

EDGEVIEW

SCREENED RAIL SYSTEMS

ENGINEERING STAMP AVAILABLE IN 13 STATES.

(FLORIDA, GEORGIA, NORTH CAROLINA, SOUTH CAROLINA, VIRGINIA, WEST VIRGINIA, INDIANA, TENNESSEE, ALABAMA, LOUISIANA, MISSISSIPPI, TEXAS AND COROLADO).

APPLICABLE CODES, REGULATIONS & STANDARDS

1. 2023 FLORIDA BUILDING CODE, BUILDING (8TH EDITION)
2. 2023 FLORIDA BUILDING CODE, RESIDENTIAL (8TH EDITION)
3. ASCE 7-22: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
4. ACI 318-19: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
6. 2020 ALUMINUM DESIGN MANUAL

WIND LOADS (SEC 1609)

1. RISK CATEGORY=II
2. BASIC WIND SPEED=160MPH
3. EXPOSURE CATEGORY = D

LIVE LOADS FOR NON-RESIDENTIAL STRUCTURES (SEC 1607.8)

1. GUARDRAILS AND HANDRAILS
 - A. LINEAR LOAD OF 50 PLF
 - B. CONCENTRATED LOAD OF 200 LBF
2. INTERMEDIATE RAILS
CONCENTRATED LOAD OF 50 LBF

LIVE LOADS FOR RESIDENTIAL STRUCTURES (TABLE R301.5)

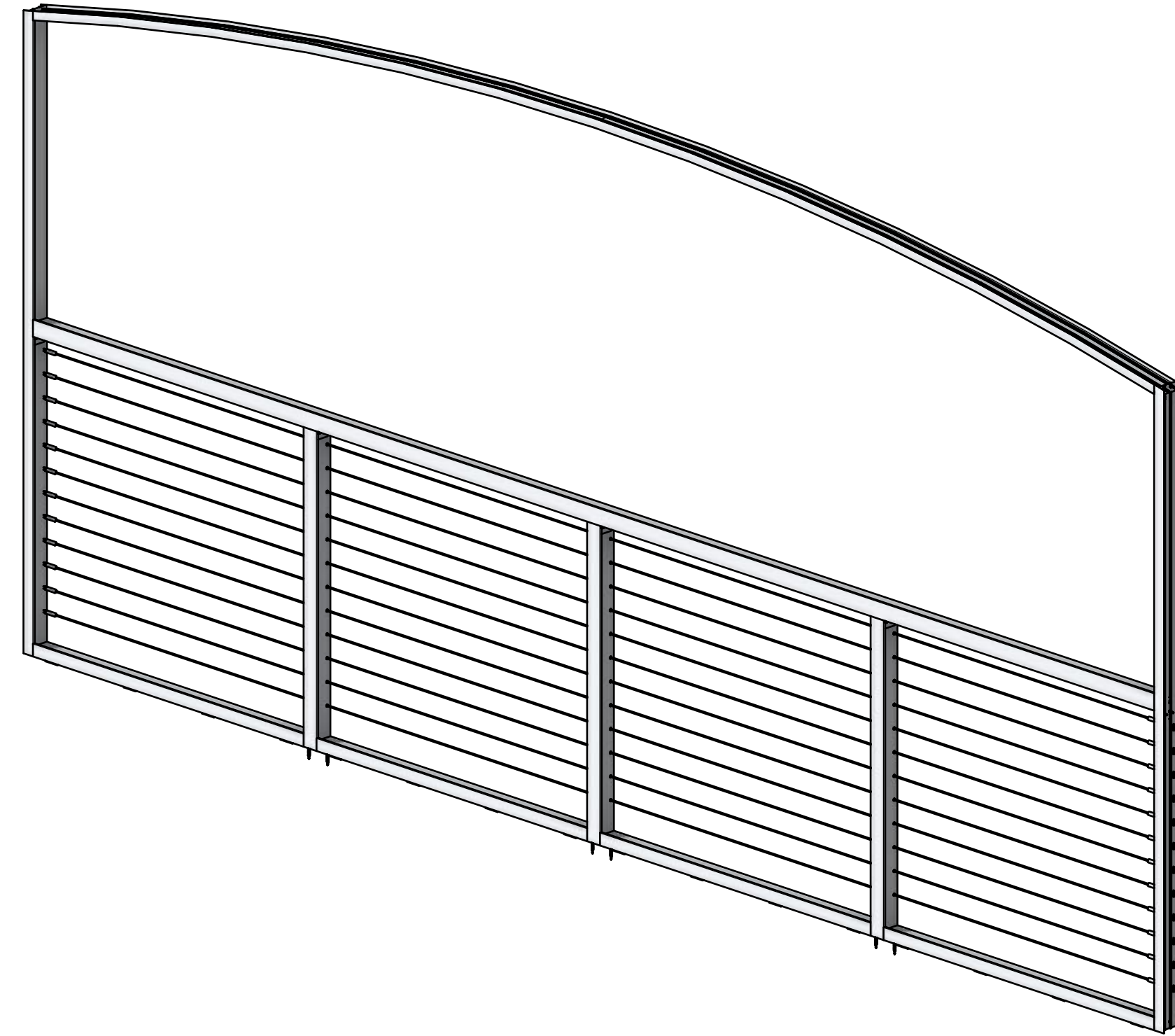
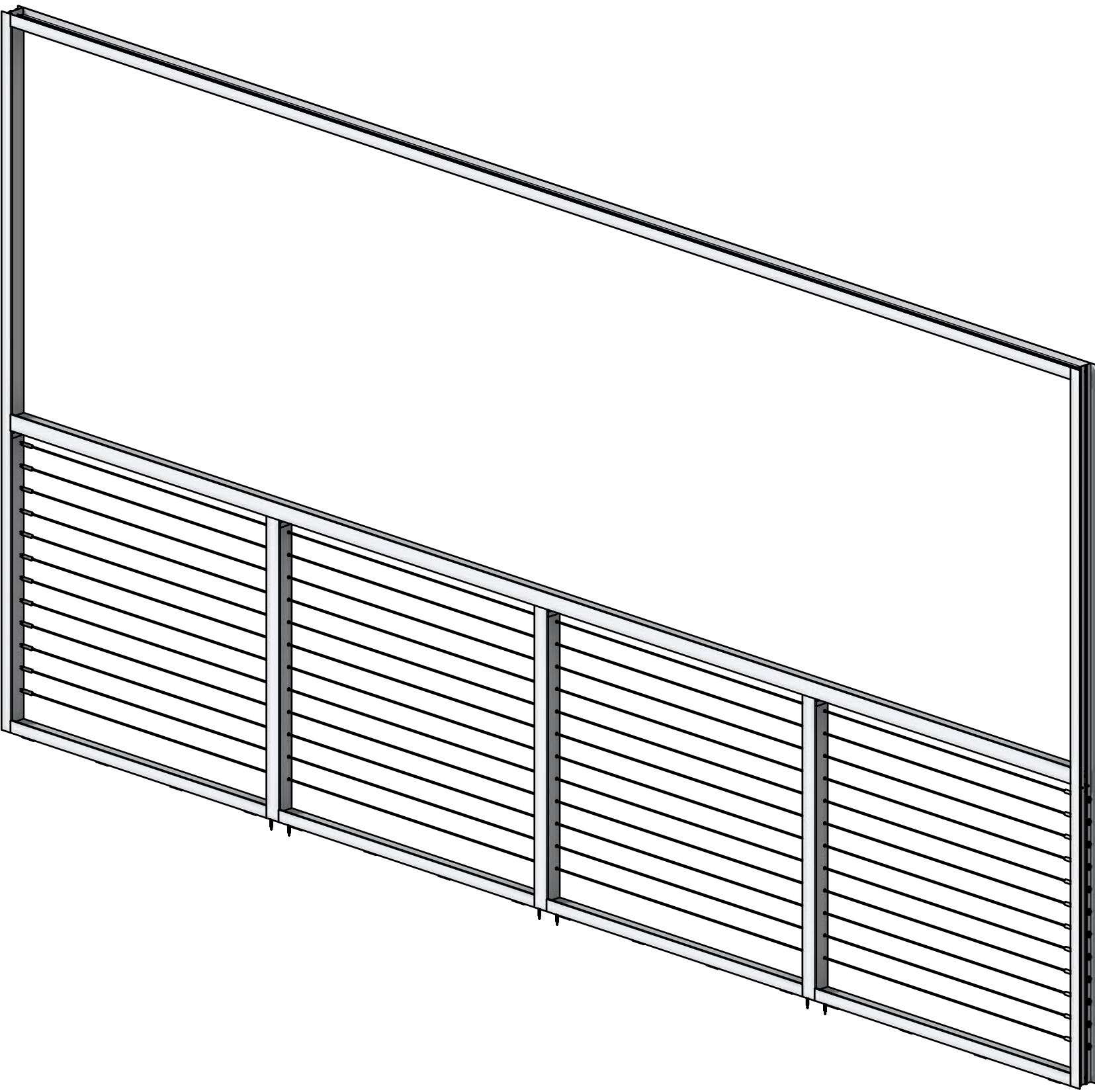
GUARDS AND HANDRAILS = 200 PSF
GUARD IN-FILL COMPONENTS = 50 PSF

