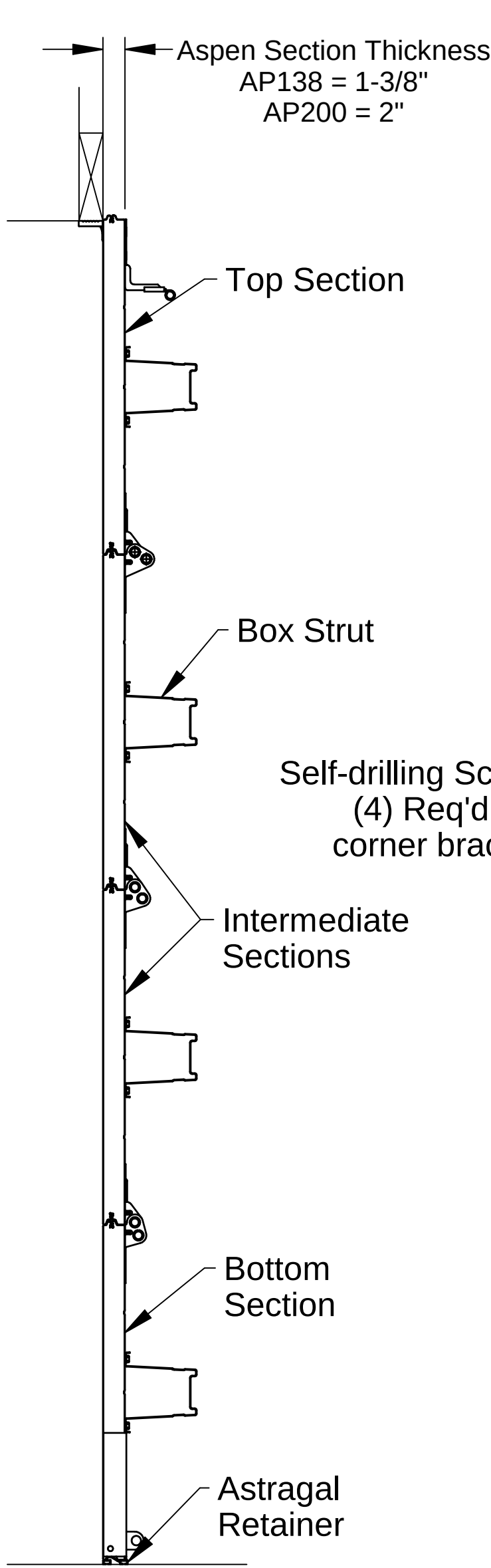
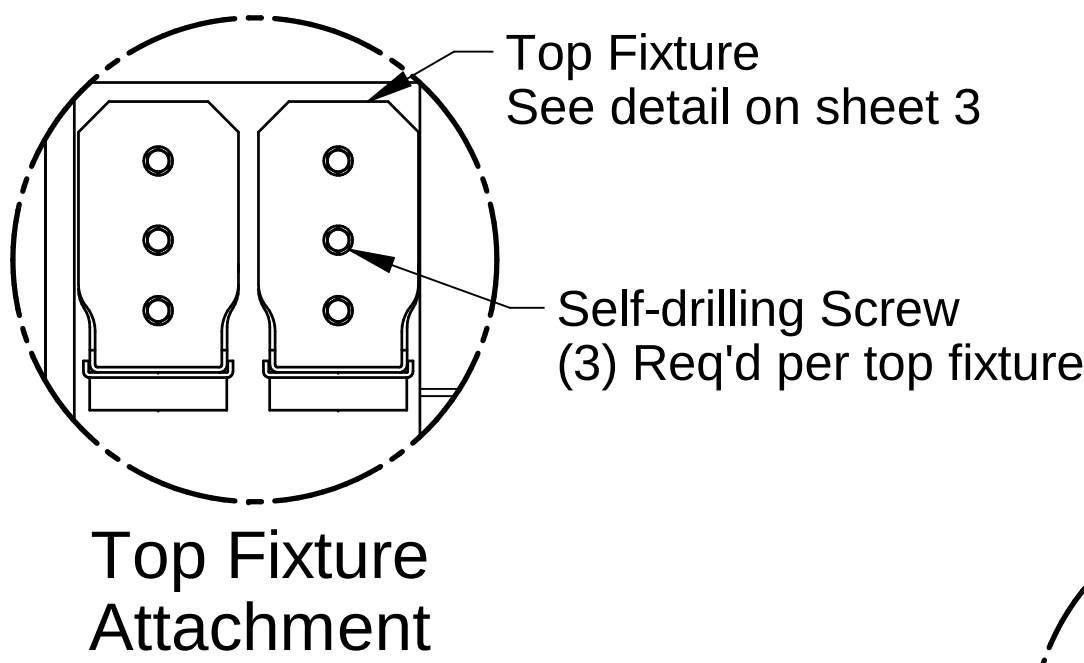
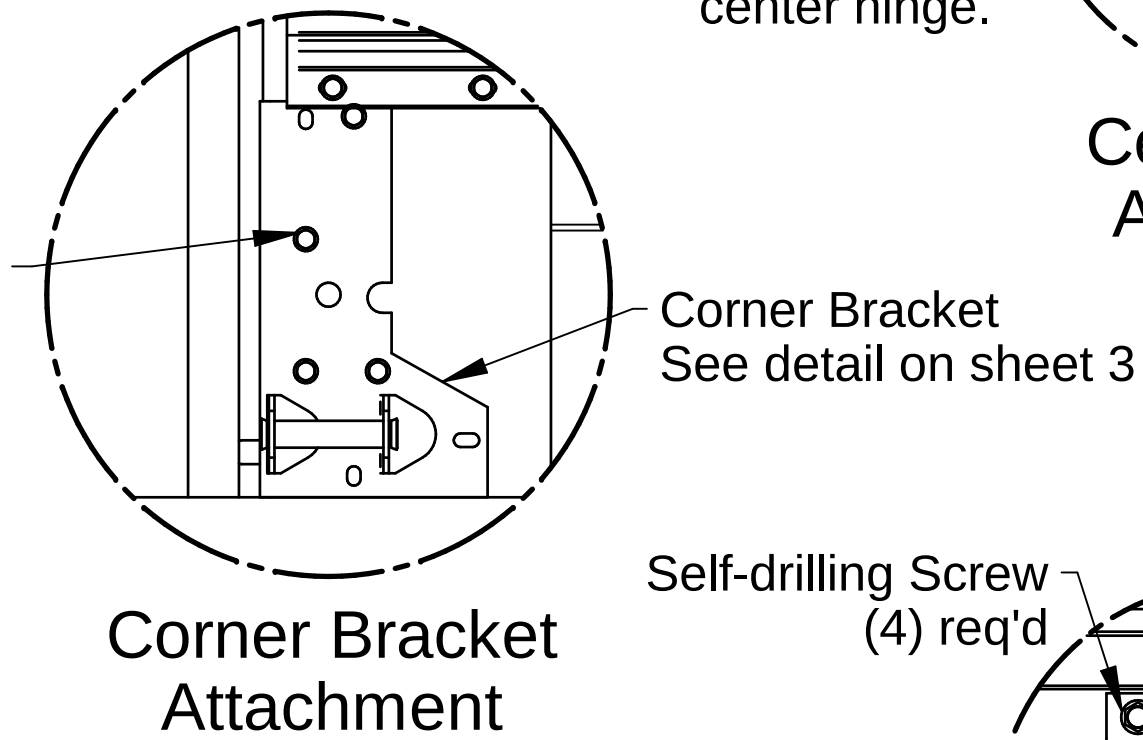




