AL-MAR
Vinyl Products

WARNING!

Important Information regarding the care, use and warranty of this vinyl product is included in this set of instructions

It is imperative that the homeowner gets this document after installation

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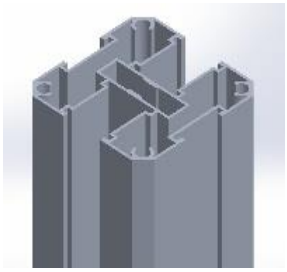
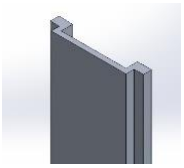
HYBRID FENCE COMPONENTS

3-inch H Posts 9ft or 11ft long
Part # AV23P9 (9ft) and AV23P11 (11ft)



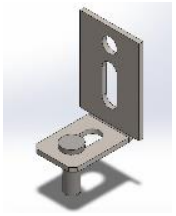
These H posts are either concreted in the ground or cut to size for surface mount applications. If surface mounted, they require the base plate and base trims to be installed at the bottom of the post.

Filler Strip 7ft
Part # AV2FIL7



The filler strip is used for filling any unused exposed pocket in the H posts, i.e. end posts, gate posts, corner posts, and optionally at the top of the H post between the top rail and the post cap. It is also used as a spacer for accent rails at the top of the fence. This profile is cut to size on site as required (usually 2”). One filler strip will do approx. 20 sections of fence with no accent or 14 sections if using a double accent.

Rail Clip
Part # AV2CLIP



The clips are used in the H post to support the bottom rail at the desired location (flange facing down) and to hold down the top rail (flange facing up). They are also used in the U channel when doing a 90-degree corner or universal corner (flange facing up). They are attached to the post using 2- #10 x .5” self drillers. The first screw goes in the slotted hole to allow minor adjustments, and the second screw goes into the round hole to lock it in place. When mounted in the U channel, #10 x 1” self drillers are required.

To hold the top rail down, a #10 x .5” self driller is used to attach the clip to the top rail.

Bottom/Middle Rail 70.5”
Part # AV2BMR705-V – For VINYL infill ONLY
Part # AV2BMR705-W – For WPC infill ONLY

This 7/8 x 3-inch rail is used at the bottom of every section. It sits on the clips that are screwed to the post. It does not need to be attached to the clip.

This rail is also used as a middle accent rail anywhere in the section as desired.
No clips are required for a middle rail.
This rail is also used when building standard gates.
*Some variance in the length of this rail from factory may occur. Trim to 70.5” to maintain 71” C-C post spacing.

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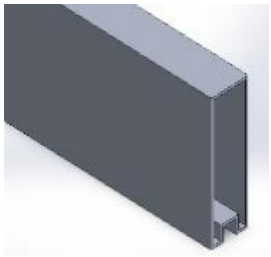
Top/Accent Rail 70.5" or 122"
Part # AV2TAR705 (70.5") / AV2TAR122 (122")

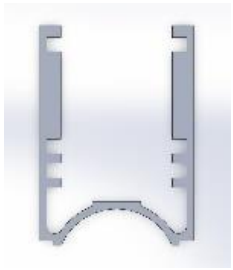


The 70.5" Rail is used as a top rail or accent rail(s) for both vinyl and WPC infill. When used as a top rail it is held in place by sliding the clips down the slot in the H post and attaching with #10 x .5" self drillers. When used as an accent rail, no clips are required. Short pieces of filler strip are used to space the accent rails at the desired location.

This rail is also used when building standard gates.
It can also be used as a header over a single gate opening. It spans from one gate post to the next to stop the gate posts from tipping towards each other due to the weight of the gate hanging off the post.
It is attached using the same clips and screws as the Top Rail.
*Some variance in the length of this rail from factory may occur. Trim to 70.5" to maintain 71" C-C post spacing.

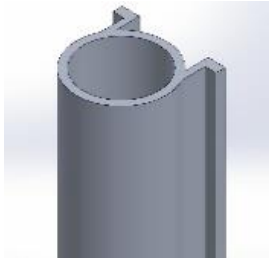
The 122" Rail is cut to size to be used as a header over a double gate opening.

U Channel 78"
Part # AV2UCHAN78



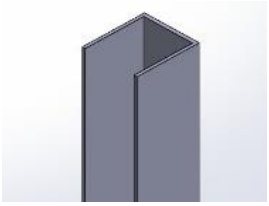
This U Channel attaches to the post at a 90-degree corner or the Universal angle adapter using #10 x 1" self drillers at 2ft spacing. It is cut to length on the jobsite to suit the fence height. See Hybrid Fence Height Chart for appropriate length.

Universal Adapter 78"
Part # AV2UN78



This channel (adapter) attaches to the slot in the H post by sliding it down from the top of the post. It is cut to length on the jobsite to match the fence height and is held up by putting a #10 x 1" self driller in the filler strip slot immediately below the bottom of the adapter. See Hybrid Fence Height Chart for appropriate length.

WPC Adapter 6'
Part # AV2WPCA6



This U channel (adapter) is used to reduce the 7/8" slot in the H post to 3/4" when using WPC pickets. They are cut to length to suit the fence height and held in place by using 3- #10 x .5" self drillers.
This U channel is installed in between the rails, after rails are installed.

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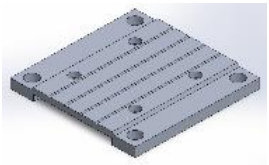
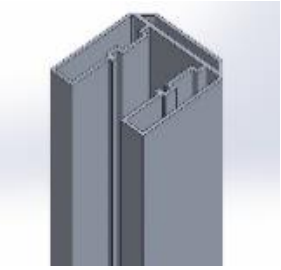
3" Base plate with bolts
Part # AV23BPK



HYBRID GATE COMPONENTS

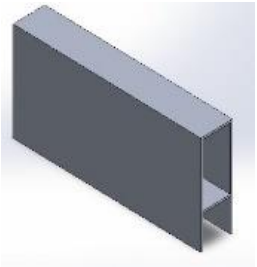
Gate Side 78" or 96 "
Part # AV2GS78 (78") and AV2GS96 (96")

This profile is cut to length and used for the sides of a gate. Take the height of the fence (bottom of bottom rail to the top of the top rail) and add 2".



Gate top and bottom rail 8' (Custom Height)
Part # AV2GTBR8

This part is cut to length and used for the top and bottom rail of a custom gate.

