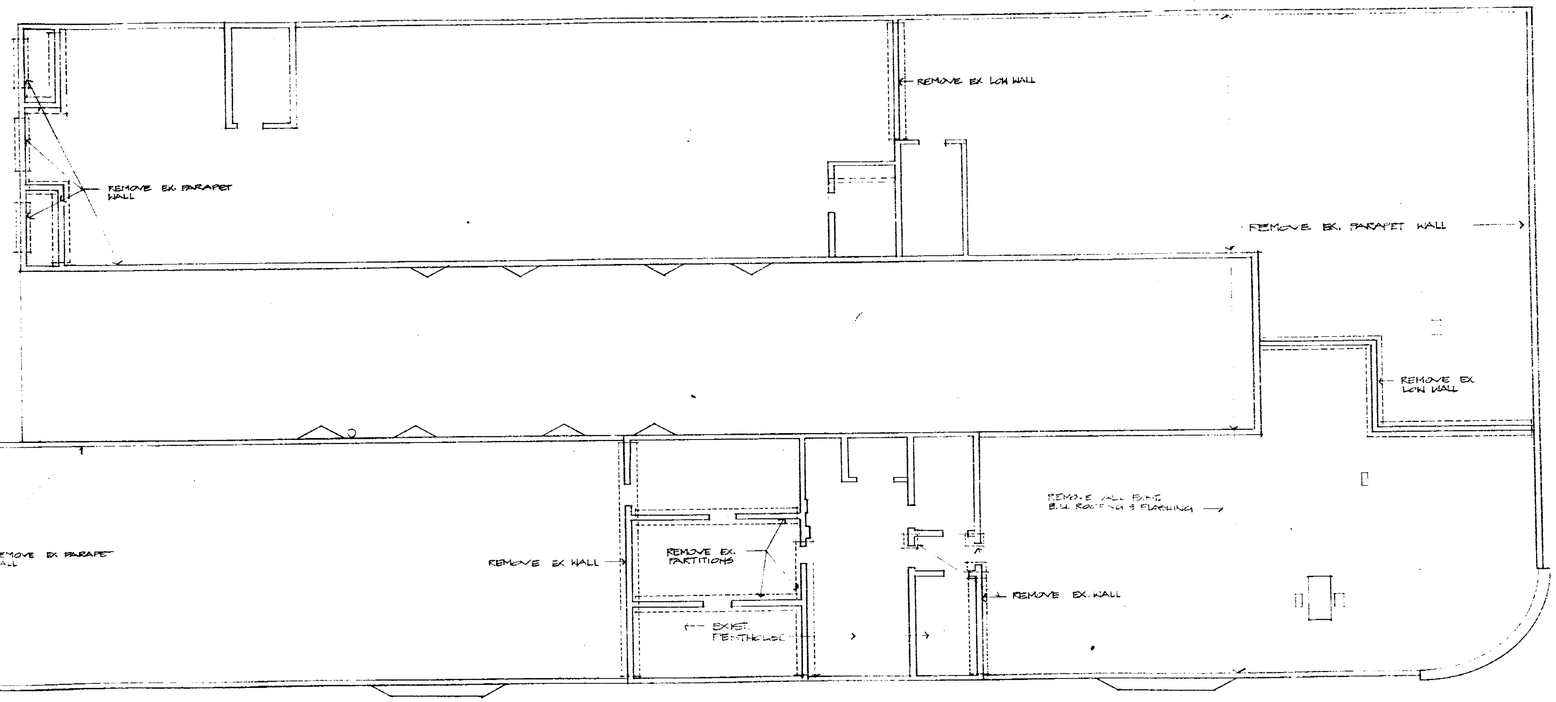
CRYSTAL BEACH CLUB
6985 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2700 POMPANO BLVD. POMPANO, FL 33741
407-783-1500

11-11-92

A-7

8



EXISTING 1ST FLOOR PLAN

1/8" = 1'-0"

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PLUMBING:
ELECTRICAL:
MECHANICAL:
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CRYSTAL BEACH CLUB
8985 COLLINS AVE. MIAMI BEACH, FLORIDA.

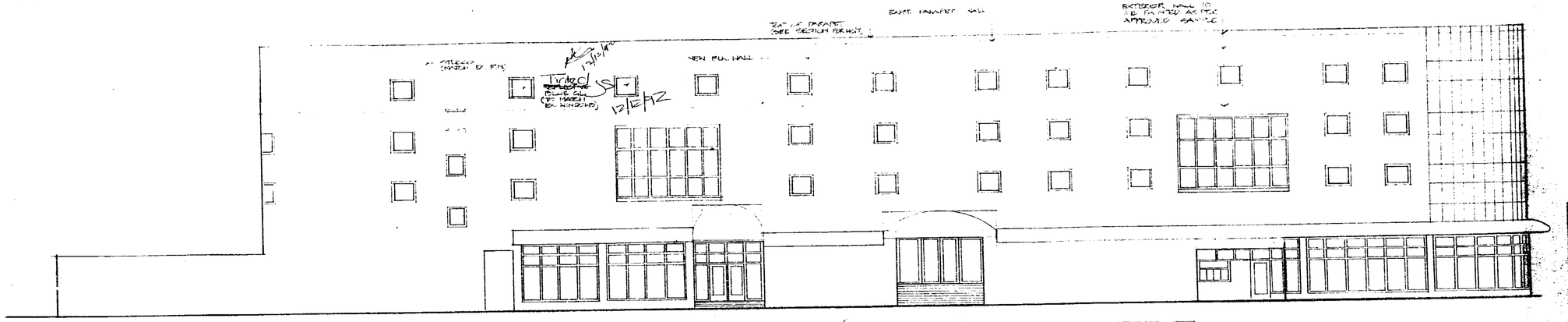
FIRST LEISURE CORP.
2750 POINCIANA BLVD. NORMANDEL, FL. 32141
407-299-2005

STANLEY FORREST ARCHITECT

Date 11-11-92

A8

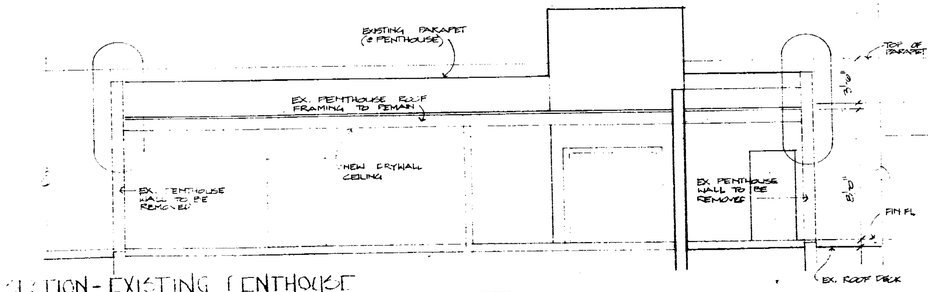
8



NORTH ELEVATION

1/8" = 1'-0"

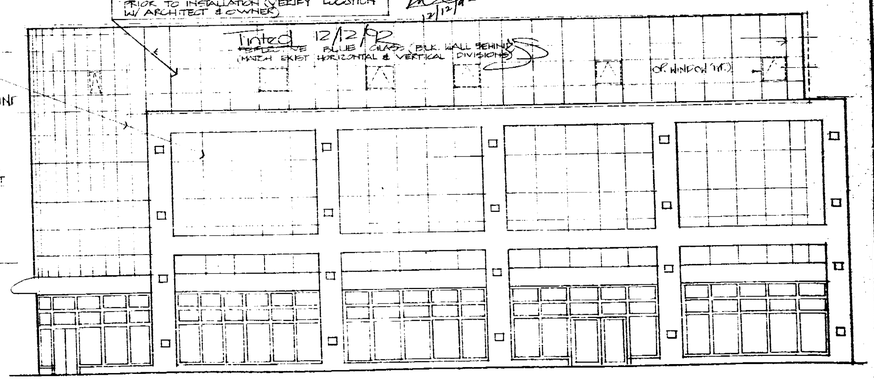
NOTE:
GENERAL CONTRACTOR TO INCLUDE COST TO REPAIR EXISTING GLASS & CURTAIN WALL SYSTEM
VERIFY W/ ARCHITECT ALL AREAS TO BE REMAINED OR REPLACED



SECTION - EXISTING PENTHOUSE

1/4" = 1'-0"

NOTE:
GENERAL CONTRACTOR TO COORDINATE REQUIRED DRILLED HOLES IN GLASS PRIOR TO INSTALLATION & VERIFY LOCATION W/ ARCHITECT & OWNER)



WEST ELEVATION

1/8" = 1'-0"

NOTES:
- ALL WINDOWS ARE REFLECTIVE BLUE GL. UNLESS NOTED. GC TO SUBMIT SAMPLE TO ARCHITECT/OWNER APPROVAL.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO CITY OF MIAMI BEACH BLDG DEPT & ARCHITECT FOR APPROVAL.
- ALL CURTAINWALL, GLASS, DOORS & WINDOWS DESIGN & INSTALLATION SHALL BE IN ACCORDANCE W/ SOUTH FLORIDA BLDG CODE FOR WIND REQMTS, ETC.

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CRYSTAL BEACH CLUB
6988 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
PH.: LEISURE CORP.
2750 PONCIANA BLVD. KISSIMMEE, FL. 32743

DATE 11-11-92

A9

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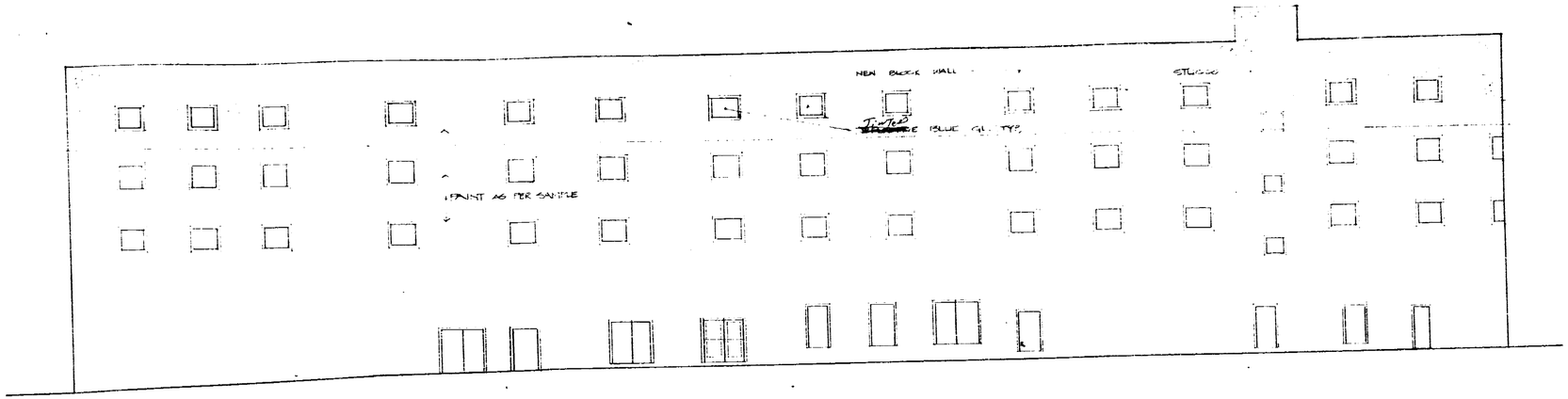
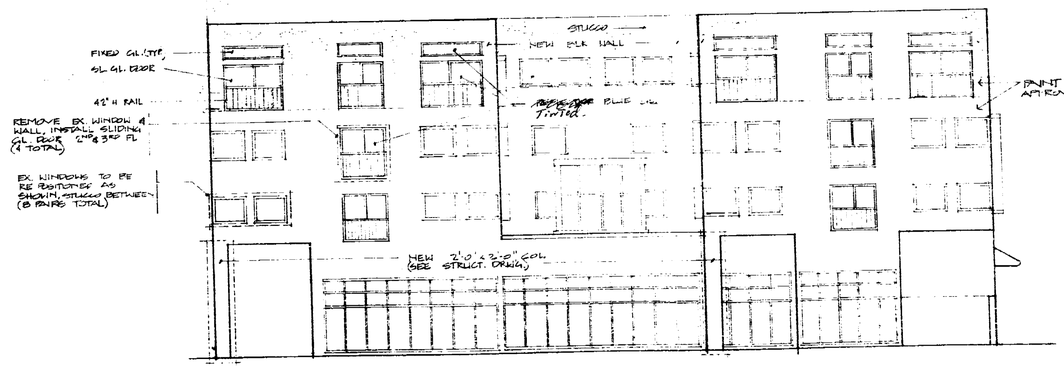


SOUTH ELEVATION
1/8" 1'-0"



EAST ELEVATION
1/8" 1'-0"

CRYSTAL BEACH CLUB
6985 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
178 POMPANIA BLDG. HOMESTEAD, FL 33041
407-242-4000

11-11-92

A-10

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MECHANICAL:
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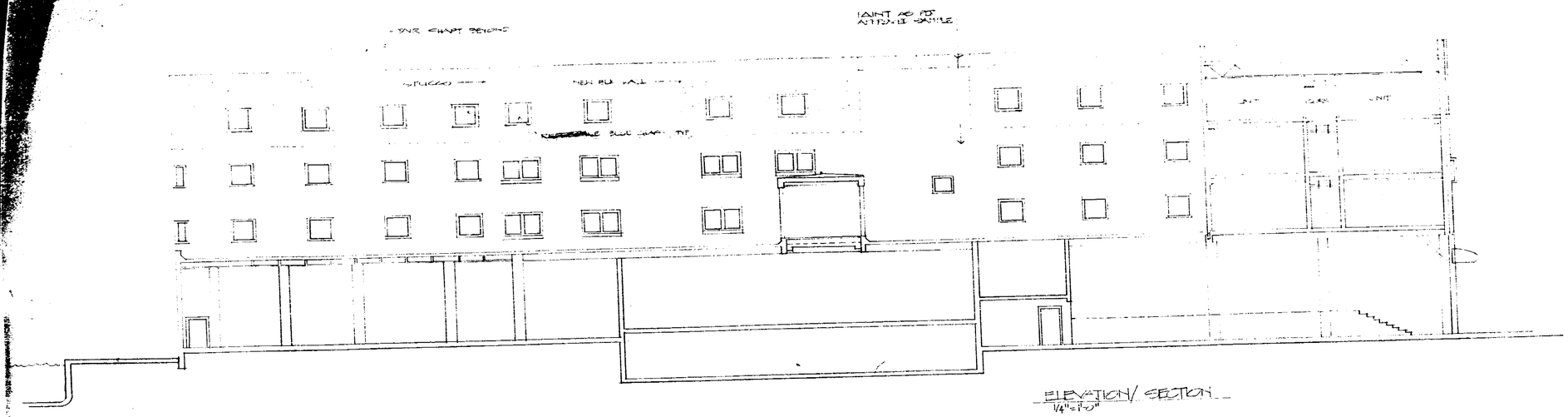
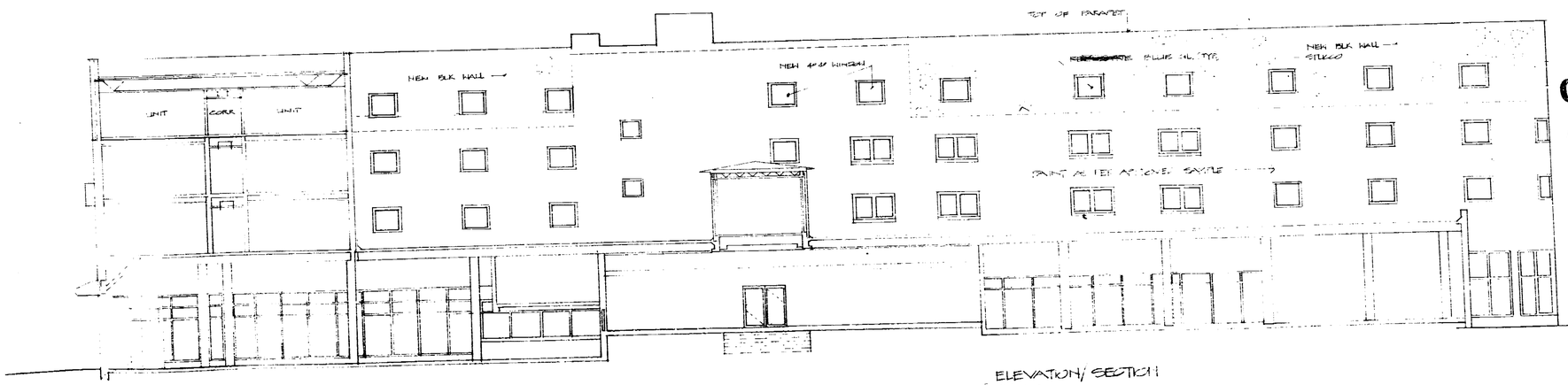


ELEVATION/ SECTION
1/4"=1'-0"



ELEVATION/ SECTION
1/4"=1'-0"

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CITY OF MIAMI BEACH
RECEIVED
DEC 04 1992
BUILDING DEPARTMENT

CRYSTAL BEACH CLUB
6885 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2750 POINCIANA BLDG. KISSIMMEE, FL 32741
407-396-4900

Date 11-11-92

A-11

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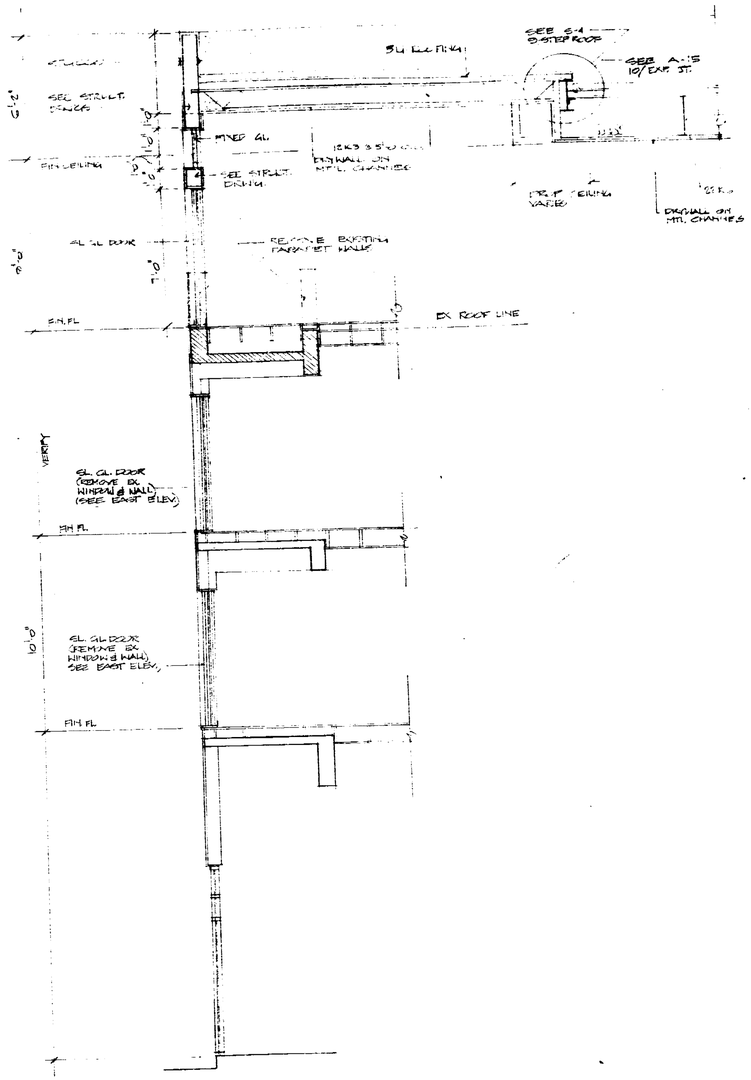
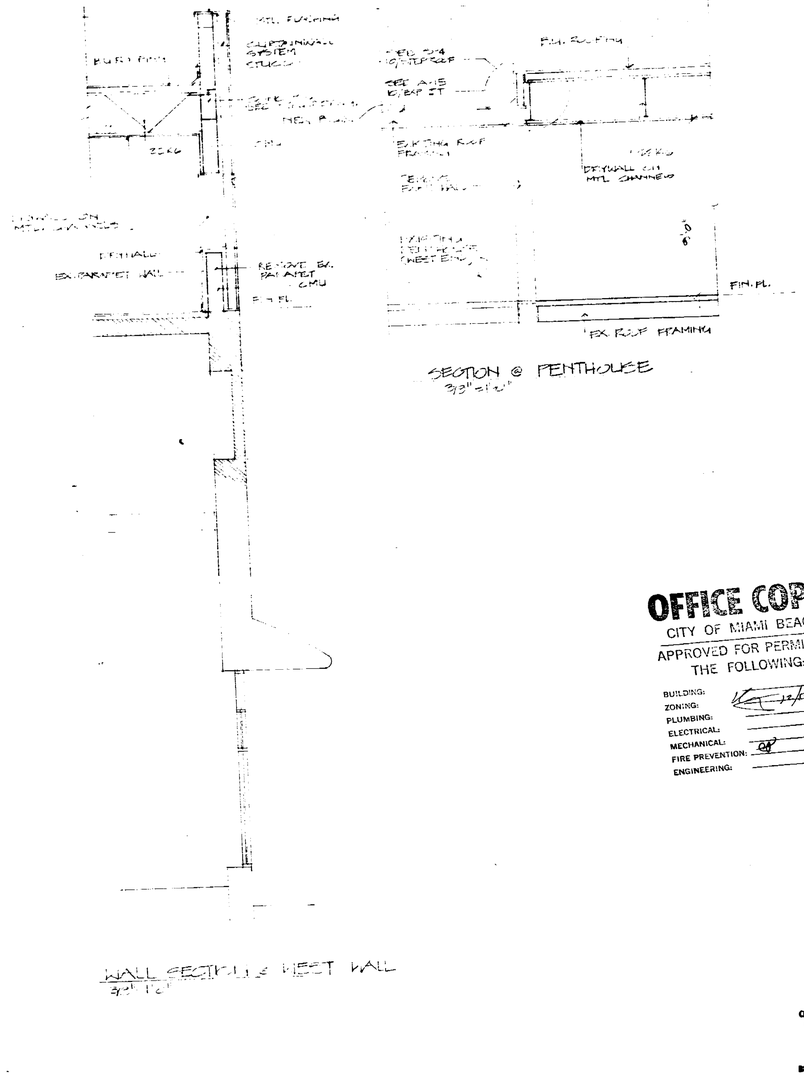


WALL SECTION @ EAST WALL
3/8" = 1'-0"



SECTION @ PENTHOUSE
3/8" = 1'-0"

WALL SECTION @ WEST WALL
3/8" = 1'-0"

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CRYSTAL BEACH CLUB
6665 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2750 POINCIANA BLVD. KISSIMMEE, FL 32741
407-396-4999

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A-12

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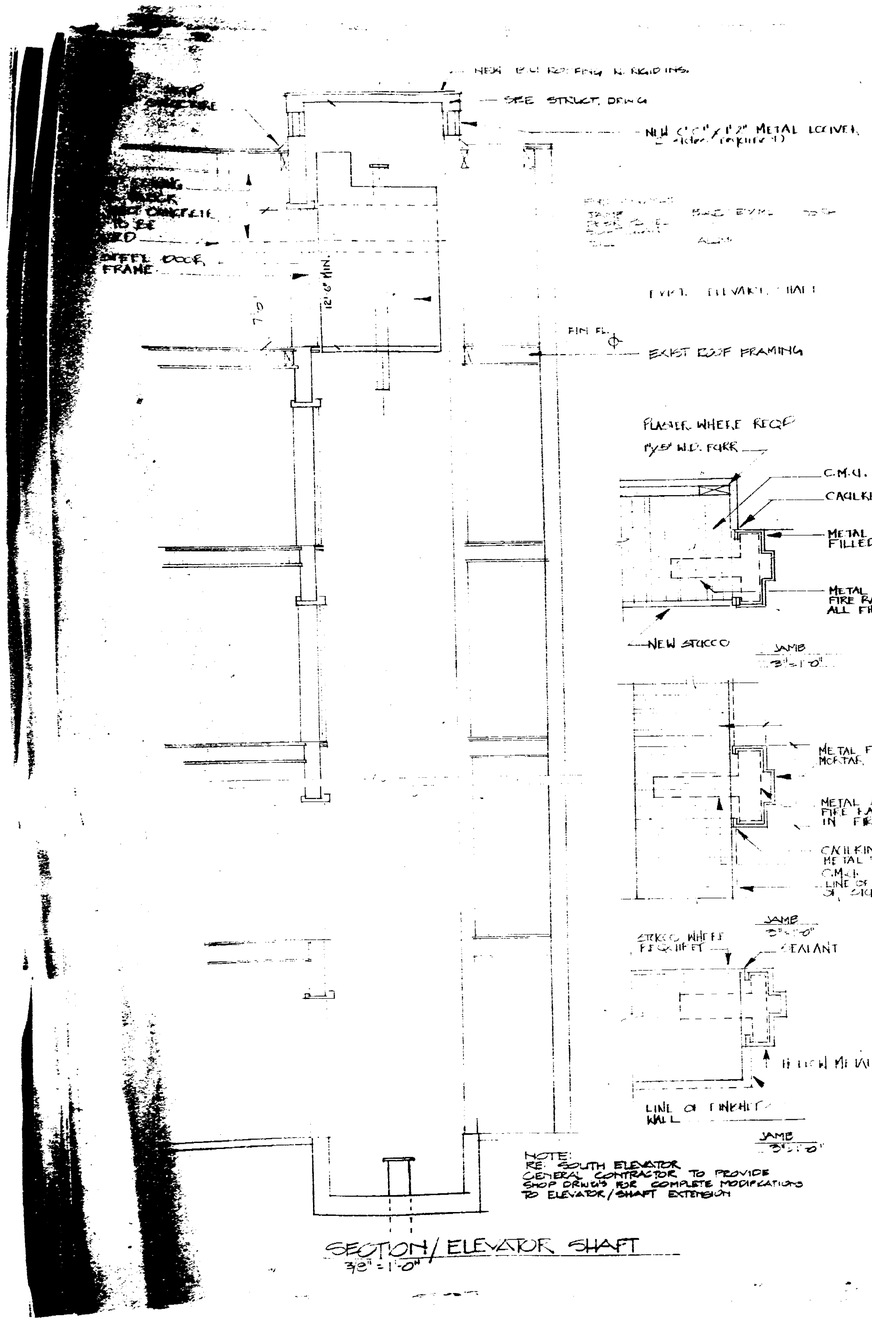
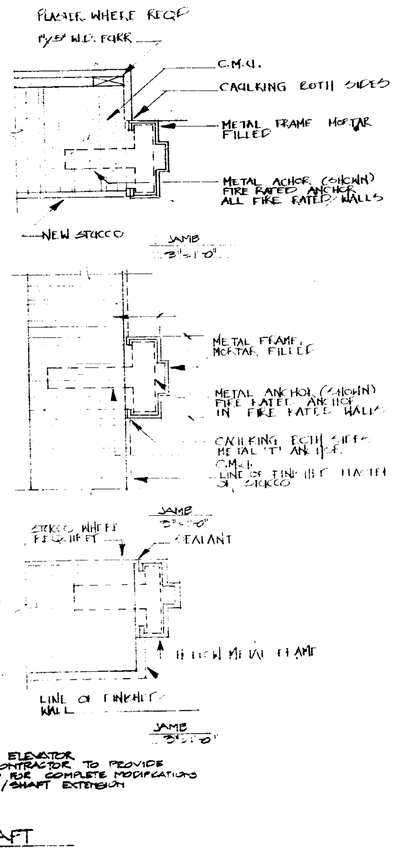
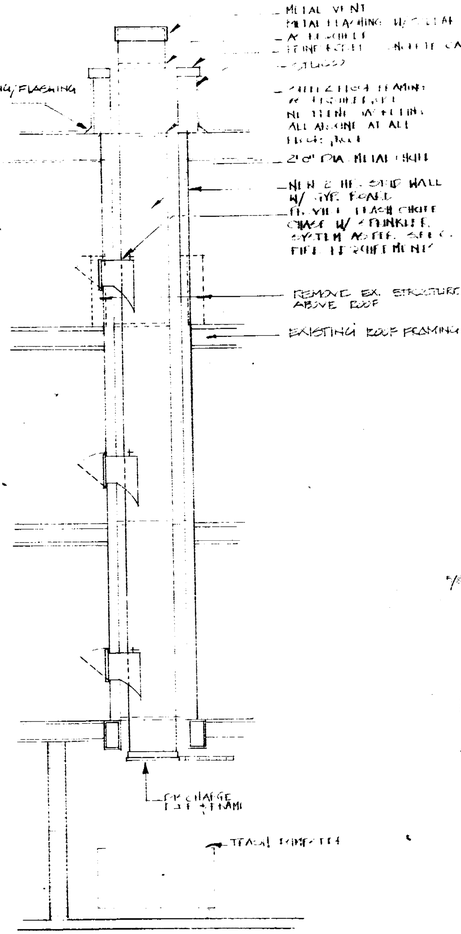


