

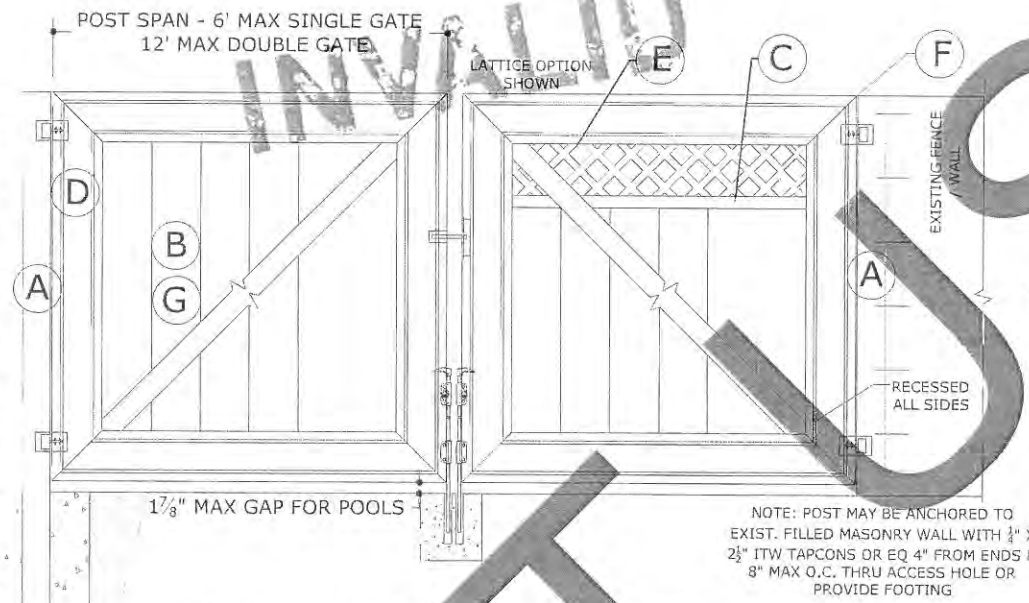
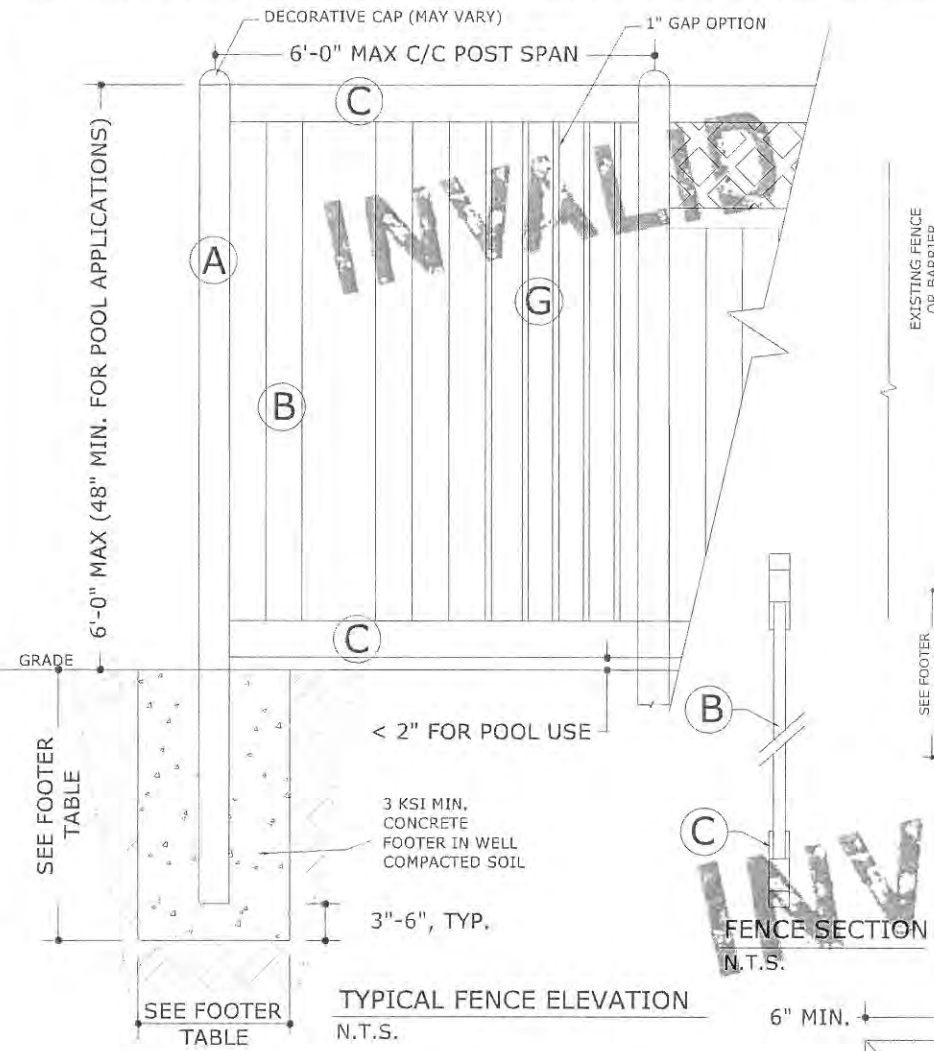
# PVC FENCE AND GATE MASTER PLAN SHEET

