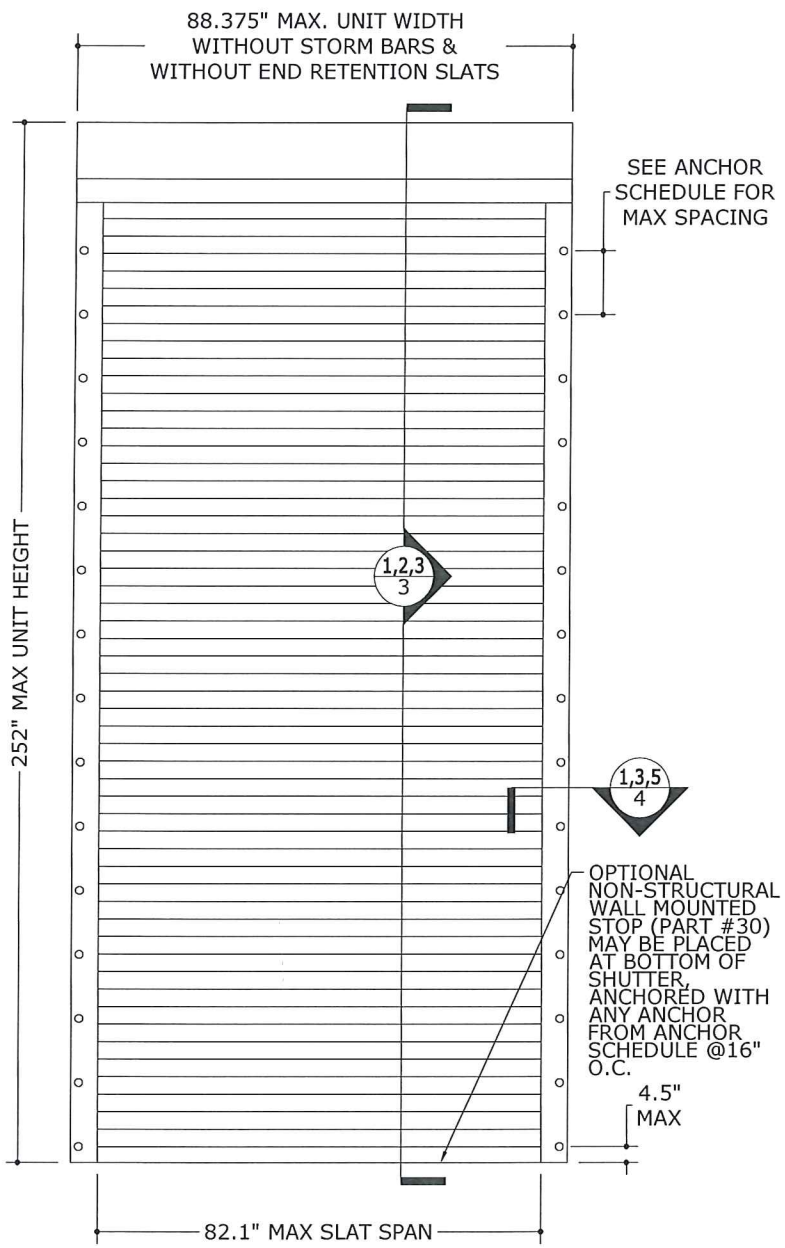


MAESTROSHIELD ALUMINUM ROLL-UP SHUTTER

WITH END RETENTION OR NON-END RETENTION SLATS AND RAILS



SLAT SPAN	ALLOWABLE DESIGN PRESSURE
47.1"	+/- 120.0 PSF
50.0"	+/- 104.2 PSF
55.0"	+/- 83.1 PSF
60.0"	+/- 67.3 PSF
65.0"	+/- 55.2 PSF
70.0"	+/- 45.7 PSF
75.0"	+/- 38.2 PSF
80.0"	+/- 32.2 PSF
82.1"	+/- 30.0 PSF

SLAT SPAN	ALLOWABLE DESIGN PRESSURE
116.7"	+/- 80.0 PSF
120.0"	+/- 78.2 PSF
130.0"	+/- 73.6 PSF
140.0"	+/- 70.0 PSF
150.0"	+/- 66.9 PSF
160.0"	+/- 64.3 PSF
170.0"	+/- 62.1 PSF
180.0"	+/- 60.1 PSF
190.0"	+/- 58.3 PSF
200.0"	+/- 56.8 PSF
210.0"	+/- 55.3 PSF
220.0"	+/- 54.0 PSF
230.0"	+/- 52.8 PSF
240.0"	+/- 51.7 PSF
250.0"	+/- 50.6 PSF
256.5"	+/- 50.0 PSF

TABLE 1 & 2 NOTES:

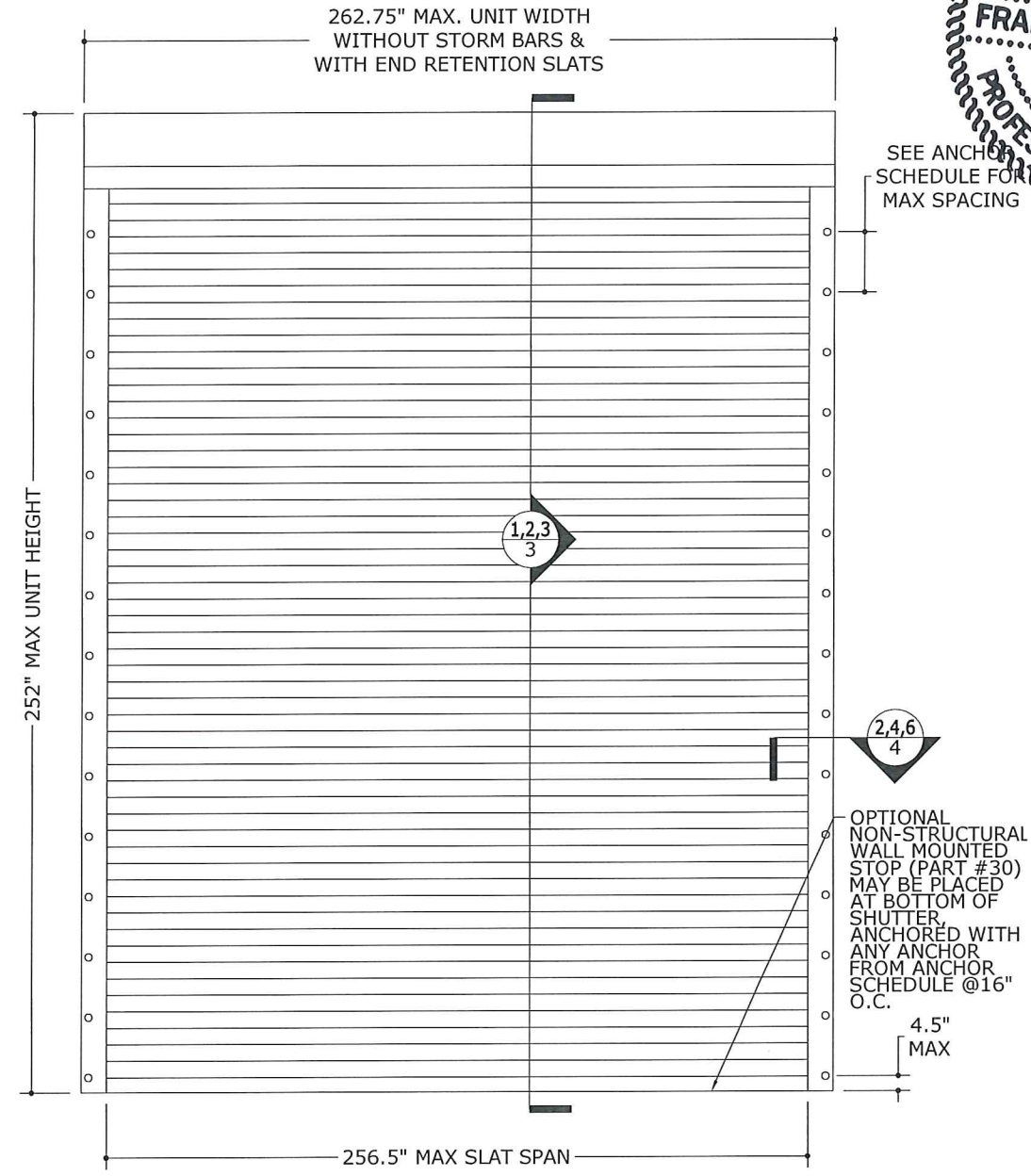
- SLAT SPAN IS DEFINED AS THE DISTANCE BETWEEN RAILS FOR SINGLE SPAN ASSEMBLIES.
- LINEAR INTERPOLATION BETWEEN SHUTTER SPANS IS NOT PERMITTED. FOR SPANS BETWEEN THOSE INDICATED ABOVE, THE DESIGN PRESSURES FOR THE NEXT HIGHER SPAN SHALL BE USED.

SLAT SPAN	INSTALLATIONS ≤ 30' ABOVE GRADE	INSTALLATIONS > 30' ABOVE GRADE
47.1"	3.1"	2.7"
50.0"	3.1"	2.8"
55.0"	3.1"	3.1"
60.0"	3.5"	3.5"
65.0"	3.8"	3.8"
70.0"	4.2"	4.2"
75.0"	4.6"	4.6"
80.0"	5.0"	5.0"
82.1"	5.1"	5.1"

SLAT SPAN	INSTALLATIONS ≤ 30' ABOVE GRADE	INSTALLATIONS > 30' ABOVE GRADE
116.7"	15.1"	8.9"
120.0"	20.7"	9.2"
130.0"	20.7"	9.9"
140.0"	20.7"	10.6"
150.0"	20.7"	11.3"
160.0"	20.7"	12.0"
170.0"	20.7"	12.8"
180.0"	20.7"	13.5"
190.0"	20.7"	14.3"
200.0"	20.7"	15.1"
210.0"	20.7"	15.9"
220.0"	20.7"	16.8"
230.0"	20.7"	17.6"
240.0"	20.7"	18.4"
250.0"	20.7"	19.3"
256.5"	20.7"	19.9"

TABLE 3 & 4 NOTES:

- SLAT SPAN IS DEFINED AS THE DISTANCE BETWEEN RAILS FOR SINGLE SPAN ASSEMBLIES
- SEPARATION FROM GLAZING IS REQUIRED **ONLY** IN ASTM WIND ZONE 4 AND ESSENTIAL FACILITIES.
- LINEAR INTERPOLATION BETWEEN SHUTTER SPANS IS NOT PERMITTED. FOR SPANS BETWEEN THOSE INDICATED ABOVE, THE SEPARATION FROM GLASS FOR THE NEXT HIGHER SPAN SHALL BE USED.