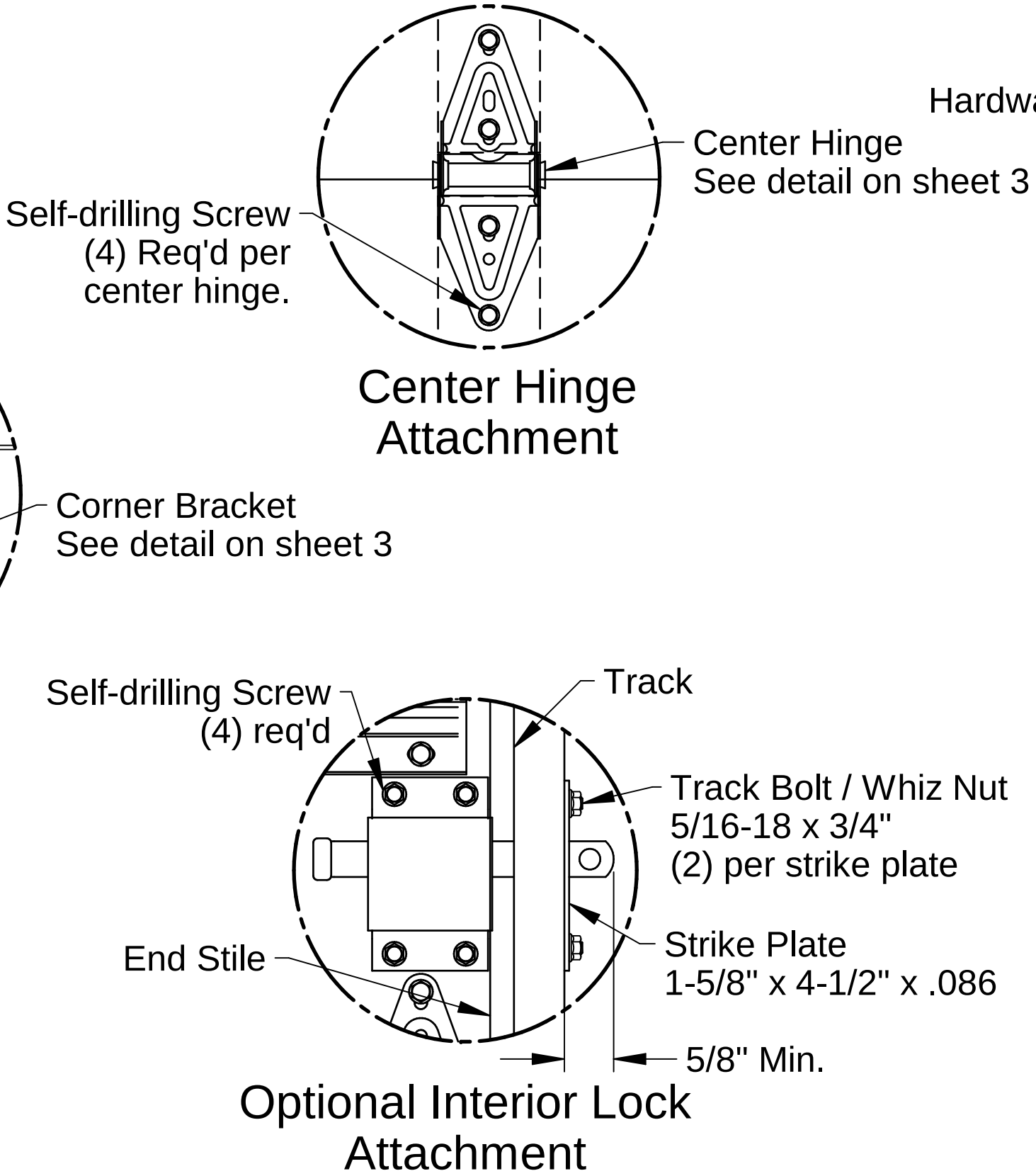
Section A-A



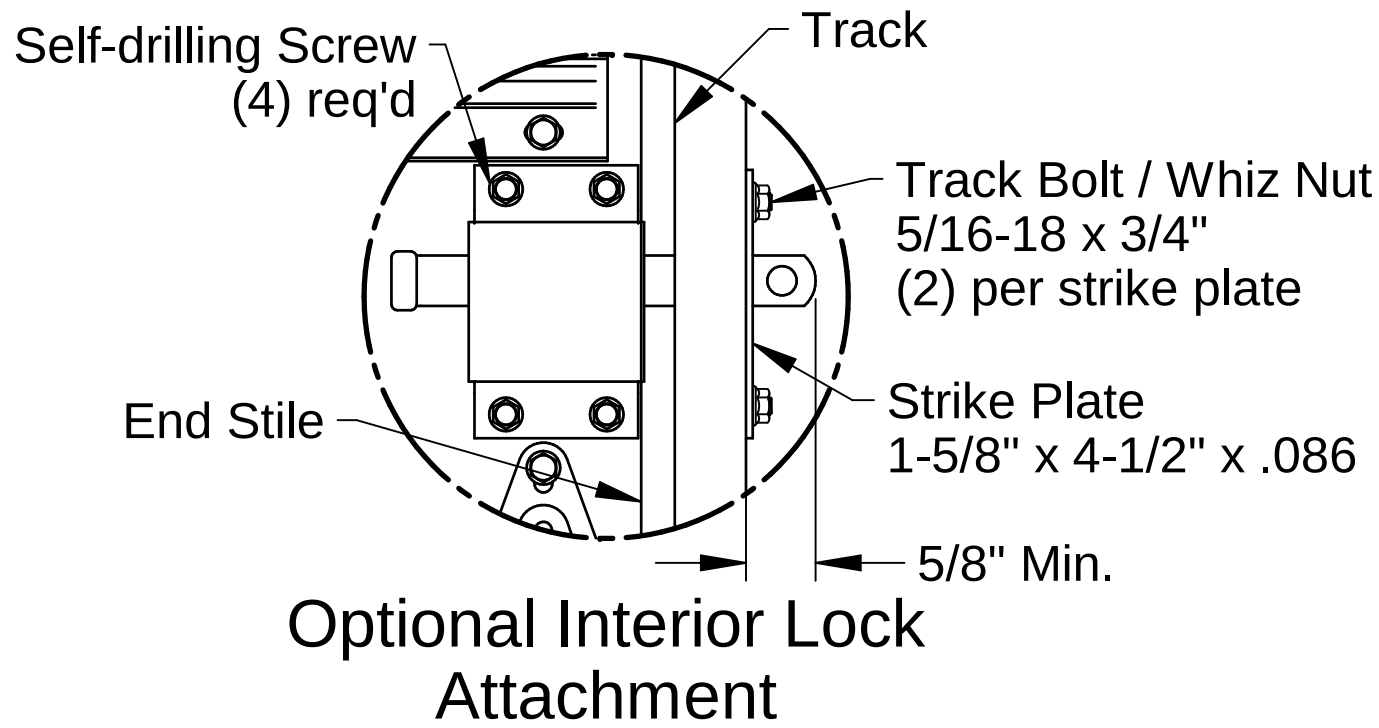
Top Fixture Attachment



Corner Bracket Attachment



Center Hinge Attachment



Optional Interior Lock Attachment

Interior Skin
.013 thick G-40 galvanized steel with an epoxy primer and baked on polyester finish which is roll-formed with wood grain texture.

Exterior Skin
.014 thick G-40 galvanized steel with an epoxy primer and baked on polyester finish which is roll-formed with wood grain texture.

Hardware Plate .036 thick

Box Strut See detail on sht. 3

Retaining Nut 7/16" push on retaining nut (1) req'd per roller. See detail on sht. 3

Insulation Core Polyurethane Foam

Perimeter Seal Nailed 8" O.C. with 4d steel nails

Jambs See sht. 2 for attachment

Hex Head Lag Screw (2) per bracket. See detail on sht. 3

Track Bracket shown See detail on sht. 3 Full Angle optional

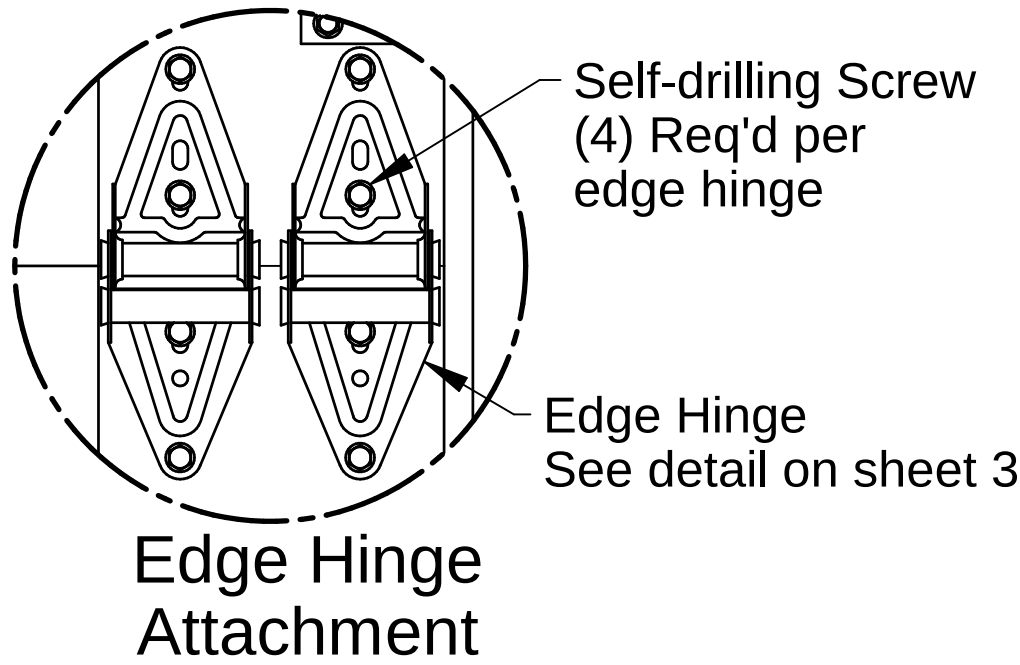
Track Bolt / Whiz Lock Nut See detail on sht. 3

End stile 16 Ga. Galv. Steel

Track Roller See detail on sht. 3

Track, 2" shown, 3" optional See detail on sht. 3

Section B-B



Edge Hinge Attachment

Spring Counterbalance Spring wire individually calculated to counterbalance door. Quantity and size of spring will vary based on door size.

