9740

Owner CARLOS GIL JR.
Lot 12 **Block** 3 **Subdivision** SAN MARINO
General Contractor Owner
Architect CARLOS A MARTI
Zoning Regulations: **Use** RS-4 **Area**
Building Size: **Front** 53' 8" **Depth**
Certificate of Occupancy No.
Type of Construction Typ. III protected **Foundation** concrete piles **Roof** decl. truss oven wood cement tile

Permit No. 90596 **Cost** $175,000.00
Single family Home
6-Bedrooms
5- Baths
Address 409 E. San Marino Dr.
Bond No.
Engineer Fernando Gomez Pina
Lot Size 47.5' X 100' X 175' irregular
Height 30 ft. **Stories** 2
Use RS-4
Date March 4, 1982

PLUMBING Contractor Group I **Sewer Connection** **Date**

Temporary Water Closet

Water Closets
Lavatories
Bath Tubs
Showers
Urinals
Sinks
Dish Washing Machine
Laundry Trays
Laundry Washing Machines
Drinking Fountains
Floor Drains
Grease Traps
Safe Wastes
AIR CONDITIONING Contractor
SEPTIC TANK Contractor
OIL BURNER Contractor
SPRINKLER Contractor

Swimming Pool Traps
Steam or Hot Water Boilers
ROUGH APPROVAL
FINAL APPROVAL

Down Spouts
Wells

GAS Contractor **Date**
Gas Ranges
Gas Water Heaters
Gas Space Heaters
Gas Refrigerators
Gas Steam Tables
Gas Broilers
Gas Frylators
Gas Pressing Machine
Gas Vents for Stove

GAS Rough APPROVAL
GAS FINAL APPROVAL

ELECTRICAL Contractor **Date**

OUTLETS: Switches, Lights, Receptacles
HEATERS: Water, Space
FIXTURES

Ranges
Irons
Refrigerators
Fans
Motors
Appliances

Electrical Contractor **Date**

Temporary Service
Neon Transformers
Sign Outlets
Meter Change
Centers of Distributions
Service
Violations

FINAL APPROVAL **By** **Date**

Building Permits: #90607 3/24/82 Jet Pool Corp - swimming pool and deck $7,000.

#MO_5882--Norco A/C & Refrig.-- Install 3 CAC 3 TonA/C, heating & cooling with 10KW strip heater--8/17/82

#22813 9/22/82 Biscayne Roofing Co - ~~xx~~roof 56 sq. $20,000. new const.

ELECTRIC PERMITS: #77987 5/25/82 Omni Elect - 37 switch outlets, 81 light outlets, 73 receptacles, 400 service size in amps, 6 appliance outlets, 1 ragne top, 1 oven, 2 water heater, 1 motor 0-1 hp 3 air cond

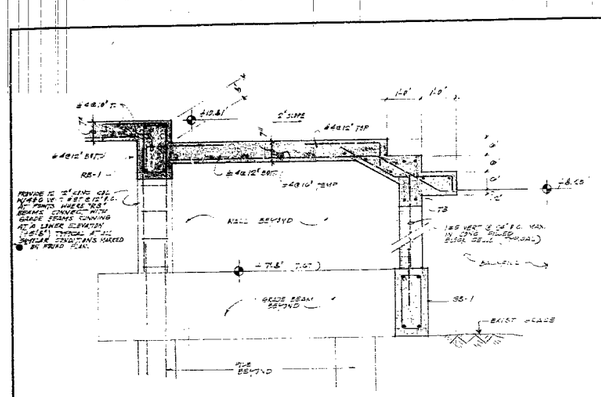
#78124--Ocean Electric--Swimming Pool wiring--8/16/82

#78625 5/27/83 Omni Elect - 1 range top, 1 oven, 2 motors 0-1 hp, 1 a/c window, 3-10 kw strip heater, 1 trash compactor 2 refrig, 1 dishwasher, 1 dryer, 2apl circ

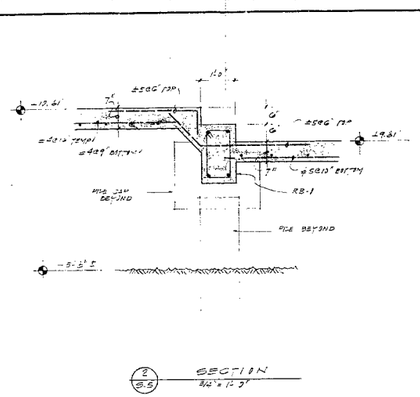
PLUMBING PERMITS: #60152 4/6/82 Independent Plumb - 1 pool piping

#60269 5/27/82 Mile Ortega 3 rgh, 3 set bath tub, 1 rgh, 1 set dishwasher, 7 rgh, 7 set lavatory, 1 rgh, 1 set clothes washer, 2 rgh, 2 set shower, 2 rgh, 2 set sink, pot/3 comp class, 1 rgh, 1 set sink residence, 5 rgh, 5 set water closet, 2 heater new install, 1 water service, 1 sewer conn.

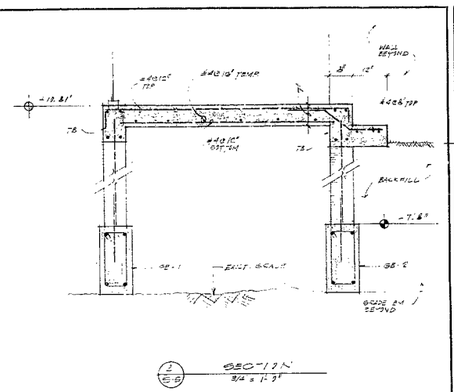
90596



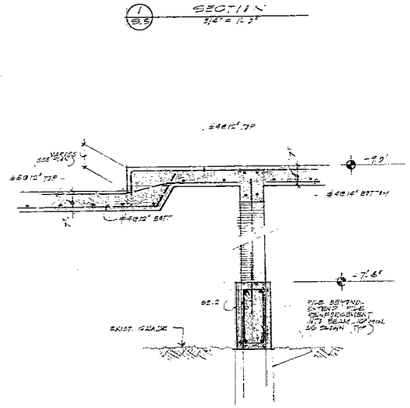
1 / S-5 SECTION 3/4" = 1'-0"



2 / S-5 SECTION 3/4" = 1'-0"



1 / S-6 SECTION 3/4" = 1'-0"



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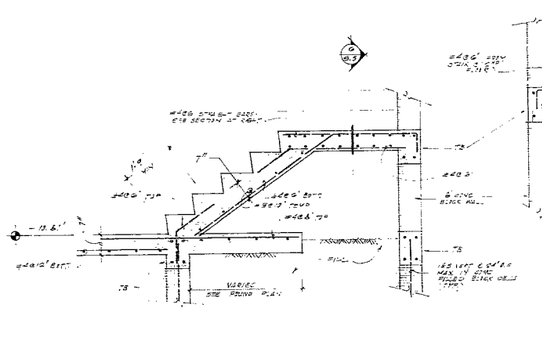
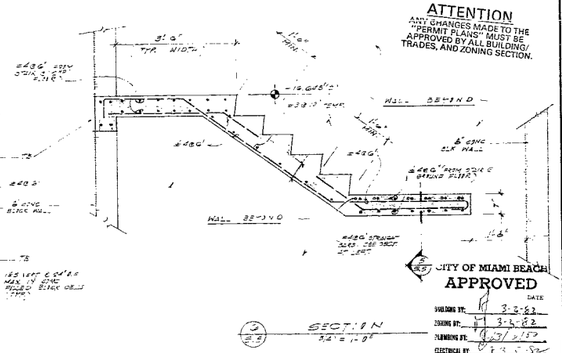


3 / S-5 SECTION 3/4" = 1'-0"

5 / S-5 SECTION 3/4" = 1'-0"



2 / S-6 SECTION 3/4" = 1'-0"

ATTENTION
ANY CHANGES MADE TO THE "PERMIT PLANS" MUST BE APPROVED BY ALL BUILDING/ TRADES, AND ZONING SECTION.

CITY OF MIAMI BEACH
APPROVED
DATE
BUILDING BY: 3-3-82
ZONING BY: 3-4-82
PLUMBING BY: 3/31/82
ELECTRICAL BY:
MECHANICAL BY: 3-4-82
PUBLIC WORKS:
PLANNING:

OFFICE COPY

REVISIONS	BY

GOMEZ-PINE ENGINEERING, P.A.
STRUCTURAL ENGINEERS
MIAMI, FLORIDA 33134

PROPOSED RESIDENCE FOR:
MR. & MRS. CARLOS GIL
MIAMI BEACH, FLORIDA

Date 2-19-82
Scale NOTED
Drawn LG
Job 8230
Sheet S-5
Of 5 Sheets

90596

PUBLIC WORKS DEPARTMENT — Engineering Division

Construction Services

TO: CODE ENFORCEMENT DIVISION

LEGAL DESCRIPTION: LOT: 12 BLOCK: 3 SAN MARINO ISLAND

LEGAL ADDRESS: 409 E. San Marino Drive

PLAN DESCRIPTION: SWIMMING POOL

THE ABOVE PLAN SUBMITTED TO THIS DIVISION NEEDS THE FOLLOWING CORRECTIONS:

GARBAGE FACILITIES: TO USE EXISTING FACILITIES

SANITARY SEWER: TO USE EXISTING FACILITIES

WATER: TO USE EXISTING FACILITIES

DRAINAGE: AS SHOWN - SEE NOTE # 1

GRADES: AS SHOWN

ENCROACHMENTS, EASEMENTS: NONE

PUBLIC WORKS DEPARTMENT PERMITS REQUIRED FOR WORK DONE ON CITY PROPERTY.

COMMENTS:

NOTE # 1 - POOL WASTE WATER TO BE PIPED TO BAY VIA 1 CUBIC YARD OPEN BOTTOM SETTLING BOX. PIPE TO DISCHARGE BELOW MEAN LOW WATER.

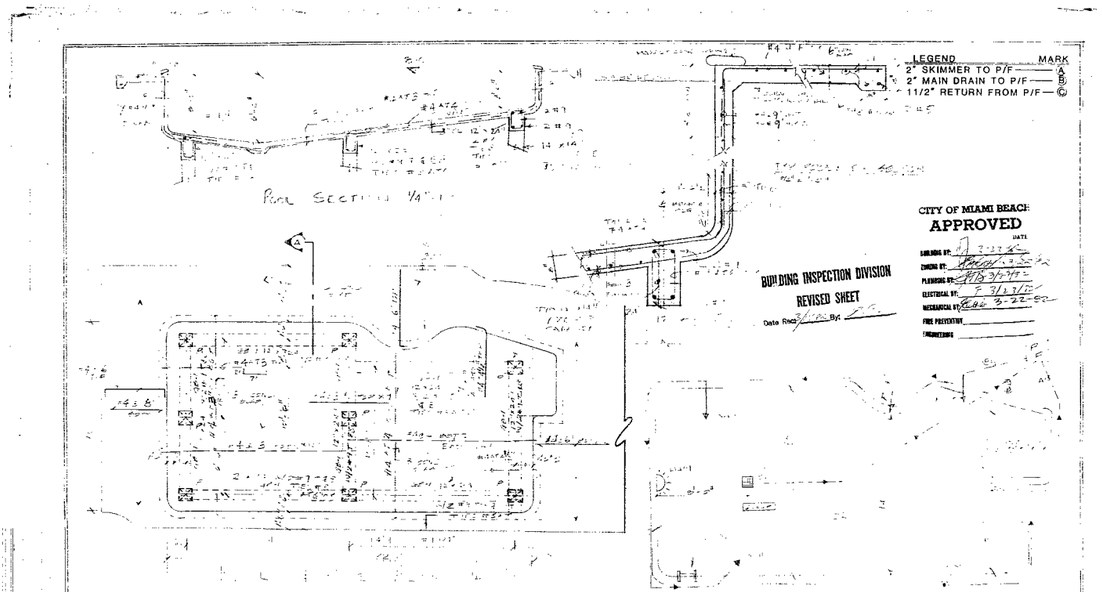
Serafin Martinez.

[signature]

Jet Pool. 552-1618.

APPROVED FOR PERMIT SUBJECT TO ABOVE CORRECTIONS 3/23/82 (date) [signature] FRANK AYMONIN ENGINEERING DIV.

90596



FLOTATION ANALYSIS

WATER LEVEL ELEV.	8.0
POOL DEPTH	6.5
LOW POINT POOL LEVEL	1.5
FLOOD CRITERIA	6.0
P.O.-DEPTH ELEV.	4.5
LESS HYDRO VERT.	2.5
HYDROSTATIC UPLIFT	2.0

SOIL STATEMENT

THE SOIL CONDITIONS AT THIS SITE ARE ADEQUATE TO SUPPORT THE DESIGN LOAD OF 2500 P.S.F. IF CONDITIONS OTHER THAN THESE ARE ENCOUNTERED, THE CONSULTING ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH THE WORK.

POOL DATA

CAPACITY 12283.2 GALLONS
CIRCULATION 82 G.P.M.
PUMP 1½ H.P.

LEGAL

LOT 2, BLOCK 19,
SUB'V. OF [illegible]
P/B. 7 PG. 24
DADE COUNTY, FLORIDA

PROPOSED SWIMMING POOL

FOR:
409 SAN MARINO DR. N. MIAMI
AT:
BY: JET POOLS INC.

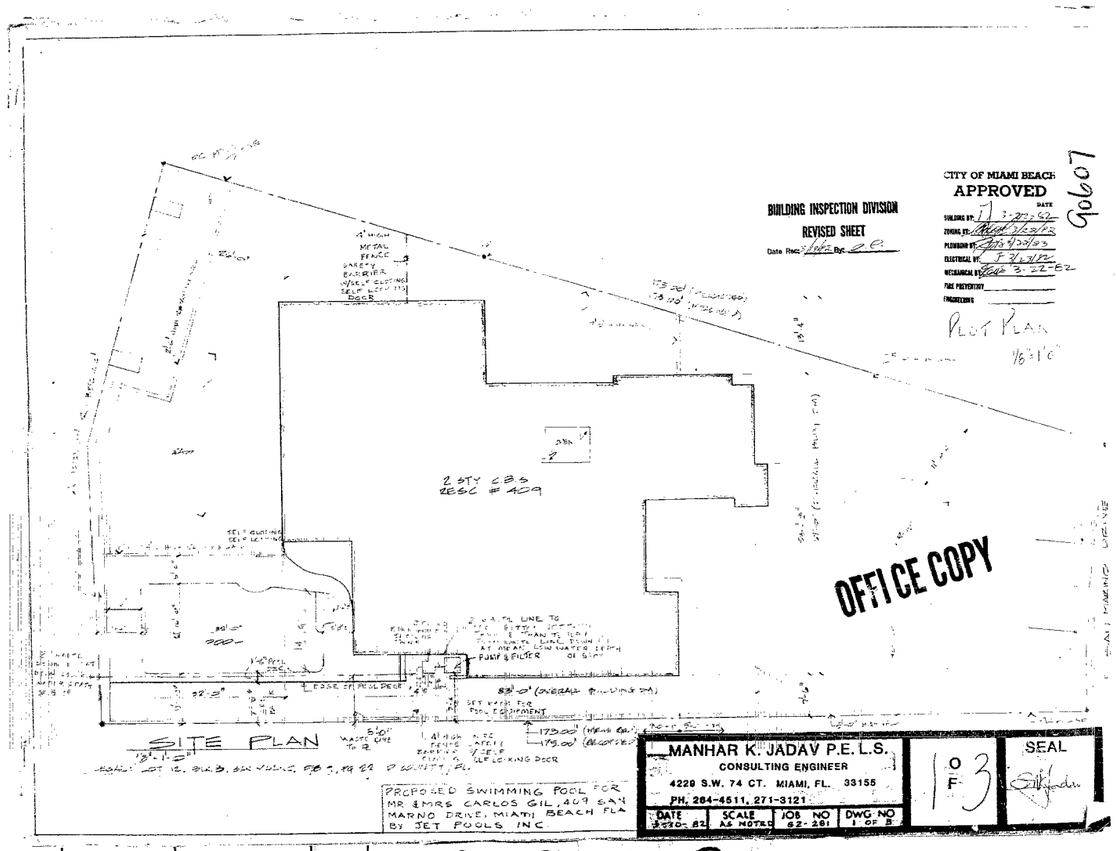
MANHAR K. JADAV P.E. L.S.
CONSULTING ENGINEER
4229 S.W. 74 CT. MIAMI, FL. 33155
PH. 264-4511, 271-3121

DATE	SCALE	JOB NO	DWG NO
2-82	1/4"=1'-0"	82-231	2 OF 2

O F

SEAL

90596



BUILDING INSPECTION DIVISION
REVISED SHEET
Date Rec'd 10-12 By EC

CITY OF MIAMI BEACH
APPROVED
DATE
BUILDING BY: 3-22-82
ZONING BY: 3/23/82
PLUMBING BY: 3/23/82
ELECTRICAL BY: 3-22-82
MECHANICAL BY: 3-22-82
FIRE PREVENTION
ENGINEERING

PLOT PLAN
1/8"=1'0

OFFICE COPY

MANHAR K. JADAV P.E. L.S.
CONSULTING ENGINEER
4229 S.W. 74 CT. MIAMI, FL. 33155
PH. 264-4511, 271-3121

DATE	SCALE	JOB NO	DWG NO
2-20-82	AS NOTED	82-201	1 OF 3

1 OF 3

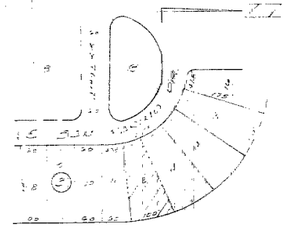
SEAL

90596

90596

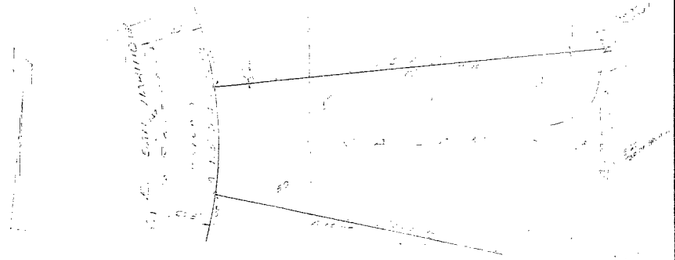
LOCATION SKETCH

scale: 1" = [illegible]



SKETCH OF SURVEY

scale: 1" = [illegible]

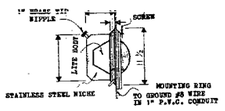


Elevations taken 4-23-83
Elevations referred to N.G.V.D. Datum

90596

NOTES:
1. ALL CONC. TO TEST 3000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS.
2. REINFORCING BARS SHALL BE NEW BILLET GRADE CONFORMING TO ASTM A 615 GRADE 60.
3. ALL PIPING TO BE P.V.C. SCHEDULE 40.
4. ELECTRICAL- INSTALL WIRING & DEVICES AS INDICATED IN PLANS SCHEDULE SHALL PREMISE ELECT. SERVICE AT EXISTING ENTRY INSTALL DISCONNECT AT MOTOR IF NOT WITHIN 50 FT. OF FENCED SWITCH AT SERVICE POINT.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT SITE BEFORE PROCEEDING WITH THE WORK.
6. ENGINEER TO BE NOTIFIED IF SOIL BEARING IS LESS THAN 2500 P.S.F. OF THE PRESENCE OF MUCK, SILT, OR SOFT SOIL.
7. ELECTRICAL LAMP CONNECTION TO COMPLY WITH NAT'L ELECT. CODE 680-
8. ENGINEER IS RESPONSIBLE FOR CONSTRUCTION ONLY IF DONE UNDER THE SUPERVISION OF THE CONSULTING ENGINEER.
9. POSITION OF DISCHARGE OF POOL WATER MAY BE ALTERED. ONE HOSE, SHALL CONFINE TO WITHIN LOT LINES, AND CONFORM TO SECTION 5000 OF THE SOUTH FLORIDA BLDG. CODE.
10. ONE INCH P.V.C. CONDUIT IN POOL AREA. GROUND ALL BOXES, LIGHT, MOTOR, LADDERS, ETC. W/#8 WIRE SEPERATELY. POOL PUMP MOTOR TO BE LOCATED ABOVE GROUND WITHIN #8 GROUND WIRE.
11. THESE PLANS ARE NOT VALID UNLESS SIGNED AND SEALED BY CONSULTING ENGINEER.

NOTE:
PUMP & FILTER TO BE METRO
PRODUCT CONTROL APPROVED



UNDERWATER LIGHT DETAIL

SOIL STATEMENT

THE SOIL CONDITIONS AT THIS SITE ARE ADEQUATE TO SUPPORT THE DESIGN LOAD OF 2500 P.S.F. IF CONDITIONS OTHER THAN THIS IS ENCOUNTERED, THE CONSULTING ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH THE WORK

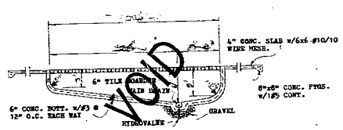
FLOTATION ANALYSIS

	FEET
WATER LEVEL ELEV.	8.0
POOL DEPTH.	6.0
LOW POINT ELEV.	2.0
FLOOD CRITERIA	6.0
P.C. DEPTH ELEV.	4.0
LESS HYDRO VENT	1.0
HYDROSTATIC UPLIFT	3.0

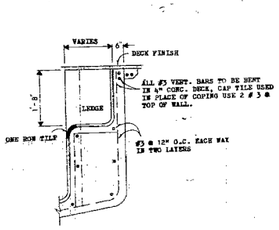
ACTUAL TOP OF POOL 5.6

POOL DATA

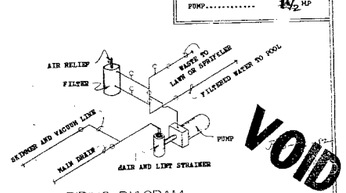
CAPACITY..... 17,280 GALS.
CIRCULATION..... 48 G.P.M.
PUMP..... 1½ H.P.



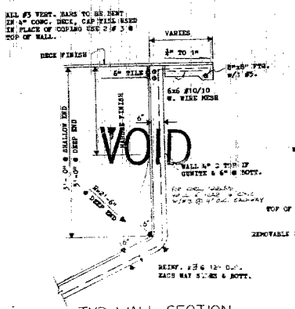
PCOL SECTION



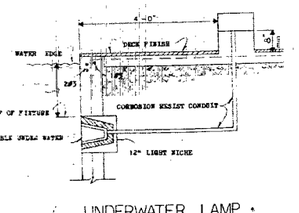
LEDGE DETAIL



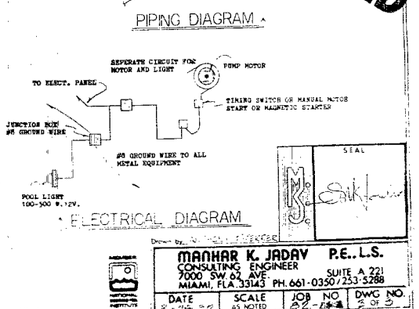
PIPING DIAGRAM



TYP WALL SECTION



UNDERWATER LAMP



ELECTRICAL DIAGRAM

MANHAR K. JADAV P.E., L.S.
CONSULTING ENGINEER
7000 SW 62 AVE. SUITE A 221
MIAMI, FLA. 33143 PH. 661-0350/253-5288

DATE	SCALE	JOB NO	DWG NO.
8-24-90	AS NOTED	88-184	5 OF 5

VOID

VOID

VOID

90596

INTRUSION AND BURGLARY SECURITY NOTES:
(AS REQUIRED BY METRO DADE, ORDINANCE No. 72-8-80.)

1- ALL REMED EXTERIOR LOCKS SHALL HAVE A MINIMUM OF GOOD POSSIBLE VARIATIONS.
2- ALL DEAD BOLTS SHALL HAVE HARDENED STEEL INSERTS.
3- ALL DOOR LOCKS SHALL BE CAPABLE OF RESISTING A FORCE OF 300 POUNDS APPLIED IN ANY DIRECTION
4- THE ACTIVE LEAF OF PAIR OF SWINGING EXTERIOR DOORS SHALL HAVE A REMED CYLINDER LOCK AS WELL AS A 1" DEAD BOLT LOCK, THE INACTIVE LEAF SHALL HAVE 5/8" MIN THROW BOLTS TOP & BOTTOM WITH INSERTS.
5- ALL SLIDING GLASS DOORS SHALL HAVE STANDARD LATCHES AT THE CENTER MEETING RAILS OR AT THE SIDE JAMB AS WELL AS INTERIOR PIN LOCKS THRU THE FRAMES AND INTO THE DOOR, AS SUCH DOORS SHALL BE REMOVABLE FROM THE TRACK FROM THE EXTERIOR SIDE (NON SLIDING GLASS WINDOW)
6- THE OVERHEAD GARAGE DOOR SHALL HAVE A 5/8" MIN HARDENED LOCK AT EACH SIDE, KEY OPERATED FROM THE EXTERIOR, LEVER OPERATED FROM THE INTERIOR.
7- ALL EXTERIOR WINDOWS SHALL BE EQUIPED WITH LOCKING DEVICES CAPABLE OF WITHSTANDING A FORCE OF 30 POUNDS APPLIED IN THE OPERABLE DIRECTION.
8- ALL EXPOSED DOORS AND WINDOW HINGES SHALL HAVE NON REMOVABLE HINGES PINS AND NON EXPOSED SCREWS.
9- ALL WOOD EXTERIOR DOOR FRAMES SHALL BE OF ELECTED GRADE
10- ALL GLASS WITHIN 40 INCHES OF ANY DOOR LOCK SHALL COMPLY WITH A.N.S. STANDARD FOR SAFETY GLAZING MATERIALS 2.1.1.-1972
11- DOORS CONNECTING THE GARAGE WITH THE INTERIOR LIVING AREAS SHALL MEET ALL REQUIREMENTS FOR EXTERIOR DOORS AS WELL AS THOSE SPECIFIED ABOVE.

90596

CITY OF MIAMI BEACH
APPROVED
DATE
BUILDING BY: 3-2-82
ZONING BY: 3-2-82
PLANNING BY: 3/30/82
ELECTRICAL BY: 3-5-82
MECHANICAL BY: 3-5-82
1ST FLOOR ELEVATION
PLANS CONFORM

ATTENTION
ANY CHANGES MADE TO THESE PERMIT PLANS MUST BE APPROVED BY ALL BUILDING, TRADES, AND ZONING SECTION.

OFFICE COPY

GARAGE NOTES:
1- CEILING TO BE FURRING, 16" O.C. WITH ONE LAYER 5/8" THICK GYPSUM LATH W/ 5D NAILS (CEMENT COATED) AT 6" O.C. & 2" BATTS R-11 INSULATION BETWEEN TRUSSES FOR ONE HOUR FIRE RATED CEILING ASSEMBLY.
2- GARAGE SIGN ON INTERIOR DOOR AS FOLLOWS: DANGER, DO NOT OPERATE ENGINES WITH DOOR CLOSED CARBON MONOXIDE EMISSION IS LETHAL! RED SIGN WITH WHITE LETTERS (6.01 A.M.A.)
3- HOOK REINFORCING STEEL INTO FOOTING AND TIE SLAB (24" MIN.) FROM TIE COLUMNS EA. SIDE OF GARAGE DOOR. PROVIDE 2"x6" P.T. FRAME WITH 1/2" A.B. @ 12" O.C. (6" FROM TOP AND BOTTOM) ATTACHED TO TIE COLUMNS & TIE BEAM FOR GARAGE DOOR MOUNTING.

SITE PLAN
LEGAL: LOT 12, BLOCK 3, SAN MARINO, PLAT BOOK 9, PAGE 92 DADE COUNTY, FLORIDA.

CARLOS A. MARTI - ARCHITECT
STREET - SUITE 110
CORAL GABLES, FLORIDA 33134
TELEPHONE - 443-2465.

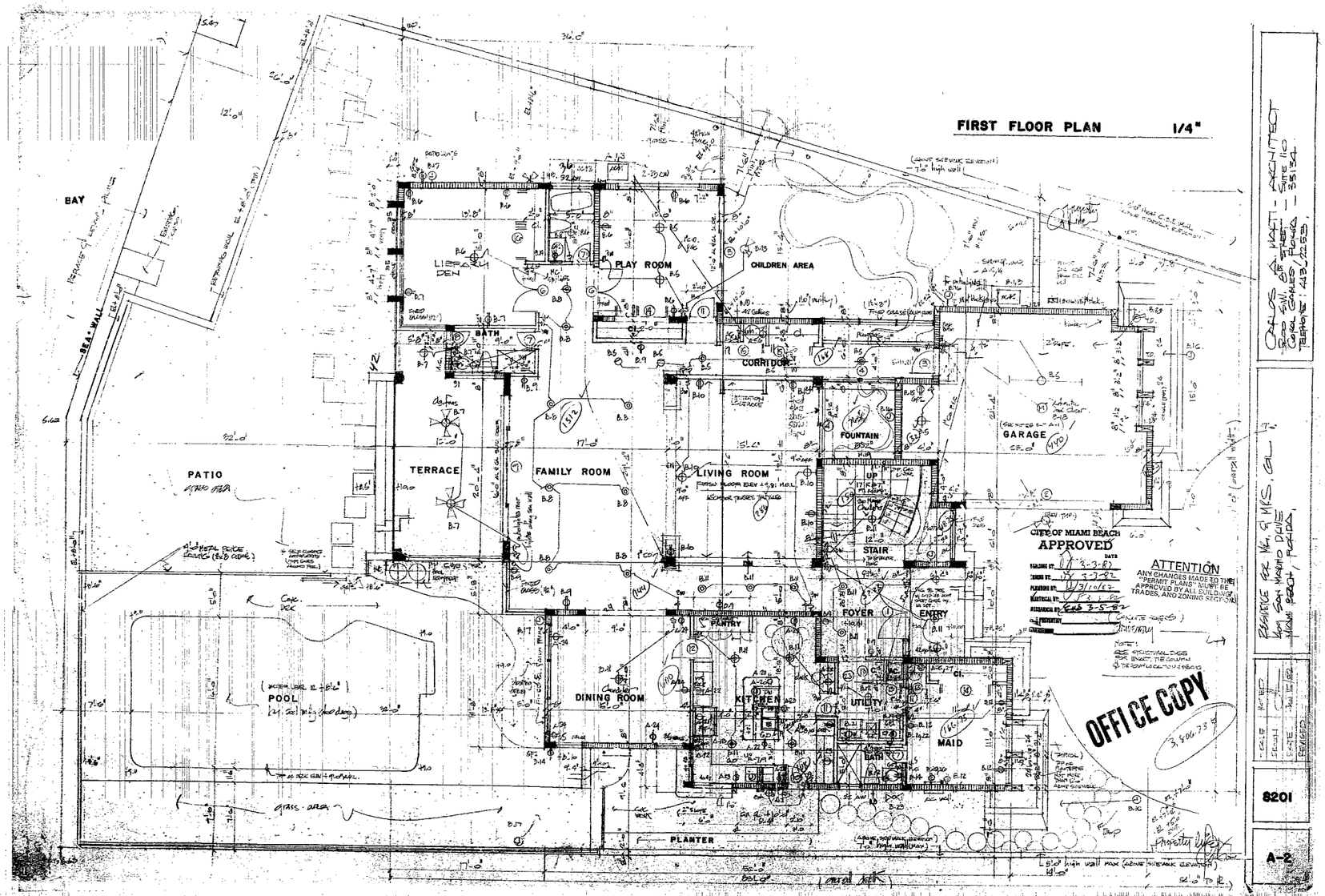
RESIDENCE FOR MR. & MRS. CARLOS GIL
409 SAN MARINO DRIVE
MIAMI BEACH, FLORIDA.

NOTED
SCALE
APPROVED
DATE
CERTIFIED

8201

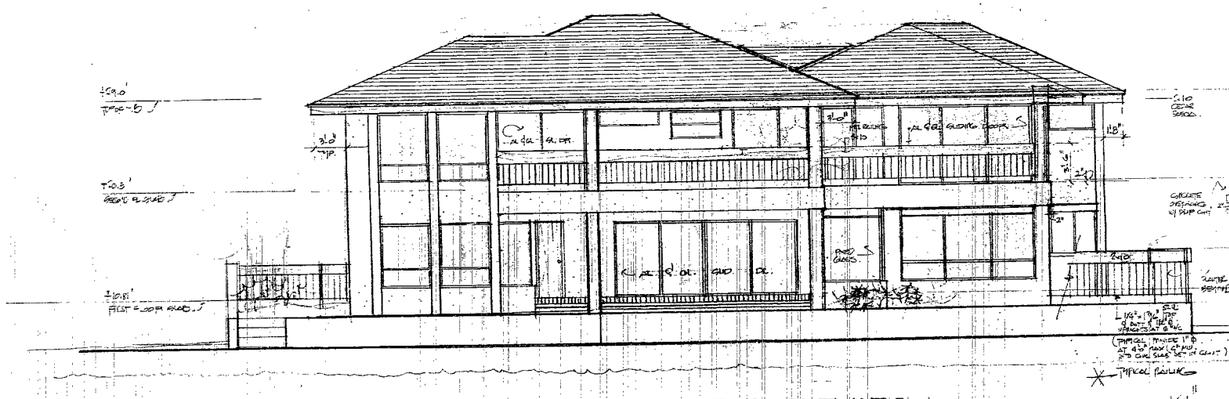
A-1

90596


FIRST FLOOR PLAN 1/4"
BAY
SEA WALL
PATIO
TERRACE
FAMILY ROOM
LIVING ROOM
DEN
PLAY ROOM
CHILDREN AREA
BATH
CORRIDOR
FOUNTAIN
GARAGE
STAIR
FOYER
ENTRY
POOL
DINING ROOM
KITCHEN
UTILITY
MAID
BATH
PLANTER
GLASS AREA
CITY OF MIAMI BEACH
APPROVED
ATTENTION
ANY CHANGES MADE TO THE "PERMIT PLANS" MUST BE APPROVED BY ALL BUILDING, TRADES, AND ZONING SECTION
OFFICE COPY
CARLOS A. WAITT - ARCHITECT
8200 S.W. 81st STREET - SUITE 110
CORAL GABLES, FLORIDA - 33143
TELEPHONE: 412/2823
RESIDENCE FOR Mr. & Mrs. GIL
8201 SOUTH MIAMI DRIVE
MIAMI BEACH, FLORIDA
8201
A-2

90596

LEFT SIDE ELEVATION 1/4"



REAR ELEVATION 1/4"

CITY OF MIAMI BEACH
APPROVED
DATE
BUILDING BY: 2-3-92
ZONING BY: 2-7-92
PLANNING BY: 12/3/10/92
ELECTRICAL BY:
MECHANICAL BY: 3-5-92
TREE PRESERVATION
INSPECTIONS

OFFICE COPY

ATTENTION
ANY CHANGES MADE TO THE "PERMIT PLANS" MUST BE APPROVED BY ALL BUILDING, TRADES, AND ZONING SECTIONS.