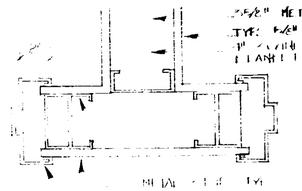
SECTION/ELEVATOR SHAFT
3/8" = 1'-0"

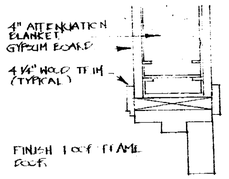


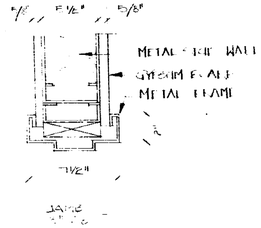
NOTE:
RE: SOUTH ELEVATOR
GENERAL CONTRACTOR TO PROVIDE SHOP DRWGS FOR COMPLETE MODIFICATIONS TO ELEVATOR/SHAFT EXTENSION



SECTION/TRASH CHUTE
3/8" = 1'-0"







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CRYSTAL BEACH CLUB
8085 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2750 PONCIANA BLDG. KISSIMMEE, FL 32741
407-396-1996

11-11-92

A-13

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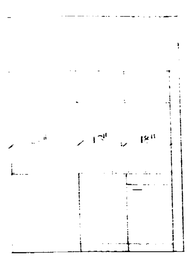
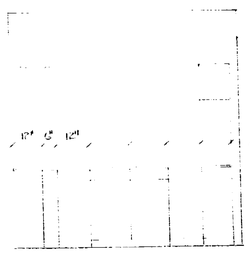
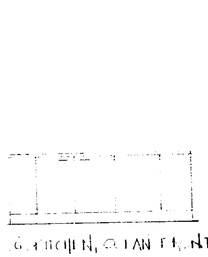
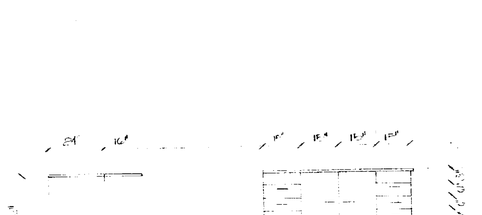


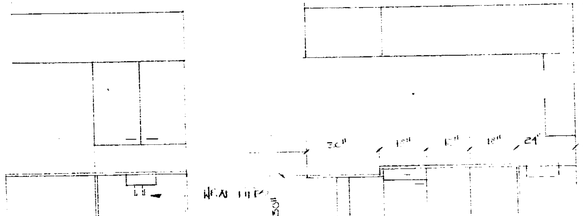
KITCHEN

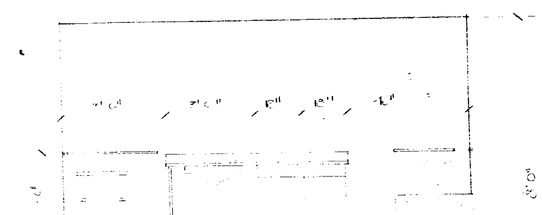


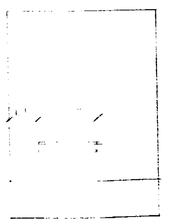
KITCHEN

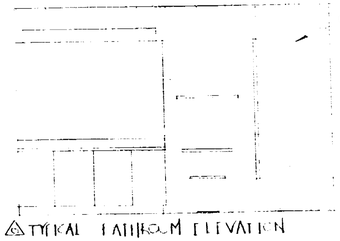


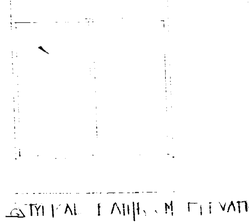












TYPICAL BATHROOM ELEVATION

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CITY OF MIAMI BEACH

APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING:
ZONING: 12/10/92
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

CITY OF MIAMI BEACH
RECEIVED
DEC 04 1992
BUILDING DEPARTMENT

CRYSTAL BEACH CLUB
6985 COLLINS AVE. MIAMI BEACH, FLORIDA

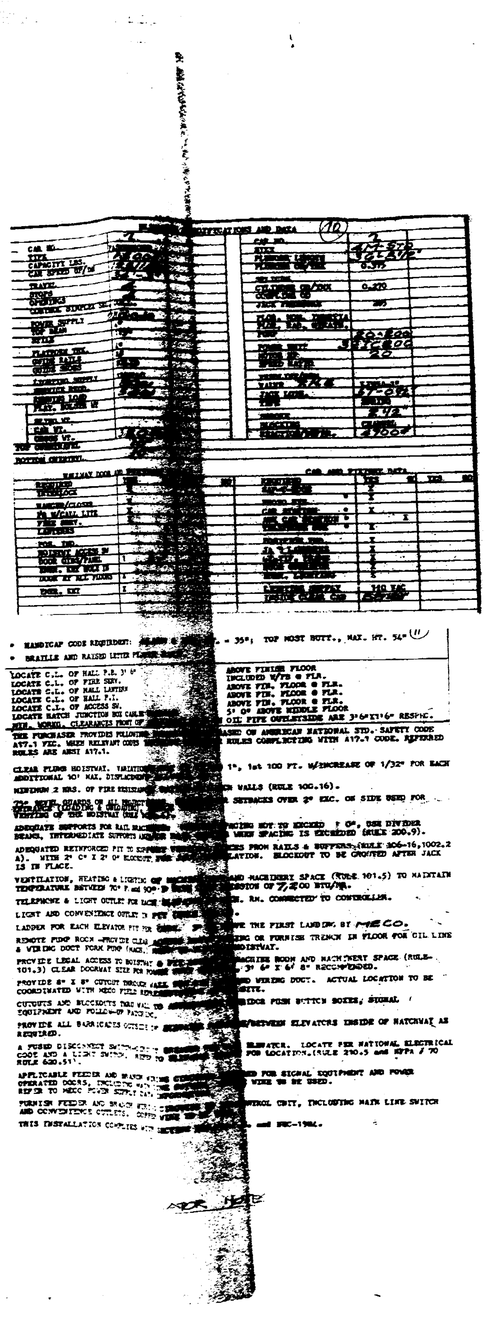
STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2750 PONCIANA BLVD. KISSIMMEE, FL 32741
407-396-4900

Date 11-11-92
Scale
Drawn
Job

Sheet A-14
of 39 Sheets

8

30



ELEVATOR SPECIFICATIONS AND DATA (10)

CAR NO. 1
TYPE HYDRAULIC
CAPACITY LBS. 2500
CAR SPEED FT/M 100 FPM
TRAVEL 24'-0"
STOPS 3
OPENINGS 3
CONTROL SYSTEM SELECTIVE COLLECTIVE
DOOR SUPPLY MFR. MANUFACTURER'S STD.
TYPE 2 SPEED
RATED 150 FPM
FINISH
PLATFORM SIZE 6'-8" X 8'-0"
ENTRY SIDE
CAR ENTRANCE SUPPLY MFR. MANUFACTURER'S STD.
TYPE 2 SPEED
RATED 150 FPM
FINISH
CAR ENTRANCE SIZE 3'-6" X 7'-0"
DOOR OPENING SIDE
NO. CAR ENTR. 1
CAR ENTR. VT.
DOOR OPERATING
DOOR CLOSING
DOOR OPENING
DOOR CLOSING
DOOR OPENING
DOOR CLOSING
DOOR OPEN

ELEVATOR SPECIFICATIONS AND DATA (10)

CAR NO.	1	CAR NO.	2
TYPE	PASSENGER	TYPE	ARC-250
CAPACITY LBS.	1500#	PLUNGER LENGTH	32-2½"
CAR SPEED FPM	125/150	PLUNGER DIA/PER	0.375
TRAVEL	34'-3"	CYL. DATA:	
STOPS	4	CYLINDER OD/IDX	0.270
OPENINGS	4	COUPLING OD	
ELECTRIC SURFACE SEC. COOL.		JACK PRESSURE	285
POWER SUPPLY	230-3-60	PLUNGER MOMENT INERTIA	
TOP REAR	4'0"	PLUNGER RAD. GYRATN.	
STYLE	175"	TANK	20-200
PLATFORM DEX.	6'0"	POWER UNIT	3 HP 1800
GUIDE RAILS	8	HOURS UP	20
GUIDE SHOES	ROLLER	SPEED REGTR.	
CONTROL SUPPLY	230VAC	WIRING TRAVELING	
ASSEMBLY BOARD	30	WIRE	22GA/multi
HOISTING LOAD	340	CABLE LOCAL	17-22GA
ELEV. HOLDER WT.		TYPE	SHIELDED
MISC WT.			2½"
CAB WT.		MACHINE	CHANNEL
GROSS WT.	38004	CAPACITY/MOTOR	4700#
TOP OVERHEAD	10'0"		
BOTTOM OVERHEAD	10'0"		

HALLWAY DOOR AND ENTRANCE DATA

REQUIRED	YES	NO	YES	NO
INTERLOCK	X			
HANGER/CLOSER	X			
PB W/CALL LITE	X			
FIRE SERV.	X			
LANTERN		X		
VOL. UNO.		X		
HOISTWAY ACCESS SW		X		
DOOR CLOSE FINISH	1	2✓		
SPEC. KEY SOLD IN DOOR AT ALL FLOORS	X			
EMER. KEY	X			

CAR AND FIXTURE DATA

REQUIRED	YES	NO	YES	NO
SAC-CAR	X			
WOOD SIDE *	X			
CAR SELECTOR *	X			
ONE CAR STATION *		X		
TWO CAR STATION *	X			
HORIZONTAL UNO.	X			
24 LANDINGS	X			
100-FT. PLANS	X			
DOOR OPERATOR	X			
MODEL/VOLTAGE	X			
LIGHTING SHUTAY	110 VAC			
INSIDE CLEAR CAB	80"x60"			

- HANDICAP CODE REQUIREMENT: ALARM @ MAX. HT. = 35": TOP MOST BUTT., MAX. HT. 54" (11)
- BRAILLE AND RAISED LETTER PLATE REQD.

LOCATE C.L. OF HALL P.B. 3' 6"	ABOVE FINISH FLOOR
LOCATE C.L. OF FIRE SERV.	INCLUDED W/PB @ FLR.
LOCATE C.L. OF HALL LANTERN	ABOVE FIN. FLOOR @ FLR.
LOCATE C.L. OF HALL P.I.	ABOVE FIN. FLOOR @ FLR.
LOCATE C.L. OF ACCESS SW.	ABOVE FIN. FLOOR @ FLR.
LOCATE HATCH JUNCTION BOX CABLE HANGER	54" OR ABOVE MIDDLE FLOOR

MIN. WORK. CLEARANCES FRONT OF CONTROLLER & ON OIL PIPE OUTLETSIDE ARE 3'6"x11'6" RESPEC.

THE PURCHASER PROVIDES FOLLOWING REQUIREMENTS BASED ON AMERICAN NATIONAL STD. SAFETY CODE A17.1 YEC. WHEN RELEVANT CODES INCLUDE STRICTER RULES CONFLICTING WITH A17.1 CODE. REFERRED RULES ARE ANSI A17.1.

CLEAR PLUMB HOISTWAY. VARIATIONS NOT TO EXCEED 1", 1st 100 FT. W/INCREASE OF 1/32" FOR EACH ADDITIONAL 10' MAX. DISPLACEMENT ALLOWED, 2".

MINIMUM 2 HRS. OF FIRE RESISTANCE RATING OF HATCH WALLS (RULE 100.16).

TOE GUARD CHANGE OF ALL PROJECTIONS, RECESSES OR SETBACKS OVER 2" EXC. ON SIDE USED FOR ENTRANCE LOADING & UNLOADING. (RULE 100.2).

VENTING OF THE HOISTWAY (RULE 100.2).

ADEQUATE SUPPORTS FOR RAIL BRACKETS: MAXIMUM SPACING NOT TO EXCEED 8'0", USE DIVIDER BEAMS, INTERMEDIATE SUPPORTS AND/OR RAIL BACKING WHEN SPACING IS EXCEEDED (RULE 200.9).

ADEQUATE REINFORCED PIT TO SUPPORT VERTICAL FORCES FROM RAILS & BUFFERS (RULE 106-16,1002.2 A). WITH 2' 0" X 2' 0" BLOCKOUT FOR JACK INSTALLATION. BLOCKOUT TO BE GROUTED AFTER JACK IS IN PLACE.

VENTILATION, HEATING & LIGHTING OF MACHINE ROOM AND MACHINERY SPACE (RULE 101.5) TO MAINTAIN TEMPERATURE BETWEEN 90° F. and 90° F WITH HEAT EMISSION OF 7,200 BTU/HR.

TELEPHONE & LIGHT OUTLET FOR EACH ELEVATOR IN MACH. RM. CONNECTED TO CONTROLLER.

LIGHT AND CONVENIENCE OUTLET IN PIT (RULE 106.1e).

LADDER FOR EACH ELEVATOR PIT PER CODE. 3' 6' ABOVE THE FIRST LANDING BY MECO.

REMOTE PUMP ROOM - PROVIDE CLEAR ACCESS ABOVE CEILING OR FURNISH TRENCH IN FLOOR FOR OIL LINE & WIRING DUCT FORM PUMP (MACH.) ROOM TO ELEVATOR HOISTWAY.

PROVIDE LEGAL ACCESS TO HOISTWAY & PIT ACCESS TO MACHINE ROOM AND MACHINERY SPACE (RULE-101.3) CLEAR DOORWAY SIZE FOR POWER UNIT ENTRANCE, 3' 6" X 6' 8" RECOMMENDED.

PROVIDE 8" X 8" CUTOUT THROUGH WALL FOR OIL LINE AND WIRING DUCT. ACTUAL LOCATION TO BE COORDINATED WITH MECO FIELD REPRESENTATIVE AT JOB SITE.

CUTOUTS AND BLOCKOUTS THRU WALL TO ACCOMMODATE CORRIDOR PUSH BUTTON BOXES, SIGNAL EQUIPMENT AND FOLLOW-UP PATCHING.

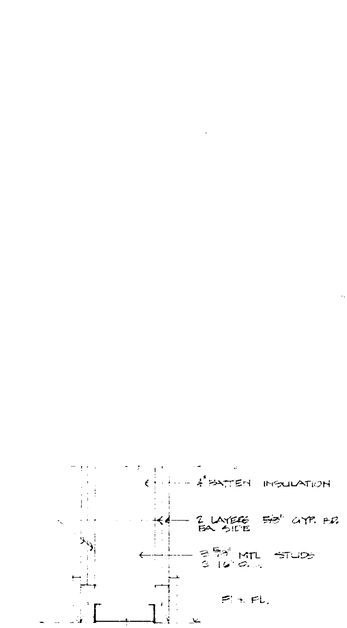
PROVIDE ALL BARRICADES OUTSIDE OF ELEVATOR HATCHWAY/BETWEEN ELEVATORS INSIDE OF HATCHWAY AS REQUIRED.

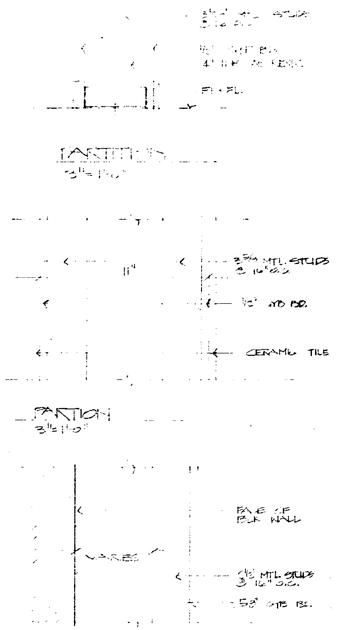
A FUSED DISCONNECT SWITCH-CIRCUIT BREAKER FOR EACH ELEVATOR. LOCATE PER NATIONAL ELECTRICAL CODE AND A LIGHT SWITCH. REFER TO ELEVATOR LAYOUT FOR LOCATION.(RULE 210.5 and NFPA # 70 RULE 620.51).

APPLICABLE FEEDER AND BRANCH WIRING CIRCUITS REQUIRED FOR SIGNAL EQUIPMENT AND POWER OPERATED DOORS, INCLUDING MAIN LINE SWITCH. COPPER WIRE TO BE USED. REFER TO MECO POWER SUPPLY DATA INFORMATION.

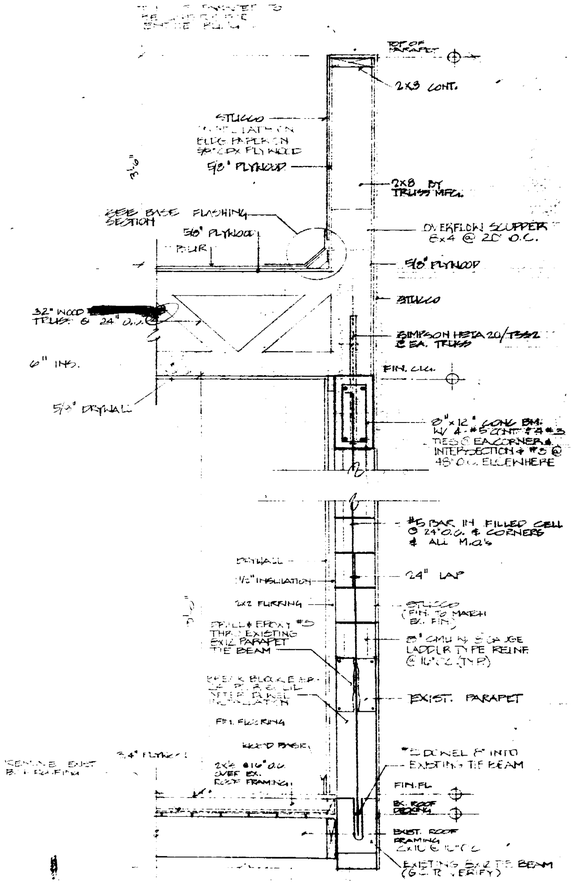
FURNISH FEEDER AND BRANCH WIRING CIRCUITS TO THE CONTROL UNIT, INCLUDING MAIN LINE SWITCH AND CONVENIENCE OUTLETS. COPPER WIRE TO BE USED.

THIS INSTALLATION COMPLIES WITH SECTION 399.035 F.S. and REC-1984.



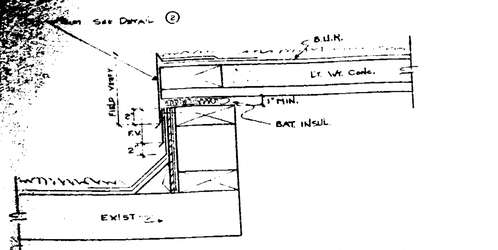


OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING
ZONING
PLUMBING
ELECTRICAL
MECHANICAL
FIRE PREVENTION
ENGINEERING

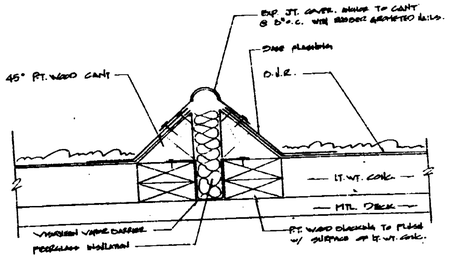


WALL SECTION
1"=1'-0"

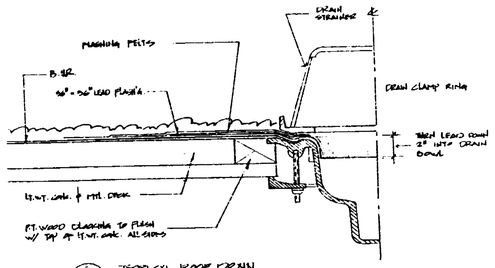
STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
8995 COLLINS AVE.
CRYSTAL BEACH CLUB
8995 COLLINS AVE. SURFSIDE, FLORIDA
11-11
A-8



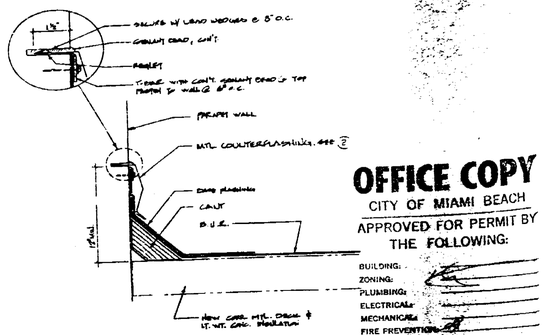
10 EXP. JT. @ PENTHOUSE & EAST END
N.T.S.



4 EXPANSION JOINT SECTION
N.T.S.

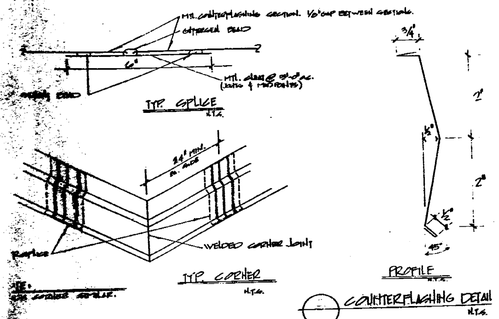


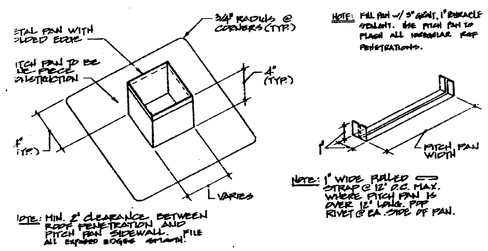
3 TYPICAL ROOF DRAIN
N.T.S.



8 BASE FLASHING SECTION
NOT TO SCALE

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

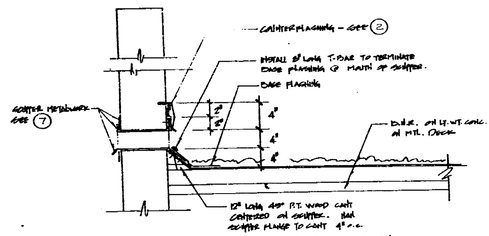




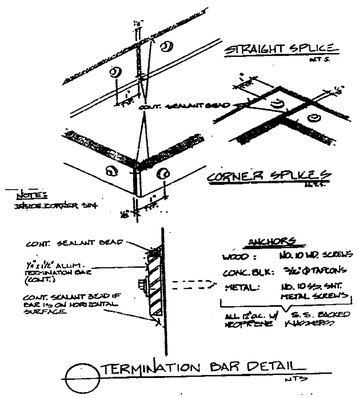
5 PITCH PAN
N.T.S.

NOTE: FILL PAN w/ 2" MIN. 1" PINNACLE SEALANT. USE PITCH PAN TO FLASH ALL IRREGULAR ROOF PENETRATIONS.

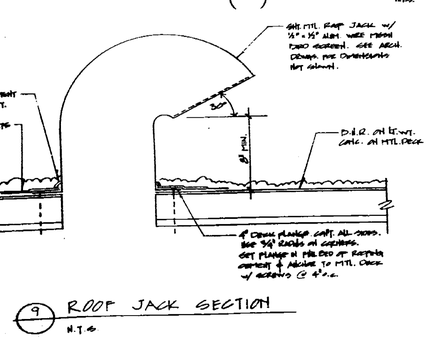
NOTE: 1" WIDE RAILED STRAP @ 12" O.C. MAX. WHERE PITCH PAN IS OVER 12" LONG. PUP RIVET @ EA. SIDE OF PAN.



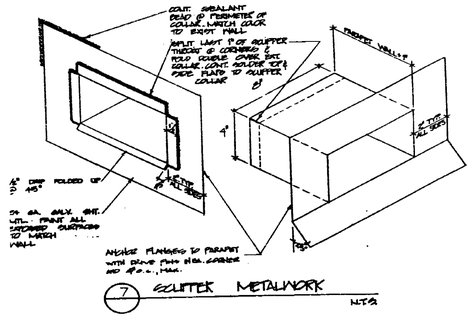
6 PARAPET SCUPPER SECTION
N.T.S.



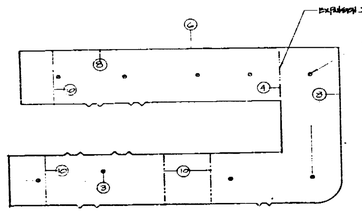
TERMINATION BAR DETAIL
N.T.S.



9 ROOF JACK SECTION
N.T.S.



7 SCUPPER METALWORK
N.T.S.



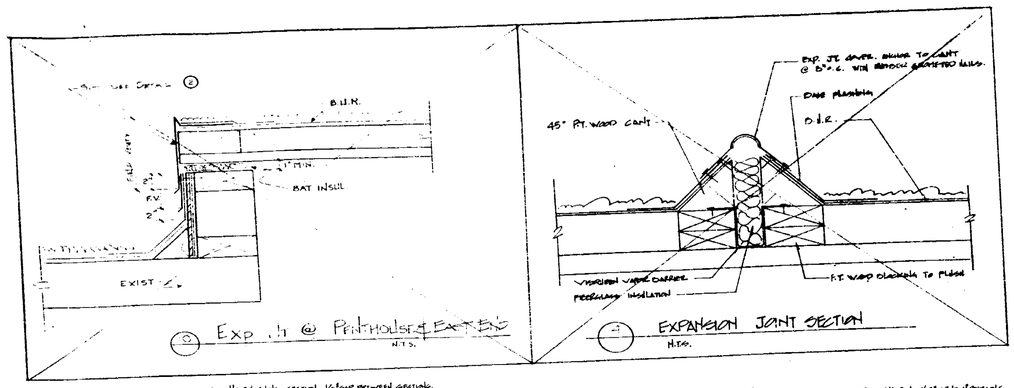
SCHEMATIC ROOF PLAN

NOTE: CONTRACTOR SHALL FIELD VERIFY ALL QUANTITIES, LOCATIONS & DIMENSIONS.

CRYSTAL
FIRST LEISURE CORP.
8995 COLLINS AVE.
SURFSIDE, FLA.

