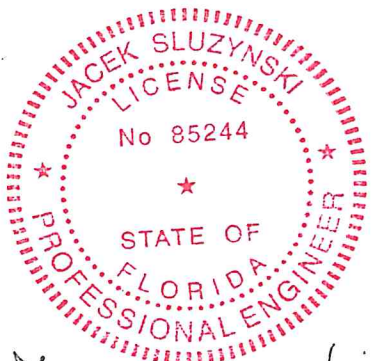




**BOL ALUMINUM RAILING
SYSTEM IBC 2021 AND IRC 2021**

6/16/2025

**JACEK SLUZYNSKI, P.E.
BARRETTE OUTDOOR LIVING
2401 CORPORATE BLVD • BROOKSVILLE, FL 34604
(352) 754-8555**



Jacek Sluzynski
6/16/2025



Jacek Sluzynski
6/16/2025



Jacek Sluzynski
6/16/2025



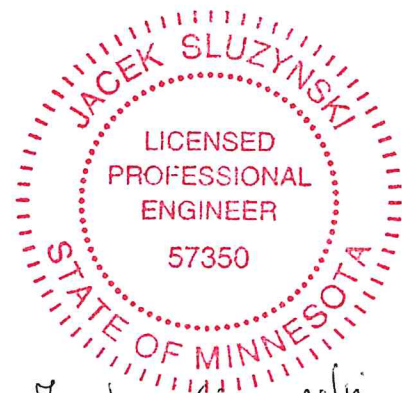
Jacek Sluzynski
6/16/2025



Jacek Sluzynski
6/16/2025



Jacek Sluzynski
6/16/2025



Jacek Sluzynski
6/16/2025



Jacek Sluzynski
6/16/2025

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 54659, Expiration Date: 7/11/2025

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.

Signature: Jacek Sluzynski

Typed or Printed Name: JACEK SLUZYNSKI

Date: 6/16/2025 License Number: 57350



Jacek Sluzynski
6/16/2025



Jacek Sluzynski
6/16/2025



Jacek Sluzynski
6/16/2025



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6/16/2025



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6/16/2025



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6/16/2025



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6/16/2025



Jacek Sluzynski
6/16/2025



Jacek Sluzynski
6/16/2025



EXPIRES: 06/30/2026
Jacek Sluzynski
6/16/2025



Jacek Sluzynski
6/16/2025



Jacek Sluzynski
6/16/2025



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Jacek Sluzynski
6/16/2025



Jacek Sluzynski
6/16/2025

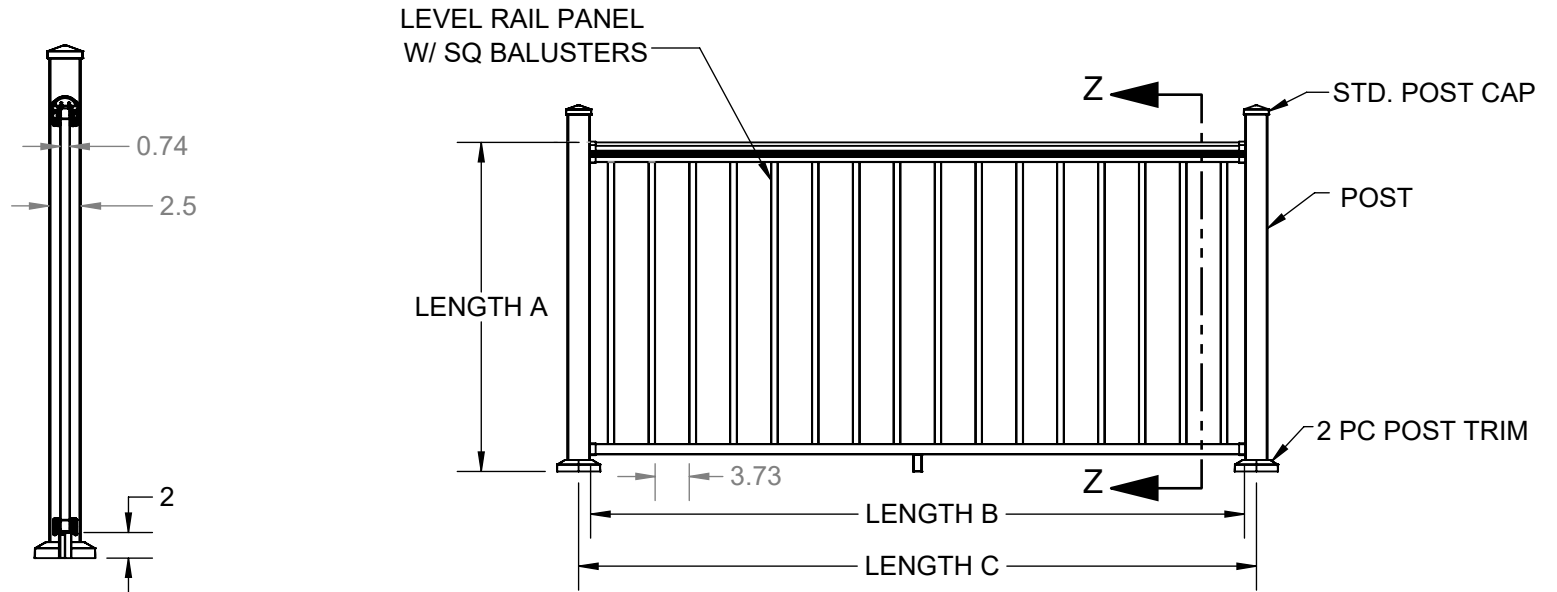
GENERAL NOTES

1. The "Avalon Railing" (*guard*) meets or exceeds the 2021 International Building Code (IBC) section 1607.8. and R301.5. 2021 International Residential Code (IRC).
2. Loads:
 - 2.1. The top railing of the *guard* is capable of transferring to the anchoring connection a point load of 200 pounds (Residential applications) and 200 pounds or 50 pounds per linear foot (Commercial applications) applied in any direction.
 - 2.2. The infill (pickets, glass slats, DSP panels, cables) are capable of transferring to the anchoring connection a horizontally applied normal load of 50 pounds exerted over 1 square foot.
3. The professional engineer (PE) is responsible for the design of the *guard* to the bottom of the base plate, to the bottom of the post, and to the mounting surface of the upper and lower railing wall brackets. The PE is not responsible for the design of the anchoring substrate, such as, concrete or wood. Except for the fasteners specified, the PE is not responsible for the selection or location of the anchoring fasteners.
4. The use of this specification indemnifies and saves harmless the PE from all cost and damages including legal fees and appellate fees resulting from material and part fabrication, manufacturing, assembly, system design and erection, construction practices, and Barrette warranties. Neither the PE nor Barrette shall be held responsible or liable in any way for the use of this product in applications other than shown on this drawing.
5. Materials and manufacturing of the guard shall be in accordance with the Aluminum Association's 2015 "Aluminum Design Manual".
6. All *guard* extrusions shall be aluminum 6005-T5 except pickets which shall be 6063-T52. Cables are 316SS.
7. All *guard* fasteners are 410 stainless steel.
8. Barrette manufacturing tolerances for the guard are equal to or tighter than allowed by the IBC and IRC. Contact Barrette for specific tolerances.
9. All concrete shall be uncracked only, with a minimum compressive strength of 3000psi and shall be minimum 1.5X thicker than any anchor 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% fiber mesh admixture per CY.
10. All wood shall be pressure treated No. 2 Southern Yellow Pine with minimum specific gravity, $G=0.55$

11. Surrounding soil to be compacted to 98% optimum density, 2500 psf minimum and
12. Insulate aluminum from dissimilar metals to prevent electrolysis. Insure all bare metal is protected from corrosive environments such as installation near the ocean.
13. Neither the PE nor Barrette is responsible for construction tolerances, field dimensions, or installation of the *guard*.
14. No changes are allowed without written authorization from the engineer.
15. Copies of this drawing without an original signature and seal of the engineer are invalid.
16. No inspection was made at this jobsite and the design depicted herein is based upon data supplied by the contractor. This engineer is to not be held liable or in any way responsible for the use of any inaccurate information supplied by others. The contractor shall field verify all measurements and information used in this design before any changes are made to field condition, fabrication and the installation of the materials.

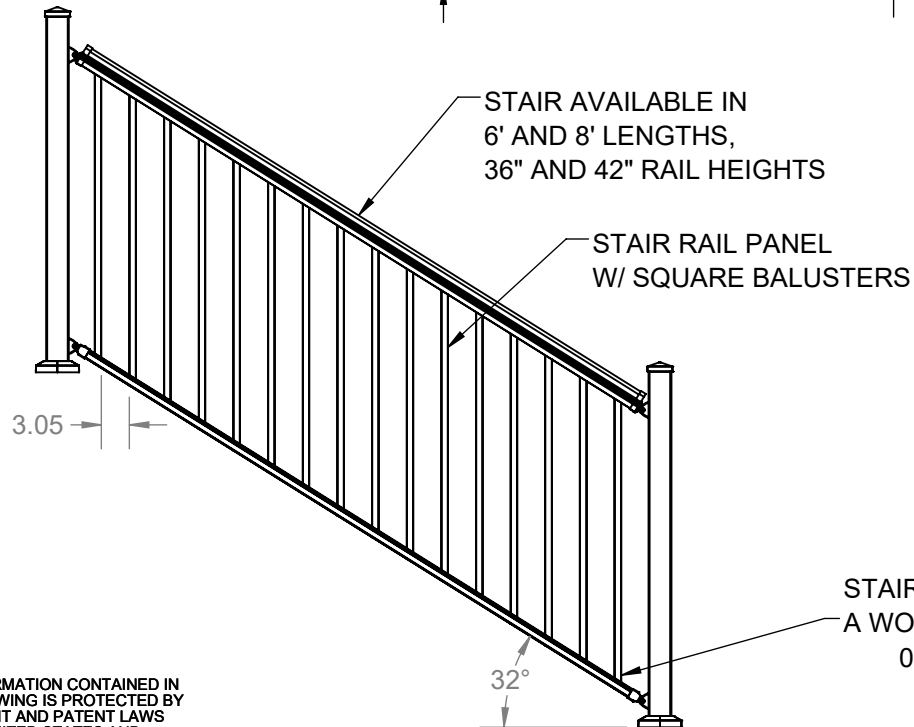
AVALON ALUMINUM RAIL AND BALUSTER DETAILS

SECTION Z-Z
SCALE 1 : 15



NOTE:

