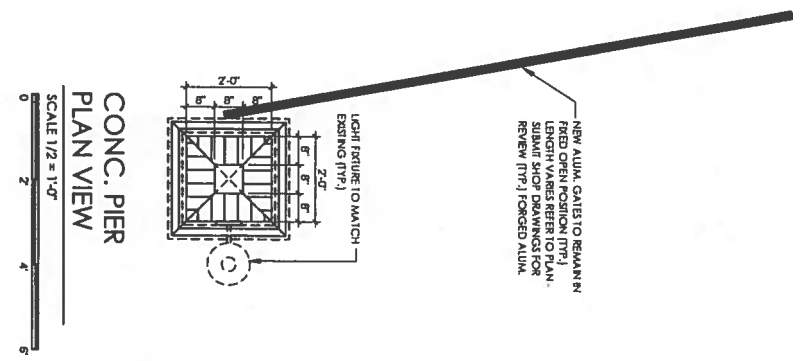
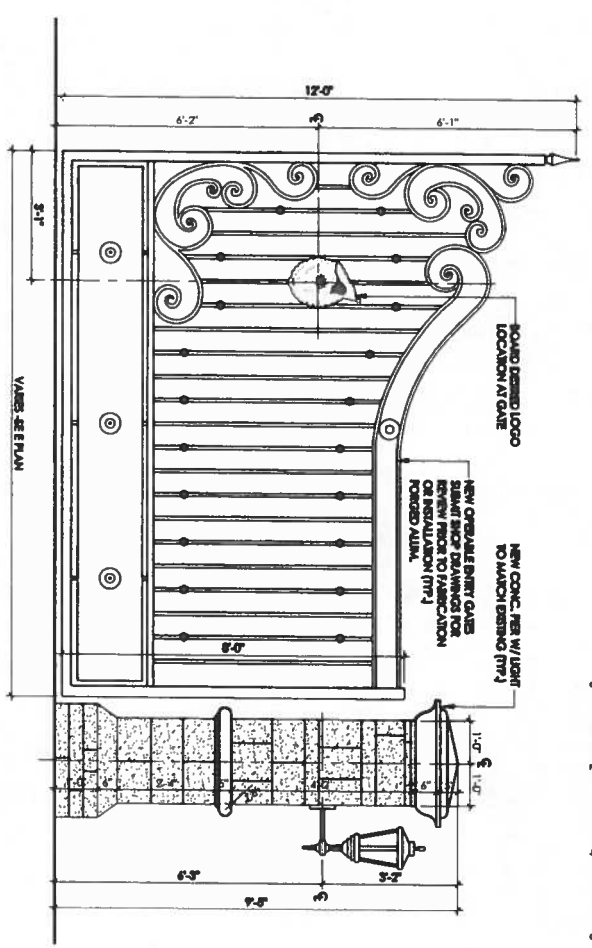


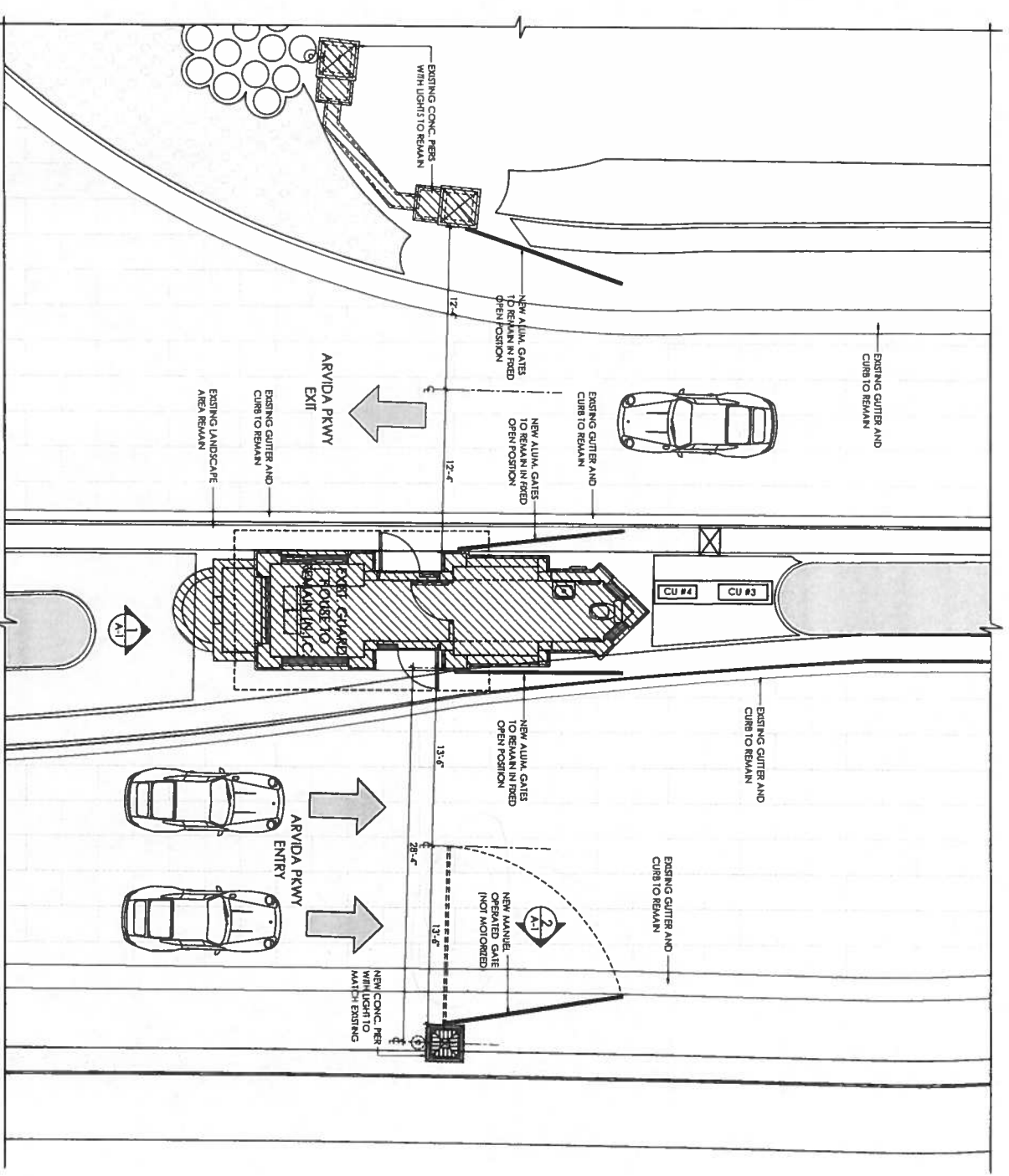
NOTE:
 SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND/OR INSTALLATION (TYP.). ALL ALUMINUM GATES SHALL BE OPERABLE NOT MOTORIZED AND INTENDED FOR DECORATIVE PURPOSES. ALL DECORATIVE GATES SHALL REMAIN OPEN AT ALL TIMES.



