TRACY CONSULTANTS INC., 4660 SW 128th AVE., FT. LAUD., 33330
PH. (954)434-5035, MOB. (954) 651-2840, FAX(954) 434-1675

B0802336 PLELOR

TAB08-040

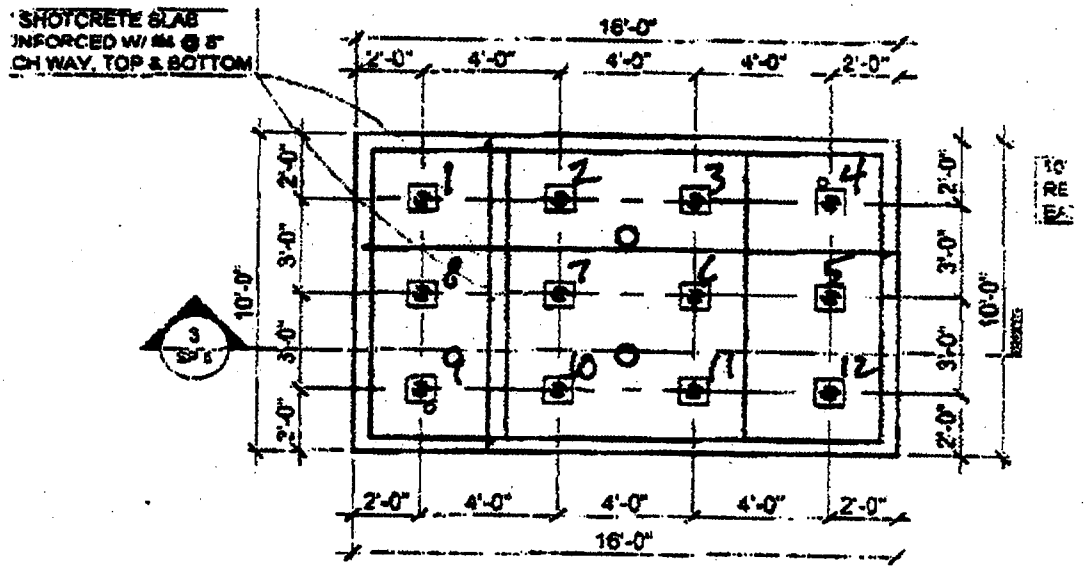
DATE; APRIL 4, 2008 JLU ENTERPRISES, INC.
PERMIT# ,ADDRESS 5800 NORTH BAY ROAD, MIAMI BEACH, FL..
GEN. CONTR: FRAME-PRO CONSTRUCTION, RESIDENCE

PIN PILE INSTALLATION			PIN PILE INSTALLATION		
PILE NO.	PILE DEPTH FT.	PILE CAPACITY	PILE NO.	PILE DEPTH FT.	PILE CAPACITY
1	13	5 TONS	13	13	5 TONS
2	13	"	14	13	"
3	13	"	15	13	"
4	13	"	16	13	"
5	13	"	17	13	"
6	13	"	18	13	"
7	13	"	19	13	"
8	13	"	20	13	"
9	13	"	21	13	"
10	13	"	22	13	"
11	13	"	23	13	"
12	13	"	24	13	"

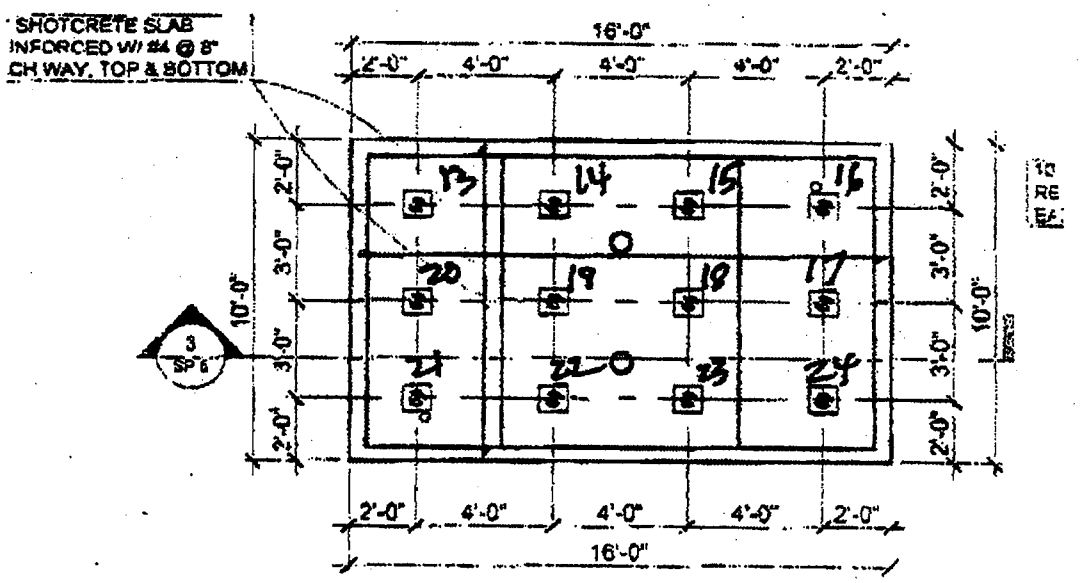
NOTES:
1. GROUT MIX = 5000 PSI IN 28 DAYS.
2. PIN-PILE CONSISTED OF 3" SCH. 40 STEEL PIPE, GENERALLY SLEEVED & WELDED IN 7 FOOT SEGMENTS AND PILES 1 THRU 12 ARE DRIVEN WITH 140 LB. AIR HAMMER TO REFUSAL AND 13 THRU 24 ARE DRIVEN WITH A MACHINE MOUNTED DRIVER AND FILLED WITH GROUT , ONE #5 BAR EMBEDDED IN THE PIPE AND TOPPED WITH A 6x6x½" STEEL PLATE w(2) #5 HOOKED BARS WELDED THERETO.
3. PILE LAYOUT IS ATTACHED.

Robert Tracy 4/16/08

ROBERT N. TRACY, P.E., 11363,
PRESIDENT



PILES IN REAR FOR NEW SLAB
(MACHINE HAMMER)



PILES IN FRONT OF HOUSE FOR POND
(AIR HAMMER)

11/11/08

CITY OF MIAMI BEACH
BUILDING DEPARTMENT
1700 CONVENTION CENTER DRIVE
2ND FLOOR - CITY HALL
MIAMI BEACH, FL 33139

NOTICE TO THE CITY OF MIAMI BEACH BUILDING DEPARTMENT OF EMPLOYMENT AS SPECIAL INSPECTOR UNDER THE FLORIDA BUILDING CODE

I, (we) have been retained by: Mr. Gamon to perform special inspector services under the Florida Building Code at the 5800 N. Bay Rd. project on the below listed structures as of 4/4/08 (date). I am a professional engineer licensed in the State of Florida.

Process Number: B0802336 **Master Permit (IF APPLICABLE):** _____

- ● Special Inspector for Pilings, FBC 1822.1.20
- ○ Special Inspector for Soil Compaction, FBC 1820.3.1
- ○ Special Inspector for Precast Attachments, FBC 1927.12.2 (By P.E. or R.A..)
- ○ Special Inspector for Reinforced Masonry, FBC 2122.4
- ○ Special inspection for Steel Bolted & Welded Connections, FBC 2218.2 (By P.E. or R.A..)
- ○ Special Inspector for Trusses over 35 feet long or 6 feet high, FBC 2319.17.2.4.2 (By P.E. or R. A..)
- ○ Special Inspector for _____

NOTE: Only the marked boxes apply.

The following individual's) employed by this firm or me are authorized representatives to perform inspections*

1. ROBERT N TRACY
2. _____
3. _____
4. _____

***NOTE: FBC 2001 HVZ sections 1927.12.2, 2218.2, 2319.17.4.2 requires either a Registered professional Engineer or Registered Architect to perform the actual inspections.**

I, (we) will notify the City of Miami Beach Building Department of any changes regarding authorized personnel performing inspection services.

I, (we) understand that a Special Inspection Log for each building must be displayed in a convenient location on the site for reference by the City of Miami Beach Building Department Inspector. All mandatory inspections, as required of the Florida Building Code, Inspection performed by the Special Inspector hired by the Owner are in addition to the mandatory inspections performed by the Building Department. Further, upon completion of the work under each building permit, I will submit to the Building Inspector at the time of final inspection the completed Inspection Log form and sealed statement that, to the best of my knowledge, belief and professional judgment those portions outlined above meet the intent of the Florida Building Code and are in subsequent accordance with the approved plans.

Signed and Sealed

11363
License Number

Date: 4/1/08

Architect/Engineer Signature: _____

Architect/Engineer Name Printed: ROBERT N TRACY

Address: 4660 SW 128 Ave, DAVIE, FL

Phone Number: 954-434-5035

Owner/Agent Signature: _____

Owner/Agent Name Printed: MARK GAMON

Building Department Accepted By: _____ 4/10/08

Residential Swimming Pool, Spa or Hot Tub Safety Act

Notice of Requirements

I (we) acknowledge that a new swimming pool, spa, or hot tub will be constructed or installed at 5800 NORTH BAY ROAD and hereby affirm that one of the following methods will be used to meet the requirements of Florida Statute Chapter 515, and Florida Building Code Section 242.2.

Please initial the method(s) to be used for your pool or spa.

______ The pool will be equipped with an approved safety pool cover that complies with ASTM F1346-91. (Submit Manufacturer specifications)

______ A removable child barrier (with one end that shall be removable without the aide of tools) in compliance with FBC424.17 will protect the pool perimeter. (Submit Manufacturer Specifications)

______ A combination of "non-dwelling" walls (fences, screen enclosures, etc.) will protect the perimeter. The plans must specify the type and location of all non-dwelling walls.

______ A combination of protection which incorporates dwelling walls with openings into the pool perimeter and complying with FBC Section 424.2.17.1.9 (2): All doors and windows providing direct access to the pool must be equipped with self close and self latch-locking mechanical devices installed a minimum of 54" above the threshold. (Submit specifications for approval)

MG A combination of protection which incorporates dwelling walls with openings into the pool perimeter and complying with FBC Section 424.2.17.1.9 (1): All doors and windows providing direct access to the pool shall be equipped with an exit alarm complying with UL 2017. (Submit Manufacturers specifications) UL 2017

In accordance with the Florida Building Code, a final inspection of the pool project will not be approved without compliance with Private Swimming Pool Safety Requirements, and upon expiration of the permit, the pool shall be presumed to be unsafe.

I understand that not having one of the above systems installed will constitute a violation of Chapter 515, F.S., and will be considered as committing a misdemeanor of the second degree, punishable as provided in Section 775.082 or Section 775.083 F.S. This form must be signed by the owner/agent and the prime contractor.

Owner/Agent Printed Name, Signature and date

State of Florida
County of Dade
Sworn and Subscribed before me this 10 day of Mar 2008
By ______ who is personally
Known X or produced identification.
Notary Public, State of Florida

EVELYN RODRIGUEZ
MY COMMISSION # DD 648557
EXPIRES: April 7, 2011
Bonded Thru Notary Public Underwriters

Prime Contractor Printed name, signature and date

State of Florida
County of Dade
Sworn and Subscribed before me this ___ day of ___ 20__
By ______ who is personally known
or produced ______ identification.
Notary Public, State of Florida

NOTARY PUBLIC-STATE OF FLORIDA
Miguel D. Martinez
Commission # DD384531
Expires: NOV. 07, 2008
Bonded Thru Atlantic Bonding Co., Inc.

Gramor Residence Spa / Koi Pond 2-19-08
5800 N Bay Rd. Miami Beach

- Punching shear

$V_c = 4\sqrt{f'c}\ b_o.d.$

$V_c = 4\sqrt{5000} \times 53.3 \times 6.75$

$\phi V_c = 101\ K$

$V_c = p_u \times$ Critical area

$V_u = 0.6 \times 3 \times 3.3$

$V_u = 6.1\ K < \phi V_c$

f'c = 5000 psi fy = 60 000 psi

Bench = 1.5 × 150 = 225 psf

Water = 1.5 × 62.4 = 94 psf

Slab = 0.83 × 150 = 125 psf

443 × 1.4 = 0.6 K/ft

Walls = 0.83 × 5.5 × 150 × 1.4 = 0.9 K

Wa (N/S) = 0.9 × 8.67 = 7.8 K

Wa (E/W) = 0.9 × 7.5 = 6.75 K

pile 3" ϕ d = 6.75

$b_o = \pi(b_c + d) = 53.3$ in

- Pile cap.

Trib. area = 3 × 3.3 = 9.9 S.F.

443 × 9.9 = $\frac{4,386}{2000}$ = 2.2 ton × 2 = 4.3 tons OK

- Hydrostatic Pressure A = 130 S.F. P = 46 LF Av depth = 3'

3-2Hz 1.0' uplift

Uplift = 1.0 × 62.4 = 62.4 psf

Slab = 0.83 × 144 = 120 psf

Walls = $\frac{0.5 \times 3.0 \times 46 \times 144}{130}$ = 76 psf

Total grav load = 120 + 76 = 196 psf. > 62.4 psf uplift

- Walls

$R_1 = \frac{1}{2} K_a \gamma h^2 = 162$ plf $\phi = 32°$ $\gamma = 120$ pcf h = 3.0' $K_a = 0.3$

$bd^2 = 108$ si

$M_u = \left(162 \times \frac{3}{3}\right) = 0.16$ K-F × 1.5 = 0.24 K-F

$R_u = \frac{2,916}{0.9 \times 108} = 30$ psi

$\rho_{min} = 0.0034 \times 12 \times 4 = 0.16$ si/f As supplied #3@8"

= 0.165 si/F

Ofelia Tabcada 2-19-08

OFELIA TABCADA, P.E.
FL REG. No. 53339
CIVIL ENGINEER

```
pppppp    ccccc    aaaaa
p     p  c     c  a     a
p     p  c     c        a
p     p  c         aaaaaa
p     p  c     c  a     a
p     p  c     c  a     a
pppppp    ccccc    aaaaaa
p
p

  AAA    DDDDD      OOO     SSSSS    SSSSS
 A   A   D    D    O   O   S     S  S     S
A     A  D     D  O     O  S        S
AAAAAAA  D     D  O     O   SSSSS    SSSSS
A     A  D     D  O     O        S        S    ( ttttt mm   mm  )
A     A  D    D    O   O   S     S  S     S   (   t   m m m m   )
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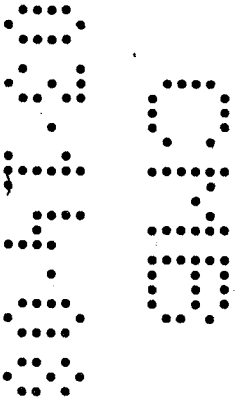


****

Computer program for ANALYSIS AND DESIGN OF SLAB SYSTEMS

****

Licensee stated above acknowledges that Portland Cement Association(PCA) is not and cannot be responsible for either the accuracy or adequacy of the material supplied as input for processing by the ADOSS(tm) computer program. Furthermore, PCA neither makes any warranty expressed nor implied with respect to the correctness of the output prepared by the ADOSS(tm) program. Although PCA has endeavored to produce ADOSS(tm) error free the program is not and cannot be certified infallible. The final and only responsibility for analysis, design and engineering documents is the licensees. Accordingly, PCA disclaims all responsibility in contract, negligence or other tort for any analysis, design or engineering documents prepared in connection with the use of the ADOSS(tm) program.

Note: Further information and technical support on the ADOSS computer program is available through the CPCA Web site at: "www.cpca.ca".

FILE NAME C:\PROGRA~1\ADOSS\DATA\GRAINONS.ADS

PROJECT ID. Grainor Residence

SPAN ID. N/S Direcction Spa

ENGINEER Ofelia Taboada

DATE 2/19/08
TIME 1:39:10

UNITS U.S. in-lb
CODE ACI 318-95

SLAB SYSTEM FLAT SLAB SYSTEM
FRAME LOCATION EXTERIOR

DESIGN METHOD STRENGTH DESIGN
MOMENTS AND SHEARS NOT PROPORTIONED

NUMBER OF SPANS 5

SOLID HEAD DIMENSIONS : AS INPUT BY ENGINEER

CONCRETE FACTORS	SLABS	BEAMS	COLUMNS
DENSITY(pcf)	150.00	150.00	150.00
TYPE	NORMAL WGT	NORMAL WGT	NORMAL WGT
f'c (ksi)	5.00	5.00	5.00
density factor	1.00	1.00	1.00
fr (psi)	530.30	530.30	530.30

REINFORCEMENT DETAILS: NON-PRESTRESSED
YIELD STRENGTH Fy = 60.00 ksi
DISTANCE TO RF CENTER FROM TENSION FACE:
AT SLAB TOP = 1.75 in OUTER LAYER
AT SLAB BOTTOM = 3.25 in OUTER LAYER
MINIMUM FLEXURAL BAR SIZE:
AT SLAB TOP = # 4
AT SLAB BOTTOM = # 4
MINIMUM SPACING:
IN SLAB = 6.00 in

SPAN/LOADING DATA

SPAN NUMBER	LENGTH L1 (ft)	Tslab (in)	WIDTH LEFT (ft)	L2*** RIGHT (ft)	SLAB SYSTEM	DESIGN STRIP (ft)	COLUMN STRIP** (ft)	UNIFORM LOADS S. DL (psf)	LIVE (psf)
1*	1.5	10.0	2.0E	1.5	2	3.5	.0	319.0	.0
2	3.3	10.0	2.0E	1.5	2	3.5	1.6	319.0	.0
3	3.3	10.0	2.0E	1.5	2	3.5	1.6	319.0	.0
4	3.3	10.0	2.0E	1.5	2	3.5	1.6	319.0	.0
5*	1.5	10.0	2.0E	1.5	2	3.5	.0	319.0	.0

* -Indicates cantilever span information.
** -Strip width used for positive flexure.
***-L2 widths are 1/2 dist. to transverse column.
"E"-Indicates exterior strip.

PARTIAL LOADING DATA

SPAN No.	LOAD No.	TYPE	PARTIAL DEAD LOADS Wa	Wb	La	Lb	LOAD No.	TYPE	PARTIAL LIVE LOADS Wa	Wb	La	Lb
1*	1	CONC	1.3	.0	.0	.0						
1*	2	UNIF	337.0	.0	.0	1.5						
2	1	UNIF	337.0	.0	.0	3.3						
3	1	UNIF	337.0	.0	.0	3.3						
4	1	UNIF	337.0	.0	.0	3.3						
5*	1	CONC	1.3	.0	1.5	.0						
5*	2	UNIF	337.0	.0	.0	1.5						

* -Indicates cantilever span information.

UNITS FOR:
UNIFORM LOAD: Wa.....plf La & Lb... ft
CONCENTRATED LOAD: Wa.....kips La..... ft
TRAPEZOIDAL LOAD: Wa & Wb..plf La & Lb... ft
MOMENT: Wa.....ft-k La..... ft
NOTE: Local effects of partial loadings are NOT considered by ADOSS, compute manually.

COLUMN/TORSIONAL DATA

COLUMN NUMBER	COLUMN ABOVE SLAB C1 (in)	C2 (in)	HGT (ft)	COLUMN BELOW SLAB C1 (in)	C2 (in)	HGT (ft)	CAPITAL** EXTEN. (in)	DEPTH (in)	COLUMN STRIP* (ft)	MIDDLE STRIP* (ft)
1	.0	.0	.0	3.5	.0	10.0	.0	.0	1.6	1.9
2	.0	.0	.0	3.5	.0	10.0	.0	.0	1.6	1.9
3	.0	.0	.0	3.5	.0	10.0	.0	.0	1.6	1.9
4	.0	.0	.0	3.5	.0	10.0	.0	.0	1.6	1.9

Columns with zero "C2" are round columns.
* -Strip width used for negative flexure.
**-Capital extension distance measured from face of column.

COLUMN NUMBER	TRANSVERSE BEAM WIDTH (in)	DEPTH (in)	ECCEN (in)	DROP PANEL/SOLID HEAD LEFT (ft)	RIGHT (ft)	WIDTH (ft)	THICK (in)	SUPPORT FIXITY* %
1	.0	.0	.0	.4	.4	.8	3.0	0%
2	.0	.0	.0	.4	.4	.8	3.0	0%
3	.0	.0	.0	.4	.4	.8	3.0	0%
4	.0	.0	.0	.4	.4	.8	3.0	0%

* -Support fixity of 0% denotes pinned condition.
Support fixity of 999% denotes fixed end condition.

LATERAL LOAD/OUTPUT DATA
****

LATERAL LOADS ARE NOT SPECIFIED

OUTPUT DATA
PATTERN LOADINGS: 1 THRU 4
PATTERN LIVE LOAD FACTOR (1-3) = 75%

LOAD FACTORS:
U = 1.40*D + 1.70*L
U = .75(1.40*D + 1.70*L + 1.70*W)
U = .90*D + 1.30*W

OUTPUT OPTION(S):
Input Echo
Column Service Load Table
Reinforcing Required
Deflections

**SPECIFIED DROP DEPTH AT COLUMN 1 GREATER THAN 1/4TH THE SUPPORT-DROP EDGE DISTANCE, EXCESS DEPTH ON SPAN 1 SIDE IGNORED FOR REINFORCEMENT CALCULATIONS.

**SPECIFIED DROP DEPTH AT COLUMN 1 GREATER THAN 1/4TH THE SUPPORT-DROP EDGE DISTANCE, EXCESS DEPTH ON SPAN 2 SIDE IGNORED FOR REINFORCEMENT CALCULATIONS.

**SPECIFIED DROP DEPTH AT COLUMN 2 GREATER THAN 1/4TH THE SUPPORT-DROP EDGE DISTANCE, EXCESS DEPTH ON SPAN 2 SIDE IGNORED FOR REINFORCEMENT CALCULATIONS.

**SPECIFIED DROP DEPTH AT COLUMN 2 GREATER THAN 1/4TH THE SUPPORT-DROP EDGE DISTANCE, EXCESS DEPTH ON SPAN 3 SIDE IGNORED FOR REINFORCEMENT CALCULATIONS.

**SPECIFIED DROP DEPTH AT COLUMN 3 GREATER THAN 1/4TH THE SUPPORT-DROP EDGE DISTANCE, EXCESS DEPTH ON SPAN 3 SIDE IGNORED FOR REINFORCEMENT CALCULATIONS.

**SPECIFIED DROP DEPTH AT COLUMN 3 GREATER THAN 1/4TH THE SUPPORT-DROP EDGE DISTANCE, EXCESS DEPTH ON SPAN 4 SIDE IGNORED FOR REINFORCEMENT CALCULATIONS.

**SPECIFIED DROP DEPTH AT COLUMN 4 GREATER THAN 1/4TH THE SUPPORT-DROP EDGE DISTANCE, EXCESS DEPTH ON SPAN 4 SIDE IGNORED FOR REINFORCEMENT CALCULATIONS.

**SPECIFIED DROP DEPTH AT COLUMN 4 GREATER THAN 1/4TH THE SUPPORT-DROP EDGE DISTANCE, EXCESS DEPTH ON SPAN 5 SIDE IGNORED FOR REINFORCEMENT CALCULATIONS.

**TOTAL UNFACTORED DEAD LOAD = 27.063 kips
LIVE LOAD = .000 kips

SERVICE LOAD TABLE FOR INPUT TO PCACOL SLENDER COLUMN DESIGN
****

COLUMN NUMBER 1		AXIAL LOAD (kips)	MOMENT AT TOP (ft-k)	MOMENT AT BOT (ft-k)
LOAD PTRN 1	DEAD	8.1	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 2	DEAD	8.1	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 3	DEAD	8.1	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 4	DEAD	8.1	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0

COLUMN NUMBER 2		AXIAL LOAD (kips)	MOMENT AT TOP (ft-k)	MOMENT AT BOT (ft-k)
LOAD PTRN 1	DEAD	5.4	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 2	DEAD	5.4	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 3	DEAD	5.4	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 4	DEAD	5.4	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0

SERVICE LOAD TABLE FOR INPUT TO PCACOL SLENDER COLUMN DESIGN
****

COLUMN NUMBER 3		AXIAL LOAD (kips)	MOMENT AT TOP (ft-k)	MOMENT AT BOT (ft-k)
LOAD PTRN 1	DEAD	5.4	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 2	DEAD	5.4	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 3	DEAD	5.4	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 4	DEAD	5.4	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0

COLUMN NUMBER 4		AXIAL LOAD (kips)	MOMENT AT TOP (ft-k)	MOMENT AT BOT (ft-k)
LOAD PTRN 1	DEAD	8.1	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 2	DEAD	8.1	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 3	DEAD	8.1	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 4	DEAD	8.1	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0

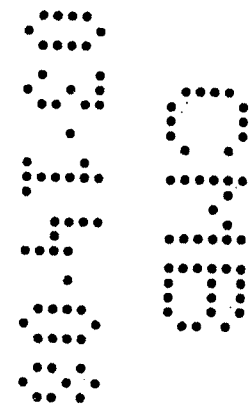
NOTE: Add dead, live and lateral axial loads as appropriate.
Top moments are those at joint bottom.
Bottom moments are those at joint top.
Moments are positive when counter-clockwise.
Axial forces positive when compressive.

N E G A T I V E R E I N F O R C E M E N T

COLUMN NUMBER	PATT NO.	LOCATION @COL	FACE	TOTAL DESIGN (ft-k)	COLUMN STRIP AREA (sq.in)	COLUMN STRIP WIDTH (ft)	MIDDLE STRIP AREA (sq.in)	MIDDLE STRIP WIDTH (ft)
1	4	||	R	5.0	.39	1.6	.42	1.9
2	4	L ||		-1.5	.39	1.6	.42	1.9
3	4	||	R	1.5	.39	1.6	.42	1.9
4	4	L ||		-5.0	.39	1.6	.42	1.9

P O S I T I V E R E I N F O R C E M E N T

SPAN NUMBER	PATT NO.	LOCATION FROM LEFT (ft)	TOTAL DESIGN (ft-k)	COLUMN STRIP AREA (sq.in)	COLUMN STRIP WIDTH (ft)	MIDDLE STRIP AREA (sq.in)	MIDDLE STRIP WIDTH (ft)
2	1	2.1	.1	.34	1.6	.42	1.9
3	1	1.6	1.7	.34	1.6	.42	1.9
4	1	1.2	.1	.34	1.6	.42	1.9



D E F L E C T I O N A N A L Y S I S

NOTES--The deflections below must be combined with those of the analysis in the perpendicular direction. Consult users manual for method of combination and limitations.

--Spans 1 and 5 are cantilevers.

--Time-dependent deflections are in addition to those shown and must be computed as a multiplier of the dead load(DL) deflection. See "CODE" for range of multipliers.

--Deflections due to concentrated or partial loads may be larger at the point of application than those shown at the centerline. Deflections are computed as from an average uniform loading derived from the sum of all loads applied to the span.

--Modulus of elasticity of concrete, Ec = 4287. ksi

SPAN NUMBER	DEAD LOAD Ieff. (in^4)	COLUMN STRIP DEFLECTION DUE TO: DEAD (in)	COLUMN STRIP LIVE (in)	COLUMN STRIP TOTAL (in)	MIDDLE STRIP DEFLECTION DUE TO: DEAD (in)	MIDDLE STRIP LIVE (in)	MIDDLE STRIP TOTAL (in)
1	4701.	.001	.000	.001	.000	.000	.000
2	4100.	.000	.000	.000	.000	.000	.000
3	4100.	.000	.000	.000	.000	.000	.000
4	4100.	.000	.000	.000	.000	.000	.000
5	4701.	.001	.000	.001	.000	.000	.000

* Program completed as requested *

```
ppppppp    ccccc    aaaaa
p     p  c     c  a     a
p     p  c     c        a
p     p  c         aaaaaa
p     p  c     c  a     a
p     p  c     c  a     a
ppppppp    ccccc    aaaaaa
p
p

  AAA    DDDDD      OOO     SSSSS    SSSSS
 A   A   D    D    O   O   S     S  S     S
A     A  D     D  O     O  S        S
AAAAAAA  D     D  O     O   SSSSS    SSSSS
A     A  D     D  O     O        S        S    ( ttttt mm   mm  )
A     A  D    D    O   O   S     S  S     S   (    t   m m m m   )
A     A  DDDDD      OOO     SSSSS    SSSSS     (   t   m  m  m  )
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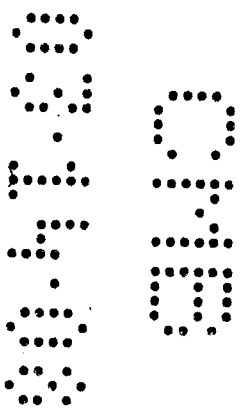

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Computer program for ANALYSIS AND DESIGN OF SLAB SYSTEMS

****

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Note: Further information and technical support on the ADOSS computer program is available through the CPCA Web site at: "www.cpca.ca".

FILE NAME C:\PROGRA~1\ADOSS\DATA\GRAINPEW.ADS

PROJECT ID. Grainor Residence

SPAN ID. E/W Direcction Koi

ENGINEER Ofelia Taboada

DATE 2/19/08
TIME 2:08:12

UNITS U.S. in-lb
CODE ACI 318-95

SLAB SYSTEM FLAT SLAB SYSTEM
FRAME LOCATION EXTERIOR

DESIGN METHOD STRENGTH DESIGN
MOMENTS AND SHEARS NOT PROPORTIONED

NUMBER OF SPANS 5

SOLID HEAD DIMENSIONS : AS INPUT BY ENGINEER

CONCRETE FACTORS	SLABS	BEAMS	COLUMNS
DENSITY(pcf)	150.00	150.00	150.00
TYPE	NORMAL WGT	NORMAL WGT	NORMAL WGT
f'c (ksi)	5.00	5.00	5.00
density factor	1.00	1.00	1.00
fr (psi)	530.30	530.30	530.30

REINFORCEMENT DETAILS: NON-PRESTRESSED
YIELD STRENGTH Fy = 60.00 ksi
DISTANCE TO RF CENTER FROM TENSION FACE:
AT SLAB TOP = 1.75 in OUTER LAYER
AT SLAB BOTTOM = 3.25 in OUTER LAYER
MINIMUM FLEXURAL BAR SIZE:
AT SLAB TOP = # 4
AT SLAB BOTTOM = # 4
MINIMUM SPACING:
IN SLAB = 6.00 in

SPAN/LOADING DATA

SPAN NUMBER	LENGTH L1 (ft)	Tslab (in)	WIDTH LEFT (ft)	L2*** RIGHT (ft)	SLAB SYSTEM	DESIGN STRIP (ft)	COLUMN STRIP** (ft)	UNIFORM LOADS S. DL (psf)	LIVE (psf)
1*	2.0	10.0	2.0E	1.5	2	3.5	.0	160.0	.0
2	4.0	10.0	2.0E	1.5	2	3.5	1.8	280.0	.0
3	4.0	10.0	2.0E	1.5	2	3.5	1.8	280.0	.0
4	4.0	10.0	2.0E	1.5	2	3.5	1.8	280.0	.0
5*	2.0	10.0	2.0E	1.5	2	3.5	.0	160.0	.0

* -Indicates cantilever span information.
** -Strip width used for positive flexure.
***-L2 widths are 1/2 dist. to transverse column.
"E"-Indicates exterior strip.

PARTIAL LOADING DATA

SPAN No.	LOAD No.	TYPE	PARTIAL DEAD LOADS Wa	Wb	La	Lb	LOAD No.	TYPE	PARTIAL LIVE LOADS Wa	Wb	La	Lb
1*	1	CONC	1.3	.0	.0	.0						
1*	2	UNIF	300.0	.0	.0	2.0						
2	1	UNIF	300.0	.0	.0	4.0						
2	2	CONC	1.0	.0	2.0	.0						
3	1	UNIF	300.0	.0	.0	4.0						
4	1	UNIF	300.0	.0	.0	2.0						
4	2	CONC	1.0	.0	2.0	.0						
4	3	UNIF	300.0	.0	.0	4.0						
5*	1	CONC	1.3	.0	2.0	.0						
5*	2	UNIF	300.0	.0	.0	2.0						

* -Indicates cantilever span information.

UNITS FOR:
UNIFORM LOAD: Wa.....plf La & Lb... ft
CONCENTRATED LOAD: Wa.....kips La..... ft
TRAPEZOIDAL LOAD: Wa & Wb..plf La & Lb... ft
MOMENT: Wa.....ft-k La..... ft
NOTE: Local effects of partial loadings are NOT considered by ADOSS, compute manually.

COLUMN/TORSIONAL DATA

COLUMN NUMBER	COLUMN ABOVE SLAB C1 (in)	C2 (in)	HGT (ft)	COLUMN BELOW SLAB C1 (in)	C2 (in)	HGT (ft)	CAPITAL** EXTEN. (in)	DEPTH (in)	COLUMN STRIP* (ft)	MIDDLE STRIP* (ft)
1	.0	.0	.0	3.5	.0	10.0	.0	.0	1.8	1.8
2	.0	.0	.0	3.5	.0	10.0	.0	.0	1.8	1.8
3	.0	.0	.0	3.5	.0	10.0	.0	.0	1.8	1.8
4	.0	.0	.0	3.5	.0	10.0	.0	.0	1.8	1.8

Columns with zero "C2" are round columns.
* -Strip width used for negative flexure.
**-Capital extension distance measured from face of column.

COLUMN NUMBER	TRANSVERSE BEAM WIDTH (in)	DEPTH (in)	ECCEN (in)	DROP PANEL/SOLID HEAD LEFT (ft)	RIGHT (ft)	WIDTH (ft)	THICK (in)	SUPPORT FIXITY* %
1	.0	.0	.0	.4	.4	.8	3.0	0%
2	.0	.0	.0	.4	.4	.8	3.0	0%
3	.0	.0	.0	.4	.4	.8	3.0	0%
4	.0	.0	.0	.4	.4	.8	3.0	0%

* -Support fixity of 0% denotes pinned condition.
Support fixity of 999% denotes fixed end condition.

LATERAL LOAD/OUTPUT DATA
****

LATERAL LOADS ARE NOT SPECIFIED

OUTPUT DATA
PATTERN LOADINGS: 1 THRU 4
PATTERN LIVE LOAD FACTOR (1-3) = 75%

LOAD FACTORS:
U = 1.40*D + 1.70*L
U = .75(1.40*D + 1.70*L + 1.70*W)
U = .90*D + 1.30*W

OUTPUT OPTION(S):
Input Echo
Column Service Load Table
Reinforcing Required
Deflections

** SPECIFIED DROP PANEL LENGTH RIGHT LESS THAN 1/6 OF SPAN AT COLUMN 1
DROP IGNORED FOR FLEXURAL DESIGN AND DEFLECTION CALCULATIONS.

**SPECIFIED DROP DEPTH AT COLUMN 1 GREATER THAN 1/4TH THE SUPPORT-DROP EDGE
DISTANCE, EXCESS DEPTH ON SPAN 1 SIDE IGNORED FOR REINFORCEMENT CALCULATIONS.

**SPECIFIED DROP DEPTH AT COLUMN 1 GREATER THAN 1/4TH THE SUPPORT-DROP EDGE
DISTANCE, EXCESS DEPTH ON SPAN 2 SIDE IGNORED FOR REINFORCEMENT CALCULATIONS.

** SPECIFIED DROP PANEL LENGTH LEFT LESS THAN 1/6 OF SPAN AT COLUMN 2
DROP IGNORED FOR FLEXURAL DESIGN AND DEFLECTION CALCULATIONS.

** SPECIFIED DROP PANEL LENGTH RIGHT LESS THAN 1/6 OF SPAN AT COLUMN 2
DROP IGNORED FOR FLEXURAL DESIGN AND DEFLECTION CALCULATIONS.

**SPECIFIED DROP DEPTH AT COLUMN 2 GREATER THAN 1/4TH THE SUPPORT-DROP EDGE
DISTANCE, EXCESS DEPTH ON SPAN 2 SIDE IGNORED FOR REINFORCEMENT CALCULATIONS.

**SPECIFIED DROP DEPTH AT COLUMN 2 GREATER THAN 1/4TH THE SUPPORT-DROP EDGE
DISTANCE, EXCESS DEPTH ON SPAN 3 SIDE IGNORED FOR REINFORCEMENT CALCULATIONS.

** SPECIFIED DROP PANEL LENGTH LEFT LESS THAN 1/6 OF SPAN AT COLUMN 3
DROP IGNORED FOR FLEXURAL DESIGN AND DEFLECTION CALCULATIONS.

** SPECIFIED DROP PANEL LENGTH RIGHT LESS THAN 1/6 OF SPAN AT COLUMN 3
DROP IGNORED FOR FLEXURAL DESIGN AND DEFLECTION CALCULATIONS.

**SPECIFIED DROP DEPTH AT COLUMN 3 GREATER THAN 1/4TH THE SUPPORT-DROP EDGE
DISTANCE, EXCESS DEPTH ON SPAN 3 SIDE IGNORED FOR REINFORCEMENT CALCULATIONS.

**SPECIFIED DROP DEPTH AT COLUMN 3 GREATER THAN 1/4TH THE SUPPORT-DROP EDGE

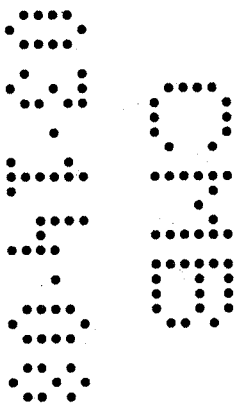
DISTANCE, EXCESS DEPTH ON SPAN 4 SIDE IGNORED FOR REINFORCEMENT CALCULATIONS.

** SPECIFIED DROP PANEL LENGTH LEFT LESS THAN 1/6 OF SPAN AT COLUMN 4
DROP IGNORED FOR FLEXURAL DESIGN AND DEFLECTION CALCULATIONS.

**SPECIFIED DROP DEPTH AT COLUMN 4 GREATER THAN 1/4TH THE SUPPORT-DROP EDGE
DISTANCE, EXCESS DEPTH ON SPAN 4 SIDE IGNORED FOR REINFORCEMENT CALCULATIONS.

**SPECIFIED DROP DEPTH AT COLUMN 4 GREATER THAN 1/4TH THE SUPPORT-DROP EDGE
DISTANCE, EXCESS DEPTH ON SPAN 5 SIDE IGNORED FOR REINFORCEMENT CALCULATIONS.

**TOTAL UNFACTORED DEAD LOAD = 31.059 kips
LIVE LOAD = .000 kips



SERVICE LOAD TABLE FOR INPUT TO PCACOL SLENDER COLUMN DESIGN
****

COLUMN NUMBER 1		AXIAL LOAD (kips)	MOMENT AT TOP (ft-k)	MOMENT AT BOT (ft-k)
LOAD PTRN 1	DEAD	8.6	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 2	DEAD	8.6	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 3	DEAD	8.6	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 4	DEAD	8.6	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0

COLUMN NUMBER 2		AXIAL LOAD (kips)	MOMENT AT TOP (ft-k)	MOMENT AT BOT (ft-k)
LOAD PTRN 1	DEAD	6.6	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 2	DEAD	6.6	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 3	DEAD	6.6	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 4	DEAD	6.6	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0

SERVICE LOAD TABLE FOR INPUT TO PCACOL SLENDER COLUMN DESIGN
****

COLUMN NUMBER 3		AXIAL LOAD (kips)	MOMENT AT TOP (ft-k)	MOMENT AT BOT (ft-k)
LOAD PTRN 1	DEAD	7.2	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 2	DEAD	7.2	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 3	DEAD	7.2	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 4	DEAD	7.2	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0

COLUMN NUMBER 4		AXIAL LOAD (kips)	MOMENT AT TOP (ft-k)	MOMENT AT BOT (ft-k)
LOAD PTRN 1	DEAD	8.7	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 2	DEAD	8.7	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 3	DEAD	8.7	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0
LOAD PTRN 4	DEAD	8.7	.0	.0
	LIVE	.0	.0	.0
	LATL	.0	.0	.0

NOTE: Add dead, live and lateral axial loads as appropriate.
Top moments are those at joint bottom.
Bottom moments are those at joint top.
Moments are positive when counter-clockwise.
Axial forces positive when compressive.

N E G A T I V E R E I N F O R C E M E N T

COLUMN NUMBER	PATT NO.	LOCATION @COL FACE	TOTAL DESIGN (ft-k)	COLUMN STRIP AREA (sq.in)	COLUMN STRIP WIDTH (ft)	MIDDLE STRIP AREA (sq.in)	MIDDLE STRIP WIDTH (ft)
1	4	L ||	-6.5	.43	1.8	.38	1.8
2	4	L ||	-2.4	.38	1.8	.38	1.8
3	4	L ||	-2.6	.38	1.8	.38	1.8
4	4	|| R	6.5	.43	1.8	.38	1.8

P O S I T I V E R E I N F O R C E M E N T

SPAN NUMBER	PATT NO.	LOCATION FROM LEFT (ft)	TOTAL DESIGN (ft-k)	COLUMN STRIP AREA (sq.in)	COLUMN STRIP WIDTH (ft)	MIDDLE STRIP AREA (sq.in)	MIDDLE STRIP WIDTH (ft)
2	1	2.1	1.2	.38	1.8	.38	1.8
3	1	1.9	1.7	.38	1.8	.38	1.8
4	1	1.9	1.5	.38	1.8	.38	1.8

D E F L E C T I O N A N A L Y S I S

NOTES--The deflections below must be combined with those of the analysis in the perpendicular direction. Consult users manual for method of combination and limitations.

--Spans 1 and 5 are cantilevers.

--Time-dependent deflections are in addition to those shown and must be computed as a multiplier of the dead load(DL) deflection. See "CODE" for range of multipliers.

--Deflections due to concentrated or partial loads may be larger at the point of application than those shown at the centerline. Deflections are computed as from an average uniform loading derived from the sum of all loads applied to the span.

--Modulus of elasticity of concrete, Ec = 4287. ksi

SPAN NUMBER	DEAD LOAD Ieff. (in^4)	COLUMN STRIP DEFLECTION DUE TO: DEAD (in)	COLUMN STRIP DEFLECTION DUE TO: LIVE (in)	COLUMN STRIP DEFLECTION DUE TO: TOTAL (in)	MIDDLE STRIP DEFLECTION DUE TO: DEAD (in)	MIDDLE STRIP DEFLECTION DUE TO: LIVE (in)	MIDDLE STRIP DEFLECTION DUE TO: TOTAL (in)
1	4701.	.002	.000	.002	.001	.000	.001
2	3500.	.000	.000	.000	.000	.000	.000
3	3500.	.000	.000	.000	.000	.000	.000
4	3500.	.000	.000	.000	.000	.000	.000
5	4701.	.001	.000	.001	.000	.000	.000

* Program completed as requested *

GENERAL NOTES AND CONDITIONS

1. ALL FLOOR & WALLS OF POOL TO BE PNEUMATICALLY APPLIED CONC. WITH A MIN. 28 DAY COMPRESSIVE STRENGTH OF 4000 P.S.I.
2. ALL REINF. STEEL TO CONFORM TO A.S.T.M. A615 GRADE 60.
3. ALL POOL PIPING TO BE SCHEDULE 40 PVC NON THREADED NSF PIPE WITH SOLVENT WELD JOINTS.
4. IN ALL CASES, THE POOL CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROTECT EXISTING STRUCTURES FROM FAILURE BY SHEATHING AND/OR SHORING, OR OTHER METHODS AS REQUIRED. THE DESIGN ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE SAFETY OF EXISTING STRUCTURES.
5. THE DESIGN ENGINEER ASSUMES NO RESPONSIBILITY FOR POOL CONSTRUCTION IN EASEMENT OR REQUIRED SETBACK AREAS. PLOT PLANS NOT PREPARED FROM LEGAL SURVEYS OF THE EXISTING LOT AND RESIDENCE ARE SO INDICATED. POOL CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND ESTABLISH LOT LINES. IF NECESSARY, POOL CONTRACTOR AND/OR OWNER SHALL VERIFY SHOWN AND ALL DIMENSIONS PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL ESTABLISH LOCATIONS OF UTILITIES AT THE SITE MINIMUM CLEARANCE DIMENSIONS SHALL BE HELD AND SHALL BE AS REQUIRED BY THE LOCAL REGULATORY AGENCY. IN GENERAL, HOLD A DISTANCE OF 10 FEET FROM OVERHEAD ELECTRIC LINES TO POOL'S WATER EDGE.
7. ALL POOL ENCLOSURES SHALL CONFORM TO FLORIDA STATUTES 515.27 AND 515.29 ., AND F.B.C. 2004 CHAPTER 4101.17.1 - 14
8. WHERE POOLS ABUT OR ARE PLACED NEARBY SEA WALL OR BULKHEADS, SPECIAL CARE SHALL BE EMPLOYED. THE WALLS SHALL BE IN GOOD CONDITION, NOT PERMITTING ANY SHIFTING OR REMOVAL, OR LOOSENING OF THE SUPPORTING SOIL AWAY FROM THE POOL. IF THE WALLS DO NOT FULLY CONTAIN THE SOILS BEHIND THEM, THEY SHALL BE REPLACED OR REPAIRED. CONTINUAL MAINTENANCE OF THE WALLS IS REQUIRED BY THE PROPERTY OWNER. WHEN EXCAVATING FOR THE POOL, THE SEA-WALL TIEBACKS SHALL NOT BE CUT. WHEN DEADMEN FALL WITHIN THE EXCAVATION, NOTIFY THE ENGINEER IMMEDIATELY FOR FURTHER INSTRUCTIONS.
9. THE CONTRACTOR SHALL BACKFILL POOL SHELL WITH CAUTION. THE PLUMBING SHALL NOT BE DISTURBED. BACKFILL SHALL BE PERFORMED WITH CLEAN SAND, FREE OF ORGANIC MATERIALS AND SHALL BE PLACED IN 12 INCH THICK LAYERS. EACH LAYER SHALL BE COMPACTED TO 90% OF THE SOILS MAXIMUM DENSITY BY TAMPERING SOLIDLY. SOILS BELOW THE DECK SHALL BE PLACED IN SIMILAR MANNER.
10. WHERE DECKS ARE INDICATED BY OTHERS, THE DECK DESIGN NOTES SHOWN ON THE TYPICAL SECTION DO NOT APPLY. DECK DESIGN SHALL BE BY OTHERS.
11. DO NOT DRAIN POOL UNDER HIGH GROUND WATER OR STORM CONDITIONS.
12. WARNING! DO NOT EMPTY POOL AFTER CONSTRUCTION FOR REPAIRS OR ANY OTHER REASON BEFORE CONSULTING WITH A POOL OR POOL REPAIR CONTRACTOR. HYDROSTATIC UPLIFT PRESSURES MUST BE ELIMINATED TO PREVENT POOL FROM FLOATING ABOVE GROUND, AND CAUSING DAMAGE TO THE STRUCTURAL INTEGRITY OF THE POOL.
13. THIS PLAN REMAINS THE PROPERTY OF THE DESIGN ENGINEERS. IT IS NOT TRANSFERABLE FROM ONE CONTRACTOR TO ANOTHER WITHOUT THE WRITTEN PERMISSION OF THE DESIGN ENGINEERS.
14. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE F.B.C., 2004 EDITION, AND ARTICLE 680 N.E.C., 2005 EDITION. ALL BOND WIRES SHALL BE PROTECTED WITH APPROVED MATERIAL. THE CONTRACTOR SHALL INSURE THAT AN ELECTRICAL BONDING INSPECTION IS CALLED FOR AND APPROVED PRIOR TO PLACEMENT OF CONCRETE OVER THE BOND WIRE CONNECTIONS. CONNECTIONS DIRECTLY FROM THE POOL LIGHT TO A TRANSFORMER BOX IS PROHIBITED. ALL METAL PARTS IN THE POOL AREA, IN ADDITION TO ALL METAL DOORS, WINDOWS, SCREENED ENCLOSURES, OR OTHERS ITEMS CONTAINING METAL WITHIN A DISTANCE OF 5 FEET FROM THE POOL WATER'S EDGE, SHALL ALSO BE GROUNDED.
15. POOL LIGHT TO BE GROUNDED TO COMMON BONDING GRID CONSISTING OF (1) #8 CONTINUOUS COPPER WIRE LOOPED AROUND POOL PERIMETER. LOOP SHALL BE GROUNDED TO PANEL VIA POOL WALL STEEL, DECK REINFORCING, AND PUMP MOTOR CASING.
16. FILTER BACKWASH SHALL COMPLY WITH THEFLORIDA BUILDING CODE, 2004 EDITION.
17. POOL WATER DISPOSAL TO BE IN ACCORDANCE WITH FLORIDA BUILDING CODE, 2004EDITION.
18. TEMPERATURE OF SPA WATER SHALL BE SET SO THAT MAXIMUM WATER TEMPERATURE DOES NOT EXCEED 102 DEGREES FAHRENHEIT.
19. ALL TREADS SHALL HAVE SLIP- RESISTING SURFACES PER ANSI/NSPI-5-2003. 6.1.5
20. ACCESS GATE REQUIREMENTS PER F.B.C. 2004 R4101.17.1 THROUGH R4101.17.1.14
    - GATES SHALL BE EQUIPPED WITH A SELF-LATCHING & LOCKING DEVICE, 54" ABOVE FINISH GRADE ELEVATION.
    - THE DEVICE SHALL BE PLACED ON THE POOL SIDE OF THE GATE.
    - GATES SHALL OPEN OUTWARD AWAY FROM POOL.
    - THE GATE SHALL HAVE NO OPENINGS GREATER THAN ½" WITHIN 18" OF THE RELEASE MECHANISM.
21. THIS POOL HAS BEEN DESIGNED TO ALL APPLICABLE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CHAPTER 41 SECTION R4101 2006 EDITION.