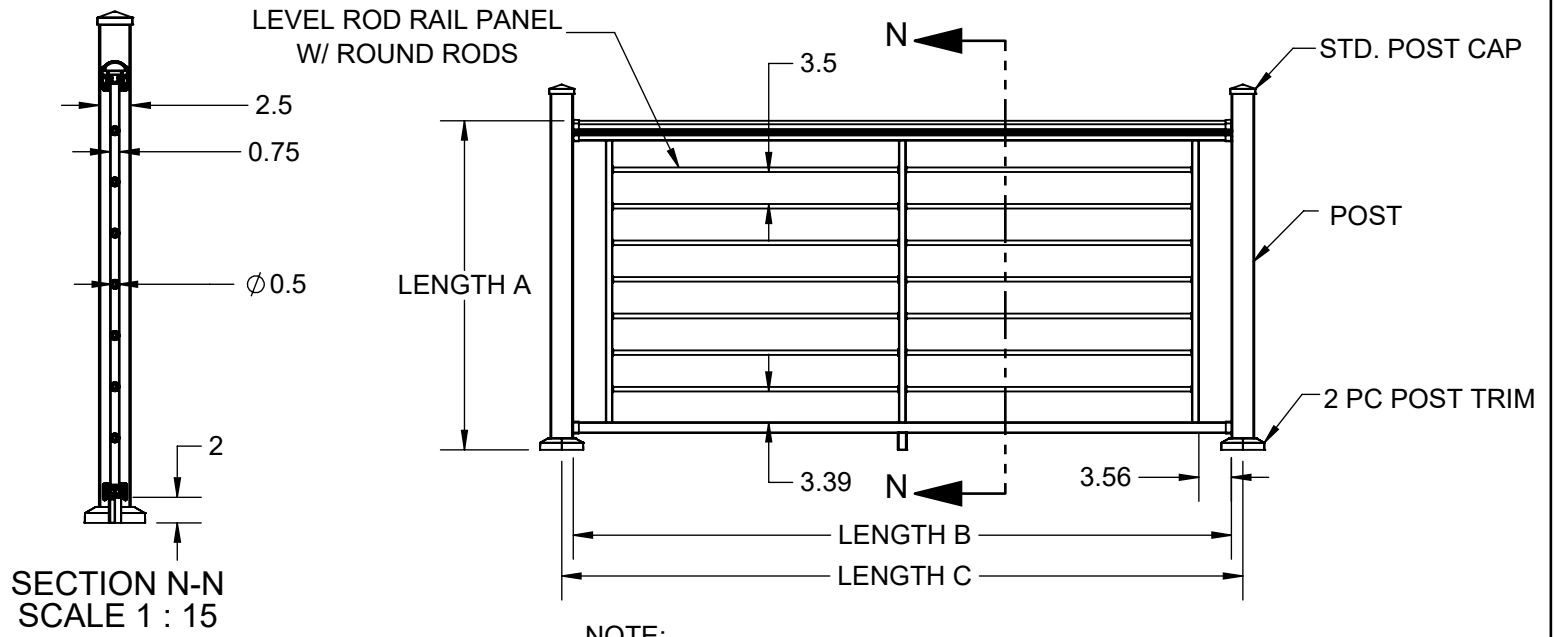
- (A) FINISHED RAIL HEIGHT = 36", 42"
- (B) PANEL LENGTH = 71.5", 95.5"
- (C) MAX IRC AND IBC SPANS = 98.5"X36", 98.5"X42"



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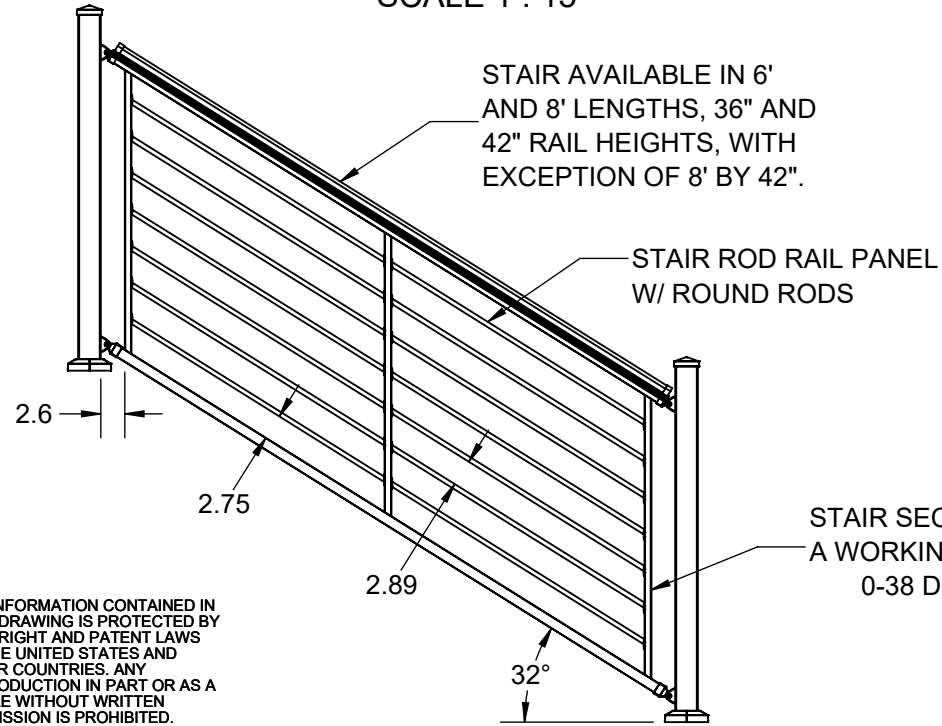
Barrette OUTDOOR LIVING		
DRAWN: CH	DATE: 6/16/2021	APPROVED:
DESCRIPTION: AVALON LEVEL AND STAIR RAIL		
SHEET 1 OF 18	REVISION	PART NUMBER
SCALE 1:21		N/A
WEIGHT: N/A		

AVALON HORIZONTAL ROD RAIL DETAILS



SECTION N-N
SCALE 1 : 15

NOTE:
 (A) FINISHED RAIL HEIGHT = 36", 42"
 (B) PANEL LENGTH = 71.5", 95.5"
 - AVOID CUTTING TO LENGTHS BETWEEN 64.5" TO 67", 88.5" TO 91"
 (C) MAX IRC AND IBC SPANS = 98.5"X36", 98.5"X42"



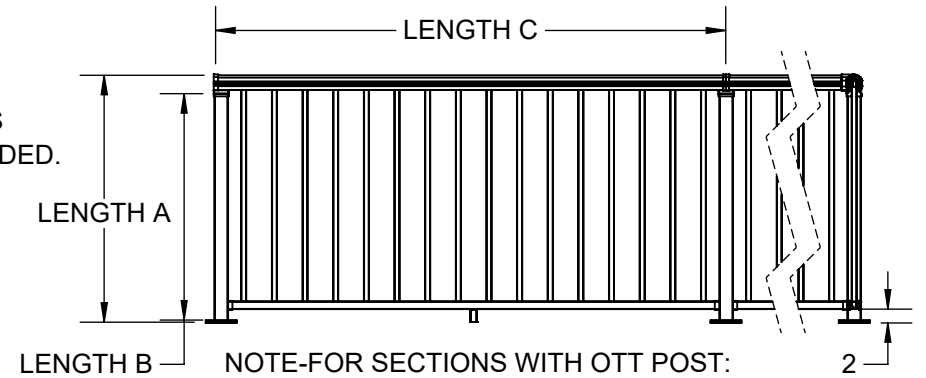
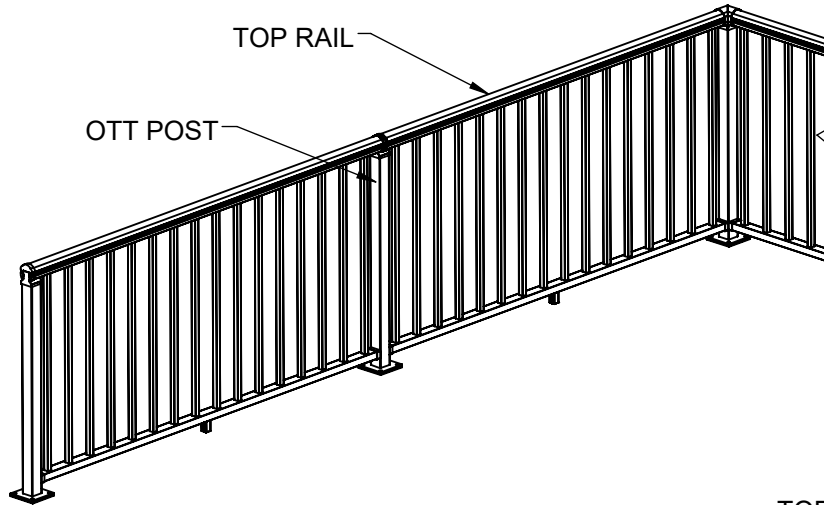
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Barrette OUTDOOR LIVING		
DRAWN: CH	DATE: 6/16/2021	APPROVED:
DESCRIPTION: AVALON LEVEL AND STAIR ROD RAIL		
SHEET 2 OF 18	REVISION	PART NUMBER
SCALE 1:21	0	N/A
WEIGHT: N/A		

AVALON OVER THE TOP (OTT) LEVEL AND STAIR RAIL DETAILS

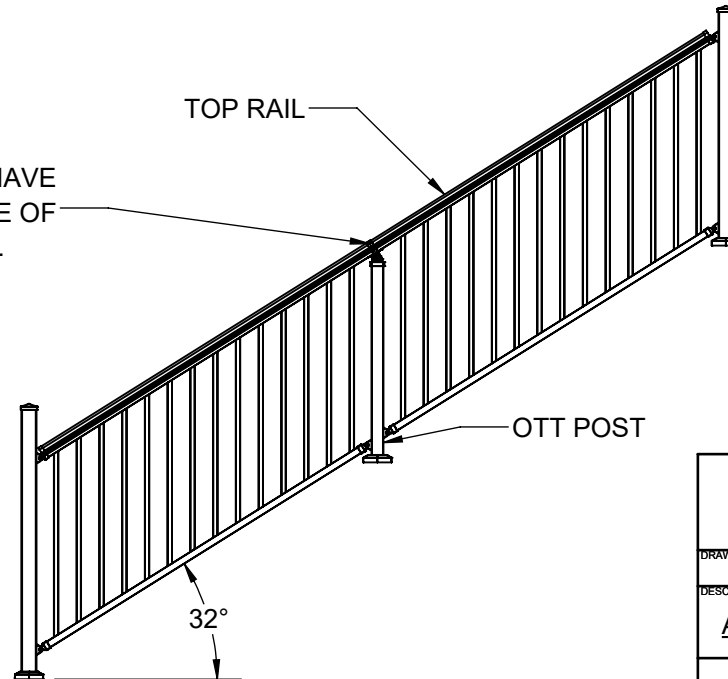
NOTE:

1. FOR LEVEL OTT, A TOP RAIL LONGER THAN PANEL LENGTH IS NEEDED.
- IRC COMPLIANT PANELS (RESIDENTIAL) ARE 6FT MAXIMUM APPLICATIONS
- IBC COMPLIANT PANELS (COMMERCIAL) ARE 5FT MAXIMUM APPLICATIONS
2. FOR STAIR OTT, A TOP RAIL AND PANEL LONGER THAN POST GAP IS NEEDED.



NOTE-FOR SECTIONS WITH OTT POST:
 (A) FINISHED RAIL HEIGHT = 36", 42"
 (B) POST HEIGHT = 33", 39"
 (C) MAX IRC SPAN = 72"X36", MAX IBC SPAN = 60"X42"

STAIR SECTIONS HAVE
 A WORKING RANGE OF
 0-38 DEGREES.