DRAWING VALID ONLY WITH ORIGINAL SIGNATURE AND RAISED SEAL. VALID FOR 500FT OF FENCING AT (1) LOCATION PER SEALED DRAWING

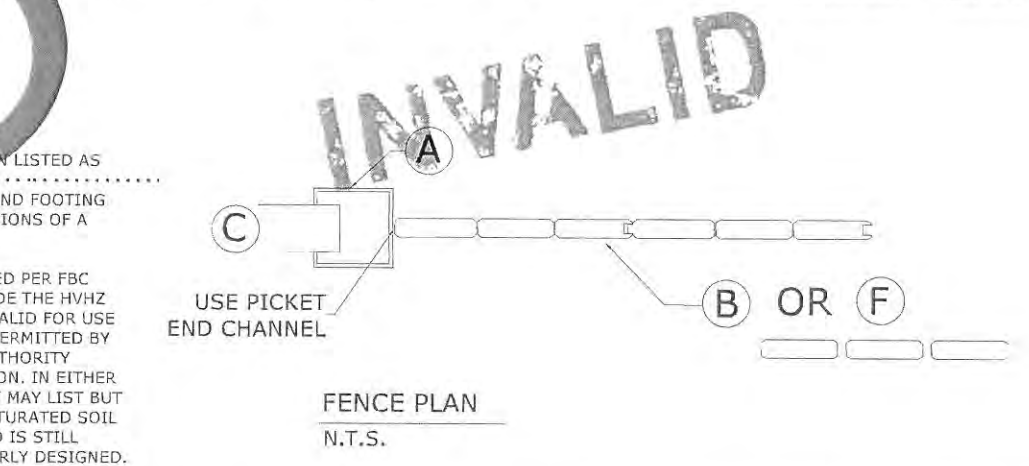
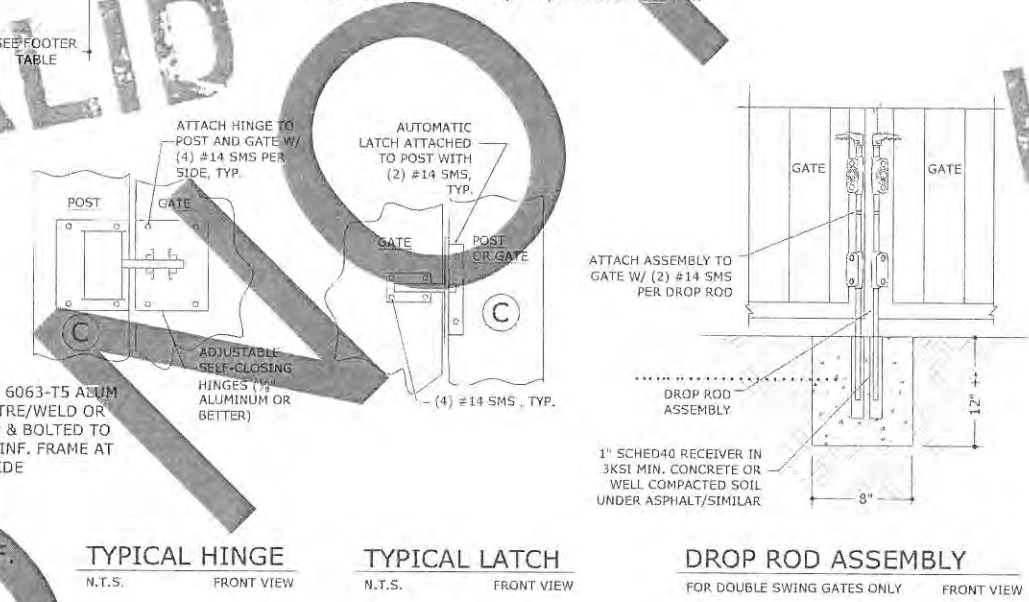
(NON-STRUCTURAL, DECORATIVE BARRIER, TYPICAL INSTALLATION (NON-SLOPED GROUND LEVEL ONLY))