GENERAL NOTES AND SPECIFICATIONS

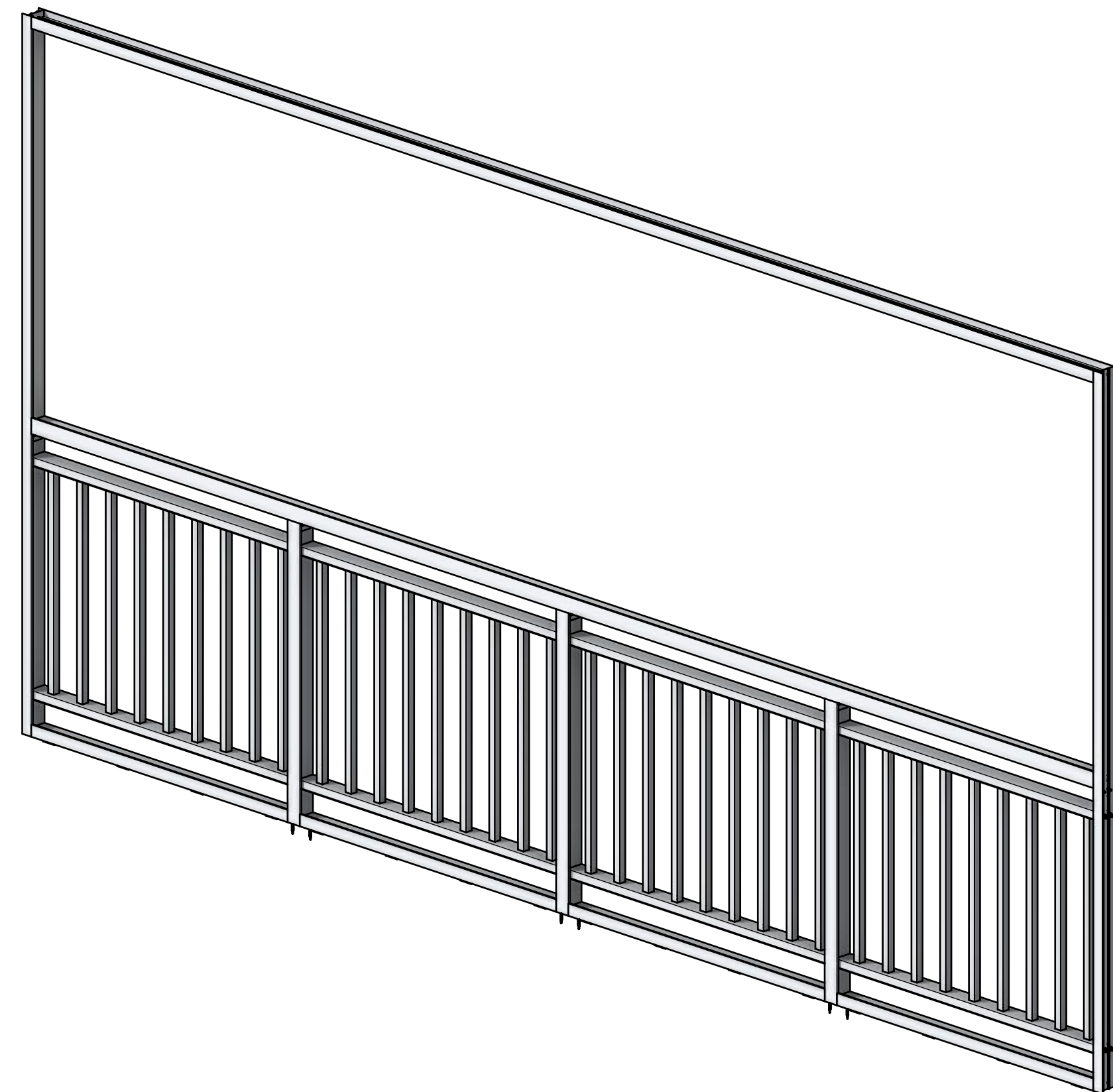
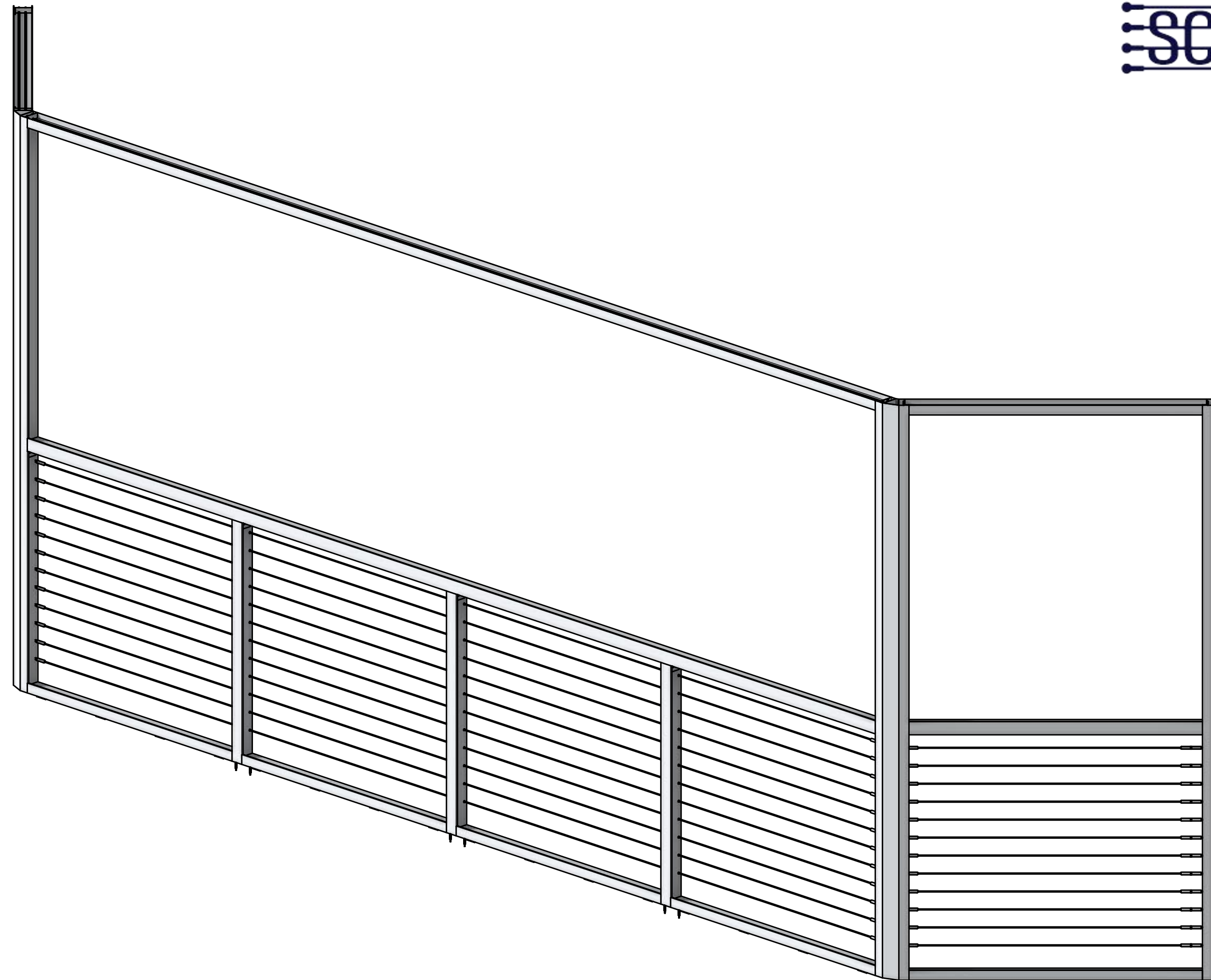
1. THE STRUCTURES INDICATED HEREIN ARE DESIGNED TO BE INSTALLED WITH IN MASONRY OR WOOD FRAME HOST STRUCTURES OF ADEQUATE STRUCTURAL CAPACITY. THE CONTRACTOR SHALL VERIFY THAT THE HOST STRUCTURE IS IN GOOD CONDITION AND OF SUFFICIENT STRENGTH TO SUPPORT THE PROPOSED ADDITION.
2. ALUMINUM EXTRUSIONS SHALL MEET THE STRENGTH REQUIREMENTS OF ASTM B221 AFTER POWDER COATING.
3. ALL ALUMINUM EXTRUSIONS ARE TO BE A MINIMUM 6063-T6.
4. SITE SPECIFIC ENGINEERING REQUIRED FOR ALL INSTALLATIONS ABOVE AN ELEVATION OF 60 FT FROM GRADE.
5. THE SCHEMATIC SHOWN ON PAGE 3 AND 4 AS WELL AS THE DETAILS ON THE FOLLOWING PAGES ARE DESIGNED BASED ON THE PROVISIONS OF THE BUILDING CODE.
6. CABLES TO BE ATTACHED TO FRAME MEMBERS USING PUSH-LOCK TOGGLE TENSIONER ON ONE SIDE AND PUSH-LOCK TOGGLER NON-TENSIONER ON THE OTHER SIDE, WITH A WORKING LOAD RATING OF 750 LBF. SEE MANUFACTURER'S SPECIFICATIONS FOR DETAILS.