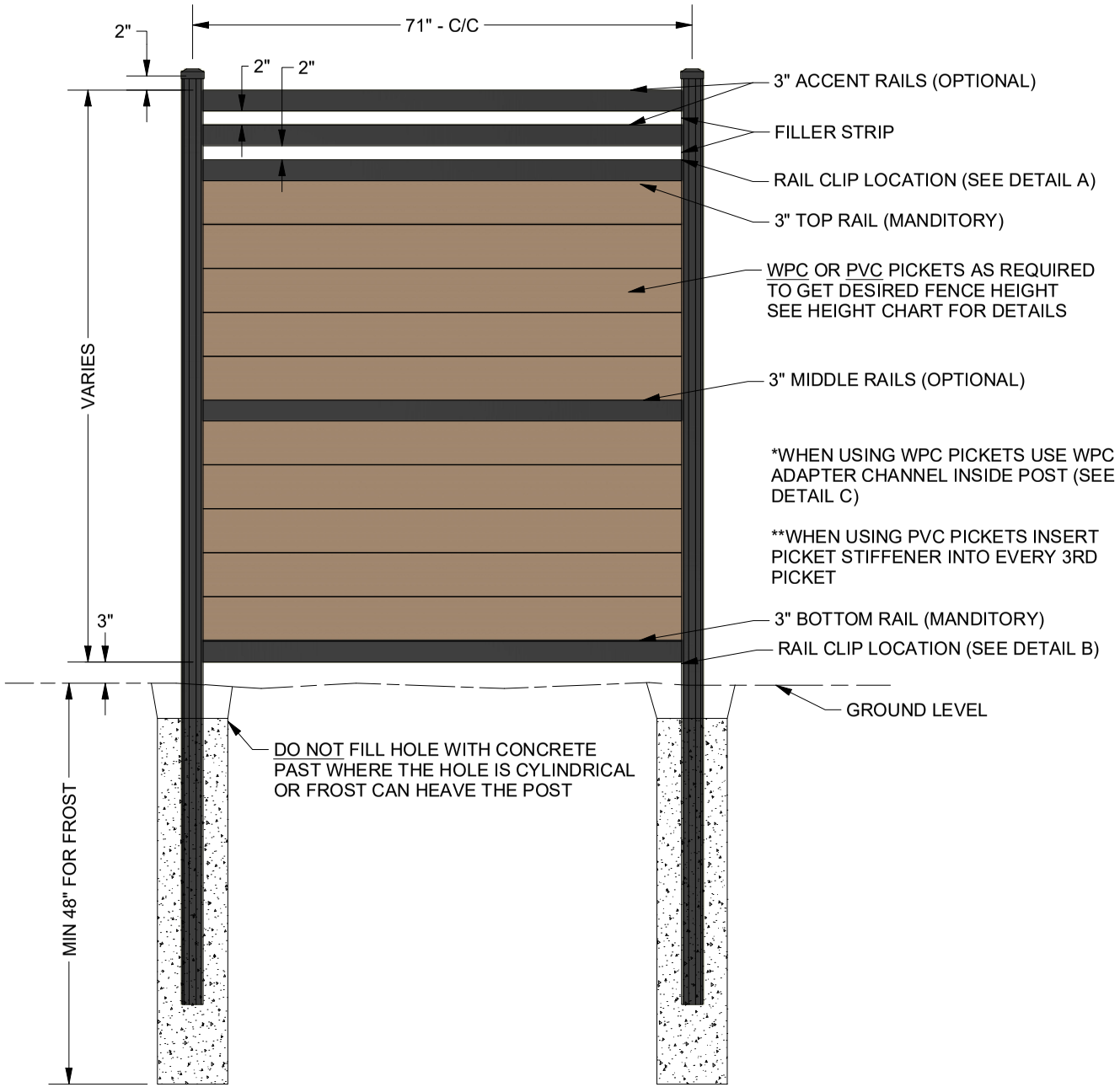


A custom gate is where 1 or more of the pickets need to be ripped to make the gate a specific height. Since either the tongue or the groove will be missing on a picket(s), the standard rails will not work. The pickets insert into this part 1". If using WPC pickets, a WPC adapter should be used.
For standard gates i.e. gates that match the fence style with full pickets, standard bottom/middle and top/accent rails are used to build the gate.

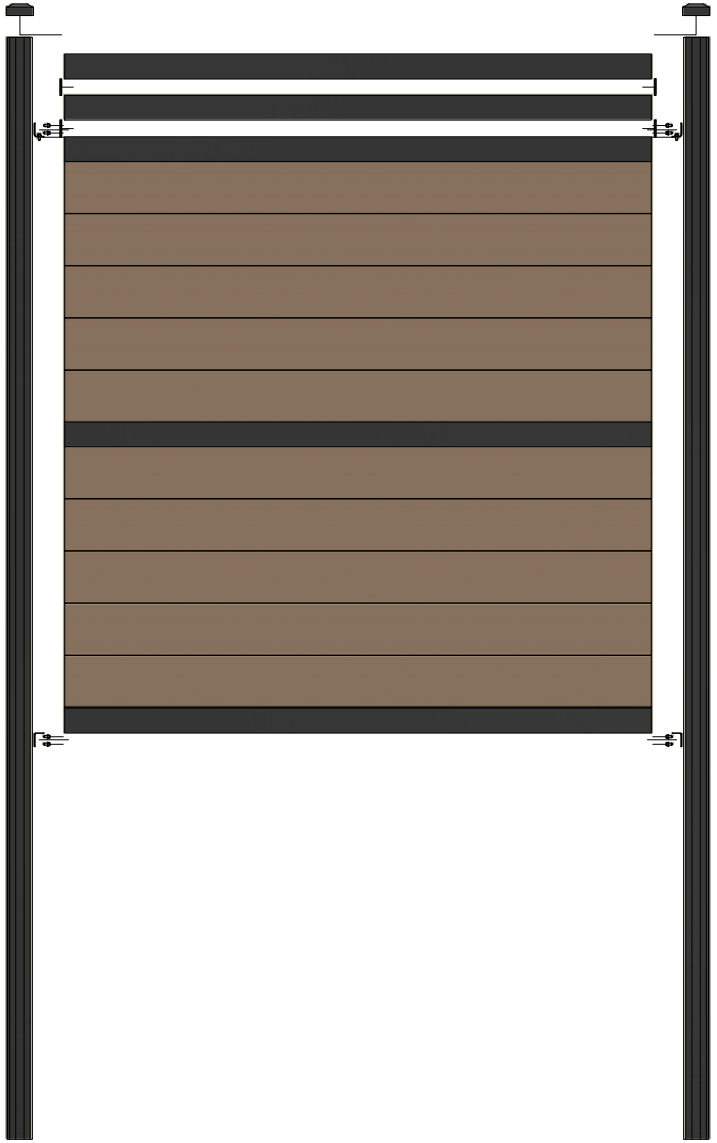
2-PC Gate Brace
Part # AVGSB

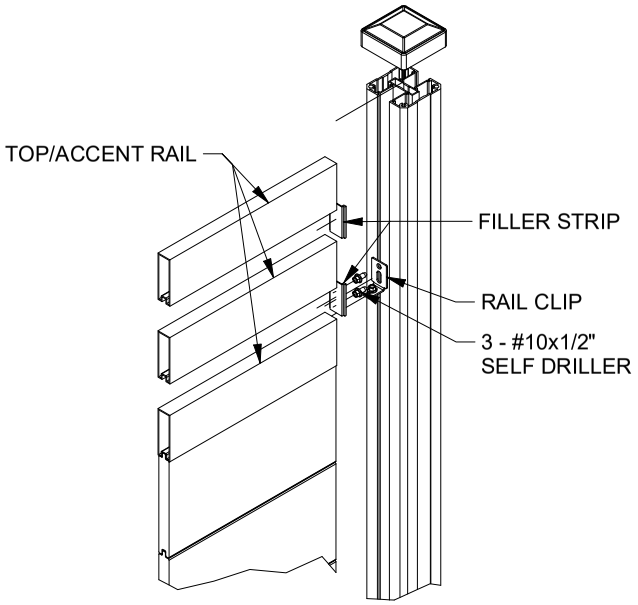
This part is installed on all gates to keep them square. It is cut to length and attached to the top rail of the gate (on the hinge side) and to the bottom rail of the gate (on the latch side) with 2 – #10 x ¾" self drillers at the top and bottom of the brace (4 total).
3/16" pilot holes should be drilled in the channel before installing to ensure proper torquing of the self drillers.
The clip is installed over the channel to cover the screws using a rubber hammer or wood block.
This channel must be field installed on the backside (least visible) side of the gate.