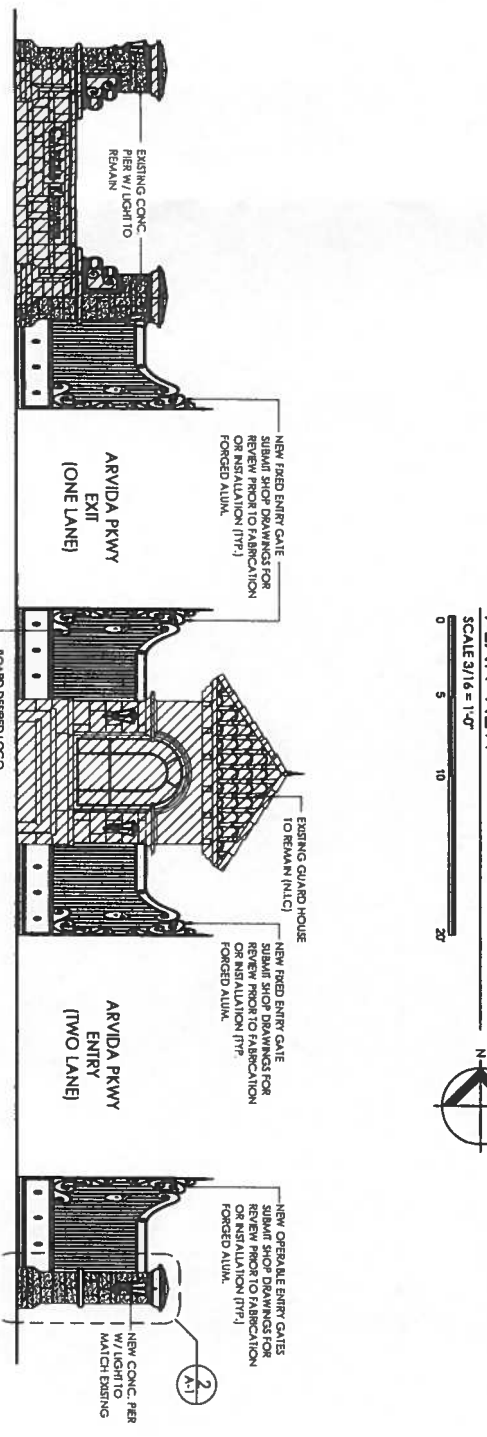
CONC. PIER
 PLAN VIEW
 SCALE 1/2" = 1'-0"



2 GATE ELEVATION
 SCALE 1/2" = 1'-0"



ARVIDA PARKWAY ENTRY GATES
 PLAN VIEW
 SCALE 3/16" = 1'-0"