**THE APPLICABILITY OF THIS DESIGN FOR ANY SITE-SPECIFIC PROJECT
REQUIRES THE SIGN & SEAL OF A PROFESSIONAL ENGINEER.**

**EDGEVIEW
RAILING SYSTEM MASTER PLAN**



EDGEVIEW
SCREENED RAIL SYSTEMS

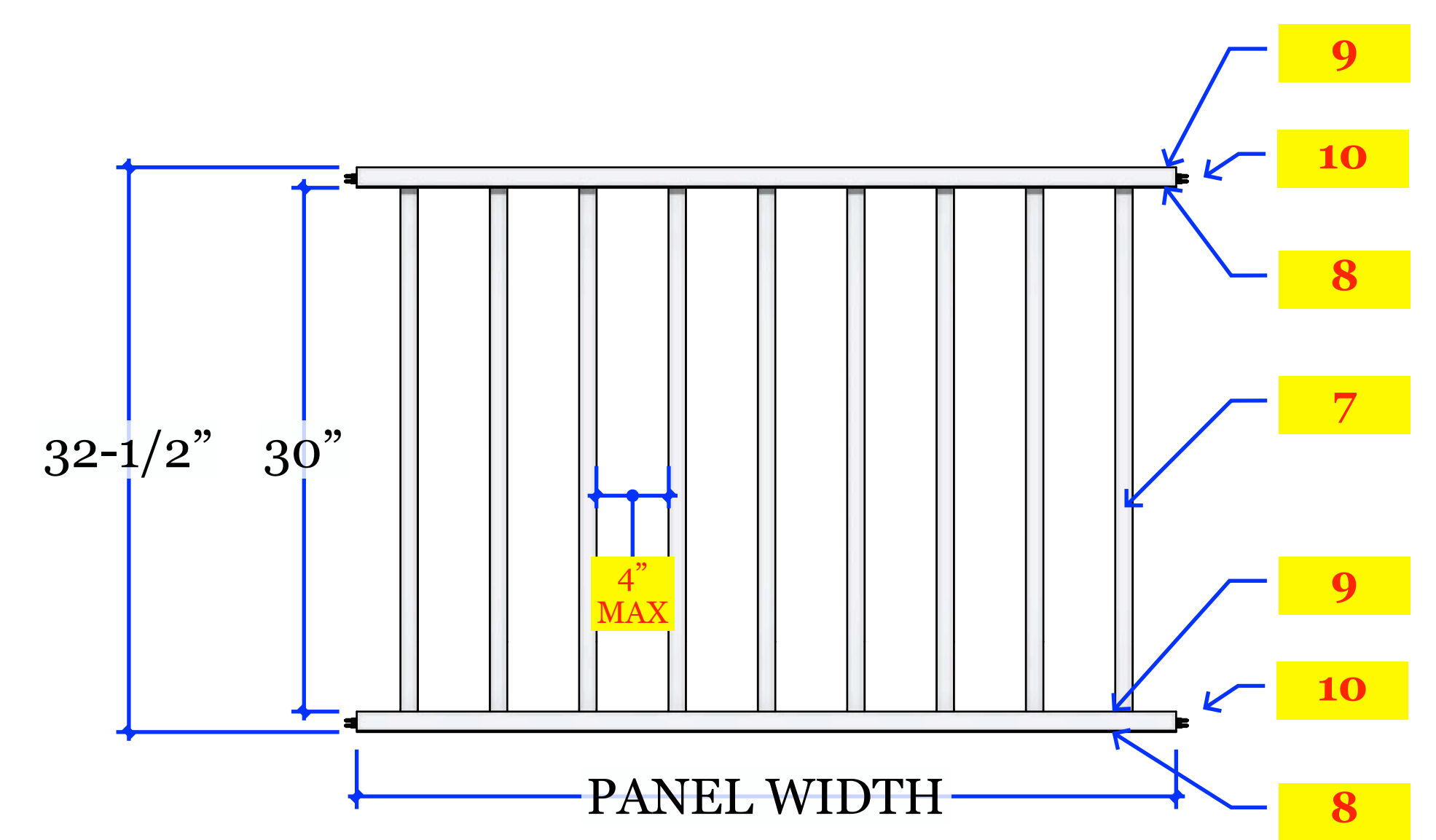


EDGEVIEW
RAILING SYSTEM MASTER PLAN

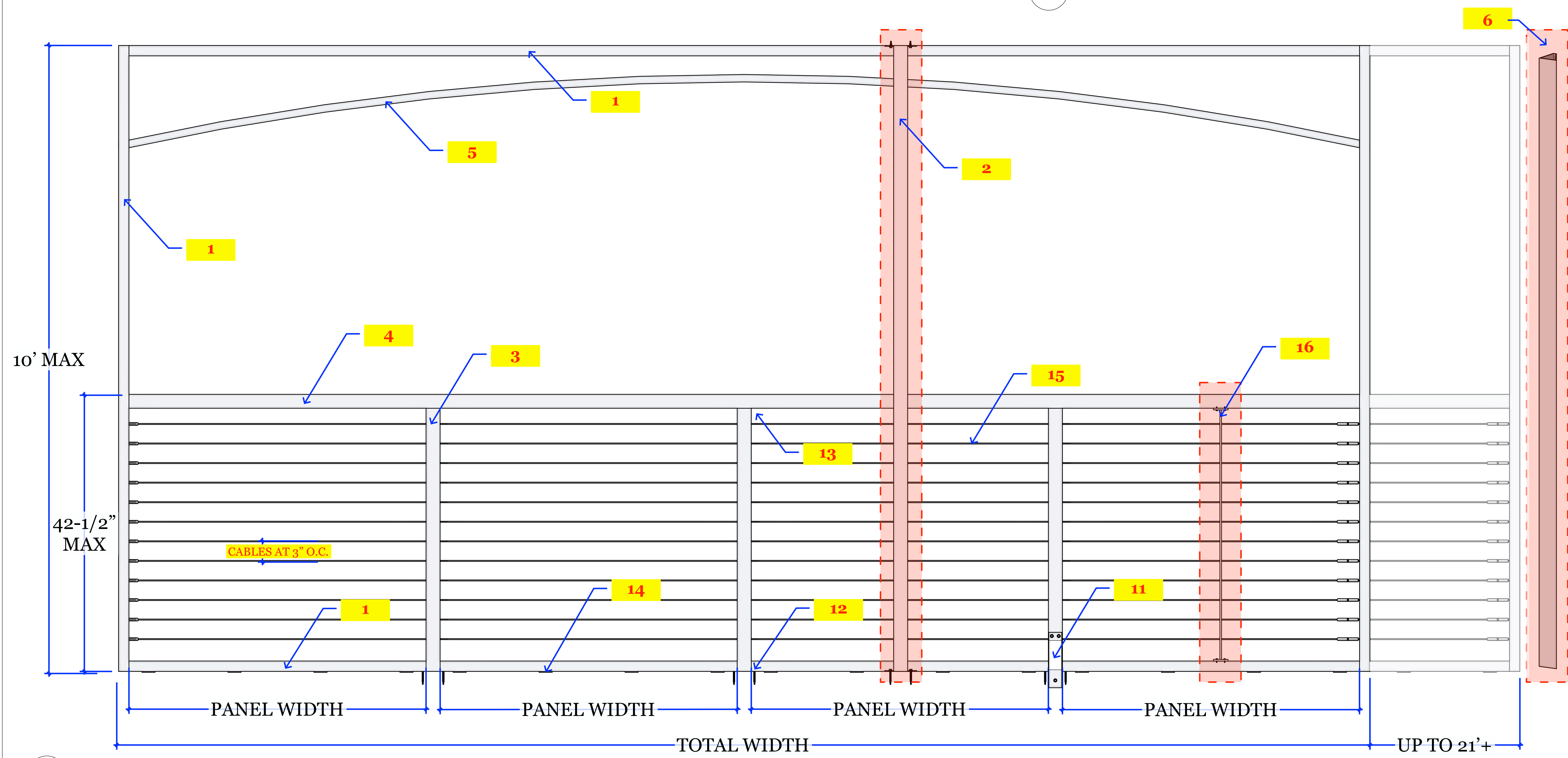
US Patent NOs:
US 11,125,013 B1
US 11,603,805 B2

MEMBER LEGEND

NO.	MEMBER	SECTION LABEL	NO.	MEMBER	SECTION LABEL
1	TRACK CHANNEL	A	13	4 HOLE CLIP	K
2*	FULL LENGTH POST	B	14	DRAINAGE PROFILE	L
3*	INTERMEDIATE POST	B	15	WIRE ROPE	
4*	CHAIR RAIL	B	16	FLAT BAR	M
5	ARCH CHANNEL	C			
6	ANGLES 22.5 / 30 / 45	D			
7	PICKET	E			
8	PICKET SNAP PLATE	F			
9	PICKET CHANNEL	G			
10	PICKET CLIP	H			
11	Z-BRACKET	I			
12	3 HOLE CLIP	J			



OPT OPTIONAL PICKET PANEL INSERT



1 TYPICAL PANEL LAYOUT (CABLE VERSION)

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TABLE A

FOR TOTAL WIDTH < = 16'-0" (TO BE USED FOR INSTALLATIONS WITH NON-EPOXY ANCHORS)		
NUMBER OF PANELS	MAXIMUM PANEL WIDTH	DISTANCE BETWEEN FULL-LENGTH POSTS
1	5'-6"	5'-6"
2	5'-1"	10'-2"
3	4'-8"	14'-0"
4	4'-0"	16'-0"

TABLE C

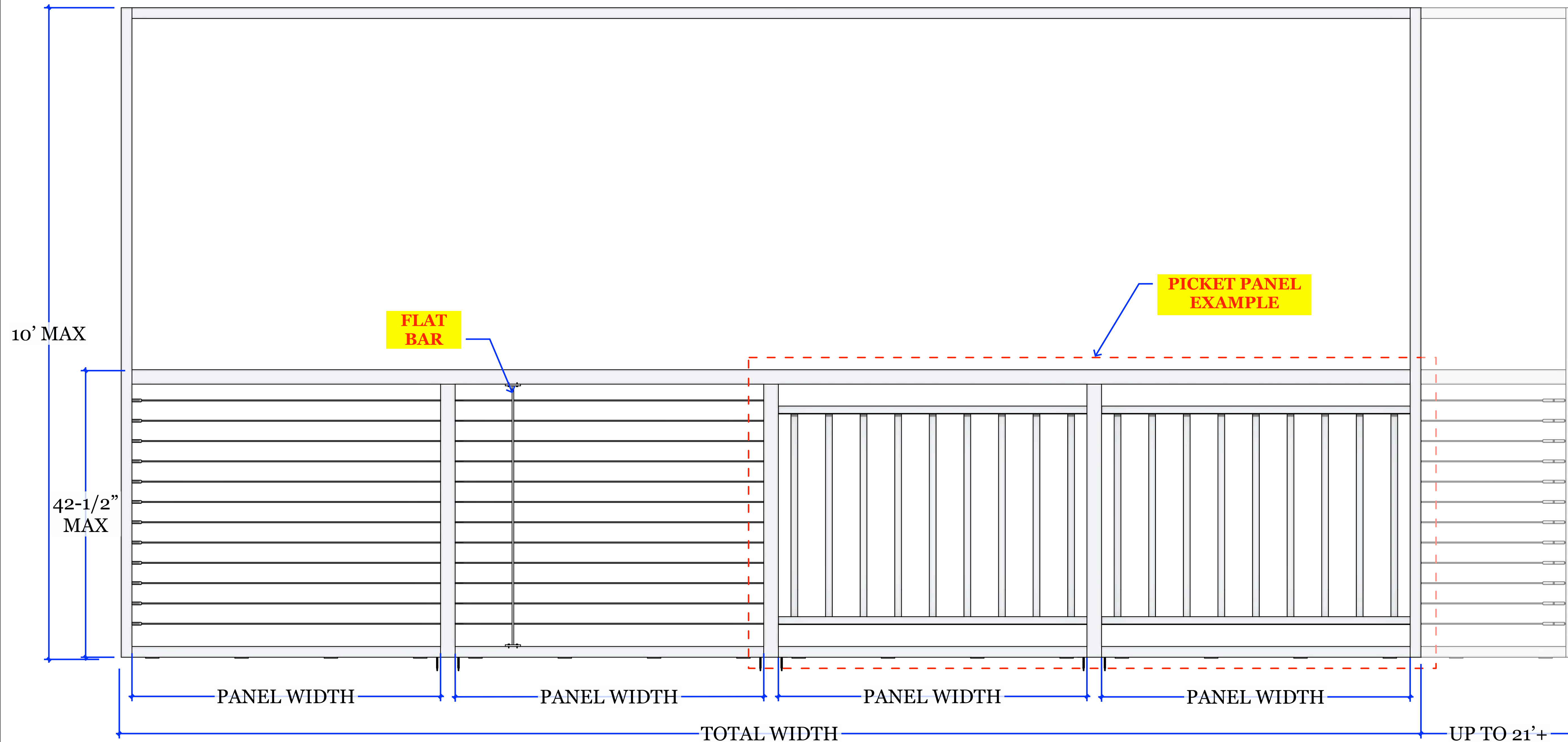
FOR TOTAL WIDTH < = 12'-0" (TO BE USED FOR INSTALLATIONS WITH NON-EPOXY ANCHORS) *OPTIONAL FLAT BAR MAY APPLY		
NUMBER OF PANELS	MAXIMUM PANEL WIDTH	DISTANCE BETWEEN FULL-LENGTH POSTS
3	5'-4"	16'-0"
4	5'-3"	21'-0"

TABLE B

FOR TOTAL WIDTH > = 16'-0" (TO BE USED FOR INSTALLATIONS WITH EPOXY ANCHORS)		
NUMBER OF PANELS	MAXIMUM PANEL WIDTH	DISTANCE BETWEEN FULL-LENGTH POSTS
3	5'-4"	16'-0"
4	5'-3"	21'-0"