Doors tested per ANSI/DASMA 108 for static air pressure											
AP138											
Max. Door Width	Ctr. Hngs. per Sect.	Colonial Design Loads			Ctr. Hngs. per Sect.	Ranch Design Loads			Ctr. Hngs. per Sect.	Carriage House Design Loads	
		21" Max Section Height	24" Max Section Height			21" Max Section Height	24" Max Section Height			21" Max Section Height	24" Max Section Height
8'-0"	1	74.5	-82.1	61.9 -69.8	1	74.5	-82.1	61.9 -69.8	1	74.5	-82.1 61.9 -69.8
9'-0"	1	66.3	-73.0	55.0 -62.0	1	66.3	-73.0	55.0 -62.0	1	66.3	-73.0 55.0 -62.0
10'-0"	2	59.2	-72.0	49.8 -56.3	1	59.2	-72.0	44.6 -50.2	1	59.2	-72.0 44.6 -50.2
12'-0"	2	49.3	-60.0	41.5 -46.9	2	49.3	-60.0	41.5 -46.9	2	49.3	-60.0 35.2 -39.2
14'-0"	4	42.2	-51.4	30.5 -34.5	2	42.2	-51.4	30.5 -34.5	2	42.2	-51.4 30.2 -33.6
16'-0"	3	37.0	-45.0	29.3 -32.6	3	37.0	-45.0	29.3 -32.6	3	37.0	-45.0 29.3 -32.6
18'-0"	3	37.1	-40.7	23.2 -25.8	3	37.1	-40.7	23.2 -25.8	3	37.1	-40.7 23.2 -25.8
20'-2"	5	33.4	-36.7	20.4 -22.7	4	33.4	-36.7	20.4 -22.7	3	33.4	-36.7 17.7 -19.7
AP200 / MAP200											
Max. Door Width	Ctr. Hngs. per Sect.	Colonial Design Loads			Ctr. Hngs. per Sect.	Ranch Design Loads			Ctr. Hngs. per Sect.	Carriage House Design Loads	
		21" Max Section Height	24" Max Section Height			21" Max Section Height	24" Max Section Height			21" Max Section Height	24" Max Section Height
8'-0"	1	82.5	-90.0	61.9 -69.8	1	82.5	-90.0	61.9 -69.8	1	82.5	-90.0 61.9 -69.8
9'-0"	1	73.3	-80.0	55.0 -62.0	1	73.3	-80.0	55.0 -62.0	1	73.3	-80.0 55.0 -62.0
10'-0"	2	72.0	-83.2	49.8 -56.3	1	72.0	-83.2	44.6 -50.2	1	72.0	-83.2 44.6 -50.2
12'-0"	2	60.0	-69.3	41.5 -46.9	2	60.0	-69.3	41.5 -46.9	2	60.0	-69.3 35.2 -39.2
14'-0"	4	51.4	-59.4	30.5 -34.5	2	51.4	-59.4	30.5 -34.5	2	51.4	-59.4 30.2 -33.6
16'-0"	3	45.0	-52.0	29.3 -32.6	3	45.0	-52.0	29.3 -32.6	3	45.0	-52.0 29.3 -32.6
18'-0"	3	37.1	-40.7	23.2 -25.8	3	37.1	-40.7	23.2 -25.8	3	37.1	-40.7 23.2 -25.8
20'-2"	5	33.4	-36.7	20.4 -22.7	4	33.4	-36.7	20.4 -22.7	3	33.4	-36.7 17.7 -19.7

Door Height

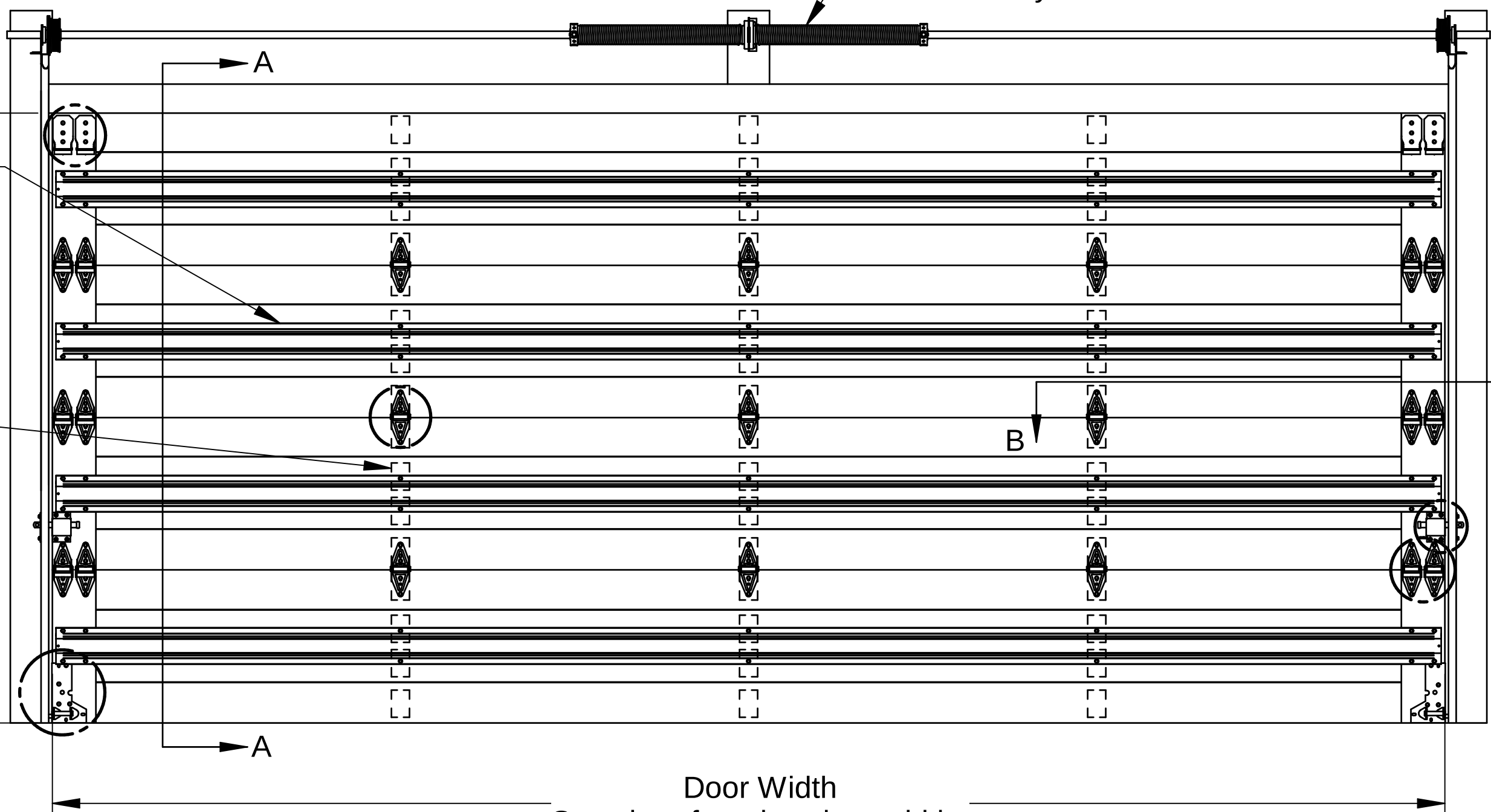
7'- 0" High shown
Other door heights available up to 10'-0" using 18", 21" or 24" high sections

Steel Reinforcement (1) Box strut per section fastened to all center and end stiles using (2) self-drilling screws at each stile.

Embedded Hardware Plates

Locks required on doors not electrically operated.

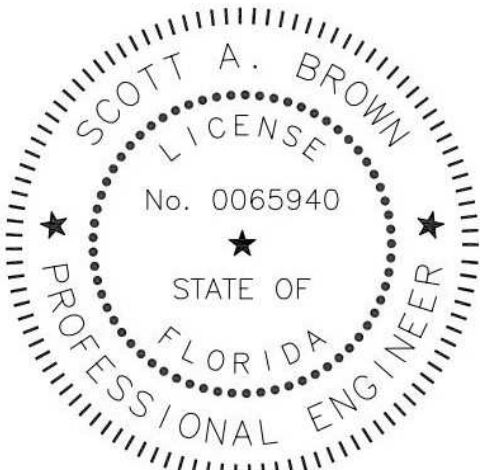
Vents (Optional)
Vent openings may be located in bottom section as allowed by local code



Door Width
See chart for other door widths (16'-0" Ranch shown)

