PERMIT #	COMP_TYPE	SUB_TYPE	APPLIED	APPROVED	EXPIRED
BE061535	BELEC	ALTRMDL	15-Mar-06	15-Mar-06	11-Sep-06
BE080348	BELEC	ALTRMDL	13-Nov-07	13-Nov-07	11-May-08
BE041451	BELEC	ALTRMDL	01-Apr-04	01-Apr-04	29-Aug-05
BE061534	BELEC	ALTRMDL	15-Mar-06	15-Mar-06	11-Sep-06
BE092913	BELEC	ALTRMDL	24-Sep-09	24-Sep-09	15-May-10
BE092914	BELEC	ALTRMDL	24-Sep-09	24-Sep-09	15-May-10
BE080349	BELEC	ALTRMDL	13-Nov-07	13-Nov-07	11-May-08
BE052581	BELEC	ALTRMDL	29-Jun-05	29-Jun-05	26-Dec-05
BM040972	BMECH	A/C	14-May-04	14-May-04	29-Sep-05
BM050257	BMECH	A/C	03-Dec-04	03-Dec-04	29-Aug-05
BMS0401250	BMISC	REVISE	21-Jan-04	30-Jan-04	28-Jul-04
BMS0401634	BMISC	REVISE	23-Feb-04	02-Mar-04	29-Aug-04
BMS0501782	BMISC	RESEARCH	04-Feb-05		
BMS31724	BMISC	OTH	05-Aug-93	05-Aug-93	
BMS0200238	BMISC		23-Oct-01	23-Oct-01	
BMS0304105	BMISC		05-Sep-03	15-Sep-03	
BP070621	BPLUM	ALTRMDL	22-Jan-07	22-Jan-07	13-Mar-14
BP060078	BPLUM	SEWER	19-Oct-05	19-Oct-05	09-Aug-06
BP040778	BPLUM	ALTRMDL	18-Mar-04	18-Mar-04	29-Aug-05
BP031815	BPLUM	PORTABLE	13-Aug-03	13-Aug-03	09-Feb-04
B0400159	BSBUILD	ADDTN-R	09-Oct-03	09-Oct-03	29-Aug-05
B0402220	BSBUILD	ALTRMD-R	02-Mar-04		
B0505926	BSBUILD	SHUTER-R	10-Aug-05	10-Aug-05	14-Jun-06
B0401127	BSBUILD	ROOFING	09-Dec-03	10-Dec-03	01-Sep-04
B1305546	BSBUILD	DRWNW-R	29-Jul-13	29-Jul-13	25-Jan-14
B0801408	BSBUILD	FENCE-R	11-Jan-08		
BS910088	BSBUILD	OTH	11-Oct-90	11-Oct-90	09-Apr-91
B0404876	BSBUILD	DRWNW-R	06-Aug-04	09-Aug-04	05-Feb-05
B0504827	BSBUILD	DRWNW-R	14-Jun-05	16-Jun-05	13-Dec-05
B1306448	BSBUILD	SHUTER-R	16-Sep-13	18-Sep-13	17-Mar-14
B0204098	BUILD	ALTRMDL	09-Jul-02	11-Jun-03	08-Dec-03
B1305543	BUILD	ADDTN-R	29-Jul-13	29-Jul-13	13-Mar-14
BV13000790	BVIO	STRUCT	04-Jun-13	04-Jun-13	25-Sep-13

STATUS
CLOSED
CLOSED
CLOSED
CLOSED
FINAL
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FINAL
CHNGCNTR
FINAL
CLOSED

DESCRIPTION
RENEW # BE041451/ REMODELING/ 2ND RNWL OF EXP PERMIT#BE061535 TO BE080348.
2ND RNWL OF EXP PERMIT#BE061535/ RENEW # BE041451/ REMODELING.
CLOSING THE BALCONY & CONVERT INTO A BATHROOM
RENEW # BE052581/ MASTER BEDROOM (WHIRLPOOL)/ 2ND RNWL OF EXP PERMIT#BE061534 TO BE080349.
3RD Renewal BE080348/2ND RNWL OF EXP PERMIT#BE061535/ RENEW # BE041451/ REMODELING.
3rd Renewal BE080349/2ND RNWL OF EXP PERMIT#BE061534/ RENEW # BE052581/ MASTER BEDROOM
2ND RNWL OF EXP PERMIT#BE061534/ RENEW # BE052581/ MASTER BEDROOM (WHIRLPOOL)
MASTER BEDROOM (WHIRLPOOL)
2 A/C SUPPLT 1 EXAUST FAN
DUCTWORK ONLY 2 SUPPLY 1 EXAUST
REV. B020409(CHANGE OF CONTRACTOR TO B0400159). CHANGE PARTITION, WOOD JOIST FROM 12' TO 10' ON 2ND FLOOR, CHANGE PIPES LOCATION AND CHANGE RISER DIAGRAM.
B0400159/ REVISION TO ELECTRICAL/ PLUMBING
Research
1 MICROFILM COPY
3 MICROFILM COPIES
TRUSSES SHOP DRAWINGS / B0204098
RNW EXP. PERMIT #BP040778 & RPLC W/PERMIT #BP070621/ 5/roughs 5/sets
Sewer replacement
5/roughs 5/sets - RNW EXP. PERMIT #BP040778 & RPLC W/PERMIT #BP070621
t/toilet
chng cntrctr from B0204098 / CLOSING THE BALCONY & CONVERT INTO A BATHROOM
BUILT NEW GAZEBO.
Hurricane panels 3 OPNGS
RE-ROOF FLAT TO FLAT (3,500) SQFT.
REPLACE B0504827 TO RE ISUE OF B0404876...INSTL 3 WDWS (NON IMPACT) 3 OPNNGS/
EXTERIOR PERIMETER WALL(MASONRY/METAL FENCE)
PARTIAL DEMO-RMV WNDWS,DRS & INT WALLS
INSTL 3 WDWS (NON IMPACT) 3 OPNNGS
RE ISUE OF B0404876...INSTL 3 WDWS (NON IMPACT) 3 OPNNGS/
prj05724 installation of shutters in (rear)
CLOSING THE BALCONY & CONVERT INTO A BATHROOM change of contractor to B0400159 on 10-09-03
REPLACE B0400159 TO CLOSING THE BALCONY & CONVERT INTO A BATHROOM
NOTICE OF VIOLATION ISSUED. Property with exopired permits: B0400159, B0504827, BP070621. Need to renew expired permits and need to obtain final inspecitons.

STREET_NO	TREET_DIRECTIO	STREET_NAME	PARCEL_NO
4230	N	BAY RD	32220110390
4230	N	BAY RD	32220110390
4230	N	BAY RD	32220110390
4230	N	BAY RD	32220110390
4230	N	BAY RD	32220110390
4230	N	BAY RD	32220110390
4230	N	BAY RD	32220110390
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4230	N	BAY RD	32220110390
4230	N	BAY RD	32220110390
4230	N	BAY RD	32220110390
4230	N	BAY RD	32220110390

PERMIT #

B0204098

CITY OF MIAMI BEACH

RECEIPT OF PAYMENT

Activity Number
Status APPLIED

Entered By RUTLEDGE

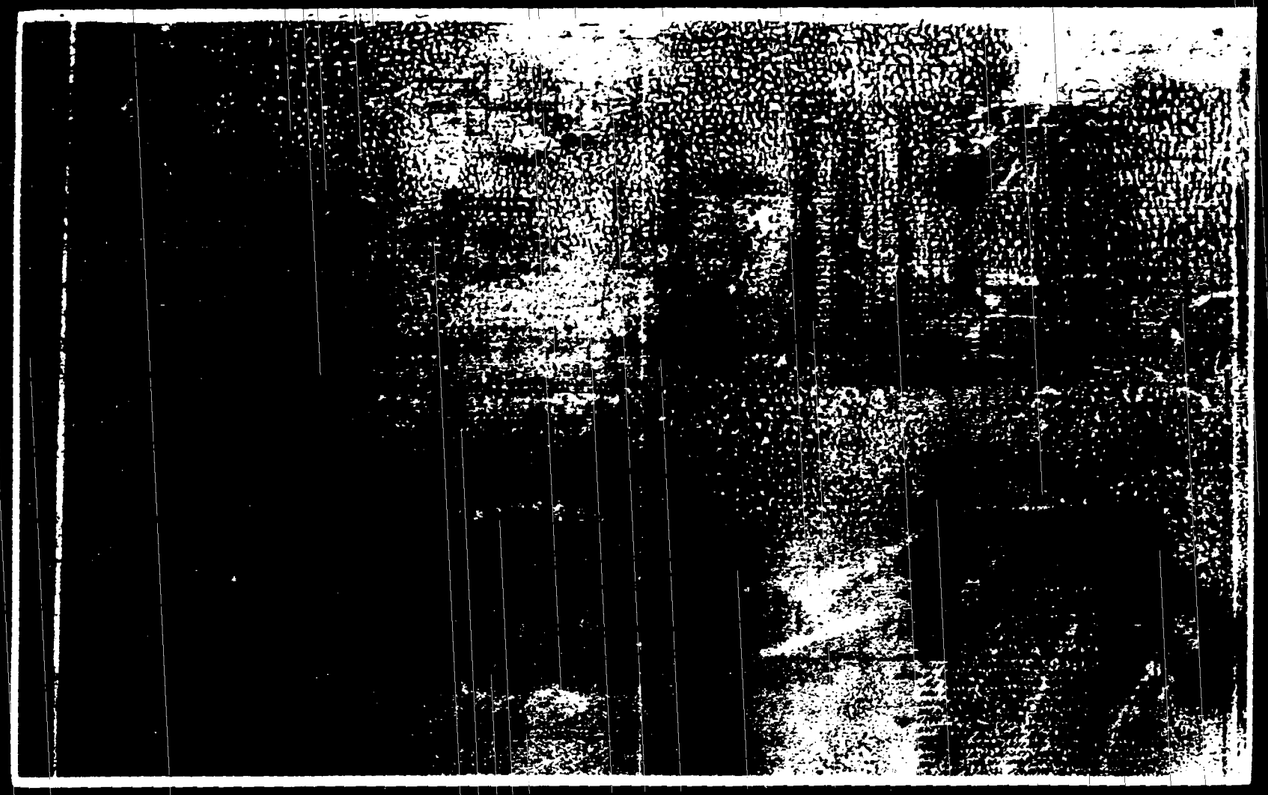
Balance Due
Valuation

FRANK MARRERO &W ROSA
PO BOX 57002
MIAMI FL 33157-1002

ents made for this receipt

nt Payment Made to the Following Items:

nt Summary for Fees and Payments



CITY OF MIAMI BEACH

Receipt of Payment

Building Work Permit

Activity Number
Status APPROVED

Entered By RUEWHER

Balance Due $0.00
Valuation $13,000.00

1000 SOUTH POINTE DR #C01

MARBLE AND TILE UNLIMITED
13999 BISCAYNE BOULEVARD
MIAMI 33181

BRIAN Z FRANCE
TRUSTEE OF THE BRIAN Z FRANCE REVOCABLE
1000 S POINTE DR #2001 33139

Payments made for this receipt

Current Payment Made to the Following Items:

Account Summary for Fees and Payments:

WORK WRITE-UP SHEET

JOB COPY
CITY OF MIAMI BEACH

APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING
ZONING
PW/ES
CONSERVATION
PLANNING
FIRE
HISTORIC

As per Florida Building Code Section 104.5.3
REVIEWED FOR CODE COMPLIANCE

NOTICE
...ORK UNDER
...E A
SEPARATE WATERPROOFING
PERMIT. CONTRACTOR MUST
CALL FOR ALL MANDATORY
INSPECTIONS.

Interior only BALCONY

CITY OF MIAMI BEACH

Receipt of Payment

Building Work Permit

Activity Number
Status APPROVED

Entered By RUEWHER

Balance Due $0.00
Valuation $13,000.00

1000 SOUTH POINTE DR #C01

MARBLE AND TILE UNLIMITED
13999 BISCAYNE BOULEVARD
MIAMI 33181

BRIAN Z FRANCE
TRUSTEE OF THE BRIAN Z FRANCE REVOCABLE
1000 S POINTE DR #2001 33139

Payments made for this receipt

Current Payment Made to the Following Items:

Account Summary for Fees and Payments:

1 of 10

Project Name: MARERRO ADDITION

Location: DADE COUNTY, FL
By:
Start Date: 7/11/02
Comments: WIND LOAD CALCULATIONS

MARERRO ADDITION

July 11, 2002

Local Information

2 of 10

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.

MARERRO ADDITION

July 11, 2002

Section - Main Section

3 of 10

Enclosure Classification: Enclosed
Building Category: II

Wall	Length(ft)	Overhang(ft)
1	27.0	1.5
2	14.5	1.5
3	27.0	1.5
4	14.5	1.5

Wall Height: 20 ft
Parapet Height: 0 ft

Roof Shape: Hipped

Roof	Slope(12:
A&B	5.0
C&D	5.0

MARERRO ADDITION

July 11, 2002

Components and Cladding Input

4 of 10

Component Description	Area (sq.ft.)	Surface	Zone	Span ft	Effective Area (sq.ft.)	Area adj.
TRUSS	Roof	A	1	27.0	20	243.0
TRUSS	Roof	A	2	27.0	20	243.0
WALL	Roof	A	3	27.0	20	243.0
WALL	Wall	4	4	10.0	40	40.0
	Wall	1	5	10.0	40	40.0

MARERRO ADDITION

July 11, 2002

Components and Cladding Output

5 of 10

Component Description	Surface	Zone	P (lb)	Width	GCp	GCpi	Left Press psf	Right Press psf	Net w +GCpi psf	Net w -GCpi psf
TRUSS	A	1	21.5	42.5	0.30	0.18	12.8	5.1		20.4
			21.5	42.5	0.30		-34.0	-41.7		-38.3
			21.5	42.5		0	-34.0			
TRUSS	A	2	21.5	42.5	0.30	0.18	12.8	5.1		20.4
			21.5	42.5	-1.40		-59.5	-67.2		-61.8
			21.5	42.5	-2.20	0	-93.5			
TRUSS	A	3	21.5	42.5	0.30	0.18	12.8	5.1		20.4
			21.5	42.5	-1.40		-59.5	-67.2		-61.8
			21.5	42.5	-2.80	0	-108.3			
WALL	4	4	21.5	42.5	0.80	0.18	37.6	30.2		40.5
			21.5	42.5	-0.99		-42.1	-49.7		-34.4
WALL	1	5	21.5	42.5	0.80	0.18	37.6	30.2		40.5
			21.5	42.5	-1.19		50.5	58.2		-42.9

6 of 10

RE: REINFORCED CONCRETE BEAM
CALCULATIONS FOR BENDING AND SHEAR
ACCORDING TO ACI 318-89

SPAN =8'-0" B-1

	LIVE	DEAD
LOADS (PSF)	30	25
TRIBUTARY AREA (FT)	1	
SPAN (FT)	8	
SELF WEIGHT (LBS)	104.00	
UNIFORM LOAD (PLF)	2248.00	

Minimum Flexure Reinforcement =
As (in^2) = 0.36 (200/Fy)*b*d
Per aci 318-89, para 10.5

f'c (ksi)	3
Fy (ksi	60
B (in)	8
d (in)	13
Mu (kip-in)	215.81
As Required (in2)	0.32
Vu (kips)	8.99
ØVc/2 (kips)	4.84
Vs (kips)	5.74
Stirrup Spacing (in)	29.91
Av (in2)	0.22
ØVc/2 =	2.06

Use 2#6 =0.61in2
If this is larger
than this than stirrups are required
Use minimum ACI 318-89 requirements
Area of 2#3 hoop legs
Stirrups are required

Note: Stirrups required when 0.85*Vc/2 < Vu

Required Stirrup Spacing

WHEN Vu>0.85*Vc/2 but Vu<0.85*Vc

S = smaller of		
d/2 =	6.5	---- CONTROLS ----
Av*Fy/(50*b) =	33	
24 in =	24	

AC! 530-92 MASONRY DESIGN

Fs =	32.00 KSI	
Fy =	35.00 PSI	
Em =	1500.00 PSI	
Es =	29000.00 KSI	
Em =	1350.00 PSI	
n =	21.48	Es/Em
Fb =	968.87 PSI	4/3 INCREASE FOR WIND LOADS
Fa =	300.00 PSI	4/3 INCREASE FOR WIND LOADS

OUT OF PLANE BENDING FOR MASONRY WALLS

HEIGHT =	10.00	
REINFORCEMENT (#6@24"O.C.) =		0.38 in2/FT
B =	12.00 in	
D =	3.80 in	
rho =	0.0018	
rho'n =	0.0377	
e =	0.24	
j =	0.92	

AXIAL LOAD,P =	1.20 KIPS		
AREA OF MASONRY =	53.90 in2		
WIND LOAD =	60.00 PSF	MOMENT =	5.00

fa =	471.48 psi		
fb =	18.78 psi		
fa/Fa + fb/Fb =		0.77 < 1.0	OK

CHECK FOR EXISTING

WALL LOAD CASE

ROOF 55psf x 27½' = 742 #/ft

WALL MISC. 65psf x 8'-0" = 650 plf

NEW B-1 = 77 pcf x 8'x16" = 133 #/ft

NEW WALL = 68psf x 45½ = 122 #/ft.

LOAD @ GIRDER = RECEIVE = 13,824# ✓

EXIST WALL LOAD = 65psf x 10' = 650 #/ft

EXIST GABLE BEAM = 75 x 10' x 24' = 600 #/ft / 45 = 45 #/ft

EXIST COL = 8"x16"x150 x 10' = 333 #

PILE SPAN = 12' x 250 #/ft = 12600 #

COLUMN = 333 #

13,933 #

- NO LOAD 13,824 #

$ 27.6 #

EXISTING PILE CAPACITY ADEQUATE

PILES: 30 TON CAPACITY 27.6 #/2000 # = 13.8 TONS

30 TONS ≥ 13.8 TONS OK

ZONING LEGEND

FOLIO NO 07-4140-026-0000-00

ZONING RS SINGLE FAMILY RESIDENCE

HEIGHT 35'-0" TO RIDGE OF ROOF		30'-0"
LOT COVERAGE 40% OF NET LAND 8414 SF		3363.20 SF ALLOWED
MIN. GREEN SPACE REQUIRED 60% OF NET LOT AREA		5048 SF
PROPOSED GREEN AREA		5713 SF
EXISTING NONCONFORMITY EXISTING ACCESSORY		384 SF

SETBACKS	PROVIDED	REQUIRED
FRONT	35'-0"	25'-0"
SIDE	7'-6"	7'-6"
SIDE	7'-6"	7'-6"
REAR	44'-0"	5'-0"

ALL FILL TO BE PLACED TO COUNTY FLOOD CRITERIA ELEVATION 9' NGVD OR AS REQUIRED BY BUILDING, BUT NO LESS THAN THE HIGHEST APPROVED CROWN ELEVATION OF THE PUBLIC ROAD FRONTING THE PROPERTY.

AREAS ADJACENT TO LAKE OR CANAL TO BE GRADED SO AS TO PREVENT DIRECT OVERLAND DISCHARGE OF STORM WATER TO LAKE OR CANAL.

LOT TO BE GRADED SO AS TO PREVENT DIRECT OVERLAND DISCHARGE OF STORM WATER ONTO ADJACENT PROPERTY.

APPLICANT TO PROVIDE CERTIFICATION PRIOR TO FINAL INSPECTION BY ENGINEER OF RECORD.

IN THE EVENT OF ANY DISCREPANCY BETWEEN THE REQUIREMENTS OF THIS PERMIT THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY SECTION 553.73 F.S. OF FLORIDA STATUTES SPECIFIC TO THIS PERMIT.

A SEPARATE PERMIT SHALL BE REQUIRED FOR ALL DRIVEWAY APPROACHES CONTACT PUBLIC WORKS DEPT.

HEDGES OR FENCES SHALL AND HEDGES SHALL NOT EXCEED 3.5 FEET WITHIN 10 FEET OF THE EDGE OF ANY DRIVEWAY LEADING TO A RIGHT OF WAY.

HEIGHT OF FENCES SHALL BE MEASURED FROM GRADE GRADE + ELEVATION OF PUBLIC SIDEWALK OR CROWN OF ROAD

FLOOD LEGEND

RESIDENTIAL CONSTRUCTION

LOT BLOCK

ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK PAGE OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.

HIGHEST CROWN OF ROAD ELEVATION IS FOUND HIGHEST CROWN OF ROAD ELEVATION

AS TAKEN FROM THE ATTACHED CERTIFIED SURVEY OR CERTIFIED SURVEY PREPARED BY

OLIVER G. MONEAL REG. L.S. NO.

SURVEY DATE

	LOWEST FLOOR ELEVATION	GARAGE FLOOR ELEVATION	ALTERNATE GARAGE ELEVATION	SLAB ELEVATION
PROPOSED	9.50	9.00	9.00	9.00

ALL ELECTRICAL, MECHANICAL AND PLUMBING WILL BE PLACED AT OR ONE FOOT ABOVE THE BASE FLOOD ELEVATION OR HIGHER.

ALL AREAS BELOW BFE SHALL BE PROVIDED WITH A MINIMUM OF TWO OPENINGS HAVING A TOTAL NET AREA OF NOT LESS THAN ONE SQUARE INCH OF OPENING FOR EVERY ONE SQUARE FOOT OF ENCLOSED AREA SUBJECT TO FLOODING. THE BOTTOM OF ALL OPENINGS SHALL BE NO HIGHER THAN ONE FOOT ABOVE GRADE AND LOCATED ON A PERIMETER WALL OF THE ENCLOSED AREA. OPENINGS SHALL BE EQUIPPED WITH SCREENS OR LOUVERS. FLOOD RESISTANT MATERIALS SHALL BE USED BELOW BFE.

ALTERNATE ELEVATION CERTIFICATION BY SHALL BE ON THE PLANS NOTES INDICATING THAT THE DESIGN WAS ALLOWED FOR THE HYDROSTATIC EQUALIZATION OF INTERIOR AND EXTERIOR FLOOD FORCES ON EXTERIOR WALLS.

THE SITE SHALL BE GRADED IN A MANNER TO PREVENT THE FLOODING OF ADJACENT PROPERTIES. WHERE NECESSARY, INTERCEPTOR SWALES SHALL BE CONSTRUCTED ON THE PROPERTY TO PREVENT EXCESSIVE RUNOFF OVER ADJACENT PROPERTIES.

DATE

TWO STORY BUILDING
FIN. FLOOR ELEVATION
9.50 NGVD

SEE SEE BLOCK

SEE SEE BLOCK

4'-0" LOW WALL

1 1/4" CWLINE FROM METER

WATER METER LOCATION ON FIELD

SIDE SETBACK

LEGAL DESCRIPTION:

BEING A PORTION OF LOT 1, WOODSIDE ESTATES ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 29, PAGE 52, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS BEING AT THE SOUTHWEST CORNER OF SAID LOT 1, WOODSIDE ESTATES, THENCE N00°43'39"W ALONG THE WEST LINE OF SAID LOT 1, A DISTANCE OF 210.69 FEET (MORE OR LESS) TO THE WATERS OF LOXAHATCHEE RIVER; THENCE N87°01'43"E ALONG THE WATERS OF THE LOXAHATCHEE RIVER, A DISTANCE OF 39.60 FEET; THENCE S89°16'19"E CONTINUING ALONG THE WATERS OF THE LOXAHATCHEE RIVER, A DISTANCE OF 37.40 FEET; THENCE S88°00'01"E CONTINUING ALONG THE WATERS OF THE LOXAHATCHEE RIVER, A DISTANCE OF 7.87 FEET TO THE NORTHEAST CORNER OF THE PROPOSED LOT 1A; THENCE S00°06'13"W ALONG THE EASTERLY LINE OF SAID PROPOSED LOT 1A, A DISTANCE OF 209.39 FEET (MORE OR LESS) TO A POINT ON THE SOUTH LINE OF SAID LOT 1; THENCE S88°16'54"W ALONG SOUTH LINE OF LOT 1, A DISTANCE OF 86.76 FEET, TO THE POINT OF BEGINNING

SITE PLAN

SCALE: 1"=10'-0"

N

As per Florida Building Code Section 104.5.3
REVIEWED FOR CODE COMPLIANCE

ROAD IMP. FEE SCHOOL IMPACT FEE NOT REQUIRED
JUL 11 2002
MIAMI-DADE COUNTY APPROVED

DESIGN

Emilio R. Pinero
Certificate No.
State of Florida

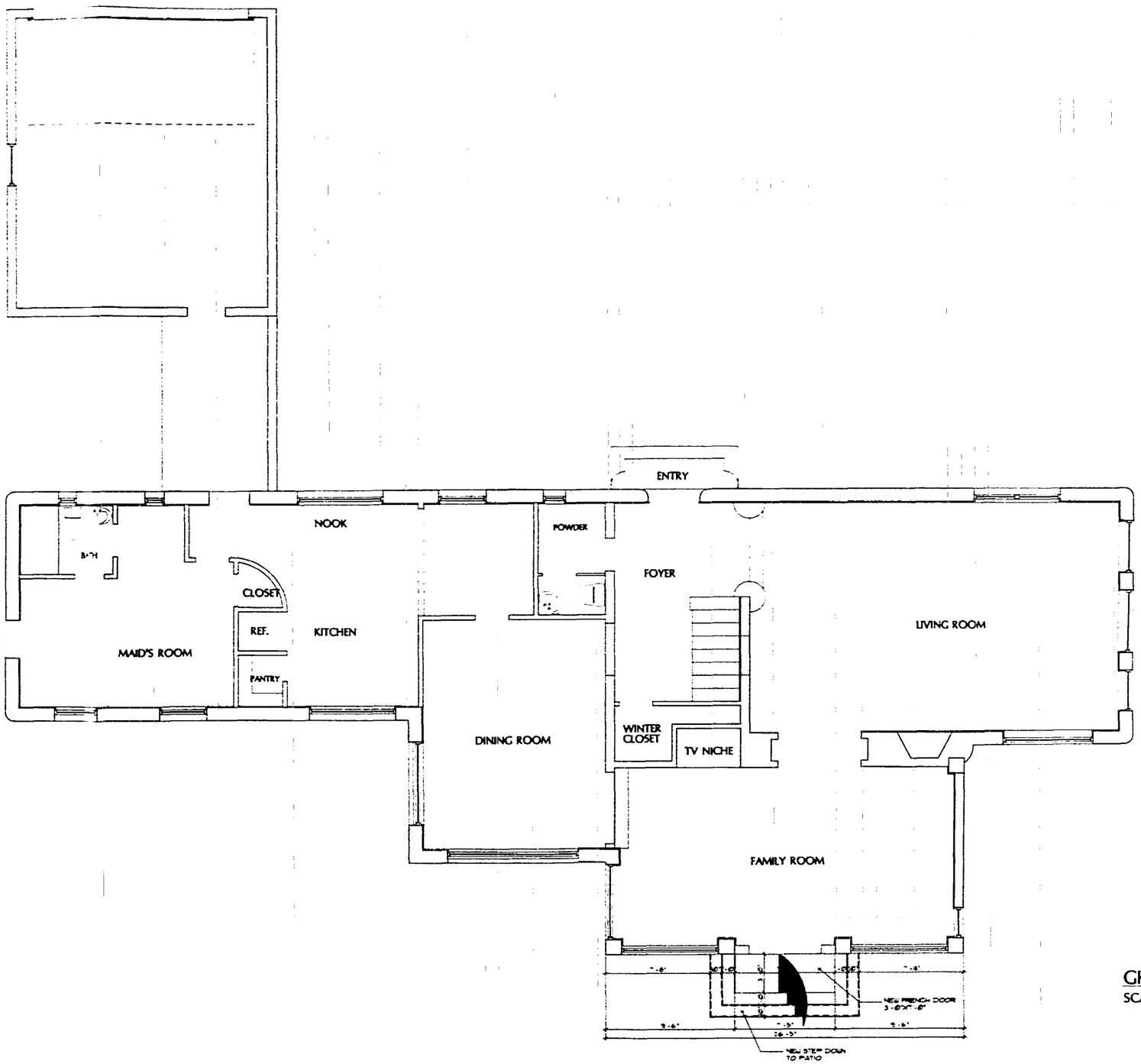
EXT. BALCONY CONVERT TO BATH
4230 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA
TELEPHONE: 305 444-4

REVISIONS
1.
2.
3.
4.

DATE: NOVEMBER-OCT.2001
SCALE: SHOWN
DRAWN: O.P.
JOB NO.: 2001-NOVEM

SP

SHEET NO.: OF



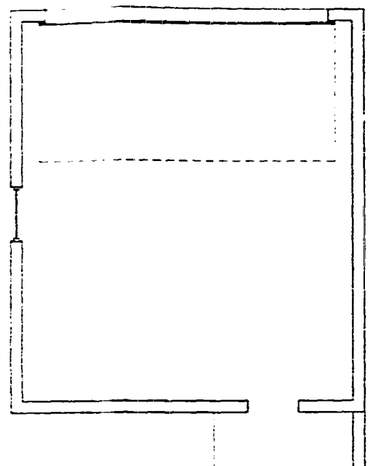
GROUND FLOOR PLAN
SCALE:1/4"=1'-0"

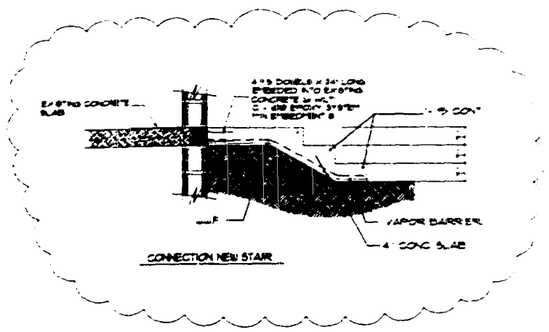
EXT.BALCONY CONVERT TO BATH
4230 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA
TELEPHONE (305) 446-0661

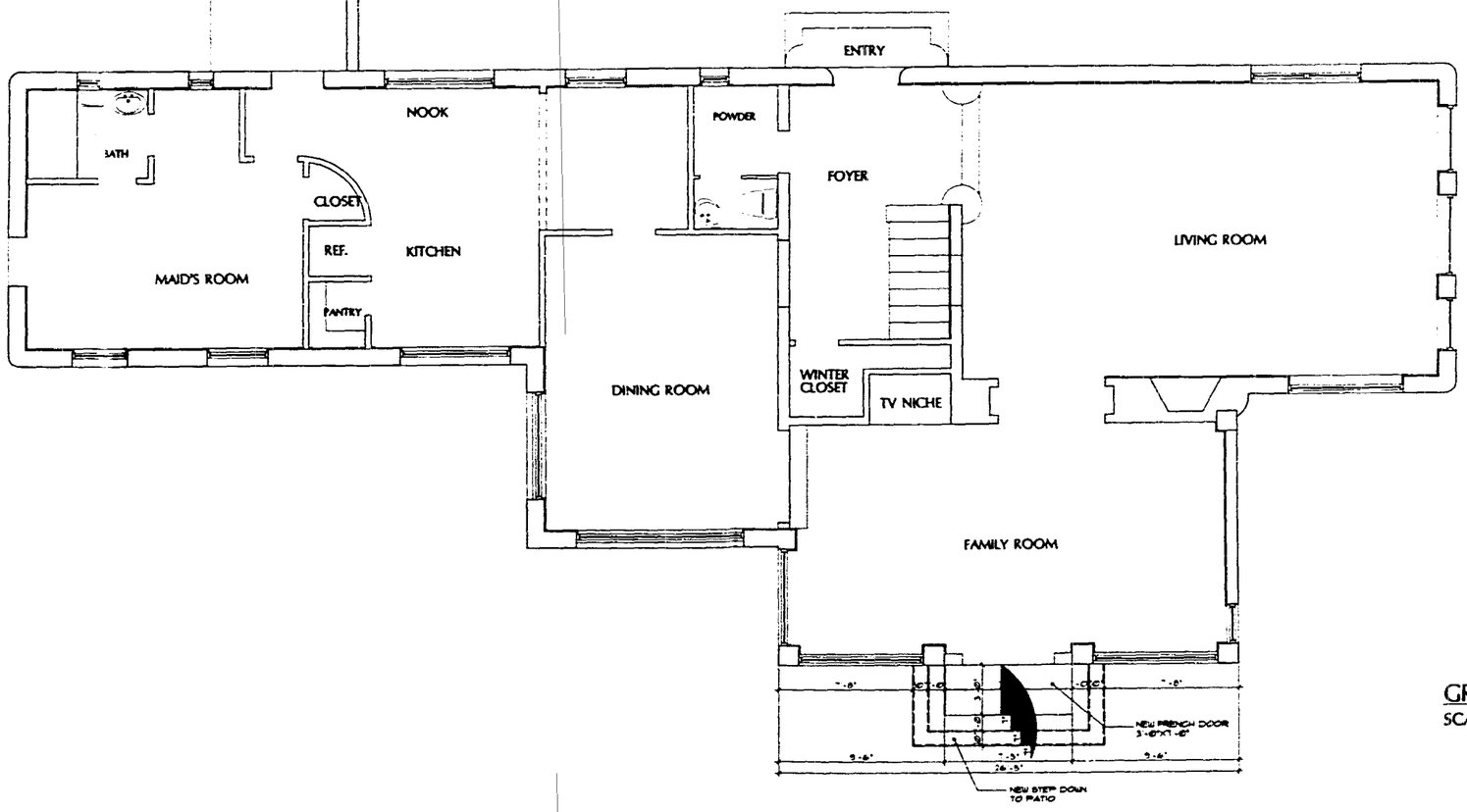
REVISIONS :

DATE : MONTH-DAY-2000
SCALE : SHOWN
DRAWN : D.P.
JOB NO. : 2000-MONTH#

A-1
SHEET NO. : 1 OF 10







REVIEWED FOR CODE COMPLIANCE

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

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

GROUND FLOOR PLAN
SCALE:1/4"=1'-0"

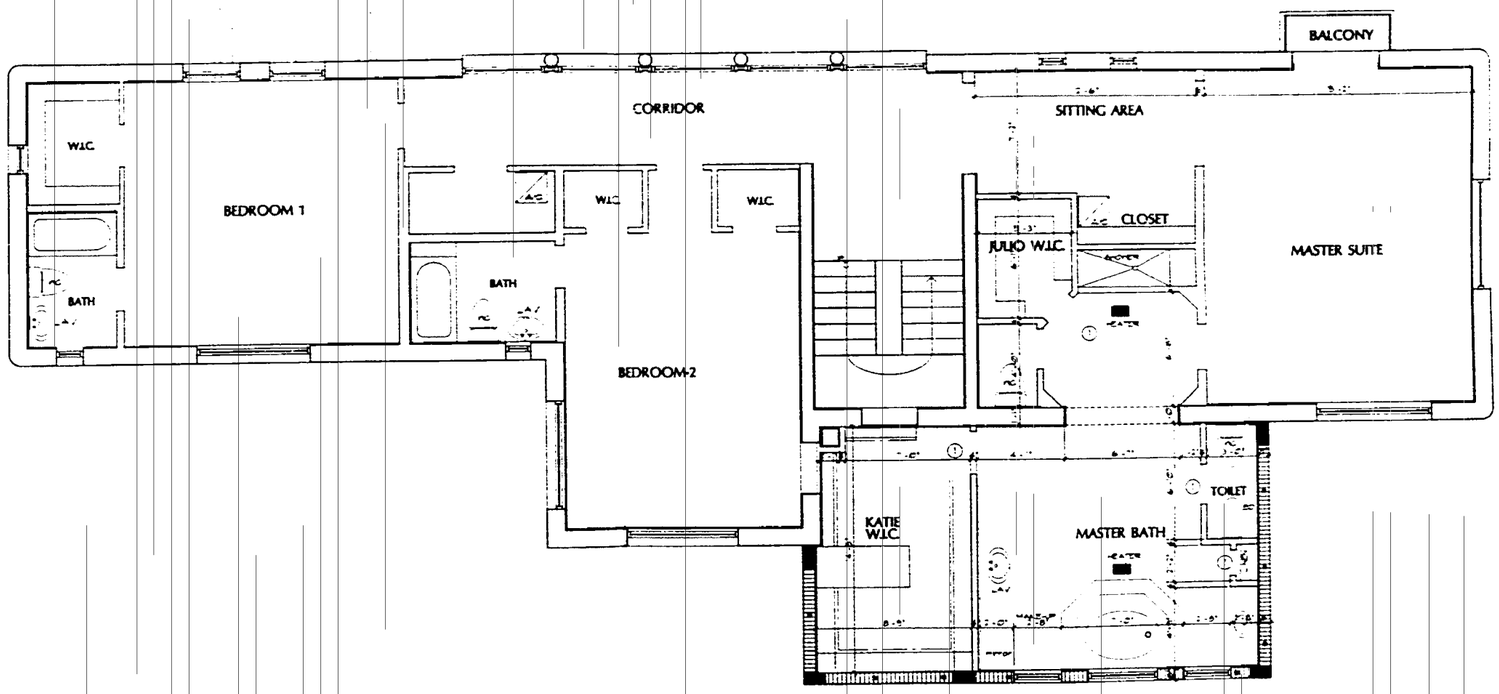
Emilio R. Pinero

PROJECT DESCRIPTION: EXISTING RESIDENCE ADDITION AND RENOVATIONS

4220 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA
TELEPHONE: (305) 446-0663

DATE
SCALE
DRAWN
JOB NO.