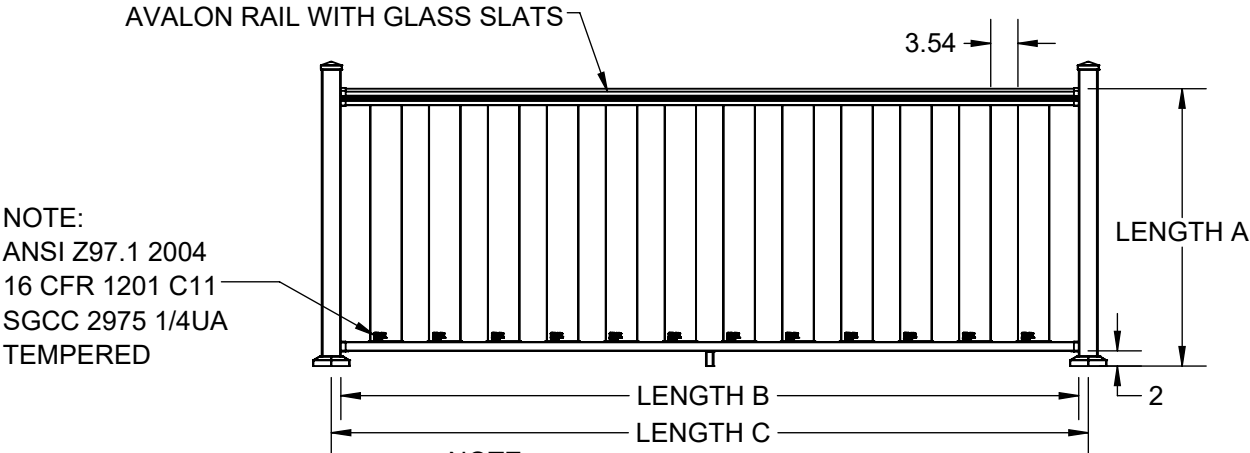


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Barrette OUTDOOR LIVING		
DRAWN: CH	DATE: 6/16/2021	APPROVED:
DESCRIPTION: AVALON OVER THE TOP AND GLASS RAIL		
SHEET 3 OF 18	REVISION	PART NUMBER
SCALE 1:28		N/A
WEIGHT: N/A		

AVALON GLASS LEVEL RAIL DETAILS

NOTE:
1. NO STAIRS AVAILABLE FOR AVALON GLASS.

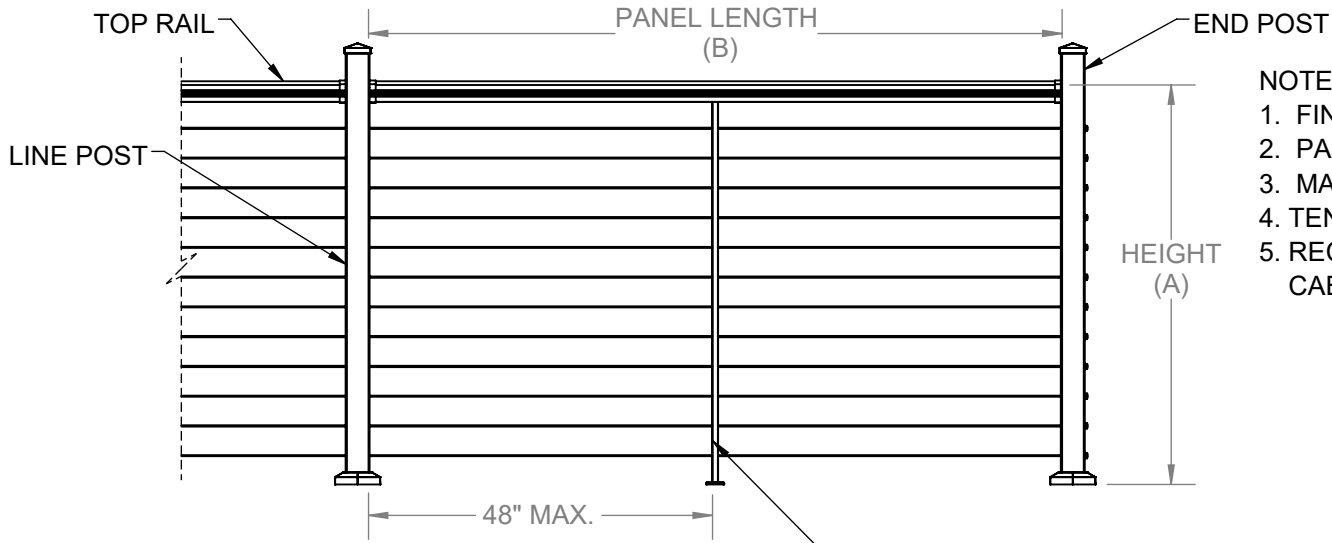


NOTE:
(A) FINISHED RAIL HEIGHT = 36", 42"
(B) PANEL LENGTH = 71.5", 95.5"
(C) MAX SPANS = 98.5X36" IRC, 98.5X42" IBC

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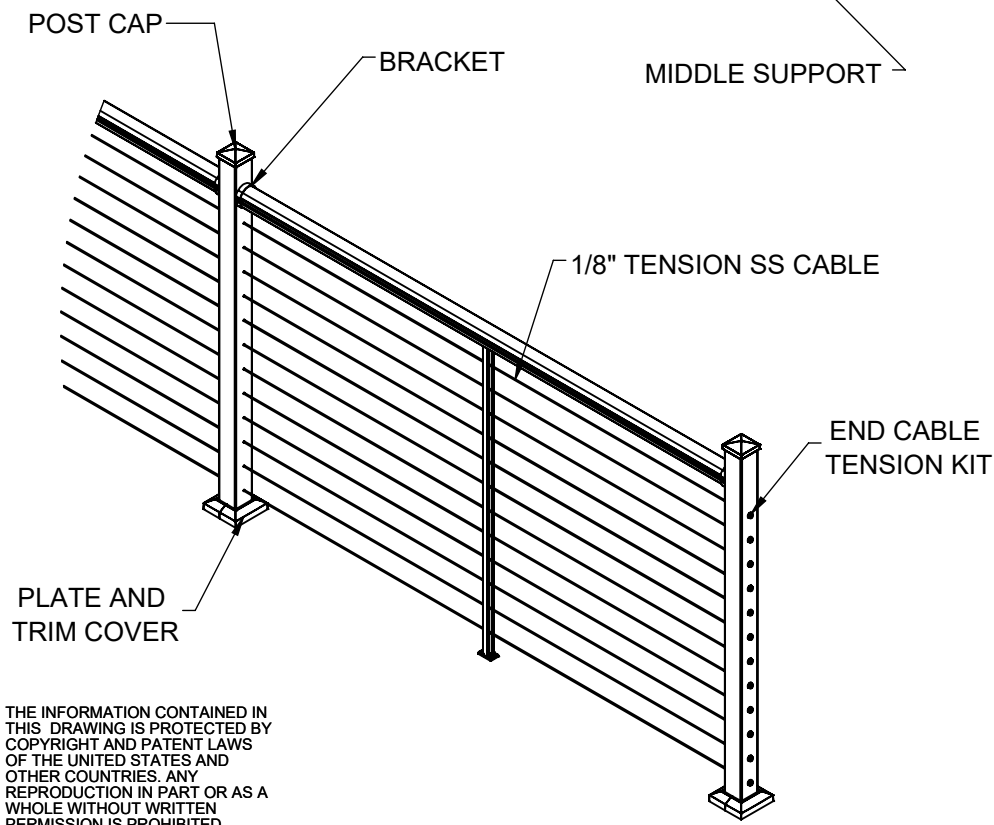
Barrette OUTDOOR LIVING		
DRAWN: CH	DATE: 6/16/2021	APPROVED:
DESCRIPTION: AVALON GLASS RAIL		
SHEET 4 OF 18	REVISION	PART NUMBER
SCALE 1:25		N/A
WEIGHT: N/A		

CABLE RAILING PANEL-DETAILS

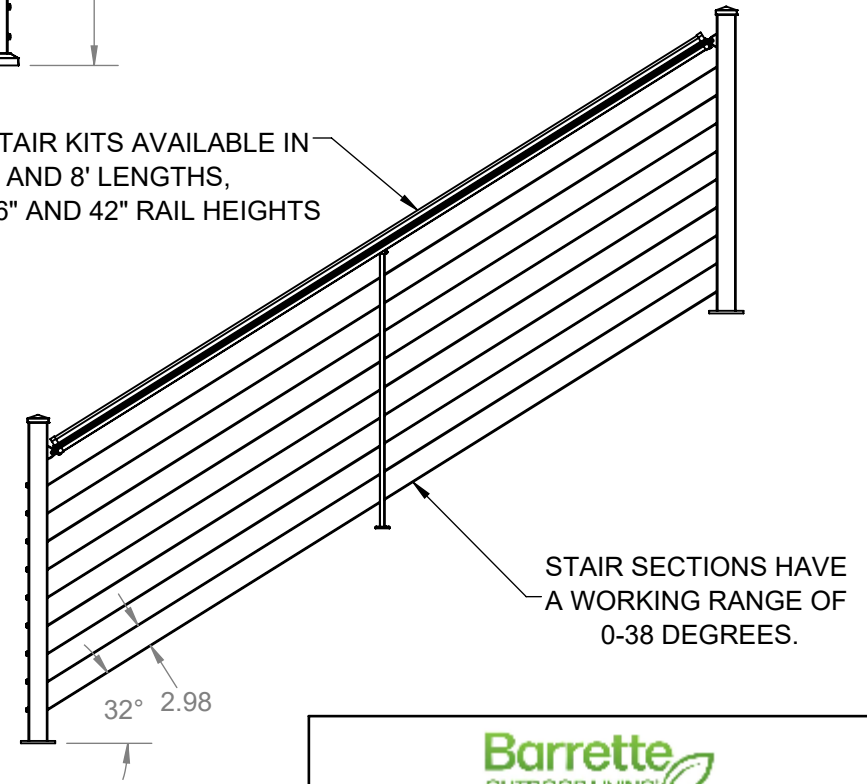


NOTE:

1. FINISHED RAIL HEIGHT (A) = 36", 42"
2. PANEL LENGTH (B) = 71.5", 95.5"
3. MAX PANEL SIZE = 96X36" IRC, 96X42" IBC
4. TENSION CABLE TO PREVENT PASSING 4" SPHERE.
5. RECOMMENDED PULLING FORCE FROM CABLE MANUFACTURER 225 LBS