1 ARVIDA PARKWAY ENTRY GATES
 ELEVATION
 SCALE 3/16" = 1'-0"

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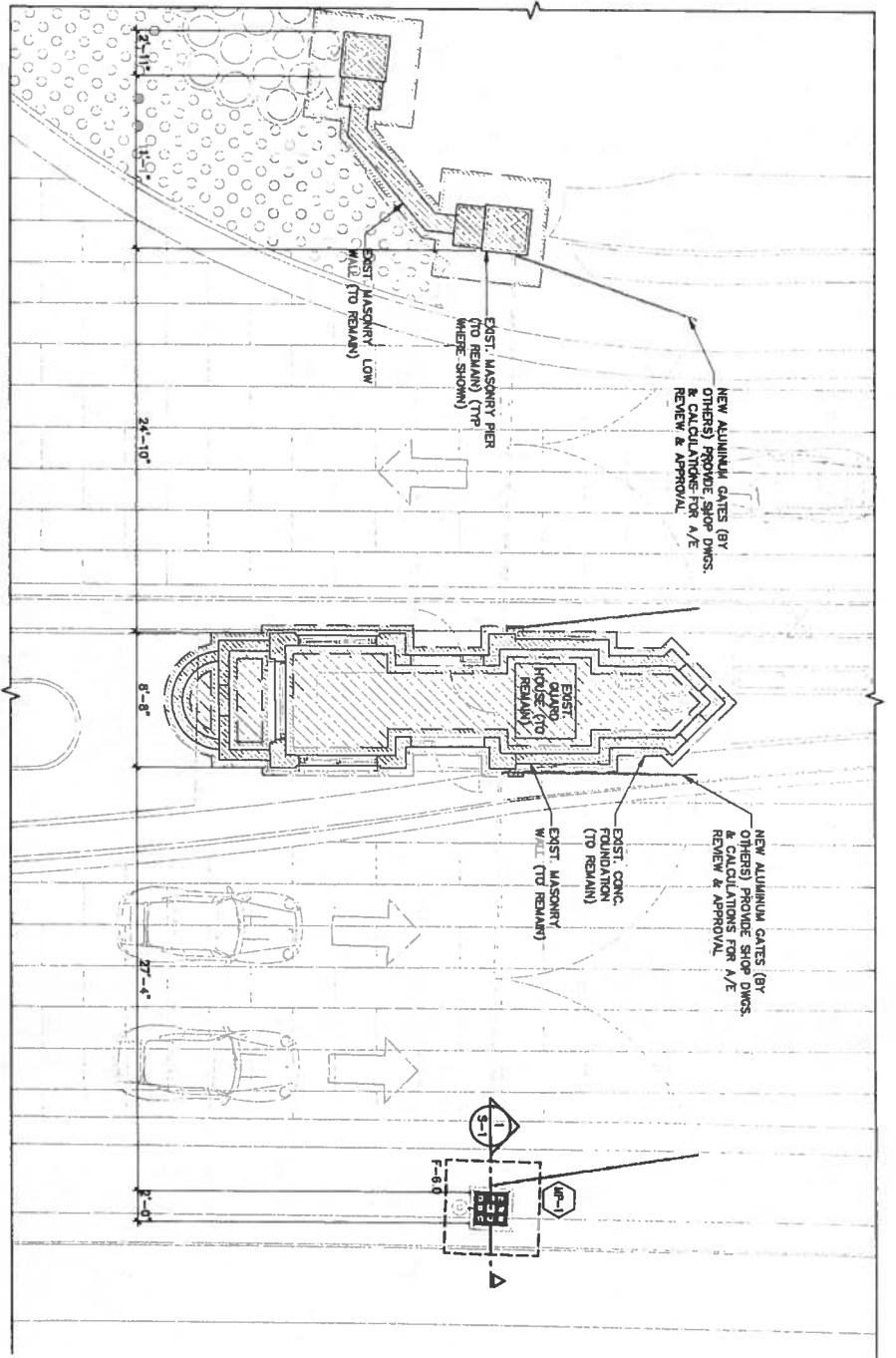


PACHECO-MARTINEZ & ASSOCIATES LLC.
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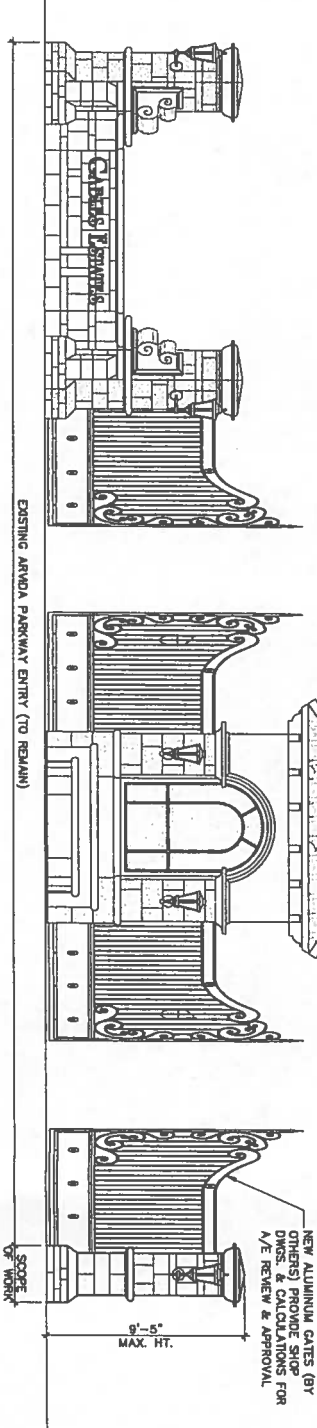
NEW ENTRY GATES FOR:
GABLES ESTATES CLUB
 ARVIDA PARKWAY
 SW 88TH STREET & OLD CUTLER ROAD
 CORAL GABLES, FLORIDA

date	revisions
06-14-18	

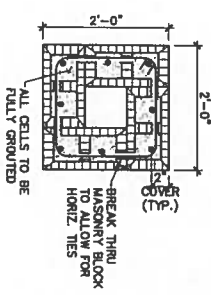
date 06-14-18
 issued
 drawn
 checked
 project no. 1519
 sheet no. A-1
 1 OF 1



FOUNDATION & GROUND FLOOR PLAN
SCALE: 3/8" = 1'-0"



ENTRY GATE ELEVATION
SCALE: 1/4" = 1'-0"



MASONRY PIER DETAIL
SCALE: 3/4" = 1'-0"