STANDARD FENCE SECTION

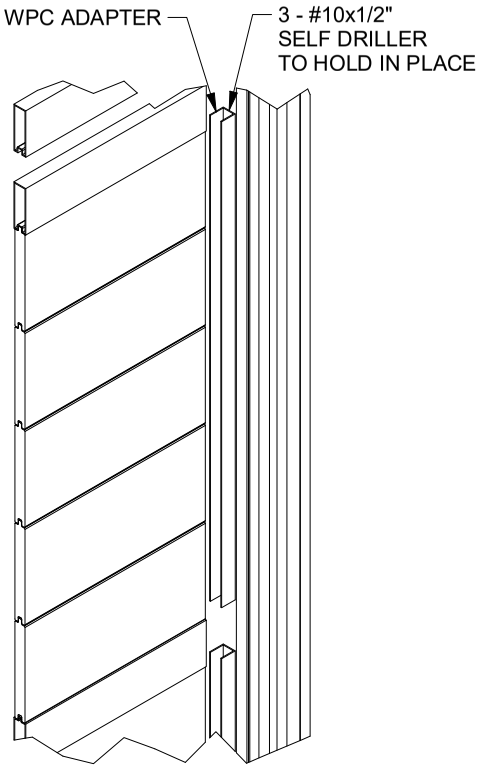


STANDARD FENCE SECTION
(EXPLODED VIEW)