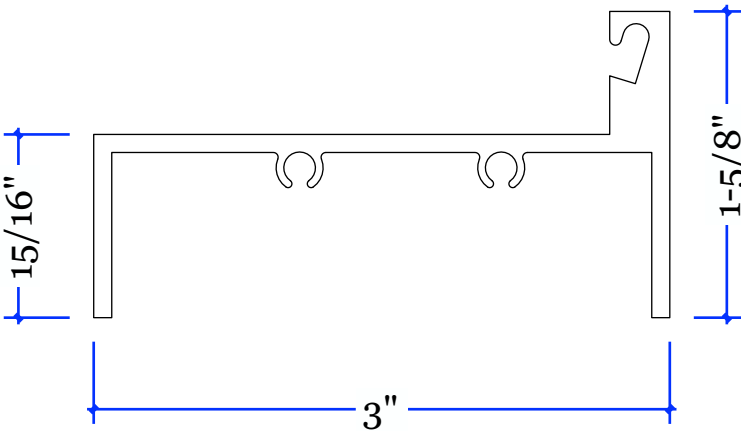
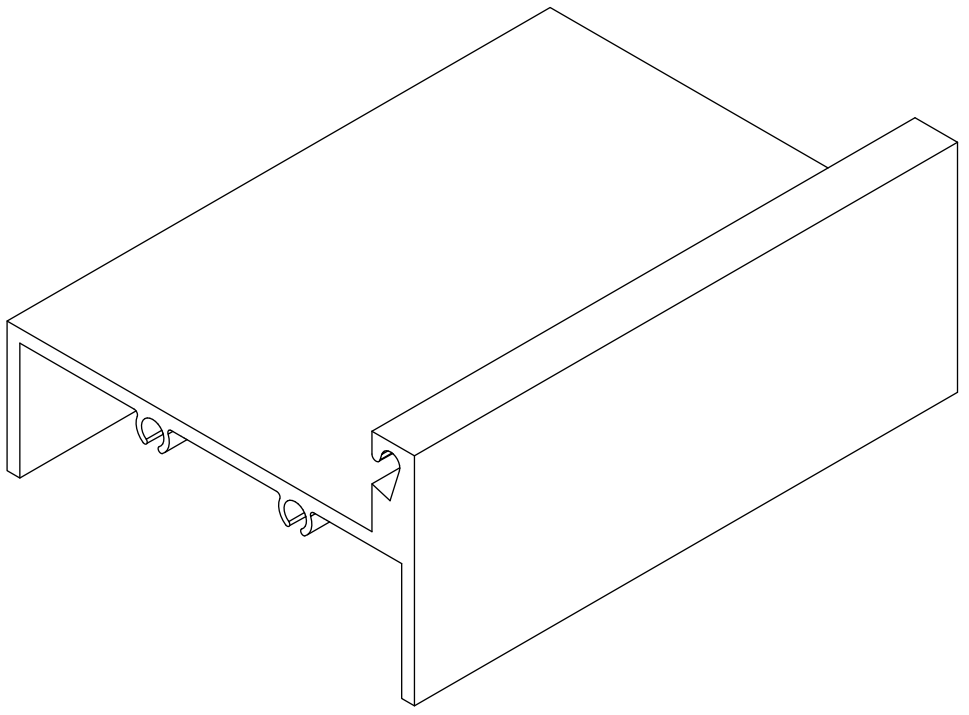
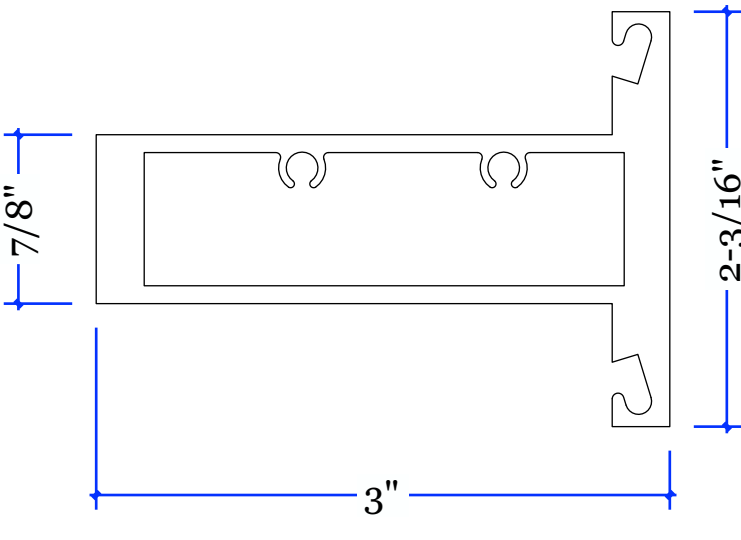
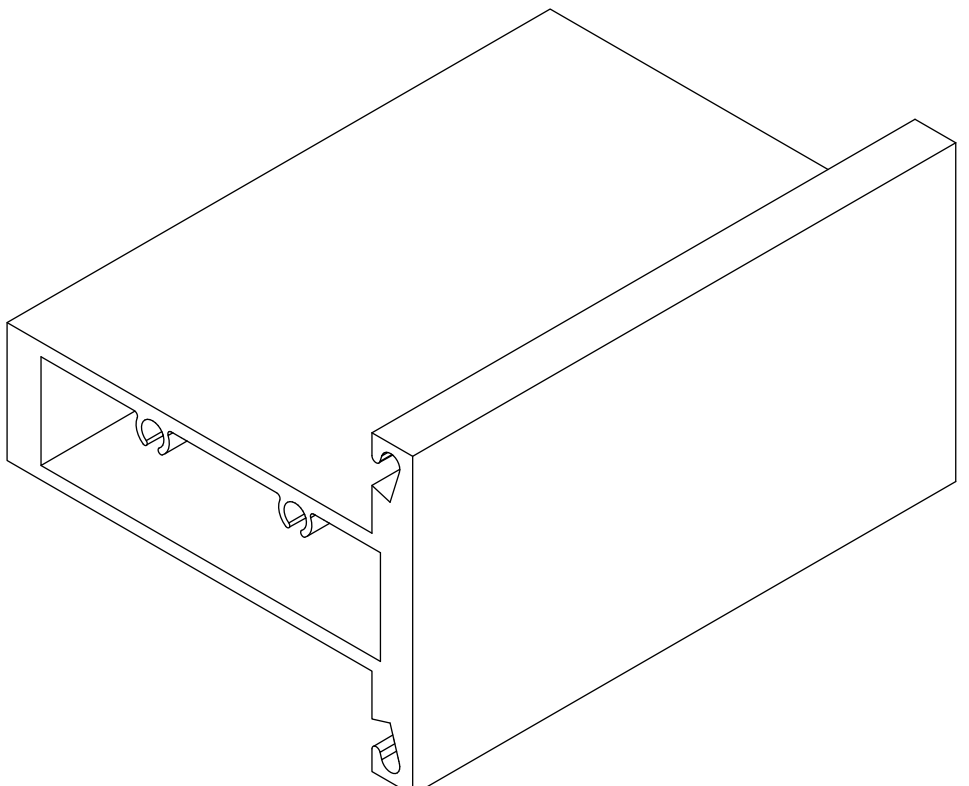
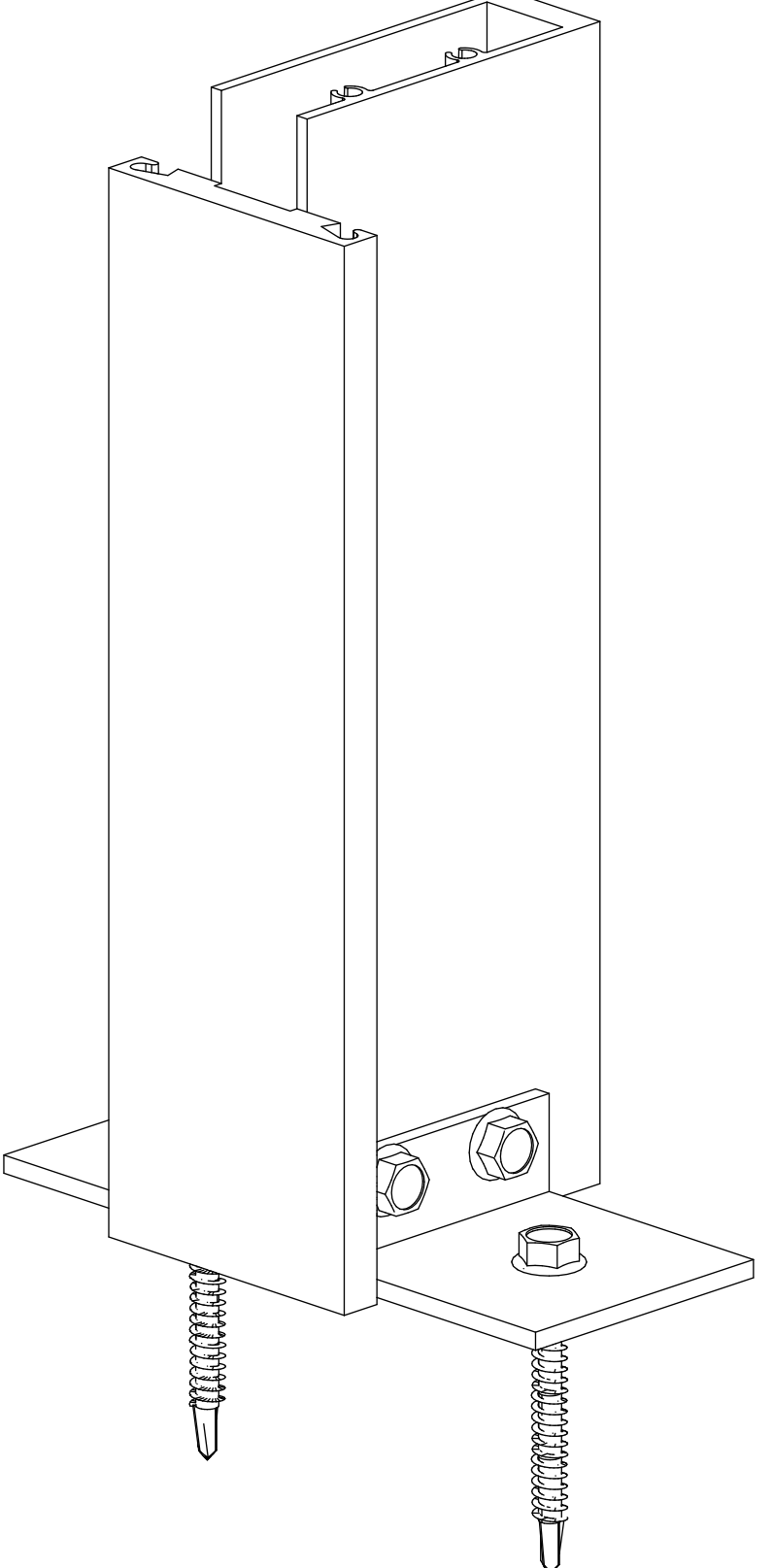
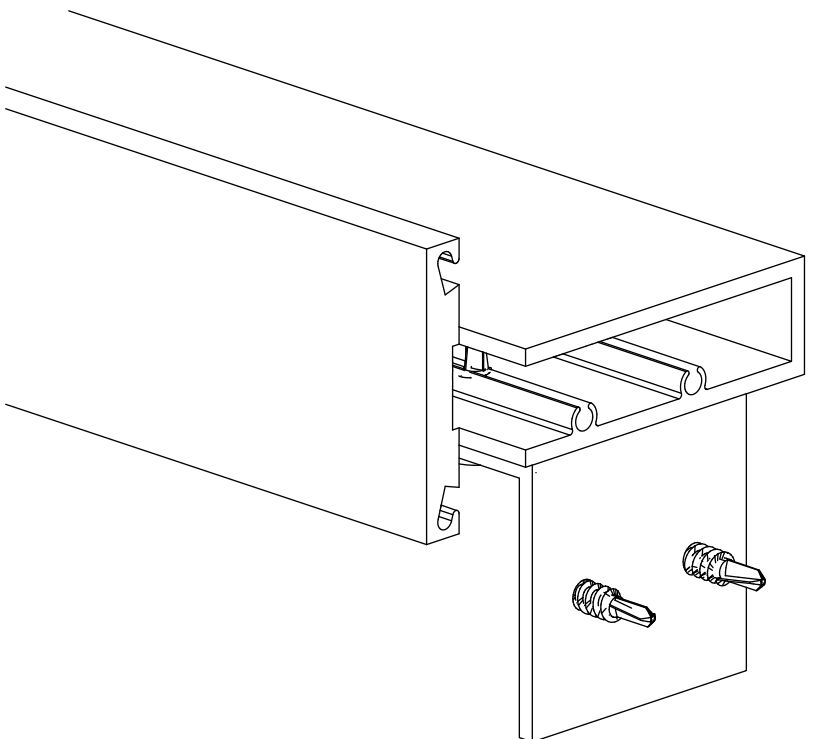
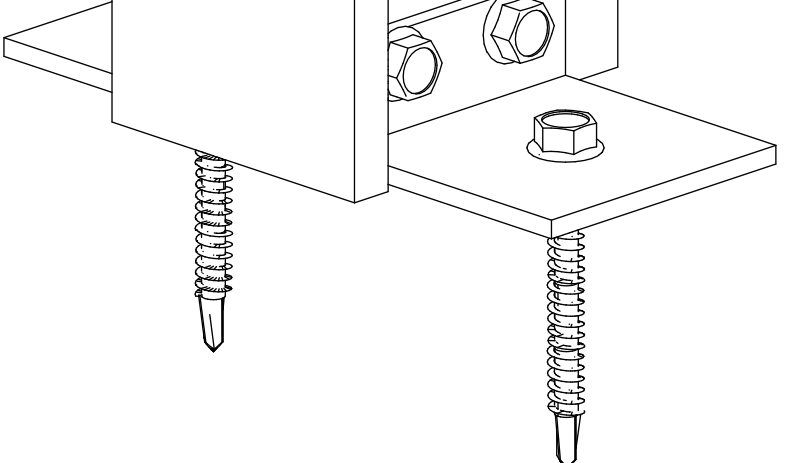
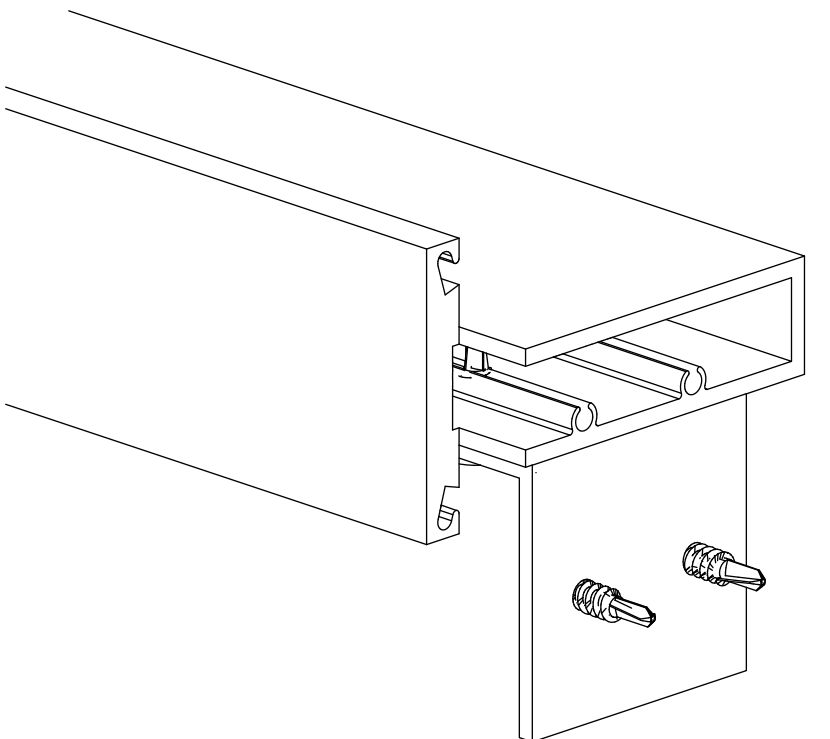
INSTALLATION NOTES:

1. FASTEN PERIMETER CHANNEL TO ALUM EAVE RAIL WITH #12 X 1-1/2" SMS 24" O/C AND WITHIN 6" OF INTERSECTING MEMBERS AND JOINTS.
2. FASTEN PERIMETER CHANNEL TO MASONRY WITH 1/4 X 2-1/4" QUICK SET 24" O/C AND WITHIN 6" OF INTERSECTING MEMBERS AND JOINTS.
3. FASTEN PERIMETER CHANNEL TO WOOD WITH 1/4 X 2-1/2" GALVANIZED LAG BOLTS 24" O/C AND WITHIN 6" OF INTERSECTING MEMBERS AND JOINTS.



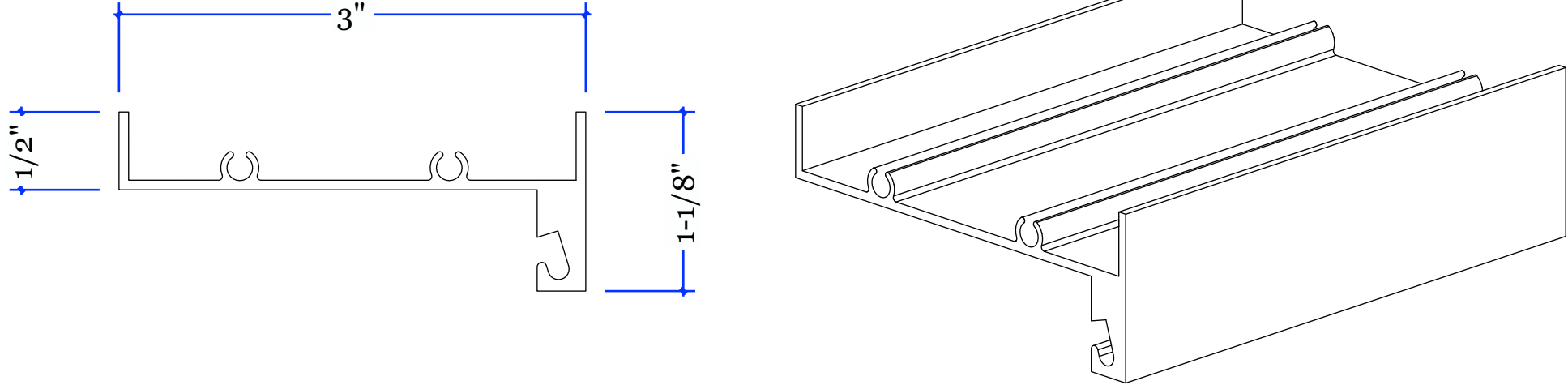
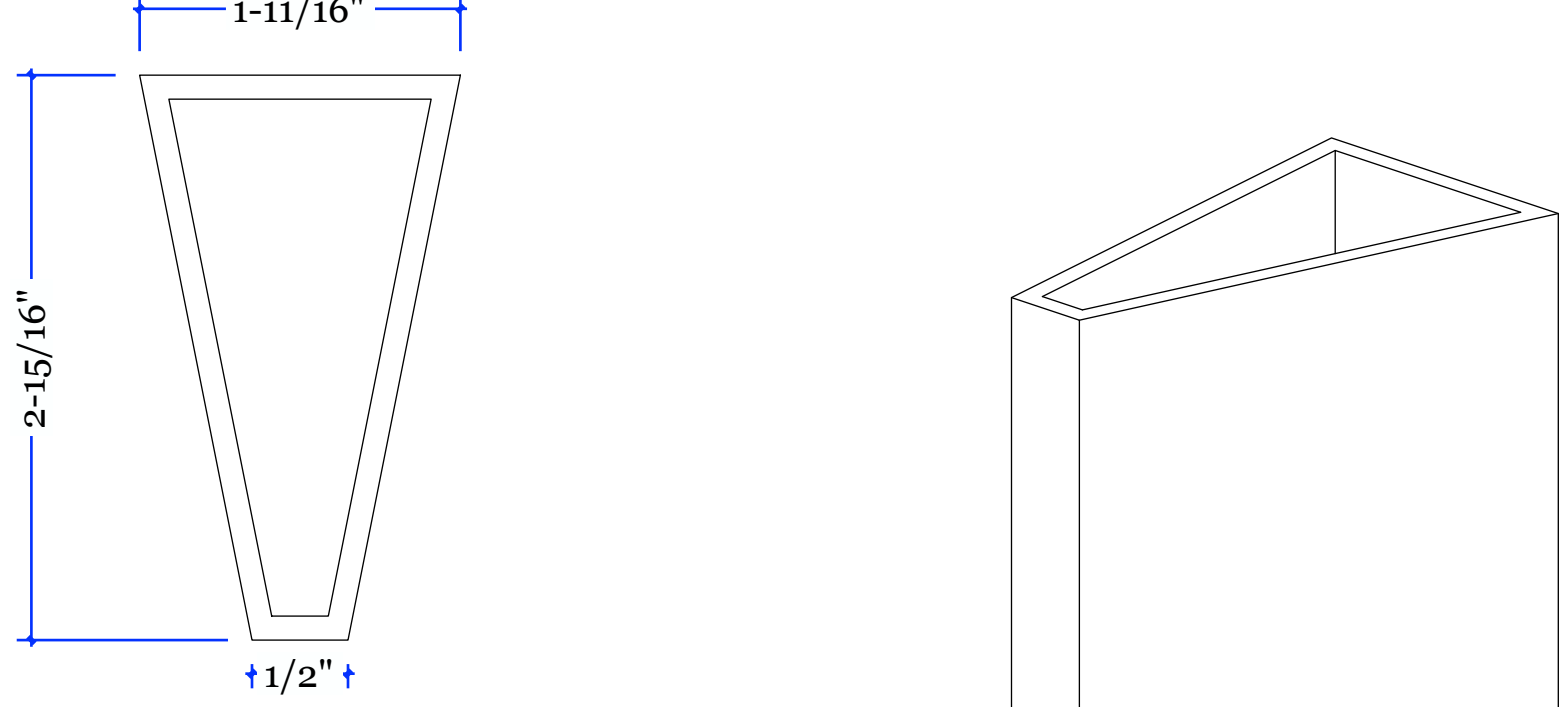
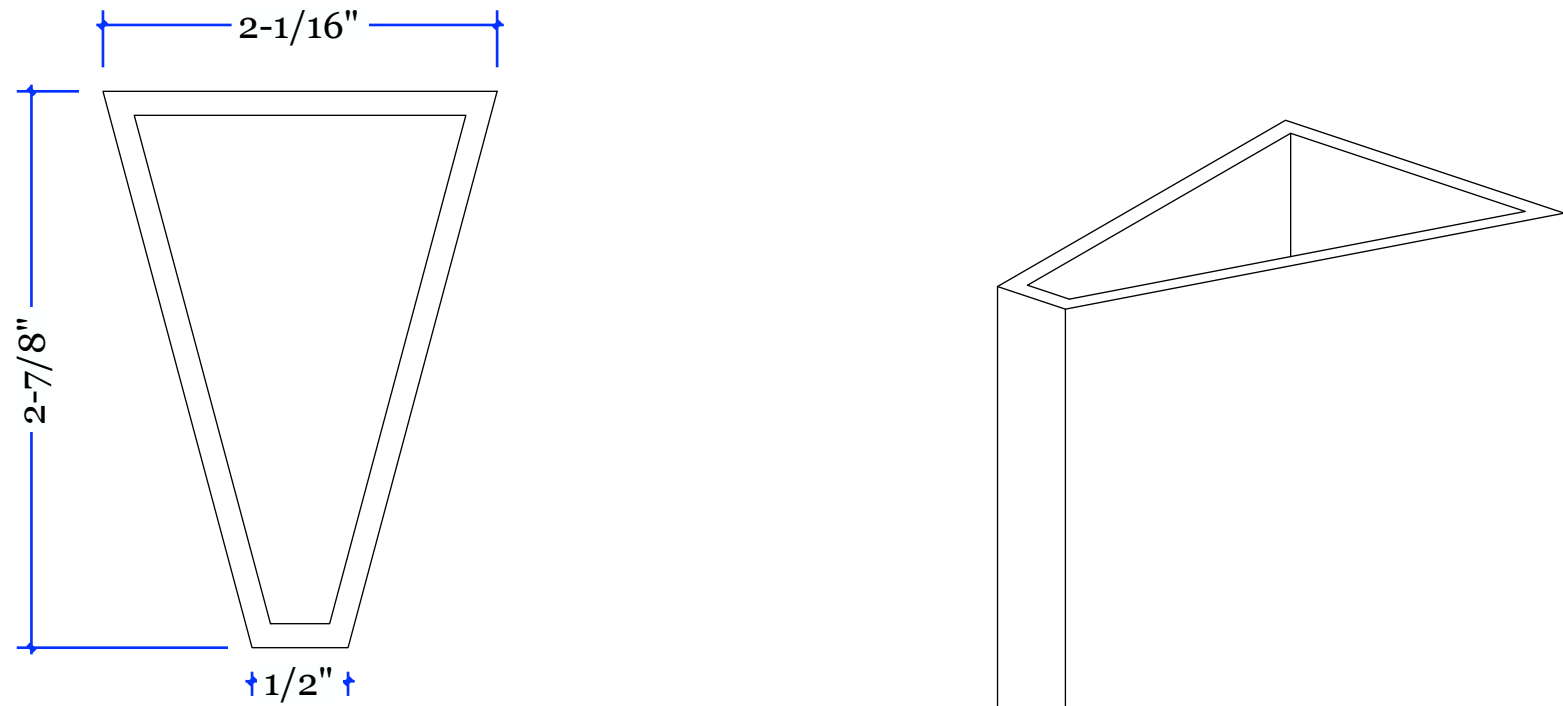
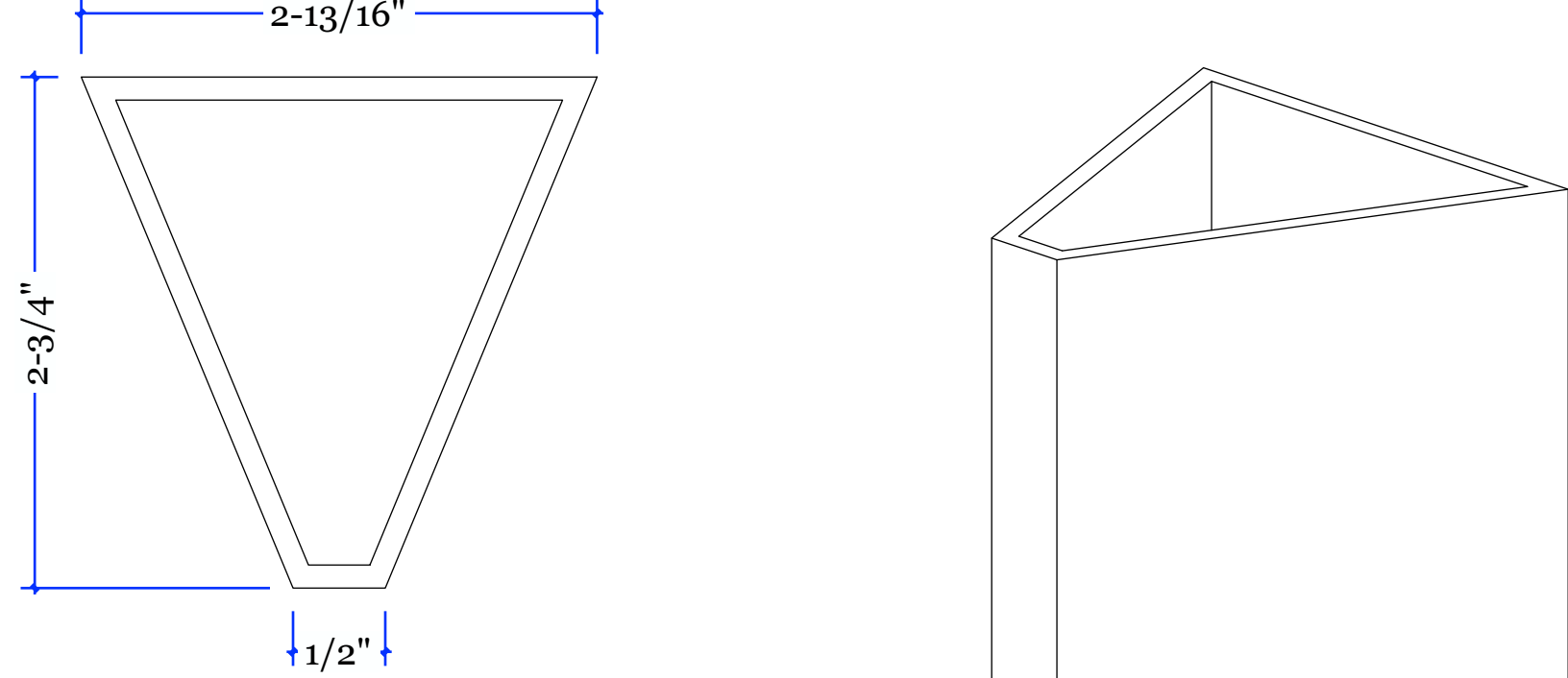
1 TYPICAL PANEL LAYOUT (CABLE VERSION)