LAP SPlice TABLE

BAR SIZE	F _m =1500 PSI	F _m =2000 PSI
#3	12"	12"
#4	14"	12"
#5	16"	14"
#6	18"	16"
#7	22"	20"
#8	24"	22"
#9	27"	24"
#10	30"	27"
#11	33"	30"
#12	36"	33"

LAP SPlice TABLE
SCALE: 3/4" = 1'-0"

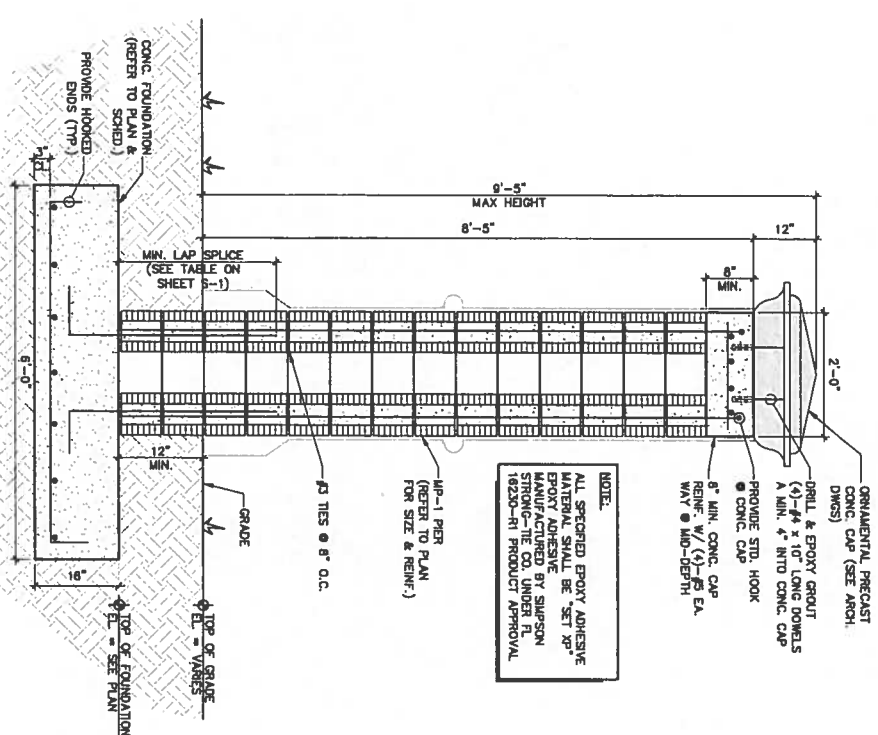
CONCRETE FOOTING SCHEDULE

MARK	ELEV. TOP OF FOOTING	WIDTH	THICK	REINFORCING	REMARKS
F-6.0	-1'-4"	4'-0" x 4'-0"	16"	#4 @ 8" O.C. CONTINUOUS TRANSVERSE	

- PLAN NOTES:**
- COORDINATE W/ARCHITECTURAL & OTHER DRAWINGS FOR INFORMATION NOT SHOWN ON THIS PLAN.
 - COORDINATE ALL WINDOW, DOOR AND OPENING LOCATIONS WITH ARCHITECTURAL DRAWINGS.
 - ALL FOOTINGS SHALL BE CENTERED UNDER WALLS & COLUMNS. U.O.H. & SHALL BE A MIN. 12" BELOW GRADE PER PERC.
 - ALLOWABLE SOIL BEARING PRESSURE IS 4000 PSF. REFER TO GENERAL NOTES AND GEOTECHNICAL REPORT.

TERMITE PROTECTION STATEMENT:

ALL BUILDINGS SHALL HAVE PRE-CONSTRUCTION TREATMENT PROTECTION FOR TERMITES. THE CONTRACTOR SHALL OBTAIN A CERTIFICATE OF COMPLIANCE FROM THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT CONTAINS THE FOLLOWING STATEMENT: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBSEQUENT TERMITES. THE TREATMENT IS PERMANENT FOR THE LIFE OF THE BUILDING AS PERMITTED BY THE FLORIDA DEPARTMENT OF AGRICULTURE & CONSUMER SERVICES."



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

LEGEND

[Hatched Box]	EXISTING WALLS
[Solid Box]	NEW FOOTING
[Dashed Box]	EXIST. FOOTING

TO THE BEST OF MY KNOWLEDGE THESE PLANS CONFORM TO THE STRUCTURAL REQUIREMENTS OF F.A.C. 2014, LATEST EDITION, INCLUDING SECTIONS PERTAINING TO H.V.A.C. REVISIONS, INCLUDING SECTIONS PERTAINING TO H.V.A.C.

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NEW ENTRY GATES FOR:
GABLES ESTATES CLUB
ARVIDA PARKWAY
SW 88TH STREET & OLD CUTLER ROAD
CORAL GABLES, FLORIDA

NOTED: The design of the foundation and footing is based on the geotechnical report provided by the geotechnical engineer. The design is based on the geotechnical report provided by the geotechnical engineer. The design is based on the geotechnical report provided by the geotechnical engineer.