48 HOURS PRIOR TO EXCAVATING CONTRACTOR SHALL CALL FOR LOCATION OF UNDERGROUND UTILITIES
SUNSHINE ONE-CALL 1-800-432-4770
CITY OF MIAMI BEACH 305-673-7080

POOL DATA CHART

POOL SPECIFICATIONS:

Pool Shape: AS SHOWN
Maximum Length (FT): EXIT. 60'-0"
Maximum Width (FT): EXIT. 24'-0"
Deep End (FT): EXIT. 9.0'
Shallow End (FT): EXIT. 3.0'
Pool Area(SF): NEW 1470 SF
Pool Perimeter(LF): NEW 169'-0"
Pool Volume (GAL): NEW 66,150
Turnover Rate(HR): 10.50 HR
Interior Finish: NEW DIAMOND BRITE
Waterline Tile: 6"
Tile on Steps: YES
Tile on Swimout: YES
Coping: BULLNOSE
Pump Size (HP): NEW 2.5
Filter System: NEW CARTRIDGE Filter Size (SF): CL580
Inlets: NEW 5 Maindrains:NEW TWO IN WALL
2" Vacuum Line w/ Safety Lock: NEW ONE
Automatic Surface Skimmer: NEW TWO
Underwater Safety Light: NEW(4) 300 W, 12 V
Electrical Pool Hookup: BY CONTRACTOR
Patio Finish: PAVERS ON SAND Patio Size (SF):
Deck Drains (LF): Fence: AS SHOWN

Pool Miscellaneous Items:

1. NEW (2) 400,000 BTU NAT GAS.LEVELOL AUTOFILL.
2. NEW(2) AQUAPURE SALT CHLORINE.
3. JANDY PS8 POOL ONLY CONTROL SYSTEM.

SPA SPECIFICATIONS:

Spa Shape: AS SHOWN — Spillway Opening (FT): NONE
Spa Size: 12.0' X 9.0' — Glass Block: NONE
Spa Area(SF):108 — Spa Raised: 0"
Spa Perimeter(LF):42 — Spa Turn Over: 33.75 MIN
Spa Volume (GAL): 2,025
Therapy Jets: 30 — Air Blower(HP): THREE 2 HP
Spillway Jets: NONE
Underwater Spa Light: NONE
Heater: 400,000 B.T.U — Spa Controls: NONE

Spa Miscellaneous Items:

1. THREE VARIABLE FLOW PUMP FOR JETS.10 JETS/PUMP.
2. 1 HP SPA FILTER PUMP.

48 HOURS BEFORE DIGGING
CALL
TOLL FREE
1-800-432-4770
SUNSHINE STATE
ONE CALL CENTER OF FLORIDA

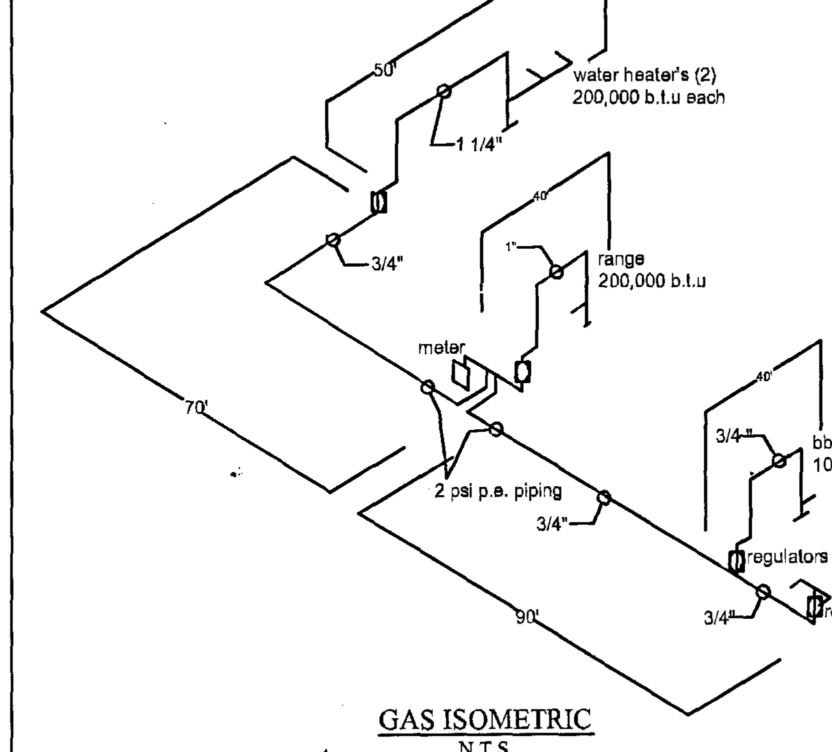
PUBLIC WORKS
PLAN REVIEW NOTICE
Phone 305-673-7080 Fax 305-673-7080

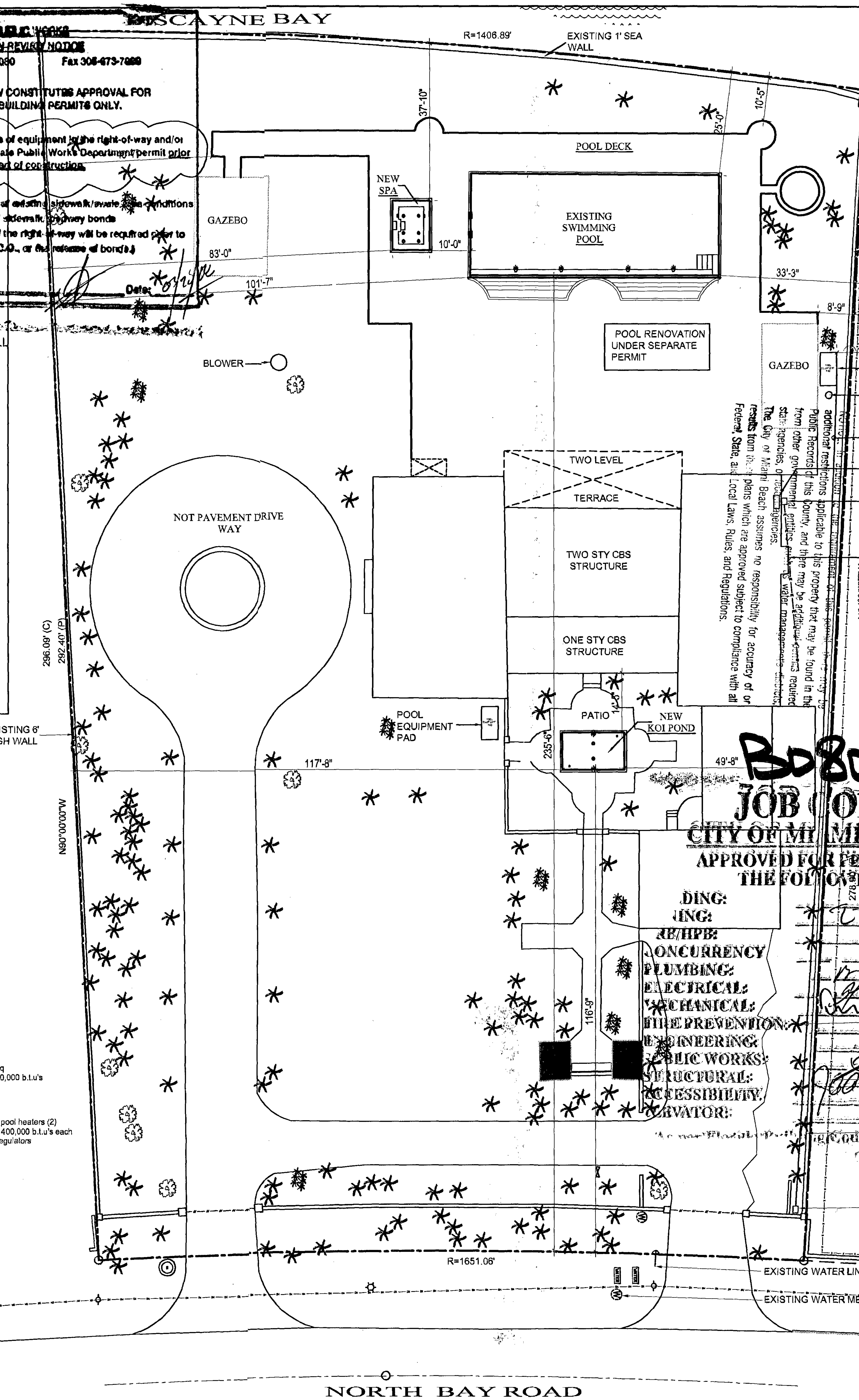
THIS PLAN REVIEW CONSTITUTES APPROVAL FOR OBTAINING BUILDING PERMITS ONLY.

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

Permit Requirements: Proof of existing sidewalk/swale site conditions (pictures) and/or posting of sidewalk/roadway bonds
(Public Works inspection of the right-of-way will be required prior to final sign-off on the C.O. (C.C., or the release of bonds).

Approved/Reviewed By: ______ Date: 3/21/08





Public Records of this county, and there may be additional restrictions applicable to this property that may be found in the from other governmental entities such as water management districts, state agencies, or federal agencies. The City of Miami Beach assumes no responsibility for accuracy of results from the plans which are approved subject to compliance with all Federal, State, and Local Laws, Rules and Regulations.

B0802336

JOB COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:
BUILDING:
ZONING:
DRB/HPB:
CONCURRENCY
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
PUBLIC WORKS:
STRUCTURAL:
ACCESSIBILITY:
ELEVATOR:

SITE PLAN 1" = 20'-0"

LEGAL DESCRIPTION
LOT **33 AND 34** , BLOCK **1A**, **"LAGORCE GOLF"** SUBDIVISION, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK **14** AT PAGE **43** OF THE PUBLIC RECORDS OF **MIAMI-DADE** COUNTY, FLORIDA.

AQUADYNAMICS
DESIGN ENGINEERING GROUP, INC.
AQUATIC ENGINEERING CONSULTANTS

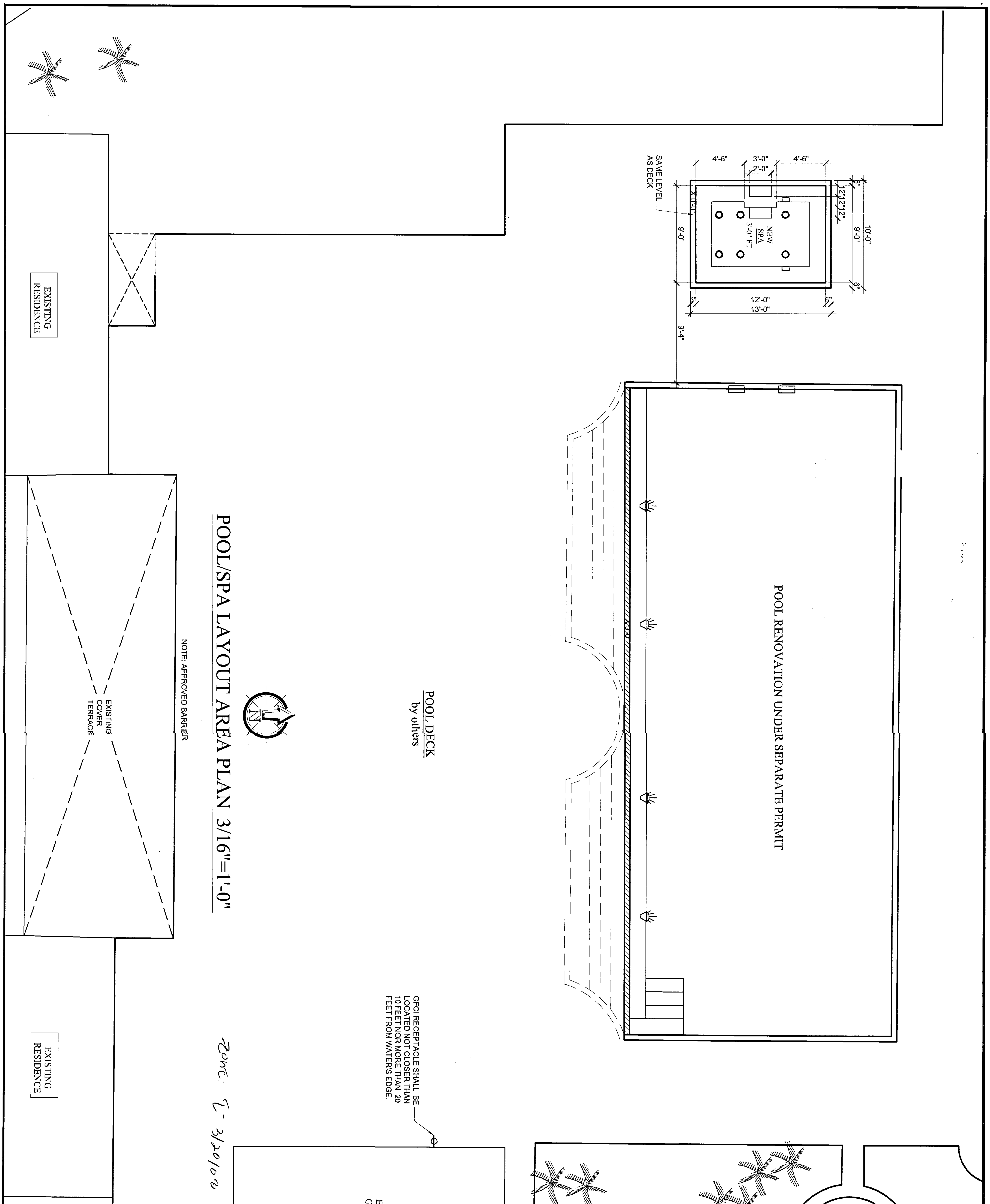
NOTICE TO BUILDER
TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THE INFORMATION CONTAINED ON THESE DRAWINGS CONFORMS TO THE STANDARDS SET IN THE FLORIDA BUILDING CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, AND FIELD CONDITIONS PRIOR TO THE START OF WORK, AND NOTIFYING THE ENGINEER, AT ONCE, OF ANY AND ALL ERRORS, DISCREPANCIES, IRREGULARITIES OR OMISSIONS FOR THE SUCCESSFUL COMPLETION OF THE PROJECT INDICATED.

PROJECT NAME: Gainor Residence
5800 N. Bay Rd.
Miami Beach, FL

JOB No.	
DATE	12-21-07
DRAWN BY	D.A./N.P
SCALE	AS NOTED
SHEET	SHEET 1 OF 8

SEAL: OFELIA TABOADA P.E. PROFESSIONAL REG. No. 53339 CIVIL ENGINEER

DRAWING NUMBER **SP-1**

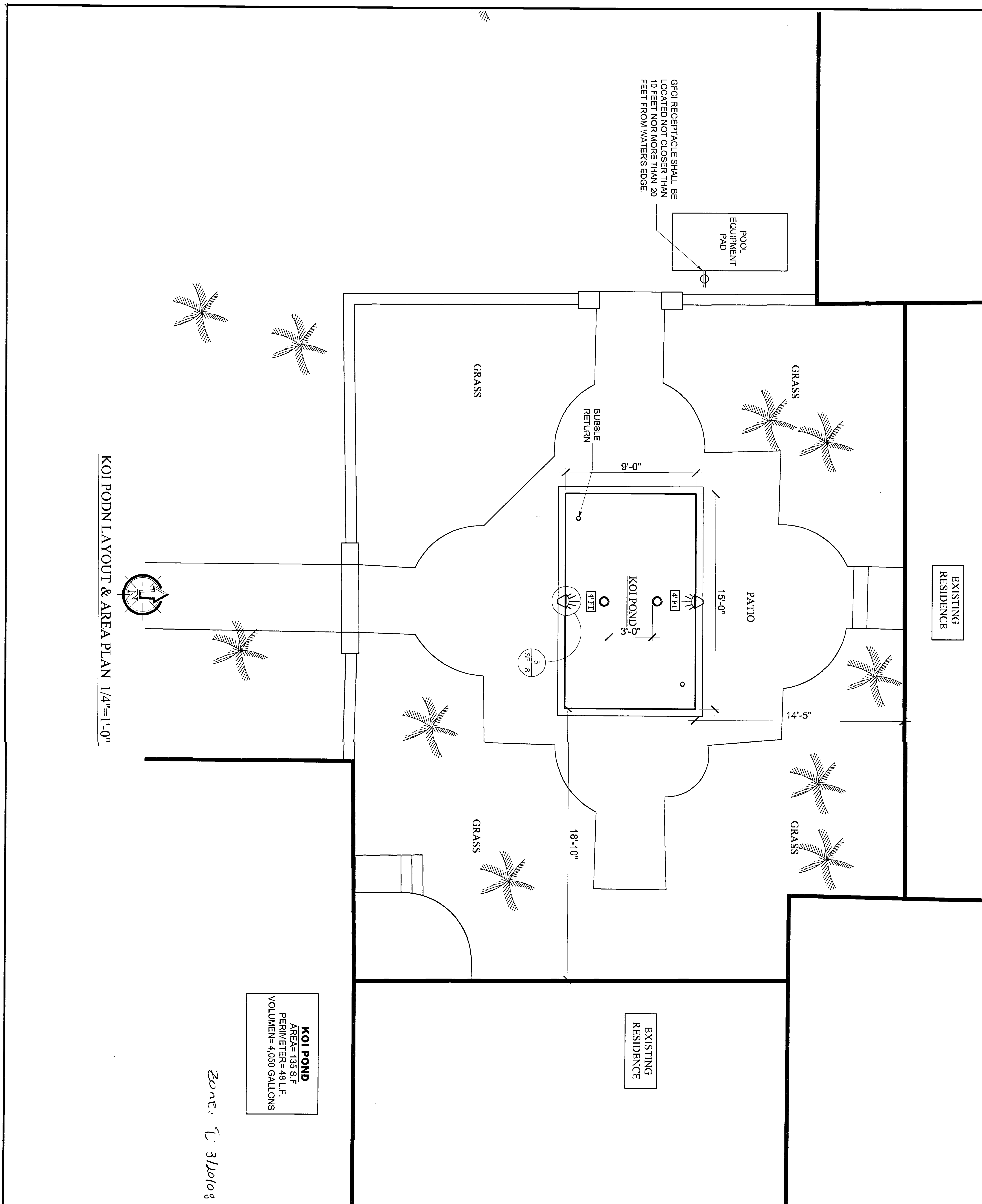


DRAWING NUMBER	SEAL:	JOB No.		PROJECT NAME:
SP-2	OFELIA TABOADA, P.E. PROFESSIONAL REG. No. 55339 CIVIL ENGINEER	DATE	12-21-07	Gainor Residence 5800 N. Bay Rd Miami Beach, FL
		DRAWN BY	D.A/N.P	
		SCALE	AS NOTED	
		SHEET	SHEET 2 OF 8	

NOTICE TO BUILDER

TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THE INFORMATION CONTAINED ON THESE DRAWINGS CONFORMS TO THE STANDARDS SET IN THE FLORIDA BUILDING CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, AND FIELD CONDITIONS PRIOR TO THE START OF THE WORK, AND NOTIFYING THE ENGINEER, AT ONCE, OF ANY AND ALL ERRORS, DISCREPANCIES, IRREGULARITIES, OR OMISSIONS PERTAINING TO THE SUCCESSFUL COMPLETION OF THE PROJECT INDICATED.

AQUADYNAMICS
DESIGN GROUP, INC.
AQUATIC ENGINEERING CONSULTANTS
WATER PARK & FAMILY AQUATIC CENTER DESIGN / RESORT, HOTEL & CONDOMINIUM POOL DESIGN
FORENSICS, EVALUATIONS & ANALYSIS / DOH VIOLATIONS, VARIANCES, PERMITTING / CUSTOM RESIDENTIAL DESIGN
4910 SW 72nd AVENUE, MIAMI, FLORIDA 33155 PHONE: (305) 667-8975 FAX: (305) 662-1002
E-MAIL: info@aquadynamics.biz WEB SITE: www.aquadynamics.biz EB 4694



DRAWING NUMBER	SEAL	JOB No.		PROJECT NAME:	NOTICE TO BUILDER
SP-3	OFELIA TABOADA, P.E. PROFESSIONAL REG. No. 55339 CIVIL ENGINEER	DATE	12-21-07	Gainor Residence 5800 N. Bay Rd Miami Beach, FL	TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THE INFORMATION CONTAINED ON THESE DRAWINGS CONFORMS TO THE STANDARDS SET IN THE FLORIDA BUILDING CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, AND FIELD CONDITIONS PRIOR TO THE START OF THE WORK, AND NOTIFYING THE ENGINEER, AT ONCE, OF ANY AND ALL ERRORS, DISCREPANCIES, IRREGULARITIES, OR OMISSIONS PERTAINING TO THE PROJECT INDICATED.
		DRAWN BY	D.A/N.P		
		SCALE	AS NOTED		
		SHEET	SHEET 3 OF 8		

AQUADYNAMICS DESIGN GROUP, INC.
AQUATIC ENGINEERING CONSULTANTS
WATER PARK & FAMILY AQUATIC CENTER DESIGN / RESORT, HOTEL & CONDOMINIUM POOL DESIGN
FORENSICS, EVALUATIONS & ANALYSIS / DOH VIOLATIONS, VARIANCES, PERMITTING / CUSTOM RESIDENTIAL DESIGN

STRUCTURAL NOTES

1.- FOUNDATION:

A. THE FOUNDATION SYSTEM CONSIST OF 3" DIAMETER PIN PILES. (Revision 1)

B. PIN PILES SHALL BE INSTALLED TO DEVELOP A COMPRESSION CAPACITY OF 5 TONS ESTIMATED & 2 TONS TENSION.

C. PILE INSTALLATION SHALL BE SUPERVISED BY PILE CONTRACTOR STATE REGISTERED P.E.

D. PILE INSTALLATION SHALL CONFORM TO THE FLORIDA BUILDING CODE, LASTED EDITION.

E. CONTRACTOR SHALL PROVIDE TO THE STRUCTURAL ENGINEER OF RECORD AN AS-BUILT PLAN SHOWING PRECISE IDENTIFICATION AND LOCATION OF EVERY PILE FOR REVIEW AND APPROVAL PRIOR TO POURING OF PILE CAPS.

F. THE ABOVE FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT AND BORINGS BY DYNATECH ENGINEERING CORP. DATE APRIL 5,2005

2.- GENERAL:

A. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE FLORIDA BUILDING CODE, 2004 EDITION, ASCE I-93 MINIMUM DESIGN LOADS FOR BUILDINGS, THE ACI 318-95 BUILDING CODE, AND ALL APPLICABLE FEDERAL, STATE AND LOCAL ORDINANCES. (Revision 1)

B. THESE DRAWINGS AND SPECIFICATIONS COMPLY, TO THE BEST OF MY KNOWLEDGE WITH THE APPLICABLE MINIMUM BUILDING CODE.

C. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS OF EXISTING STRUCTURES AFFECTING NEW CONSTRUCTION BEFORE COMMENCING ANY WORK ANY VARIATIONS IN ACTUAL FIELD CONDITIONS/DIMENSIONS FROM THOSE SHOWN IN THE CONTRACT DRAWINGS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR DETERMINING THE NEED OF REDESIGN PRIOR TO CONTRACTOR'S SUBMITTAL OF SHOP WORKING DRAWINGS FOR REVIEW.

D. THESE DRAWINGS SHALL BE WORKED TOGETHER WITH ARCHITECTURAL, AIR CONDITIONING, MECHANICAL AND ELECTRICAL DRAWINGSTO LOCATED DEPRESSED SLABS, SLOPES, DRAINS, OULETS, RECESSES, OPENINGS, REGLETS, BOLT SETTINGS, SLEEVES, ETC. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.

E. WHEN PERFORMING WORK BELOW GRADE, CARE SHALL BE TAKEN TO AVOID DAMAGING ANY EXISTING UTILITIES. ALL UNKNOWN UTILITIES DISCOVERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTEN- TION OF THE ARCHITECT/ENGINEER. ANY DAMAGE TO THE EXISTING UTILITIES SHALL BE REPORTED TO ALL AFFECTED PARTIES, INCLUDING THE ARCHITECT/ENGINEER.

F. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING HIS CONSTRUCTION DOCUMENTS WITH THE REVISED DRAWINGS AND SPECIFICATIONS, FIELD ORDERS, CHANGE ORDERS AND CLARIFICATIONS SKETCHES ISSUED DURING THE COURSE OF CONSTRUCTION.

G. TYPICAL DETAILS AND NOTES ON THESE DRAWINGS SHALL APPLY UNLESS SPECIFICALLY NOTES OTHERWISE. CONSTRUCTION DETAILS AND SEC- TIONS NOT COMPLETELY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS AND SECTIONS SHOWN OR NOTED FOR SIMILAR CONDITIONS.

H. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTEC- TION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT.

I. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER FROM EXCAVATIONS AND DEWATERING OPE- RATIONS IN SUCH A WAY AS TO NOT CAUSE INCONVENIENCE TO THE WORK AND DAMAGE TO THE STRUCTURAL ELEMENTS.

J. SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSE- DED BY THE STRUCTURAL DRAWINGS. IT SHALL BE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.

K. THE CONTRACTOR SHALL SUPPLY THE ENGINEER THREE COPIES OF SHOP DRAWINGS A MINIMUM OF ONE WEEK PRIOR TO PLACEMENT. THE REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THE REVIEW DOES NOT GUARANTEE IN ANY WAY THAT THE SHOP DRAWINGS ARE CORRECT NOR DOES IT INFER THAT THEY SUPERSEDE THE STRUCTURAL DRAWINGS.

L. SUBMITTALS TO STRUCTURAL ENGINEER:
  I. CONCRETE TEST REPORT FOR CAST-IN-PLACE CONCRETE AS PER ACI 301-96.
  II. REINFORCING STEEL SHOP DRAWINGS.
  III. PILE DETAIL, INCLUDING SIZE, CAPACITY, AND REINFORCING.
  IV. PILE INSTALLATION LOGS.

3.- CONCRETE:

A. ALL CONCRETE WORK SHALL CONFORM ALL REQUIREMENTS OF ACI 301-96 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".

B. SHOTCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 5000 PSI.

C. FORM WORK SHALL COMPLY WITH ACI 347-88 "RECOMMENDED PRACTICE FOR CONCRETE WORK".

D. MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY CONCRETE WORK.

E. NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.

F. THE OWNER SHALL CONTRACTOR AN INDEPENDENT TESTING LABORATORY TO PERFORM CONCRETE CYLINDER TESTS AS FOLLOWS: FOUR CYLINDER TEST FOR ANY 50 CUBIC YARDS OF CONCRETE POURED, OR THREE CYLINDER TESTS PER ANY DAY. POUR LESS THAT 50 CUBIC YARDS. ONE CYLINDER SHALL BE TESTED AT 7 DAYS, TWO AT 28 DAYS.

G. TRANSPORTING, PLACING, CURING AND DEPOSITING OF CONCRETE SHALL COMPLY WITH ACI 301-96.

4.- REINFORCING STEEL:

A. REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 318-95.

B. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A 615 (SI) GRADE 60.

C. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185-94.

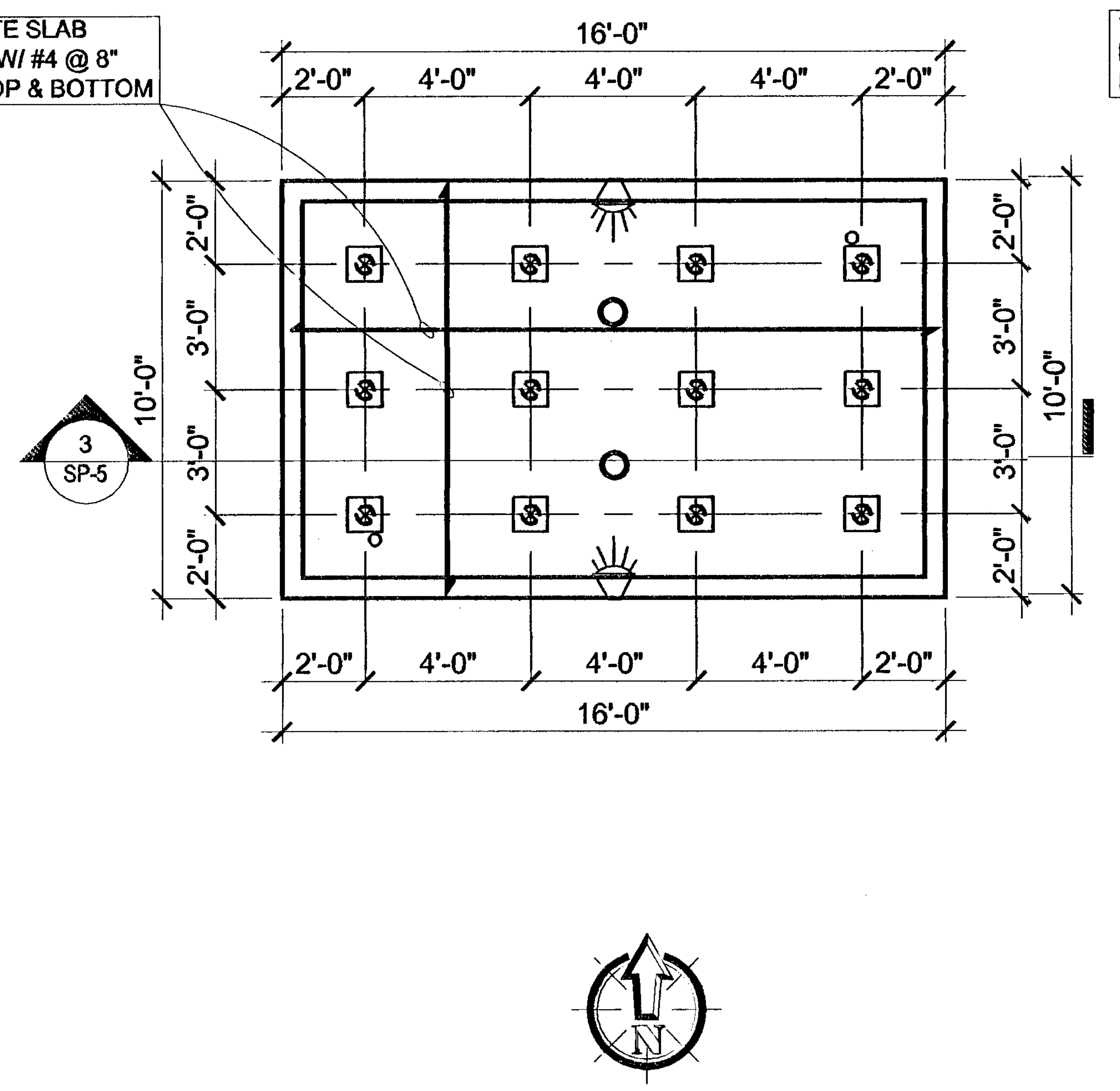
D. REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING PLACING OF CONCRETE.

E. ALL TOP REINFORCING SHALL TERMINATE WITH STANDARD HOOKS AT DISCONTINUOUS EDGES OR ENDS.

F. ALL BOTTOM BARS SHALL BEAR 6" MINIMUM OVER SUPPORTS, U.O.N.

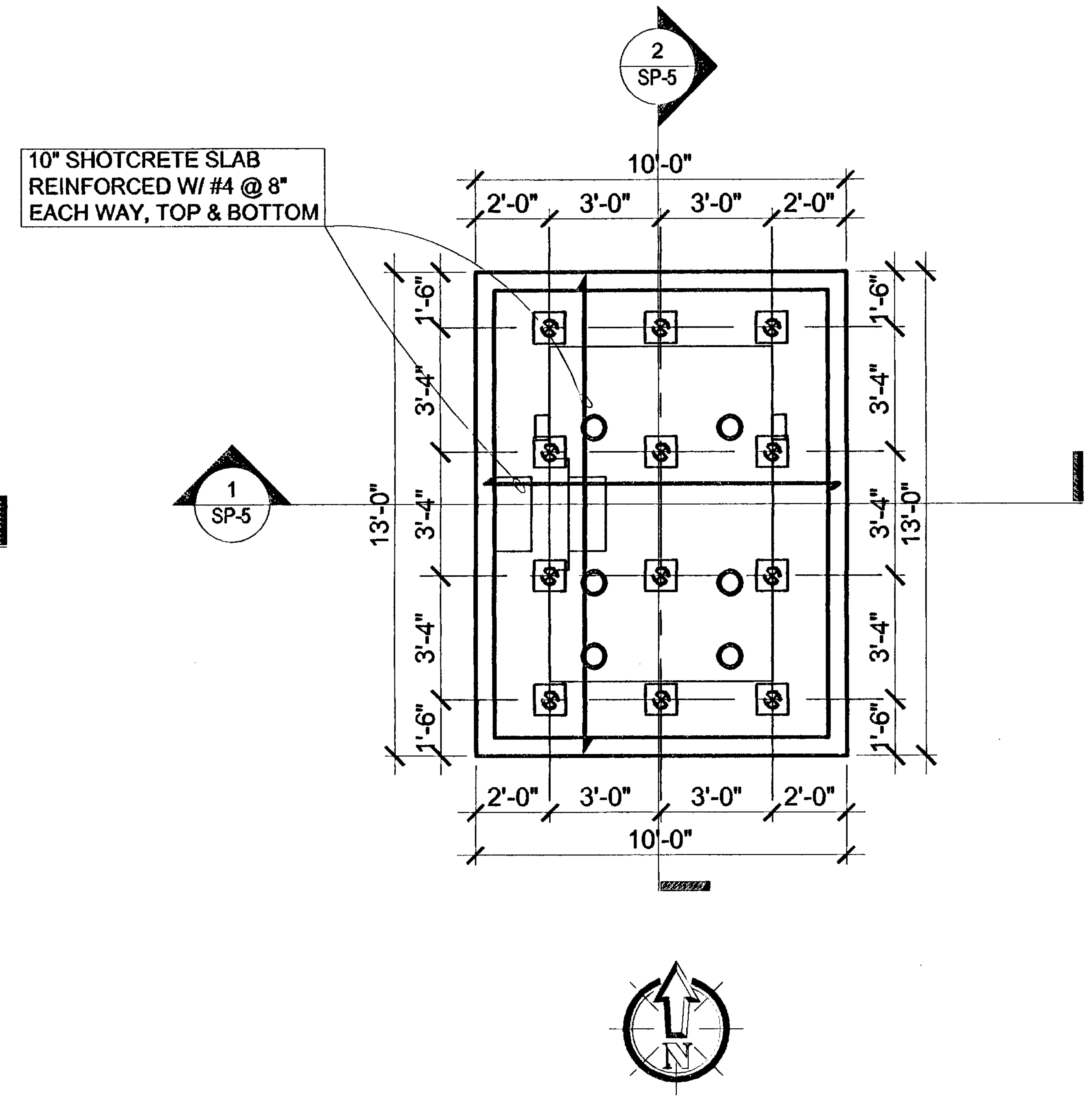
G. ALL REINFORCING BARS MARKED CONTINUOUS SHALL BE LAPPED 30 DIA. AT SPLICES AND CORNERS UNLESS OTHERWISE NOTED. LAP CONTINUOUS TOP BARS AT CENTER BETWEEN SUPPORTS AS REQUIRED. TERMINATES CONTINUOUS BARS AT NON-CONTINUOUS ENDS WITH STANDARD HOOKS, U.O.N.

H. MINIMUM CONCRETE COVER FOR REINFORCEMENT:
  I. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ——— 3"
  II. CONCRETE EXPOSED TO EARTH OR WEATHER
    #6 BARS AND LARGER ——— 2"
    #5 BARS AND SMALLER ——— 1 1/2"
  III. CONCRETE NOT EXPOSED TO WEATHER OR IN IN CONTACT WITH EARTH:
    SLABS AND WALLS ——— 1 1/2"
    BEAMS AND COLUMNS ——— 1 1/2"



KOI POND PILING LAYOUT PLAN 1/4"=1'-0"

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

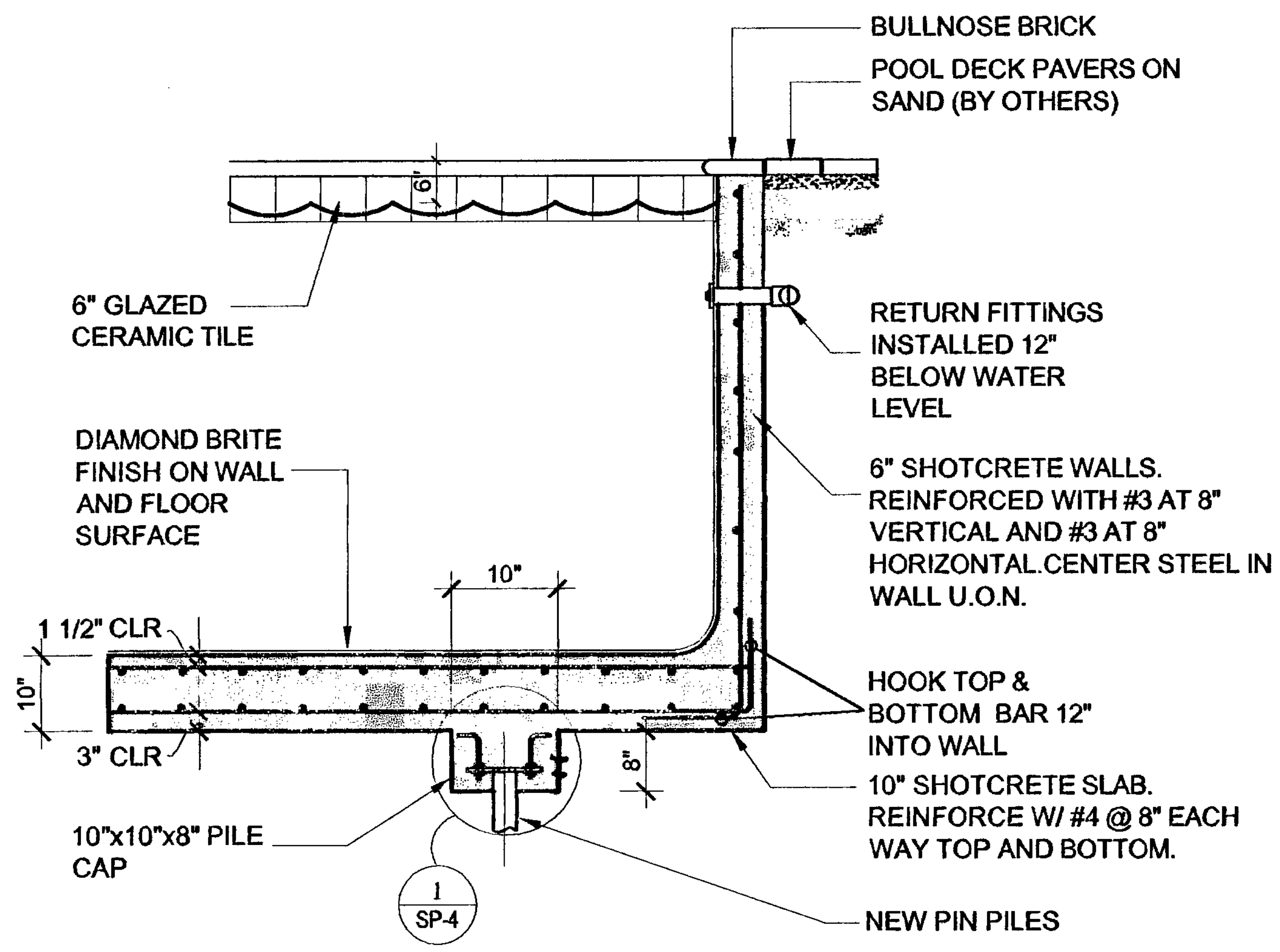


SPA PILING LAYOUT PLAN 1/4"=1'-0"

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

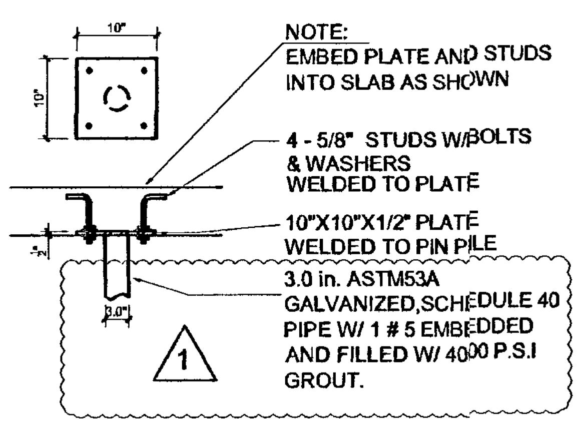
LEGEND

⊗	5 TON CAPACITY PIN PILES
□	10"X10" X 8" PILE CAP EMBED PILE 4".



TYPICAL WALL SECTION

SCALE 1/2"=1'-0"



1 SP-4 PIN PILE DETAIL
SCALE: 3/4"=1'-0"

Revision 1 — REVISION
REVISED DATE: 03/31/2008
1. CHANGED NOTES AS PER BLDG. DEPT.

AQUADYNAMICS
DESIGN GROUP, INC.
AQUATIC ENGINEERING CONSULTANTS

NOTICE TO BUILDER

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PROJECT NAME: Gainor Residence
5800 N. Bay Rd
Miami Beach, FL

JOB No.	
DATE	12-21-07
DRAWN BY	D.A/N.P
SCALE	AS NOTED
SHEET	SHEET 4 OF 8

SEAL: OFELIA TABOADA, P.E.
PROFESSIONAL REG. No. 55339
CIVIL ENGINEER

DRAWING NUMBER: SP-4

STRUCTURAL NOTES

1.- FOUNDATION:

A. THE FOUNDATION SYSTEM CONSIST OF 5 TON. PIN PILES.

B. PIN PILES SHALL BE INSTALLED TO DEVELOP A COMPRESSION CAPACITY OF 5 TONS ESTIMATED & 2 TONS TENSION.

C. PILE INSTALLATION SHALL BE SUPERVISED BY PILE CONTRACTOR STATE REGISTERED P.E.

D. PILE INSTALLATION SHALL CONFORM TO THE FLORIDA BUILDING CODE, LASTED EDITION.

E. CONTRACTOR SHALL PROVIDE TO THE STRUCTURAL ENGINEER OF RECORD AN AS-BUILT PLAN SHOWING PRECISE IDENTIFICATION AND LOCATION OF EVERY PILE FOR REVIEW AND APPROVAL PRIOR TO POURING OF PILE CAPS.

F. THE ABOVE FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT AND BORINGS BY DYNATECH ENGINEERING CORP. DATE APRIL 5,2005

2.- GENERAL:

A. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE FLORIDA BUILDING CODE, 2002 EDITION, ASCE I-93 MINIMUM DESIGN LOADS FOR BUILDINGS, THE ACI 318-95 BUILDING CODE, AND ALL APPLICABLE FEDERAL, STATE AND LOCAL ORDINANCES.

B. THESE DRAWINGS AND SPECIFICATIONS COMPLY, TO THE BEST OF MY KNOWLEDGE WITH THE APPLICABLE MINIMUM BUILDING CODE.

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D. THESE DRAWINGS SHALL BE WORKED TOGETHER WITH ARCHITECTURAL, AIR CONDITIONING, MECHANICAL AND ELECTRICAL DRAWINGSTO LOCATED DEPRESSED SLABS, SLOPES, DRAINS, OULETS, RECESSES, OPENINGS, REGLETS, BOLT SETTINGS, SLEEVES, ETC. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.

E. WHEN PERFORMING WORK BELOW GRADE, CARE SHALL BE TAKEN TO AVOID DAMAGING ANY EXISTING UTILITIES. ALL UNKNOWN UTILITIES DISCOVERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTEN- TION OF THE ARCHITECT/ENGINEER. ANY DAMAGE TO THE EXISTING UTILITIES SHALL BE REPORTED TO ALL AFFECTED PARTIES, INCLUDING THE ARCHITECT/ENGINEER.

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L. SUBMITTALS TO STRUCTURAL ENGINEER:
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   II. REINFORCING STEEL SHOP DRAWINGS.
   III. PILE DETAIL, INCLUDING SIZE, CAPACITY, AND REINFORCING.
   IV. PILE INSTALLATION LOGS.

3.- CONCRETE:

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B. SHOTCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 5000 PSI.

C. FORM WORK SHALL COMPLY WITH ACI 347-88 "RECOMMENDED PRACTICE FOR CONCRETE WORK".

D. MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY CONCRETE WORK.

E. NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.

F. THE OWNER SHALL CONTRACTOR AN INDEPENDENT TESTING LABORATORY TO PERFORM CONCRETE CYLINDER TESTS AS FOLLOWS: FOUR CYLINDER TEST FOR ANY 50 CUBIC YARDS OF CONCRETE POURED, OR THREE CYLINDER TESTS PER ANY DAY. POUR LESS THAT 50 CUBIC YARDS. ONE CYLINDER SHALL BE TESTED AT 7 DAYS, TWO AT 28 DAYS.

G. TRANSPORTING, PLACING, CURING AND DEPOSITING OF CONCRETE SHALL COMPLY WITH ACI 301-96.

4.- REINFORCING STEEL:

A. REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 318-95.

B. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A 615 (SI) GRADE 60.

C. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185-94.

D. REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING PLACING OF CONCRETE.

E. ALL TOP REINFORCING SHALL TERMINATE WITH STANDARD HOOKS AT DISCONTINUOUS EDGES OR ENDS.

F. ALL BOTTOM BARS SHALL BEAR 6" MINIMUM OVER SUPPORTS, U.O.N.

G. ALL REINFORCING BARS MARKED CONTINUOUS SHALL BE LAPPED 30 DIA. AT SPLICES AND CORNERS UNLESS OTHERWISE NOTED. LAP CONTINUOUS TOP BARS AT CENTER BETWEEN SUPPORTS AS REQUIRED. TERMINATES CONTINUOUS BARS AT NON-CONTINUOUS ENDS WITH STANDARD HOOKS, U.O.N.