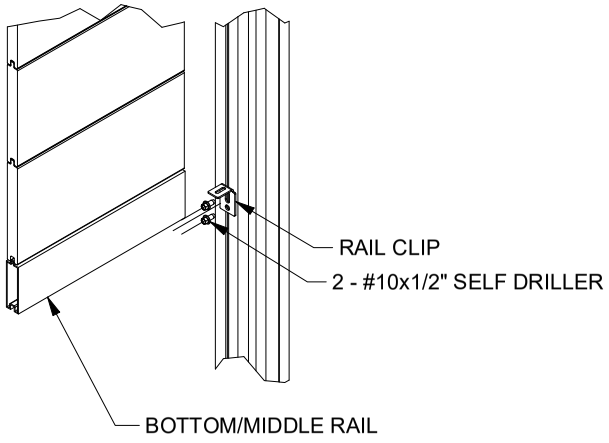




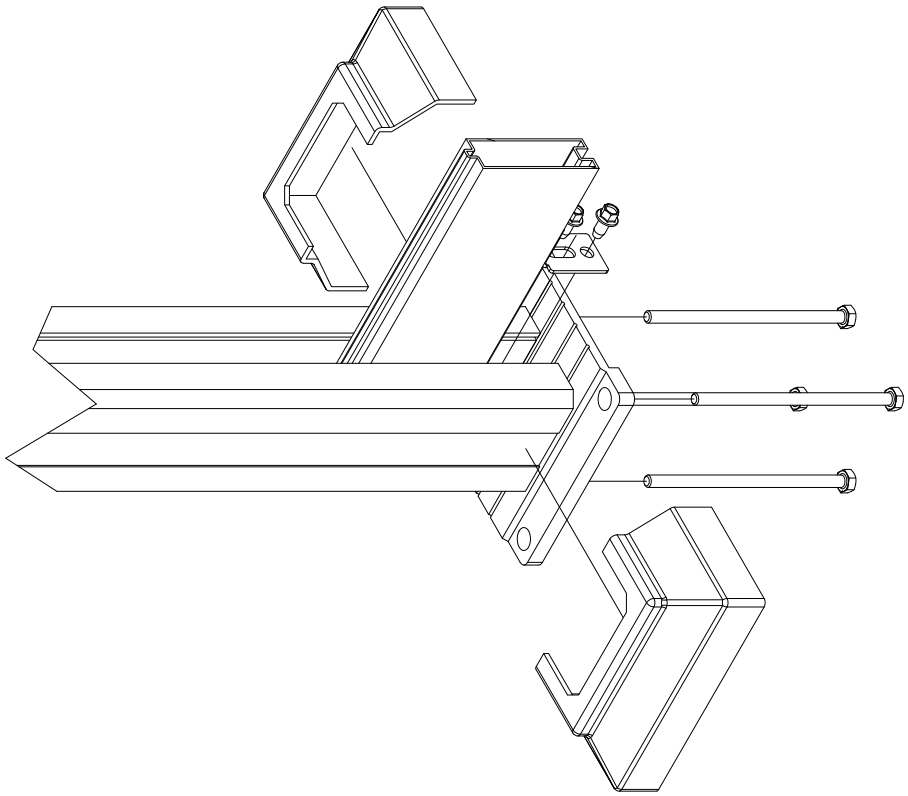
DETAIL A
SCALE 1 / 10

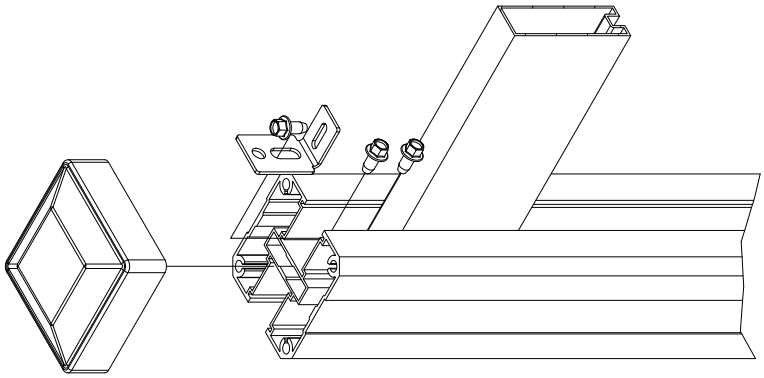


DETAIL C
SCALE 1/10

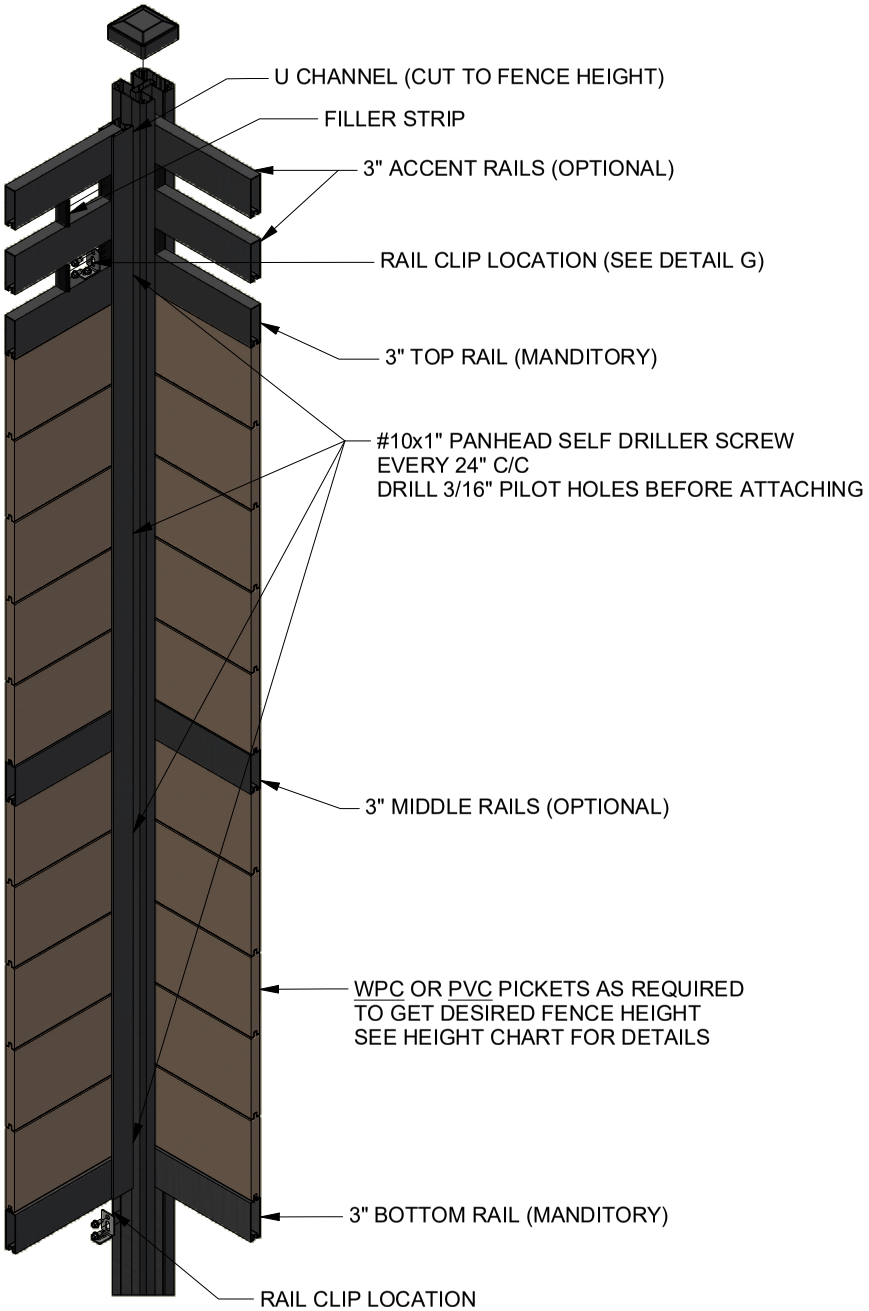


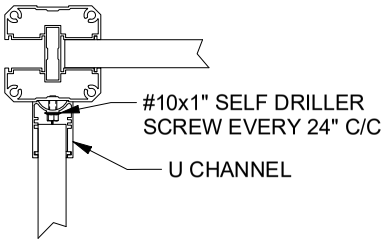
DETAIL B
SCALE 1 / 10