03/13/2019

CERTIFYING ENGINEER AND CERT OF AUTH AS LISTED ON STAMP



TYPICAL GATE DETAIL (DOUBLE SHOWN)  
N.T.S. NOTE: THIS CONFIGURATION NOT FOR POOL USE. SEE GENERAL NOTES FOR POOL, GATE, & LATCH INFORMATION



## GENERAL NOTES

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 6TH EDITION (2017). ALSO MEETS 2012, 2015, 2018 INTERNATIONAL BUILDING CODES.
- DESIGN BASED ON ASCE 7-10 USING  $V_{mh} = 115\text{MPH}$  /  $V_{msl} = 90\text{MPH}$  (3 SEC GUST, UP TO 6'-0" WITHIN HVHZ),  $V_{mh} = 156\text{MPH}$  /  $V_{msl} = 121\text{MPH}$  (3 SEC GUST, ABOVE 6'-0" OR OUTSIDE HVHZ), EXPOSURE 'D' & 'C', RISK CATEGORY I, USING THE 'SOLID FREESTANDING SIGN METHOD'.  
NOTE: WHERE PERMITTED BY THE GOVERNING BUILDING OFFICIAL OUTSIDE THE HVHZ, THE TABLE VALUES WITHIN THE HVHZ MAY BE USED.
- SEISMIC DESIGN DOES NOT GOVERN, SEISMIC PARAMETERS CHECKED: SEISMIC RISK CAT. II, IMPORTANCE FACTOR 1.0,  $S_s = 0.05533$ ,  $S_1 = 0.02187$ , SITE CLASS D,  $S_{ds} = 0.059$ ,  $S_{d1} = 0.035$ , SEISMIC DESIGN CAT. A, BASIC SEISMIC FORCE-RESISTING SYSTEMS ALL OTHER SELF-SUPPORTING STRUCTURES, DESIGN BASE SHEAR 25 LBS (WT OF TRIBUTARY MAX=500LB, UP TO 10FT ABOVE GRADE),  $C_s = 0.047$ ,  $R = 1.25$ , NON-BUILDING EQUIVALENT LATERAL FORCE PROCEDURE ANALYSIS.
- THIS FENCE DESIGN TO BE USED AT GROUND SURFACE ONLY, WITH USE LIMITED TO DECORATIVE BARRIER PURPOSES ONLY. THIS FENCE IS NOT INTENDED TO MEET CODES GOVERNING ELEVATED BALCONIES OR STRUCTURAL RAILINGS.
- FOR POOL APPLICATIONS:** ACCESS GATES WHEN PROVIDED SHALL COMPLY WITH FBC 454.2 AND MUST BE AT LEAST 48" ABOVE GRADE & EQUIPPED WITH A SELF CLOSING, SELF LATCHING LOCKING DEVICE NOT LESS THAN 54" FROM BOT OF GATE. GATE MUST OPEN OUTWARD AWAY FROM POOL & MUST HAVE NO OPENING > 1/2" WITHIN 18" OF RELEASE MECHANISM.
- FOR NON-POOL APPLICATIONS REQUIRING EGRESS:** PER FLORIDA FIRE PREVENTION CODE 6TH EDITION, NFPA 1, 101, 2017 EDITION, GATES REQUIRING EGRESS SHALL HAVE NO LATCHES AND BE FREE SWINGING FOR QUICK EXITING. GATE SHALL HAVE SELF-CLOSING HINGES ONLY.
- PVC INFORMATION:** ALL PVC RESIN TO BE ASTM01784 EXTRUDED D638 FLEX STR. 9600PSI D790. ALL TO CONFORM TO ASTM F964 FOR RIGID POLYVINYL PROFILES.
- ALL FASTENERS TO BE #12 X 3/4" OR GREATER 2024-T4, 18-8 SERIES 300 NON-MAGNETIC STAINLESS STEEL OR CADMIUM PLATED OR OTHERWISE CORROSION RESISTANT MATERIAL AND SHALL COMPLY WITH J.3.4, THE ALUMINUM DESIGN MANUAL - SECTION J.3, THE ALUMINUM ASSOCIATION, INC., & APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
- ALL CONCRETE AND EPOXY TO REACH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 7 DAYS. CONCRETE FOOTERS SHALL CONTAIN MINIMUM 0.1% FIBERMESH CONTENT PER CUBIC YARD. ALL EPOXY AND GROUT SHALL MEET OR EXCEED COMPRESSIVE STRENGTH OF THE CONCRETE AND SHALL BE IRON-FREE, NON-SHRINK AND NON-REACTIVE.
- SURROUNDING SOIL TO BE COMPACTED TO 95% OPTIMUM DENSITY, 2000 PSF MIN AND SHALL BE CLASSIFIED OR VERIFIED BY OTHERS PRIOR TO CONSTRUCTION PER FBC 1806.2 AND SHALL BE SANDY GRAVEL CLASS ONLY. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- ANY HINGE AND LATCH SHALL BE STRUCTURAL QUALITY MOLDED POLYMERS OR ZINC COATED METALS AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS & ANY APPLICABLE CODES.
- ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.
- ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
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- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