H. MINIMUM CONCRETE COVER FOR REINFORCEMENT:
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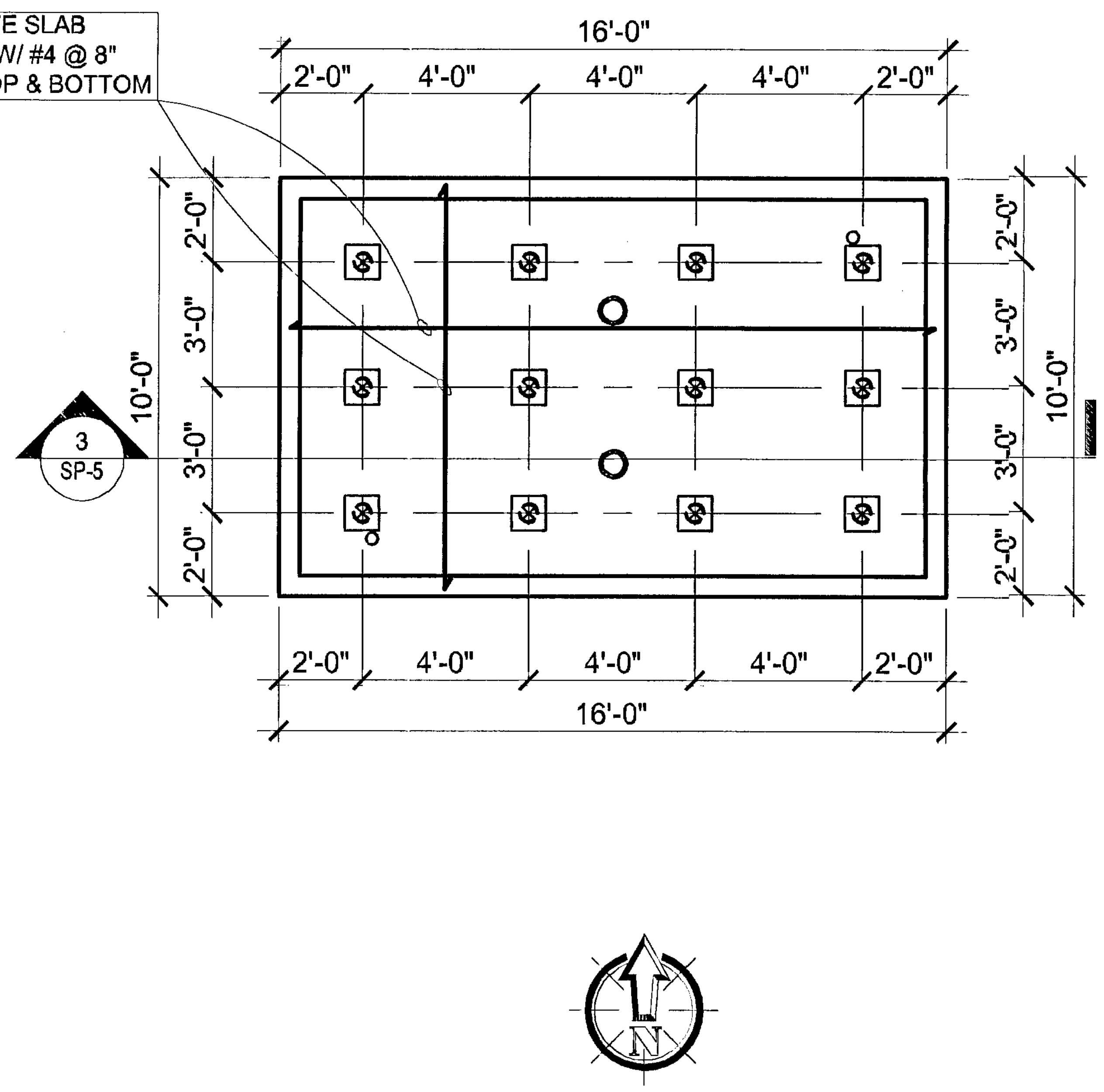
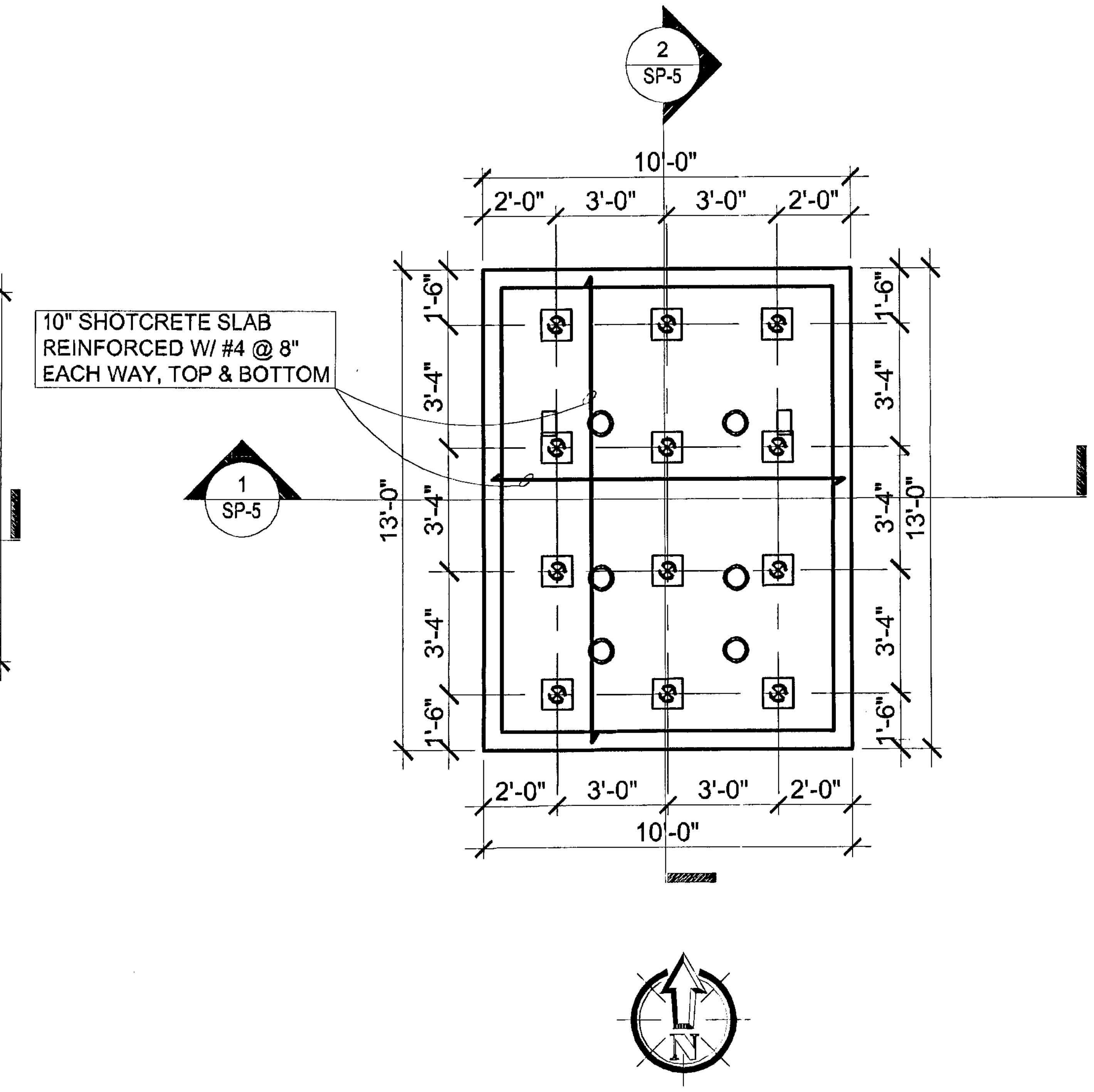
   II. CONCRETE EXPOSED TO EARTH OR WEATHER
   #6 BARS AND LARGER ——— 2"
   #5 BARS AND SMALLER ——— 1 1/2"
   III. CONCRETE NOT EXPOSED TO WEATHER OR IN IN CONTACT WITH EARTH:
   SLABS AND WALLS ——— 1 1/2"
   BEAMS AND COLUMNS ——— 1 1/2"



KOI POND PILING LAYOUT PLAN 1/4"=1'-0"

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

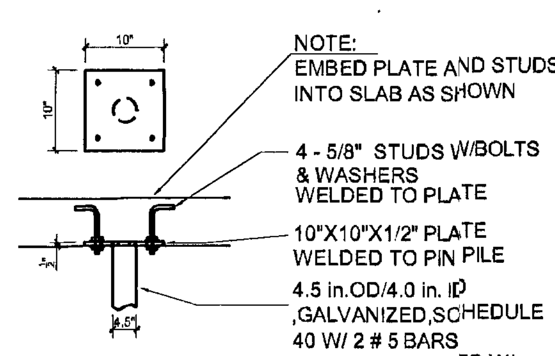


SPA PILING LAYOUT PLAN 1/4"=1'-0"

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

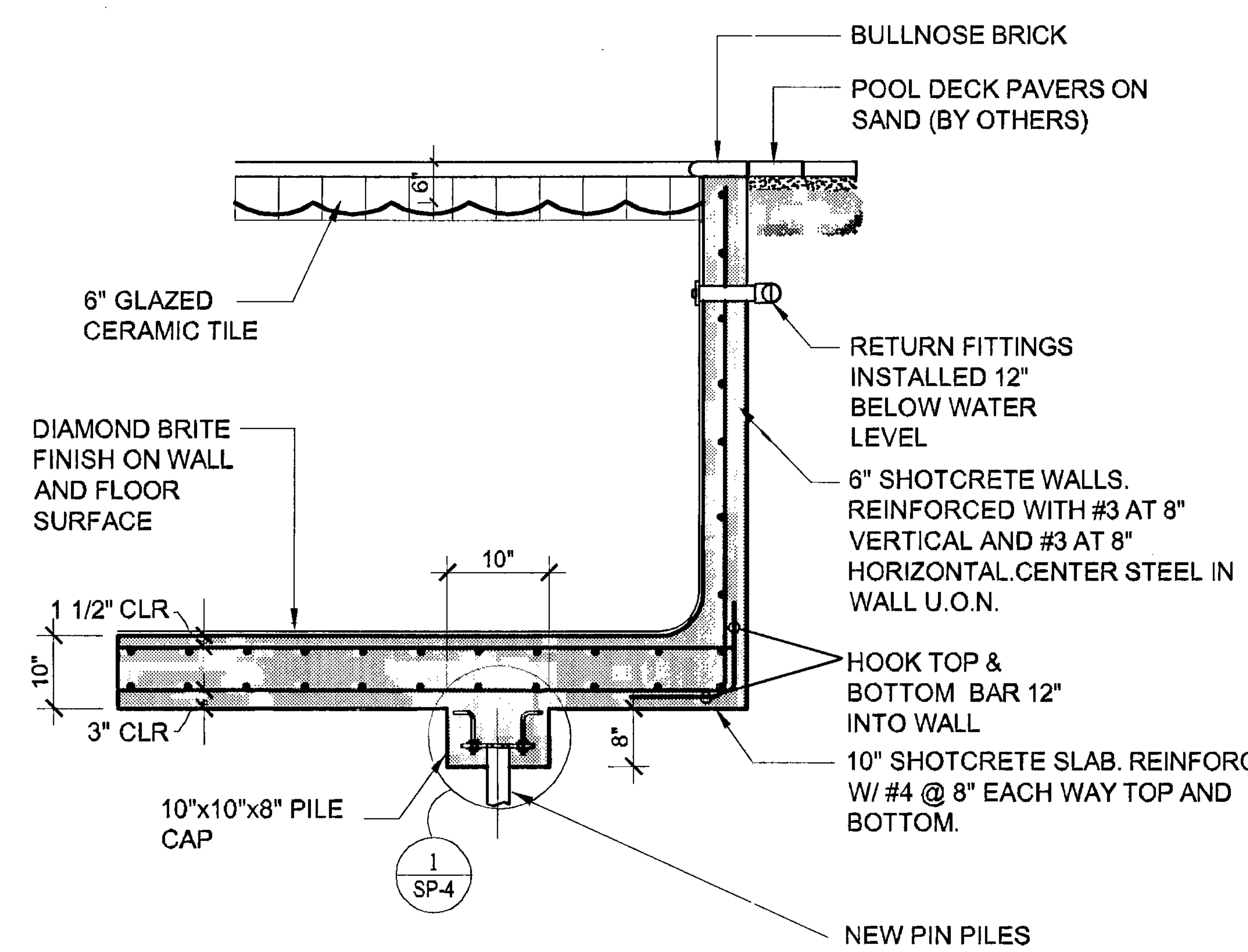
LEGEND

(pile symbol)	5 TON CAPACITY PIN PILES
(square symbol)	10"X10" X 8" PILE CAP EMBED PILE 4".



1 SP-4 PIN PILE DETAIL

SCALE: 3/4"=1'-0"



TYPICAL WALL SECTION

SCALE 1/2"=1'-0"

AQUADYNAMICS
DESIGN GROUP, INC.
AQUATIC ENGINEERING CONSULTANTS

NOTICE TO BUILDER

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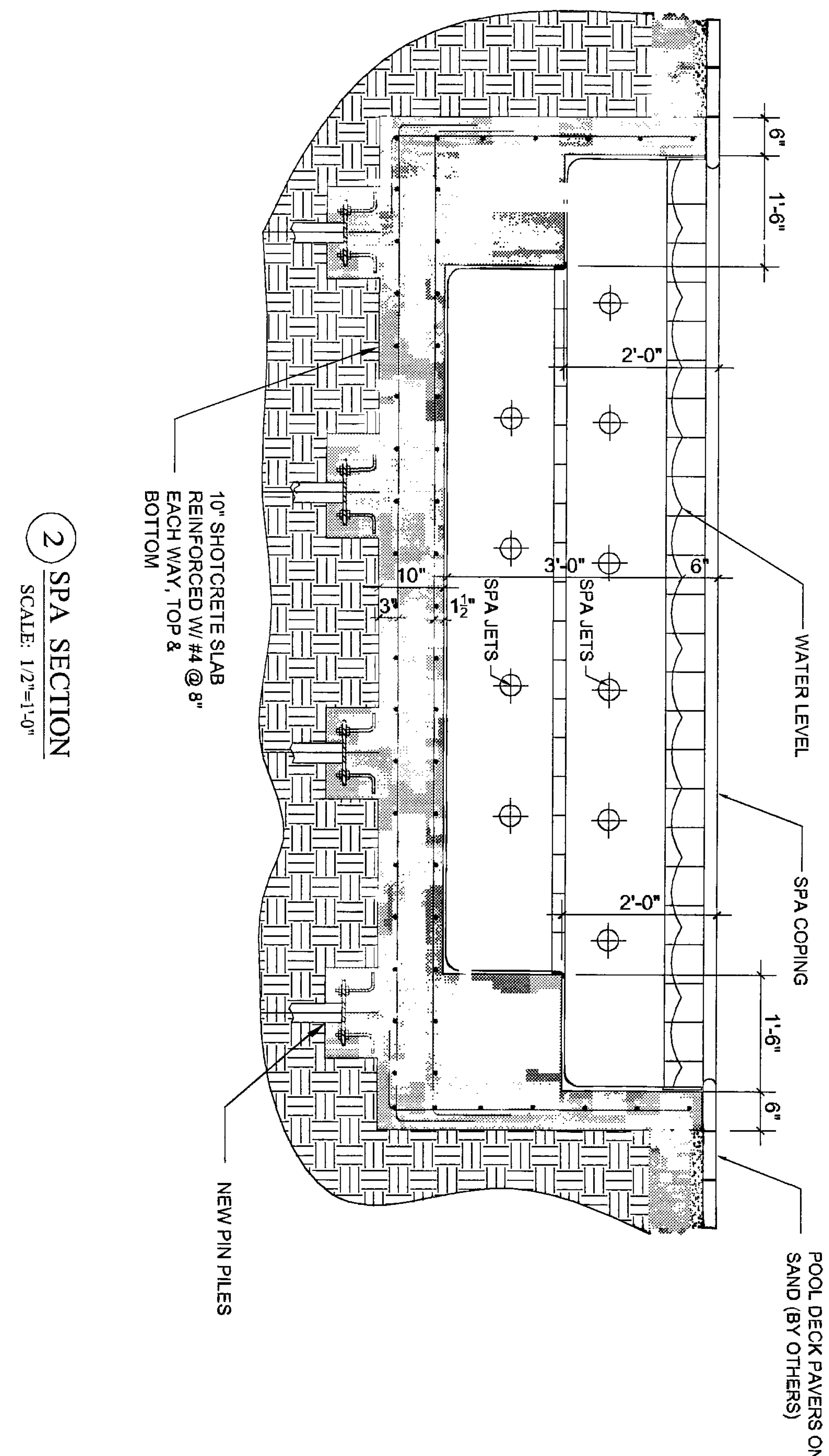
PROJECT NAME:
Gainor Residence
5800 N. Bay Rd
Miami Beach, FL

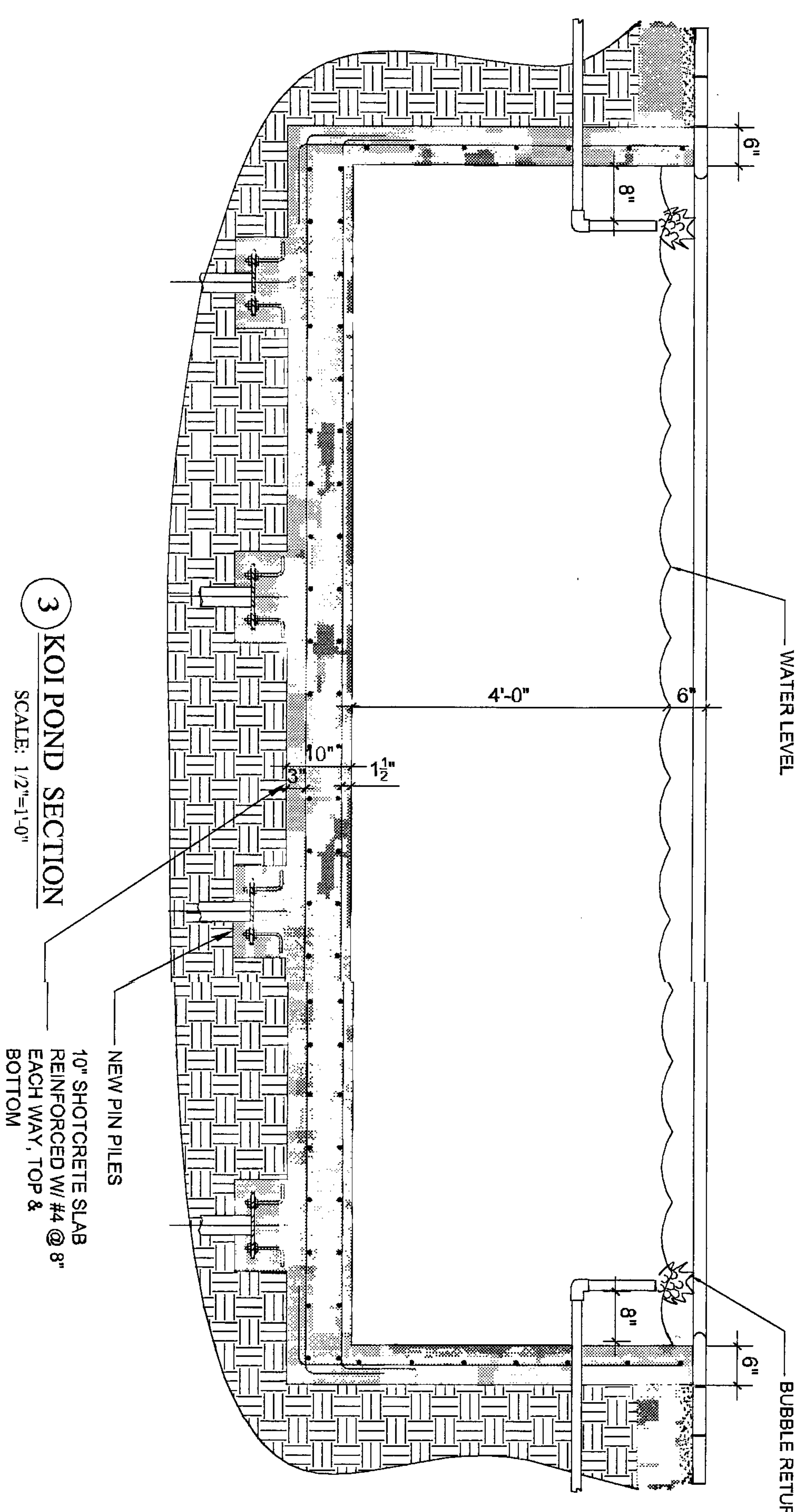
JOB No.	
DATE	12-21-07
DRAWN BY	D.A./N.P
SCALE	AS NOTED
SHEET	SHEET 4 OF 8

SEAL:
OFELIA TABOADA, P.E.
PROFESSIONAL REG. No. 55339
CIVIL ENGINEER

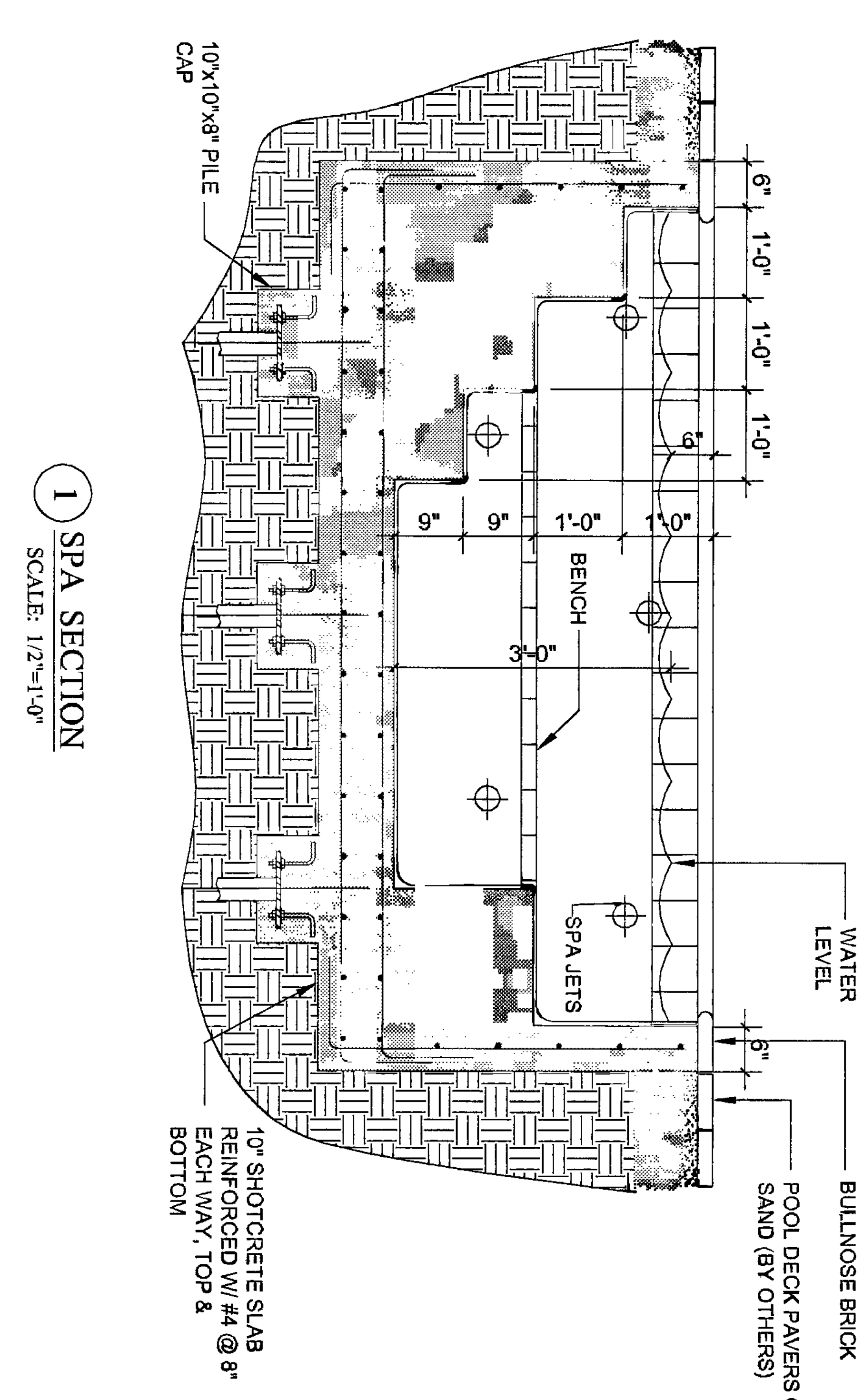
DRAWING NUMBER
SP-4



2 SPA SECTION
SCALE: 1/2"=1'-0"



3 KOI POND SECTION
SCALE: 1/2"=1'-0"



1 SPA SECTION
SCALE: 1/2"=1'-0"

DRAWING NUMBER	SEAL:	JOB No.		PROJECT NAME:	NOTICE TO BUILDER
SP-5	OFELIA TABOADA, P.E. PROFESSIONAL REG. No. 55339 CIVIL ENGINEER	DATE	12-21-07	Gainor Residence 5800 N. Bay Rd Miami Beach, FL	TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THE INFORMATION CONTAINED ON THESE DRAWINGS CONFORMS TO THE STANDARDS SET IN THE FLORIDA BUILDING CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, AND FIELD CONDITIONS PRIOR TO THE START OF THE WORK, AND NOTIFYING THE ENGINEER, AT ONCE, OF ANY AND ALL ERRORS, DISCREPANCIES, IRREGULARITIES, OR OMISSIONS PERTAINING TO THE SUCCESSFUL COMPLETION OF THE PROJECT INDICATED.
		DRAWN BY	D.A/N.P		
		SCALE	AS NOTED		
		SHEET	SHEET 5 OF 8		

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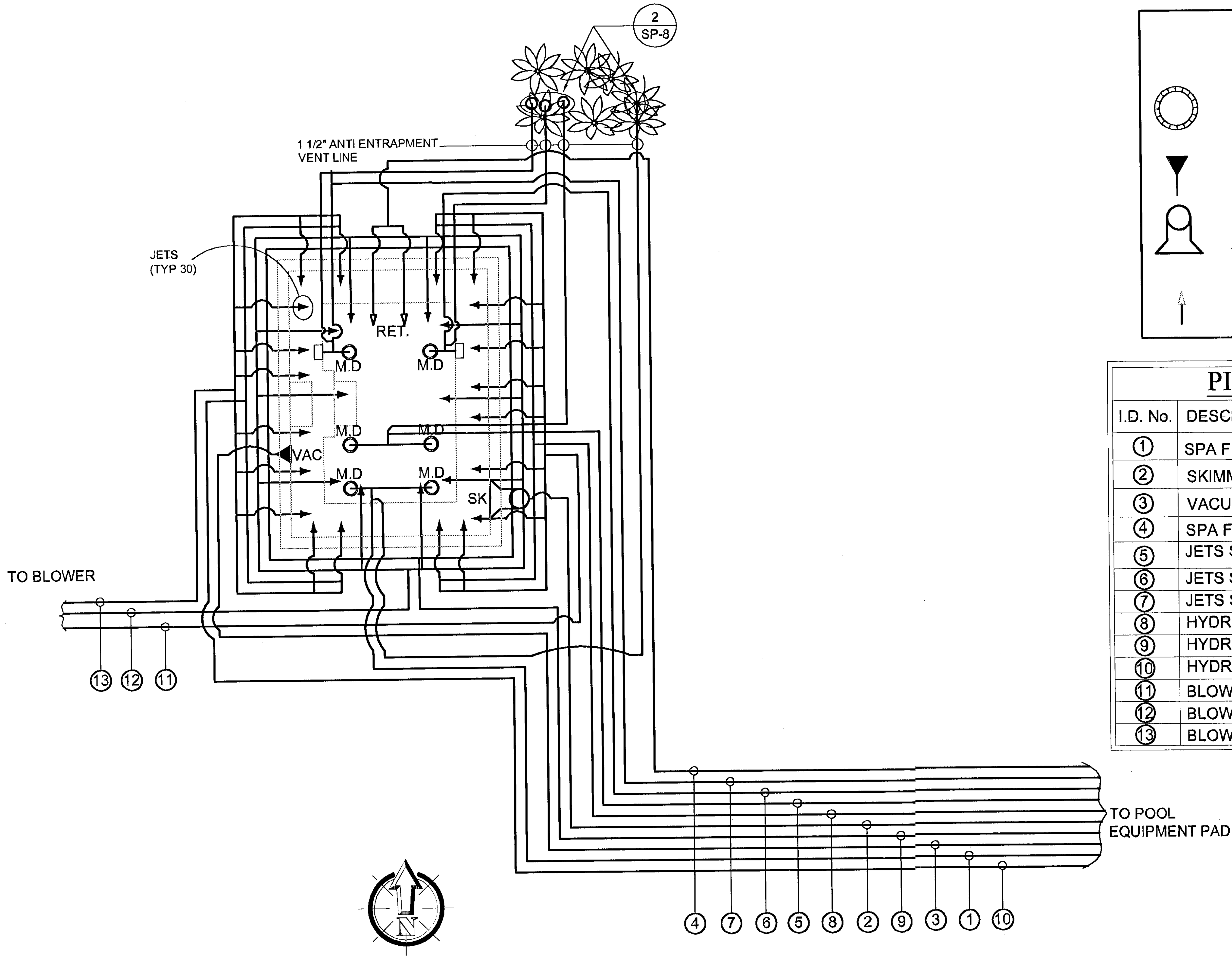
4910 SW 72nd AVENUE, MIAMI, FLORIDA 33155 PHONE: (305) 667-6973 FAX: (305) 662-1002
E-MAIL: info@aquadynamics.biz WEB SITE: www.aquadynamics.biz EB 4694

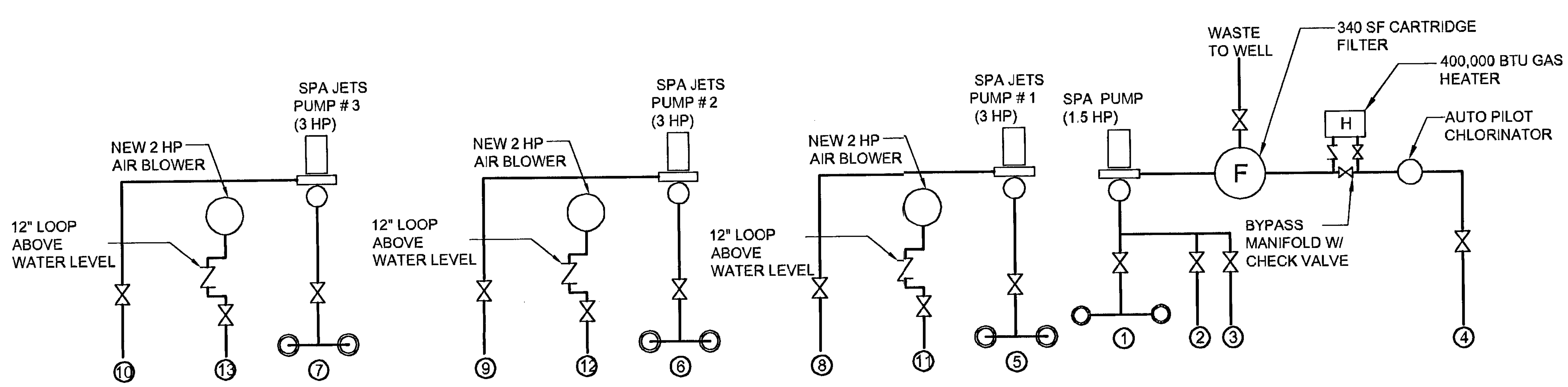


	PVC SCHEDULE 40 NSF APPVD. PIPE (VENT LINE)
	ANTI-VORTEX MAIN DRAIN ASSEMBLY
	2" VACUUM FITTING WITH VAC LOCK COVER
	TOP LOADING NSF APPROVED SURFACE SKIMMER
	1 1/2" ADJUSTABLE EYEBALL POOL/SPA RETURN FITTING

PIPING LEGEND

I.D. No.	DESCRIPTION	SIZE
1	SPA FILTER MAIN DRAIN LINE	2"
2	SKIMMER LINE	2"
3	VACUUM LINE	2"
4	SPA FILTER RETURN LINE	2"
5	JETS SUCTION LINE #1	3"
6	JETS SUCTION LINE #2	3"
7	JETS SUCTION LINE #3	3"
8	HYDRO JETS RETURN LINE # 1	2.5"
9	HYDRO JETS RETURN LINE # 2	2.5"
10	HYDRO JETS RETURN LINE # 3	2.5"
11	BLOWER JETS LINE # 1	2"
12	BLOWER JETS LINE # 2	2"
13	BLOWER JETS LINE # 3	2"

SPA PIPING PLAN 1/4"=1'-0"



FLOW DIAGRAM-SPA (4) PUMP SYSTEM

N.T.S.

AQUADYNAMICS
DESIGN GROUP INC.
AQUATIC ENGINEERING CONSULTANTS
WATER PARK & FAMILY AQUATIC CENTER DESIGN / RESORT, HOTEL & CONDOMINIUM POOL DESIGN
FORENSICS, EVALUATIONS & ANALYSIS / DOH VIOLATIONS, VARIANCES, PERMITTING / CUSTOM RESIDENTIAL DESIGN
4910 SW 72nd AVENUE, MIAMI, FLORIDA 33155 PHONE: (305) 667-8975 FAX: (305) 662-1002
E-MAIL: info@aquadynamics.biz WEB SITE: www.aquadynamics.biz EB 4684

NOTICE TO BUILDER

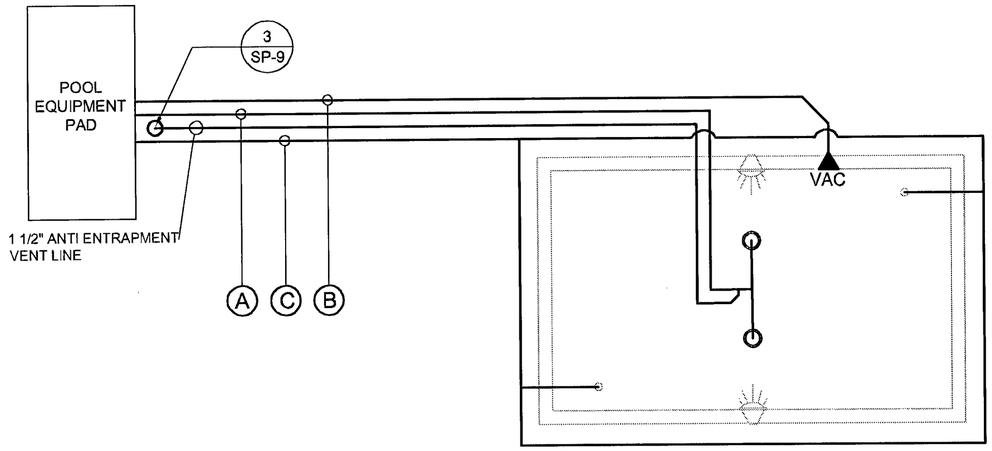
TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THE INFORMATION CONTAINED ON THESE DRAWINGS CONFORMS TO THE STANDARDS SET IN THE FLORIDA BUILDING CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, AND FIELD CONDITIONS PRIOR TO THE START OF THE WORK, AND NOTIFYING THE ENGINEER, AT ONCE, OF ANY AND ALL ERRORS, DISCREPANCIES, IRREGULARITIES, OR OMISSIONS PERTAINING TO THE SUCCESSFUL COMPLETION OF THE PROJECT INDICATED.

PROJECT NAME:
Gainor
Residence
5800 N. Bay Rd
Miami Beach, FL

JOB No.	
DATE	12-21-07
DRAWN BY	D.A/N.P
SCALE	AS NOTED
SHEET	SHEET 6 OF 8

SEAL:
OFELIA TABOADA, P.E.
PROFESSIONAL REG. No. 55339
CIVIL ENGINEER

DRAWING NUMBER
SP-6



KOI POND PIPING PLAN 1/4"=1'-0"

PVC SCHEDULE 40 NSF APPVD. PIPE (VENT LINE)

ANTI-VORTEX MAIN DRAIN ASSEMBLY

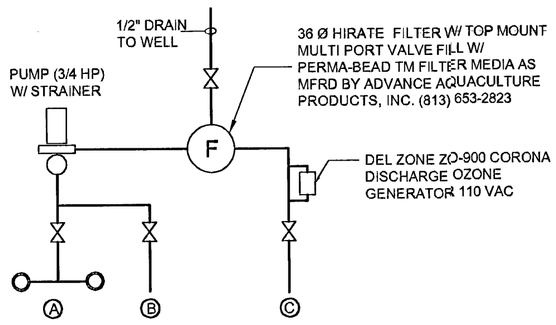
2" VACUUM FITTING WITH VAC LOCK COVER

TOP LOADING NSF APPROVED SURFACE SKIMMER

1 1/2" ADJUSTABLE EYEBALL POOL/SPA RETURN FITTING

PIPING LEGEND

I.D. No.	DESCRIPTION	SIZE
Ⓐ	KOI POND FILTER SUCTION LINE	2"
Ⓑ	VACUUM LINE	2"
Ⓒ	FLOOR BUBBLE RETURN LINE	1"



KOI POND FLOW DIAGRAM

N.T.S.

AQUADYNAMICS
AQUATIC ENGINEERING GROUP CONSULTANTS
WATER PARK & FAMILY AQUATIC CENTER DESIGN / RESORT, HOTEL & CONDOMINIUM POOL DESIGN
FORENSICS, EVALUATIONS & LITIGATION SUPPORT / FEASIBILITY STUDIES / CONCEPTUAL DESIGN
4910 SW 72nd AVENUE, MIAMI, FLORIDA 33155 PHONE: (305) 667-8971 FAX (305) 662-1902
E-MAIL: info@aquadynamics.biz WEB SITE: www.aquadynamics.biz CBE #364

NOTICE TO BUILDER

"TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THE INFORMATION CONTAINED ON THESE DRAWINGS CONFORMS TO THE STANDARDS SET IN THE FLORIDA BUILDING CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND FIELD CONDITIONS PRIOR TO THE START OF THE WORK, AND NOTIFYING THE ENGINEER, AT ONCE, OF ANY AND ALL ERRORS, DISCREPANCIES, IRREGULARITIES, OR OMISSIONS PERTAINING TO THE SUCCESSFUL COMPLETION OF THE PROJECT INDICATED.

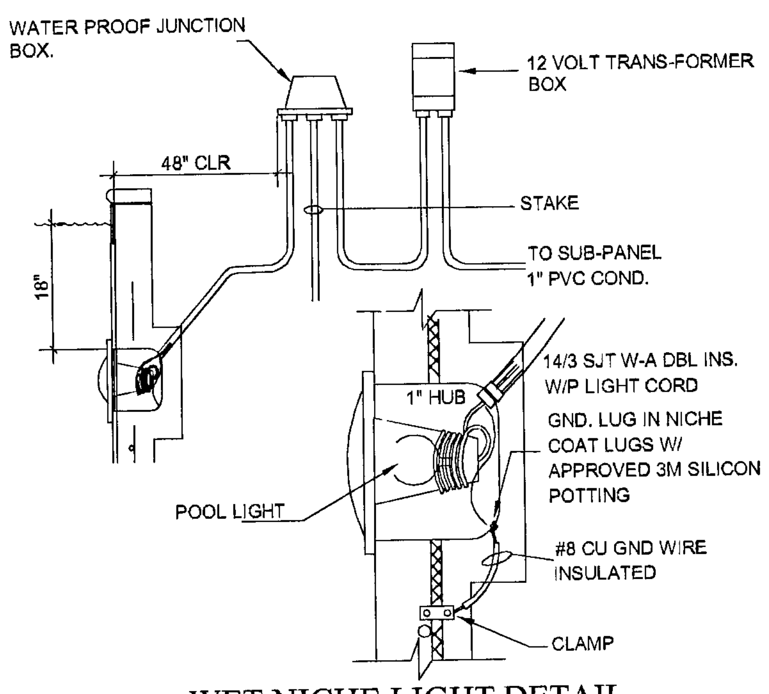
PROJECT NAME:
Gainor Residence
5800 N. Bay Rd
Miami Beach, FL

JOB No.

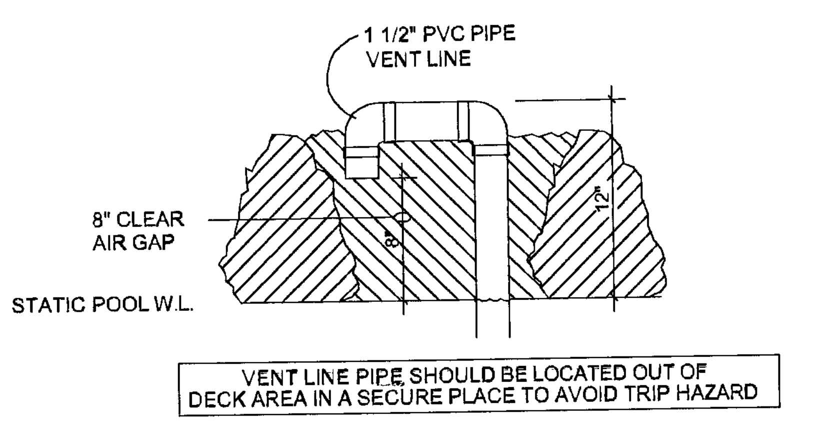
DATE	12-21-07
DRAWN BY	D.A/N.P
SCALE	AS NOTED
SHEET	SHEET 7 OF 8

SEAL:
ORELIA TABOADA, P.E.
PROFESSIONAL REG. No. 55339
CIVIL ENGINEER

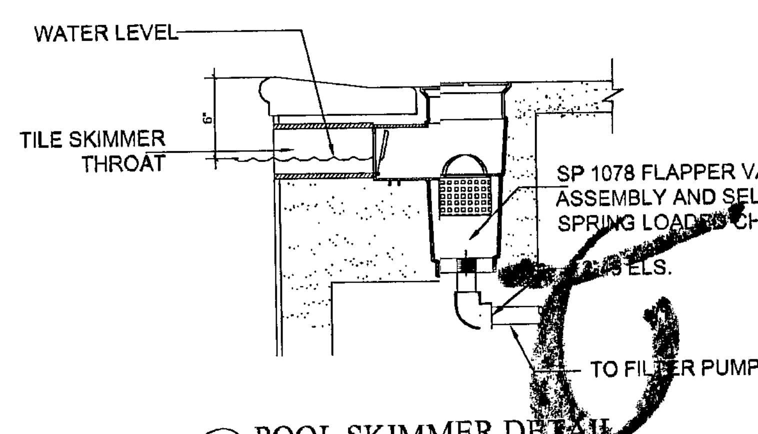
DRAWING NUMBER
SP-7



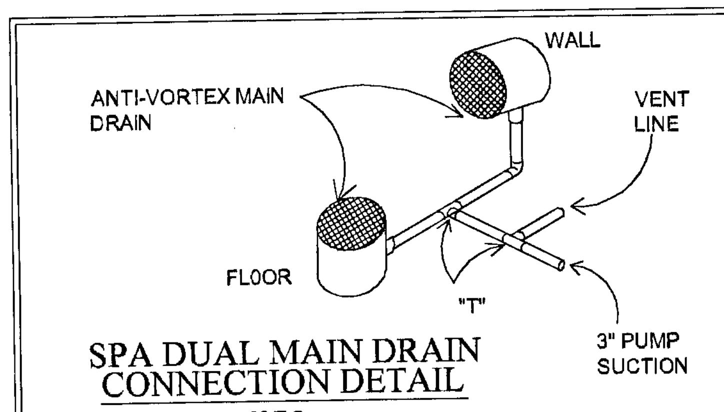
(1) WET NICHE LIGHT DETAIL
N.T.S.



(2) ANTI-ENTRAPMENT VENT LINE DETAIL
NO SCALE



(4) POOL SKIMMER DETAIL
N.T.S.



SPA DUAL MAIN DRAIN CONNECTION DETAIL
N.T.S.

PIPE SIZE	PRESSURE FLOW CAPACITY (10FPS)	SUCTION FLOW CAPACITY(8FPS)
1.5"	60 gpm	49 gpm
2.0"	100 gpm	80 gpm
2.5"	150 gpm	110 gpm
3.0"	220 gpm	180 gpm

PUMPING FLOW RATES @ 60 TDH

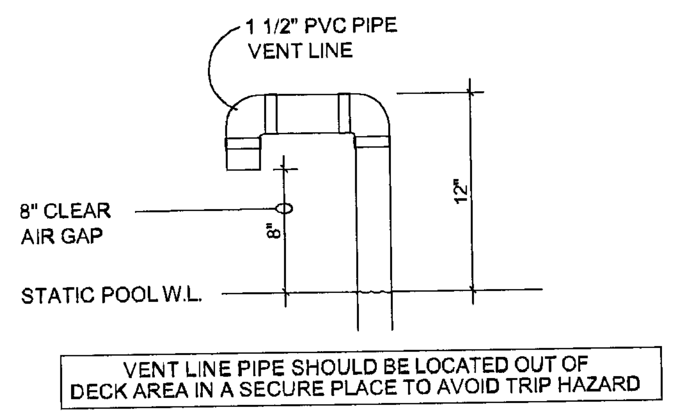
3/4 hp =	55 gpm
1.0 HP =	75 gpm
1.5 HP =	90 gpm
2.0 HP =	95 gpm
2.5 HP =	115 gpm
3.0 HP =	140 gpm

BASED UPON STA-RITE MAX-E-GLASS II SELF PRIMING PUMP

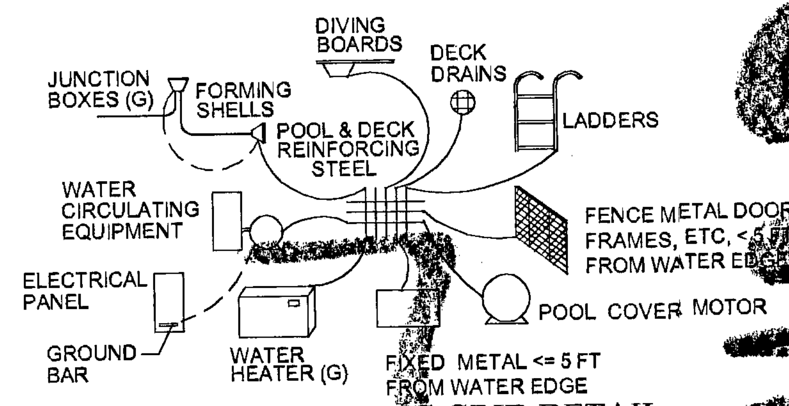
VENT PIPE MAX. LENGTH

HP	FLOW RATE	VENT SIZES	MAX LENGTH
3/4	55 gpm	1 1/2"	29 LF
1	75 gpm	1 1/2"	40 LF
1.5	90 gpm	1 1/2"	49 LF
2	95 gpm	1 1/2"	51 LF
2.5	115 gpm	1 1/2"	62 LF
3	140 gpm	1 1/2"	76 LF

-Vent is designed to evacuate suction in 3 sec. or less per FBC 424
-This safety vacuum relief system is a non-mechanical vent system that will limit the transmission of suction at the outlet to a maximum of 4.5" of mercury.

