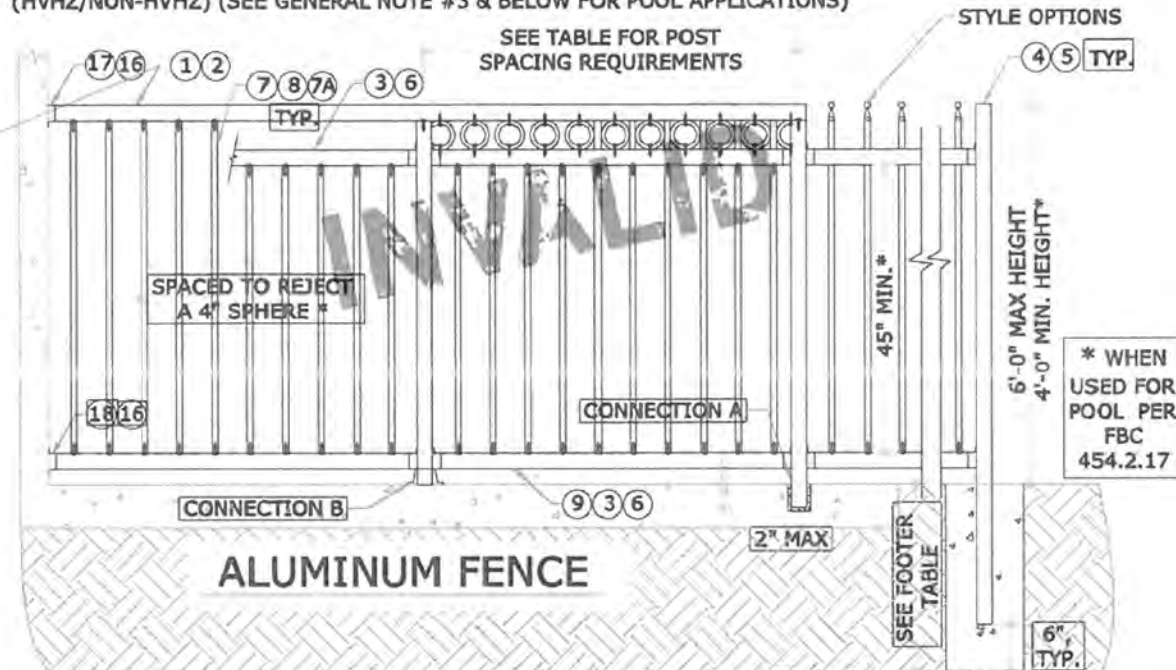


MECHANICAL ALUMINUM FENCE & GATE MAS

(NON-STRUCTURAL, DECORATIVE BARRIER, TYPICAL INSTALLATION (GROUND LEVEL NON-SLOPED ONLY) (HVHZ/NON-HVHZ) (SEE GENERAL NOTE #3 & BELOW FOR POOL APPLICATIONS)