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revisions

date	06-16-15	revisions	▲
issued			▲
drawn			▲
checked			▲
project no.	1519		▲

S-1

STRUCTURAL NOTES

1. GENERAL:
 - A. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL GRADES, DIMENSIONS AND LOCATIONS FOR ALL STRUCTURAL ELEMENTS. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS ON THE DRAWINGS TO THE ENGINEER, ARCHITECT, OR OTHER PROFESSIONAL ENGINEER OR ARCHITECT. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS ON THE DRAWINGS TO THE ENGINEER, ARCHITECT, OR OTHER PROFESSIONAL ENGINEER OR ARCHITECT.
 - B. THE CONTRACTOR IS RESPONSIBLE AND SHALL COMPLY WITH THE REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE AND ALL LOCAL, STATE AND FEDERAL LAWS.
 - C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL VERIFY THE METHOD OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT LIMITED TO, BRACING, SHORING AND PROTECTIVE COVERING. THE CONTRACTOR SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS IN HIS CONTRACT PRICE.
 - D. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL VERIFY THE METHOD OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT LIMITED TO, BRACING, SHORING AND PROTECTIVE COVERING. THE CONTRACTOR SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS IN HIS CONTRACT PRICE.
 - E. THE CONTRACTOR SHALL ADEQUATELY PROTECT HIS WORK, ADJACENT PROPERTY AND THE PUBLIC, AND BE RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLIGENCE.
 - F. NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, OR OTHERWISE REDUCED IN SIZE OR STRENGTH WITHOUT PRIOR APPROVAL, IN WRITING FROM THE STRUCTURAL ENGINEER.
 - G. CONTRACTOR SHALL COORDINATE STRUCTURAL AND OTHER DRAWINGS WHICH ARE PART OF THE CONTRACT DOCUMENTS FOR ANCHORED, EMBEDDED OR SUPPORTED ITEMS WHICH MAY AFFECT THE STRUCTURAL DRAWINGS.
 - H. THESE DRAWINGS ARE INTENDED TO SHOW THE GENERAL APPROXIMATE DESIGN AND INTENT OF THE WORK AND ARE PARTLY DIMENSIONAL. THESE DRAWINGS SHALL NOT BE USED TO BE SCALED OR TO SERVE AS SHOP DRAWINGS OR PORTIONS THEREOF.
 - I. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSIDERED TO APPLY TO ANY SIMILAR SITUATION UNLESS NOTED OTHERWISE ON THE DRAWINGS. A DIFFERENT DETAIL IS SHOWN.
 - J. DEFERRED WORK SHALL BE REPLACED OR REPAIRED, AS DETERMINED BY THE ENGINEER, AT NO COST TO THE OWNER, INCLUDING ENGINEERING COSTS INCURRED.
 - K. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL VERIFY THE METHOD OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT LIMITED TO, BRACING, SHORING AND PROTECTIVE COVERING. THE CONTRACTOR SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS IN HIS CONTRACT PRICE.
 - L. ALL STRUCTURAL ELEMENTS OF THE PROJECT HAVE BEEN DESIGNED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL VERIFY THE METHOD OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT LIMITED TO, BRACING, SHORING AND PROTECTIVE COVERING. THE CONTRACTOR SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS IN HIS CONTRACT PRICE.
 - M. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT WHEN PLACED ON FLOOR OR ROOF. LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ACHIEVED DESIGN STRENGTH.
 - N. THESE NOTES SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS ISSUED BY THE ARCHITECT. DISCREPANCIES SHALL BE BROUGHT TO ATTENTION TO THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
 - O. ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL, THAT ARE DEFERRED FROM THOSE SPECIFIED IN THE STRUCTURAL PLANS WILL BE REVIEWED AND APPROVED ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED:
 1. A COST SAVINGS TO THE OWNER IS DOCUMENTED & SUBMITTED WITH THE REQUEST.
 2. THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE FLORIDA BUILDING CODE AND THE PRODUCT APPROVAL REPORT IS SUBMITTED WITH THE REQUEST.
 SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED.
 - P. 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 ATTENTION OF THE ARCHITECT/ENGINEER. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED TO ALL AFFECTED PARTIES, INCLUDING THE ARCHITECT/ENGINEER.
 - Q. THE CONTRACTOR SHALL USE EXTREME CAUTION IN THE DEMOLITION OF EXISTING STRUCTURES. SUCH DEMOLITION SHALL BE PERFORMED IN SUCH A MANNER AS TO MAINTAIN THE STRENGTH AND INTEGRITY OF ALL EXISTING STRUCTURES TO REMAIN. PROVIDE TEMPORARY SHORING WHERE REQUIRED.
 - R. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FULLY AWARE OF THE EXISTING CONDITIONS & EXTENT OF WORK REQUIRED TO COMPLETE THE PROJECT PRIOR TO THE START OF CONSTRUCTION.
 - S. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY WORK PERMITS AND APPROVALS REQUIRED BY THE LOCAL AGENCY HAVING JURISDICTION TO PERFORM THE WORK INDICATED.