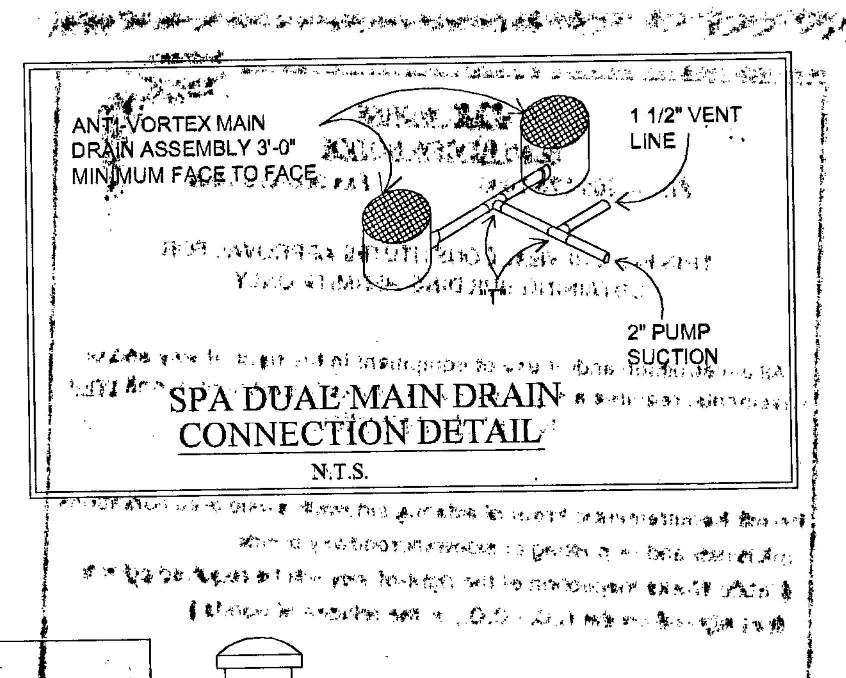


(3) ANTI-ENTRAPMENT VENT LINE DETAIL
NO SCALE

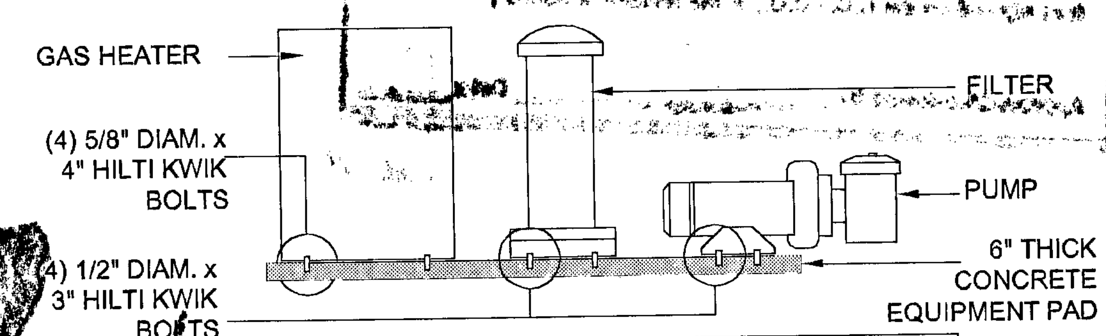


COMMON BONDING GRID DETAIL
N.T.S.

COMMON BONDING GRID PERMITTED TO BE:
. STRUCTURAL REINFORCING STEEL RODS THAT ARE BONDED TOGETHER
. WALL OF BOLTED OR WELDED METAL POOL.
. SOLID COPPER CONDUCTOR NO. 8 OR LARGER

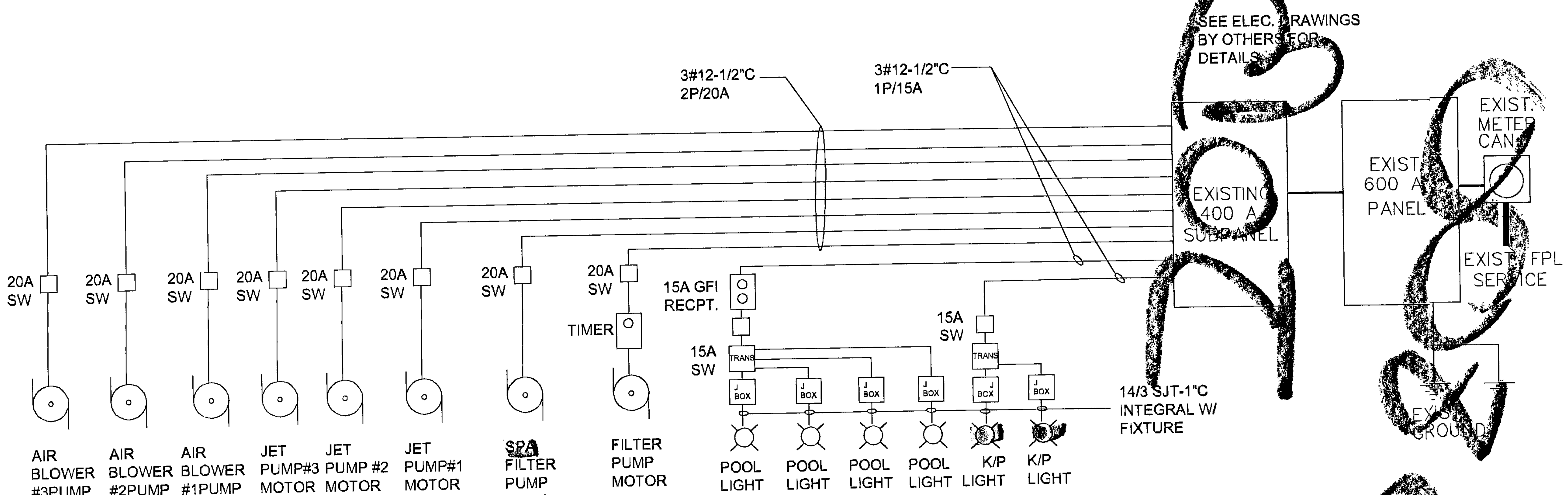


SPA DUAL MAIN DRAIN CONNECTION DETAIL
N.T.S.



GENERAL NOTES:
1. POOL MECHANICAL EQUIPMENT ANCHORAGE HAS BEEN DESIGNED TO COMPLY WITH F.B.C. SECT. 301.13
2. ALL EQUIPMENT SHALL BE PLACED ON A SINGLE EQUIPMENT SLAB. SEPARATE SLABS ARE NOT PERMITTED.

FILTER/ PUMP/ HEATER ANCHORAGE DETAIL
N.T.S.



POOL ELECTRICAL SCHEMATIC
N.T.S.

SWIMMING POOL EQUIPMENT LOAD SUMMARY

POOL PUMP 1 AT 100%=	7,480 WATTS
SPA PUMP 1 AT 100%=	1,840 WATTS
JETPUMP#1 1 AT 100%=	3,918 WATTS
JET PUMP#2 1 AT 100%=	3,918 WATTS
JET PUMP#3 1 AT 100%=	3,918 WATTS
AIR BLOWER 1 1 AT 100%=	2,760 WATTS
AIR BLOWER 2 1 AT 100%=	2,760 WATTS
AIR BLOWER 3 1 AT 100%=	2,760 WATTS
POOL LIGHT AT 100%=	1,200 WATTS
K/POND LIGHT AT 100%=	200 WATTS
SUB-TOTAL=	30,754 WATTS

TOTAL DEMAND 30,754 WATTS / 230 V = 133.7 AMPS.
TOTAL CURRENT DEMAND: 133.7 AMPS.

AQUADYNAMICS
DESIGN GROUP, INC
AQUATIC ENGINEERING CONSULTANTS
WATER PARK & FAMILY AQUATIC CENTER DESIGN / RESORT, HOTEL & CONDOMINIUM POOL DESIGN
FORENSICS, EVALUATIONS & ANALYSIS / CODE VIOLATIONS, VARIANCES, PERMITTING / CUSTOM RESIDENTIAL DESIGN

NOTICE TO BUILDER
TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THE INFORMATION CONTAINED ON THESE DRAWINGS CONFORMS TO THE STANDARDS SET IN THE FLORIDA BUILDING CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND FIELD CONDITIONS PRIOR TO THE START OF THE WORK, AND NOTIFYING THE ENGINEER, AT ONCE, OF ANY AND ALL ERRORS, DISCREPANCIES, OR OMISSIONS PERTAINING TO THE SUCCESSFUL COMPLETION OF THE PROJECT INDICATED.

PROJECT NAME:
Gainor Residence
5800 N. Bay Rd
Miami Beach, FL

JOB No.	
DATE	12-21-07
DRAWN BY	D.A/N.P
SCALE	AS NOTED
SHEET	SHEET 8 OF 8

SEAL:
OFELIA TABOADA, P.E.
PROFESSIONAL REG. No. 55339
CIVIL ENGINEER

DRAWING NUMBER
SP-8

B0802336
5800 N Bay Road
JOB COPY

PUBLIC WORKS
PLAN REVIEW NOTICE
Phone 305-673-7080 Fax 305-673-7028

THIS PLAN REVIEW CONSTITUTES APPROVAL FOR OBTAINING BUILDING PERMITS ONLY.

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

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

Approved/Reviewed By: ________ Date: 03/26/08

JOB COPY
CITY OF MIAMI BEACH
APP...

...DING:	4/11/08
...NING:	C 3/20/08
...RB/HPB:	
CONCURRENCY	
PLUMBING:	04/08/08
ELECTRICAL:	04/08/08
MECHANIC...	03/21/08
FIRE PREVE...	
ENGINEERING:	
PUBLIC WORKS:	04/11/08
STRUCTURAL:	04/11/08
ACCESSIBILITY.	
ELEVATOR:	

As per ... Code Section 104.5 ...
... COMPLIANCE

CITY OF MIAMI BEACH
BUILDING DEPARTMENT
1700 CONVENTION CENTER DRIVE
2ND FLOOR - CITY HALL
MIAMI BEACH, FL 33139

NOTICE TO THE CITY OF MIAMI BEACH BUILDING DEPARTMENT OF EMPLOYMENT AS SPECIAL INSPECTOR UNDER THE FLORIDA BUILDING CODE

I, (we) have been retained by: Mr. Gamon to perform special inspector services under the Florida Building Code at the 5800 N. Bay Rd. project on the below listed structures as of 4/4/08 (date). I am a professional engineer licensed in the State of Florida.

Process Number: BD802336 **Master Permit (IF APPLICABLE):** _____

- ● Special Inspector for Pilings, FBC 1822.1.20
- ○ Special Inspector for Soil Compaction, FBC 1820.3.1
- ○ Special Inspector for Precast Attachments, FBC 1927.12.2 (By P.E. or R.A..)
- ○ Special Inspector for Reinforced Masonry, FBC 2122.4
- ○ Special inspection for Steel Bolted & Welded Connections, FBC 2218.2 (By P.E. or R.A..)
- ○ Special Inspector for Trusses over 35 feet long or 6 feet high, FBC 2319.17.2.4.2 (By P.E. or R. A..)
- ○ Special Inspector for _____

NOTE: Only the marked boxes apply.

The following individual's) employed by this firm or me are authorized representatives to perform inspections*

1. ROBERT N TRACY
2. _____
3. _____
4. _____

***NOTE: FBC 2001 HVZ sections 1927.12.2, 2218.2, 2319.17.4.2 requires either a Registered professional Engineer or Registered Architect to perform the actual inspections.**

I, (we) will notify the City of Miami Beach Building Department of any changes regarding authorized personnel performing inspection services.

I, (we) understand that a Special Inspection Log for each building must be displayed in a convenient location on the site for reference by the City of Miami Beach Building Department Inspector. All mandatory inspections, as required of the Florida Building Code, Inspection performed by the Special Inspector hired by the Owner are in addition to the mandatory inspections performed by the Building Department. Further, upon completion of the work under each building permit, I will submit to the Building Inspector at the time of final inspection the completed Inspection Log form and sealed statement that, to the best of my knowledge, belief and professional judgment those portions outlined above meet the intent of the Florida Building Code and are in subsequent accordance with the approved plans.

Signed and Sealed

11363
License Number

Date: 4/1/08

Architect/Engineer Signature: _____

Architect/Engineer Name Printed: ROBERT N TRACY

Address: 4660 SW 128 Ave, DAVIE, FL

Phone Number: 954-434-5035

Owner/Agent Signature: _____

Owner/Agent Name Printed: MARK GAMON

Building Department Accepted By: _____ 4/10/08

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

Bldg Electrical Permit

04-16-2008

Activity Number: BE081663

Status: APPROVED

Issued By: BUILRODR

Site Address: 5800 N BAY RD MBCH
Parcel #: 32150030270

Applied: 04/16/2008
Approved: 04/16/2008
Completed:
To Expire: 10/13/2008

Valuation: $600.00

Applicant: NAVARRO ELECTRICAL SERVICES IN
MARK J GAINOR &W ELYSE S
12401 W OKEECHOBEE RD, #438
HIALEAH GARDENS, FL 33018
305-226-5545

Property Owner:

MARK J GAINOR TRUSTEE
7463 FISHER ISLAND DR 331090717

Description: B0802336//NEW ELECTRICAL FOR SPA & PONDPUMP.
Inspector Area: N Class Code: R3

DETAIL LIST

Electrical Fees		
Rough Wiring Outlets:	0	$0.00
Temporary Service:	0	$0.00
Subfeed for Construction/# of Service:		
Up to 100 Amps:	0	$0.00
101 to 200 Amps:	0	$0.00
201 to 400 Amps:	0	$0.00
401 to 600 Amps:	0	$0.00
601 to 800 Amps:	0	$0.00
Over 800 Amps:	0	$0.00
Service Repair/Meter Change:	0	$0.00
Other Fees:		$0.00
Other Fees Explanation:		
Equipment Outlets - Permanent Connection		
Equipment Outlet Ex Wall/Window AC:	0	$0.00
Ranges or Range Tops:	0	$0.00
Ovens:	0	$0.00
Water Heaters:	0	$0.00
Space Heaters:	0	$0.00
Washing Machines:	0	$0.00
Dryers:	0	$0.00
Fans - w/Fraction HP Motors:	0	$0.00
Garbage Disposals:	0	$0.00
Dishwashers:	0	$0.00

PAID
APR 16 2008
CITY OF MIAMI BEACH
BUILDING DEPARTMENT

B0802336

[ELECPRMT]

Activity Number: BE081663

Equipment Outlets - Permanent Connection - Cont.

Refrigerator:	0	$0.00
Deep Freezer:	0	$0.00
Wall/Window A.C.:	0	$0.00
A.C. - Not Wall/Window:	0	$0.00
Motors Up to 1 HP:	0	$0.00
Motors from 2 HP thru 10 HP:	0	$0.00
Motors Greater than 10 HP:	0	$0.00
Portable X-ray (DDS):	0	$0.00
Stationary X-ray (MD):	0	$0.00
Diathermic Units:	0	$0.00
Isolation Units:	0	$0.00

Antenna-TV-Intercom-Phones

Antenna, Outlets, etc.:	0	$0.00
Receiving Antennas:	0	$0.00
Detection Central System:	0	$0.00
Smoke Detectors:	0	$0.00
Heads or Target Area Speakers:	0	$0.00
Bell Alarm Station:	0	$0.00
Light Fixtures:	0	$0.00
Combination Light Fixtures:	0	$0.00
Streamed/Festoon Lights:	0	$0.00
Plugmold:	0	$0.00

Generator/Transformers

Up to 5 KVA/KW:	0	$0.00
6 to 10 KVA/KW:	0	$0.00
11 to 15 KVA/KW:	0	$0.00
16 to 20 KVA/KW:	0	$0.00
21 to 25 KVA/KW:	0	$0.00
25 KVA or KW:	0	$0.00
Same floor, largest above, additional units:	0	$0.00
Weld Machine Outlet to 25 Amps:	0	$0.00
Weld Machine Outlet Over 25 Amps:	0	$0.00

Special Purpose Outlets

Special Purpose Commercial Outlets:	0	$0.00
Painting, Bake Oven, Outlet:	0	$0.00
Sign Face:	0	$0.00
Sign Repair - Connect or Reconnect:	0	$0.00
Resident Pool/Spa Lighting:	0	$0.00
Combination Pool/Spa Lighting:	1	$100.00
Commercial/Multi-Family Pool:	0	$0.00
Commercial/Multi-Family Combo:	0	$0.00
Temporary Equipment Gr. for Carnival/Circus:	0	$0.00

Fire Safety

Floor Accept Test Alarm System:	$0.00

SFBC Compliance Fees

SFBC Compliance Fee:	$0.00
Training Fee:	$1.00
Extra Fee - Penalty:	$0.00
Sanitation Fee:	$20.00

Activity Number: BE081663

Additional Fees

1st Reinspection:	$0.00
Continued Reinspections:	$0.00
Change of Contractor:	$0.00
Permit Extension:	$0.00
Permit Card Replacements:	$0.00
Overtime Inspection Fees:	$0.00
Total of All Fees:	$121.00
Total of Payments:	$121.00
Balance Due:	$0.00

CITY OF MIAMI BEACH
BUILDING DEPARTMENT
1700 CONVENTION CENTER DR
MIAMI BEACH, FL 33139

305-673-7610 OFFICE

305-673-7857 FAX

WORK PERMIT APPLICATION

(PLEASE FILL OUT COMPLETELY)

BE081663

DATE: 04 / 15 / 08

CODE IN EFFECT: **FLORIDA BUILDING CODE**

IF SUBSIDIARY OR REVISION PROVIDE THE MASTER BUILDING PERMIT NUMBER HERE: B0802336

LOCATION OF IMPROVEMENTS

JOB ADDRESS:	5800 N Bay Road.
FOLIO NUMBER:	02-3215-003-0270
LOT:	
BLOCK:	
SUBDIVISION:	
P. B. PAGE:	
YEAR BUILT:	

CONTRACTOR INFORMATION

LICENSE #:	95E000314□
SS #	267-99-9520
COMPANY:	Navaro Electrical Services, Inc.
QUALIFIER:	Daniel E. Navarro
ADDRESS:	12401 W. Okeechobee Rd.
CITY/STATE/ZIP:	Hialeah Gardens, FL 33018
PHONE #:	(305) 226-5545

TYPE OF IMPROVEMENTS

DESCRIPTION OF WORK: New Electric For SPA + 100i Pond pumps

VALUE OF WORK: $ 6000.00 NO BLDGS.: _____ NO OF UNITS: _____ NO OF FLOORS: _____

SQUARE FEET: _____ LINEAL FEET: _____ POOL GALLONAGE: _____

( ) NEW CONSTRUCTION ON VACANT LAND	( ) FOUNDATION ONLY	( ) SHELL ONLY	( ) SIGNS
( ) ALTERATION INTERIOR	( ) ENCLOSURE	( ) ADDITION ATTACHED	( ) SWIMMING POOL/SPA
( ) ALTERATION EXTERIOR	( ) REPAIR	( ) ADDITION DETACHED	( ) HURRICANE SHUTTERS
( ) STRUCTURE RELOCATION	( ) REPAIR DUE TO FIRE	( ) AWNING/CANOPIES	( ) WINDOWS/SLIDING DOORS
	( ) DEMOLISH	( ) FENCING	

ROOFING

( ) (92) LOW SLOPE APPLICATION (GRAVEL, SMOOTH MODIFIED, SINGLE PLY)

( ) (95) SHINGLES (ASPHALT, FIBERGLASS)

( ) (96) SHINGLES (METAL ROOFS/WOOD SHINGLES & SHAKE)

( ) (0107) TILE ROOF

( ) LIGHT WEIGHT

SQUARE FEET _____

( ) SINGLE FAMILY

( ) MULTI-FAMILY

( ) COMMERCIAL

PERMIT TYPE

( ) BUILDING ( ) MECHANICAL

(X) ELECTRICAL ( ) PLUMBING

( ) FIRE

CHANGE TO EXISTING

( ) CHANGE CONTRACTOR ( ) PERMIT UPGRADE

( ) REVISIONS ( ) SUPPLEMENTAL

OWNER'S INFORMATION

NAME:	MARK J GAINOR &W ELYSE S □
ADDRESS:	5800 N. Bay Road.
CITY/STATE/ZIP:	Miami Beach, FL 33140
PHONE NUMBER:	

MORTGAGE LENDER'S INFORMATION

NAME:	
ADDRESS:	
CITY/STATE/ZIP:	
PHONE NUMBER:	

ARCHITECT'S INFORMATION

NAME:	
ADDRESS:	
CITY/STATE/ZIP:	
PHONE NUMBER:	
LICENSE #	

ENGINEER'S INFORMATION

NAME:	
ADDRESS:	
CITY/STATE/ZIP:	
PHONE NUMBER:	
LICENSE#	

B0806 53

CITY OF MIAMI BEACH
BUILDING DEPARTMENT
1700 CONVENTION CENTER DR
MIAMI BEACH, FL 33139

305-673-7610 OFFICE

305-673-7857 FAX

OCCUPANCY CLASSIFICATIONS

ASSEMBLY OCC. - GROUP **A1** GREATER THAN 1,000	_____	INSTITUTIONAL OCC. - GROUP **I** UNRESTRICTED	_____
ASSEMBLY OCC. - GROUP **A2** 50 TO 1,000	_____	INSTITUTIONAL OCC. - GROUP **I** RESTRICTED	_____
BUSINESS OCC. - GROUP **B**	_____	MERCANTILE OCC. - GROUP **M**	_____
DAY CARE OCC. - GROUP **D**	_____	RESIDENTIAL OCC. - GROUP **R1** HOTEL/MOTEL	_____
EDUCATIONAL OCC. - GROUP **E**	_____	RESIDENTIAL OCC. - GROUP **R2** APTS/CONDO	_____
FACTORY OCC. - GROUP **F**	_____	RESIDENTIAL OCC. - GROUP **R3** S/F	_____
HAZARDOUS OCC. - GROUP **H1** EXPLOSIVE	_____	RESIDENTIAL OCC. - GROUP **R4** CARE FACILITIES	_____
HAZARDOUS OCC. - GROUP **H2** BURNING	_____	STORAGE OCC. - GROUP **S1** ORDINARY HAZARD	_____
HAZARDOUS OCC. - GROUP **H3** PHYSICAL	_____	STORAGE OCC. - GROUP **S2** LOW HAZARD	_____
HAZARDOUS OCC. - GROUP **H4** HEALTH	_____		

Application is hereby made to obtain a permit to do work and installation as indicated. I certify that all work will be performed to meet the standards of all laws regulation construction in this jurisdiction. I understand that **SEPARATE PERMITS ARE REQUIRED** for ***Electrical, Mechanical, Plumbing, Signs, Swimming Pools and Spas, Windows and Sliding Glass Doors and Roofing, and Fire Protection Systems***. As per Florida Building Code 104.4.1.4;

NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies or federal agencies.

SIGNATURE OF QUALIFIER ONLY

STATE OF FLORIDA **COUNTY OF DADE**

Sworn to and subscribed before me this 16 **day of** April **20**07**, By:**

Jaziel Eduardo Navarro

PLEASE PRINT QUALIFIER'S NAME

( ) Personally Known to me. ( ) Procured Identification:

Type of Identification: DL# N160-165-62-373-0

( ) DID TAKE OATH. ( ) DID NOT TAKE OATH

Signature of Notary Public

Notary Public State of Florida
Joann Cesar
My Commission DD693851
Expires 07/10/2011

CITY OF MIAMI BEACH - BUILDING DEPARTMENT
1700 CONVENTION CENTER DR, 2ND FLOOR
MIAMI BEACH, FLORIDA 33139
(305) 673-7610 Office **(305) 673-7857 Fax**

ELECTRICAL FEE SHEET

ATTENTION APPLICANT: You are responsible for filling out this application correctly. If you have any questions concerning what category your work falls under, **PLEASE** see an electrical inspector. Any work commenced without a permit being issued will be subject to a double fee plus a $115.00 fine. The minimum fee for an electrical permit is $60.00. This minimum does not include other applicable surcharges. Under penalties of perjury, I declare that to the best of my knowledge, the facts stated in this document are true. I understand that perjury is a felony of the third degree.

(L. S.)

	ITEMS	UNIT NUMBER	PRICE EACH	SUB TOTAL
1.	Minimum Permit Fee including repair work per permit (Unless other minimum fee is specified):			
2.	This minimum does not apply to permits issued as supplementary to current outstanding permit for the same job.)		$60.00	
	*****ROUGH WIRING OUTLETS*****			
3.	Light, Receptacles and Switch			
4.	For 1 through 10 outlets		$28.00	
5.	For each additional after 10 outlets		$2.50	
	*****SERVICES*****			
6.	(The following fees shall be charged for each service and for each sub feed in new installation only. No charge will be made for sub feeds in existing installations.) Each service shall include one (1) sub feed.			
7.	Temporary for construction, test, etc.		$72.00	
8.	Sub feeds			
9.	100 amps and under		$9.00	
10.	101 amps to 200 amps		$12.00	
11.	201 amps to 400 amps		$14.00	
12.	401 amps to 600 amps		$15.00	
13.	601 amps to 800 amps		$21.00	
14.	For each additional 100 amps over 800 amps		$8.00	
15.	Service repairs and/or meter change		$75.00	
	*****SWITCHBOARDS*****			
16.	(Same as Services shown above by amps)			
17.	100 amps and under		$9.00	
18.	101 amps to 200 amps		$12.00	
19.	201 amps to 400 amps		$14.00	
20.	401 amps to 600 amps		$15.00	
21.	601 amps to 800 amps		$21.00	
22.	For each additional 100 amps over 800 amps		$8.00	

	ITEMS	UNIT NUMBER	PRICE EACH	SUB TOTAL
	EQUIPMENT OUTLETS OR PERMANENT CONNECTIONS			
23.	For each range outlet		$12.00	
24.	For each range top outlet		$12.00	
25.	For each oven outlet		$12.00	
26.	For each water heater outlet		$12.00	
27.	For each space heater outlet		$12.00	
28.	For each washing machine outlet		$12.00	
29.	For each dryer outlet		$12.00	
30.	For each fan outlet (with HP motor)		$12.00	
31.	For each garbage disposal outlet		$12.00	
32.	For each dishwasher outlet		$12.00	
33.	For each deep freezer outlet		$12.00	
34.	For each refrigerator outlet		$12.00	
35.	For each air conditioning outlet (window or through wall units)		$15.00	
36.	For each ton for central units outlet (Minimum $13.00)		$9.00	

	ITEMS	UNIT NUMBER	PRICE EACH	SUB TOTAL
	FOR MOTORS			
37.	Each up to 1 horsepower		$12.00	
38.	From 2 horsepower to 10 horsepower		$58.00	
39.	Each horsepower over 10 horsepower		$3.50	
	MACHINE OUTLETS OR PERMANENT CONNECTIONS			
40.	For portable dentist x-ray		$30.00	
41.	For stationary doctor x-ray		$40.00	
42.	For diathermic		$30.00	
43.	For isolation units		$58.00	
	GENERATORS AND TRANSFORMER, COMMERCIAL HEATING EQUIPMENT			
44.	Each generator or transformer up to			
45.	**5 KVA or KW**		$7.50	
46.	Each generator or transformer over			
47.	**6 KVA or KW through 10 KVA or KW**		$15.00	
48.	Each generator transformer over			
49.	**11 KVA through 15 KVA or KW**		$19.00	
50.	Each generator or transformer over			
51.	**20 KVA or KW through 20 KVA or KW**		$26.00	
52.	Each generator or transformer over			
53.	**21 KVA or KW through 25 KVA or KW**		$40.00	
54.	Each generator or transformer over			
55.	**26 KVA or KW through 50 KVA or KW**		$75.00	
56.	Each generator or transformer over		$0.85	
57.	**50 KVA or KW, each additional KVA or KW**		$1.75	

	ITEMS	UNIT NUMBER	PRICE EACH	SUB TOTAL
	*****WELDING MACHINE OUTLETS*****			
58.	For up to 25 amps		$9.00	
59.	For over 25 amps, each additional 25 amps or fractional part		$9.00	
	*****SPECIAL PURPOSE OUTLETS (COMMERCIAL)*****			
60.	For each popcorn outlet		$11.00	
61.	For each doughnut outlet		$11.00	
62.	For each drink machine outlet		$11.00	
63.	For each coin machine outlet		$11.00	
64.	For each toaster outlet		$11.00	
65.	For each coffee urn outlet		$11.00	
66.	For each deep fryer outlet		$11.00	
67.	For each telephone booth outlet		$11.00	
68.	For each painting bake oven		$46.00	
	*****SIGNS*****			
69.	Per each square foot of face of sign		$3.00	
70.	For new strips:			
71.	For 100 lineal feet		$58.00	
72.	Each additional 100 lineal feet or fractional part		$34.00	
73.	For each sign repair or reconnection		$58.00	
	*****FIXTURES*****			
74.	For lights 1 through 10 sockets		$10.50	
75.	For 1 through 10 florescent sockets		$10.50	
76.	For each additional socket or tube		$1.75	
77.	For each light pole (fixture additional)		$7.00	
	*****COMBINATIONS*****			
78.	For light fixtures and outlets up through 10 (1 inspection)		$28.00	
	*****STREAMERS OR FESTOON LIGHTS*****			
79.	For the first 10 lights or less		$8.00	
80.	For each additional 10 or less		$7.00	
	*****WIRE MOLD*****			
81.	For the first 10 lights or less		$28.00	
82.	For each additional 5 lineal feet		$5.00	
	*****SWIMMING POOL LIGHTING*****			
83.	For residential pool or spa	1	$90.00	
84.	For combination pool or spa		$100.00	
85.	For commercial or multi-family pool or spa		$200.00	
86.	For commercial or multi-family combination pool or spa		$275.00	

	ITEMS	UNIT NUMBER	PRICE EACH	SUB TOTAL
	TEMPORARY WORK ON CIRCUSES/CARNIVALS			
87.	Per show		$300.00	
	FIRE DETECTION SYSTEM OR REPAIRS			
88.	For installation for central system		$30.00	
89.	For each smoke detectors		$3.00	
90.	For each head or target area, with product or wire with similar character		$3.00	
91.	For each speaker		$3.00	
92.	For each strobe light		$3.00	
93.	For each bell alarm station		$3.00	
94.	For each proximity station		$3.00	
95.	For semi-annual reinspection fee		$30.00	
	MASTER TELEVISION, INTERCOM, BURGLAR ALARM, TELEPHONE AND RADIO			
96.	For antenna master control		$40.00	
97.	For television and radio antenna devices		$28.00	
98.	For all outlets		$28.00	
99.	For suppressors		$28.00	
100.	For splitters		$28.00	
101.	For lighting arresters		$28.00	
102.	For receivers		$28.00	
103.	For input devices		$28.00	
104.	For audio amplifiers		$28.00	
105.	For ground connections		$28.00	
106.	For cable telephone		$28.00	
107.	For computer outlets		$28.00	
108.	For other low voltage outlets		$28.00	
109.	For 1 through 5 devices		$28.00	
110.	For each additional device		$1.50	
111.	For fire alarm and/or fire test pump per hour			
	Minimum		$115.00	
	DADE COUNTY CODE COMPLIANCE FEE			
114.	For every $1,000.00 of job valuation		$0.60	
	MIAMI BEACH TRAINING FEE			
115.	For every $1,000.00 of job valuation or fractional part thereof		$1.00	
	SANITATION FEE			
116.	For every $100.00 of estimated cost or fractional part		$0.30	
	Minimum of $20 maximum of $1,500.00			
	TOTAL ELECTRICAL PERMIT FEE			

GENERAL NOTES

1. THESE DOCUMENTS, AS INSTRUMENTS OF SERVICE, ARE THE PROPERTY OF 3DESIGN, Inc. AND MAY NOT BE USED OR REPRODUCED IN ANY MANNER WITHOUT EXPRESSED WRITTEN CONSENT
2. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE GENERAL CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS REQUIRED TO COMPLETE ALL BUILDING SYSTEMS AND PROVIDE ALL NECESSARY APPURTENANCES FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER WITH QUALITY CRAFTMANSHIP WITHOUT INCREASING THE CONTRACT SUM OR CONTRACT COMPLETION DATE.
3. ALL WORK DESCRIBED BY THSE DOCUMENTS MUST BE PERFORMED BY CONSTRUCTION PROFESSIONALS LICENCED & INSURED IN THE STATE OF FLORIDA (F.B.C. REQUIRED). ALL WORK SHALL BE PERFORMED IN ACCORDANCE W/ THE NATIONAL ELECTRIC CODE AND F.B.C.
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCING THE WORK. IF THERE ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO COMMENCING THE WORK FOR CLEAR INSTRUCTION.
5. DO NOT SCALE THE DRAWINGS. REFER TO FIGURED DIMENSIONS.
6. THE CONTRACTOR IS TO ACQUIRE ALL REQUIRED PERMITS FOR THE DEMOLITION, CONSTRUCTION, FINISHING, AND OCCUPANCY OF THE PROJECT. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE F.B.C., LATEST EDITION.
7. ALL WORK DONE UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR SHALL BE IN A NEAT AND WORKMAN-LIKE MANNER IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL GOVERNING AGENCIES HAVING JURISDICTION.
8. THE GENERAL CONTRACTOR IS TO PROVIDE, LOCATE AND BUILD INTO THE WORK ALL SUPPLEMENTARY MATERIALS (INSERTS, ANCHORS, ANGLES, PLATES, OPENINGS, SLEEVES, HANGERS, SLAB DEPRESSIONS, PITCHES, ETC.) AS REQUIRED TO PROPERLY INSTALL, SUPPORT, BRACE, AND SHORE ALL BUILDING COMPONENTS WITHIN THE SCOPE OF THE PROJECT.
9. THE GENERAL CONTRACTOR SHALL REPAIR ALL DAMAGES TO THE EXISTING BUILDING DURING CONSTRUCTION RESULTING FROM SUCH LACK OF CARE AND DUE DILIGENCE AND MAY NOT CLAIM MONETARY DAMAGES OR TIME DELAYS AGAINST THE CONTRACT SUM OR CONTRACT COMPLETION DATE.
10. THE GENERAL CONTRACTOR SHALL COORDINATE AND SCHEDULE THE WORK OF ALL TRADES TO INSURE THAT THE PROJECT IS COMPLETED BY THE CONTRACT COMPLETION DATE.
11. PRIOR TO COMMENCING WORK, THE GENERAL CONTRACTOR SHALL SITE VERIFY THE LOCATION OF ALL EQUIPMENT TO BE REMOVED/RELOCATED. REMOVALS SHALL BE COORDINATED WITH THE OWNER. IF SO DIRECTED, THE G.C. MAY INCLUDE ANY ADDITIONAL COSTS TO THE BID.
12. THE GENERAL CONTRACTOR SHALL PROVIDE AN ONSITE DUMPSTER IN A LOCATION COORDINATED WITH THE OWNER FOR THE DISPOSAL OF REMOVED MATERIAL/CONSTRUCTION DEBRIS. THE DUMPSTER SHALL BE EMPTIED AT APPROPRIATE INTERVALS TO PREVENT OVERFLOW AND UNSIGHTLY CONDITIONS.
13. IT IS THE INTENT OF 3DESIGN, Inc. THAT THIS WORK BE IN CONFORMANCE WITH ALL REQUIREMENTS OF THE BUILDING AUTHORITIES HAVING JURISDICTION OVER THIS TYPE OF CONSTRUCTION AND OCCUPANCY. THE G.C. SHALL NOTIFY THE ARCHITECT/ENGINEERS OF RECORD IMMEDIATELY IF ANY DISCREPANCIES ARE ENCOUNTERED BETWEEN THE DRAWINGS AND THESE REQUIREMENTS. ANY DISCREPANCIES WILL BE RESOLVED BY ARCHITECT / ENGINEER OF RECORD PRIOR TO PROCEEDING WITH THE WORK.
14. THE GENERAL CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH RED-LINE AS-BUILT DRAWINGS FOR ALL FIELD CHANGES/ADDITIONS TO THE WORK INCLUDED IN THE WORK.
15. THE GENERAL CONTRACTOR SHALL PROVIDE AN ITEMIZED COST BREAKDOWN OF ALL ITEMS AND PHASES OF CONSTRUCTION AT THE TIME OF BIDDING.
16. 3DESIGN, Inc. IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES, PROCEDURES, PRECAUTIONS, OR PROGRAMS RELATED TO THIS PROJECT'S CONSTRUCTION.
17. ALL WORK IS TO BE PLUM, LINE, SQUARE, AND ADEQUATELY SUPPORTED. FILL ALL VOIDS BETWEEN COMPONENTS. ALL ITEMS THAT DO NOT MEET 3DESIGN, Inc. SATISFACTION AS TO GOOD TRADE PRACTICES AND QUALITY CRAFTMANSHIP WILL BE REDONE AT THE G.C.'S EXPENSE.
18. THE GENERAL CONTRACTOR IS TO MAINTAIN A SAFE SITE, CLEAR OF DEBRIS AT ALL TIMES.
19. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE TO GUARANTEE THEIR WORK FOR A MINIMUM PERIOD OF ONE YEAR IN WRITING SUBMITTED WITH THE BID.
20. ALL DETAILS AND SECTIONS SHOWN ON THESE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUITED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE IN THE WORK EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN. IT IS THE G.C.'S RESPONSIBILITY TO FORSEE ADDITIONAL CONDITIONS PRIOR TO COMMENCING THE WORK AND NOTIFY THE ARCHITECT IMMEDIATELY.
21. ALL ASSEMBLIES REFERRED TO AS FIRE-RATED SHALL BE A MINIMUM OF ONE HOUR UNLESS OTHERWISE INDICATED. ALL PENETRATIONS THROUGH ANY RATED ASSEMBLY SHALL BE PROVIDED W/ APPROVED PENETRATION RATED DEVICES.
22. THE GENERAL CONTRACTOR SHALL PROVIDE CUSTOM AND MULTI-COLOR PAINT SELECTIONS FOR OWNERS APPROVAL.
23. ALL HARDWARE, LIGHTING & BATHROOM FIXTURES AND MISC. SPECIFICATIONS NOT SPECIFICALLY CALLED OUT ON THE DRAWINGS SHALL BE PROVIDED BY THE OWNER.
24. THE GENERAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR TRUSSES, STORM SHUTTERS, REINFORCING STEEL, WINDOWS, DOORS, CAST CONCRETE, ORNAMENTAL IRON, STEEL CONNECTORS, ORNAMENTAL WOOD, ETC. TO THE ARCHITECT FOR REVIEW PRIOR TO COMMENCING THE WORK.
25. THE GENERAL CONTRACTOR SHALL PROVIDE A TELEPHONE AND TELEPHONE LINE AT THE JOB SITE. THE G.C. IS RESPONSIBLE FOR IT'S USE.

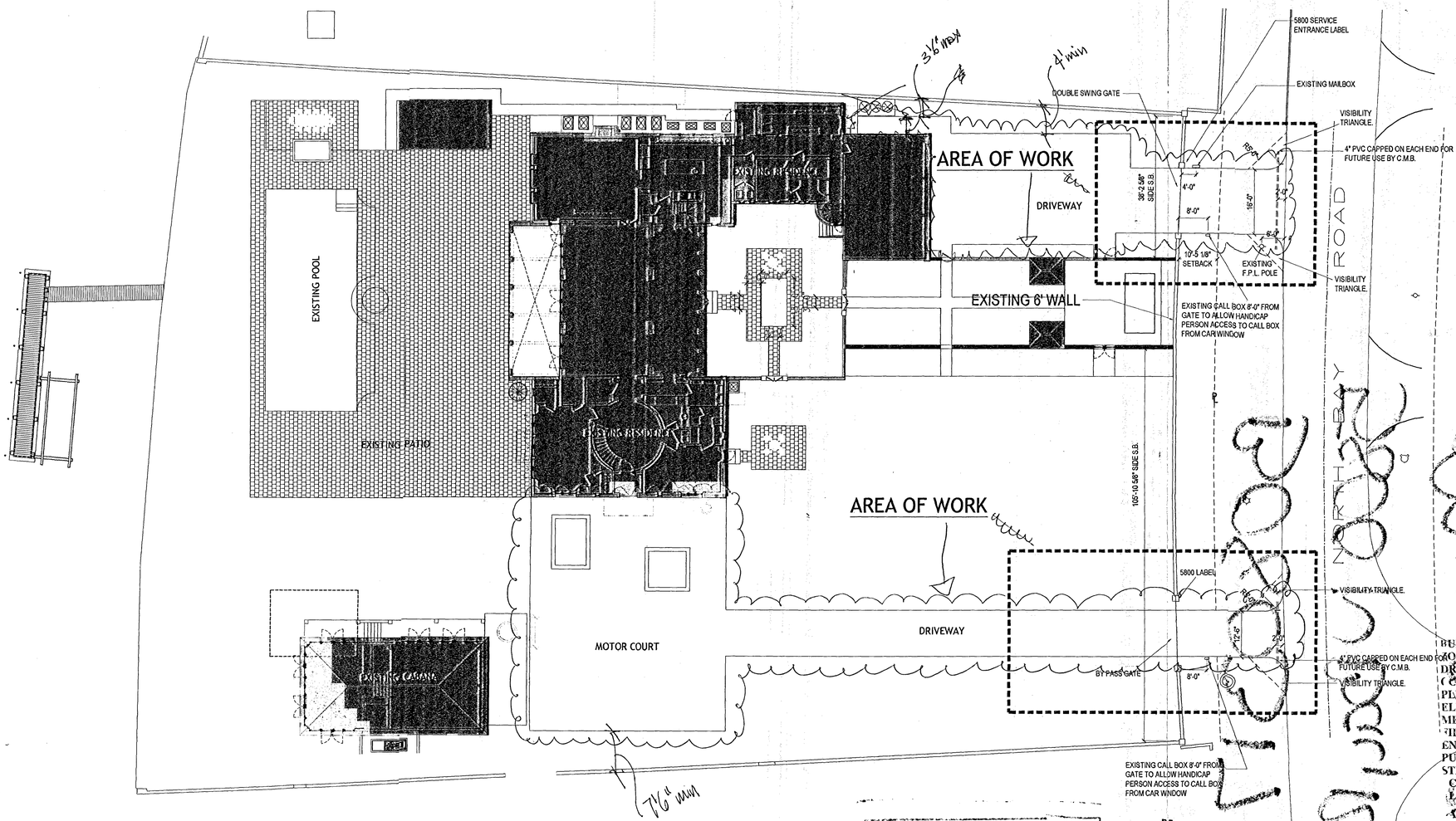
SCOPE OF WORK:

NEW DRIVEWAYS
NEW CALL BOXES

ZONING DATA
LEGAL DESCRIPTION:
LOTS 33 AND 34, BLOCK 1A, OF "LAGORCE-GOLF SUBDIVISION", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 14, AT PAGE 43, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

SITE PLAN INFORMATION:

ZONING DESIGNATION:



SITE PLAN
SCALE 1/16" = 1'-0

48 HOURS PRIOR TO EXCAVAING CONTRACTOR SHALL CALL FOR LOCATION OF UNDERGROUND UTILITIES
SUNSHINE ONE-CALL 1-800-432-4770
CITY OF MIAMI BEACH 305-673-7080

PUBLIC WORKS
PLAN REVIEW NOTICE
Phone 305-673-7080 Fax 305-673-7028

THIS PLAN REVIEW CONSTITUTES APPROVAL FOR OBTAINING BUILDING PERMITS ONLY.

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

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

Approved Reviewed by: GNL Date: 05-09-2008

NOTE: NOTHING SHALL BE PERMITTED WITHIN VISIBILITY TRIANGLE

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 governmental entities such as water management districts, state agencies or federal agencies.
The City of Miami Beach assumes no responsibility for accuracy of or results from these plans which are approved subject to compliance with all Federal, State, and Local Laws, Rules, and Regulations.

B0803760

CITY OF MIAMI BEACH
APPROVED FOR PERMIT
FOLLOWING:

BUILDING:
ZONING:
DRB/HPB:
CONCURRENCY:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
PUBLIC WORKS: GNL 05-09-2008
STRUCTURAL:
ACCESSIBILITY:
ELEVATOR:

As per Florida Building Code Section 104.5
REVIEWED FOR CODE COMPLIANCE

THESE PLANS ARE FOR BUILDING DEPARTMENT REVIEW ONLY. THEY ARE NOT TO BE CONSTRUED AS CONSTRUCTION DOCUMENTS UNTIL ALL BUILDING DEPARTMENT APPROVALS ARE OBTAINED.