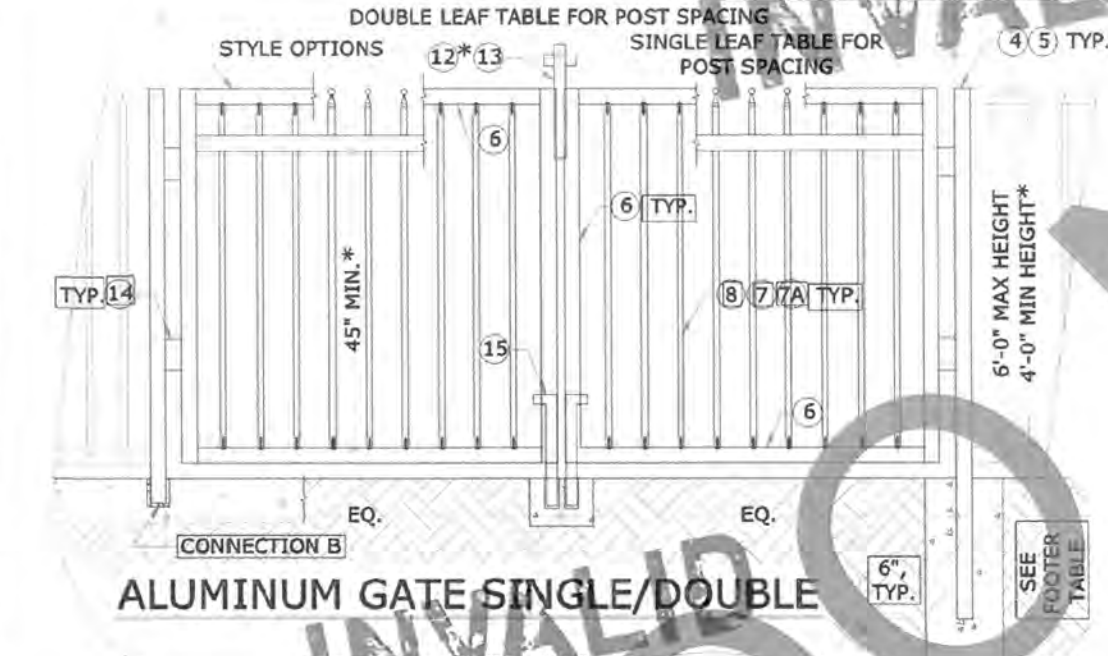


CONNECTION A (CORE DRILL):
3" Ø CORE DRILL, 3" DEEP INTO CONCRETE, & 6" MIN. EDGE DISTANCE FROM CENTER TO ANY CONCRETE FACE, FILLED WITH HIGH STRENGTH, NON-SHRINK, IRON FREE, NON-REACTIVE GROUT.

CONNECTION B (SHOE):
PRE-MANUFACTURED 5"X5"X3/4" ALUM SHOE ANCHORED WITH (4) 1/4" Ø ITW TAPCON EMBEDDED 1-3/4" INTO CONCRETE & 3" EDGE DISTANCE.

CONNECTION C (FOOTING):

POST HEIGHT	POST SPACING		
	4'-0"	5'-0"	6'-0"
48"	10"x24"	10"x24"	12"x26"
60"	10"x24"	10"x24"	12"x30"
72"	10"x24"	12"x30"	12"x30"

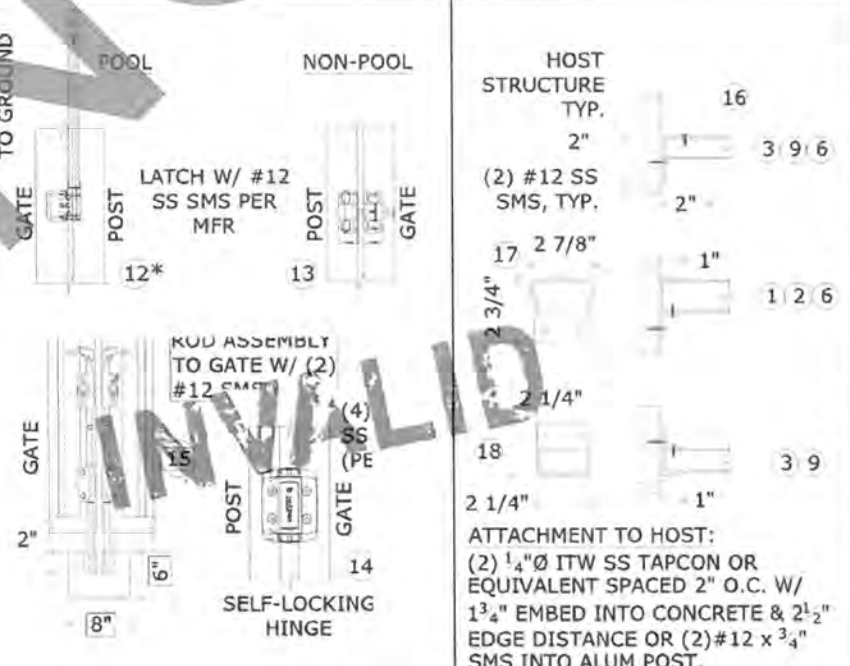
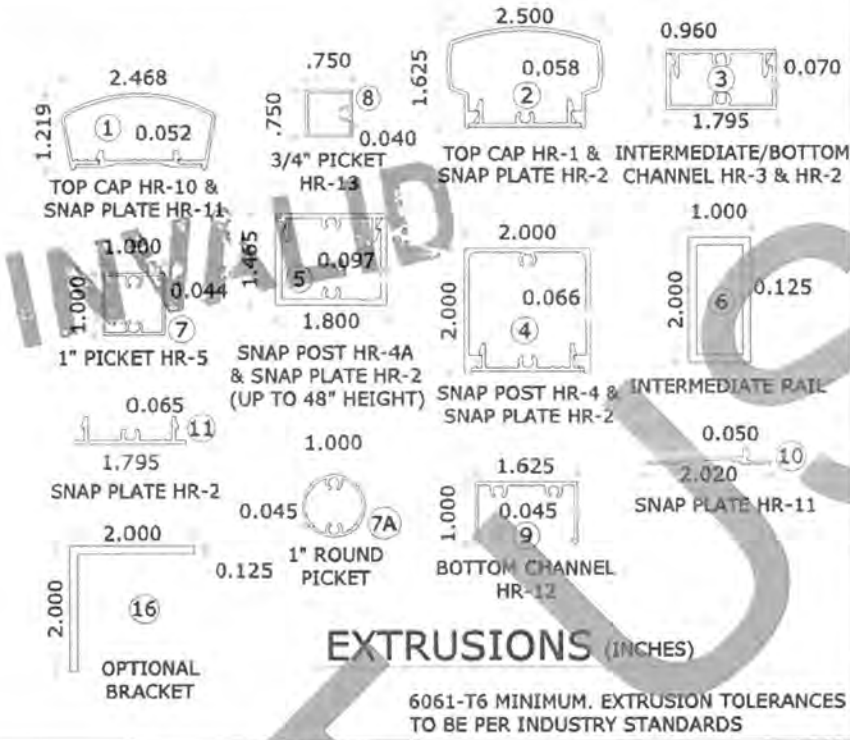