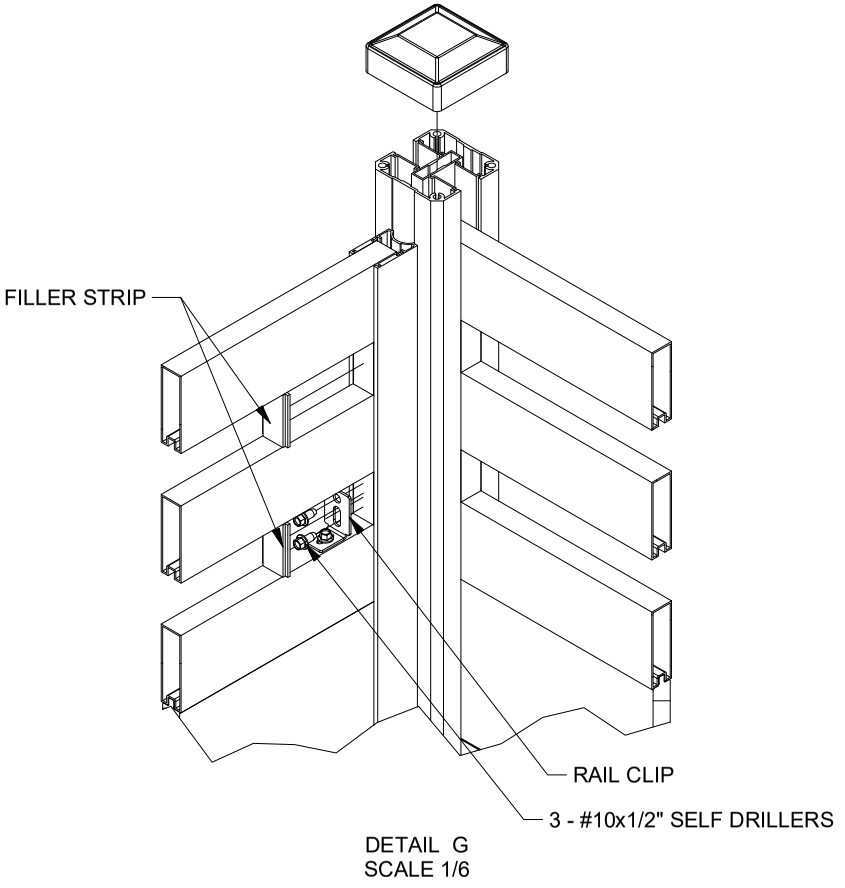


90 DEG CORNER



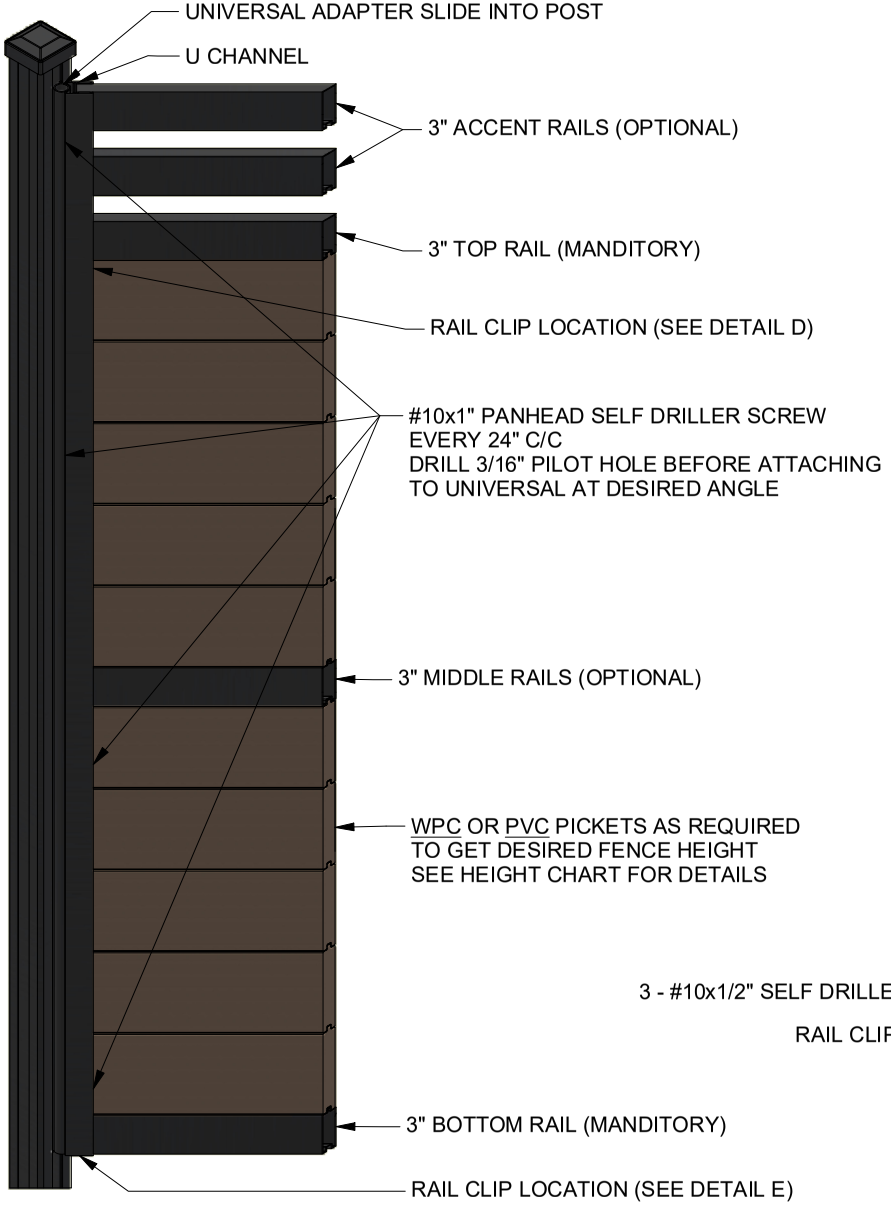


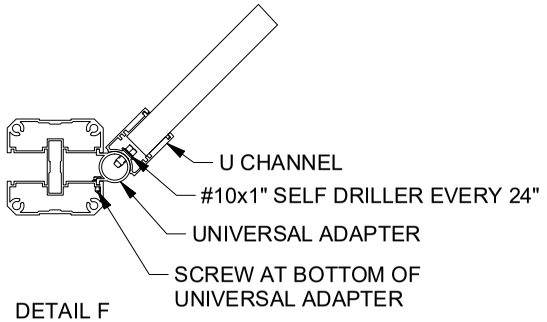
DETAIL H
SCALE 1/6



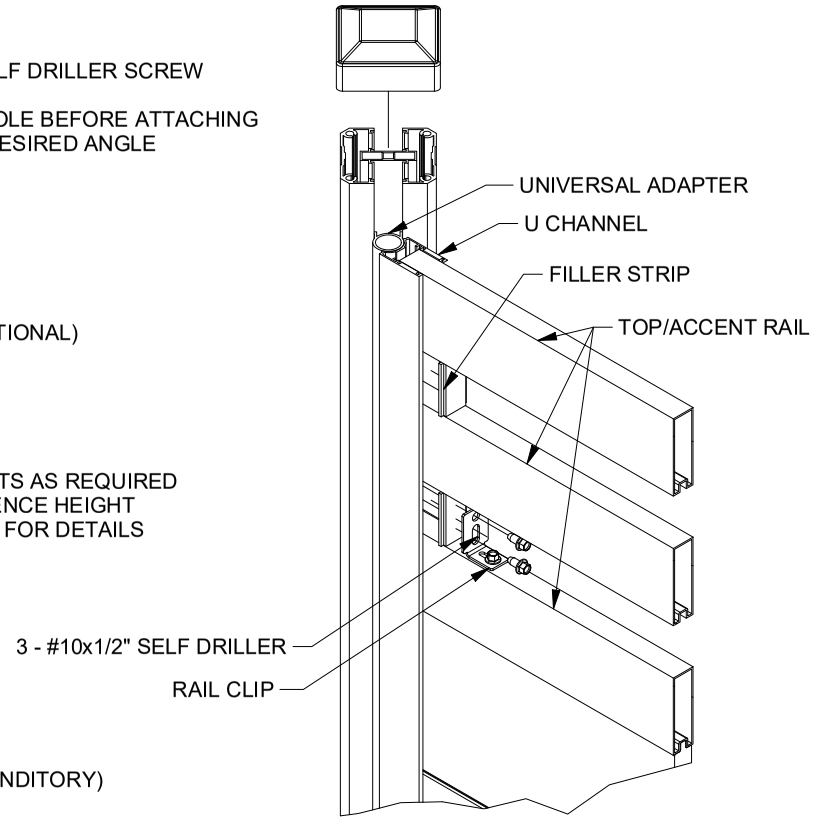
DETAIL G
SCALE 1/6

ADJUSTABLE CORNER

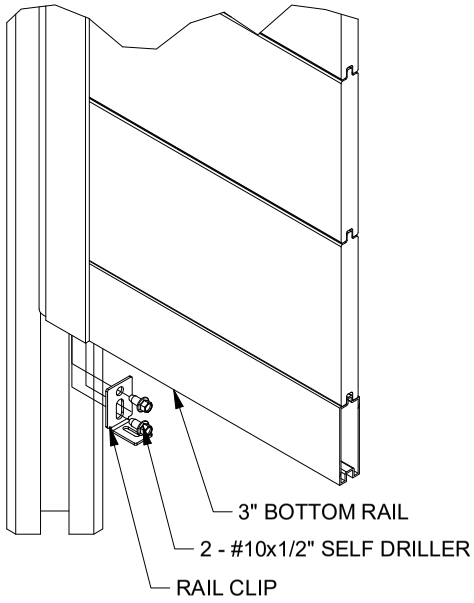