DRAWN BY:

REVISIONS:

3DESIGN INC
ANTHONY LEON
AA0005752
ARCHITECTURE
4500 BISCAYNE BLVD. SUITE#604 MIAMI, FL 33137 T.305.438.9377 F.305.438.9379

SEAL

DRIVEWAY PERMIT FOR THE GAINOR RESIDENCE ON 5800 NORTH BAY ROAD MIAMI BEACH, FL 33141

A1.0

N:\projects\Gainor\Sheets\Driveway permit\A1.0.DWG, 5/5/2008 1:47:54 PM

CITY OF MIAMI BEACH
Building Department
1700 Convention Ctr Drive, 2nd Floor
Miami Beach, Florida 33139

Inspections: (305) 673-7370 **Office: (305) 673-7610**

Bldg Small Work Permit

05-09-2008

Activity Number: B0803178

Status: APPROVED
Site Address: 5800 N BAY RD MBCH
Parcel #: 32150030270

Issued By: BUILSANK
Applied: 05/08/2008
Approved: 05/09/2008
Completed:
To Expire: 11/05/2008

Valuation: $30,800.00

Applicant: BLACK, JOHN WILLIAM JR
P O BOX 522817
MARATHON, FL 33052
743-000-3537

Property Owner: MARK J GAINOR &W ELYSE S
MARK J GAINOR TRUSTEE
7463 FISHER ISLAND DR 331090717

CONDTION(s):

Description: **NEW DRIVEWAY WITH PAVERS**
Inspector Area: C Class Code: R3

==========

DETAIL LIST

Alteration/Repair Fees		
Alteration Bulding/Structures - Per Costs:	$0.00	$0.00
Awning, Canopy, Patio Cover - Per Costs:	$0.00	$0.00
Area Under Roof - RADON - Per Sq.Ft.:	0	$0.00
Walk-Thru - Per Valuation:	$0.00	$31.00
Repairs to Building/Structure - Per Costs:	$0.00	$0.00
Roofing or Re-roofing - Per Sq.Ft.:	0	$0.00
Window/Doors - Per # of:	0	$0.00
Signs 36-4 (Writer/Erect) - Per Sq.Ft.:	0	$0.00
Fence and/or Wall - Per Linear Feet:	0	$0.00
Partial Demo (Struct, Sign, Wall) - Per Costs:	$0.00	$0.00
Swimming Pool - Per Gallon:	0	$0.00
Painting - Per Costs:	$0.00	$0.00
Sandblasting - Per Costs:	$0.00	$0.00
Paving - Per Sq.Ft.:	7000	$184.00
Concrete Slab - No Paving - Per Sq.Ft.:	0	$0.00
Trees - Per # of:	0	
Hedges - Per Linear Feet:	0	
Groundcover - Per Sq.Ft.:	0	
Landscaping Fee:		$0.00
Other Fees:		$0.00
Penalty Fee (If Applicable):		$0.00

[BSBLDPRM]

Activity Number: B0803178

Fire Safety Fees		
New Building or Addition - Per Sq.Ft.:	0	$0.00
Storage/Industrial Bldg - E & F Occup - Per Sq.Ft.:	0	$0.00
Greenhouse/Argiculture on Premises - Per Sq.Ft.:	0	$0.00
Screen Enclsoure/Trail on Premises - Per Sq.Ft.:	0	$0.00
SS Underground Tanks/App Shelter - Per #:	0	$0.00
Construction not shown Above - Per Costs:	$0.00	$0.00
Alt/Repair Building/Structure - Per Costs:	$0.00	$0.00
Marine Structure Fee		
Dock Area - Per Sq.Ft.:	0	$0.00
Seawall - Per Linear Feet:	0	$0.00
Boat Lifts, Davits, Hoist - Per # of:	0	$0.00
Batter, Mooring, Dock Piles - Per # of:	0	$0.00
Marine Structure Alt/Repair - Per Costs:	$0.00	$0.00
SFBC Compliance Surcharge		
New Const/Add - Res/Mult-Fam/Comm - Per Sq.Ft.:	0	$0.00
New Const/Add - Strg/Ind/Msc - Per Sq.Ft.:	0	$0.00
Cost for Other Construction:		$0.00
Training Fee		
Training Fee:		$31.00
Sanitation Fee:		$92.40
Additional Fees		
1st Reinspection:		$0.00
Continued Reinspections - Per # of:	0	$0.00
Building Joint Inspections - Per # of:	0	$0.00
Change of Contractor Per # of:	0	$0.00
Permit Extension - Per # of:	0	$0.00
Residential Card:		
Commercial Card:		
Permit Card Replacements:		$0.00
Lost Plan Fee - SF:		$0.00
Lost Plan Fee - Other:		$0.00
Overtime Inspection Fees:		$0.00
Total of All Fees:		$357.00
Total of Payments:		$357.00
Balance Due:		$0.00

CITY OF MIAMI BEACH
Miami Beach, Florida 33139

RECEIPT OF PAYMENT

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

05-08-2008

Receipt: R010214915

Activity Number: **B0803178**
Status: **APPLIED**

Date Applied: **05/08/2008** Date Issued:
Date Completed: Date Expired:

Entered By: **BUILSANK**

Site Address: **5800 N BAY RD MBCH**
Parcel #: **32150030270**

Balance Due: **$0.00**
Valuation: **$30,800.00**

Applicant: **BLACK, JOHN WILLIAM JR**
P O BOX 522817
MARATHON, FL 33052
743-000-3537

Owner: **MARK J GAINOR &W ELYSE S**
MARK J GAINOR TRUSTEE
7463 FISHER ISLAND DR 331090717

Description: NEW DRIVEWAY WITH PAVERS

Payments made for this receipt:

Type	Method	Description	Amount
Payment	Credit C	VISA 4635760009469507	357.00

Payment Made: 05/08/2008 11:11 AM Accepted By: KS

Total Payment: 357.00 Payee: OUTDOOR SURFACES, INC/ MARIA JOHANNNA ROCHA

PAID
MAY 08 2008
CITY OF MIAMI BEACH
BUILDING DEPARTMENT

Current Payment Made to the Following Items:

Account Code	Description	Amount
011800032210	Building Permits	184.00
011800032263	Zoning	31.00
435800036329	Sanitation Impact Fees	92.40
601700022921	SFBC Compliance Fee	18.60
601700022925	Training	31.00

Account Summary for Fees and Payments:

Item#	Description	Account Code	Tot Fee	Paid	Prev. Pmts	Cur. Pmts
10	Building Permits	0118000322100	184.00	184.00	.00	184.00
270	Zoning	0118000322630	31.00	31.00	.00	31.00
420	SFBC Compliance Fee	6017000229217	18.60	18.60	.00	18.60
430	Training	6017000229253	31.00	31.00	.00	31.00
440	Sanitation Impact Fe	4358000363293	92.40	92.40	.00	92.40

MIAMIBEACH

Open Violation on Property #BV08000560

BUILDING DEPARTMENT
1700 Convention Center Drive
Miami Beach, FL 33139
Office: 305-673-7610 Fax: 305-673-7857

WORK PERMIT APPLICATION

FLORIDA BUILDING CODE IN EFFECT

DATE 5/6/8 PERMIT # B0803118 $357.00

If subsidiary or revision, provide the Master building permit number here B: _____

IS THIS PERMIT ASSOCIATED WITH A VIOLATION? If so; BV# _____

For DEMOLITION provide the year the structure was built _____ **Historic District** ☐Yes ☑No

Type of Property ☑Single Family ☐Commercial ☐Multi-Family/Condo

TYPE OF IMPROVEMENT: ☑Building ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ REVISION

Describe New Driveways with Pavers

Job Value $ 30,800 Square Feet 7000 Linear Feet _____ Pool Gallonage _____ No. of units _____

Job Address 5800 N Bay Rd

Folio # 02 3215 003 0270 Unit # _____

City Miami Beach State FL Zip _____ Phone 786 7950847

Owner/Owner Builder MARK GAINOR Drivers License No. _____

Address 5800 N Bay Rd

City Miami Beach State FL Zip _____ Phone _____

Fee Simple Titleholder's Name (if other than owner) _____

Address _____

City _____ State _____ Zip _____ Phone _____

Contractor John W Black License No. CGC025730

Address 16521 SW 89th Ter.

City Miami State FL Zip 33033 Phone 305 538 6894

Cell# 305 785 3300 Fax # 305 673 6649

☐**Architect** 3D Design inc Anthony Leon License No. AR0016752

Address _____

City _____ State _____ Zip _____ Phone _____

☐**Engineer** _____ License No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

PLEASE COMPLETE SHADED AREAS

BUILDING WORK PERMIT APPLICATIONS ARE AVAILABLE ON THE MIAMI BEACH WEBSITE AT :WWW.MIAMIBEACHFL.GOV

Bonding company Name__________

Address__________

City__________ State______ Zip______ Phone__________

Mortgage Lender's Name__________

Address__________

City__________ State______ Zip______ Phone__________

This application is hereby made to obtain a permit to do the work and installations as indicated. I certify that all work will be performed to meet the standards of all laws and construction regulations in this jurisdiction. I understand that **SEPARATE PERMITS** are required for ***Electrical, Mechanical, Plumbing, Signs, Swimming Pools, Spas, Windows, Sliding Glass Doors and Roofing***.

OWNER'S AFFIDAVIT: I certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws regulating construction and Zoning.

NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies or federal agencies.

*** If the contractor is going to be hired by the tenant, check here. ☐**

Owner or Agent	Tenant	Qualifier
[signature] Signature of Owner or Agent	Signature of Tenant	[signature] Signature of Qualifier
Mark Gaynon Printed Name of Owner or Agent	Printed Name of Tenant	John W Black Printed Name of Qualifier
Date 5/5/2008	Date______	Date 11/16/07
[signature] Signature of Notary Public	Signature of Notary Public	[signature] Signature of Notary Public
Identification______	Identification______	Identification______
Sworn to and subscribed before me this ___ day of ______ 20___. (Seal) NOTARY PUBLIC-STATE OF FLORIDA Sinclair P. Cerber Commission #DD454599 Expires: JULY 25, 2009 BONDED THRU ATLANTIC BONDING CO., INC.	Sworn to and subscribed before me this ____ day of __________ 20____. (Seal)	Sworn to and subscribed before me this 16 day of ___ 2007. (Seal) NOTARY PUBLIC-STATE OF FLORIDA Sinclair P. Cerber Commission #DD454599 Expires: JULY 25, 2009 BONDED THRU ATLANTIC BONDING CO., INC.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT. NOTICE OF COMMENCEMENT SHOULD BE FILED AT: 22 NW 1ST STREET, MIAMI, FL

STATE OF FLORIDA **COUNTY OF DADE**

MARK GAYNON

Print Owner's Name

[signature] Owner's Signature

Sworn to and subscribed before me this 5 day of May 20 08, by:__________

(✓) Personally Known ~~( ) Produced~~ Identification - Type of Identification__________

[signature]

Signature of Notary Public (Seal)

NOTARY PUBLIC-STATE OF FLORIDA
Sinclair P. Cerber
Commission # DD454599
Expires: JULY 25, 2009
BONDED THRU ATLANTIC BONDING CO., INC.

Application Approved By:____________________

Permit Clerk

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

Bldg Small Work Permit

11-25-2008

Activity Number: B0900838

Status: APPROVED Issued By: BUILARAG

Site Address: 5800 N BAY RD MBCH
Parcel #: 32150030270

Applied: 11/25/2008
Approved: 11/25/2008
Completed:
To Expire: 05/24/2009

Valuation: $35,000.00

Applicant: FRAME-PRO CONSTRUCTION CORP
17031 SW 150 CT
MIAMI FL 33187
786-346-0932

Property Owner: MARK J GAINOR &W ELYSE S
MARK J GAINOR TRUSTEE
7463 FISHER ISLAND DR 331090717

Description: TO RENEW B0801373- NEW 7' GARDEN WALL 100 LFT.
Inspector Area: C Class Code: R3

DETAIL LIST

Alteration/Repair Fees		
Alteration Bulding/Structures - Per Costs:	$0.00	$0.00
Awning, Canopy, Patio Cover - Per Costs:	$0.00	$0.00
Area Under Roof - RADON - Per Sq.Ft.:	0	$0.00
Walk-Thru - Per Valuation:	$0.00	$35.00
Repairs to Building/Structure - Per Costs:	$0.00	$0.00
Roofing or Re-roofing - Per Sq.Ft.:	0	$0.00
Window/Doors - Per # of:	0	$0.00
Signs 36-4 (Writer/Erect) - Per Sq.Ft.:	0	$0.00
Fence and/or Wall - Per Linear Feet:	100	$65.00
Partial Demo (Struct, Sign, Wall) - Per Costs:	$0.00	$0.00
Swimming Pool - Per Gallon:	0	$0.00
Painting - Per Costs:	$0.00	$0.00
Sandblasting - Per Costs:	$0.00	$0.00
Paving - Per Sq.Ft.:	0	$0.00
Concrete Slab - No Paving - Per Sq.Ft.:		$0.00
Trees - Per # of:		
Hedges - Per Linear Feet:		
Groundcover - Per Sq.Ft.:	0	
Landscaping Fee:		$0.00
Other Fees:		$0.00
Penalty Fee (If Applicable):		$0.00

PAID
NOV 25 2008
CITY OF MIAMI BEACH
BUILDING DEPARTMENT

[BSBLDPRM]

Value – 35,000 @ 100

B0900838

MIAMIBEACH

PRJ0900138

Building Department
1700 Convention Center Dr., 2nd Fl
Miami Beach, Fl 33139
(305) 673-7857 Fax
(305) 673-7610 Office

REQUEST FOR RENEWAL OF BUILDING PERMIT

FO-3215-003-0270

Date Requested 11-25-08

Permit Number B0801373 **Jobsite Address** 5800 N Bay Rd

Permit Holder (Contractor/Owner Builder) Framepro Construction

Telephone Number 786 346 0932

Contractors License Number CGC1507139 **Qualifiers Name** Danilo Ramirez

(Signature of Qualifier, Owner-Builder)

STATE OF FLORIDA **COUNTY DADE**

Sworn to and subscribed before me this 24th day of Nov 20 08 by:

Danilo Ramirez

Printed Name of Signer

[ ] Personally known to me; [X] Produced Identification

Type of Identification: FDL# R562-160-70-310-7

[ ] Did take oath [X] Did not take oath

Nisca Cesar

Signature of Notary Public

Notary Public State of Florida
Nisca Cesar
My Commission DD520044
Expires 02/19/2010

NOTARY PUBLIC STATE OF FLORIDA SEAL

FOR OFFICE USE ONLY

Approved By: _____ Permit Expiration Date: _____

Permit Issued Date: _____ Project/Master Permit Number: _____

Last Inspection Date: _____

Date Issued: _____ Fee Paid $ _____

Revised 06/08

B0901380 UPLIFT TEST

CMB BUILDING DEPT

F.I.E.
FLORIDA INTERNATIONAL
ENGINEERING & TESTING LAB
INSIGHT • INNOVATION • INTEGRATION

16701 Southwest 117th Avenue • Miami, Florida 33177
Phone: (305) 378-1991 • Fax: (305) 378-1997

No 1784

ON-SITE CONCENTRATED UPLIFT LOAD TESTING OF ROOF TILE IN
FULL ACCORDANCE WITH MIAMI-DADE BUILDING CODE COMPLIANCE PROTOCOL TAS 106

SITE SPECIFIC INFORMATION

Owner's Name: MARK J GAINOR & W ELYSE S. Permit # B0901380
Job Address: 5800 N. BAY RD., MIAMI BEACH, FL.
Roofing Contractor: ISAACS ROOFING
Type of Tile: DOUBLE ROLL CONCRETE - FOAM SET Date Installed 1-15-09
Approximate Roof Height: 10 feet SLOPE: 5 12
Type of Access to Roof: ____ Scaffolds ____ Ladder ____ Other
Approximate Square Footage of Roof: 600 ft² (GAZEBO ONLY)
Required Testing Force: 35 lbs. Testing Equipment: F.G.E. 100X, Shimpo Instrument
Date: 1-21-09

TEST RESULTS
P = PASS, F = FAIL

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

IN ACCORDANCE WITH THE CRITERIA OF PROTOCOL TAS 106, THIS ROOF ASSEMBLY HAS PASSED THE STATIC UPLIFT QUALITY CONTROL TEST.

RESPECTFULLY SUBMITTED BY:

VMB V— 1-21-09

Vinayagar M. Balakrishnan V. P. E. Lic# 63107

Miami-Dade Lab Certification # 07-0612.11
State of FL Certificate of Authorization # 27273

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

Bldg Small Work Permit

01-15-2009

Activity Number: B0901380

Status: APPROVED Issued By: BUILCESJ

Site Address: 5800 N BAY RD MBCH
Parcel #: 32150030270

Applied: 01/14/2009
Approved: 01/15/2009
Completed:
To Expire: 07/14/2009

Valuation: $8,000.00

Applicant: ISAACS ROOFING & INSULATION CORP
7345 SW 152ND ST
MIAMI, FL 33157
(305) 234-5234

Property Owner: MARK J GAINOR &W ELYSE S
MARK J GAINOR TRUSTEE
7463 FISHER ISLAND DR 331090717

Description: REROOF BARREL TO BARREL.
Inspector Area: C Class Code: R3

PAID
JAN 15 2009
CITY OF MIAMI BEACH
BUILDING DEPARTMENT

DETAIL LIST

Alteration/Repair Fees		
Alteration Bulding/Structures - Per Costs:	$0.00	$0.00
Awning, Canopy, Patio Cover - Per Costs:	$0.00	$0.00
Area Under Roof - RADON - Per Sq.Ft.:	0	$0.00
Walk-Thru - Per Valuation:	$0.00	$15.00
Repairs to Building/Structure - Per Costs:	$0.00	$0.00
Roofing or Re-roofing - Per Sq.Ft.:	1050	$75.00
Window/Doors - Per # of:	0	$0.00
Signs 36-4 (Writer/Erect) - Per Sq.Ft.:	0	$0.00
Fence and/or Wall - Per Linear Feet:	0	$0.00
Partial Demo (Struct, Sign, Wall) - Per Costs:	$0.00	$0.00
Swimming Pool - Per Gallon:	0	$0.00
Painting - Per Costs:	$0.00	$0.00
Sandblasting - Per Costs:	$0.00	$0.00
Paving - Per Sq.Ft.:	0	$0.00
Concrete Slab - No Paving - Per Sq.Ft.:	0	$0.00
Trees - Per # of:	0	
Hedges - Per Linear Feet:	0	
Groundcover - Per Sq.Ft.:	0	
Landscaping Fee:		$0.00
Other Fees:		$0.00
Penalty Fee (If Applicable):		$0.00

[BSBLDPRM]

Activity Number: B0901380

Fire Safety Fees		
New Building or Addition - Per Sq.Ft.:	0	$0.00
Storage/Industrial Bldg - E & F Occup - Per Sq.Ft.:	0	$0.00
Greenhouse/Argiculture on Premises - Per Sq.Ft.:	0	$0.00
Screen Enclsoure/Trail on Premises - Per Sq.Ft.:	0	$0.00
SS Underground Tanks/App Shelter - Per #:	0	$0.00
Construction not shown Above - Per Costs:	$0.00	$0.00
Alt/Repair Building/Structure - Per Costs:	$0.00	$0.00
Marine Structure Fee		
Dock Area - Per Sq.Ft.:	0	$0.00
Seawall - Per Linear Feet:	0	$0.00
Boat Lifts, Davits, Hoist - Per # of:	0	$0.00
Batter, Mooring, Dock Piles - Per # of:	0	$0.00
Marine Structure Alt/Repair - Per Costs:	$0.00	$0.00
SFBC Compliance Surcharge		
New Const/Add - Res/Mult-Fam/Comm - Per Sq.Ft.:	0	$0.00
New Const/Add - Strg/Ind/Msc - Per Sq.Ft.:	0	$0.00
Cost for Other Construction:		$0.00
Training Fee		
Training Fee:		$8.00
Sanitation Fee:		$24.00
Additional Fees		
1st Reinspection:		$0.00
Continued Reinspections - Per # of:	0	$0.00
Building Joint Inspections - Per # of:	0	$0.00
Change of Contractor Per # of:	0	$0.00
Permit Extension - Per # of:	0	$0.00
Residential Card:		
Commercial Card:		
Permit Card Replacements:		$0.00
Lost Plan Fee - SF:		$0.00
Lost Plan Fee - Other:		$0.00
Overtime Inspection Fees:		$0.00
Total of All Fees:		$126.80
Total of Payments:		$126.80
Balance Due:		$0.00

- Contractor has I required permit.

MIAMIBEACH

BUILDING DEPARTMENT
1700 Convention Center Drive
Miami Beach, FL 33139
Office: 305-673-7610 Fax: 305-673-7857

WORK PERMIT APPLICATION

FLORIDA BUILDING CODE IN EFFECT

Date _____ Permit # B0901380

If subsidiary or revision: provide the Master building permit number here B: _____

IS THIS PERMIT ASSOCIATED WITH A VIOLATION? If so; BV # _____

Is this a City Owned Property? ☐ Yes ☐ No **HISTORIC DISTRICT** ☐ Yes ☐ No

For **DEMOLITON** provide the year the structure was built: _____

Type of Property: ☐ Single Family ☐ Commercial ☐ Multi-Family/Condo ☐ ***Condo Conversion**

TYPE OF IMPROVEMENT: ☐ Building ☐ Electrical ☐ Plumbing ☐ Mechanical

☐ **New Construction** ☐ **Alteration/Remodel/Renovation** ☐ **Construction Revision**

Description of Work: Reroof Barrel to Barrel

Job Value $ 8000.00 **Square Feet** 1950

Linear Feet _____ **Pool Gallonage** _____ **No. of units** _____

Job Address 5800 N. Bay Rd. Miami Beach 33139

Folio # _____

Owner/Builder Mark Cosnor **Drivers License No.** _____

Address 5800 N. Bay Dr. Unit # _____

City _____ State _____ Zip _____ Phone _____

Fee Simple Title Holder's Name (if other than owner) _____

Address _____

City _____ State _____ Zip _____ Phone _____

Contractor Isaacs Roofing **License No.** CCC1325556

Address [redacted] 9245 SW 157 St.

City Miami State Fl. Zip 33157 Phone _____

Cell # _____ **E-mail** _____ Fax # _____

☐ **Architect** _____ **License No.** _____

Address _____

City _____ State _____ Zip _____ Phone _____

☐ **Engineer** _____ **License No.** _____

Address _____

City _____ State _____ Zip _____ Phone _____

Bonding Company Name _____

Address _____

City _____ State _____ Zip _____ Phone _____

Mortgage Lender's Name _____

Address _____

City _____ State _____ Zip _____ Phone _____

This application is hereby made to obtain a permit to do the work and installations as indicated. I certify that all work will be performed to meet the standards of all laws and construction regulations in this jurisdiction. I understand that **SEPARATE PERMITS** are required for ***Electrical, Mechanical, Plumbing, Signs, Swimming Pools, Spas, Windows, Sliding Glass Doors and Roofing***.

***CONDO CONVERSIONS are a change use of the building and require a new certificate of occupancy. If this application implies a condo conversion, it shall be clearly stated in the description and on the plans; otherwise, the certificate of occupancy will be denied.**

OWNER'S AFFIDAVIT: I certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws regulating construction and Zoning.

NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies or federal agencies.

Under penalties of perjury, I declare that to the best of my knowledge, the facts stated in this document are true. Any information found to be false may cause the revocation and/or denial of the permit and/or certificate of occupancy.

If the contractor is going to be hired by the tenant, check here. ☐

Signature of Owner or Agent	Signature of Tenant	Signature of Qualifier
Mark T Gainor		Alain Gonzalez
Printed Name of Owner or Agent	Printed Name of Tenant	Printed Name of Qualifier
Date Jan. 7/09	Date _____	Date 1-12-09
Signature of Notary Public	Signature of Notary Public	Signature of Notary Public
Identification	Identification _____	Identification
Sworn to and subscribed before me this 7th day of January 20, 09	Sworn to and subscribed before me this ___ day of _____ 20, _____	Sworn to and subscribed before me this 12th day of January 20, 09
(SEAL)	(SEAL)	(SEAL)

EVELYN RODRIGUEZ MY COMMISSION # DD 648557 EXPIRES: April 7, 2011 Bonded Thru Notary Public Underwriters

EVELYN RODRIGUEZ MY COMMISSION # DD 648557 EXPIRES: April 7, 2011 Bonded Thru Notary Public Underwriters

****If you are applying for this permit as Owner/Builder, please sign below only****

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT. NOTICE OF COMMENCEMENT SHOULD BE FILED AT: 22 NW 1ST STREET, MIAMI, FL

STATE OF FLORIDA **COUNTY OF DADE**

_____ _____

Print Owner's Name Owner's Signature

Sworn to and subscribed before me this _____day of _____20____, by: _____

( ) Personally Known ( ) Produced Identification - Type of Identification _____

_____

Signature of Notary Public (Seal)

Application Approved By: _____ (Permit Clerk)

Florida Building Code Edition 2004

High-Velocity Hurricane Zone Uniform Permit Application Form.

Section A (General Information)

Master Permit No. _____ **Process No.** _____

Contractor's Name ISAACS Roofing

Job Address 5800 N. Bay Rd.

ROOF CATEGORY

☐ Low Slope ☐ Mechanically Fastened Tile ☑ Mortar/Adhesive Set Tile

☐ Asphaltic Shingles ☐ Metal Panel/Shingles ☐ Wood Shingles/Shakes

☐ Prescriptive BUR-RAS 150

ROOF TYPE

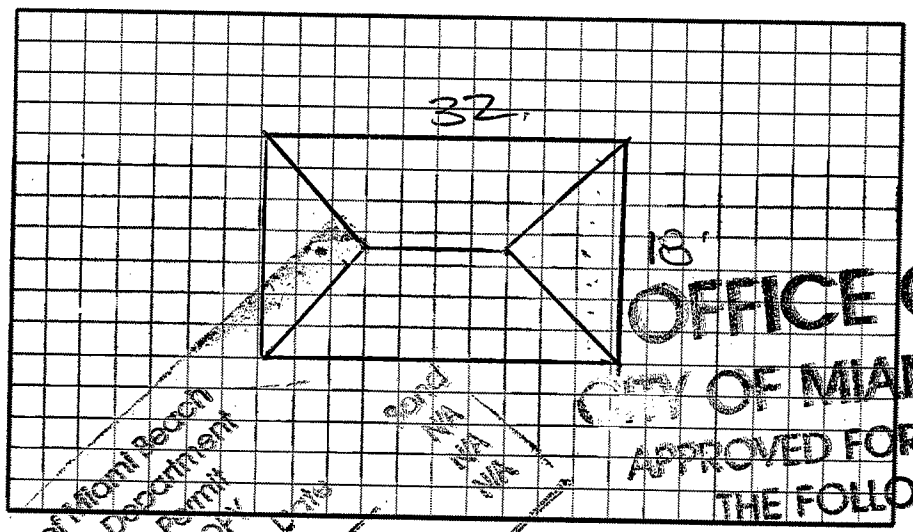
☐ New Roof ☑ Reroofing ☐ Recovering ☐ Repair ☐ Maintenance

ROOF SYSTEM INFORMATION

Low Slope Roof Area (SF) **Steep Sloped Roof Area (SF)** 576 **Total (SF)** 576

Section B (Roof Plan)

Sketch Roof Plan: Illustrate all levels and sections, roof drains, scuppers, overflow scuppers and overflow drains. Include dimensions of sections and levels, clearly identify dimensions of elevated pressure zones and location of parapets.



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

City of Miami Beach
Building Department
Roofing Permit
OFFICE COPY
Initials

Review Type
Structural
Zoning
Engineering
Public Works

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

11/15/09
01/15/09
01-15-2009
01/15/09

Florida Building Code Edition 2004

High-Velocity Hurricane Zone Uniform Permit Application Form.

Section D (Steep Sloped Roof System)

Roof System Manufacturer: ARTEZANOS, INC.

Notice of Acceptance Number: 08.0617.01

Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations): P1: 45 P2: 95.1 P3: 95.1

Maximum Design Pressure (From the Product Approval Specific System): 190.84.

Steep Sloped Roof System Description

Deck Type: 5/8 plywood.

Type Underlayment: 30#

Roof Slope: 3½ : 12

Insulation: N/A

Fire Barrier: N/A.

Ridge Ventilation? N/A

Fastener Type & Spacing: 1¼" Ringshanks

Adhesive Type: hot asphalt.

Type Cap Sheet: 90#

Mean Roof Height: 10'

Roof Covering: ARTEZANOS, INC

Type & Size Drip Edge: 3x3 copper

High Velocity Hurricane Zone Uniform Roofing Permit Application Form
MIAMI-DADE COUNTY BUILDING DEPARTMENT ELECTRONIC APPLICATION

Section E (Tile Calculations)

For Moment based tile systems, chose either Method 1 or 2. Compare the values for Mr with the values from Mf. If the Mf values are greater than or equal to the Mr values, for each aea of the roof, then the tile attachment method is acceptable.

Method 1 "Moment Based Tile Calculations Per RAS 127"

P 1: 45 **x λ** .22 **- Mg:** 4.89 **= Mr1:** 5.01 **NOA Mf:** 190.84

P 2: 95.1 **x λ** .22 **- Mg:** 4.89 **= Mr1:** 16.032 **NOA Mf:** 190.84

P 3: 95.1 **x λ** .22 **- Mg:** 4.89 **= Mr1:** 16.032 **NOA Mf:** 190.84

Method 2 "Simplified Tile Calculation Per Table Below"

Required Moment of Resistance (Mr) From the Table Below: _____ **NOA Mf:** _____

Mr Required Moment Resistance*

Mean Roof Height in Feet	15'	20'	25'	30'	40'
Roof Slope	↓	↓	↓	↓	↓
2:12	34.4	36.5	38.2	39.7	42.2
3:12	32.2	34.4	36.0	37.4	39.8
4:12	30.4	32.2	33.8	35.1	37.3
5:12	28.4	30.1	31.6	32.8	34.9
6:12	26.4	28.0	29.4	30.5	32.4
7:12	24.4	25.9	27.1	28.2	30.0

***This Table must be used in conjunction with a list of moment based tile systems endorsed by the Broward county Board of Rules and Appeals.**

Chapter 15, Section 1524 - HIGH-VELOCITY HURRICANE ZONES— REQUIRED OWNERS NOTIFICATION FOR ROOFING CONSIDERATIONS

SECTION 1524 HIGH-VELOCITY HURRICANE ZONES— REQUIRED OWNERS NOTIFICATION FOR ROOFING CONSIDERATIONS

Chapter 15, Section 1524, (1)
1524.1 Scope.

As it pertains to this section, it is the responsibility of the roofing contractor to provide the owner with the required roofing permit, and to explain to the owner the content of this section. The provisions of Chapter 15 of the *Florida Building Code, Building* govern the minimum requirements and standards of the industry for roofing system installations. Additionally, the following items should be addressed as part of the agreement between the owner and the contractor. The owner's initial in the designated space indicates that the item has been explained.

Chapter 15, Section 1524, (1)(ab1)
1. Aesthetics-workmanship: The workmanship provisions of Chapter 15 (High-Velocity Hurricane Zone) are for the purpose of providing that the roofing system meets the wind resistance and water intrusion performance standards. Aesthetics (appearance) are not a consideration with respect to workmanship provisions. Aesthetic issues such as color or architectural appearance, that are not part of a zoning code, should be addressed as part of the agreement between the owner and the contractor.

Chapter 15, Section 1524, (1)(ac2)
2. Renailing wood decks: When replacing roofing, the existing wood roof deck may have to be renailed in accordance with the current provisions of Chapter 16 (High-Velocity Hurricane Zones) of the. (The roof deck is usually concealed prior to removing the existing roof system.)

Chapter 15, Section 1524, (1)(ad3)
3. Common roofs: Common roofs are those which have no visible delineation between neighboring units (i.e., townhouses, condominiums, etc.). In buildings with common roofs, the roofing contractor and/or owner should notify the occupants of adjacent units of roofing work to be performed.

Chapter 15, Section 1524, (1)(ae4)
4. Exposed ceilings: Exposed, open beam ceilings are where the underside of the roof decking can be viewed from below. The owner may wish to maintain the architectural appearance; therefore, roofing nail penetrations of the underside of the decking may not be acceptable. The owner provides the option of maintaining this appearance.

Chapter 15, Section 1524, (1)(af5)
5. Ponding water: The current roof system and/or deck of the building may not drain well and may cause water to pond (accumulate) in low-lying areas of the roof. Ponding can be an indication of structural distress and may require the review of a professional structural engineer. Ponding may shorten the life expectancy and performance of the new roofing system. Ponding conditions may not be evident until the original roofing system is removed. Ponding conditions should be corrected.

Chapter 15, Section 1524, (1)(ag6)

6. Overflow scuppers (wall outlets): It is required that rainwater flow off so that the roof is not overloaded from a buildup of water. Perimeter/edge walls or other roof extensions may block this discharge if overflow scuppers (wall outlets) are not provided. It may be necessary to install overflow scuppers in accordance with the requirements of: Chapter 15 and 16 herein and the *Florida Building Code, Plumbing.*

Chapter 15, Section 1524, (1)(ah7)

7. Ventilation: Most roof structures should have some ability to vent natural airflow through the interior of the structural assembly (the building itself). The existing amount of attic ventilation shall not be reduced. It may be beneficial to consider additional venting which can result in extending the service life of the roof.

Owner's/Agent's Signature Date Contractor's Signature

Jan. 15 2009

WATSON MANAGEMENT SERVICES LLC
8859 Carlyle Ave Surfside FL 33154

Due to the unique characteristics of the barrel tile on the cabana at 5800 N Bay Rd we will try to save or salvage the tiles during the cabana project.

Thank you,

James Watson

James Watson

MIA[redacted]

BUI[redacted]NCE O[redacted])
PR[redacted]UC[redacted]NTROL[redacted]ISION

MI[redacted]CO[redacted]TY, F[redacted]
[redacted]GLER[redacted]UILDING
140 WEST[redacted]GI[redacted]ITE 1603
[redacted]M[redacted]MI,[redacted]30-1563
(3[redacted]75[redacted]901 FA[redacted]008

N[redacted]ICE OF[redacted]PTA[redacted]E (NOA)

A[redacted]ezan[redacted]
9455 [redacted] Street
Miami, FL 33173

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

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

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Artezanos World Class

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

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

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, 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 revises NOA # 06-0105.04 and consists of pages 1 through 11.
The submitted documentation was reviewed by Alex Tigera.

MIAMI-DADE COUNTY APPROVED

NOA No 08-0617.01
Expiration Date: 05/14/09
Approval Date: 10/09/08

ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub Category: Roofing Tiles
Material: Clay

1. SCOPE

This approves a roofing system using "World Class Two Piece Handmade Tapered Mission Barrel Roofing Tile" Clay Roof Tile, as manufactured by Artezanos, Inc. described in Section 2 of this Notice of Acceptance. For the locations where the pressure requirements, as determined by applicable Building Code, does not exceed the values listed in section 4 herein. The attachment calculations shall be done as a moment based system.

2. PRODUCT DESCRIPTION

Manufactured by Applicant	Dimensions	Test Specifications	Product Description
2 Piece Handmade Tapered Mission Barrel Tile	l = 18" w = 8" ½" thick	ASTM C 1167	High profile, two piece, barrel, clay roof tile. For direct deck adhesive or mortar set applications.
Italian Pan Tile	l = 19.4" w = 10" ½" thick	ASTM C 1167	Flat pan clay tile to be used in conjuction with Handmade Tapered Mission Barrel Tile as the cap. For direct deck adhesive or mortar set applications.
Steel Pan	l = 21"- 84" w = 7.5" .0179" thick (26 ga.)	TAS 110	Kynar or Hylar coated steel pan tile to be used in conjuction with Handmade Tapered Mission Barrel Tile as the cap. For direct deck adhesive set applications.
Aluminum Pan	l = 21"-84" w = 7.5" .025" thick (22 ga.)	TAS 110	Aluminum pan tile (with optional coating of Kynar or Hylar) to be used in conjuction with Handmade Tapered Mission Barrel Tile as the cap. For direct deck adhesive set applications.
Trim Pieces	l = varies w = varies varying thickness	ASTM C 1167	Accessory trim, clay roof pieces for use at hips, rakes, ridges and valley terminations.

2.1. EVIDENCE SUBMITTED

Test Agency	Test Identifier	Test Name/Report	Date
Testwell Craig Laboratories & Consultants, Inc.	Lab #ABM-4	Static Uplift Testing PA 101 (Mortar Set)	Jan 1995
	Lab #ABM-20	Static Uplift Testing PA 101 (Adhesive Set)	Nov 1995
	Lab #ABM-1	Physical Properties ASTM C 1167	2003
IBA Consultants Inc.	2352-39	Physical Properties ASTM C 1167	Nov. 2005
	2352-47	Physical Properties ASTM C 1167	June 2006
	2352-38	Static Uplift Testing TAS 101 (Adhesive Set)	Dec. 2005
	2352-64	Static Uplift Testing TAS 101 (Mortar Set)	May 2008
	2352-53	Static Uplift Testing TAS 101 (Adhesive Set with Steel Pan)	April 2008
	2352-59	Static Uplift Testing TAS 101 (Adhesive Set with Aluminum Pan)	April 2008
Walker Engineering		Thermal Expansion of Steel, Concrete and Clay Components	
Southwest Research Institute	01.13537.01.310	ASTM E-108	April 2008

3. LIMITATIONS

3.1 Fire classification is not part of this acceptance.

3.2 For mortar or adhesive set tile applications, a static field uplift test in accordance with RAS 106 may required, refer to applicable building code.

3.3 Applicant shall retain the services of a Miami-Dade County Certified Laboratory to perform quarterly test in accordance with TAS 112, appendix 'A'. Such testing shall be submitted to the Building Code Compliance Office for review.

3.4 Minimum underlayments shall be in compliance with the applicable Roofing Applications Standards listed section 4.1, 4.3, 4.5 and 4.7 herein.

3.5 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.

3.6 This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.

3.7 When using Steel or Aluminum Pan tile, panels must be clean to ensure proper adhesion.

4. INSTALLATION

System A1 – Handmade Barrel Tile (Two-Piece Cap and Pan)

4.1. "World Class Two Piece Handmade Tapered Mission Roofing Tile" and its components shall be installed in strict compliance with Roofing Application Standard RAS 120.

4.2. Data for Attachment Calculations

Table 1: Average Weight (W) and Dimensions (l x w)			
Tile Profile	**Weight-W (lbf)**	**Length - l (feet)**	**Width - w (feet)**
Two Piece Handmade Tapered Mission Tile	5.8	1.42	0.58

Table 2: Aerodynamic Multipliers - λ (ft^3)	
Tile Profile	**λ (ft^3) Direct Deck Application**
Two Piece Handmade Tapered Mission Tile	0.22

Table 3: Restoring Moments due to Gravity - M_g (ft-lbf)						
Tile Profile	**2":12"**	**3":12"**	**4":12"**	**5":12"**	**6":12"**	**7":12"**
Two Piece Handmade Tapered Mission Tile	3.9	3.8	3.7	3.6	3.5	3.4

Table 4: Attachment Resistance Expressed as a Moment - M_f (ft-lbf) for Mortar or Adhesive Set Systems		
Tile Profile	**Tile Application**	**Attachment Resistance**
Two Piece Handmade Tapered Mission Tile	Adhesive Set	111.4[1]
1. Place 42 grams per pan and 21 grams per cap (on each side) of PolyPro™.		

Table 5: Attachment Resistance Expressed as a Moment - M_f (ft-lbf) for Mortar Set Systems		
Tile Profile	**Tile Application**	**Attachment Resistance**
Two Piece Handmade Tapered Mission Tile	Mortar Set	57.4[2]
2. Quickcrete Mortar		

System A2 – Handmade Barrel Tile with Italian Pan Tile

4.3. "World Class Two Piece Handmade Tapered Mission Roofing Tile" and its components shall be installed in strict compliance with Roofing Application Standard RAS 120.

4.4. Data for Attachment Calculations

Table 1: Average Weight (W) and Dimensions (l x w)			
Tile Profile	**Weight-W (lbf)**	**Length - l (feet)**	**Width - w (feet)**
Handmade Tapered Mission Tile with Italian Pan Tile	5.2	1.5	0.667

Table 2: Aerodynamic Multipliers - λ (ft^3)	
Tile Profile	**λ (ft^3) Direct Deck Application**
Handmade Tapered Mission Tile with Italian Pan Tile	0.22

Table 3: Restoring Moments due to Gravity - M_g (ft-lbf)						
Tile Profile	**2":12"**	**3":12"**	**4":12"**	**5":12"**	**6":12"**	**7":12"**
Handmade Tapered Mission Tile with Italian Pan Tile	4.85	4.77	4.66	4.51	4.30	4.05

Table 4: Attachment Resistance Expressed as a Moment - M_f (ft-lbf) for Mortar or Adhesive Set Systems		
Tile Profile	**Tile Application**	**Attachment Resistance**
Handmade Tapered Mission Tile with Italian Pan Tile	Adhesive Set	63.4[3]
3. Place 19.3 grams per pan and 10 grams per cap (on each side) of PolyPro™.		

Table 5: Attachment Resistance Expressed as a Moment - M_f (ft-lbf) for Mortar Set Systems		
Tile Profile	**Tile Application**	**Attachment Resistance**
Handmade Tapered Mission Tile with Italian Pan Tile	Mortar Set	77.64[4]
4. Quickcrete Mortar		

System A3 – Handmade Barrel Tile with Steel Pan Tile

4.5. "World Class Two Piece Handmade Tapered Mission Roofing Tile" and its components shall be installed in strict compliance with Roofing Application Standard RAS 120. **(See Detail B)**

4.6. Data for Attachment Calculations

Table 1: Average Weight (W) and Dimensions (l x w)			
Tile Profile	**Weight-W (lbf)**	**Length - l (feet)**	**Width - w (feet)**
Handmade Tapered Mission Tile/Steel Pan	5.2	1.5	0.667

Table 2: Aerodynamic Multipliers - λ (ft^3)	
Tile Profile	**λ (ft^3) Direct Deck Application**
Handmade Tapered Mission Tile/Steel Pan	0.22

Table 3: Restoring Moments due to Gravity - M_g (ft-lbf)						
Tile Profile	**2":12"**	**3":12"**	**4":12"**	**5":12"**	**6":12"**	**7":12"**
Handmade Tapered Mission Tile/Steel Pan	5.13	5.05	4.93	4.77	4.56	4.29

Table 4: Attachment Resistance Expressed as a Moment - M_f (ft-lbf) for Mortar or Adhesive Set Systems		
Tile Profile	**Tile Application**	**Attachment Resistance**
Handmade Tapered Mission Tile/Steel Pan	Adhesive Set	39.57[5]
5. Place 9.3 grams per step of pan and 5 grams on each side of cap of PolyPro™.		

System A4 – Handmade Barrel Tile with Aluminum Pan Tile

4.7. "World Class Two Piece Handmade Tapered Mission Roofing Tile" and its components shall be installed in strict compliance with Roofing Application Standard RAS 120. **(See Detail C)**

4.8. Data for Attachment Calculations

Table 1: Average Weight (W) and Dimensions (l x w)			
Tile Profile	**Weight-W (lbf)**	**Length - l (feet)**	**Width - w (feet)**
Handmade Tapered Mission Tile/Aluminum Pan	5.2	1.5	0.667

Table 2: Aerodynamic Multipliers - λ (ft^3)	
Tile Profile	**λ (ft^3) Direct Deck Application**
Handmade Tapered Mission Tile/Aluminum Pan	0.22

Table 3: Restoring Moments due to Gravity - M_g (ft-lbf)						
Tile Profile	**2":12"**	**3":12"**	**4":12"**	**5":12"**	**6":12"**	**7":12"**
Handmade Tapered Mission Tile/Aluminum Pan	5.08	5.01	4.89	4.74	4.54	4.28

Table 4: Attachment Resistance Expressed as a Moment - M_f (ft-lbf) for Mortar or Adhesive Set Systems		
Tile Profile	**Tile Application**	**Attachment Resistance**
Handmade Tapered Mission Tile/Aluminum Pan	Adhesive Set	190.84[6]
6. Place 31.9 grams **per step** of pan and 17.5 grams for each side of the cap of PolyPro™.		

5. LABELING

All tiles shall bear the imprint or identifiable marking of the manufacturer's name or logo **(See Detail Below)**, or following statement: "Miami-Dade County Product Control Approved".

ARTEZANOS WORLD CLASS TILE LABEL
(LOCATED ON EITHER TOPSIDE OR UNDERSIDE OF TILE)

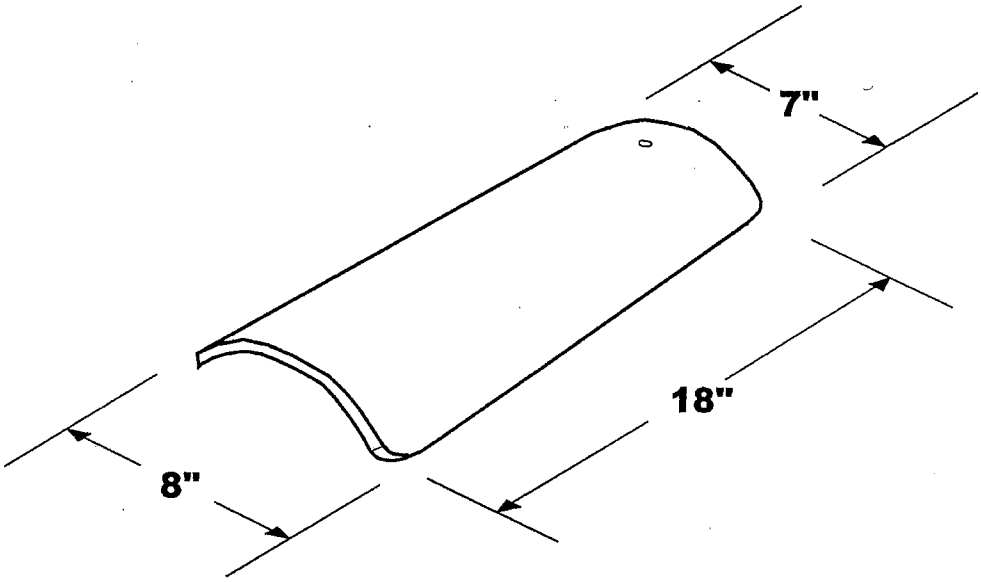
6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

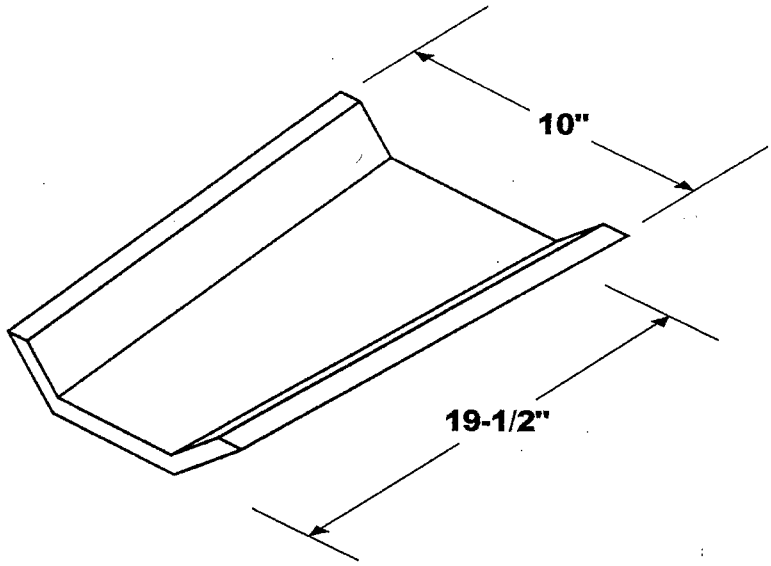
6.1.1 This Notice of Acceptance.

6.1.2 Any other documents as required by the Building Official in order to properly evaluate the installation of this system.

PROFILE DRAWING

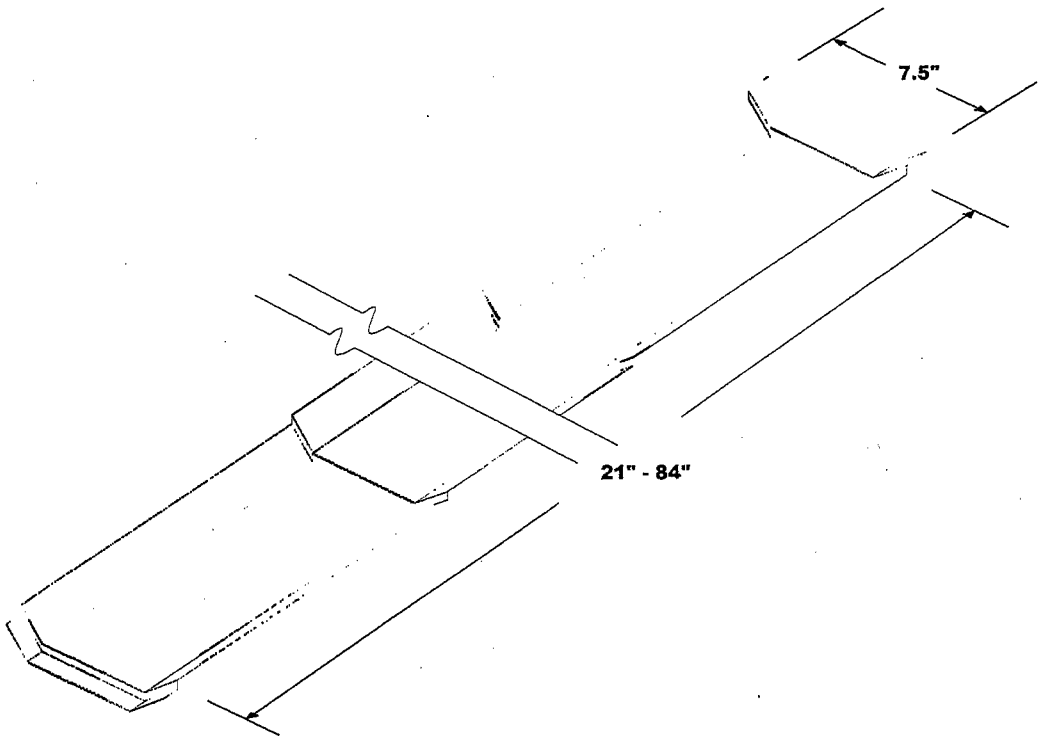


ARTEZANOS, INC. " 2 PIECE HANDMADE TAPERED MISSION BARREL TILE
DETAIL A

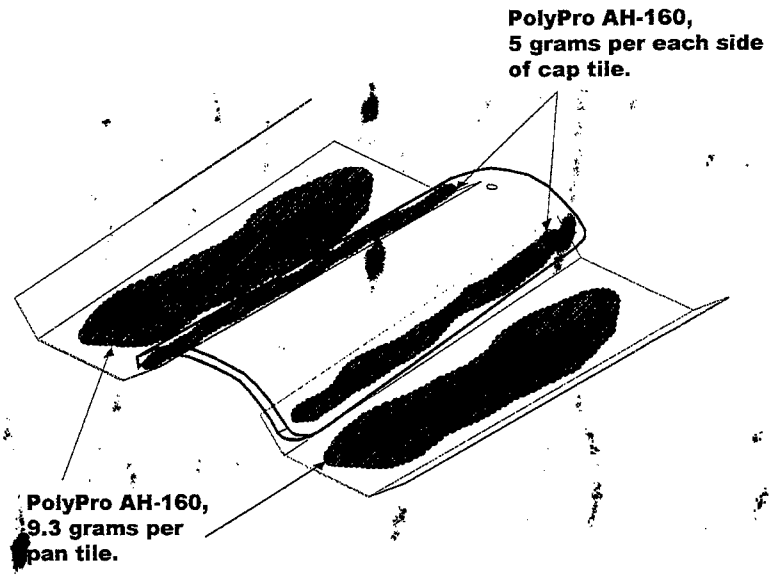


ARTEZANOS, INC. ITALIAN PAN TILE

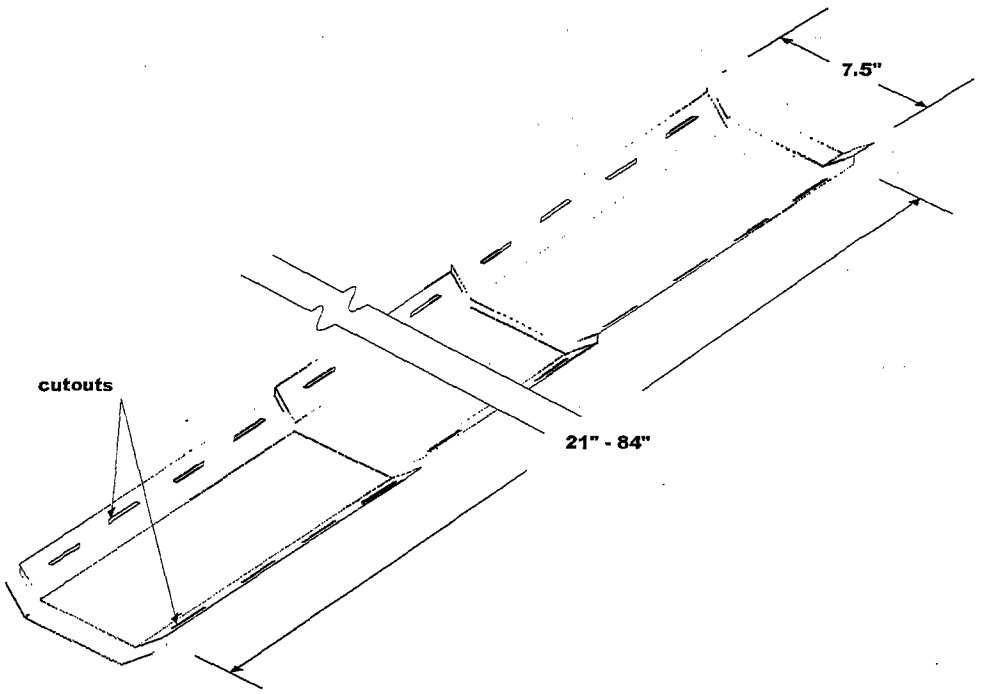
DETAIL B



ARTEZANOS, INC. STEEL PAN TILE



DETAIL C



ARTEZANOS, INC. ALUMINUM PAN TILE

END OF THIS ACCEPTANCE

MIAMI-DADE COUNTY APPROVED

NOA No. 08-0627.01
Expiration Date: 07/14/09
Approval Date: 09/09/08
Page 11 of 11

PUBLIC WORKS
Phone 305-673-7080 Fax 305-673-7028

THIS PLAN REVIEW CONSTITUTES APPROVAL FOR OBTAINING BUILDING PERMITS ONLY.