END RETENTION SHUTTER W/O STORM BARS
N.T.S. EXTERIOR ELEV

GENERAL NOTES

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 2006 INTERNATIONAL BUILDING CODE WITH TEXAS REVISIONS EFFECTIVE JANUARY 1, 2008, PER ASTM E330, E1886, AND E1996 STANDARDS.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED PER SEPARATE ENGINEERING IN ACCORDANCE WITH THE GOVERNING CODE. PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7 SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.
4. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.

5. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
6. ROLL-UP MECHANISM AND HOOD ASSEMBLY ARE NOT PART OF THIS APPROVAL.
7. THIS DOCUMENT CONTAINS INFORMATION RELEVANT TO THE NECESSARY STRUCTURAL REQUIREMENTS OF THE SYSTEM INSTALLATION. COMPONENTS AND FASTENERS NOT REFERENCED WHICH ARE PART OF THE INTERNAL FABRICATION OF THE SPECIFIED SYSTEMS OR ASSEMBLIES SHALL BE PER MANUFACTURER PUBLISHED SPECIFICATIONS.
8. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.

9. ALL EXTRUSIONS SHALL BE MINIMUM 6063-T5 ALUMINUM ALLOY, UNLESS NOTED OTHERWISE.
10. EACH SHUTTER ASSEMBLY SHALL BEAR A PERMANENT LABEL ON THE BOTTOM OF THE HOOD FACING THE EXTERIOR WITH THE FOLLOWING MINIMUM INFORMATION:
TOWN & COUNTRY INDUSTRIES
FORT LAUDERDALE, FL
MISSILE LEVEL D - ASTM E1886, E1996 & E330
11. ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI. ALL ALUMINUM 3/16"Ø OR 1/4"Ø POP RIVETS SHALL HAVE A MINIMUM SHEAR ULTIMATE STRENGTH OF 42ksi.
12. ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED AS PRESCRIBED IN THE FLORIDA BUILDING CODE.

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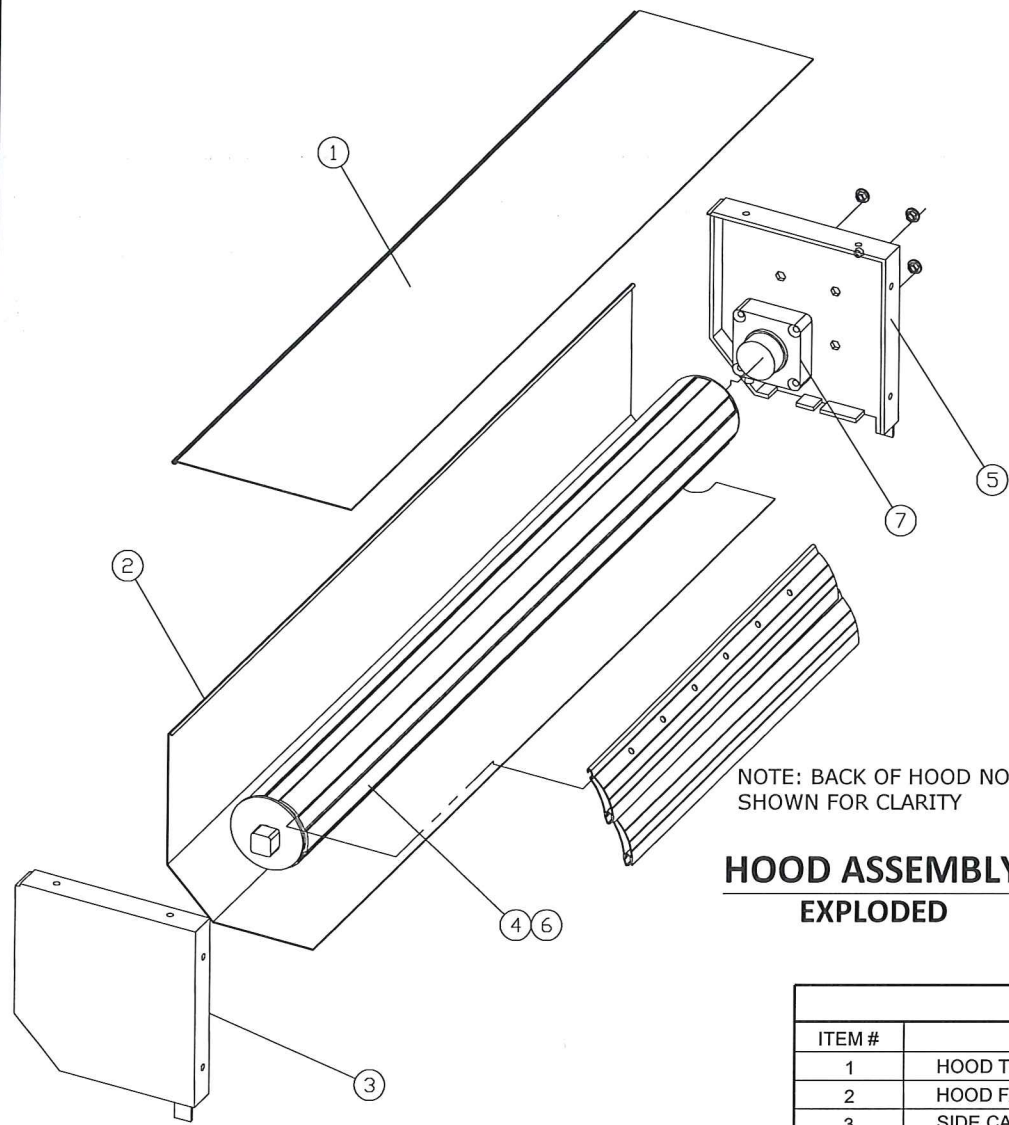
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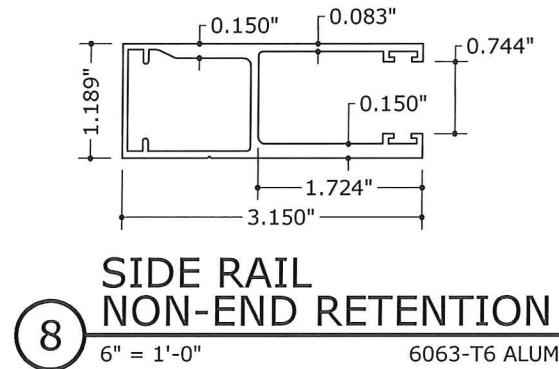
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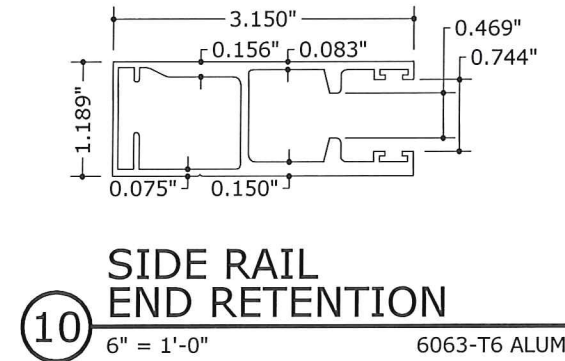
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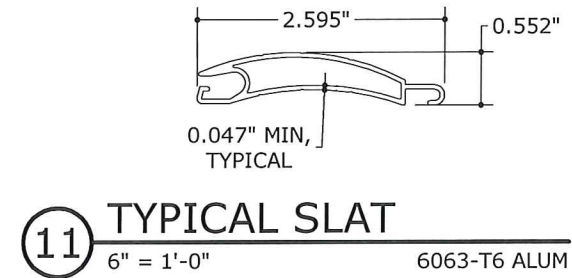
**HOOD ASSEMBLY
EXPLODED**



