

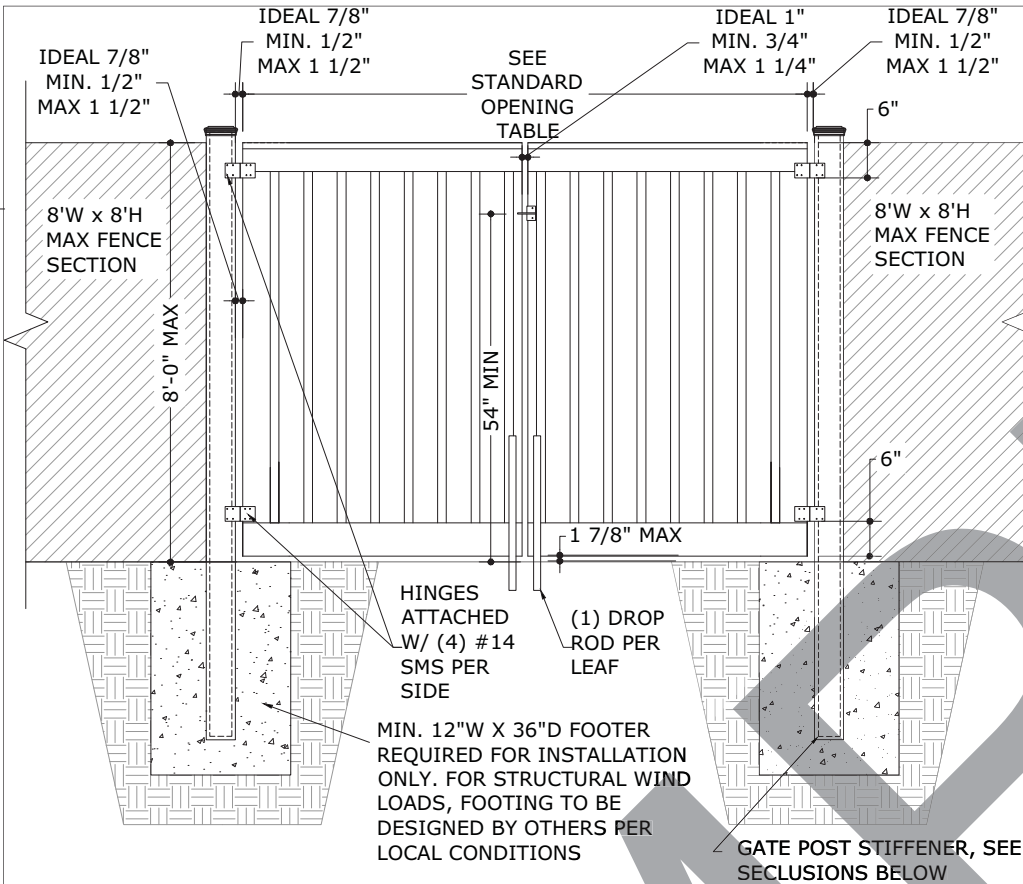
V:\Projects\15-2692 Multiple Fence and Gate Design - Existing Master Sheet - Update 13-FENCE\WP\2018 Updates\15-2692b_c - (02) MPS 6'-8' HT GATE (FL).dwg 03/13/2018 - 10:33am intern1

6'-8' TREX SECLUSIONS COMPOSITE SINGLE AND DOUBLE GATE MPS

Trex Fencing Standard Gate Opening	Gate Opening	Gate Hardware Tolerance
Standard Single Gate	46-1/4"	1-7/8"
Large Single Gate	65-3/4"	1-7/8"
Standard Double Gate	90-1/2"	2-3/4"
Large Double Gate	130-1/2"	2-3/4"

DESIGN PRESSURE & REQUIRED FOOTER MOMENT				
Post Height (ft)	Vult (mph)	DP (psf)	Req. Moment for 46-1/4" Gate Leaf (lb-ft)	Req. Moment for 65-3/4" Gate Leaf (lb-ft)
6	110	16.3	1760	2054
6	115*	19	2052	2394
6	130	22.8	2462	2873
6	145	28.4	3067	3578
6	165	36.8	3974	4637
6	180	43.8	4730	5519
6	180	43.9	4741	5531
8	110	16.5	3168	3696
8	115	18.1	3475	4054
8	130	23.1	4435	5174
8	145	28.7	5510	6429
8	165	37.2	7142	8333
8	180	44.3	8506	9923