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

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

Approved/Reviewed By: ____________ Date: ________

48 HOURS PRIOR TO EXCAVATING CONTRACTOR SHALL CALL FOR LOCATION OF UNDERGROUND UTILITIES
SUNSHINE ONE-CALL 1-800-432-4770
CITY OF MIAMI BEACH 305-673-7080

STRU JAA 01/15/09

ENG 01/15/09

PUBLIC WORKS ENG — 01-15-2009 APPROVED — ENL —

ZONE: [illegible] 1/15/09

B0908 80

B0900880

5800 N BAY RD

OFFICE COPY

MIAMIBEACH

B1505266 APP

Building Department
1700 Convention Ctr Drive, 2nd Floor
Miami Beach, Florida 33139
Tel: (305) 673-7610
Fax: (305) 673-7857

WORK PERMIT

08-06-2015

Activity Number: B1505266

Status: APPROVED
BUILJOHJ

Issued By:

Site Address: 5800 N BAY RD MBCH
Parcel #: 32150030270

Applied: 07/09/2015
Approved: 08/06/2015
Completed:
To Expire: 02/02/2016

Valuation: $10,800.00

Applicant: PONS ESTIMATING SERVICES, INC.
C
80 NW 22ND AVE
MIAMI, FL 33145
305-392-1153

Property Owner: 5800 NORTH BAY ROAD, MIAMI, LL
5800 NORTH BAY ROAD
MIAMI BEACH FL 33140

Description: **Seawall fence.**
Inspector Area: C Class Code: R3

Total of All Fees:	$343.87
Total of Payments:	$343.87
Balance Due:	$0.00

PAID
AUG 06 2015
CITY OF MIAMI BEACH
BUILDING DEPARTMENT

[BSBLDPRM14]

MIAMIBEACH

Building Department
1700 Convention Center Drive, 2nd Floor
Miami Beach, Florida 33139
Office: 305.673.7610 Fax: 305.673.7857
http://www.miamibeachfl.gov/building/

Office Use Only
Submittal Date: _____
Permit Number: _____

Permit Application

Applicant Information (Blue or Black Ink Only)

Property Address	Unit Number	Parcel/Folio Number
5800 North Bay Road		02-3215-003-0270

If sub-permit or revision, please indicate the Master Permit Number	Elevator I.D. number	If associated with violation, indicate BV#	Please note that outstanding expired permits must be resolved prior to the issuance of a work permit

Permit Type (select one)		Permit Request (select all that apply)		Property Information (select one)
☒ Building	☐ Demolition - Year built_____	☒ New Permit	☐ Permit Extension	☐ Commercial
☐ Electrical	☐ Generator	☐ Change of Contractor	☐ Permit Renewal	☐ Multi-Family Residential
☐ Mechanical	☐ Special Event	☐ Change of Architect/Engineer	☐ Permit Revision	☒ Residential: Single-Family Residential or Duplex
☐ Plumbing	☐ Fire	☐ LEED	☐ Change of Use	Total Value of Work
☐ Roofing	☐ Elevator		☐ Private Provider	$ 28,500
☐ Phased Permit			☐ City Project	

	New Construction/Addition	Alteration/Reconfiguration of Space
Square Footage	SF	191 LF SF
Value of Work	$	$
☐ A-1 Assembly (Theater/ Concert Hall) ☐ A-2 Assembly (Restaurant/Night Club/ Bar) ☐ A-3 Assembly (Worship/Amusement/ Arcade Community Hall ☐ B – Business ☐ D/E -Daycare & Educational ☐ I-1 Institutional (Ambulatory) ☐ I-2 Institutional (Non Ambulatory)	☐ M -Department Store / Drug Store ☐ M -Gas Station ☐ M – Retail/ Warehouse ☐ R-1 Residential Transient (Boarding House/ Hotel/Motel) ☐ R-2 Residential Permanent (Apartment/Dormitory/ Timeshare	☐ R-3 Residential (Dwelling/ Custom Homes) ☐ R-4 Residential (Assisted Living 6-16 person) ☐ S-1 Storage (Mod. Hazard (Repair Garage) ☐ S-2 Storage (Low Hazard (excluding Parking Garage) ☐ S-2 Storage (Parking Garage)

Description of Work

Provide a summary of work to be done.
Seawall fence

Responsible Parties

Property Owner

Name: Phil Collins
Address: 5800 North Bay Rd Suite: F1 Zip Code: 33140
City: Miami Beach State:
Driver's License/ State Identification Number:
E-Mail Address:
Daytime phone: Cell Phone:

Contractor

Name: Pons Estimating Services
Address: 80 NW 22 Ave Suite: Florida Zip Code: 33125
City: Miami State:
State Identification Number/License: CGC1518735
E-Mail Address: mapons@ponsestimating.com
Daytime phone: 305-562-4726 Cell Phone:

Architect

Name:
Address: Suite:
City: State: Zip Code:
Professional License Number:
E-Mail Address:
Daytime phone: Cell Phone:

Structural Engineer

Name:
Address: Suite:
City: State: Zip Code:
Professional License Number:
E-Mail Address:
Daytime phone: Cell Phone:

Notice & Certification

This application is hereby made to obtain a permit to do the work and installations as indicated. I certify that all work will be performed to meet the standards of all laws and construction regulations in this jurisdiction. I understand that a **separate permit** must be secured for **Electrical, Elevator, Fire, Mechanical, Plumbing, Signs, Wells, Pools, Furnaces, Boilers, Heaters, Tanks, Air Conditioners**, etc.

Owner's Affidavit: I certify that all the forgoing information is correct. Owner Certifies that the aforementioned Contractor has the authorization to perform the work as specified above.

Lessee's Affidavit: Lessee certifies that he has full consent and authorization from owner of subject property to perform the abovementioned work and to hire above captioned contractor.

In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as the Environmental Division of Miami-Dade County; Permitting, Environment and Regulatory Affairs; Water & Sewer Department; Department of Environmental Protection; South Florida Water Management District; Miami-Dade County Impact Fee water management districts; state agencies; and/or federal agencies.

Under penalties of perjury, I declare that to the best of my knowledge, the facts stated in this document are true. Any information found to be false may cause the revocation and/or denial of the permit and/or Certificate of Occupancy.

OWNER'S ELECTRONIC SUBMISSION STATEMENT: Under penalty of perjury, I declare that all the information contained in this building permit application is true and correct.

☐ **Owner/Lessee for new permits** (Documentation establishing ownership may be requested)
☐ **Master Permit Contractor of Record** (For sub-permit change of contractor)

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT IS REQUIRED FOR ANY WORK WITH COST EXCEEDING $2500.00.

Phil Collins
Print Name

Signature

STATE OF FLORIDA , COUNTY OF MIAMI-DADE

Sworn to and subscribed before me this 27 day of June 2015, by Phil Collins

☒ Personally
☐ Produced Identification – Type of Identification _____

Angelica Lavin
Signature of Notary Public

(SEAL)

NOTARY PUBLIC STATE OF FLORIDA

ANGELICA LAVIN
MY COMMISSION # EE 860784
EXPIRES: April 7, 2017
Bonded thru Budget Notary Services

☐ **Contractor** (Proof of licensure may be required if not on file)

Mario Andres Pay
Print Qualifier's Name

Qualifier's Signature

STATE OF FLORIDA , COUNTY OF MIAMI-DADE

Sworn to and subscribed before me this 27 day of June 2015, by _____

☒ Personally
☐ Produced Identification – Type of Identification _____

Angelica Lavin
Signature of Notary Public

(SEAL)

NOTARY PUBLIC STATE OF FLORIDA

ANGELICA LAVIN
MY COMMISSION # EE 860784
EXPIRES: April 7, 2017
Bonded thru Budget Notary Services

7/9/15

B0502904

52.44

MIAMIBEACH

Building Department
1700 Convention Center Drive
Miami Beach, Florida 33139
Tel: 305-673-7610
www.miamibeachfl.gov

CONSTRUCTION COST AFFIDAVIT

For Office Use Only

Permit/Process No	
Date of Submittal	

I Phil Collins, acting as agent (owner, registered agent, legal representative) do hereby attest that the construction costs indicated herein are accurate for the construction project located at:

5800 North Bay Road.

Master Permits:

Total project cost: 10,800^00

Building cost (excludes roofing, windows, railings and MEP) $: _____

Stand alone and sub permits

Roofing $: _____

Windows $: _____

Railings $: _____

Electrical $: _____

Mechanical $: _____

Plumbing $: _____

Registered Owner: Phil Collins

Signature of Owner/Agent: [signature]

Printed Name: PHIL COLLINS

STATE OF FLORIDA
COUNTY OF Miami-Dade

The foregoing instrument was acknowledged before me this 28 day of July, 20 15 by Phil Collins, who is personally known to me or who has produced _____ as identification and who has taken an oath.

Angela V. Bassas
Notary Public, State of Florida

Angela Bassas
Printed Name

ANGELA
MY COMMISSION
EXPIRES: APR
Bonded through 1st

ANGELA V. BASSAS
MY COMMISSION #FF225614
EXPIRES: APR 29, 2019
Bonded through 1st State Insurance

Commission Number: FF225614 My Commission Expires: Apr 29, 2019

Revised November 2014

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YY): 08/04/15

PRODUCER: WAM Insurance Agency
10637 SW 88th St. Ste 7-I
Miami, FL 33176
Phone (305)274-4353 Fax (305)274-9994

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED: Peninsula Plumbing, Inc
206 SW 22 Road
Miami, FL 33129-

INSURERS AFFORDING COVERAGE	NAIC #
INSURER A: SCOTTSDALE INSURANCE CO.	
INSURER B: ASCENDANT COMMERCIAL INSURAN	
INSURER C: TECHNOLOGY INSURANCE COMPAN	
INSURER D:	
INSURER E:	
INSURER F:	

COVERAGES

THE POLICIES OF INSURANCE LISTED HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN. THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	☑	GENERAL LIABILITY ☑ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS MADE ☑ OCCUR ☐ _____ ☐ _____ GEN'L AGGREGATE LIMIT APPLIES PER: ☑ POLICY ☐ PROJECT ☐ LOC	CPS2245520	07/28/15	07/28/16	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	1'000,000 100,000 5,000 1'000,000 2,000,000 2'000,000
B	☐	AUTOMOBILE LIABILITY ☐ ANY AUTO ☐ ALL OWNED AUTOS ☑ SCHEDULED AUTOS ☐ HIRED AUTOS ☐ NON OWNED AUTOS ☐ _____ ☐	CA31438-3	10/20/14	10/20/15	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	30,000.00
C	☐	GARAGE LIABILITY ☐ ANY AUTO ☐				AUTO ONLY - EA ACCIDENT OTHER THAN AUTO ONLY: EA ACC / AGG	
	☐	EXCESS/UMBRELLA LIABILITY ☐ OCCUR ☐ CLAIMS MADE ☐ DEDUCTIBLE ☐ RETENTION $				EACH OCCURRENCE AGGREGATE	
C		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER / MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below	TWC3425375	06/30/15	06/30/16	☐ WC STATU-TORY LIMITS ☑ OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 1,000,000 1,000,000 1,000,000
		OTHER					

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

PONS ESTIMATING SERVICES IS NAMED AS ADDITIONAL INSURED

CERTIFICATE HOLDER

CITY OF MIAMI BEACH
1700 CONVENTION CENTER DRIVE
MIAMI BEACH, FL 33139

305-673-7857/ 786-394-4231

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE
WILVER ALMARALES

B1505240C

HSD

2015

HERNANDEZ STRUCTURAL DESIGN

2010 FLORIDA BUILDING CODE

Structural calculations by:
Victor Hernandez
PE # 72387
Project # **5800 NORTH BAY ROAD MIAMI FL SEAWALL GUARDRAIL**
7-4-2015

Rational Analysis and Engineering Design Calculations

City of Miami, Florida

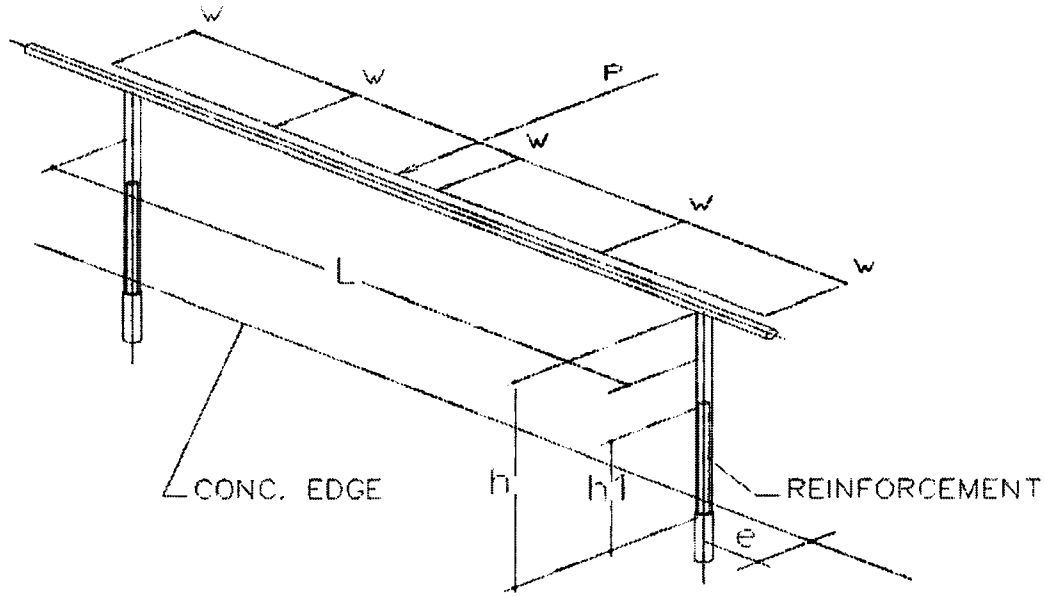
TABLE OF CONTENTS

8500 NW 26 DR, Coral Springs fl 33065 PH:754-422-8796,

7/5/15

HERNANDEZ STRUCTURAL DESIGN INC.
8500 N.W. 26 DR,
Coral Springs, Fl 33065

CLIENT: GALECKI GROUP LLC
PROJECT: SEAWALL GUARDRAIL
DESCRIPTION: SEAWALL GUARDRAIL
ADDRESS: 5800 NORTH BAY ROAD MIAMI, FLORIDA



P = Concentrated load applied to the top rail, (lb).
w = Uniform loading, (lb/ft)
L = Span between centerlines of posts or mounting brackets
h = Height of post from the top of the attachment to the point of load application
h1 = Height of reinforcing insert inside post above the top of the attachment, (in).
fb = Bending stress, (ksi).
fd = Allowable yield strength for design, (ksi).
S = Section modulus, (in3)
S1 = Combined section modulus of post with reinforcing insert, (in3).
e = Edge distance

Concentrated load carried by any one post estimated as follows: End posts for 2-span rail = 85% Intermediate posts: 2-span rail – 65%; 3 or more spans – 60%

Tubing Mechanical Properties

Material	Tensile Strength (psi)	Yield Strength (psi)	Allowable Yield Strength (psi) *	Modulus of Elasticity (ksi)
Aluminum 6061-T6 Pipe ASTM429	38,000	35,000	24,000***	10,100
Aluminum 6063-T6 Pipe ASTM429	30,000	25,000	18,000***	10,100
Carbon Steel Structural Tubing ASTM A500 Grade B	50,000	42,000	25,500	
Carbon Steel Pipe ASTM A53 Type F Grade B Type E Grade B	60,000	35,000	21,000	
Hollaender Tubular Dowel 6061-T6	38,000	35,000	24,000	10,100

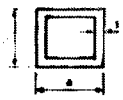
*The allowable yield strength of aluminum pipe in bending is defined by the Aluminum Association to be (1.17 x Minimum Yield Strength) / 1.65.

**Reduce to 8,000 within 1 inch of weld

***Reduce to 14,000 within 1 inch of weld

TUBING PROPERTIES

SQUARE TUBING



Bronze Aluminum

ALUMINUM							BRONZE					
a	t	Area	I	S	r	a	t	Area	I	S	r
.500	.062	.109	.003	.014	.181	.500	.093	.151	.004	.018	.171
.625	.062	.140	.007	.024	.231	.625	.093	.198	.010	.031	.220
.750	.062	.171	.014	.036	.282	.750	.093	.244	.018	.048	.271
.750	.125	.312	.021	.056	.260	1.000	.100	.360	.049	.098	.370
1.000	.125	.437	.057	.114	.361	1.250	.100	.460	.102	.163	.471
1.250	.078	.366	.084	.134	.480	1.500	.100	.560	.184	.245	.573
1.250	.125	.562	.120	.192	.462	1.750	.100	.660	.300	.344	.675
1.500	.078	.444	.150	.200	.581	2.000	.125	.938	.552	.552	.767
1.500	.125	.687	.218	.291	.564	3.000*	.083	.968	1.374	.916	1.192
1.750	.125	.812	.360	.411	.666						
2.000	.078	.600	.370	.370	.785	Architectural Bronze 385 Except (*) Red Brass 230					
2.000	.125	.937	.552	.552	.767						
2.500	.125	1.187	1.119	.896	.971						
3.000	.125	1.437	1.984	1.323	1.175						
4.000	.125	1.937	4.854	2.427	1.563						

DESIGN CRITERIA:			
Post Design			
Fy=	35 ksi	Aluminum 6061-T6 ASTM429	
Fb=	8 ksi	(Within 1" of Weld Pt)	
Live Load (L_L)=	50 p/f	or P=	200 lbs
Based on the load distribution factors, the design load for an intermediate post is 60% of 200 lb, or 120 lb, and for an end post is 82% of 200 lb, or 164 lb.			
Live Load Intermediate post=	200x0.60	120 lbs	
Live Load for End post	200x0.82	164 lbs	
Live Load (L_L)=	25 psf	(for pickets)	
Height (h)	48 in	(for pickets)	

Moment M=(Pxh)=		7872	lbs-in
Required Section Modulus (S_{REQ}) =	M/Fb =	0.9840	in^3

TRY = 2X2X1/8" with 1 3/8" SQ. BAR X22" LG (ALU. 6061-T6511)		
Section Modulus for 2"X2"X1/8"	0.552	in^3
Section Modulus for 1 3/8"X1 3/8"	0.433	in^3
Use = 2"X2"X1/8" With reinforcing insert inside post	0.985	in^3
(S_{REQ}) < S_2	**O.K.**	

TOP/BOTTOM RAIL:			
Max. Length	4 ft		
Moment (M)=	$wl^2/8$ =	100.00	lbs-ft
		1200	lbs-in
Sreq'd =	M/F_b =	0.15	in^3
S(rail) = 2"X2"X1/4" AL. CHANNEL		0.166	in^3
(S_{REQ}) < S(2"X2")		**OK use min. 2"X2"X1/4" AL. CHANNEL**	

Company:
Specifier:
Address:
Phone I Fax:
E-Mail:

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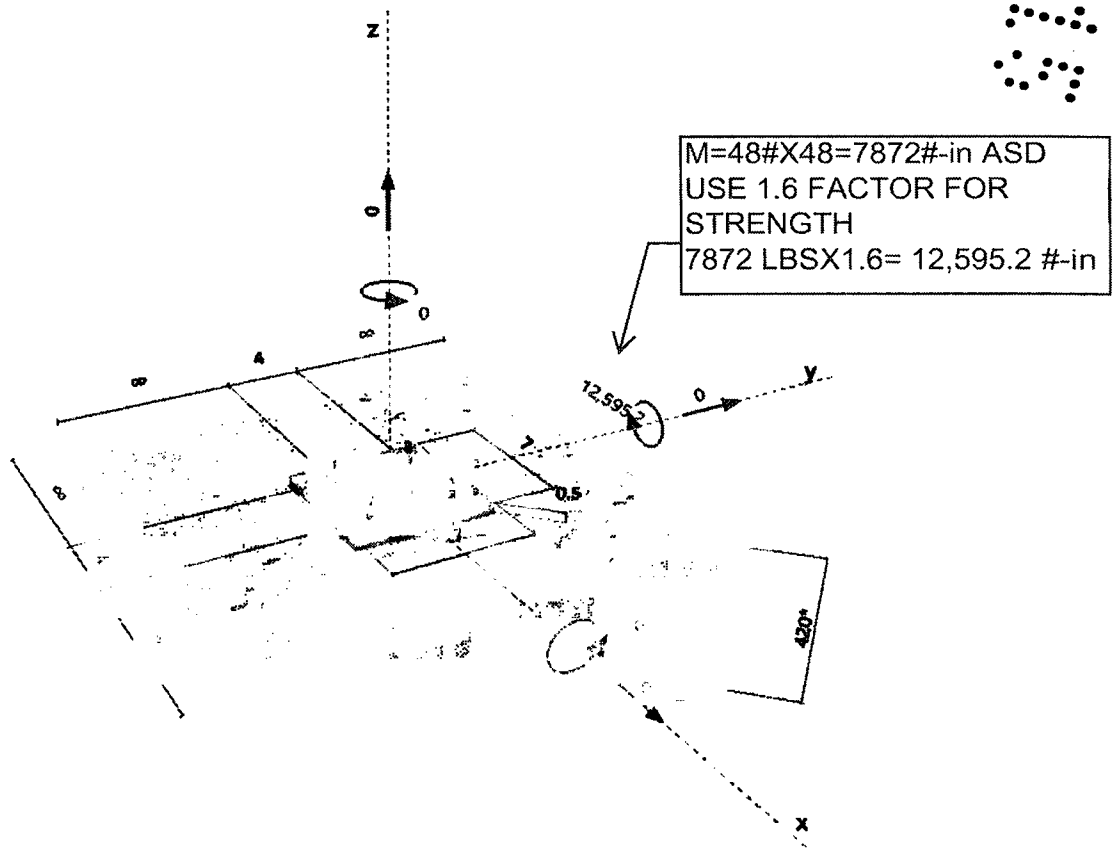
Specifier's comments:

1 Input data

SAFEset

Anchor type and diameter:	**HIT-HY 200 + HIT-Z-R 1/2**
Effective embedment depth:	$h_{ef,opti}$ = 2.750 in. ($h_{ef,limit}$ = 6.000 in.)
Material:	A4
Evaluation Service Report:	ESR-3187
Issued I Valid:	1/1/2015 | 3/1/2016
Proof:	Design method ACI 318-08 / Chem
Stand-off installation:	e_b = 0.000 in. (no stand-off); t = 0.500 in.
Anchor plate:	l_x x l_y x t = 7.000 in. x 7.000 in x 0.500 in.; (Recommended plate thickness: not calculated)
Profile:	Square HSS (AISC); (L x W x T) = 2.000 in. x 2.000 in. x 0.125 in.
Base material:	cracked concrete, 3000, f_c' = 3000 psi; h = 420.000 in., Temp. short/long: 32/32 °F
Installation:	hammer drilled hole, Installation condition: Dry
Reinforcement:	tension: condition B, shear: condition B; no supplemental splitting reinforcement present edge reinforcement: none or < No. 4 bar
Seismic loads (cat. C, D, E, or F)	no

Geometry [in.] & Loading [lb, in.lb]



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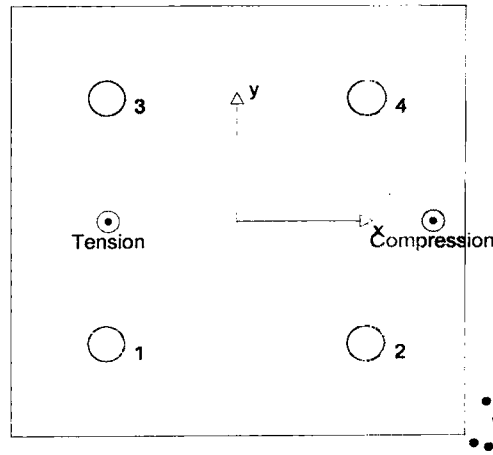
2 Load case/Resulting anchor forces

Load case: Design loads



Anchor reactions [lb]
Tension force: (+Tension, -Compression)

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	1256	0	0	0
2	7	0	0	0
3	1256	0	0	0
4	7	0	0	0

max. concrete compressive strain: 0.11 [‰]
max. concrete compressive stress: 488 [psi]
resulting tension force in (x/y)=(-1.979/0.000): 2526 [lb]
resulting compression force in (x/y)=(3.007/0.000): 2526 [lb]

3 Tension load

	Load N_{ua} [lb]	Capacity ϕN_n [lb]	Utilization $\beta_N = N_{ua}/\phi N_n$	Status
Steel Strength*	1256	8695	15	OK
Pullout Strength*	1256	7108	18	OK
Sustained Tension Load Bond Strength*	N/A	N/A	N/A	N/A
Concrete Breakout Strength**	2526	4113	62	OK

* anchor having the highest loading **anchor group (anchors in tension)

3.1 Steel Strength

N_{sa} = ESR value refer to ICC-ES ESR-3187
$\phi N_{steel} \geq N_{ua}$ ACI 318-08 Eq. (D-1)

Variables

n	$A_{se,N}$ [in.^{2}]	f_{uta} [psi]
1	0.14	94200

Calculations

N_{sa} [lb]
13377

Results

N_{sa} [lb]	ϕ_{steel}	ϕN_{sa} [lb]	N_{ua} [lb]
13377	0.650	8695	1256

3.2 Pullout Strength

$N_{pn} = N_p$ refer to ICC-ES ESR-3187
$\phi N_{pn} \geq N_{ua}$ ACI 318-08 Eq. (D-1)

Variables

N_p [lb]
10936

Calculations

-
-

Results

N_{pn} [lb]	$\phi_{concrete}$	ϕN_{pn} [lb]	N_{ua} [lb]
10936	0.650	7108	1256

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3.3 Concrete Breakout Strength

$N_{cbg} = \left(\frac{A_{Nc}}{A_{Nc0}}\right) \psi_{ec,N}\, \psi_{ed,N}\, \psi_{c,N}\, \psi_{cp,N}\, N_b$ ACI 318-08 Eq. (D-5)

$\phi\, N_{cbg} \geq N_{ua}$ ACI 318-08 Eq. (D-1)

A_{Nc} see ACI 318-08, Part D.5.2.1, Fig. RD.5.2.1(b)

$A_{Nc0} = 9 \cdot h_{ef}^2$ ACI 318-08 Eq. (D-6)

$\psi_{ec,N} = \left(\frac{1}{1 + \frac{2\, e_N}{3\, h_{ef}}}\right) \leq 1.0$ ACI 318-08 Eq. (D-9)

$\psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5 h_{ef}}\right) \leq 1.0$ ACI 318-08 Eq. (D-11)

$\psi_{cp,N} = \text{MAX}\left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5 h_{ef}}{c_{ac}}\right) \leq 1.0$ ACI 318-08 Eq. (D-13)

$N_b = k_c\, \lambda\, \sqrt{f'_c}\, h_{ef}^{1.5}$ ACI 318-08 Eq. (D-7)

Variables

h_{ef} [in.]	$e_{c1,N}$ [in.]	$e_{c2,N}$ [in.]	$c_{a,min}$ [in.]	$\psi_{c,N}$
2.750	1.979	0.000	∞	1.000

c_{ac} [in.]	k_c	λ	f'_c [psi]
4.125	17	1	3000

Calculations

A_{Nc} [in.^{2}]	A_{Nc0} [in.^{2}]	$\psi_{ec1,N}$	$\psi_{ec2,N}$	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [lb]
150.06	68.06	0.676	1.000	1.000	1.000	4246

Results

N_{cbg} [lb]	$\phi_{concrete}$	$\phi\, N_{cbg}$ [lb]	N_{ua} [lb]
6327	0.650	4113	2526

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4 Shear load

	Load V_{ua} [lb]	Capacity ϕV_n [lb]	Utilization $\beta_V = V_{ua}/\phi V_n$	Status
Steel Strength*	N/A	N/A	N/A	N/A
Steel failure (with lever arm)*	N/A	N/A	N/A	N/A
Pryout Strength (Bond Strength controls)*	N/A	N/A	N/A	N/A
Concrete edge failure in direction **	N/A	N/A	N/A	N/A

* anchor having the highest loading **anchor group (relevant anchors)

5 Warnings

- Load re-distributions on the anchors due to elastic deformations of the anchor plate are not considered. The anchor plate is assumed to be sufficiently stiff, in order not to be deformed when subjected to the loading! Input data and results must be checked for agreement with the existing conditions and for plausibility!
- Condition A applies when supplementary reinforcement is used. The Φ factor is increased for non-steel Design Strengths except Pullout Strength and Pryout strength. Condition B applies when supplementary reinforcement is not used and for Pullout Strength and Pryout Strength. Refer to your local standard.
- Design Strengths of adhesive anchor systems are influenced by the cleaning method. Refer to the INSTRUCTIONS FOR USE given in the Evaluation Service Report for cleaning and installation instructions
- The ACI 318-08 version of the software does not account for adhesive anchor special design provisions corresponding to overhead applications.
- Checking the transfer of loads into the base material and the shear resistance are required in accordance with ACI 318 or the relevant standard!

Fastening meets the design criteria!

Company:
Specifier:
Address:
Phone I Fax:
E-Mail:

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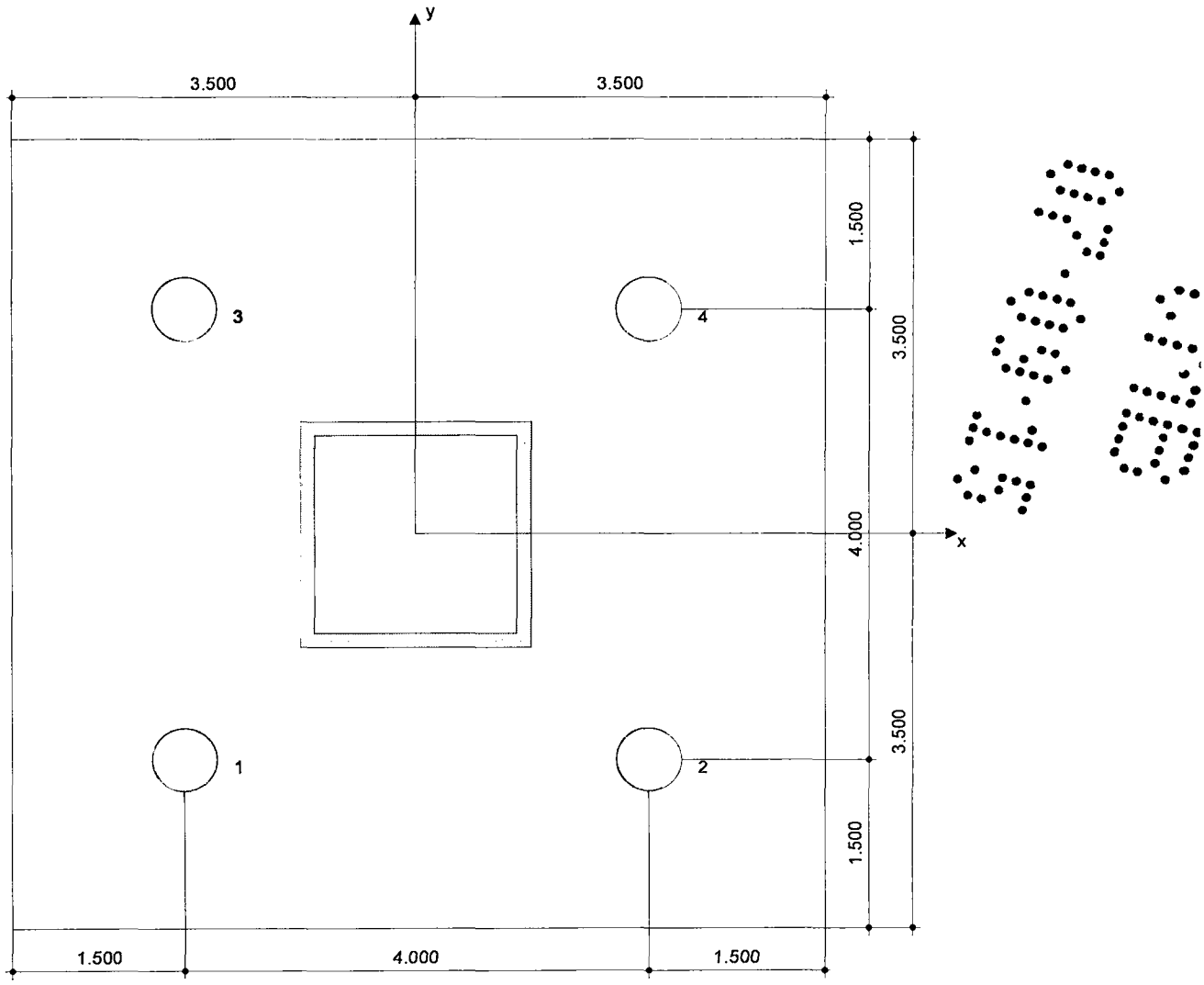
6 Installation data

Anchor plate, steel: -
Profile: Square HSS (AISC); 2.000 x 2.000 x 0.125 in.
Hole diameter in the fixture: d_f = 0.563 in.
Plate thickness (input): 0.500 in.
Recommended plate thickness: not calculated
Cleaning: No cleaning of the drilled hole is required

Anchor type and diameter: HIT-HY 200 + HIT-Z-R 1/2
Installation torque: 354.030 in.lb
Hole diameter in the base material: 0.563 in.
Hole depth in the base material: 3.750 in.
Minimum thickness of the base material: 5.000 in.



Coordinates Anchor in.

Anchor	x	y	c_{-x}	c_{+x}	c_{-y}	c_{+y}
1	-2.000	-2.000	-	-	-	-
2	2.000	-2.000	-	-	-	-
3	-2.000	2.000	-	-	-	-
4	2.000	2.000	-	-	-	-

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Phone I Fax:		Date:	7/4/2015
E-Mail:			

7 Remarks; Your Cooperation Duties

- Any and all information and data contained in the Software concern solely the use of Hilti products and are based on the principles, formulas and security regulations in accordance with Hilti's technical directions and operating, mounting and assembly instructions, etc., that must be strictly complied with by the user. All figures contained therein are average figures, and therefore use-specific tests are to be conducted prior to using the relevant Hilti product. The results of the calculations carried out by means of the Software are based essentially on the data you put in. Therefore, you bear the sole responsibility for the absence of errors, the completeness and the relevance of the data to be put in by you. Moreover, you bear sole responsibility for having the results of the calculation checked and cleared by an expert, particularly with regard to compliance with applicable norms and permits, prior to using them for your specific facility. The Software serves only as an aid to interpret norms and permits without any guarantee as to the absence of errors, the correctness and the relevance of the results or suitability for a specific application.
- You must take all necessary and reasonable steps to prevent or limit damage caused by the Software. In particular, you must arrange for the regular backup of programs and data and, if applicable, carry out the updates of the Software offered by Hilti on a regular basis. If you do not use the AutoUpdate function of the Software, you must ensure that you are using the current and thus up-to-date version of the Software in each case by carrying out manual updates via the Hilti Website. Hilti will not be liable for consequences, such as the recovery of lost or damaged data or programs, arising from a culpable breach of duty by you.

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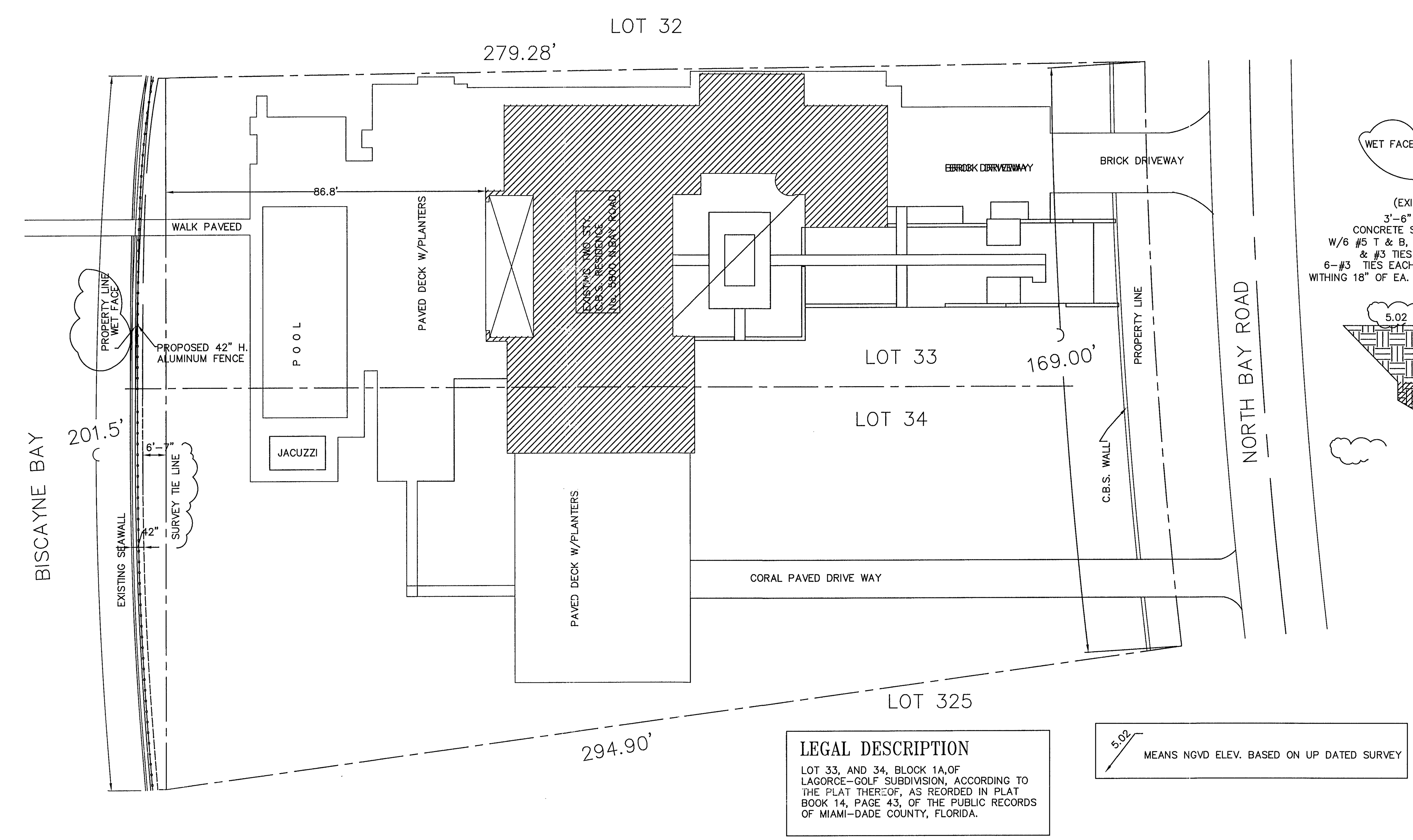
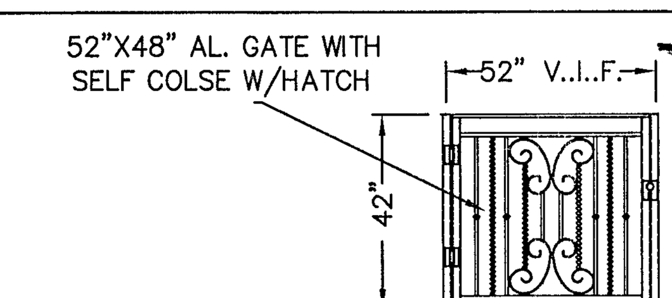


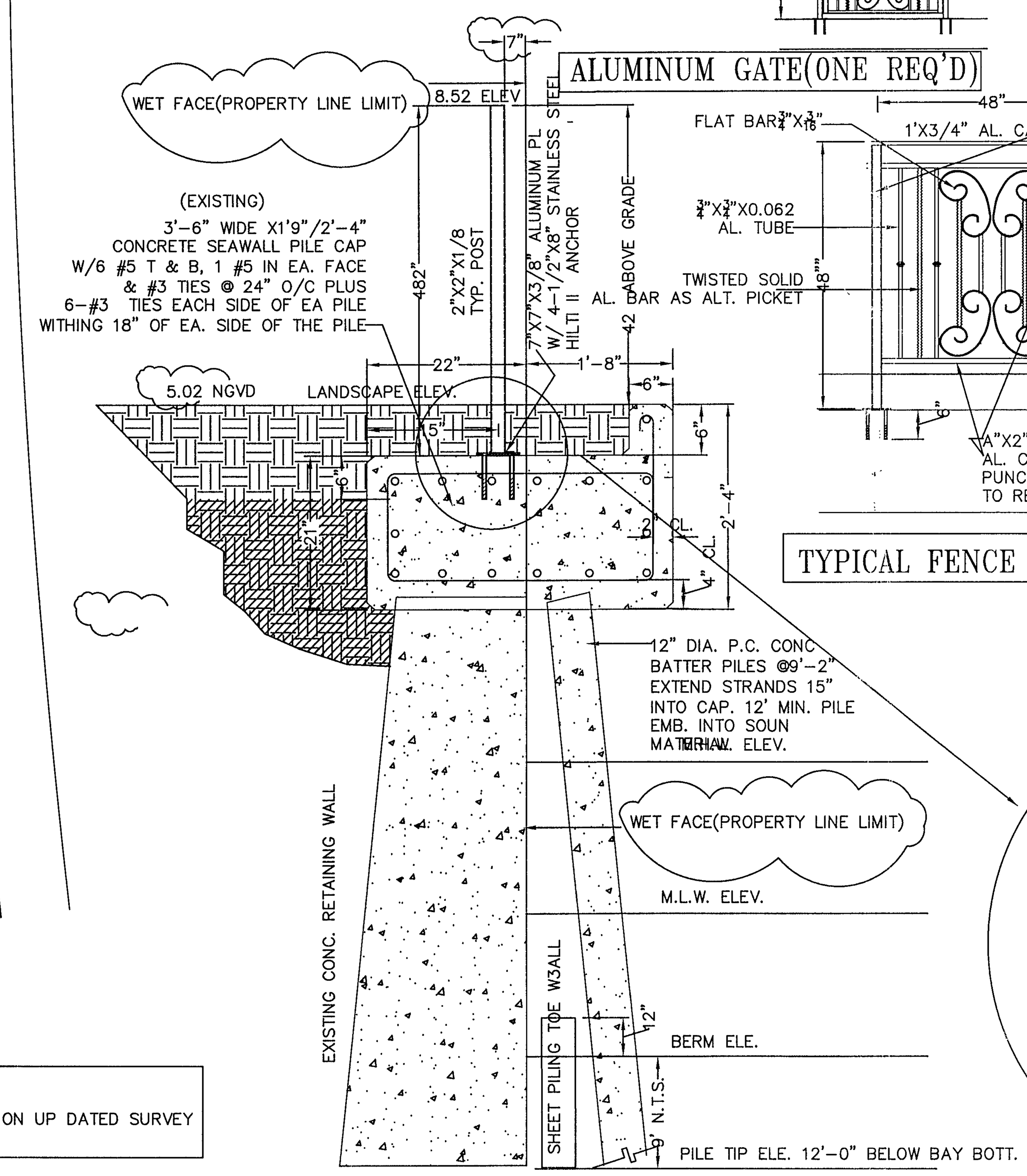
LEGAL DESCRIPTION

LOT 33, AND 34, BLOCK 1A,OF LAGORCE-GOLF SUBDIVISION, ACCORDING TO THE PLAT THEREOF, AS REORDED IN PLAT BOOK 14, PAGE 43, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