Interior Elevation

FL#21471

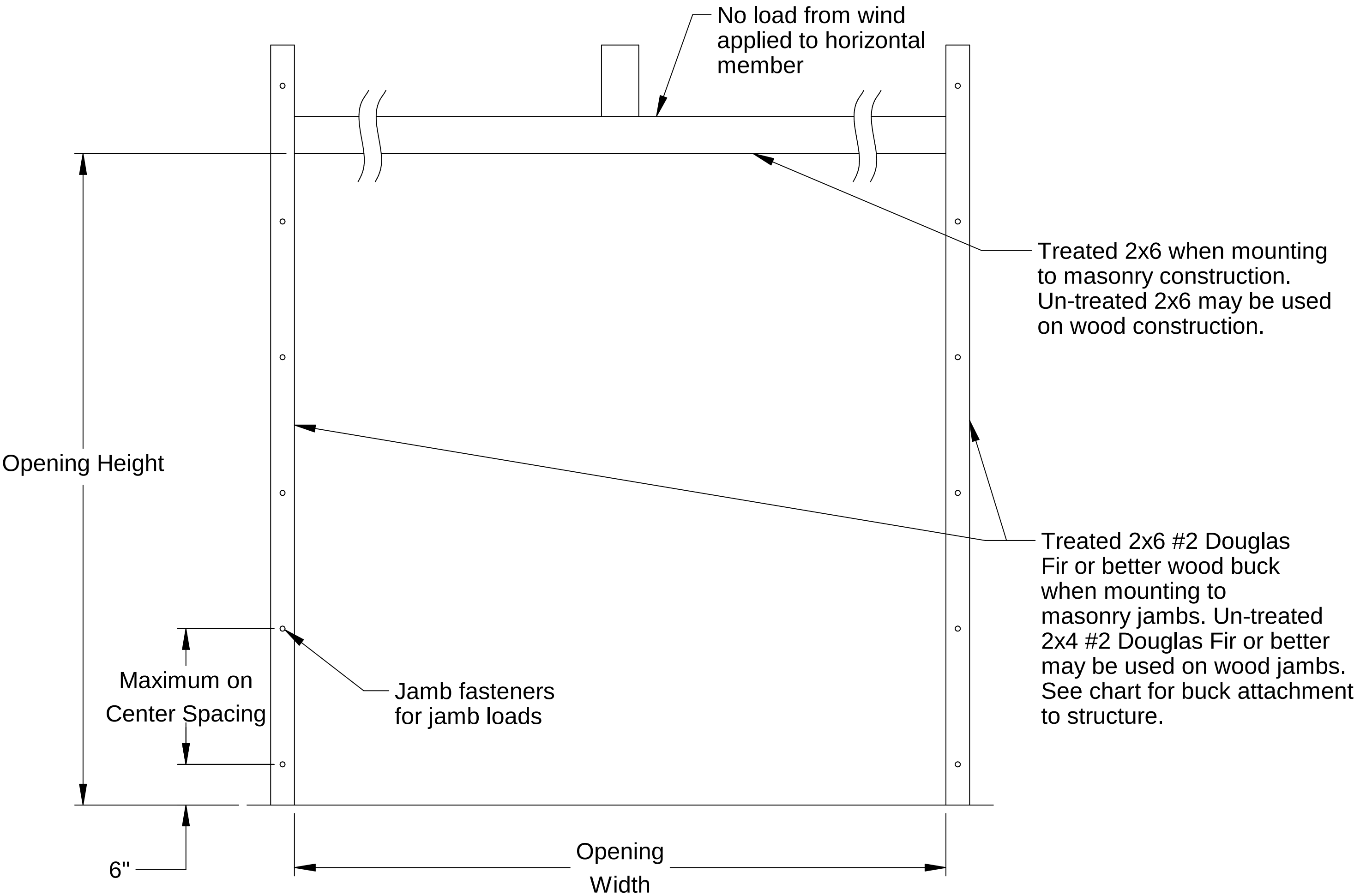
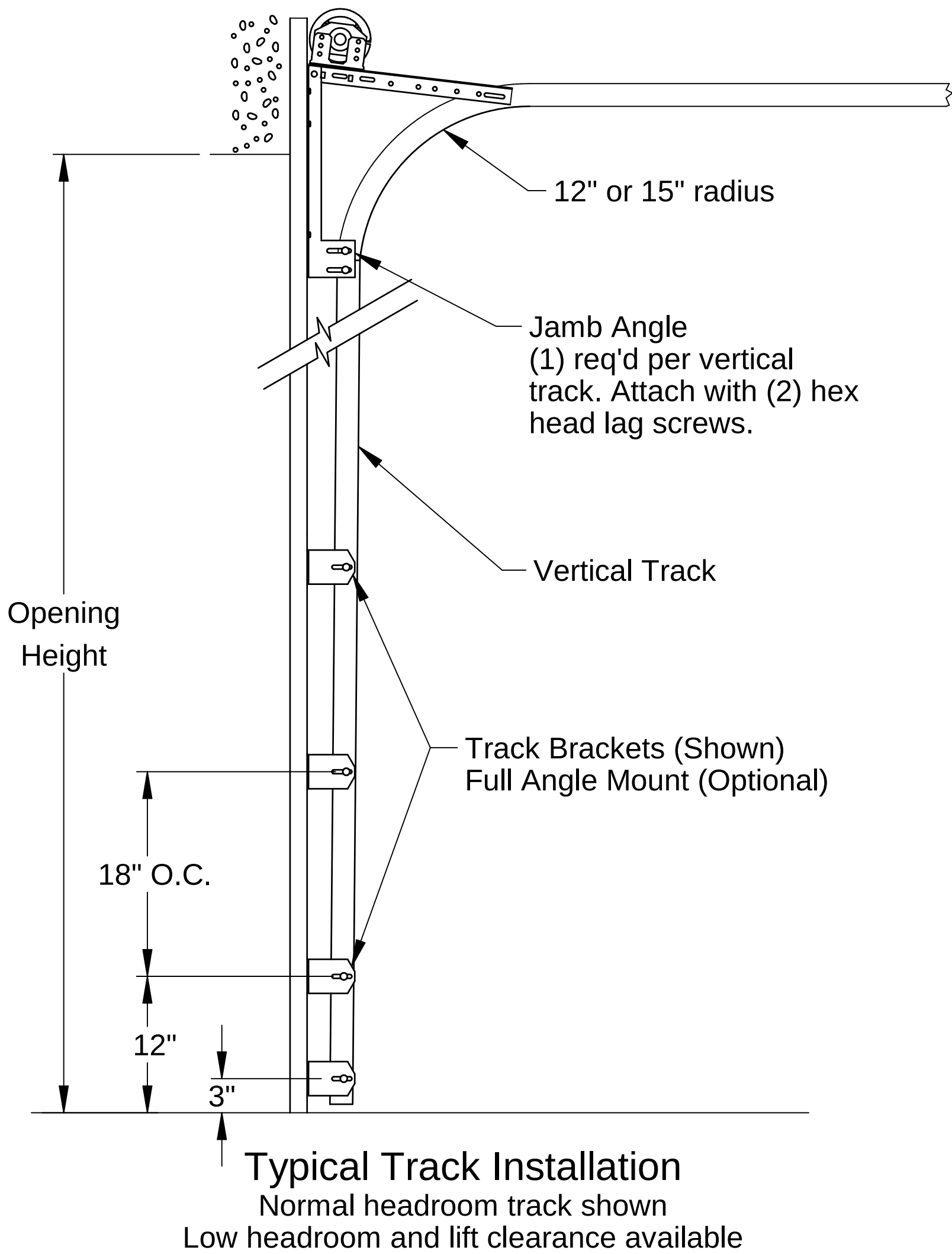


Scott A. Brown, P.E. Lic. No. 65940
Willett, Hofmann & Associates, Inc.
809 E. 2nd Street, Dixon, IL 61021
FBPE CA Lic. No. 35415
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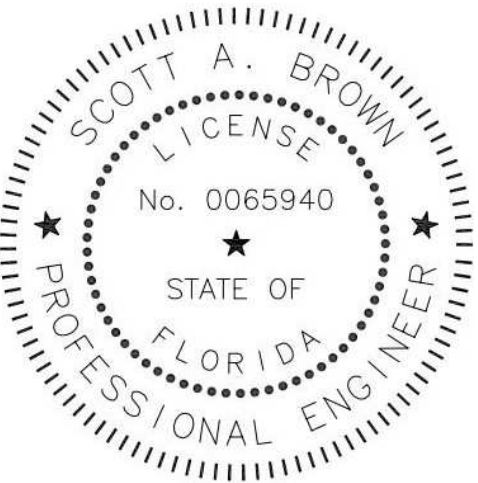
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C	Added 24" section heights, removed AP138C/AP200C and updated drawing layout.	8399.01	05/18/21	Checked by: G. Wedekind				
B	Updated pressure chart.	7512.04	10/09/17	Date: 02/07/17				
Rev.	Description	ECO	Date	ECO: 7512.02		No. P-2342	Sheet 1 of 3	Rev D



Jamb Attachment Notes:

1. Maximum Positive Load per Jamb = (16'-0" x 45.0 PSF) / 2 = 360 lbs. per foot.
2. Maximum Negative Load per Jamb = (16'-0" x -52.0 PSF) / 2 = 416 lbs. per foot.
3. Design of the supporting structure shall be the sole responsibility of the building designer and shall be designed for the jamb loads listed in notes 1 and 2.
4. Alternate jamb attachments may be used if approved by a registered Professional Engineer.
5. DASMA Technical Data Sheet TDS-161 may be used for alternate jamb attachments.
6. 3/8" diameter lag screws required 1/16" pilot hole and 1-1/2" minimum required distance.