2. CONCRETE:

- A. CONCRETE DESIGN AND REINFORCEMENT SHALL BE IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-11) AND OF CONCRETE ELEMENTS, PLACING AND CURING TO BE IN ACCORDANCE WITH "HOT WEATHER CONCRETE" (ACI 309).
- B. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE (145 PCF) & ACHIEVE A 28-DAY COMPRESSIVE STRENGTH (f_{cd}) OF 3000 PSI. THE DESIGN MIX SHALL HAVE A MAXIMUM SLUMP OF 4" (100 MM). THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL VERIFY THE METHOD OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT LIMITED TO, BRACING, SHORING AND PROTECTIVE COVERING. THE CONTRACTOR SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS IN HIS CONTRACT PRICE.
- C. ALL CONCRETE SHALL CONFORM TO ASTM C190, TYPE 1. MAXIMUM AGGREGATE SIZE SHALL BE 1 1/2" FOR FOOTINGS & 3/4" FOR WALLS, BEAM & SLABS CONFORMING TO ASTM C33.
- D. FOR ALL CONCRETE TO BE PLACED IN SLABS (INCLUDING SLABS ON GRADE) AND WALL PANELS, THE SLUMP SHALL NOT EXCEED 4" (101.6), NO WATERS OF THIS REQUIREMENT SHALL BE CONSIDERED. SLUMP FOR PUMPED CONCRETE SHALL NOT EXCEED 7" (178).
- E. PLACING OF CONCRETE IN ALL REINFORCED COLUMNS AND WALLS SHALL BE IN EQUAL LIFTS IN POSITION PRIOR TO CONCRETING.
- F. ALL CONCRETE STRUCTURAL COMPONENTS SHALL HAVE ITS STRENGTH TESTED IN ACCORDANCE WITH THE FOLLOWING:

ELEMENT	BOTTOM	TIE	SIDES
FOUNDATION	3"	2"	2"
BEAMS	1 1/2"	1 1/2"	1 1/2"
SLAB ON GRADE	2"	1"	1"
EXTENSION STRUCT. SLAB	1 1/2"	1 1/2"	1"
- G. MINIMUM CONCRETE COVER TO REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318-11 AND SHALL BE AS FOLLOWS:

FOUNDATION	TIE	SIDES
3"	2"	2"
1 1/2"	1 1/2"	1 1/2"
2"	1"	1"
1 1/2"	1 1/2"	1"
- H. SOLE OPENING SHALL BE MADE BY BLOCKING OUT PRIOR TO PLACING CONCRETE OR BY CASTING IN PLACE. THE BLOCKING SHALL BE REMOVED IMMEDIATELY AFTER PLACING CONCRETE. THE BLOCKING SHALL BE COORDINATED WITH THE PLUMBING, ELECTRICAL & MECHANICAL PLANS.
- I. PROVIDE SLICES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH WAS CONSTRUCTED PRIOR TO POURING. TESTS SHALL BE MADE FOR 7 DAYS, TWO AT 28 DAYS AND ONE HELD IN RESERVE. CONTRACTOR SHALL PROVIDE THE STRUCTURAL ENGINEER'S OFFICE COPIES OF THE CONCRETE TEST RESULTS FOR REVIEW, AS WELL AS COPIES OF THE CONCRETE MIX DESIGN TO BE APPROVED PRIOR TO USE.
- J. MINIMUM CONCRETE COVER TO REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318-11 AND SHALL BE AS FOLLOWS:

FOUNDATION	TIE	SIDES
3"	2"	2"
1 1/2"	1 1/2"	1 1/2"
2"	1"	1"
1 1/2"	1 1/2"	1"
- K. THE CONTRACTOR SHALL EXCAVATE ALL WATER BORN WITHIN FORMWORK BEFORE PLACEMENT OF CONCRETE. AFTER PLACEMENT AND BEFORE FINISHING CONCRETE, REMOVE THE REINFORCING STEEL CLEAN AND FREE OF ALL DESTRUCTIVE MATERIAL.
- L. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED 1 1/2 HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY, THE CONCRETE MUST BE DISCARDED.

3. MASONRY:

- A. ALL MASONRY CONSTRUCTION TO BE IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS FOR MASONRY CONSTRUCTION AND REINFORCEMENT OF CONCRETE STRUCTURES (ACI 318-11) AND REINFORCED WITH #3 GAGE HORIZONTAL REINFORCING LOCATED AT 18" O.C., LAID IN TYPE "A" MASONRY TO BE Laid IN TYPE "M" MORTAR (2500 PSI) WITH FULL HEAD AND BED JOINTS.
- B. BLOCK CELLS AT WALL ENDS, CORNERS, INTERSECTIONS AND ADJACENT TO ALL OPENINGS SHALL BE FILLED WITH GROUT AND REINFORCED WITH MINIMUM ONE #3 VERTICAL REINFORCING BAR. DOWELS SHALL BE USED TO PROVIDE CONTINUITY INTO THE STRUCTURE.
- C. MASONRY NET AREA COMPRESSIVE STRENGTH (f_m) SHALL BE 1500 PSI AND THE NET AREA SHALL BE 550/550-11.
- D. ALL REINFORCED MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF CONCRETE REINFORCEMENT, CAST-IN-PLACE CONCRETE AND CONCRETE MASONRY. VERTICAL REINFORCING SHALL ANCHOR INTO SLABING CONCRETE. REINFORCEMENT CELLS WITH REINFORCING SHALL BE FILLED WITH COURSE GROUT CONSISTING OF 3000 PSI CONCRETE WITH #3 COURSE AGGREGATE, WHERE HEIGHT OF MASONRY WALL EXCEEDS 4'-0". USE HIGH-LIFT GROUTING TECHNIQUE WHICH REQUIRES A CLEAN-OUT OPENING AT THE BOTTOM OF ALL CELLS AND PLACING THE GROUT IN MAXIMUM 4'-0" LIFTS WITH A 30 TO 60 BLENDED DELTA BETWEEN LIFTS. GROUT SHALL CONFORM TO ASTM C495. SLUMP SHALL BE BETWEEN 8" AND 10".
- E. MORTAR SHALL COMPLY WITH ASTM C-270-08, TYPE "M", WITH A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2500 PSI.
- F. HORIZONTAL REINFORCEMENT SHALL BE DUE TO WALL STANDARD (9 GA.), ASTM CLASS B-2. HOT DIPPED GALVANIZED OR APPROVED EQUAL.
- G. VERTICAL REINFORCEMENT SHALL CONFORM TO ASTM A615/A615M-09, GRADE 60. FILL ALL REINFORCED CELLS WITH 3000 PSI CONCRETE OR GROUT. SEE PLAN FOR SIZE AND SPACING OF VERTICAL REINFORCEMENT.
- H. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF MASONRY WALLS DURING CONSTRUCTION. ALL NECESSARY PRECAUTIONS MUST BE TAKEN TO PREVENT INJURY TO PERSONS RESULTING FROM MASONRY WALL FALLING.