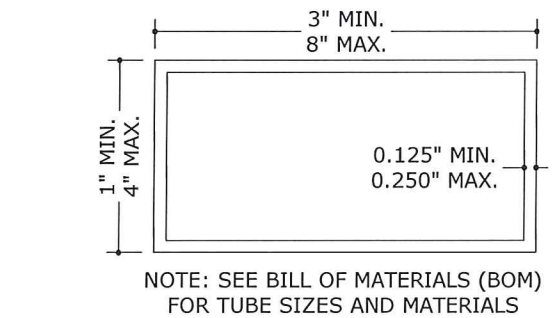
**8 SIDE RAIL
NON-END RETENTION**
6" = 1'-0" 6063-T6 ALUM



**10 SIDE RAIL
END RETENTION**
6" = 1'-0" 6063-T6 ALUM

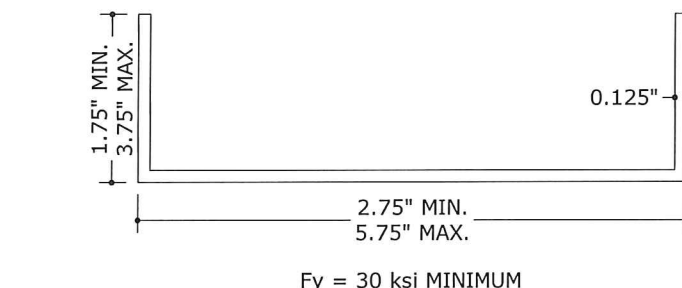


11 TYPICAL SLAT
6" = 1'-0" 6063-T6 ALUM

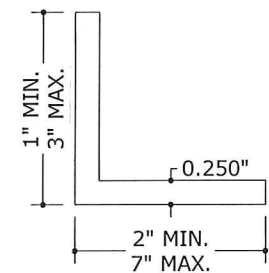


12-26 ALUMINUM TUBE
6" = 1'-0" MAT'L PER BOM

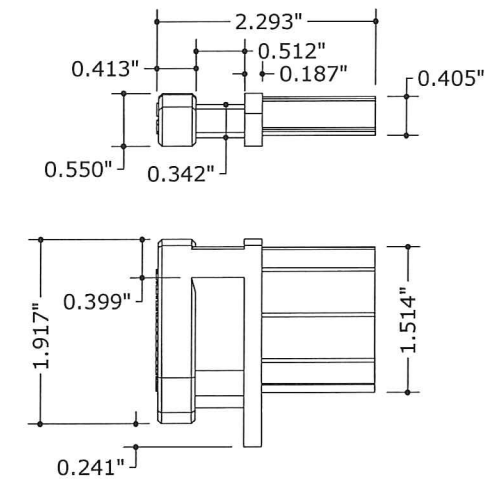
NOTE: SEE BILL OF MATERIALS (BOM)
FOR TUBE SIZES AND MATERIALS



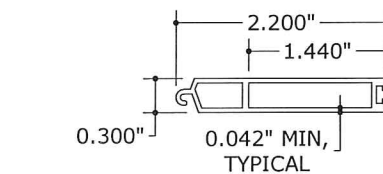
27 STEEL REINFORCEMENT
6" = 1'-0" A36 GALV. STEEL OR STAINLESS STEEL



