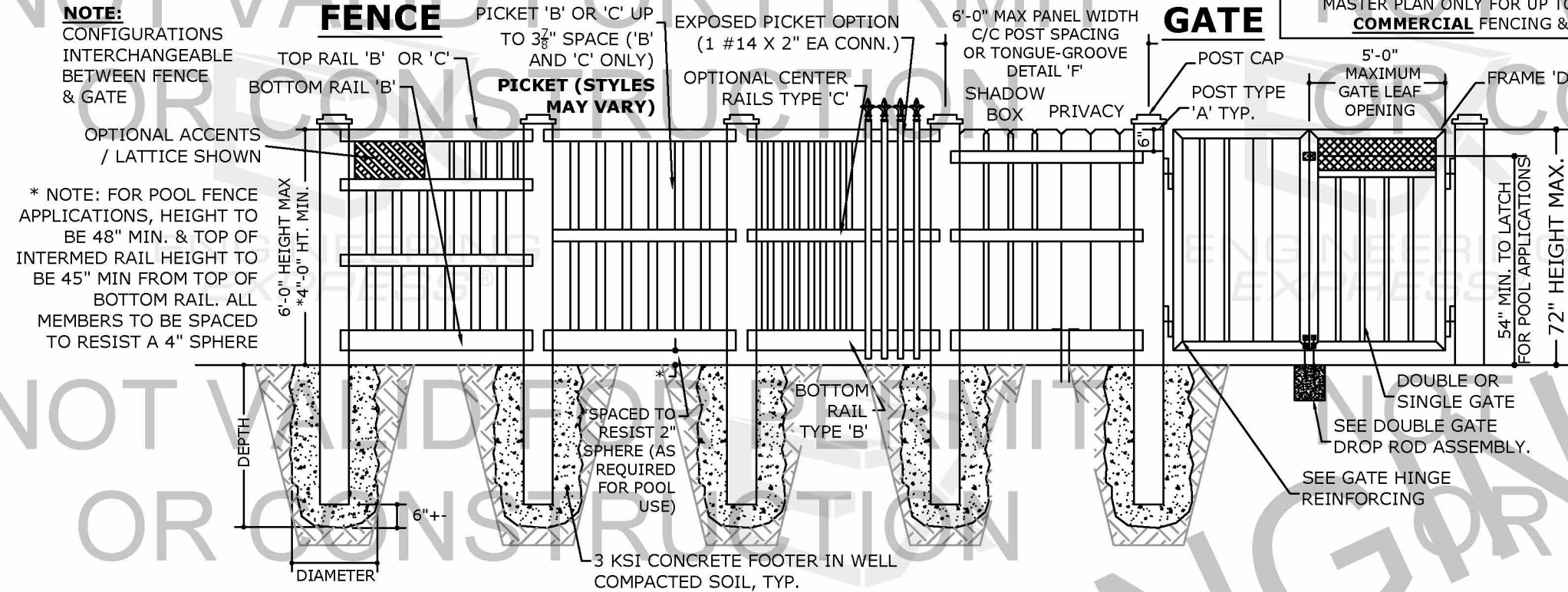


PVC FENCE & GATE PERFORMANCE EVALUATION

500 FT RESIDENTIAL OR COMMERCIAL USE - DECORATIVE BARRIER, GROUND LEVEL, NON-SLOPED. SEE NOTES FOR POOL APPLICATIONS



THIS IS A GENERIC, NON-SITE-SPECIFIC PERFORMANCE EVALUATION. IT IS TO BE USED ALONG WITH A DESIGN PROFESSIONAL'S SITE-SPECIFIC EVALUATION & CERTIFICATION FOR NO CERTIFICATION IS OFFERED FOR USE WITHOUT A SITE SPECIFIC PLAN UNDER SEPARATE CERTIFICATION. VALID AS A GENERIC SEALED MASTER PLAN ONLY FOR UP TO 500FT OF RESIDENTIAL OR COMMERCIAL FENCING & 2 GATES AT (1) LOCATION.

SPACE RESERVED FOR DIGITAL SEAL INFORMATION

WHEN DIGITALLY SEALED, THIS NOTE SHALL BE FULLY COVERED ON SHEET 1

WHEN PRINTED OR PHYSICALLY SEALED, SEAL OF CERTIFYING ENGINEER, AND DATE OF CERTIFICATION SHALL BE SHOWN TO THE RIGHT.