A-1
SHEET NO.



SECOND FLOOR PLAN

SCALE: 1/4"=1'-0"

REVIEWED

EXT. BALCONY CONVERT TO ENCLOSED

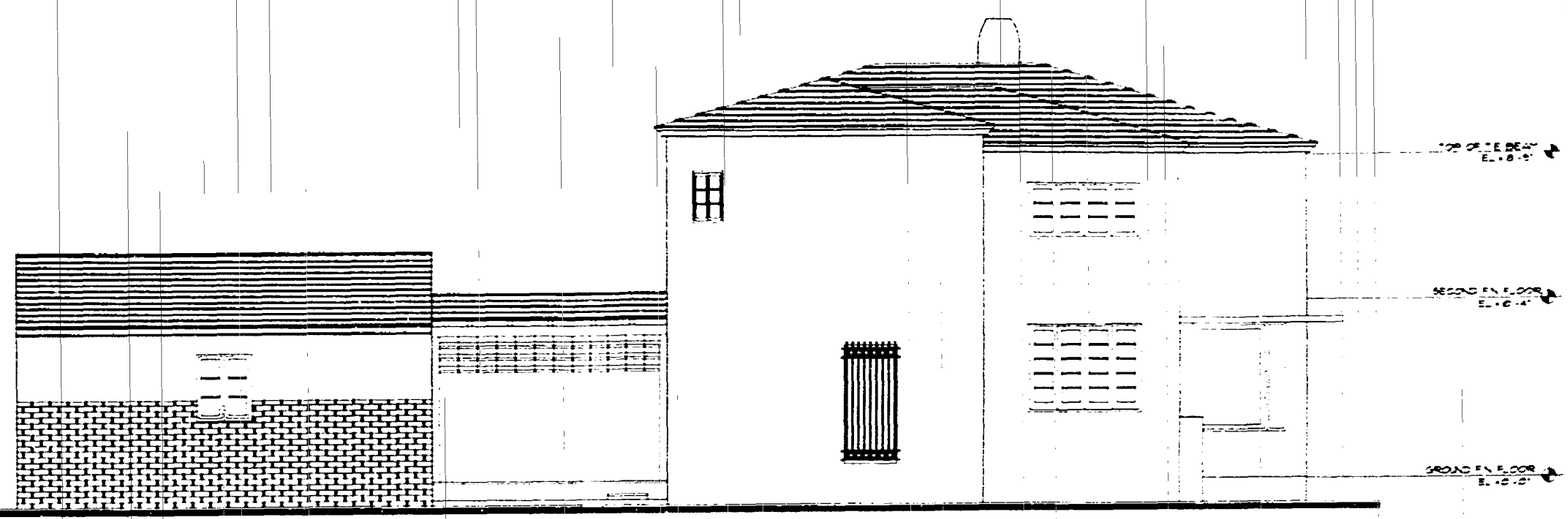
4220 NORTH BAY RD.

MR. JULIO MARRERO

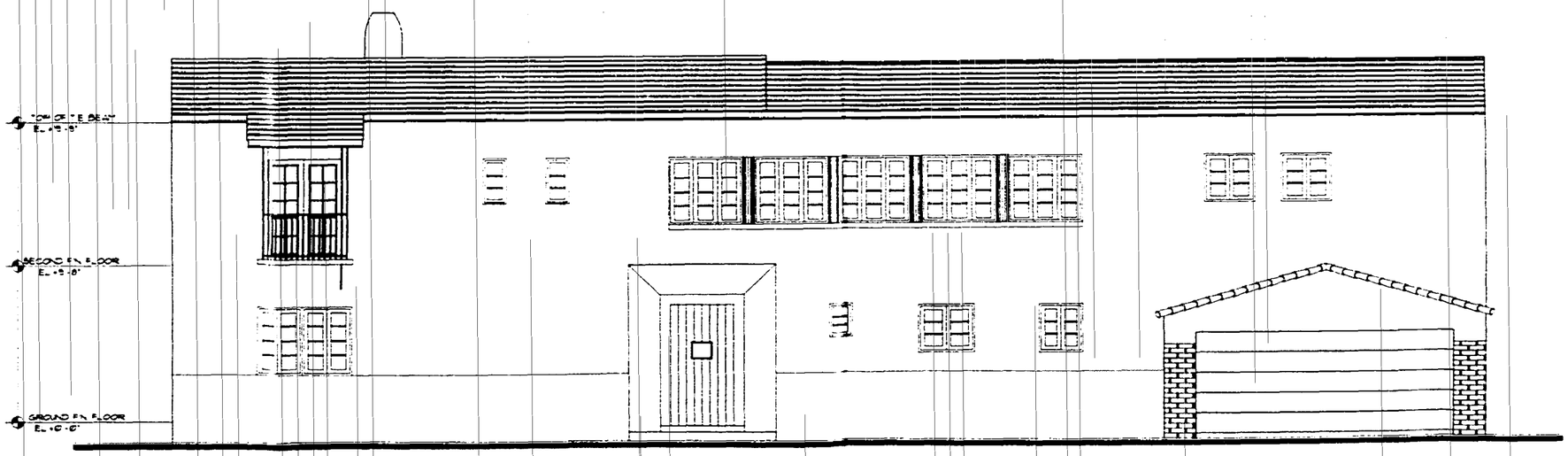
MIAMI BEACH, FLORIDA

TELEPHONE: (305) 446-0363

A-2



RIGHT ELEVATION 1/4"



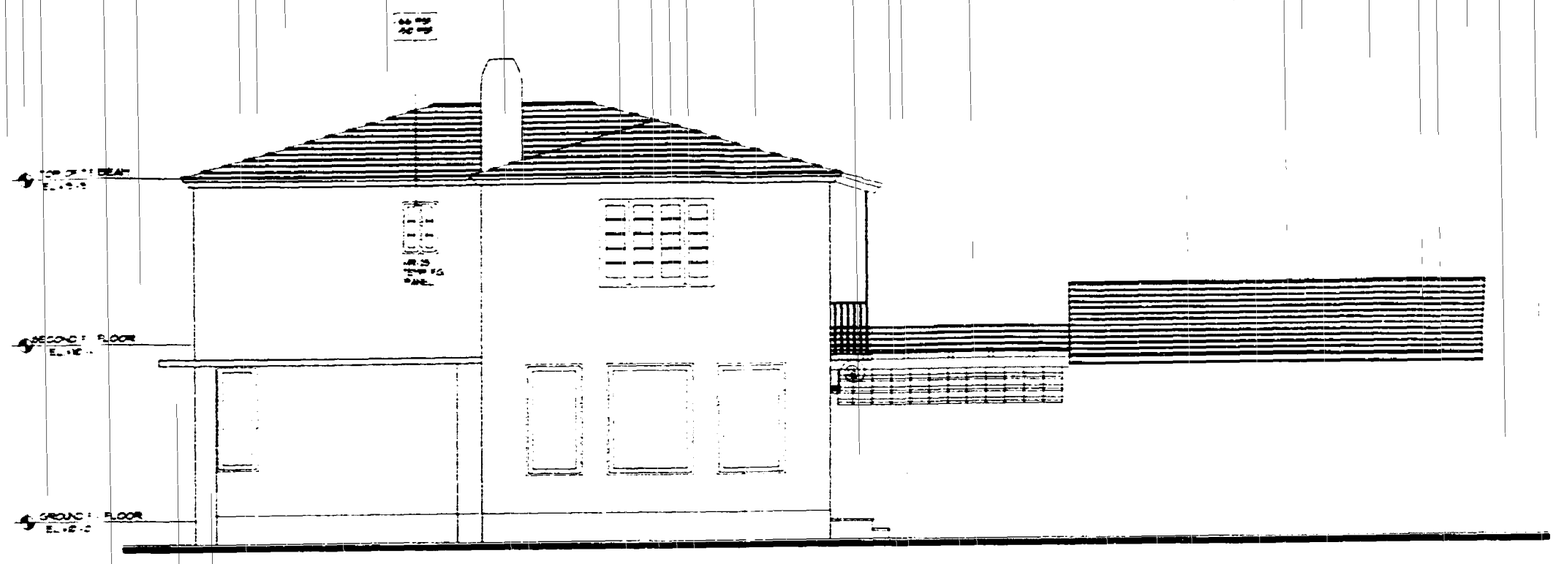
FRONT ELEVATION 1/4"

Design

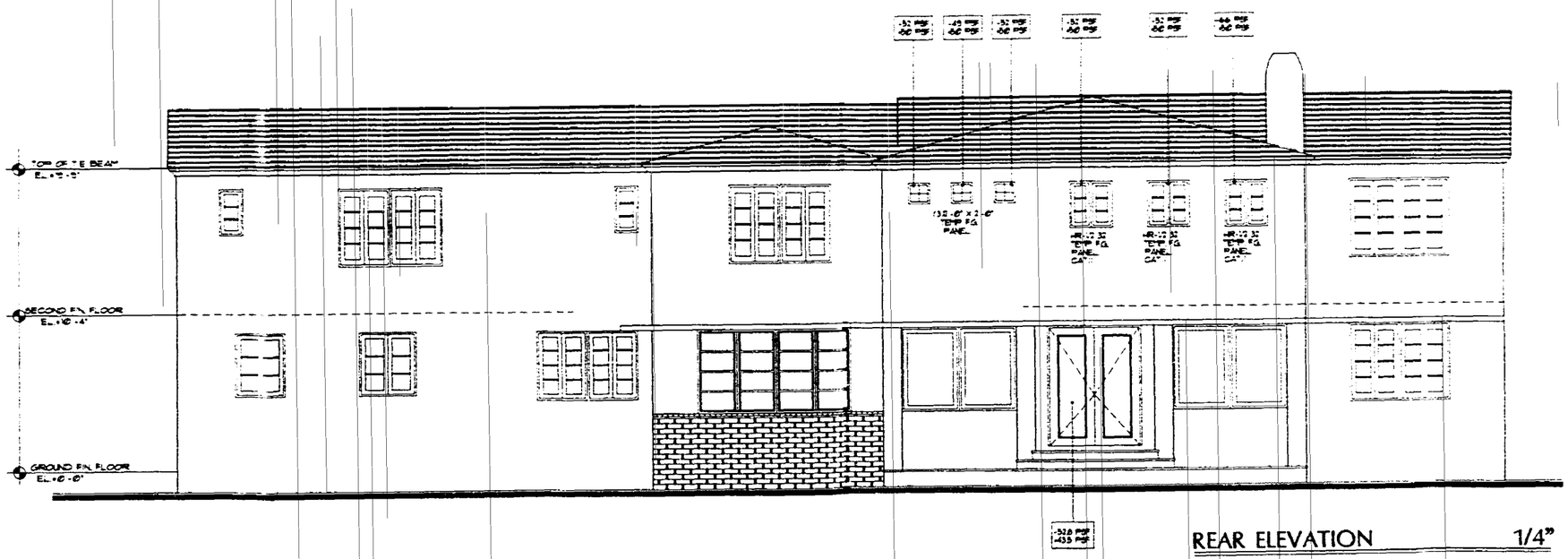
Emilio A. Pinero

EXT BALCONY CONVERT TO BATH
4230 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA

A-3



LEFT ELEVATION 1/4"



REAR ELEVATION 1/4"

REVIEWED FOR CODE COMPLIANCE

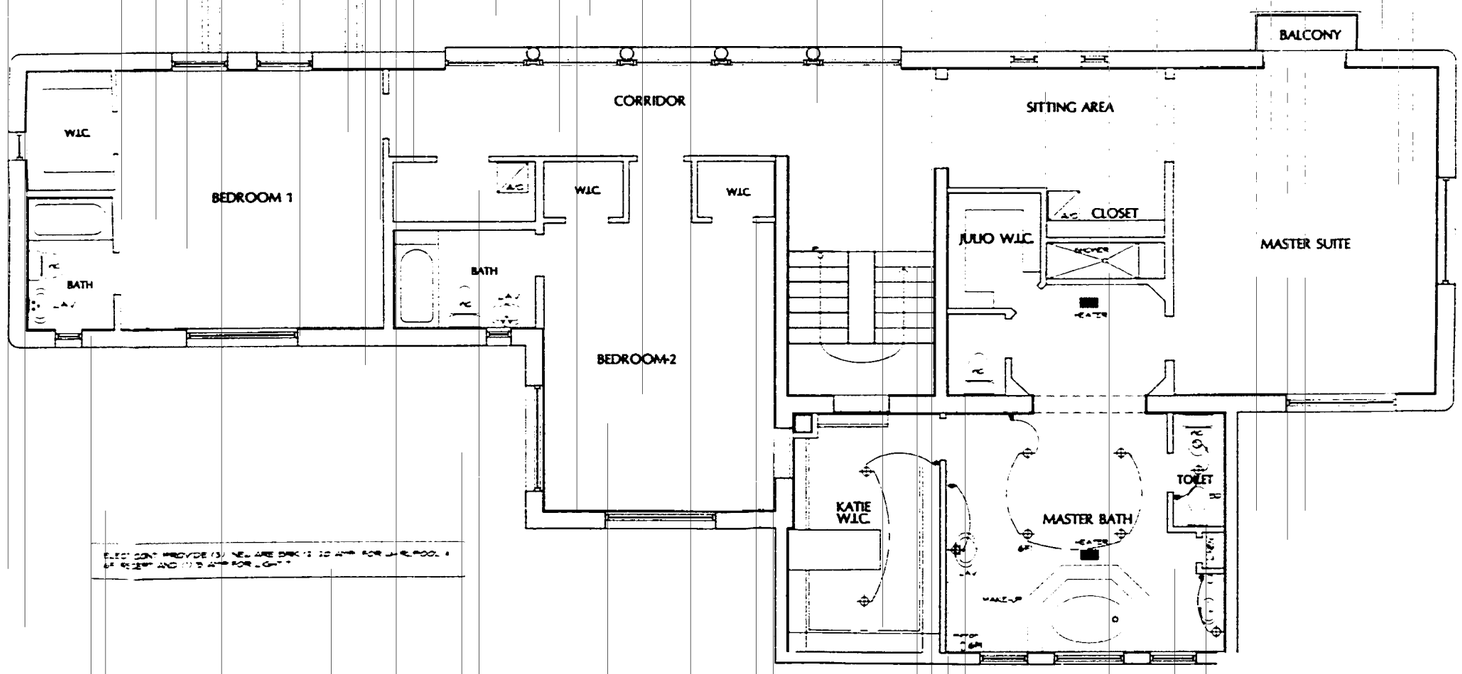
EXTERIOR ELEVATIONS

4230 NORTH BAY RD.

MR. JULIO MARRERO

MIAMI BEACH, FLORIDA

A-4



SECOND FLOOR PLAN

Design

Consulting Engineer State of Florida
Emilio R. Piñero
Professional Engineer

EXT BALCONY CONVERT TO BATH

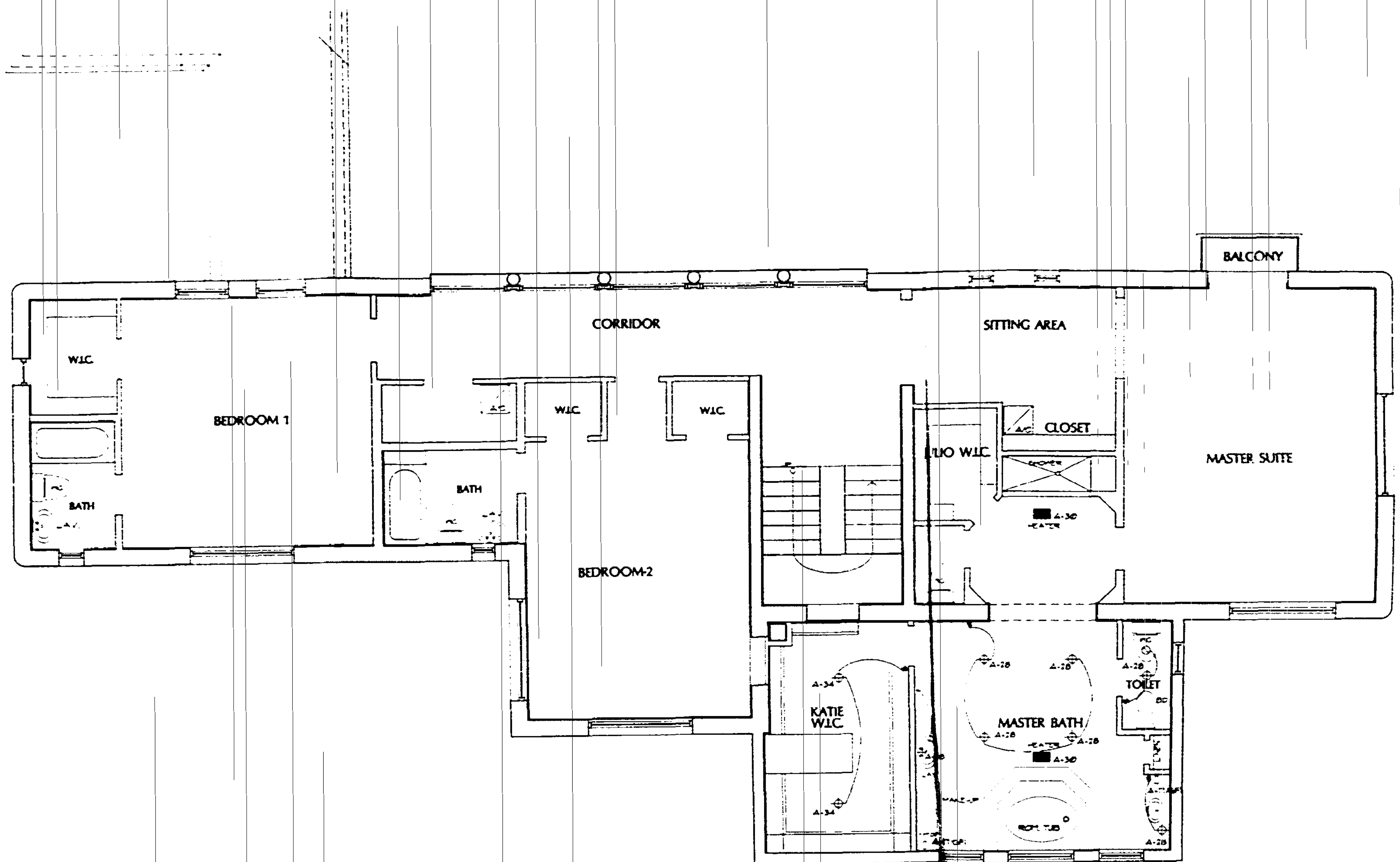
4220 NORTH BAY RD.

MR. JULIO MARRERO

MIAMI BEACH, FLORIDA

TELEPHONE: (305) 446-0661

E-1



SECOND FLOOR PLAN

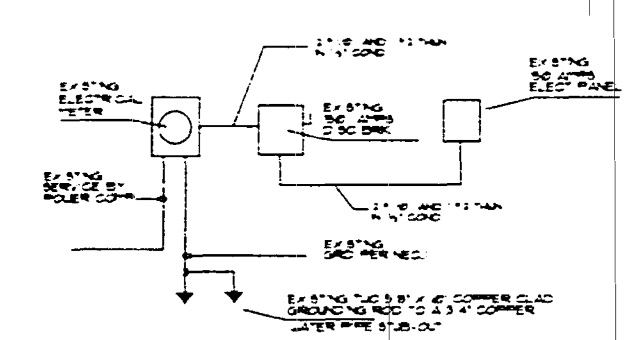
SCALE: 1/4"=1'-0"

CONTRACTOR SHALL FURNISH ALL LABOR MATERIALS AND EQUIPMENT FOR COMPLETE ELECTRICAL INSTALLATION IN ACCORDANCE WITH THESE DRAWINGS

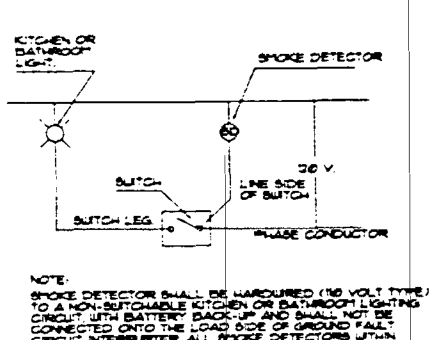
2. COMPLY WITH THE NEC AND THE SOUTH FLORIDA BUILDING CODE
3. PROVIDE EMPTY CONDUITS AS REQUIRED FOR TELEPHONE SYSTEM
4. OBTAIN ALL PERMITS FOR WORK UNDER THIS CONTACT
5. PROVIDE TEMPORARY POWER AND LIGHT OUTLETS FOR USE BY OTHER TRADES
6. NO APPLIANCES OUTLETS SHALL BE INSTALLED BELOW BASE FLOOD ELEV.
7. COORDINATE ALL OUTLET LOCATIONS WITH BUILDING ARCHITECTURAL FEATURES
8. CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS
9. A/C COMPRESSOR SHALL BE INSTALLED ABOVE BASE FLOOD ELEV.
10. OUTDOOR CONDUITS SHALL BE SCHEDULE 40 PVC MINIMUM COVER SHALL BE 24"

ALL MOUNTING HARDWARE SHALL BE BY CONTRACTOR

12. ELECTRICAL OUTLETS BELOW BASE ELEV SHALL BE INSTALLED AT THE HIGHEST PERMITTED ELEV AND SHALL BE INSTALLED (SEPARATE) AS INDEPENDANT CIRCUITS FROM THOSE IN THE HABITABLE AREAS
13. MAIN CIRCUIT BRK PANELS SHALL BE LOCATED ABOVE BASE FLOOD ELEV
14. IT IS REQUIRED THAT COPPER WITH FPL TO LOCATED THE ELECT METER TO COMPLY W FEDERAL EMERGENCY MANAGEMENT AGENCY REQUIREMENTS



RISER DIAGRAM



NOTE:
SMOKE DETECTOR SHALL BE HARDWIRED (110 VOLT TYPE) TO A NON-SWITCHABLE KITCHEN OR BATHROOM LIGHTING CIRCUIT WITH BATTERY BACK-UP AND SHALL NOT BE CONNECTED ONTO THE LOAD SIDE OF GROUND FAULT CIRCUIT INTERRUPTER. ALL SMOKE DETECTORS WITHIN EACH UNIT SHALL BE INTERCONNECTED

SMOKE DETECTOR CONNECTION DETAIL NTS.

EXIST'G ELECTRICAL LOAD CALCULATION

A - GENERAL LIGHTING LOAD
1630 SF. x 3W/SF = 4890 WATTS

B - (2) SMALL APPLIANCE CIRCUITS X 1500 = 3000 WATTS

C - FIXED APPLIANCES RANGE 12,000
REFRIGERATOR 1,000
DISHWASHER 1200
WASHER 1500
DRYER 5,000
WATER HEATER 4500

CONNECTED LOAD LESS A/C = 33,090 WATTS
10,000 W x 100% = 10,000 WATTS
REST W x 40% = 9236
(A/C (or heating) x 100% = 10000 WATTS
DEMAND LOAD = 29236 /240 WATTS = 122 AMPS @ 240/120 V
SERVICE SIZE = 150 AMPS

D - NEUTRAL LOAD
LIGHTING, SMALL APPLIANCE + WASHER 9390 WATTS
FIRST 3,000 W x 100% = 3,000 WATTS
REST W x 35% = 2236 WATTS
RANGE x 70% = 8400 WATTS
DRYER x 70% = 3200 WATTS
REFRIGERATOR = 1000 WATTS
DISHWASHER = 1200 WATTS

TOTAL NEUTRAL WATTS = 19336 WATTS = 81 AMPS

EXIST PANEL

TYPE : SQUARE "D" or APPROVED EQUAL
SERVICE :
VOLTAGE : 240/120 V 1Ø - 3 W
MOUNTING : SURFACE

MAIN BUS : 150 AMPS
NEUTRAL : 150 AMPS
MAINS : 150 AMPS
A/C : 10000

AMPS	POL	TOTAL VA	COND SIZE	WIRE	REMARKS	CKT NO	CKT NO	REMARKS	WIRE	COND SIZE	TOTAL VA	POLES	AMPS
60	2	10000	1"	6	A/C AHU-1	1	2	RANGE	6	"	5000	2	50
						3	4						
30	2	5000	3/4"	10	DRYER	5	6	A/C COMP-1	8	3/4"	6300	2	40
						7	8						
25		4500	1/2"	10	WATER HEATER	9	10	DISHWASHER	12	1/2"	1200	1	20
						11	12	BATH GFI RECEPTACLE	12	1/2"	600	1	20
20		1500	1/2"	12	WASHER	13	14	SMALL APPL.	12	1/2"	1500	1	20
					SPACE	15	16	SMALL APPL.	12	1/2"	1500	1	20
20		600	1/2"	12	RECEP OUT-GFI	17	18	REFRIGERATOR	12	1/2"	1500	1	20
15	1	600	1/2"	14	GEN LT & RECEP	19	20	GEN LT & RECEP	14	1/2"	600	1	15
						21	22						
						23	24						
						25	26						
15	1	600	1/2"	14	NEW GEN LT & RECEP	27	28	NEW GEN LT & RECEP	14	1/2"	600	1	15
15	1	600	1/2"	14	NEW GEN LT & RECEP	29	30	ELECT. HEATER	12	1/2"	600	1	20
					SPACES	31	32	NEW GEN LT & RECEP	14	1/2"	600	1	15
						33	34	NEW GEN LT & RECEP	14	1/2"	600	1	15
						35	36	SPACES					
						37	38						
						39	40						

DEMAND LOAD 29236 WATTS = 122 AMPS

FEEDER : 2 # 1/0 AND 1 # 2 THWN IN 1½" COND.
FED FROM : SERVICE

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED ... PERMIT BY

ELECT. LEGEND

- Wall Switch 15 A 125 V
- Duplex Receptacle 15 A 125 V
- Incandescent Lighting Fixture
- Wall Bracket Light
- Junction Box
- Phone Outlet
- T.V. Outlet
- Electrical Panel
- Disconnecting Switch
- Smoke Detector
- Electrical Meter

As per ... REVIEWED

CASCAIS FAMILIES & ASSOCIATES Design

Consultants Engineer State of Florida
Emilio R. Pinero

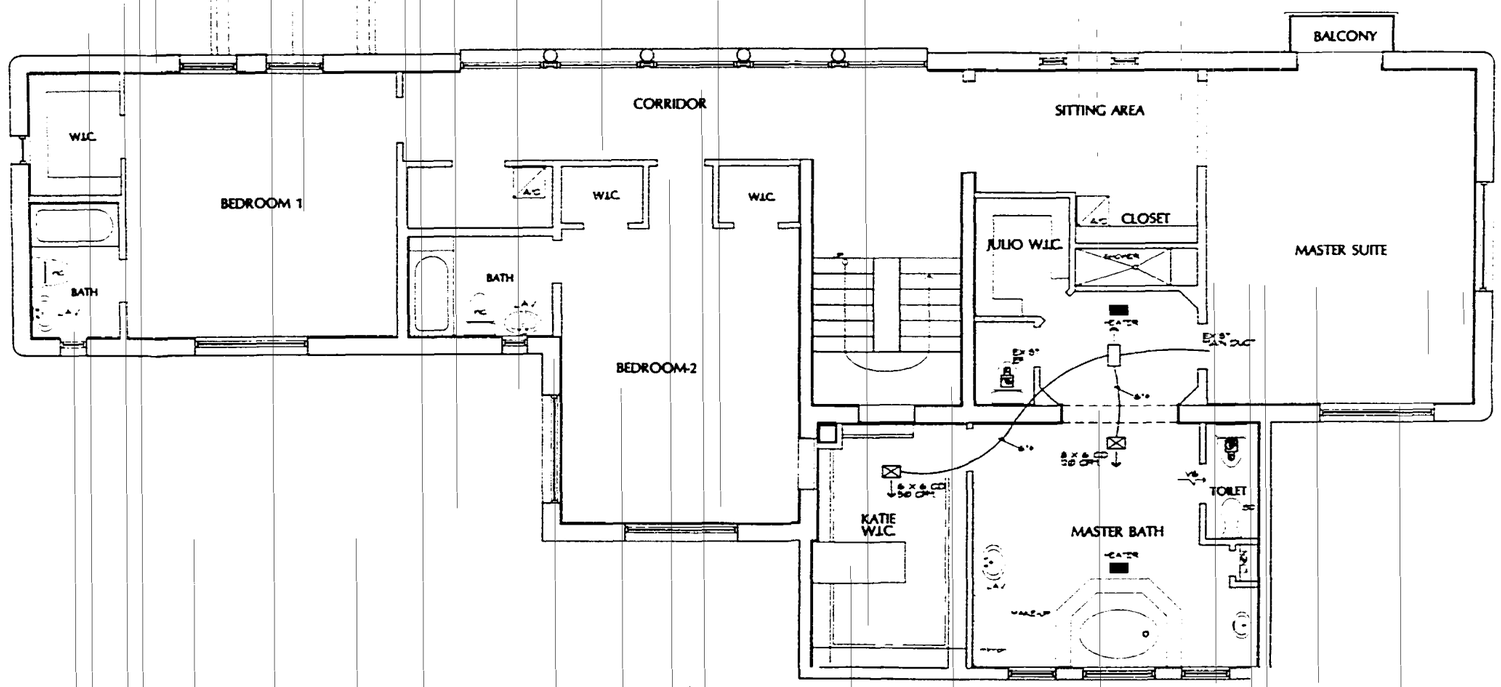
FOUNDATION REPAIR TO EXISTING BUILDING AT
4230 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA
TELEPHONE: (305) 446-0863

REVISIONS :
1-
2-
3-
4-

DATE :
SCALE : SHOWN
DRAWN :
JOB NO. :

E-1

SHEET NO. :



SECOND FLOOR PLAN

SCALE: 1/4"=1'-0"

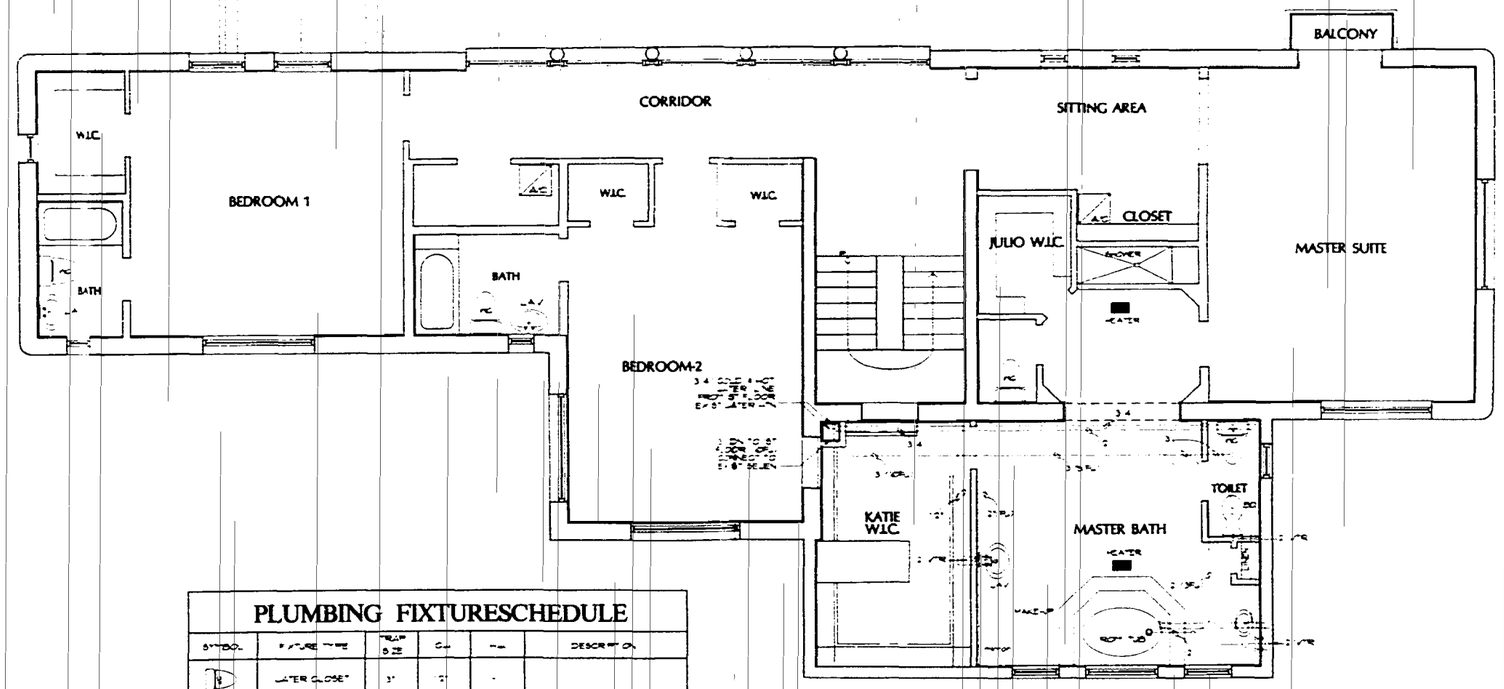
REVIEWED

EXT. BALCONY CONVERSION TO BAR

4230 NORTH BAY RD.

MR. JULIO MARRERO

M-1



PLUMBING FIXTURESCHEDULE

SYMBOL	FIXTURE TYPE	TRAP SIZE	C.W.	H.W.	DESCRIPTION
	WATER CLOSET	3"	1/2"	-	
	LAVATORY	1 1/2"	1/2"	1/2"	
	BOTTOM TUB	2"	1/2"	1/2"	WALL SCALD VALVES

NOTE
ALL DRAIN PIPING UNDER SLAB SHALL BE 2" MIN.
2" & LESS D.A. DRAIN @ 1/4" DROP
3" & 4" LESS D.A. DRAIN @ 1/8" DROP

SECOND FLOOR PLAN
SCALE: 1/4"=1'-0"

As per Fl... REVIEWED

OFFICE COPY
...EACH

FOUNDATION PLAN & ELECTRICAL PLAN
4220 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA.

Emilio L. Pinero

P-1

CONCRETE BEAM SCHEDULE

BEAM MARK	BEAM TYPE	TOP OF TIE BEAM ELEV.	WIDTH	HEIGHT	REINFORCING T	REINFORCING MID.	REINFORCING B	#3 STIRRUPS	REMARKS
"B"	A		8"	12"	2#5	2#5	2#5	#6 @ 8" O.C.	SEE NOTES BELOW
B	B		8"	16"	2#5	2#5	2#5	#6 @ 8" O.C.	