CARLOS A. MARTI - ARCHITECT
8200 SW. 8th STREET - SUITE 110
CORAL GABLES, FLORIDA - 33144
TELEPHONE — 446 2589

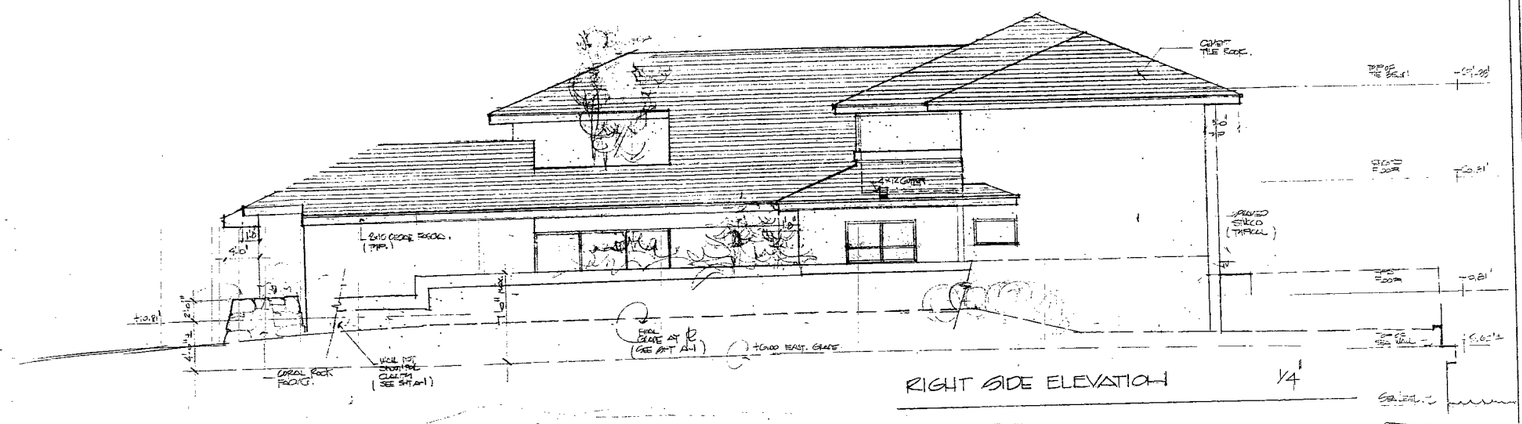
RESIDENCE FOR MR & MRS. GIL
407 BAY MARINO DRIVE
MIAMI BEACH, FLORIDA.

SCALE	NOTED
DRAWN	CAL
DATE	JAN 15/92
REVISED	

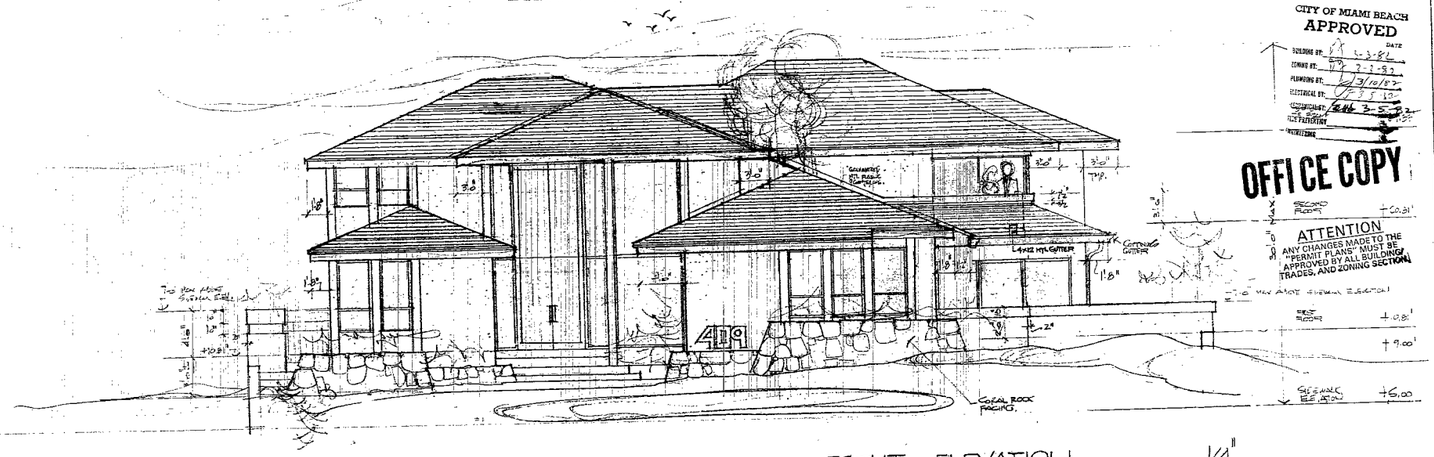
8201

A-5

90596



RIGHT SIDE ELEVATION 1/4"



FRONT ELEVATION 1/4"

ALL CURBS TO BE SOLAR BRONZE / ALL DOORS TO BE PAINTED REDWOOD PRIMED (WINDOW COLORS)

CITY OF MIAMI BEACH
APPROVED
DATE
BUILDING BY: 3-3-92
ZONING BY: 3-10-92
PLUMBING BY: 3/10/92
MECHANICAL BY:
PUBLIC WORKS:
FIRE PREVENTION:
HISTORIC ZONING:

OFFICE COPY

ATTENTION
ANY CHANGES MADE TO THE "PERMIT PLANS" MUST BE APPROVED BY ALL BUILDING, TRADES, AND ZONING SECTIONS

CARLOS A. MARTI - ARCHITECT
5200 S.W. 8th STREET - SUITE 110
CORAL GABLES, FLORIDA.
TELEPHONE 448-8228

RESIDENCE FOR MR & MRS. GIL
409 SAN MARINO DRIVE
MIAMI BEACH, FLORIDA.

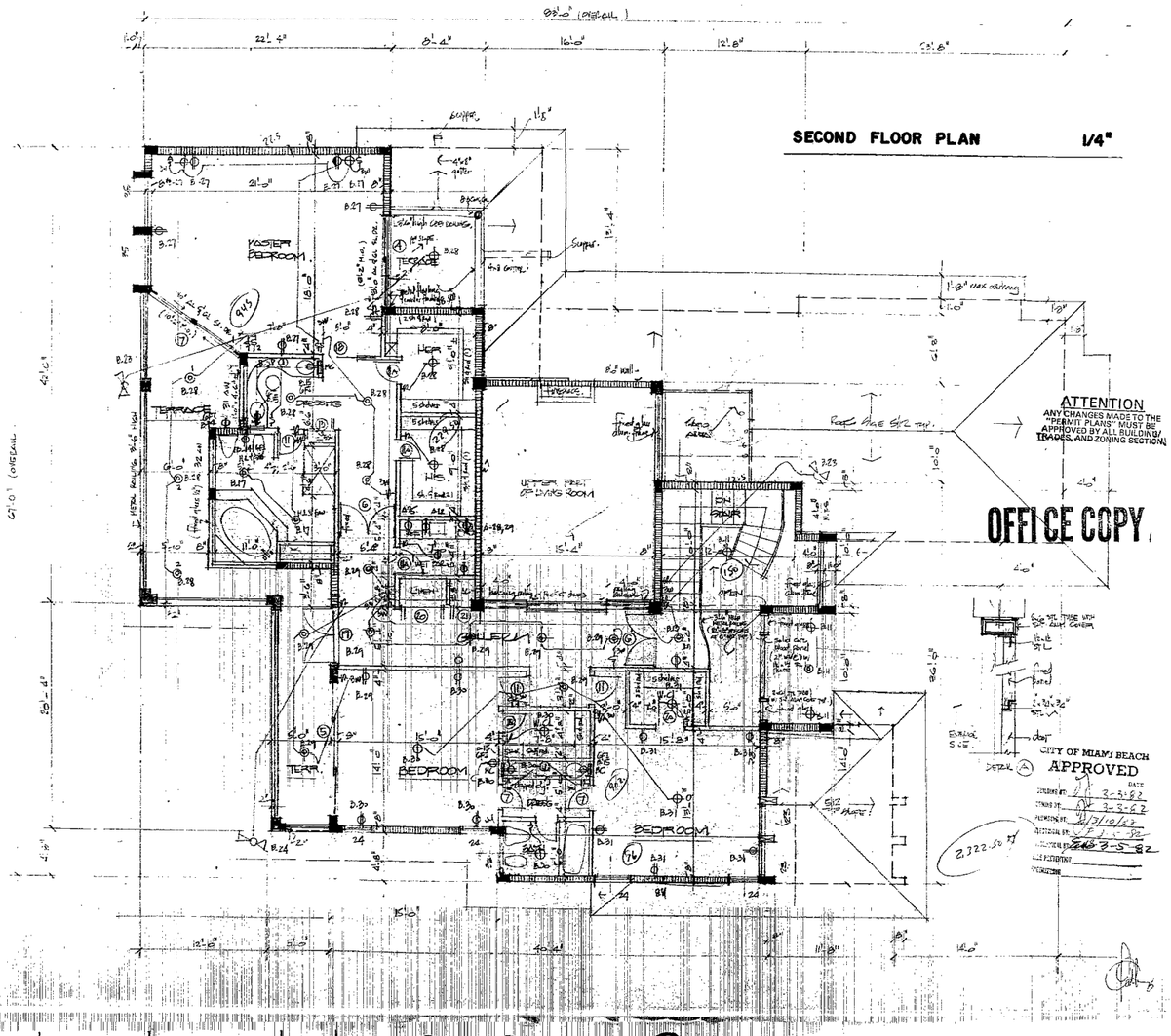
ISSUE	NOTED
PRINT	JAN 15 92
DATE	
REVISED	

8201

A-4

90596

SECOND FLOOR PLAN 1/4"



CARLOS A. KAPTI - ARCHITECT
8200 S.W. 87 STREET - SUITE 110
CORAL GABLES, FLORIDA - 33143
TELEPHONE: 448-1229

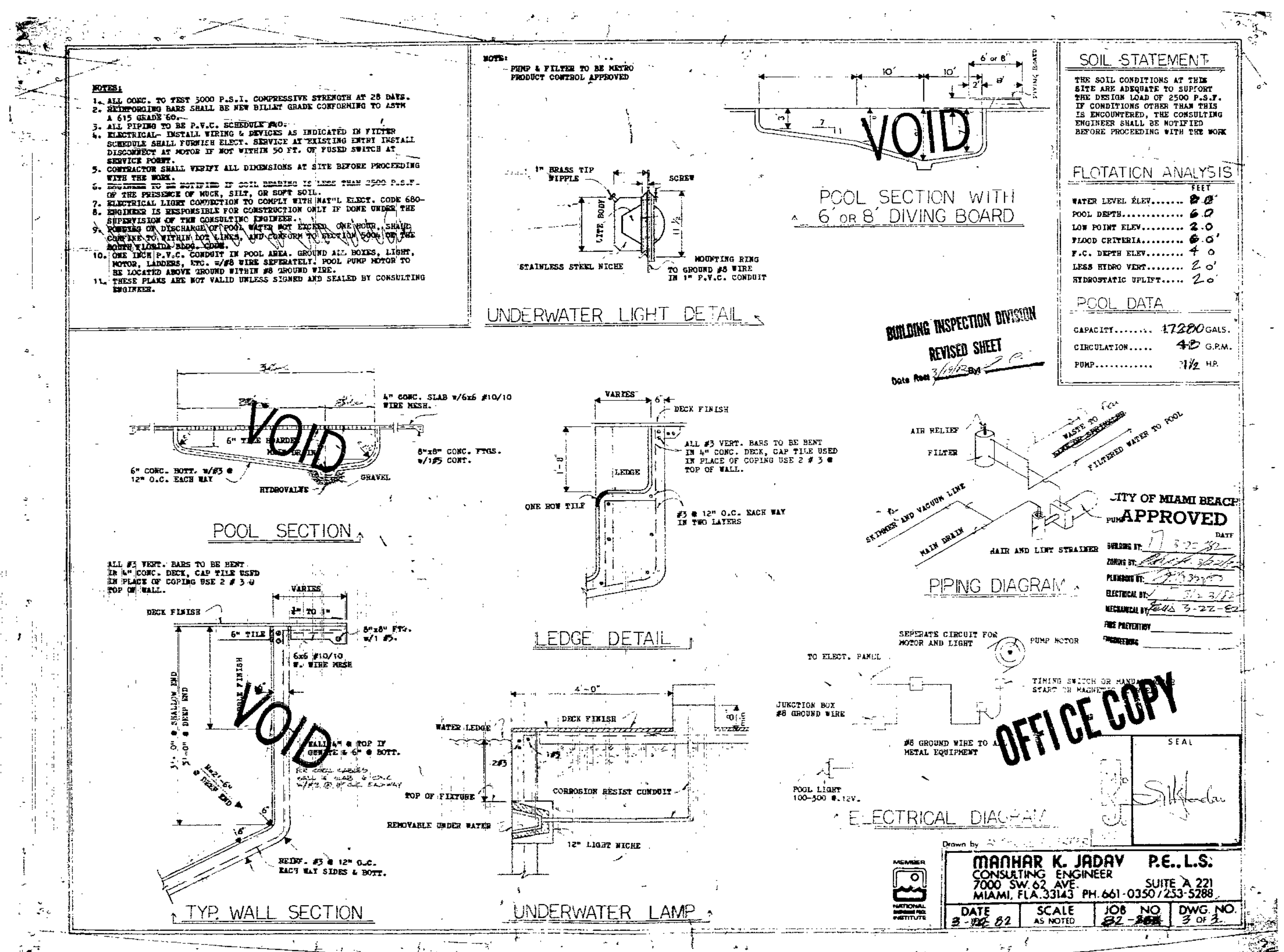
RESIDENCE FOR MR. & MRS. GIL
401 SAN MARINO DRIVE
MIAMI BEACH, FLORIDA

SCALE	NOTED
DRAWN	CAP
DATE	JAN 6/82
REVISED	

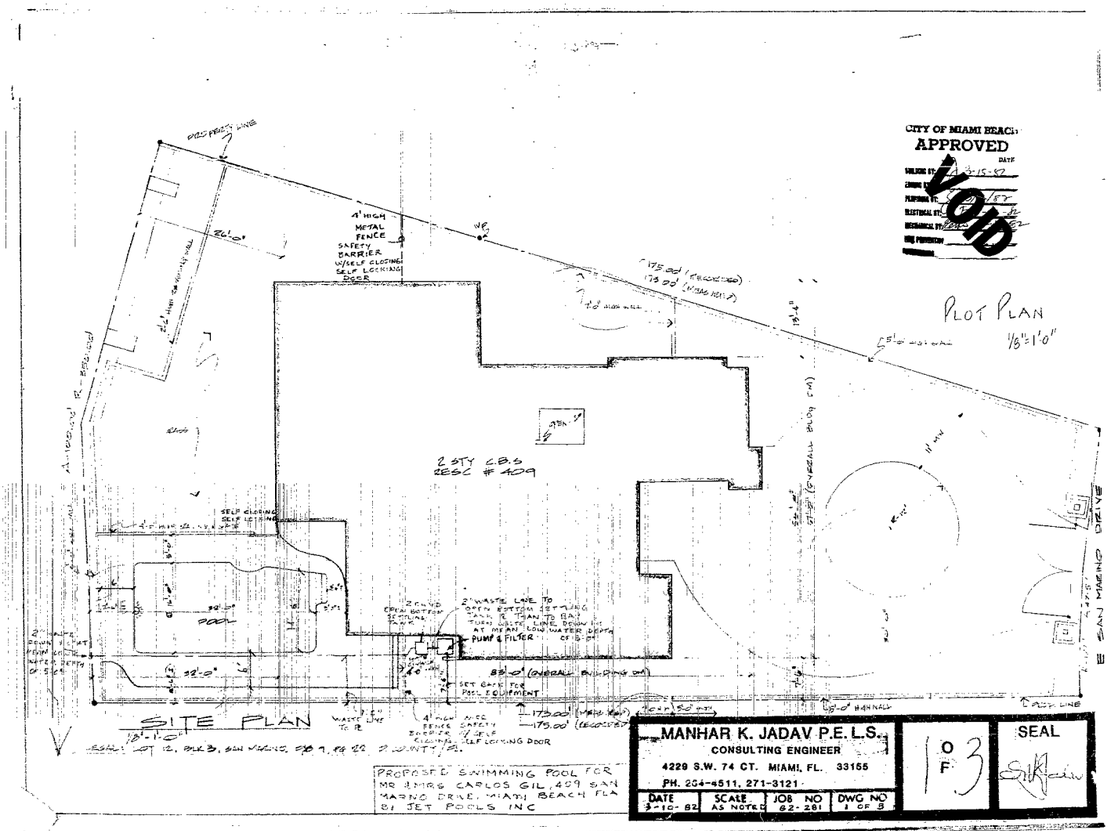
8201

A-3

90596


NOTES:
1. ALL CONC. TO TEST 3000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS.
2. REINFORCING BARS SHALL BE NEW BILLET GRADE CONFORMING TO ASTM A 615 GRADE 60.
3. ALL PIPING TO BE P.V.C. SCHEDULE 40.
4. ELECTRICAL- INSTALL WIRING & DEVICES AS INDICATED IN FILTER SCHEDULE SHALL FURNISH ELECT. SERVICE AT EXISTING ENTRY INSTALL DISCONNECT AT MOTOR IF NOT WITHIN 50 FT. OF FUSED SWITCH AT SERVICE POINT.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT SITE BEFORE PROCEEDING WITH THE WORK.
6. OF THE PRESENCE OF MUCK, SILT, OR SOFT SOIL.
7. ELECTRICAL LIGHT CONNECTION TO COMPLY WITH NAT'L ELECT. CODE 680-
8. ENGINEER IS RESPONSIBLE FOR CONSTRUCTION ONLY IF DONE UNDER THE SUPERVISION OF THE CONSULTING ENGINEER.
10. ONE INCH P.V.C. CONDUIT IN POOL AREA. GROUND ALL BOXES, LIGHT, MOTOR, LADDERS, ETC. W/#8 WIRE SEPERATELY. POOL PUMP MOTOR TO BE LOCATED ABOVE GROUND WITHIN #8 GROUND WIRE.
11. THESE PLANS ARE NOT VALID UNLESS SIGNED AND SEALED BY CONSULTING ENGINEER.
NOTE:
PUMP & FILTER TO BE METRO PRODUCT CONTROL APPROVED
UNDERWATER LIGHT DETAIL
POOL SECTION WITH 6' OR 8' DIVING BOARD
VOID
SOIL STATEMENT
THE SOIL CONDITIONS AT THIS SITE ARE ADEQUATE TO SUPPORT THE DESIGN LOAD OF 2500 P.S.F. IF CONDITIONS OTHER THAN THIS IS ENCOUNTERED, THE CONSULTING ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH THE WORK
FLOTATION ANALYSIS
FEET
WATER LEVEL ELEV....... 8.0
POOL DEPTH............ 6.0
LOW POINT ELEV......... 2.0
FLOOD CRITERIA......... 6.0'
F.C. DEPTH ELEV........ 4 0
LESS HYDRO VENT........ 2 0'
HYDROSTATIC UPLIFT..... 2 0'
POOL DATA
CAPACITY........ 17280 GALS.
CIRCULATION..... 40 G.P.M.
PUMP............ 1½ H.P.
BUILDING INSPECTION DIVISION
REVISED SHEET
POOL SECTION
LEDGE DETAIL
PIPING DIAGRAM
WASTE TO
FILTERED WATER TO POOL
MAIN DRAIN
HAIR AND LINT STRAINER
CITY OF MIAMI BEACH
APPROVED
TYP. WALL SECTION
UNDERWATER LAMP
ELECTRICAL DIAGRAM
#8 GROUND WIRE TO ALL METAL EQUIPMENT
OFFICE COPY
SEAL
Drawn by
MANHAR K. JADAV P.E., L.S.
CONSULTING ENGINEER
7000 SW. 62 AVE. SUITE A 221
MIAMI, FLA. 33143 PH. 661-0350/253-5288
DATE 3-22-82
SCALE AS NOTED
JOB NO. 82-
DWG. NO. 3 OF 3

90596



CITY OF MIAMI BEACH
APPROVED
DATE
3-15-82
VOID

PLOT PLAN
1/8"=1'0"

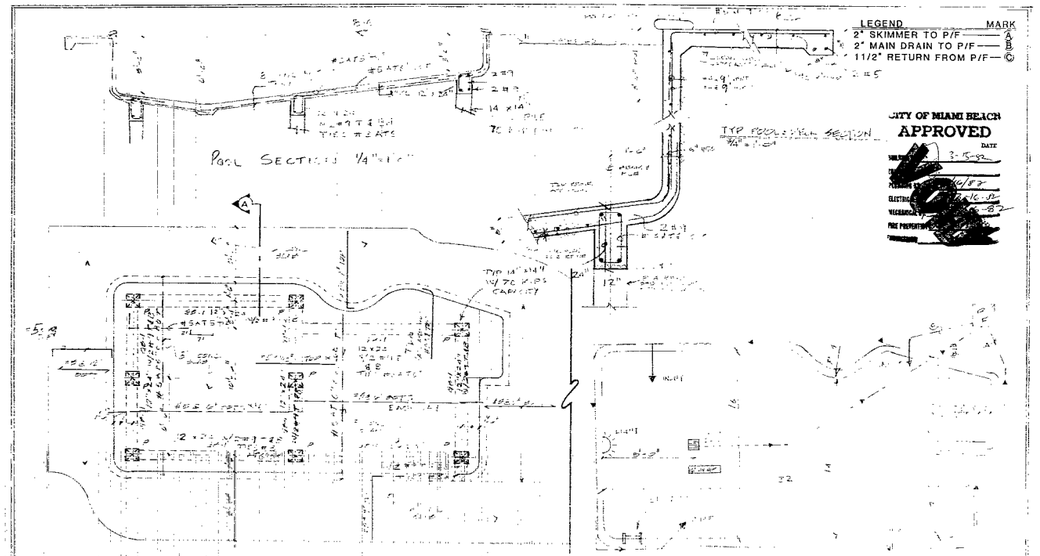
MANHAR K. JADAV P.E. L.S.
CONSULTING ENGINEER
4229 S.W. 74 CT. MIAMI, FL. 33155
PH. 264-4511, 271-3121

DATE	SCALE	JOB NO	DWG NO
3-10-82	AS NOTED	82-261	1 OF 3

10 F 3

SEAL

90596



POOL PLAN
1/4" = 1'-0"

FLOTATION ANALYSIS

WATER LEVEL ELEV.	8.0
POOL DEPTH	6.0
LOW POINT POOL LEVEL	2.0
FLOOD CRITERIA	6.0
P.C.L.-DEPTH ELEV.	4.0
LEAD HYDRO VENT.	2.0
HYDROSTATIC UPLIFT	2.0

POOL DATA
CAPACITY 1722.24 GALLONS
CIRCULATION 12 G.P.M.
PUMP 1½ H.P.

LEGAL
LOT 2 BLOCK 5,
SUB'V. [illegible]
P/B. [illegible] PG. 22
DADE COUNTY, FLORIDA

SOIL STATEMENT

THE SOIL CONDITIONS AT THIS SITE ARE ADEQUATE TO SUPPORT THE DESIGN LOAD OF 2000 P.S.F. IF CONDITIONS OTHER THAN THESE ARE ENCOUNTERED, THE CONSULTING ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH THE WORK.

PROPOSED SWIMMING POOL
FOR: [illegible]
AT: [illegible]
BY: [illegible]

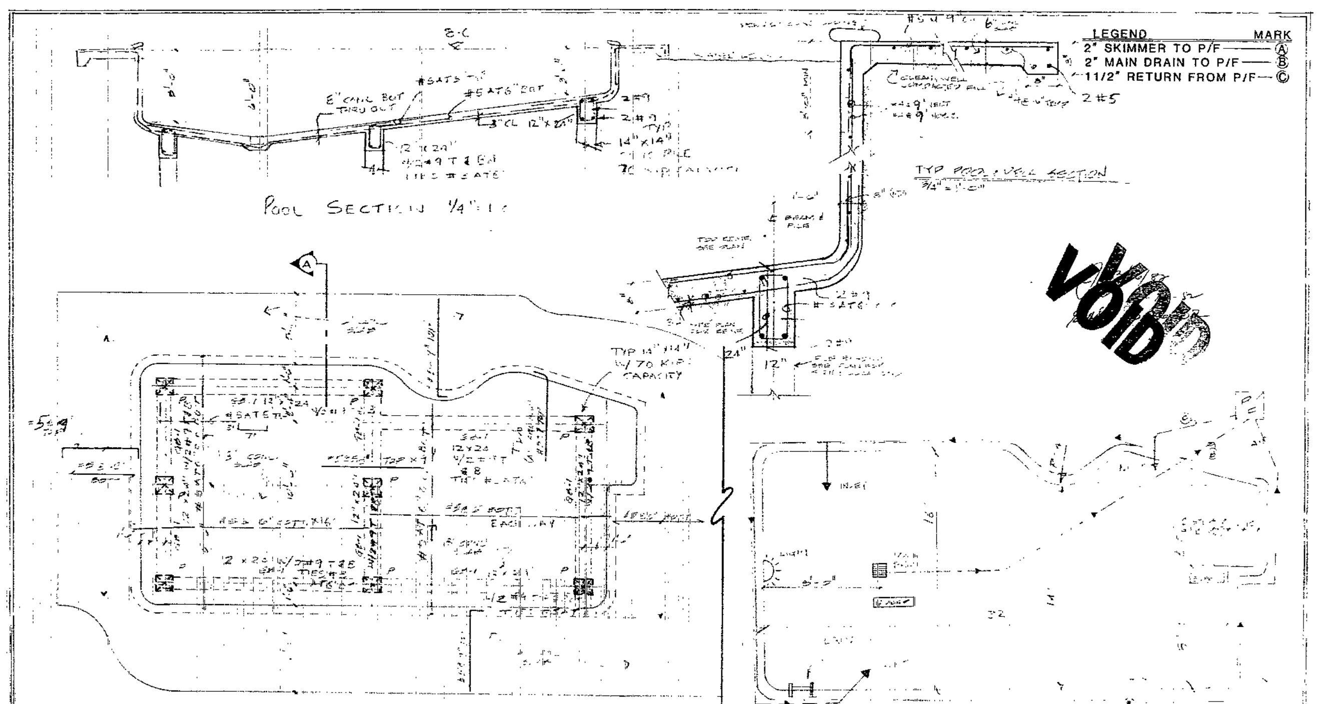
MANHAR K. JADAV P.E. L.S.
CONSULTING ENGINEER
4229 S.W. 74 CT. MIAMI, FL. 33155
PH. 264-4511, 271-3121

DATE	SCALE	JOB NO	DWG NO
3-[illegible]-88	1/4"=1'0"	88-231	S-1

O F

SEAL

90596



POOL PLAN
1/4" = 1'0"

FLOTATION ANALYSIS

WATER LEVEL ELEV.	8.0
POOL DEPTH	6.0
LOW POINT POOL LEVEL	2.0
FLOOD CRITERIA	6.0
F.C.-DEPTH ELEV.	4.0
LESS HYDRO VERT.	2.0
HYDROSTATIC UPLIFT	2.0

POOL DATA

CAPACITY 17,752 GALLONS
CIRCULATION 40 G.P.M.
PUMP 1½ H.P.

LEGAL

LOT 2, BLOCK 8,
SUB'V. SAN MARINO
P/B. , PG. 56
DADE COUNTY, FLORIDA

SOIL STATEMENT

THE SOIL CONDITIONS AT THIS SITE ARE ARE ADEQUATE TO SUPPORT THE DESIGN LOAD OF 2500 P.S.F. IF CONDITIONS OTHER THAN THESE ARE ENCOUNTERED, THE CONSULTING ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH THE WORK.

PROPOSED SWIMMING POOL
Mr. & Mrs. Carlos Gil
FOR:
45 San Marino Dr, M. Beach
AT:
Pools Inc.
BY:

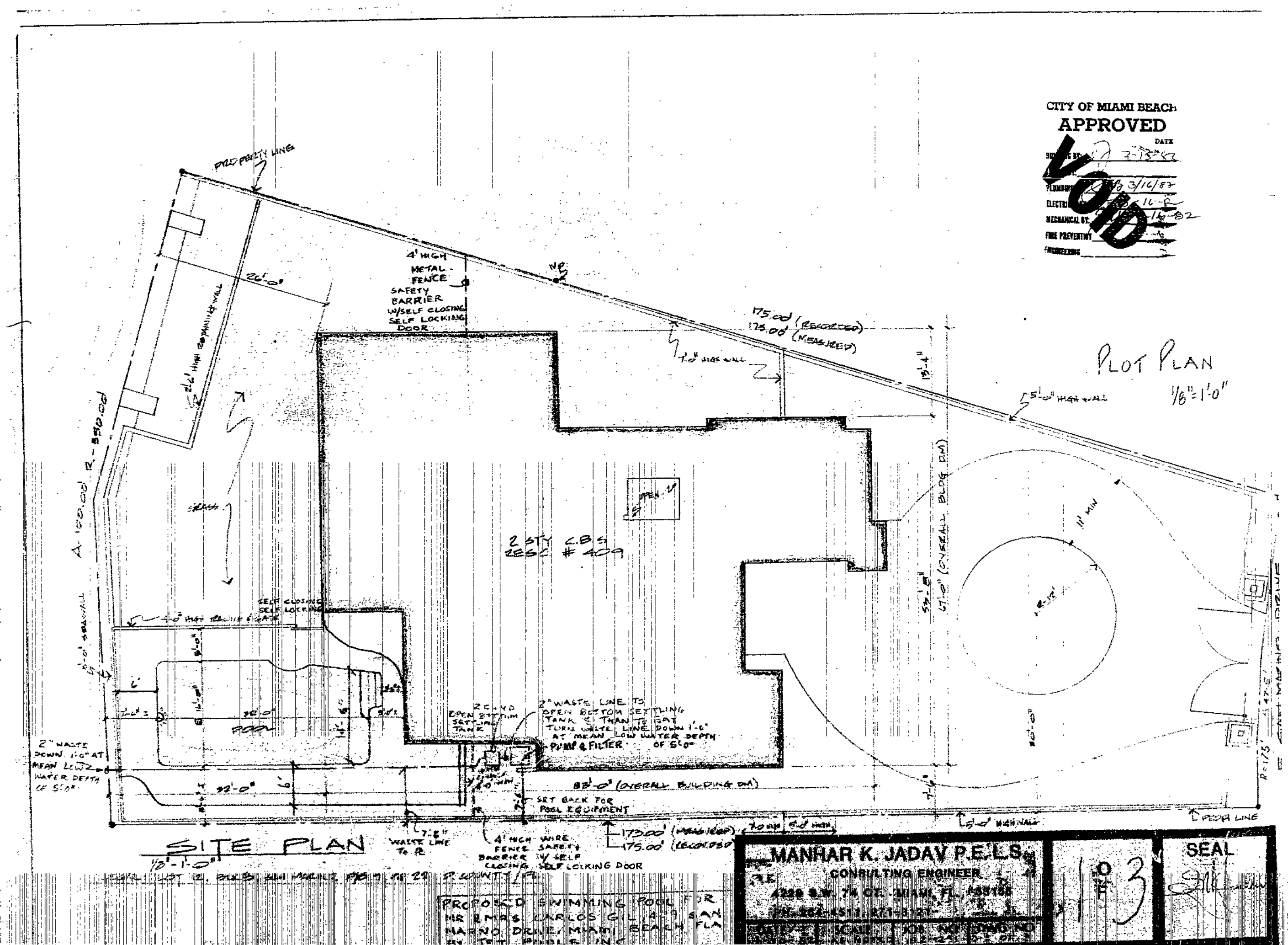
MANHAR K. JADAV P.E. L.S.
CONSULTING ENGINEER
4229 S.W 74 CT MIAMI, FL. 33155
PH 264-4511, 271-3121

DATE	SCALE	JOB NO	DWG NO
[illegible]	[illegible]	[illegible]	[illegible]

OF

SEAL

90596


CITY OF MIAMI BEACH
APPROVED
DATE
PLUMBING
ELECTRICAL
MECHANICAL BY:
FIRE PREVENTION
ENGINEERING
VOID
PLOT PLAN
PROPERTY LINE
4' HIGH METAL FENCE SAFETY BARRIER W/SELF CLOSING SELF LOCKING DOOR
175.00' (RECORDED)
175.00' (MEASURED)
2 STY CBS RESC # 409
83'-0" (OVERALL BUILDING DIM)
SET BACK FOR POOL EQUIPMENT
PUMP & FILTER
173.00' (MEASURED)
175.00' (RECORDED)
4' HIGH WIRE FENCE SAFETY BARRIER W/ SELF CLOSING SELF LOCKING DOOR
7.5" WASTE LINE TO R
SITE PLAN
PROPOSED SWIMMING POOL FOR MR & MRS. CARLOS GIL 4?9 SAN MARINO DRIVE, MIAMI BEACH FLA BY JET POOLS INC
MANHAR K. JADAV P.E. L.S.
CONSULTING ENGINEER
SEAL
1 OF 3

90596

NOTES:

1. ALL CONC. TO TEST 3000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS.
2. REINFORCING BARS SHALL BE NEW BILLET GRADE CONFORMING TO ASTM A 615 GRADE 60.
3. ALL PIPING TO BE P.V.C. SCHEDULE 40.
4. ELECTRICAL- INSTALL WIRING & DEVICES AS INDICATED IN FILTER SCHEDULE SHALL PROVIDE ELECT. SERVICE AT EXISTING ZONET INSTALL DISCONNECT AT MOTOR IF NOT WITHIN 50 FT. OF FEED SWITCH AT SERVICE POINT.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT SITE BEFORE PROCEEDING WITH THE WORK.
6. EXCAVATION TO BE SUPPORTED IF SOIL BEARING IS LESS THAN 2500 P.S.F. OR LESS PRESSURE OF MUCK, SILT, OR SOFT SOIL.
7. ELECTRICAL LINES CONNECTION TO COMPLY WITH NATL. ELECT. CODE 680-
8. ENGINEER IS RESPONSIBLE FOR CONSTRUCTION ONLY IF DONE UNDER THE SUPERVISION OF THE CONSULTING ENGINEER.
9. PERIODS OF DISCHARGE OF POOL WATER NOT EXCEED ONE HOUR, SHALL CONFINE TO WITHIN LOT LINES, AND CONFORM TO SECTION 5004 OF THE SOUTH FLORIDA BLDG. CODE.
10. ONE INCH P.V.C. CONDUIT IN POOL AREA. GROUND ALL BOXES, LIGHT, MOTOR, LADDERS, ETC. w/#8 WIRE SUFFICIENTLY. POOL PUMP MOTOR TO BE LOCATED ABOVE GROUND WITHIN #8 GROUNDED WIRE.
11. THESE PLANS ARE NOT VALID UNLESS SIGNED AND SEALED BY CONSULTING ENGINEER.