DETAIL F
SCALE 1/6



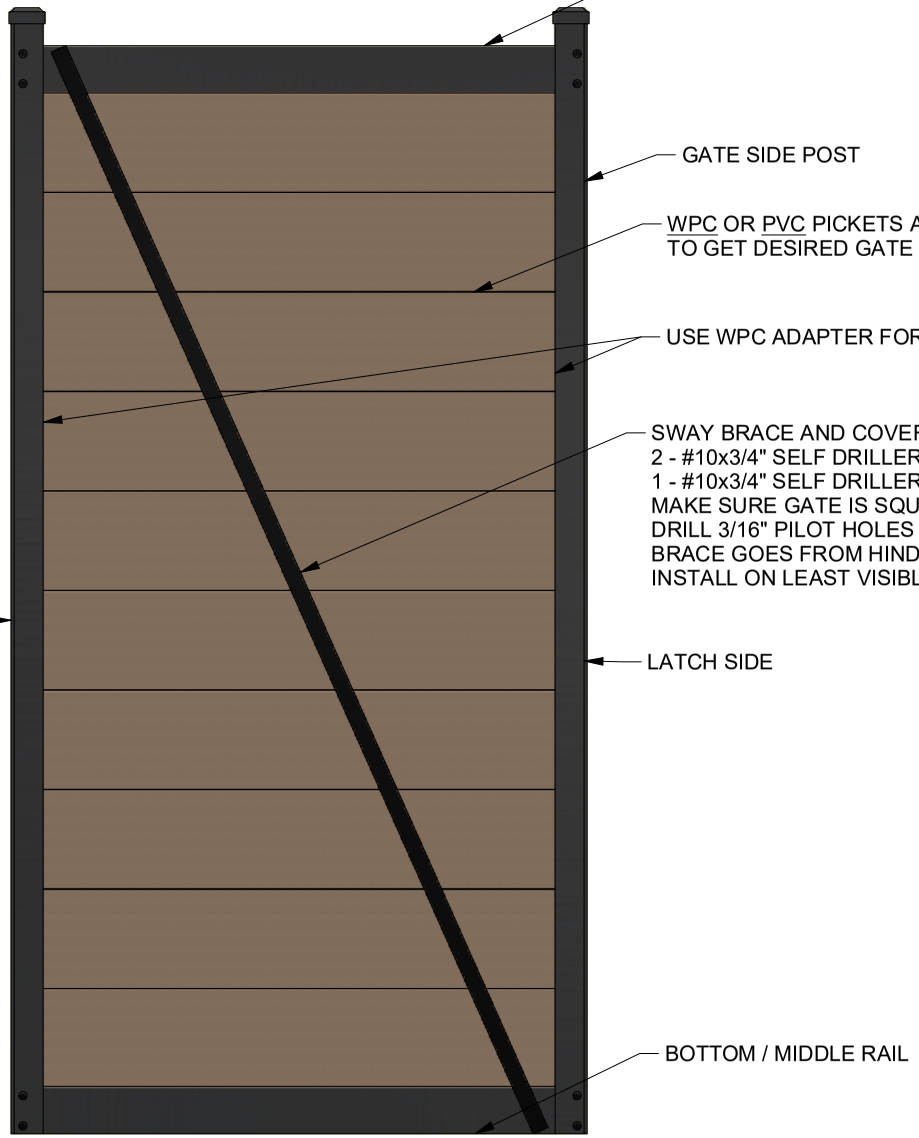
DETAIL D
SCALE 1/6

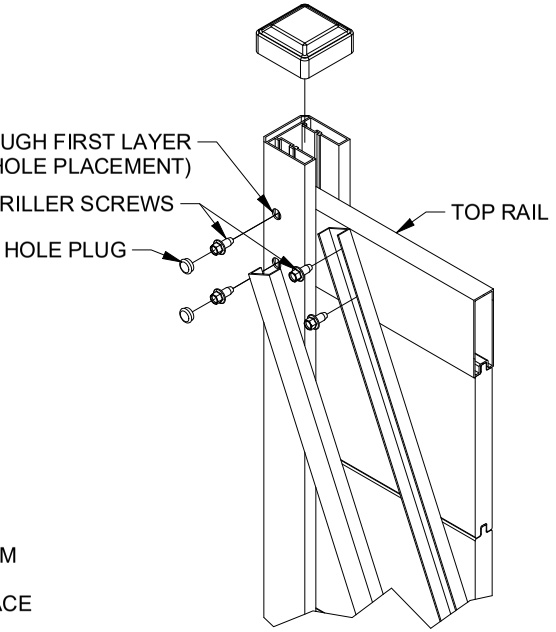


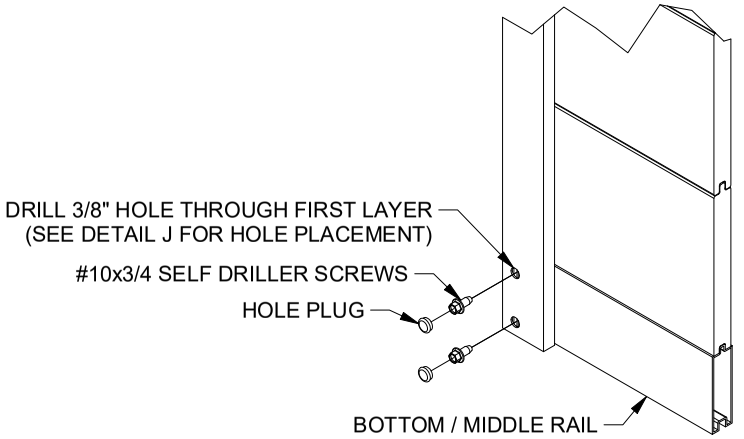
DETAIL E
SCALE 1/6

STANDARD GATE DETAIL

(USE WHEN NOT RIPPING PICKETS TO CUSTOM HEIGHT)