BEAM TYPES

TYPE - A TYPE - B

CONCRETE BEAM NOTES:
1. ARCHITECT TO REVIEW AND APPROVED ALL BEAM ELEVATIONS AND BEAM DEPTHS
2. TIE BEAMS SHALL HAVE #3 TIES AT 8" O.C. AT ALL CORNERS EACH END AND 48" O.C. REMAINDER
3. PROVIDE 2#5 x 60" CORNER BARS BENT 90° EACH WAY @ ALL CORNERS

COLUMN SCHEDULE

MARK	COL. TYPE	DIMENSIONS	REINFORCEMENT V	REINFORCEMENT TIES	REMARKS
C	A	8" x 8"	4#5	#3 @ 8" O.C.	CONCRETE COLUMN F'C = 3000 PSI
C1	A	8" x 8"	4#5	#3 @ 8" O.C.	CONCRETE COLUMN F'C = 3000 PSI

COLUMN TYPES

TYPE - A

NEW 8"x8"x16" CMU WALL REINF AS PER PLANS

NEW 8"x16" CONC BEAM W/ 2#5 TOP & BTM #3 TIES @ 8" OC

2#5 VERTICAL REINF DOWELS x 18" LONG EMBEDDED INTO EXISTING BLOCK W/ HILTI C-100 EPOXY SYSTEM W/ EMBEDMENT 6"

EXISTING 6"x16"x16" MASONRY BLOCK

SAW CUT AND REMOVE EXISTING BLOCK COURSE TO BE FLUSH WITH EXISTING BLOCK

SECTION

NEW BEAM B-1 DETAIL

NEW 8" CMU WALL

NEW CONC BEAM B-1 (SEE SCHEDULE)

#5 x 12" LONG DOWEL EMBEDED INTO EXIST CONCR BEAM W/ HILTI C-100 EPOXY SYSTEM W/ EMB 4"

2 X 6 PT WOOD NAILER ATTACHED TO CONC W/ 1/2" DIAM EXP. ANCHORS @ 16" O.C.

EXISTING CONCRETE BEAM

NAILER DETAIL 2 / A-2

NEW 2 X 12 WOOD JOISTS @ 12" O.C.

NEW BEAM B-1 DETAIL

1½" CLEAR COVER ALL AROUND

NEW CONCRETE COLUMN W/ 4 #5 VERTICAL REINF BARS AND #3 TIES @ 8" O.C.

4 #5 STARTER BARS EMB. INTO EXIST COLUMN W/ HILTI C-100 EPOXY SYSTEM (MIN. EMB 9") NEW CONCRETE COLUMN W/ 4 #5 VERTICAL REINF BARS AND #3 TIES @ 8" O.C.

30" SPLICES

5'

EXISTING COLUMN

COLUMN CONTINUATION DETAIL

3/4" PLYWOOD DIAPHRAGM W/ 10d NAILS @ 6" O.C. @ INT. SUPPORTS AND AT PANEL EDGES PLYWOOD SHALL BE GLUED W/ ADHESIVES MEETING REQUIREMENTS OF AFG-01 (TYPICAL).

2"x12" PT WOOD JOISTS @ 12" O.C.

(2) 2"x12" PT LEDGER FASTENED TO TIE THE BEAM W/ 3/4" DIAM HILTI EXPANSION ANCHORS @ 12" O.C. (4-3/4" EMBEDMENT).

TYPICAL LEDGER DETAIL 1 / A2

EXISTING CONCRETE FILLED CELLS OR COLUMN

4 #5 DOWELS X 16" LONG EMBEDED INTO EXISTING CONCRETE W/ HILTI C-100 EPOXY SYSTEM MIN EMBEDMENT 4"

NEW CONCRETE BEAM B-1 SEE SCHEDULE

NEW B-1 TO EXISTING WALL CONNECTION 3 / A-2

CORRIDOR

SITTING AREA

BALCONY

W.I.C.

BEDROOM 1

BATH

W.I.C.

W.I.C.

BATH

BEDROOM-2

JULIO W.I.C.

CLOSET

MASTER SUITE

HEATER

KATIE W.I.C.

MASTER BATH

TOILET

2"x6" PT WOOD NAILER ATTACHED TO CONCRETE W/ 1/2" DIAM EXP ANCHORS @ 16" O.C.

2"x6" PT WOOD BLOCKING BETWEEN EA JOIST @ MID SPAN ATTACHED W/ 16d NAILS EA PC

2"x12" PT WOOD LEDGER ATTACHED TO CONCRETE W/ 3/4" DIAM EXP ANCHORS @ 16" O.C. MIN EMB 4-3/4"

2"x12" PT WOOD JOISTS @ 12" O.C.

FRAMING PLAN
SCALE: 1/4"=1'-0"

SECOND FLOOR PLAN
SCALE: 1/4"=1'-0"

REVIEW

FOUNDATION PLAN

4230 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA
TELEPHONE: (305) 446-0663

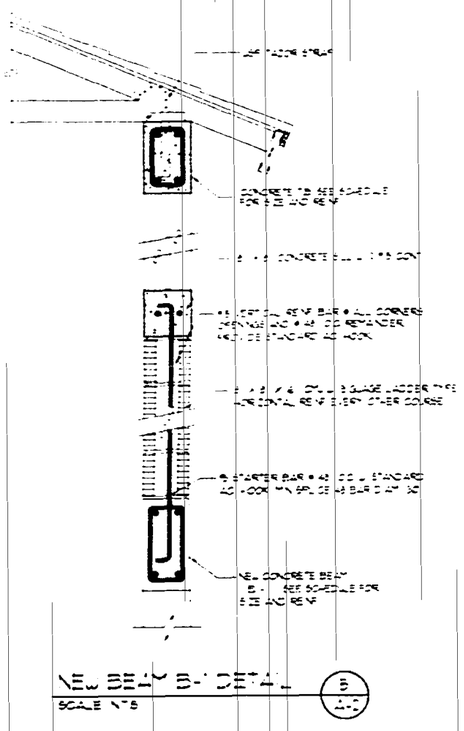
Design

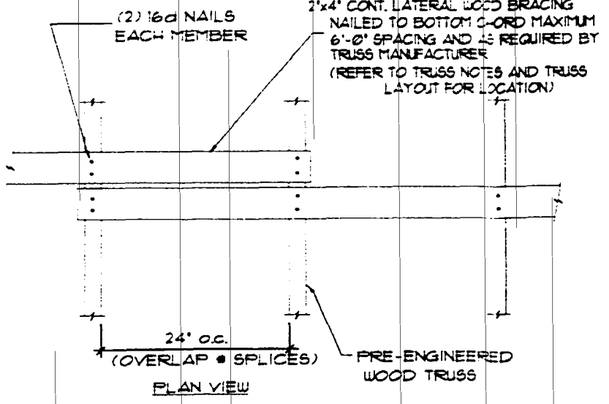
Emilio R. Pisaro

REVISIONS

DATE: MONTH-OCT-2000
SCALE: SHOWN
DRAWN: CK'D
JOB NO.: 2000 MONTH

S-1





STRUCTURAL NOTES

APPLICABLE CODES:
A. SFBC DADE COUNTY 1994 EDITION
B. ACI 318-95 REINFORCED CONCRETE
C. REINFORCED MASONRY BY ACI 530-95 AND "NE MASONRY DESIGNERS GUIDE BY ACI, TMS, ASCE
E. WIND ANALYSIS AND DESIGN PER ASCE 7-88

REINFORCING STEEL fy = 60,000 PSI, fc = 3,000 PSI, Es = 29,000,000 PSI.
Em = 1,500,000 PSI, n = Es/Ec = 21.48
ALL BLOCK IS ASTM C-90 HOLLOW 3/4" MASONRY DESIGN fm = 1500 PSI.
GROUT SHALL COMPLY WITH ASTM C476 28 DAYS MIN. COMP. STRENGTH = 3,000 PSI.
GROUT SLUMP REQUIRED ------ 8" TO 11" PROVIDE CLEANOUT HOLES AT BOTTOM COURSE AND BOTTOM OF FILLED CELL.
MORTAR SHALL COMPLY WITH ASTM C270
MORTAR SLUMP REQUIRED ------ 9" TO 11" TYPE M OR PER SFBC 2106.4B
CONTRACTOR TO CONSOLIDATE GROUT WITH #4 VIBRATOR.

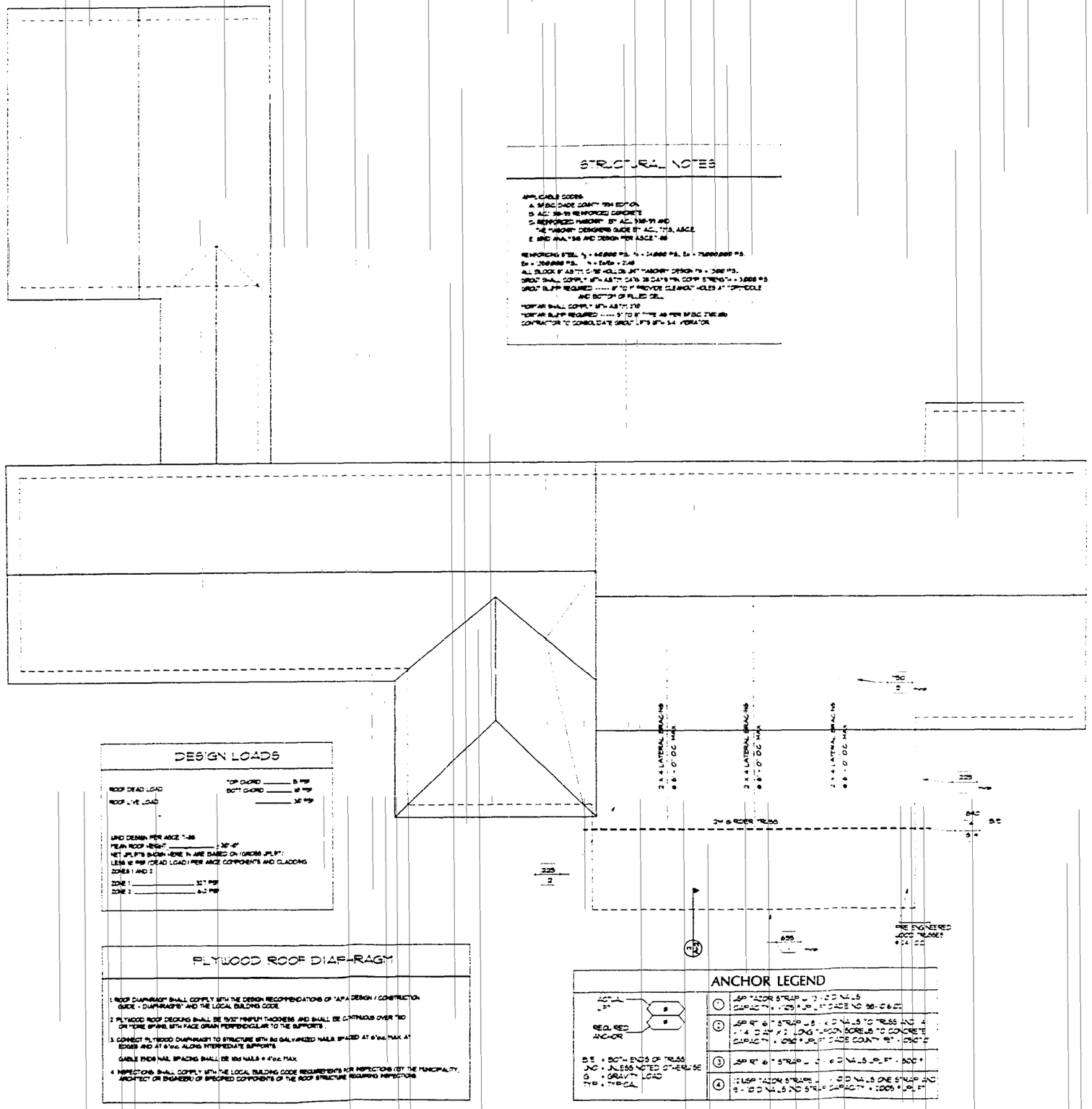
DESIGN LOADS

ROOF DEAD LOAD — TOP CHORD _____ 5 PSF, BOTT CHORD _____ 10 PSF
ROOF LIVE LOAD _____ 20 PSF

WIND DESIGN PER ASCE 7-88
MEAN ROOF HEIGHT _____ 30'-0"
NET UPLIFTS SHOWN HERE IN ARE BASED ON (GROSS UPLIFT - LESS 10 PSF DEAD LOAD) PER ASCE COMPONENTS AND CLADDING
ZONES 1 AND 2
ZONE 1 _____ 32.7 PSF
ZONE 2 _____ 44.2 PSF

PLYWOOD ROOF DIAPHRAGM

1. ROOF DIAPHRAGM SHALL COMPLY WITH THE DESIGN RECOMMENDATIONS OF "APA DESIGN / CONSTRUCTION GUIDE - DIAPHRAGMS" AND THE LOCAL BUILDING CODE.
2. PLYWOOD ROOF DECKING SHALL BE 15/32" MINIMUM THICKNESS AND SHALL BE CONTINUOUS OVER TWO OR MORE SPANS, WITH FACE GRAIN PERPENDICULAR TO THE SUPPORTS.
3. CONNECT PLYWOOD DIAPHRAGM TO STRUCTURE WITH 8d GALVANIZED NAILS SPACED AT 6"o.c. MAX. AT EDGES AND AT 6"o.c. ALONG INTERMEDIATE SUPPORTS.
   GABLE END NAIL SPACING SHALL BE 10d NAILS @ 4"o.c. MAX.
4. INSPECTIONS SHALL COMPLY WITH THE LOCAL BUILDING CODE REQUIREMENTS FOR INSPECTIONS BY THE MUNICIPALITY, ARCHITECT OR ENGINEER OF SPECIFIED COMPONENTS OF THE ROOF STRUCTURE REQUIRING INSPECTIONS.



ANCHOR LEGEND

ACTUAL 5"
REQUIRED ANCHOR
B.E. = BOTH ENDS OF TRUSS
U.N.O. = UNLESS NOTED OTHERWISE
G = GRAVITY LOAD
N.T.S. = NOT TO SCALE

①	.050" THICK STRAP W/ 12 - 0.0 NAILS CAPACITY = 1005 LBS PER SFBC NO 98-0602
②	.050" THICK 6" STRAP W/ 8 - 0.0 NAILS TO TRUSS AND 4 - 1/4" DIA. X 2" LONG TAPCON SCREWS TO CONCRETE CAPACITY = 1092 LBS PER SFBC COUNTY NO. 95-0502.2
③	.050" THICK 6" STRAP W/ 8 - 0.0 NAILS PER END - 500 LBS
④	.050" THICK STRAP W/ 12 - 0.0 NAILS ONE STRAP AND 8 - 0.0 NAILS NO STRAP CAPACITY = 1005 LBS PER

EXTERBALCONY CONTRACTORS INC.
4220 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA
TELEPHONE: (305) 446-0846

Emilio R. Pinero

DATE: MONTH-DAY-2000
SCALE: SHOWN
DRAWN: DP
JOB NO.: 2000-MONTH

S-2

CONCRETE BEAM SCHEDULE

BEAM MARK	BEAM TYPE	TOP OF BEAM ELEV.	WIDTH	HEIGHT	REINFORCING T	REINFORCING MID.	REINFORCING B	#3 STIRRUPS	REMARKS
B-	A	9'	8"	24"	3 #5		3 #5		SEE NOTES BELOW
B-	B	9'	6"	24"	3 #5		3 #5	#6 @ 6" O.C.	

BEAM TYPES

TYPE - A TYPE - B

CONCRETE BEAM NOTES

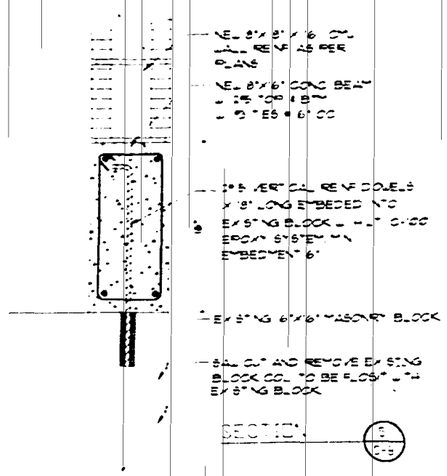
1. ARCHITECT TO REVIEW AND APPROVED ALL BEAM ELEVATIONS AND BEAM DEPTHS
2. TIE BEAMS SHALL HAVE 4 #5 TIES AT 3" O.C. AT ALL CORNERS EA WAY AND 48" O.C. REMAINDER
3. PROVIDE 2 #5 x 60" CORNER BARS BENT 90° EACH WAY @ ALL CORNERS

COLUMN SCHEDULE

MARK	COL TYPE	DIMENSIONS	REINFORCEMENT V	REINFORCEMENT TIES	REMARKS
C-	A	8" x 8"	4 #5	#3 @ 8" O.C.	CONCRETE COL F'C = 3000 PSI
C-	A	8" x 8"	4 #6	#3 @ 8" O.C.	CONCRETE COL F'C = 3000 PSI

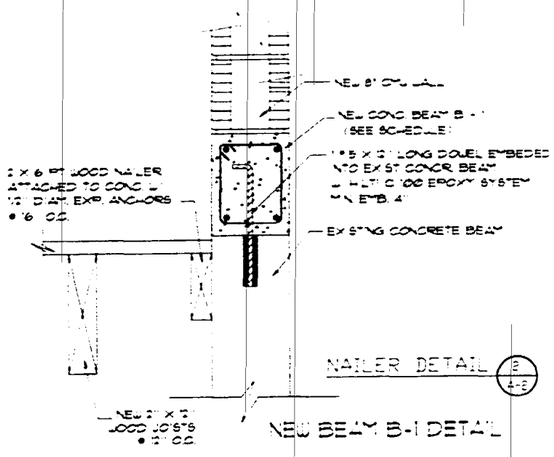
COLUMN TYPES

TYPE - A



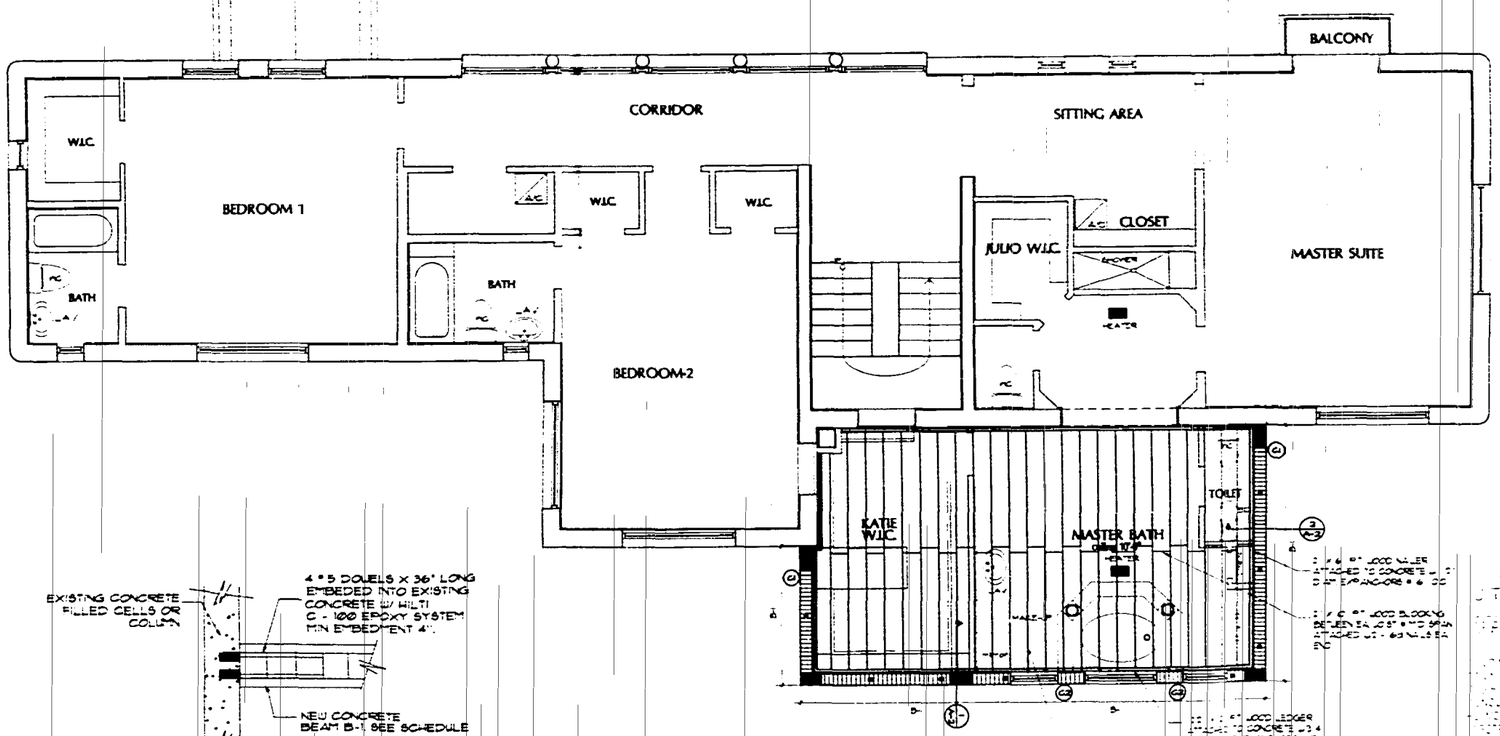
SECTION 5 / C-2

NEW BEAM B-1 DETAIL



NAILER DETAIL 3 / A-2

NEW BEAM B-1 DETAIL



TYPICAL LEDGER DETAIL 1 / A2

SCALE: 1"=1'-0"

NEW B-1 TO EXISTING WALL CONNECTION 3 / A-2

FRAMING PLAN

SCALE: 1/4"=1'-0"

SECOND FLOOR PLAN

SCALE: 1/4"=1'-0"

EXTERIOR COLUMN / BEAM

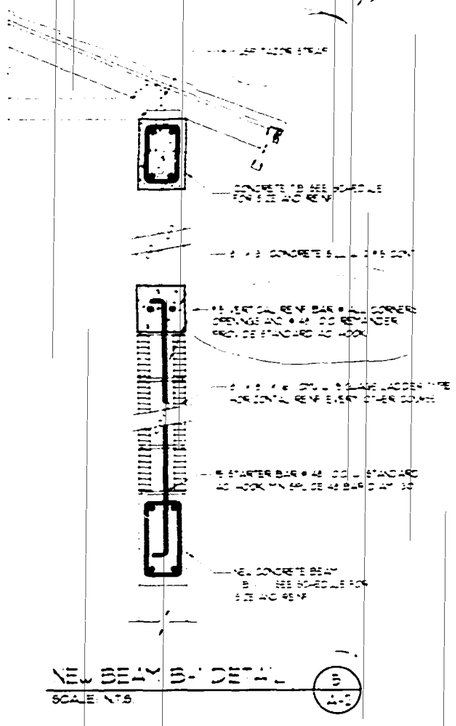
4230 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA
TEL/FAX/HOME: (305) 446-0863

Emilio R. Pinera

DATE: MONTH-DAY-2000
SCALE: SHOWN
DRAWN: I.P.
JOB NO.: 2000-MONTH

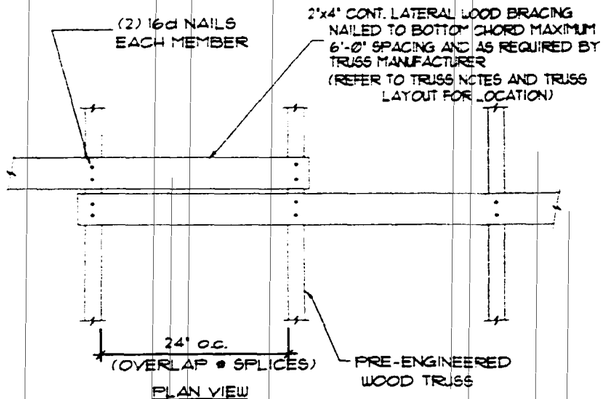
S-1

SHEET NO. 1 OF 10



NEW BEAM B-1 DETAIL

SCALE: N.T.S.



TYPICAL LATERAL BRACE SPLICE

SCALE: N.T.S.

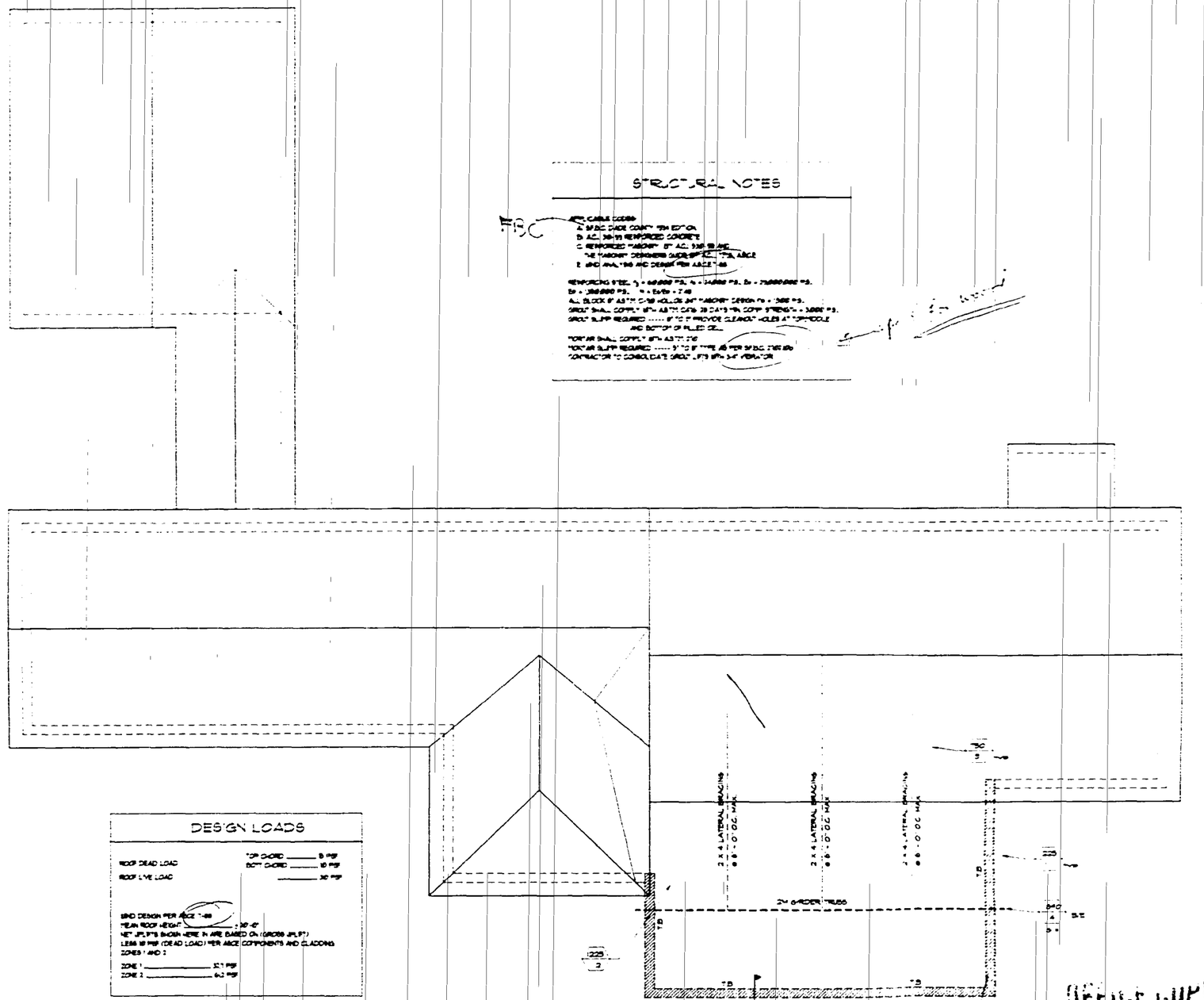
STRUCTURAL NOTES

FBC

A. MIAMI-DADE COUNTY 1994 EDITION
B. ACI 318-89 REINFORCED CONCRETE
C. REINFORCED MASONRY: ACI 530-88/ANSI
THE MASONRY DESIGNER SHALL BE [illegible] FOR ASCE
D. WIND ANALYSIS AND DESIGN PER ASCE 7-88

REINFORCING STEEL: f_y = [illegible] PSI, f_c = [illegible] PSI, E_s = [illegible] PSI.
E_c = [illegible] PSI, $n = E_s/E_c$ = [illegible]
ALL BLOCK IS ASTM C-90 HOLLOW JNT MASONRY DESIGN f'_m = [illegible] PSI.
GROUT SHALL COMPLY WITH ASTM C476 28 DAYS MIN. COMP STRENGTH = [illegible] PSI.
GROUT SLUMP REQUIRED ..... 8" TO 9" PROVIDE CLEANOUT HOLES AT EACH CELL AND BOTTOM OF FILLED CELL.

MORTAR SHALL COMPLY WITH ASTM C270
MORTAR SLUMP REQUIRED ..... 9" TO 11" TYPE "S" PER SPEC. 2100-6(b)
CONTRACTOR TO CONSOLIDATE GROUT WITH 3/4" VIBRATOR



DESIGN LOADS

ROOF DEAD LOAD — TOP CHORD ____ 5 PSF; BOTT CHORD ____ 10 PSF
ROOF LIVE LOAD ____ 30 PSF

WIND DESIGN PER ASCE 7-88
MEAN ROOF HEIGHT ____ : 30'-0"
"NET" PSF'S SHOWN HERE IN ARE BASED ON (GROSS PSF) LESS 10 PSF (DEAD LOAD) PER ASCE COMPONENTS AND CLADDING
ZONES 1 AND 2:
ZONE 1 ____ 32.1 PSF
ZONE 2 ____ 64.2 PSF

PLYWOOD ROOF DIAPHRAGM

1. ROOF DIAPHRAGM SHALL COMPLY WITH THE DESIGN RECOMMENDATIONS OF APA DESIGN / CONSTRUCTION GUIDE - DIAPHRAGMS" AND THE LOCAL BUILDING CODE.
2. PLYWOOD ROOF DECKING SHALL BE 15/32" MINIMUM THICKNESS, AND SHALL BE CONTINUOUS OVER TWO OR MORE SPANS, WITH FACE GRAIN PERPENDICULAR TO THE SUPPORTS
3. CONNECT PLYWOOD DIAPHRAGM TO STRUCTURE WITH 8d GALVANIZED NAILS SPACED AT 6" O.C. MAX. AT EDGES AND AT 6" O.C. ALONG INTERMEDIATE SUPPORTS.
GABLE ENDS NAIL SPACING SHALL BE 16d NAILS @ 4" O.C. MAX.
4. INSPECTIONS SHALL COMPLY WITH THE LOCAL BUILDING CODE REQUIREMENTS FOR INSPECTIONS BY THE MUNICIPALITY, ARCHITECT OR ENGINEER OF SPECIFIED COMPONENTS OF THE ROOF STRUCTURE REQUIRING INSPECTIONS.

ANCHOR LEGEND

ACTUAL / REQUIRED ANCHOR

BE = BOTH ENDS OF TRUSS
UNO = UNLESS NOTED OTHERWISE
G = GRAVITY LOAD
TYP = TYPICAL

① [illegible]
② [illegible]
③ [illegible]
④ [illegible]

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMITS
THE FOLLOWING

Design
Consulting Engineer
State of Florida
Emilio R. Pinero

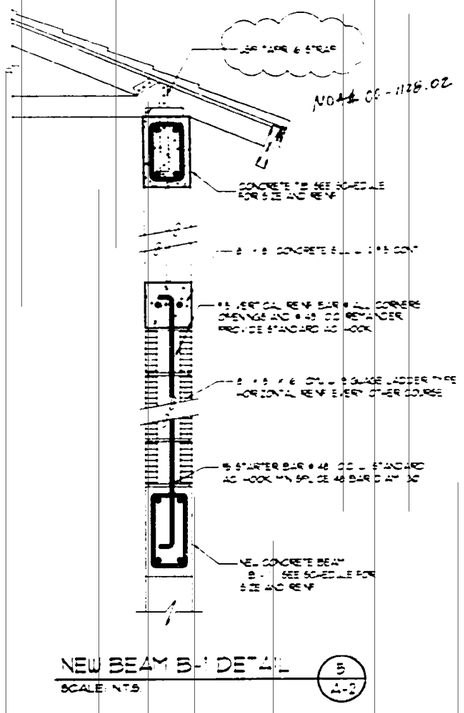
REVISIONS:
DATE: MONTH-OCT-2000
SCALE: SHOWN
DRAWN: [illegible]
JOB NO.: 2000-MONTH

S-2

SHEET NO.: 2 OF 10

INSTALLATION REPAIR OF EXISTING

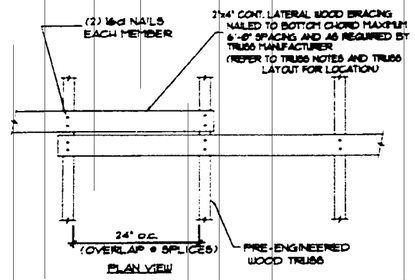
4230 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA
TELEPHONE: (305) 446-0661



NEW BEAM DETAIL

SCALE: N.T.S.

S-1
A-2



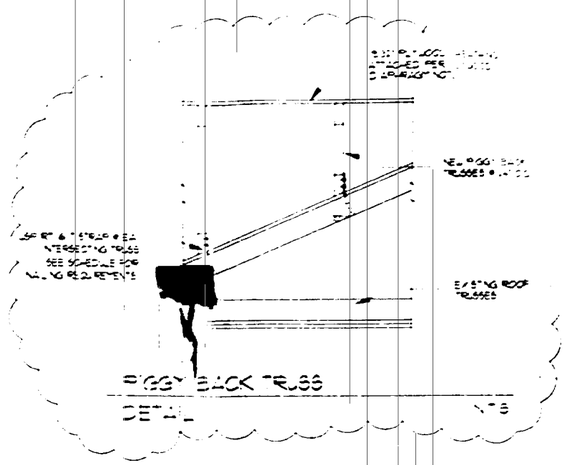
TYPICAL LATERAL BRACE SPLICE

SCALE: N.T.S.

STRUCTURAL NOTES

APPLICABLE CODES:
A. FBC, [illegible] 2007 EDITION
B. ACI 318-99 REINFORCED CONCRETE
C. REINFORCED MASONRY BY ACI 530-99 AND "THE MASONRY DESIGNERS GUIDE BY ACI, TMS, ASCE
E. WIND ANALYSIS AND DESIGN PER ASCE 7-98

REINFORCING STEEL: f_y = 60,000 P.S.I., f_c = 3,000 P.S.I. Es = 29,000,000 P.S.I.
Es = 1,350,000 P.S.I. n = Es/Ec = 2.49
ALL BLOCK IF ASTM C-90 HOLLOW JNT MASONRY DESIGN f'_m = 1500 P.S.I.
GROUT SHALL COMPLY WITH ASTM C476 28 DAYS MIN. COMP. STRENGTH = 3,000 P.S.I.
GROUT SLUMP REQUIRED ------ 8" TO 9" PROVIDE CLEANOUT HOLES AT TOP, MIDDLE AND BOTTOM OF FILLED CELL
MORTAR SHALL COMPLY WITH ASTM C-270
MORTAR SLUMP REQUIRED ------ 8" TO 9" TYPE AS PER FBC 2007/R5
CONTRACTOR TO CONSOLIDATE GROUT LIFTS WITH 3/4" VIBRATOR



DESIGN LOADS

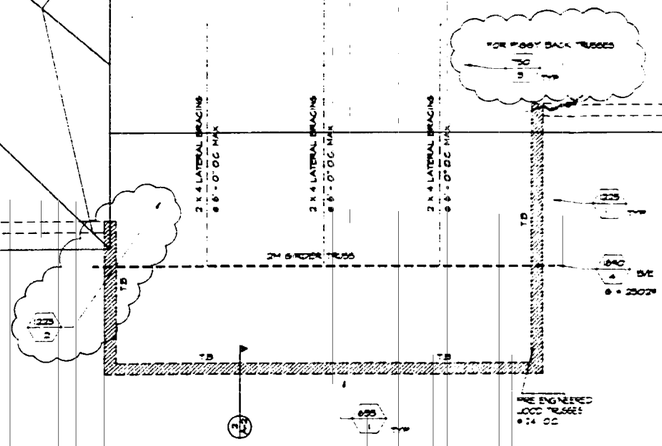
ROOF DEAD LOAD — TOP CHORD ——— 8 PSF; BOTT. CHORD ——— 10 PSF

ROOF LIVE LOAD ——— 30 PSF

WIND DESIGN PER ASCE 7-98
MEAN ROOF HEIGHT ——— ± 7'-9"
NET UPLIFTS SHOWN HERE IN ARE BASED ON (GROSS UPLIFT)
LESS 10 PSF (DEAD LOAD) PER ASCE COMPONENTS AND CLADDING
ZONES 1 AND 2 & 3
ZONE 1 ——— 30.1 PSF
ZONE 2 ——— 51.2 PSF
& 3

PLYWOOD ROOF DIAPHRAGM

1. ROOF DIAPHRAGM SHALL COMPLY WITH THE DESIGN RECOMMENDATIONS OF "APA DESIGN / CONSTRUCTION GUIDE - DIAPHRAGMS" AND THE LOCAL BUILDING CODE.
2. PLYWOOD ROOF DECKING SHALL BE 7/32" MINIMUM THICKNESS, AND SHALL BE CONTINUOUS OVER TWO OR MORE SPANS, WITH FACE GRAIN PERPENDICULAR TO THE SUPPORTS.
3. CONNECT PLYWOOD DIAPHRAGM TO STRUCTURE WITH 8d GALVANIZED NAILS, SPACED AT 6"o.c. MAX. AT EDGES AND AT 6"o.c. ALONG INTERMEDIATE SUPPORTS.
   GABLE ENDS NAIL SPACING SHALL BE 16d NAILS @ 4"o.c. MAX.
4. INSPECTIONS: SHALL COMPLY WITH THE LOCAL BUILDING CODE REQUIREMENTS FOR INSPECTIONS (BY THE "MUNICIPALITY, ARCHITECT OR ENGINEER) OF SPECIFIED COMPONENTS OF THE ROOF STRUCTURE REQUIRING INSPECTION.
5. SUBMIT 2 COPIES TO ROOF SHOP DRAWINGS FOR ENGINEERS APPROVAL PRIOR TO FABRICATION.