NOTE:
PUMP & FILTER TO BE METRO PRODUCT CONTROL APPROVED

1" BRASS TIP NIPPLE — SCREEN — 11½" — LITE BODY — STAINLESS STEEL NICHE — MOUNTING RING TO GROUND #8 WIRE IN 1" P.V.C. CONDUIT

UNDERWATER LIGHT DETAIL

CITY OF MIAMI BEACH
APPROVED
DATE
BUILDING
ELECTRICAL
MECHANICAL
PUBLIC WORKS
ENGINEERING
3/6/87
3-16-87
VOID

SOIL STATEMENT

THE SOIL CONDITIONS AT THIS SITE ARE ADEQUATE TO SUPPORT THE DESIGN LOAD OF 2500 P.S.F. IF CONDITIONS OTHER THAN THIS IS ENCOUNTERED, THE CONSULTING ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH THE WORK

FLOTATION ANALYSIS

	FEET
WATER LEVEL ELEV.	8.0
POOL DEPTH	6.0
LOW POINT ELEV.	2.0
FLOOD CRITERIA	5.0
F.C. DEPTH ELEV.	4.0
LESS HYDRO VENT	2.0
HYDROSTATIC UPLIFT	2.0

ACTUAL TOP OF F.C. 5'-6"

POOL DATA

CAPACITY..... 175,000 GALS.
CIRCULATION..... 175 G.P.M.
PUMP..... 1½ H.P.

4" CONC. SLAB w/6x6-#10/10 WIRE MESH. — 6"x24" CONC. FTGS. w/4#5 CONT. — 6" CONC. BOTT. w/#5 @ 24" O.C. EACH WAY — GRAVEL — HYDROSTATIC VALVE — VOID

POOL SECTION

VARIES — DECK FINISH — ALL #5 VERT. BARS TO BE BENT IN 4" CONC. DECK, CAP TILE SET IN PLACE OF COPING SEE 2 # 3 @ TOP OF WALL. — LEDGE — #5 @ 12" O.C. EACH WAY IN TWO LAYERS

LEDGE DETAIL

ALL #5 VERT. BARS TO BE BENT IN 4" CONC. DECK, CAP TILE SET IN PLACE OF COPING SEE 2 # 3 @ TOP OF WALL. — VARIES — 6" TO 1'-0" — 24"x8" FTG. w/4 #5. — 6x6 #10/10 W. WIRE MESH — DEEP SHALLOW END — 3'-0" @ SHALLOW END — 5'-0" @ DEEP END — VOID — WATER EDGE — 4'-0" — DECK FINISH — #5 @ 12" O.C. — CORROSION RESIST CONDUIT — TOP OF FIXTURE — REMOVABLE UNDER WATER — 12" LIGHT NICHE — REINF. #5 @ 12" O.C. EACH WAY SIDES & BOTT.

TYP. WALL SECTION — UNDERWATER LAMP

AIR RELIEF — FILTER — WASTE TO LOW ELEVATION — FILTERED WATER TO POOL — SKIMMER AND WATER LINE — MAIN DRAIN — PUMP — MAIN AND LINT STRAINER

PIPING DIAGRAM

SEPARATE CIRCUIT FOR SPACE AND LIGHT — PUMP MOTOR — TO ELECT. PANEL — TIMING SWITCH OR MANUAL MOTOR STARTER OR MAGNETIC STARTER — JUNCTION BOX #8 GROUND WIRE — #8 GROUND WIRE TO ALL METAL EQUIPMENT — POOL LIGHT 100-300 W. 12V.

ELECTRICAL DIAGRAM

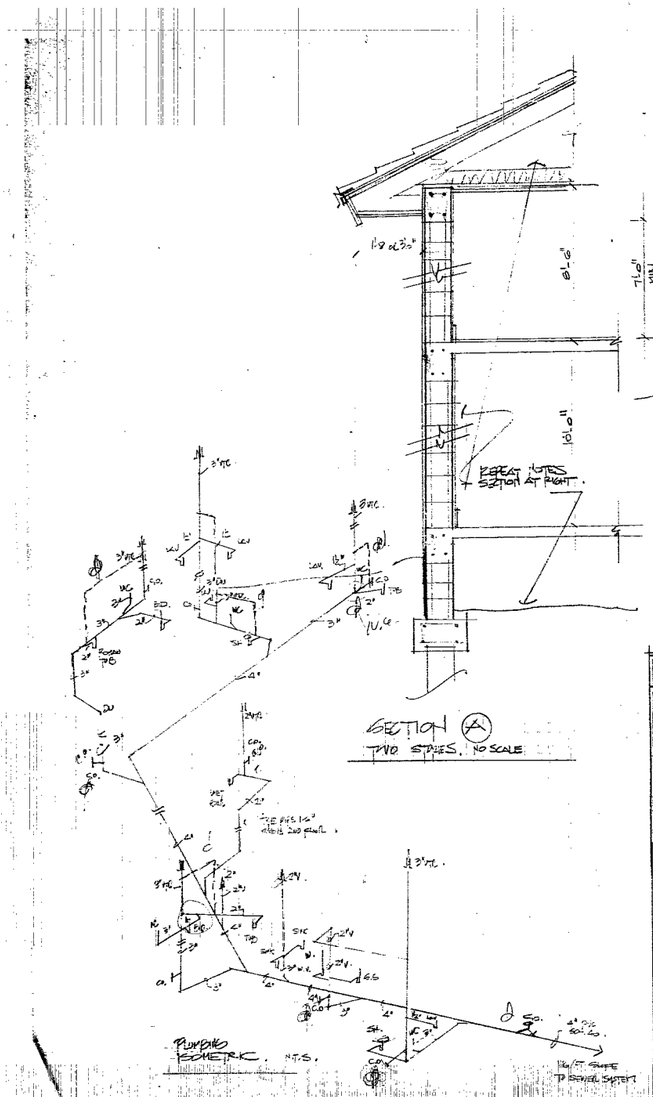
SEAL

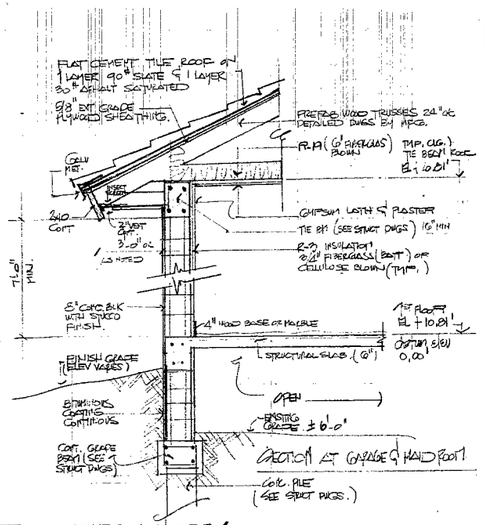
Drawn by: ANTHONY FLEECER

MANHAR K. JADAV P.E., L.S.
CONSULTING ENGINEER
7000 SW 62 AVE. SUITE A 221
MIAMI, FLA. 33143 PH. 661-0350 / 233-5288

DATE	SCALE	JOB NO.	DWG. NO.
2-87	AS NOTED	85-[illegible]	1 OF 2

90596





ELECTRICAL SCHEDULE

WIRING: #12/2 AWG/G & #12/3 AWG/G UNDERGROUND SERVICE 1/1200 AMPS MAIN DISC. SWITCHES,

CIRC. NO	DESCRIPTION	COND	WIRE	VOLTS	KW RATING	KW DEMAND	AMPS	POLES	NOTES
A1,3	AIR COND COMP #1	3/4	6	240	—	8.77	50	2	THHN
2,4	AIR HANDLING UNIT #1	3/4	6	240	—	11.37	60	2	THHN
5,6	WATER HEATER	1/2	10	240	4.5	—	30	2	
7,9	COOK TOP	3/4	8	240	8.0	—	40	2	
8,10	DOUBLE OVEN	1	6	240	12.0	—	50	2	
11,13	POOL PUMP	1/2	12	240	1.92	—	20	2	
12,14	SPRINKLER PUMP	1/2	12	120	1.92	—	20	2	
15,17	HEAT LAMPS	1/2	12	120	4.86	—	20 EA	1	
16	TRASH COMPACTOR	1/2	12	120	1.00	—	20	1	
19	DISPOSAL	1/2	12	120	.88	—	20	1	
20	DISHWASHER	1/2	12	120	1.47	—	20	1	
21	REFRIGERATOR	1/2	12	120	.72	—	20	1	
23-24	SMALL APPLIANCES	1/2	12	120	4.50	—	20	1	
25	REFRIGERATOR	1/2	12	120	1.60	—	20	1	
26-27	WATER HEATER	1/2	10	220	4.5	—	30	2	
28-29	RANGE (KITCHENETTE)	3/4	8	240	8.0	—	40	2	
30-32	SPARE								
33,35	AIR COND COMP # 2	3/4	6	240	—	8.77	50	2	THHN
34	AIR HANDLING UNIT # 2	3/4	6	240	—	11.37	60	2	THHN
36,37	LIGHTS & RECEPTACLES	1/2	12	120	15.75	—	15 EA	1	
14,15	G.F.I.	1/2	12	120	3.00	—	20	1	
16,17	SPOT & GARDEN LIGHTS	1/2	12	120	2.00	—	20	1	
18	OVERHEAD GARAGE DR.	1/2	12	120	1.72	—	20	1	
19	UTILITY ROOM	1/2	12	120	1.50	—	20	1	
20,22	DRYER	3/4	10	240	5.50	—	30	2	
23,24	BIRD BATH LIGHTS	1/2	12	120	2.00	—	20	1	
25,26	AC HAND	1/2	12	120	—	7.25	20	1	INCLUDED IN 5-12
27,31	LIGHTS & RECEPT. #								
32-34	AIR COND COMP # 3	3/4	6	240	—	8.77	50	2	THHN
35-36	AIR HANDLING UNIT #3	3/4	6	240	—	11.37	50	2	THHN

PANEL 'A' (CIRC 1-29) — PANEL 'B' (CIRC 1,29)

	PANEL 'A'	PANEL 'B'
FIRST 10KW AT 100%	10.00 KW	10.00 KW
REMAINING KW 40% (44.87)	17.95 KW	8.58 KW
NON DEMAND LOAD	11.37 KW	KW
	39.32	3.57
TOTAL LOAD 332.20 AMPS	170.95 AMPS 'A'	211.17 AMPS 'B' 230V

ATTENTION
ANY CHANGES MADE TO THE "PERMIT PLANS" MUST BE APPROVED BY ALL BUILDING, TRADES, AND ZONING SECTION.

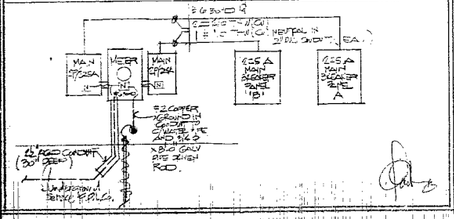
OFFICE COPY.

ELECTRICAL NOTES:

1- ALL WORK TO COMPLY WITH ALL LOCAL CODES AND IN ACCORDANCE WITH "NATIONAL ELECTRICAL CODE"
2- ALL BATHROOMS AND WET BAR, KITCHEN AND EXTERIOR LIGHTS AND RECEPTACLES SHALL BE GROUND FAULT INTERRUPTED (G.F.I.)
3- A/C CONDENSERS NON CONCURRENT LOADS WITH STRIP HEATERS.
4- 5005 # AT 3 WATTS/SQ. FT = 15.75 KW
5- SEE AC DWGS FOR UNIT SPECIFICATIONS.

CITY OF MIAMI BEACH APPROVED
DATE
BUILDING BY: 2-3-82
ZONING BY: 3-3-82
PLUMBING BY: 3/10/82
ELECTRICAL BY: 3-3-82
MECHANICAL BY: 3-5-82
FIRE PREVENTION
OTHERS

ELECTRICAL RISER:



DOOR SCHEDULE

MARK	SIZE	TYPE	MATERIALS	JAMB	THRESHOLD WEATHER STRIP	REMARKS
1	6'0"x8'0"x1¾"	SOLID CORE GARAGE	WOOD	WOOD	ALUM	PAINT GRADE ALIKE
2	6'0"x7'0"x1¾"	SOLID, OVERHEAD	WOOD	—	FIBERGLASS	
3	2'6"x6'8"x1¾"	SOLID CORE	WOOD	WOOD	ALUM.	ARCHITECT CHOOSE 20 MIN. FIRE RATED "CORE"
4	8'0"x6'8"x 5/8	SLIDING X-O	ALG TEMP GL	ALUM	YES	—
5	12'0"x6'8"x 5/8	SLIDING XXX	AL & TEMP GL	ALUM	YES	—
6	6'0"x6'8"x1¾"	FLUSH SWINGING	WOOD & GL	WOOD	—	—
7	4'0"x6'8"x1¾"	FLUSH SWINGING	WOOD	Hollow CORE WOOD	WOOD	½ UNDERCUT (16) LOUVERS
8	4'0"x6'8"x1¾"	FLUSH SWINGING	WOOD	Solid CORE WOOD	WOOD	ALUM —
9	16'0"x6'8"x 5/8	SLIDING OXXO	ALG TEMP GL	ALUM	YES	—
10	2'6"x6'8"x1¾"	SOLID CORE	WOOD	WOOD	ALUM	—
11	2'6"x6'8"x1¾	Hollow CORE	WOOD	WOOD	—	½ UNDERCUT (16) LOUVERS
12	2'6"x6'8"x1¾	Hollow CORE	WOOD	WOOD	—	PIVOT 180°
13	2'6"x6'8"x1¾"	BI FOLD	WOOD	WOOD	—	FULL LOUVERS
14	6'0"x6'8"x 5/8	BI FOLD	WOOD	WOOD	—	FULL LOUVERS
15	5'0"x6'8"x 5/8	BI-FOLD	WOOD	WOOD	—	FULL LOUVERS
16	8'0"x6'8"x 5/8	BI FOLD	WOOD	WOOD	—	FULL LOUVERS
17	10'0"x6'8"x 5/8	SLIDING XX	AL & TEMP GL	ALUM	YES	—
18	3'0"x6'8"x1¾	Hollow CORE	WOOD	WOOD	—	POCKET (1) WEATHER
19	6'0"x6'8"x1¾	FLUSH SWINGING	WOOD & GL	WOOD	ALUM	—
20	4'0"x6'8"x 5/8	BI FOLD	WOOD	WOOD		
21	2'0"x6'8"x 5/8	BI FOLD	WOOD	WOOD	—	FULL LOUVERS
22	4'0"x7'0"x1¾	Hollow CORE	WOOD	WOOD	—	POCKET (2) WEATHER
23	2'0"x6'8"x1¾	Hollow CORE	WOOD	WOOD	—	POCKET
24						

CARLOS A. MARTI ARCHITECT
3200 S.W. 8th STREET, SUITE 110
CORAL GABLES, FLORIDA - 33134

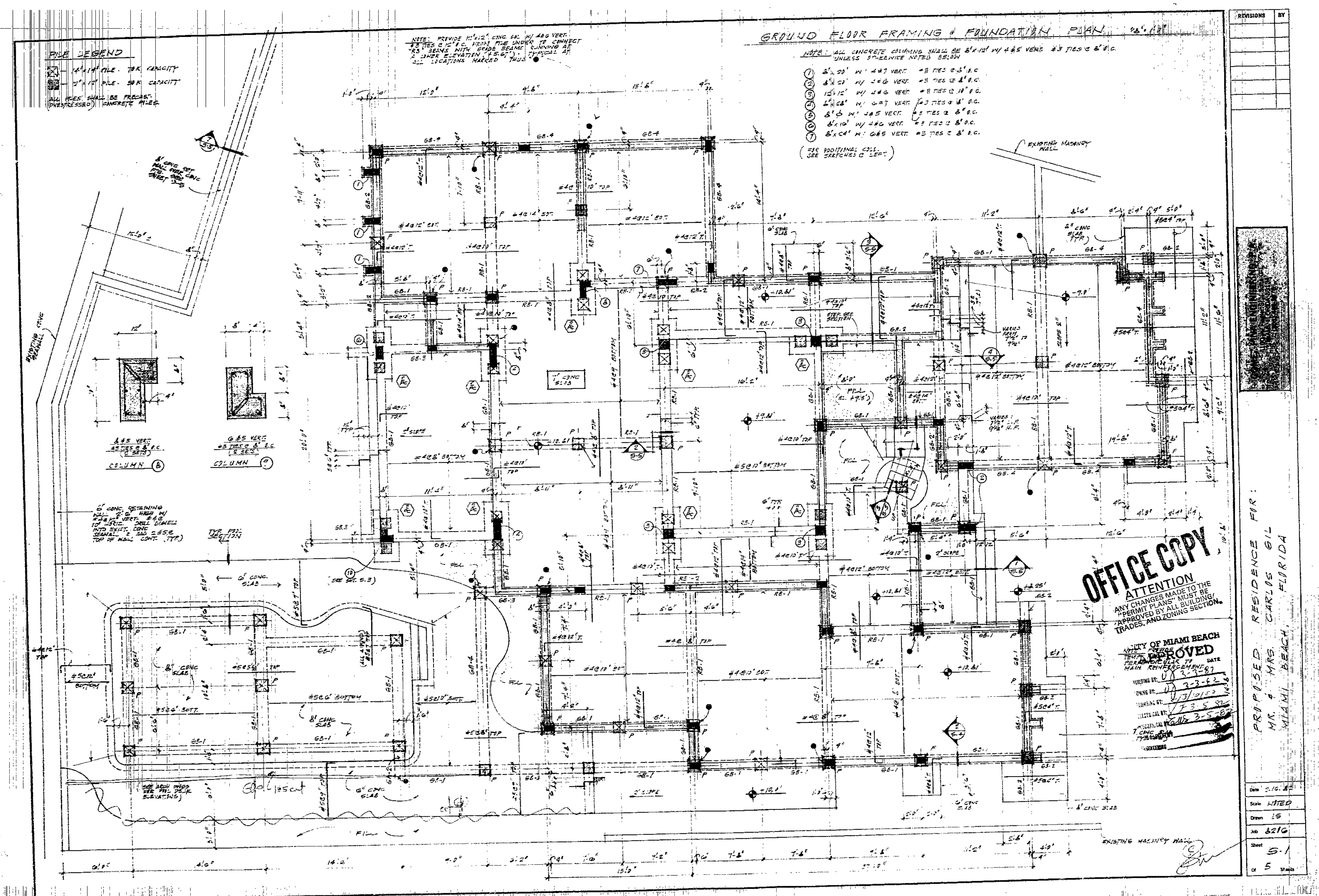
RESIDENCE FOR MR. & MRS. GL
4081 SAN MARINO DRIVE
MIAMI BEACH, FLORIDA

SCALE	NOTED
PLAN	
DATE	JAN 15, 82
REVISED	

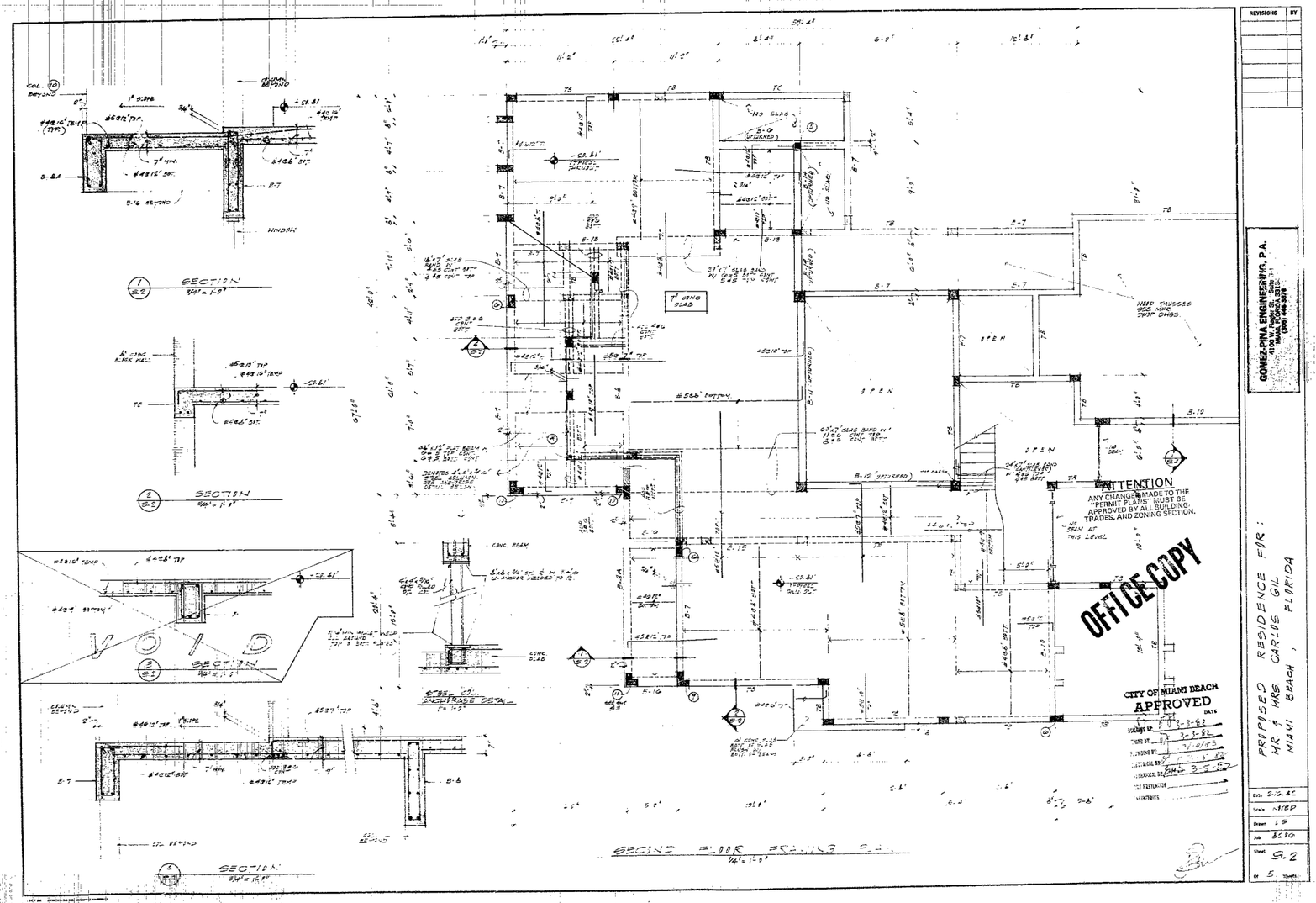
2801

A-6

90596

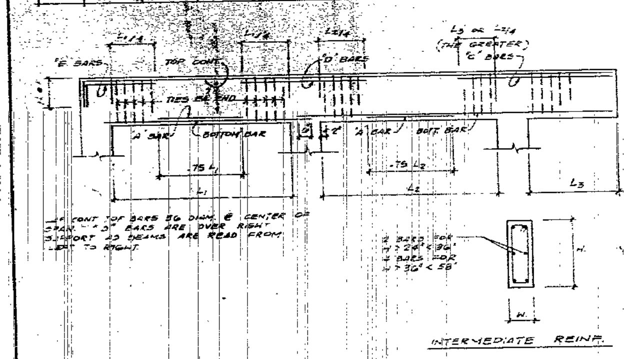

GROUND FLOOR FRAMING & FOUNDATION PLAN
PILE LEGEND
COLUMN
OFFICE COPY
ATTENTION
ANY CHANGES MADE TO THE "PERMIT PLANS" MUST BE APPROVED BY ALL BUILDING TRADES, AND ZONING SECTION.
CITY OF MIAMI BEACH
APPROVED
EXISTING MASONRY WALL
PROPOSED RESIDENCE FOR:
MR. & MRS. CARLOS GIL
MIAMI BEACH, FLORIDA
Date
Scale NOTED
Drawn
Job
Sheet S-1
Of 5 Sheets

97596

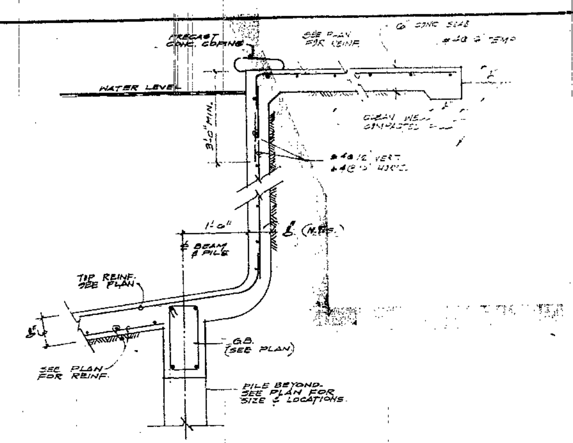

SECTION
SECTION
SECTION
SECTION
SECOND FLOOR FRAMING PLAN
VOID
OPEN
OPEN
ATTENTION
ANY CHANGES MADE TO THE "PERMIT PLANS" MUST BE APPROVED BY ALL BUILDING, TRADES, AND ZONING SECTION.
OFFICE COPY
CITY OF MIAMI BEACH
APPROVED
REVISIONS
BY
GOMEZ-PINA ENGINEERING, P.A.
PROPOSED RESIDENCE FOR:
MR. & MRS. CARLOS GIL
MIAMI BEACH, FLORIDA

90596

CONCRETE BEAM SCHEDULE								
MARK	SIZE W x H	REINFORCING				STIRRUPS		REMARKS
		BOTT	TOP			NO.	SPACING	
B-1	8"x16"	2#7	2#7			3	4/8, BAL @ 10"	
B-2	8"x18"	2#8	2#8			3	@ 12" THRU	
B-3	8"x18"	2#8	2#7			3	4/6, 6/8, BAL @ 10"	
B-4	12"x16"	2#8	3#7			3	5/8, BAL @ 10"	
B-5	8"x16"	2#6	2#6			3	@ 10" THRU	
B-6	12"x18"*	2#10	2#7			3	@ 8" THRU	* UPTURNED BEAM
B-7	8"x32"	2#7	2#7			3	@ 12" THRU	
B-8	8"x32"	2#10	2#9			3	10/4, 8/6, BAL @ 8"	
B-8A	10"x24"	2#9	2#9			3	4/10, BAL @ 12"	
B-9	10"x24"	2#9	2#9			3	6/6, 3/8, BAL @ 10"	
B-10	8"x28"	2#8	2#7			3	4/6, 3/8, BAL @ 10"	
B-11*	8"x36"	2#10	2#7			3	(DOUBLE TIES) 10/6, 6/8, 2/14, BAL @ 12"	* UPTURNED BEAM
B-12*	8"x30"	2#7	2#7			3	@ 12" THRU	* UPTURNED BEAM
B-13	8"x14"	2#6	2#6			3	@ 6" THRU	
B-14*	8"x18"	2#6	2#6			3	@ 8" THRU	*UPTURNED WHERE NOTED IN PLAN
B-16	10"x24"	2#9	3#9			3	@ 4" THRU CANT.	CANTIL. BEAM
B-17	8"x20"	2#5	2#6			3	@ 8" THRU CANT.	
B-18	12"x16"	2#8	2#7			3	6/6, 4/8, BAL @ 10"	
TB	8"x12" (MIN.)	2#5	2#5			—	PROVIDE #3 TIES @ 12" O.C. OVER OPENINGS 4'-0" OR WIDER	
GB-1	12"x24"	2#6	2#8			3	2/6, BAL @ 10"	
GB-2	12"x24"	2#8	2#7			3	@ 6" THRU	
GB-3	12"x24"	2#7	2#8			3	@ 8" THRU	
GB-4	12"x24"	2#9	2#7			3	10/4, 3/6, 2/8, BAL @ 12"	
RB-1	12"x20"	2#8	2#8			3	6/6, BAL @ 8"	
RB-2	12"x27"	2#8	2#8			3	(DOUBLE TIES) 7/6, BAL @ 8"	



TYPICAL BEAM BENDING DIAGRAM
N.T.S.



TYP. POOL & POOL DECK SECTION

STRUCTURAL NOTES:

ALL WORK SHALL COMPLY W/ THE SOUTH FLORIDA BUILDING CODE AND THE AMERICAN CONCRETE INSTITUTE ACI-318-77

ALL MANUFACTURERS OF REINFORCING STEEL & STRUCTURAL STEEL SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL BEFORE FABRICATION.

SOIL IS TAN SAND. ESTIMATED SOIL BEARING CAPACITY IS 1000 PSF BASED ON VISUAL INSPECTION.

ALL PILING SHALL BE DRIVEN TO THE FOLLOWING MINIMUM RESISTANCES:
12" x 12" PILES: 50 K (25 TONS)
14" x 14" PILES: 70 K (35 TONS)

ESTIMATED PILE LENGTH SHALL BE 20 FEET.

CONCRETE SHALL DEVELOP THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS.
PRECAST — 5000 PSI
ALL OTHERS — 3000 PSI

SLUMP OF CONCRETE SHALL NOT EXCEED 5 INCHES.

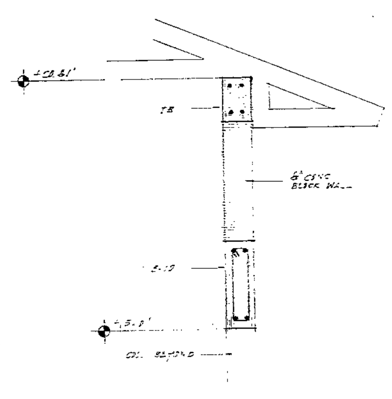
REINFORCING SHALL BE CLEAN, NEW BILLET STEEL CONFORMING WITH ASTM-A-615 GRADE 60. WELDED WIRE FABRIC SHALL COMPLY WITH ASTM-A-185.

ALL REINFORCING SHALL HAVE THE FOLLOWING MINIMUM CONCRETE COVERAGE:
SLABS POURED ON GROUND — 3 IN
GRADE BEAMS — 3 IN
BEAMS & COLUMNS — 1½ IN (INCLUDING "RB" BEAMS)
SUSPENDED STRUCT. SLABS — ¾ IN

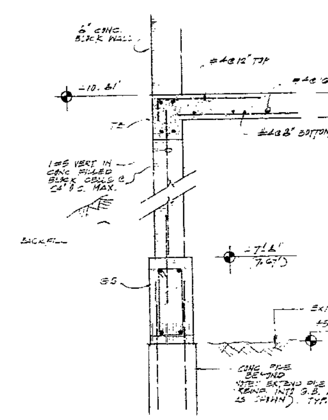
ALL STRUCTURAL LUMBER SHALL HAVE A STRENGTH OF F_b = 1200 PSI

STRUCTURAL STEEL COLUMNS SHALL COMPLY W/ ASTM-A-500

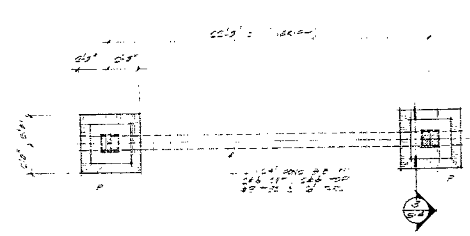
STRUCTURAL STEEL BOLTS SHALL CONFORM W/ ASTM-A-325



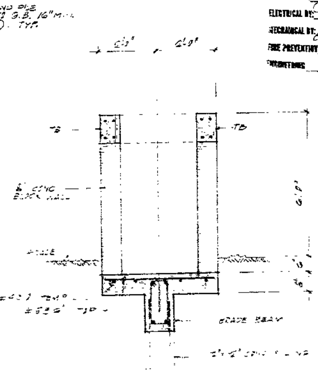
SECTION 1/S-4



SECTION 2/S-4



ENTRY GATE FOUNDATION PLAN



SECTION 3/S-4

ATTENTION
ANY CHANGES MADE TO THE "PERMIT PLANS" MUST BE APPROVED BY ALL BUILDING/ TRADES, AND ZONING SECTION.

OFFICE COPY

CITY OF MIAMI BEACH
APPROVED
DATE
BUILDING BY: 3-3-82
ZONING BY: 3-3-82
PLUMBING BY: 3/10/82
ELECTRICAL BY: 3-5-82
MECHANICAL BY: 3-5-82
FIRE PREVENTION
ENGINEERING

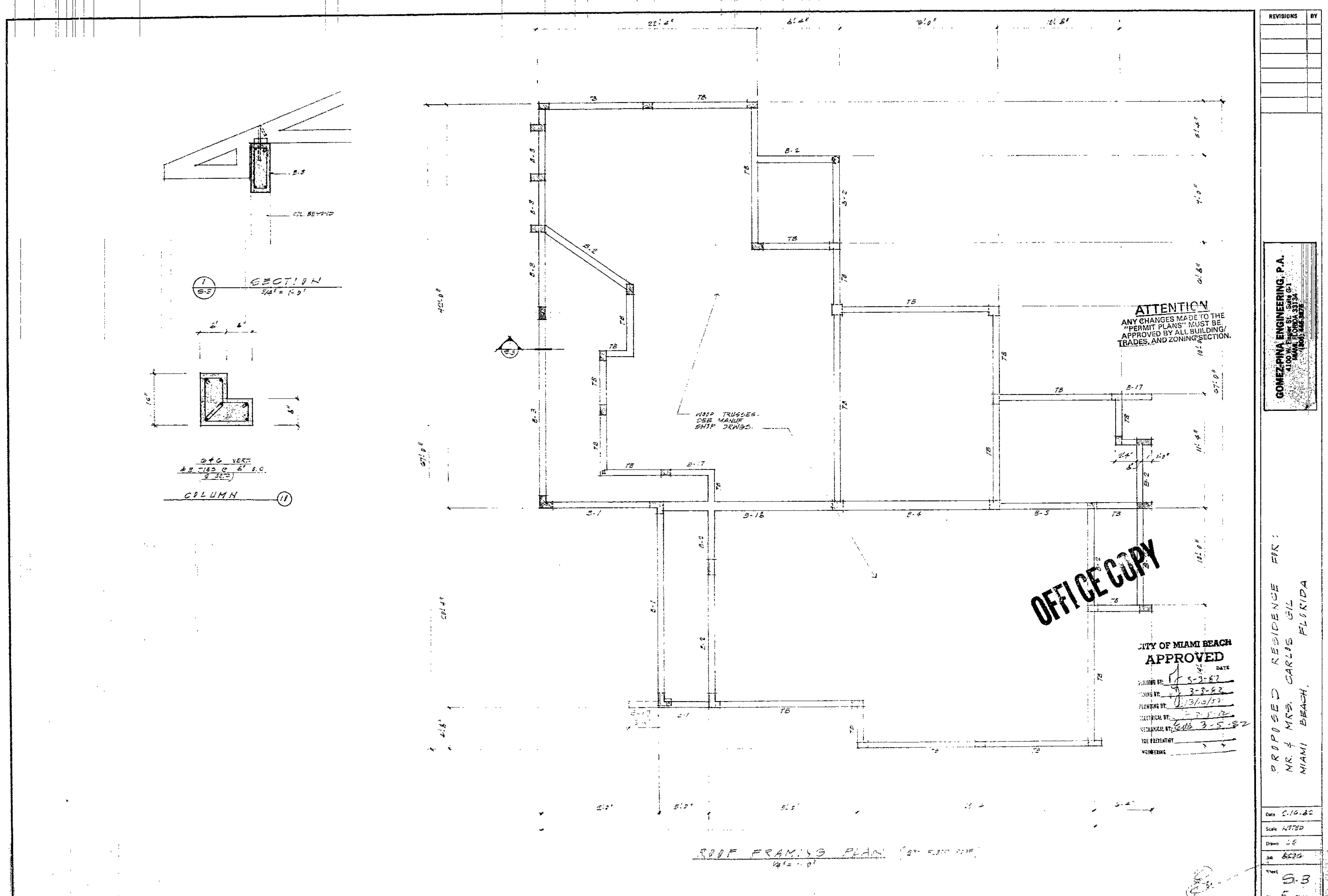
REVISIONS | BY

GOMEZ-PINA ENGINEERING, P.A.