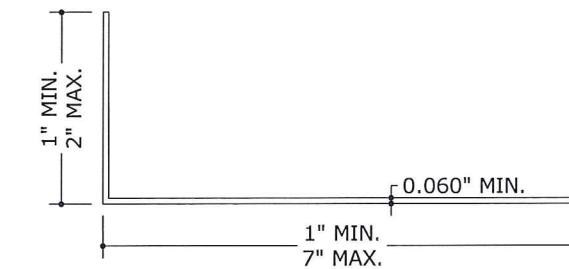
28 ALUMINUM ANGLE
6" = 1'-0" 6061-T6 OR 6005-T5 ALUM



9 END RETENTION
6" = 1'-0" NYLON



**29 OPTIONAL
BOTTOM SLAT**
6" = 1'-0" 6063-T5 ALUM



30 WALL MOUNTED STOP
6" = 1'-0" 6063-T6 ALUM

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
1	HOOD TOP	3105-H14 ALUM
2	HOOD FACE	3105-H14 ALUM
3	SIDE CAP, RIGHT	CAST ALUM
4	MOTOR TUBE, 60-88mm DIAMETER, 3mm THICK	6063-T5 ALUM
4	MOTOR TUBE, 60-100mm DIAMETER, 3mm THICK	GALV. STEEL
5	SIDE CAP, LEFT	CAST ALUM
6	IDLE BEARING	NYLON/STEEL
7	MANUAL GEAR OR ELECTRONIC MOTOR	
8	SIDE RAIL, NON-END RETENTION	6063-T6 MIN. ALUM
9	END RETENTION GUIDE	NYLON
10	SIDE RAIL, END RETENTION	6063-T6 ALUM
11	TYPICAL SLAT	6063-T6 ALUM
12	1"x3"x0.125" TUBE	6063-T6 ALUM
13	2"x3"x0.125" TUBE	6063-T6 ALUM
14	2"x4"x0.125" TUBE	6063-T6 ALUM
15	2"x5"x0.125" TUBE	6063-T6 ALUM
16	2"x3"x0.25" TUBE	6061-T6 OR 6005-T5 ALUM
17	2"x4"x0.25" TUBE	6061-T6 OR 6005-T5 ALUM
18	2"x5"x0.25" TUBE	6061-T6 OR 6005-T5 ALUM
19	2"x6"x0.125" TUBE	6063-T6 ALUM
20	2"x6"x0.25" TUBE	6061-T6 OR 6005-T5 ALUM
21	3"x3"x0.125" TUBE	6063-T6 ALUM
22	3"x3"x0.25" TUBE	6061-T6 OR 6005-T5 ALUM
23	4"x4"x0.125" TUBE	6063-T6 ALUM
24	4"x4"x0.25" TUBE	6061-T6 OR 6005-T5 ALUM
25	4"x6"x0.25" TUBE	6061-T6 OR 6005-T5 ALUM
26	4"x8"x0.25" TUBE	6061-T6 OR 6005-T5 ALUM
27	STEEL REINFORCEMENT (Fy = 30 ksi MIN.)	A36 OR STAINLESS STEEL
28	ALUMINUM ANGLE	6061-T6 OR 6005-T5 ALUM
29	OPTIONAL BOTTOM SLAT	6063-T5 ALUM
30	WALL MOUNTED STOP	6063-T6 ALUM