MEMBER LEGEND

NO.	MEMBER	DETAILED INSTRUCTIONS	DRAWING
1	TRACK CHANNEL # EV-030 (BRONZE 24') # EV-031 (WHITE 24')	PERIMETER CHANNEL FASTENED TO CONCRETE AT 24" O.C. STARTING AT 2-1/2" ON EITHER SIDE OF POST. FASTEN PERIMETER CHANNEL TO MASONRY WITH 1/4" X 2-1/4" QUICKSET (FOR WOOD WITH 1/2" X 2-1/4" GALVANIZED LAG BOLTS) 24" O.C. AND WITHIN 6" OF INTERSECTING MEMBERS AND JOINTS.	 <p>SECTION LABEL: A</p> 
2*	FULL LENGTH POST # EV-032 (BRONZE 24') # EV-033 (WHITE 24')	DISTANCE BETWEEN FULL-LENGTH POST 16' (NON-EPOXY ANCHORS) UP TO 21' (WITH EPOXY ANCHORS).	 <p>SECTION LABEL: B</p> 
3*	INTERMEDIATE POST FOR PICKET (42" W/ NOTCH): # EV-034 (BRONZE 42") # EV-035 (WHITE 42") FOR CABLE (42" W/ NOTCH & PUNCH) : # EV-036 (BRONZE 42") # EV-037 (WHITE 42")	ATTACH 2-3 HOLE CLIPS 2" X 0.8" X 0.125" ANGLE EACH SIDE OF POST.	 <p>POSTS APPLICATION</p>  <p>RAILING APPLICATION</p>
4*	CHAIR RAIL # EV-038 (BRONZE 24') # EV-039 (WHITE 24')	CHAIR RAIL TO INTERMEDIATE POST AND PERIMETER CHANNEL FASTENING. 4 HOLE CLIPS EACH SIDE OF POST PERIMETER CHANNEL.	 <p>POSTS APPLICATION</p>  <p>RAILING APPLICATION</p>


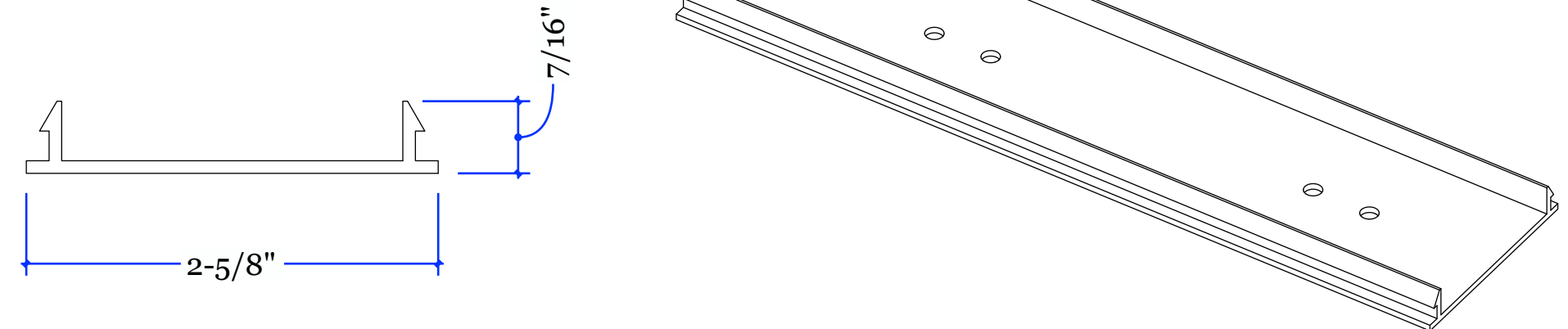
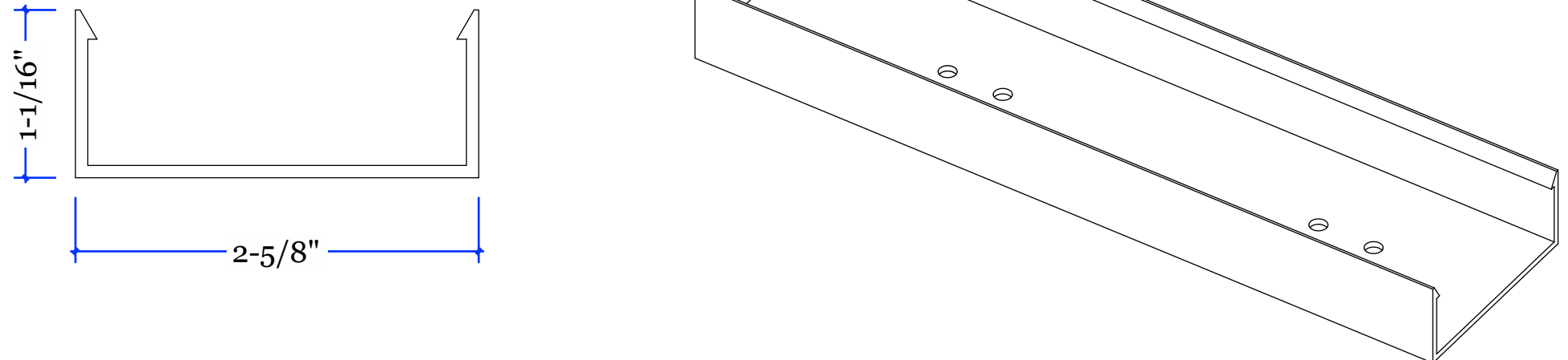
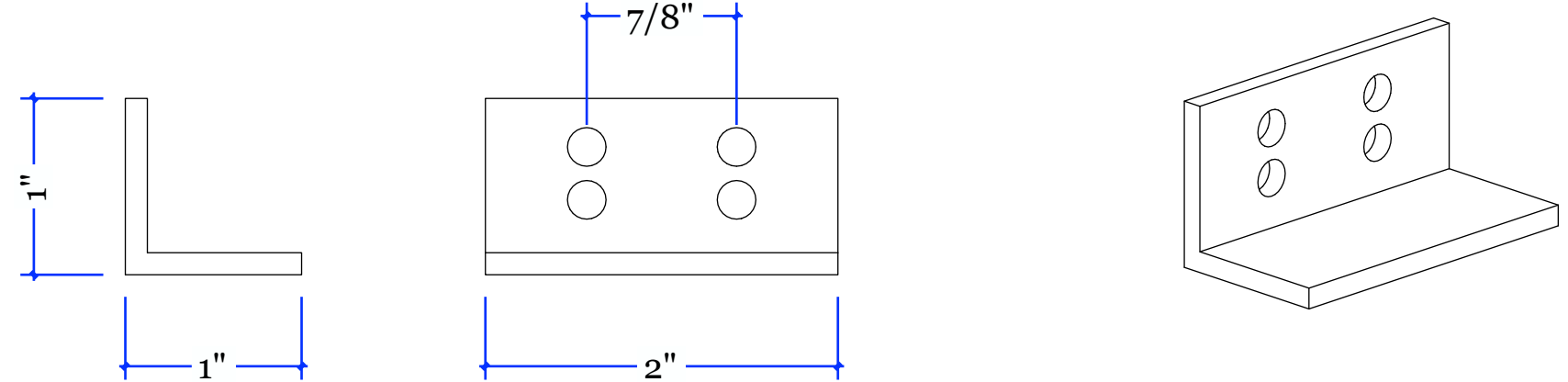
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MEMBER LEGEND

NO.	MEMBER	DETAILED INSTRUCTIONS	DRAWING
5	ARCH CHANNEL # EV-040 (BRONZE 20°) # EV-041 (WHITE 20°)	ARCH IS ABLE TO FLEX TO MEET AN ARCHED TOP OF UPPER WALL PANEL.	 <p>SECTION LABEL: C</p>
6	POST ANGLE: 22.5 # EV-042 (BRONZE 24°) # EV-043 (WHITE 24°)	USED AS FULL LENGTH POST WHEN WALL ANGLES BACK AT A 22.5° ANGLE.	 <p>SECTION LABEL: D</p>
6	POST ANGLE: 30 # EV-044 (BRONZE 24°) # EV-045 (WHITE 24°)	USED AS FULL LENGTH POST WHEN WALL ANGLES BACK AT A 30° ANGLE.	 <p>SECTION LABEL: D</p>
6	POST ANGLE: 45 # EV-046 (BRONZE 24°) # EV-047 (WHITE 24°)	USED AS FULL LENGTH POST WHEN WALL ANGLES BACK AT A 45° ANGLE.	 <p>SECTION LABEL: D</p>