PROPOSED RESIDENCE FOR:
MR. & MRS. CARLOS OIL
MIAMI BEACH, FLORIDA

Date	2-16-82
Scale	NOTED
Drawn	LG
Job	8216
Sheet	S-4
Of	5 Sheets

90596



SECTION
COLUMN
ROOF FRAMING PLAN
ATTENTION
ANY CHANGES MADE TO THE "PERMIT PLANS" MUST BE APPROVED BY ALL BUILDING/ TRADES, AND ZONING SECTION.
OFFICE COPY
CITY OF MIAMI BEACH
APPROVED
GOMEZ-PINA ENGINEERING, P.A.
PROPOSED RESIDENCE FOR:
MR. & MRS. CARLOS GIL
MIAMI BEACH, FLORIDA
REVISIONS
BY
S-3
5

90596

BR17011 02

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
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

CGI Windows and Doors, Inc.
10100 NW 25 Street
Miami, Fl. 33172

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 Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "238" Outswing Aluminum Casement Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. W98-100, titled "Series-238 Alum Outswing Casement Wdw. (L.M.I.)", sheets 1, 1.1, 2, 3, 4, 5, 5.1, 6 and 7 of 7, dated 12/04/98, with revision J dated 04/10/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

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

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

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, 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 revises **NOA# 14-0506.01** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**

MIAMI-DADE COUNTY APPROVED

9/9/15

NOA No. 15-0512.19
Expiration Date: October 26, 2018
Approval Date: September 17, 2015
Page 1

CGI Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under NOA's # 96-0417.03 and # 01-1002.03)
2. Drawing No. **W98-100**, titled "Series-238 Alum Outswing Casement Wdw. (L.M.I.)", sheets 1, 1.1, 2, 3, 4, 5, 5.1, 6 and 7 of 7, dated 12/04/98, with revision "J" dated 04/10/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   along with marked-up drawings and installation diagram of a series 7500 PVC fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. **CTLA-3056 WA**, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E.
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   along with marked-up drawings and installation diagram of a series 7400 PVC project out window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. **CTLA-3056 WB**, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E.
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   along with marked-up drawings and installation diagram of a series 238 aluminum fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. **CTLA-3056 WC**, dated 04/16/15, signed and sealed by Ramesh C. Patel, P.E.
4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   ~~4) Large Missile Impact Test per FBC, TAS 201-94~~
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
   along with marked-up drawings and installation diagram of a series 318 outswing aluminum casement window, prepared by Certified Testing Laboratories, Test Report No. **CTL-3009WB**, dated 03/24/14, signed and sealed by Ramesh C. Patel, P.E.
   (Submitted under previous NOA # 14-0506.01)

Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0512.19
Expiration Date: October 26, 2018
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B. TESTS (CONTINUED)

5. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked–up drawings and installation diagram of an aluminum casement window, prepared by American Test Lab of South Florida, Inc., Test Report No. **ATLSF-1109.01-12**, dated 11/20/12, signed and sealed by Henry Hattem, P.E.
(Submitted under NOA # 12-1220.14)

6. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked–up drawings and installation diagram of an aluminum casement window, prepared by Hurricane Testing Lab., Inc., Test Reports No. **HTL-0080-0301–07** for specimen **A** and **B**, and **HTL-0080-0905-07** for specimen **B** and **C**, dated 09/21/07 and 10/12/06, both signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA # 08-1010.02)

7. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum outswing casement window, prepared by Hurricane Engineering & Testing, Inc., Test Reports No. **HETI-08-2143**, **HETI-08-2144**, **HETI-08-4287** and **HETI-07-4298**, dated 06/27/08 and 07/17/08, all signed and sealed by Candido F. Font, P.E
(Submitted under NOA # 08-1010.02)

8. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum casement window, prepared by Hurricane Test Laboratory, Inc., Test Reports No. **HTL-0080-0303-96** and **HTL-0080-1107-98**, dated 03/06/96 and 11/10/98, both signed and sealed by Timothy S. Marshall, P.E.
(Submitted under NOA's # 96-0417.03 and # 01-1002.03)

Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0512.19
Expiration Date: October 26, 2018
Approval Date: September 17, 2015

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

9. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94

   along with marked-up drawings and installation diagram of an aluminum casement window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-1003** and **FTL-1041**, dated 10/14/94, both signed and sealed by Yamil Kuri, P.E.
   (Submitted under NOA # 96-0417.03)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-2010**, dated 4/24/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
   (Submitted under previous NOA # 14-0506.01)
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers"** dated 06/25/15, expiring on 07/04/18.
2. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their **"Butacite® PVB Glass Interlayer"** dated 04/25/15, expiring on 12/11/16.
3. Notice of Acceptance No. **14-0423.15** issued to **Eastman Chemical Company (MA)** for their **"Saflex CP - Saflex and Saflex HP Composite Glass Interlayers with PET Core"** dated 06/19/14, expiring on 12/11/18.
4. Notice of Acceptance No. **14-0423.17** issued to **Eastman Chemical Company (MA)** for their **"Saflex Clear and Color Glass Interlayers"** dated 06/19/14, expiring on 05/21/16.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0512.19
Expiration Date: October 26, 2018
Approval Date: September 17, 2015

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

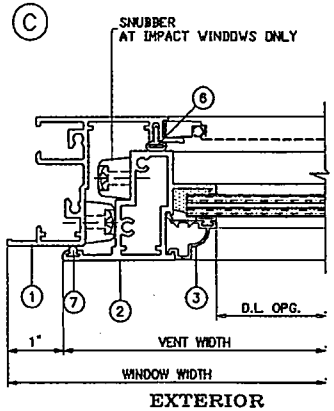
1. Statement letter of conformance, complying with **FBC- 5th Edition (2014)**, dated April 11, 2014, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
   (Submitted under previous NOA # 14-0506.01)
2. Proposal No. **13-1098** issued by the Product Control Section, dated October 02, 2013 and revised on February 24, 2014, signed by Manuel Perez, P.E.
   (Submitted under previous NOA # 14-0506.01)
3. Laboratory compliance letters for Test Reports No. **HTL-0080-0301-07** for specimen A and B and **HTL-0080-0905-07** for specimen B and C, issued by Hurricane Test Laboratory, Inc., dated 09/21/07 and 10/12/06, both signed and sealed by Vinu J. Abraham, P.E.
   (Submitted under NOA # 08-1010.02)
4. Laboratory compliances letters for Test Reports No. **HETI-08-2143, HETI–08–2144, HETI-08-4287** and **HETI-07-4298**, issued by Hurricane Engineering & Testing, Inc., dated 06/27/08 and 07/17/08, all signed and sealed by Candido F. Font, P.E.
   (Submitted under NOA # 08-1010.02)
5. Laboratory compliance letters for Test Reports No. **HTL-0080-0303-96** and **HTL-0080-1107-98**, issued by Hurricane Test Laboratory, Inc., dated 03/06/96 and 11/10/98, both signed and sealed by Timothy S. Marshall, P.E.
   (Submitted under NOA # 96-0417.03 and 01-1002.03)
6. Laboratory compliance letters for Test Reports No. **FTL-1003** and **FTL-1041**, issued by Fenestration Testing Laboratory, Inc., dated 10/14/94, both signed and sealed by Yamil Kuri, P.E.
   (Submitted under NOA # 96-0417.03)
7. Test Proposal for the qualification of ***Butacite®*** PVB glass interlayer by Kuraray America, Inc., as well as ***Duraseal®*** and ***Super Spacer® Standard*** warm-edge flexible insulating glass spacers, dated December 16, 2014, issued by RER, Product Control Section, signed by Jaime Gascon, P.E., Supervisor, Product Control Section.

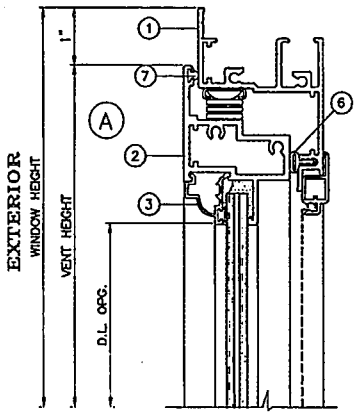
G. OTHERS

1. Notice of Acceptance No. **14-0506.01**, issued to CGI Windows & Doors, Inc. for their Series "238" Outswing Aluminum Casement Window - L.M.I., approved on 06/26/14 and expiring on 10/26/18.

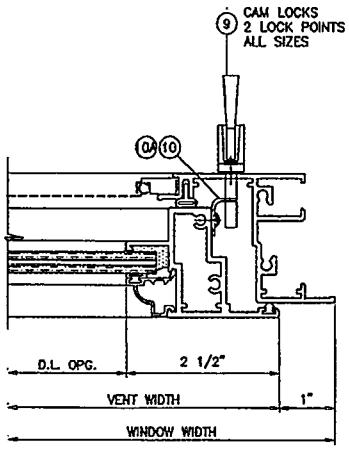
Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0512.19
Expiration Date: October 26, 2018
Approval Date: September 17, 2015

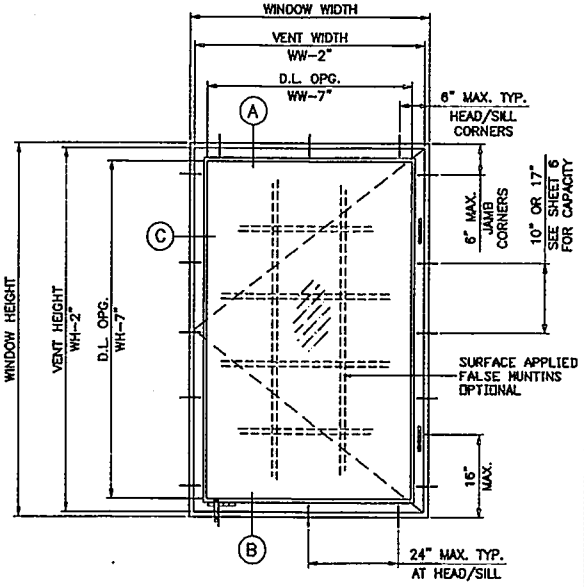
GENERAL WINDOW SECTIONS
FLANGE FRAME



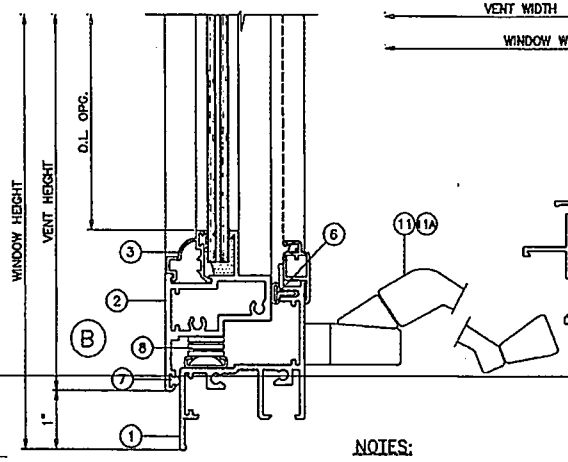


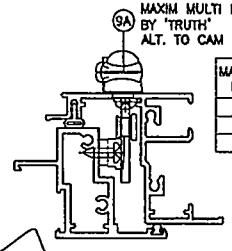
FOR GLASS TYPES,
REFER TO
SHEETS 3 AND 4.



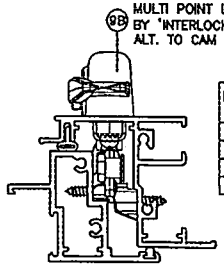


TYPICAL ELEVATION
(FLANGE FRAME)





MAX. WDW. HEIGHT	LOCK POINTS
42"	2
63"	3
84"	4



MAX. WDW. HEIGHT	LOCK POINTS
38"	2
56"	3
74"	4
84"	5

~~THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.~~
SHUTTERS ARE NOT REQUIRED.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 2 SEE CHARTS ON SHEETS 3 AND 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE/TYPE.

STEP 3 USING CHART ON SHEET 6 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 4 IF ALUMINUM BUCK SYSTEM IS USED USE CHART ON SHEET 7 TO DETERMINE CAPACITY.

STEP 5 THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

NOTES:

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

FOR MULLION/MULTIPLE UNITS, REFER TO SEPARATE CGI MULLION N.O.A.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
MAY 04 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0512.19
Expiration Date 03.26.2018
By
Miami-Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-6100 FAX. (305) 262-6978

COMP-ANL W98-100CGI

SERIES-238 ALUM OUTSWING CASEMENT WDW. (L.H.I.)

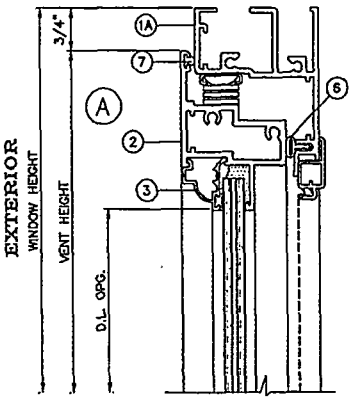
CGI WINDOWS & DOORS INC.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

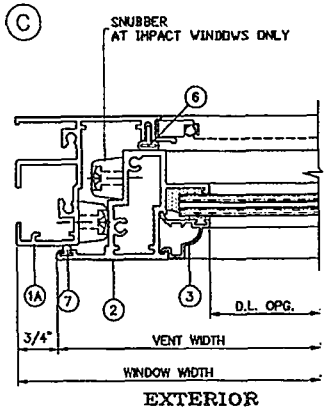
revisions:			
no	date	by	description
F	02.21.12		UPDATED TO 2010 FBC
G	12.06.12		LOCK OPTION ADDED
H	02.28.13		REV. PER RER COMMENTS
I	04.25.14		GENERAL REVISION
J	04.10.15		NO CHANGE THIS SHEET

date: 12-04-98
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

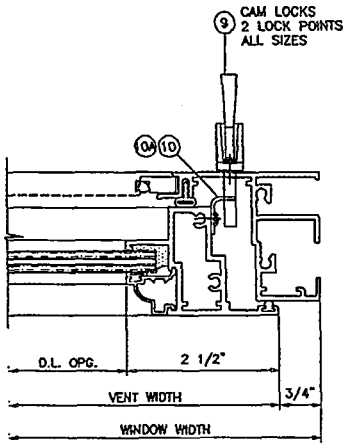
drawing no.
W98-100
sheet 1 of 7

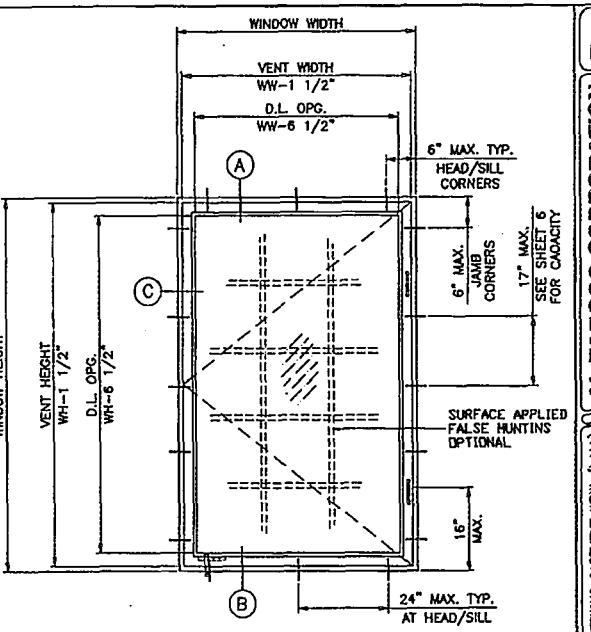
GENERAL WINDOW SECTIONS
EQUAL LEG FRAME



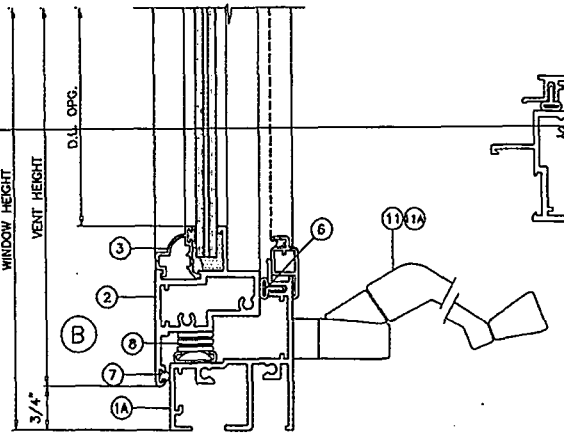


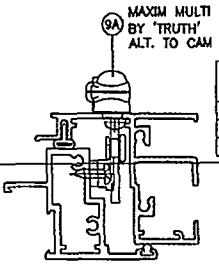
FOR GLASS TYPES,
REFER TO
SHEETS 3 AND 4.



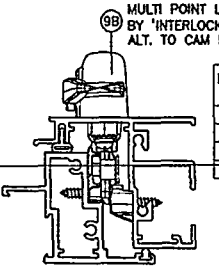


TYPICAL ELEVATION
(EQUAL LEG FRAME)





MAX. WDW. HEIGHT	LOCK POINTS
42"	2
63"	3
84"	4



MAX. WDW. HEIGHT	LOCK POINTS
38"	2
56"	3
74"	4
84"	5

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.H. 3538
MAY 04 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0512.19
Expiration Date 02.26.2018
By
Miami-Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
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revisions:			
NO	date	by	description
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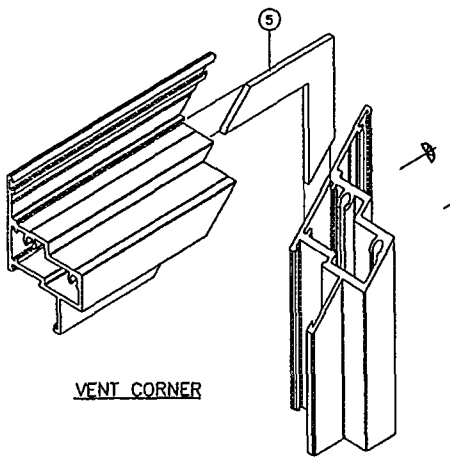
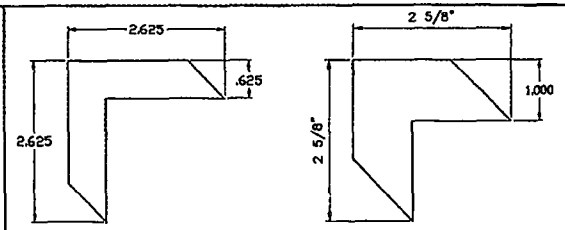
chk. by:

drawing no.
W98-100
sheet 1.1 of 7

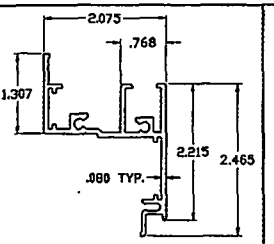


VENT CORNER

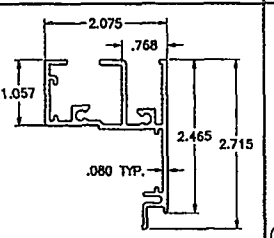


5 CORNER KEY .060 THICK ST. STEEL

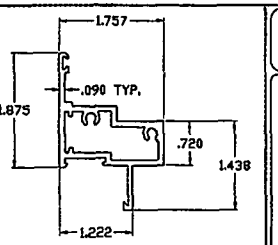
4 CORNER KEY .062 THICK ALUMINUM



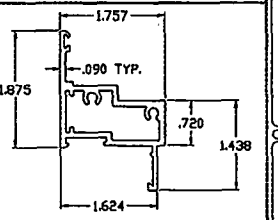
1 FLANGE FRAME



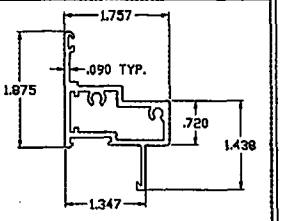
1A EQUAL LEG FRAME



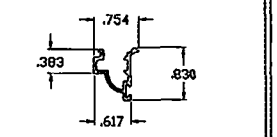
2 VENT (5/16" LAM. GLASS)



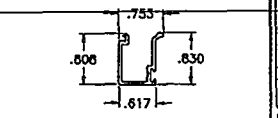
2B VENT (INSUL. LAM. GLASS)



2C VENT (7/16" LAM. GLASS)

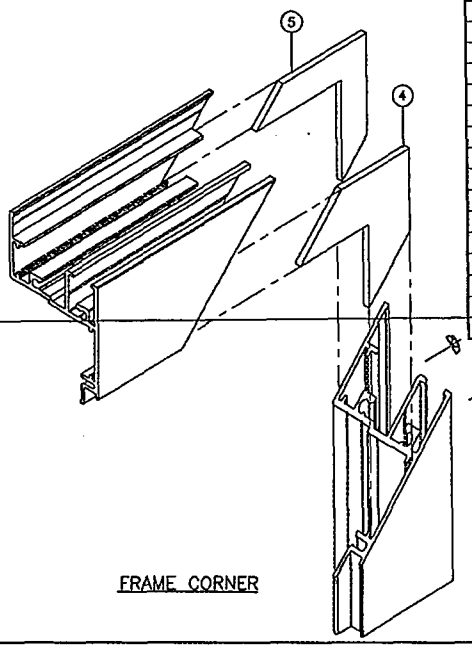


3 CGI-375: OGEE GLAZING STOP



3A CGI-396: SQUARE GLAZING STOP

ALL FRAME AND VENT CORNERS TO BE SEALED WITH GE SILPRUF OR EQUIV.



FRAME CORNER

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	CGI-373	4	FLANGE FRAME	6063-T6	INDALEX OR EQUIV.
1A	CGI-397	4	EQUAL LEG FRAME	6063-T6	INDALEX OR EQUIV.
2	CGI-378	4	VENT (5/16" LAM. GLASS)	6063-T6	INDALEX OR EQUIV.
2B	CGI-381	4	VENT (INSUL. LAM. GLASS)	6063-T6	INDALEX OR EQUIV.
2C	CGI-385	4	VENT (7/16" LAM. GLASS)	6063-T6	INDALEX OR EQUIV.
3	CGI-375	4	OGEE GLAZING BEAD	6063-T5	INDALEX OR EQUIV.
3A	CGI-396	4	SQUARE GLAZING BEAD	6063-T5	INDALEX OR EQUIV.
4	–	4	.060 THICK CORNER KEY	ALUMINUM	–
5	–	8	.060 THICK CORNER KEY	ST. STEEL	–
6	AP-425	AS REQD.	FRAME WEATHERSTRIPPING	–	SCHLEGEL APTUS
7	Q250-K-190	AS REQD.	VENT WEATHERSTRIPPING	–	SCHLEGEL Q-LON
8	35-10-00-101	2/ VENT	4 BAR HINGE, AT TOP AND BOTTOM	STEEL	TRUTH, ATTACHED W/ (6) #8 X 3/8" SS SMS
9	24-13-00-202	2/ VENT	FACE MOUNT LOCK	STEEL	TRUTH, ATTACHED W/ (2) #8 X 3/8" SMS
9A	–	1/ VENT	MULTI POINT LOCK	–	TRUTH
9B	–	1/ VENT	MULTI POINT LOCK	–	INTERLOCK
10	–	2/ VENT	.110 THICK LOCK KEEPER, AT FRAME JAMB FACING LOCK	STEEL	CGI, ATTACHED W/ (2) #10 X 3/8" SS SMS
11	–	1	OPERATOR (OPTIONAL)	STEEL	TRUTH, ATTACHED W/ (2) #8 X 3/8" SS SMS
11A	–	1	OPERATOR (OPTIONAL)	STEEL	INTERLOCK
12	30175	1	OPERATOR TRACK	STEEL	TRUTH, ATTACHED W/ (2) #8 X 3/8" SS SMS
13	–	2/ CORNER	FRAME AND VENT ASSEMBLY SCREWS	–	#10 X 1-1/4" SS SMS

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
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MAY 2015

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Expiration Date Oct. 16, 2018
By Manuel Perez
Miami-Dade Product Control

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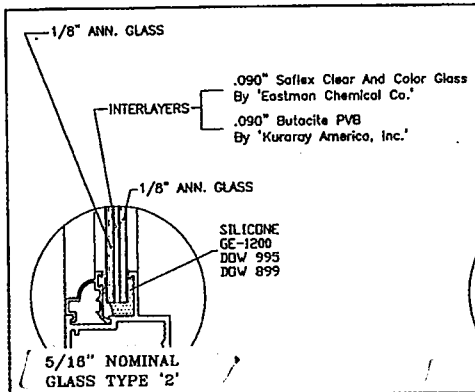
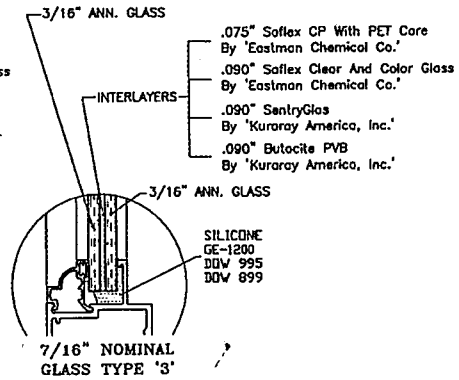
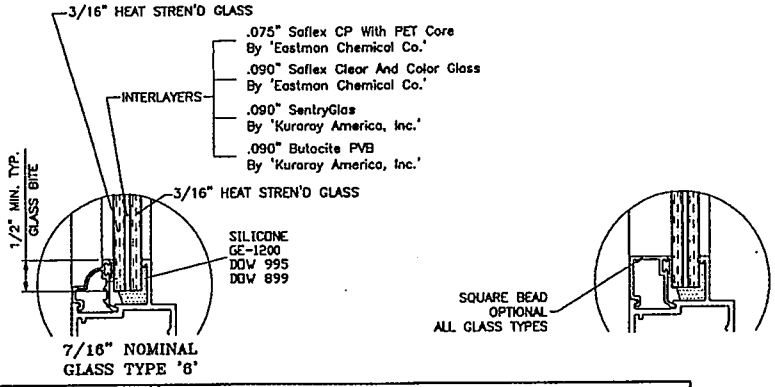
sheet 2 of 7







PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
NO SHUTTERS REQUIRED
REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS

WINDOW DIMS.		GLASS TYPE '2'		GLASS TYPE '3'		GLASS TYPE '6'	
WIDTH	HEIGHT	EXT. (+)	INT. (−)	EXT. (+)	INT. (−)	EXT. (+)	INT. (−)
20"	36"	110.0	194.3	110.0	195.0	110.0	195.0
24"		110.0	161.9	110.0	195.0	110.0	195.0
28"		110.0	138.8	110.0	195.0	110.0	195.0
30"		110.0	129.5	110.0	195.0	110.0	195.0
32"		110.0	121.4	110.0	195.0	110.0	195.0
36"		107.9	107.9	110.0	195.0	110.0	195.0
40"		97.1	97.1	110.0	195.0	110.0	120.0
42"		92.5	92.5	110.0	120.0	60.0	60.0
20"	42"	110.0	166.5	110.0	195.0	110.0	195.0
24"		110.0	138.8	110.0	195.0	110.0	195.0
28"		110.0	118.9	110.0	195.0	110.0	195.0
30"		110.0	111.0	110.0	195.0	110.0	195.0
32"		104.1	104.1	110.0	195.0	110.0	120.0
36"		92.5	92.5	110.0	120.0	110.0	120.0
40"		83.3	83.3	110.0	120.0	110.0	120.0
42"		79.3	79.3	110.0	120.0	60.0	60.0
20"	48"	110.0	145.7	110.0	195.0	110.0	195.0
24"		110.0	121.4	110.0	195.0	110.0	195.0
28"		103.8	104.1	110.0	195.0	110.0	120.0
30"		97.1	97.1	110.0	195.0	110.0	120.0
32"		91.1	91.1	110.0	120.0	110.0	120.0
36"		80.9	80.9	110.0	120.0	110.0	120.0
40"		72.8	72.8	110.0	120.0	110.0	120.0
42"		69.4	69.4	110.0	120.0	60.0	60.0
20"	54"	110.0	129.5	110.0	195.0	110.0	195.0
24"		98.0	107.9	110.0	195.0	110.0	195.0
28"		88.2	92.5	110.0	120.0	110.0	120.0
30"		84.4	86.3	110.0	120.0	110.0	120.0
32"		80.9	80.9	110.0	120.0	110.0	120.0
36"		71.9	71.9	110.0	120.0	110.0	120.0
40"		64.8	64.8	110.0	120.0	110.0	120.0
42"		61.7	61.7	110.0	120.0	60.0	60.0

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
NO SHUTTERS REQUIRED
REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS

WINDOW DIMS.		GLASS TYPE '2'		GLASS TYPE '3'		GLASS TYPE '6'	
WIDTH	HEIGHT	EXT. (+)	INT. (−)	EXT. (+)	INT. (−)	EXT. (+)	INT. (−)
20"	60"	98.8	112.6	110.0	195.0	110.0	195.0
24"		85.8	95.4	110.0	195.0	110.0	120.0
28"		76.7	83.3	110.0	120.0	110.0	120.0
30"		73.2	77.7	110.0	120.0	110.0	120.0
32"		70.2	72.8	110.0	120.0	110.0	120.0
36"		64.8	64.8	110.0	120.0	110.0	120.0
40"		–	–	60.0	60.0	60.0	60.0
42"		–	–	60.0	60.0	60.0	60.0
20"	66"	86.7	86.7	110.0	195.0	110.0	195.0
24"		73.4	73.4	110.0	120.0	110.0	120.0
28"		64.2	64.2	110.0	120.0	110.0	120.0
30"		60.6	60.6	110.0	120.0	110.0	120.0
32"		57.5	57.5	110.0	120.0	110.0	120.0
36"		–	–	60.0	60.0	60.0	60.0
40"		–	–	60.0	60.0	60.0	60.0
20"	72"	66.4	66.4	110.0	195.0	110.0	120.0
24"		56.1	56.1	110.0	120.0	110.0	120.0
28"		48.9	48.9	110.0	120.0	110.0	120.0
30"		46.0	46.0	110.0	120.0	110.0	120.0
32"		43.6	43.6	110.0	120.0	110.0	120.0
36"		–	–	60.0	60.0	60.0	60.0
32"	76"	–	–	60.0	60.0	60.0	60.0
36"		–	–	60.0	60.0	60.0	60.0
20"	78"	52.0	52.0	110.0	120.0	110.0	120.0
24"		43.8	43.8	110.0	120.0	110.0	120.0
28"		38.1	38.1	110.0	120.0	110.0	120.0
30"		–	–	110.0	120.0	60.0	60.0
32"		–	–	60.0	60.0	60.0	60.0
20"	84"	41.5	41.5	110.0	120.0	110.0	120.0
24"		34.9	34.9	110.0	120.0	110.0	120.0
28"		–	–	110.0	120.0	54.5	54.5
30"		–	–	51.2	51.2	51.2	51.2
32"		–	–	48.3	48.3	48.3	48.3

NOTE:
LOAD/AREA LIMITS
FOR +110.0, −120.0 PSF = 16.34 SQ. FT.
+110.0, −195.0 PSF = 10.00 SQ. FT.

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NO SHUTTERS REQUIRED
REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS

WINDOW DIMS.		GLASS TYPE '2'		GLASS TYPE '3'		GLASS TYPE '6'	
WIDTH	HEIGHT	EXT. (+)	INT. (−)	EXT. (+)	INT. (−)	EXT. (+)	INT. (−)
19-1/8"	26"	110.0	195.0	110.0	195.0	110.0	195.0
26-1/2"		110.0	195.0	110.0	195.0	110.0	195.0
37"		110.0	145.4	110.0	195.0	110.0	195.0
42"		110.0	128.1	110.0	195.0 *	110.0	195.0 *
19-1/8"	38-3/8"	110.0	190.6	110.0	195.0	110.0	195.0
26-1/2"		110.0	137.5	110.0	195.0	110.0	195.0
37"		98.5	98.5	110.0	194.5	110.0	120.0
42"		86.8	86.8	110.0	120.0	110.0	120.0
19-1/8"	50-5/8"	110.0	144.5	110.0	195.0	110.0	195.0
26-1/2"		99.7	104.3	110.0	195.0	110.0	195.0
37"		74.7	74.7	110.0	120.0	110.0	120.0
42"		65.8	65.8	110.0	120.0	110.0	120.0
19-1/8"	63"	96.7	104.2	110.0	195.0	110.0	195.0
26-1/2"		74.9	77.9	110.0	120.0	110.0	120.0
37"		60.0	60.0	110.0	120.0	110.0	120.0
42"		–	–	60.0	60.0	60.0	60.0
19-1/8"	74-1/4"	63.0	63.0	110.0	195.0	110.0	120.0
26-1/2"		45.6	45.6	110.0	120.0	110.0	120.0
37"		–	–	59.8	59.8	59.8	59.8
37"	77"	–	–	56.3	56.3	56.3	56.3 **

* LIMIT MAX. LOADS TO 171.0 PSF WHEN MULTI POINT LOCK BY 'INETRLOCK' (98) IS USED

** SIZE 37" X 77" APPLICABLE TO FLANGE FRAMES ONLY SEE SHEET 1

Engr: JAVAD AHMAD CML FLA. PE # 70582 C.A.N. 3538
MAY 04 2015

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 15-0512.19
Expiration Date Oct. 16, 2018
By Manuel Perez
Miami-Dade Product Control

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SERIES-238 ALUM OUTSWING CASEMENT WDW. (L.M.I.)