NOTE:
FOR DOUBLE LEAF TABLE ASSUMES 6' MAX WIDTH FENCE BEYOND GATE.

GATE FOOTER TABLE:

POST HEIGHT	SINGLE LEAF TABLE (DIA. x DEPTH):			DOUBLE LEAF TABLE:		
	4'-0"	5'-0"	6'-0"	8'-0"	9'-0"	10'-0"
48"	10"x24"	10"x24"	12"x26"	12"x25"	12"x26"	12"x26"
60"	10"x24"	10"x24"	12"x28"	12"x30"	15"x27"	18"x27"
72"	10"x24"	12"x30"	12"x30"	12"x32"		

FENCE/GATE FOOTING NOTES:
DIMENSION "DIA" SHALL BE EITHER THE DIAMETER OR SIDE OF A SQUARE FOOTING. FOOTERS DESIGN ON FBC CHAPTER 2328 HVHZ, THEREFORE VALID FOR NON-HVHZ IN EXPOSURE 'C' & 'D'. THE FENCE MAY STAY INTACT IN SATURATED SOIL AT PEAK WINDS AND IS STILL CONSIDERED PROPERLY DESIGNED. SNAP POST HR-4A & SNAP PLATE HR-2 (PERMITTED ONLY FOR POST HEIGHTS UP TO 48")



GATE HARDWARE FENCE BRACKETS

GENERAL NOTES:

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE WITH EDITION (2017).
- DESIGN BASED ON ASCE 7-10 USING $V_{ult} = 115\text{MPH} / V_{des} = 90\text{MPH}$ (3 SEC GUST, UP TO 6'-0" WITHIN HVHZ), EXPOSURE 'D', RISK CATEGORY I, USING THE 'OPEN SIGN METHOD'. 70% OPEN USED IN CALCULATIONS. SEISMIC DESIGN DOES NOT GOVERN.
- 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.
- THIS FENCE DESIGN TO BE USED AT LEVEL 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.
- 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 ANY APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
- ALL EXTRUDED MEMBERS SHALL BE ALUMINUM ALLOY TYPE 6061-T6 OR BETTER, U.N.O.
- ALL CONCRETE SHALL BE UNCRACKED ONLY WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI U.N.O. AND SHALL BE MINIMUM 1.5X THICKER THAN ANY MEMBER EMBEDMENT. ALL EPOXY AND GROUT SHALL MEET OR EXCEED COMPRESSIVE STRENGTH OF THE CONCRETE AND SHALL BE IRON-FREE, NON-SHRINK AND NON-REACTIVE. CONCRETE FOOTERS SHALL CONTAIN MIN 0.1% FIBERMESH ADMIXTURE PER CY.
- 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.
- FOR ALUMINUM ATTACHMENTS ALL ANCHORS SHALL BE SPACED WITH 2xDIAMETER END DISTANCE AND 2.5xDIAMETER MIN SPACING TO ADJACENT ANCHORS, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- 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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ALUMINUM FENCE
MECHANICALLY ATTACHED
MASTER PLAN SHEET
AT GRADE
FLORIDA BUILDING CODE
SIXTH EDITION
(2017)

REMARKS	DRWN	CHKD	DATE
INT ISSUE	ETP	TBS	03/15/12
2014 FBC UPDATE	JAC	TSB	06/10/15
UPDATE PLAN & DETAILS	JAC	FLB	02/29/16
2017 FBC UPDATE	JAC	FLB	01/03/18

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