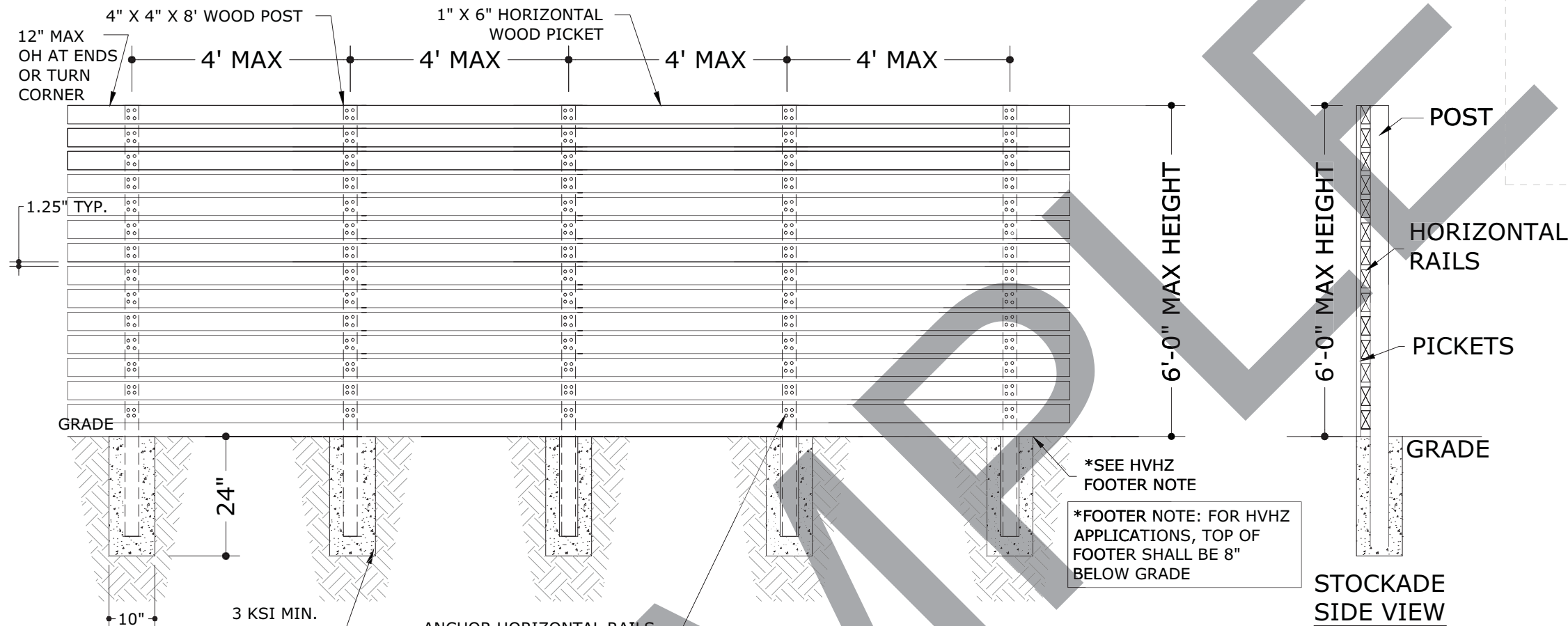
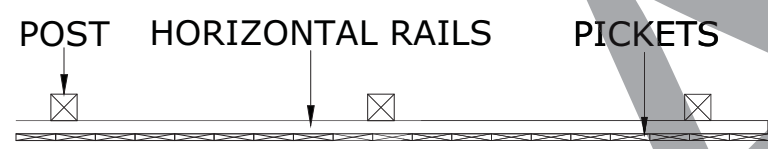


AT-GRADE WOOD FENCE MASTER PLAN

HORIZONTAL SLAT APPLICATION - (NON-STRUCTURAL, DECORATIVE BARRIER, TYPICAL INSTALLATION (GROUND LEVEL ONLY))