ANCHOR LEGEND

ACTUAL UPLIFT / REQUIRED ANCHOR

B.E. = BOTH ENDS OF TRUSS
U.N.O. = UNLESS NOTED OTHERWISE
G = GRAVITY LOAD
TYP. = TYPICAL

① 5/8" DIA. A.B. @ 6'-0" O.C. STRAP @ 3'-0" O.C. NAILS CAPACITY = 1265 # UPLIFT GRADE NO. 55-1/2 G.I.

② 5/8" DIA. (2) A.B. @ 6'-0" O.C. STRAP @ 6'-0" O.C. NAILS TO TRUSS AND 14 - 16d COMM. x 3" LONG "LIPPED" SCREWS TO CONCRETE EA. STRAP CAPACITY = 2530 # UPLIFT. GRADE COUNTY #2 - 2507 G.I.

③ 5/8" DIA. A.B. @ 6'-0" O.C. STRAP @ 3'-0" O.C. NAILS UPLIFT = 800 #

④ (2) 5/8" DIA. THRU-BOLT @ 6'-0" O.C. NAILS ONE STRAP AND 7 - 16d COMM. NAILS STRAP CAPACITY = 2005 # UPLIFT GRADE COUNTY #2 - 2507 G.I.

Aspen Finish
REVIEWED

FOUNDATION PLAN, EXISTING BUILDING & NEW ADDITION

MR. JULIO MARRERO

4230 NORTH BAY RD.
MIAMI BEACH, FLORIDA
TELEPHONE (305) 446-0360

Emilio L. Pinero

REVISIONS:

DATE: MONTH-DAY-2007
SCALE: SHOWN
DRAWN: E.P. & A.M.
JOB NO.: 2007-MONTH#

S-2

SHEET NO.: 2 OF 10

B0204098

4930 N BAY RD

PERMIT #

B0204098

CITY OF MIAMI BEACH

RECEIPT OF PAYMENT

Activity Number
Status APPLIED

Entered By RUTLEDGE

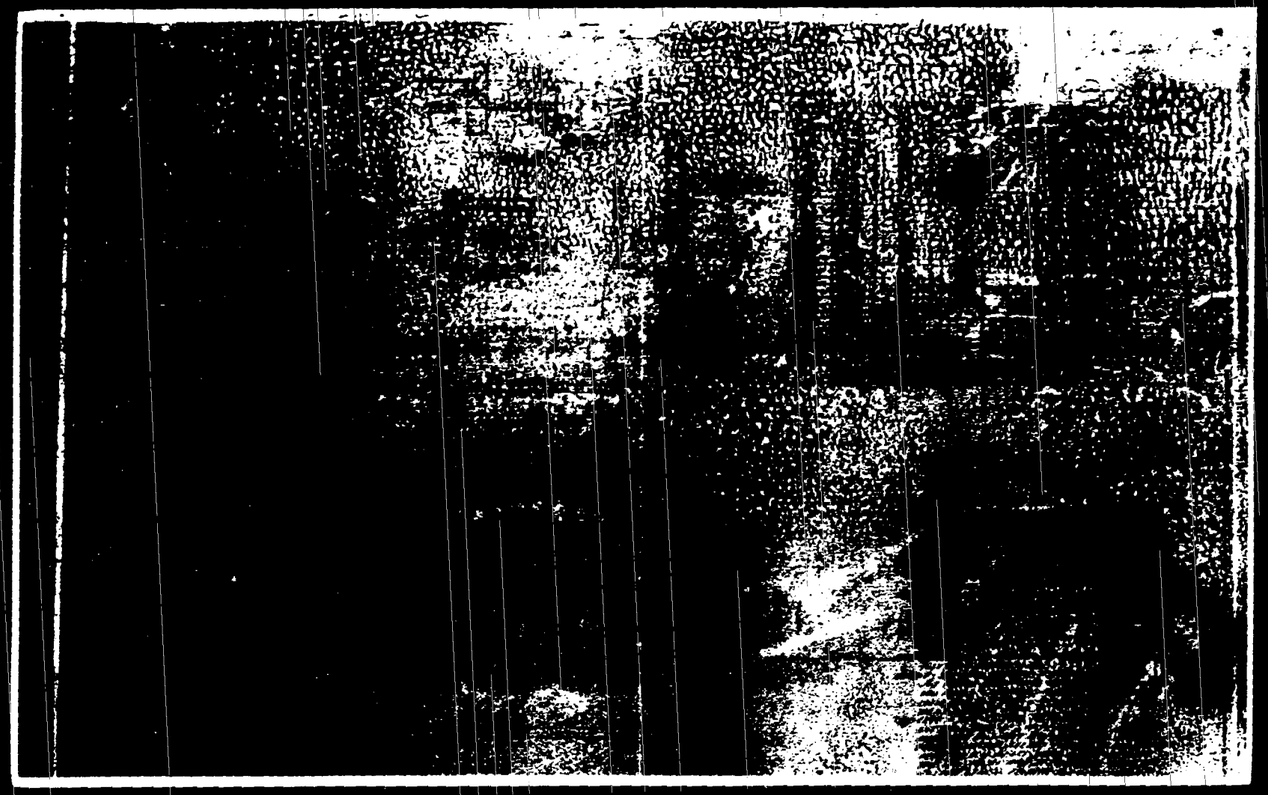
Balance Due
Valuation

FRANK MARRERO &W ROSA
PO BOX 57002
MIAMI FL 33157-1002

ents made for this receipt

nt Payment Made to the Following Items:

nt Summary for Fees and Payments



1 of 10

Project Name: MARERRO ADDITION

Location: DADE COUNTY, FL
By:
Start Date: 7/11/02
Comments: WIND LOAD CALCULATIONS

MARERRO ADDITION

July 11, 2002

Local Information

2 of 10

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.

MARERRO ADDITION

July 11, 2002

Section - Main Section

3 of 10

Enclosure Classification: Enclosed
Building Category: II

Wall	Length(ft)	Overhang(ft)
1	27.0	1.5
2	14.5	1.5
3	27.0	1.5
4	14.5	1.5

Wall Height: 20 ft
Parapet Height: 0 ft

Roof Shape: Hipped

Roof	Slope(12:
A&B	5.0
C&D	5.0

MARERRO ADDITION

July 11, 2002

Components and Cladding Input

4 of 10

Component Description	Area (sq.ft.)	Surface	Zone	Span ft	Effective Area (sq.ft.)	Area adj.
TRUSS	Roof	A	1	27.0	20	243.0
TRUSS	Roof	A	2	27.0	20	243.0
WALL	Roof	A	3	27.0	20	243.0
WALL	Wall	4	4	10.0	40	40.0
	Wall	1	5	10.0	40	40.0

MARERRO ADDITION

July 11, 2002

Components and Cladding Output

5 of 10

Component Description	Surface	Zone	P (lb)	Width	GCp	GCpi	Left Press psf	Right Press psf	Net w +GCpi psf	Net w -GCpi psf
TRUSS	A	1	21.5	42.5	0.30	0.18	12.8	5.1		20.4
			21.5	42.5	0.30		-34.0	-41.7		-38.3
			21.5	42.5		0	-34.0			
TRUSS	A	2	21.5	42.5	0.30	0.18	12.8	5.1		20.4
			21.5	42.5	-1.40		-59.5	-67.2		-61.8
			21.5	42.5	-2.20	0	-93.5			
TRUSS	A	3	21.5	42.5	0.30	0.18	12.8	5.1		20.4
			21.5	42.5	-1.40		-59.5	-67.2		-61.8
			21.5	42.5	-2.80	0	-108.3			
WALL	4	4	21.5	42.5	0.80	0.18	37.6	30.2		40.5
			21.5	42.5	-0.99		-42.1	-49.7		-34.4
WALL	1	5	21.5	42.5	0.80	0.18	37.6	30.2		40.5
			21.5	42.5	-1.19		50.5	58.2		-42.9

6 of 10

RE: REINFORCED CONCRETE BEAM
CALCULATIONS FOR BENDING AND SHEAR
ACCORDING TO ACI 318-89

SPAN =8'-0" B-1

	LIVE	DEAD
LOADS (PSF)	30	25
TRIBUTARY AREA (FT)	1	
SPAN (FT)	8	
SELF WEIGHT (LBS)	104.00	
UNIFORM LOAD (PLF)	2248.00	

Minimum Flexure Reinforcement =
As (in^2) = 0.36 (200/Fy)*b*d
Per aci 318-89, para 10.5

f'c (ksi)	3
Fy (ksi	60
B (in)	8
d (in)	13
Mu (kip-in)	215.81
As Required (in2)	0.32
Vu (kips)	8.99
ØVc/2 (kips)	4.84
Vs (kips)	5.74
Stirrup Spacing (in)	29.91
Av (in2)	0.22
ØVc/2 =	2.06

Use 2#6 =0.61in2
If this is larger
than this than stirrups are required
Use minimum ACI 318-89 requirements
Area of 2#3 hoop legs
Stirrups are required

Note: Stirrups required when 0.85*Vc/2 < Vu

Required Stirrup Spacing

WHEN Vu>0.85*Vc/2 but Vu<0.85*Vc

S = smaller of		
d/2 =	6.5	---- CONTROLS ----
Av*Fy/(50*b) =	33	
24 in =	24	

AC! 530-92 MASONRY DESIGN

Fs =	32.00 KSI	
Fy =	35.00 PSI	
Em =	1500.00 PSI	
Es =	29000.00 KSI	
Em =	1350.00 PSI	
n =	21.48	Es/Em
Fb =	968.87 PSI	4/3 INCREASE FOR WIND LOADS
Fa =	300.00 PSI	4/3 INCREASE FOR WIND LOADS

OUT OF PLANE BENDING FOR MASONRY WALLS

HEIGHT =	10.00	
REINFORCEMENT (#6@24"O.C.) =		0.38 in2/FT
B =	12.00 in	
D =	3.80 in	
rho =	0.0018	
rho'n =	0.0377	
e =	0.24	
j =	0.92	

AXIAL LOAD,P =	1.20 KIPS		
AREA OF MASONRY =	53.90 in2		
WIND LOAD =	60.00 PSF	MOMENT =	5.00

fa =	471.48 psi		
fb =	18.78 psi		
fa/Fa + fb/Fb =		0.77 < 1.0	OK

CHECK FOR EXISTING

WALL LOAD CASE

ROOF 55psf x 27½' = 742 #/ft

WALL MISC. 65psf x 8'-0" = 650 plf

NEW B-1 = 77 pcf x 8'x16" = 133 #/ft

NEW WALL = 68psf x 45½ = 122 #/ft.

LOAD @ GIRDER = RECEIVE = 13,824# ✓

EXIST WALL LOAD = 65psf x 10' = 650 #/ft

EXIST GABLE BEAM = 75 x 10' x 24' = 600 #/ft / 45 = 45 #/ft

EXIST COL = 8"x16"x150 x 10' = 333 #

PILE SPAN = 12' x 250 #/ft = 12600 #

COLUMN = 333 #

13,933 #

- NO LOAD 13,824 #

$ 27.6 #

EXISTING PILE CAPACITY ADEQUATE

PILES: 30 TON CAPACITY 27.6 #/2000 # = 13.8 TONS

30 TONS ≥ 13.8 TONS OK

ZONING LEGEND

FOLIO NO 07-4140-026-0000-00

ZONING RS SINGLE FAMILY RESIDENCE

HEIGHT 35'-0" TO RIDGE OF ROOF		30'-0"
LOT COVERAGE 40% OF NET LAND 8414 SF		3363.20 SF ALLOWED
MIN. GREEN SPACE REQUIRED 60% OF NET LOT AREA		5048 SF
PROPOSED GREEN AREA		5713 SF
EXISTING NONCONFORMITY EXISTING ACCESSORY		384 SF

SETBACKS	PROVIDED	REQUIRED
FRONT	35'-0"	25'-0"
SIDE	7'-6"	7'-6"
SIDE	7'-6"	7'-6"
REAR	44'-0"	5'-0"

ALL FILL TO BE PLACED TO COUNTY FLOOD CRITERIA ELEVATION 9' NGVD OR AS REQUIRED BY BUILDING, BUT NO LESS THAN THE HIGHEST APPROVED CROWN ELEVATION OF THE PUBLIC ROAD FRONTING THE PROPERTY.

AREAS ADJACENT TO LAKE OR CANAL TO BE GRADED SO AS TO PREVENT DIRECT OVERLAND DISCHARGE OF STORM WATER TO LAKE OR CANAL.

LOT TO BE GRADED SO AS TO PREVENT DIRECT OVERLAND DISCHARGE OF STORM WATER ONTO ADJACENT PROPERTY.

APPLICANT TO PROVIDE CERTIFICATION PRIOR TO FINAL INSPECTION BY ENGINEER OF RECORD.

IN THE EVENT OF ANY DISCREPANCY BETWEEN THE REQUIREMENTS OF THIS PERMIT THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY SECTION 553.73 F.S. OF FLORIDA STATUTES SPECIFIC TO THIS PERMIT.

A SEPARATE PERMIT SHALL BE REQUIRED FOR ALL DRIVEWAY APPROACHES CONTACT PUBLIC WORKS DEPT.

HEDGES OR FENCES SHALL AND HEDGES SHALL NOT EXCEED 3.5 FEET WITHIN 10 FEET OF THE EDGE OF ANY DRIVEWAY LEADING TO A RIGHT OF WAY.

HEIGHT OF FENCES SHALL BE MEASURED FROM GRADE GRADE + ELEVATION OF PUBLIC SIDEWALK OR CROWN OF ROAD

FLOOD LEGEND

RESIDENTIAL CONSTRUCTION

LOT BLOCK

ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK PAGE OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.

HIGHEST CROWN OF ROAD ELEVATION IS FOUND HIGHEST CROWN OF ROAD ELEVATION

AS TAKEN FROM THE ATTACHED CERTIFIED SURVEY OR CERTIFIED SURVEY PREPARED BY

OLIVER G. MONEAL REG. L.S. NO.

SURVEY DATE

	LOWEST FLOOR ELEVATION	GARAGE FLOOR ELEVATION	ALTERNATE GARAGE ELEVATION	SLAB ELEVATION
PROPOSED	9.50	9.00	9.00	9.00

ALL ELECTRICAL, MECHANICAL AND PLUMBING WILL BE PLACED AT OR ONE FOOT ABOVE THE BASE FLOOD ELEVATION OR HIGHER.

ALL AREAS BELOW BFE SHALL BE PROVIDED WITH A MINIMUM OF TWO OPENINGS HAVING A TOTAL NET AREA OF NOT LESS THAN ONE SQUARE INCH OF OPENING FOR EVERY ONE SQUARE FOOT OF ENCLOSED AREA SUBJECT TO FLOODING. THE BOTTOM OF ALL OPENINGS SHALL BE NO HIGHER THAN ONE FOOT ABOVE GRADE AND LOCATED ON A PERIMETER WALL OF THE ENCLOSED AREA. OPENINGS SHALL BE EQUIPPED WITH SCREENS OR LOUVERS. FLOOD RESISTANT MATERIALS SHALL BE USED BELOW BFE.

ALTERNATE ELEVATION CERTIFICATION BY SHALL BE ON THE PLANS NOTES INDICATING THAT THE DESIGN WAS ALLOWED FOR THE HYDROSTATIC EQUALIZATION OF INTERIOR AND EXTERIOR FLOOD FORCES ON EXTERIOR WALLS.

THE SITE SHALL BE GRADED IN A MANNER TO PREVENT THE FLOODING OF ADJACENT PROPERTIES. WHERE NECESSARY, INTERCEPTOR SWALES SHALL BE CONSTRUCTED ON THE PROPERTY TO PREVENT EXCESSIVE RUNOFF OVER ADJACENT PROPERTIES.

DATE

TWO STORY BUILDING
FIN. FLOOR ELEVATION
9.50 NGVD

SEE SEE BLOCK

SEE SEE BLOCK

4'-0" LOW WALL

1 1/4" CWLINE FROM METER

WATER METER LOCATION ON FIELD

SIDE SETBACK

LEGAL DESCRIPTION:

BEING A PORTION OF LOT 1, WOODSIDE ESTATES ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 29, PAGE 52, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS BEING AT THE SOUTHWEST CORNER OF SAID LOT 1, WOODSIDE ESTATES, THENCE N00°43'39"W ALONG THE WEST LINE OF SAID LOT 1, A DISTANCE OF 210.69 FEET (MORE OR LESS) TO THE WATERS OF LOXAHATCHEE RIVER; THENCE N87°01'43"E ALONG THE WATERS OF THE LOXAHATCHEE RIVER, A DISTANCE OF 39.60 FEET; THENCE S89°16'19"E CONTINUING ALONG THE WATERS OF THE LOXAHATCHEE RIVER, A DISTANCE OF 37.40 FEET; THENCE S88°00'01"E CONTINUING ALONG THE WATERS OF THE LOXAHATCHEE RIVER, A DISTANCE OF 7.87 FEET TO THE NORTHEAST CORNER OF THE PROPOSED LOT 1A; THENCE S00°06'13"W ALONG THE EASTERLY LINE OF SAID PROPOSED LOT 1A, A DISTANCE OF 209.39 FEET (MORE OR LESS) TO A POINT ON THE SOUTH LINE OF SAID LOT 1; THENCE S88°16'54"W ALONG SOUTH LINE OF LOT 1, A DISTANCE OF 86.76 FEET, TO THE POINT OF BEGINNING

SITE PLAN

SCALE: 1"=10'-0"

N

As per Florida Building Code Section 104.5.3
REVIEWED FOR CODE COMPLIANCE

ROAD IMP. FEE SCHOOL IMPACT FEE NOT REQUIRED
JUL 11 2002
MIAMI-DADE COUNTY APPROVED

DESIGN

Emilio R. Pinero
Certificate No.
State of Florida

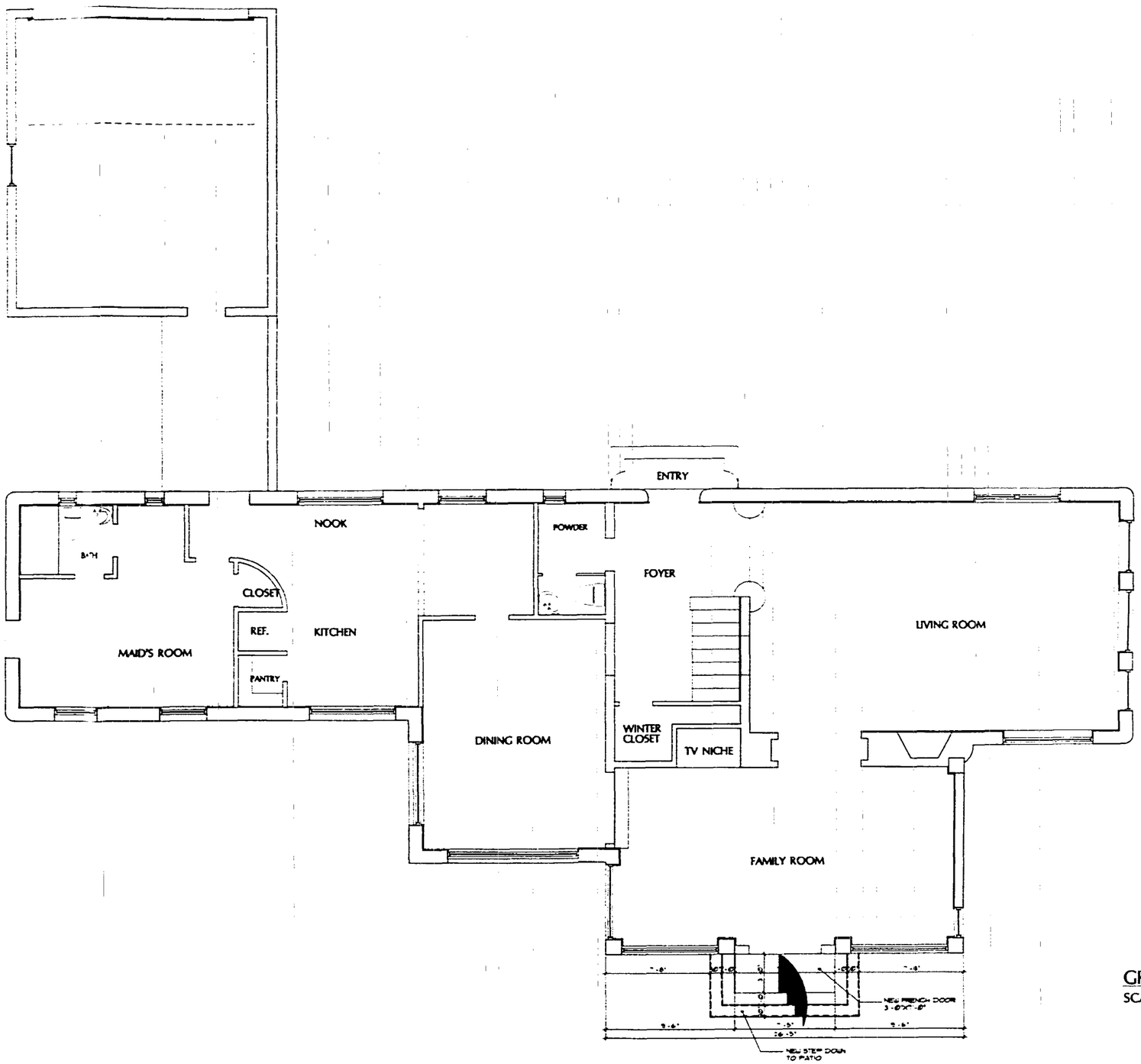
EXT. BALCONY CONVERT TO BATH
4230 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA
TELEPHONE: 305 444-4

REVISIONS
1.
2.
3.
4.

DATE: NOVEMBER-OCT.2001
SCALE: SHOWN
DRAWN: O.P.
JOB NO.: 2001-NOVEM

SP

SHEET NO.: OF



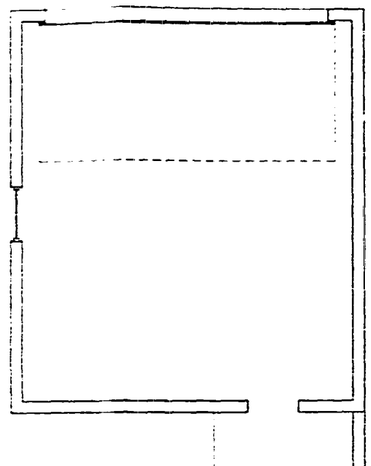
GROUND FLOOR PLAN
SCALE:1/4"=1'-0"

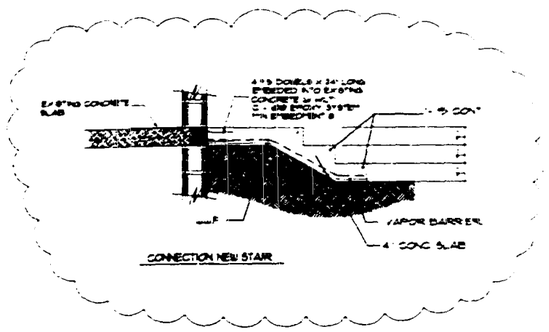
EXT.BALCONY CONVERT TO BATH
4230 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA
TELEPHONE (305) 446-0661

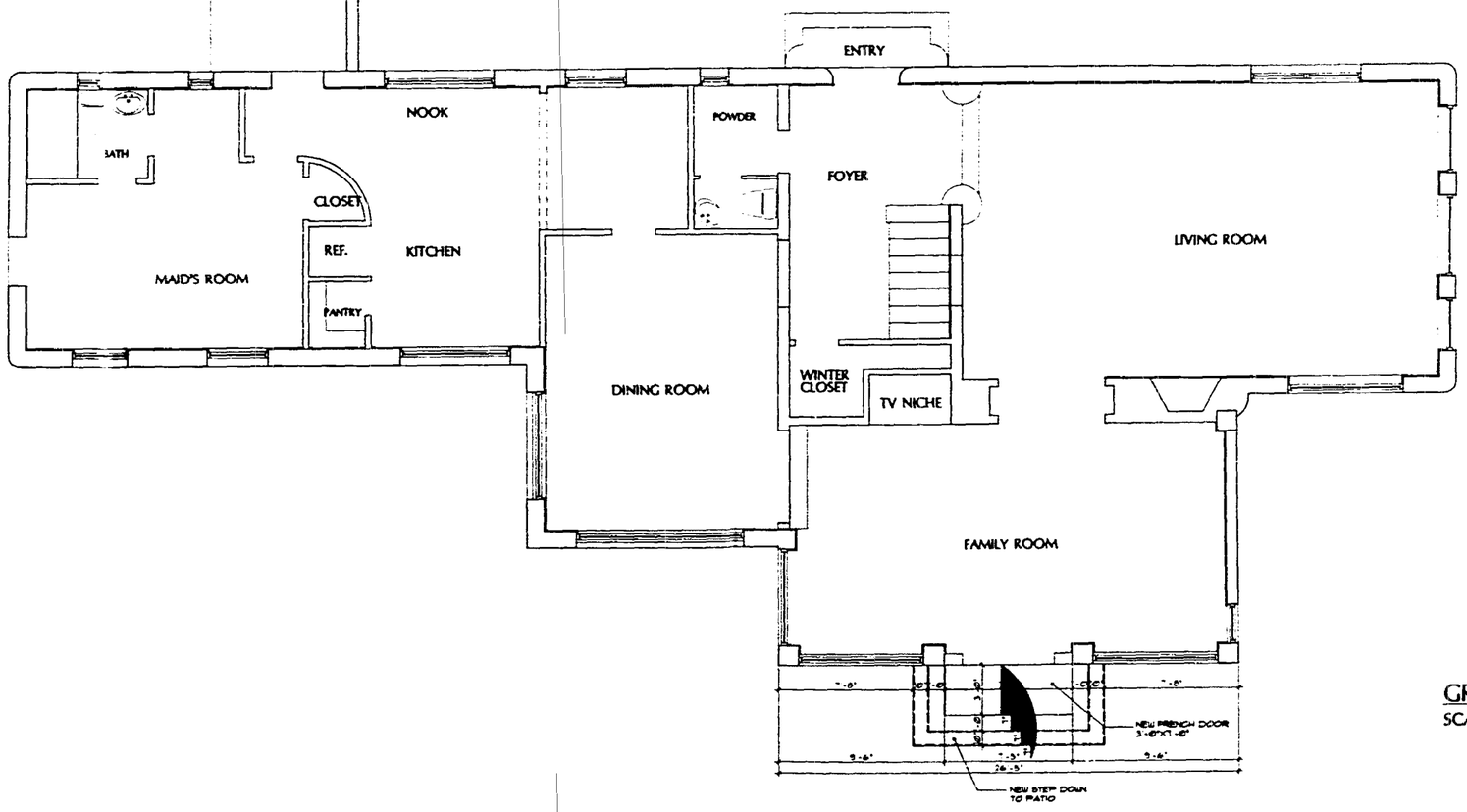
REVISIONS :

DATE : MONTH-DAY-2000
SCALE : SHOWN
DRAWN : D.P.
JOB NO. : 2000-MONTH#

A-1
SHEET NO. : 1 OF 10







REVIEWED FOR CODE COMPLIANCE

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

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

GROUND FLOOR PLAN
SCALE:1/4"=1'-0"

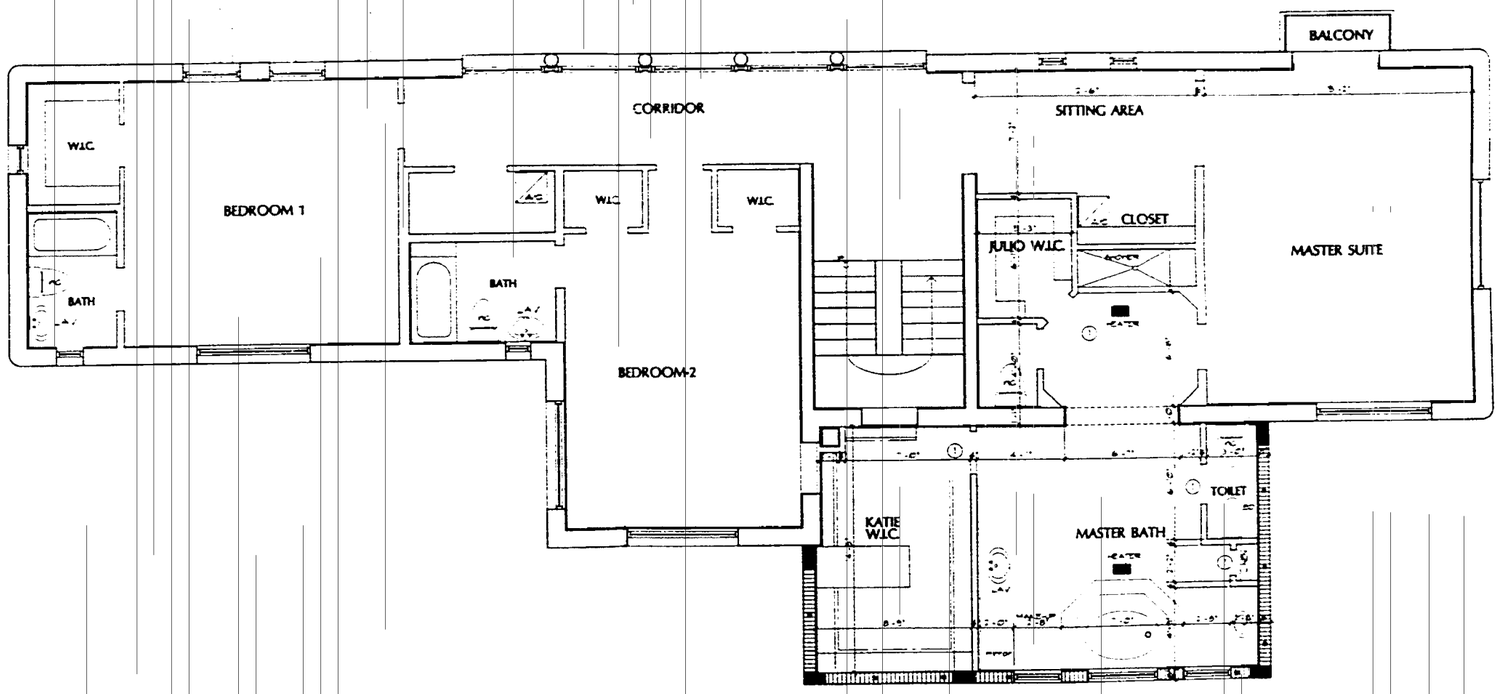
Emilio R. Pinero

PROJECT DESCRIPTION: EXISTING RESIDENCE ADDITION AND RENOVATIONS

4220 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA
TELEPHONE: (305) 446-0663

DATE
SCALE
DRAWN
JOB NO.

A-1
SHEET NO.



SECOND FLOOR PLAN

SCALE: 1/4"=1'-0"

REVIEWED

EXT. BALCONY CONVERT TO ENCLOSED

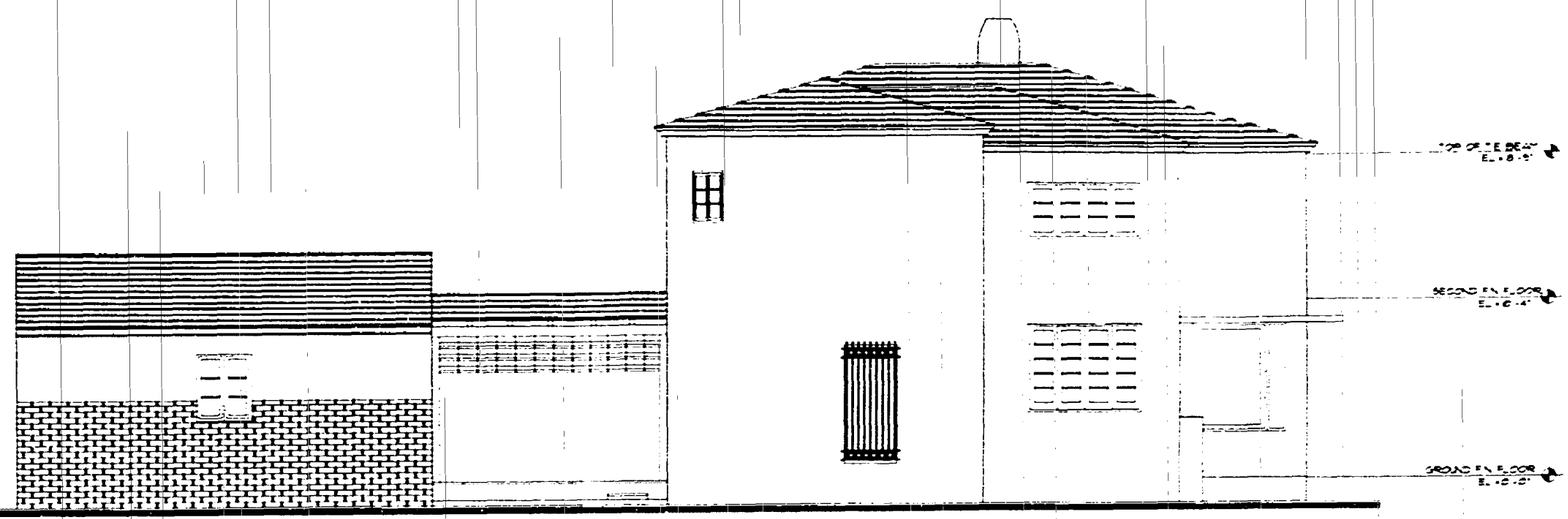
4220 NORTH BAY RD.