2x6 Attachment to Structure						
Structure Type	Fastener Type	Minimum Embedment	Minimum Edge Distance	Minimum on Center Spacing	Maximum on Center Spacing	Allowable Tension Load
2500 PSI Min. Concrete	1/4" Tapcon+ (Plus) with 1-1/8" OD Washer	2"	2.5	6"	17"	526
Southern Pine	3/8" x 3" Lag with 1-1/8" OD Washer	1.50"	1.50"	1.50"	21"	655
Spruce Pine Fir	3/8" x 3" LAG with 1-1/8" OD Washer	1.50"	1.50"	1.50"	16"	482



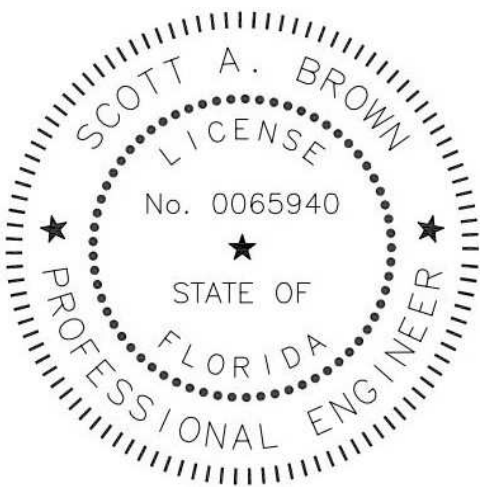
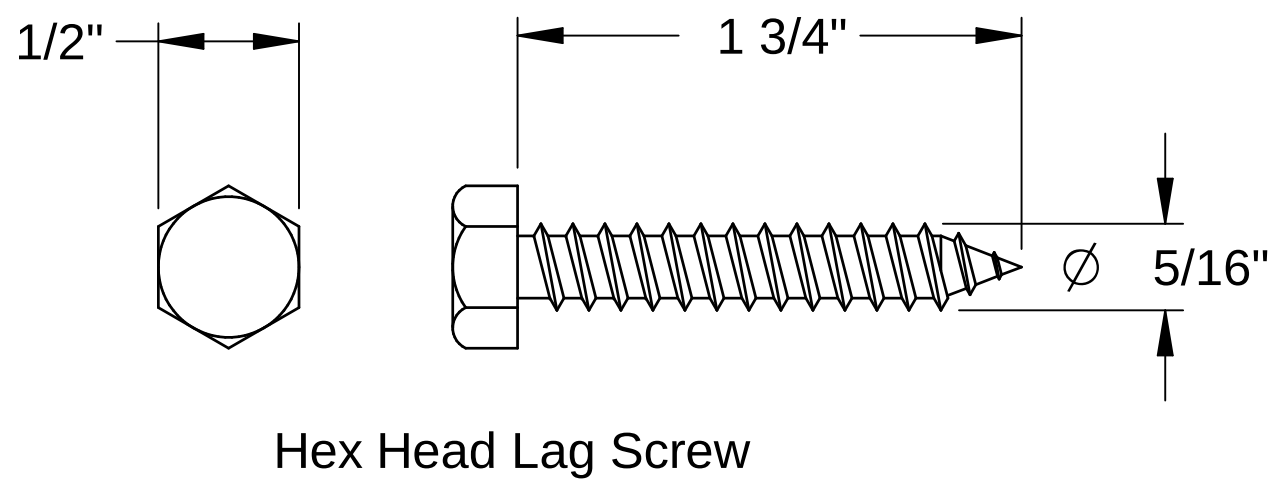
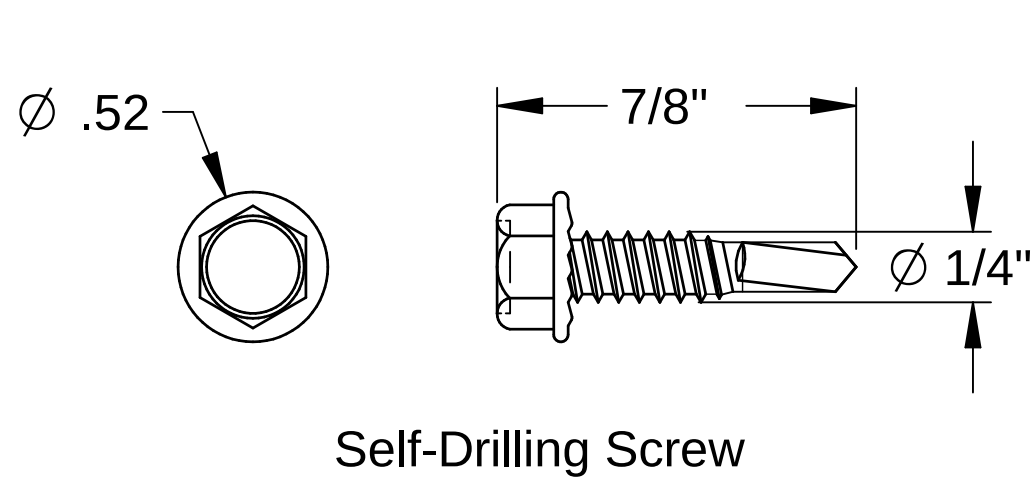
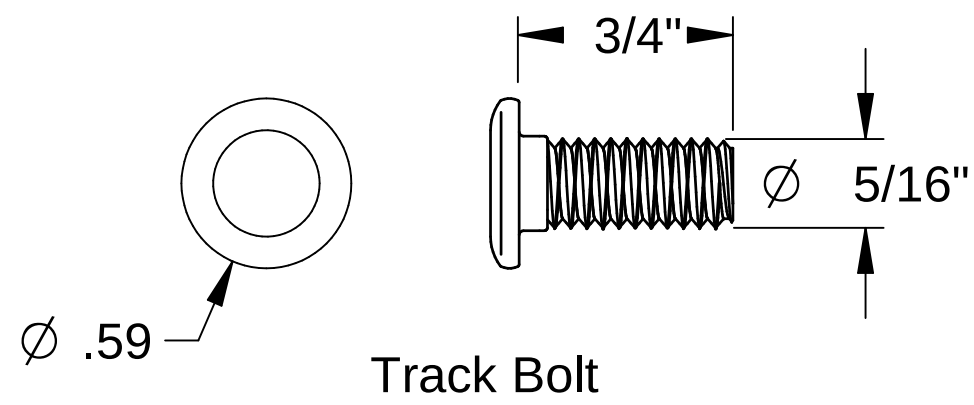
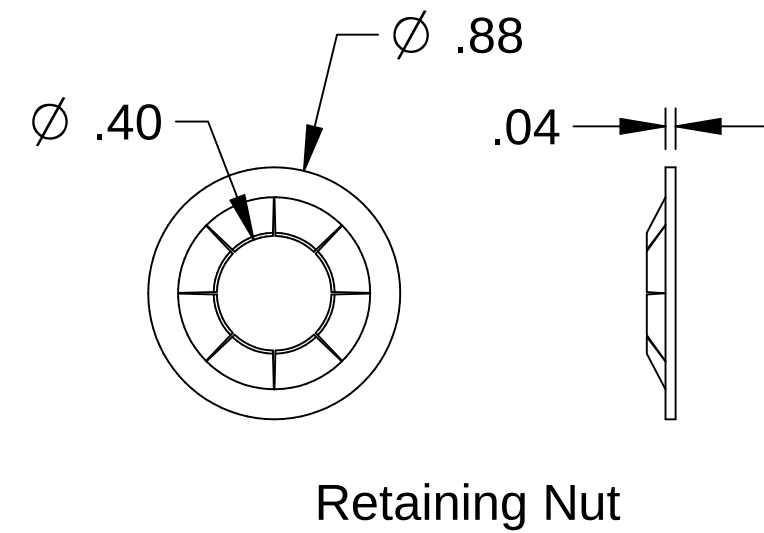
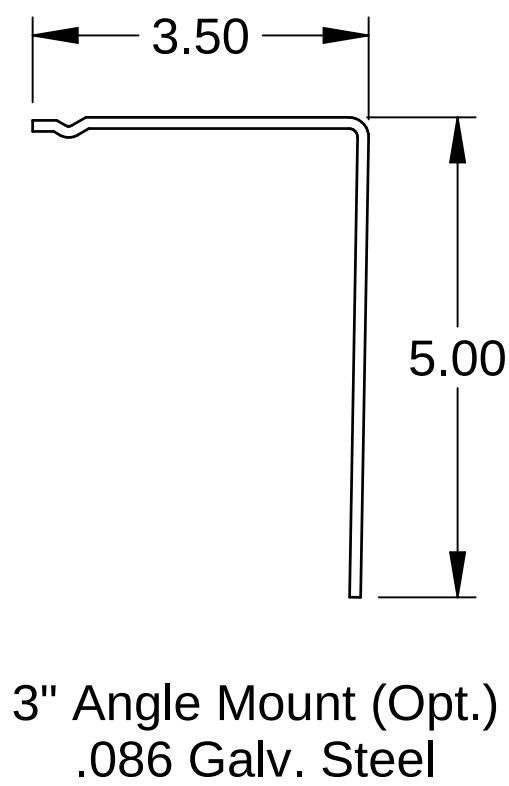