STOCKADE ELEVATION



STOCKADE PLAN VIEW

GENERAL NOTES

1. THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE SIXTH EDITION (2017).
2. DESIGN BASED ON ASCE 7-10 USING $V_{ult} = 115\text{MPH} / V_{asd} = 90\text{MPH}$ (3 SEC GUST, UP TO 6'-0" WITHIN HVHZ), $V_{ult} = 156\text{MPH} / V_{asd} = 121\text{MPH}$ (3 SEC GUST, OUTSIDE HVHZ), EXPOSURE 'D' & 'C', RISK CATEGORY I, USING THE 'SOLID FREESTANDING SIGN METHOD'.
3. THIS FENCE DESIGN TO BE USED AT GROUND SURFACE ONLY WITH NO DROPOFF ON EITHER SIDE, WITH USE LIMITED TO DECORATIVE BARRIER PURPOSES ONLY. THIS FENCE IS NOT INTENDED TO MEET CODES GOVERNING ELEVATED BALCONIES OR STRUCTURAL RAILINGS.
2. ALL LUMBER SHALL BE A MINIMUM OF PRESSURE TREATED #2 SYP OR BETTER WITH A MINIMUM FIBER STRESS OF 1100PSI IN BENDING.
3. 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 5.1.1C, SPECIFICATIONS FOR ALUM. STRUCTURES -SECTION 1, THE ALUMINUM ASSOCIATION, INC., & APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
4. 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.
5. SURROUNDING SOIL TO BE COMPACTED TO 95% OPTIMUM DENSITY, 2500 PSF MIN AND SHALL BE CLASSIFIED OR VERIFIED BY OTHERS PRIOR TO CONSTRUCTION PER FBC 1806.2 AND SHALL BE SANDY GRAVEL CLASS ONLY.
6. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
7. ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.
8. 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.
9. 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.
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07/24/2018

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HORIZONTAL SLAT WOOD FENCE MASTER PLAN SHEET
 6TH EDN 2017 FLORIDA BUILDING CODE

| REMARKS | DRWN | CHKD | DATE |
|-----------------------------|------|------|----------|
| UPDATE FOR 2017 FBC CLEANUP | JAC | FLB | 04/18/18 |
| | FLB | FLB | 7/24/18 |

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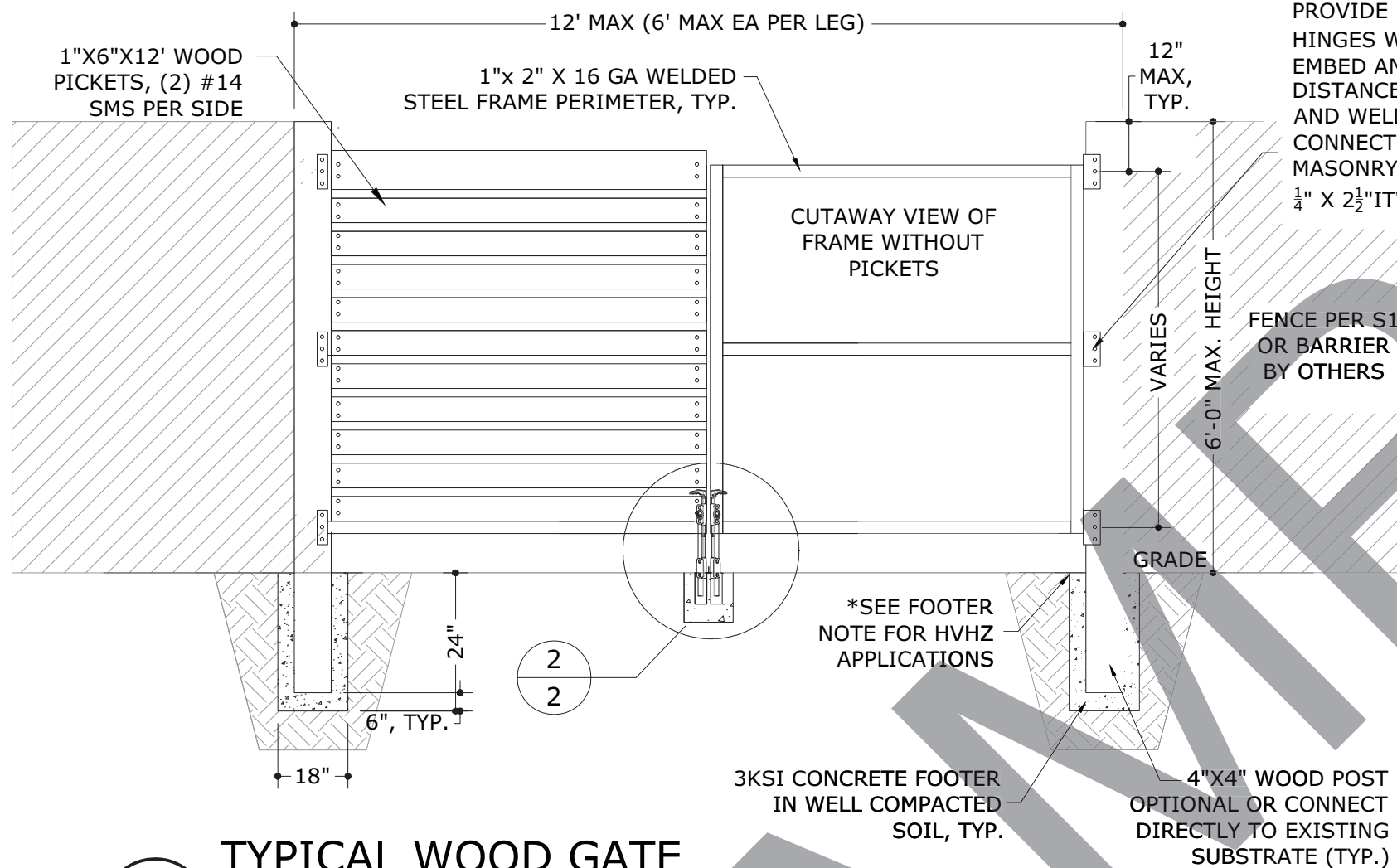
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frankb