STAIR KITS AVAILABLE IN 6' AND 8' LENGTHS, 36" AND 42" RAIL HEIGHTS

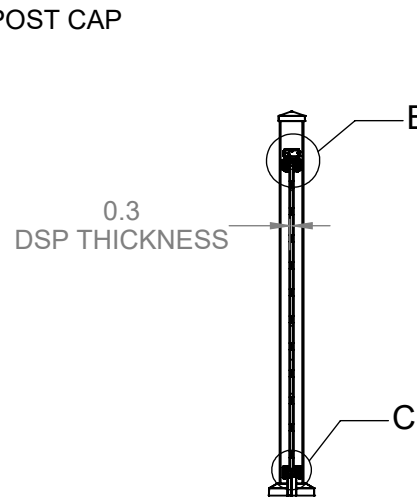
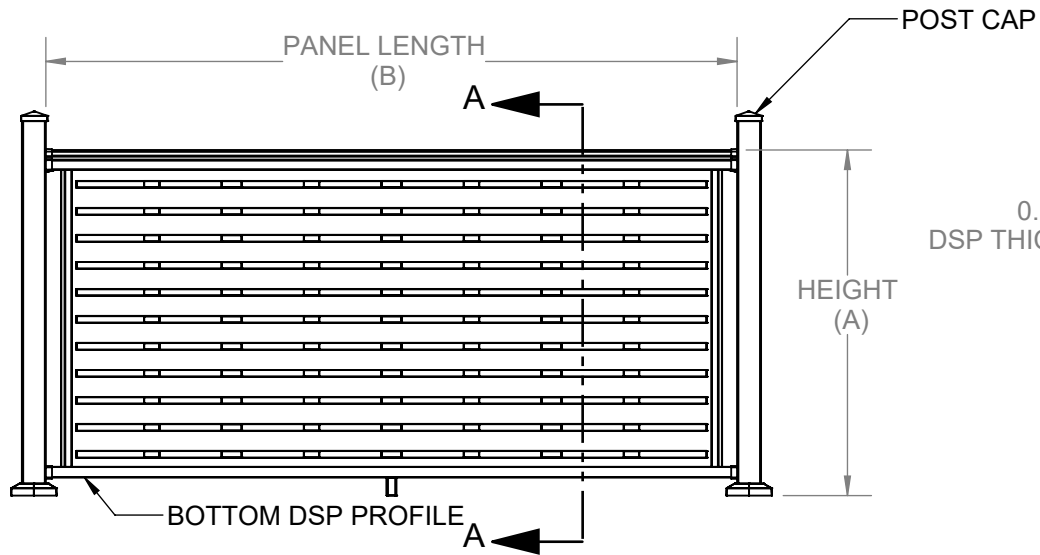


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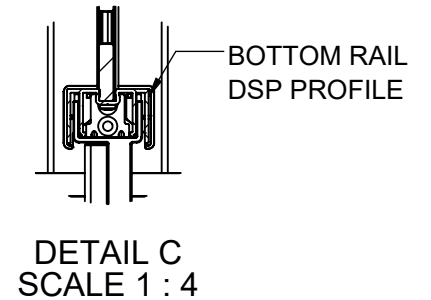
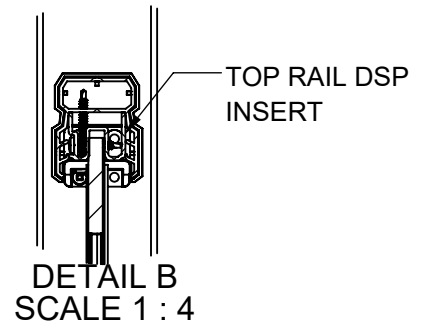
Barrette OUTDOOR LIVING!		
DRAWN: CH	DATE: 6/16/2021	APPROVED:
DESCRIPTION: CABLE RAILING - DETAILS		
SHEET 5 OF 18	REVISION	PART NUMBER
SCALE 1:25	0	N/A
WEIGHT: N/A		

RAILING WITH DISPLAY PANEL (DSP)-DETAILS

RAILING WITH 3X6 DISPLAY PANEL-DETAILS



SECTION A-A



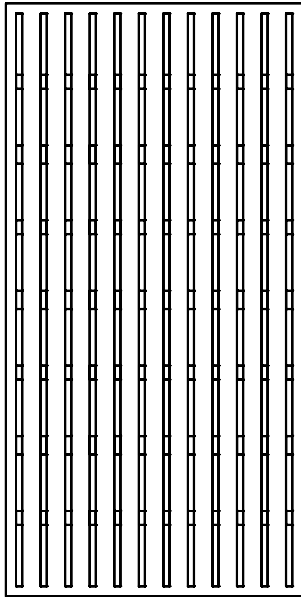
NOTE:

1. FINISHED RAIL HEIGHT (A) = 36"
2. PANEL LENGTH (B) = 71.5"
3. MAX PANEL SIZE = 71.5"X36" IRC
4. 3X6 DSP SIZE = 34" X 68"
5. 2X4 DSP SIZE = 23 7/8" X 47 7/8"

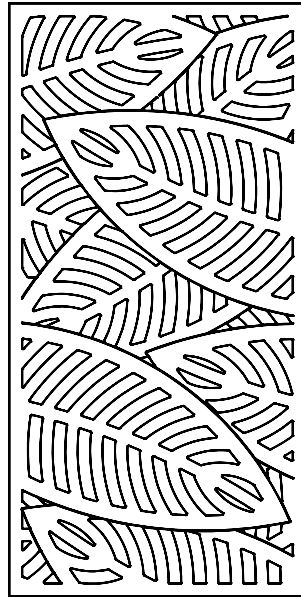
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Barrette OUTDOOR LIVING		
DRAWN: CH	DATE: 6/16/2021	APPROVED:
DESCRIPTION: RAILING WITH DSP INFILL - DETAILS		
SHEET 6 OF 18	REVISION	PART NUMBER
SCALE 1:20		N/A
WEIGHT: N/A		

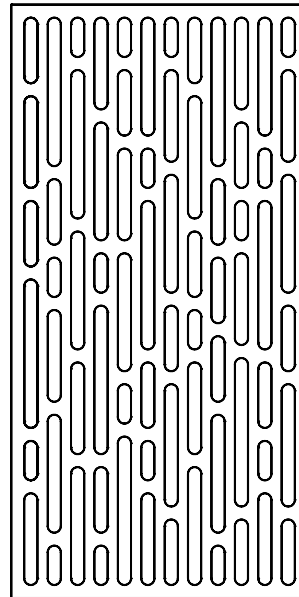
3X6 DSP SCREENS



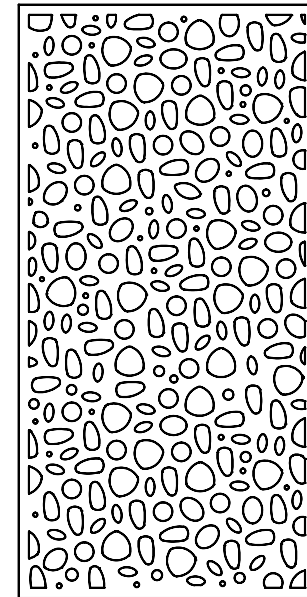
3X6 BOARDWALK



3X6 SANIBEL



3X6 OPTIC




3X6 RIVER ROCK

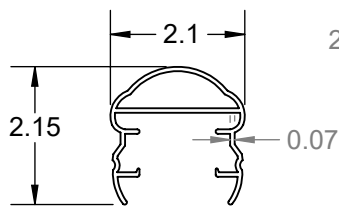
NOTE:

1. 3X6 DSP SIZE = 34" X 68"
2. THICKNESS = .3"

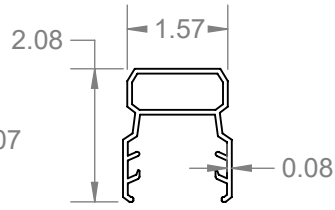
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<small>DRAWN:</small>	CH	<small>DATE:</small>	04/25/2022
<small>APPROVED:</small>			
DSP DETAIL			
<small>SHEET 7 OF 18</small>		<small>REVISION</small>	<small>PART NUMBER</small>
SCALE 1:22		0	N/A
WEIGHT: N/A			

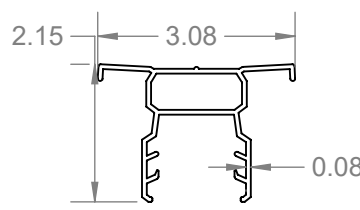
TOP AND BOTTOM RAIL



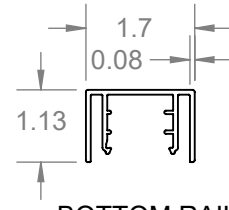
PELLINORE TOP RAIL



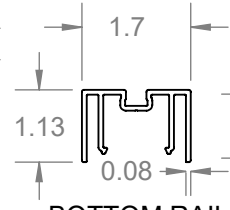
TRISTAN TOP RAIL



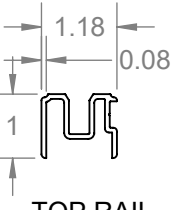
OBERON TOP RAIL
(SEE NOTE 1.)



BOTTOM RAIL



BOTTOM RAIL DSP PROFILE



TOP RAIL DSP INSERT

DSP VERTICAL PROFILES



"H" CONNECTOR

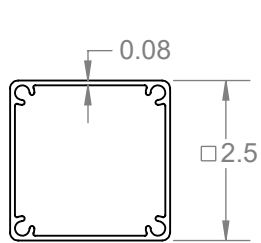


"U" END CHANNEL

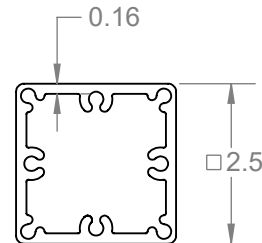
NOTE:

1. A DECK BOARD MUST BE USED WHEN INSTALLING OBERON.
2. BRACKET COVERS ARE INCLUDED WITH TOP RAIL.

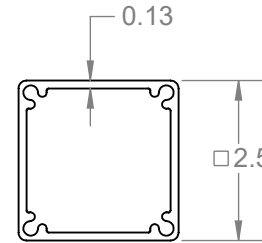
POSTS



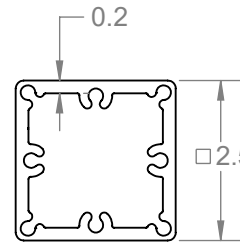
AVALON POST RESIDENTIAL/CABLE RAILING LINE POST-RESIDENTIAL



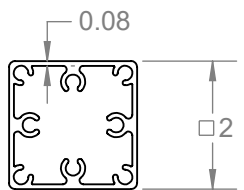
AVALON HD POST/CABLE RAILING LINE POST



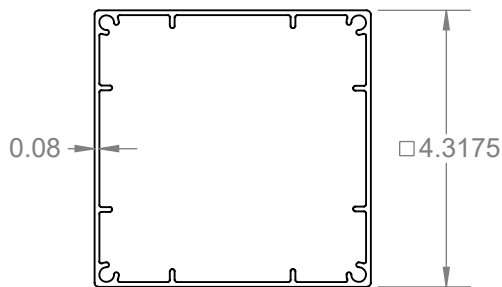
CORNER POST FOR CABLE RAILING



END POST FOR CABLE RAILING

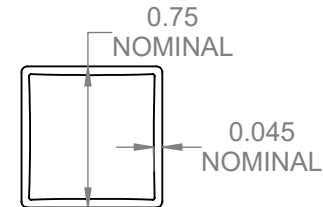


AVALON OTT POST

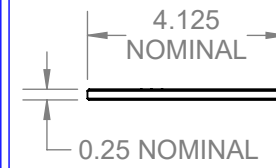


AVALON AR POST

BALUSTERS

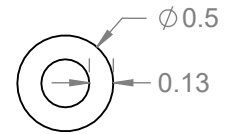


SQ. BALUSTER

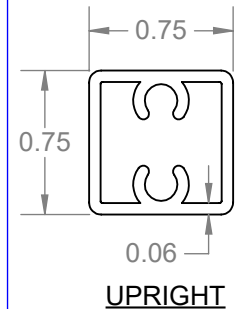


GLASS SLAT

HORIZONTAL ROD INFILL



ROUND ROD



UPRIGHT

1. AVALON POST RESIDENTIAL recommended for Residential applications (any width).
2. AVALON HD POST/CABLE RAILING LINE POST recommended for Commercial applications - not wider than 8ft.
3. END POST FOR CABLE RAILING recommended for cable railing applications - end post only.
4. CORNER POST FOR CABLE RAILING recommended for cable railing applications - corner post only.
5. AVL OTT POST recommended for Residential - 6ft wide applications and Commercial - 5ft applications.
6. AVL AR POST can be used on any Residential or Commercial applications.