MR. JULIO MARRERO

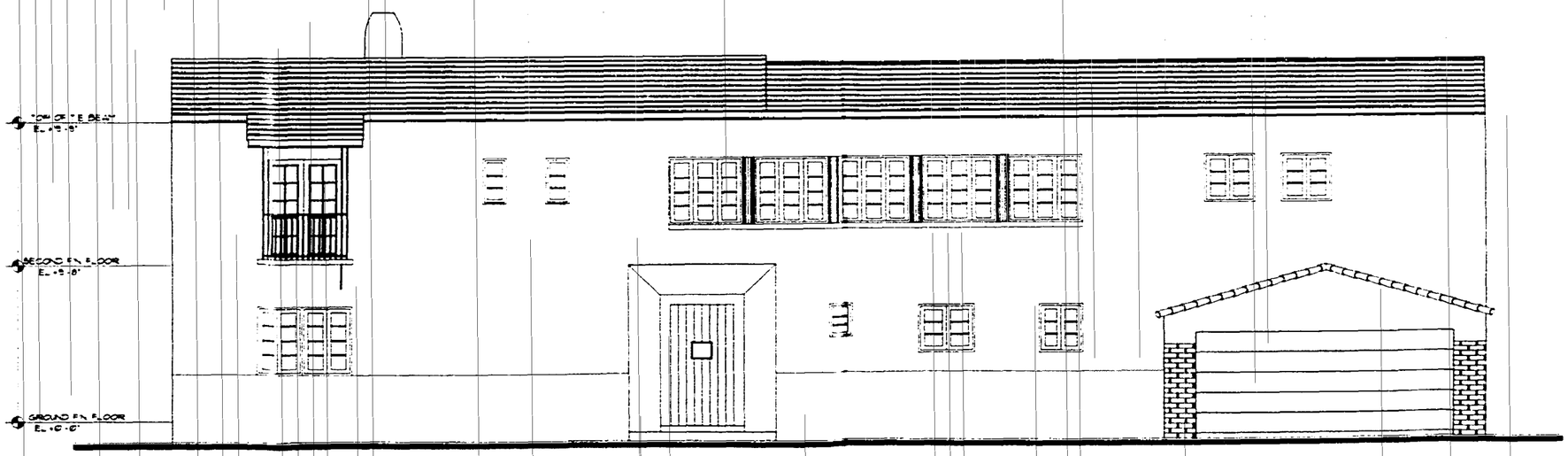
MIAMI BEACH, FLORIDA

TELEPHONE: (305) 446-0363

A-2



RIGHT ELEVATION 1/4"



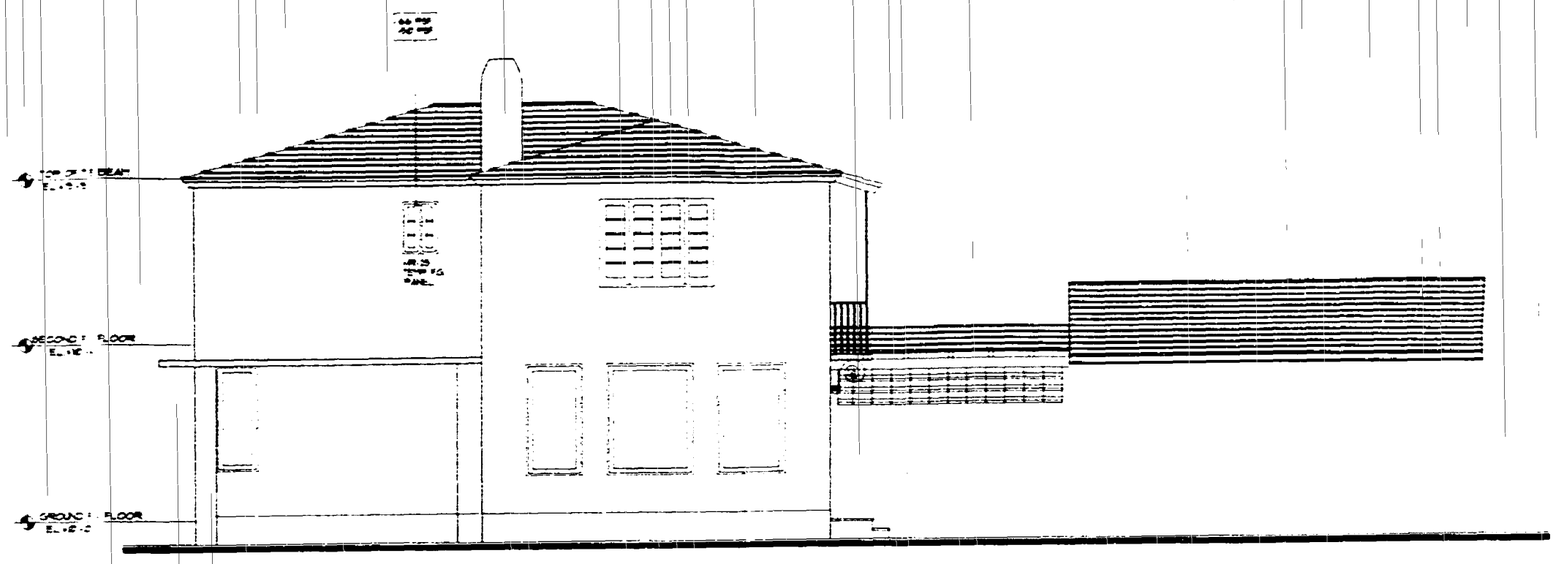
FRONT ELEVATION 1/4"

Design

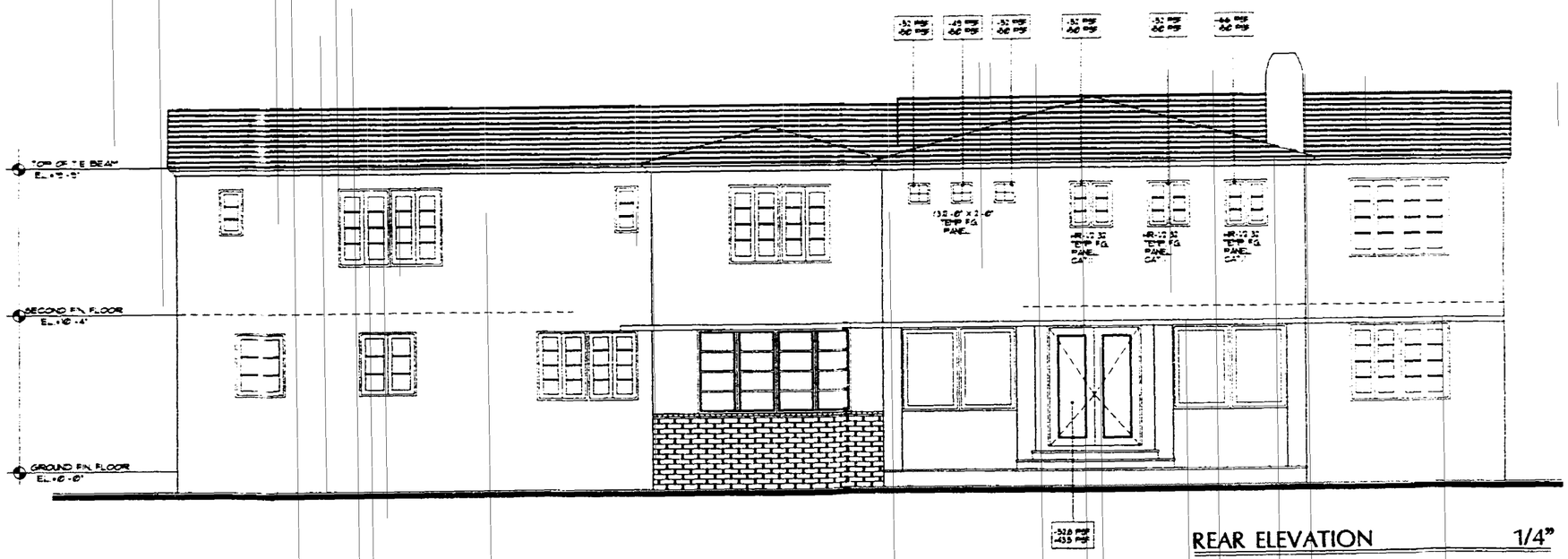
Emilio A. Pinero

EXT BALCONY CONVERT TO BATH
4230 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA

A-3



LEFT ELEVATION 1/4"



REAR ELEVATION 1/4"

REVIEWED FOR CODE COMPLIANCE

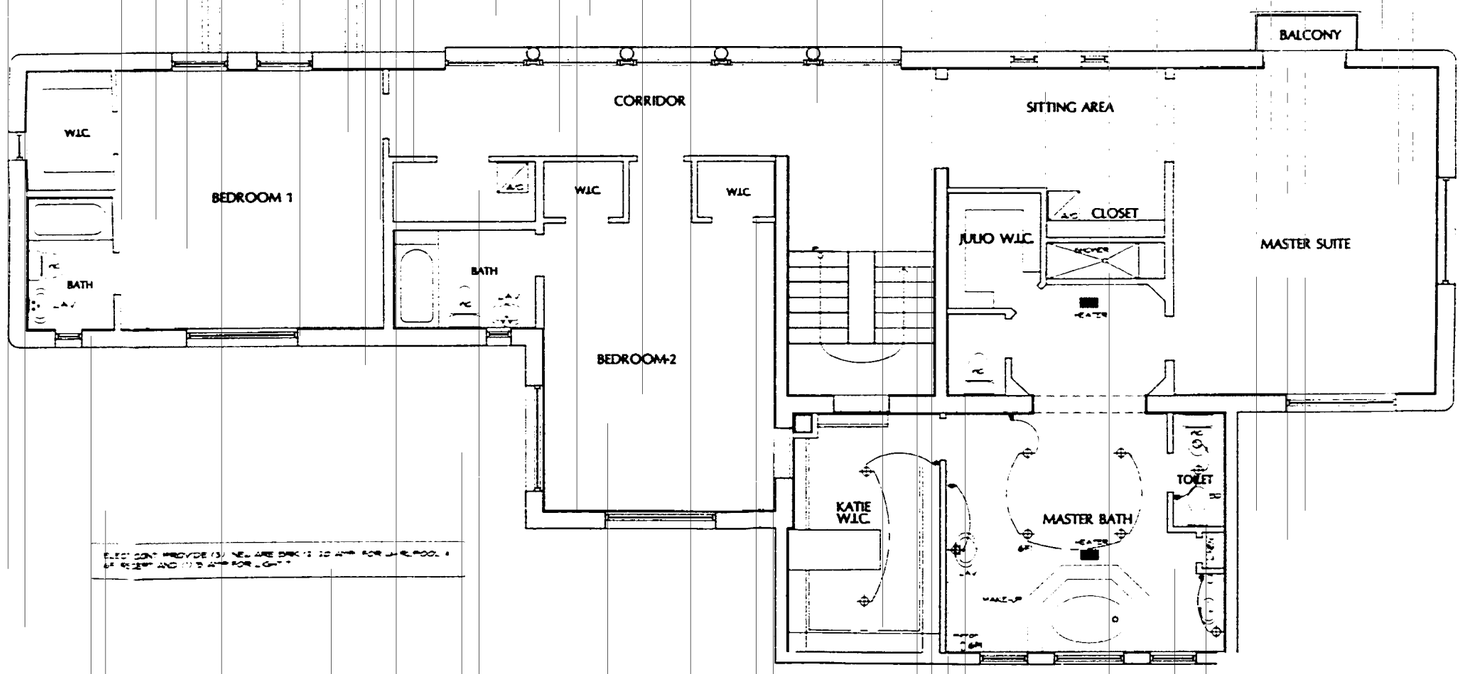
EXTERIOR ELEVATIONS

4230 NORTH BAY RD.

MR. JULIO MARRERO

MIAMI BEACH, FLORIDA

A-4



SECOND FLOOR PLAN

Design

Consulting Engineer State of Florida
Emilio R. Piñero
Professional Engineer

EXT BALCONY CONVERT TO BATH

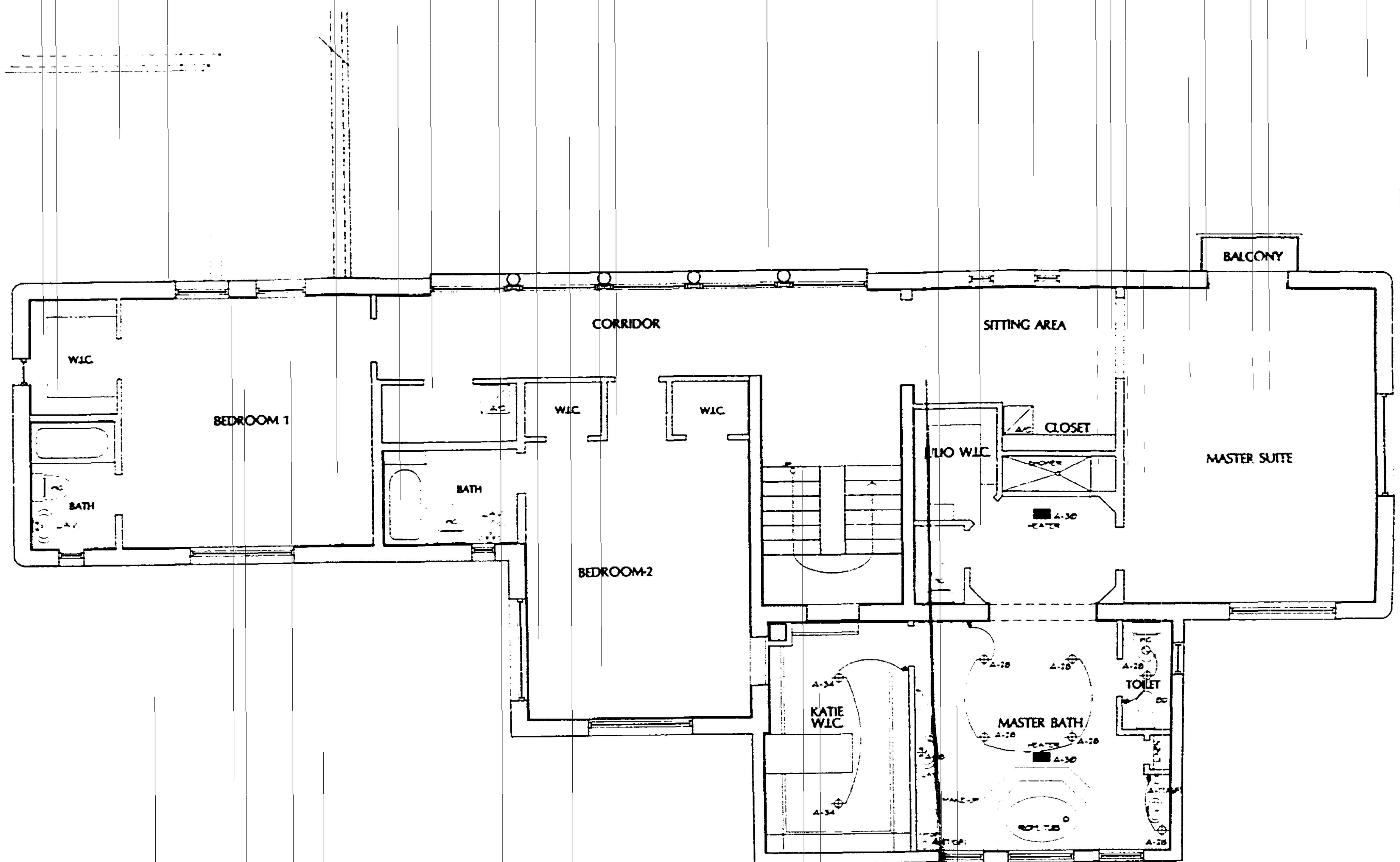
4220 NORTH BAY RD.

MR. JULIO MARRERO

MIAMI BEACH, FLORIDA

TELEPHONE: (305) 446-0661

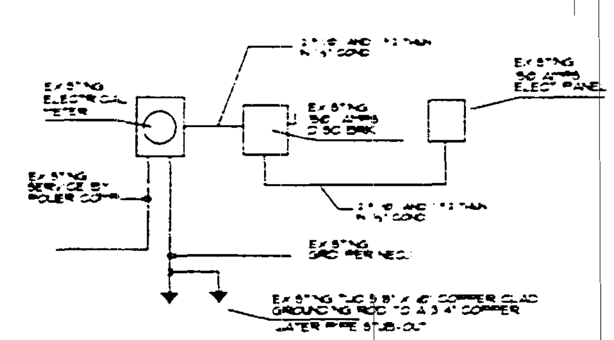
E-1



SECOND FLOOR PLAN

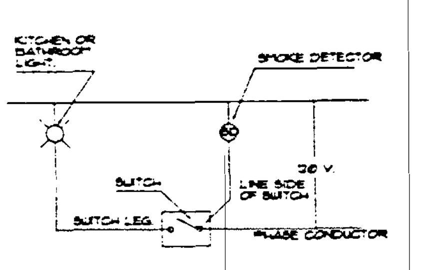
SCALE: 1/4"=1'-0"

CONTRACTOR SHALL FURNISH ALL LABOR MATERIALS AND EQUIPMENT FOR COMPLETE ELECTRICAL INSTALLATION IN ACCORDANCE WITH THESE DRAWINGS.
2. COMPLY WITH THE NEC AND THE SOUTH FLORIDA BUILDING CODE
3. PROVIDE EMPTY CONDUITS AS REQUIRED FOR TELEPHONE SYSTEM
4. OBTAIN ALL PERMITS FOR WORK UNDER THIS CONTACT
5. PROVIDE TEMPORARY POWER AND LIGHT OUTLETS FOR USE BY OTHER TRADES
6. NO APPLIANCES OUTLETS SHALL BE INSTALLED BELOW BASE FLOOD ELEV.
7. COORDINATE ALL OUTLET LOCATIONS WITH BUILDING ARCHITECTURAL FEATURES
8. CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS
9. A/C COMPRESSOR SHALL BE INSTALLED ABOVE BASE FLOOD ELEV.
10. OUTDOOR CONDUITS SHALL BE SCHEDULE 40 PVC MINIMUM COVER SHALL BE 24"
ALL MOUNTING HARDWARE SHALL BE BY CONTRACTOR
12. ELECTRICAL OUTLETS BELOW BASE ELEV. SHALL BE INSTALLED AT THE HIGHEST PERMITTED ELEV. AND SHALL BE INSTALLED (SEPARATE) AS INDEPENDANT CIRCUITS FROM THOSE IN THE HABITABLE AREAS
13. MAIN CIRCUIT BRK PANELS SHALL BE LOCATED ABOVE BASE FLOOD ELEV.
14. IT IS REQUIRED THAT COPPER WITH FPL TO LOCATED THE ELECT METER TO COMPLY W/ FEDERAL EMERGENCY MANAGEMENT AGENCY REQUIREMENTS



ELECTRICAL RISER DIAGRAM

As per ... REVIEWED



NOTE:
SMOKE DETECTOR SHALL BE HARDWIRED (110 VOLT TYPE) TO A NON-SWITCHABLE KITCHEN OR BATHROOM LIGHTING CIRCUIT WITH BATTERY BACK-UP AND SHALL NOT BE CONNECTED ONTO THE LOAD SIDE OF GROUND FAULT CIRCUIT INTERRUPTER. ALL SMOKE DETECTORS WITHIN EACH UNIT SHALL BE INTERCONNECTED.

SMOKE DETECTOR CONNECTION DETAIL NTS.

EXIST'G ELECTRICAL LOAD CALCULATION

A - GENERAL LIGHTING LOAD
1630 SF. x 3W/SF = 4890 WATTS
B - (2) SMALL APPLIANCE CIRCUITS X 1500 = 3000 WATTS
C - FIXED APPLIANCES: RANGE 12,000; REFRIGERATOR 1,000; DISHWASHER 1200; WASHER 1500; DRYER 5,000; WATER HEATER 4500

CONNECTED LOAD LESS A/C = 33,090 WATTS
10,000 W x 100% = 10,000 WATTS
REST W x 40% = 9236
(A/C (or heating) x 100% = 10000 WATTS
DEMAND LOAD = 29236 /240 WATTS = 122 AMPS @ 240/120 V
SERVICE SIZE = 150 AMPS

D - NEUTRAL LOAD
LIGHTING, SMALL APPLIANCE & WASHER 9390 WATTS
FIRST 3,000 W x 100% = 3,000 WATTS
REST W x 35% = 2236 WATTS
RANGE x 70% = 8400 WATTS
DRYER x 70% = 3500 WATTS
REFRIGERATOR = 1000 WATTS
DISHWASHER = 1200 WATTS

TOTAL NEUTRAL WATTS = 19336 WATTS = 81 AMPS

EXIST PANEL

TYPE : SQUARE "D" or APPROVED EQUAL
SERVICE :
VOLTAGE : 240/120 V 1Ø - 3 W
MOUNTING : SURFACE

MAIN BUS : 150 AMPS
NEUTRAL : 150 AMPS
MAINS : 150 AMPS
A/C : 10000

AMPS	POLES	TOTAL V.A.	COND SIZE	WIRE	REMARKS	CKT. NO	CKT NO	REMARKS	WIRE	COND SIZE	TOTAL V.A.	POLES	AMPS
60	2	10000	1"	6	A/C AHU-1	1	2	RANGE	6	"	5600	2	50
						3	4						
30	2	5000	3/4"	10	DRYER	5	6	A/C COMP-1	8	3/4"	6300	2	40
						7	8						
25		4000	1/2"	10	WATER HEATER	9	10	DISHWASHER	12	1/2"	1200	1	20
						11	12	BATH GFI RECEPTACLE	12	1/2"	600	1	20
20		1500	1/2"	12	WASHER	13	14	SMALL APPL.	12	1/2"	1500	1	20
					SPACE	15	16	SMALL APPL.	12	1/2"	1500	1	20
20		600	1/2"	12	RECEP OUT-GFI	17	18	REFRIGERATOR	12	1/2"	1500	1	20
15	1	600	1/2"	14	GEN LT & RECEP	19	20	GEN LT & RECEP	14	1/2"	600	1	15
						21	22						
						23	24						
						25	26						
15		600	1/2"	14	NEW GEN LT & RECEP	27	28	NEW GEN LT & RECEP	14	1/2"	600	1	15
15		600	1/2"	14	NEW GEN LT & RECEP	29	30	ELECT. HEATER	12	1/2"	600	1	20
					SPACES	31	32	NEW GEN LT & RECEP	14	1/2"	600	1	15
						33	34	NEW GEN LT & RECEP	14	1/2"	600	1	15
						35	36	SPACES					
						37	38						
						39	40						

DMND LOAD = 29236 WATTS = 122 AMPS

FEEDER : 2 # 1/0 AND 1 # 2 THWN IN 1½" COND.
FED FROM : SERVICE.

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED ... PERMIT BY
TH...

ELECT LEGEND

- Wall Switch 15 A 125 V
- Duplex Receptacle 15 A 125 V
- Incandescent Lighting Fixture
- Wall Bracket Light
- Junction Box
- Phone Outlet
- T.V. Outlet
- Electrical Panel
- Disconnecting Switch
- Smoke Detector
- Electrical Meter

Design
Consultants Engineer State of Florida
Emilio R. Pinero

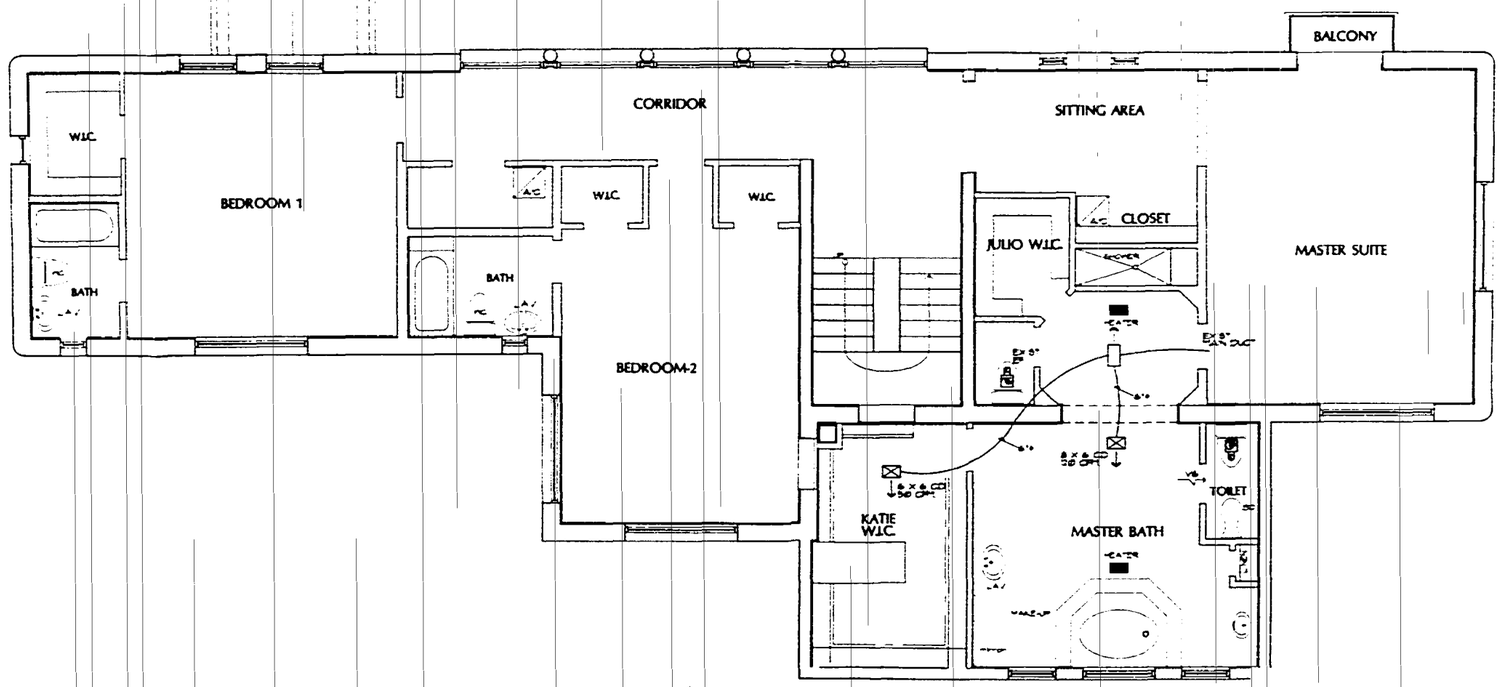
FOUNDATION REPAIR TO EXISTING BUILDING AD...
4230 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA
TELEPHONE: (305) 446-0863

REVISIONS :
1-
2-
3-
4-

DATE :
SCALE : SHOWN
DRAWN :
JOB NO. :

E-1

SHEET NO. :



SECOND FLOOR PLAN

SCALE: 1/4"=1'-0"

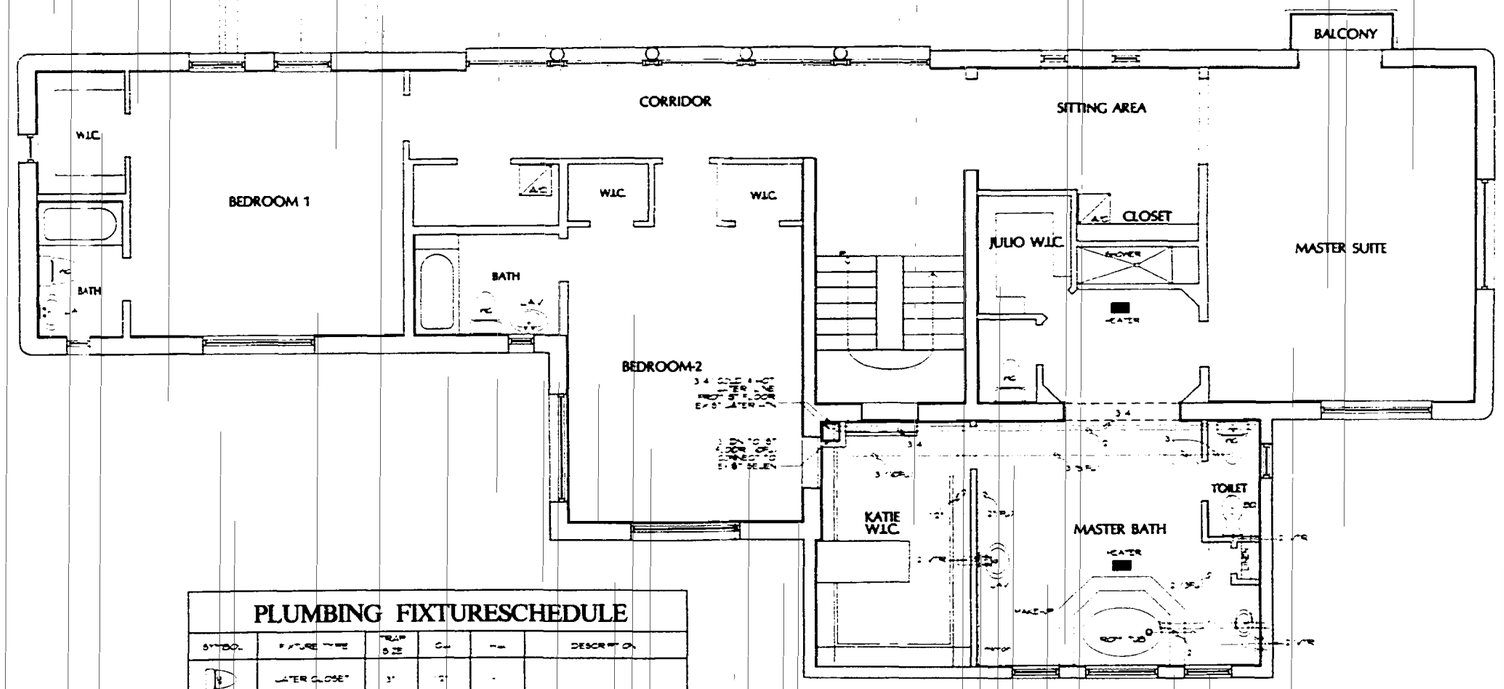
REVIEWED

EXT. BALCONY CONVERSION TO BAR

4230 NORTH BAY RD.

MR. JULIO MARRERO

M-1



PLUMBING FIXTURESCHEDULE

SYMBOL	FIXTURE TYPE	TRAP SIZE	C.W.	H.W.	DESCRIPTION
	WATER CLOSET	3"	1/2"	-	
	LAVATORY	1 1/2"	1/2"	1/2"	
	BOTTOM TUB	2"	1/2"	1/2"	WALL SCALD VALVES

NOTE
ALL DRAIN PIPING UNDER SLAB SHALL BE 2" MIN.
2" & LESS D.A. DRAIN @ 1/4" DROP
3" & 4" LESS D.A. DRAIN @ 1/8" DROP

SECOND FLOOR PLAN
SCALE: 1/4"=1'-0"

As per Fl... REVIEWED

OFFICE COPY
...EACH

FOUNDATION PLAN & ELECTRICAL PLAN
4220 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA.

Emilio L. Pinero

P-1

CONCRETE BEAM SCHEDULE

BEAM MARK	BEAM TYPE	TOP OF TIE BEAM ELEV.	WIDTH	HEIGHT	REINFORCING T	REINFORCING MID.	REINFORCING B	#3 STIRRUPS	REMARKS
"B"	A		8"	12"	2#5	2#5	2#5	#6 @ 8" O.C.	SEE NOTES BELOW
B	B		8"	16"	2#5	2#5	2#5	#6 @ 8" O.C.	

BEAM TYPES

TYPE - A TYPE - B

CONCRETE BEAM NOTES:
1. ARCHITECT TO REVIEW AND APPROVED ALL BEAM ELEVATIONS AND BEAM DEPTHS
2. TIE BEAMS SHALL HAVE #3 TIES AT 8" O.C. AT ALL CORNERS EACH END AND 48" O.C. REMAINDER
3. PROVIDE 2#5 x 60" CORNER BARS BENT 90° EACH WAY @ ALL CORNERS

COLUMN SCHEDULE

MARK	COL. TYPE	DIMENSIONS	REINFORCEMENT V	REINFORCEMENT TIES	REMARKS
C	A	8" x 8"	4#5	#3 @ 8" O.C.	CONCRETE COLUMN F'C = 3000 PSI
C1	A	8" x 8"	4#5	#3 @ 8" O.C.	CONCRETE COLUMN F'C = 3000 PSI

COLUMN TYPES

TYPE - A

NEW 8"x8"x16" CMU WALL REINF AS PER PLANS

NEW 8"x16" CONC BEAM W/ 2#5 TOP & BTM #3 TIES @ 8" OC

2#5 VERTICAL REINF DOWELS x 18" LONG EMBEDDED INTO EXISTING BLOCK W/ HILTI C-100 EPOXY SYSTEM W/ EMBEDMENT 6"

EXISTING 6"x16"x16" MASONRY BLOCK

SAW CUT AND REMOVE EXISTING BLOCK COURSE TO BE FLUSH WITH EXISTING BLOCK

SECTION

NEW BEAM B-1 DETAIL

NEW 8" CMU WALL

NEW CONC BEAM B-1 (SEE SCHEDULE)

#5 x 12" LONG DOWEL EMBEDED INTO EXIST CONCR BEAM W/ HILTI C-100 EPOXY SYSTEM W/ EMB 4"

2 X 6 PT WOOD NAILER ATTACHED TO CONC W/ 1/2" DIAM EXP. ANCHORS @ 16" O.C.

EXISTING CONCRETE BEAM

NAILER DETAIL 2 / A-2

NEW 2 X 12 WOOD JOISTS @ 12" O.C.

NEW BEAM B-1 DETAIL

1½" CLEAR COVER ALL AROUND

NEW CONCRETE COLUMN W/ 4 #5 VERTICAL REINF BARS AND #3 TIES @ 8" O.C.

4 #5 STARTER BARS EMB. INTO EXIST COLUMN W/ HILTI C-100 EPOXY SYSTEM (MIN. EMB 9") NEW CONCRETE COLUMN W/ 4 #5 VERTICAL REINF BARS AND #3 TIES @ 8" O.C.

30" SPLICES

5'

EXISTING COLUMN

COLUMN CONTINUATION DETAIL

3/4" PLYWOOD DIAPHRAGM W/ 10d NAILS @ 6" O.C. @ INT. SUPPORTS AND AT PANEL EDGES PLYWOOD SHALL BE GLUED W/ ADHESIVES MEETING REQUIREMENTS OF AFG-01 (TYPICAL).

2"x12" PT WOOD JOISTS @ 12" O.C.

(2) 2"x12" PT LEDGER FASTENED TO TIE THE BEAM W/ 3/4" DIAM HILTI EXPANSION ANCHORS @ 12" O.C. (4-3/4" EMBEDMENT).

TYPICAL LEDGER DETAIL 1 / A2

EXISTING CONCRETE FILLED CELLS OR COLUMN

4 #5 DOWELS X 16" LONG EMBEDED INTO EXISTING CONCRETE W/ HILTI C-100 EPOXY SYSTEM MIN EMBEDMENT 4"

NEW CONCRETE BEAM B-1 SEE SCHEDULE

NEW B-1 TO EXISTING WALL CONNECTION 3 / A-2

CORRIDOR

SITTING AREA

BALCONY

W.I.C.

BEDROOM 1

BATH

W.I.C.

W.I.C.

BATH

BEDROOM-2

JULIO W.I.C.

CLOSET

MASTER SUITE

HEATER

KATIE W.I.C.

MASTER BATH

TOILET

2"x6" PT WOOD NAILER ATTACHED TO CONCRETE W/ 1/2" DIAM EXP ANCHORS @ 16" O.C.

2"x6" PT WOOD BLOCKING BETWEEN EA JOIST @ MID SPAN ATTACHED W/ 16d NAILS EA PC

2"x12" PT WOOD LEDGER ATTACHED TO CONCRETE W/ 3/4" DIAM EXP ANCHORS @ 16" O.C. MIN EMB 4-3/4"

2"x12" PT WOOD JOISTS @ 12" O.C.