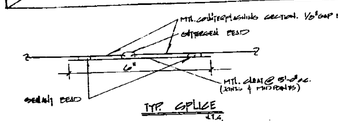
CITY OF MIAMI BEACH
RECEIVED
DEC 04 19

8

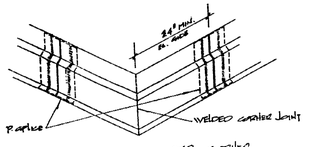


EXP. JT @ PENTHOUSE & EAST END
N.T.S.

EXPANSION JOINT SECTION
N.T.S.



MTL. SPLICE
N.T.S.

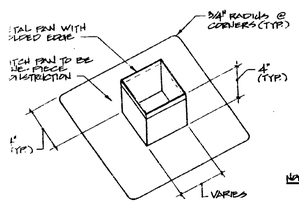


MTL. CORNER
N.T.S.

NOTE:
FOR SCUPPER LOCATION.

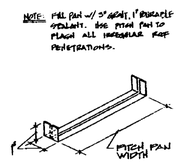
PROFILE

COUNTERFLASHING DETAIL
N.T.S.



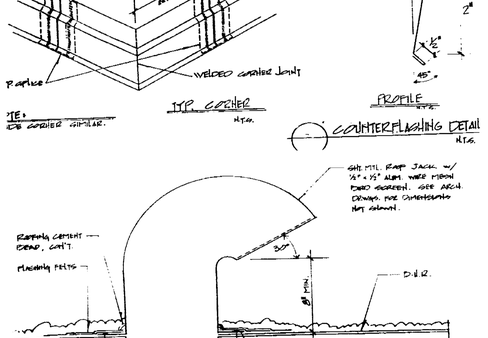
NOTE: MIN. 2" CLEARANCE BETWEEN ROOF PENETRATION AND PITCH PAN SIDEWALL. FILL ALL EXPOSED EDGES SOLIDLY.

PITCH PAN
N.T.S.

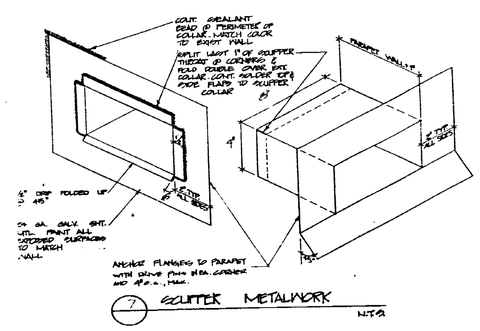


NOTE: 1" WIDE FLATED STRAP @ 12" O.C. MAX. WHERE PITCH PAN IS OVER 12" LONG. POP RIVET @ EA. SIDE OF PAN.

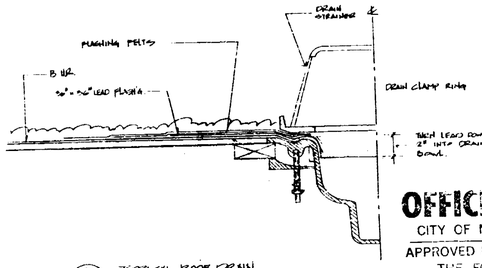
NOTE: FILL PAN W/ 3" MIN. 1" POURABLE SEALANT. USE PITCH PAN TO FLASH ALL IRREGULAR ROOF PENETRATIONS.



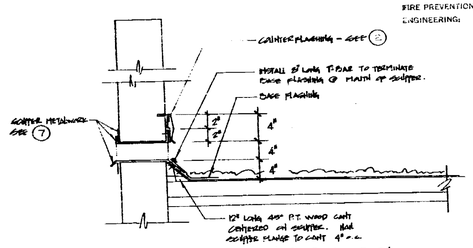
ROOF JACK SECTION
N.T.S.



SCUPPER METALWORK
N.T.S.



TYPICAL ROOF DRAIN
N.T.S.



PARAPET SCUPPER SECTION
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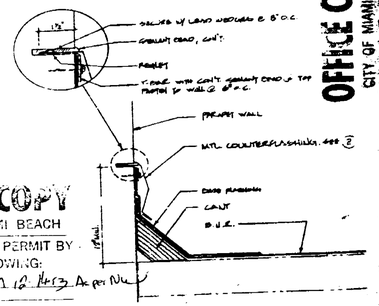

BASE FLASHING SECTION
1½" = 1'-0"

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CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING: Oh 12 Nov 3 As per Nu
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION: OK 12/14/83
ENGINEERING:

OFFICE COPY
CITY OF MIAMI BEACH
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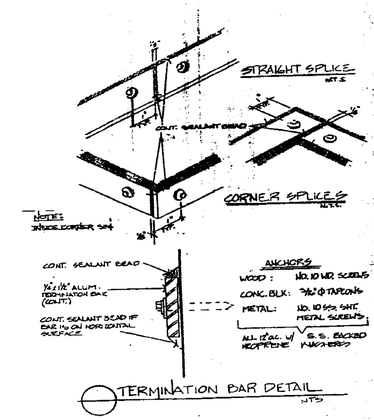
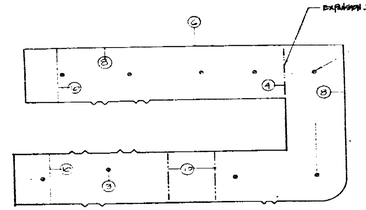
THE FOLLOWING:
BUILDING
ZONING
PLUMBING
ELECTRICAL
MECHANICAL
FIRE PREVENTION
ENGINEERING

RECEIVED
DEC 03 1983



TERMINATION BAR DETAIL
NTS

SCHEMATIC ROOF PLAN
GRAPHIC SCALE: 0 8' 16' 32'



NOTE: CONTRACTOR SHALL FIELD VERIFY ALL QUANTITIES, LOCATIONS & DIMENSIONS.

CRYSTAL BEACH CLUB
FIRST CLASS APARTMENTS
MIAMI BEACH, FLORIDA
COLLINS AVE.

8

30

GENERAL NOTES

00000 BUILDING CODES:

SOUTH FLORIDA BUILDING CODE - 1988 DADE COUNTY EDITION
COASTAL CONSTRUCTION BUILDING CODE GUIDELINES, TR NO. 80-1.

00500 STRUCTURAL LOADING:

THE STRUCTURE HAS BEEN DESIGNED IN ACCORD WITH THE BUILDING CODE AND/OR MORE RESTRICTIVE REQUIREMENTS FOR LOADS AS GIVEN BELOW UNLESS SPECIFIC AREAS OF THE DRAWINGS SPECIFICALLY CALL FOR DIFFERENT LOADING CRITERIA.

GRAVITY LOADINGS	UNIFORM LIVE LOAD
APARTMENTS, DWELLINGS, HOTELS	40 PSF
PRIVATE BALCONIES	60 PSF
PATH OF EGRESS - COMMERCIAL	100 PSF
- RESIDENTIAL	80 PSF
ROOFS - NOMINALLY FLAT	30 PSF
- SLOPE 1 1/2:12 OR MORE	20 PSF

WIND LOAD AS PER BUILDING CODE. (WIND VELOCITY 120 MPH)

01051 DRAWING DIMENSIONS AND COORDINATION:

DIMENSIONAL INFORMATION, PRICING, ALL DETAILS AND CONSTRUCTION SHALL BE BASED ON THE ENTIRE SET OF CONTRACT DOCUMENTS. COORDINATE THE REQUIREMENTS OF ALL PROFESSIONALS. USE INFORMATION FROM APPROVED SHOP DRAWINGS TO SUPPLEMENT CONTRACT DOCUMENTS WHERE NECESSARY. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING.

WHERE CRITICAL DIMENSIONS CANNOT BE DETERMINED FROM THE PLANS, OR WHERE NEW WORK ADJOINS EXISTING CONSTRUCTION, OR WHERE ONE MATERIAL ADJOINS A PREVIOUSLY PLACED MATERIAL WITH A MORE RESTRICTIVE TOLERANCE THAN THE IN-PLACE MATERIAL, CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AS REQUIRED TO COMPLETE SHOP DRAWINGS AND INSTALLATION. REPORT ANY DISCREPANCIES EXCEEDING 3% BETWEEN FIELD MEASURED DIMENSIONS AND SCALED DRAWING DIMENSIONS TO ARCHITECT BEFORE PROCEEDING WITH WORK.

WHERE A LINE OF STRUCTURE, OPENING LOCATION, OR DIMENSION IS CRITICAL AND BASED ON THE REQUIREMENTS OF ANOTHER TRADE OR SUBCONTRACTOR, THAT SUBCONTRACTOR SHALL SUBMIT A SHOP DRAWING WITH THE REQUIRED DIMENSIONAL INFORMATION UPON WHICH THE CONTRACTOR SHALL BASE THE LAYOUT AND CONSTRUCTION. THIS PROCEDURE IS MANDATORY FOR CURTAIN WALL SYSTEMS, ARCHITECTURAL PRECAST SYSTEMS, AND ALL MECHANICAL AND ELECTRICAL OPENINGS.

THE ENGINEER WILL CLOUD OR OTHERWISE INDICATE REVISIONS TO THESE DOCUMENTS ONLY AFTER THEY HAVE BEEN ISSUED FOR CONSTRUCTION OR FINAL PRICING. CHANGES PRIOR TO THAT DATE WILL NOT BE CLOUDED. CHANGES AND/OR REVISIONS AFTER THE CONSTRUCTION OR FINAL PRICING ISSUE WILL BE CLOUDED IN AN ATTEMPT TO BRING TO THE CONTRACTOR'S ATTENTION ANY MAJOR ITEMS, HOWEVER, IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE PRICING AND CONSTRUCTION OF ALL REQUIREMENTS OF THESE DOCUMENTS, INCLUDING REVISIONS (FLAGGED OR UN-FLAGGED) WITH ALL OF HIS SUPPLIERS AND SUBCONTRACTORS.

01100 SCOPE OF SERVICE:

THE STRUCTURAL ENGINEER OF RECORD HAS DESIGNED AND IS RESPONSIBLE FOR ONLY THE STRUCTURAL COMPONENTS SHOWN IN THIS SET OF STRUCTURAL CONSTRUCTION SPECIFIC STRUCTURAL COMPONENTS SHOWN IN THIS SET OF STRUCTURAL CONSTRUCTION DOCUMENTS. IF A SPECIALITY ENGINEER, AS DEFINED BY THE DEPARTMENT OF PROFESSIONAL REGULATION, IS REQUIRED, HIS SERVICES MUST COMPLY WITH THE SCOPE OF SERVICES AS OUTLINED IN THE PROJECT CONSTRUCTION DOCUMENTS.

01400 STRUCTURAL FRAME INSPECTION:

OWNER TO EMPLOY A REGISTERED INSPECTOR TO PERFORM THE DUTIES REQUIRED BY THE STATE OF FLORIDA AND THE LOCAL BUILDING CODE.

03100 FORMWORK:

CONTRACTOR SHALL DESIGN AND ERECT FORMWORK IN STRICT COMPLIANCE WITH ACI 347R-88. SEE TYPICAL DETAILS FOR CAMBER REQUIREMENTS. CONTRACTOR SHALL COORDINATE ALL OPENINGS AS REQUIRED FOR OTHER TRADES. OPENINGS WHERE SHOWN ON THE STRUCTURAL DRAWINGS ARE TO IDENTIFY DESIGN INTENT ONLY. THE SPECIFIC DIMENSIONS AND LOCATIONS SHALL BE FURNISHED OR CONFIRMED BY THE TRADE REQUIRING THE OPENING. PROVIDE CHAMFERS AT ALL CORNERS IN CONCRETE MEMBERS EXPOSED TO VIEW. FORMWORK TO REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED ENOUGH STRENGTH TO SUPPORT ALL DEAD LOADS PLUS A MINIMUM OF 50 PSF OF ADDITIONAL CONSTRUCTION LOAD. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

03200 CONCRETE REINFORCEMENT:

WORK SHALL BE IN ACCORD WITH ACI 301-89, ACI 315-80, ACI 318-89, CRSI "MANUAL OF STANDARD PRACTICE" 1990, CRSI "PLACING REINFORCING BARS" 1981, WRI "MANUAL OF STANDARD PRACTICE", 1992. BARS SHALL CONFORM TO ASTM SPECIFICATION A615(81), GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. WELDED MATS SHALL CONFORM TO ASTM A497. SEE TYPICAL DETAILS FOR SPLICE REQUIREMENTS. TOTAL STEEL AT LAP SPLICES SHALL NOT EXCEED 8%. THEREFORE, MEMBERS WITH REINFORCING RATIO NOT EXCEEDING 4% MAY HAVE ALL BARS LAPPED, 5.3% MEMBERS WITH REINFORCING RATIO NOT EXCEEDING 6% MAY HAVE 1/2 BARS LAPPED, AND 6.0% MAY HAVE 1/3 BARS LAPPED. ALL IN ACCORD WITH ACI 318-89. MECHANICAL CONNECTORS SHALL BE IN ACCORD WITH ACI 439-3R-83. WELDING SHALL BE IN ACCORD WITH AWS D1.4-92 AND PERFORMED ONLY UNDER DIRECT SUPERVISION OF OWNER'S REPRESENTATIVE.

CONCRETE COVER REQUIRED AS FOLLOWS:

CAST AGAINST AND EXPOSED TO EARTH	3"
FORMED, EXPOSED TO EARTH OR WEATHER	
#6 AND LARGER	2"
#5 AND SMALLER	1-1/2"
SLABS AND WALLS - NO WEATHER EXPOSURE	3/4"
2 HOUR FIRE RATING AND LESS	1"
3 HOUR FIRE RATING AND MORE	
JOISTS - NO WEATHER EXPOSURE	3/4"
1 HOUR FIRE RATING	1"
2 HOUR FIRE RATING	1-1/4"
3 HOUR FIRE RATING AND MORE	1-1/2"
COLUMNS AND BEAMS - TIES OR STIRRUPS	

LAP SPLICE LENGTHS SHALL BE AS FOLLOWS:

1. ALL LAP SPLICES SHALL BE TENSION CLASS "C" UNLESS OTHER LAP CONDITIONS ARE SPECIFICALLY SHOWN ON THE DRAWINGS.
2. TENSION LAP SPLICES TABULATED ARE FOR BARS SPACED LESS THAN 6IA (6) INCHES APART. WHERE SPACING IS GREATER, REDUCED LAP LENGTH MAY BE MADE IN ACCORD WITH ACI-315 AND 318.
3. WHERE STAGGERED LAP SPLICES ARE FURNISHED AS ALTERNATE, CLASS "C" MAY BE REDUCED TO CLASS "B" AND CLASS "B" MAY BE REDUCED TO CLASS "A".
4. COMPRESSION SPLICES IN COLUMNS MAY BE REDUCED BY FURNISHING ADDITIONAL TIES IN SPLICE ZONE IN ACCORD WITH ACI-318.
5. WHERE COMPRESSION SPLICES IN COLUMNS ARE STAGGERED TO REDUCE CONGESTION OR TO KEEP TOTAL STEEL BELOW 8%, NO REDUCTION IN LAP LENGTH IS PERMITTED.
6. SPLICE LENGTHS SHALL BE SHOWN ON SHOP DRAWINGS.
7. USE GENERAL HOOK BAR DEVELOPMENT LENGTHS UNLESS SPECIAL CONFINEMENT CONDITIONS ARE SATISFIED IN ACCORD WITH ACI-318.

F'c=4000 PSI. BARS SPACED LESS THAN 4" ON CENTER

BAR SIZE	COMP LAP	VERTICAL OR OTHER BARS "B"	"C"	TOP HOR BARS "B"	CLASS "C"	HOOKED BAR DEVELOPMENT CLASS "C"	SPECL CONFL
#3	1- 0	1- 0	1- 3	1- 4	1- 9	0- 6	0- 6
#4	1- 3	1- 4	1- 8	1-10	2- 5	0- 6	0- 7
#5	1- 7	1- 8	2- 0	2- 3	3- 0	0- 7	0- 9
#6	1-11	1-11	2- 7	2- 9	3- 7	0- 8	0-10
#7	2- 3	2- 6	3- 3	3- 5	4- 6	0-10	1- 0
#8	2- 6	2- 9	4- 0	4- 2	5-11	0-11	1- 2
#9	2-10	4- 1	5- 5	5- 9	7- 6	1- 0	1- 3
#10	3- 2	5- 3	6-10	7- 4	9- 7	1- 2	1- 5
#11	3- 6	6- 3	8- 5	9- 0	11-9	1- 3	1- 7

03300 CAST-IN-PLACE CONCRETE:

TO BE MIXED AND PLACED IN ACCORDANCE WITH ACI 301-84. ALL REINFORCED CONCRETE TO HAVE 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
ALL STRUCTURAL ELEMENTS F'C = 4000 PSI UNLESS NOTED OTHERWISE

03600 GROUT:

GROUTING IS CLASSIFIED AS "PRECISION GROUTING" FOR SUPPORT OF OPERATING MACHINE BASES, EQUIPMENT SUBJECT TO THERMAL MOVEMENT, AND BASE PLATES, BEARING PLATES, AND EXPANSION BEARINGS EXCEEDING 8" IN LEAST DIMENSION. ALL OTHER GROUTING MAY BE "ORDINARY GROUTING". METALLIC AGGREGATE GROUT MAY BE USED ONLY IN INTERIOR APPLICATIONS NOT EXPOSED TO VIEW IN FINISHED BUILDING AREAS. USE ORDINARY CEMENT GROUT ONLY WHERE SPECIFICALLY NOTED AS "CEMENT GROUT" ON DETAILS. USE NON-SHRINK GROUT FOR ALL OTHER LOCATIONS. PRECISION GROUT SHALL CONFORM TO CRD-C621-89 WHEN MIXED TO FLUID CONSISTENCY OF 25 TO 25 SECONDS (FLOW CONE METHOD, CRD-C611-80). REQUIRED 28 DAY STRENGTHS SHALL BE AS FOLLOWS:

CEMENT GROUT	1800 PSI
NON-SHRINK GROUT	5000 PSI
PRECISION GROUT	6500 PSI

04220 CONCRETE UNIT MASONRY:

ALL MASONRY CONSTRUCTION TO BE IN ACCORDANCE WITH "SPECIFICATION FOR CONCRETE MASONRY CONSTRUCTION", ACI 531.1-76 (REV 1983) AND ALL APPLICABLE LOCAL BUILDING CODE PROVISIONS. ALL MASONRY WALLS TO BE CONSTRUCTED ENTIRELY OF UNITS CONFORMING TO ASTM C 90, AND REINFORCED WITH #9 GAGE LADDER TYPE HORIZONTAL MASONRY REINFORCING LOCATED AT 16" O.C. ALL MASONRY TO BE LAID IN TYPE "S" MORTAR (1800 PSI ON THE JOB) WITH FULL HEAD AND BED JOINTS. ALL MASONRY CONSTRUCTION TO BE EITHER BOUND BY TIE BEAM, TIE COLUMN MEMBERS OR TIED TO FRAME WITH 16 GAUGE CONTINUOUS DOVETAIL SLOT AND 12 GAUGE DOVETAIL ANCHOR SPACED @ 16" O.C. (TOP AND TWO VERTICAL SIDES).

04230 REINFORCED UNIT MASONRY:

ALL REINFORCED MASONRY CONSTRUCTION SHALL BE IN ACCORD WITH APPLICABLE PROVISIONS OF CONCRETE REINFORCEMENT, CAST-IN-PLACE CONCRETE, AND CONCRETE MASONRY. VERTICAL REINFORCING SHALL ANCHOR INTO SUPPORTING CONCRETE MEMBERS A CLASS "C" LAP LENGTH PLUS 3" OR FULL DEPTH PLUS A STANDARD HOOK. LAPS WITHIN REINFORCED MASONRY SHALL BE 48 BAR DIAMETERS. CONTRACTOR SHALL COORDINATE PLACING OF DOWELS TO ACCOMMODATE MODULE OF MASONRY UNITS. ALL VERTICAL CELLS AND BEAMS WITH REINFORCING SHALL BE FILLED WITH COARSE GROUT CONSISTING OF 3000 PSI CONCRETE AGGREGATE. USE HIGH-SLUMP (SUPERPLASTICIZED) WHERE HEIGHT OF LIFT WITH NO COARSE EXCEEDS 4'. WHERE HEIGHT OF OPEN CELL EXCEEDS 4'. USE HIGH-LIFT GROUTING TECHNIQUE WHICH REQUIRES A CLEAN-OUT OPENING AT THE BOTTOM OF ALL CELLS AND PLACING THE GROUT IN MAXIMUM 4' LIFTS WITH A 30 TO 60 MINUTE DELAY BETWEEN LIFTS. ALL WALL TO BE REINFORCED WITH #5@48" O.C. VERTICAL U.N.O.

05055 WELDING:

ALL WELDING TO BE IN ACCORDANCE WITH THE OF THE AMERICAN WELDING SOCIETY (AWS) "STRUCTURAL WELDING CODE-STEEL," D1.1 - 1986 AND AS INDICATED ON THE STRUCTURAL DRAWINGS. WELDING ELECTRODES, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES TO BE IN ACCORDANCE WITH THE A.W.S. SPECIFICATIONS. ANY STRUCTURAL STEEL DAMAGED IN WELDING TO BE REPLACED OR ACCEPTABLY REINFORCED. ALL FULL PENETRATION GROOVE WELDS TO BE SUBJECT TO RADIOGRAPHIC, MAGNETIC PARTICLE, ULTRASONIC, AND LIQUID PENETRANT INSPECTION CONDUCTED BY AN INDEPENDENT TESTING AGENCY PAID BY THE OWNER.

05120 STRUCTURAL STEEL:

ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". STRUCTURAL STEEL TO CONFORM TO:

SHAPES & PLATES	ASTM A 36
PIPE	ASTM A 53 GRADE B
TUBES	ASTM A 500 GRADE B

ALL SHOP AND FIELD CONNECTIONS SHALL BE MADE WITH ASTM A325 HIGH STRENGTH BOLTS OR WELDING. BOLTING TO BE IN ACCORDANCE WITH AISC#303 SPECIFICATIONS. ANY CONNECTION NOT SPECIFICALLY DETAILED SHALL BE DESIGNED BY THE SPECIALTY ENGINEER FOR THE FORCES SHOWN ON THE STRUCTURAL CONSTRUCTION DOCUMENTS. WHERE FORCES ARE NOT PROVIDED DESIGN SHALL BE BASED ON THE MAXIMUM LOAD CAPACITIES OF THE CONNECTING MEMBERS. ALL STRUCTURAL SUBMITTALS REQUIRING ENGINEERING INPUT SHALL BE ACCOMPANIED BY DESIGN CALCULATIONS AND BE SIGNED AND SEALED BY THE SPECIALTY ENGINEER. ALL STEEL AT AND BELOW FINISHED GRADE TO BE FIELD PAINTED AND COVERED WITH A MINIMUM OF 2" CONCRETE. ALL BEAMS BEARING ON CONCRETE TO HAVE A 3/8" X 7" X 8" BEARING PLATE WITH TWO (2) 1/2" HEADED ANCHOR BOLTS 12" LONG, UNLESS NOTED OTHERWISE.

FRAME OPENINGS: SEE TYPICAL DETAILS FOR ADDITIONAL REINFORCING REQUIRED AT FRAME OPENINGS. SPECIFIC APPROVAL WILL BE REQUIRED FOR OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS. FRAME OPENINGS WITH L 4 X 4 X 5/16 U.N.O.
LINTELS: WHERE PRECAST LINTELS ARE NOT FURNISHED AND UNLESS OTHERWISE SHOWN OR NOTED, PROVIDE ONE ANGLE FOR EACH 4" THICKNESS OF WALL OR PARTITION WITH 3 1/2" LEG HORIZONTAL FOR OPENINGS IN MASONRY AS FOLLOWS:

OPENINGS TO 3'-0"	L 3 1/2 X 3 X 1/4
OPENINGS 3'-1" TO 6'-0"	L 4 X 3 1/2 X 5/16
OPENINGS 6'-1" TO 8'-0"	L 5 X 3 1/2 X 3/8
OPENINGS 8'-1" TO 10'-0"	WR218 WITH 5/16" HUNG PLATE

PROVIDE A MINIMUM OF 6" BEARING FOR ANGLE LINTELS AND A MINIMUM OF 8" BEARING FOR BEAM LINTELS. ALL LINTELS TO RECEIVE FIELD COAT OF PAINT BEFORE INSTALLATION.

05210 STEEL JOISTS:

THE DETAILING, FABRICATION AND ERECTION TO CONFORM TO THE LATEST STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI). PROVIDE BRIDGING AND ANCHORS WITH SIZE AND SPACING IN ACCORD WITH SJI. WHERE BRIDGING IS NOT SHOWN ON FRAMING PLANS FOLLOW LATEST SJI SPECIFICATIONS. MINIMUM BRIDGING SIZE TO BE L 1 X 1 X 1/8 IN LIEU OF ROUND BARS. PROVIDE ADDITIONAL BRIDGING AS REQUIRED TO SATISFY MET UPLIFT REQUIREMENTS OR UNBRACED TOP CHORDS WHERE SHOWN ON THE DRAWINGS. PROVIDE CONTINUOUS ANGLE 2 1/2 X 2 1/2 X 1/4 (WELDED TO JOIST ENDS) TO RECEIVE DECK WHERE JOISTS CHANGE DIRECTION. PROVIDE DESIGN CAPACITY FOR MAXIMUM UNSCHEDULED ALLOWABLE CONCENTRATED HANGING LOAD TO BE AS FOLLOWS:

AT ANY PANEL POINT	4000
BETWEEN TOP CHORD PANEL POINTS	1500
BETWEEN BOTTOM CHORD PANEL POINTS	500

SEE STRUCTURAL DRAWINGS FOR SUSPENDED EQUIPMENT SUPPORTS.
ALL STRUCTURAL SUBMITTALS PROVIDED BY THE JOIST MANUFACTURE MUST BE SIGNED AND SEALED BY A SPECIALTY ENGINEER. THE REVIEW OF ALL STRUCTURAL SUBMITTALS BY THE STRUCTURAL ENGINEER OF RECORD SHALL BE TO INSURE THAT HIS INTENT HAS BEEN UNDERSTOOD AND THAT THE SPECIFIED CRITERIA HAVE BEEN USED. A COPY OF ALL STRUCTURAL SUBMITTAL WILL BE RETAIN FOR RECORD KEEPING PURPOSES ONLY.

05312 STEEL ROOF DECK:

THIS SECTION COVERS NOMINALLY FLAT-TOP ROOF DECK TO SUPPORT RIGID BOARD TYPE ROOF INSULATION SYSTEMS. CONFORM TO STEEL DECK INSTITUTE (SDI) "SPECIFICATIONS AND COMMENTARY FOR STEEL ROOF DECK" AND AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS." DRAWING SHOW DECK STYLES IN STANDARD SDI NOTATION WHERE "WR" IS NARROW RIB, "1R" IS INTERMEDIATE RIB, "WR" IS WIDE RIB, "3 DR" IS 3" DEEP RIB, AND THE TWO DIGIT NUMBER IS THE NOMINAL GAGE THICKNESS. ATTACHMENTS SHALL BE WITH SELF-DRILLING SCREWS INTO JOIST CHORDS WITH THICKNESSES LESS THAN 1/16" THICK, WELDING MAY BE USED INTO THICKER MEMBERS. 16 GAGE WELDING WASHERS SHALL BE USED FOR 22 GAGE DECK. WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY (AWS) D1.3-81. "STRUCTURAL WELDING CODE-SHEET STEEL". SIDE LAP FASTENERS SHALL BE #12 SELF-DRILLING SCREWS OR BUTTON PUNCHING, DEPENDING ON THE DECK STYLE. FASTENERS TO CONCRETE OR MASONRY SHALL BE 1/4" DIAMETER TAPCON OR KWIK-CON. TYPICAL FASTENER SPACING SHALL BE AS FOLLOWS:

	NR,IR,WR	3DR
5/8" DIAMETER PLUG WELD TO STEEL	18"	16"
#12 SELF-DRILLING SCREWS TO STEEL	12"	8"
1/4" TAPCON OR KWIK-CON TO CONCRETE	12"	8"
SIDE LAP WITH #12 STITCH SCREWS	24"	36"
SIDE LAPS BUTTON-PUNCHED	12"	12"

DECREASE FASTENER SPACING WHERE DRAWINGS NOTE SPECIAL DIAPHRAGM CONSIDERATIONS. PROVIDE CONTINUOUS ANGLE 2 1/2 X 2 1/2 X 1/4 (WELDED TO JOIST ENDS) TO RECEIVE DECK WHERE SUPPORT MEMBERS CHANGE DIRECTION.