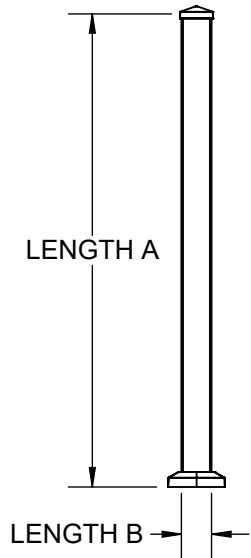
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DRAWN: CH	DATE: 1/22/2021	APPROVED:
DESCRIPTION: AVALON PROFILES		
SHEET 8 OF 18	REVISION	PART NUMBER
SCALE 1:3	0	N/A
WEIGHT: N/A		

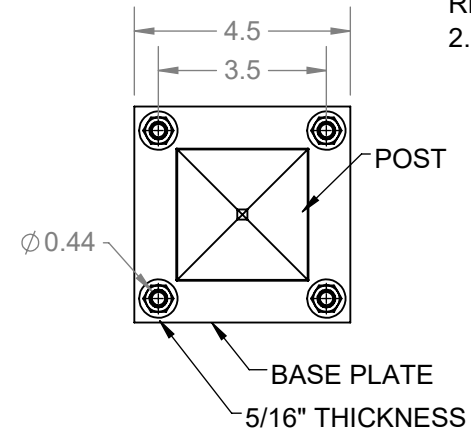
AVALON POST AND SURFACE MOUNT DETAILS

NOTE: IMAGES ONLY REFERENCE 2" AND 2.5" POSTS.



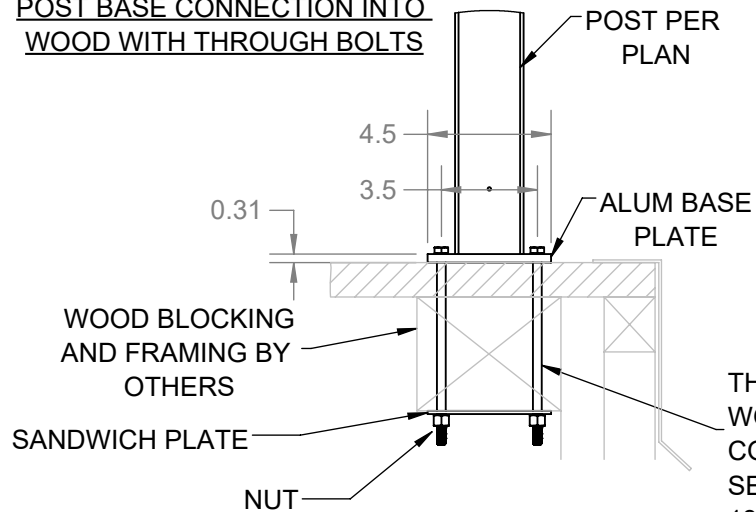
POSTS	LENGTH A	LENGTH B
STD. POST	39"	2.50"
STD. POST	45"	2.50"
STD. POST	60"	2.50"
HD. POST	45"	2.50"
HD. POST	60"	2.50"
OTP. POST	33"	2.00"
OTP. POST	39"	2.00"
AR. POST	39"	4.32"
AR. POST	45"	4.32"
AR. POST	108"	4.32"

NOTE:
 2.5" POSTS INCLUDE FACTORY MOUNTED BASE PLATE, TWO PICE TRIM, POST CAP, AND LEVELING SHIMS.
 4.3125" POST SOLD SEPARATELY AS COMPONENTS.



POST BASE CONNECTION INTO CONCRETE WITH WEDGE ANCHORS

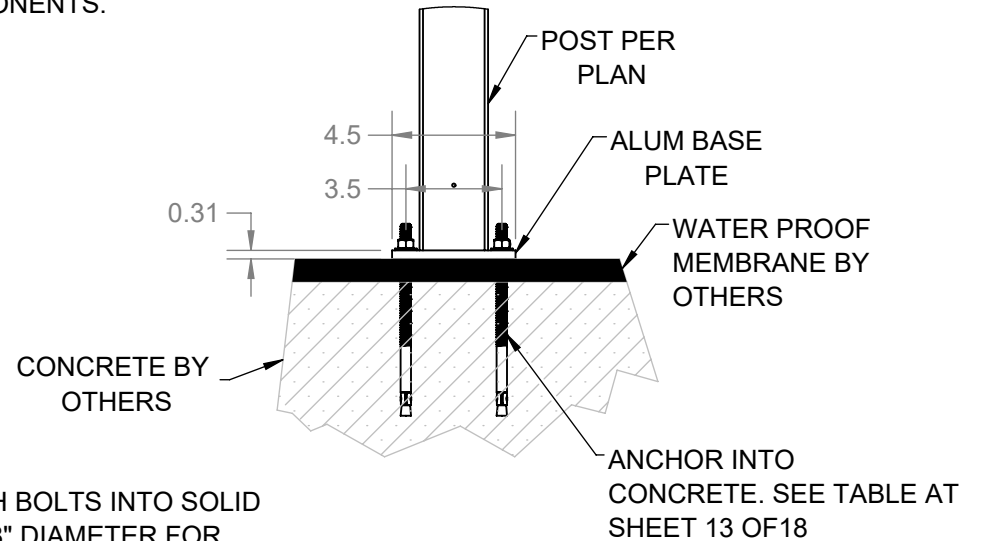
POST BASE CONNECTION INTO WOOD WITH THROUGH BOLTS



THROUGH BOLTS INTO SOLID WOOD 3/8" DIAMETER FOR COMMERCIAL APPLICATIONS SEE TABLE AT SHEET 13 OF 18

NOTE:

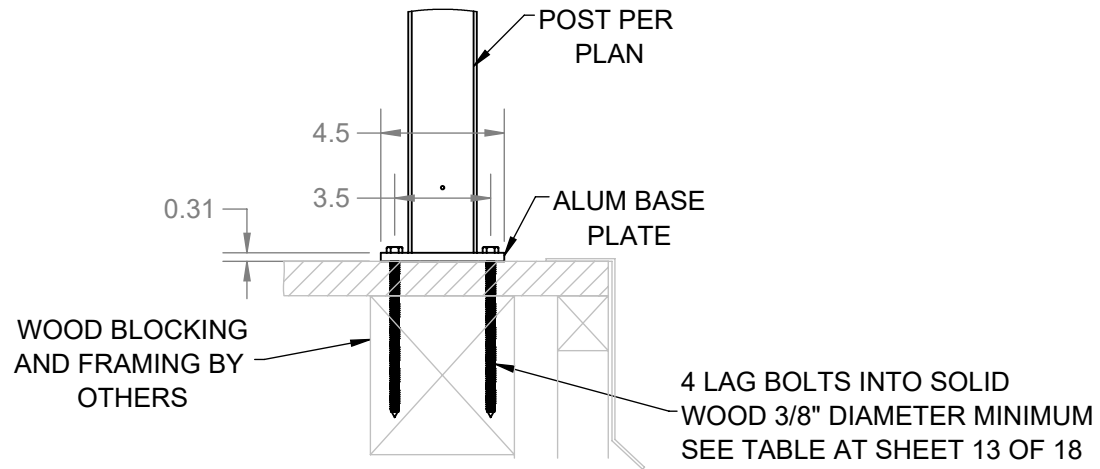
1. COMMERCIAL APPLICATIONS ARE ALWAYS BOLTED, USE 3/8" DIAMETER A307 THROUGH BOLTS INTO SOLID WOOD BLOCKING.
2. WOOD BLOCKING BY OTHERS.
3. BLOCKING MUST BE DESIGNED TO WITHSTAND PROPER LOADING.



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Barrette OUTDOOR LIVING!	
DRAWN: CH	DATE: 5/5/2020
DESCRIPTION: AVALON POST AND SURFACE MOUNT	
DETAIL	
SHEET 9 OF 18	REVISION / PART NUMBER
SCALE 1:16	0
WEIGHT: N/A	N/A

AVALON POST AND SURFACE MOUNT DETAILS



POST BASE CONNECTION INTO
WOOD WITH LAG BOLTS

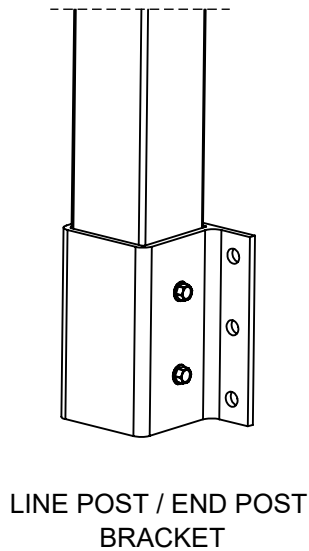
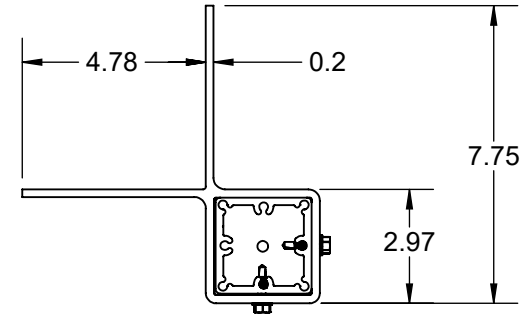
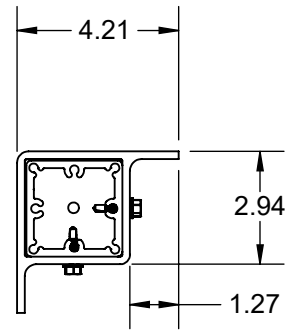
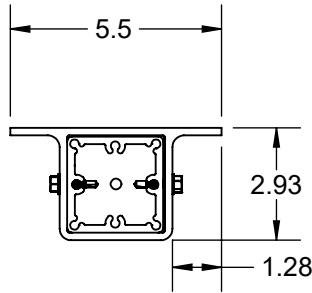
NOTE:

1. WOOD BLOCKING BY OTHERS.
2. BLOCKING MUST BE DESIGNED TO WITHSTAND PROPER LOADING.

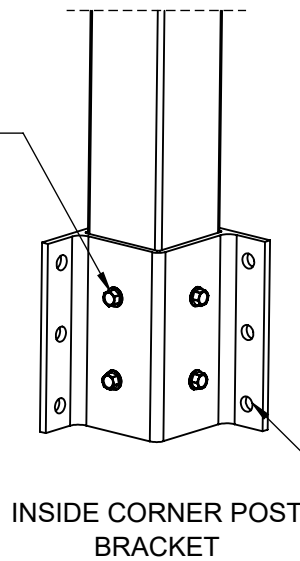
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Barrette OUTDOOR LIVING		
DRAWN: CH	DATE: 5/5/2020	APPROVED:
DESCRIPTION: AVALON POST AND SURFACE MOUNT		
DETAIL		
SHEET 10 OF 18	REVISION	PART NUMBER
SCALE 1:16		N/A
WEIGHT: N/A		

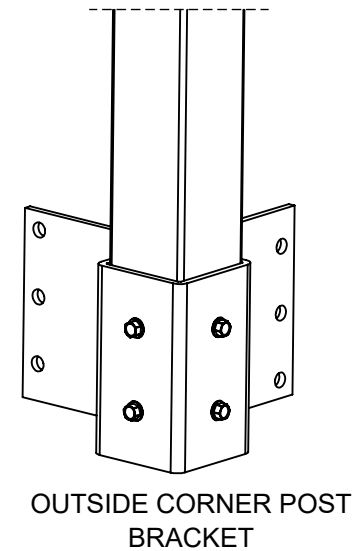
FASCIA MOUNT DETAILS



4X #14 SCREW



SEE TABLE AT
SHEET 13 OF 18
FOR ANCHOR
SCHEDULE



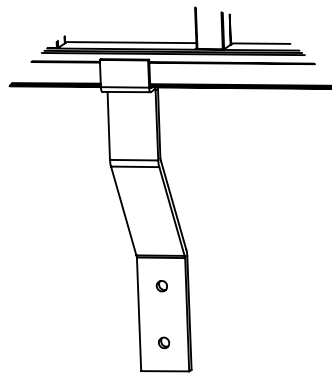
NOTES:

- 1) BRACKETS NOT INCLUDED WITH FASCIA, SOLD SEPARATELY.