FRAMING PLAN
SCALE: 1/4"=1'-0"

SECOND FLOOR PLAN
SCALE: 1/4"=1'-0"

REVIEW

FOUNDATION PLAN

4230 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA
TELEPHONE: (305) 446-0663

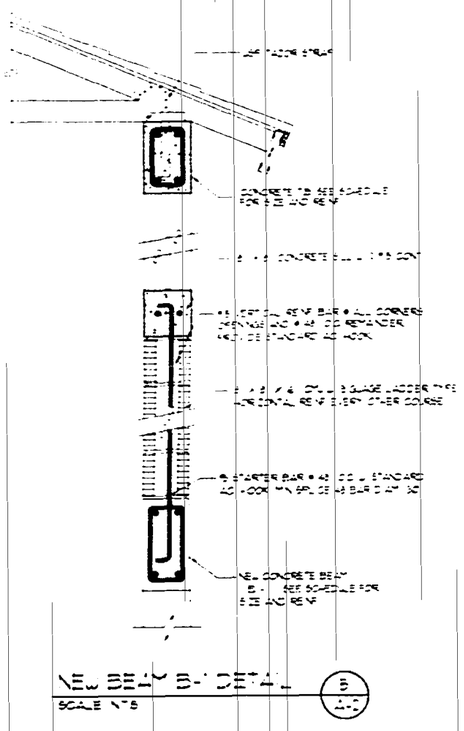
Design

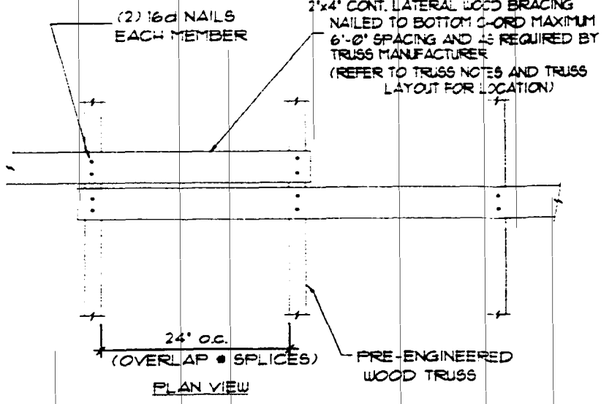
Emilio R. Pisaro

REVISIONS

DATE: MONTH-OCT-2000
SCALE: SHOWN
DRAWN: CK'D
JOB NO.: 2000 MONTH

S-1





STRUCTURAL NOTES

APPLICABLE CODES:
A. SFBC DADE COUNTY 1994 EDITION
B. ACI 318-95 REINFORCED CONCRETE
C. REINFORCED MASONRY BY ACI 530-95 AND "NE MASONRY DESIGNERS GUIDE BY ACI, TMS, ASCE
E. WIND ANALYSIS AND DESIGN PER ASCE 7-88

REINFORCING STEEL fy = 60,000 PSI, fc = 3,000 PSI, Es = 29,000,000 PSI.
Em = 1,500,000 PSI, n = Es/Ec = 21.48
ALL BLOCK IS ASTM C-90 HOLLOW 3/4" MASONRY DESIGN fm = 1500 PSI.
GROUT SHALL COMPLY WITH ASTM C476 28 DAYS MIN. COMP. STRENGTH = 3,000 PSI.
GROUT SLUMP REQUIRED ------ 8" TO 11" PROVIDE CLEANOUT HOLES AT BOTTOM COURSE AND BOTTOM OF FILLED CELL.
MORTAR SHALL COMPLY WITH ASTM C270
MORTAR SLUMP REQUIRED ------ 9" TO 11" TYPE M OR PER SFBC 2106.4B
CONTRACTOR TO CONSOLIDATE GROUT WITH #4 VIBRATOR.

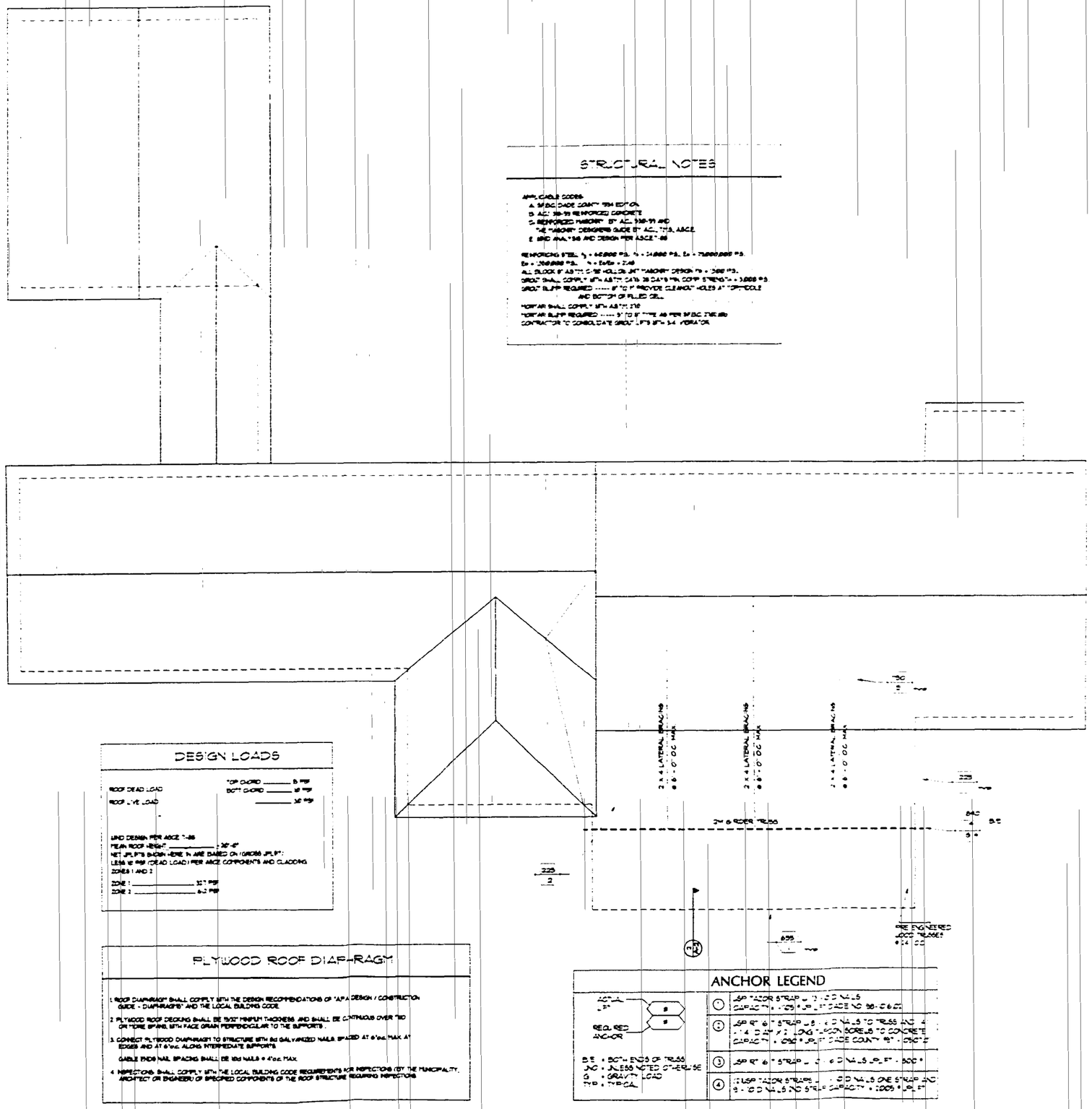
DESIGN LOADS

ROOF DEAD LOAD — TOP CHORD _____ 5 PSF, BOTT CHORD _____ 10 PSF
ROOF LIVE LOAD _____ 20 PSF

WIND DESIGN PER ASCE 7-88
MEAN ROOF HEIGHT _____ 30'-0"
NET UPLIFTS SHOWN HERE IN ARE BASED ON (GROSS UPLIFT - LESS 10 PSF DEAD LOAD) PER ASCE COMPONENTS AND CLADDING
ZONES 1 AND 2
ZONE 1 _____ 32.7 PSF
ZONE 2 _____ 44.2 PSF

PLYWOOD ROOF DIAPHRAGM

1. ROOF DIAPHRAGM SHALL COMPLY WITH THE DESIGN RECOMMENDATIONS OF "APA DESIGN / CONSTRUCTION GUIDE - DIAPHRAGMS" AND THE LOCAL BUILDING CODE.
2. PLYWOOD ROOF DECKING SHALL BE 15/32" MINIMUM THICKNESS AND SHALL BE CONTINUOUS OVER TWO OR MORE SPANS, WITH FACE GRAIN PERPENDICULAR TO THE SUPPORTS.
3. CONNECT PLYWOOD DIAPHRAGM TO STRUCTURE WITH 8d GALVANIZED NAILS SPACED AT 6"o.c. MAX. AT EDGES AND AT 6"o.c. ALONG INTERMEDIATE SUPPORTS.
   GABLE END NAIL SPACING SHALL BE 10d NAILS @ 4"o.c. MAX.
4. INSPECTIONS SHALL COMPLY WITH THE LOCAL BUILDING CODE REQUIREMENTS FOR INSPECTIONS BY THE MUNICIPALITY, ARCHITECT OR ENGINEER OF SPECIFIED COMPONENTS OF THE ROOF STRUCTURE REQUIRING INSPECTIONS.



ANCHOR LEGEND

ACTUAL 5"
REQUIRED ANCHOR
B.E. = BOTH ENDS OF TRUSS
U.N.O. = UNLESS NOTED OTHERWISE
G = GRAVITY LOAD
N.T.S. = NOT TO SCALE

①	.050" THICK STRAP W/ 12 - 0.0 NAILS CAPACITY = 1005 LBS PER SFBC NO 98-0602
②	.050" THICK 6" STRAP W/ 8 - 0.0 NAILS TO TRUSS AND 4 - 1/4" DIA. X 2" LONG TAPCON SCREWS TO CONCRETE CAPACITY = 1092 LBS PER SFBC COUNTY NO. 95-0502.2
③	.050" THICK 6" STRAP W/ 8 - 0.0 NAILS PER END - 500 LBS
④	.050" THICK STRAP W/ 12 - 0.0 NAILS ONE STRAP AND 8 - 0.0 NAILS NO STRAP CAPACITY = 1005 LBS PER

EXTERBALCONY CONTRACTORS INC.
4220 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA
TELEPHONE: (305) 446-0846

Emilio R. Pinero

DATE: MONTH-DAY-2000
SCALE: SHOWN
DRAWN: DP
JOB NO.: 2000-MONTH

S-2

CONCRETE BEAM SCHEDULE

BEAM MARK	BEAM TYPE	TOP OF BEAM ELEV.	WIDTH	HEIGHT	REINFORCING T	REINFORCING MID.	REINFORCING B	#3 STIRRUPS	REMARKS
B-	A	9'	8"	24"	3 #5		3 #5		SEE NOTES BELOW
B-	B	9'	6"	24"	3 #5		3 #5	#6 @ 6" O.C.	

BEAM TYPES

TYPE - A TYPE - B

CONCRETE BEAM NOTES

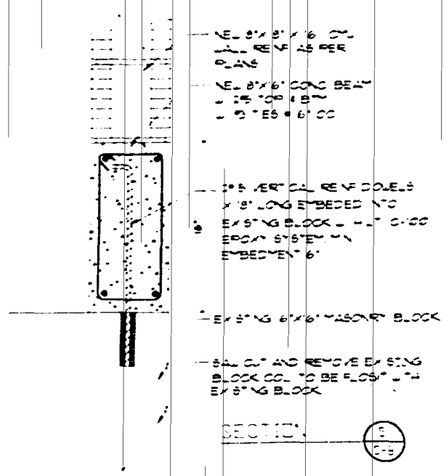
1. ARCHITECT TO REVIEW AND APPROVED ALL BEAM ELEVATIONS AND BEAM DEPTHS
2. TIE BEAMS SHALL HAVE 4 #5 TIES AT 3" O.C. AT ALL CORNERS EA WAY AND 48" O.C. REMAINDER
3. PROVIDE 2 #5 x 60" CORNER BARS BENT 90° EACH WAY @ ALL CORNERS

COLUMN SCHEDULE

MARK	COL TYPE	DIMENSIONS	REINFORCEMENT V	REINFORCEMENT TIES	REMARKS
C-	A	8" x 8"	4 #5	#3 @ 8" O.C.	CONCRETE COL F'C = 3000 PSI
C-	A	8" x 8"	4 #6	#3 @ 8" O.C.	CONCRETE COL F'C = 3000 PSI

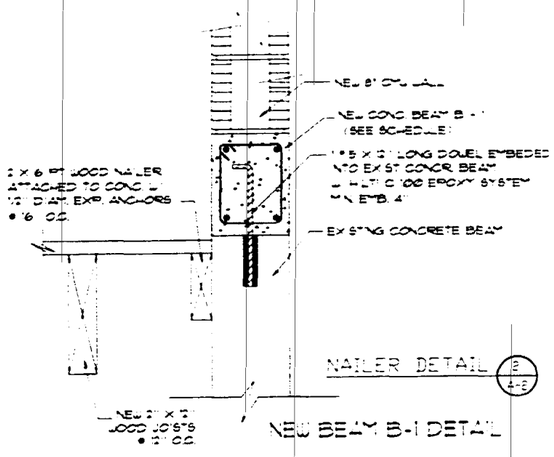
COLUMN TYPES

TYPE - A



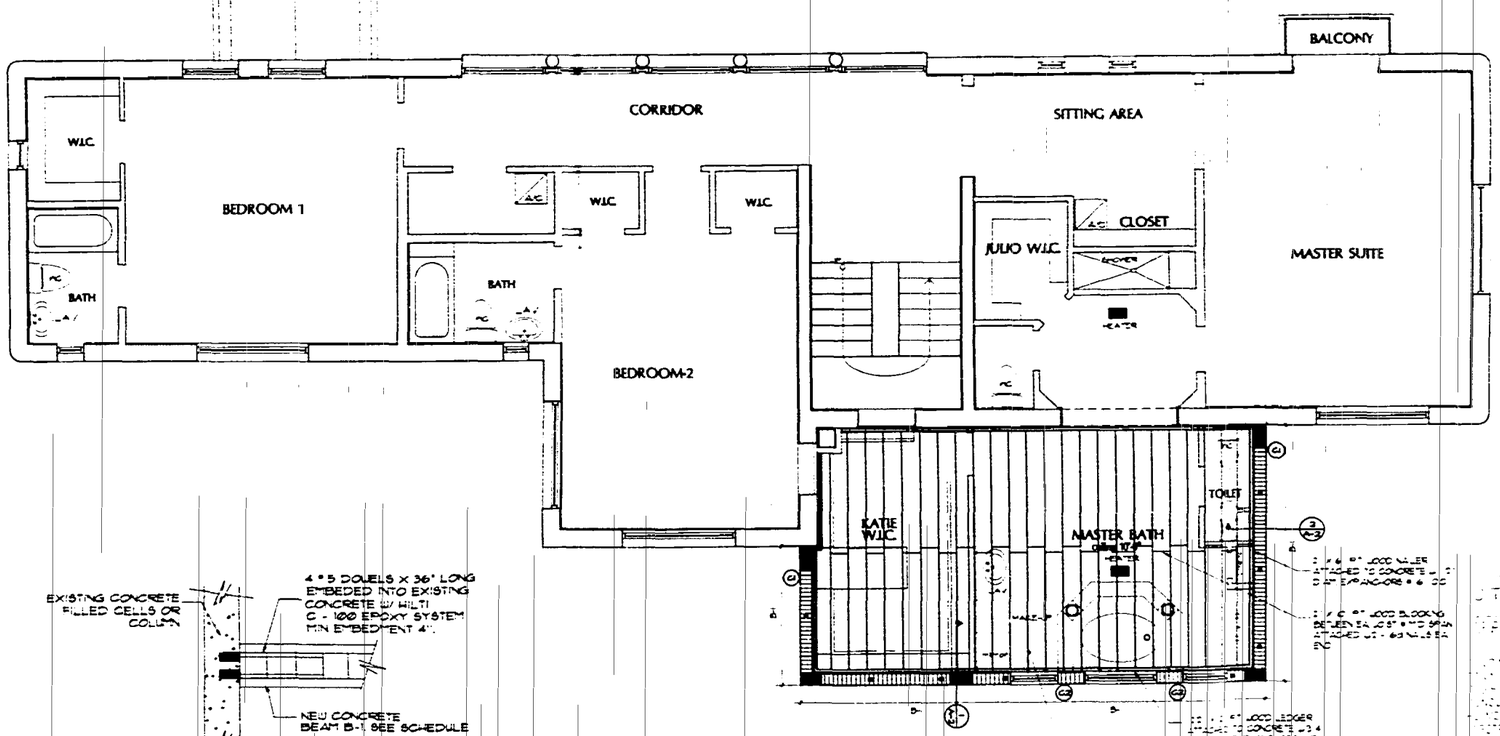
SECTION 5 / C-2

NEW BEAM B-1 DETAIL



NAILER DETAIL 3 / A-2

NEW BEAM B-1 DETAIL



TYPICAL LEDGER DETAIL 1 / A2

SCALE: 1"=1'-0"

NEW B-1 TO EXISTING WALL CONNECTION 3 / A-2

FRAMING PLAN

SCALE: 1/4"=1'-0"

SECOND FLOOR PLAN

SCALE: 1/4"=1'-0"

EXTERIOR COLUMN / BEAM

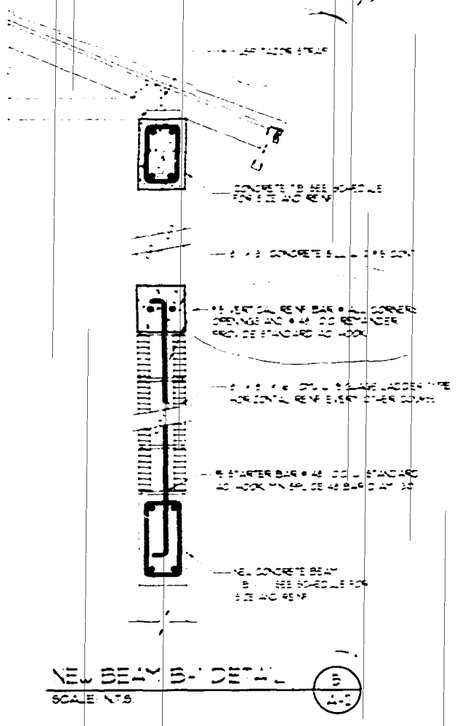
4230 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA
TEL/FAX/HOME: (305) 446-0863

Emilio R. Pinera

DATE: MONTH-DAY-2000
SCALE: SHOWN
DRAWN: I.P.
JOB NO.: 2000-MONTH

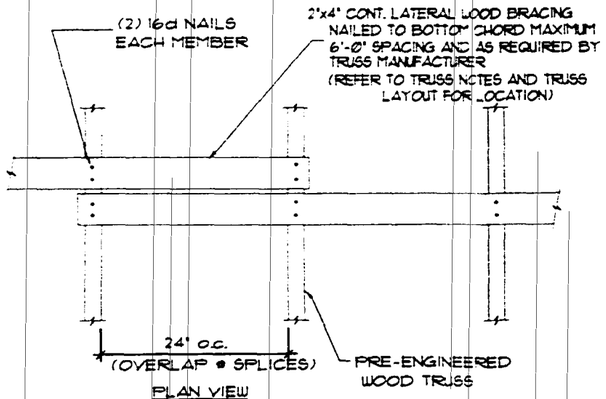
S-1

SHEET NO. 1 OF 10



NEW BEAM B-1 DETAIL

SCALE: N.T.S.



TYPICAL LATERAL BRACE SPLICE

SCALE: N.T.S.

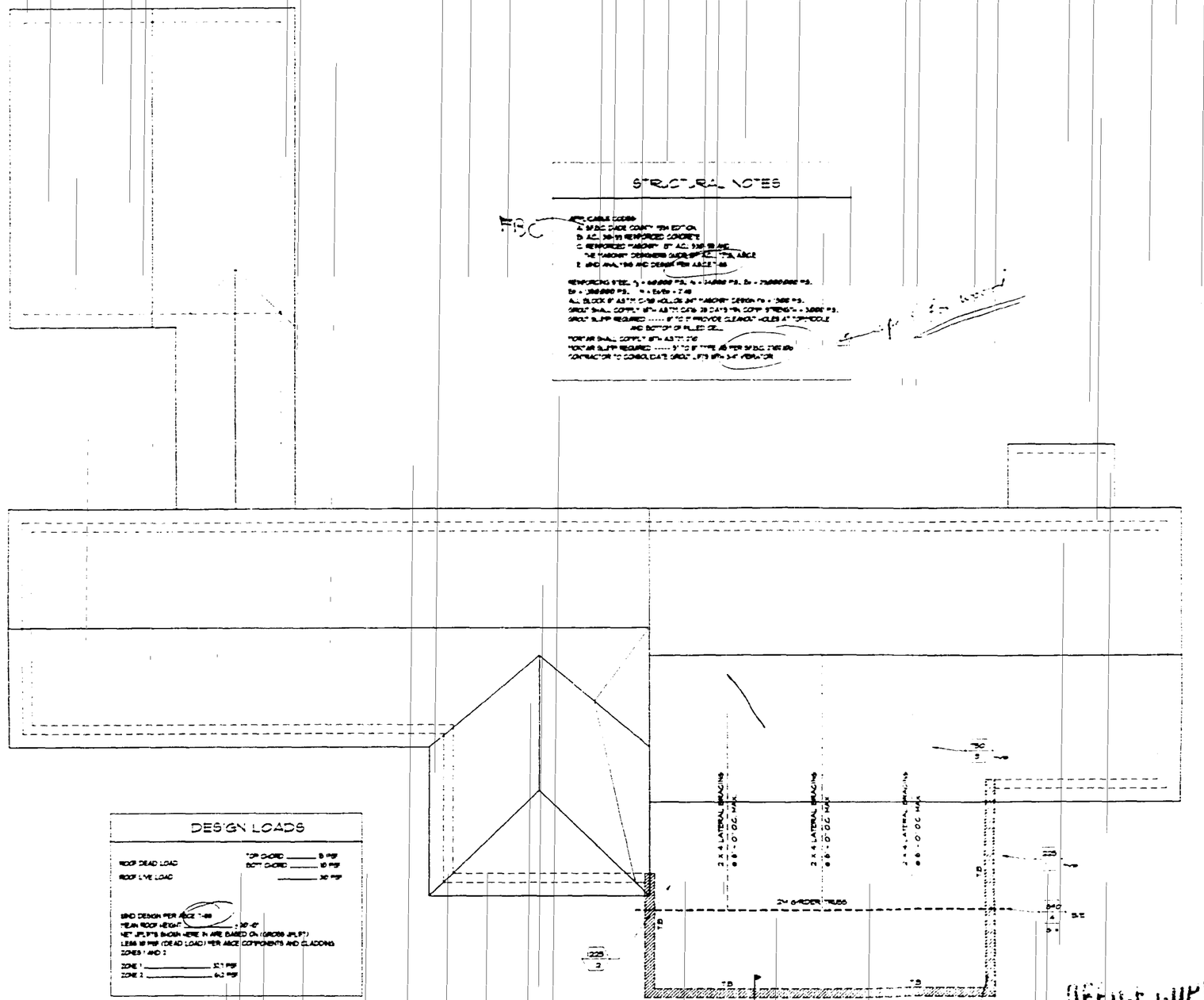
STRUCTURAL NOTES

FBC

A. MIAMI-DADE COUNTY 1994 EDITION
B. ACI 318-89 REINFORCED CONCRETE
C. REINFORCED MASONRY: ACI 530-88/ANSI
THE MASONRY DESIGNER SHALL BE [illegible] FOR ASCE
D. WIND ANALYSIS AND DESIGN PER ASCE 7-88

REINFORCING STEEL: f_y = [illegible] PSI, f_c = [illegible] PSI, E_s = [illegible] PSI.
E_c = [illegible] PSI, $n = E_s/E_c$ = [illegible]
ALL BLOCK IS ASTM C-90 HOLLOW JNT MASONRY DESIGN f'_m = [illegible] PSI.
GROUT SHALL COMPLY WITH ASTM C476 28 DAYS MIN. COMP STRENGTH = [illegible] PSI.
GROUT SLUMP REQUIRED ..... 8" TO 9" PROVIDE CLEANOUT HOLES AT EACH CELL AND BOTTOM OF FILLED CELL.

MORTAR SHALL COMPLY WITH ASTM C270
MORTAR SLUMP REQUIRED ..... 9" TO 11" TYPE "S" PER SPEC. 2100-6(b)
CONTRACTOR TO CONSOLIDATE GROUT WITH 3/4" VIBRATOR



DESIGN LOADS

ROOF DEAD LOAD — TOP CHORD ____ 5 PSF; BOTT CHORD ____ 10 PSF
ROOF LIVE LOAD ____ 30 PSF

WIND DESIGN PER ASCE 7-88
MEAN ROOF HEIGHT ____ : 30'-0"
"NET" PSF'S SHOWN HERE IN ARE BASED ON (GROSS PSF) LESS 10 PSF (DEAD LOAD) PER ASCE COMPONENTS AND CLADDING
ZONES 1 AND 2:
ZONE 1 ____ 32.1 PSF
ZONE 2 ____ 64.2 PSF

PLYWOOD ROOF DIAPHRAGM

1. ROOF DIAPHRAGM SHALL COMPLY WITH THE DESIGN RECOMMENDATIONS OF APA DESIGN / CONSTRUCTION GUIDE - DIAPHRAGMS" AND THE LOCAL BUILDING CODE.
2. PLYWOOD ROOF DECKING SHALL BE 15/32" MINIMUM THICKNESS, AND SHALL BE CONTINUOUS OVER TWO OR MORE SPANS, WITH FACE GRAIN PERPENDICULAR TO THE SUPPORTS
3. CONNECT PLYWOOD DIAPHRAGM TO STRUCTURE WITH 8d GALVANIZED NAILS SPACED AT 6" O.C. MAX. AT EDGES AND AT 6" O.C. ALONG INTERMEDIATE SUPPORTS.
GABLE ENDS NAIL SPACING SHALL BE 16d NAILS @ 4" O.C. MAX.
4. INSPECTIONS SHALL COMPLY WITH THE LOCAL BUILDING CODE REQUIREMENTS FOR INSPECTIONS BY THE MUNICIPALITY, ARCHITECT OR ENGINEER OF SPECIFIED COMPONENTS OF THE ROOF STRUCTURE REQUIRING INSPECTIONS.

ANCHOR LEGEND

ACTUAL / REQUIRED ANCHOR

BE = BOTH ENDS OF TRUSS
UNO = UNLESS NOTED OTHERWISE
G = GRAVITY LOAD
TYP = TYPICAL

① [illegible]
② [illegible]
③ [illegible]
④ [illegible]

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMITS
THE FOLLOWING

Design
Consulting Engineer
State of Florida
Emilio R. Pinero

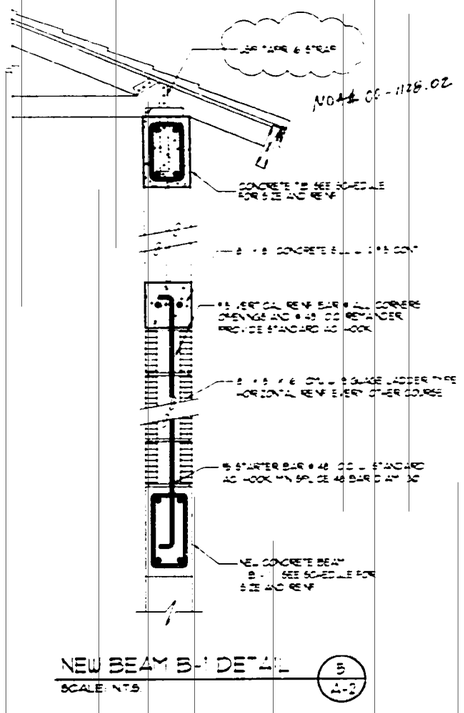
REVISIONS:
DATE: MONTH-OCT-2000
SCALE: SHOWN
DRAWN: [illegible]
JOB NO.: 2000-MONTH

S-2

SHEET NO.: 2 OF 10

INSTALLATION REPAIR OF EXISTING

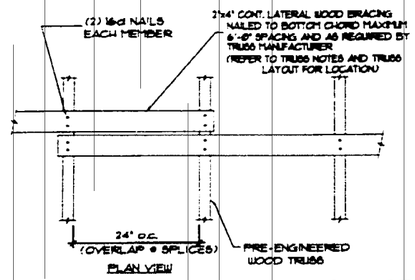
4230 NORTH BAY RD.
MR. JULIO MARRERO
MIAMI BEACH, FLORIDA
TELEPHONE: (305) 446-0661



NEW BEAM DETAIL

SCALE: N.T.S.

S-1
A-2



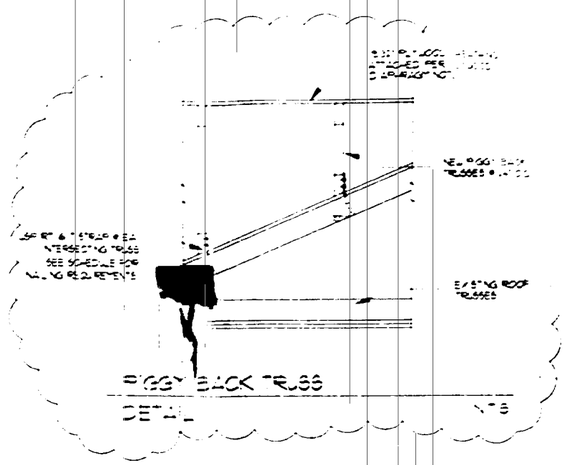
TYPICAL LATERAL BRACE SPLICE

SCALE: N.T.S.

STRUCTURAL NOTES

APPLICABLE CODES:
A. FBC, [illegible] 2007 EDITION
B. ACI 318-99 REINFORCED CONCRETE
C. REINFORCED MASONRY BY ACI 530-99 AND "THE MASONRY DESIGNERS GUIDE BY ACI, TMS, ASCE
E. WIND ANALYSIS AND DESIGN PER ASCE 7-98

REINFORCING STEEL: f_y = 60,000 P.S.I., f_c = 3,000 P.S.I. Es = 29,000,000 P.S.I.
Es = 1,350,000 P.S.I. n = Es/Ec = 2.49
ALL BLOCK IF ASTM C-90 HOLLOW JNT MASONRY DESIGN f'_m = 1500 P.S.I.
GROUT SHALL COMPLY WITH ASTM C476 28 DAYS MIN. COMP. STRENGTH = 3,000 P.S.I.
GROUT SLUMP REQUIRED ------ 8" TO 9" PROVIDE CLEANOUT HOLES AT TOP, MIDDLE AND BOTTOM OF FILLED CELL
MORTAR SHALL COMPLY WITH ASTM C-270
MORTAR SLUMP REQUIRED ------ 8" TO 9" TYPE AS PER FBC 2007/R5
CONTRACTOR TO CONSOLIDATE GROUT LIFTS WITH 3/4" VIBRATOR



DESIGN LOADS

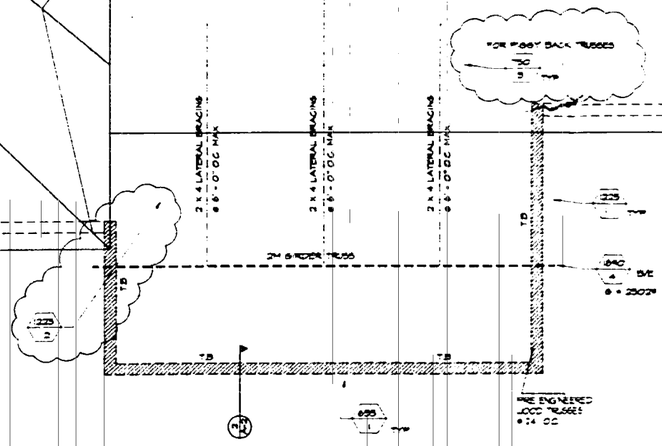
ROOF DEAD LOAD — TOP CHORD ——— 8 PSF; BOTT. CHORD ——— 10 PSF

ROOF LIVE LOAD ——— 30 PSF

WIND DESIGN PER ASCE 7-98
MEAN ROOF HEIGHT ——— ± 7'-9"
NET UPLIFTS SHOWN HERE IN ARE BASED ON (GROSS UPLIFT)
LESS 10 PSF (DEAD LOAD) PER ASCE COMPONENTS AND CLADDING
ZONES 1 AND 2 & 3
ZONE 1 ——— 30.1 PSF
ZONE 2 ——— 51.2 PSF
& 3

PLYWOOD ROOF DIAPHRAGM

1. ROOF DIAPHRAGM SHALL COMPLY WITH THE DESIGN RECOMMENDATIONS OF "APA DESIGN / CONSTRUCTION GUIDE - DIAPHRAGMS" AND THE LOCAL BUILDING CODE.
2. PLYWOOD ROOF DECKING SHALL BE 7/32" MINIMUM THICKNESS, AND SHALL BE CONTINUOUS OVER TWO OR MORE SPANS, WITH FACE GRAIN PERPENDICULAR TO THE SUPPORTS.
3. CONNECT PLYWOOD DIAPHRAGM TO STRUCTURE WITH 8d GALVANIZED NAILS, SPACED AT 6"o.c. MAX. AT EDGES AND AT 6"o.c. ALONG INTERMEDIATE SUPPORTS.
   GABLE ENDS NAIL SPACING SHALL BE 16d NAILS @ 4"o.c. MAX.
4. INSPECTIONS: SHALL COMPLY WITH THE LOCAL BUILDING CODE REQUIREMENTS FOR INSPECTIONS (BY THE "MUNICIPALITY, ARCHITECT OR ENGINEER) OF SPECIFIED COMPONENTS OF THE ROOF STRUCTURE REQUIRING INSPECTION.
5. SUBMIT 2 COPIES TO ROOF SHOP DRAWINGS FOR ENGINEERS APPROVAL PRIOR TO FABRICATION.



ANCHOR LEGEND

ACTUAL UPLIFT / REQUIRED ANCHOR

B.E. = BOTH ENDS OF TRUSS
U.N.O. = UNLESS NOTED OTHERWISE
G = GRAVITY LOAD
TYP. = TYPICAL

① 5/8" DIA. A.B. @ 6'-0" O.C. STRAP @ 3'-0" O.C. NAILS CAPACITY = 1265 # UPLIFT GRADE NO. 55-1/2 G.I.

② 5/8" DIA. (2) A.B. @ 6'-0" O.C. STRAP @ 6'-0" O.C. NAILS TO TRUSS AND 14 - 16d COMM. x 3" LONG "LIPPED" SCREWS TO CONCRETE EA. STRAP CAPACITY = 2530 # UPLIFT. GRADE COUNTY #2 - 2507 G.I.

③ 5/8" DIA. A.B. @ 6'-0" O.C. STRAP @ 3'-0" O.C. NAILS UPLIFT = 800 #

④ (2) 5/8" DIA. THRU-BOLT @ 6'-0" O.C. NAILS ONE STRAP AND 7 - 16d COMM. NAILS STRAP CAPACITY = 2005 # UPLIFT GRADE COUNTY #2 - 2507 G.I.

Aspen Finish
REVIEWED

FOUNDATION PLAN, EXISTING BUILDING & NEW ADDITION

MR. JULIO MARRERO

4230 NORTH BAY RD.
MIAMI BEACH, FLORIDA
TELEPHONE (305) 446-0360

Emilio L. Pinero

REVISIONS:

DATE: MONTH-DAY-2007
SCALE: SHOWN
DRAWN: E.P. & A.M.
JOB NO.: 2007-MONTH#

S-2

SHEET NO.: 2 OF 10

B0204098

4930 N BAY RD

PERMIT #

B0505926

26

WIND LOAD TABLES FOR
COMPONENTS & CLADDING
AS PER SECTION
1620

BASIC WIND SPEED V = 146 MPH
IMPORTANCE FACTOR I = 1.0
DIRECTIONALITY FACTOR Kd = 1
FOR WIND RESISTANT SHUTTERS OR AWNINGS WITH SHUTTERS
RESIDENTIAL CONFIG. WITH GABLE ROOF
10 TO 30 FT

(BASED ON INFORMATION PROVIDED BY CLIENT)

CLIENT: La Balear Inc.
JOB: 1230 N 5th Road
Miami Beach, Fla.