06110 STRUCTURAL WOOD FRAMING AND SHEATHING:

ALL DIMENSION LUMBERS 2" AND LESS IN NOMINAL THICKNESS SHALL BE S4S SURFACED DRY AND STAMPED BY AN AGENCY CERTIFIED BY THE BOARD OF REVIEW OF THE AMERICAN LUMBER STANDARDS COMMITTEE AND MANUFACTURED IN ACCORD WITH PS 20-70. MEMBERS THICKER THAN 2" NOMINAL MAY BE SURFACED GREEN. MINIMUM SPECIES AND GRADES SHALL BE AS FOLLOWS:

USE	SPECIES	GRADE	Fb	Ft	Fv	Fcp	E
ALL	SOUTHERN PINE #2	NO. 2	1400	825	90	565	1,600,000

ALL STUDS AND HEADER SHOULDERS SHALL BE ONE PIECE BETWEEN PLATES AND/OR HEADERS. DO NOT USE BLOCKING BETWEEN HEADERS AND SHOULDER WITH SOFTER COMPRESSION PERPENDICULAR (Fcp) THAN REQUIRED FOR HEADER. DO NOT CUT LET-IN BRACING INTO STUDS. PROVIDE #18 GALVANIZED HURRICANE CLIPS IN ACCORD WITH LOCAL CODE AT ALL ROOF ANCHORAGES AND AT ALL FLOORS.

PLYWOOD SHALL CONFORM TO PS1-83 AND SHALL BE APA GRADE-STAMPED. ROOF SHEATHING SHALL BE "APA RATED SHEATHING EXP 1," 5/8" THICK OR 1/2" THICK WITH PLY CLIPS AT JOINTS BETWEEN JOISTS OR TRUSSES. WALL SHEATHING SHALL BE " APA RATED SHEATHING EXP 1," 3/8" FOR 16" O.C. STUDS OR 1/2" FOR 24" O.C. STUDS. SUBFLOORS SHALL BE "APA RATED SHEATHING EXP 1," 1/2" FOR 16" O.C. FRAMING AND 3/4" FOR 24" O.C. FRAMING. CONFORM TO APA RECOMMENDATIONS FOR INSTALLATION OF PLYWOOD.

TREAT ALL FRAMING IN CONTACT WITH CONCRETE OR MASONRY IN ACCORD WITH AMERICAN WOOD PRESERVER'S BUREAU LP-2 OR PROVIDE 1/4" THICK 60 DUROMETER BEARING PAD BETWEEN CONCRETE OR MASONRY AND UNTREATED WOOD MEMBER.

INDEX OF DRAWINGS

RIVA, KLEIN & TIMMONS
6550 NORTHWEST 99th AVENUE, #3A6 - FLORIDA, 33166
(305) 591-8935

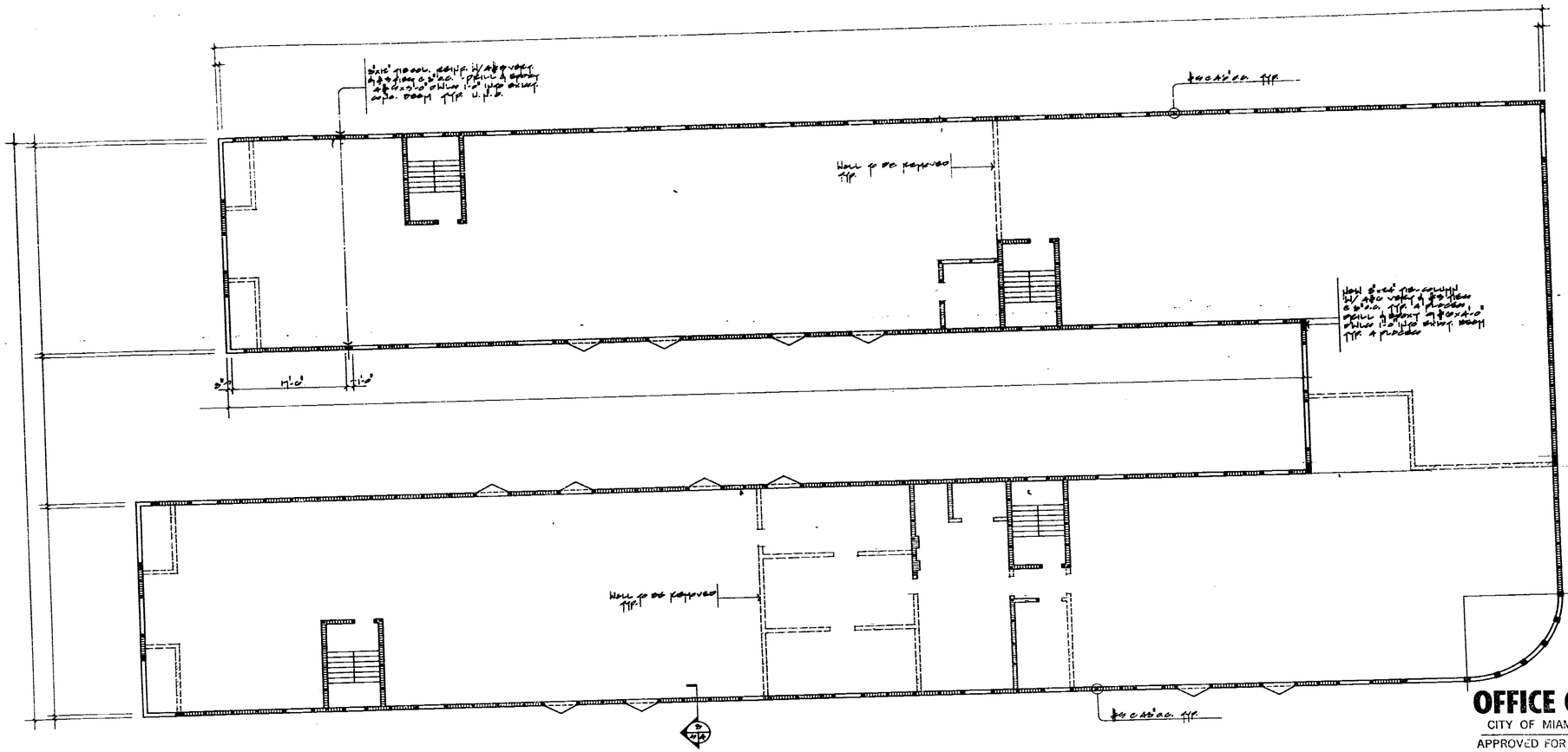
CRYSTAL BEACH CLUB

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING:
ZONING: 12/14/93
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

CITY OF MIAMI BEACH
RECEIVED
DEC 04 1992
BUILDING DEPARTMENT

S-1



FOURTH FLOOR FRAMING PLAN

1/8"

RIVA, KILBIN & TIMMONS

CRYSTAL BEACH CLUB

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CITY OF MIAMI BEACH

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BUILDING:

ZONING:

PLUMBING:

ELECTRICAL:

MECHANICAL:

FIRE PREVENTION:

ENGINEERING:

CITY OF MIAMI BEACH

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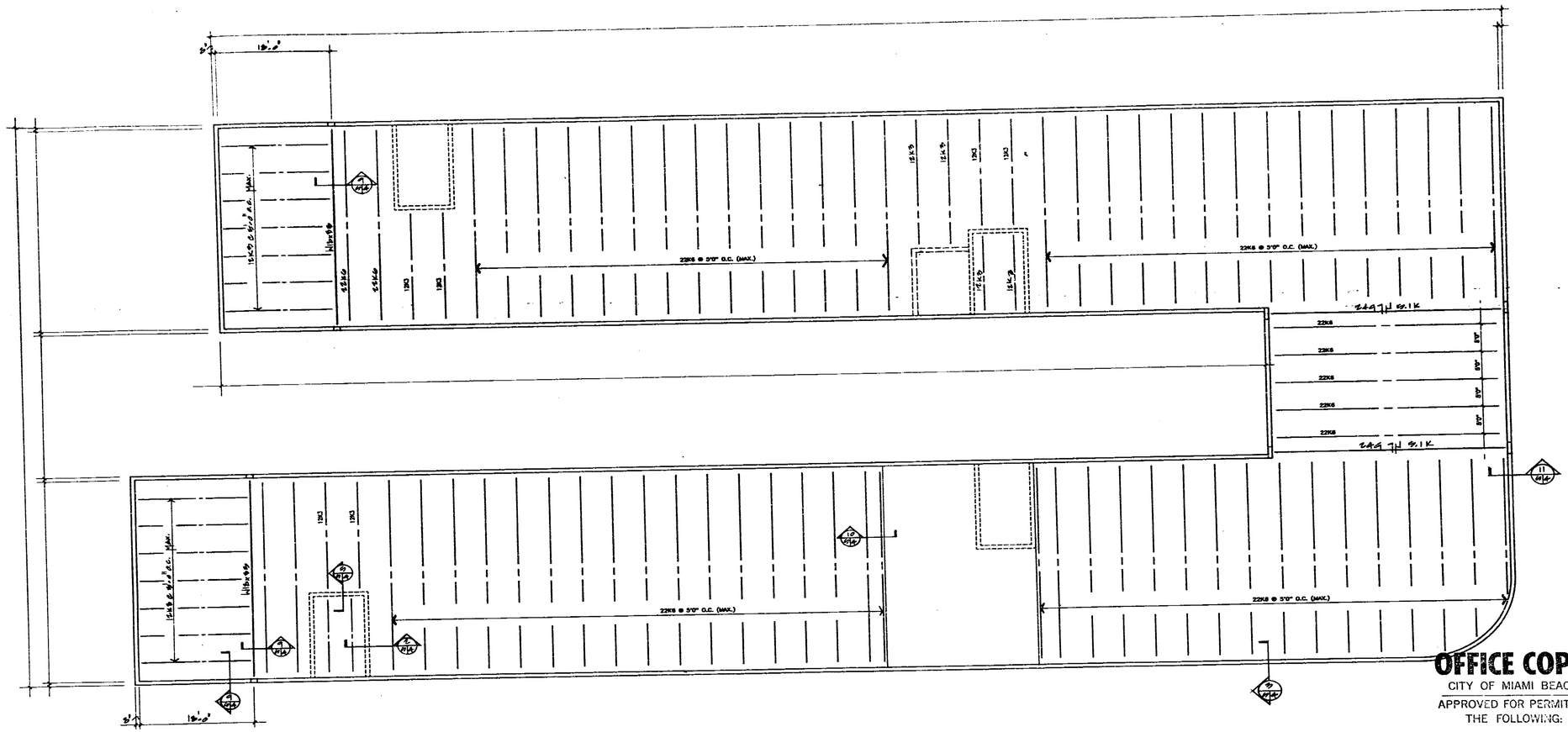
DEC 04 1992

BUILDING DEPARTMENT

S-2

8


22K8 @ 3'0" O.C. (MAX.)
22K8 @ 3'0" O.C. (MAX.)
22K8 @ 3'0" O.C. (MAX.)
22K8 @ 3'0" O.C. (MAX.)
22K8
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2497 lb. S.I.K.
2497 lb. S.I.K.
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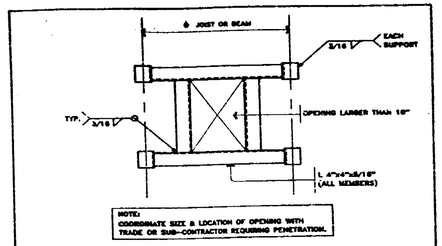
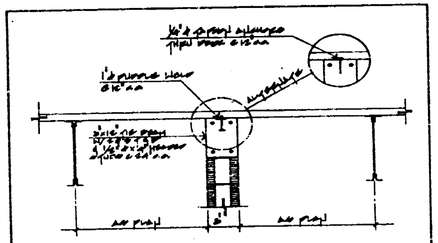
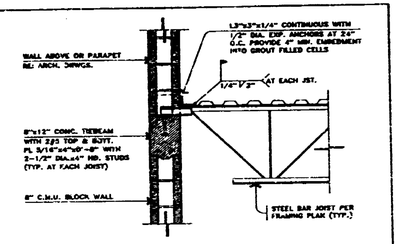


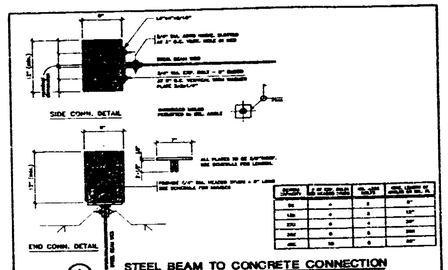
1 TYPICAL OPENING AT METAL DECK



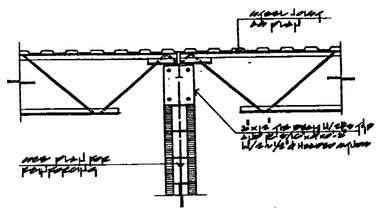
2 DECK ATTACHMENT TO MASONRY WALL



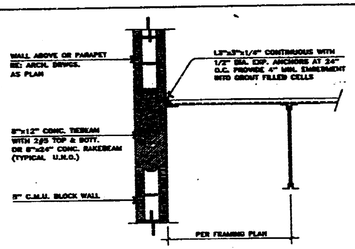
3 JOIST BEARING ON MASONRY



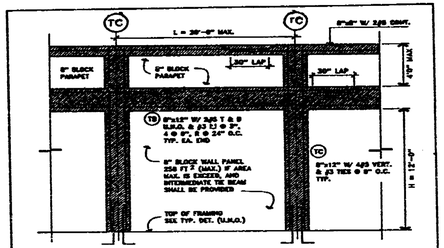
4 STEEL BEAM TO CONCRETE CONNECTION



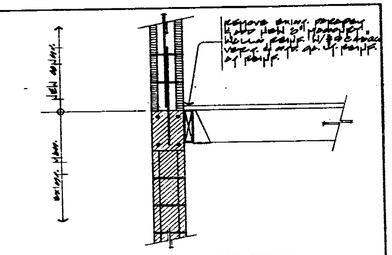
5 INTERIOR JOIST BEARING



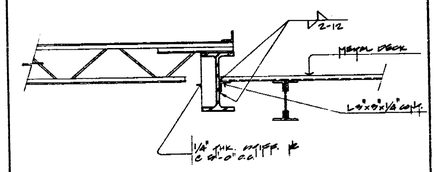
9 DECK SUPPORT AT MASONRY



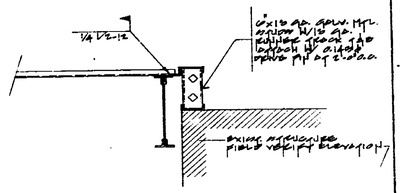
7 TYPICAL TIEBEAM / TIECOLUMN DETAIL



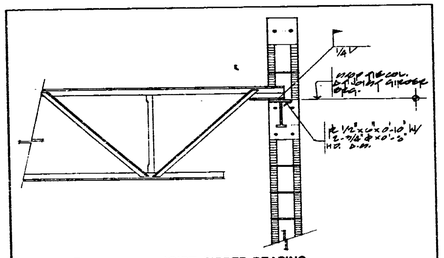
8 NEW MASONRY OVER EXIST. STRUCT.



9 SECTION AT STEP ROOF



10 SECTION AT STEP ROOF



11 JOIST GIRDER BEARING

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CITY OF MIAMI BEACH
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BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

12

CITY OF MIAMI BEACH
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S-4
8

CITY OF MIAMI BEACH
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CITY OF MIAMI BEACH
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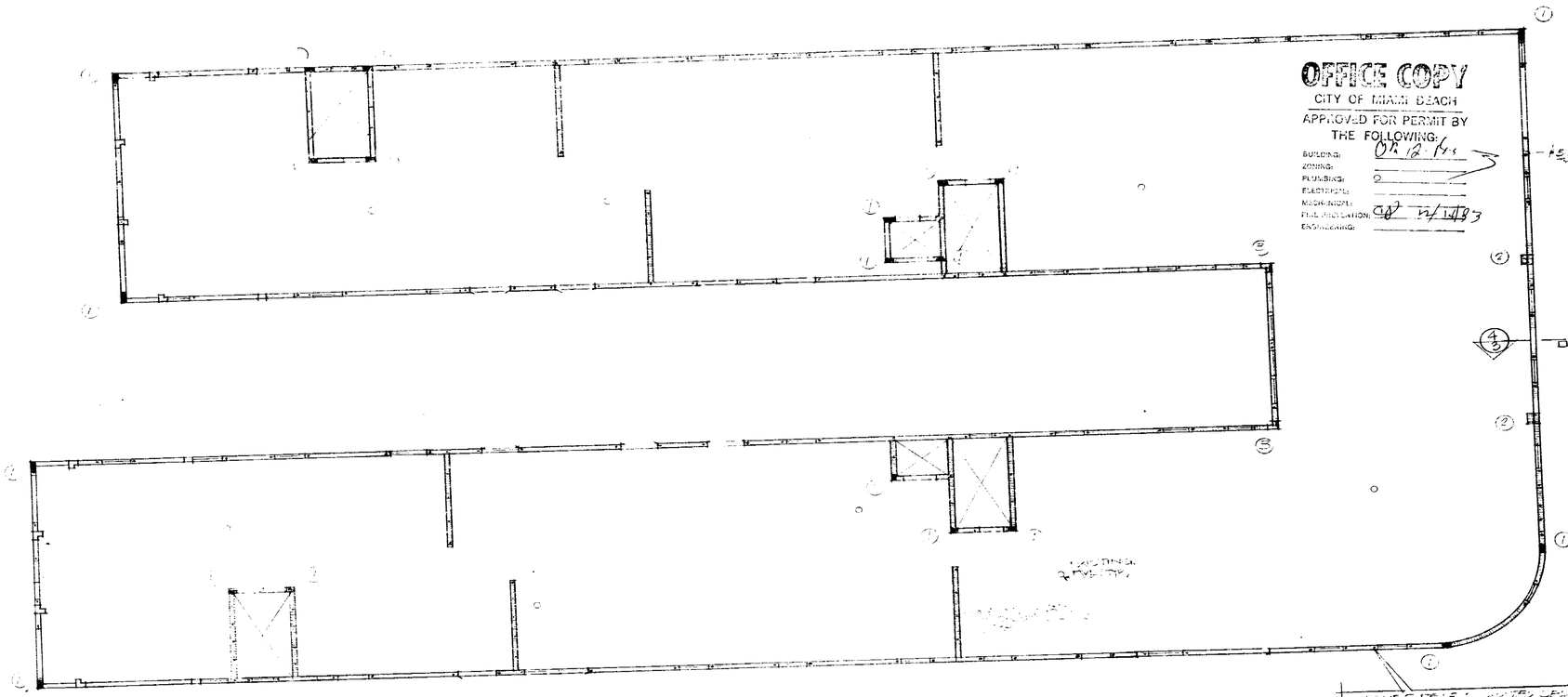
THE FOLLOWING:
BUILDING: 01-12-94
ZONING:
PLUMBING: 2
ELECTRICAL:
MECHANICAL: 12-14-93
FIRE PROTECTION:
ENGINEERING:



NEW 4th FLOOR PLAN

1/4"

CONCRETE NOTES

1. ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615 GRADE 60.
2. UNLESS OTHERWISE NOTED ALL REINFORCING FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH "MANUAL OF STANDARD PRACTICE" BY THE CONCRETE REINFORCING STEEL INSTITUTE.
3. ALL REINFORCING SPLICES SHALL BE CLASS "B" TENSION LAP UNLESS OTHERWISE NOTED.
4. ALL CONCRETE SHALL ATTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE NOTED.
5. ALL CONCRETE SHALL BE MACHINE MIXED AND SHALL CONFORM TO ASTM C94 LATEST EDITION.
6. WHERE NEW CONCRETE IS TO BE PLACED AGAINST EXISTING CONCRETE, THE EXISTING CONCRETE SURFACE SHALL BE CLEANED AND ROUGHENED WITH A CHIPPING HAMMER TO EXPOSE AGGREGATE.
7. CONCRETE COVER FOR REINFORCING STEEL, UNLESS OTHERWISE NOTED SHALL BE AS FOLLOWS:
   - CONCRETE DEPOSITED AGAINST THE GROUND: 3"
   - CONCRETE EXPOSED TO THE WEATHER OR IN CONTACT WITH THE GROUND: 2"
   - SLABS, WALLS AND JOISTS NOT EXPOSED TO THE WEATHER OR IN CONTACT WITH THE GROUND: 3/4"
   - BEAMS, COLUMNS AND STEM OF TEE'S: 1½"
   - STIRRUPS, TIES AND SPIRALS: ½" @ CENTER LINE
   - SLAB OR GRADE OVER STEEL PAN: 2"
   - SLABS COVER NON REINFORCED: 1"

MASONRY NOTES

1. GENERAL: CONFORMING TO FLORIDA MASONRY CODE AND SPECIFICATIONS AS ADOPTED BY THE CITY OF MIAMI BEACH REQUIREMENTS FOR MASONRY CONSTRUCTION, LATEST EDITION.
2. MATERIALS:
   A. ALL CONCRETE MUST BE NEW, CONFORM TO ASTM C90 LATEST EDITION AND HAVE A STRENGTH OF 1,900 PSI.
   B. MORTAR: SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C270 AND ASTM C91 LATEST EDITION.
   C. GROUT: SHALL BE OF A PROPORTION TO YIELD CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
   D. REINFORCING BARS: ASTM A15 GRADE 40.
   E. JOINT REINFORCEMENT: TO BE 9 GAUGE LADDER TYPE TRUSSROK AT 8" O.C.
3. CONSTRUCTION: METHODS OF CONSTRUCTION, INSPECTION AND TESTING SHALL BE AS SPECIFIED BY MIAMI AND AS FOLLOWS:
   A. MORTAR: ALL MASONRY UNITS SHALL BE LAID IN RUNNING BOND WITH HEAD JOINTS PROPERLY STAGGERED. THE FIRST COURSE OF MASONRY SHALL BE FULLY EMBEDDED IN MORTAR.
   B. REINFORCING: REINFORCING TO BE PLACED AS SHOWN ON DRAWINGS. ALL JOINT REINFORCING SHALL BE CONTINUOUS IN MASONRY.
4. INSPECTION:
   A. DESIGN OF THE MASONRY IS BASED UPON ENGINEERING INSPECTION OF THE REINFORCED MASONRY WORK BY A QUALIFIED INSPECTOR.
   B. IF ENGINEERING INSPECTIONS ARE NOT PLANNED FOR THIS PROJECT, NOTIFY THE PERMITTED PRIOR TO COMMENCEMENT OF WORK FOR REDUCTION OF THE REINFORCED MASONRY SYSTEM WITH A SUBSEQUENT REDUCTION IN ALLOWABLE STRESSES.