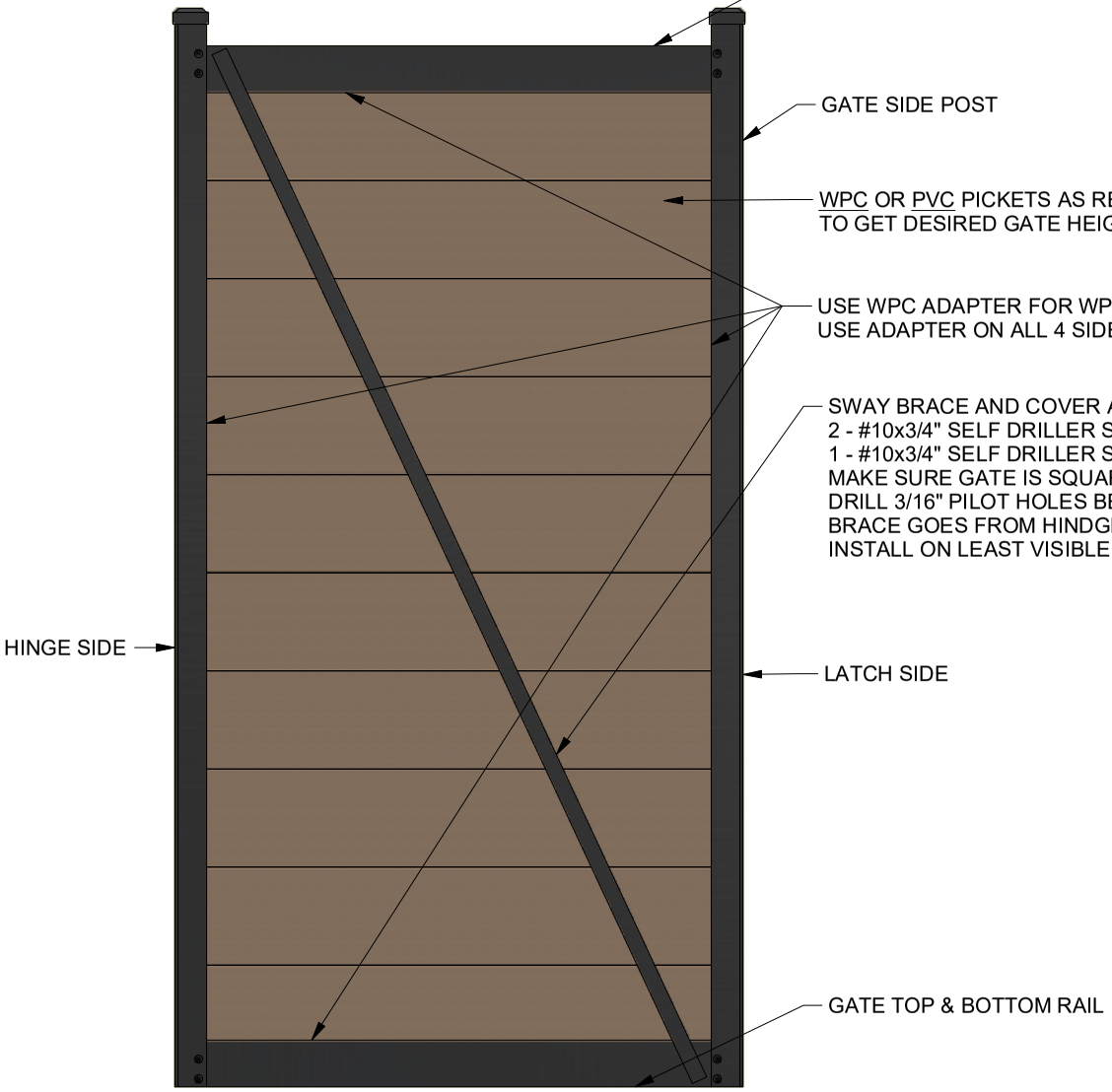


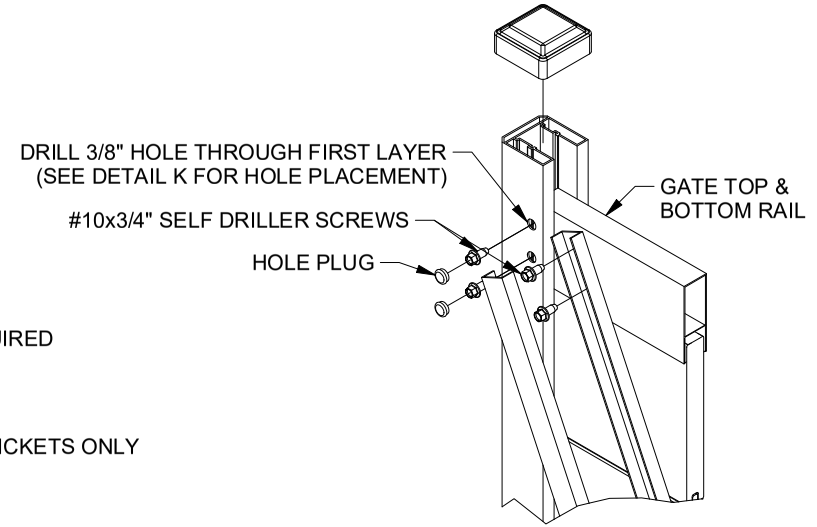


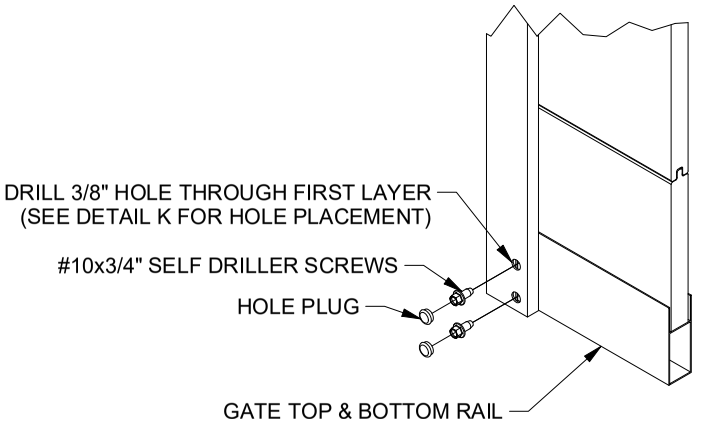


CUSTOM GATE DETAIL

(USE WHEN RIPPING PICKETS TO CUSTOM HEIGHT)