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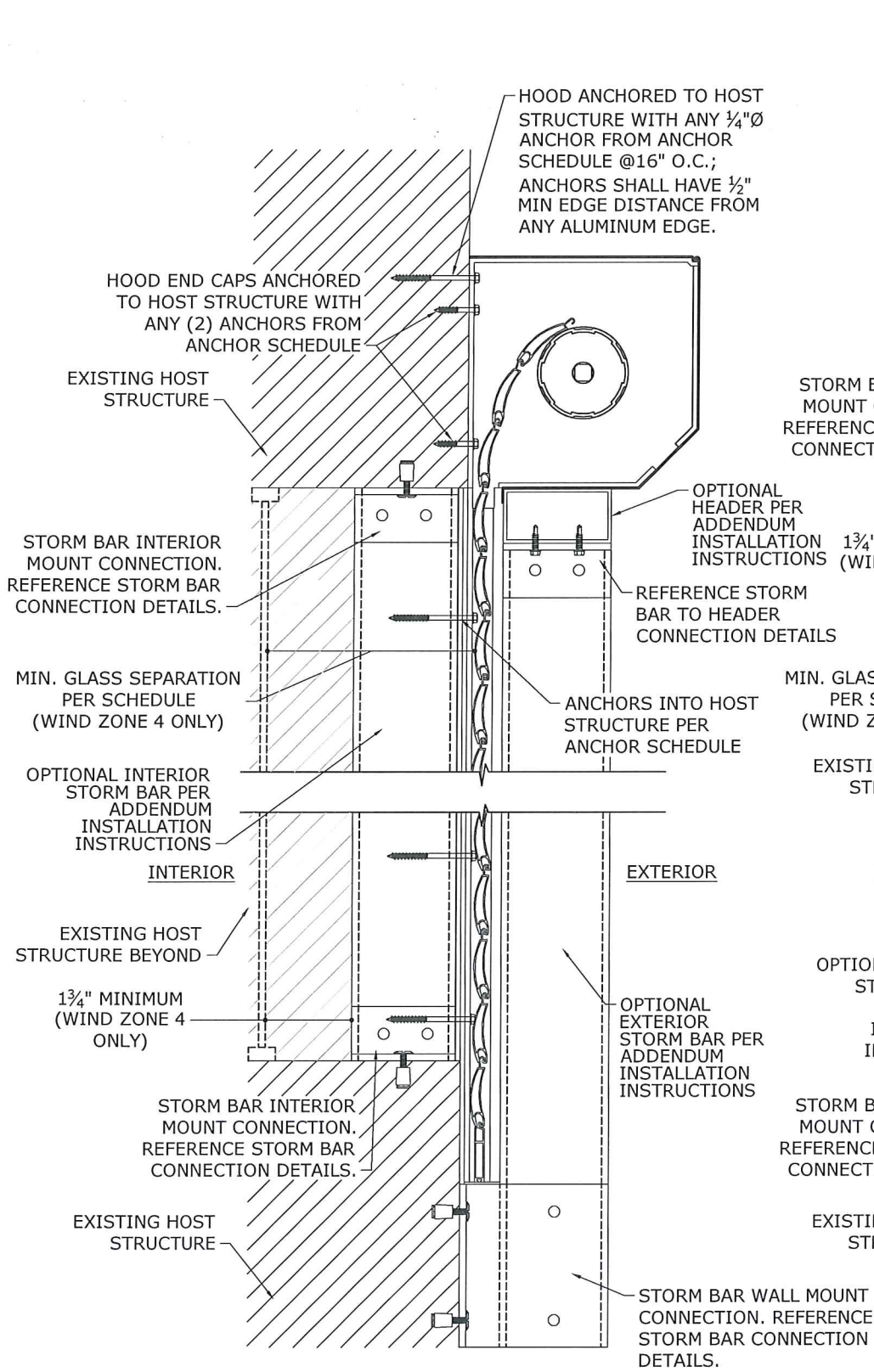
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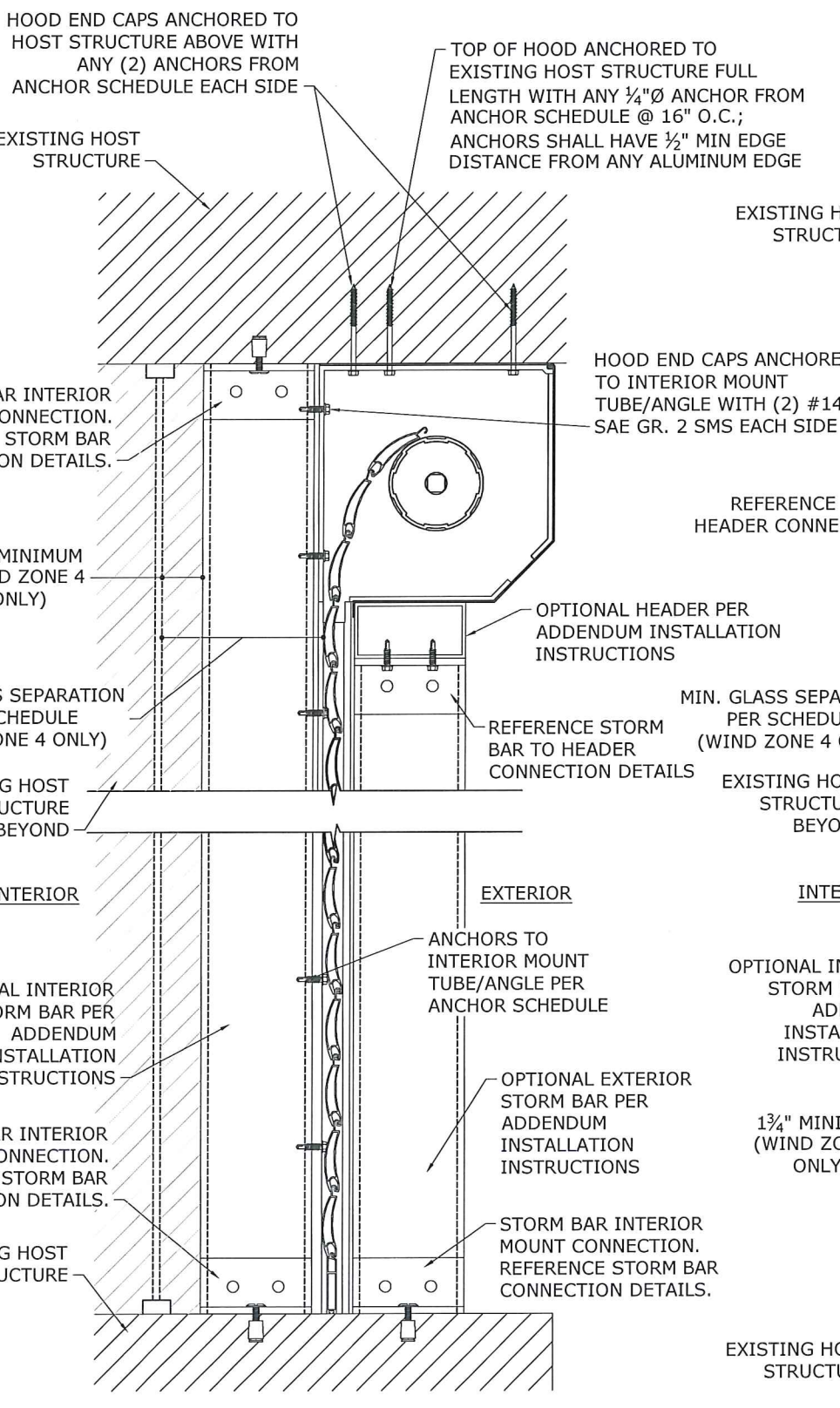
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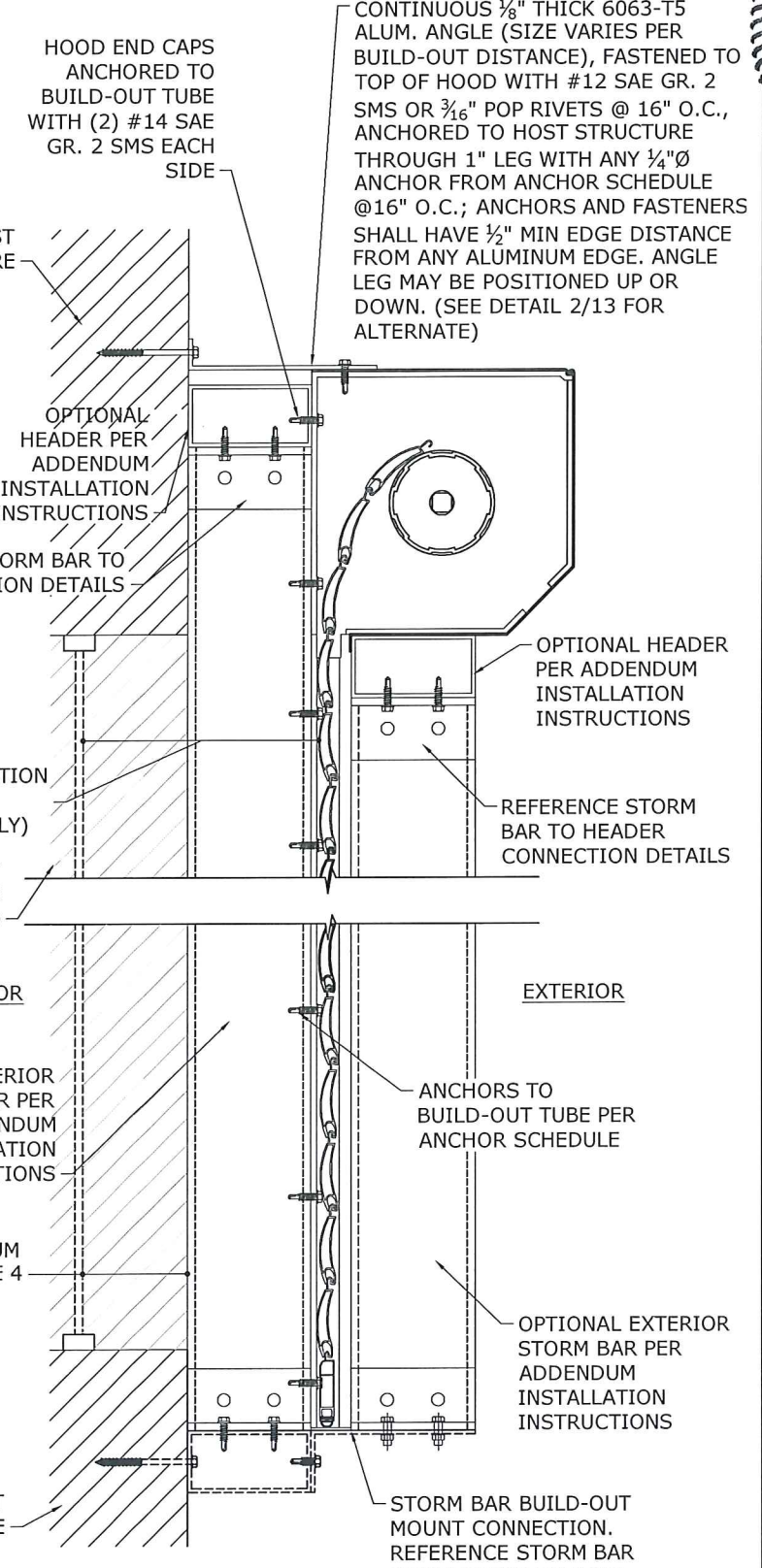
1 WALL MOUNT (SHOWN W/ OPTIONAL STORM BARS)
3 N.T.S. VERT SECTION