IN ALL CASES, CERTIFYING ENGINEER AND CERT OF AUTH AS LISTED ON STAMP

PE SEAL REQUIRED

COPIES NOT VALID FOR PERMIT

GENERAL NOTES

DESIGN

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 7TH (2020) EDITION. ALSO APPLICABLE FOR THE INTERNATIONAL BUILDING CODE (2018 & 2021), AS WELL AS CURRENT VERSIONS OF THE MN, NC, NJ, NY, OH, SC, & VA BUILDING CODES AS APPLICABLE. CODE ENFORCED COMPLIES WITH STATE OF SEAL AND IF MULTIPLE VERSIONS ARE LISTED THEN MOST STRINGENT APPLIES.
- DESIGN BASED ON ASCE 7-(10/16) USING $V_{ult} = 115\text{MPH} / V_{asd} = 90\text{MPH}$ (3 SEC GUST, UP TO 6'-0" HEIGHT EXPOSURE 'C' OR 'D' AS SHOWN, RISK CATEGORY I.
- FOOTING SIZES BASED ON CODE MINIMUM STANDARD OF CARE REF. IN FBC 2328. SEE TABLE NOTES FOR MORE INFORMATION.
- PRODUCT APPROVED FOR USE IN SEISMIC DESIGN CATEGORY A-B PER REQUIREMENTS OF ASCE 7-16 AND CALIFORNIA BUILDING CODE 2019. FOR SEISMIC DESIGN CATEGORY C-F AND ANY CONCRETE CONNECTIONS, ADDITIONAL REVIEW BY THIRD-PARTY ENGINEERS IS REQUIRED FOR THE VALIDITY OF THE DESIGN.
- THIS FENCE DESIGN TO BE USED AT FLAT TERRAIN GROUND SURFACE ONLY, WITH USE LIMITED TO DECORATIVE BARRIER PURPOSES ONLY.

THIS FENCE IS NOT INTENDED TO MEET CODES GOVERNING ELEVATED BALCONIES, STRUCTURAL RAILINGS, OR DROPOFFS GREATER THAN 30" ON LAND.

FOR NON-POOL APPLICATIONS REQUIRING EGRES:

PER FLORIDA FIRE PREVENTION CODE & NFPA 1, 101, GATES REQUIRING EGRESS SHALL HAVE NO LATCHES AND BE FREE SWINGING FOR QUICK EGRESS BY PUSHING ON THE DOOR ONLY. THE GATE SHALL HAVE A HINGE THAT SPRINGS CLOSED ONLY.

MATERIALS

- PVC INFORMATION:** ALL PVC RESIN TO BE ASTM01784 EXTRUDED D638 FLEX STR. 9600PSI D790. ALL TO CONFORM TO ASTM F 964 FOR RIGID POLYVINYL PROFILES.
- ALL CONCRETE AND EPOXY TO REACH A MIN. COMPRESSIVE STRENGTH OF 3000 PSI IN 7 DAYS. CONCRETE FOOTERS SHALL CONTAIN MINIMUM 0.1% FIBERMESH CONTENT PER CUBIC YARD.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- SURROUNDING SOIL TO BE COMPACTED TO 90% 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.
- THIS PRODUCT MAY LIST BUT STAY INTACT IN SATURATED SOIL AT PEAK CONDITIONS & IS STILL CONSIDERED PROPERLY DESIGNED.
- PER FBC 454.2.17.1.8: POOL 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.
- ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.

OTHER

- 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 & APPELATE 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.
- THIS DOCUMENT IS GENERIC AND DOES NOT PERTAIN TO ANY SPECIFIC PROJECT SITE. INFORMATION CONTAINED HEREIN IS BASED ON CONTRACTOR-SUPPLIED DATA AND MEASUREMENTS. ENGINEERING EXPRESS SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS. DIMENSIONS ARE SHOWN TO ILLUSTRATE DESIGN FORCES AND OTHER DESIGN CRITERIA. THEY MAY VARY SLIGHTLY, BUT MUST REMAIN WITHIN THE LIMITATIONS SPECIFIED HEREIN. WORK SHALL BE FIELD VERIFIED BY OTHERS PRIOR TO CONSTRUCTION. ENGINEERING EXPRESS SHALL BE NOTIFIED AND GIVEN AN OPPORTUNITY TO REEVALUATE OUR WORK UPON DISCOVERY OF ANY INACCURATE INFORMATION PRIOR TO MODIFICATION OF EXISTING FIELD CONDITIONS AND FABRICATION AND INSTALLATION OF MATERIALS. ALTERATIONS OR ADDITIONS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

CALL 811 BEFORE YOU DIG OR VISIT WWW.CALL811.COM

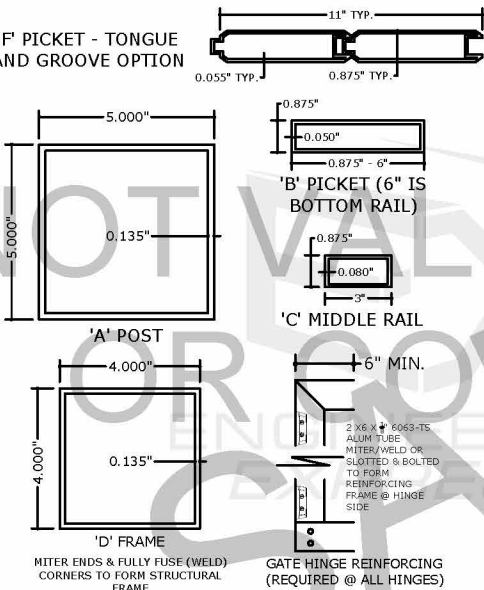


VISIT ECALC.IO/SAFEGUARDS

FOR CERTIFIED ORIGINALS FOR PERMIT, VARIATIONS & HELPFUL INFORMATION VISIT ENGINEERINGEXPRESS.COM/STORE FOR MORE PLANS LIKE THIS