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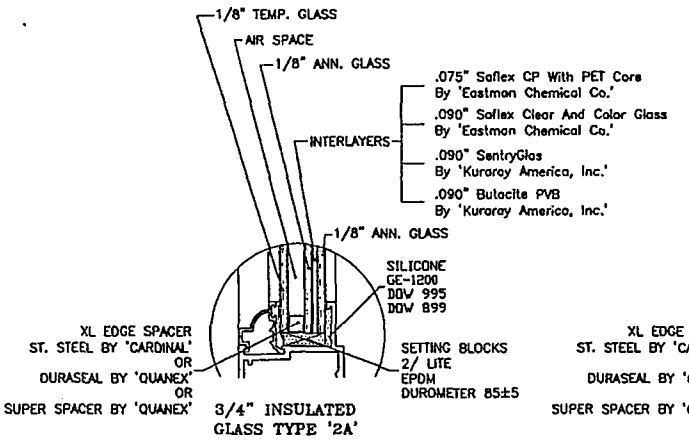
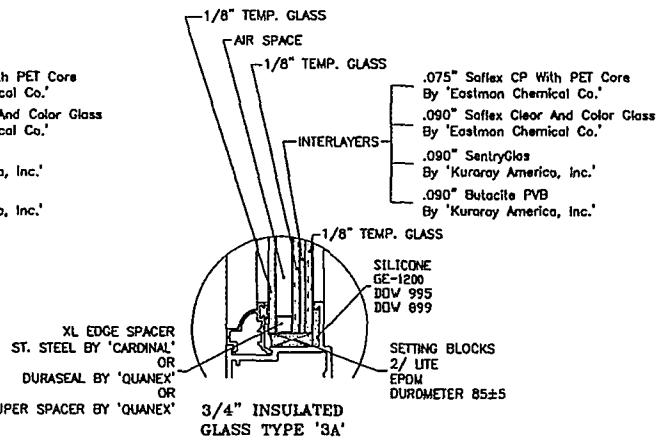
dr. by: HAMID
chk. by:

drawing no.
W98-100

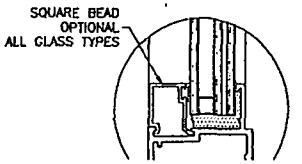
sheet 3 of 7



3/4" INSULATED GLASS TYPE '2A'



3/4" INSULATED GLASS TYPE '3A'



PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
NO SHUTTERS REQUIRED
REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS

WINDOW DIMS.		GLASS TYPE '2A'		GLASS TYPE '3A'	
WIDTH	HEIGHT	EXT. (+)	INT. (−)	EXT. (+)	INT. (−)
20"	36"	110.0	194.3	110.0	195.0
24"		110.0	161.9	110.0	195.0
28"		110.0	138.8	110.0	195.0
30"		110.0	129.5	110.0	195.0
32"		110.0	121.4	110.0	195.0
36"		107.9	107.9	110.0	195.0
40"		97.1	97.1	110.0	120.0
42"		92.5	92.5	110.0	120.0
20"	42"	110.0	166.5	110.0	195.0
24"		110.0	138.8	110.0	195.0
28"		110.0	118.9	110.0	195.0
30"		110.0	111.0	110.0	195.0
32"		104.1	104.1	110.0	120.0
36"		92.5	92.5	110.0	120.0
40"		83.3	83.3	110.0	120.0
42"		79.3	79.3	110.0	120.0
20"	48"	110.0	145.7	110.0	195.0
24"		110.0	121.4	110.0	195.0
28"		104.1	104.1	110.0	120.0
30"		97.1	97.1	110.0	120.0
32"		91.1	91.1	110.0	120.0
36"		80.9	80.9	110.0	120.0
40"		72.8	72.8	110.0	120.0
42"		69.4	69.4	110.0	120.0
20"	54"	110.0	129.5	110.0	195.0
24"		98.0	107.9	110.0	195.0
28"		92.5	92.5	110.0	120.0
30"		84.4	86.3	110.0	120.0
32"		80.9	80.9	110.0	120.0
36"		71.9	71.9	110.0	120.0
40"		64.8	64.8	110.0	120.0
42"		61.7	61.7	110.0	120.0

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
NO SHUTTERS REQUIRED
REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS

WINDOW DIMS.		GLASS TYPE '2A'		GLASS TYPE '3A'	
WIDTH	HEIGHT	EXT. (+)	INT. (−)	EXT. (+)	INT. (−)
20"	60"	98.8	112.6	110.0	195.0
24"		85.8	95.4	110.0	120.0
28"		76.7	83.3	110.0	120.0
30"		73.2	77.7	110.0	120.0
32"		70.2	72.8	110.0	120.0
36"		64.8	64.8	110.0	120.0
40"		60.0	60.0	–	–
42"		60.0	60.0	–	–
20"	66"	86.7	86.7	110.0	169.0
24"		73.4	73.4	110.0	120.0
28"		64.2	64.2	110.0	120.0
30"		60.6	60.6	110.0	116.2
32"		57.5	57.5	110.0	112.2
36"		60.0	60.0	–	–
40"		60.0	60.0	–	–
20"	72"	66.4	66.4	110.0	120.0
24"		56.1	56.1	109.3	109.3
28"		48.9	48.9	95.3	95.3
30"		46.0	46.0	89.8	89.8
32"		43.6	43.6	85.0	85.0
36"		60.0	60.0	–	–
32"	76"	60.0	60.0	–	–
36"		60.0	60.0	–	–
20"	78"	52.0	52.0	101.3	101.3
24"		43.8	43.8	85.4	85.4
28"		38.1	38.1	74.3	74.3
32"		60.0	60.0	–	–
20"	84"	41.5	41.5	80.8	80.8
24"		34.9	34.9	68.0	68.0
28"		54.5	54.5	–	–
30"		51.2	51.2	–	–
32"		48.3	48.3	–	–

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
NO SHUTTERS REQUIRED
REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS

WINDOW DIMS.		GLASS TYPE '2A'		GLASS TYPE '3A'	
WIDTH	HEIGHT	EXT. (+)	INT. (−)	EXT. (+)	INT. (−)
19-1/8"	26"	110.0	195.0	110.0	195.0
26-1/2"		110.0	203.0	110.0	195.0
37"		110.0	145.4	110.0	195.0
42"		110.0	128.1	110.0	195.0 *
19-1/8"	38-3/8"	110.0	190.6	110.0	195.0
26-1/2"		110.0	137.5	110.0	195.0
37"		98.5	98.5	110.0	120.0
42"		86.8	86.8	110.0	120.0
19-1/8"	50-5/8"	110.0	144.5	110.0	195.0
26-1/2"		99.7	104.3	110.0	195.0
37"		74.7	74.7	110.0	120.0
42"		65.8	65.8	110.0	120.0
19-1/8"	63"	96.7	104.2	110.0	195.0
26-1/2"		74.9	77.9	110.0	120.0
37"		60.0	60.0	110.0	117.0
42"		60.0	60.0	–	–
19-1/8"	74-1/4"	63.0	63.0	110.0	120.0
26-1/2"		46.6	46.6	90.9	90.9
37"		59.8	59.8	–	–
37"	77"	56.3	56.3	–	–

* LIMIT MAX. LOADS TO 171.0 PSF WHEN MULTI POINT LOCK BY 'INETRLOCK' (98) IS USED

** SIZE 37" X 77" APPLICABLE TO FLANGE FRAMES ONLY SEE SHEET 1

NOTE:
LOAD/AREA LIMITS
FOR +110.0, −120.0 PSF = 16.34 SQ. FT.
+110.0, −195.0 PSF = 10.00 SQ. FT.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
C.A.N. 3538

MAR 04 2015

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 15-0512.19
Expiration Date 02.26.2018
By Manuel Perez
Miami-Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL W98-10006

SERIES-238 ALUM OUTSWING CASEMENT WDW. (L.M.I.)

CGI WINDOWS & DOORS INC.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

revisions:			
no	date	by	description
F	02.21.12		UPDATED TO 2010 FBC
G	12.06.12		LOCK OPTION ADDED
H	02.28.13		REV. PER RER COMMENTS
I	04.25.14		GENERAL REVISION
J	04.10.15		INTERLAYER & SPACER REV.

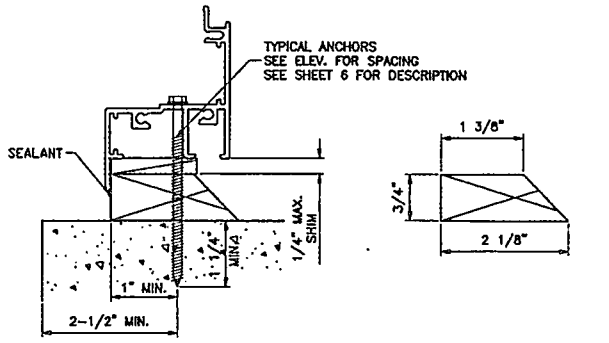
date: 12-04-98
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W98-100

sheet 4 of 7

INSTALLATION CONDITIONS FLANGE FRAME (APPLIES TO ALL FOUR SIDES)

FOR ANCHOR PERFORMANCE VALUES SEE SHEET 6

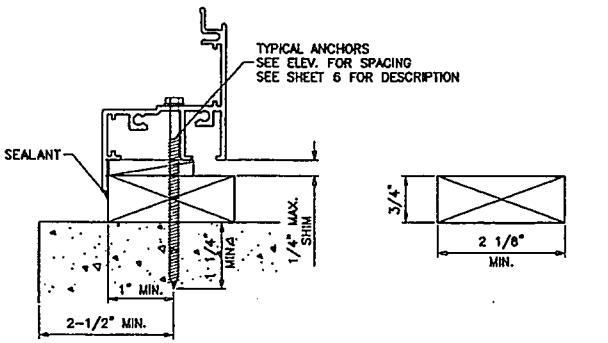


INSTALLATION TYPE '1'

WOOD BUCK TYPE '1'

MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

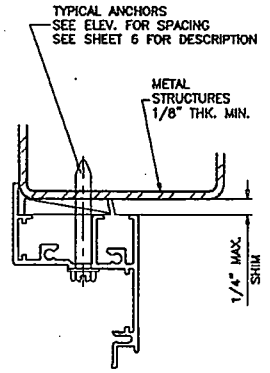


INSTALLATION TYPE '2'

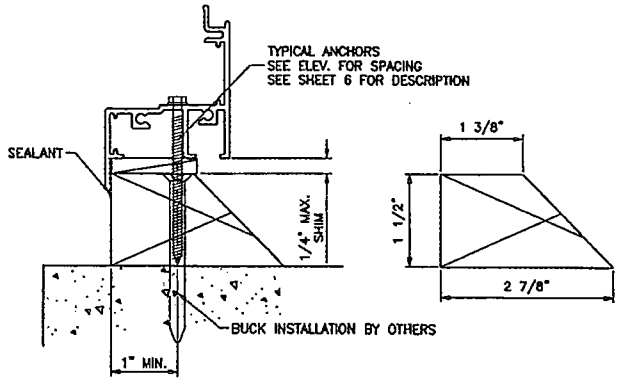
WOOD BUCK TYPE '2'

MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



ATTACHMENT TO
METAL STRUCTURES

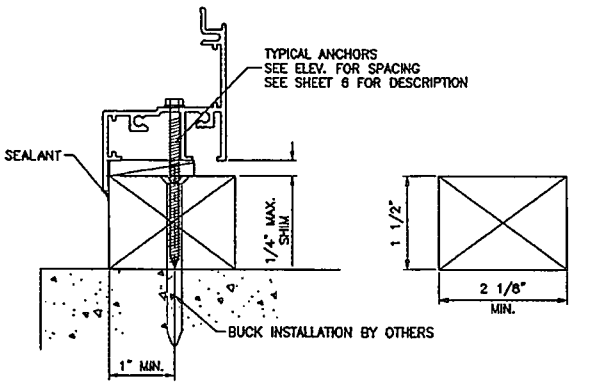


INSTALLATION TYPE '3'

WOOD BUCK TYPE '3'

MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

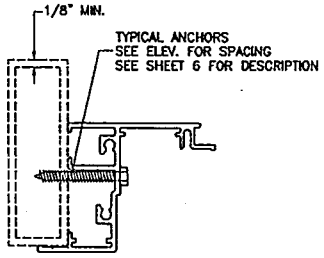


INSTALLATION TYPE '4'

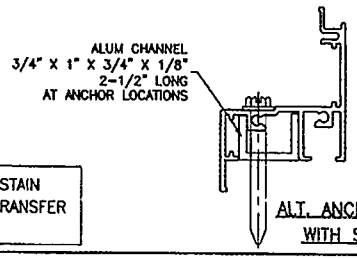
WOOD BUCK TYPE '4'

MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



ATTACHMENT TO
APPROVED MULLIONS



ALT. ANCHOR LOCATION
WITH SHEAR CLIP

WOOD BUCKS NOT BY CGI CORP., MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

MAY 19 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0512.19
Expiration Date Oct. 26, 2018
By Manuel Perez
Miami-Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8300 FAX. (305) 262-6978
COMP-ANL\W98-100CGI

SERIES-238 ALUM OUTSWING CASEMENT WDW. (L.M.I.)

CGI WINDOWS & DOORS INC.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

revisions:		
no	date	by description
F	02.21.12	NO CHANGE THIS SHEET
G	12.06.12	NO CHANGE THIS SHEET
H	02.28.13	REV. PER RER COMMENTS
I	04.25.14	NO CHANGE THIS SHEET
J	04.10.15	NO CHANGE THIS SHEET

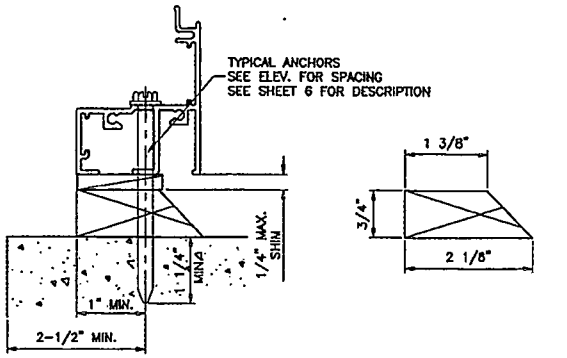
date: 12-04-98
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W98-100

sheet 5 of 7

INSTALLATION CONDITIONS EQUAL LEG FRAME (APPLIES TO ALL FOUR SIDES)

FOR ANCHOR PERFORMANCE VALUES SEE SHEET 6

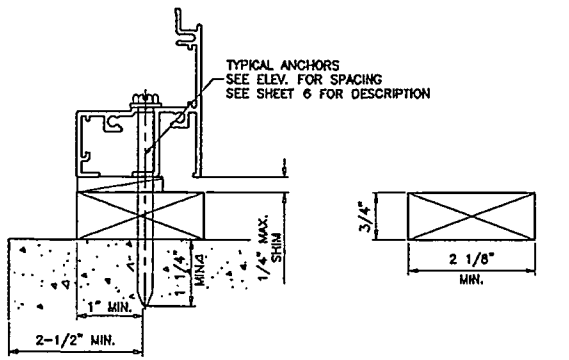


INSTALLATION TYPE '1'

WOOD BUCK TYPE '1'

MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

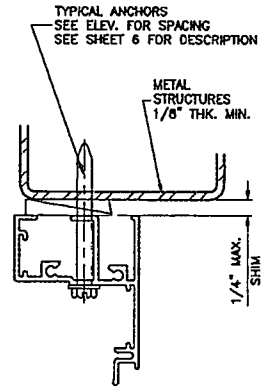


INSTALLATION TYPE '2'

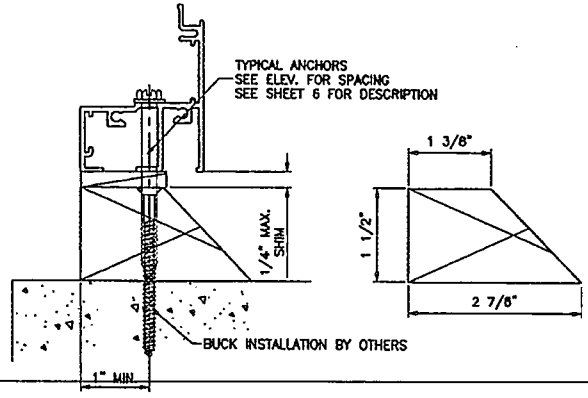
WOOD BUCK TYPE '2'

MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



ATTACHMENT TO
METAL STRUCTURES

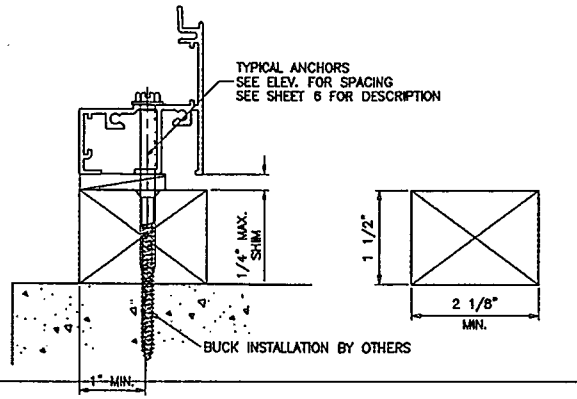


INSTALLATION TYPE '3'

WOOD BUCK TYPE '3'

MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

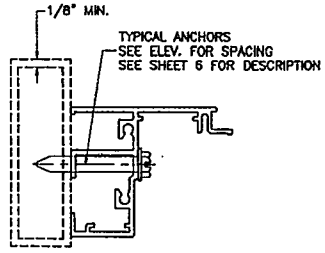


INSTALLATION TYPE '4'

WOOD BUCK TYPE '4'

MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



ATTACHMENT TO
APPROVED MULLIONS

WOOD BUCKS NOT BY CGI CORP., MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

MAY 04 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0512.19
Expiration Date 03.26.2018
By
Miami Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W98-100CH

SERIES-238 ALUM OUTSWING CASEMENT WDW. (L.M.I.)

CGI WINDOWS & DOORS INC.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

revisions:		
no	date	by description
F	02.21.12	NO CHANGE THIS SHEET
G	12.06.12	NO CHANGE THIS SHEET
H	02.28.13	REV. PER RER COMMENTS
I	04.25.14	NO CHANGE THIS SHEET
J	04.10.15	NO CHANGE THIS SHEET

date: 12-04-98
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W98-100

sheet 5.1 of 7

PERFORMANCE VALUES OF INSTALLATION ANCHORS

REFER TO SHEET 5 FOR DETAILS

WINDOW DIMS.		ANCHORS W/O SHEAR CLIP		ANCHORS WITH SHEAR CLIP	
		AT 17" O.C.	AT 10" O.C.	AT 17" O.C.	AT 10" O.C.
WIDTH	HEIGHT	EXT.(+)/INT.(−)	EXT.(+)/INT.(−)	EXT.(+)/INT.(−)	EXT.(+)/INT.(−)
20"	36"	195.0	195.0	154.8	195.0
24"		195.0	195.0	129.0	172.0
28"		192.9	195.0	110.6	147.4
30"		180.0	195.0	103.2	137.6
32"		168.8	195.0	96.8	129.0
36"		150.0	195.0	86.0	114.7
40"		135.0	180.0	77.4	103.2
42"		128.6	171.4	73.7	98.3
20"	42"	195.0	195.0	132.7	176.9
24"		192.9	195.0	110.6	147.4
28"		165.3	195.0	94.8	126.4
30"		154.3	195.0	88.5	117.9
32"		144.6	192.9	82.9	110.6
36"		128.6	171.4	73.7	98.3
40"		115.7	154.3	66.3	88.5
42"		110.2	146.9	63.2	84.2
20"	48"	195.0	195.0	154.8	193.5
24"		195.0	195.0	129.0	161.3
28"		192.9	195.0	110.6	138.2
30"		180.0	195.0	103.2	129.0
32"		168.8	195.0	96.8	120.9
36"		150.0	187.5	86.0	107.5
40"		135.0	168.8	77.4	96.8
42"		128.6	160.7	73.7	92.1
20"	54"	195.0	195.0	137.6	195.0
24"		195.0	195.0	114.7	172.0
28"		171.4	195.0	98.3	147.4
30"		160.0	195.0	91.7	137.6
32"		150.0	195.0	86.0	129.0
36"		133.3	195.0	76.4	114.7
40"		120.0	180.0	68.8	103.2
42"		114.3	171.4	65.5	98.3
20"	60"	195.0	195.0	123.8	185.8
24"		180.0	195.0	103.2	154.8
28"		154.3	195.0	88.5	132.7
30"		144.0	195.0	82.6	123.8
32"		135.0	195.0	77.4	116.1
36"		120.0	180.0	68.8	103.2
40"		108.0	162.0	61.9	92.9
42"		102.9	154.3	59.0	88.5
20"	66"	195.0	195.0	140.7	195.0
24"		195.0	195.0	117.3	164.2
28"		175.3	195.0	100.5	140.7
30"		163.6	195.0	93.8	131.3
32"		153.4	195.0	88.0	123.1
36"		136.4	190.9	78.2	109.5
40"		122.7	171.8	70.4	98.5
20"	72"	195.0	195.0	129.0	180.6
24"		187.5	195.0	107.5	150.5
28"		160.7	195.0	92.1	129.0
30"		150.0	195.0	86.0	120.4
32"		140.6	195.0	80.6	112.9
36"		125.0	175.0	71.7	100.3

PERFORMANCE VALUES OF INSTALLATION ANCHORS

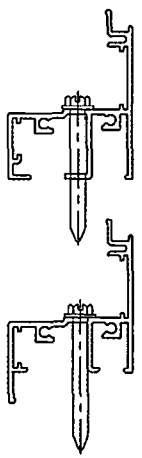
REFER TO SHEET 5 FOR DETAILS

WINDOW DIMS.		ANCHORS W/O SHEAR CLIP		ANCHORS WITH SHEAR CLIP	
		AT 17" O.C.	AT 10" O.C.	AT 17" O.C.	AT 10" O.C.
WIDTH	HEIGHT	EXT.(+)/INT.(−)	EXT.(+)/INT.(−)	EXT.(+)/INT.(−)	EXT.(+)/INT.(−)
32"	76"	133.2	195.0	76.4	122.2
36"		118.4	189.5	67.9	108.6
20"	78"	195.0	195.0	119.1	190.5
24"		173.1	195.0	99.2	158.8
28"		148.4	195.0	85.1	136.1
30"		138.5	195.0	79.4	127.0
32"		129.8	195.0	74.4	119.1
20"	84"	195.0	195.0	132.7	195.0
24"		195.0	195.0	110.6	165.9
28"		165.3	195.0	94.8	142.2
32"		154.3	195.0	88.5	132.7

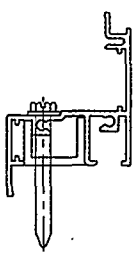
PERFORMANCE VALUES OF INSTALLATION ANCHORS

REFER TO SHEET 5 FOR DETAILS

WINDOW DIMS.		ANCHORS W/O SHEAR CLIP		ANCHORS WITH SHEAR CLIP	
		AT 17" O.C.	AT 10" O.C.	AT 17" O.C.	AT 10" O.C.
WIDTH	HEIGHT	EXT.(+)/INT.(−)	EXT.(+)/INT.(−)	EXT.(+)/INT.(−)	EXT.(+)/INT.(−)
19-1/8"	26"	195.0	195.0	149.4	195.0
26-1/2"		195.0	195.0	107.8	161.8
37"		195.0	195.0	77.2	115.9
19-1/8"	38-3/8"	195.0	195.0	151.9	195.0
26-1/2"		191.2	195.0	109.6	146.1
37"		136.9	182.6	78.5	104.7
19-1/8"	50-5/8"	195.0	195.0	153.5	191.9
26-1/2"		193.2	195.0	110.8	138.5
37"		138.4	173.0	79.3	99.2
19-1/8"	63"	195.0	195.0	123.3	195.0
26-1/2"		155.3	195.0	89.0	155.8
37"		111.2	194.6	63.8	111.8
42"		98.0	171.4	56.2	98.3
19-1/8"	74-1/4"	195.0	195.0	130.8	195.0
26-1/2"		164.7	195.0	94.4	151.1
37"		117.9	188.6	67.6	108.1



ANCHORS W/O SHEAR CLIP



ANCHORS WITH SHEAR CLIP

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. KWIK-CON II BY 'HILTI' (Fu=163 KSI, Fy=157 KSI)

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = .090")
INTO METAL STRUCTURES
STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

Engr. JAVAD AHMAD
CML
FLA. PE # 70592
C.A.H. 3538

MAY 04 2015

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 15-0512.19
Expiration Date Oct. 26, 2018
By Manuel Perez
Miami-Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 254-6100 FAX (305) 252-6978
COMP-ANL\W98-100CGI

SERIES-238 ALUM OUTSWING CASEMENT WDW. (L.M.I.)

CGI WINDOWS & DOORS INC.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX. (305) 593-6592

revisions:

no	date	by	description
F	02.21.12		NO CHANGE THIS SHEET
G	12.06.12		CHART REV.
H	02.28.13		REV. PER RER COMMENTS
I	04.23.14		GENERAL REVISION
J	04.10.15		NO CHANGE THIS SHEET

date: 12-04-98
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W98-100

sheet 6 of 7

ALUMINUM BUCK FRAMING DETAILS

REFER TO SHEETS 3 THRU 6 FOR WINDOW CAPACITIES
USE LOWER APPLICABLE VALUES.

PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS

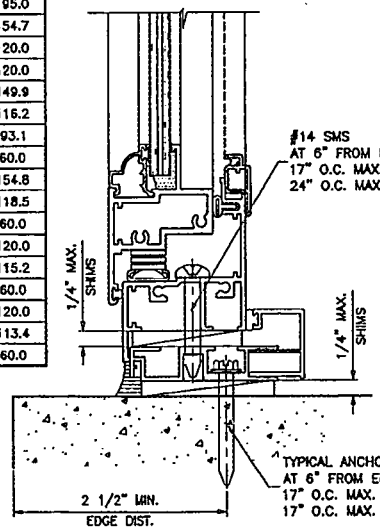
WINDOW DIMS. WIDTH	WINDOW DIMS. HEIGHT	EXT.(+)	INT.(−)
20"	36"	110.0	195.0
24"		110.0	195.0
28"		110.0	188.5
30"		110.0	182.4
32"		110.0	179.5
36"		110.0	177.3
40"		105.8	145.1
42"		97.0	120.0
20"	42"	110.0	179.5
24"		110.0	159.6
28"		106.9	146.6
30"		103.5	141.9
32"		100.7	138.1
36"		97.0	120.0
40"		95.2	120.0
42"		95.0	120.0
20"	48"	110.0	195.0
24"		110.0	177.3
28"		110.0	160.9
30"		110.0	154.8
32"		109.1	120.0
36"		103.5	120.0
40"		99.8	120.0
42"		95.0	120.0
20"	54"	110.0	174.1
24"		110.0	152.0
28"		99.8	120.0
30"		95.5	120.0
32"		91.9	120.0
36"		86.2	118.2
40"		82.2	112.7
42"		80.6	110.5
20"	60"	110.0	153.2
24"		97.0	133.0
28"		86.8	119.0
30"		82.8	113.5
32"		79.4	108.8
36"		73.9	101.3
40"		60.0	60.0
42"		60.0	60.0
20"	66"	110.0	171.0
24"		107.8	120.0
28"		95.9	120.0
30"		91.3	120.0
32"		87.3	119.7
36"		60.0	60.0
40"		60.0	60.0
20"	72"	110.0	154.5
24"		97.0	120.0
28"		88.0	117.9
30"		81.7	112.0
32"		77.9	106.9
36"		60.0	60.0

PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS

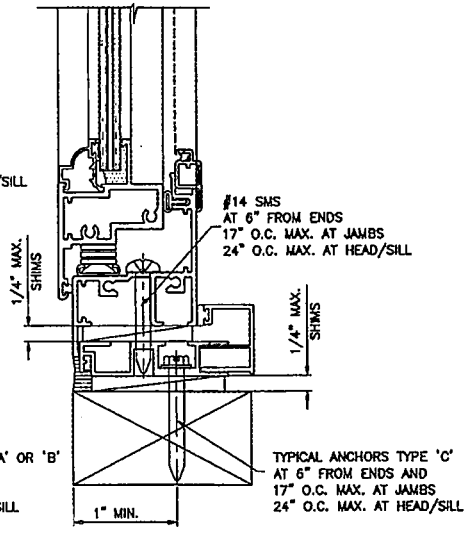
WINDOW DIMS. WIDTH	WINDOW DIMS. HEIGHT	EXT.(+)	INT.(−)
20"	76"	105.8	120.0
24"		90.9	120.0
28"		80.5	110.3
30"		76.3	104.7
32"		60.0	60.0
36"		60.0	60.0
20"	78"	102.7	120.0
24"		88.2	120.0
28"		77.9	120.0
30"		73.9	101.3
32"		60.0	60.0
20"	84"	110.0	120.0
24"		97.0	120.0
28"		85.5	117.3
30"		60.0	60.0
32"		60.0	60.0

PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS

WINDOW DIMS. WIDTH	WINDOW DIMS. HEIGHT	EXT.(+)	INT.(−)
19-1/8"	26"	110.0	195.0
26-1/2"		110.0	195.0
37"		110.0	184.2
42"		110.0	152.4
19-1/8"	38-3/8"	110.0	195.0
26-1/2"		110.0	172.6
37"		110.0	156.3
42"		95.7	120.0
19-1/8"	50-5/8"	110.0	195.0
26-1/2"		110.0	154.7
37"		94.0	120.0
42"		89.8	120.0
19-1/8"	63"	109.3	149.9
26-1/2"		84.8	116.2
37"		67.9	93.1
42"		60.0	60.0
19-1/8"	74-1/4"	110.0	154.8
26-1/2"		86.4	118.5
37"		60.0	60.0
19-1/8"	76"	109.9	120.0
26-1/2"		84.0	115.2
37"		60.0	60.0
19-1/8"	77"	108.3	120.0
26-1/2"		82.7	113.4
37"		60.0	60.0



INSTALLATION TYPE '5'



INSTALLATION TYPE '6'
2BY WOOD BUCK OR WOOD STRUCTURES

TYPICAL INSTALLATION DETAIL ON ALL FOUR SIDES/USING ALUMINUM BUCK SYSTEM

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

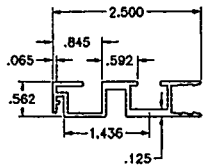
A – 1/4" DIA. KWIK-CON II BY 'HILTI' (Fu=163 KSI, Fy=157 KSI)
DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

B – 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONC. OR FILLED BLOCK
1-1/4" MIN. EMBED INTO CONCRETE
2-1/4" MIN. EMBED INTO GROUT FILLED BLOCKS

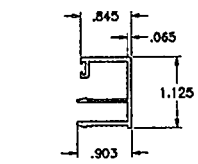
C – #14 SMS (GRADE 2 CRS)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

TYPICAL EDGE DISTANCE
INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



ALUMINUM BUCK
6063-T6



OPTIONAL COVER
6063-T6

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
C.A.H. 3538

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0512.19
Expiration Date Oct. 26, 2018
By Manuel Perez
Miami Dade Product Control

MAY 04 2015

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 2848100 FAX. (305) 262-8978
COMP-ANL\W98-100CGI

SERIES-238 ALUM OUTSWING CASEMENT WDW. (L.M.I.)

CGI WINDOWS & DOORS INC.
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX. (305) 593-6592

revisions: no	date	by	description
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J	04.10.15		NO CHANGE THIS SHEET

date: 12-04-98
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no. W98-100

sheet 7 of 7

BRN0110Z

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
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

CGI Windows and Doors, Inc.
10100 NW 25th Street
Miami, FL 33172

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 Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "238" Aluminum Project Out Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. **W99-04**, titled "Series–238 Alum. Project Out Window", sheets 1, 1.1, 2, 3, 4, 5, 5.1, 6 and 7 of 7, dated 01/21/99, with revision I dated 04/10/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami–Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

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

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

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, 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 **revises NOA# 14-0915.08** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**

MIAMI-DADE COUNTY APPROVED

9/10/15

NOA No. 15-0512.21
Expiration Date: October 31, 2018
Approval Date: September 17, 2015

CGI Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under NOA's No. 96-0717.04 and 99-0329.02)
2. Drawing No. **W99-04**, titled "Series-238 Alum. Project Out Window", sheets 1, 1.1, 2, 3, 4, 5, 5.1, 6 and 7 of 7, dated 01/21/99, with revision I dated 04/10/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   along with marked-up drawings and installation diagram of a series 7500 PVC fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. **CTLA-3056 WA**, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E.
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   along with marked-up drawings and installation diagram of a series 7400 PVC project out window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. **CTLA-3056 WB**, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E.
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   along with marked-up drawings and installation diagram of a series 238 aluminum fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. **CTLA-3056 WC**, dated 04/16/15, signed and sealed by Ramesh C. Patel, P.E.
4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Forced Entry Test, per FBC 2411.3.2.1, TAS 202-94
   along with marked-up drawings and installation diagram of aluminum casement, project-out and fixed windows, prepared by Hurricane Test Laboratory, Inc., Test Reports No. **HTL-0080-0301-07** and **HTL-0080-0905-07**, dated 08/08/08, all signed and sealed by Vinu J. Abraham, P.E.
   (Submitted under NOA No. 08-1010.03)

Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0512.21
Expiration Date: October 31, 2018
Approval Date: September 17, 2015

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

5. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94,
   2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   along with marked-up drawings and installation diagram of an aluminum project-out window, prepared by Hurricane Engineering & Testing, Inc. Reports No. **HETI-08-2143, HETI-08-2144, HETI-07-4298** and **HETI-07-4287**, dated 06/27/08 and 07/17/08, all signed and sealed by Candido F. Font, P.E.
   (Submitted under NOA No. 08-1010.03)
6. Test reports on: 1) Air Infiltration Test, per SFBC, PA 202—94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Forced Entry Test, per FBC 2411.3.2.1, TAS 202-94
   along with marked-up drawings and installation diagram of aluminum casement, project-out and fixed windows, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-1055** and **FTL-1019**, dated 10/18/94, signed and sealed by Yamil Kuri, P.E.
   (Submitted under NOA No. 96-0717.04)
7. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94,
   2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   along with marked-up drawings and installation diagram of an aluminum casement window, prepared by Hurricane Test Laboratory, Inc., Test Reports No. **HTL-0080-0303-96** and **HTL-0080-1107-98**, dated 09/08/96 and 12/23/98 respectively, all signed and sealed by Timothy S. Marshall, P.E.
   (Submitted under NOA's No. 96-0717.04 and 99-0329.02)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014)**, dated 09/03/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
   (Submitted under previous NOA No. 14-0915.08)
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

Manuel Perez

Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0512.21
Expiration Date: October 31, 2018
Approval Date: September 17, 2015

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers"** dated 06/25/15, expiring on 07/04/18.
2. Notice of Acceptance No. **14-0423.15** issued to **Eastman Chemical Company (MA)** for their **"Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core"** dated 06/19/14, expiring on 12/11/18.
3. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their **"Butacite® PVB Glass Interlayer"** dated 04/25/15, expiring on 12/11/16.
4. Notice of Acceptance No. **14-0423.17** issued to **Eastman Chemical Company (MA)** for their **"Saflex Clear and Color Glass Interlayers"** dated 06/19/14, expiring on 05/21/16.