NOTE :
GENERAL CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS

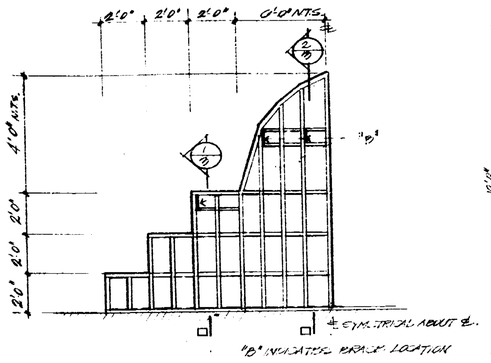
MARK	REVISION DESCRIPTION	DATE
1	ADDED NEW 4th FLOOR	11-9-93

DAVIS ENGINEERS P.A.
780 TAMIAMI CANAL ROAD
MIAMI, FLORIDA 33144
(305) 266-2566

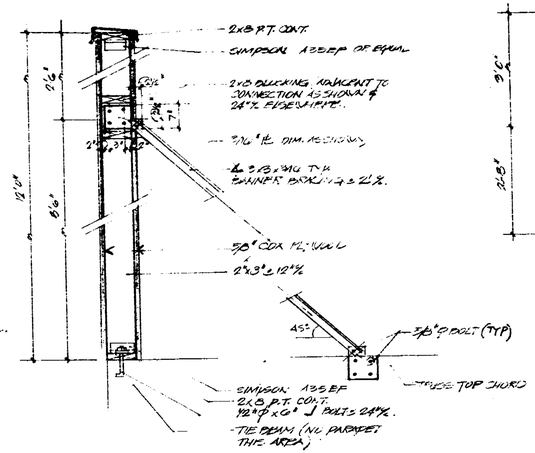
JOB No. 9318 | DATE 11-9-93 | 1/8

CRYSTAL BEACH CLUB
6085 Collins Ave.
Miami Beach, Florida

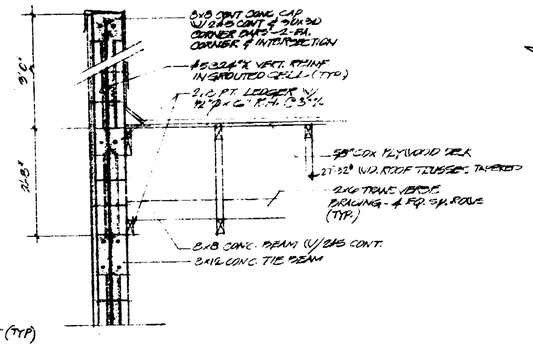
WILL STORE BY OTHERS
STL. MARKED TO PROVIDE
SHOP DRAWING
4"RVL
21"-12" TAPERED WD
TRUSS @ 8'-0" O.C.
100'-0"
85'-0"
25'-10"
37'-0"
ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"
ROOF DESIGN LOAD



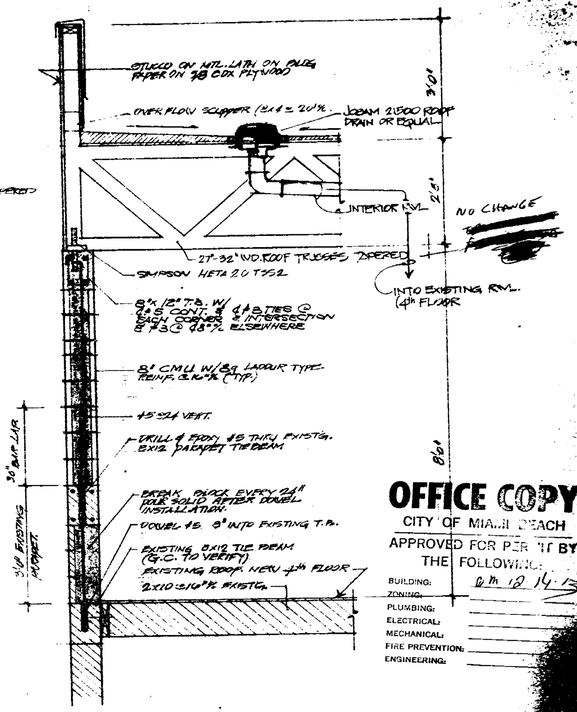
BANNER FRAMING ELEVATION 3/4"



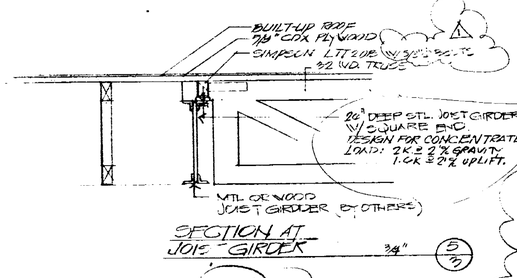
SECTION
SECTION ② SIMILAR EXCEPT DIM. 3/4" ① 3/3



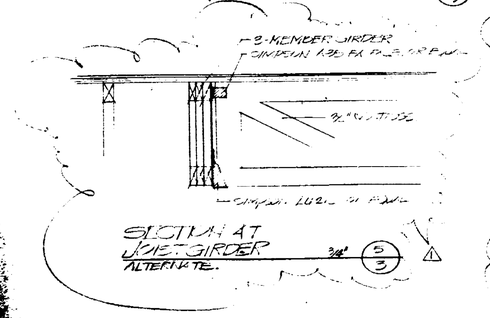
SECTION
AT MASONRY PARAPET 3/4" ③ 3/3



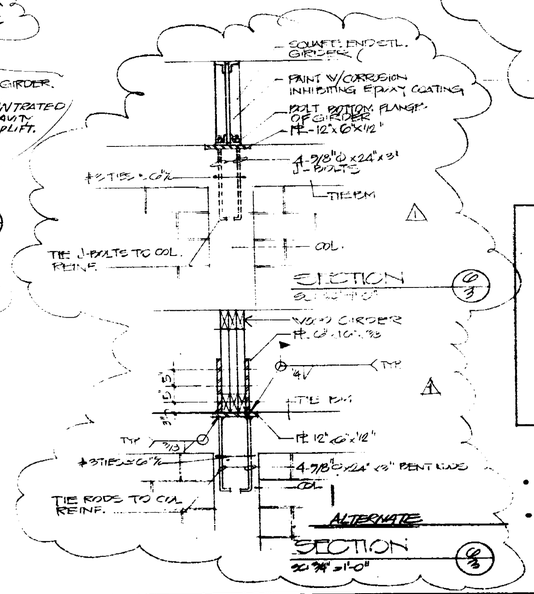
TYPICAL WALL SECTION 3/4" ④ 3/3

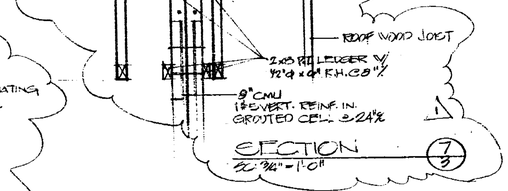


SECTION AT
JOIST GIRDER 3/4" ⑤ 3/3



SECTION AT
JOIST GIRDER
ALTERNATE. 3/4" ⑤ 3/3





SECTION
SCALE: 3/4" = 1'-0" 7/3

TIMBER NOTES

1. PRIMARY WOOD FRAMING MEMBERS SHALL BE No. 2 SOUTHERN PINE OR BETTER. SURFACED DRY, USED AT 19% MAX M.C., WITH THE FOLLOWING STRESS RATINGS UNLESS OTHERWISE NOTED:

Fb (SINGLE MEMBERS)	=	1,300	PSI
Fb (REPETITIVE MEMBERS)	=	1,400	PSI
Fv	=	90	PSI
Fc (PERPENDICULAR TO GRAIN)	=	385	PSI
E	=	1,600,000	PSI

2. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
3. METAL STRAPS, CLIPS, AND HARDWARE SHALL BE GALVANIZED TREATED.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHALL BE ASTM A-36. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A FLORIDA REGISTERED ENGINEER FOR APPROVAL. CONNECTION DETAILS TO BE SHOWN ON SHOP DRAWINGS.
2. ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE SPECIFICATIONS SET FORTH IN THE AISC MANUAL, LATEST EDITION.
3. ALL SHOP CONNECTIONS SHALL BE MADE WITH ASTM A325 BOLTS OR WELDING UNLESS ETC. ELSEWHERE, AND SHALL CONFORM TO THE SPECIFICATIONS SET FORTH IN THE AWS STRUCTURAL WELDING CODE.
4. ALL FIELD CONNECTIONS SHALL BE MADE WITH ASTM A325 BOLTS UNLESS OTHERWISE NOTED.
5. STRUCTURAL STEEL SHALL RECEIVE ONE COAT SHOP PAINT; RETOUCH AFTER ERECTION.
6. STEEL PIPE COLUMNS SHALL BE ASTM A501.
7. STRUCTURAL TUBE COLUMNS SHALL BE ASTM A500, GRADE B.

SUBMIT SHOP DRAWINGS SIGNED & SEALED BY A FLORIDA REGISTERED ENGINEER FOR:

- PRE-FABRICATED WOOD TRUSSES
- STEEL JOIST GIRDER

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CITY OF MIAMI BEACH
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BUILDING: 12/14/17
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

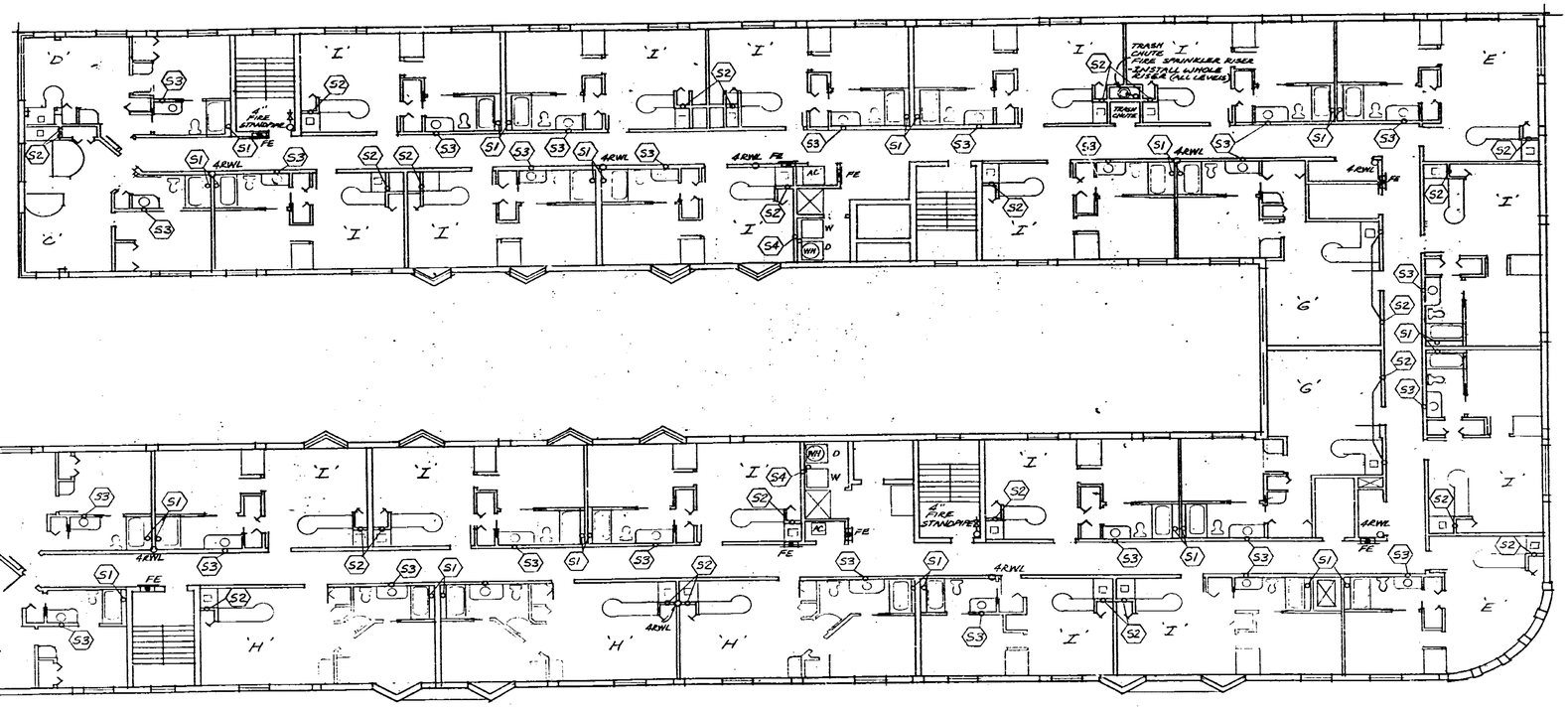
MARK	REVISION DESCRIPTION	DATE
1	AFTER BLDG. DEPT. COMMENTS	12/1/17

DAVIS ENGINEERS P.A.
780 TAMIAMI CANAL ROAD
MIAMI, FLORIDA 33144
(305) 266-2566

JOB NO. 9340 | DATE 11/9/17 | 3/3

CRYSTAL BEACH

1 of 1
12/12/17



4th FLOOR PLAN

1/8" = 1'-0"

PLUMBING

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BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

CITY OF MIAMI BEACH
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DEC 04 1992
BUILDING DEPARTMENT

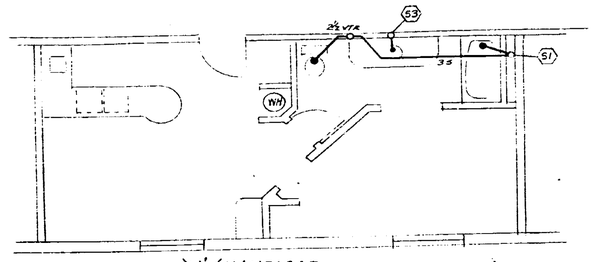
REVISIONS | BY

SPOLTER, FRECHTEL, ASSOCIATES INC.
CONSULTING ENGINEERS
5780 NORTH 29 AVENUE, HOLLYWOOD, FLORIDA 33024
DATE 11-92
JOB No 66
DRAWN 66

CRYSTAL BEACH CLUB
6905 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2750 POINCIANA BLVD. KISSIMMEE, FL 32741
407-396-4008

Date 11-92
Scale 1/8"=1'-0"
Drawn RE
Job
Sheet P-1



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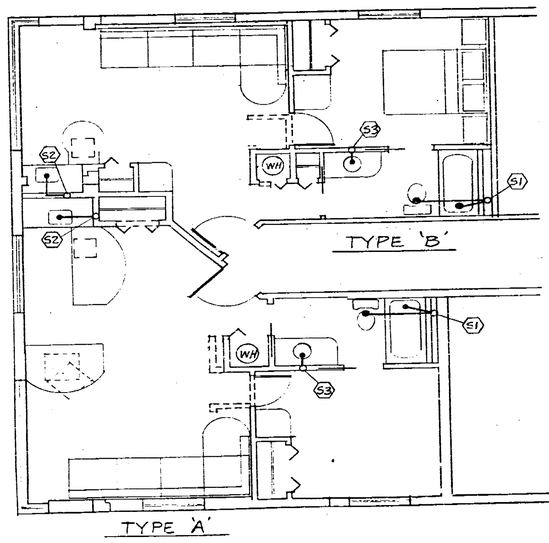

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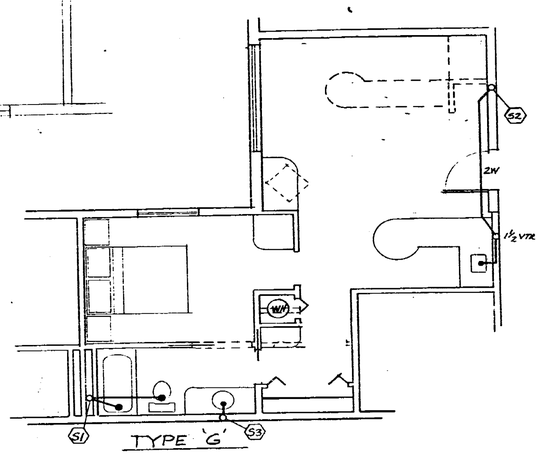

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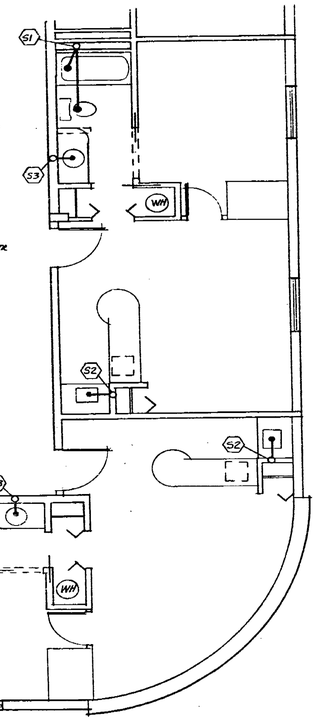

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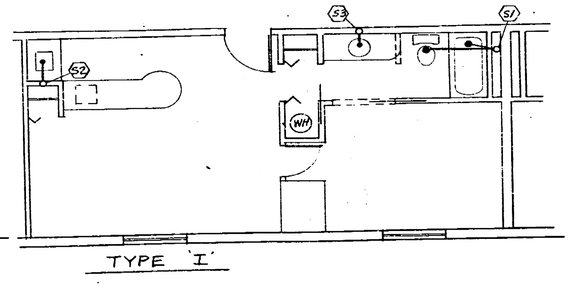
TYPE 'A'



TYPE 'I'

TYPICAL UNIT PLANS

1/4" = 1'-0"

PLUMBING

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MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

CITY OF MIAMI BEACH
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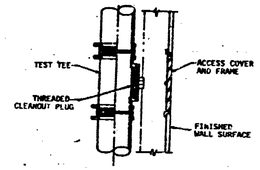
SPOLTER, FRECHTEL, ASSOCIATES INC.
CONSULTING ENGINEERS
1700 NORTH 29 AVENUE, HOLLYWOOD, FLORIDA 33020

DATE 11-92
JOB No.
DESIGN RC
DRAWN RC
CHECK

CRYSTAL BEACH CLUB
8985 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2750 PONCIANA BLDG. KISSIMMEE, FL 32741
407-396-4995

Date
Scale : 1/4"=1'-0"
Drawn RR
Job
Sheet P-2

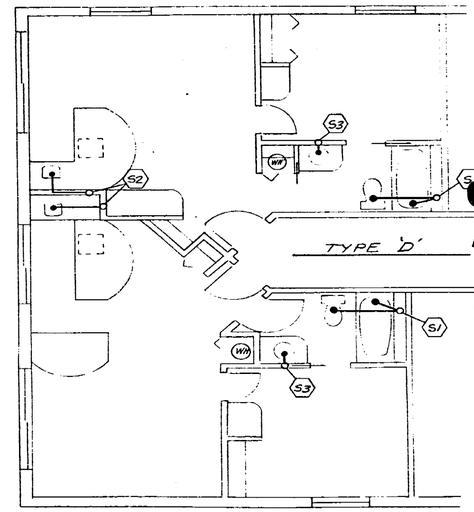


NO-HUB WITH ACCESS COVER

PLUMBING LEGEND

———	SANITARY DRAIN
- - - -	SANITARY VENT
—ST—	STORM DRAIN
———	COLD WATER
———	HOT WATER
—GR—	GREASE WASTE
—G—	GAS
F.C.O.	FLOOR CLEAN OUT
R.D.	ROOF DRAIN
V.T.R.	VENT THRU ROOF
H.B.	HOSE BIBB WITH BACKFLOW PREVENTER
R.W.L.	RAIN WATER LEADER
F.U.	FIXTURE UNIT
F.D.	FLOOR DRAIN
—A—	COMPRESSED AIR
F.E.	FIRE EXTINGUISHER

NOTE: ALL ITEMS MAY NOT APPEAR ON DRAWINGS



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TYPICAL UNIT PLANS
SCALE: 1/4" = 1'-0"

PLUMBING

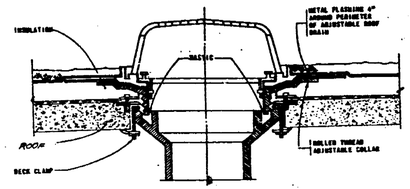
REVISIONS	BY

SPOLTER, FRECHTEL, ASSOCIATES INC.
CONSULTING ENGINEERS
5760 NORTH 29 AVENUE, HOLLYWOOD, FLORIDA 33019
DATE 11-12
JOB NO
DRAWN

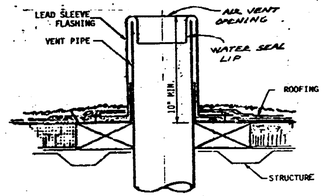
CRYSTAL BEACH CLUB
6985 COLLINS AVE. - MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2758 POINCIANA BLVD.
407-396-4900 KISSIMMEE, FL 32741

Date 11-12
Scale : 1/4"=1'-0"
Drawn RC
Job
Sheet
Of P-3 Sheets

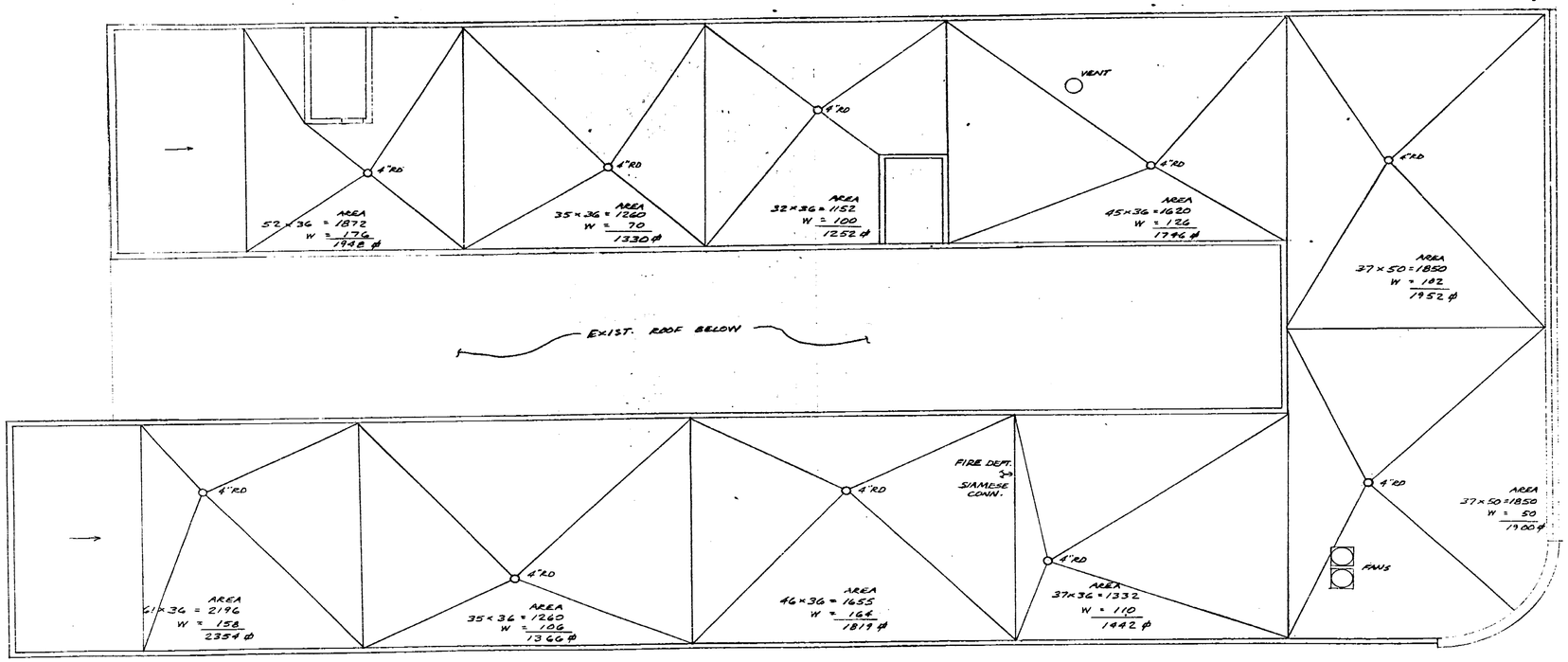


ROOF DRAIN DETAIL
N.T.S.



NOTE: MAINTAIN MIN. 10'-0" FROM ALL AIR INTAKES

VENT STACK FLASHING DETAIL
N.T.S.



ROOF PLAN

PLUMBING

NOTE: SLOPE ALL INSULATION 1/8"/FT.

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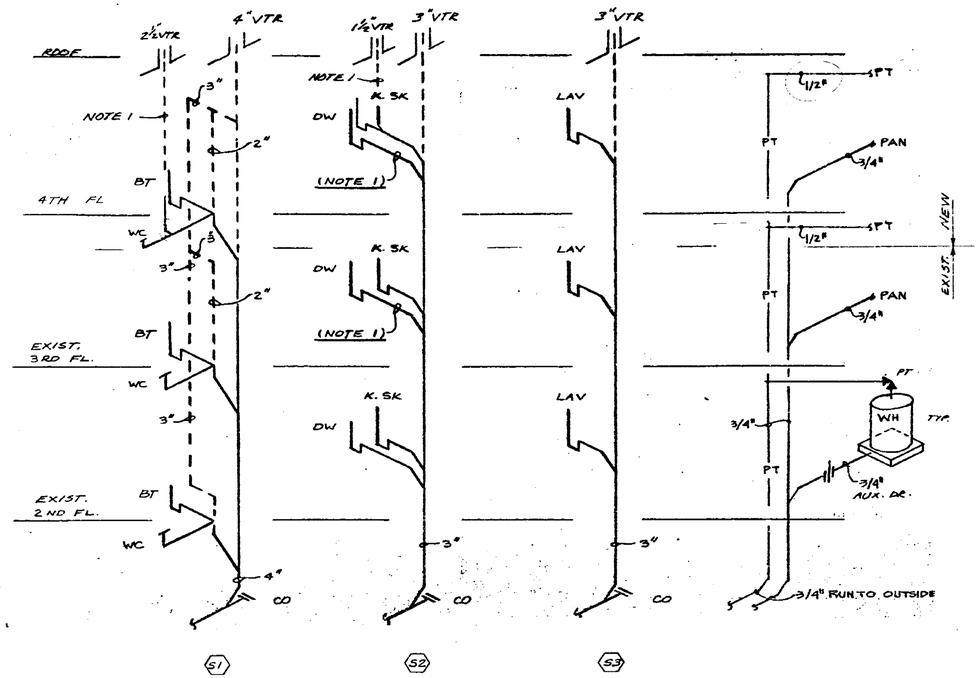
CONSULTING ENGINEERS
2100 SOUTH 83 AVENUE, HOLLYWOOD, FLORIDA 33023
DATE 11-92
JOB NO. 92-
DRAWN BY SS
CHECKED BY SS

CRYSTAL BEACH CLUB
6985 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2150 POINCIANA BLDG. KISSIMMEE, FL 32741
407-396-1900

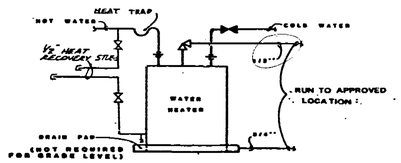
Date 11-92
Scale 3/32"=1'-0"
Drawn RC
Job
Sheet P-4



NOTE1: PROVIDE VENT IF FIX'R MORE THAN 5' FROM STACK

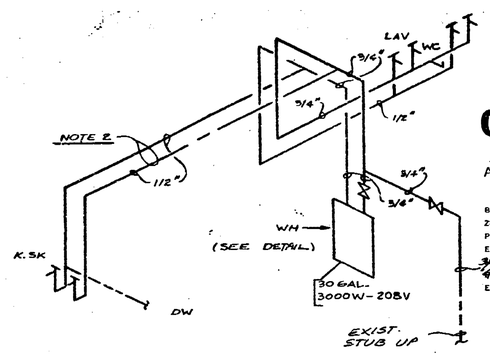
SANITARY RISER DIAGRAMS

NTS



TYPICAL WATER HEATER DETAIL

NTS



(1) APTS = 9 FU

TYPICAL APARTMENT WATER RISER

NTS

PLUMBING NOTES

1. CONTRACTOR SHALL FURNISH LABOR, MATERIALS AND EQUIPMENT SHOWN OR INDICATED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH THESE DRAWINGS AND ALL APPLICABLE CODES.
2. SANITARY WASTE/VENT PIPES AND FITTINGS SHALL BE CAST IRON OR PVC.
3. PROVIDE COMPLETE ACCESS TO ALL SYSTEMS. LOCATE CLEANOUTS ON WALLS AND/OR FLOORS, AS NECESSARY, FOR ACCESS AND EASE OF USE. PROVIDE ACCESS PANELS WHERE NECESSARY FOR THE WATER DISTRIBUTION SYSTEM.
4. HOT AND COLD WATER LINES SHALL BE COPPER, USING TYPE "K" FOR UNDERGROUND AND TYPE "L" ABOVE GROUND. PROVIDE DI-ELECTRIC COUPLINGS, AS REQUIRED, FOR CONNECTION TO DIFFERENT MATERIALS.
5. ALL EXPOSED PIPING AT FIXTURES AND EQUIPMENT SHALL BE CHROME-PLATED. PROVIDE CHROME-PLATED ESCUTCHEONS AS REQUIRED.
6. INSULATE ALL HOT WATER LINES W/1/2" FIBERGLAS & SELF-SEALING UNIVERSAL JACKET.
7. ALL DRAIN LINES SHALL BE PITCHED 1/8" PER FOOT UNLESS NOTED OTHERWISE.
8. UNDERGROUND AND OUTSIDE METAL PIPING SHALL BE PROTECTED WITH A COAT OF BITUMINOUS COMPOUND BEFORE COVERING. ("BITUMASTIC" OR EQUAL)
9. FIXTURES SHALL BE WATER CONSERVING TYPE AS PER FS.553.14. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL EQUIPMENT AND THE CORRESPONDING SHOP DRAWINGS BEFORE ROUGH-IN.
10. CONTRACTOR TO COORDINATE HIS WORK WITH ALL TRADES IN ORDER TO AVOID CONFLICTS.
11. SEE RISER DIAGRAM FOR PIPE SIZES NOT SHOWN ON THE FLOOR PLANS.
12. PROVIDE A SHUT-OFF AND VACUUM BREAKER TO ALL HOSE BIBBS, FAUCETS WITH HOSE-END CONNECTIONS AND WATER HEATERS.
13. PROVIDE TRAP PRIMERS ON ALL TOILET ROOM FLOOR DRAINS.
14. ALL FIXTURE GROUPS TO BE PROTECTED AGAINST WATER HAMMER WITH AIR CHAMBERS OR SHOCK ABSORBERS.
15. PROVIDE CONTROL VALVES TO ALL MAINS ENTERING THE BUILDING, RISERS, BRANCHES OR GROUP OF FIXTURES.
16. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY MINOR DETAIL. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE SYSTEM AND IN COMPLIANCE WITH THE CODES.
17. SIZE AND LOCATION OF EXISTING WATER AND SANITARY LINES SHOWN ON THESE PLANS WERE OBTAINED FROM EXISTING PLANS OF THE BUILDINGS. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND LOCATIONS AS SHOWN PRIOR TO PROCEEDING WITH THE WORK. IF CONDITIONS ARE FOUND TO BE OTHERWISE, NOTIFY THE ARCHITECT/ENGINEER.
18. CONTRACTOR TO PROVIDE ALL REQUIRED ITEMS FOR EQUIPMENT TO BE IN PROPER WORKING ORDER. IF ANY ITEMS ARE MISSING, HE SHALL NOTIFY THE ARCHITECT/ENGINEER BEFORE COMMENCING WORK. AFTER WORK'S COMPLETION, NO ADDITIONAL PAYMENTS SHALL BE MADE FOR THE CONTRACTOR'S FAILURE TO HAVE SO NOTIFIED THE ARCHITECT/ENGINEER.