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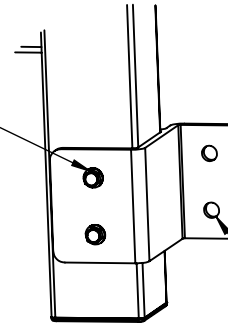
Barrette OUTDOOR LIVING		
DRAWN: CH	DATE: 3/16/2021	APPROVED:
DESCRIPTION: FASCIA MOUNT DETAIL		
SHEET 11 OF 18	REVISION	PART NUMBER
SCALE 1:5		N/A
WEIGHT: N/A		

FASCIA MOUNT - JULIET DETAIL



FASCIA MOUNT JULIET
SUPPORT FOOT

2X #14 SCREWS



FASCIA MOUNT
JULIET BRACKET

SEE TABLE AT
SHEET 13 OF 18
FOR ANCHOR
SCHEDULE

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Barrette OUTDOOR LIVING			
<small>DRAWN:</small> CH	<small>DATE:</small> 10/15/2021	<small>APPROVED:</small>	
<small>DESCRIPTION:</small> FASCIA MOUNT - JULIET DETAIL			
<small>SHEET 12 OF 18</small>	<small>REVISION</small>	<small>PART NUMBER</small>	
<small>SCALE 1:5</small>		N/A	
<small>WEIGHT: N/A</small>			

MOUNTING SCHEDULE

FOR RESIDENTIAL APPLICATIONS 36" HIGH					
PANEL WIDTH	LOAD	RECOMMENDED BOLT APPLICATION	FOR LAG BOLT APPLICATION 3/8" DIA. SCREW. MINIMUM EMBEDDED SCREW THREAD LENGTH REQUIRED	FOR THROUGH BOLT APPLICATION	FOR CONCRETE ANCHOR APPLICATION 3/8" TITAN HD ANCHOR MINIMUM REQUIRED LENGTH (MINIMUM DISTANCE OF 4" FORM EDGE REQUIRED)
8FT	200LBS	LAG BOLT -OR- THROUGH BOLT -OR- CONCRETE ANCHOR	3.5IN	3/8" HEX BOLT 3/8" FLAT WASHER 3/8" LOCK WASHER 3/8" NUT	4IN
6FT			3IN		3IN
4FT			2.5IN		3IN

FOR COMMERCIAL APPLICATIONS 42" HIGH					
PANEL WIDTH	LOAD	RECOMMENDED BOLT APPLICATION	FOR LAG BOLT APPLICATION 3/8" DIA. SCREW. MINIMUM EMBEDDED SCREW THREAD LENGTH REQUIRED	FOR THROUGH BOLT APPLICATION	FOR CONCRETE ANCHOR APPLICATION 3/8" TITAN HD ANCHOR MINIMUM REQUIRED LENGTH (MINIMUM DISTANCE OF 4" FORM EDGE REQUIRED)
8FT	400LBS	THROUGH BOLT -OR- CONCRETE ANCHOR	3.5IN	3/8" HEX BOLT 3/8" FLAT WASHER 3/8" LOCK WASHER 3/8" NUT	4IN
6FT	300LBS	LAG BOLT -OR- THROUGH BOLT -OR- CONCRETE ANCHOR	3IN		3IN
4FT	200LBS	LAG BOLT -OR- THROUGH BOLT -OR- CONCRETE ANCHOR	2.5IN		3IN



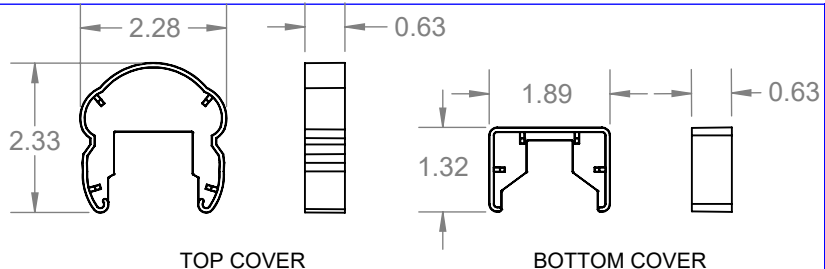
DRAWN: JS	DATE: 1/22/2021	APPROVED:
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MOUNTING SCHEDULE

SHEET 13 OF 18	REVISION	PART NUMBER
SCALE 1:16	0	N/A
WEIGHT: N/A		

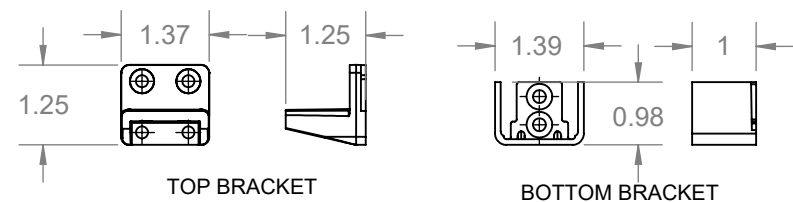
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BRACKETS & ACCESSORIES



TOP COVER

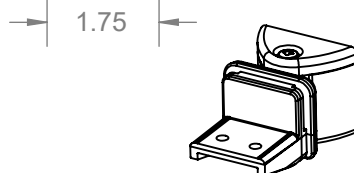
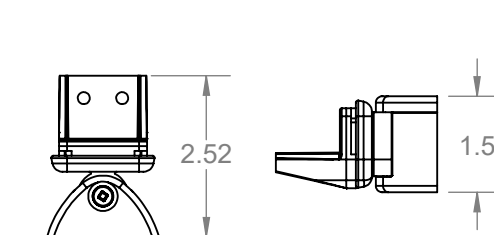
BOTTOM COVER



TOP BRACKET

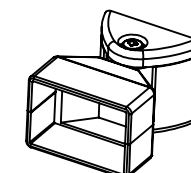
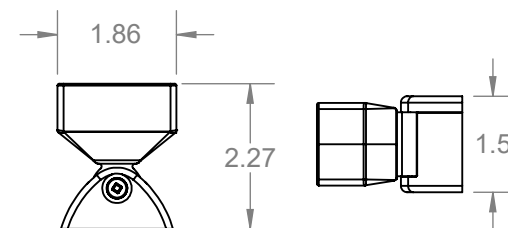
BOTTOM BRACKET

LEVEL BRACKET



TOP BRACKET

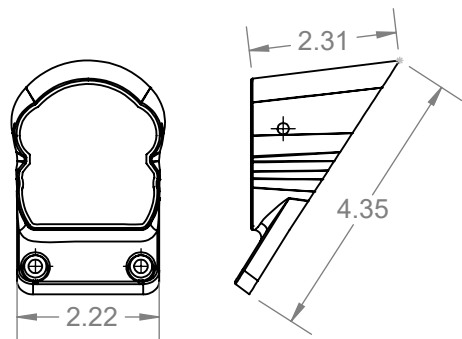
*TOP COVER IS THE SAME AS LEVEL BRACKET



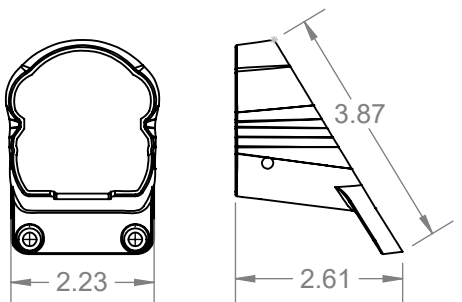
BOTTOM BRACKET

LEVEL ANGLE BRACKET

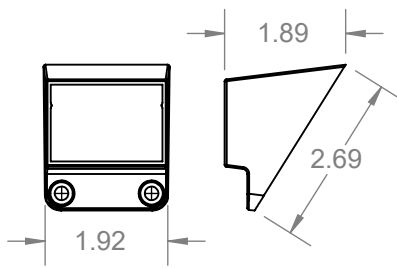
FIXED ANGLE STAIR BRACKET



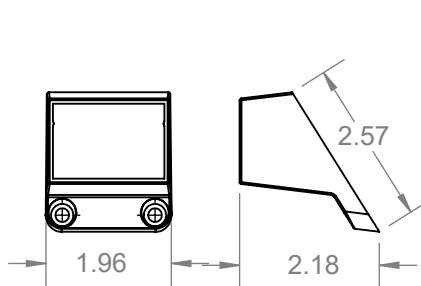
TOP STAIR TOP RAIL BRACKET



BOTTOM STAIR TOP RAIL BRACKET

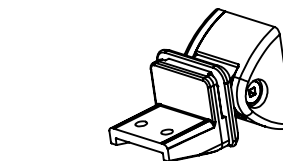
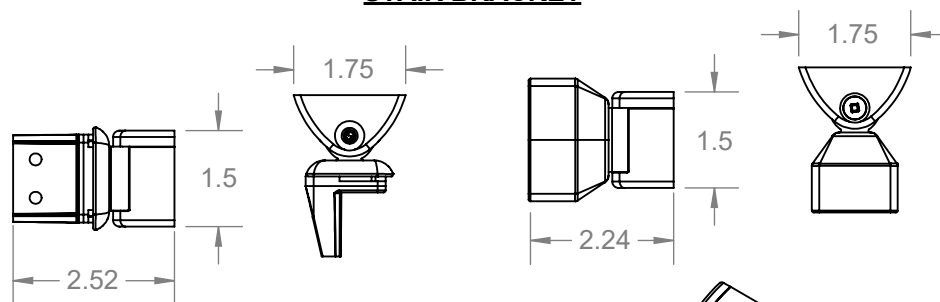