F. STATEMENTS

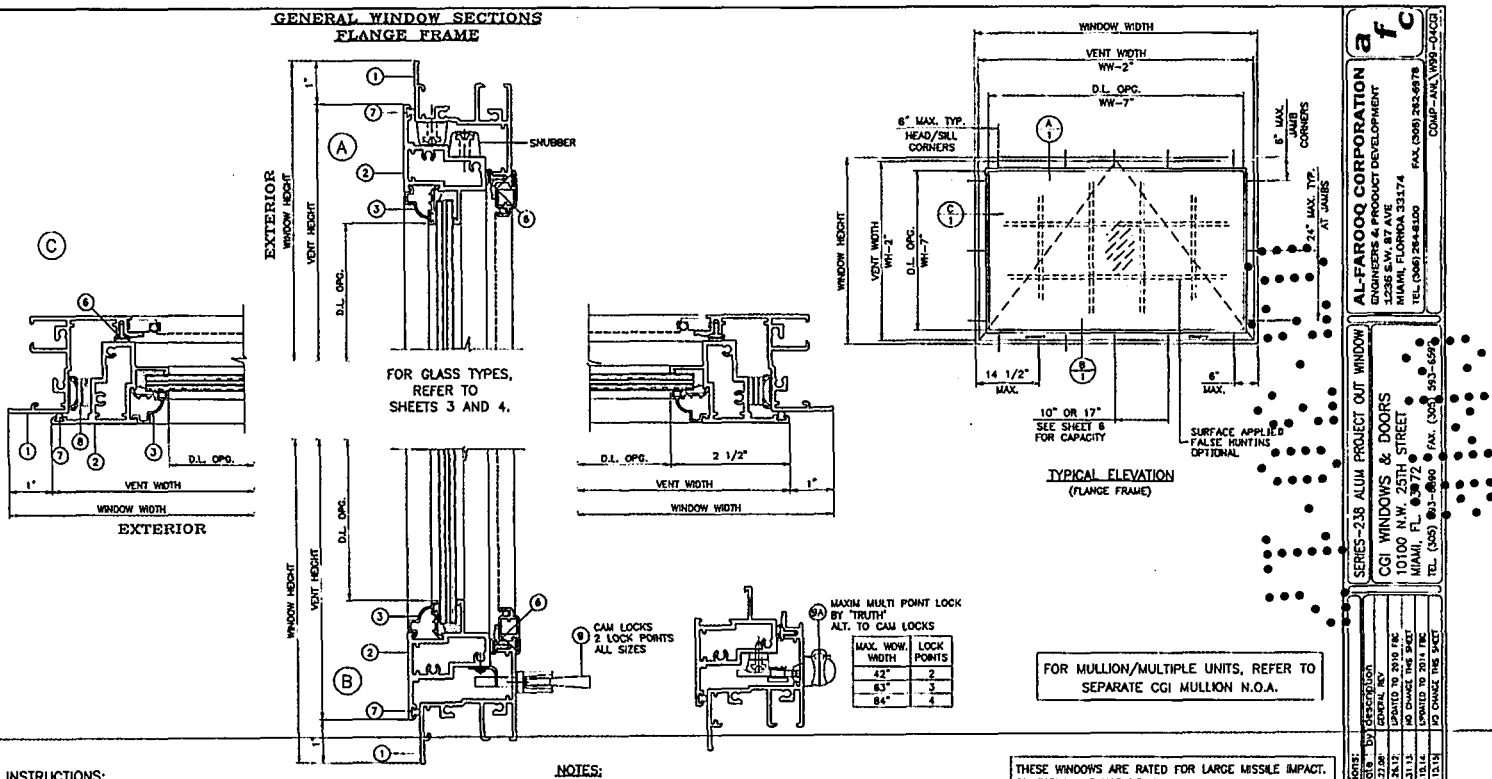
1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, and of no financial interest, dated 09/03/14, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
   (Submitted under previous NOA No. 14-0915.08)
2. Laboratory compliance letters for Test Reports No. **HTL-0080-0301-07** and **HTL-0080-0905-07**, issued by Hurricane Test Laboratory, Inc., dated 08/08/08, all signed and sealed by Vinu J. Abraham, P.E.
   (Submitted under NOA No.08-1010.03)
3. Test Proposal for the qualification of ***Butacite®*** PVB glass interlayer by Kuraray America, Inc., as well as ***Duraseal®*** and ***Super Spacer® Standard*** warm-edge flexible insulating glass spacers, dated December 16, 2014, issued by RER, Product Control Section, signed by Jaime Gascon, P.E., Supervisor, Product Control Section.

G. OTHERS

1. Notice of Acceptance No. **14-0915.08,** issued to CGI Windows & Doors for their Series "238" Aluminum Project-Out Window - L.M.I. approved on 02/05/15 and expiring on 10/31/18.

Manuel Perez P.E.
Product Control Examiner
NOA No. 15-0512.21
Expiration Date: October 31, 2018
Approval Date: September 17, 2015

GENERAL WINDOW SECTIONS
FLANGE FRAME



MAX. WDW. WIDTH	LOCK POINTS
42"	2
63"	3
84"	4

TYPICAL ELEVATION
(FLANGE FRAME)

FOR MULLION/MULTIPLE UNITS, REFER TO SEPARATE CGI MULLION N.O.A.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- **STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- **STEP 2** SEE CHARTS ON SHEETS 3 AND 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE/TYPE.
- **STEP 3** USING CHART ON SHEET 6 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- **STEP 4** IF ALUMINUM BUCK SYSTEM IS USED USE CHART ON SHEET 7 TO DETERMINE CAPACITY.
- **STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

NOTES:

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS. MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE.

THESE WINDOWS ARE RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3638

APR 04 2015

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 15-0512.21
Application Date 03/31/2015
By Miami Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12345 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 254-8100 FAX. (305) 252-6978
COMP-AN\W99-04.CGI

SERIES-238 ALUM. PROJECT OUT WINDOW

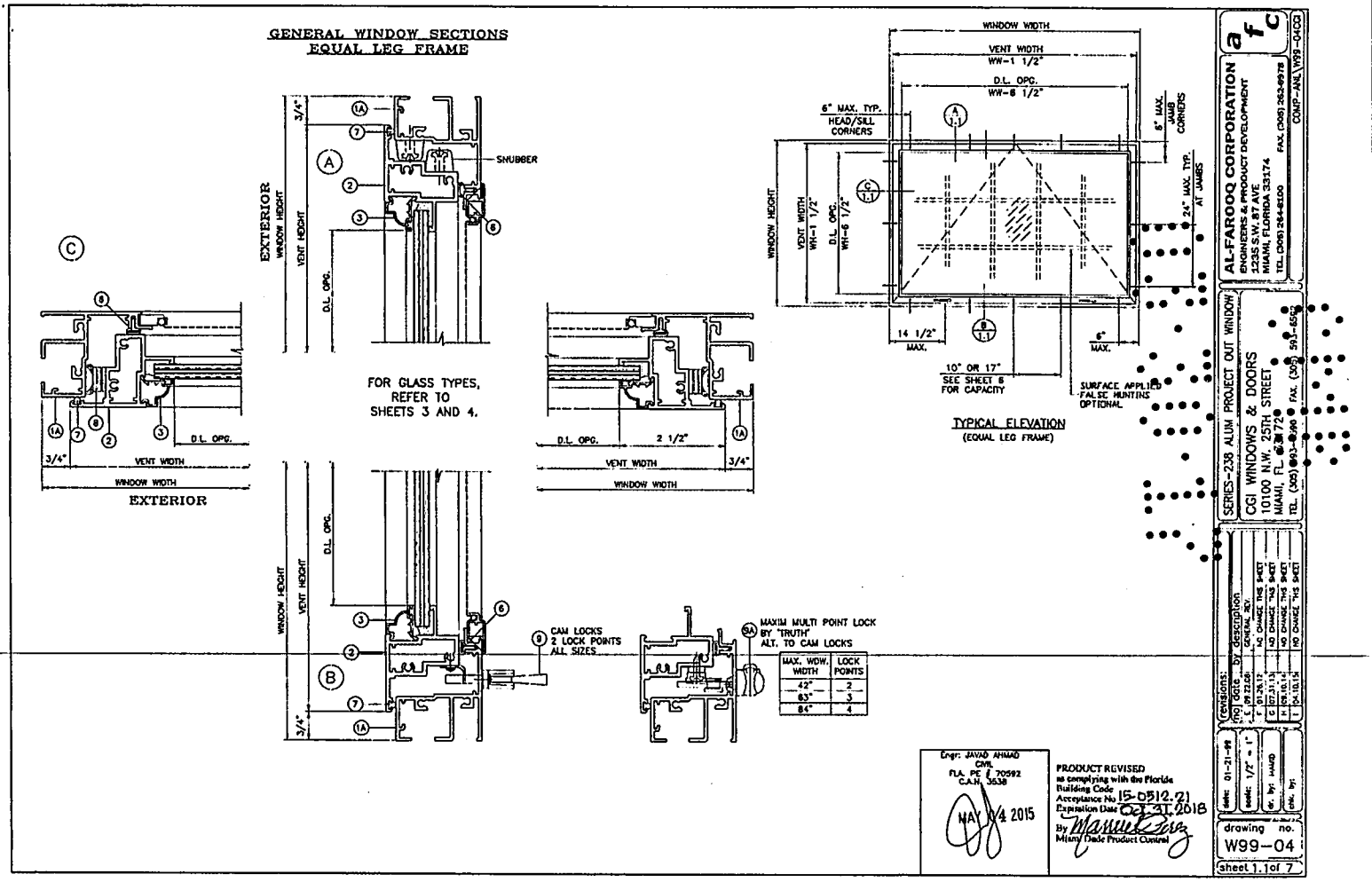
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL. (305) 593-8950 FAX. (305) 593-8958

revisions: no	date	by	description
E	09.22.08		GENERAL REV
F	01.26.12		UPDATED TO 2010 FBC
G	07.31.13		NO CHANGE THIS SHEET
H	09.10.14		UPDATED TO 2014 FBC
I	04.13.15		NO CHANGE THIS SHEET

date: 01-21-99
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W99-04

sheet 1 of 7


GENERAL WINDOW SECTIONS
EQUAL LEG FRAME
EXTERIOR
WINDOW HEIGHT
VENT HEIGHT
D.L. OPG.
3/4"
SNUBBER
FOR GLASS TYPES, REFER TO SHEETS 3 AND 4.
EXTERIOR
D.L. OPG.
3/4"
VENT WIDTH
WINDOW WIDTH
D.L. OPG.
2 1/2"
3/4"
VENT WIDTH
WINDOW WIDTH
WINDOW HEIGHT
VENT HEIGHT
D.L. OPG.
3/4"
CAM LOCKS
2 LOCK POINTS
ALL SIZES
MAXIM MULTI POINT LOCK
BY "TRUTH"
ALT. TO CAM LOCKS
MAX. WDW. WIDTH
LOCK POINTS
42" 2
63" 3
84" 4
WINDOW WIDTH
VENT WIDTH
WW-1 1/2"
D.L. OPG.
WW-6 1/2"
6" MAX. TYP.
HEAD/SILL CORNERS
6" MAX.
JAMB CORNERS
WINDOW HEIGHT
VENT WIDTH
WH-1 1/2"
D.L. OPG.
WH-6 1/2"
24" MAX. TYP. AT JAMBS
14 1/2" MAX.
6" MAX.
10" OR 17"
SEE SHEET 8
FOR CAPACITY
SURFACE APPLIED FALSE MUNTINS OPTIONAL
TYPICAL ELEVATION
(EQUAL LEG FRAME)
Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.H. 3638
MAY 04 2015
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512.21
Expiration Date Oct. 31, 2018
By
Miami Dade Product Control
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100
FAX (305) 383-9978
COMP-ANL W99-0404
SERIES-238 ALUM PROJECT OUT WINDOW
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-8990
FAX. (305) 593-8995
revisions:
no. date by description
1 04.10.15 NO CHANGE THIS SHEET
2 05.10.14 NO CHANGE THIS SHEET
3 07.21.15 NO CHANGE THIS SHEET
4 01.26.17 NO CHANGE THIS SHEET
5 09 22.08 GENERAL REV.
date: 01-21-99
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chk. by:
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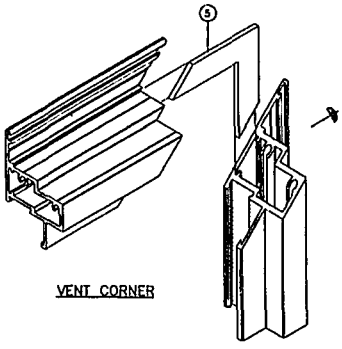
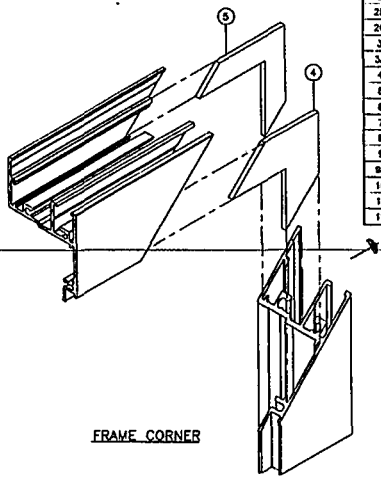
sheet 1 of 7

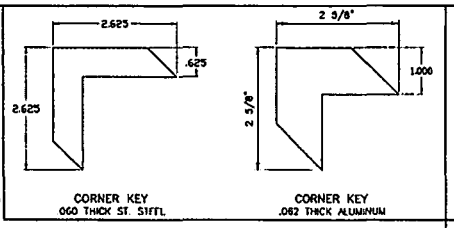


VENT CORNER

ALL FRAME AND VENT CORNERS TO BE SEALED WITH GC SILPRUF OR EQUIV.

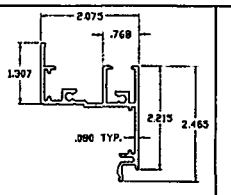


FRAME CORNER

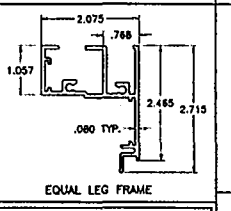


CORNER KEY .060 THICK ST. STEEL

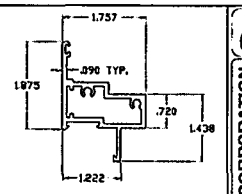
CORNER KEY .062 THICK ALUMINUM



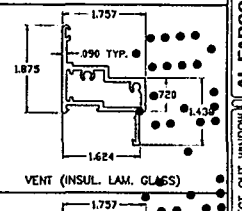
FLANGE FRAME



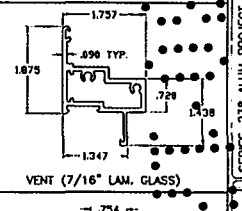
EQUAL LEG FRAME



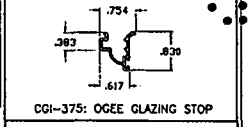
VENT (5/16" LAM. GLASS)



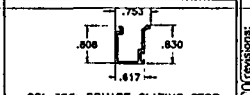
VENT (INSUL. LAM. GLASS)



VENT (7/16" LAM. GLASS)



CGI-375: OGEE GLAZING STOP



CGI-396: SQUARE GLAZING STOP

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	CGI-373	4	FLANGE FRAME	6063-T6	INDALEX OR EQUIV.
1A	CGI-367	4	EQUAL LEG FRAME	6063-T6	INDALEX OR EQUIV.
2	CGI-378	4	VENT (5/16" LAM. GLASS)	6063-T6	INDALEX OR EQUIV.
2B	CGI-381	4	VENT (INSUL. LAM. GLASS)	6063-T6	INDALEX OR EQUIV.
2C	CGI-385	4	VENT (7/16" LAM. GLASS)	6063-T6	INDALEX OR EQUIV.
3	CGI-375	4	OGEE GLAZING BEAD	6063-T5	INDALEX OR EQUIV.
3A	CGI-396	4	SQUARE GLAZING BEAD	6063-T5	INDALEX OR EQUIV.
4	–	4	.060 THICK CORNER KEY	ALUMINUM	–
5	–	8	.040 THICK CORNER KEY	ST. STEEL	–
6	AP-425	AS REQD.	FRAME WEATHERSTRIPPING	–	SCHLEGEL APTUS
7	0200 X190	AS REQD.	VENT WEATHERSTRIPPING	–	SCHLEGEL Q-LON
8	35-10-00-101	2/ VENT	4 BAR HINGE, AT JAMBS	STEEL	TRUTH, ATTACHED W/ (8) #8 X 3/8" SS SMS
9	24-13-00-202	2/ VENT	FACE MOUNT LOCK	STEEL	TRUTH, ATTACHED W/ (2) #8 X 3/8" SMS
9A	–	2/ VENT	MULTI POINT LOCK	–	–
10	–	2/ VENT	.110 THICK LOCK KEEPER, AT FRAME JAMB FACING LOCK	STEEL	CGI, ATTACHED W/ (2) #10 X 3/8" SS SMS
11	–	2/ CORNER	FRAME AND VENT ASSEMBLY SCREWS	–	#10 X 1-1/4" SS SMS
12	–	2/ LITE	SETTING BLOCKS	EPDM	DUROMETER 80±5 SHORE A

Engr. JAVAD AHMAD
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10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6560 FAX. (305) 593-6594

revisions:			
NO	DATE	BY	DESCRIPTION
E	04-27-04		SCALE, ETC
F	07-26-12		NO CHANGE, THIS SHEET
G	07-31-13		NO CHANGE, THIS SHEET
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I	04-10-15		NO CHANGE, THIS SHEET

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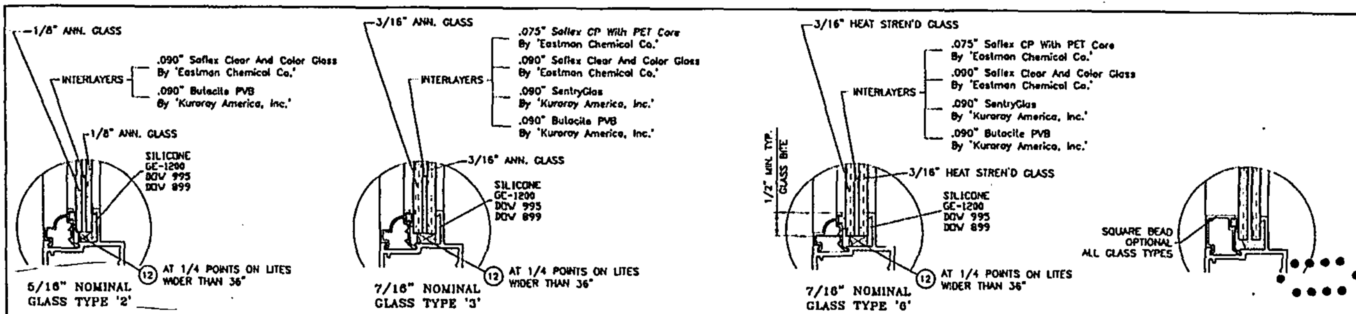

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
NO SHUTTERS REQUIRED
REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS

WINDOW DIMS.		GLASS TYPE '2'		GLASS TYPE '3'		GLASS TYPE '6'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24"	24"	110.0	195.0	110.0	195.0	110.0	195.0
	28"	110.0	195.0	110.0	195.0	110.0	195.0
	30"	110.0	194.3	110.0	195.0	110.0	195.0
	36"	110.0	161.9	110.0	195.0	110.0	195.0
	42"	110.0	138.8	110.0	195.0	110.0	195.0
	48"	110.0	121.4	110.0	195.0	110.0	195.0
	54"	107.9	107.9	110.0	195.0	110.0	195.0
	60"	95.4	95.4	110.0	195.0	110.0	120.0
	66"	73.4	73.4	110.0	120.0	110.0	120.0
	72"	56.1	56.1	110.0	120.0	110.0	120.0
	78"	43.8	43.8	110.0	120.0	110.0	120.0
	84"	34.9	34.9	110.0	120.0	110.0	120.0
30"	24"	110.0	194.3	110.0	195.0	110.0	195.0
	28"	110.0	166.5	110.0	195.0	110.0	195.0
	30"	110.0	155.4	110.0	195.0	110.0	195.0
	36"	110.0	129.5	110.0	195.0	110.0	195.0
	42"	110.0	111.0	110.0	195.0	110.0	195.0
	48"	97.1	97.1	110.0	195.0	110.0	120.0
	54"	86.3	86.3	110.0	120.0	110.0	120.0
	60"	77.7	77.7	110.0	120.0	110.0	120.0
	66"	60.6	60.6	110.0	120.0	110.0	120.0
	72"	46.0	46.0	110.0	120.0	110.0	120.0
	78"	-	-	110.0	120.0	-	-
36"	24"	110.0	161.9	110.0	195.0	110.0	195.0
	28"	110.0	138.8	110.0	195.0	110.0	195.0
	30"	110.0	129.5	110.0	195.0	110.0	195.0
	36"	107.9	107.9	110.0	195.0	110.0	195.0
	42"	92.5	92.5	110.0	120.0	110.0	120.0
	48"	80.9	80.9	110.0	120.0	110.0	120.0
	54"	71.9	71.9	110.0	120.0	110.0	120.0
	60"	64.8	64.8	110.0	120.0	110.0	120.0

NOTE:
LOAD/AREA LIMITS
FOR +110.0, -120.0 PSF = 16.34 SQ. FT.
+110.0, -195.0 PSF = 10.00 SQ. FT.

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
NO SHUTTERS REQUIRED
REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS

WINDOW DIMS.		GLASS TYPE '2'		GLASS TYPE '3'		GLASS TYPE '6'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
42"	24"	110.0	138.8	110.0	195.0	110.0	195.0
	28"	110.0	118.9	110.0	195.0	110.0	195.0
	30"	110.0	111.0	110.0	195.0	110.0	195.0
	36"	92.5	92.5	110.0	120.0	110.0	120.0
	42"	79.3	79.3	110.0	120.0	110.0	120.0
	48"	69.4	69.4	110.0	120.0	110.0	120.0
	54"	61.7	61.7	110.0	120.0	110.0	120.0
48"	24"	110.0	121.4	110.0	195.0	110.0	195.0
	28"	104.1	104.1	110.0	195.0	110.0	120.0
	30"	97.1	97.1	110.0	195.0	110.0	120.0
	36"	80.9	80.9	110.0	120.0	110.0	120.0
	42"	69.4	69.4	110.0	120.0	110.0	120.0
	48"	60.7	60.7	110.0	120.0	110.0	120.0
54"	24"	107.9	107.9	110.0	195.0	110.0	195.0
	28"	92.5	92.5	110.0	120.0	110.0	120.0
	30"	86.3	86.3	110.0	120.0	110.0	120.0
	36"	71.9	71.9	110.0	120.0	110.0	120.0
	42"	61.7	61.7	110.0	120.0	110.0	120.0
60"	24"	95.4	95.4	110.0	195.0	110.0	120.0
	28"	83.3	83.3	110.0	120.0	110.0	120.0
	30"	77.7	77.7	110.0	120.0	110.0	120.0
	36"	64.8	64.8	110.0	120.0	110.0	120.0
66"	24"	73.4	73.4	110.0	120.0	110.0	120.0
	28"	64.2	64.2	110.0	120.0	110.0	120.0
	30"	60.6	60.6	110.0	120.0	110.0	120.0
72"	24"	56.1	56.1	110.0	120.0	110.0	120.0
	28"	48.9	48.9	110.0	120.0	110.0	120.0
	30"	46.0	46.0	110.0	120.0	110.0	120.0
78"	24"	43.8	43.8	110.0	120.0	110.0	120.0
	28"	38.1	38.1	110.0	120.0	110.0	120.0
	30"	-	-	110.0	120.0	-	-
84"	24"	34.9	34.9	110.0	120.0	110.0	120.0
	28"	-	-	110.0	120.0	-	-

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
NO SHUTTERS REQUIRED
REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS

WINDOW DIMS.		GLASS TYPE '2'		GLASS TYPE '3'		GLASS TYPE '6'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
19-1/8"	26"	110.0	195.0	110.0	195.0	110.0	195.0
	38-3/8"	110.0	190.8	110.0	195.0	110.0	195.0
	50-5/8"	110.0	144.5	110.0	195.0	110.0	195.0
	63"	104.2	104.2	110.0	195.0	110.0	195.0
	74-1/4"	63.0	63.0	110.0	195.0	110.0	120.0
26-1/2"	26"	110.0	195.0	110.0	195.0	110.0	195.0
	38-3/8"	110.0	137.5	110.0	195.0	110.0	195.0
	50-5/8"	104.3	104.3	110.0	195.0	110.0	195.0
	63"	77.9	77.9	110.0	120.0	110.0	120.0
	74-1/4"	46.6	46.6	110.0	120.0	110.0	120.0
37"	26"	110.0	145.4	110.0	195.0	110.0	195.0
	38-3/8"	98.5	98.5	110.0	194.5	110.0	120.0
	50-5/8"	74.7	74.7	110.0	120.0	110.0	120.0
	63"	60.0	60.0	110.0	120.0	110.0	120.0
42"	26"	110.0	128.1	110.0	195.0	110.0	195.0
	38-3/8"	86.8	86.8	110.0	120.0	110.0	120.0
	50-5/8"	65.8	65.8	110.0	120.0	110.0	120.0
53-1/8"	26"	101.3	101.3	110.0	195.0	110.0	120.0
	38-3/8"	68.6	68.6	110.0	120.0	110.0	120.0

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219

Engr: JAVAD AHMAD
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Miami Dade Product Control

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COMP-ANL\W99-04CG

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revisions:

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E	09.22.08		GENERAL REV.
F	01.26.12		UPDATED TO 2010 FBC
G	07.31.13		REV PER RER COMMENTS
H	29.10.14		UPDATED TO 2014 FBC
I	24.10.15		INTERLAYER REV.

date: 01-21-99
scale: 1/2" = 1"
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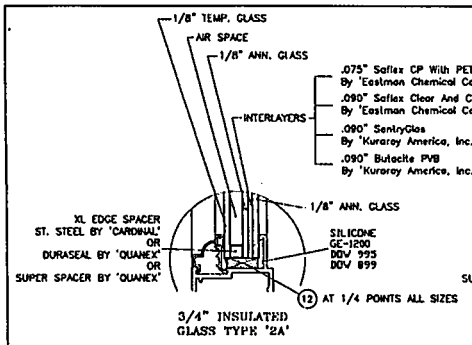
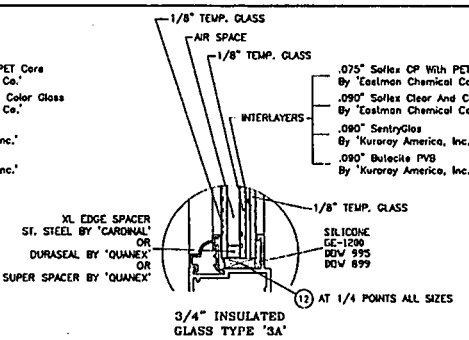
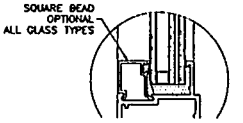
sheet 3 of 7



3/4" INSULATED
GLASS TYPE '2A'



3/4" INSULATED
GLASS TYPE '3A'



PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
NO SHUTTERS REQUIRED
REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS

WINDOW DIMS.		GLASS TYPE '2A'		GLASS TYPE '3A'	
WIDTH	HEIGHT	EXT. (+)	INT. (−)	EXT. (+)	INT. (−)
24"	24"	110.0	195.0	110.0	195.0
	28"	110.0	195.0	110.0	195.0
	30"	110.0	194.3	110.0	195.0
	36"	110.0	161.9	110.0	195.0
	42"	110.0	138.8	110.0	195.0
	48"	110.0	121.4	110.0	195.0
	54"	107.9	107.9	110.0	195.0
	60"	95.4	95.4	110.0	120.0
	66"	73.4	73.4	110.0	120.0
	72"	58.1	58.1	109.3	109.3
	78"	43.8	43.8	85.4	85.4
	84"	34.9	34.9	68.0	68.0
30"	24"	110.0	194.3	110.0	195.0
	28"	110.0	166.5	110.0	195.0
	30"	110.0	155.4	110.0	195.0
	36"	110.0	129.5	110.0	195.0
	42"	110.0	111.0	110.0	195.0
	48"	97.1	97.1	110.0	120.0
	54"	86.3	86.3	110.0	120.0
	60"	77.7	77.7	110.0	120.0
	66"	60.6	60.6	110.0	118.2
	72"	46.0	46.0	89.8	89.8
	78"	-	-	-	-
36"	24"	110.0	161.9	110.0	195.0
	28"	110.0	138.8	110.0	195.0
	30"	110.0	129.5	110.0	195.0
	36"	107.9	107.9	110.0	195.0
	42"	92.5	92.5	110.0	120.0
	48"	80.9	80.9	110.0	120.0
	54"	71.9	71.9	110.0	120.0
	60"	64.8	64.8	110.0	120.0

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
NO SHUTTERS REQUIRED
REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS

WINDOW DIMS.		GLASS TYPE '2A'		GLASS TYPE '3A'	
WIDTH	HEIGHT	EXT. (+)	INT. (−)	EXT. (+)	INT. (−)
42"	24"	110.0	138.8	110.0	195.0
	28"	110.0	118.9	110.0	195.0
	30"	110.0	111.0	110.0	195.0
	36"	92.5	92.5	110.0	120.0
	42"	79.3	79.3	110.0	120.0
	48"	69.4	69.4	110.0	120.0
	54"	61.7	61.7	110.0	120.0
48"	24"	110.0	121.4	110.0	195.0
	28"	104.1	104.1	110.0	120.0
	30"	97.1	97.1	110.0	120.0
	36"	80.9	80.9	110.0	120.0
	42"	69.4	69.4	110.0	120.0
	48"	60.7	60.7	110.0	118.4
54"	24"	107.9	107.9	110.0	195.0
	28"	92.5	92.5	110.0	120.0
	30"	86.3	86.3	110.0	120.0
	36"	71.9	71.9	110.0	120.0
	42"	61.7	61.7	110.0	120.0
60"	24"	95.4	95.4	110.0	120.0
	28"	83.3	83.3	110.0	120.0
	30"	77.7	77.7	110.0	120.0
	36"	64.8	64.8	110.0	120.0
66"	24"	73.4	73.4	110.0	120.0
	28"	64.2	64.2	110.0	120.0
	30"	60.6	60.6	110.0	118.2
72"	24"	58.1	58.1	109.3	109.3
	28"	48.9	48.9	95.3	95.3
	30"	46.0	46.0	89.8	89.8
78"	24"	43.8	43.8	85.4	85.4
	28"	38.1	38.1	74.3	74.3
84"	24"	34.9	34.9	68.0	68.0

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
NO SHUTTERS REQUIRED
REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS

WINDOW DIMS.		GLASS TYPE '2A'		GLASS TYPE '3A'	
WIDTH	HEIGHT	EXT. (+)	INT. (−)	EXT. (+)	INT. (−)
19-1/8"	26"	110.0	195.0	110.0	195.0
	38-3/8"	110.0	190.6	110.0	195.0
	50-5/8"	110.0	144.5	110.0	195.0
	63"	104.2	104.2	110.0	195.0
	74-1/4"	83.0	83.0	110.0	120.0
26-1/2"	26"	110.0	195.0	110.0	195.0
	38-3/8"	110.0	137.5	110.0	195.0
	50-5/8"	104.3	104.3	110.0	195.0
	63"	77.9	77.9	110.0	120.0
	74-1/4"	46.6	46.6	90.9	90.9
37"	26"	110.0	145.4	110.0	195.0
	38-3/8"	98.5	98.5	110.0	120.0
	50-5/8"	74.7	74.7	110.0	120.0
	63"	60.0	60.0	110.0	117.0
42"	26"	110.0	128.1	110.0	195.0
	38-3/8"	86.8	86.8	110.0	120.0
	50-5/8"	65.8	65.8	110.0	120.0
53-1/8"	26"	101.3	101.3	110.0	120.0
	38-3/8"	88.6	88.6	110.0	120.0

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219

NOTE:
LOAD/AREA LIMITS
FOR +110.0, −120.0 PSF = 16.34 SQ. FT.
+110.0, −195.0 PSF = 10.00 SQ. FT.