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REVISIONS	BY

CRYSTAL BEACH CLUB
8085 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2750 POINCIANA BLDG. KISSIMMEE, FL 32741
407-396-4606

Date
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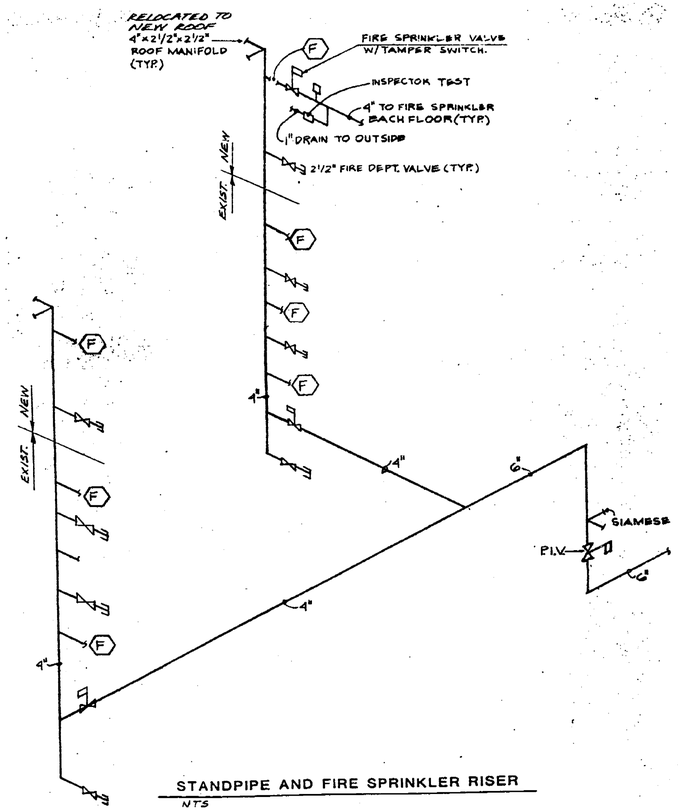
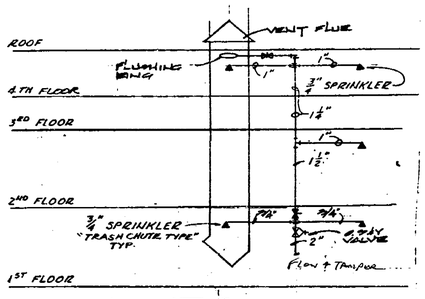


STANDPIPE AND FIRE SPRINKLER RISER

NTS

NOTE : CONTRACTOR TO PROVIDE SYSTEM FOR WHOLE CHUTE



TRASH CHUTE SPRINKLER RISER DIAGRAM

NOT TO SCALE

FIRE SYSTEM NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN THE SYSTEM IN COMPLIANCE WITH ALL GOVERNING AGENCIES' CRITERIA AND TO VERIFY THE PROPER WATER PRESSURES AND QUANTITIES TO INSURE THE PROPER OPERATION OF THE SYSTEM.
2. CONTRACTOR SHALL FURNISH SHOP DRAWINGS TO THE NECESSARY AGENCIES FOR APPROVAL WITHIN 45 DAYS OF THE AWARD OF BID. THE DESIGN SHALL BE HYDRAULICALLY PREPARED WITH FULL SIGNED AND SEALED DRAWINGS INDICATING ALL CALCULATION CRITERIA, PIPING ROUTING, TEST POINT(S), DRAIN VALVE(S), MOUNTING HEIGHTS, FIRE DEPARTMENT CONNECTION AND OTHER NECESSARY INFORMATION FOR APPROVAL. IT SHALL BE THE SPRINKLER CONTRACTOR'S RESPONSIBILITY TO REVIEW PLANS FOR OTHER TRADES TO INSURE CLEARANCE FOR HIS WORK. X-MAS FOR ALL STRADDLE
3. THE CONTRACTOR SHALL FURNISH AND INSTALL A HYDRAULICALLY DESIGNED, AUTOMATIC FIRE SYSTEM COMPLETE IN ALL RESPECTS AND CONFORMING TO ALL CODE REQUIREMENTS AND ALL THE NECESSARY SUBMITTALS TO OBTAIN FIRE MARSHAL APPROVALS. DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED ENGINEER.
4. CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT AND DESIGN EXPERTISE TO DESIGN, CONSTRUCT AND INSTALL THE PUMPS, VALVES, SWITCHES, CONTROLS, TESTING FACILITIES, ETC. TO ACCOMPLISH THE REQUIRED BUILDING COVERAGE.
5. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS. PIPE AND FITTINGS SHALL BE AS PER N.F.P.A. NO. 13.
6. EXECUTION OF WORK: DRAWINGS ARE SCHEMATIC ONLY AND INDICATE A GENERAL ARRANGEMENT OF THE SYSTEM. THE CONTRACTOR SHALL INSTALL A SYSTEM THAT MEETS WITH THE APPROVAL OF ALL UNDERWRITERS AND LOCAL AUTHORITIES. INSTALLATION OF HANGERS AND SUPPORTS SHALL BE AS REQUIRED IN N.F.P.A. NO. 13. TESTING SHALL BE AS REQUIRED BY LOCAL AUTHORITIES.
7. UPON COMPLETION OF THE SYSTEM, THE CONTRACTOR SHALL TEST ALL PIPING HYDROSTATICALLY AT 200 P.S.I. FOR TWO HOURS.
8. THE CONTRACTOR SHALL PROVIDE ALL ACCESS PANELS FOR VALVES, SWITCHES, ETC. AND SHALL COORDINATE LOCATION WITH THE ARCHITECTURAL PLANS.
9. THE CONTRACTOR SHALL PAY ALL FEES, INSPECTION AND CONNECTION CHARGES REQUIRED.
10. EXACT LOCATION OF ALL EQUIPMENT HEADS SHALL BE COORDINATED IN THE FIELD WITH OTHER TRADES.
11. CONTRACTOR SHALL GUARANTEE ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE.
12. PLANS AND SPECIFICATIONS FOR THE SYSTEM WHICH HAVE BEEN APPROVED BY THE FIRE MARSHAL SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE.

FIRE SPRINKLER NOTES

1. SPRINKLER SYSTEMS SHALL BE DESIGNED FOR A MAXIMUM SPACING OF 130 SQUARE FEET PER SPRINKLER IN THE SALES AREA AND IN STOCK AREAS WITH A CEILING HEIGHT OF 14'-0" OR LESS.
2. MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS. SPRINKLER HEADS SHALL BE PENDANT TYPE, CHROME FINISH WITH ONLY THE PENDANT AND ESCUTCHEON EXPOSED BELOW THE FINISHED CEILING. PIPE AND FITTINGS: AS PER NFPA NO. 13.
3. WHEN SUSPENDED CEILINGS ARE INSTALLED AT 14'-0" OR LESS, A CLEARANCE OF 18" SHALL BE MAINTAINED BETWEEN THE SPRINKLER HEAD AND THE TOP OF STOCK OR DISPLAY FIXTURES.
4. EXECUTION OF WORK: DRAWINGS ARE SCHEMATIC ONLY AND INDICATE A GENERAL ARRANGEMENT OF THE SYSTEM. THE GENERAL CONTRACTOR SHALL INSTALL A SYSTEM WHICH MEETS WITH THE APPROVAL OF ALL UNDERWRITERS AND LOCAL AUTHORITIES. INSTALLATION OF HANGERS AND SUPPORTS SHALL BE AS REQUIRED IN N.F.P.A. NO. 13. TESTING TO BE AS REQUIRED BY LOCAL AUTHORITIES.
5. THE CONTRACTOR SHALL PROVIDE DEFLECTORS TO KEEP THE SYSTEM FROM DISCHARGING ON ELECTRICAL PANELS AND EQUIPMENT.
6. PROPER CLEARANCES MUST BE PROVIDED BETWEEN SPRINKLER HEADS & FALSE CEILING BEAMS.
7. N.F.P.A. PAMPHLET NO. 13 SHALL BE THE MINIMUM REQUIREMENT FOR ALL SPRINKLER WORK.
8. UPON COMPLETION OF THE SPRINKLER SYSTEM, THE SPRINKLER CONTRACTOR SHALL TEST ALL PIPING HYDROSTATICALLY AT 200 P.S.I. FOR TWO HOURS.
9. TRUSSES TO BE SPRINKLERED ARCHES

FIRE EXTINGUISHER NOTES

1. PORTABLE FIRE EXTINGUISHERS OF THE CORRECT CAPACITY AND RATING SHALL BE INSTALLED AS REQUIRED BY N.F.P.A. PAMPHLET NO. 10. EACH FIRE EXTINGUISHER MUST HAVE AT LEAST A 2A-BC RATING.
2. PROVIDE ONE FIRE EXTINGUISHER FOR EACH 2,500 SQUARE FEET.

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FIRE PREVENTION:
ENGINEERING:

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REVISIONS	BY

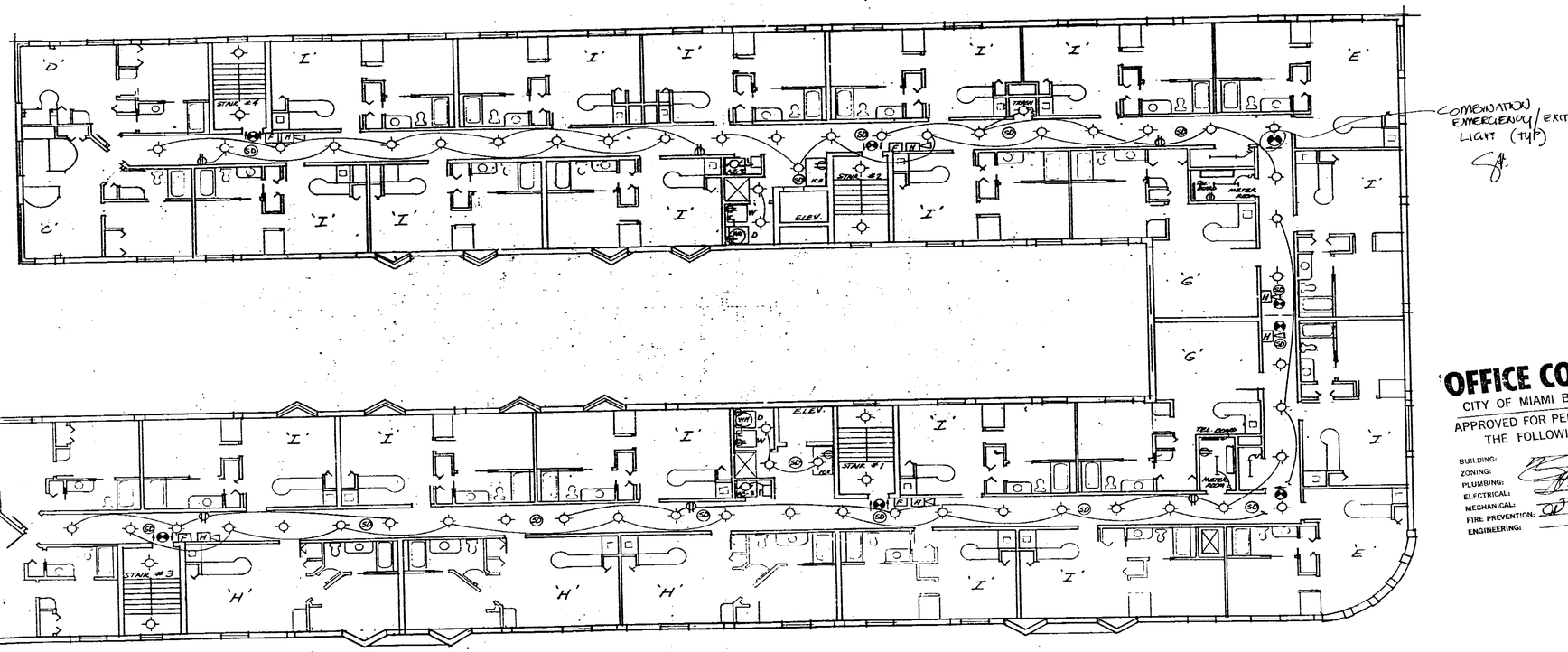
STOLTER, FRECHTEL, ASSOCIATES INC
CONSULTING ENGINEERS
2140 NORTH 21 AVENUE, HOLLYWOOD, FLA. 33020

DATE 11-92
JOB NO. 92-
SHEET NO. E-1

CRYSTAL BEACH CLUB
6085 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
275 POINCIANA BLDG. KISSIMMEE, FL 32741
407-396-4606

Date	11 - 92
Scale	NTS
Drawn	RR
Job	
Sheet	P-6
Of	Sheets



4th FLOOR PLAN

1/8"-1'-0"

ELECTRICAL

REVISIONS | BY

SPOLTER, FRECHTEL, ASSOCIATES INC.
CONSULTING ENGINEERS
2700 BOSTON RD AVENUE, HOLLYWOOD, FLORIDA 33020

DATE 11-12
JOB No
DESIGN
DRAWN

CRYSTAL BEACH CLUB
6985 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2758 JOINCIANA BLDG. KISSIMMEE, FL 32741
407-396-1696

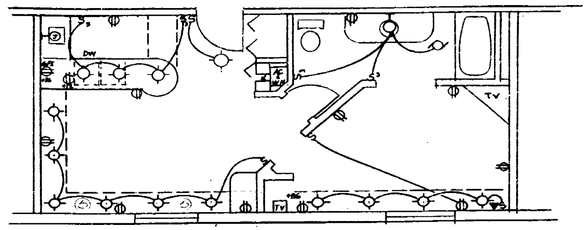
Date 11 - 92
Scale 1/8"=1'-0"
Drawn AE
Job
Sheet E-1
Of Sheets

ELECTRICAL LEGEND

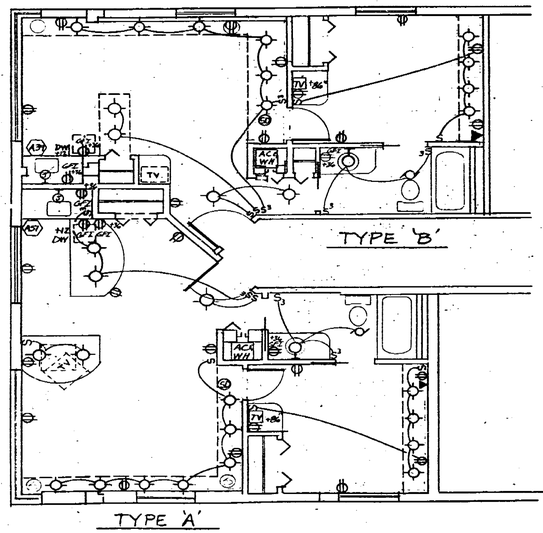
- LIGHTING FIXTURE DESIGNATION - LETTER DENOTES FIXTURE TYPE
- CEILING OUTLET
- FLUORESCENT LIGHTING FIXTURE, RECESSED OR SURFACE AS SHOWN IN SCHEDULE
- EXIT LIGHT CEILING OR WALL MOUNTED, ARROW INDICATES DIRECTION OF EGRESS
- SINGLE POLE TOGGLE SWITCH, MOUNTING HEIGHT = 48" ABOVE FINISHED FLOOR
- THREE-WAY SWITCH, MOUNTING HEIGHT = 48" ABOVE FINISHED FLOOR
- SWITCH WITH DIMMER
- MOTOR STARTER
- 3 WIRE GROUNDED DUPLEX RECEPT. M.H. = 18" A.F.F. UNLESS OTHERWISE NOTED
- SINGLE PURPOSE RECEPTACLE
- PANELBOARD. MOUNTED - SEE PANEL SCHEDULE
- JUNCTION BOX, CEILING OR FLOOR MOUNTED
- JUNCTION BOX, WALL MOUNTED, MOUNTING HEIGHT AS INDICATED
- TELEPHONE OUTLET, M.H. = 18" OR AS INDICATED
- HEAT LAMP, LIGHT
- THERMOSTAT, M.H. = 48" ABOVE FINISHED FLOOR
- BUZZER OUTLET, M.H. = 48" ABOVE FINISHED FLOOR
- DISCONNECT SWITCH, FUSED OR NON-FUSED AS NOTED OR REQUIRED
- MOTOR (SIZE AS INDICATED IN PLANS)
- CEILING FAN
- A.F.F. ABOVE FINISHED FLOOR
- W.P. WEATHERPROOF
- G.F.I. GROUND FAULT INTERRUPTER
- M.H. MOUNTING HEIGHT (48")
- V.P. VAPOR PROOF
- FLOOR OUTLET SINGLE PURPOSE RECEPTACLE (ON PEDESTAL FLOOR BOX)
- FLOOR TELEPHONE OUTLET
- REFERENCE NOTE (SEE NOTE NUMBER INSCRIBED.)
- FIRE ALARM SYSTEM MANUAL PULL STATION (48" AFF)
- FIRE ALARM SYSTEM HORN 7'-0" AFF
- FIRE ALARM SYSTEM FIRE LIGHT
- FIRE ALARM SYSTEM DUCT SMOKE DETECTOR

ALL ITEMS MAY NOT APPEAR ON THE PLANS.

(2) CEILING MOUNTED SPEAKERS



TYPE 'H' HANDICAP



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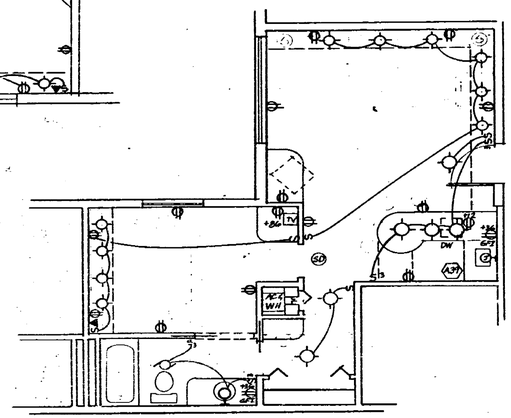

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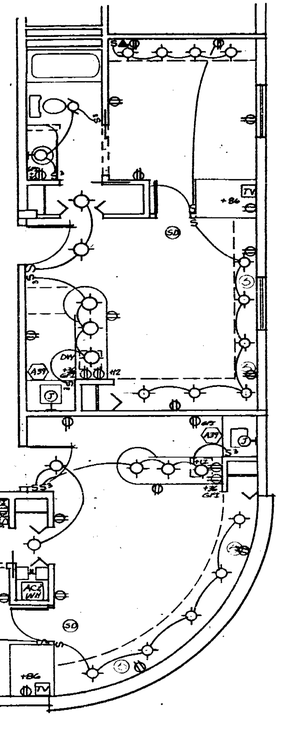

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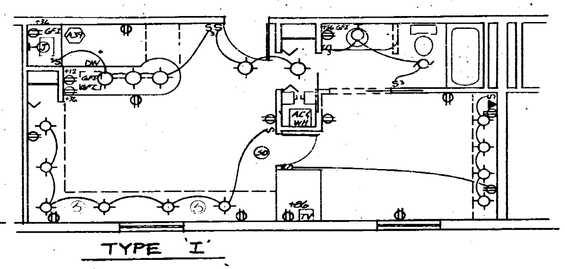
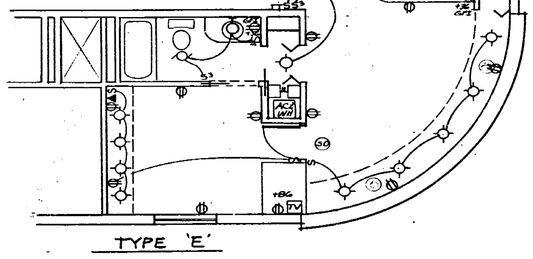


TYPE 'I'



TYPE 'E'

TYPICAL UNIT PLANS
1/4"=1'-0"

ELECTRICAL

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

CITY OF MIAMI BEACH
RECEIVED
DEC 04 1992
BUILDING DEPARTMENT

REVISIONS	BY

SPOLTER, PRESTEL, ASSOCIATES, INC
CONSULTING ENGINEERS
7100 NORTH KENDALL DRIVE, MIAMI, FLORIDA 33156

CRYSTAL BEACH CLUB
9985 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2750 POINCIANA BLDG.
407-396-4966 KISSIMMEE, FL 32741

Date 11-92
Scale 1/4"=1'-0"
By JR

E-2

24

30

TYPE 'D'

TYPE 'C'

TYPICAL UNIT PLANS
SCALE: 1/4" = 1'-0"

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MECHANICAL:
FIRE PREVENTION:
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ELECTRICAL

REVISIONS	BY

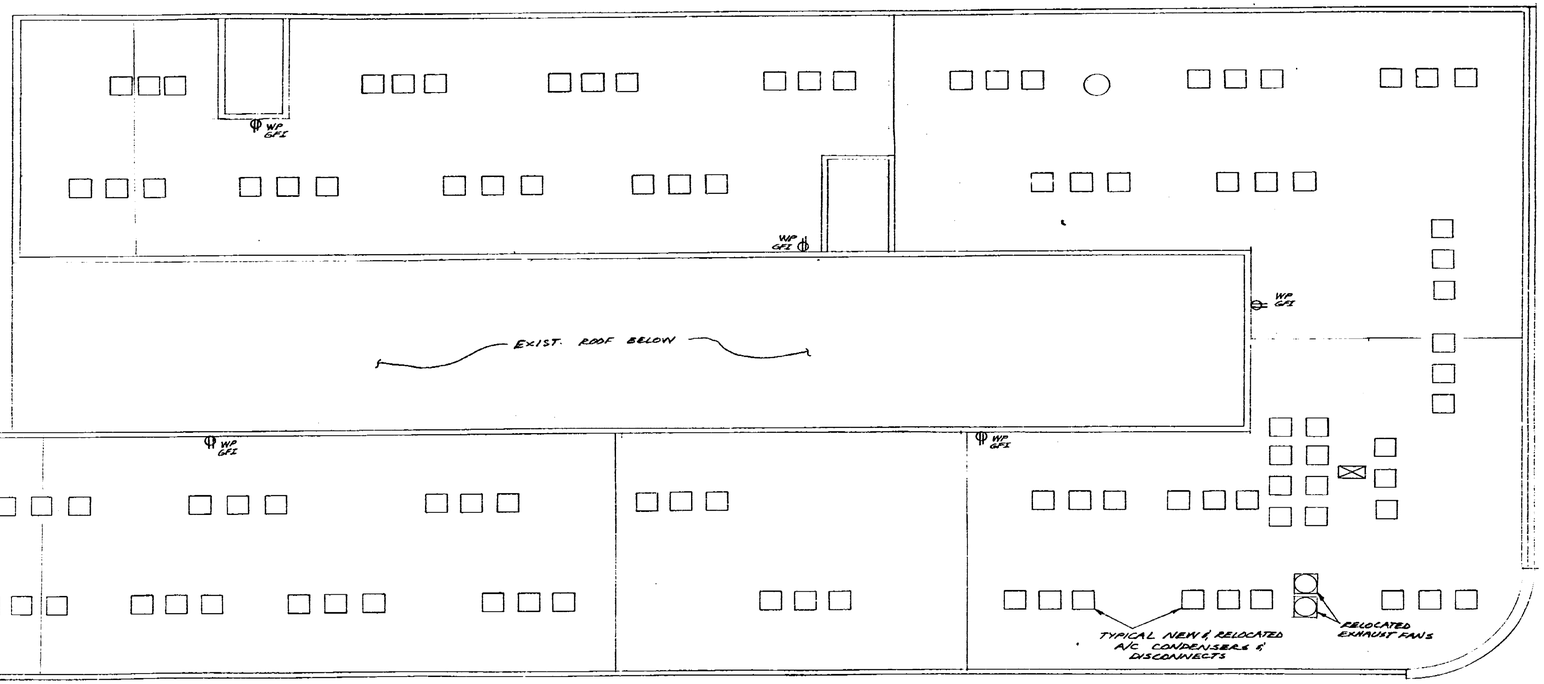
SPOLTER, FRECHTEL, ASSOCIATES INC.
CONSULTING ENGINEERS
8700 SUNSET DRIVE, MIAMI, FLORIDA 33173

DATE 11/12
JOB No
DESIGN RK
DRAWN RK

CRYSTAL BEACH CLUB
9065 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST, ARCHITECT
FIRST LEISURE CORP.
2734 POINCIANA BLVD. KISSIMMEE, FL 32741
407-396-4900

Date 11-12
Scale 1/4"=1'-0"
Drawn RK
Job
Sheet E-3 of Sheets



ROOF PLAN

ELECTRICAL

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

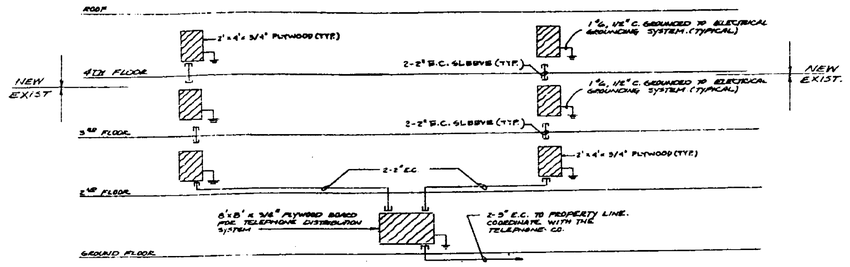
REVISIONS	BY

SKELTON, PREWITT, ASSOCIATES, INC.
ARCHITECTURE AND PLANNING
11-10-92 RK RC

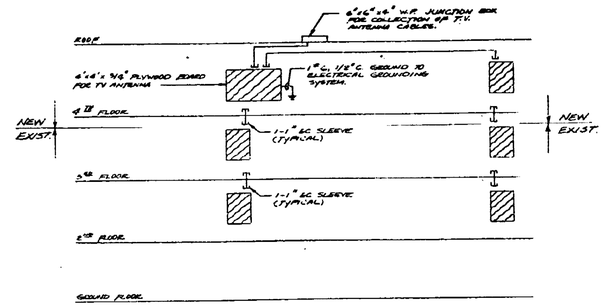
CRYSTAL BEACH CLUB
6965 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST, ARCHITECT
FIRST LEISURE CORP.
2150 PONCIANA BLVD. KISSIMMEE, FL 32741
407-396-4900

Date 11-92
Scale 1/8"=1'-0"
Drawn RR
Job
Sheet E-4



TELEPHONE RISER DIAGRAM



TV ANTENNA RISER DIAGRAM

FIRE ALARM SYSTEM SPECIFICATIONS

CONTRACTOR SHALL FIELD VERIFY EXISTING PANEL OPERATION.

THE FIRE ALARM SYSTEM SHALL BE COMPLETE, NON-CODED, SUPERVISED AND WITH ANNUNCIATION AS INDICATED. THE SYSTEM SHALL HAVE A TROUBLE INDICATION SIGNAL AND SHALL CONTAIN BATTERY PACK BACK-UP AND CHARGER. THE FIRE ALARM CONTROL AND ANNUNCIATION PANEL TO BE LOCATED BEHIND A LOCKED GLASS DOOR.