BUILDING HEIGHT: 25'

BUILDINGS EQUAL OR LESS THAN 40 FEET HIGH

MEAN ROOF HEIGHT (FT)	ROOF SLOPE	EXPOSURE B MAX. DESIGN LOADS-PSF
		GC_p
15	7°	+0.73
		-0.82
25	7°	+0.73
		-0.91
30	7°	+0.73
		-0.99

NOTES:
1. LOADS APPLICABLE AND VERIFIED WHEN AT MEAN ROOF HEIGHT AND ABOVE TO BE EVALUATED

TABLE ABOVE SHOWS MAXIMUM DESIGN LOADS FOR SHOWN BUILDING HEIGHTS AND END ZONES
FOR ALL OTHER CONDITIONS/ZONES DESIGN LOADS TO BE EVALUATED ON JOB TO JOB BASIS

JUL 1 9 2005

DADE COUNTY

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & SECURITY CONSULTANTS
1235 SW 82 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8700 FAX (305) 261-4378

AFC-23A

Florida Storm Panels

14475 N.W. 26 Avenue • Opalocka, FL 33054 • 685-9990 • 685-9000 • FAX 685-7511

SHUTTER PRODUCT APPROVAL AUTHORIZATION FORM

Building Official

Dear Mr. Building Official:

We are Dade County Notice of Acceptance holder for the 22gauge panels under number 02-1120.02

This letter authorizes La Balear, Inc. DBA Shutter M.D. to use our 22ga. Panels under number 02-1120.02 to be used at the following job.

1230 N. 5th Road, Fla.

Sincerely,

Victor V. Cruz
President

or

Enrique Revilla
Vice-President

1. This form must accompany the application for building permit and shall become part of the permit documents.
2. The authorized signature must bear the raised corporate seal of the company holding the Dade County Notice of Acceptance.

37 X 52

4230 N. Bay Rd
2nd. Floor

52 X 52

Total
Sqft.45.497

37 X 52

Front Entrance

1st./ Floor

APPROVED FOR PERMIT W
THE FOLLOWING:

BUILDING:
ZONING:
UNIT#/FR:
CONCURRENCY
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
PUBLIC WORKS:
STRUCTURAL:
ACCESSIBILITY:
ELEVATOR:

As per Florida Building Code Section 104.5.3
BUILDING FOR CODE COMPLIANCE

B1505926

MIAMI-DADE COUNTY, FLORIDA

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

NOTICE OF ACCEPTANCE (NOA)

SCOPE:

This NOA is issued under the applicable rules and regulations governing the use of construction materials. The document submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Miami-Dade County Product Control Division (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 immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 0.025" (min.) Galvanized Steel Storm Panels Shutter

APPROVAL DOCUMENT: Drawing No.02-0614.11, titled "25ga Galvanized Steel Storm Panels", sheets 1 through 4 of 4, prepared by Frank L. Bernardo, P.E., dated October 1, 2002, last revised January 02, 2003 bearing the Miami-Dade County Product Control Approval stamp with the NOA number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact

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

RENEWAL of this NOA shall be considered after a renewal application has been filed, if there is no change in the applicable codes or code negatively affecting the performance of this product.

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

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

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

This NOA consists of [illegible] page, and as well as approval document mentioned above.
The submitted documentation was reviewed by Henry A. Mieres, P.E.

NOA No: 02-1129.02
Expiration Date: 01/23/2008
Approval Date: 01/23/2003
Page 1

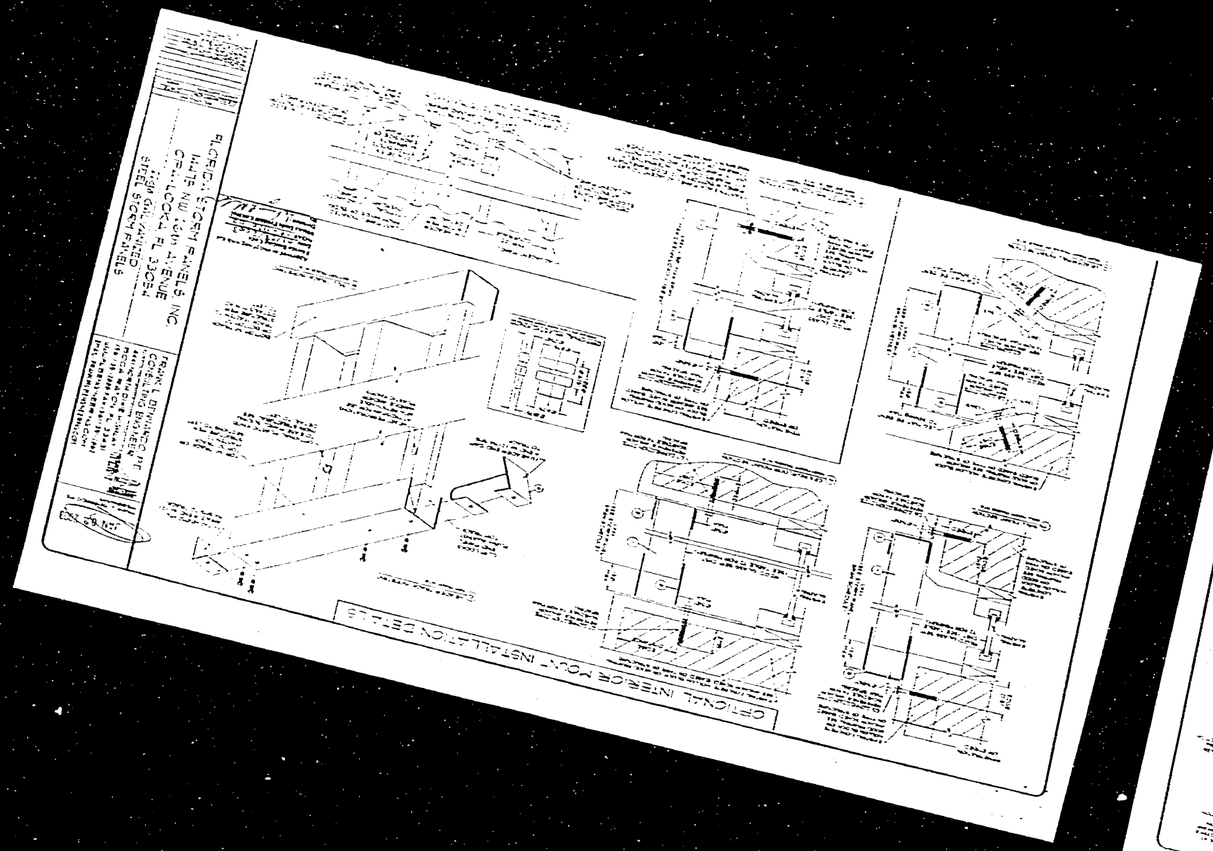
GENERAL NOTES

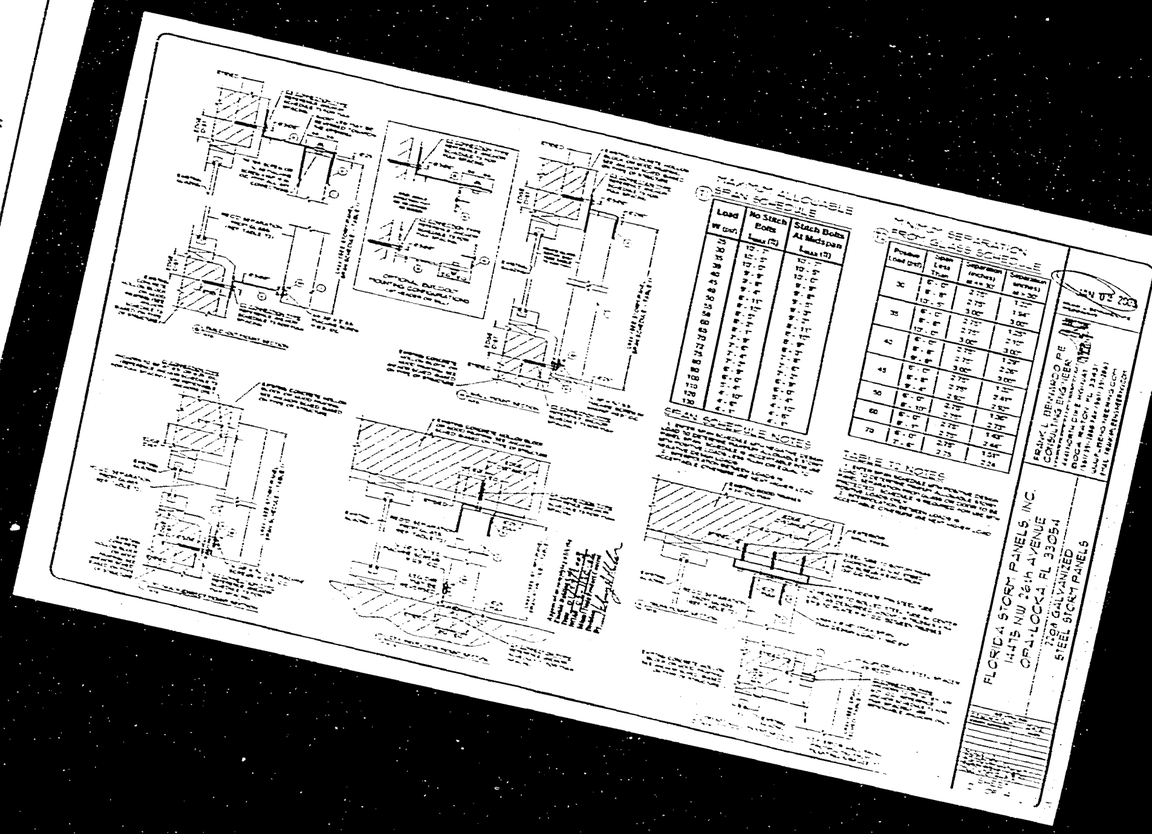
FRANK L. BERNARDO, PE
CONSULTING ENGINEER
[illegible]
FLORIDA REGISTRATION NO. 33431
[illegible]
[illegible]

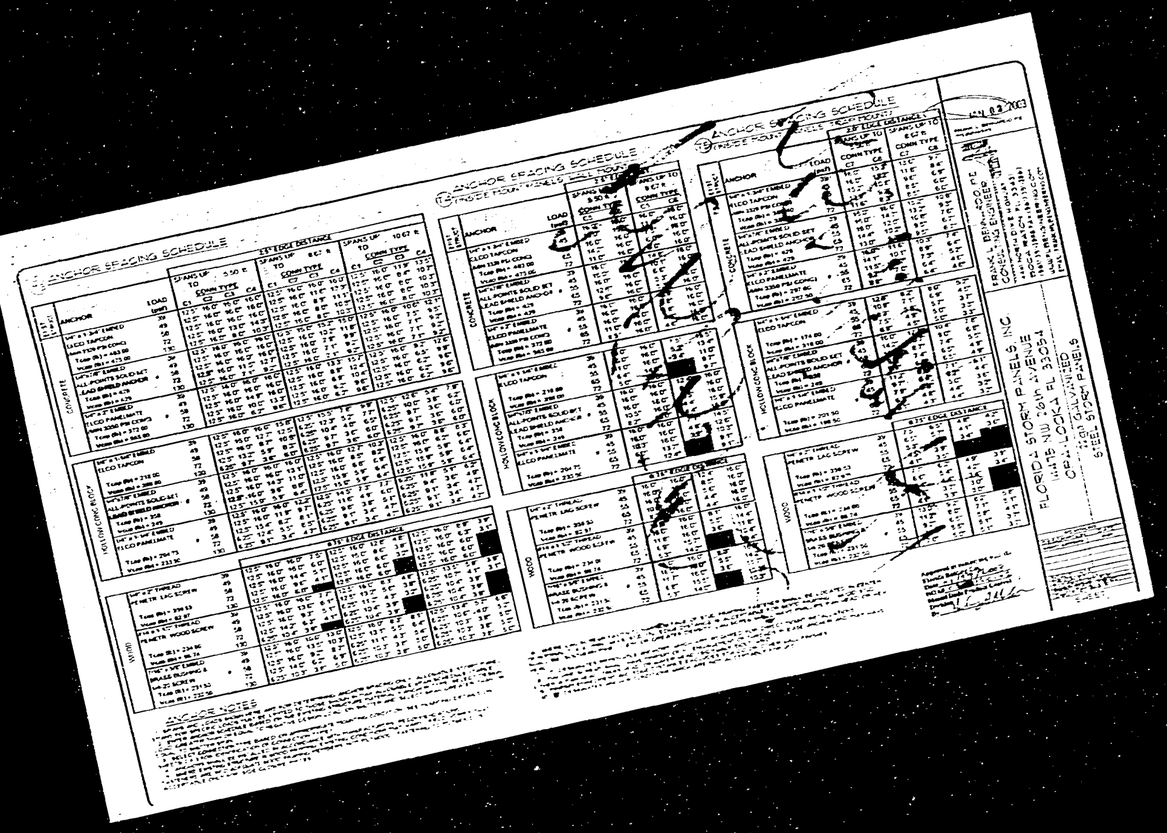
FLORIDA STORM PANELS INC.
11475 NW 76th AVENUE
OPA-LOCKA, FL 33054

25ga GALVANIZED
STEEL STORM PANELS

20


FLORIDA STORY PANELS INC.
1475 NW 16th AVENUE
OPA-LOCKA FL 33054
STEEL SIDING PANELS
TYPICAL INTERIOR WALL INSTALLATION DETAIL


FLORIDA STORY PANELS INC.
1475 NW 16th AVENUE
OPA-LOCKA FL 33054
STEEL SIDING PANELS


ANCHOR SPACING SCHEDULE
ANCHOR SPACING SCHEDULE
ANCHOR NOTES
FLORIDA STORY PANELS, INC
CRAWLSPACE
STEEL STORY PANELS

B0505926
1230 N. Peck Rd.

26

JM 9-17-13 B1305543 Eng Insp. Log 1/2
B1305543

F E G

Flaquer Engineering Group, LLC
6917 Narcoossee Rd., Suite 708
Orlando, Fl 32822
12741 s.w. 42 Street Suite #310
Miami Florida 33175
Email: flaquerengineering@gmail.com
(914)363-2457 . (914)755-5462 .
Fax 646-219-4380

Date: September 14, 2013

B1305543

To: Miami Beach
Building Department
1700 Convention Center Drive, 2nd Floor
Miami Beach, Fl. 33139
Construction Department

From: Pedro J. Flaquer, PE

Subject: 4230 Bay Road
Miami Beach, Florida 33139
Folio No.00-4240—3603-000-00
Owner: Mr. Julio Marrero

As Built Letter

Dear Sir/Madam:

A destructive Inspection was conducted on September 11, 2013, September 12, 2013 & September 13, 2013 respectively . These inspections were performed to determine the construction methodology used in the construction of a second floor addition at the above mentioned location.

1. **Truss System**: Pre- engineered trusses installed at 24" o.c with 2"x4" at 6'-0" o.c lateral bracing and 2"x4" wood piggy back trusses

2. **Columns**: New 8" concrete columns reinforced with 2#5 ribars at 6"o.c and 1#5 x12" long dowel embedded into existing concrete beams
3. **Slab**: was built of 4" concrete with 4#5 dowels x 24" embedded into existing concrete slab
4. **Tie Beams** : (2) 2" x 12" wood ledger attached to concrete w/3/4" diameter anchor 12" o.c.
5. **Framing**: 2" x 12" wood joist at 12" o.c and ¾" plywood subfloor fastened to the tie beams w/3/4" diam. Expansion anchors at 12' o.c .
6. Insulation: Installed, No R value readable
7. Dry wall: 5/8" gypsum Board on 2"x 4" wood stud at 16" o.c

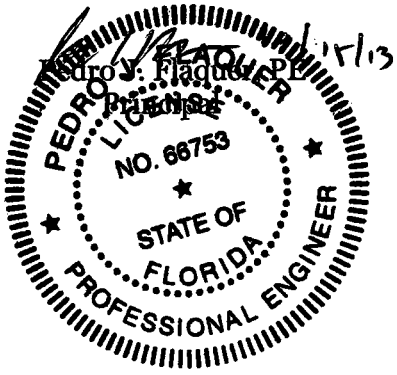
PEDRO FLAQUER LICENSE NO. 66753 STATE OF FLORIDA PROFESSIONAL ENGINEER

Conclusion:

The as built construction meets code and it is in compliance with approved plans and specifications.

Should you required additional information, feel free to contact me at (914)755-5462

Sincerely,



Pedro J. Flaquer, PE
Principal

12/13

MIAMIBEACH

Plan Routing Sheet

General Information		
Date 9/18/13	Process/Permit Number **Re-Submittals Only** B1306448	Historic (Y/N)
Job Address 9230 N. BAY RD		
Contact Name OMAR	E-mail OMARVIZCAINO@MC.COM	Telephone 786 547-3669

Re-submittals - New Sheets: ☑ **Yes** ☐ **No**

List all new sheets:

OFFICE USE ONLY

Required Approvals - As Indicated		
☐ Planning & Zoning	☐ Fire	☐ Public Works
☐ Flood Plain Management	☐ Building	☒ Structural
☐ Electrical	☐ Mechanical	☐ Plumbing
☐ Elevator		

Comments:

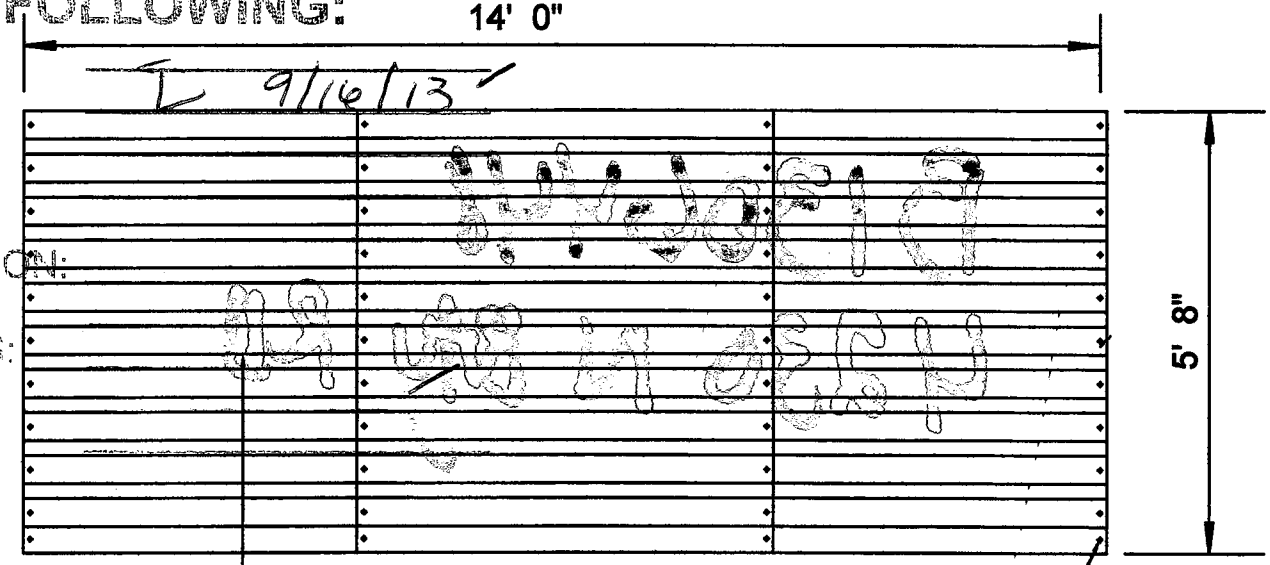
Reviewer: [signature] Date: 9/18/13

☒ **Walk Thru** ☐ **Drop Off**

B1306448

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

BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
FLOOD:
PUBLIC WORKS:
A 9/18/13



EXISTING CORRUGATED METAL WINDOW SHUTTER AT 2nd. FLOOR ADDITION TO BE PERMITTED

3/16" x 1½" FASTENER @ 6" O.C. 11 COUNT, TYP.

SHUTTER DETAIL ELEVATION

NOT TO SCALE

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 or results from these plans which are approved subject to compliance with all Federal, State, and Local Laws, Rules, and Regulations.

PEDRO J. FLAQUER
LICENSE
NO. 66753
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
9/16/13

Flaquer Engineering Group, LLC
P.E. 66753
(305)793-6466
(407)790-6466

Issue Date: 09-16-13

Mark	Date
REVISIONS	

HOUSE ADDITION
4230 BAY ROAD MIAMI BEACH, FLORIDA 33139

Title: WINDOW SHUTTER DETAIL ELEVATION
Job Number: P0555
Drawn: RAY B.
Checked:
Sheet No. A1.0

RECEIVED

BISHOP
4230 N BAY RD

08-13-13

CHB

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
• 11805 SW 26 Street, Room 208
• Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Florida Storm Panels, Inc.
14475 N.W. 26th Avenue
Opa-Locka, Florida 33054

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section 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 Miami-Dade County Product Control Section (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 immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 0.029" (min.) Galvanized Steel Storm Panels Shutter

APPROVAL DOCUMENT: Drawing No. AD12-32, titled " 22 ga. Galvanized Steel Storm Panel-LMI ", sheets 1 through 4 of 4, prepared by MCY Engineering, Inc., dated April 02, 2012, signed and sealed by Yiping Wang, P.E., on April 06, 2012, bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, 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, for 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 # 12-0410.01** and consists of this page 1, evidence submitted pages E-1 and E-2 as well as approval document mentioned above.
The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**

MIAMI-DADE COUNTY APPROVED

Helmy A. Makar
01/24/2013

NOA No. 12-1210.01
Expiration Date: 01/23/2018
Approval Date: 01/24/2013

Florida Storm Panels, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-1120.02

A. DRAWINGS

1. *Drawing No. 02-868-111, titled " 22 ga Galvanized Steel Storm Panels ", sheets 1 through 4 of 4, prepared by Frank L. Bennardo, P.E., dated November 18, 2002, last revision dated January 02, 2003, signed and sealed by Frank L. Bennardo, P.E.*

B. TESTS

1. *Test report on: Uniform Static Air Pressure Test, Large Missile Impact Test and Cyclic Wind Pressure Test prepared by Construction Testing Corporation, Report No. 02-041, dated November 18, 2002, signed and sealed by Yamil G. Kuri, P.E.*
2. *Test report on fastener by Construction Testing Corporation, Report No. 02-007A, dated May 06, 2002, signed and sealed by Yamil G. Kuri, P.E.*
3. *Test report on Wood Bushings by Construction Testing Corporation, Report No. 02-038, dated October 07, 2002, signed and sealed by Yamil G. Kuri, P.E.*

C. CALCULATIONS

1. *22 ga. Galvanized Steel Storm Panels and Anchor Calculations, sheets 1 through 26 of 26, dated November 18, 2002, prepared by Frank L. Bennardo, P.E., signed and sealed by Frank L. Bennardo, P.E.*
2. *Anchor Calculations, 9 pages, dated November 18, 2002, prepared by Frank L. Bennardo, P.E., signed and sealed by Frank L. Bennardo, P.E.*

D. MATERIAL CERTIFICATIONS

1. *Mill Certified Inspection Report.*
2. *Certified Tensile Test Report issued by Certified Testing Laboratory, Report Number 1098H, dated October 29, 2002, signed and sealed by Ramesh Patel, P.E.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 07-0817.03

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*

Henry A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 12-1210.01
Expiration Date: 01/23/2018
Approval Date: 01/24/2013

Florida Storm Panels, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-0410.01

A. DRAWINGS

1. *Drawing No. AD12-32, titled " 22 ga. Galvanized Steel Storm Panel-LMI ", sheets 1 through 4 of 4, prepared by MCY Engineering, Inc., dated April 02, 2012, signed and sealed by Yiping Wang, P.E., on April 06, 2012.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs (PERA).*

E. MATERIAL CERTIFICATIONS

1. *None.*

4. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

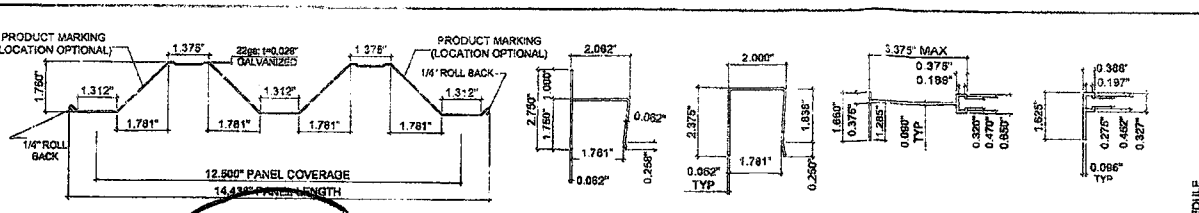
D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*

Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 12-1210.01
Expiration Date: 01/23/2018
Approval Date: 01/24/2013



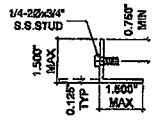
1 STORM PANEL.

2 "H" HEADER

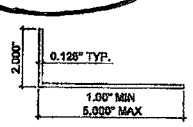
3 "U" HEADER

4 BUILD-OUT "F" TRACK

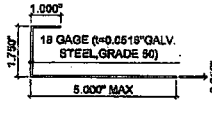
5 "F" TRACK



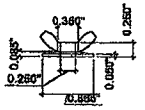
6 STUDDED ANGLE



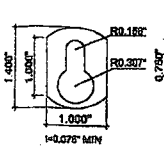
7 BULL DOUT/CLOSURE ANGLE



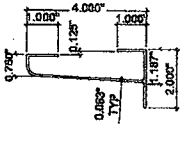
8 J-PAN CLOSURE



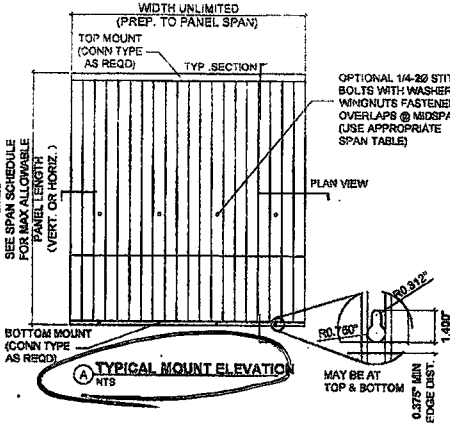
10 WASHERED WINGNUT (ZAMAC 5 ALLOY)



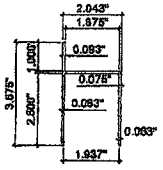
11 KEYHOLE WASHER GALV.STEEL GRADE 50(USE IS OPTIONAL,REQUIRED ONLY FOR USE WITH TRUSS HEAD ANCHORS GALK-IN)



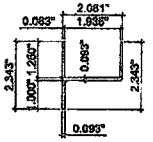
12 HEADER END CAP 1.750" DEEP TYPICAL



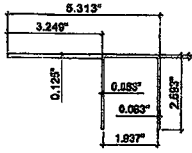
A TYPICAL MOUNT ELEVATION NTS



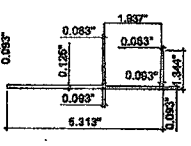
13 TOP "H" TRACK



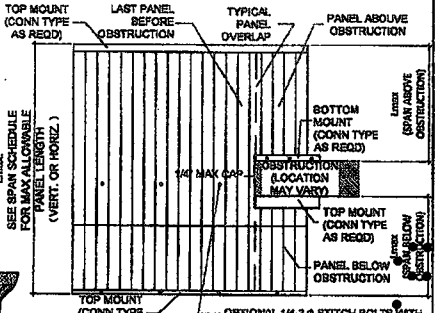
14 BOTTOM "H" TRACK



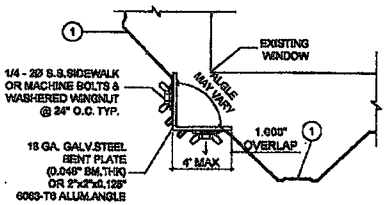
16 TOP "U" TRACK



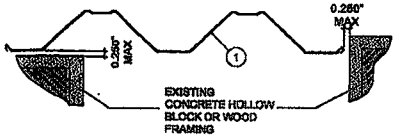
15 BOTTOM "U" TRACK



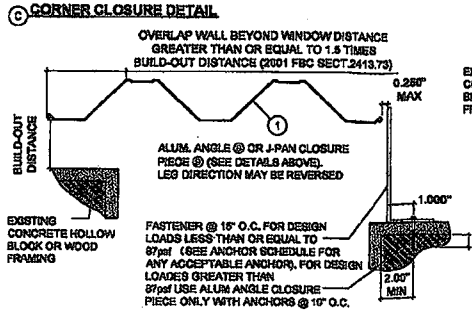
H TYPICAL MOUNT ELEVATION AROUND OBSTRUCTION NTS.



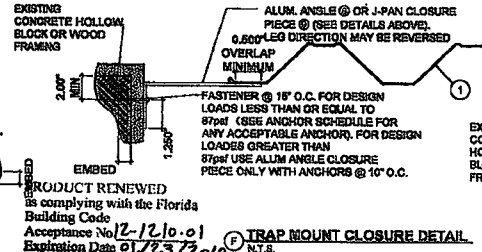
C CORNER CLOSURE DETAIL



D WALL MOUNT CLOSURE DETAIL N.T.S.



E BUILD-OUT MOUNT CLOSURE DETAIL N.T.S.



F TRAP MOUNT CLOSURE DETAIL N.T.S.

GENERAL NOTES:

1. THIS SHUTTER SYSTEM HAS BEEN DESIGNED AND TESTED AS A LARGE MISSILE IMPACT PROTECTIVE SYSTEM IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2010 AND PROTOCOLS TAS 201 FOR LARGE MISSILE IMPACT, TAS 202 FOR UNIFORM STATIC AIR PRESSURE AND TAS 203 FOR CYCLIC WIND LOADING.

2. NO 33.3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THE ANCHOR SPACING TABLES.

3. POSITIVE AND NEGATIVE DESIGN PRESSURES TO BE USED WITH THESE DRAWINGS SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE. WHEN ASCE 7-10 IS USED TO CALCULATE PRESSURES FOR USE WITH THIS PRODUCT, THE USE OF A DIRECTIONALITY FACTOR Kd=0.85 IS ALLOWED.

4. THE SHUTTER SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. IF SITE CONDITIONS DEVIATE FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS TO BE USED IN CONJUNCTION WITH THIS DOCUMENT.

5. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND ADDITIONAL IMPOSED LOADS.

6. STORM PANELS SHALL BE 22GA STEEL (GALVANIZED THICKNESS t=0.029" MIN) CONFORMING TO ASTM A653, STRUCTURAL QUALITY, GRADE 80,G90 GALV. COATING WITH A MIN. Fy=82.0 KSI. ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY.

7. PANELS SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE MARKING PER PANEL AS FOLLOWS:

FLORIDA STORM PANELS, INC
OPA-LOCKA, FLORIDA
MIAMI-DADE COUNTY PROD. CONTROL APPROVED

8. STORM PANELS HAVE BEEN DESIGNED AND TESTED TO THE MAXIMUM SPANS AND LOADS SHOWN ON THESE DRAWINGS. REFERENCE CONSTRUCTION TESTING CORPORATION (CTC), OF MIAMI, FL, TEST REPORT NO. 02-041.

9. TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FILED CONDITIONS DICTATE. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE, EXCEPT FOR MOUNTING CONDITIONS INCLUDING "H" OR "U" HEADERS.

10. ALL BOLTS & WASHERS SHALL BE ZINC COATED, GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 KSI

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 12-0410.01
Expiration Date 01/23/2013
By
Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 12-1210.01
Expiration Date 01/23/2018
By
Miami Dade Product Control

REVISIONS

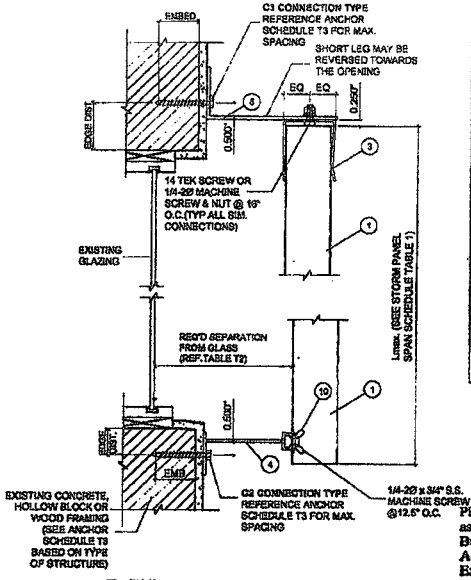
NO	DATE	DESCRIPTION

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
8501 SW 124 Ave. STE. 205A
MIAMI, FL. 33183
P: 305.271.0117
F: 786.573.5063
www.MCYEngineering.com MCY.Engineering@Att.net

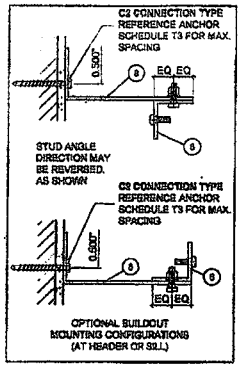
22 GA. GALVANIZED STEEL STORM PANEL - LMI
FLORIDA STORM PANELS, INC.
14476 N.W. 28TH AVE.
OPA LOCKA, FL. 33054
P: (305) 685 - 9000 F: (305) 685 - 7911

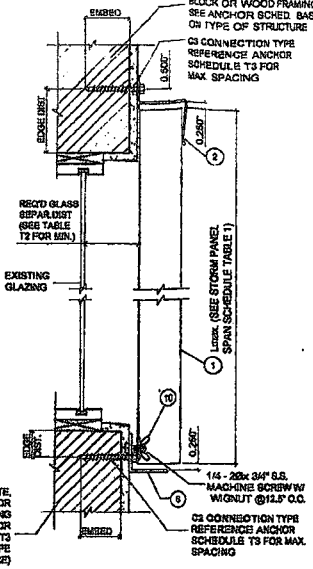
DATE	04-02-12
SCALE	AS NOTED
DRAWN	S.L.
PROJECT	MCY 12-070
DRAWING NO.	AD12-32
	1 OF 4

PRODUCT APPROVAL
PROFESSIONAL ENGINEER
STATE OF FLORIDA
YUNG KWANG, LIU
FLORIDA REGISTRATION
PE. #56983
C.A.#. 28677
APR 06 2012



G BUILD-OUT MOUNT SECTION
N.T.S.





H WALL MOUNT SECTION
N.T.S.

PRODUCT REVIEWED
as complying with the Florida Building Code
Acceptance No 12-1210.01
Expiration Date 01/23/2018
By
Miami Dade Product Control

T1 MAXIMUM ALLOWABLE SPAN SCHEDULE

LOAD W(PSF)	No Stitch Bolts LMAX(ft)	Stitch Bolts AT Midspan LMAX(ft)
25	10'-7"	10'-7"
30	10'-5"	10'-5"
35	10'-0"	10'-0"
39	9'-9"	9'-9"
40	9'-8"	9'-8"
45	9'-4"	9'-5"
49	9'-11"	9'-3"
50	8'-10"	9'-2"
55	8'-5"	8'-11"
58	8'-2"	8'-10"
60	8'-1"	8'-9"
65	7'-9"	8'-3"
70	7'-6"	7'-8"
72	7'-4"	7'-6"
75	7'-2"	7'-2"
80	6'-8"	6'-9"
60	6'-0"	6'-0"
100	5'-4"	5'-4"
110	4'-10"	4'-10"
120	4'-6"	4'-6"
130	4'-1"	4'-1"

T2 MINIMUM SEPARATION FROM GLASS SCHEDULE

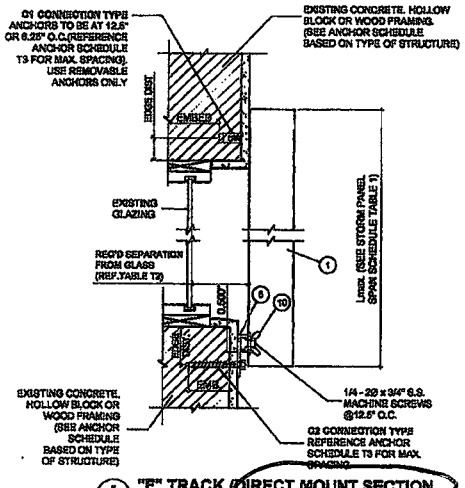
Positive Load (PSF)	Span Less Than:	Separation (inches) at<=30'	Separation (inches) at>30'
30	8'-0"	2.75"	1.22"
	8'-8"	2.75"	1.94"
	10'-5"	3.00"	3.00"
35	6'-0"	2.75"	1.25"
	8'-8"	2.75"	2.10"
	10'-0"	3.00"	3.00"
40	6'-0"	2.75"	1.29"
	8'-8"	2.75"	2.26"
	9'-8"	3.00"	3.00"
45	6'-0"	2.75"	1.32"
	8'-8"	2.75"	2.41"
	9'-4"	2.92"	2.92"
50	6'-0"	2.75"	1.36"
	8'-10"	2.75"	2.73"
60	6'-0"	2.75"	1.43"
	8'-1"	2.75"	2.44"
70	6'-0"	2.75"	1.51"
	7'-6"	2.75"	2.24"

SPAN SCHEDULE NOTES:

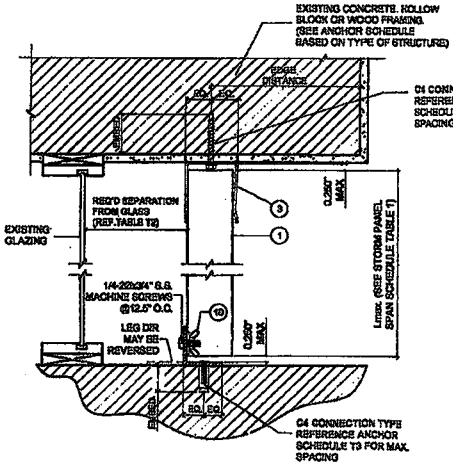
1.ENTER SPAN SCHEDULE WITH NEGATIVE DESIGN LOAD TO DETERMINE MAXIMUM ALLOWABLE STORM PANEL SPAN. SCHEDULE IS ACCEPTABLE FOR USE WITH POSITIVE LOADS LESS THAN OR EQUAL TO NEGATIVE DESIGN LOADS.
2.INTERPOLATION BETWEEN LOADS IS ACCEPTABLE. OTHERWISE USE NEXT HIGHER LOAD.