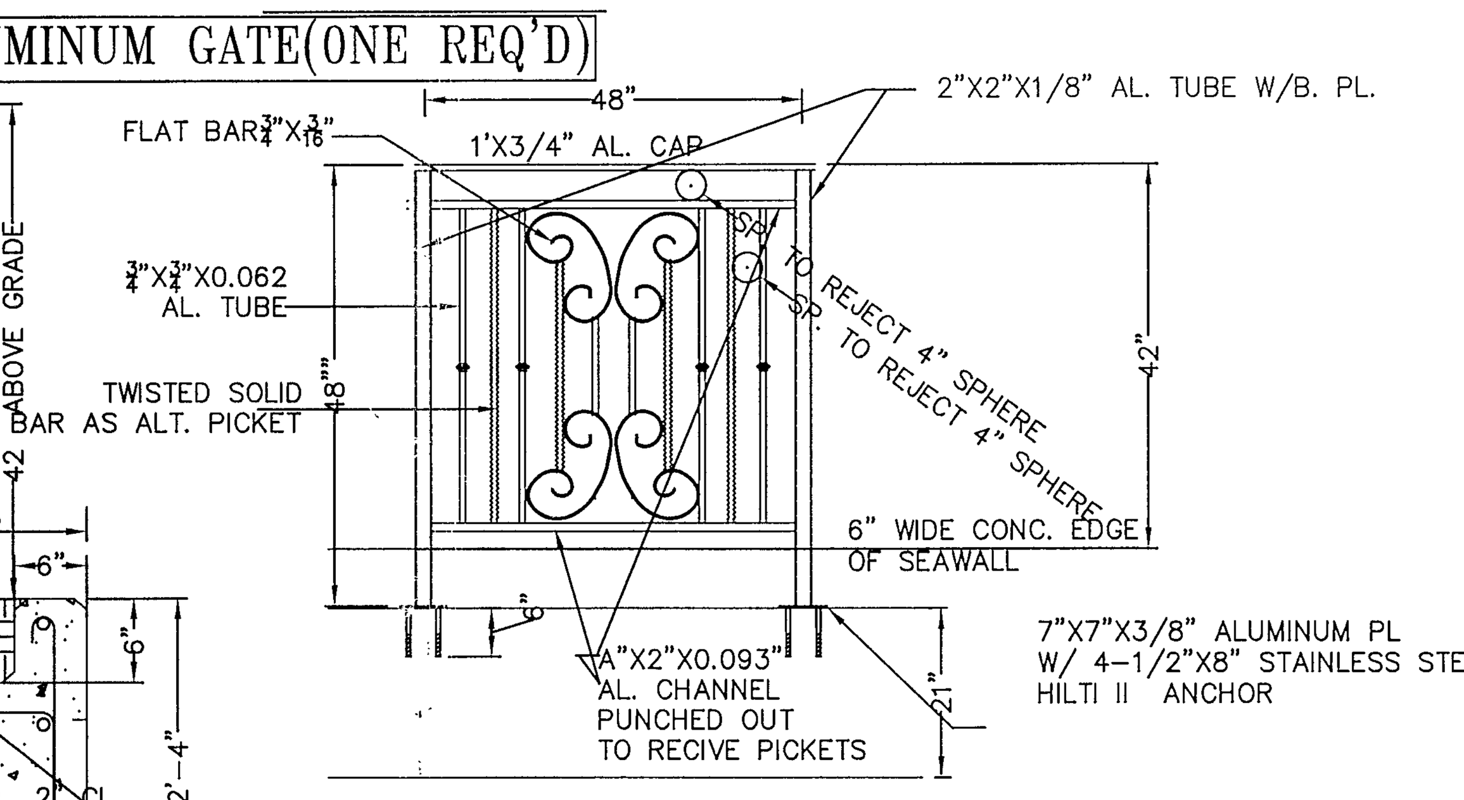
5.02 MEANS NGVD ELEV. BASED ON UP DATED SURVEY



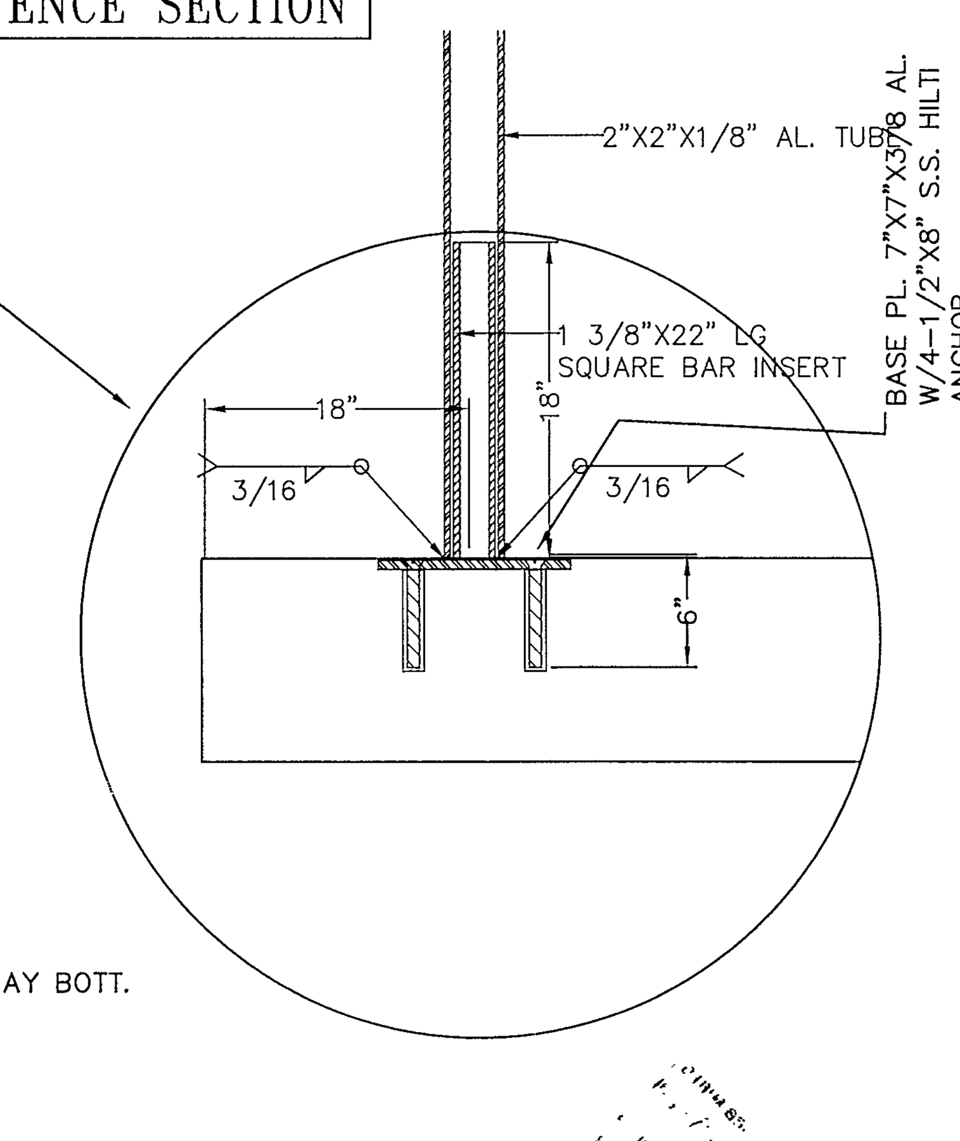
ALUMINUM GATE(ONE REQ'D)

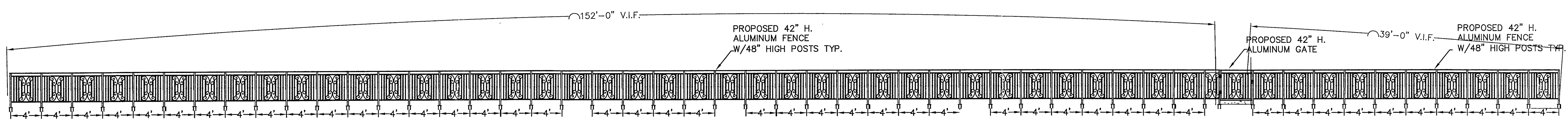


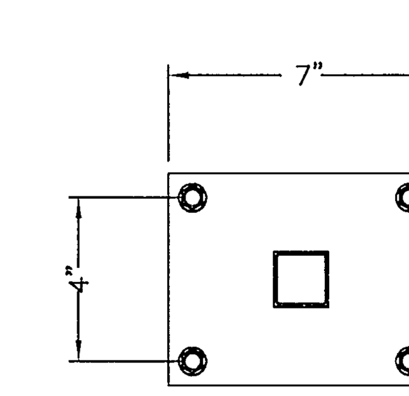
SECTION "A"- "A"



TYPICAL FENCE SECTION

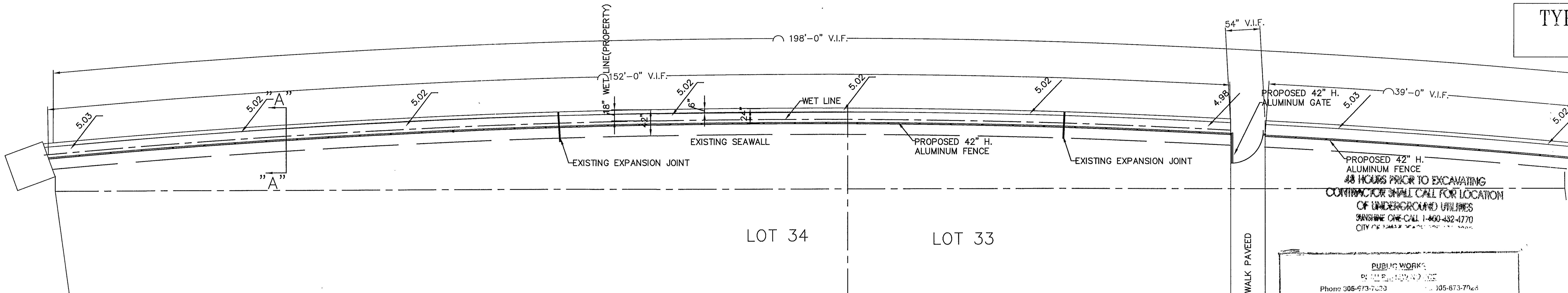






TYPICAL BASE PLATE @ POST

7"X7"X3/8" ALUMINUM PL W/ 4-1/2"X8" STAINLESS STEEL HILTI II ANCHOR



48 HOURS PRIOR TO EXCAVATING CONTRACTOR SHALL CALL FOR LOCATION OF UNDERGROUND UTILITIES
SUNSHINE ONE-CALL 1-800-432-4770

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

BUILDING:
ZONING: [signature] 8/4/15
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
FLOOD:
PUBLIC WORKS: [signature] 8/4/15
STRUCTURAL: [signature] 8-4-15
ELEVATOR:
ROOFING:

NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the Public Records of this County, and there may be additional permits required from other governmental entities such as water management districts, state agencies, or federal agencies. The City of Miami Beach assumes no responsibility for any results from these plans which are in violation of Federal, State, and Local Laws, Rules, ...

PUBLIC WORKS
Phone 305-673-7080 305-673-7028

THIS PLAN REVIEW CONSTITUTES APPROVAL FOR OBTAINING BUILDING PERMIT ONLY.

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

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

Approved/Reviewed By: [signature] Date: 8/4/15

NOTE:
STRUCTURAL ALUMINUM TUBE, PIPE AND BAR SHALL BE IN ACCORDANCE WITH ASTM 429, ALLOY 6061-T6. END RAIL 90° BENDS AND CORNER BENDS WITH MAXIMUM 7'-0" POST SPACING. POSTS AND END RAILS SHALL BE FABRICATED AND INSTALLED PLUMB, -1" TOLERANCE WHEN MEASURED AT 3'-6" ABOVE THE SUPPORT.

ALUMINUM SURFACES IN CONTACT WITH CONCRETE OF MASONARY SHALL BE PROTECTED WITH HEAVY-BODIED BITUMINOUS PAINT OR METHACRYLATE LACQUER

ALL WELDS TO BE DONE BY CERTIFIED WELDER PER AWS D.1.1.ALL WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE, FILLER METAL SHALL BE EITHER ER5183, ER5356 OR ER5556.

APPLICABLE CODES	DESIGN CRITERIA
1. FLORIDA BUILDING CODE 2014 2. A.S.C.E. 7-10 FOR WIND ANALYSIS AND DESIGN.	1. BASIC WIND VELOCITY: 175 MPH 2. EXPOSURE: D 3. DESIGN LOADS: LIVE LOAD= 50 PSF OR P=200 LBS
MATERIALS	**WELDING**
CONCRET3 SHALL REACH A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI IN 28 DAYS. ASTM C 476.	ALL CONNECTIONS SHALL BE WELDED W/ ROUND 3/16 CAT FILLET TYPICAL

DRAWN BY:
ART SECURITY METAL CORP.
4720 SW 94 CT.
MIAMI, FL. 33165
(305) 846-9042

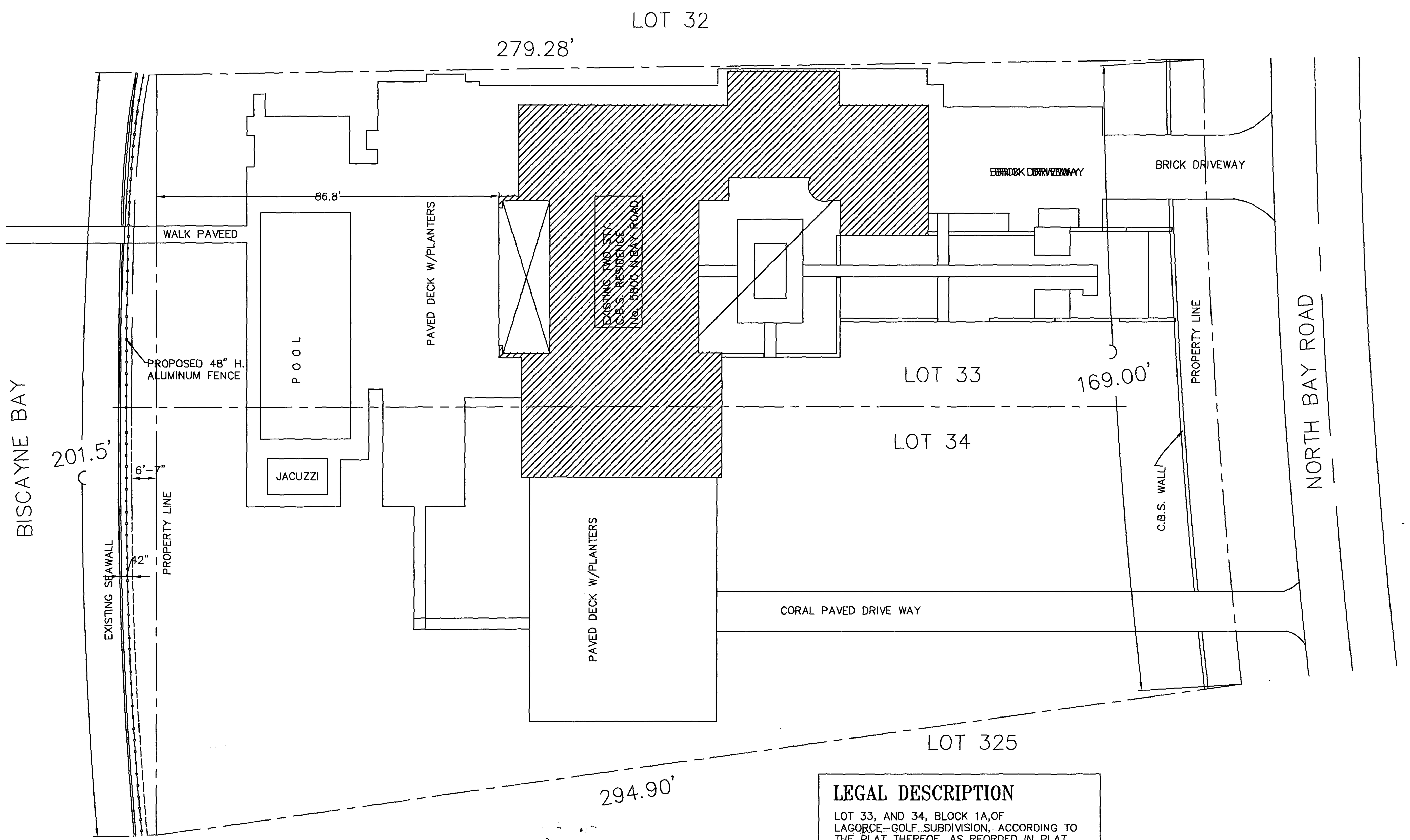
VICTOR HERNANDEZ FL P.E. ? 72387
SEAL
VICTOR HERNANDEZ LICENSE No. 72387 STATE OF FLORIDA PROFESSIONAL ENGINEER

HERNANDEZ STRUCTURAL DESIGN
STRUCTURAL CONSULTAS, INSPECTIONS, INVESTIGATIONS
Victor Hernandez - P.E. # 72387 C.A. 29634
8020 HAMPTON BLVD, UNIT 314
NORTH LAUDERDALE, FL 33068
Tel: 954-247-1389 Cell: 754-422-8796

SEAWALL GUARDRAIL
AT: 5800 NORTH BAY ROAD
MIAMI, FLORIDA
FOR: PONS STIMATING CONSTRUCTION
BY: GALECKI GROUP LLC

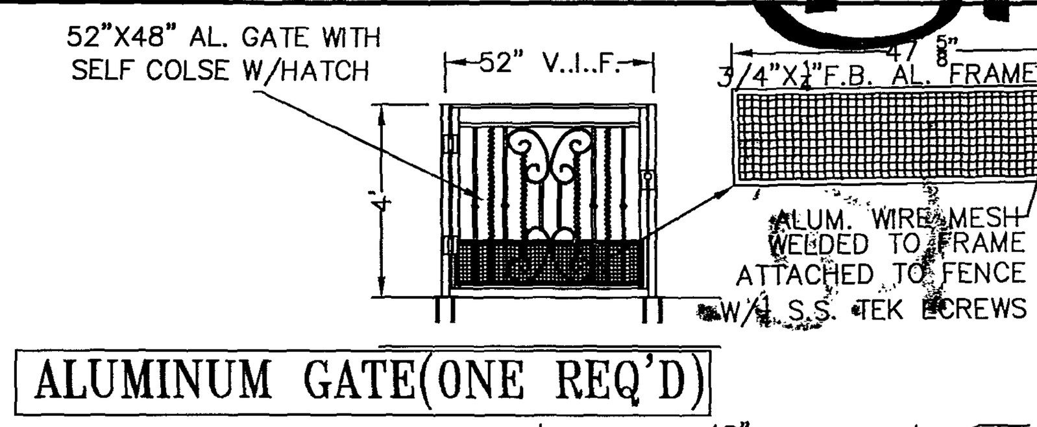
DRAWN BY: J.H.
CHECKED BY: V.H.
DATE: 02/10/15
SHEET NO.
S-1
1 OF 1

B1505266

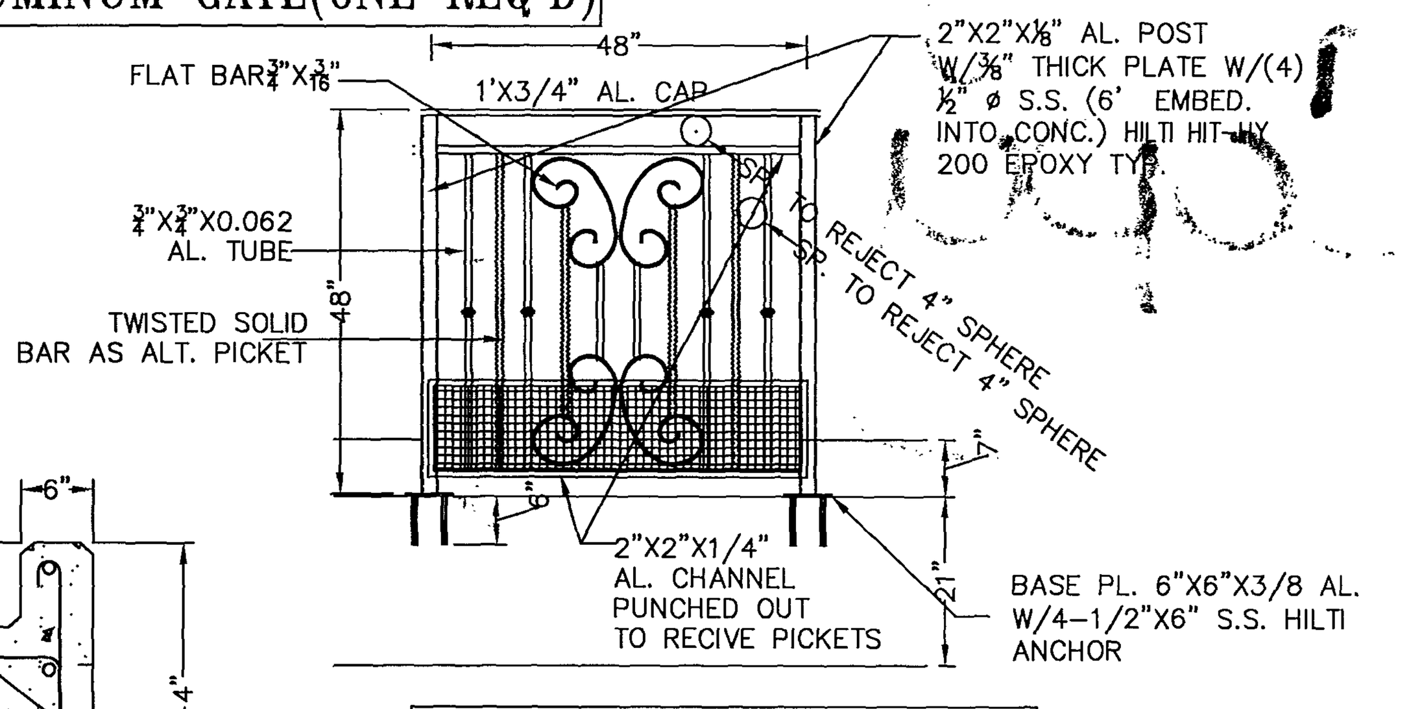


LEGAL DESCRIPTION

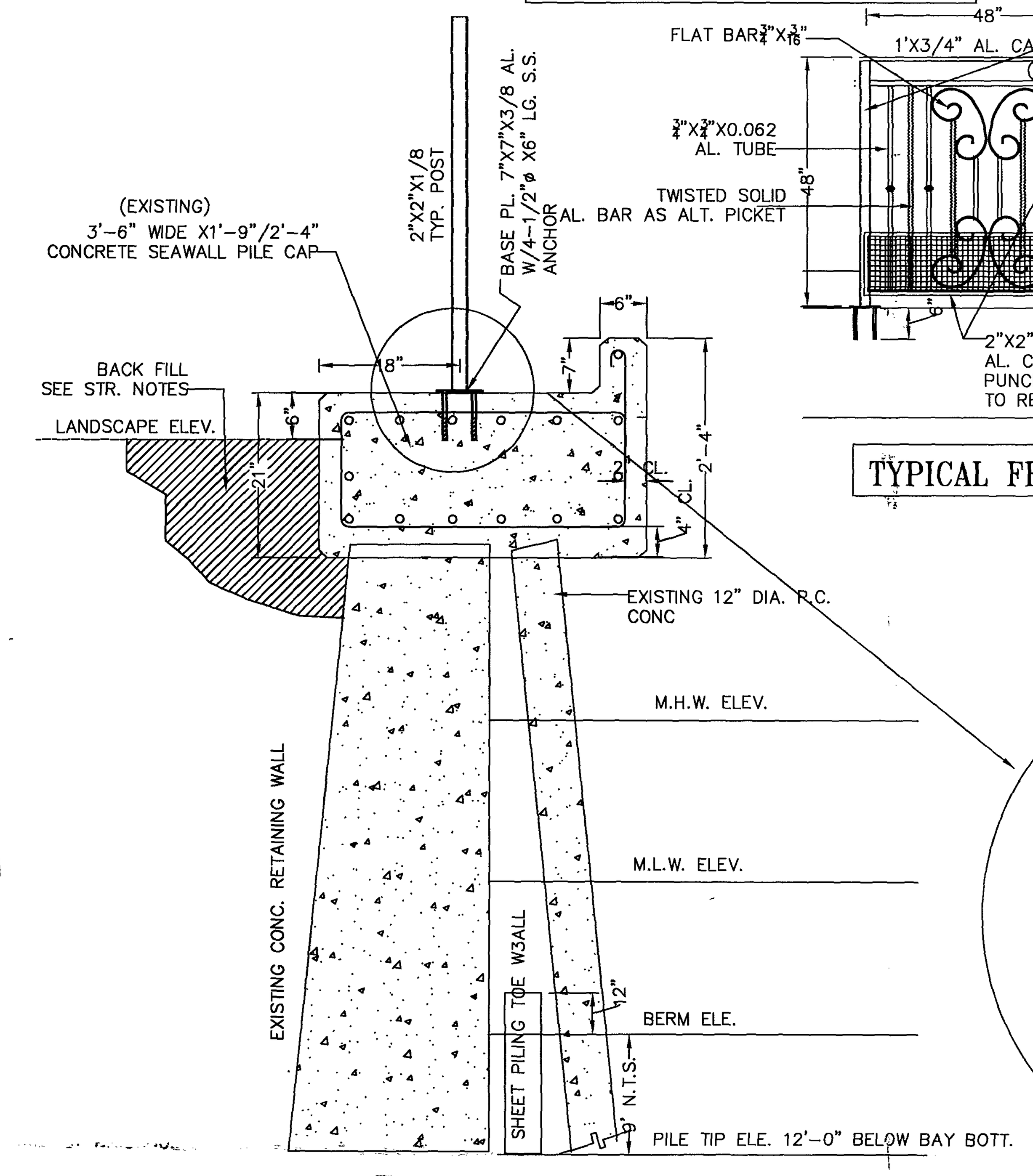
LOT 33, AND 34, BLOCK 1A,OF LAGORCE-GOLF SUBDIVISION, ACCORDING TO THE PLAT THEREOF, AS REORDED IN PLAT BOOK 14, PAGE 43, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.



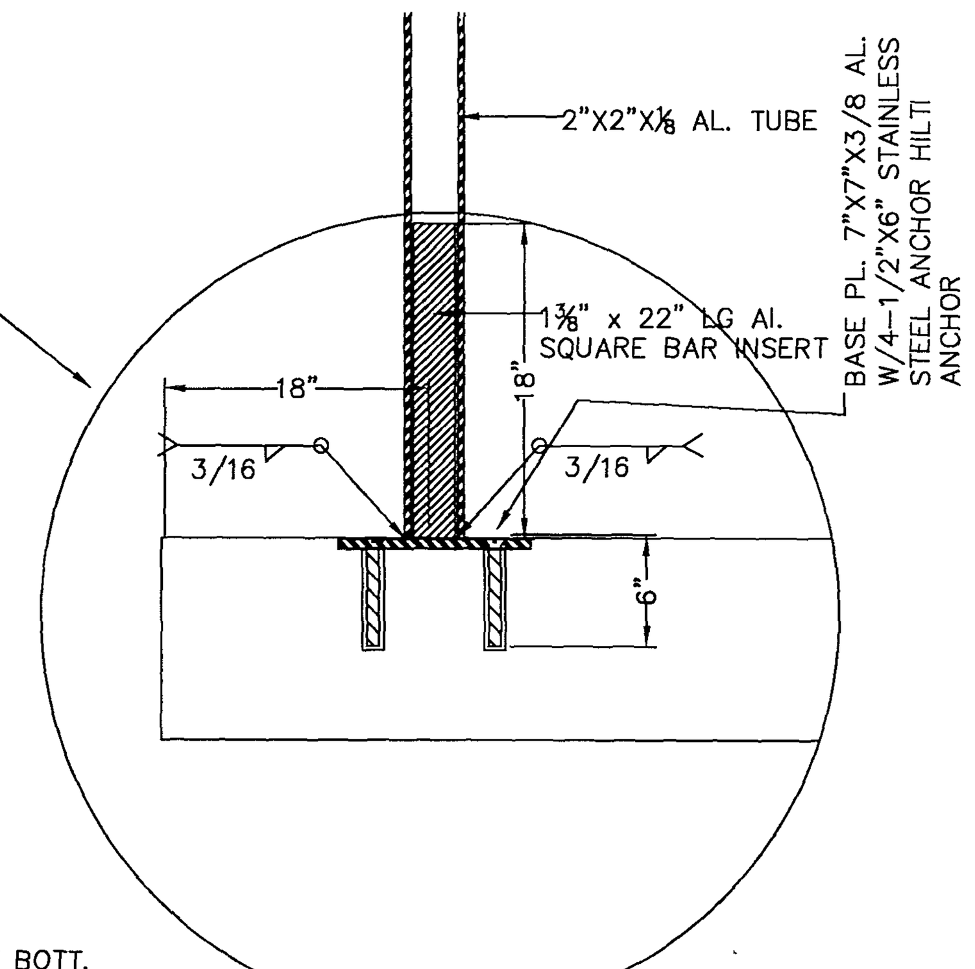
ALUMINUM GATE(ONE REQ'D)

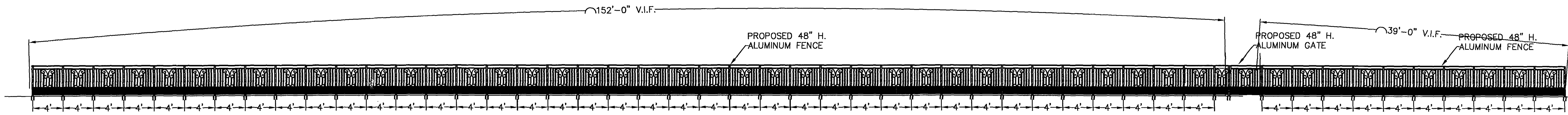


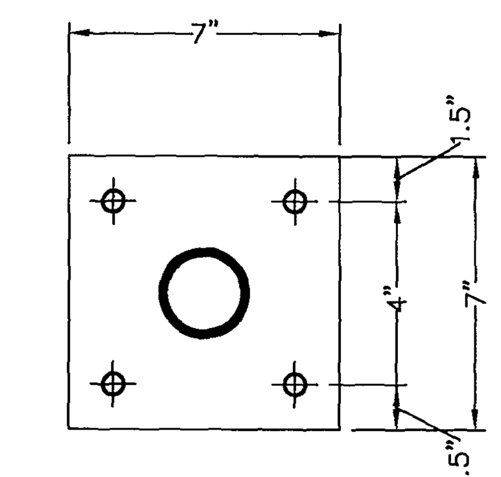
TYPICAL FENCE SECTION



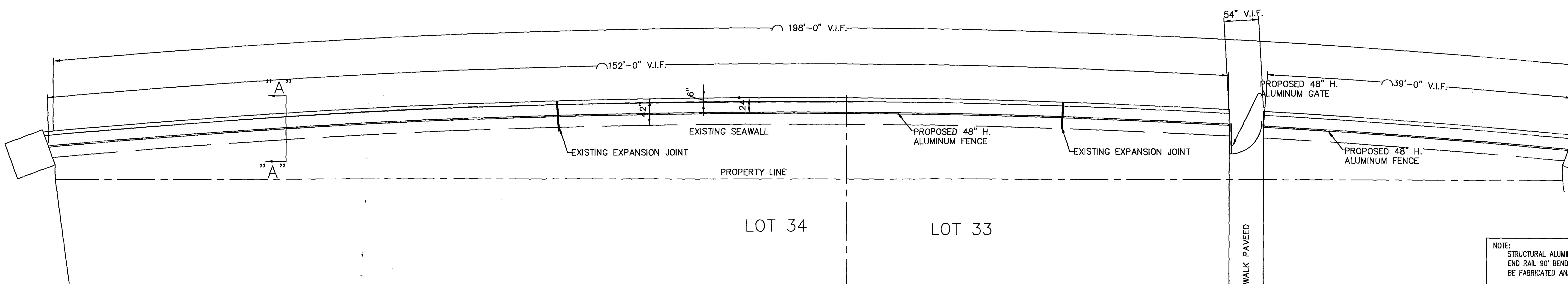
SECTION "A"- "A"







TYPICAL BASE PLATE @ POST



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

BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
FLOOD:
PUBLIC WORKS:
STRUCTURAL: 7/9/15
ELEVATOR:
ROOFING:

NOTE:

STRUCTURAL ALUMINUM TUBE, PIPE AND BAR SHALL BE IN ACCORDANCE WITH ASTM 429, ALLOY 6061-T6. END RAIL 90° BENDS AND CORNER BENDS WITH MAXIMUM 7'-0" POST SPACING. POSTS AND END RAILS SHALL BE FABRICATED AND INSTALLED PLUMB, -1" TOLERANCE WHEN MEASURED AT 3'-6" ABOVE THE SUPPORT.

ALUMINUM SURFACES IN CONTACT WITH CONCRETE OF MASONARY SHALL BE PROTECTED WITH HEAVY-BODIED BITUMINOUS PAINT OR METHACRYLATE LACQUER

ALL WELDS TO BE DONE BY CERTIFIED WELDER PER AWS D.1.1.ALL WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE, FILLER METAL SHALL BE EITHER ER5183, ER5356 OR ER5556.

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VICTOR HERNANDEZ P.E. # 72387

SEAL

HERNANDEZ STRUCTURAL DESIGN
STRUCTURAL CONSULTAS, INSPECTIONS, INVESTIGATIONS
Victor Hernandez P.E. # 72387 C.A. 29634
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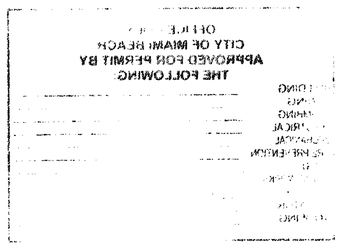
5800 N. Bay Rd.
Office Copy



MIAMIBEACH

B1505970 APP

Building Department
1700 Convention Ctr Drive, 2nd Floor
Miami Beach, Florida 33139
Tel: (305) 673-7610
Fax: (305) 673-7857

WORK PERMIT

08-17-2015

Activity Number: B1505970

Status: APPROVED
BUILHAMA

Issued By:

Site Address: 5800 N BAY RD MBCH
Parcel #: 32150030270

Applied: 08/17/2015
Approved: 08/17/2015
Completed:
To Expire: 02/13/2016

Valuation: $11,150.00

Applicant: PONS ESTIMATING SERVICES, INC.
80 NW 22ND AVE
MIAMI, FL 33145
305-392-1153

Property Owner: MARK J GAINOR &W ELYSE S
MARK J GAINOR TRUSTEE
5800 NORTH BAY ROAD 33140

Description: **METAL ENTRANCE GATES**
Inspector Area: C Class Code: R3

Total of All Fees:	$329.66
Total of Payments:	$329.66
Balance Due:	$0.00

PAID
AUG 17 2015
CITY OF MIAMI BEACH
BUILDING DEPARTMENT

[BSBLDPRM14]

MIAMIBEACH

Building Department
1700 Convention Center Drive, 2nd Floor
Miami Beach, Florida 33139
Office: 305.673.7610 Fax: 305.673.7857
http://www.miamibeachfl.gov/building/

Permit Application

Office Use Only
Submittal Date:
Permit Number: B1505970

Applicant Information (Blue or Black Ink Only)

Property Address	Unit Number	Parcel/Folio Number
5800 North Bay Rd		3215003o270

If sub-permit or revision, please indicate the Master Permit Number	Elevator I.D. number	If associated with violation, indicate BV#	Please note that outstanding expired permits must be resolved prior to the issuance of a work permit

Permit Type (select one)		Permit Request (select all that apply)		Property Information (select one)
☒ Building	☐ Demolition - Year built_____	☒ New Permit	☐ Permit Extension	☐ Commercial
☐ Electrical	☐ Generator	☐ Change of Contractor	☐ Permit Renewal	☐ Multi-Family Residential
☐ Mechanical	☐ Special Event	☐ Change of Architect/Engineer	☐ Permit Revision	☒ Residential: Single-Family Residential or Duplex
☐ Plumbing	☐ Fire	☐ LEED	☐ Change of Use	**Total Value of Work**
☐ Roofing	☐ Elevator		☐ Private Provider	$
☐ Phased Permit			☐ City Project	

	New Construction/Addition	Alteration/Reconfiguration of Space
Square Footage	SF	34 LF SF
Value of Work	$	$ 11,150

☐ A-1 Assembly (Theater/ Concert Hall)	☐ M -Department Store / Drug Store	☒ R-3 Residential (Dwelling/ Custom Homes)
☐ A-2 Assembly (Restaurant/Night Club/ Bar)	☐ M -Gas Station	☐ R-4 Residential (Assisted Living 6-16 person)
☐ A-3 Assembly (Worship/Amusement/ Arcade Community Hall	☐ M – Retail/ Warehouse	☐ S-1 Storage (Mod. Hazard (Repair Garage)
☐ B – Business	☐ R-1 Residential Transient (Boarding House/ Hotel/Motel)	☐ S-2 Storage (Low Hazard (excluding Parking Garage)
☐ D/E -Daycare & Educational	☐ R-2 Residential Permanent (Apartment/Dormitory/ Timeshare	☐ S-2 Storage (Parking Garage)
☐ I-1 Institutional (Ambulatory)		
☐ I-2 Institutional (Non Ambulatory)		

Description of Work

Provide a summary of work to be done.

Metal Entrance Gates

Responsible Parties

Property Owner

X Phil Collins

Name: Phil Collins
Address: 5800 N. Bay Rd Suite:
City: Miami Beach State: Fl Zip Code: 33140
Driver's License/ State Identification Number:
E-Mail Address:
Daytime phone: Cell Phone:

Contractor

Name: Pons Estimating Services
Address: 80 NW 22 Ave Suite:
City: Miami State: Fl Zip Code: 33125
State Identification Number/License: CGC 1518735
E-Mail Address: mapons@ponsestimating.com
Daytime phone: 305 392 1153 Cell Phone:

Architect

Name:
Address: Suite:
City: State: Zip Code:
Professional License Number:
E-Mail Address:
Daytime phone: Cell Phone:

Structural Engineer

Name:
Address: Suite:
City: State: Zip Code:
Professional License Number:
E-Mail Address:
Daytime phone: Cell Phone:

Notice & Certification

This application is hereby made to obtain a permit to do the work and installations as indicated. I certify that all work will be performed to meet the standards of all laws and construction regulations in this jurisdiction. I understand that a **separate permit** must be secured for **Electrical, Elevator, Fire, Mechanical, Plumbing, Signs, Wells, Pools, Furnaces, Boilers, Heaters, Tanks, Air Conditioners**, etc.

Owner's Affidavit: I certify that all the forgoing information is correct. Owner Certifies that the aforementioned Contractor has the authorization to perform the work as specified above.

Lessee's Affidavit: Lessee certifies that he has full consent and authorization from owner of subject property to perform the abovementioned work and to hire above captioned contractor.

In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as the Environmental Division of Miami-Dade County; Permitting, Environment and Regulatory Affairs; Water & Sewer Department; Department of Environmental Protection; South Florida Water Management District; Miami-Dade County Impact Fee water management districts; state agencies; and/or federal agencies.

Under penalties of perjury, I declare that to the best of my knowledge, the facts stated in this document are true. Any information found to be false may cause the revocation and/or denial of the permit and/or Certificate of Occupancy.

OWNER'S ELECTRONIC SUBMISSION STATEMENT: Under penalty of perjury, I declare that all the information contained in this building permit application is true and correct.

☐ **Owner/Lessee for new permits** (Documentation establishing ownership may be requested)
☐ **Master Permit Contractor of Record** (For sub-permit change of contractor)

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT IS REQUIRED FOR ANY WORK WITH COST EXCEEDING $2500.00.

Phil Collins
Print Name

X
Signature

STATE OF FLORIDA , COUNTY OF MIAMI-DADE

Sworn to and subscribed before me this 17 day of August 2015 by Phil Collins
☑ Personally
☐ Produced Identification – Type of Identification _____

Angela V. Bassas
Signature of Notary Public

(SEAL)

ANGELA V. BASSAS
MY COMMISSION #FF225614
EXPIRES: APR 29, 2019
Bonded through 1st State Insurance

☐ **Contractor** (Proof of licensure may be required if not on file)

Mario Pons
Print Qualifier's Name

Qualifier's Signature

STATE OF FLORIDA , COUNTY OF MIAMI-DADE

Sworn to and subscribed before me this 17 day of August 2015 by Mario Pons
☑ Personally
☐ Produced Identification – Type of Identification _____

Angela V. Bassas
Signature of Notary Public

(SEAL)

ANGELA V. BASSAS
MY COMMISSION #FF225614
EXPIRES: APR 29, 2019
Bonded through 1st State Insurance

MIAMIBEACH

Building Department
1700 Convention Center Drive
Miami Beach, Florida 33139
Tel: 305-673-7610
www.miamibeachfl.gov

CONSTRUCTION COST AFFIDAVIT

For Office Use Only

Permit/Process No	B1505970
Date of Submittal	8/17/15

I Phil Collins, acting as agent (owner, registered agent, legal representative) do hereby attest that the construction costs indicated herein are accurate for the construction project located at:

5800 North Bay Road.

Master Permits:

Total project cost: $11,150

Building cost (excludes roofing, windows, railings and MEP) $: _____

Stand alone and sub permits

Roofing $: _____

Windows $: _____

Railings $: _____

Electrical $: _____

Mechanical $: _____

Plumbing $: _____

Registered Owner: 5800 North Bay Rd, Miami, LLC / Phil Collins

Signature of Owner/Agent: X _____

Printed Name: Phil Collins

STATE OF FLORIDA
COUNTY OF Miami-Dade

The foregoing instrument was acknowledged before me this 17 day of August, 2015 by Phil Collins, who is personally known to me or who has produced _____ as identification and who has taken an oath.

Angela V. Bassas
Notary Public, State of Florida

Angela Bassas
Printed Name

ANGELA V. BASSAS
MY COMMISSION #FF225614
EXPIRES: APR 29, 2019
Bonded through 1st State Insurance

Commission Number: FF225614 My Commission Expires: April 29, 2019

Revised November 2014

HSD

HERNANDEZ STRUCTURAL DESIGN

2014 FLORIDA BUILDING CODE

Structural calculations by:
Victor Hernandez
PE # 72387
Project # **ENTRANCE GATES AT 5800 NORTH BAY ROAD MIAMI, FL**
7-20-2015

Rational Analysis and Engineering Design Calculations

City of Miami, Florida

TABLE OF CONTENTS

VICTOR HERNANDEZ
LICENSE
No. 72387
STATE OF FLORIDA
PROFESSIONAL ENGINEER

8500 NW 26 DR, Coral Springs fl 33065 PH:754-422-8796,

MARK

CHECK EXISTING FOOTING FOR OVERT.

LOAD = 200#

ASSUME LOAD AT EDGE OF DOOR.

M = 200# x 7' = 1400 # - ft. OVERT. MOMENT.