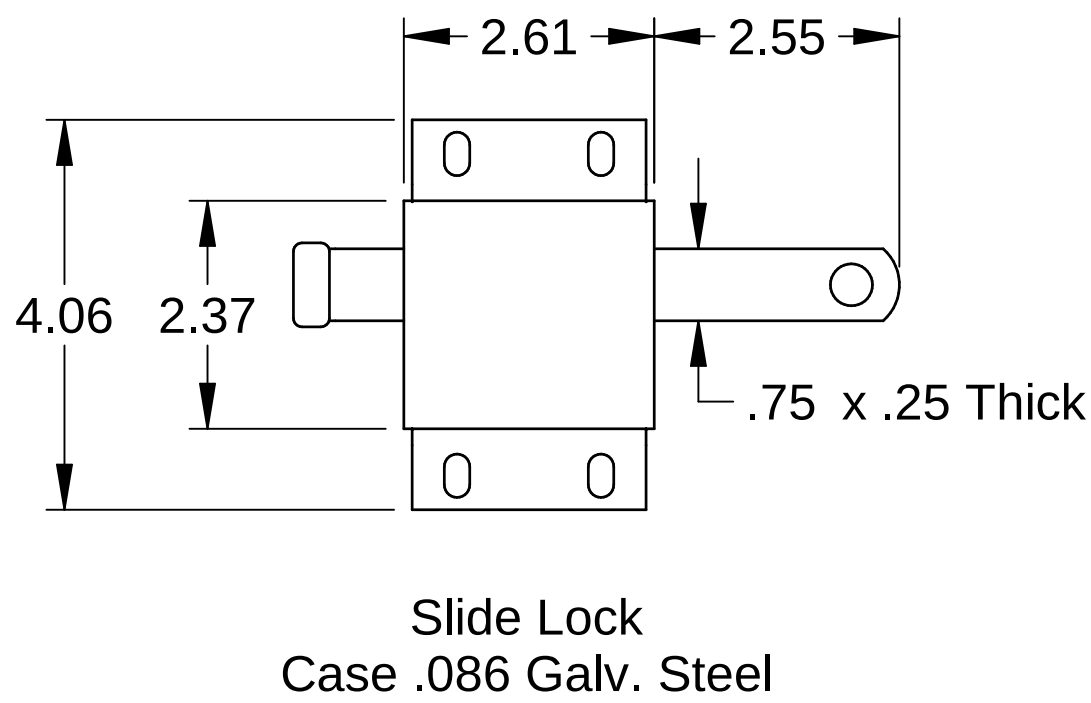
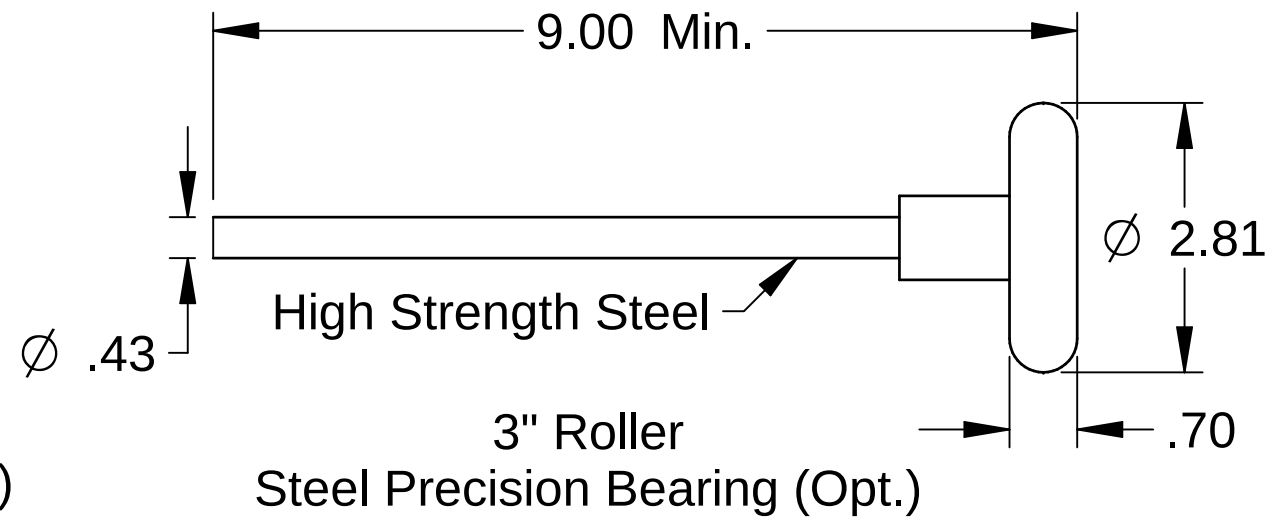
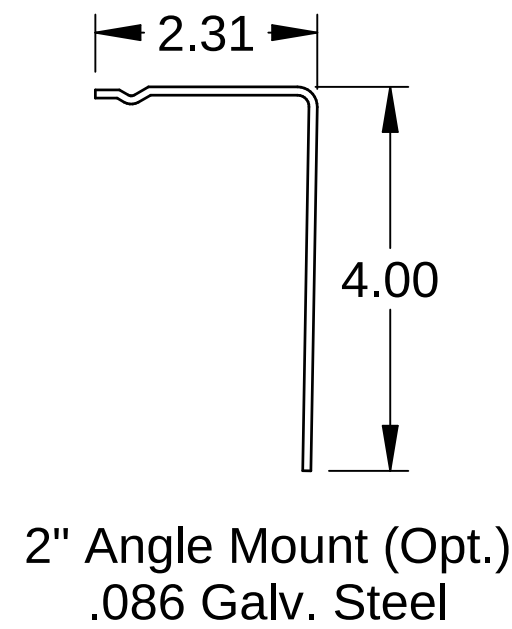
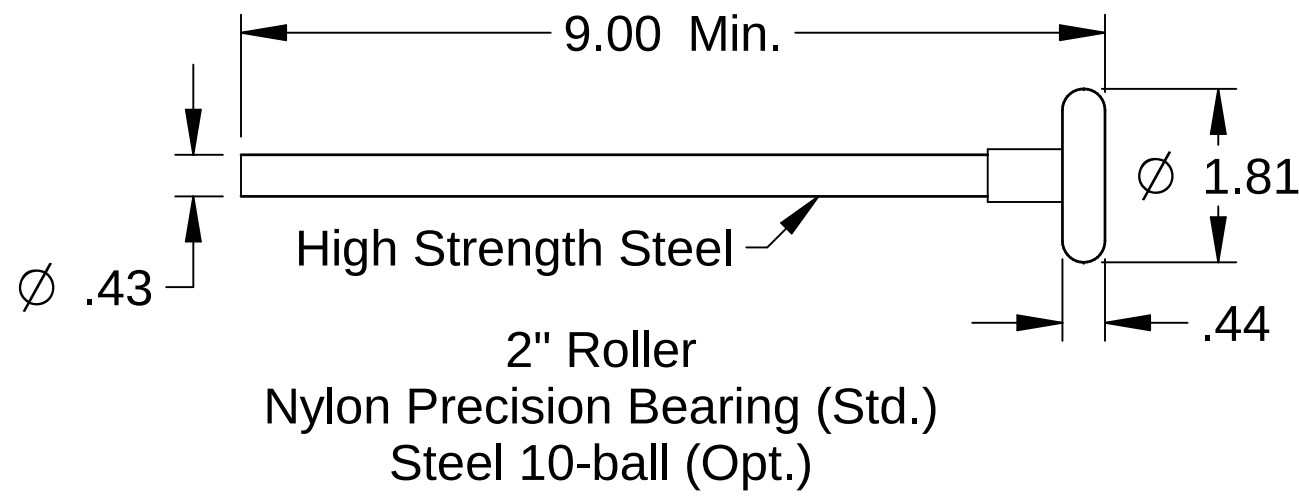
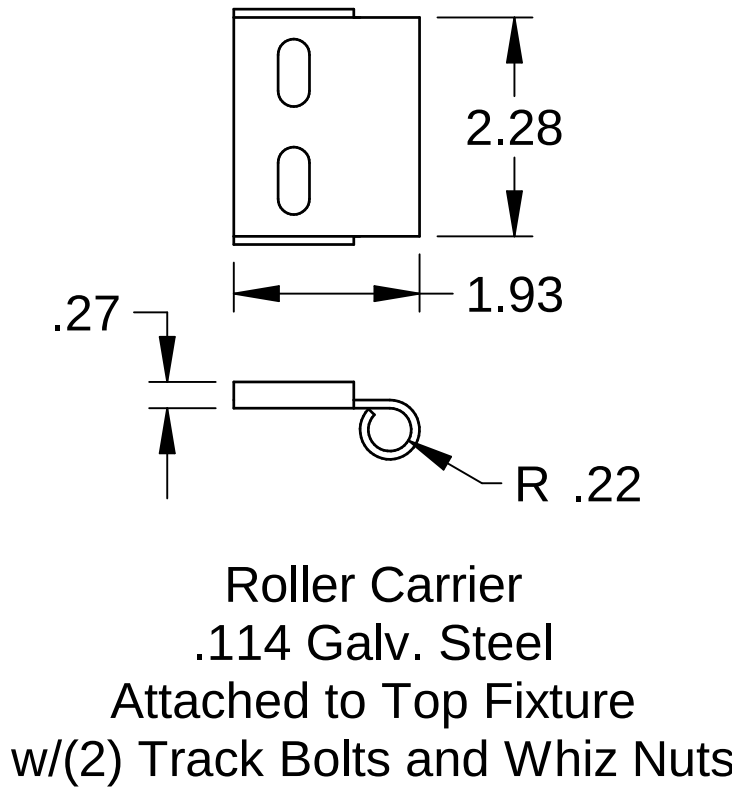
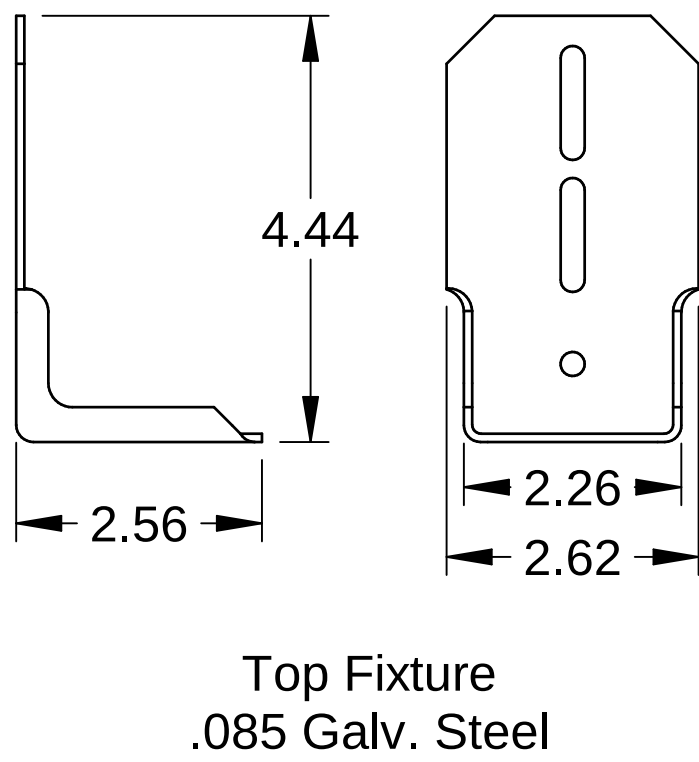
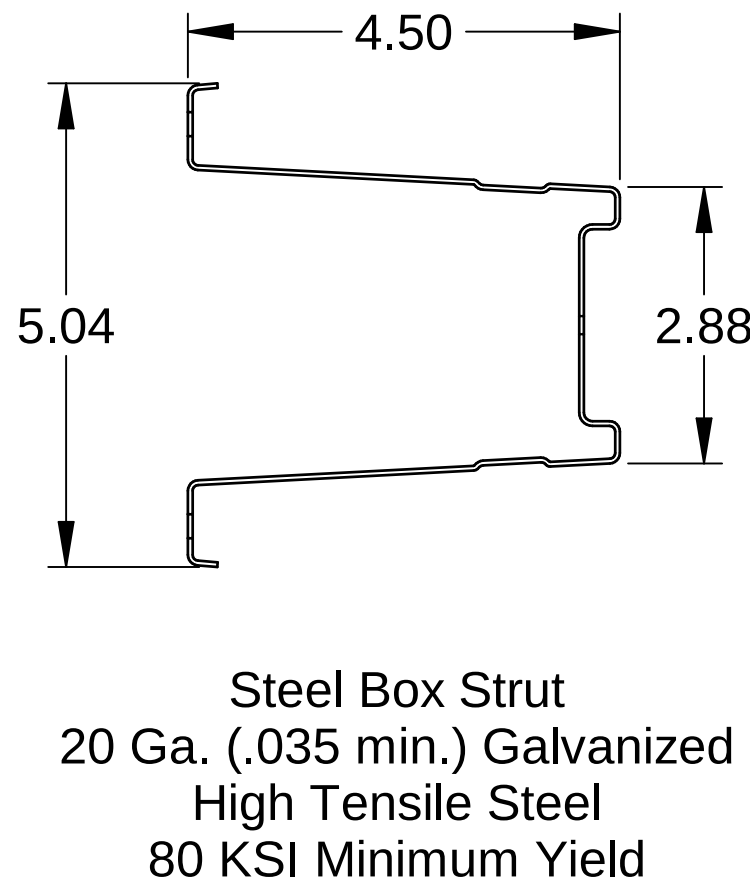
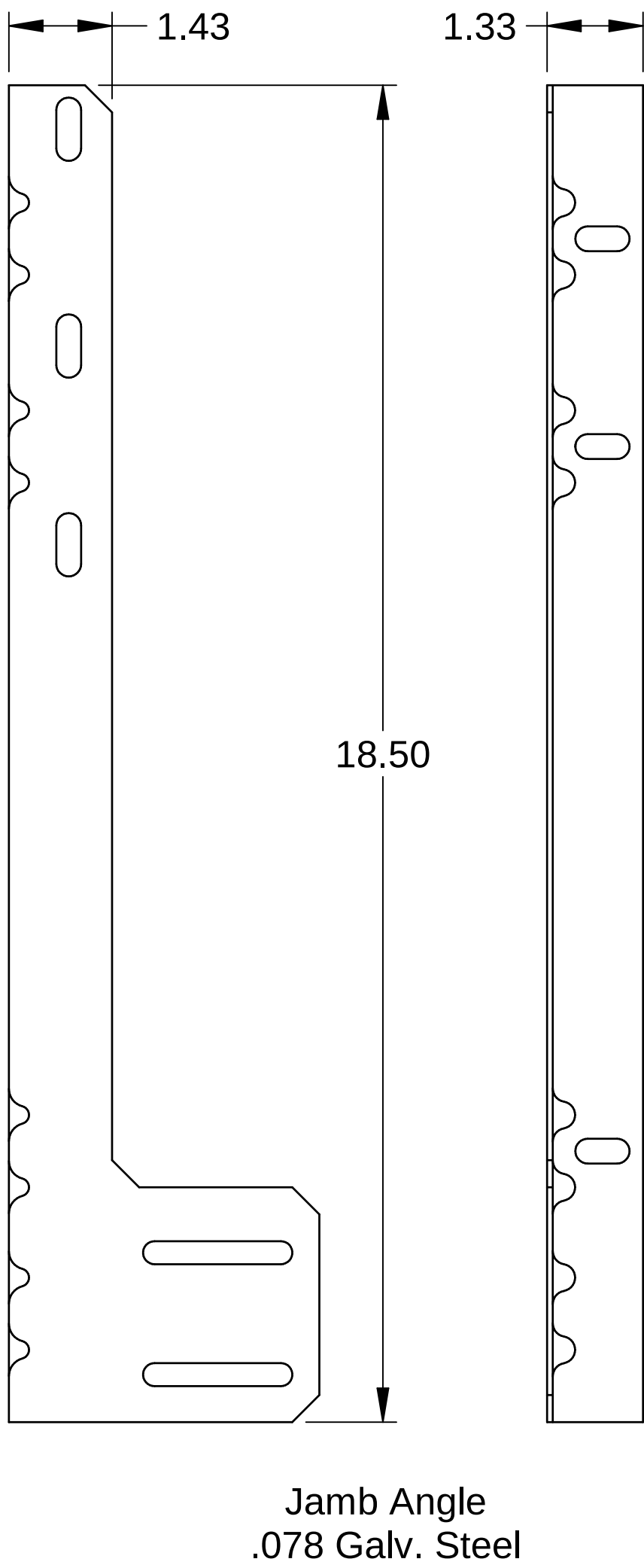