### GATE COMPONENTS

A	5" SQ X 0.150" PVC POST
B	7/8" X 11" X 0.55" TONGUE AND PVC BOARDS, TYP
C	1.5" X 5.5" or 7" X 0.09" RAILS, TYP.
D	2" X 7" X 0.12" PVC FRAME, TYP.
E	LATTICE PANEL
F	WELDED/FUSE MITER ENDS UP TO 5' WIDE, SEE FRAME REINFORCEMENT DETAIL BEYOND
G	7/8" X 6"-11" X 0.055 TUBE SLATS

### FOOTER TABLES

HVHZ AND NON-HVHZ NON-COASTAL APPLICATIONS AS PERMITTED\* (EXPOSURE C)

FENCE HEIGHT	MAX POST SPAN, FT	FOOTER REQUIREMENTS (DIA. x DEPTH, IN.)
72"	6	24 x 39
60"	6	24 x 35
48"	6	18 x 35
60"	5	10 x 24
72"	4	10 x 24

HVHZ AND NON-HVHZ COASTAL APPLICATIONS AS PERMITTED\* (EXPOSURE D)

FENCE HEIGHT	MAX POST SPAN, FT	FOOTER REQUIREMENTS (DIA. x DEPTH, IN.)
72"	6	24 x 43
60"	6	24 x 38
48"	6	18 x 37
60"	5	10 x 24
72"	4	10 x 24

WHERE NON-HVHZ, NON-COASTAL APPLICATIONS ARE REQUIRED AT PEAK WIND\* (EXPOSURE C)

FENCE HEIGHT	MAX POST SPAN, FT	FOOTER REQUIREMENTS (DIA. x DEPTH, IN.)
72"	6	24 x 43
60"	6	24 x 42
48"	6	24 x 39

WHERE NON-HVHZ, COASTAL APPLICATIONS ARE REQUIRED AT PEAK WIND\* (EXPOSURE D)

FENCE HEIGHT	MAX POST SPAN, FT	FOOTER REQUIREMENTS (DIA. x DEPTH, IN.)
72"	6	24 x 46
60"	6	24 x 45
48"	6	24 x 43

NOTES:  
1. FOOTING DIMENSION LISTED AS DIAMETER OF A ROUND FOOTING OR THE THE DIMENSIONS OF A SQUARE FOOTING.  
2. \* FOOTERS DESIGNED PER FBC CHAPTER 2328 INSIDE THE HVHZ AND CONSIDERED VALID FOR USE OUTSIDE HVHZ AS PERMITTED BY THE GOVERNING AUTHORITY HAVING JURISDICTION. IN EITHER CASE, THE PRODUCT MAY LIST BUT STAY IN TACT IN SATURATED SOIL AT PEAK WINDS AND IS STILL CONSIDERED PROPERLY DESIGNED.

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PVC FENCE AND GATE MASTER PLAN SHEET  
FLORIDA BUILDING CODE SIXTH EDITION (2017)  
ASCE 7-10  
SOLID FREESTANDING SIGN METHOD

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