COMPONENTS

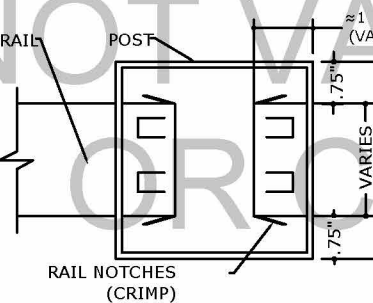


POST - NOTCH DETAIL

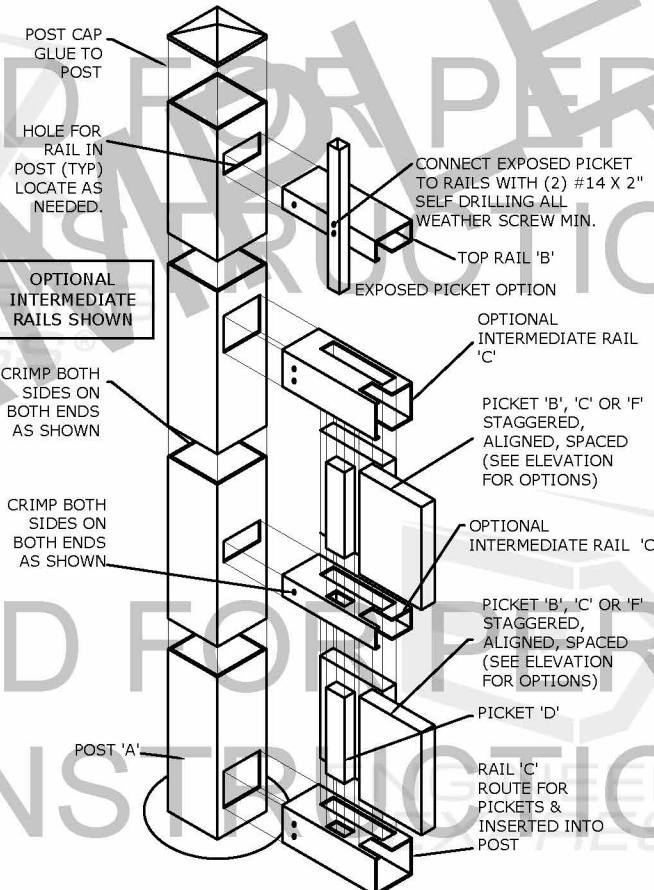
(POST CAP & RAIL RECEPTICLES)

HOLES TO BE PUNCHED TO FIT RAIL AND CAP COMPONENTS LISTED HEREIN.

USE STANDARD NOTCHING TOOL. NOTCHES MAY BE TOP & BOTTOM OR SIDES, TYPICAL ALL.



TYPICAL CONNECTION ISOMETRIC



FOOTING TABLE

FOOTING REQUIREMENTS (DIAMETER x DEPTH, IN.)					
FENCE/GATE HEIGHT	AVERAGE POST SPAN				
	72" (6'-0")	60" (5'-0")	48" (4'-0")	96" (8'-0")*	
72"	12 x 36	12 x 24	10 x 24	14 x 40	
60"	12 x 30	10 x 24	10 x 24	12 x 36	
48"	10 x 24	10 x 24	10 x 24	12 x 30	

FOOTING TABLE NOTES:

- VALID FOR USE IN EXPOSURES 'C' & 'D' INSIDE & OUTSIDE THE FLORIDA HIGH VELOCITY HURRICANE ZONE (HVHZ, DADE & BROWARD COUNTIES).
- FOOTING DIMENSION (DIAMETER) SHALL BE EITHER THE DIAMETER OF A ROUND OR DIMENSIONS OF A SQUARE FOOTING.
- THE PRODUCT MAY LIST BUT STAY IN TACT IN SATURATED SOIL AT PEAK WINDS AND IS STILL CONSIDERED PROPERLY DESIGNED.
- IN HVHZ, TOP OF FOOTINGS TO BE 8" BELOW GRADE.
- 'AVERAGE POST SPAN' IS DEFINED AS HALF THE DISTANCE TO THE LEFT + HALF THE DISTANCE TO THE RIGHT OF EACH POST.
- FOR DOUBLE GATES, HALF THE DISTANCE IS TO THE NEXT POST.
- LOWER BOTTOM OF FOOTING BELOW ANY LOCAL REQUIRED FROST LINE.

GATE HARDWARE