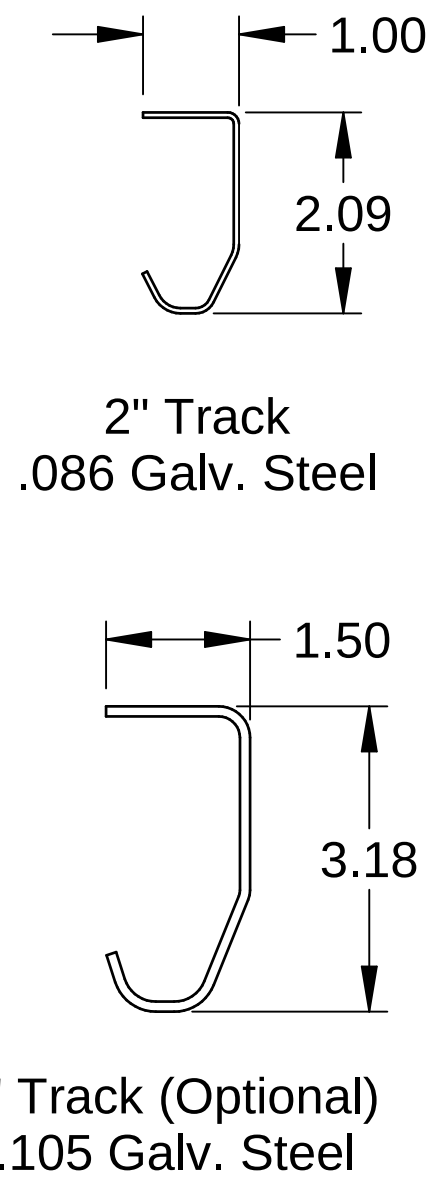
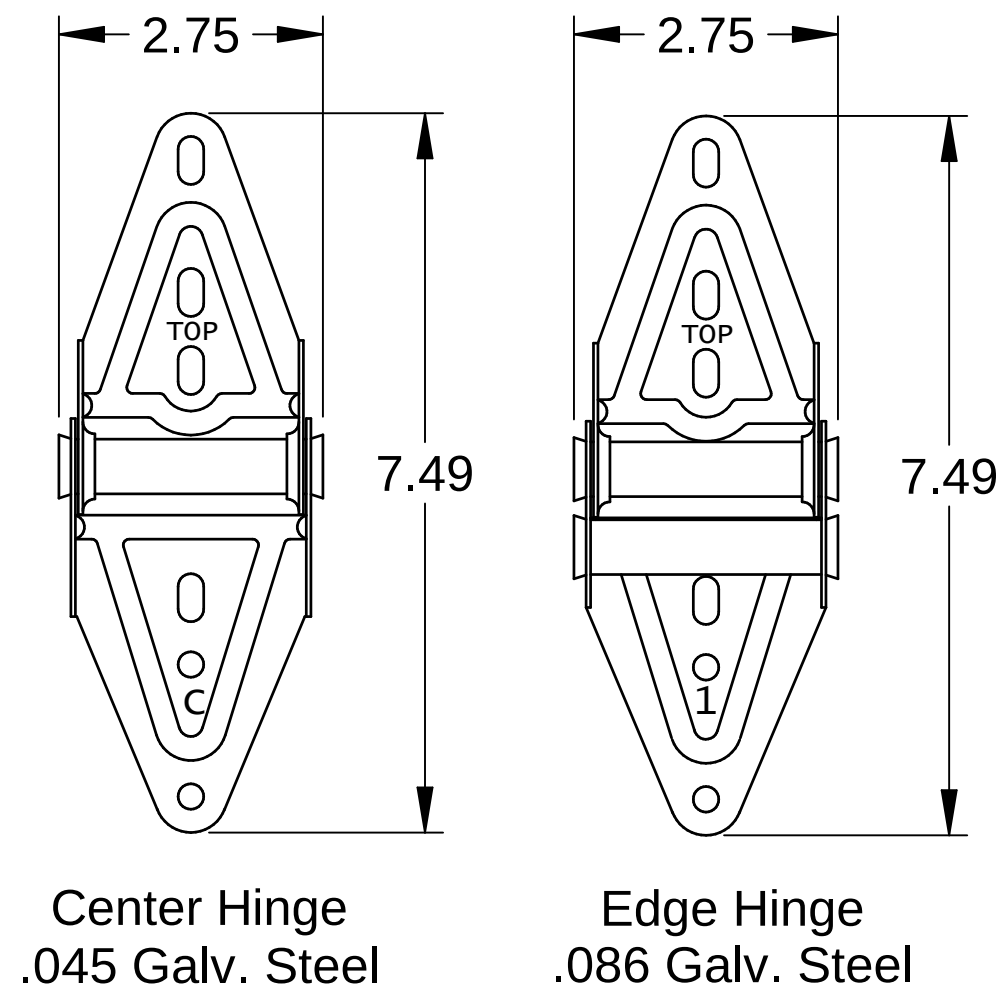
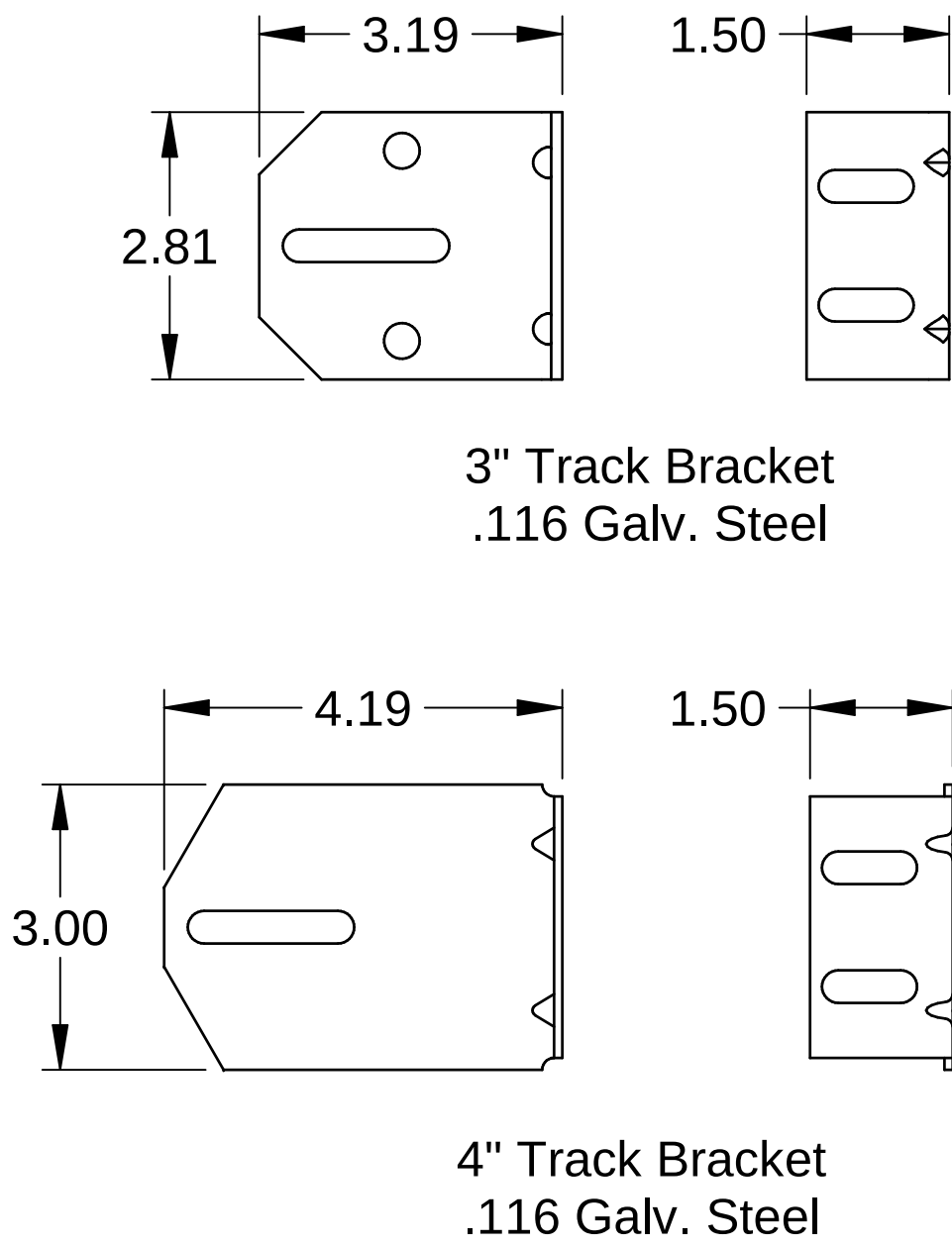
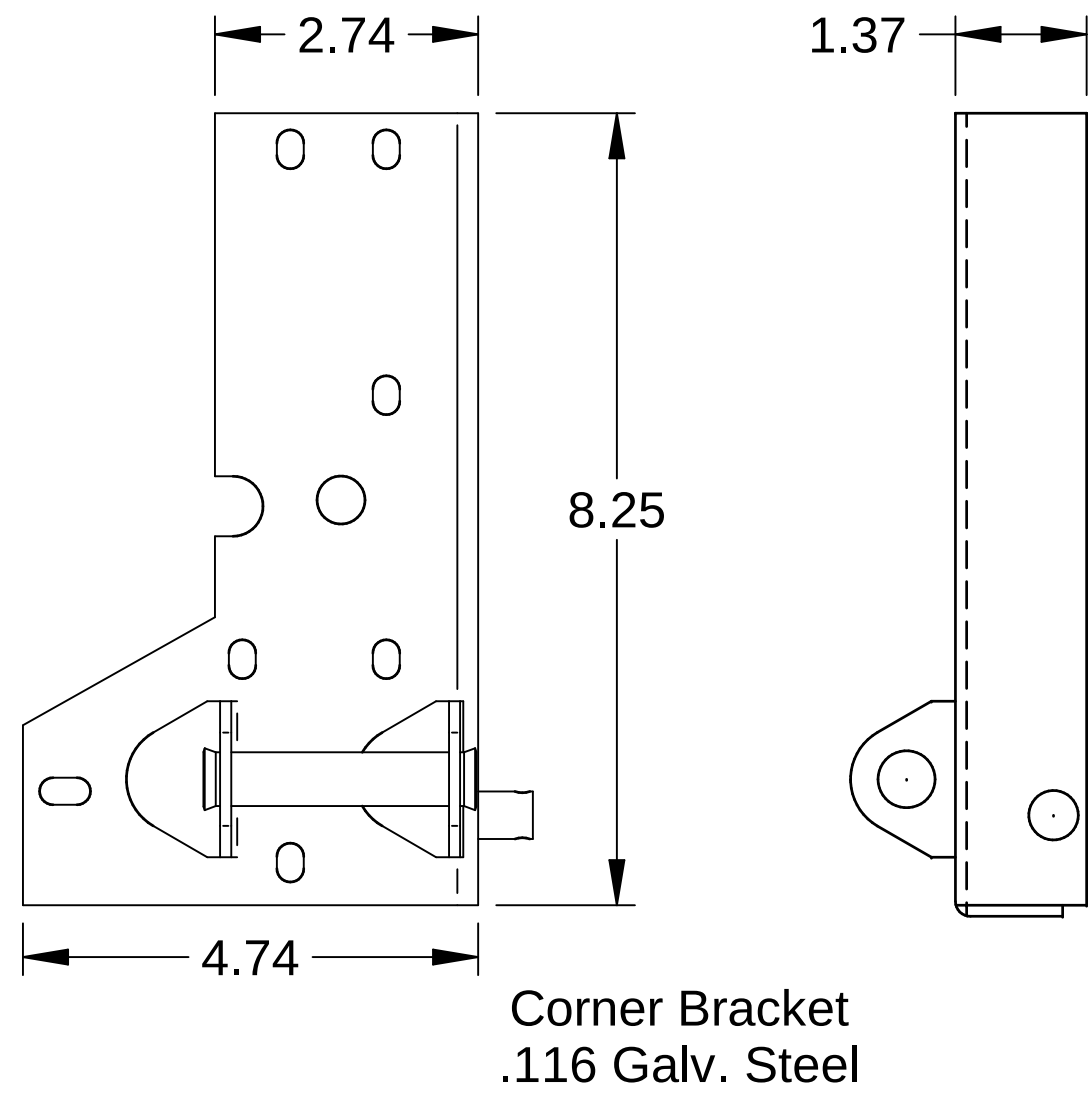
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ECO: 7512.02		No. P-2342	Rev D
		Sheet 2	



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