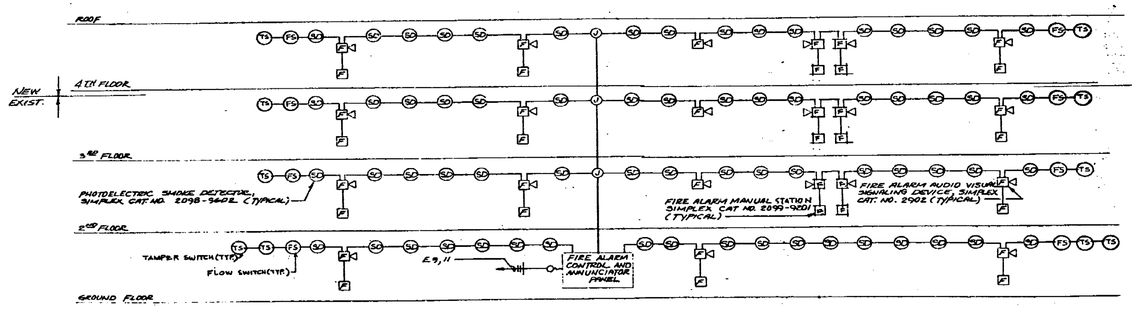
MANUAL ACTUATION OF ANY FIRE ALARM STATION OR AUTOMATIC ACTIVATION OF THE PHOTOELECTRIC SMOKE DETECTOR OR FLOW SWITCH SHALL CAUSE AN ALARM SIGNAL TO BE TRANSMITTED TO THE FIRE ALARM ZONE INSTANTANEOUSLY TO SOUND THE ALARM HORNS THROUGHOUT THE BUILDING & ENERGIZE THE VISUAL ALARM SIGNALS.

THE FIRE ALARM SYSTEM SHALL BE CONNECTED TO THE TELEPHONE SYSTEM FOR REMOTE SIGNALING. (ONE SIGNAL FOR ALARM AND ONE SIGNAL FOR TROUBLE).

THE FIRE ALARM CONTROL PANEL SHALL BE SIMPLEX 2001-8001. THE FIRE ALARM ANNUNCIATOR PANEL SHALL BE A SIMPLEX 4308. THE ANNUNCIATOR PANEL SHALL HAVE FIVE ZONES: GROUND FLOOR, SECOND FLOOR, THIRD FLOOR AND NEW FOURTH FLOOR AND ROOF.

THE SYSTEM WIRING SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WIRING DIAGRAM, AS REQUIRED FOR PROPER OPERATION OF THE FIRE ALARM SYSTEM. THE MINIMUM SIZE WIRE SHALL BE No. 14 AWG. THE SYSTEM SHALL BE INSTALLED IN COMPLIANCE WITH THE NFPA STANDARDS.

THE MINIMUM SIZE CONDUIT SHALL BE 1/2". THE MAXIMUM CONDUIT FILL SHALL BE 40 PERCENT.



FIRE ALARM SYSTEM RISER DIAGRAM

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CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:
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PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

CITY OF MIAMI BEACH
RECEIVED
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BUILDING DEPARTMENT

REVISIONS	BY

11-12 JLF JLF

CRYSTAL BEACH CLUB
8985 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2750 POINCIANA BLVD. KISSIMMEE, FL 32741
407-396-1000

Date 11-92
Scale N.T.S
Drawn RR
Job
Sheet E-6 Of Sheets

REVISIONS	BY

EXISTING DISTRIBUTION PANEL

TYPE: SQUARE D
MOUNTING: SURFACE
A/C:

" MDP "
(METER)

MAINS: 1600 A.M.L.O.
BUS AMPS: 1600 A.
VOLTAGE: 120/240/1Φ/3W.

CKT.	LOAD DESCRIPTION	DEMAND KVA.	DEMAND AMP	CIRCUIT BREAKER	FEEDER
1	2ND. FL. METER CENTER	100.00	280	3P-400A	4#600 CU. THW-3-½"C.
2	" "				
3	3RD. FL.				
4	" "				
5	4TH. FL. (NEW)				
6	" "				
7	SPACE				
	TOTAL				

EXISTING CALCULATIONS INCLUDING 4TH. FL. METER CENTER
DEMAND LOAD: 1,436,766 VA x 23% (NEC. 230-32) = 330456 VA. AT 240V. 1Φ = 1377 A.
BRANCH FEEDER DEMAND LOAD: 239461 VA x 40% (NEC. 230-32) = 95785 VA AT 240V. 1Φ = 399 A.

EXISTING DISTRIBUTION PANEL

TYPE: SQUARE D
MOUNTING: SURFACE
A/C:

" MDP "
(METER)

MAINS: 1600 A.M.L.O.
BUS AMPS: 1600 A.
VOLTAGE: 120/240/1Φ/3W.

CKT.	LOAD DESCRIPTION	DEMAND KVA.	DEMAND AMP	CIRCUIT BREAKER	FEEDER
1	2ND. FL. METER CENTER	100.00	280	3P-400A	4#600 CU. THW-3-½"C.
2	" "				
3	3RD. FL.				
4	" "				
5	4TH. FL. (NEW)				
6	" "				
7	SPACE				
	TOTAL				

ΦA	ΦB	ΦC	
72 A	72 A	72 A	- ELEV. 1
72 A	72 A	72 A	- ELEV. 2
71 A	-	71 A	- PANEL 'E'
33 A	-	33 A	- SPARES
248 A	144 A	248 A	- PANEL 'EDP' TOTAL

ΦA	ΦB (HIGH)	ΦC	
248 A	144 A	248 A	- PANEL 'EDP'
1233 A	-	1233 A	- PANEL 'HDP'
1481 A	144 A	1481 A	- TOTAL

NOTE: EXISTING CALCULATIONS (INCLUDING 4TH FLOOR)

ELECTRICAL PANEL: "HE" NEW PANEL — PNL'S HE & HD ARE EXISTING — 11/05/92

SERVICE VOLTAGE: 120 / 240 1 PHASE 3 WIRE — PANEL RATING (AMPS): 400 — LOCATION: ELECT RM

MAIN DISC (DIB): 400 AMPS 2 POLE PROJECT 50 FT: 1000 — ENCLOSURE: NEMA 1 SURFACE MOUNTED

CK	DESCRIPTION	TRIP	VOLTS	KVA	AMPS	POLE	WIRE	COND
1	LIGHTING	20	120	1.2	10.0	1	12	1/2
3	LIGHTING	20	120	1.2	10.0	1	12	1/2
5	LIGHTING	20	120	1.2	10.0	1	12	1/2
7	LIGHTING	20	120	1.2	10.0	1	12	1/2
9	LIGHTING	20	120	1.2	10.0	1	12	1/2
11	DRYER	30	240	5.0	20.8	2	10	1/2
13	DRYER							
15	VENDING	20	120	1.5	12.5	1	12	1/2
17	VENDING	20	120	1.5	12.5	1	12	1/2
19	AIR HANDLER	25	240	5.5	22.9	2	10	1/2
21	AIR HANDLER							
23	AIR COND	20	240	4.5	19.9	2	14	1/2
25	AIR COND							
27	WATER HEATER	25	240	4.5	18.8	2	10	1/2
29	WATER HEATER							
31	DRYER	30	240	5.8	20.8	2	10	1/2
33	DRYER							
35	SPARE	20	120	1.5	12.5	1		
37	SPARE	20	120	1.5	12.5	1		
39	SPACE							
41	SPACE							

SERVICE LOAD CALCULATIONS

LOAD	LINE A	LINE C	NEUTRAL
AIR COND	3000	3000	0
AIR HANDLER	11000	11000	0
DRYER	10000	10000	10000
LIGHTING	12000	12000	12000
SPARE	4500	4500	4500
BASE MACHINE	1500	1500	1500
WATER HEATER	9000	9000	0
ICE MACH	3000	3000	3000
VENDING	3000	3000	3000
RECEP/ BOOF	3000	3000	0
RECEP TV WATER	1500	1500	0
RECEP TELE	1500	1500	0
RECEP LAUNDRY	3000	3000	0
25% OF LARGEST MOTOR	200	200	0
CONNECTED VA LOAD:	66200	66200	34000
DEMAND VA LOAD:	62200	62200	34000
DEMAND AMPS:	263	263	142
MAIN FUSE MAXIMUM AMPS:	400	400	
CONDUCTORS	#300	#300	#300
CONDUCTOR AMPACITY:	296	296	280

GROUND: #6CU TO APPROVED GROUNDING ELECTRODE

CK	DESCRIPTION	TRIP	VOLTS	KVA	AMPS	POLE	WIRE	COND
2	LIGHTING	20	120	1.2	10.0	1	12	1/2
4	LIGHTING	20	120	1.2	10.0	1	12	1/2
6	LIGHTING	20	120	1.2	10.0	1	12	1/2
8	LIGHTING	20	120	1.2	10.0	1	12	1/2
10	LIGHTING	20	120	1.2	10.0	1	12	1/2
12	WASH MACHINE	20	120	1.5	12.5	1	12	1/2
14	ICE MACH	20	120	1.5	12.5	1	12	1/2
16	ICE MACH	20	120	1.5	12.5	1	12	1/2
18	AIR HANDLER	25	240	5.5	22.9	2	10	1/2
20	AIR HANDLER							
22	AIR COND	20	240	4.5	19.2	2	14	1/2
24	AIR COND							
26	WATER HEATER	25	240	4.5	18.8	2	10	1/2
28	WATER HEATER							
30	RECEP ROOF	20	120	1.5	12.5	1	12	1/2
32	RECEP ROOF	20	120	1.5	12.5	1	12	1/2
34	RECEP TV WATER	20	120	1.5	12.5	1	12	1/2
36	RECEP TELE	20	120	1.5	12.5	1	12	1/2
38	RECEP LAUNDRY	20	120	1.5	12.5	1	12	1/2
40	RECEP LAUNDRY	20	120	1.5	12.5	1	12	1/2
42	SPARE	20	120	1.5	12.5	1		

MAIN SERVICE CONDUCTORS (COPPER) IN - 3 " CONDUIT

1. EXISTING 2ND & 3RD FL A.C. EQUIP :
   COND UNITS - 40,000VA 2P-20A #10,3/4"
   AHU UNITS - 15,000VA 2P-60A # 8,3/4"

ELECTRICAL PANEL: TYP APT — 2ND & 3RD FL EXIST.

SERVICE VOLTAGE: 120 / 208 1 PHASE 3 WIRE — PANEL RATING (AMPS): 100 — LOCATION: APT

CK	DESCRIPTION	TRIP	VOLTS	KVA	AMPS	POLE	WIRE	COND
1	AIR HANDLER	30	208	5.7	27.4	2	8	3/4
3	AIR HANDLER							
5	WATER HEATER	20	208	3.0	14.4	2	12	1/2
7	WATER HEATER							
9	APPLIANCE	20	120	1.5	12.5	1	12	1/2
11	APPLIANCE	20	120	1.5	12.5	1	12	1/2
13	SPARE	20	120	1.0	8.3			
15	SPARE	20	120	1.0	8.3			
17	SPARE	20	120	1.0	8.3			
19	SPACE							
21	SPACE							
23	SPACE							

SERVICE LOAD CALCS (based on NEC optional method, 220-30)

LOAD	LINE	NEUTRAL
AIR COND	1500	0
AIR HANDLER	5700	0
APPLIANCE	3000	3000
DISH WASHER	1200	1200
GENERAL LIGHT'G	4800	4800
SPARE	3000	3000
WATER HEATER	2600	0
KITCH COMBO	2470	2470
25% OF LARGEST MOTOR	200	0
CONNECTED VA LOAD:	24870	14470
DEMAND VA LOAD:	18800	11750
DEMAND AMPS:	78	55
MAIN FUSE MAXIMUM AMPS:	100	
CONDUCTORS:	#4	#4
CONDUCTOR AMPACITY:	100	100

GROUND: #8 TO APPROVED GROUNDING ELECTRODE

4TH FLOOR - NEW — 11/05/92

MAIN DISC (DIB): 100 AMPS 2 POLE PROJECT 50 FT: 500 — ENCLOSURE: NEMA 1 FLUSH MOUNTED

CK	DESCRIPTION	TRIP	VOLTS	KVA	AMPS	POLE	WIRE	COND
2	AIR COND	20	208	1.5	7.2	2	14	1/2
4	AIR COND							
6	KITCH COMBO	20	208	2.5	11.9	2	12	1/2
8	KITCH COMBO							
10	DISH WASHER	20	120	1.2	10.0	1	12	1/2
12	GENERAL LIGHT'G	20	120	1.2	10.0	1	12	1/2
14	GENERAL LIGHT'G	20	120	1.2	10.0	1	12	1/2
16	GENERAL LIGHT'G	20	120	1.2	10.0	1	12	1/2
18	GENERAL LIGHT'G	20	120	1.2	10.0	1	12	1/2
20	SPACE							
22	SPACE							
24	SPACE							

MAIN SERVICE CONDUCTORS (COPPER) IN ONE ½" CONDUIT

NOTE #1

NOTE #2

NOTE S:
1. 4TH FL COND UNITS (NEW) :
   2 TON UNIT - 15000VA 2P-20A #14,1/2"
   1.5 TON UNIT - 12000VA 2P-15A #14,1/2"
   2ND & 3RD FL COND. UNITS (EXISTING):
   2 TON UNIT - 3000VA 2P-25A #10,3/4"
   1.5 TON UNIT - 2300 VA 2P-20A #12,3/4"
2. KITCHEN COMBO UNITS :
   ACME 51 - 6870VA 2P-40A #8,3/4"
   ACME 51 - 2470VA 2P-20A # 12,½"

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MECHANICAL:
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ENGINEERING:

CITY OF MIAMI BEACH
RECEIVED
DEC 04 1992
BUILDING DEPARTMENT

REVISIONS	BY

SPOLTER, FRECHTEL, ASSOCIATES INC.
CONSULTING ENGINEERS
EVERGLADES BUILDING, MIAMI, FLORIDA 33131

CRYSTAL BEACH CLUB
6985 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2700 PONCIANA BLDG. KISSIMMEE, FL 32741
407-396-4988

11 - 92
P.T.S
AC

E-6

EXISTING DISTRIBUTION PANEL

TYPE: SQUARE D
MOUNTING: SURFACE
A/C:

"MDP" (METER)

MAINS: 1600 A.M.L.O.
BUS AMPS: 1600 A.
VOLTAGE: 120/240/1Φ/3W.

CKT.	LOAD DESCRIPTION	DEMAND KVA	DEMAND AMP	CIRCUIT BREAKER	FEEDER
1	2ND. FL. METER CENTER	100.00	280	3P-400A	4#600 CU. THW-3-½"C.
2	" "				
3	3RD. FL.				
4	" "				
5	4TH FL. (NEW)				
6	" "				
7	SPACE				
	TOTAL				

EXISTING CALCULATIONS INCLUDING 4TH FL. METER CENTER
DEMAND LOAD: 1,436,766 VA x 23% (NEC. 230-32) = 330456 VA. AT 240V. 1Φ = 1377A.
BRANCH FEEDER DEMAND LOAD: 239461 VA x 40% (NEC. 230-32) = 95785 VA AT 240V. 1Φ = 399A.

EXISTING DISTRIBUTION PANEL

TYPE: SQUARE D
MOUNTING: SURFACE
A/C:

"MDP" (METER)

MAINS: 1600 A.M.L.O.
BUS AMPS: 1600 A.
VOLTAGE: 120/240/1Φ/3W.

CKT.	LOAD DESCRIPTION	DEMAND KVA.	DEMAND AMP	CIRCUIT BREAKER	FEEDER
1	2ND. FL. METER CENTER	100.00	280	3P-400A	4#600 CU. THW-3-½"C.
2	" "				
3	3RD. FL.				
4	" "				
5	4TH. FL. (NEW)				
6	" "				
7	SPACE				
	TOTAL				

ΦA	ΦB	ΦC	
72A	72A	72A	ELEV. 1
72A	72A	72A	ELEV. 2
71A	–	71A	PANEL 'E'
33A	–	33A	SPARES
248A	144A	248A	PANEL 'EDP' TOTAL

ΦA	ΦB (HIGH)	ΦC	
248A	144A	248A	PANEL 'EDP'
1233A	–	1233A	PANEL 'HDP'
1481A	144A	1481A	TOTAL

NOTE: EXISTING CALCULATIONS (INCLUDING 4TH FLOOR)

ELECTRICAL PANEL: "MA" NEW PANEL — PNL'S #2 & #3 ARE EXISTING — 11/05/92

SERVICE VOLTAGE: 120 / 240 1 PHASE 3 WIRE — PANEL RATING (AMPS): 400 — LOCATION: EXIST BR

MAIN BUSC (MIN): 400 AMPS 2 POLE — ENCLOSURE: NEMA 1 SURFACE MOUNTED
PROJECT 50 FI: 1000

CK	DESCRIPTION	TRIP	VOLTS	KVA	AMPS	POLE	WIRE	COND
1	LIGHTING	20	120	1.2	10.0	1	12	1/2
3	LIGHTING	20	120	1.2	10.0	1	12	1/2
5	LIGHTING	20	120	1.2	10.0	1	12	1/2
7	LIGHTING	20	120	1.2	10.0	1	12	1/2
9	LIGHTING	20	120	1.2	10.0	1	12	1/2
11	DRYER	30	240	5.8	29.6	2	10	1/2
13	DRYER							
15	HEATING	20	120	1.5	12.5	1	12	1/2
17	HEATING	20	120	1.5	12.5	1	12	1/2
19	AIR HANDLER	25	240	5.5	22.9	2	10	1/2
21	AIR HANDLER							
23	AIR COND	20	240	4.5	19.9	2	14	1/2
25	AIR COND							
27	WATER HEATER	25	240	4.5	18.8	2	10	1/2
29	WATER HEATER							
31	DRYER	30	240	5.8	20.8	2	10	1/2
33	DRYER							
35	SPARE	20	120	1.5	12.5			
37	SPARE	20	120	1.5	12.5			
39	SPACE							
41	SPACE							

SERVICE LOAD CALCULATIONS

LOAD	LINE A	LINE C	NEUTRAL
AIR COND	3000	3000	0
AIR HANDLER	11000	11000	0
DRYER	10050	10050	10050
LIGHTING	12000	12000	12000
SPARE	4500	1500	4500
WASH MACHINE	1500	1500	1500
WATER HEATER	9000	9000	0
ICE MACH	3000	3000	3000
HEATING	3000	3000	2000
RECEP. ROOF	3000	3000	0
RECEP TV WATER	1500	1500	0
RECEP TELE	1500	1500	0
RECEP LAUNDRY	3000	3000	0
25% OF LARGEST MOTOR	200	200	0
CONNECTED VA LOAD:	66200	66200	34000
DEMAND VA LOAD:	63200	63200	34000
DEMAND AMPS:	263	263	142
MAIN FUSE MAXIMUM AMPS:	400	400	
CONDUCTORS:	#300	#300	#300
CONDUCTOR AMPACITY:	290	290	285

GROUND: TO APPROVED GROUNDING ELECTRODE

1. EXISTING 2ND & 3RD FL A.C. EQUIP.:
   COND UNITS - 40000VA 2P-25A #10.3/4"
   AHU UNITS - 15,000VA 2P-40A # 8.3/4"

ELECTRICAL PANEL: 1YP APT — 2ND & 3RD FL EXIST. — 4TH FLOOR - NEW — 11/05/92

SERVICE VOLTAGE: 120 / 208 1 PHASE 3 WIRE — PANEL RATING (AMPS): 100 — LOCATION: APT

MAIN BUSC (MIN): 100 AMPS 2 POLE — ENCLOSURE: NEMA 1 FLUSH MOUNTED
PROJECT 50 FI: 500

CK	DESCRIPTION	TRIP	VOLTS	KVA	AMPS	POLE	WIRE	COND
1	AIR HANDLER	30	208	5.7	27.4	2	8	3/4
3	AIR HANDLER							
5	WATER HEATER	20	208	3.0	14.4	2	12	1/2
7	WATER HEATER							
9	APPLIANCE	20	120	1.5	12.5	1	12	1/2
11	APPLIANCE	20	120	1.5	12.5	1	12	1/2
13	SPARE	20	120	1.0	8.3			
15	SPARE	20	120	1.0	8.3			
17	SPARE	20	120	1.0	8.3			
19	SPACE							
21	SPACE							
23	SPACE							

SERVICE LOAD CALCS (based on NEC optional method, 220-30)

LOAD	LINE	NEUTRAL
AIR COND	1500	0
AIR HANDLER	5700	0
APPLIANCE	3000	3000
DISH WASHER	1200	1200
GENERAL LIGHT'G	4800	4800
SPARE	3000	3000
WATER HEATER	3000	0
KITCH COMBO	2470	2470
25% OF LARGEST MOTOR	700	0
CONNECTED VA LOAD:	24870	14470
DEMAND VA LOAD:	18889	11250
DEMAND AMPS:	78	55
MAIN FUSE MAXIMUM AMPS:	100	
CONDUCTORS:	#4	#4
CONDUCTOR AMPACITY:	100	100

GROUND: TO TO APPROVED GROUNDING ELECTRODE

NOTE #1

NOTE #2

NOTES:
1. 4TH FL COND UNITS (NEW):
   2 TON UNIT - 1500VA 2P-20A #14.1/2"
   1.5 TON UNIT - 1200VA 2P-15A #14.1/2"
   2ND & 3RD FL COND. UNITS (EXISTING):
   2TON UNIT - 3000VA 2P-25A #10.3/4"
   1.5TON UNIT - 2300 VA 2P-20A #12.3/4"
2. KITCHEN COMBO UNITS:
   ACME S1-6870VA 2P-40A #8.3/4"
   ACME S1-2470VA 2P-20A # 12.1/2"

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CITY OF MIAMI BEACH
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BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

CITY OF MIAMI BEACH
RECEIVED
DEC 04 1992
BUILDING DEPARTMENT

REVISIONS	BY

EPOLTER, FRECHTEL, ASSOCIATES, INC.
CONSULTING ELECTRICAL ENGINEERS
ENGINEERING DESIGNS FOR POWER, LIGHTING, COMMUNICATIONS, SECURITY & FIRE ALARM SYSTEMS
11 - 92

CRYSTAL BEACH CLUB
6985 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2750 PONCIANA BLDG. KISSIMMEE, FL 32741
407-396-4006

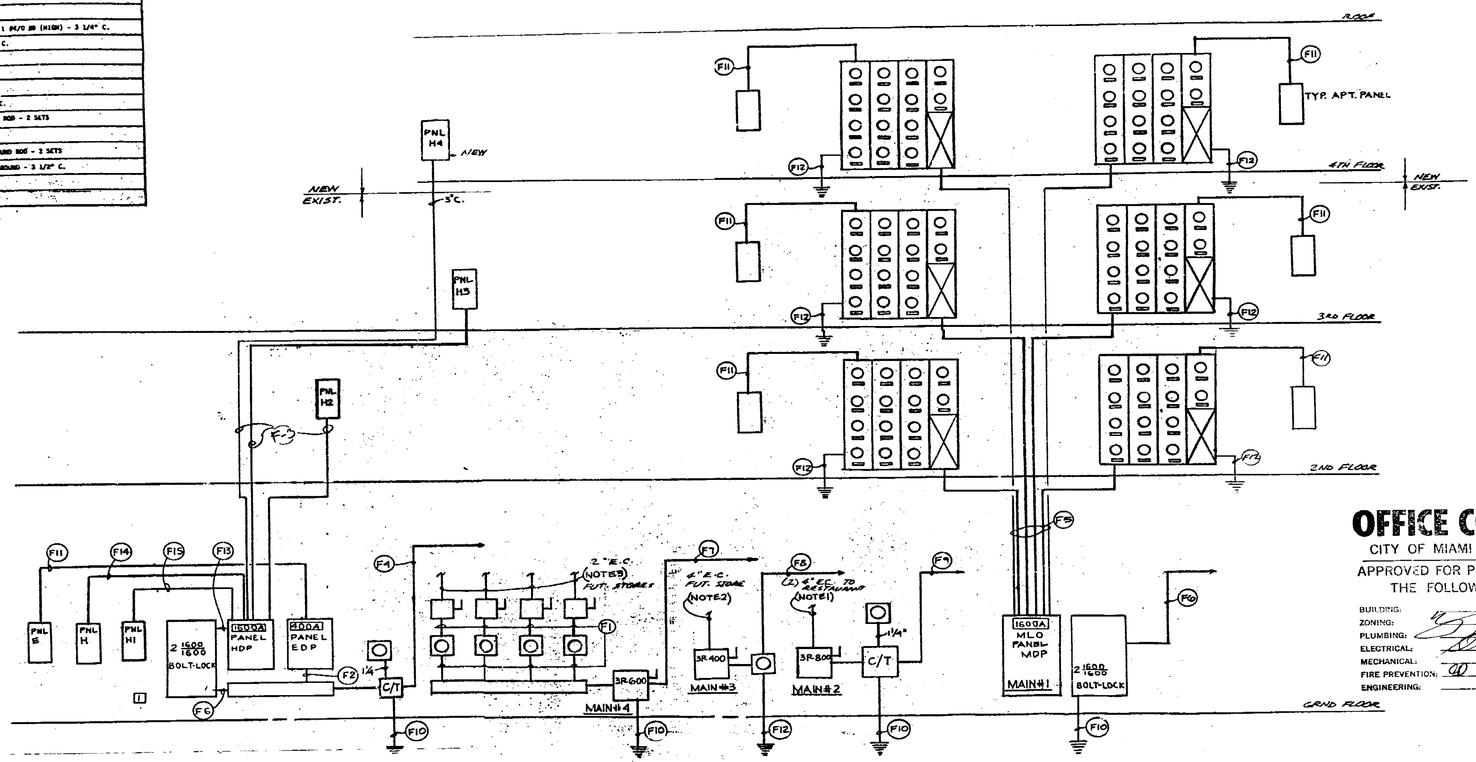
Date 11 - 92
Scale N.T.S
Drawn CC
Job
Sheet E-6
Of Sheets

24

30

FEEDER SCHEDULE

DESIGNATION	WIRE & CONDUIT (WIRE QTY. TOP.)
F1	3 #350 MCM, #4 GRND - 3" C.
F2	4 #600 MCM - 3 1/2" C.
F3	4 #300 MCM 2" C.
F4	(4) SETS OF: 3 #600 MCM (BASIC & 1 #4/0 AB (HIGH) - 3 1/4" C.
F5	(2) SETS OF: 3 #250 MCM - 2 1/2" C.
F6	(4) SETS OF: 3" C EACH
F7	(2) SETS OF 4 #350 - 3" C EACH
F8	4 #600 MCM - 3 1/2" C.
F9	(2) SETS OF 4 #600 MCM - 3 1/2" C.
F10	1 #3/0 C TO 3/4" x 10 FT. GROUND ROD - 2 SETS
F11	3 #3 - 1 1/4" C.
F12	1 #10 - 3/4" C TO 3/4" x 10' GROUND ROD - 2 SETS
F13	(4) SETS OF 3 #600 MCM, 1 #4/0 GROUND - 3 1/2" C.
F14	3 #250 MCM, 1 #4 GROUND - 3" C.
F15	3 #4/0, 1 #4 GRIBND - 2 1/2" C.