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AT-GRADE WOOD GATE MASTER PLAN SHEET

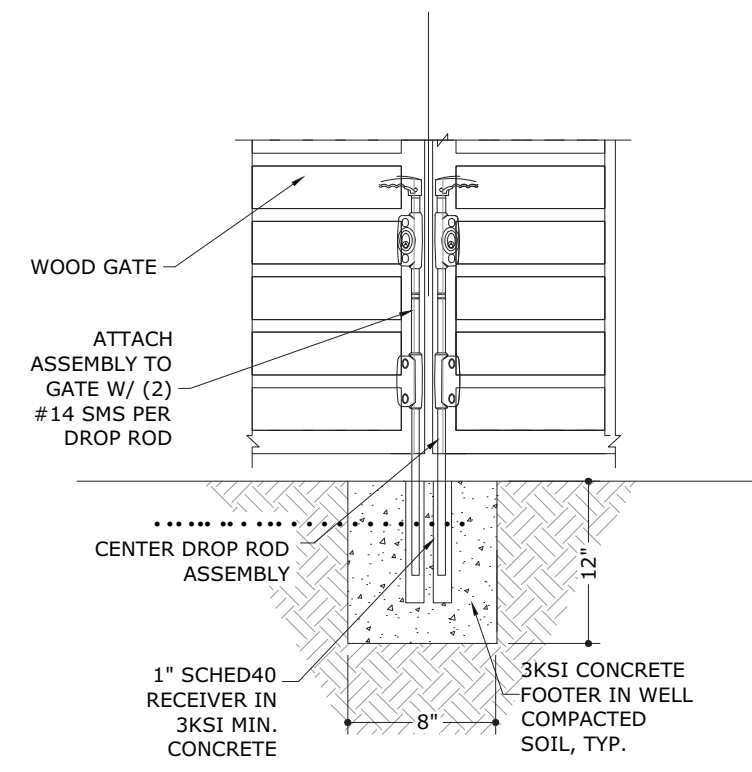
(SINGLE OR DOUBLE GATE) NON-STRUCTURAL, DECORATIVE BARRIER, TYPICAL INSTALLATION (GROUND LEVEL ONLY)
HORIZONTAL SLAT CONFIGURATION



PROVIDE 16GA STEEL "T" HINGES W/ (3) 1/4" LAGS X 2" EMBED AND 3/4" EDGE DISTANCE INTO WOOD POST AND WELDED TO GATE FRAME CONNECT TO EXIST FILLED MASONRY OR CONC. WITH (3) 1/4" X 2 1/2" ITW TAPONS OR EQ.

*FOOTER NOTE: FOR HVHZ APPLICATIONS, TOP OF FOOTER SHALL BE 8" BELOW GRADE

GATES SHALL BE IN A SECURED POSITION DURING ALL WINDSTORM EVENTS



1 TYPICAL WOOD GATE (DOUBLE SWING GATE SHOWN)
2 N.T.S. ELEVATION VIEW

2 DROP ROD ASSEMBLY
2 N.T.S. ELEVATION VIEW

POOL & EGRESS NOTES

NOTE: DOUBLE GATE AS SHOWN NOT FOR POOL APPLICATIONS. FOR POOL USE INSTALLATION MUST COMPLY WITH GATE LATCH AND EGRESS REQUIREMENTS:

FOR POOL APPLICATIONS, 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.

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

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