TABLE T2 NOTES:

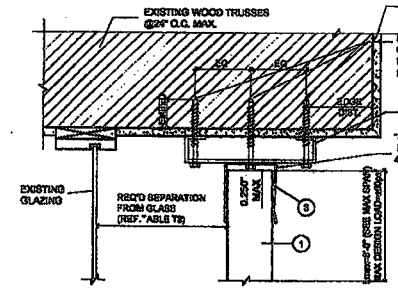
1.ENTER SPAN SCHEDULE WITH POSITIVE DESIGN LOAD TO DETERMINE MINIMUM ALLOWABLE STORM PANEL SEPARATION FROM GLASS OR DOOR TO BE PROTECTED. SCHEDULE IS REQUIRED FOR USE WITH POSITIVE LOADS ONLY.
2.INTERPOLATION BETWEEN LOADS IS ACCEPTABLE. OTHERWISE USE NEXT HIGHER LOAD.



I "F" TRACK DIRECT MOUNT SECTION
N.T.S.

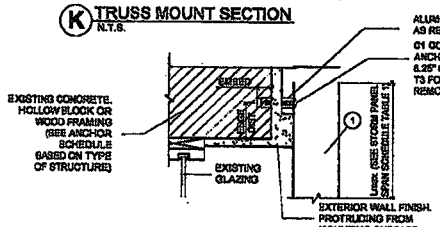


J CEILING/FLOOR MOUNT SECTION
N.T.S.



K TRUSS MOUNT SECTION
N.T.S.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 12-1210.01
Expiration Date 01/23/2018
By
Miami Dade Product Control



L OFFSET WALL MOUNT SECTION
N.T.S.

YIPING WANG LICENSE
YIPING WANG, P.E.
FLORIDA REGISTRATION
RE #55883
C.A.N. 28877
STATE OF FLORIDA
PROFESSIONAL ENGINEER
APR 06 2012

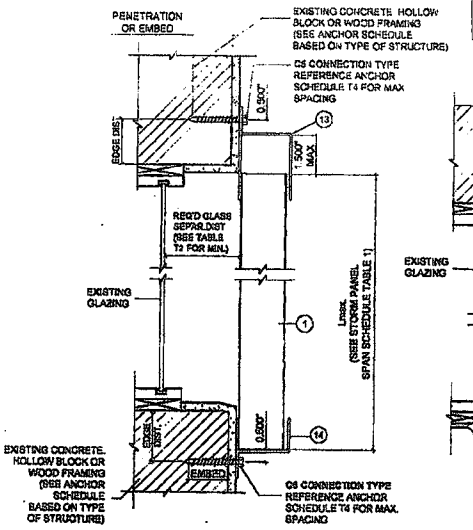
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
9501 SW 124 Ave. STE. 206A
MIAMI, FL 33183
P: 305.271.0117
F: 786.573.5063
www.MCYEngineering.com
MCY.Engineering@att.net

NO	DATE	REVISIONS DESCRIPTION

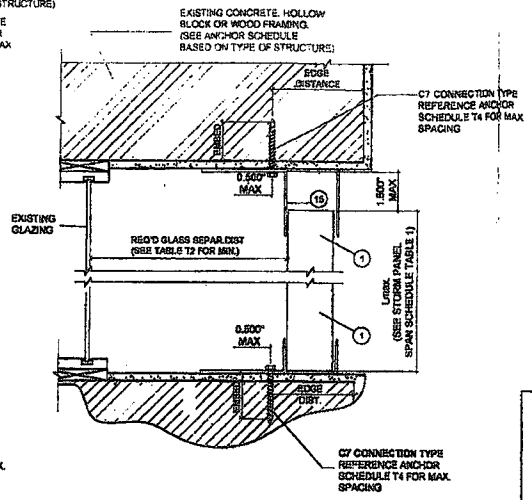
22 GA GALVANIZED STEEL STORM PANEL - LMI
FLORIDA STORM PANELS, INC.
14476 N.W. 29TH AVE.
OPA LOCKA, FL. 33054
P: (305) 685 - 8000 F: (305) 685 - 7611

DATE	04-02-12
SCALE	AS NOTED
DRAWN	S.L.
PROJECT	MCY 12-078
DRAWING NO.	AD12-30
	2 OF 4

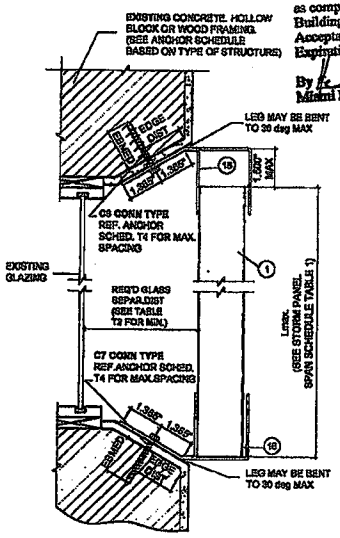
OPTIONAL INTERIOR MOUNT INSTALLATION DETAILS



M WALL MOUNT SECTION
WALL MOUNT TRACKS N.T.S.

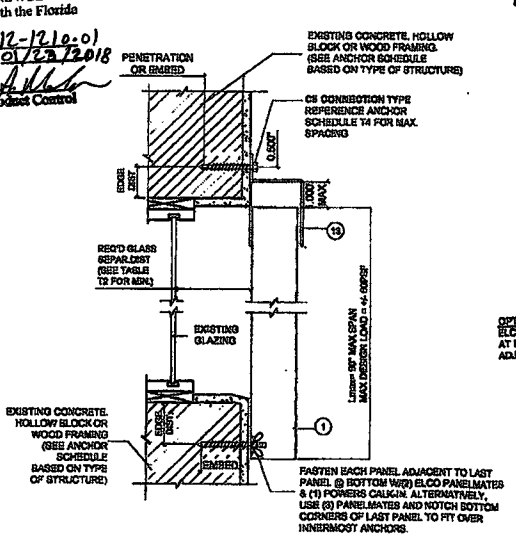


N CEILING/FLOOR MOUNT SECTION
NTS



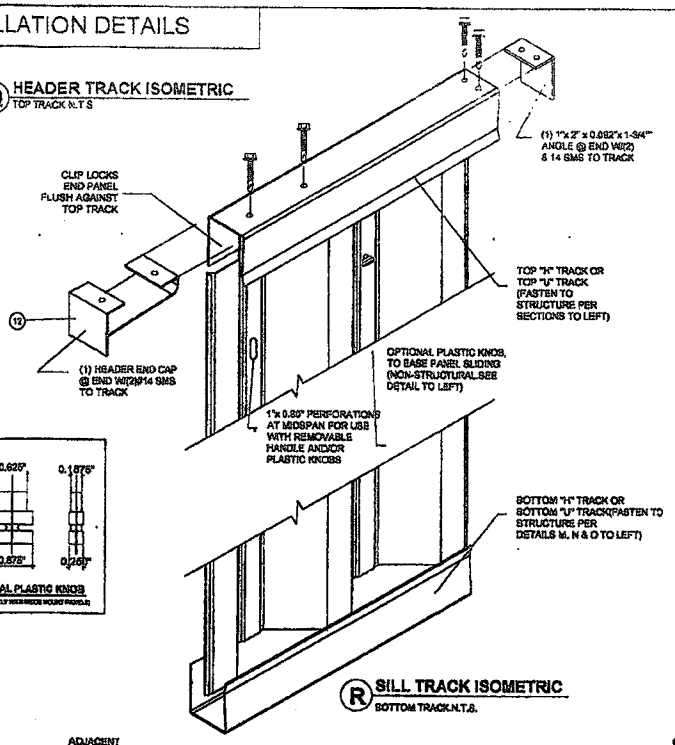
O HEADER/SILL MOUNT SECTION
TRAP MOUNT TRACKS ON ANGLE N.T.S.

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 12-1210.01
Expiration Date 01/23/2018
By
Miami Dade Product Control

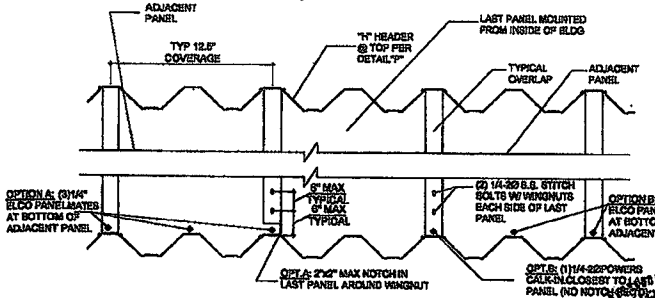


P DIRECT WALL MOUNT SECTION
BOTTOM DIRECT WALL MOUNT
(REF .DETAIL"S").N.T.S.

Q HEADER TRACK ISOMETRIC
TOP TRACK N.T.S



R SILL TRACK ISOMETRIC
BOTTOM TRACK N.T.S.



S DIRECT WALL MOUNT EXTERIOR ELEVATION
BOTTOM DIRECT WALL MOUNT
(REF .DETAIL "P").N.T.S.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 12-0410.01
Expiration Date 01/23/2013
By
Miami Dade Product Control

YIPING WANG LICENSED PROFESSIONAL ENGINEER
YIPING WANG P.E.
FLORIDA REGISTRATION
PE #55983
C.A.# 28677
STATE OF FLORIDA
APR 06 2012

REVISIONS	
NO	DATE / DESCRIPTION

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
8501 SW 124 Ave. STE. 205A
MIAMI, FL. 33183
P: 305.271.0117
F: 786.573.5063
www.MCYEngineering.com
MCY.Engineering@att.net

26 GA. GALVANIZED STEEL STORM PANEL - LMI
FLORIDA STORM PANELS, INC.
14476 N.W. 26TH AVE.
OPA LOCKA, FL 33054
P: (305) 685 - 9000 F: (305) 685 - 7511

DRWN	04-02-12
CHKD	#3 REVISED
SCALE	N.T.S.
PROJECT	MAY 12-079
DRAWING No.	AD12-30
	3 OF 4

T3 ANCHOR SPACING SCHEDULE

EXIST STRUCT.	ANCHOR	LOAD (psf)	2.5" EDGE DISTANCE: SPANS UP TO 5.50ft CONN TYPE C1	C2	C3	C4	SPANS UP TO 8.67ft CONN TYPE C1	C2	C3	C4	SPANS UP TO 10.67ft CONN TYPE C1	C2	C3	C4
CONCRETE	1/4" x1-3/4" EMBED	39	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	11.9"	13.5"
	ELCO TAPCON	46	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	11.6"	13.3"	12.5"	16.0"	8.4"	10.7"
	(MIN 3320 PSI CONC)	56	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	8.5"	11.1"	12.5"	16.0"	8.0"	10.3"
	Tcap(lb) = 483.00	72	12.5"	16.0"	13.0"	14.3"	12.5"	16.0"	8.0"	10.3"	12.5"	16.0"	8.0"	10.3"
	Vcap(lb) = 475.00	130	12.5"	16.0"	8.0"	10.3"	12.5"	16.0"	8.0"	10.3"	12.5"	16.0"	8.0"	10.3"
	1/4" x1-7/8" EMBED	39	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	15.2"	15.0"	12.5"	16.0"	10.6"	12.1"
	ALL-POINTS SOLID-SET	49	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	10.2"	11.6"	12.5"	16.0"	7.6"	9.6"
	LEAD SHIELD ANCHOR *	56	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	7.6"	9.6"	12.5"	16.0"	7.1"	9.2"
	Tcap(lb) = 428	72	12.5"	16.0"	11.5"	12.7"	12.5"	16.0"	7.1"	9.2"	12.5"	16.0"	7.1"	9.2"
	Vcap(lb) = 428	130	12.5"	16.0"	7.1"	9.2"	12.5"	16.0"	7.1"	9.2"	12.5"	16.0"	7.1"	9.2"
	1/4" x1-2" EMBED	39	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	13.3"	15.7"	12.5"	16.0"	9.2"	12.8"
	ELCO PANELMATE	46	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	8.5"	12.4"	12.5"	16.0"	8.5"	9.5"
	(MIN 3350 PSI CONC) *	56	12.5"	16.0"	14.8"	16.0"	12.5"	16.0"	6.9"	10.4"	12.5"	16.0"	6.2"	8.6"
	Tcap(lb) = 372.00	72	12.5"	16.0"	10.0"	13.3"	12.5"	16.0"	6.2"	9.6"	12.5"	16.0"	6.2"	8.6"
	Vcap(lb) = 595.00	130	12.5"	16.0"	6.2"	9.6"	12.5"	16.0"	6.2"	9.6"	12.5"	16.0"	6.2"	8.6"
HOLLOW CONC BLOCK	1/4" x1-1/4" EMBED	39	12.5"	16.0"	16.0"	16.6"	12.5"	16.5"	7.6"	8.6"	12.5"	12.5"	8.4"	7.8"
	ELCO TAPCON	49	12.5"	16.0"	12.7"	12.5"	6.25"	12.3"	5.2"	7.7"	6.25"	10.0"	3.8"	6.2"
		56	12.5"	16.0"	8.7"	10.5"	6.25"	10.4"	4.0"	6.5"	6.25"	8.7"	3.6"	6.0"
	Tcap(lb) = 216.00	72	12.5"	13.2"	5.6"	8.3"	6.25"	8.7"	3.6"	6.0"	6.25"	8.7"	3.6"	6.0"
	Vcap(lb) = 398.00	130	6.25"	8.7"	3.6"	6.0"	6.25"	8.7"	3.6"	6.0"	6.25"	8.7"	3.6"	6.0"
	1/4" x1-7/8" EMBED	39	12.5"	16.0"	16.0"	16.0"	12.5"	16.0"	12.7"	10.3"	12.5"	16.0"	8.6"	8.3"
	ALL-POINTS SOLID-SET	49	12.5"	16.0"	16.0"	13.1"	12.5"	16.0"	8.5"	8.2"	12.5"	16.0"	6.2"	6.6"
	LEAD SHIELD ANCHOR *	56	12.5"	16.0"	14.3"	11.0"	12.5"	16.0"	6.6"	6.9"	12.5"	15.5"	5.9"	6.4"
	Tcap(lb) = 359	72	12.5"	16.0"	9.6"	8.6"	12.5"	15.6"	5.9"	6.4"	12.5"	15.5"	5.9"	6.4"
	Vcap(lb) = 249	130	12.5"	15.9"	5.6"	6.4"	12.5"	15.6"	5.9"	6.4"	12.5"	15.5"	5.9"	6.4"
	1/4" x1-1/4" EMBED	39	12.5"	16.0"	16.0"	12.2"	12.5"	14.5"	7.3"	7.7"	6.25"	11.5"	5.1"	6.2"
	ELCO PANELMATE	49	12.5"	16.0"	11.5"	9.7"	6.25"	11.5"	4.9"	6.0"	6.25"	9.4"	3.6"	4.9"
	*	56	12.5"	15.4"	8.2"	8.1"	6.25"	8.6"	3.8"	6.1"	6.25"	9.1"	3.4"	4.7"
	Tcap(lb) = 204.75	72	6.25"	12.4"	5.5"	6.6"	6.25"	9.1"	3.4"	4.7"	6.25"	9.1"	3.4"	4.7"
	Vcap(lb) = 233.50	130	6.25"	9.1"	3.4"	4.7"	6.25"	9.1"	3.4"	4.7"	6.25"	9.1"	3.4"	4.7"
WOOD	1/4" x 2" THREAD	39	12.5"	16.0"	16.0"	7.5"	12.5"	16.0"	12.8"	4.5"	12.5"	16.0"	6.5"	3.5"
	PENETR.LAG SCREW	49	12.5"	16.0"	16.0"	6.0"	12.5"	16.0"	8.6"	3.5"	12.5"	16.0"	6.3"	3.1"
		56	12.5"	16.0"	14.4"	5.1"	12.5"	16.0"	8.6"	3.2"	12.5"	16.0"	6.0"	
	Tcap(lb) = 359.53	72	12.5"	16.0"	9.6"	4.1"	12.5"	16.0"	6.0"		12.5"	16.0"	6.0"	
	Vcap(lb) = 82.97	130	12.5"	16.0"	6.0"		12.5"	16.0"	6.0"		12.5"	16.0"	6.0"	
	#14 x 1-1/2" THREAD	39	12.5"	16.0"	16.0"	7.7"	12.5"	16.0"	8.3"	4.8"	12.5"	13.5"	5.8"	3.9"
	PENETR.WOOD SCREW	49	12.5"	16.0"	13.6"	5.1"	12.5"	13.2"	5.6"	3.6"	6.25"	10.7"	4.1"	3.1"
		56	12.5"	16.0"	9.3"	5.1"	6.25"	11.2"	4.3"	3.2"	6.25"	10.4"	3.9"	
	Tcap(lb) = 234.00	72	12.5"	14.2"	6.3"	4.1"	6.25"	10.4"	3.6"		6.25"	10.4"	3.9"	
	Vcap(lb) = 98.74	130	6.25"	10.4"	3.6"		6.25"	10.4"	3.6"		6.25"	10.4"	3.9"	
	7/16" x 5/8" EMBED	39	12.5"	16.0"	16.0"	13.0"	12.5"	16.0"	8.3"	8.1"	12.5"	13.4"	5.7"	6.6"
	BRASS BUSHING &	49	12.5"	16.0"	13.5"	10.3"	12.5"	13.1"	5.6"	6.4"	6.25"	10.9"	4.0"	5.2"
	1/4-20 SCREW *	56	12.5"	16.0"	9.2"	8.7"	6.25"	11.1"	4.3"	5.4"	6.25"	10.3"	3.8"	5.0"
	Tcap(lb) = 231.50	72	12.5"	14.0"	6.2"	6.5"	6.25"	10.3"	3.6"	5.0"	6.25"	10.3"	3.6"	5.0"
	Vcap(lb) = 232.50	130	6.25"	10.3"	3.6"	5.0"	6.25"	10.3"	3.6"	5.0"	6.25"	10.3"	3.6"	5.0"

T4 ANCHOR SPACING SCHEDULE

(INSIDE MOUNT PANELS. WALL MOUNT)

EXIST STRUCT.	ANCHOR	LOAD (psf)	2.5" EDGE DISTANCE: SPANS UP TO 5.50ft CONN TYPE C5	C6	SPANS UP TO 8.67ft CONN TYPE C5	C6
CONCRETE	1/4" x1-3/4" EMBED	39	16.0"	16.0"	16.0"	16.0"
	ELCO TAPCON	46	16.0"	16.0"	11.4"	16.0"
	(MIN 3320PSI CONC)	56	16.0"	16.0"	7.5"	16.0"
	Tcap(lb) = 483.00	66	14.2"	16.0"	8.0"	16.0"
	Vcap(lb) = 475.00	72	11.0"	16.0"	8.0"	16.0"
	1/4" x1-7/8" EMBED	39	16.0"	16.0"	14.6"	16.0"
	ALL-POINTS SOLID-SET	46	16.0"	16.0"	10.1"	16.0"
	LEAD SHIELD ANCHOR *	55	16.0"	16.0"	8.5"	16.0"
	Tcap(lb) = 428.00	65	12.6"	16.0"	8.3"	16.0"
	Vcap(lb) = 428.00	72	9.8"	16.0"	8.3"	16.0"
	1/4" x1-2" EMBED	39	16.0"	16.0"	12.9"	16.0"
	ELCO PANELMATE	45	16.0"	16.0"	8.5"	16.0"
	(MIN 3350 PSI CONC) *	55	16.0"	16.0"	6.9"	16.0"
	Tcap(lb) = 372.00	65	11.0"	16.0"	6.9"	16.0"
	Vcap(lb) = 595.00	72	8.5"	16.0"	6.9"	16.0"
HOLLOW CONC BLOCK	1/4" x1-1/4" EMBED	39	16.0"	16.0"	7.5"	16.6"
	ELCO TAPCON	49	16.0"	16.0"	5.2"	13.4"
		56	11.0"	16.0"	3.4"	11.0"
	Tcap(lb) = 216.00	72	8.4"	14.6"	[redacted]	8.7"
	Vcap(lb) = 398.00	130	5.0"	13.2"	[redacted]	8.7"
	1/4" x1-7/8" EMBED	39	16.0"	16.0"	12.6"	16.0"
	ALL-POINTS SOLID-SET	49	16.0"	16.0"	8.5"	16.0"
	LEAD SHIELD ANCHOR *	56	16.0"	16.0"	5.6"	16.0"
	Tcap(lb) = 359.00	72	10.5"	16.0"	4.4"	16.9"
	Vcap(lb) = 249.00	130	8.2"	16.0"	4.4"	16.9"
	1/4" x1-1/4" EMBED	39	16.0"	16.0"	7.1"	14.6"
	ELCO PANELMATE	49	16.0"	16.0"	4.8"	12.6"
	*	56	16.0"	16.0"	3.2"	10.5"
	Tcap(lb) = 204.75	72	8.0"	13.7"	[redacted]	9.1"
	Vcap(lb) = 233.50	130	4.7"	12.4"	[redacted]	9.1"
WOOD	1/4" x 2" THREAD	39	16.0"	16.0"	12.4"	16.0"
	PENETR.LAG SCREW	46	16.0"	16.0"	8.5"	16.0"
		55	16.0"	16.0"	5.6"	16.0"
	Tcap(lb) = 359.53	66	10.6"	16.0"	4.4"	16.0"
	Vcap(lb) = 82.97	72	8.2"	16.0"	4.4"	16.0"
	#14 x 1-1/2" THREAD	39	16.0"	16.0"	8.1"	16.0"
	PENETR.WOOD SCREW	46	16.0"	16.0"	5.5"	14.4"
		55	11.5"	16.0"	3.6"	11.8"
	Tcap(lb) = 234.00	66	8.5"	15.7"	[redacted]	10.4"
	Vcap(lb) = 98.74	72	6.3"	14.2"	[redacted]	10.4"
	7/16" x 5/8" EMBED	39	16.0"	16.0"	9.0"	16.0"
	BRASS BUSHING &	46	16.0"	16.0"	5.6"	14.2"
	1/4-20 SCREW *	55	11.7"	16.0"	3.6"	11.7"
	Tcap(lb) = 231.50	66	8.5"	15.5"	[redacted]	10.3"
	Vcap(lb) = 232.50	72	8.5"	14.0"	[redacted]	10.3"

T5 ANCHOR SPACING SCHEDULE

(INSIDE MOUNT PANELS. TRAP MOUNT)

EXIST STRUCT.	ANCHOR	LOAD (psf)	2.0" EDGE DISTANCE: SPANS UP TO 5.50ft CONN TYPE C7	C8	SPANS UP TO 8.67ft CONN TYPE C7	C8
CONCRETE	1/4" x1-3/4" EMBED	39	16.0"	15.3"	13.6"	9.7"
	ELCO TAPCON	46	16.0"	13.2"	11.8"	8.4"
	(MIN 3320PSI CONC)	56	15.2"	10.6"	9.6"	6.6"
	Tcap(lb) = 388.40	66	12.9"	9.2"	8.5"	6.0"
	Vcap(lb) = 380.00	72	11.6"	8.3"	8.6"	6.0"
	1/4" x1-7/8" EMBED	39	16.0"	16.0"	15.2"	10.8"
	ALL-POINTS SOLID-SET	46	16.0"	14.7"	13.2"	9.3"
	LEAD SHIELD ANCHOR *	55	16.0"	12.0"	10.8"	7.6"
	Tcap(lb) = 428.00	66	14.4"	10.2"	9.5"	6.7"
	Vcap(lb) = 428.00	72	13.0"	9.2"	9.5"	6.7"
	1/4" x1-2" EMBED	39	16.0"	11.8"	10.3"	7.4"
	ELCO PANELMATE	46	14.1"	10.1"	8.5"	6.4"
	(MIN 3350 PSI CONC) *	56	11.6"	8.2"	7.3"	5.2"
	Tcap(lb) = 297.60	66	9.7"	7.0"	6.4"	4.6"
	Vcap(lb) = 292.50	72	8.6"	8.3"	6.4"	4.6"
HOLLOW CONC BLOCK	1/4" x1-1/4" EMBED	39	12.5"	8.2"	8.0"	5.2"
	ELCO TAPCON	49	10.5"	7.1"	6.9"	4.5"
		56	8.5"	6.8"	5.7"	3.7"
	Tcap(lb) =174.00	72	7.5"	4.8"	5.0"	3.3"
	Vcap(lb) = 348.00	130	6.6"	4.8"	5.0"	3.3"
	1/4" x1-7/8" EMBED	39	16.0"	12.3"	10.4"	7.5"
	ALL-POINTS SOLID-SET	49	14.2"	10.7"	9.0"	6.6"
	LEAD SHIELD ANCHOR *	56	11.7"	8.7"	7.4"	5.5"
	Tcap(lb) = 359.00	72	9.6"	7.4"	6.5"	4.6"
	Vcap(lb) = 249.00	130	6.6"	6.7"	6.5"	4.6"
	1/4" x1-1/4" EMBED	39	11.2"	8.0"	7.1"	5.1"
	ELCO PANELMATE	49	9.7"	6.9"	6.2"	4.4"
	*	56	7.5"	5.5"	5.0"	3.6"
	Tcap(lb) = 201.50	72	6.7"	4.8"	4.4"	3.2"
	Vcap(lb) = 193.50	139	6.1"	4.3"	4.4"	3.2"
WOOD	1/4" x 2" THREAD	39	7.5"	8.5"	4.6"	4.2"
	PENETR.LAG SCREW	45	6.5"	5.7"	4.1"	3.6"
		55	5.3"	4.6"	3.4"	
	Tcap(lb) = 359.53	66	4.5"	3.9"		
	Vcap(lb) = 82.97	72	4.1"	3.5"		
	#14 x 1-1/2" THREAD	39	7.7"	6.2"	4.6"	3.5"
	PENETR.WOOD SCREW	45	6.5"	5.4"	4.2"	3.4"
		55	5.4"	4.4"	3.4"	
	Tcap(lb) = 234.00	66	4.8"	3.7"	3.0"	
	Vcap(lb) = 98.74	72	4.1"	3.3"	3.0"	
	7/16" x 5/8" EMBED	39	13.0"	8.2"	8.2"	5.8"
	BRASS BUSHING &	45	11.2"	8.0"	7.1"	5.1"
	1/4-20 SCREW *	55	9.2"	6.5"	5.8"	4.1"
	Tcap(lb) = 231.50	66	7.5"	5.5"	5.1"	3.7"
	Vcap(lb) = 232.50	72	7.0"	5.0"	5.1"	3.7"

ANCHOR NOTES:

1. SPANS AND LOADS SHOWN HERE ARE FOR DETERMINING ANCHOR SPACING ONLY. ALLOWABLE STORM PANEL SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO THOSE SHOWN IN MAX ALLOWABLE SPAN SCHEDULE (TABLE "T1").
2. ENTER ANCHOR SCHEDULE BASED ON THE EXISTING STRUCTURE MATERIAL & ANCHOR TYPE. SELECT DESIGN LOAD GREATER THAN OR EQUAL TO NEGATIVE DESIGN LOAD ON SHUTTER AND SELECT SPAN GREATER THAN OR EQUAL TO SHUTTER SPAN.
3. SELECT CONNECTION TYPE BASED ON APPROPRIATE MOUNTING CONDITION (SEE MOUNTING DETAILS ON SHEETS 2 & 3 FOR IDENTIFICATION OF CONNECTION TYPE).
4. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
5. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT PLYWOOD. FASTENING TO PLYWOOD IS ACCEPTABLE ONLY FOR SIDE CLOSURE PIECES.
6. WHERE LAG SCREWS FASTEN TO NARROW FACE OF STUD FRAMING, FASTENER SHALL BE LOCATED IN CENTER OF NOMINAL 2" x 4" (MIN) WOOD STUD (3/4" EDGE DISTANCE IS ACCEPTABLE FOR WOOD FRAMING). WOOD STUD SHALL BE SOUTHERN PINE, G=0.55 OR GREATER DENSITY. LAG SCREW SHALL HAVE PHILLIPS PAN HEAD OR HEX HEAD.
7. * DESIGNATED REMOVABLE ANCHORS, WHICH ARE REQUIRED FOR DIRECT MOUNT INSTALLATIONS.
8. MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD (SIDEWALK BOLT).
9. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO OR OTHER WALL FINISHES.
10. DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE FOR USE.

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No 12-1210.01 Expiration Date 01/23/2018 By Miami Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 12-0410.01 Expiration Date 01/23/2018 By Miami Dade Product Control

YIPING WANG LICENSE PROFESSIONAL ENGINEER STATE OF FLORIDA YIPING WANG, P.E. FLORIDA REGISTRATION PE #55983 C.A.R. 28877

APR 06 2012

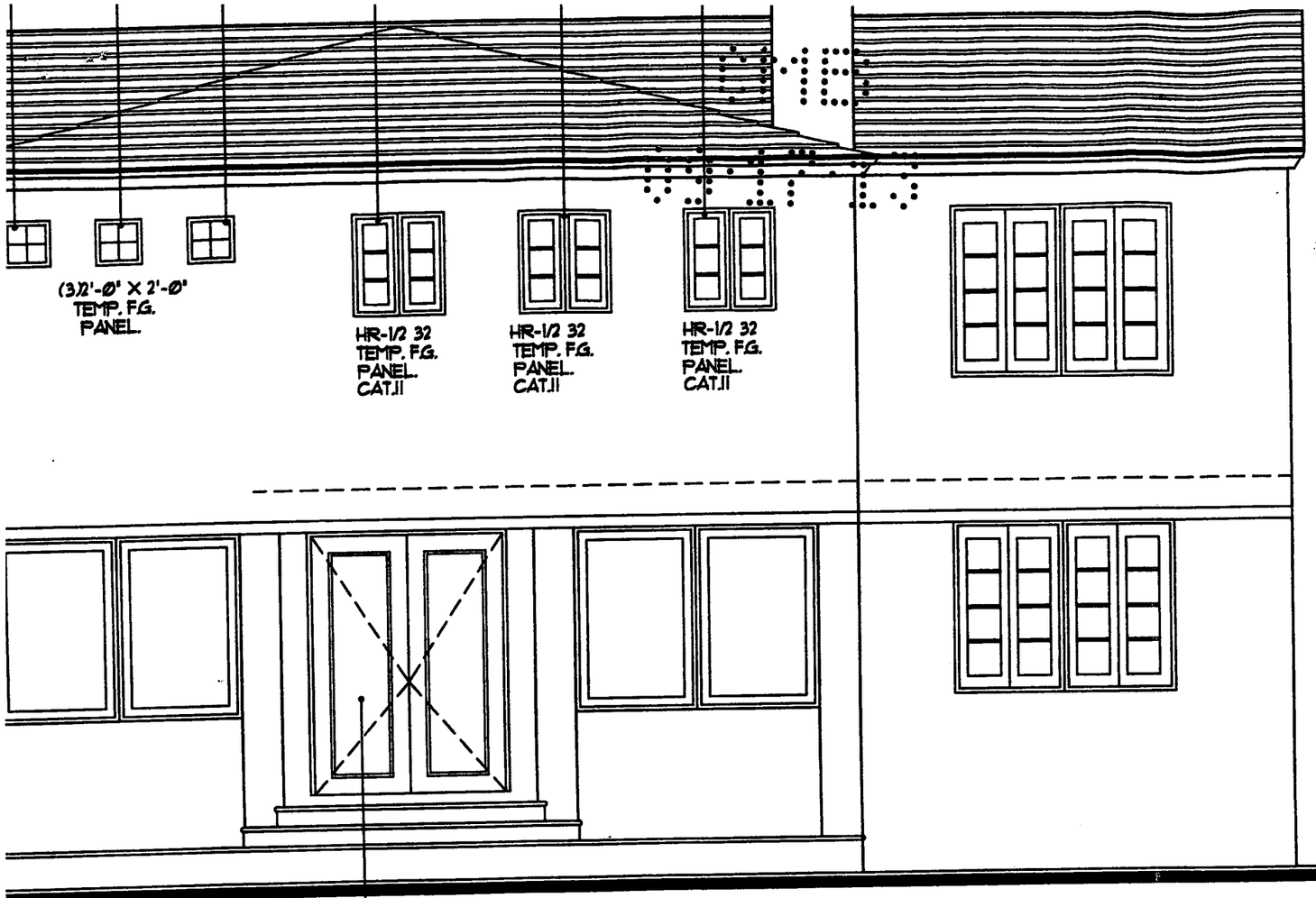
REVISIONS

NO	DATE	DESCRIPTION

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
8501 SW 124 Ave. STE. 205J. MIAMI, FL 33183
P: 305.271.0117
F: 786.573.5063
www.MCYEngineering.com MCY.Engineering@Att.net

22 GA. GALVANIZED STEEL STORM PANEL - LMI
FLORIDA STORM PANELS, INC.
14475 N.W. 25TH AVE. OPA LOCKA, FL 33054
P: (305) 685 - 6000 F: (305) 685 - 7511

DATE	04-02-12
SCALE	AS NOTED
DRAWN BY	S.L.
PROJECT	MAY 12-073
DRAWING NO.	AD12-30
	4 OF 4



REAR ELEVATION 1/4"

As per Florida Build
REVIEWED FOR

CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE BOARD/COMM.
Michele Ashuf 7/22/02

7/9/2
03/07/152

CITY OF MIAMI BEACH
REFERENCE
ONLY

EXTE

M

SEAL

REVISIONS :
1-
2-
3-
4-

DATE : MONTSE-OCT.2001
SCALE : SHOWN
DRAWN : O.F.
JOB NO. : 2001-MONTSE

A-4

SHEET NO. : 2 OF 20

BATH

WC

LAV.

BEDROOM-2

3/4" COLD & HOT WATER LINE FROM 1ST FLOOR EXIST WATER HTR

3" DN TO 1ST FLOOR (10FU) CONNECT TO EXIST SEWER

HEATER

WC

3/4"

3/4"

1/2"

3"

3"(10FU)

3"(9FU)

WC

TOILET

BD

KATIE W.I.C.

1/2"

2"(FU)

MASTER BATH

2"VTR

2"VTR

HEATER

LINEN

LAV

2"(3FU)

MAKE-UP

WH

2"

2"VTR

mirror

NOTE:

ALL DRAIN PIPING UNDER SLAB SHALL BE 2" MIN.

2" ø LESS DIA. DRAIN @ 1/4" DROP.

3" ø 4" LESS DIA. DRAIN @ 1/8" DROP.

SECOND FLOOR PLAN

SCALE:1/4"=1'-0"

PLUMBING FIXTURESCHEDULE

FIXTURE TYPE	TRAP SIZE	C.W.	H.W.	DESCRIPTION
WATER CLOSET	3"	1/2"	-	
LAVATORY	1 1/2"	1/2"	1/2"	
BATH TUB	2"	1/2"	1/2"	W/ ANTI-SCALD VALVES