ELECTRICAL RISER DIAGRAM

N.T.S

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BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

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REVISIONS	BY

11-92 RR RR

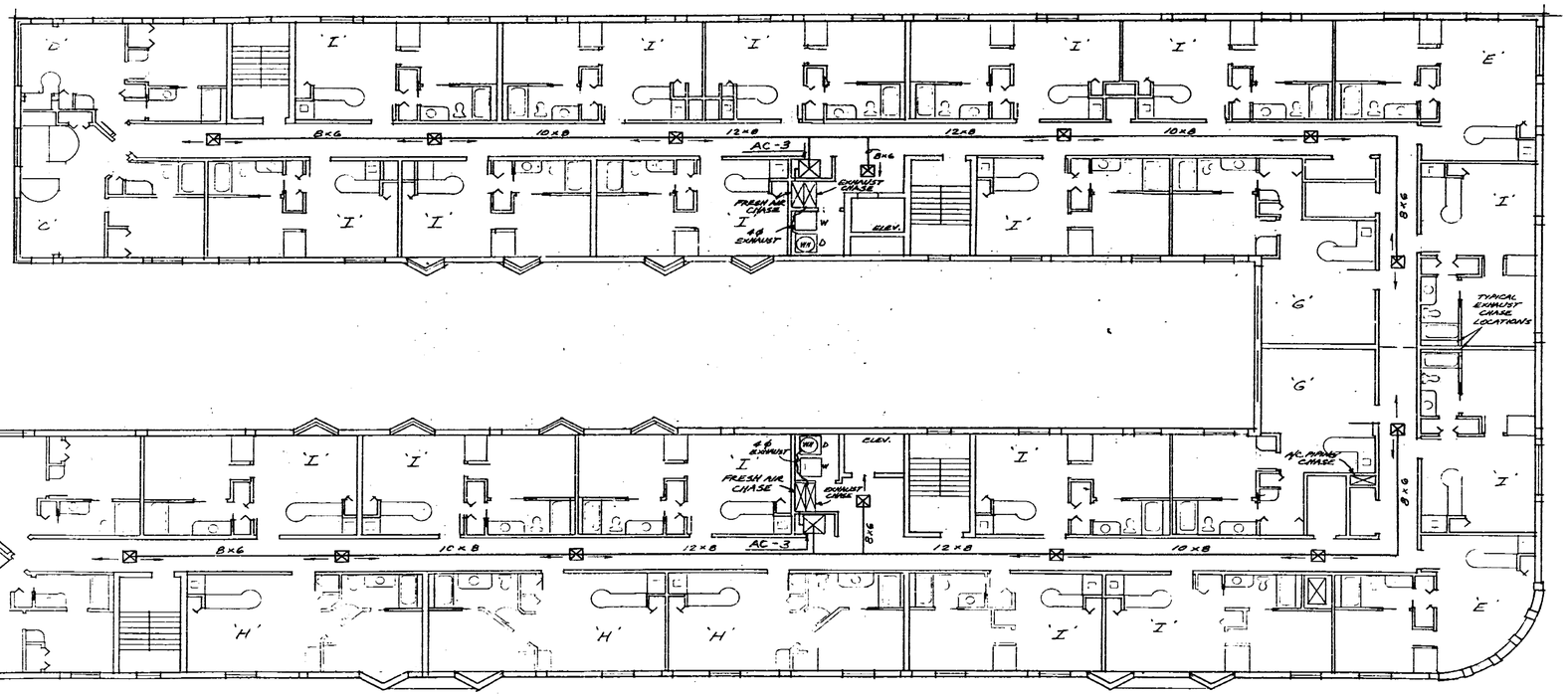
CRYSTAL BEACH CLUB
6985 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2760 PONCIANA BLDG. KISSIMMEE, FL 32741
407-396-4995

Date 11-92
Scale N.T.S
Drawn RR
Job
Sheet E-7
Of Sheets

A/C NOTES:

1. SUPPLY GRILLES SHALL BE 8 X 8 DAMPERED TO 120 CFM EACH.
2. RETURN PLENUMS SHALL HAVE A 15 X 15 REGISTER DAMPERED TO 440 CFM EACH.
3. FRESH AIR DUCTS TO EACH UNIT SHALL BE 10 X 10 DAMPERED TO 400 CFM EACH.
4. RECLAIM ALL FREON FROM ALL UNITS WHEN EXTENDING REFRIGERANT LINES.



4th FLOOR PLAN
1/8" = 1'-0"

AIR CONDITIONING

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL: GR 12-8-92
FIRE PREVENTION: GR
ENGINEERING:

CITY OF MIAMI BEACH
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BUILDING DEPARTMENT

REVISIONS | BY

SPOLTER, FRECHTEL, ASSOCIATES INC.
CONSULTING ENGINEERS
2766 HOLLYWOOD BLVD., HOLLYWOOD, FLORIDA 33020
DATE 11-12
JOB No.
DRAWN KK
CHECKED

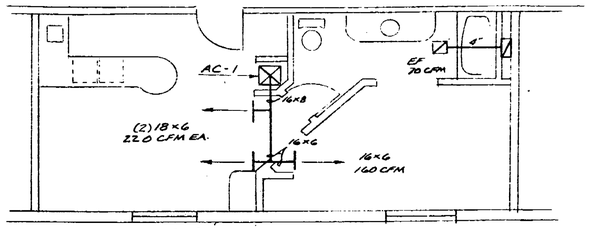
CRYSTAL BEACH CLUB
5985 COLLINS AVE. MIAMI BEACH, FLORIDA

STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2766 POINCIANA BLDG. KISSIMMEE, FL 32741
407-396-4566

Date 11 - 92
Scale 1/8"=1'-0"
Drawn KK
Job
Sheet AC-1
Of Sheets

24

30



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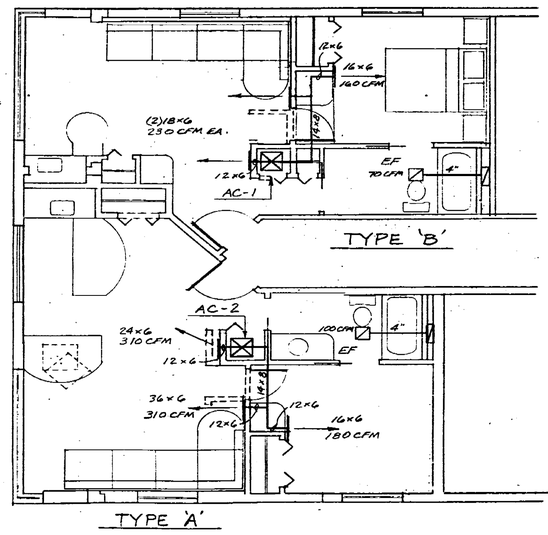

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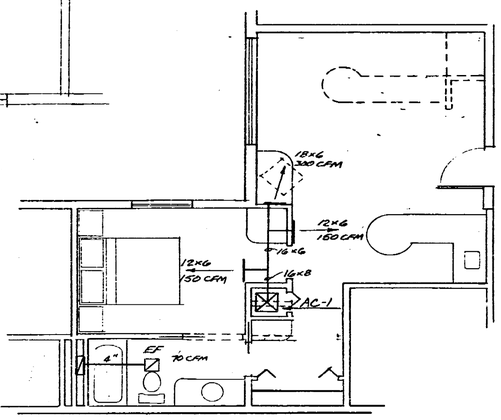

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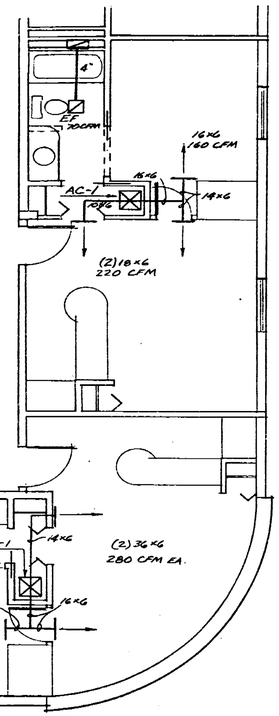

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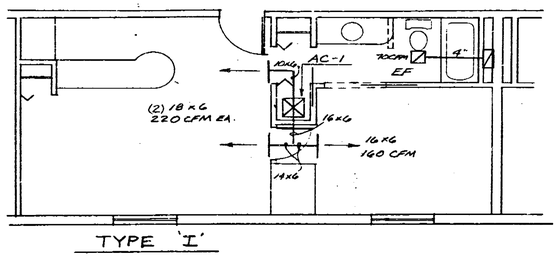
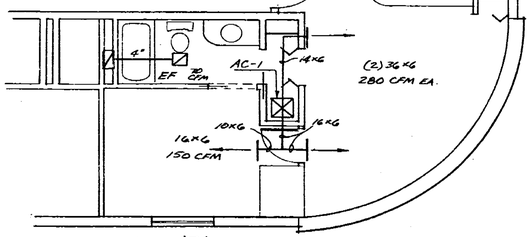


TYPE 'I'



TYPE 'E'

TYPICAL UNIT PLANS
1/4"=1'-0"

AIR CONDITIONING

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CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL: PR 12-8-92
FIRE PREVENTION: OK
ENGINEERING:

CITY OF MIAMI BEACH
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BUILDING DEPARTMENT

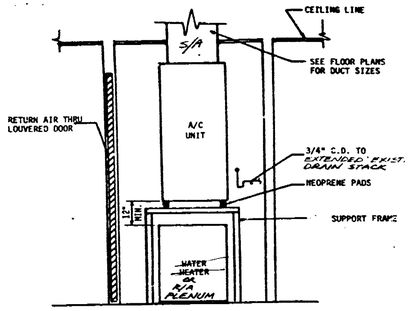
REVISIONS

SPOLTER, FRECHTEL, ASSOCIATES INC.
CONSULTING ENGINEERS
2700 SOUTH 29 AVENUE, HOLLYWOOD, FLORIDA 33020
DATE 11-25-92
JOB NO.
DRAWN SK
CHECKED RL

CRYSTAL BEACH CLUB
6995 COLLINS AVE. MIAMI BEACH, FLORIDA

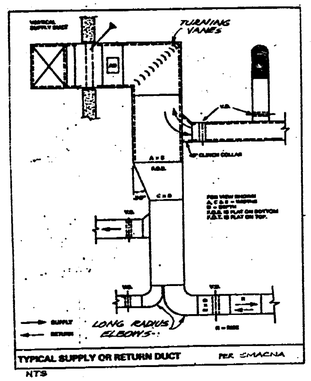
STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2758 POINCIANA BLDG. KISSIMMEE, FL 32741
407-396-4006

Date
Scale : 1/4"=1'-0"
Drawn AC
Job
Sheet
AC-2



A/C CLOSET MOUNTING DETAIL

N.T.S.



TYPICAL SUPPLY OR RETURN DUCT PER SMACNA

NTS

FAN SCHEDULE	
UNIT DESIGNATION	EF
AREA SERVED	TOILETS
LOCATION	CEILING
CAPACITY - CFM	110
STATIC PRESSURE	.125
FAN SPEED (MAX)	1200
MOTOR WATTS	105
ELECT. SERVICE	115 V.
MANUFACTURER	PENN
MODEL NAME	ZEPHYR JR.
MODEL NUMBER	ZJ1
CONTROL	SWITCHED
ACCESSORIES: SSP (SPEED CONTROL)	
SET CFM PER PLANS	

SPLIT SYSTEM A/C SCHEDULE

AIR HANDLING

MARK	AHU-	1	2	3
COOLING CAPACITY (MBH.)	MBH	17.6	22.2	35.8
TOTAL AIR CIRCULATED	CFM	600	800	800
OUTSIDE AIR *	CFM	50	50	80
ENTERING TEMP. db/wb	F.	80/67	80/67	80/67
EXT. STATIC PRESSURE	IN H20	0.56	0.35	0.36
MOTOR (BLOWER)	HP	1/5	1/5	1/3
ELECTRIC HEAT (MIN.)	KW	5	5	—
FILTER TYPE	- - -	WASHABLE	WASHABLE	WASHABLE
ELECTRICAL (BLOWER)	V/Ø/C	230-1-60	230-1-60	230-1-60
MANUFACTURER	- - -	CARRIER	CARRIER	CARRIER
BLOWER MODEL NUMBER	- - -	FB4A024	FB4A024	FB4A042

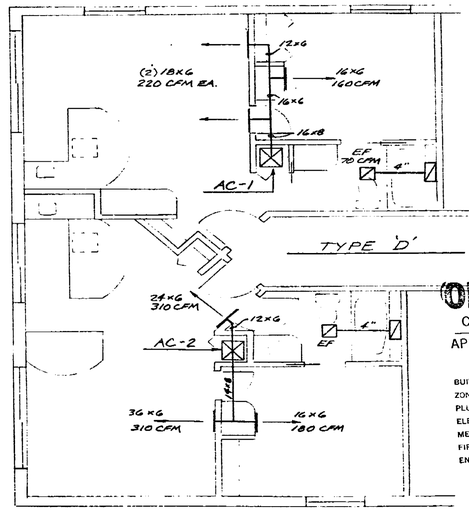
CONDENSING UNIT DATA

MARK	CU-	1	2	3
OUTDOOR TEMPERATURE	DEG. F	95	95	95
ELECTRICAL	V/Ø/C	230-1-60	230-1-60	230-1-60
MAXIMUM FUSE/MCA	AMPS.	15/11.5	20/14.5	30/19.9
MANUFACTURER	- - -	CARRIER	CARRIER	CARRIER
MODEL NUMBER	- - -	38CK1018	38CK1024	38CK1036
MINIMUM S.E.E.R.	- - -	10.5	10.0	10.0

* OR AS NOTED ON PLANS

FEATURES: WEATHER ARMOR II CABINETS: GALVANIZED STEEL WITH BAKED POLYESTER FINISH.

HVAC LEGEND & ABBREVIATIONS	
SYMBOL	DESCRIPTION
	SUPPLY DUCT SECTION
	RETURN OR EXHAUST DUCT SECTION
	DUCT BRANCH (SUPPLY OR RETURN)
FD	FIRE DAMPER
	TURNING VANES
DG	DOOR GRILLE
UC	UNDERCUT DOOR 3/4"
	EXHAUST FAN
	SMOKE DETECTOR
T	THERMOSTAT WALL MTD @ 5'
A/C	AIR CONDITIOING
AHU	AIR HANDLING UNIT
CU	CONDENSING UNIT
O.A.	OUTSIDE AIR
S/A	SUPPLY AIR
R/A	RETURN AIR
CD	CEILING DIFFUSER
SSG	SIDEWALL SUPPLY GRILLE
RG	RETURN GRILLE
TG	TRANSFER GRILLE
VD	VOLUME DAMPER
CFM	CUBIC FEET PER MINUTE
COND. DR.	CONDENSATE DRAIN
— — —	EXISTING A/C



TYPE 'C'

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BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL: 12/9/92
FIRE PREVENTION:
ENGINEERING:

CITY OF MIAMI BEACH RECEIVED DEC 04 1992 BUILDING DEPARTMENT

TYPICAL UNIT PLANS
SCALE: 1/4" = 1'-0"

AIR CONDITIONING

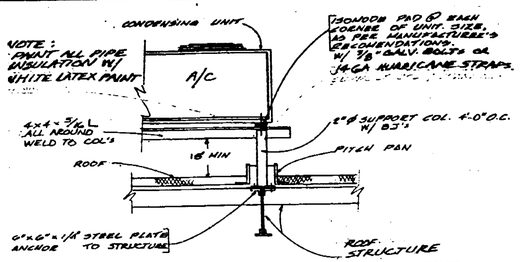
REVISIONS	BY

SPOLTER, FRECHTEL, ASSOCIATES INC.
CONSULTING ENGINEERS
2100 NORTH 29 AVENUE, HOLLYWOOD, FLORIDA 33020
DATE 11/12 JOB NO. — SCALE — DRAWN RC

CRYSTAL BEACH CLUB
6985 COLLINS AVE. MIAMI BEACH, FLORIDA

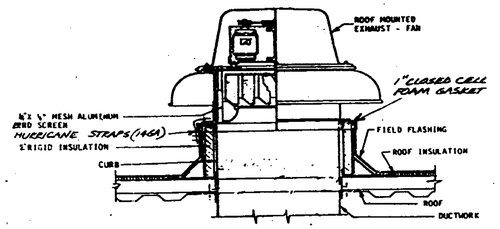
STANLEY FORREST ARCHITECT
FIRST LEISURE CORP.
2750 POINCIANA BLDG. KISSIMMEE, FL 32741
407-846-4008

Date 11/12
Scale 1/4"=1'-0"
Drawn RC
Job
Sheet AC-3
Of Sheets



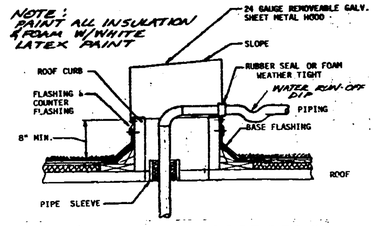
TYPICAL SUPPORTS FOR A/C CONDENSING UNIT

N. T. S.



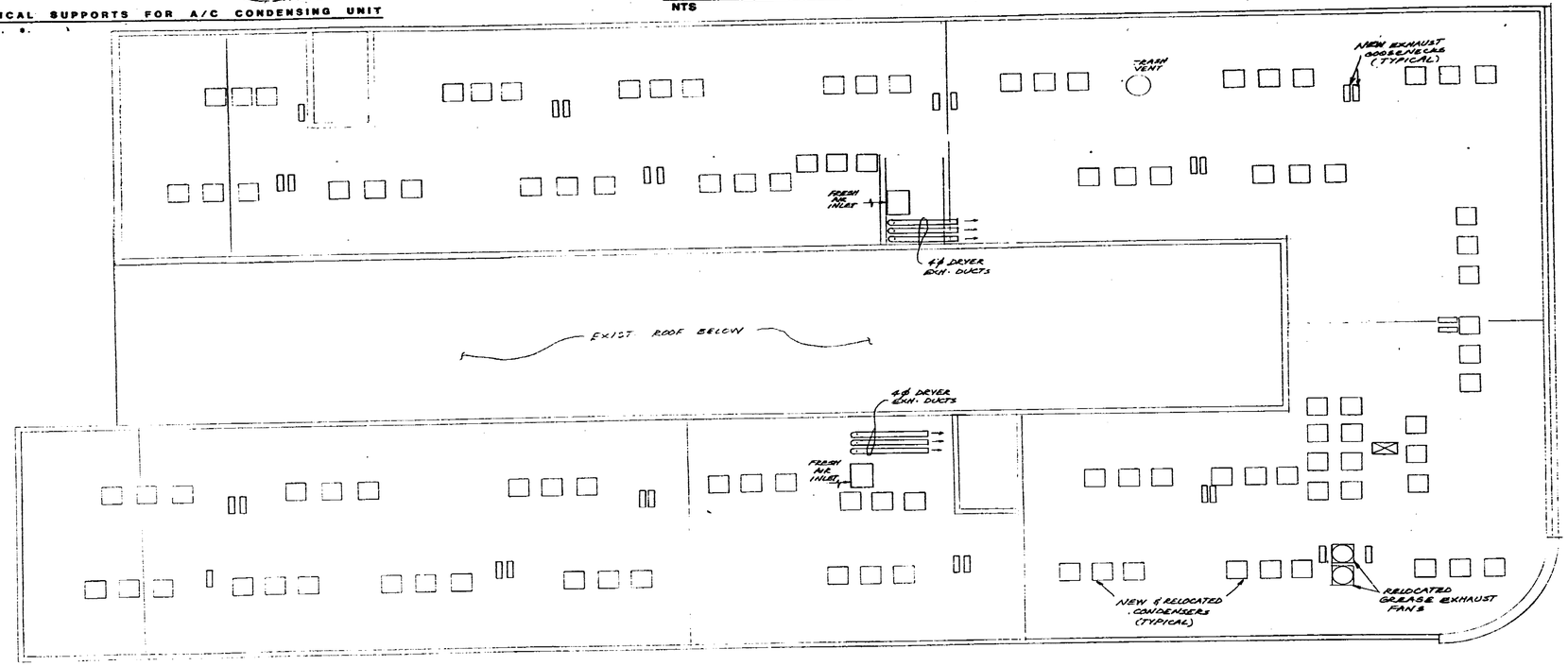
TYPICAL FAN MTG DETAIL

NTS



PIPING THROUGH ROOF DECK

NTS



ROOF PLAN

AIR CONDITIONING

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BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL: DR 12-8-92
FIRE PREVENTION:
ENGINEERING:

CITY OF MIAMI BEACH
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BUILDING DEPARTMENT

REVISIONS

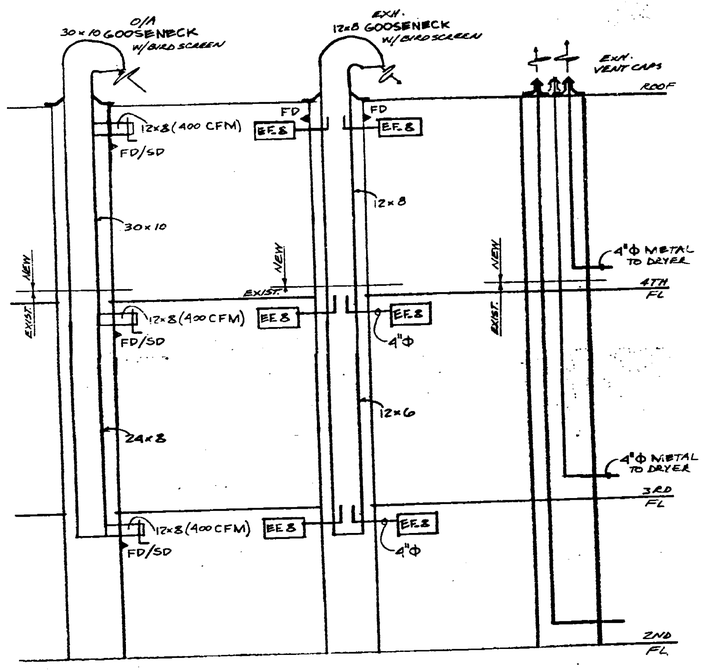
SPOLTER, FRECHTEL, ASSOCIATES INC.
CONSULTING ENGINEERS
3700 NORTH 29 AVENUE, HOLLYWOOD, FLORIDA 33020

DATE 11-92
JOB NO. 92-
DRAWN BY SC

CRYSTAL BEACH
8888 COLLINS AVE. MIAMI BEACH, FLORIDA

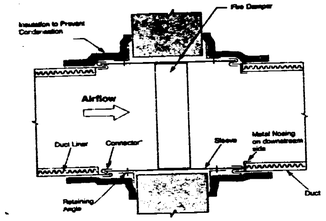
STANLEY FORREST, ARCHITECT
FIRST LEISURE CORP.
2750 POINCIANA BLOD.
KISSIMMEE, FL. 32741
407-396-1996

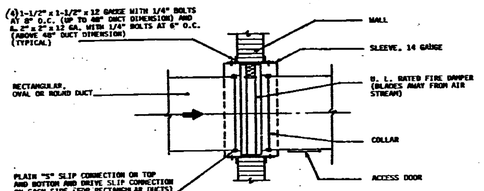
Date 11-92
Scale 1/8"=1'-0"
Drawn AR
Job
Sheet
A-4



O/A INTAKE, TOILET EXHAUST, DRYER VENT RISERS

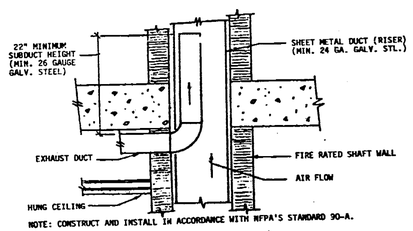
NTS





TYPICAL
FIRE DAMPER DETAIL - WALL

NTS.



"N.F.P.A. BOOT" - EXHAUST DUCTS - DETAIL

N.T.S

H.V.A.C. SPECIFICATIONS

1. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT SHOWN OR INDICATED FOR A COMPLETE HVAC SYSTEM IN ACCORDANCE WITH THESE DRAWINGS AND THE LATEST EDITION OF THE APPLICABLE CODES AND TO ASHRAE AND SMACNA STANDARDS. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL.
2. ALL AIR CONDITIONING DUCTWORK SHALL BE 1 INCH FIBERGLASS, 3 POUNDS PER CUBIC FOOT DENSITY WITH VAPOR BARRIER TAPED AND STAPLED.
3. ALL EXHAUST DUCTWORK SHALL BE GALVANIZED CONSTRUCTED IN ACCORDANCE WITH SMACNA'S STANDARDS FOR LOW PRESSURE DUCTS, INCLUDING ALL FRESH AIR DUCTWORK.
4. ALL AIR DEVICES SHALL BE ALL ALUMINUM CONSTRUCTION WITH WHITE EXPOSED SURFACES.
5. PROVIDE OPPOSED BLADE DAMPERS AT DIFFUSERS, REGISTERS AND BRANCHES. PROVIDE TURNING VANES AT ALL ELBOWS MORE THAN 45 DEGREES IN ALL SUPPLY & RETURN DUCTWORK.
6. PROVIDE GASKETS ON ALL GRILLES, DIFFUSERS AND ACCESS PANELS TO ALL CONTROL DEVICES AND EQUIPMENT.
7. THE INSIDE OF ALL VISIBLE DUCTWORK SHALL BE PAINTED FLAT BLACK.
8. ALL EQUIPMENT SHALL BE ISOLATED, AS REQUIRED, TO OPERATE QUIETLY. NO OBJECTIONABLE SOUNDS SHALL BE PRODUCED.
9. CONTRACTOR SHALL BALANCE THE HVAC SYSTEMS AND PROVIDE PRINTED INSTRUCTIONS FOR THE OWNER'S OPERATION OF THE SYSTEMS.
10. CONTRACTOR SHALL PROVIDE A PRINTED ONE YEAR WARRANTY ON ALL PARTS AND LABOR, STATING ALL MAJOR COMPONENTS.
11. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL TRADES IN ORDER TO AVOID CONFLICTS.
12. ALL SCHEDULED EQUIPMENT INCLUDING MOTOR STARTERS AND DISCONNECTS SHALL BE LABELED AND IDENTIFIED WITH ENGRAVED PLASTIC NAMEPLATES.
13. CONTRACTOR SHALL PROVIDE ALL REQUIRED ITEMS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER. IF ANY ITEMS ARE MISSING, HE SHALL NOTIFY THE ARCHITECT/ENGINEER BEFORE COMMENCING WORK. AFTER COMPLETION OF THIS WORK, NO ADDITIONAL PAYMENTS SHALL BE MADE FOR THE CONTRACTOR'S FAILURE TO HAVE SO NOTIFIED THE ARCHITECT/ENGINEER.
14. PROVIDE A SMOKE DETECTOR IN THE SUPPLY AND RETURN DUCTS OF AIR HANDLING UNITS 2,000 CFM AND MORE TO SHUT OFF POWER TO THE FAN AND TO SOUND AN AUDIBLE ALARM WHERE REQUIRED.
15. T-STAT SHALL BE 1-STAGE COOLING/1-STAGE HEATING.
16. EQUIPMENT REQUIREMENTS SHOWN ARE MINIMUM. OTHER MANUFACTURER'S EQUIPMENT CHARACTERISTICS SHALL MEET OR EXCEED THOSE SCHEDULED. CONTRACTOR SHALL PROVIDE ALL NECESSARY MODIFICATIONS AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.

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CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL: OK 12-4-92
FIRE PREVENTION:
ENGINEERING:

CITY OF MIAMI BEACH
RECEIVED
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BUILDING DEPARTMENT

REVISIONS

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