LOAD AGAINST OVERT.:

PIER = 1.33 x 65 #/ft x 2 x 7' = 1210 #

FOOTING = 2.5' x 2.5' x 1 x 110 = 938 #

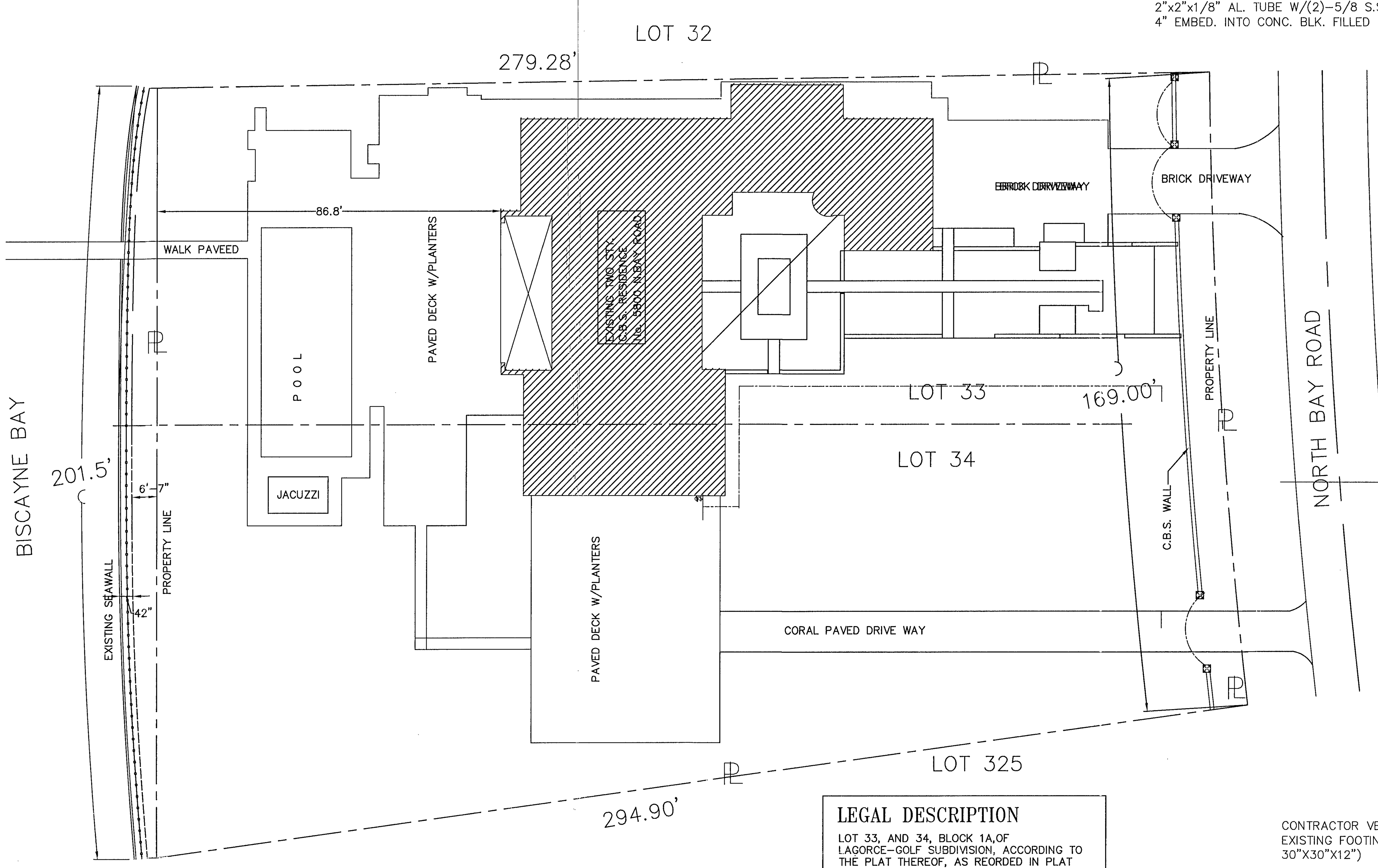
SOIL = 0.67 x (2.5 x 2.5 - 1.33 x 1.33) 120 = 360 #

2508 #

M_R = 1.25' x 2508 = 3135 # - ft

$\frac{M_R}{\text{MOVE}} = \frac{3135}{1400} = 2.2$ S.F. OK

BI505970



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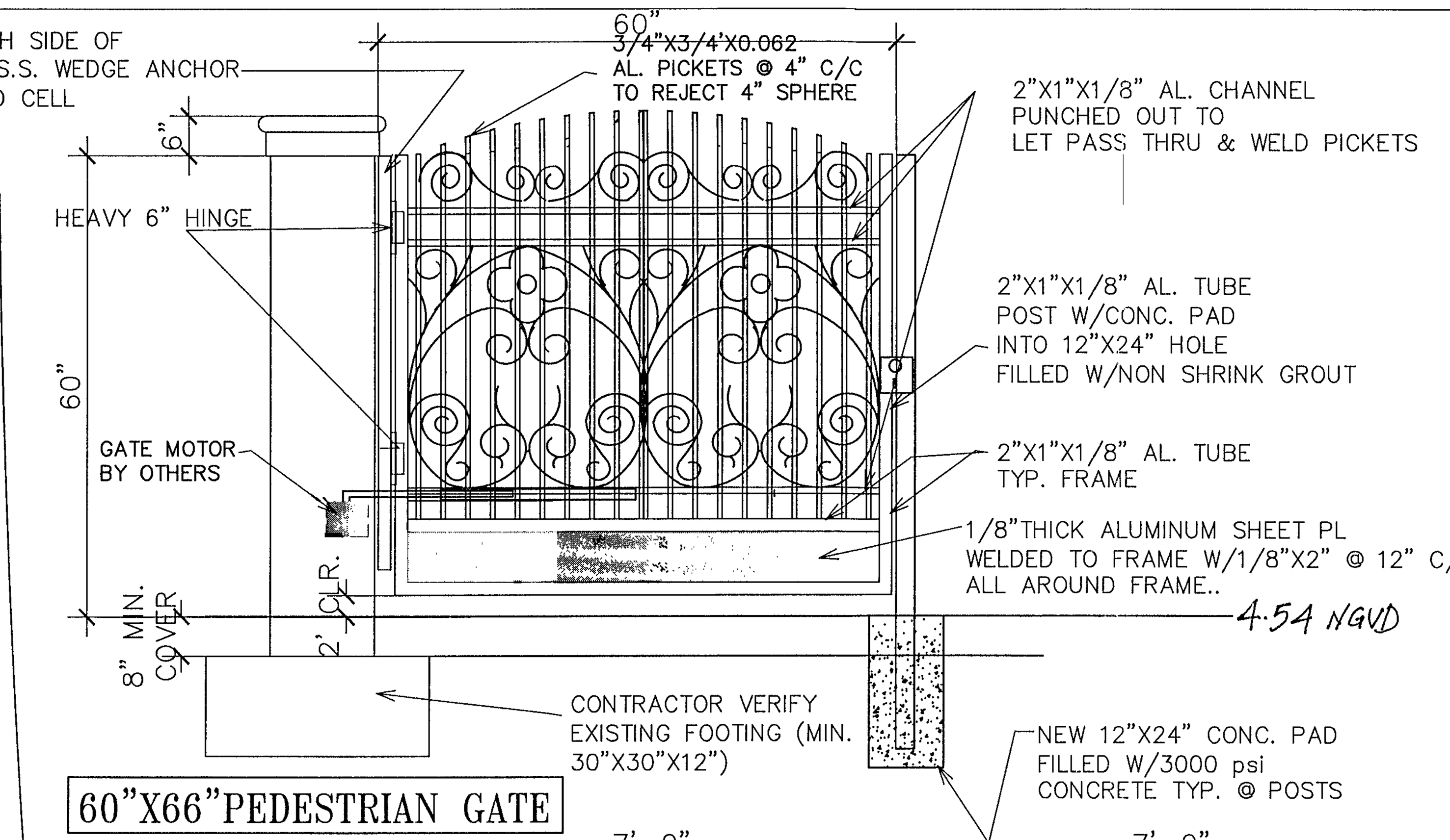
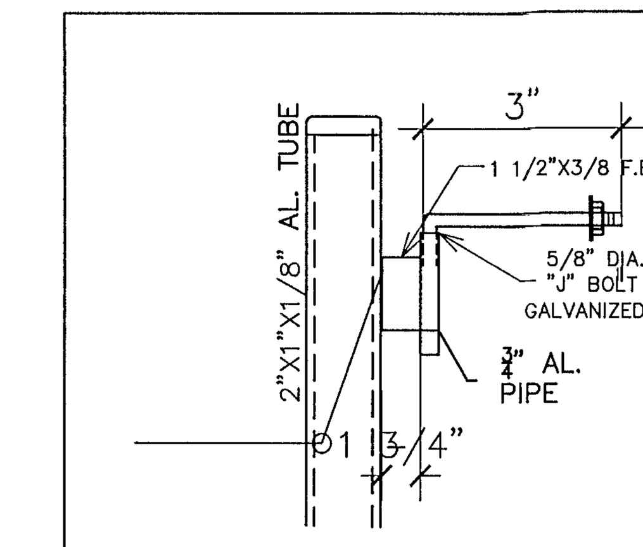


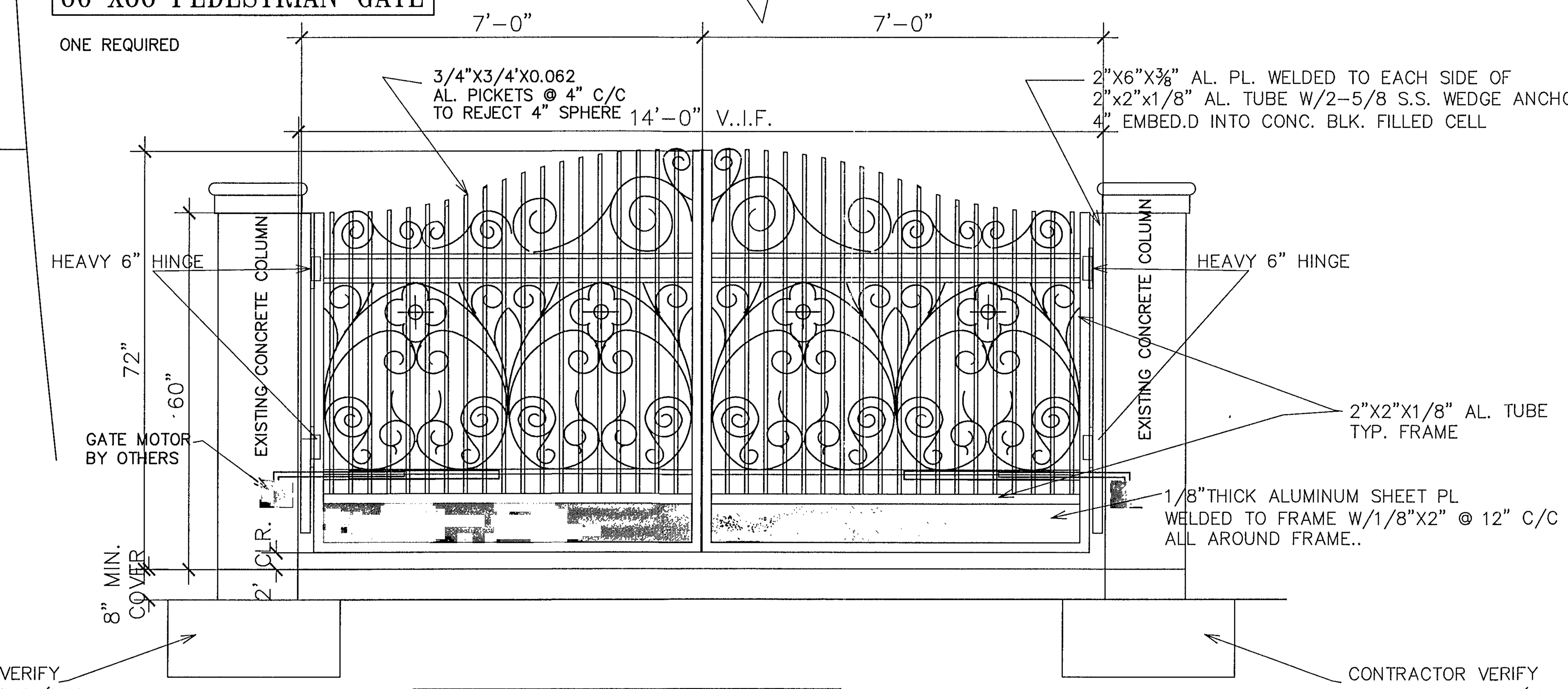
60"X66"PEDESTRIAN GATE

ONE REQUIRED



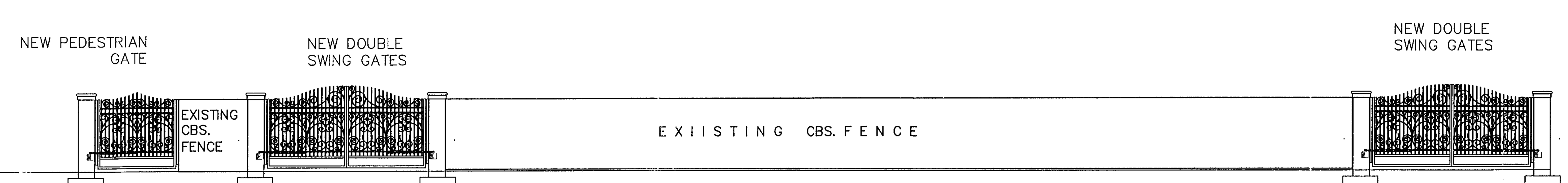
TYPICAL HINGE

AT AL. COLUMN

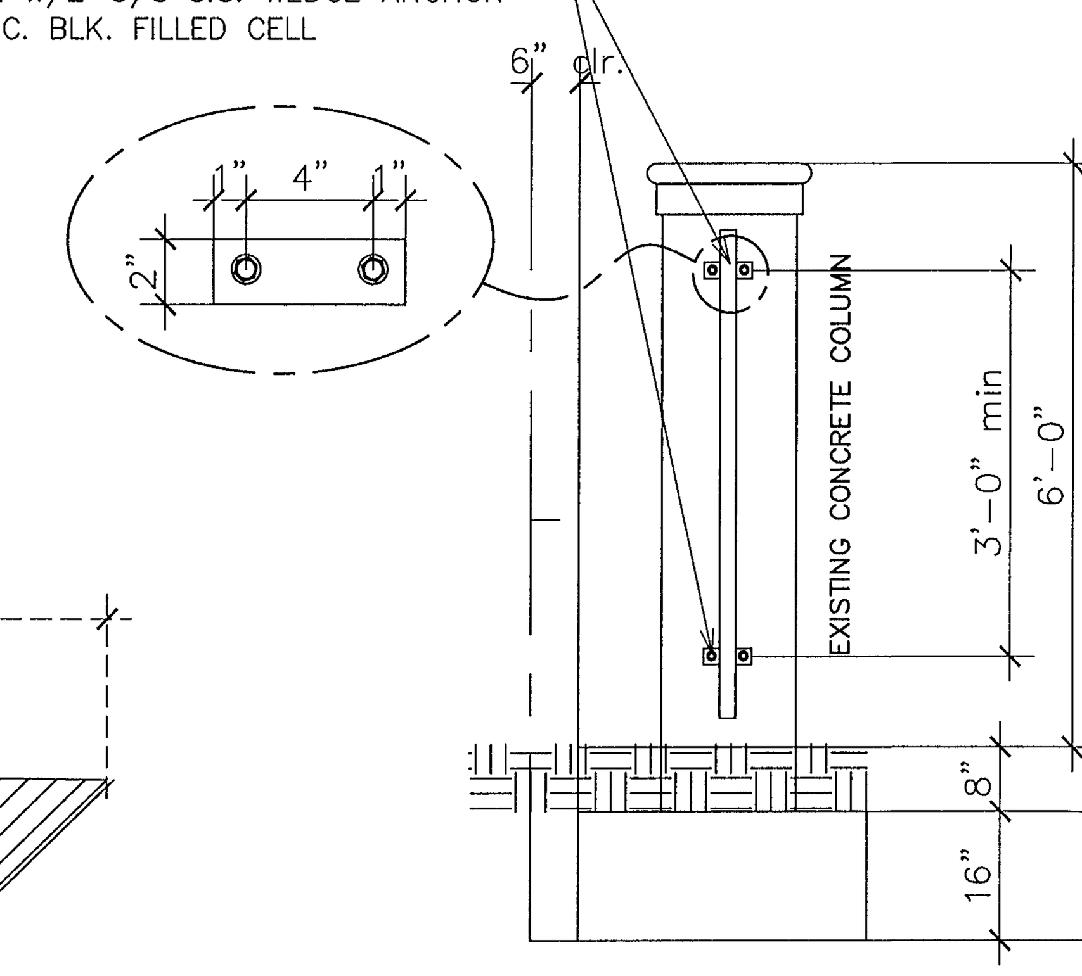


60"X72"DOUBLE SWING GATE

TWO REQUIRED



FENCE AND GATES ELEVATION



TYP. FENCE/GATE SUPPORT

NOTE: EDGE OF CONCRETE FOOTING FOR POSTS TO BE INTO PROPERTY AREA AND 6" MAX. OFF PROPERTY LINE

SCOPE OF WORK:
NEW ALUMINUM FENCE GATES

ANY ELECTRICAL WORK SHALL BE BY ELECTRICAL CONTRACTOR
TWO SWING GATES AT FRONT WILL BE HANDLED WITH MOTORS. MOTORS SHALL BE PROVIDED AND INSTALLED BY OTHERS

NOTE:
STRUCTURAL ALUMINUM TUBE, PIPE AND BAR SHALL BE IN ACCORDANCE WITH ASTM 429, ALLOY 6061-T6. END RAIL 90' BENDS AND CORNER BENDS WITH MAXIMUM 7'-0" POST SPACING. POSTS AND END RAILS SHALL BE FABRICATED AND INSTALLED PLUMB, -1" TOLERANCE WHEN MEASURED AT 3'-6" ABOVE THE SUPPORT.

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ALL CONNECTIONS SHALL BE WELDED W/ ROUND 3/16 CAT FILLET TYPICAL

APPLICABLE CODES

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2. A.S.C.E. 7-10 FOR WIND ANALYSIS AND DESIGN

DESIGN CRITERIA

1. BASIC WIND VELOCITY: 175 MPH
2. EXPOSURE: C
3. DESIGN LOADS: LIVE LOAD= 50 PSF OR P=200 LBS.

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:
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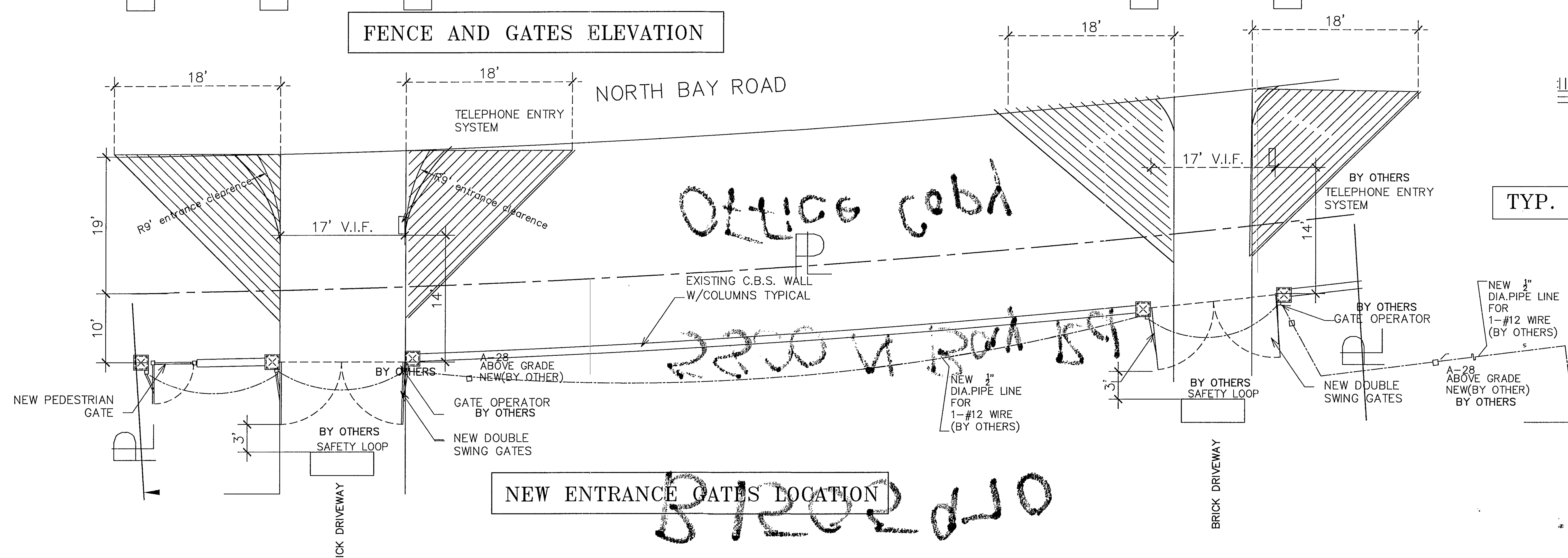
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
FLOOD:
PUBLIC WORKS: 10.17.15
STRUCTURAL:
ELEVATOR:
ROOFING:

PUBLIC WORKS
PLAN REVIEW NOTICE
Phone 305-673-7080 Fax 305-673-7028
THIS PLAN REVIEW CONSTITUTES APPROVAL FOR OBTAINING BUILDING PERMITS ONLY.
All construction and/or use of equipment in the right-of-way and/or easements, requires a separate Public Works Department permit prior to start of construction.
Permit Requirements: Proof of existing sidewalk/swale area conditions (pictures) and/or posting of sidewalk/roadway bonds
(Public Works inspection of the right-of-way will be required prior to final sign-off on the C.C. / C.O., or the release of bonds.)
Approved/Reviewed By: Date: 10/17/15

Office Copy



NEW ENTRANCE GATES LOCATION

DRAWN BY:
ART SECURITY METAL CORP.
4720 SW 94 CT.
MIAMI, FL. 33165
PH" (305)846-9042

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VICTOR HERNANDEZ FL. P.E. # 72387 SEAL

HERNANDEZ STRUCTURAL DESIGN
STRUCTURAL CONSULTAS, INSPECTIONS, INVESTIGATIONS
Victor Hernandez - P.E. # 72387 C.A. 29634
8020 HAMPTON BLVD. UNIT 314
NORTH LAUDERDALE, FL 33068
Tel: 954-247-1389 Cell: 754-422-8796

ENTRANCE GATES SHOP DRAWING
AT: 5800 NORTH BAY ROAD
MIAMI, FLORIDA
FOR: PONS STIMATING CONSTRUCTION
BY: GALECKI GROUP LLC

DRAWN BY: J.H.
CHECKED BY: V.H.
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SHEET NO.
S-1
1 OF 1

B1505970

5800 N Bay Rd

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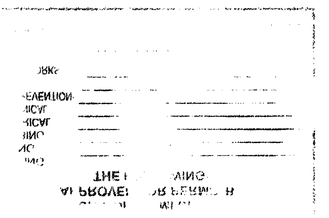

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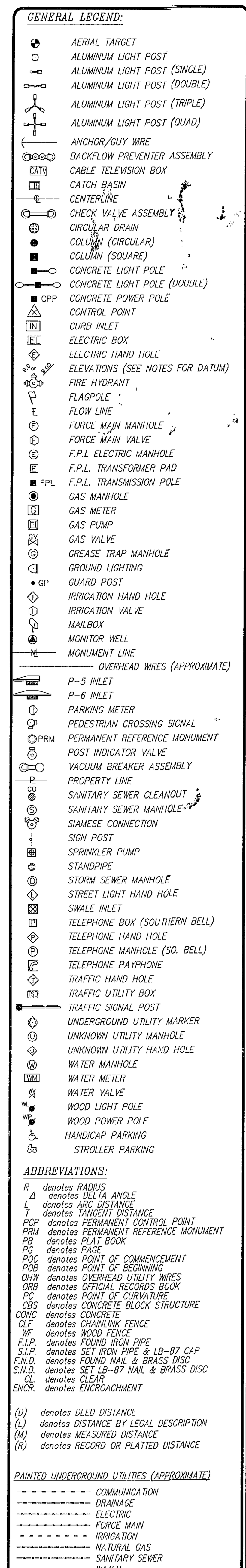
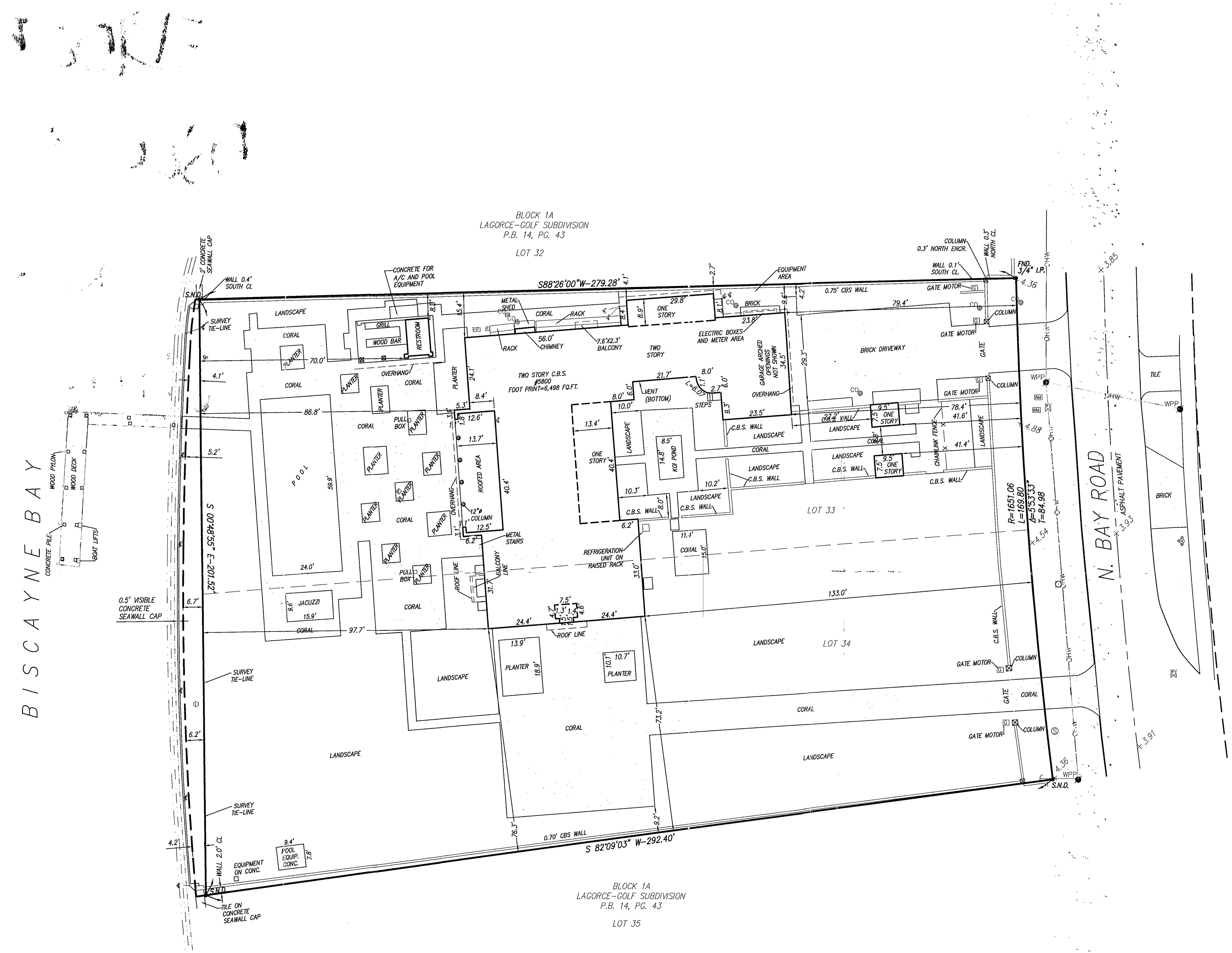
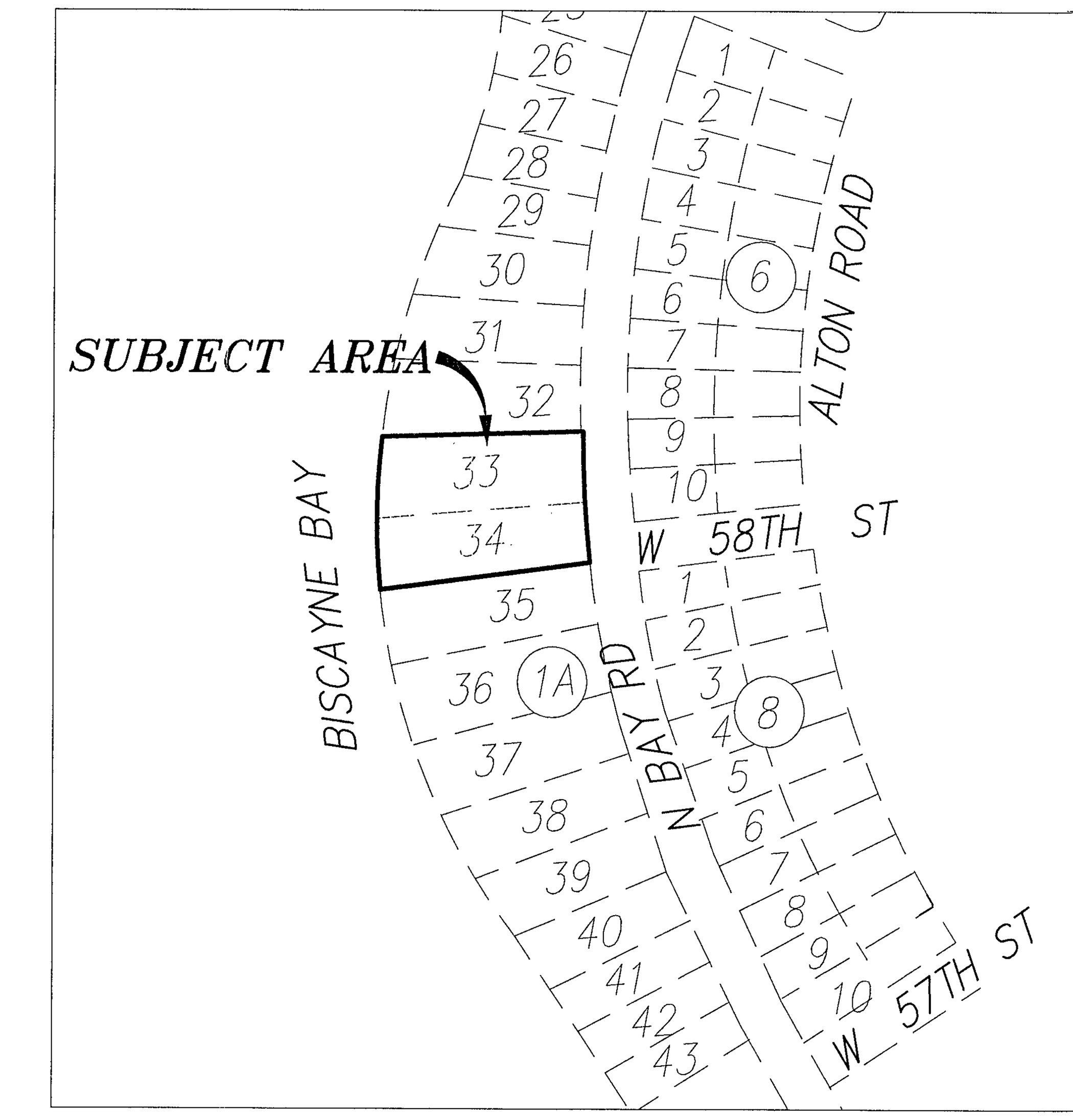
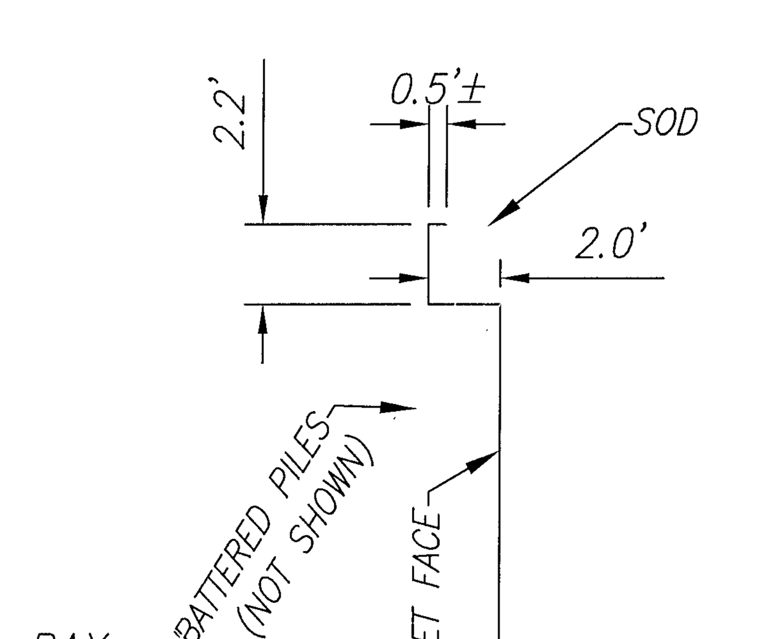






LOCATION MAP

A PORTION OF SECTION 15, TOWNSHIP 53 SOUTH, RANGE 42 EAST
MIAMI-DADE COUNTY, FLORIDA
NOT TO SCALE



NOTES:

1) BEARINGS SHOWN HEREON REFER TO AN ASSUMED BEARING OF S ALONG THE NORTH LINE OF LOT 33, BLOCK 1A.

2) LEGAL DESCRIPTION SHOWN HEREON WAS PROVIDED BY CLIENT.

3) PROPERTY AS SHOWN HEREON CONTAINS 53,740± Sq.ft.

4) UNLESS OTHERWISE NOTED, THIS FIRM HAS NOT ATTEMPTED TO LOCATE FOOTINGS AND/OR FOUNDATIONS.

5) ORDERED BY: GREENBERG TRAURIG, P.A.

6) THIS SURVEY WAS PREPARED FOR THE EXCLUSIVE USE OF THE ENTITIES NAMED HEREON. THE ATTACHED CERTIFICATION DOES NOT EXTEND TO ANY UNNAMED PARTIES.

7) PROPERTY SHOWN HEREON FALLS WITHIN FEDERAL FLOOD HAZARD ZONE AE (EL 8), PER FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 120651 0309 L OF MAP DATED 09-11-09. WITH AN INDEX DATE OF 09-11-09 (MAP No. 12086C0309 L)

8) VISIBLE INDICATORS OF UTILITIES ARE SHOWN HEREON, HOWEVER, NO ATTEMPT HAS BEEN MADE TO LOCATE UNDERGROUND ITEMS.

9) DISTANCES ALONG BOUNDARY OF SUBJECT PROPERTY ARE RECORD AND MEASURED, UNLESS OTHERWISE STATED.

10) THIS SURVEY REFLECTS ALL PERTINENT EASEMENTS, RIGHTS-OF-WAY AND OTHER MATTERS, TO THE EXTENT THAT THEY ARE PLOTTABLE, AS LISTED IN SCHEDULE B-2 OF THAT CERTAIN TITLE COMMITMENT ORDER NO 5270127 AS ISSUED BY CHICAGO TITLE INSURANCE COMPANY AND HAVING AN EFFECTIVE DATE OF APRIL 28, 2015.

11) ELEVATIONS SHOWN HEREON REFER TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D.) AND ARE EXPRESSED IN FEET.

LEGAL DESCRIPTION:

LOTS 33 AND 34, BLOCK 1A, OF LAGORCE-GOLF SUBDIVISION, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 14, PAGE 43, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

CERTIFIED TO:

- CHICAGO TITLE INSURANCE COMPANY
- GREENBERG TRAURIG, P.A.
- 5800 NORTH BAY ROAD, MIAMI, LLC, A FLORIDA LIMITED LIABILITY COMPANY

SURVEYOR'S CERTIFICATION:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS", JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS IN 2011 AND INCLUDES ITEMS 1, 2, 3, 4, 7(A), 8, 10, 11(A) AND 13 OF TABLE A THEREOF. PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA AND NSPS AND IN EFFECT ON THE DATE OF THIS CERTIFICATION, UNDERSIGNED FURTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION, AS A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA, THE RELATIVE POSITIONAL ACCURACY OF THIS SURVEY DOES NOT EXCEED THAT WHICH IS SPECIFIED THEREIN.

THIS SURVEY COMPLIES WITH THE MINIMUM TECHNICAL STANDARDS ADOPTED BY THE FLORIDA STATE BOARD OF SURVEYORS AND MAPPERS PURSUANT TO CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE.

Schwebke-Shiskin & Associates, Inc.

BY: [signature]
MARK STEVEN JOHNSON, SEC/TREASURER
PROFESSIONAL LAND SURVEYOR No. 4775
STATE OF FLORIDA

ALTA\ACSM LAND TITLE SURVEY

Section 15, Township 53 South, Range 42 East, Miami-Dade County, Florida

REVISIONS

Date:	Order No.	Field Book	Remarks:	By:
07/21/15		2240/2	ADDITIONAL GRADES ALONG RIGHT OF WAY	CSJ

Schwebke-Shiskin & Associates, Inc.
LAND PLANNERS • ENGINEERS • LAND SURVEYORS
3240 CORPORATE WAY, MIRAMAR, FLORIDA 33025 TEL: (954) 435-7010 FAX: (954) 438-3288
CERTIFICATE OF AUTHORIZATION No. LB-87

NOTE: This sketch is not valid unless it bears the signature and the original raised seal of a Florida licensed surveyor and mapper.

This is a "Boundary Survey"

Drawn By: G.R.	Survey Date: 06\02\15	Checked By: Date:
Order No. 204172	F.B. No.: 2240 Pg. 2	Scale: AS SHOWN
File No. AJ-5289		Sheet 1 of 1 Sheet(s)

FILE NO. AJ-5289

B1505970

5800 N/ Bay

Rd.

OFFICE COPY

BREVARD 557

HSD

HERNANDEZ STRUCTURAL DESIGN

2014 FLORIDA BUILDING CODE

Structural calculations by:
Victor Hernandez
PE # 72387
Project # **ENTRANCE GATES AT 5800 NORTH BAY ROAD MIAMI, FL**
11-14-2015

Rational Analysis and Engineering Design Calculations

City of Miami, Florida

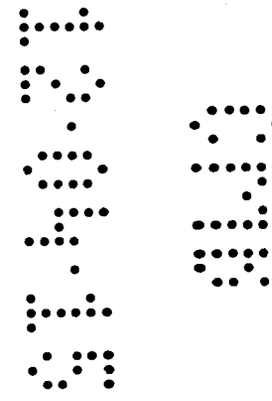
TABLE OF CONTENTS

HNA

VICTOR HERNANDEZ
LICENSE
No. 72387
STATE OF FLORIDA
PROFESSIONAL ENGINEER

8500 NW 26 DR, Coral Springs fl 33065 PH:754-422-8796,

WIND LOADS: GENERAL REQUIREMENTS ASCE 7, CH. 26				
Basic Wind Speed ($V_{ult.}$):	175	mph	Fig 26-1A,	sec. 26.5.1
Risk Category	I		Fig 26-1A,	sec. 26.5.1
Wind Directionality Factor :	0.85	Kd	Table 26.6	sec. 26.6
Exposure Category:	C			sec. 26.7.3
Topographic Factor:	1	Kzt		sec. 26.8.2
Velocity Pressure Coeff.:	0.85	Kz	Table 27.3	sec. 27.3.1
Gust Effect Factor:	0.85	G		sec. 26.9.1
Enclosure Classification:	Open	Buildings		sec. 26.10
Internal Pressure Coeff.:	-0.18	GCpi	Table 26.1	sec.26.11.1
	0.18	GCpi	Table 26.1	sec.26.11.1
Velocity Pressure :	**33.99**	$q = .00256 K_z K_t K_d V^2 I$	Eq. 27.3-1	sec. 27.3.2



Project: 5800 N. BAY ROAD.

$q = 33.99$ PSF.
$C_f = 1.40$
$G = 0.85$

$P = (33.99)(1.40)(0.85) = 40.44...$

DOOR FRAME = 2X2X1/8 Δ1 (6061-T6)

BACKING 7'-0" MAX.

LOAD ON FRAME = $(7/2)\,40.44 = 141.54$ #/FT

$\text{MOMENT} = \frac{wL^2}{8} = \frac{(141.54) \times (6.5^2)}{8} = 747.5$ #-FT

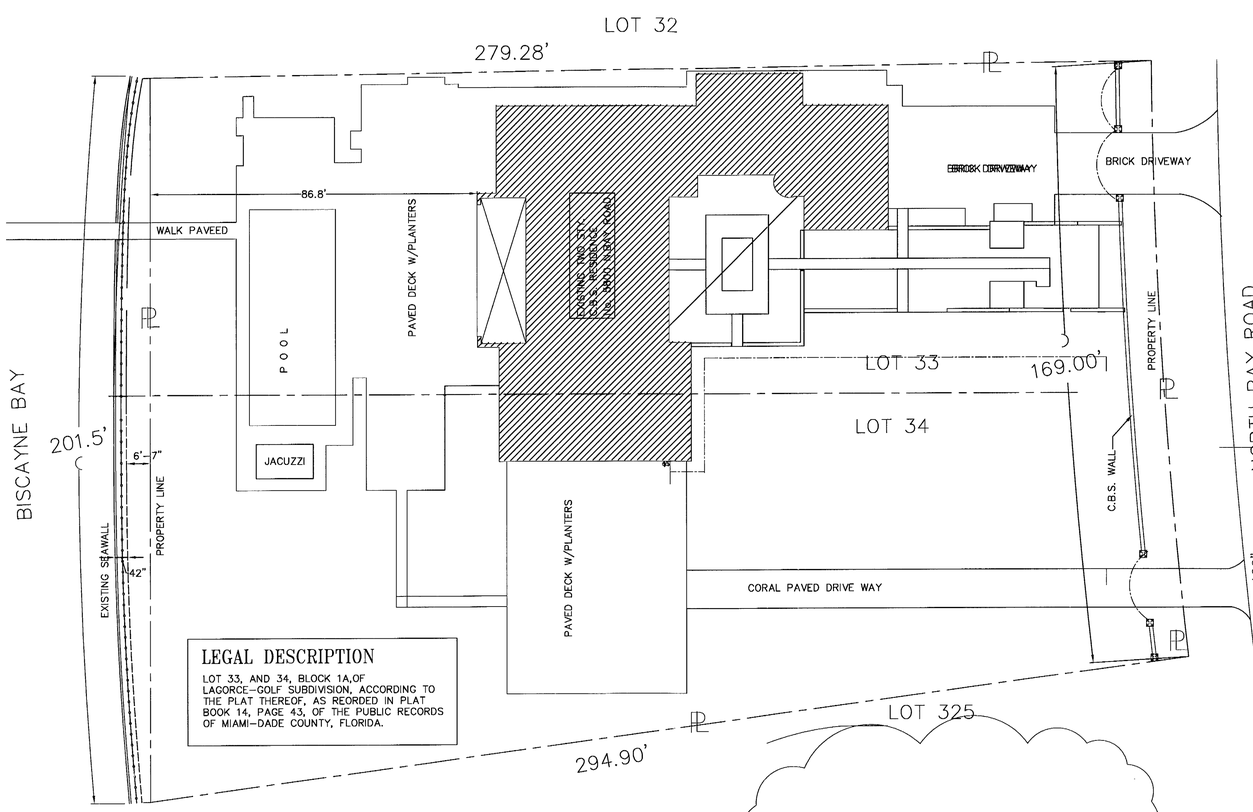
≈ 8970 #-IN

$f_b = 11$ KSI ALUM.

$S_{req} = M/f_b = \frac{8970 \text{ \#-in}}{11\,000 \text{ PSI}} = 0.81 \text{ in}^3$

USE (2) 2X2X1/8 Δ1. TUBE TOP AND BOTTOM

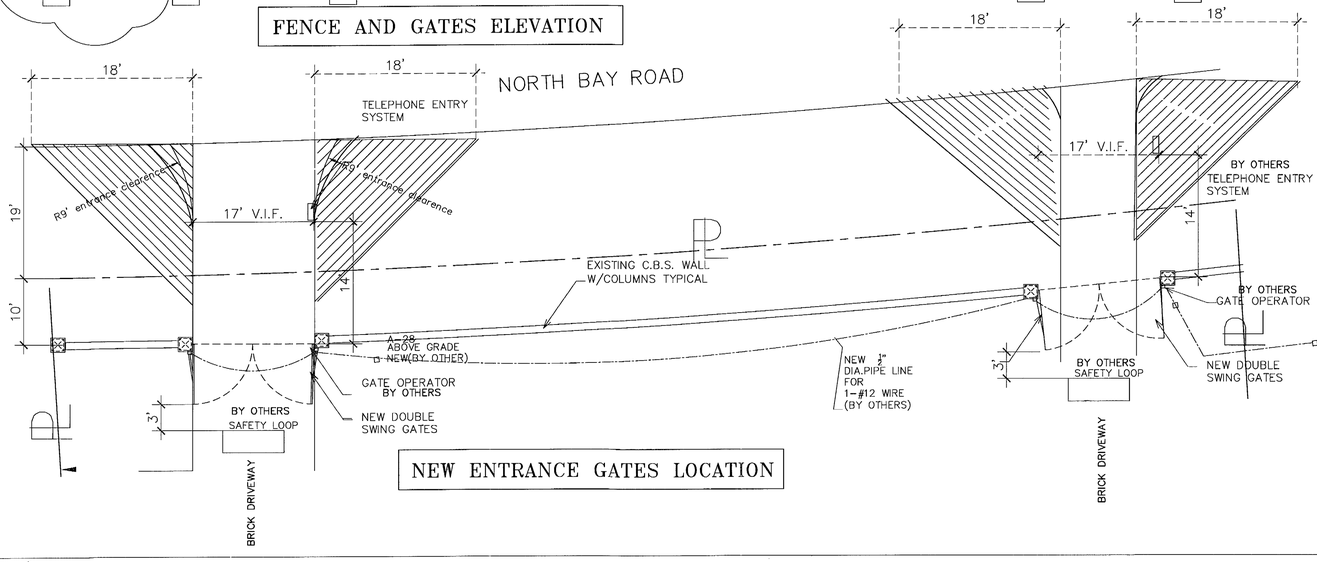
BREV1600557



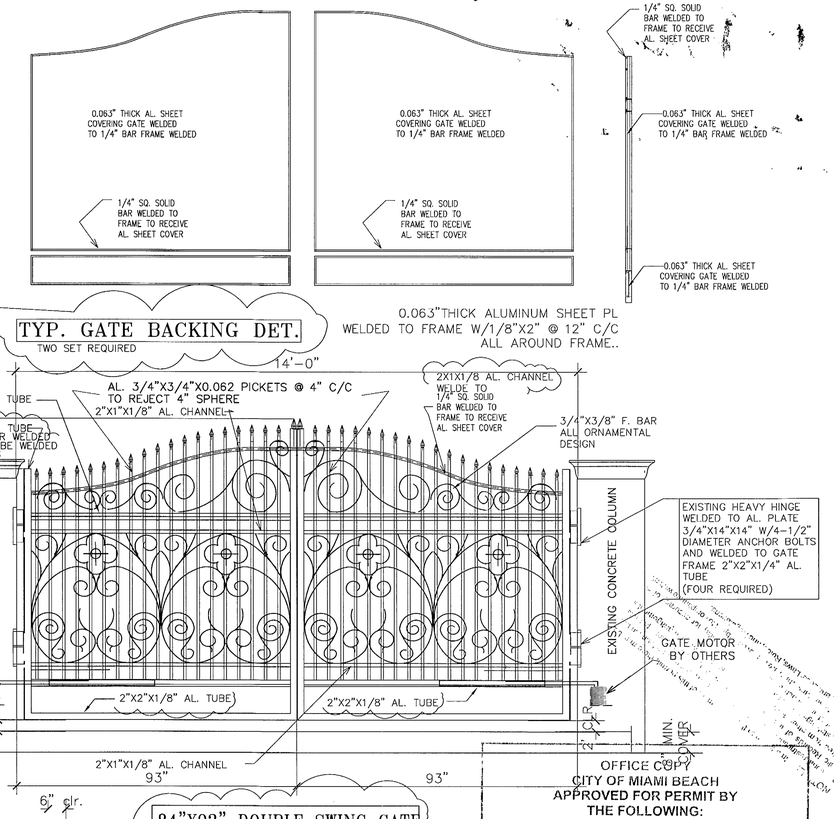
LEGAL DESCRIPTION

LOT 33, AND 34, BLOCK 1A,OF LAGORCE-GOLF SUBDIVISION, ACCORDING TO THE PLAT THEREOF, AS REORDED IN PLAT BOOK 14, PAGE 43, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

FENCE AND GATES ELEVATION



NEW ENTRANCE GATES LOCATION



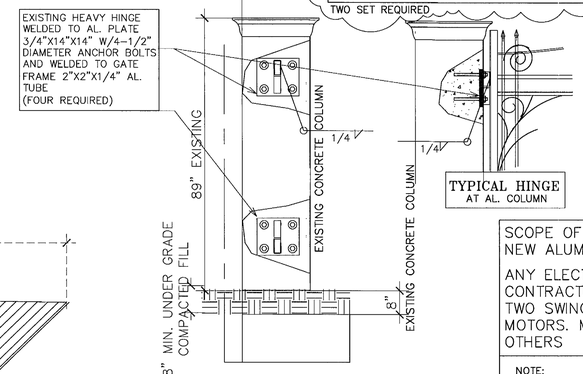
TYP. GATE BACKING DET.

TWO SET REQUIRED

0.063"THICK ALUMINUM SHEET PL WELDED TO FRAME W/1/8"X2" @ 12" C/C ALL AROUND FRAME..

84"X93" DOUBLE SWING GATE

TWO SET REQUIRED



TYPICAL HINGE AT AL. COLUMN

TYP. FENCE/GATE SUPPORT

NOTE: EDGE OF CONCRETE FOOTING FOR POSTS TO BE INTO PROPERTY AREA AND 6" MAX. OFF PROPERTY LINE

SCOPE OF WORK:
NEW ALUMINUM FENCE GATES

ANY ELECTRICAL WORK SHALL BE BY ELECTRICAL CONTRACTOR
TWO SWING GATES AT FRONT WILL BE HANDLED WITH MOTORS. MOTORS SHALL BE PROVIDED AND INSTALLED BY OTHERS

NOTE:
STRUCTURAL ALUMINUM TUBE, PIPE AND BAR SHALL BE IN ACCORDANCE WITH ASTM 429, ALLOY 6061-T6. END RAIL 90° BENDS AND CORNER BENDS WITH MAXIMUM 7'-0" POST SPACING. POSTS AND END RAILS SHALL BE FABRICATED AND INSTALLED PLUMB, -1" TOLERANCE WHEN MEASURED AT 3'-6" ABOVE THE SUPPORT.

ALUMINUM SURFACES IN CONTACT WITH CONCRETE OF MASONARY SHALL BE PROTECTED WITH HEAVY-BODIED BITUMINOUS PAINT OR METHACRYLATE LACQUER

ALL WELDS TO BE DONE BY CERTIFIED WELDER PER AWS D.1.1.ALL WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE, FILLER METAL SHALL BE EITHER ER5183, ER5356 OR ER5556.

ALL CONNECTIONS SHALL BE WELDED W/ ROUND 3/16 CAT FILLET TYPICAL

1/4"

PUBLIC WORKS
PLAN REVIEW NOTICE
Phone 305-673-7080 Fax 305-673-7028

THIS PLAN REVIEW CONSTITUTES APPROVAL FOR OBTAINING BUILDING PERMITS ONLY.

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

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

Approved/Reviewed By: B. Durrall Date: 12/4/15

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

BUILDING:
ZONING: 12/4/15
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
FLOOD:
PUBLIC WORKS: B. Durrall 12/4/15
STRUCTURAL: 12/4/15
ELEVATOR:
ROOFING:

APPLICABLE CODES

1. FLORIDA BUILDING CODE 2014
2. A.S.C.E. 7-10 FOR WIND ANALYSIS AND DESIGN

DESIGN CRITERIA

1. BASIC WIND VELOCITY: 175 MPH
2. EXPOSURE: C
3. DESIGN LOADS:
LIVE LOAD= 50 PSF OR P=200 LBS.

DRAWN BY:
ART SECURITY METAL CORP.
4720 SW 94 CT.
MIAMI, FL. 33165
PH" (305)846-9042

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VICTOR HERNANDEZ, EL. PE. # 72367
STATE OF FLORIDA
PROFESSIONAL ENGINEER
SEAL

HERNANDEZ STRUCTURAL DESIGN
CONSULTAS, INSPECTIONS, INVESTIGATIONS
Victor Hernandez - P.E. # 72367 C.A. 29634
8020 HAMPTON BLVD, UNIT 314
NORTH LAUDERDALE, FL 33068
Tel: 954-247-1389 Cell: 754-422-8796

ENTRANCE GATES SHOP DRAWING
AT: 5800 NORTH BAY ROAD
MIAMI, FLORIDA
FOR: PONS STIMATING CONSTRUCTION
BY: GALECKI GROUP LLC

MODIFIED: 11/5/2015
DRAWN BY: J.H.
CHECKED BY: V.H.
DATE: 07-08/15
SHEET NO.

S-1
1 OF 1

BREWOOD ST
5800 N Bay Rd

B1505970