Engr: JAWAD AHMAD
CIVIL
FLA. LIC. # 70592
CA# 3338
MAY 04 2015

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 15-0512.21
Expiration Date Jan 21 2018
By Manuel Saez
Miami-Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 263-9978
COMP-ANL.W99-04CDI

SERIES-238 ALUM. PROJECT OUT WINDOW
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL. (305) 594-8890 FAX. (305) 593-5592

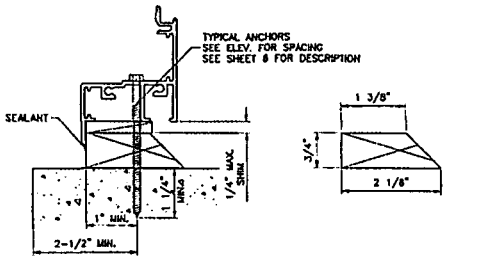
revisions:

no.	date	by	description
1	01-21-99		ORIGINAL REV.
2	11-23-04		REV. PER NEW DRAWINGS
3	01-24-13		REV. PER NEW DRAWINGS
4	08-20-13		APPROVED AS NOTED
5	04-04-15		WINDGUARD & SPACER REV.

date: 01-21-99
scale: 1/2" = 1'
dr. by: MMD
ck. by:
drawing no. W99-04
sheet 4 of 7

INSTALLATION CONDITIONS FLANGE FRAME (APPLIES TO ALL FOUR SIDES)

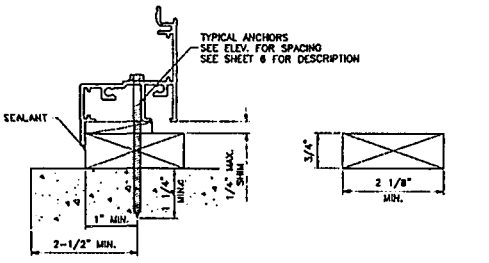
FOR ANCHOR PERFORMANCE VALUES SEE SHEET 6



INSTALLATION TYPE '1'

WOOD BUCK TYPE '1'
MATERIAL: PRESSURE TREATED

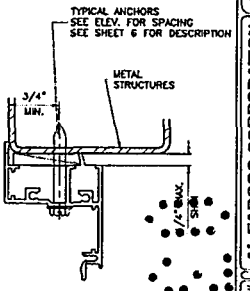
TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



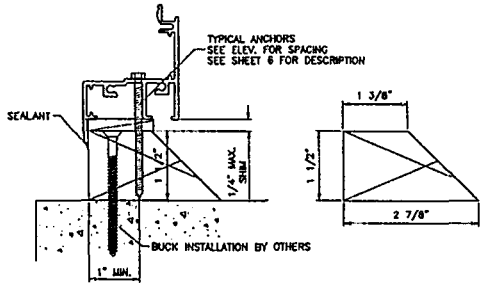
INSTALLATION TYPE '2'

WOOD BUCK TYPE '2'
MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



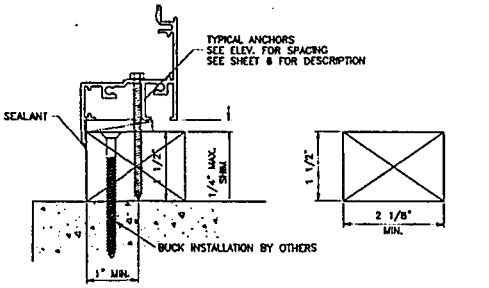
ATTACHMENT TO
METAL STRUCTURES



INSTALLATION TYPE '3'

WOOD BUCK TYPE '3'
MATERIAL: PRESSURE TREATED

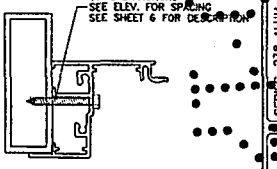
TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



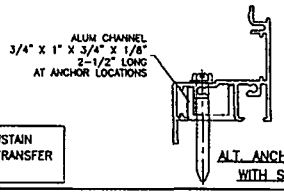
INSTALLATION TYPE '4'

WOOD BUCK TYPE '4'
MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



ATTACHMENT TO
APPROVED MULLIONS



ALT. ANCHOR LOCATION
WITH SHEAR CLIP

WOOD BUCKS NOT BY CGI CORP., MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 5538

MAY 0 8 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0512.21
Expiration Date OCT 31 2018
By Miami-Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 263-9978
COMP-AHL\W99-04CGI

SERIES-238 ALUM PROJECT OUT WINDOW

CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 592-8560 FAX. (305) 593-8659

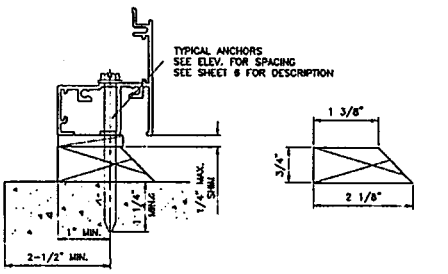
revisions:			
NO	DATE	by	description
L	06-22-06		ORIGINAL REV
J	01-26-12		NO CHANGE THIS SHEET
K	07-31-13		NO CHANGE THIS SHEET
L	09-10-14		NO CHANGE THIS SHEET
M	04-10-15		NO CHANGE THIS SHEET

date: 01-21-99
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W99-04
sheet 5 of 7

INSTALLATION CONDITIONS EQUAL LEG FRAME (APPLIES TO ALL FOUR SIDES)

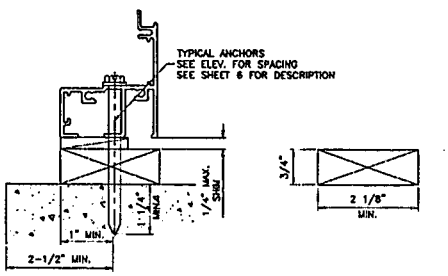
FOR ANCHOR PERFORMANCE VALUES SEE SHEET 6



INSTALLATION TYPE '1' — WOOD BUCK TYPE '1'

MATERIAL: PRESSURE TREATED

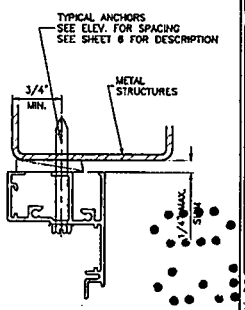
TYPICAL INSTALLATION DETAIL ON ALL FOUR SIDES/USING WOOD



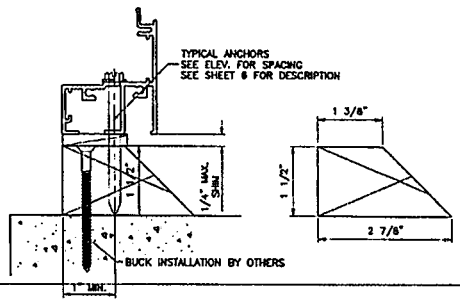
INSTALLATION TYPE '2' — WOOD BUCK TYPE '2'

MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL ON ALL FOUR SIDES/USING WOOD



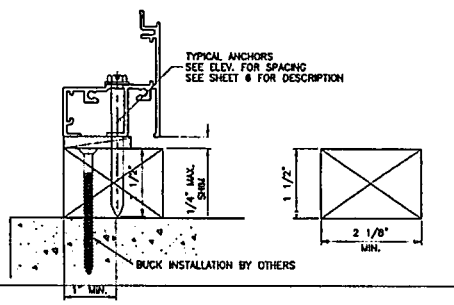
ATTACHMENT TO METAL STRUCTURES



INSTALLATION TYPE '3' — WOOD BUCK TYPE '3'

MATERIAL: PRESSURE TREATED

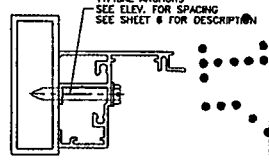
TYPICAL INSTALLATION DETAIL ON ALL FOUR SIDES/USING WOOD



INSTALLATION TYPE '4' — WOOD BUCK TYPE '4'

MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL ON ALL FOUR SIDES/USING WOOD



ATTACHMENT TO APPROVED MULLIONS

WOOD BUCKS NOT BY CGI CORP., MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

Engr: JAWAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 0038

MAY 04 2018

PRODUCT REVISED
as complying with the Florida
Building Code 15-0512.21
Acceptance No.
Expiration Date DEC. 31, 2018
By
Miami-Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-6100 FAX. (305) 263-9978
COMP-ARL W99-04(C)

SERIES-238 ALUM PROJECT OUT WINDOW

CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 592-8560 FAX. (305) 592-8565

REVISIONS:	DATE	BY	DESCRIPTION
REV. 0	01-21-99		
1	04.12.24		NO CHANGE THIS SHEET
2	07.31.17		NO CHANGE THIS SHEET
3	09.21.17		NO CHANGE THIS SHEET
4	12.13.17		NO CHANGE THIS SHEET
5	04.10.18		NO CHANGE THIS SHEET

date: 01-21-99
scale: 1/2" = 1"
dr. by: JAMD
ck. by:

drawing no. W99-04

sheet 5.1 of 7

PERFORMANCE VALUES OF INSTALLATION ANCHORS
REFER TO SHEET 5 FOR DETAILS

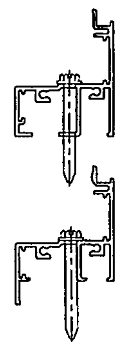
WINDOW DIMS.		ANCHORS TYPE 'A' & 'C'				ANCHORS TYPE 'B'	
		W/O SHEAR CLIP		WITH SHEAR CLIP		WITH OR W/O SHEAR CLIP	
WIDTH	HEIGHT	AT 17" O.C.	AT 16" O.C.	AT 17" O.C.	AT 16" O.C.	AT 17" O.C.	AT 16" O.C.
24"	24"	195.0	195.0	129.0	193.5	195.0	195.0
	28"	195.0	195.0	110.6	165.9	195.0	195.0
	30"	195.0	195.0	154.8	154.8	195.0	195.0
	36"	195.0	195.0	129.0	172.0	195.0	195.0
	42"	195.0	195.0	110.6	147.4	195.0	195.0
	48"	195.0	195.0	129.0	181.3	195.0	195.0
	54"	195.0	195.0	114.7	172.0	195.0	195.0
	60"	193.6	195.0	103.2	154.8	195.0	195.0
	66"	195.0	195.0	117.3	184.2	195.0	195.0
	72"	195.0	195.0	107.5	150.5	195.0	195.0
	78"	186.2	195.0	99.2	158.8	195.0	195.0
	84"	195.0	195.0	110.6	165.9	195.0	195.0
30"	24"	195.0	195.0	154.8	154.8	195.0	195.0
	28"	195.0	195.0	132.7	132.7	195.0	195.0
	30"	195.0	195.0	123.8	123.8	195.0	195.0
	36"	193.6	195.0	103.2	137.6	195.0	195.0
	42"	165.9	195.0	88.5	117.9	195.0	195.0
	48"	193.6	195.0	103.2	129.0	195.0	195.0
	54"	172.1	195.0	91.7	137.6	195.0	195.0
	60"	154.9	195.0	82.6	123.8	195.0	195.0
	66"	176.0	195.0	93.8	131.3	195.0	195.0
	72"	161.3	195.0	86.0	120.4	195.0	195.0
	78"	148.9	195.0	79.4	127.0	195.0	195.0
36"	24"	195.0	195.0	129.0	172.0	195.0	195.0
	28"	195.0	195.0	110.6	147.4	195.0	195.0
	30"	193.6	195.0	103.2	137.6	195.0	195.0
	36"	161.3	195.0	86.0	114.7	195.0	195.0
	42"	138.3	184.4	73.7	98.3	195.0	195.0
	48"	161.3	195.0	86.0	107.5	195.0	195.0
	54"	143.4	195.0	76.4	114.7	195.0	195.0
	60"	129.1	193.6	68.8	103.2	195.0	195.0
42"	24"	195.0	195.0	110.6	147.4	195.0	195.0
	28"	177.8	195.0	94.8	126.4	195.0	195.0
	30"	165.9	195.0	88.5	117.9	195.0	195.0
	36"	138.3	184.4	73.7	98.3	195.0	195.0
	42"	118.5	158.0	63.2	84.2	179.8	195.0
	48"	138.3	172.9	73.7	92.1	195.0	195.0
	54"	122.9	184.4	65.5	98.3	186.4	195.0
48"	24"	195.0	195.0	129.0	181.3	195.0	195.0
	28"	195.0	195.0	110.6	138.2	195.0	195.0
	30"	193.6	195.0	103.2	129.0	195.0	195.0
	36"	161.3	195.0	86.0	107.5	195.0	195.0
	42"	138.3	172.9	73.7	92.1	195.0	195.0
	48"	121.0	151.3	64.5	80.6	183.5	195.0
54"	24"	195.0	195.0	114.7	172.0	195.0	195.0
	28"	184.4	195.0	98.3	147.4	195.0	195.0
	30"	172.1	195.0	91.7	137.6	195.0	195.0
	36"	143.4	195.0	76.4	114.7	195.0	195.0
	42"	122.9	184.4	65.5	98.3	186.4	195.0
60"	24"	193.6	195.0	103.2	154.8	195.0	195.0
	28"	165.9	195.0	88.5	132.7	195.0	195.0
	30"	154.9	195.0	82.6	123.8	195.0	195.0
	36"	129.1	193.6	68.8	103.2	195.0	195.0
66"	24"	195.0	195.0	117.3	184.2	195.0	195.0
	28"	188.6	195.0	100.5	14.7	195.0	195.0
	30"	176.0	195.0	93.8	131.3	195.0	195.0
72"	24"	195.0	195.0	107.5	160.5	195.0	195.0
	28"	172.9	195.0	92.1	129.0	195.0	195.0
	30"	161.3	195.0	86.0	120.4	195.0	195.0

PERFORMANCE VALUES OF INSTALLATION ANCHORS
REFER TO SHEET 5 FOR DETAILS

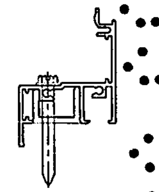
WINDOW DIMS.		ANCHORS TYPE 'A' & 'C'				ANCHORS TYPE 'B'	
		W/O SHEAR CLIP		WITH SHEAR CLIP		WITH OR W/O SHEAR CLIP	
WIDTH	HEIGHT	AT 17" O.C.	AT 16" O.C.	AT 17" O.C.	AT 16" O.C.	AT 17" O.C.	AT 16" O.C.
78"	24"	186.2	195.0	99.2	158.8	195.0	195.0
	28"	159.6	195.0	85.1	136.1	195.0	195.0
	30"	148.9	195.0	79.4	127.0	195.0	195.0
84"	24"	195.0	195.0	110.6	165.9	195.0	195.0
	28"	177.8	195.0	94.8	142.2	195.0	195.0

PERFORMANCE VALUES OF INSTALLATION ANCHORS
REFER TO SHEET 5 FOR DETAILS

WINDOW DIMS.		ANCHORS TYPE 'A' & 'C'				ANCHORS TYPE 'B'	
		W/O SHEAR CLIP		WITH SHEAR CLIP		WITH OR W/O SHEAR CLIP	
WIDTH	HEIGHT	AT 17" O.C.	AT 16" O.C.	AT 17" O.C.	AT 16" O.C.	AT 17" O.C.	AT 16" O.C.
19-1/8"	26"	195.0	195.0	149.4	195.0	195.0	195.0
	38-3/8"	195.0	195.0	151.9	195.0	195.0	195.0
	50-5/8"	195.0	195.0	153.5	191.9	195.0	195.0
	63"	195.0	195.0	123.3	195.0	195.0	195.0
	74-1/4"	195.0	195.0	130.6	195.0	195.0	195.0
26-1/2"	26"	195.0	195.0	107.8	161.6	195.0	195.0
	38-3/8"	195.0	195.0	109.6	146.1	195.0	195.0
	50-5/8"	195.0	195.0	110.8	138.5	195.0	195.0
	63"	167.0	195.0	89.0	155.8	195.0	195.0
	74-1/4"	177.1	195.0	94.4	151.1	195.0	195.0
37"	26"	195.0	195.0	115.9	154.5	195.0	195.0
	38-3/8"	147.3	195.0	78.5	104.7	195.0	195.0
	50-5/8"	148.8	186.0	79.3	99.2	195.0	195.0
	63"	119.8	195.0	63.8	111.6	181.4	195.0
42"	26"	191.5	195.0	102.1	136.1	195.0	195.0
	38-3/8"	129.7	173.0	69.2	92.2	195.0	195.0
	50-5/8"	131.1	163.9	69.9	87.4	195.0	195.0
53-1/8"	26"	195.0	195.0	107.6	161.4	195.0	195.0
	38-3/8"	136.7	195.0	72.9	109.3	195.0	195.0



ANCHORS W/O SHEAR CLIP



ANCHORS WITH SHEAR CLIP

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'- 1/4" DIA. KWIK-CON II BY 'HILTI' (Fu=163 KSI, Fy=157 KSI)
1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

TYPE 'B'- 1/4" DIA. KWIK-CON II BY 'HILTI' (Fu=163 KSI, Fy=157 KSI)
1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

TYPE 'C'- #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")
INTO METAL STRUCTURES
STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
MAY 04 2015

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 15-0512.21
Expiration Date Oct. 31, 2018
By Manuel Perez
Miami Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W99-04CG

SERIES-238 ALUM. PROJECT OUT WINDOW

CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

revisions:			
no	date	by	description
E	09.22.08		GENERAL REV.
F	01.26.12		NO CHANGE THIS SHEET
G	07.31.13		NO CHANGE THIS SHEET
H	09.13.14		UPDATED TO 2014 FBC
I	04.10.15		NO CHANGE THIS SHEET

date: 01-21-99
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no. W99-04

sheet 6 of 7

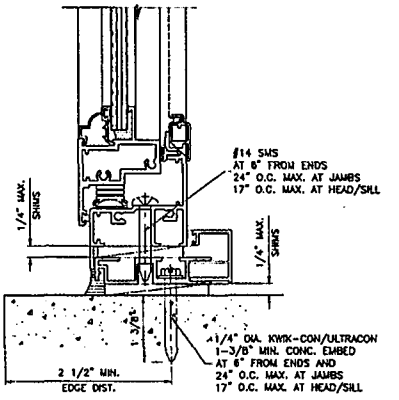
PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS			
WINDOW DIMS.		1/4" ANCHORS INTO MASONRY	1/4" ANCHORS INTO WOOD
WIDTH	HEIGHT	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
24"	24"	195.0	195.0
	28"	195.0	195.0
	30"	195.0	195.0
	36"	195.0	195.0
	42"	195.0	169.1
	48"	195.0	148.0
	54"	185.0	131.6
	60"	177.6	118.4
	66"	161.5	107.6
	72"	148.0	98.7
	78"	136.6	91.1
	84"	126.9	84.6
28"	24"	195.0	195.0
	28"	195.0	195.0
	30"	195.0	195.0
	36"	195.0	169.1
	42"	195.0	145.0
	48"	190.3	126.9
	54"	169.1	112.8
	60"	152.2	101.5
	66"	138.4	92.3
	72"	126.9	84.6
	78"	117.1	78.1
	84"	108.7	72.5
30"	24"	195.0	195.0
	28"	195.0	195.0
	30"	195.0	189.4
	36"	195.0	157.9
	42"	195.0	135.3
	48"	195.0	118.4
	54"	185.0	105.2
	60"	177.6	94.7
	66"	161.5	86.1
	72"	148.0	78.9
	78"	136.6	72.9
36"	24"	195.0	195.0
	28"	195.0	169.1
	30"	195.0	157.9
	36"	195.0	131.6
	42"	195.0	112.8
	48"	185.0	98.7
	54"	164.4	87.7
	60"	148.0	78.9
42"	24"	190.3	169.1
	28"	163.1	145.0
	30"	152.2	135.3
	36"	126.9	112.8
	42"	108.7	96.7
	48"	95.1	84.6
	54"	84.6	75.2

PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS			
WINDOW DIMS.		1/4" ANCHORS INTO MASONRY	1/4" ANCHORS INTO WOOD
WIDTH	HEIGHT	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
48"	24"	195.0	148.0
	28"	190.3	126.9
	30"	177.6	118.4
	36"	148.0	98.7
	42"	126.9	84.6
	48"	111.0	74.0
54"	24"	185.0	131.6
	28"	169.1	112.8
	30"	157.9	105.2
	36"	131.6	87.7
	42"	112.8	75.2
60"	24"	177.6	118.4
	28"	152.2	101.5
	30"	142.1	94.7
	36"	118.4	78.9
66"	24"	195.0	134.5
	28"	173.0	115.3
	30"	161.5	107.6
72"	24"	185.0	123.3
	28"	158.6	105.7
	30"	148.0	98.7
78"	24"	170.8	113.8
	28"	146.4	97.6
	30"	136.6	91.1
84"	24"	190.3	126.9
	28"	163.1	108.7
19-1/8"	28"	195.0	195.0
	36-3/8"	195.0	195.0
	50-5/8"	195.0	176.1
	63"	195.0	141.5
	74-1/4"	180.1	120.1
28-1/2"	28"	195.0	195.0
	36-3/8"	195.0	187.7
	50-5/8"	190.8	127.1
	63"	153.2	102.1
	74-1/4"	130.8	88.7
37"	28"	195.0	177.2
	36-3/8"	135.1	120.1
	50-5/8"	102.4	91.0
	63"	82.3	73.1
53-1/8"	28"	165.2	123.4
	36-3/8"	125.4	83.8

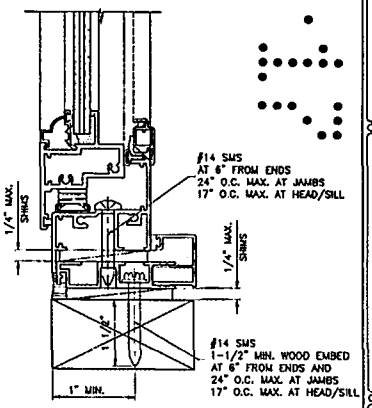
ALUMINUM BUCK FRAMING DETAILS

REFER TO SHEETS 3 THRU 6 FOR WINDOW CAPACITIES
USE LOWER APPLICABLE VALUES.

NOTE:
ALUM BUCK ANCHORS TO BE INTO CONCRETE AT HEAD & SILL.
MAY BE INTO FILLED CMU AT JAMBS.

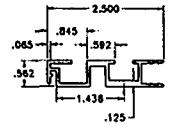


INSTALLATION TYPE '5'
INTO MASONRY

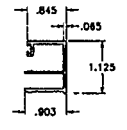


INSTALLATION TYPE '6'
2BY WOOD BUCK OR WOOD STRUCTURES

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING ALUMINUM BUCK SYSTEM



ALUMINUM BUCK
6063-T6



OPTIONAL COVER
6063-T6

Engr. JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

MAY 04 2015

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 15-0512.21
Expiration Date OCT 31 2018
By Miami-Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
3235 S.W. 87 AVE.
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-8778
COA # - NEL W99-04CG

SERIES-238 ALUM PROJECT OUT WINDOW
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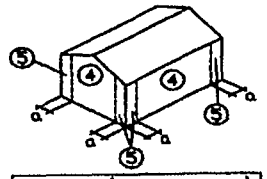
MIAMI, FL. 33172
TEL. (305) 593-6560 FAX. (305) 593-6592

revisions:			
NO	DATE	BY	description
E	09.22.06		GENERAL REV
F	10.25.12		UPDATED TO 2010 FBC
G	01.31.13		NO CHANGE THIS SHEET
H	09.18.14		NO CHANGE THIS SHEET
I	04.10.15		NO CHANGE THIS SHEET

date: 01-21-99
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no. W99-04
sheet 7 of 7



$$P := q_h \cdot (GCp - GCp_i)$$

V (mph)	175	1620 FBC for HVHZ, or Fig. 26.5-1a
Risk Category	II	Table 1.5-1, page 2
Exposure	D	Section 26.7
Kd	0.85	Table 26.6-1, page 250
Kzt	1	Figure 26.8-1, page 252
GCpi	0.18	-0.18 0.55
pitch of roof	3/12	14.0 degrees
theta	14.0 degrees	

Specialty Engineering Consultants, Inc.
1580 SW 30 Avenue, Suite #20
Boynton Beach, FL. 33426
FL. CA # 008217

Wind Velocities in South Florida				
	Dade	Broward	Palm Beach	
Risk Cat. 1	165	156	156	Low risk to humans (farms, sheds)
Risk Cat. 2	175	170	170	Single Family Residences
Risk Cat. 3&4	186	180	180	Essential Facilities

Instructions and limitations of Use	
1	Charts provide wind pressures based on the mean roof height. And shall not exceed 60'-0".
2	Design pressures are for an enclosed building (shutters or other impact resistance protection required).
3	User shall determine the mean roof height, (Eave height + Roof Peak)/2.
4	End zone distance is the lesser of 10% of length, 10% of width, or 40% of the mean roof height and not less than 3'-0"
5	If 50% of a component is in a particular zone then that component is considered to be in zone with the majority of the area. If questionable then place in Zone 5
6	Each component, window, door, mullion has a tributary area that is area to be used. Area of components to rounded down but shall not be less than 10 sf.
7	For NOA's that require a Kd=1.0 then multiply the values listed herein by 1.18.
8	Wind pressures are based on Allowable stress design.
9	Design pressures listed herein are valid for Exposures B and C and exposure D. (max roof height 30')
10	Charts and values listed herein are only valid when signed, dated, and sealed by Gary McDougle, PE #56214 or Mark LeBlanc, PE #35683 or Adam D. LeBlanc, PE#77012
11	Wind design pressures are calculated in accordance with ASCE 7-10, Method 2
12	No reduction is taken for slopes less than 10 degrees.

Mean Roof Height	Area of component 10.0 sf		Area of component 15.0 sf		Area of component 20.0 sf		Area of component 25.0 sf		Area of component 30.0 sf		Area of component 35.0 sf		Area of component 40.0 sf		Area of component 45.0 sf		Area of component 50.0 sf		Area of component 55.0 sf		Area of component 60.0 sf	
	Zone 4	Zone 5	Zone 4	Zone 5	Zone 4	Zone 5	Zone 4	Zone 5	Zone 4	Zone 5	Zone 4	Zone 5	Zone 4	Zone 5	Zone 4	Zone 5	Zone 4	Zone 5	Zone 4	Zone 5	Zone 4	Zone 5
15	48.6	48.6	47.1	47.1	46.5	46.5	46.0	46.0	45.5	45.5	45.0	45.0	44.5	44.5	44.0	44.0	43.5	43.5	42.9	42.9	42.4	42.4
	-52.7	-65.1	-51.2	-62.3	-50.7	-61.4	-50.3	-60.5	-49.8	-59.5	-49.3	-58.6	-48.8	-57.7	-48.3	-56.7	-47.8	-55.8	-47.3	-54.9	-46.8	-54.0
16	49.2	49.2	47.6	47.6	47.1	47.1	46.6	46.6	46.0	46.0	45.5	45.5	45.0	45.0	44.5	44.5	43.9	43.9	43.4	43.4	42.9	42.9
	-53.3	-65.8	-51.8	-63.0	-51.3	-62.1	-50.8	-61.1	-50.3	-60.2	-49.8	-59.3	-49.3	-58.3	-48.8	-57.4	-48.3	-56.4	-47.8	-55.5	-47.3	-54.6
17	49.7	49.7	48.1	48.1	47.6	47.6	47.0	47.0	46.5	46.5	46.0	46.0	45.5	45.5	44.9	44.9	44.4	44.4	43.9	43.9	43.4	43.4
	-53.9	-66.5	-52.4	-63.7	-51.9	-62.7	-51.4	-61.8	-50.9	-60.8	-50.4	-59.9	-49.8	-58.9	-49.3	-58.0	-48.8	-57.0	-48.3	-56.1	-47.8	-55.1
18	50.2	50.2	48.6	48.6	48.0	48.0	47.5	47.5	47.0	47.0	46.5	46.5	45.9	45.9	45.4	45.4	44.9	44.9	44.3	44.3	43.8	43.8
	-54.4	-67.2	-52.9	-64.3	-52.4	-63.4	-51.9	-62.4	-51.4	-61.4	-50.9	-60.5	-50.3	-59.5	-49.8	-58.6	-49.3	-57.6	-48.8	-56.7	-48.3	-55.7
19	50.6	50.6	49.0	49.0	48.5	48.5	48.0	48.0	47.4	47.4	46.9	46.9	46.4	46.4	45.8	45.8	45.3	45.3	44.7	44.7	44.2	44.2
	-54.9	-67.8	-53.4	-64.9	-52.9	-64.0	-52.4	-63.0	-51.8	-62.0	-51.3	-61.1	-50.8	-60.1	-50.3	-59.1	-49.8	-58.2	-49.3	-57.2	-48.8	-56.2
20	51.1	51.1	49.5	49.5	48.9	48.9	48.4	48.4	47.9	47.9	47.3	47.3	46.8	46.8	46.2	46.2	45.7	45.7	45.1	45.1	44.6	44.6
	-55.5	-68.4	-53.9	-65.5	-53.4	-64.5	-52.8	-63.6	-52.3	-62.6	-51.8	-61.6	-51.3	-60.6	-50.8	-59.7	-50.2	-58.7	-49.7	-57.7	-49.2	-56.7
21	51.5	51.5	49.9	49.9	49.4	49.4	48.8	48.8	48.3	48.3	47.7	47.7	47.2	47.2	46.6	46.6	46.1	46.1	45.5	45.5	45.0	45.0
	-55.9	-69.0	-54.3	-66.1	-53.8	-65.1	-53.3	-64.1	-52.8	-63.1	-52.2	-62.1	-51.7	-61.1	-51.2	-60.2	-50.7	-59.2	-50.1	-58.2	-49.6	-57.2
22	52.0	52.0	50.3	50.3	49.8	49.8	49.2	49.2	48.7	48.7	48.1	48.1	47.6	47.6	47.0	47.0	46.5	46.5	45.9	45.9	45.4	45.4
	-56.4	-69.6	-54.8	-66.6	-54.2	-65.6	-53.7	-64.6	-53.2	-63.6	-52.7	-62.6	-52.1	-61.6	-51.6	-60.7	-51.1	-59.7	-50.5	-58.7	-50.0	-57.7
23	52.4	52.4	50.7	50.7	50.1	50.1	49.6	49.6	49.0	49.0	48.5	48.5	47.9	47.9	47.4	47.4	46.8	46.8	46.3	46.3	45.7	45.7
	-56.8	-70.1	-55.2	-67.1	-54.7	-66.1	-54.1	-65.1	-53.6	-64.1	-53.1	-63.1	-52.5	-62.1	-52.0	-61.1	-51.5	-60.1	-50.9	-59.1	-50.4	-58.1
24	52.7	52.7	51.1	51.1	50.5	50.5	50.0	50.0	49.4	49.4	48.8	48.8	48.3	48.3	47.7	47.7	47.2	47.2	46.6	46.6	46.0	46.0
	-57.2	-70.6	-55.6	-67.6	-55.1	-66.6	-54.5	-65.6	-54.0	-64.6	-53.5	-63.6	-52.9	-62.6	-52.4	-61.6	-51.9	-60.6	-51.3	-59.6	-50.8	-58.6
25	53.1	53.1	51.4	51.4	50.9	50.9	50.3	50.3	49.7	49.7	49.2	49.2	48.6	48.6	48.1	48.1	47.5	47.5	46.9	46.9	46.4	46.4
	-57.6	-71.1	-56.0	-68.1	-55.5	-67.1	-54.9	-66.1	-54.4	-65.1	-53.8	-64.0	-53.3	-63.0	-52.8	-62.0	-52.2	-61.0	-51.7	-60.0	-51.1	-59.0
26	53.5	53.5	51.8	51.8	51.2	51.2	50.7	50.7	50.1	50.1	49.5	49.5	49.0	49.0	48.4	48.4	47.8	47.8	47.3	47.3	46.7	46.7
	-58.0	-71.6	-56.4	-68.6	-55.8	-67.5	-55.3	-66.5	-54.8	-65.5	-54.2	-64.5	-53.7	-63.5	-53.1	-62.4	-52.6	-61.4	-52.0	-60.4	-51.5	-59.4
27	53.8	53.8	52.1	52.1	51.6	51.6	51.0	51.0	50.4	50.4	49.8	49.8	49.3	49.3	48.7	48.7	48.1	48.1	47.6	47.6	47.0	47.0
	-58.4	-72.1	-56.8	-69.0	-56.2	-68.0	-55.7	-67.0	-55.1	-65.9	-54.6	-64.9	-54.0	-63.9	-53.5	-62.9	-52.9	-61.8	-52.4	-60.8	-51.8	-59.8
28	54.2	54.2	52.5	52.5	51.9	51.9	51.3	51.3	50.7	50.7	50.2	50.2	49.6	49.6	49.0	49.0	48.4	48.4	47.9	47.9	47.3	47.3
	-58.8	-72.5	-57.1	-69.4	-56.6	-68.4	-56.0	-67.4	-55.5	-66.3	-54.9	-65.3	-54.4	-64.3	-53.8	-63.2	-53.3	-62.2	-52.7	-61.2	-52.1	-60.1
29	54.5	54.5	52.8	52.8	52.2	52.2	51.6	51.6	51.0	51.0	50.5	50.5	49.9	49.9	49.3	49.3	48.7	48.7	48.2	48.2	47.6	47.6
	-59.1	-73.0	-57.5	-69.9	-56.9	-68.8	-56.4	-67.8	-55.8	-66.8	-55.3	-65.7	-54.7	-64.7	-54.1	-63.6	-53.6	-62.6	-53.0	-61.6	-52.5	-60.5
30	54.8	54.8	53.1	53.1	52.5	52.5	51.9	51.9	51.3	51.3	50.8	50.8	50.2	50.2	49.6	49.6	49.0	49.0	48.4	48.4	47.9	47.9
	-59.5	-73.4	-57.8	-70.3	-57.3	-69.2	-56.7	-68.2	-56.1	-67.1	-55.6	-66.1	-55.0	-65.1	-54.5	-64.0	-53.9	-63.0	-53.3	-61.9	-52.8	-60.9

MAR 30 2017

STATE OF FLORIDA PROFESSIONAL ENGINEER

B1701102

Florida Solar & Air, Inc.
11912 Miramar Pkwy. • Miramar, FL 33025
Ph: (877) 310-0310 • Fax: (877) 515-0220
www.solarandair.com

FLORIDA solar&air

Job Number: _____
CBC058952, CAC1816475
EC13004514 & CGG131151017

Name: Maria Elena Gil Phone Res: (305) 538-7740 Mobile: (305) 283-2627
Address: 409 E San Marino City: Miami Beach ST: FL Zip: 33139

This contract is made and entered into this 14 day of March 20 17, by and between Florida Solar & Air, Inc., a Florida corporation ("FSA"), and owner(s) named above of the residence located at the address listed above ("Buyer" or "Owner").

Directions are viewed from the inside. On sliding glass doors active and fixed panels are identified. On casements and single French doors, the hinge is identified as either right hinge or left hinge. On double French doors the more active door is identified.

The Work: FSA agrees to perform the work described as follows:

1) Remove existing units to be replaced (NOTE: Removed items are likely to be damaged.)
2) Prepare openings as necessary to receive replacement units.
3) *WINDOWS:* ☐☐ CWS Vinyl Insulated ☐ Simonton Vinyl Insulated ☐ Other _____
☒ CGI ☐ TM ☐ ETI ☐ PGT Aluminum Insulated ☐ CGI ☐ TM ☐ ETI ☐ PGT Aluminum Non-Insulated
4) *DOORS:* Install ☐ TM ☒ CGI ☐ PGT Aluminum Insulated ☐ TM ☐ CGI ☐ PGT Aluminum Non-Insulated ☐ Other _____

Impact: (X) Non-Impact: ( ) Color: White: ____ Tan: ____ Bronze: X Grey: ____ Mill Finish: ____ Other: ____

Grids	Double Hung	Single Hung	2 – LR	Casement	Picture Window	Other
Yes ( ) No ( ) Standard ____ Custom ____	Qty ____ ACTIVE ACTIVE	Qty ____ FIXED ACTIVE	Qty ____ FA AF	Qty 12 FA AF	Qty ____ FA AF	Qty ____

Sliding Glass Door						Single French Doors	Double French Doors	Geometric
AA	AF	FA	RAAF	AAF	FAA	RH ( ) LH ( )	RH ( ) LH ( )	
Qty__	Qty__	Qty__	Qty__	Qty__	Qty__	Qty ____	Qty ____	Qty ____

Glass: Bronze INITIAL HERE

5) Work NOT to be replaced: the rest of house INITIAL HERE
6) If applicable, removing ✓ shutter panels, and/or _____ security bars. INITIAL HERE
7) Special Instructions: garage, front 1st Floor + Front 2nd Floor Bdrms shutter track.
8) Cleanup job debris and provide necessary permits and insurance. Should FSA be unable to obtain proper permits (for whatever reason) prior to commencement of any work, FSA shall refund any previous payment and this transaction shall be automatically cancelled.
9) Additional Work: (No finish work other than normal installation is to be done unless noted here) stucco, drywall, permit, engineering, window sill replacement included as needed.