TOP STAIR BOTTOM RAIL BRACKET



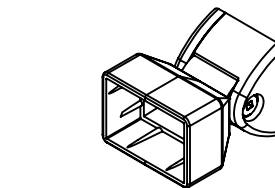
BOTTOM STAIR BOTTOM RAIL BRACKET

STAIR BRACKET



TOP BRACKET

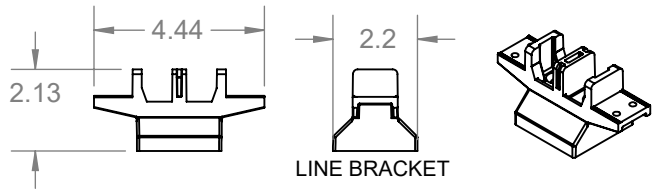
*TOP COVER IS THE SAME AS LEVEL BRACKET



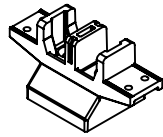
BOTTOM BRACKET

Barrette OUTDOOR LIVING		
DRAWN: CH	DATE: 6/16/2021	APPROVED:
DESCRIPTION: AVALON ACCESSORIES		
SHEET 14 OF 18	REVISION	PART NUMBER
SCALE 1:3	0	N/A
WEIGHT: N/A		

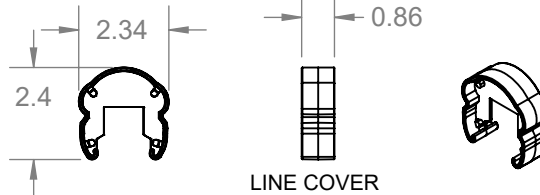
BRACKETS & ACCESSORIES



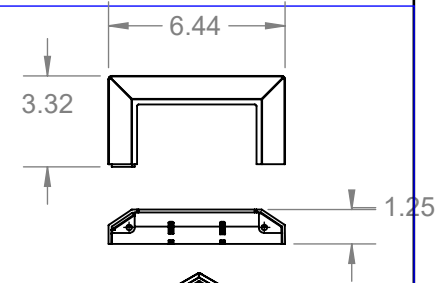
LINE BRACKET



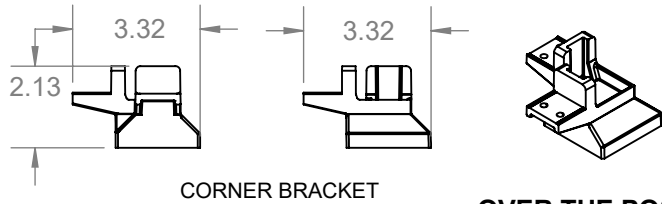
OVER THE POST LINE BRACKET



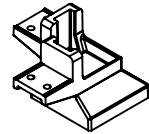
LINE COVER



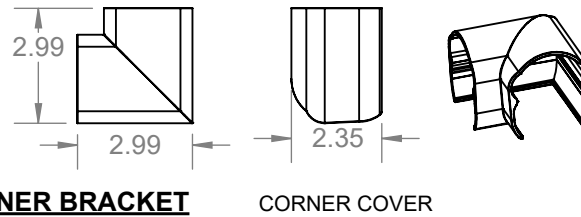
4.25" TRIM RING



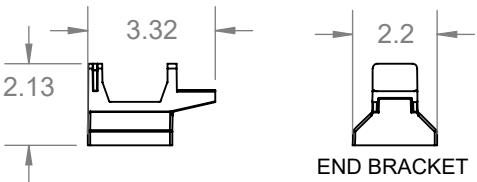
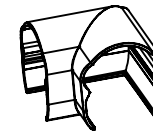
CORNER BRACKET



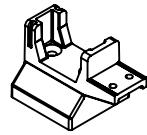
OVER THE POST CORNER BRACKET



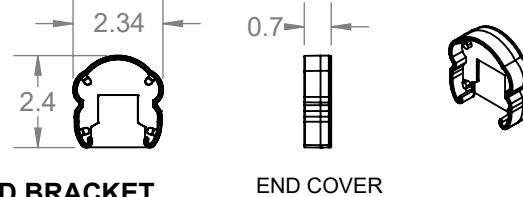
CORNER COVER



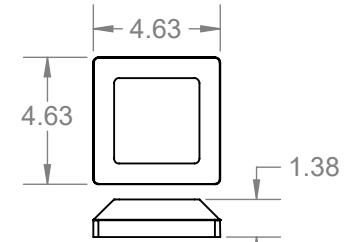
END BRACKET



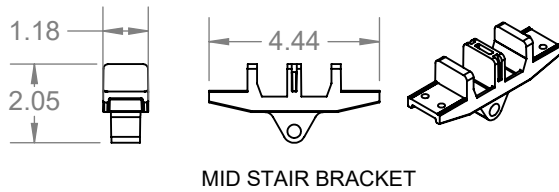
OVER THE POST END BRACKET



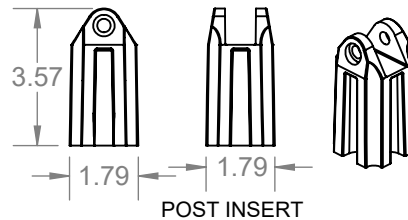
END COVER



4.25" FLAT POST CAP

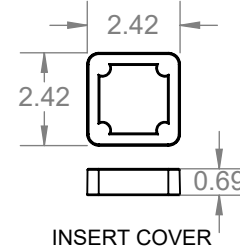


MID STAIR BRACKET



POST INSERT

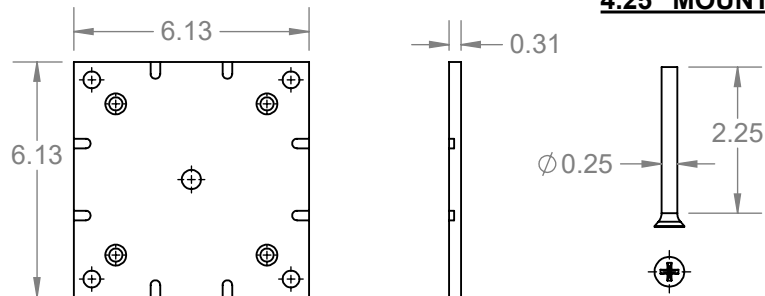
OVER THE POST MID STAIR BRACKET



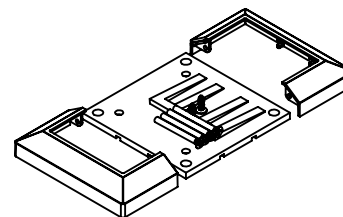
INSERT COVER

4.25" MOUNTING KIT

108" POST SLEEVE CAN BE USED AS A STRUCTURAL POST
(REQUIRES 2 MOUNTING KITS)



MOUNTING KIT COMES WITH TRIM RING



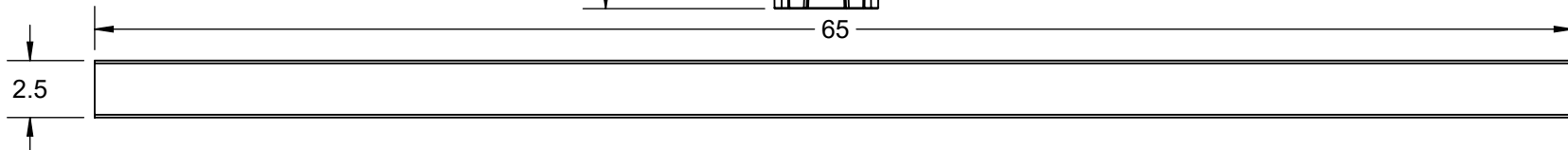
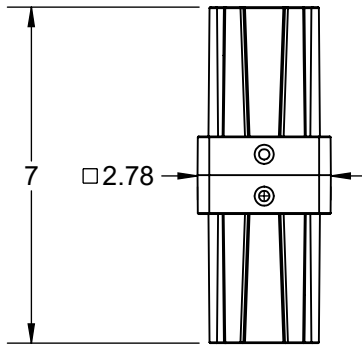
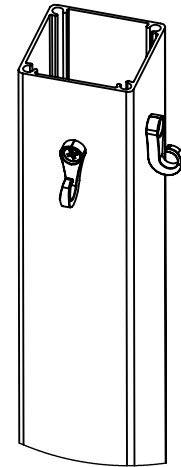
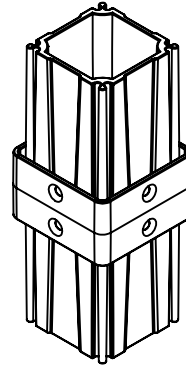
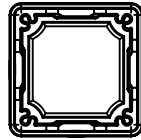
DRAWN:	CH	DATE:	6/16/2021	APPROVED:	
DESCRIPTION:					
AVALON ACCESSORIES					
SHEET 15 OF 18		REVISION		PART NUMBER	
SCALE 1:5		△		N/A	
WEIGHT: N/A					

ACCESSORIES

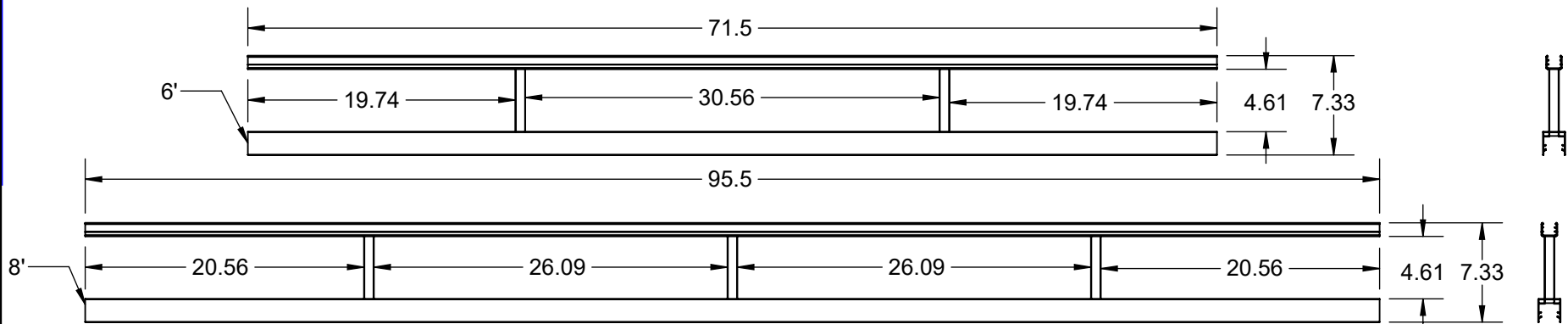
POST EXTENSION

NOTES:

- 1) POST EXTENSION COMES WITH SCREWS, (2) J-HOOKS AND A 65" POST. FOR HANGING LIGHTS HIGH ABOVE RAILING.