NOTE: FOR OPTIONAL MOUNTING CONDITIONS, REFERENCE ADDENDUM STORM BAR AND MULLION INSTALLATION INSTRUCTIONS.



2 INTERIOR MOUNT (SHOWN W/ OPTIONAL STORM BARS)
3 N.T.S. VERT SECTION

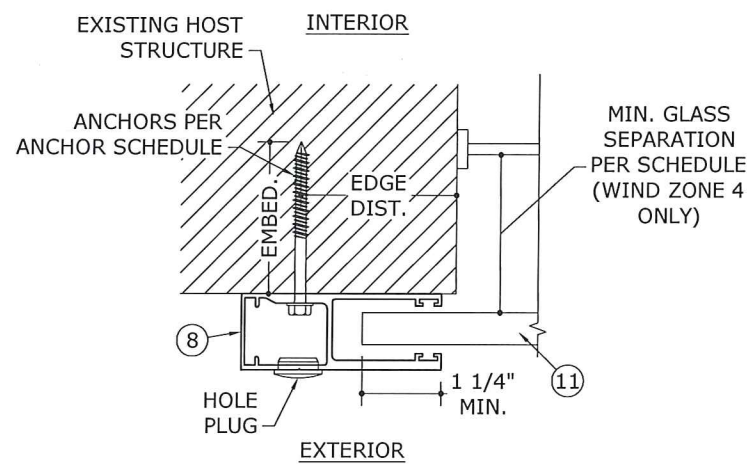
NOTE: FOR OPTIONAL MOUNTING CONDITIONS, REFERENCE ADDENDUM STORM BAR AND MULLION INSTALLATION INSTRUCTIONS.