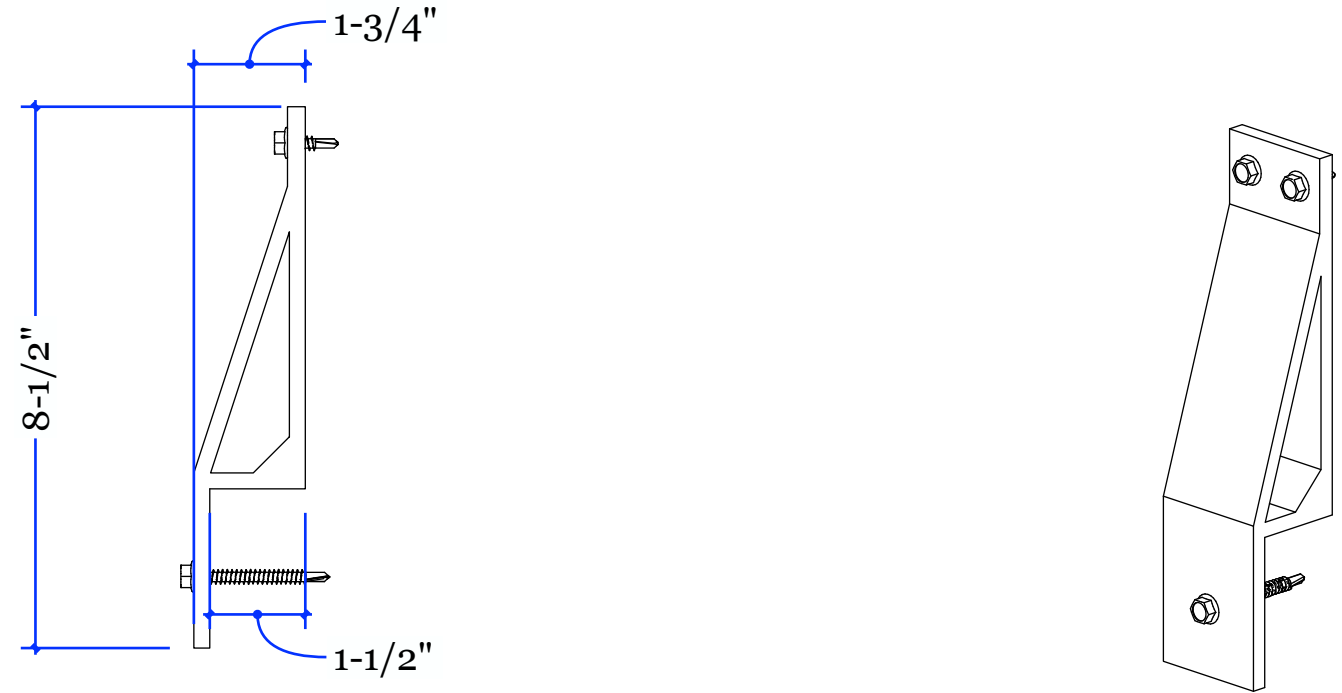

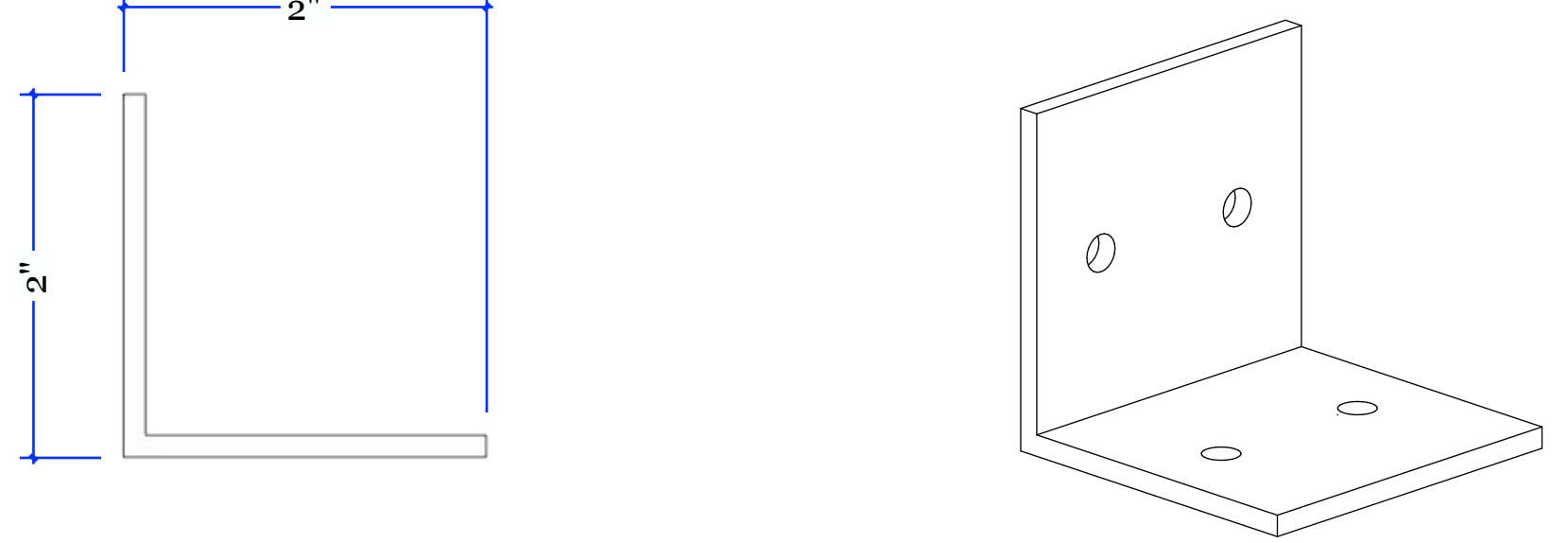
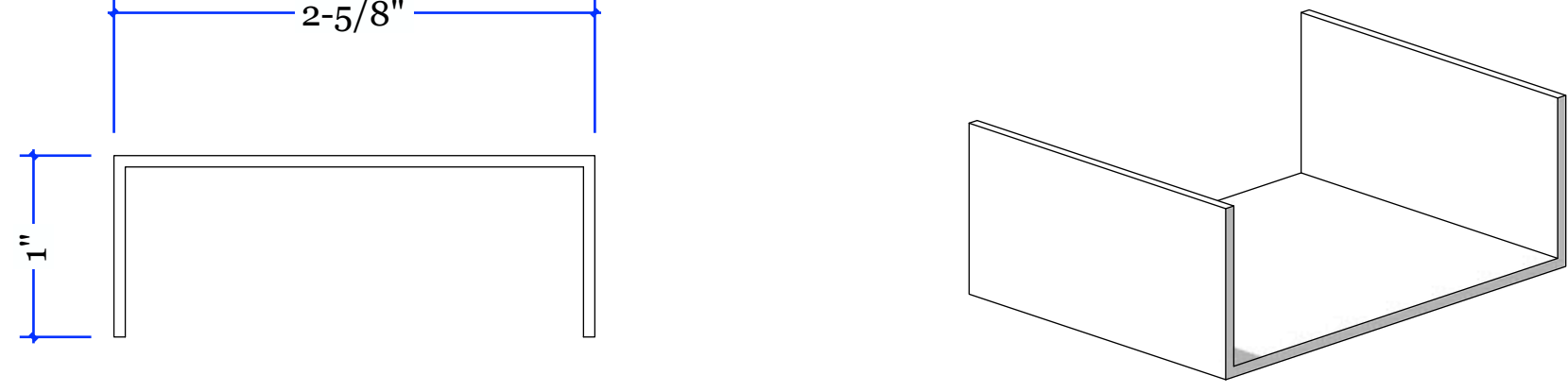
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MEMBER LEGEND

NO.	MEMBER	DETAILED INSTRUCTIONS	DRAWING
7	<p>PICKET</p> <p># EV-048 (BRONZE 19'10") # EV-049 (WHITE 19'10")</p>	<p>CUT TO LENGTH AND FASTEN WITH 10 X 1/2" TO TOP AND BOTTOM PRE-PUNCHED PICKET TRACK.</p>	 <p>SECTION LABEL: E</p>
8	<p>PICKET SNAP PLATE 24' W/ PUNCH</p> <p># EV-050 (BRONZE 24') # EV-051 (WHITE 24')</p>	<p>OPTIONAL PICKET PANEL INSERT. PRE-PUNCHED FOR EASY INSTALLATION OF 1" X 1" PICKET.</p>	 <p>SECTION LABEL: F</p>
9	<p>PICKET CHANNEL W/ PUNCH</p> <p># EV-052 (BRONZE 24') # EV-053 (WHITE 24')</p> <p>PICKET CHANNEL</p> <p># EV-054 (BRONZE 24') # EV-055 (WHITE 24')</p>	<p>OPTIONAL PICKET PANEL INSERT. PRE-PUNCHED FOR EASY INSTALLATION OF 1" X 1" PICKET.</p>	 <p>SECTION LABEL: G</p>
10	<p>PICKET CLIP</p> <p># EV-056 (BRONZE) # EV-057 (WHITE)</p>	<p>MOUNTED TO POSTS TO RECEIVE PICKET CHANNEL.</p>	 <p>SECTION LABEL: H</p>