*REQUIRED WINDSPEED IF WITHIN HVHZ

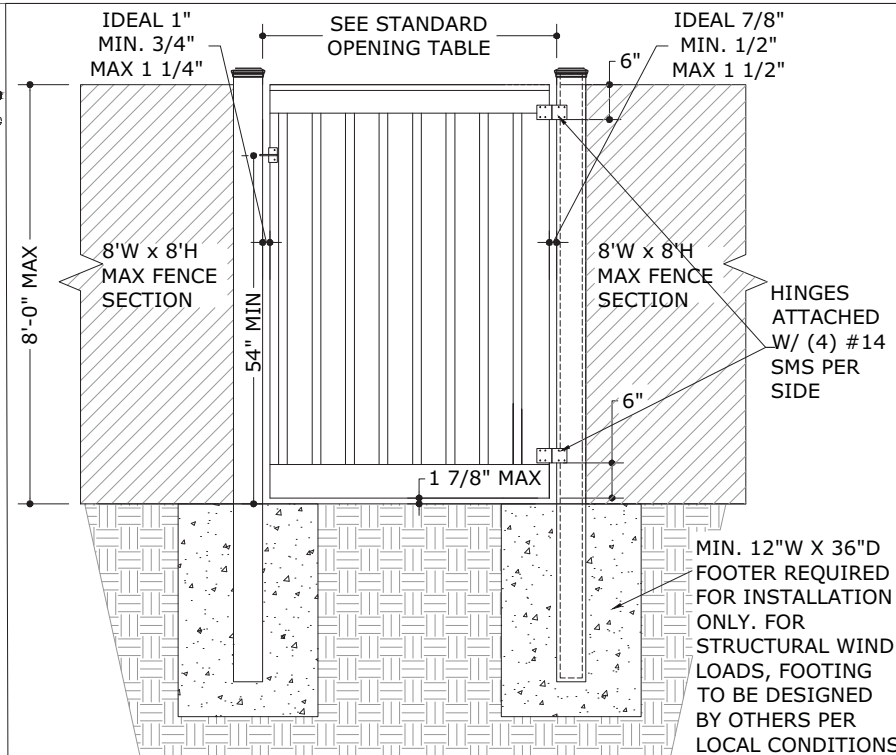
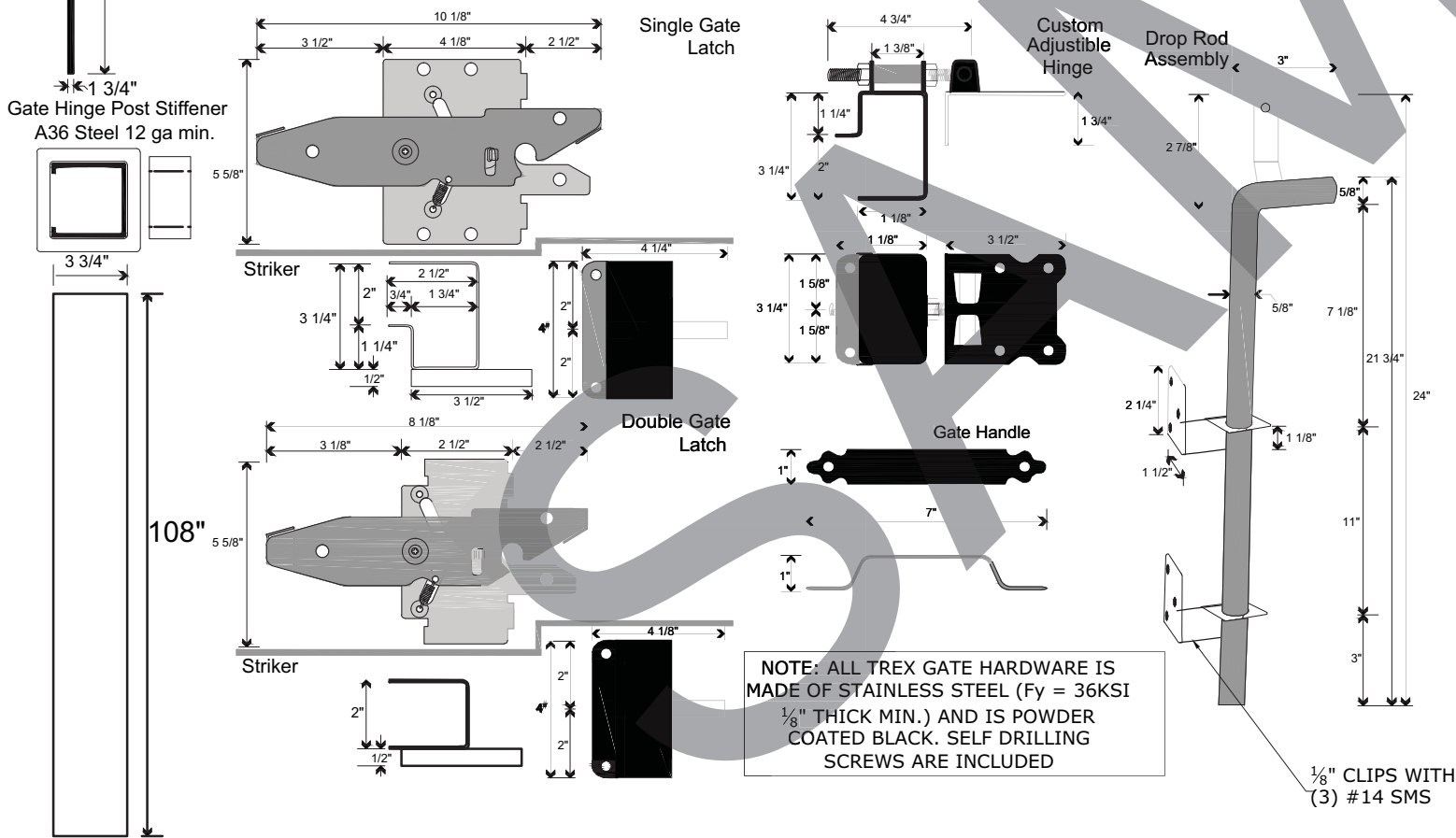