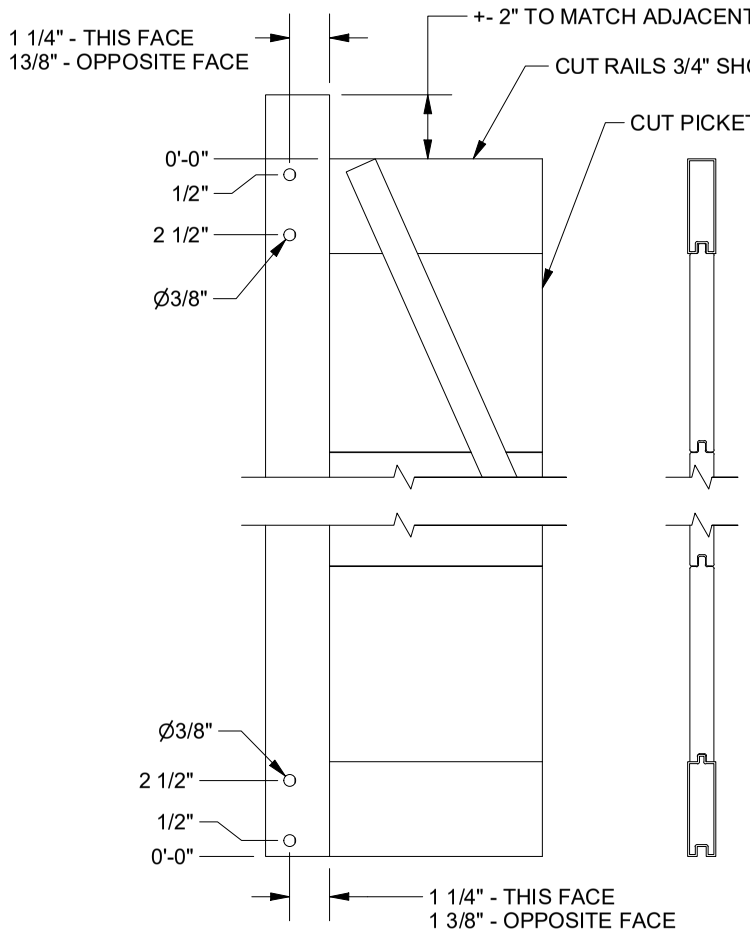




STANDARD GATE DETAIL J

CUSTOM GATE DETAIL K

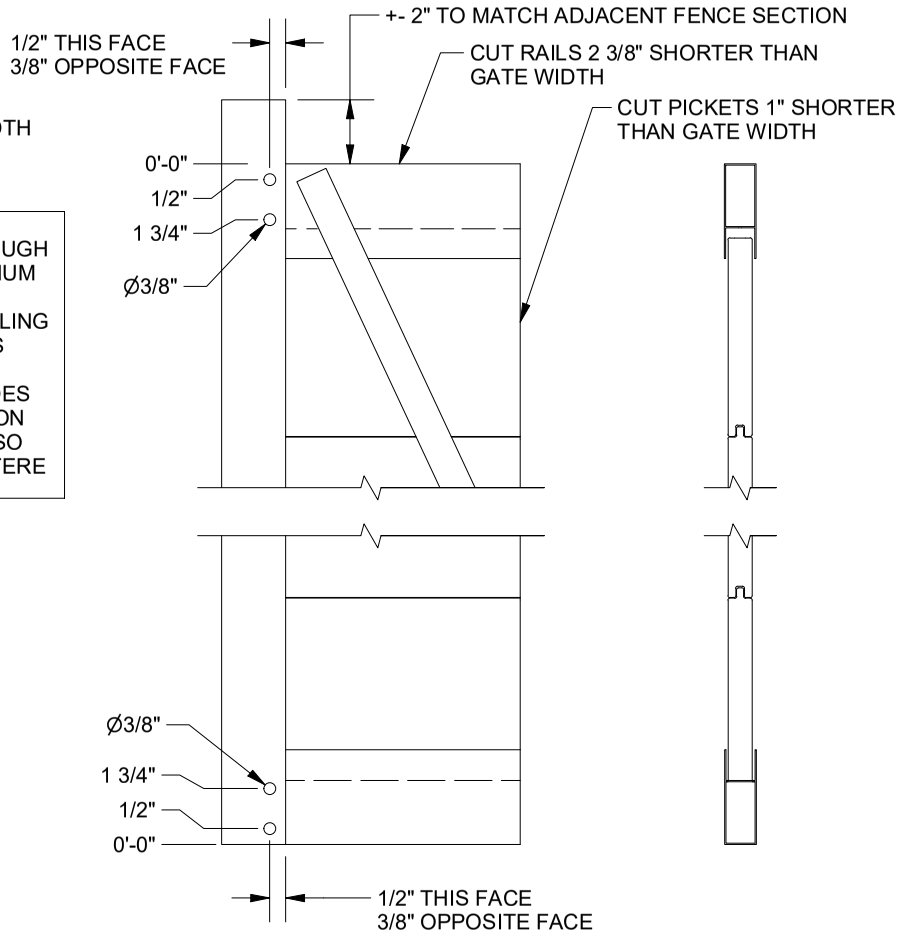
ALL GATES SHOULD BE 1 3/4" NARROWER THAN GATE OPENING



DRILL 3/8" HOLES THROUGH 1ST LAYER OF ALUMINUM

USE #10x3/4" SELF DRILLING PAN HEAD SCREWS

DO THIS ON BOTH SIDES OFFSET THE HOLES ON OPPOSITE SIDE 1/8" SO SCREWS DON'T INTERFERE



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AV HYBRID FENCE HEIGHT CALCULATOR

- All fences are measured from the bottom of the Bottom Rail to the top of the Top Rail.
- For total height of fence add the space between the Bottom Rail and ground (usually 2-3").

STANDARD FENCE (NO MIDDLE RAIL)

Part #		WPC	VINYL
9_ _ _BT	**9 Pickets plus Top and Bottom Rail**	62 1/16"	60"
10_ _ _BT	**10 Pickets plus Top and Bottom Rail**	68 5/16"	66"
11_ _ _BT	**11 Pickets plus Top and Bottom Rail**	74 9/16"	72"
12_ _ _BT	**12 Pickets plus Top and Bottom Rail**	80 13/16"	78"

FENCE WITH 1 MIDDLE RAIL

Part #		WPC	VINYL
9_ _ _BMT	**9 Pickets with Top, Bottom & 1 Middle Rail**	65 1/16"	63"
10_ _ _BMT	**10 Pickets with Top, Bottom & 1 Middle Rail**	71 5/16"	69"
11_ _ _BMT	**11 Pickets with Top, Bottom & 1 Middle Rail**	77 9/16"	75"
12_ _ _BMT	**12 Pickets with Top, Bottom & 1 Middle Rail**	83 13/16"	81"

FENCE WITH 2 MIDDLE RAILS

Part #		WPC	VINYL
9_ _ _BMMT	**9 Pickets with Top, Bottom & 2 Middle Rails**	68 1/16"	66"
10_ _ _BMMT	**10 Pickets with Top, Bottom & 2 Middle Rails**	74 5/16"	72"
11_ _ _BMMT	**11 Pickets with Top, Bottom & 2 Middle Rails**	80 9/16"	78"
12_ _ _BMMT	**12 Pickets with Top, Bottom & 2 Middle Rails**	86 13/16"	84"

FENCE WITH ACCENT (NO MIDDLE RAIL)

Part #		WPC	VINYL
9_ _ _BTAA	**9 Pickets with Top, Bottom & 2 Accent Rails**	72 1/16"	70"
10_ _ _BTAA	**10 Pickets with Top, Bottom & 2 Accent Rails**	78 5/16"	76"
11_ _ _BTAA	**11 Pickets with Top, Bottom & 2 Accent Rails**	84 9/16"	82"
12_ _ _BTAA	**12 Pickets with Top, Bottom & 2 Accent Rails**	90 13/16"	88"

FENCE WITH 1 MIDDLE RAIL & ACCENT

Part #		WPC	VINYL
9_ _ _BMTAA	**9 Pickets with Top, Bottom, 1 Middle Rail & 2 Accent Rails**	75 1/16"	73"
10_ _ _BMTAA	**10 Pickets with Top, Bottom, 1 Middle Rail & 2 Accent Rails**	81 5/16"	79"
11_ _ _BMTAA	**11 Pickets with Top, Bottom, 1 Middle Rail & 2 Accent Rails**	87 9/16"	85"
12_ _ _BMTAA	**12 Pickets with Top, Bottom, 1 Middle Rail & 2 Accent Rails**	93 13/16"	91"

FENCE WITH 2 MIDDLE RAILS & ACCENT

Part #		WPC	VINYL
9_ _ _BMMTAA	**9 Pickets with Top, Bottom, 2 Middle Rail & 2 Accent Rails**	78 1/16"	76"
10_ _ _BMMTAA	**10 Pickets with Top, Bottom, 2 Middle Rail & 2 Accent Rails**	84 5/16"	82"
11_ _ _BMMTAA	**11 Pickets with Top, Bottom, 2 Middle Rail & 2 Accent Rails**	90 9/16"	88"
12_ _ _BMMTAA	**12 Pickets with Top, Bottom, 2 Middle Rail & 2 Accent Rails**	96 13/16"	94"

_ _ _ = WPC or PVC

9	-	WPC	-	B	-	M	-	T	-	AA
No. of Pickets		Type of Picket (WPC or PVC)		Bottom Rail (Mandatory)		Middle Rail (Optional)		Top Rail (Mandatory)		Accent Rails (Optional)