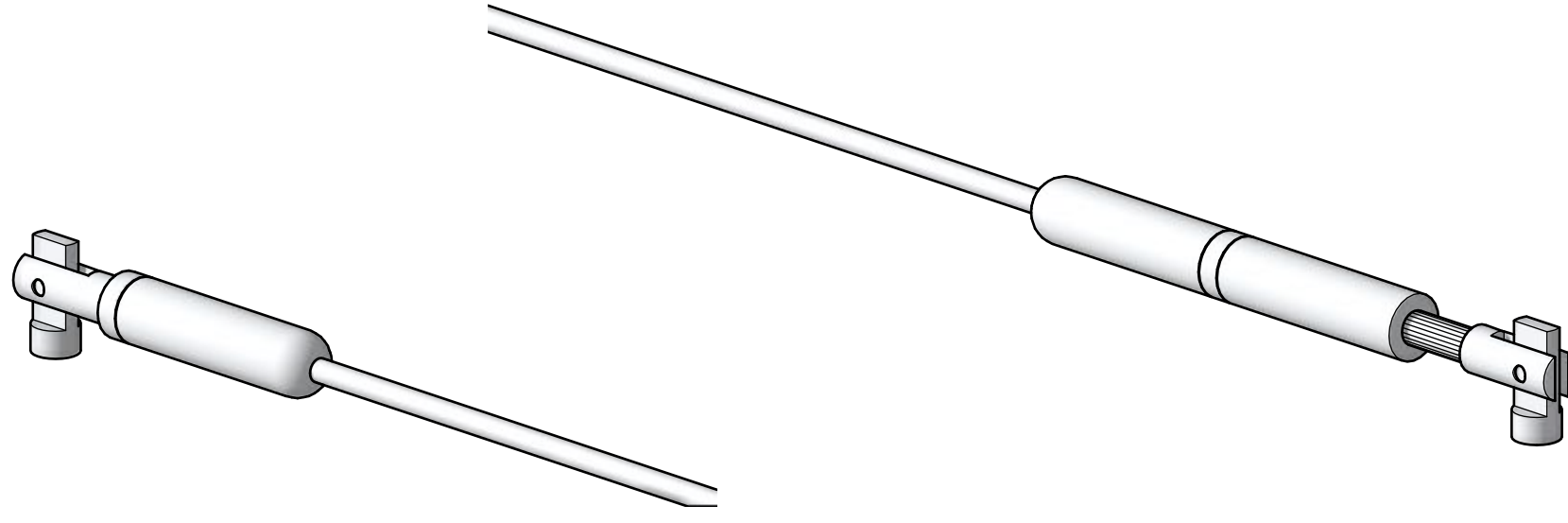
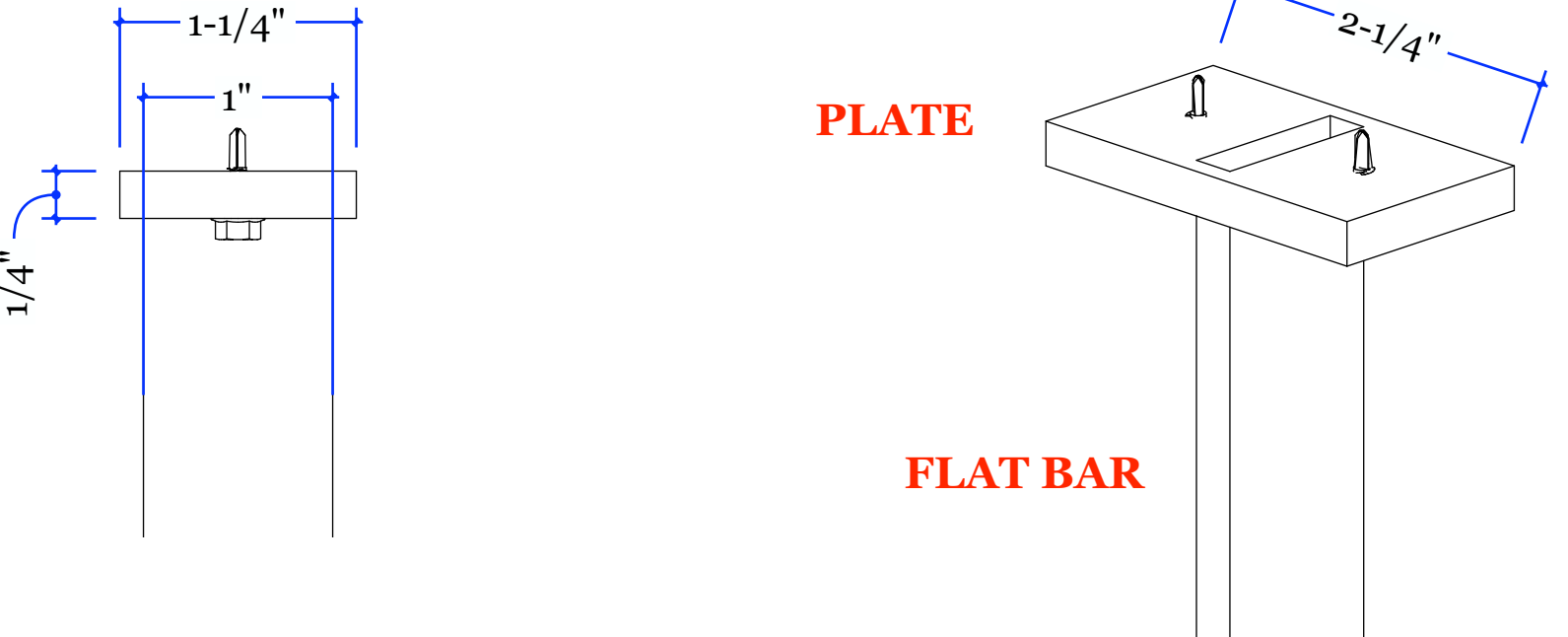
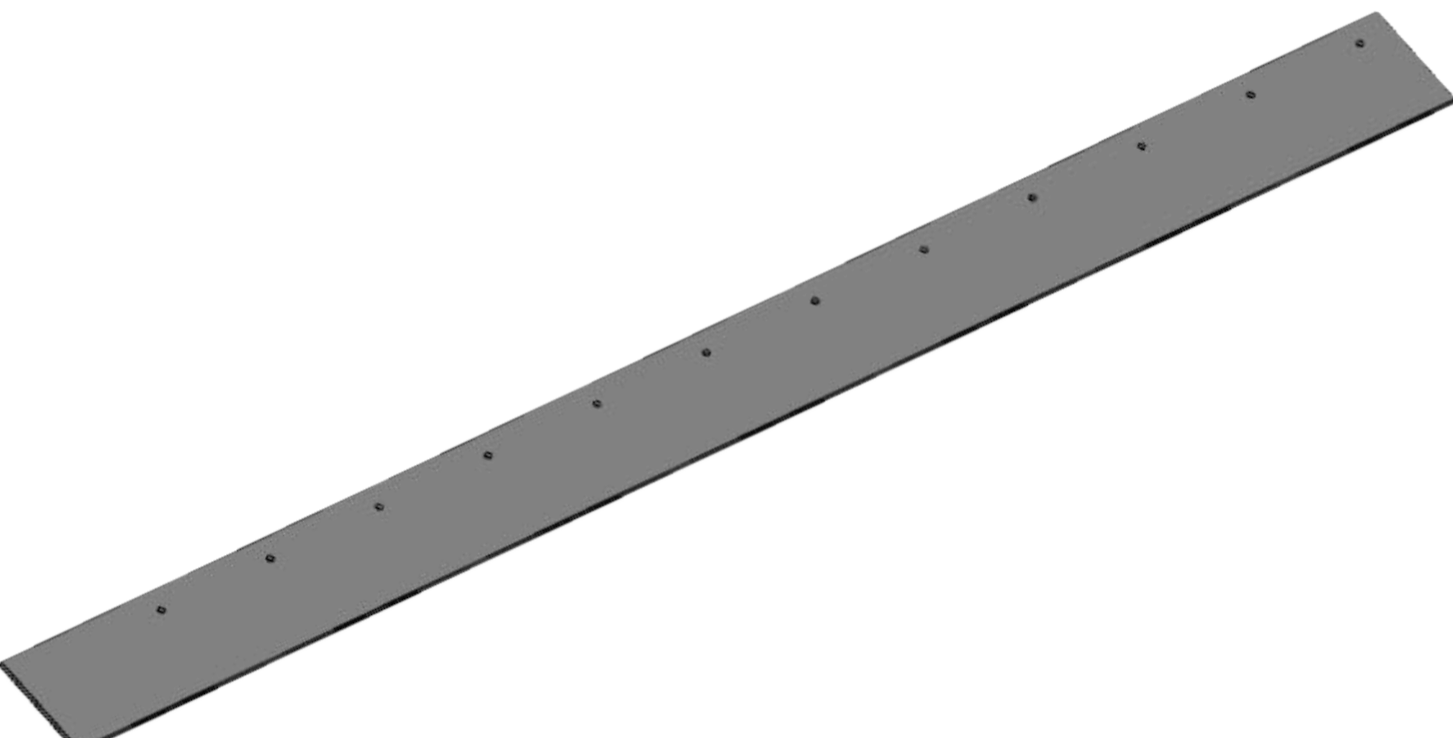
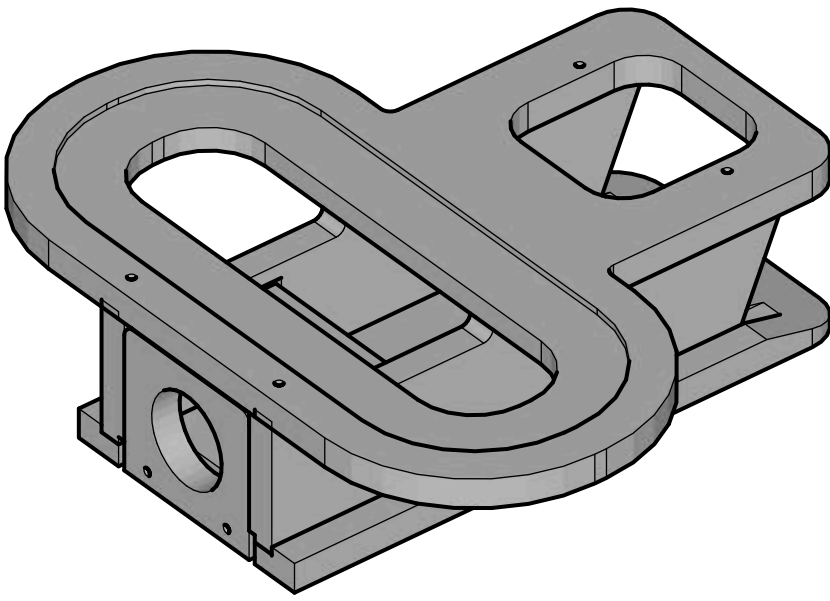
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MEMBER LEGEND

NO.	MEMBER	DETAILED INSTRUCTIONS	DRAWING
11	Z-BRACKET # EV-058 (BRONZE) # EV-059 (WHITE)	INSTALLATION IS REQUIRED WHEN FULL LENGTH POST OR END WALLS ARE GREATER THAN 16' TO MAXIMUM OF 21'. IT IS POSSIBLE TO SUBSTITUTE Z BRACKET WITH 2" X 2" CLIP. SEE SITE SPECIFIC ENGINEERINGS FOR SPECS.	 <p>SECTION LABEL: I</p>
12	3 HOLE CLIP # EV-060 (BRONZE) # EV-061 (WHITE)	ONE ON EACH SIDE OF INTERMEDIATE POST BOTTOM. ALSO INSTALLED ONE ON EACH SIDE OF FULL LENGTH POST BOTTOM AND TOP. THIS CLIP IS ALWAYS COVERED BY PERIMETER CHANNEL. IT IS ALSO USED ON MULLIONS (ANGLED POST).	 <p>SECTION LABEL: J</p>
13	4 HOLE CLIP # EV-062 (BRONZE) # EV-063 (WHITE)	INSTALLED WHEREVER CHAIR RAIL MEETS PERIMETER CHANNEL, AND ONE ON EACH SIDE OF INTERMEDIATE POST ATTACHED TO CHAIR.	 <p>SECTION LABEL: K</p>
14	DRAINAGE PROFILE # EV-064 (BRONZE 24") # EV-065 (WHITE 24")	NOT A REQUIRED ENGINEERING USE. WAITING FOR NEW DESCRIPTION FROM FLORIDA ENGINEERING.	 <p>SECTION LABEL: L</p>

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MEMBER LEGEND

NO.	MEMBER	DETAILED INSTRUCTIONS	DRAWING
15	<p>WIRE ROPE</p> <p># EV-066 (TENSIONER TOGGLE) # EV-067 (FIXED TOGGLE)</p>	<p>1/8" CABLE ANCHORED TO PUSH-LOCK AT 3" O.C.</p>	 <p>FIXED TENSIONER</p>
16	<p>FLAT BAR</p> <p># EV-068 (BRONZE) # EV-069 (WHITE)</p> <p>FLAT BAR PLATE</p> <p># EV-070 (BRONZE) # EV-071 (WHITE)</p>	<p>CAN BE USED IN CONJUNCTION WITH INTERMEDIATE POST, REQUIRES SITE SPECIFIC ENGINEERING FOR PLACEMENT.</p>	 <p>SECTION LABEL: M</p> <p>PLATE FLAT BAR</p>
	<p>CABLE HOLES TEMPLATE</p> <p># EV-072</p>	<p>TYPICALLY USED ON END PERIMETER CHANNEL, AND FULL LENGTH POST.</p>	
	<p>NOTCH JIG</p> <p># EV-073</p>	<p>TYPICALLY USED ON EACH SIDE OF ALL HORIZONTAL EXTRUSIONS.</p>	

**EDGEVIEW
RAILING SYSTEM MASTER PLAN**

ADDITIONAL PARTS AND TOOLS

MEMBER	DRAWING / PHOTO	MEMBER	DRAWING / PHOTO
<p>CABLE GROMMETS</p> <p># EV-074 (BAG OF 25)</p>		<p>REAMER</p> <p># EV-080</p>	
<p>WIRE CABLE</p> <p># EV-075 (1.000FT ROLL)</p> <p># EV-076 (500FT ROLL)</p>		<p>CABLE GROMMET TOOL</p> <p># EV-081</p>	
<p>3/8" X 2-1/2" 304SS</p> <p># EV-077</p>		<p>TENSIONER WRENCH</p> <p># EV-082</p>	
<p>TOTAL CABLE CARE KIT</p> <p># EV-078 (2PK)</p>		<p>5/16 DRILL BIT FOR TOGGLES</p> <p># EV-083</p>	
<p>PUSH LOCK KEY</p> <p># EV-079</p>		<p>TENSION GAUGE</p> <p># EV-084</p>	

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