1 COMPOSITE DOUBLE GATE
1 SCALE: NTS
ELEVATION VIEW

GENERAL NOTES

- THIS STRUCTURE HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE STRUCTURAL PROVISIONS OF THE FLORIDA BUILDING CODE SIXTH EDITION (2017). STRUCTURE SHALL BE FABRICATED IN ACCORDANCE WITH ALL GOVERNING CODES. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY AND GOVERN. DESIGN CRITERIA OR SPANS BEYOND STATED HEREIN MAY REQUIRE ADDITIONAL SITE SPECIFIC SEALED ENGINEERING.
- DESIGN BASED ON ASCE 7-10 USING V_{ult} = SEE DESIGN PRESSURE TABLES (3 SEC GUST), EXPOSURE 'C', RISK CATEGORY 1, USING THE SOLID SIGN METHOD, 0% OPEN USED IN CALCULATIONS.
- 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.
- COMPOSITE WOOD MATERIAL INFORMATION** : ALL COMPOSITE WOOD MATERIAL TO HAVE A FLEX STR. OF 4000PSI MIN.
- 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 98% 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.
- 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.
- 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.

TREX SECLUSIONS® GATE PROFILES



2 COMPOSITE SINGLE GATE
1 SCALE: NTS
ELEVATION VIEW

FRANK L. BENNARDI, P.E.
PE# 0046549

03/13/2018

IF CHECKED, CERTIFYING P.E. APPEARS BELOW
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TREX FENCING 6'-8' GATE MPS
FLORIDA BUILDING CODE
ASCE 7-10 'SOLID SIGN METHOD' 0% OPEN

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SCALE: NTS UNLESS NOTED

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