4. REINFORCING STEEL:

- A. TO BE NEW BULLET STEEL CONFORMING TO THE LATEST ASTM A615 GRADE 60. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH ACI 318-11 AND MINIMUM OF STANDARD PRACTICE OF THE CRIS & PLACED IN ACCORDANCE WITH ACI 318 & ACI MINIMUM OF STANDARD PRACTICE.
- B. COLUMN REINFORCEMENT: DOWELS TO BE SAME SIZE AND NUMBER AS VERTICALS ABOVE. LAP 36 BAR DIAMETER OR MINIMUM OF 18" O.C. PROVIDE STANDARD HOOKS FOR ALL VERTICAL REINFORCEMENT AT NON-CORNER COLUMNS.
- C. ALL REINFORCING STEEL SHALL BE TIED DOWN AND INDEPENDENTLY SUPPORTED ON CHAIRS AND SUPPORT BARS. REINFORCEMENT SHALL BE FREE OF OIL OR OTHER NONMETALLIC COATINGS THAT ADVERSELY AFFECT BONDING CAPACITY.
- D. ALL DOWELS FOR COLUMNS AND WALLS TO BE SECURED IN POSITION PRIOR TO CONCRETING. DRILLING OR PUSHING THE DOWELS INTO POSITION IN NET CONCRETE IS NOT PERMITTED.
- E. WELDED WIRE FABRIC (W.W.F.) SHALL CONFORM TO ASTM A-185. MINIMUM LAP OF W.W.F. SHALL BE 6 IN. OR ONE FULL MESH, WHICHEVER IS GREATER.
- F. ALL REINFORCING BARS MARKED "CONTINUOUS" SHALL BE LAPPED 36 BAR DIA. AT SPICES AND CORNERS UNLESS OTHERWISE NOTED. LAP CONTINUOUS TOP BARS AT CENTER BETWEEN SUPPORTS AS REQUIRED. TERMINATE CONTINUOUS BARS AT NON-CORNER ENDS WITH STANDARD HOOKS, U.O.N.
- G. ALL WALLS AND COLUMNS SHALL BE DOWELED INTO FOOTINGS. WALLS, BEAMS OR SLABS WITH BARS OF THE SAME SIZE AND SPACING AS THE BARS ABOVE. USE A (3x) BAR DIAMETER LAP EXCEPT WHERE SPECIALLY INDICATED.
- H. FOR EXTERIOR SLABS SUCH AS BALCONIES THAT ARE EXPOSED TO WEATHER, TOP REINFORCING BARS SHALL BE LAPPED WITH WELDED WIRE FABRIC (W.W.F.) FOR EXTERIOR COATED REINFORCING STEEL BARS. ASTM A775. MINIMUM COVER FOR THESE BARS SHALL BE 1 1/2". CONCRETE WATER CEMENT RATIO SHALL NOT EXCEED 0.40 BY WEIGHT AND ALSO A SURFACE PENETRANT OF THE ALUMI-NUM-SILICATE SLAKE CLASSIFICATION OR APPROVED EQUAL SHALL BE APPLIED AFTER PROPER SURFACE PREPARATION AT THE ABOVE MENTIONED AREAS, AS BY THE APPROVED ENGINEER. CONCRETE MIX DESIGN CONTAINING AN APPROVED CORROSION INHIBITOR ADJUTIVE IN CONFORMANCE TO ASTM C494, TYPE C.
- I. ALL REINFORCEMENT SHALL BE BOLT COOL, UNLESS OTHERWISE PERMITTED BY THE PROFESSIONAL ENGINEER IN WRITING. ALL TIES SHALL HAVE A 135 DEGREE HOOKS.
- J. ALL NEW REINFORCING STEEL THAT WILL BE WELDED SHALL MEET THE REQUIREMENTS OF ASTM A706 GRADE 80 DETORSED BARS.