2 - TO - 3 RAIL ADAPTER

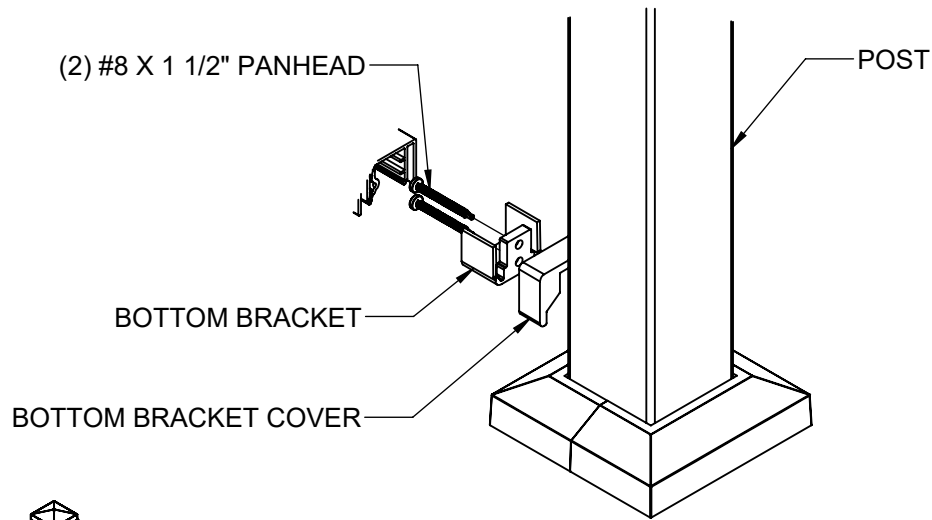


NOTES:

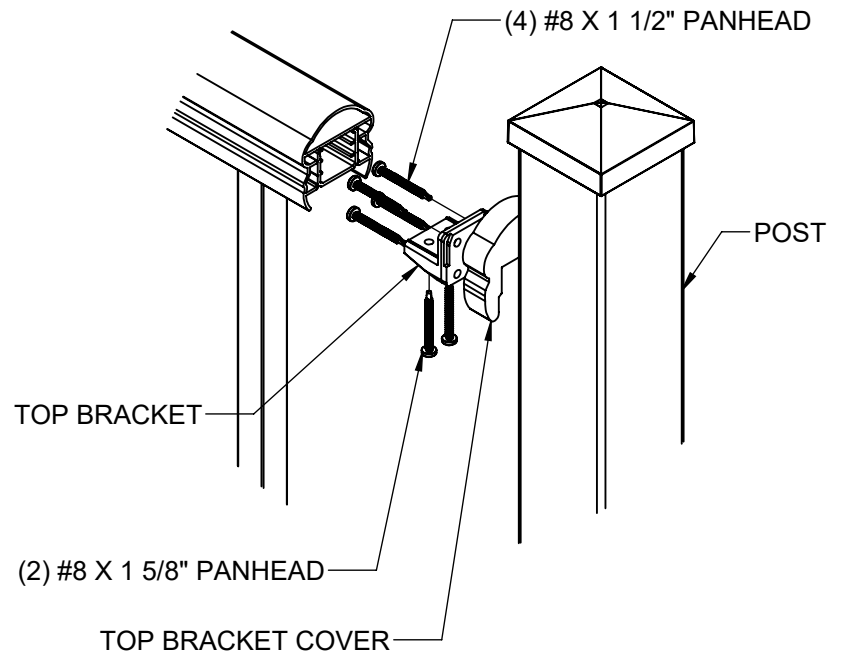
- 1) 2-3 RAIL ADAPTER FITS OVER SMALL AVALON TOP RAIL.
- 2) COMES WITH SCREWS AND TWO BRACKETS.
- 3) 6' AND 8' AVAILABLE



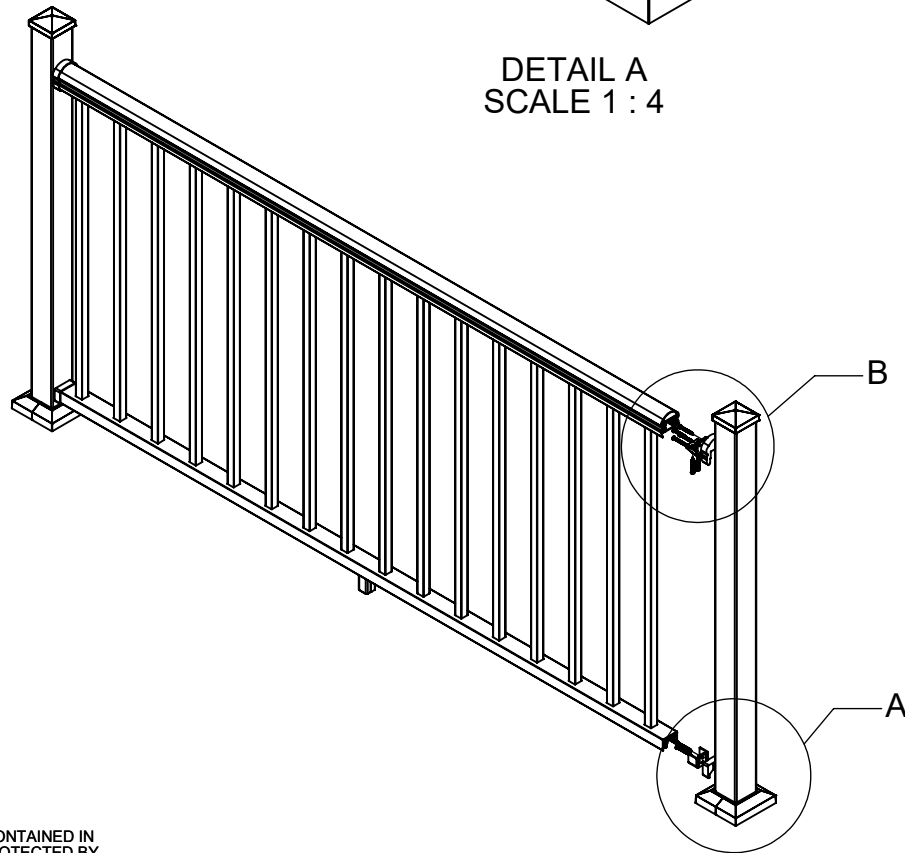
DRAWN:	CH	DATE:	11/22/2021	APPROVED:	
DESCRIPTION:					
AVALON ACCESSORIES					
SHEET 16 OF 18		REVISION		PART NUMBER	
SCALE 1:4		0		N/A	
WEIGHT: N/A					





DETAIL A
SCALE 1 : 4

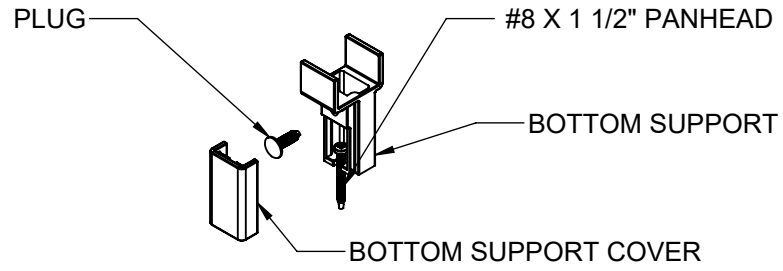


DETAIL B
SCALE 1 : 4

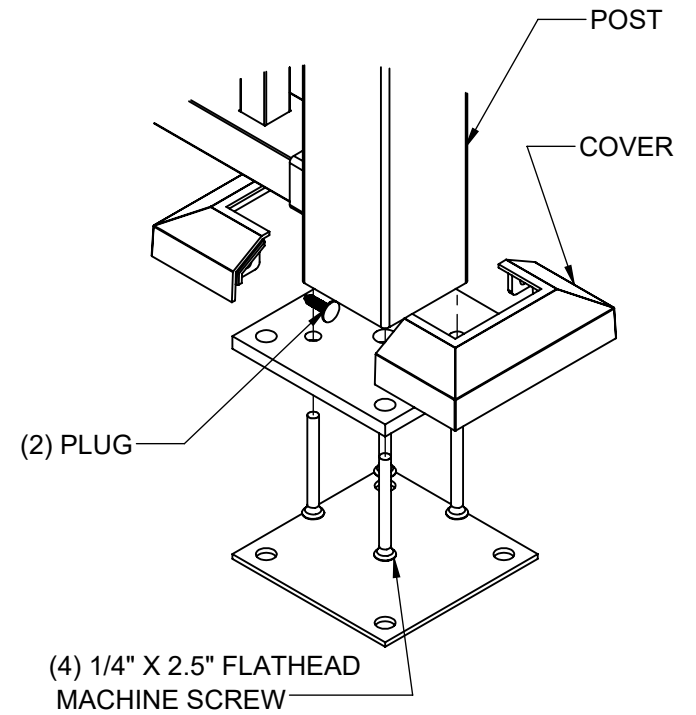


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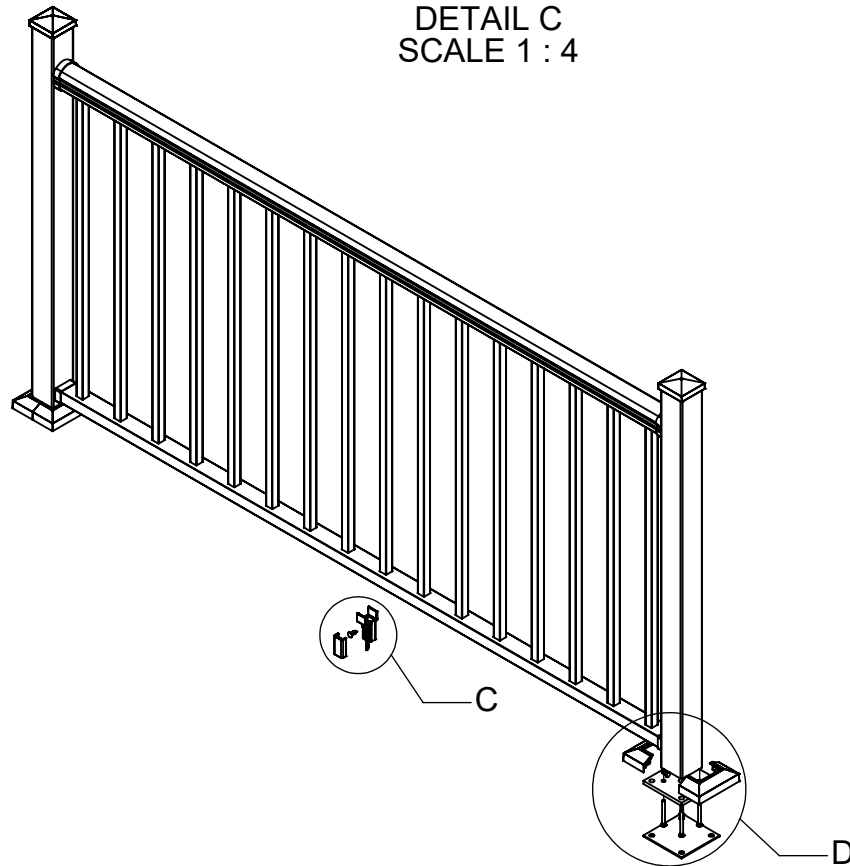
Barrette OUTDOOR LIVING 			
DRAWN:	CH	DATE:	6/16/2021
APPROVED:			
DESCRIPTION: AVALON FASTENER DETAIL			
SHEET 17 OF 18		REVISION	PART NUMBER
SCALE 1:16			N/A
WEIGHT: N/A			



DETAIL C
SCALE 1 : 4



DETAIL D
SCALE 1 : 4



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Barrette OUTDOOR LIVING		
DRAWN: CH	DATE: 6/16/2021	APPROVED:
DESCRIPTION: AVALON FASTENER DETAIL		
SHEET 18 OF 18	REVISION	PART NUMBER
SCALE 1:16	0	N/A
WEIGHT: N/A		