Schedule: Contractor shall use best efforts to commence the work within @ 90 days after execution of the Contract (the "Commencement Date") and shall endeavor to complete all Work hereunder within 5 days after the Commencement Date. Installation dates cannot be guaranteed as Product(s) availability may vary.

Contract Price:

The TOTAL PRICE for all Labor and Materials is $ 21,000.00
Down Payment (30% down) $ 6,300.00
Balance Payable $ 14,700.00

Contract Price	$ 21,000
Sales Tax (__%)	$ 0
Total Contract Price	$ 21,000

Customer understands final payment due upon completion. INITIAL HERE

Financing: *Circle one: [YES or NO]* Owner elects to apply for financing of the above balance payable. If yes is circled, see financing agreement and related document.

Receipt of Final Payment: After receipt of final payment, 1) the inspection will be coordinated; 2) FSA will send Buyer the Manufacturer's Warranty; 3) FSA will provide Owner a Final Waiver and Release Lien and Contractor's Final Affidavit to Owner, substantially similar to the forms in Chapter 713, Florida Statues (2005).

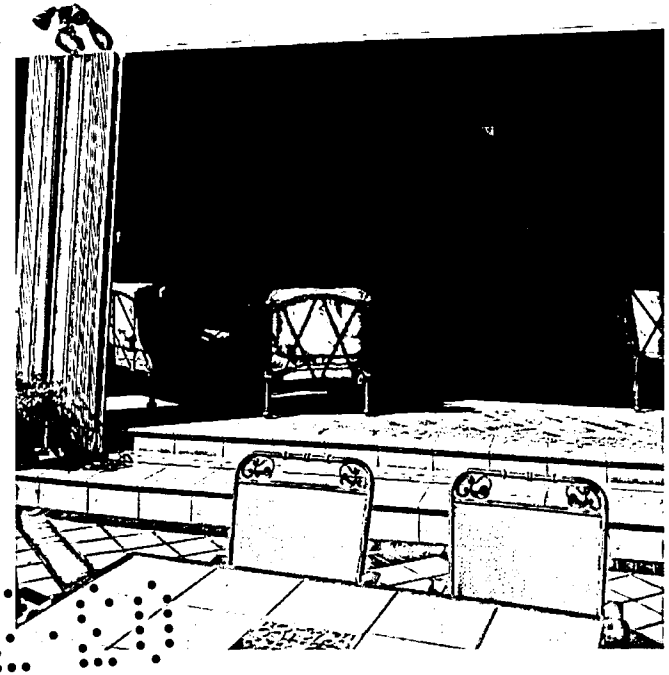
BUYER'S RIGHT TO CANCEL: This is a home solicitation sale, and if you do not want the goods or services, you may cancel this agreement by providing written notice to the seller in person, by telegram, or by mail. This notice must indicate that you do not want the goods or services and must be delivered or postmarked before midnight of the third business day after you sign this agreement. If you cancel this agreement, the seller may not keep all or part of any cash down payment. See attached notice of cancellation for an explanation of this right.

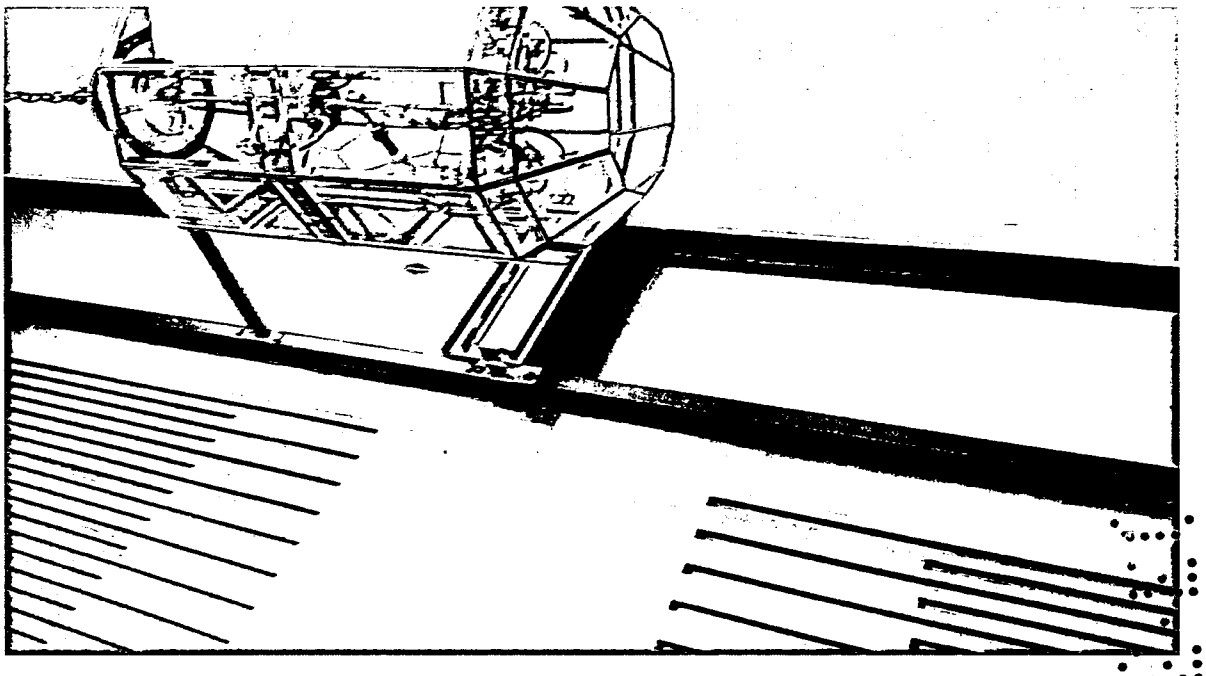
IN WITNESS WHEREOF, the Parties hereto have executed this contract, under seal, as of the day and year first above written.

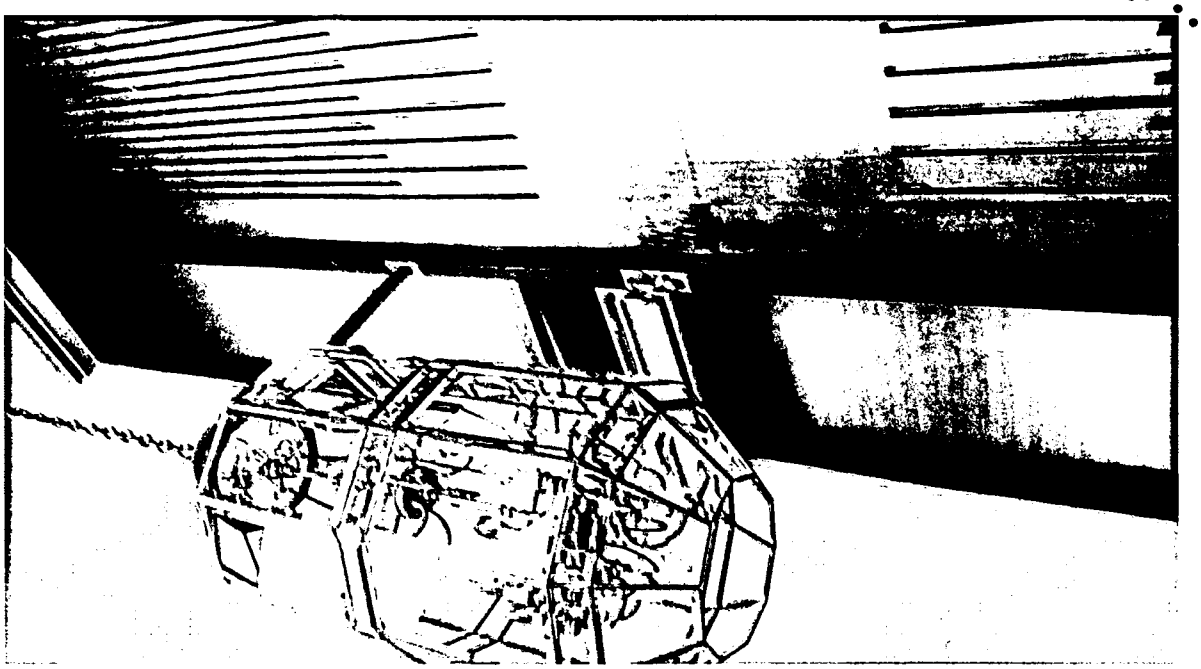
Buyer/Owner: Maria Elena Gil
(Signature of Owner)
(Signature of Owner)

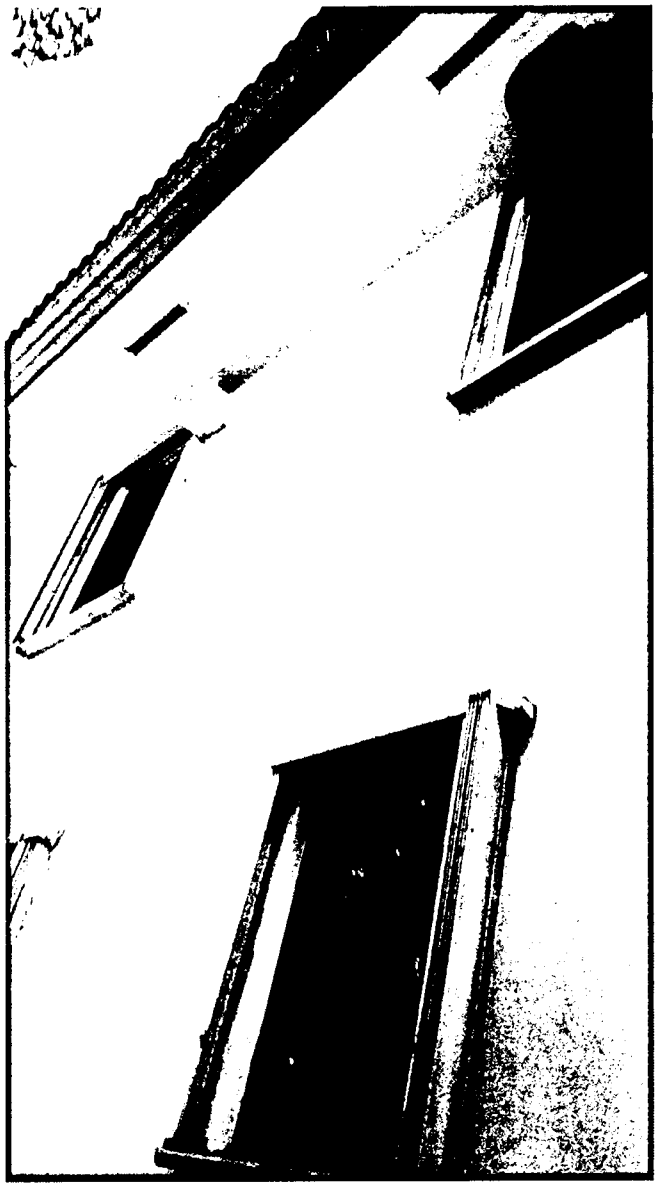
FSA
By: Terri Rovera
(Name & Title)
3/14/17
(Date)

Home Owners Association
YES ( ) NO (X)
Name: _____ Phone #: _____
Building Name: _____





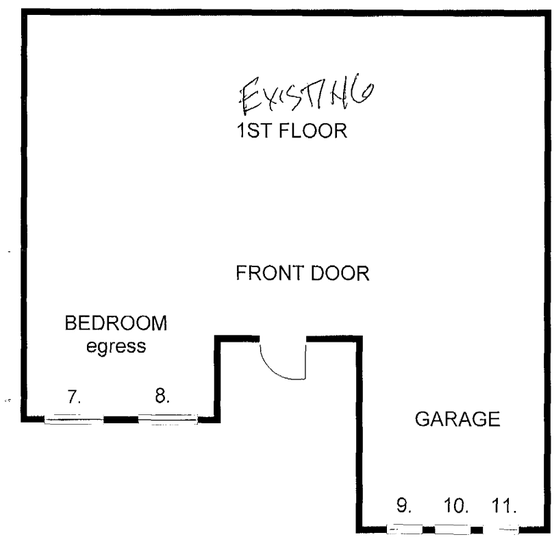


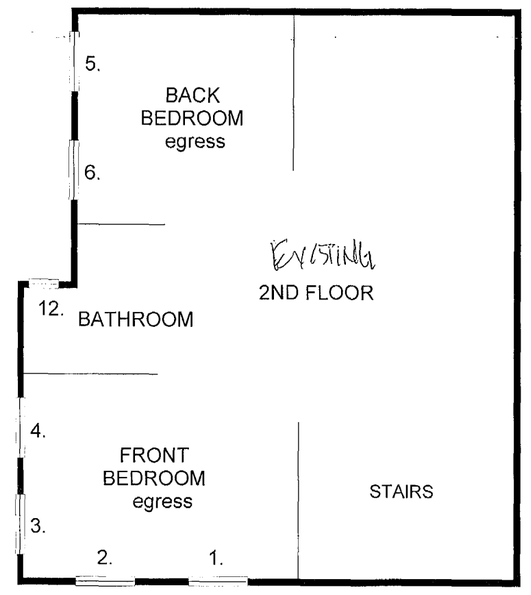


BR1701102

JOB DESCRIPTION:
WINDOW REPLACEMENT
12 OPENINGS

1. Project Out Window 36-7/8" x 25" 110/145.4 NOA #15-0512.21	2. Project Out Window 36-7/8" x 25" 110/145.4 NOA #15-0512.21
3. Casement Window 36-3/4" x 50" 74.7/74.7 NOA #15-0512.19	4. Casement Window 36-3/4" x 50" 74.7/74.7 NOA # 15-0512.19
5. Casement Window 37" x 50-1/4" 74.7/74.7 NOA #15-0512.19	6. Casement Window 37" x 50-1/4" 74.7/74.7 NOA #15-0512.19
7. Casement Window 37" x 72-1/2" 59.8/59.8 NOA #15-0512.19	8. Casement Window 36-3/4" x 72-1/2" 59.8/59.8 NOA #15-0512.19
9. Casement Window 37" x 72-3/4" 59.8/59.8 NOA #15-0512.19	10. Casement Window 36-3/4" x 72-3/4" 59.8/59.8 NOA #15-0512.19
11. Casement Window 36-3/4" x 72-3/4" 59.8/59.8 NOA #15-0512.19	12. Project Out Window 36-1/2" x 18-7/8" 110/145.4 NOA #15-0512.21





MARIA GIL
409 E SAN MARINO DR
MIAMI BEACH, FL 33139

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

BUILDING: FM 3/30/17
ZONING: 3/30/17
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
OTHER: 3/30/17
WORKS:

BR70110C
409 San Mateo

BR1701102.

JOB DESCRIPTION:
WINDOW REPLACEMENT
12 OPENINGS

No longer replacing openings 7,8,11

1. Project Out
Window
36-7/8" x 25"
110/145.4
NOA #15-0512.21

1. Project Out
Window
36-7/8" x 25"
110/145.4
NOA #15-0512.21

3. Casement
Window
36-3/4" x 50"
74.7/74.7
NOA #15-0512.19

4. Casement
Window
36-3/4" x 50"
74.7/74.7
NOA # 15-0512.19

5. Casement
Window
37" x 50-1/4"
74.7/74.7
NOA #15-0512.19

6. Casement
Window
37" x 50-1/4"
74.7/74.7
NOA #15-0512.19

7. Casement
Window
37" x 72-1/2"
59.8/59.8
NOA #15-0512.19

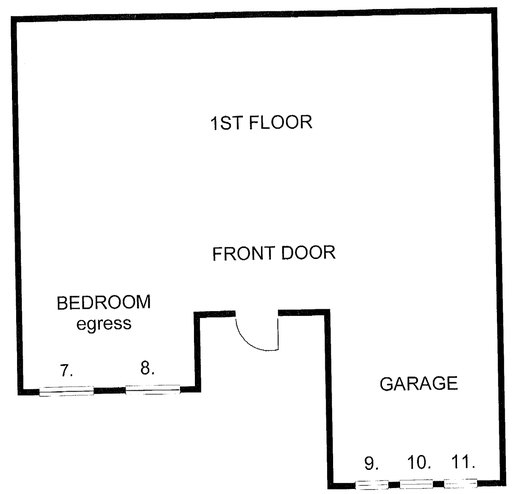
8. Casement
Window
36-3/4" x 72-1/2"
59.8/59.8
NOA #15-0512.19

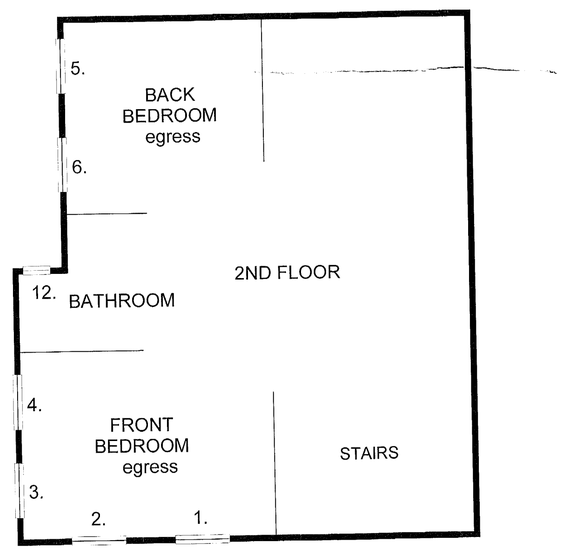
9. Casement
Window
37" x 72-3/4"
59.8/59.8
NOA #15-0512.19

10. Casement
Window
36-3/4" x 72-3/4"
59.8/59.8
NOA #15-0512.19

11. Casement
Window
36-3/4" x 72-3/4"
59.8/59.8
NOA #15-0512.19

12. Project Out
Window
36-1/2" x 18-7/8"
110/145.4
NOA #15-0512.21





MARIA GIL
409 E SAN MARINO DR
MIAMI BEACH, FL 33139

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

BUILDING: JB 5-5-17
ZONING: ~~EM 5/3/17~~
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
PUBLIC WORKS: 5/3/17
FINANCIAL: VF 5.5.17
OTHER:
NOTES:

...the requirement of this pr... ...be
...cable to this property ...
...County and there ma...
...other governmental entities such ...
...agencies or federal agencies.
The City of Miami Beach assumes no respons...
results ... ...ans which are approved sub...
... Local Laws, Rules, and Regulat...

BR1701102
409 San Marino Dr

RV1703935
BA1701102
409 E San Marino Dr

AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

Client: Florida Solar and Air, Inc — Date: Jul 27, 2017

Project Name: Gil Residence — Engineered By: CG

Project Desc.: 409 E SAN MARINO DR — Checked By: CM

MIAMI BEACH, FL 33139

AFC Number: 17-1146 — Building Height (ft.) : 30

Design Criteria:

i, Florida Building Code 2014

ii, Wind Loads are calculated as per ASCE 7-10.

General Notes:

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's districts, state agencies or federal agencies.

The city of Miami Beach assumes no responsibility for accuracy of these plans which are approved by us for compliance with all Federal, State, and Local laws, Rules, and Regulations.

- *Any deviations from conditions shown on calculations or drawings shall be engineered separately.*
- *Al-Farooq Corporation will not provide a letter of compliance / inspection report unless called during installation.*
- *Engineering drawings are checked for structural requirements only.*

Additional Notes:

- *Weighted Average Calculations and Qualification Letter*

Disclaimer:

- *This document is not valid without the embossed seal of an engineer employed by Al-Farooq Corporation.*
- *No portion of this document may be used or reproduced in any manner. Unless authorized by signing professional*

JUL 27 2017

Javad Ahmad, P.E. **FL# 70592**

EB C.A.N. #3538

9360 Sunset Drive, Suite 220 | Miami, FL 33173 | T: 305.264.8100 | F: 305.262.6978 | www.afceng.com | alfarooq@afceng.com

Florida Solar and Air, Inc	Gil Residence 409 E SAN MARINO DR MIAMI BEACH, FL 33139	Wind Speed (mph) 175 Importance Factor 1.00 Exposure Category D Risk Category 2	Mean Roof Height [h] (ft) 30.00 Height Above Gnd. Level [z] (ft) 30.00 Horizontal Dimen. of Bldg. (ft) 102.00 Roof Slope (deg.) >10 Type of Building With Impact Protection
Coefficient Kh 1.16	Coefficient Kzt 1.00	Coefficient Kz 1.16	Coefficient Kd 0.85
Velocity Pressure Evaluated @z [qz] (lb/ft^2) 77.30		Velocity Pressure Evaluated @h [qh] (lb/ft^2) 77.30	

		Component Size				Gcp Coefficients				Gcpi Coeff.		Design Wind Pressures (lb/ft^2)				
Mark	Comp Type	W (in)	H (in)	S (in)	A ft^2	Z4+	Z5+	Z4-	Z5-	Pos	Neg	Z4+	Z4-	Z5+	Z5-	In Zone
8					10.00	1.00	1.00	-1.10	-1.40	0.18	-0.18	54.7	-59.4	54.7	-73.3	

JUL 27 2017

ASCE 7-10 WIND LOADS ON COMPONENTS AND CLADDING : AL-FAROOQ CORPORATION, 1235 S.W. 87th AVE, MIAMI FL. 33174. TEL:305-264-8100

Engineers Seal	Engineers Name And Signature	Design Date	Design Reference Number
		7/27/2017 10:12:24 AM	17-1146

W-1

P-1

CMB

07.31.17

JOB DESCRIPTION:
WINDOW REPLACEMENT
9 OPENINGS
No longer replacing
openings 7, 8, 11

1. Project Out Window 36-7/8" x 25" 110/145.4 NOA #15-0512.21	1. Project Out Window 36-7/8" x 25" 110/145.4 NOA #15-0512.21
3. Casement Window 36-3/4" x 50" 74.7/74.7 NOA #15-0512.19	4. Casement Window 36-3/4" x 50" 74.7/74.7 NOA # 15-0512.19
5. Casement Window 37" x 50-1/4" 74.7/74.7 NOA #15-0512.19	6. Casement Window 37" x 50-1/4" 74.7/74.7 NOA #15-0512.19
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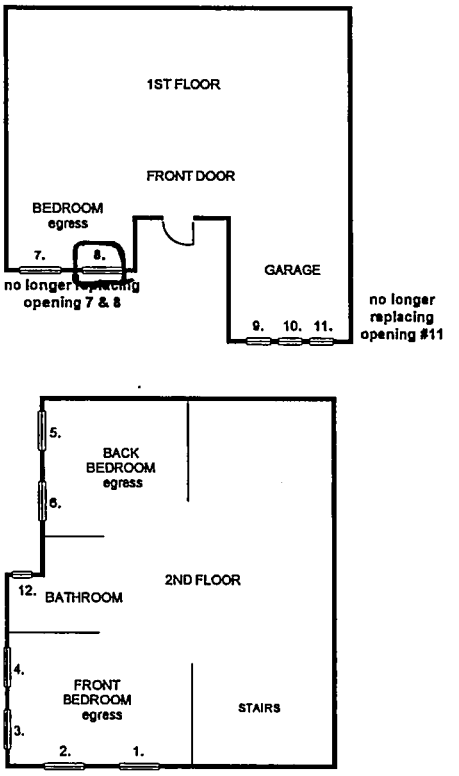
11. Casement Window 36-3/4" x 72-3/4" 59.8/59.8 NOA #15-0512.19	12. Project Out Window 36-1/2" x 18-7/8" 110/145.4 NOA #15-0512.21



MARIA GIL
409 E SAN MARINO DR
MIAMI BEACH, FL 33139

AL-FAROOQ CORPORATION
CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

June 26, 2017 AFC#17-1146

TO: Mr. Timothy Gallivan
Florida Solar and Air, Inc
11956 Miramar Parkway
Miramar, 33055

Re: Gil Residence
409 E San Marino Dr.
Miami Beach, FL 33139

Sub: Weighted Average

Prod: Series "238" Outswing Aluminum Casement Window– L.M.I.
NOA# 15-0512.19

Dear Mr. Gallivan,

In regard to the above referenced product, our office calculated the weighted average of the site-specific wind design pressures. As per our analysis, Mark#8 design loads are within the 5% of tested loads as per NOA#15-0512.19. Refer to attached weighted average calculations (A-1) for more details.

This is subject to the approval of the building department jurisdiction. If you have any questions, please feel free to contact our office.

Respectfully,

JUL 27 2017

Javad Ahmad, P.E.
Director of Engineering

9360 SW 72nd St, Ste. 220 | Miami, FL 33173 | T: 305.264.8100 | F: 305.262.6978 | www.afceng.com | alfarooq@afceng.com

AL-FAROOQ CORPORATION

Florida Solar and Air, Inc

Gil Residence

WEIGHTED AVERAGE CALCULATIONS

BUILDING LEAST HORIZONTAL DIMENSION = 50.00 '

WIDTH OF ZONE 5 = 10% OF BUILDING LEAST HORIZONTAL DIMENSION = 60.00 "

ENG.	SIZE		AREA	Pd (psf) ±			CRITICAL DISTANCE X	DISTANCE IN ZONE 4 *	DISTANCE IN ZONE 5 **	Pd (psf) ± AVG.	
MK. #	WIDTH	HEIGHT		ZONE 4 (+)	ZONE 4 (-)	ZONE 5 (-)	FROM CORNER	(IN)	(IN)	(+)	(-)
8	36.75	72.50	18.50	54.70	59.40	73.30	57.00	33.75	3.00	54.70	60.53

As per comparative analysis (see sheet 2), the above door is approved for

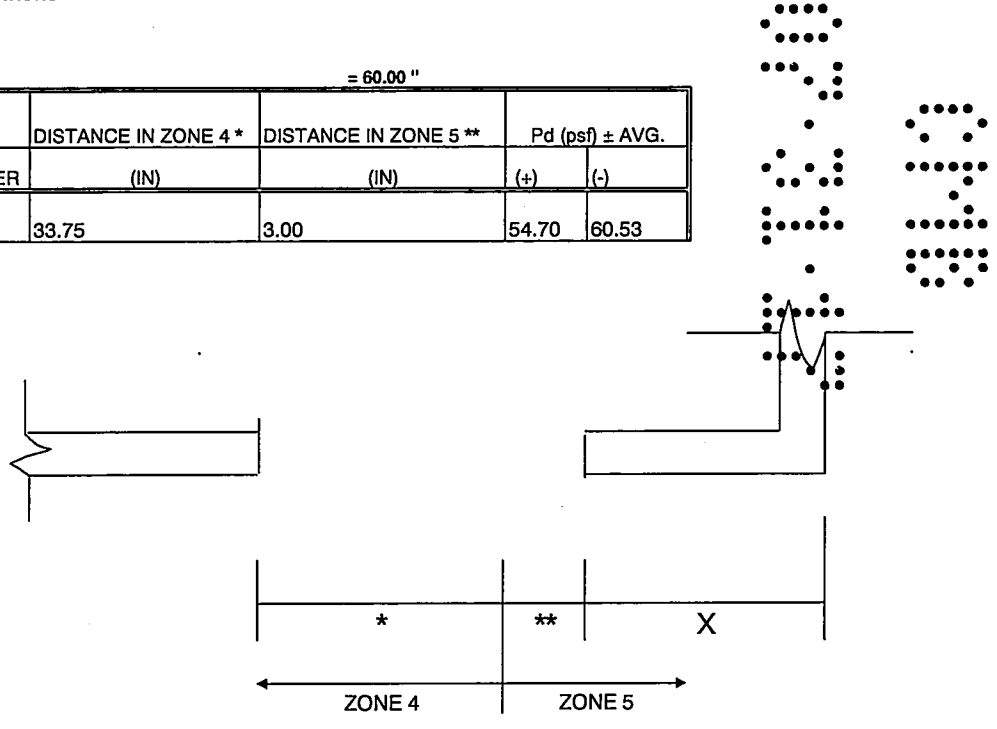
+ 59.8 > + 54.7 OK//
Tested Load 59.8+5% = 62.79 > Design Load 60.5 // OK to use.

+ 59.8 > + 60.5 Subject to approval of building official of jurisdiction.

Pd avg. = ((Pd Zone 4 x Dist in Zone 4) + (Pd Zone 5 x Dist in Zone 5)) / Width of opening

* DISTANCE IN ZONE 4 = DISTANCE IN ZONE 5 - WIDTH OF OPENING

** DISTANCE IN ZONE 5 = WIDTH OF ZONE 5 - DISTANCE FROM CORNER

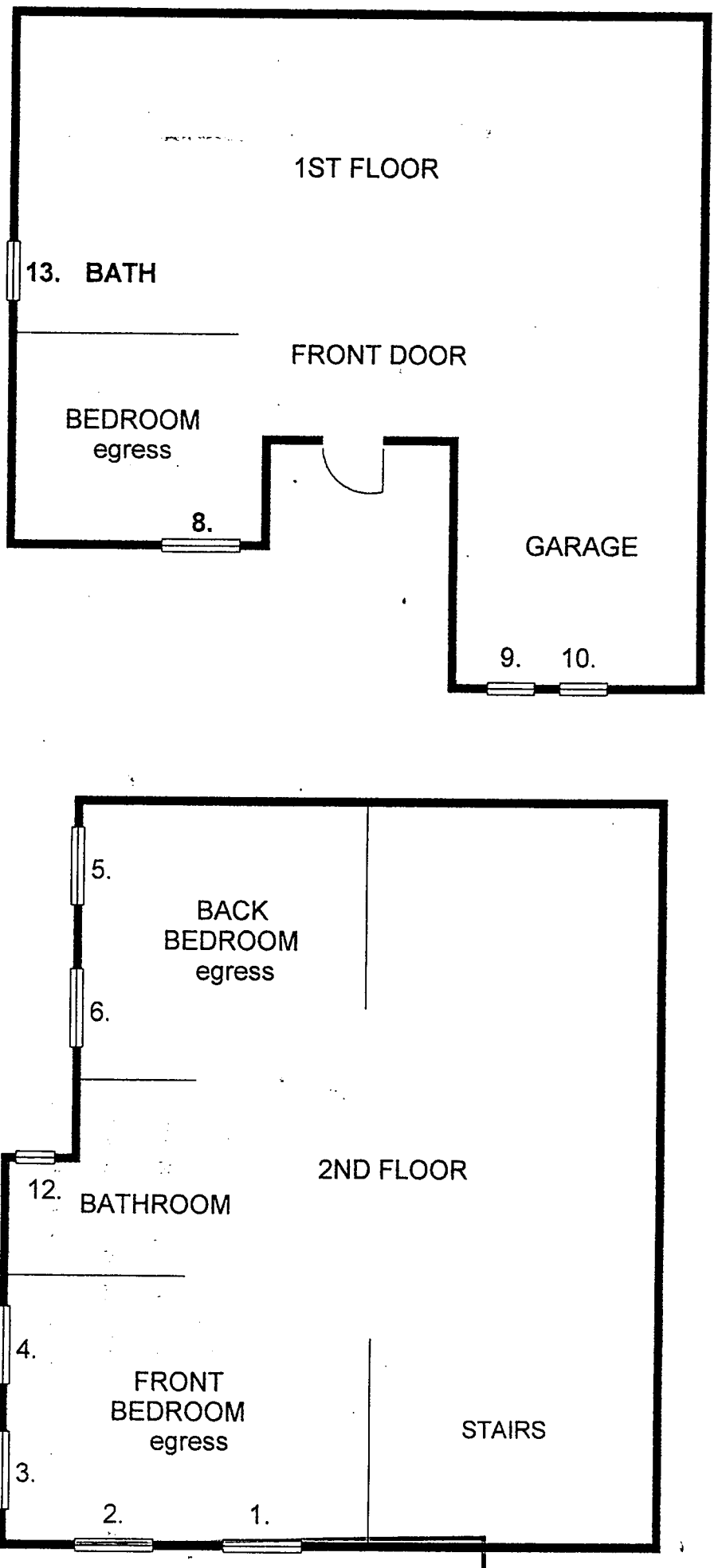


JUL 27 2017

RV1703835
BR1701102
409 E San Marino Dr

JOB DESCRIPTION:
WINDOW REPLACEMENT
9 OPENINGS
No longer replacing openings 7, 11 revised the floor plan and deleted those openings. Added opening #13 for window replacement to impact. Attached is a engineering Letter in reference to the design pressure for Opening #8

1. Project Out Window 36-7/8" x 25" 110/145.4 NOA #15-0512.21	2. Project Out Window 36-7/8" x 25" 110/145.4 NOA #15-0512.21
3. Casement Window 36-3/4" x 50" 74.7/74.7 NOA #15-0512.19	4. Casement Window 36-3/4" x 50" 74.7/74.7 NOA # 15-0512.19
5. Casement Window 37" x 50-1/4" 74.7/74.7 NOA #15-0512.19	6. Casement Window 37" x 50-1/4" 74.7/74.7 NOA #15-0512.19
8. Casement Window 36-3/4" x 72-1/2" 59.8/59.8 NOA #15-0512.19	9. Casement Window 37" x 72-3/4" 59.8/59.8 NOA #15-0512.19
10. Casement Window 36-3/4" x 72-3/4" 59.8/59.8 NOA #15-0512.19	12. Project Out Window 36-1/2" x 18-7/8" 110/145.4 NOA #15-0512.21
13. Project Out Window 37" x 25" 110/145.4 NOA #15-0512.21	



MARIA GIL
409 E SAN MARINO DR
MIAMI BEACH, FL 33139

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's 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.

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

*BUILDING:	✓ 7/31/17
*ZONING:	✓ 7/31/17
PLUMBING:	
ELECTRICAL:	
MECHANICAL:	
FIRE PREVENTION:	
*FLOOD:	✓ 7/31/17
PUBLIC WORKS:	
*STRUCTURAL:	✓ VF 7-31-17
ELEVATOR:	
ROOFING:	

RV1703835
BA1701102
409 E San Marino DR

05-31-15
CNB