5. FOUNDATION:

- A. ALL FOOTING AND FOUNDATION SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (2014 EDITION) AND OTHER REFERENCED CODES & SPECIFICATIONS, ASSOCIATES, INC. UNDER FILE NO. 15-2585, DATED JULY 17, 2015.
- B. REFER TO SUBSURFACE EXPLORATION REPORT FOR SITE PREPARATION AND COMPACTION. THE ALLOWABLE SOIL BEARING PRESSURE FOR THIS SITE SHALL BE 4000 PSF.
- C. SHOULD ANY DISCREPANCIES BE FOUND WITH THE RECOMMENDATIONS AND FINDING OF SUCH REPORT, THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT AND ENGINEER OF RECORD FOR SUCH DISCREPANCIES BEFORE ANY FURTHER WORK IS TO CONTINUE.
- D. UPON EXCAVATION, BACKFILLING AND COMPACTION OF THE SOIL SHALL BE TREATED FOR SUPERSTRAINING TENSILE PREVENTION AS REQUIRED BY THE SOIL SECTION 1810.
- E. ALL EXCAVATIONS SHALL BE PROPERLY BRACED AND/OR SHORED TO COMPLY WITH FLORIDA STATE SECTION 5530 AND 2014 FBC REQUIREMENTS.
- F. CONTRACTOR SHALL EXCAVATE FOOTINGS TO THE REQUIRED DEPTH. INSPECT THE BOTTOM OF THE EXCAVATIONS FOR SOIL SATURABILITY AND STABILITY. IF UNSATURABLE MATERIAL, SUCH AS ORGANIC SOIL OR SPT CLAYS IS ENCOUNTERED IT MUST BE REMOVED AND REPLACED WITH SINKABLE STRUCTURAL FILL OR SAND AGGREGATES AND RE-COMPACTED.
- G. ALL STRUCTURAL FILL SHOULD BE PLACED IN 6 TO 12 INCH LIFTS AND COMPACTED TO A MINIMUM OF 95% OF THE MATERIALS MOISTURE PROCTOR MAXIMUM DRY DENSITY (ASTM D1557) AND BE FREE OF ORGANICS, ROOTS OR OTHER DESTRUCTIVE MATERIALS.
- H. THE CONCRETE FOR EACH ISOLATED FOOTING SHALL BE PLACED IN ONE CONTINUOUS POUR. PROVIDE CONSTRUCTION JOINT REINFORCEMENT AT DIFFERENT AND/OR INTERRUPTED POURS PER DETAILS SHOWN ON THESE DRAWINGS.

6. STRUCTURAL DESIGN CRITERIA:

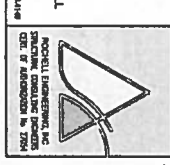
- A. THIS STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH THE LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE (2014 EDITION) AND OTHER REFERENCED CODES & SPECIFICATIONS.
- B. WIND LOADS ARE BASED ON ASCE 7-10 & 2014 FBC REQUIREMENTS. 3 SECOND SUSTAINED WIND SPEEDS OF 175 MPH AT HURRICANE DESIGN WIND SPEEDS. C & D WINDWAVE FACTOR, K_d = 0.85 & CATEGORY I BLOC CLASSIFICATION.

THIS STRUCTURE HAS BEEN DESIGNED AS "ENCLOSED" & REQUIRES IMPACT RESISTANT GLASS OR SHUTTERS TO COMPLY WITH FBC SECTIONS 1609.1.2 & 1628.

7. SHOP DRAWINGS:

- A. SUBMIT SHOP DRAWINGS FOR A/E REVIEW & APPROVAL BEFORE STARTING FABRICATION, INSTALLATION OR FABRICATION OF SUCH ELEMENTS.
- B. NO SHOP DRAWINGS SHALL SUBMITTED FOR A/E REVIEW UNTIL AFTER THEY HAVE BEEN REVIEWED AND NOTED FOR CONSTRUCTION METHOD, DIMENSIONING AND OTHER TRADE REQUIREMENTS BY THE CONTRACTOR AND STAMPED WITH THE CONTRACTOR'S APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL VERIFY THE METHOD OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT LIMITED TO, BRACING, SHORING AND PROTECTIVE COVERING. THE CONTRACTOR SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS IN HIS CONTRACT PRICE.
- C. ALL CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS MUST BE CLEARLY FLAGGED AND NOTED. SHOP DRAWING REVIEW IS LIMITED TO A MAXIMUM OF 2 REVIEWS. THEREAFTER, ADD'L FEES SHALL BE PAID BY OWNER/CONTRACTOR TO ENGINEER FOR ADD'L REVIEWS.
- D. THE REVIEW OF ALL STRUCTURAL SUBMITTALS BY THE STRUCTURAL ENGINEER OF RECORD SHALL BE TO INSURE THAT HIS INTENT HAS BEEN UNDERSTOOD AND THAT THE SPECIFIED CRITERIA HAS BEEN USED. A COPY OF ALL SHOP DRAWING SUBMITTALS WILL BE RETURNED BY THE ENGINEER.
- E. THE CONTRACTOR SHALL SUPPLY THE ENGINEER OF RECORD A MINIMUM OF THREE (3) COPIES OF SHOP DRAWINGS AND CALCULATIONS.
- F. SHOP DRAWINGS SUBMITTALS TO STRUCTURAL ENGINEER SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
 - CONCRETE TEST REPORT FOR CAST-IN-PLACE CONCRETE.
 - MASONRY TEST REPORT AND CUT-SHEETS FROM SUPPLIER.
 - REINFORCING STEEL SHOP DRAWINGS.
 - PRE-FABRICATED ROOF TRUSSES SHOP DRAWINGS AND CALCULATIONS.
 - STRUCTURAL STEEL SHOP DRAWINGS.
 - PRE-CAST CONCRETE JOISTS SHOP DRAWINGS AND CALCULATIONS.
 - BRACING AND SHORING SHOP DRAWINGS AND CALCULATIONS.
 - RAILINGS/GUARDRAILS SHOP DRAWINGS AND CALCULATIONS.

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date 06-14-15 revisions
 issued N
 drawn A.R.
 checked
 project no. 1519

NEW ENTRY GATES FOR:

GABLES ESTATES CLUB

ARVIDA PARKWAY
 SW 88TH STREET & OLD CUTLER ROAD
 CORAL GABLES, FLORIDA

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