3 BUILD-OUT MOUNT (SHOWN W/ OPTIONAL STORM BARS)
3 N.T.S. VERT SECTION

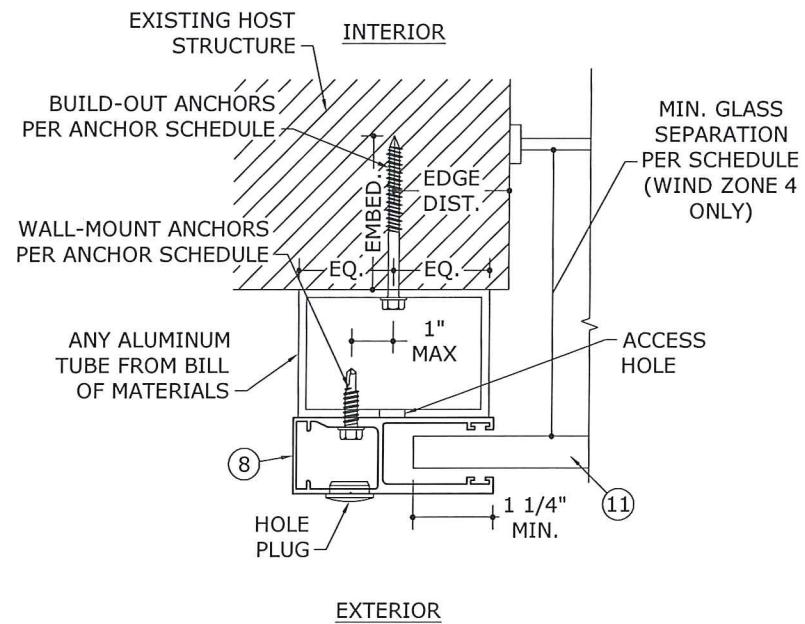
NOTE: FOR OPTIONAL MOUNTING CONDITIONS, REFERENCE ADDENDUM STORM BAR AND MULLION INSTALLATION INSTRUCTIONS.

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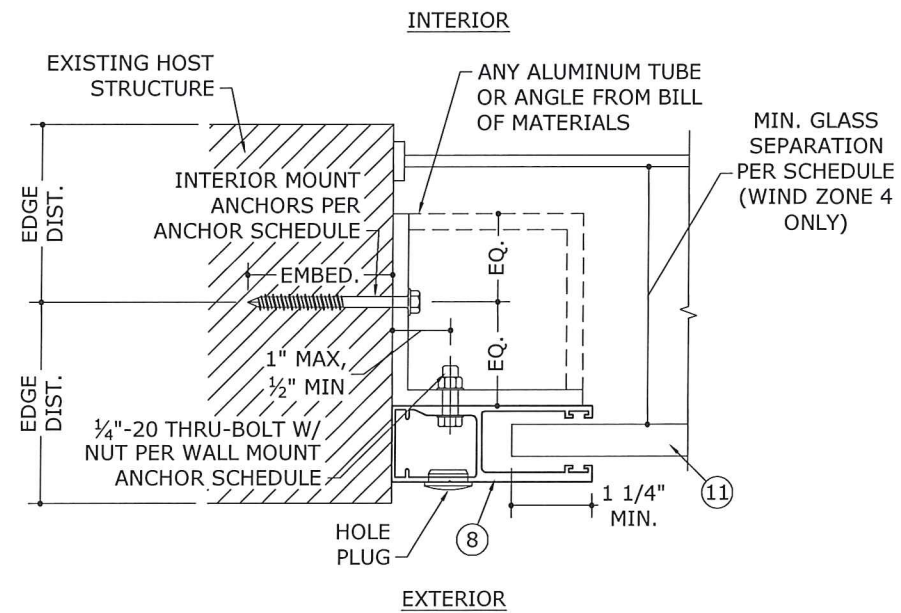
**NON-END RETENTION
TYPICAL WALL MOUNT**

1
4 N.T.S. HORIZ SECTION



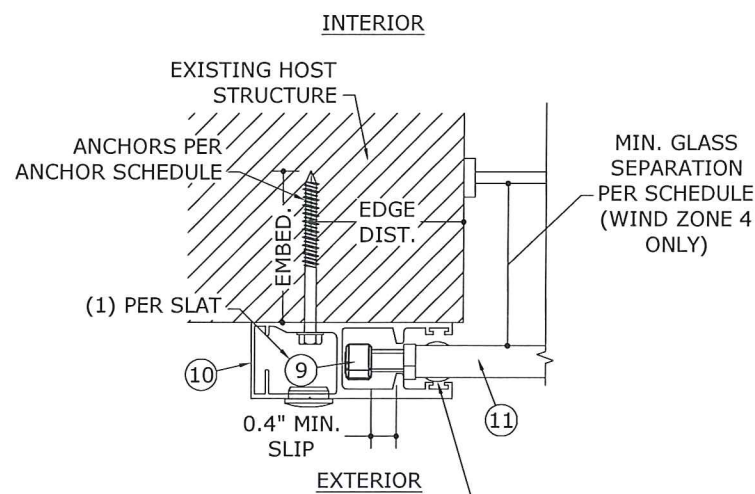
**NON-END RETENTION
TYP. BUILD-OUT MOUNT**

3
4 N.T.S. HORIZ SECTION



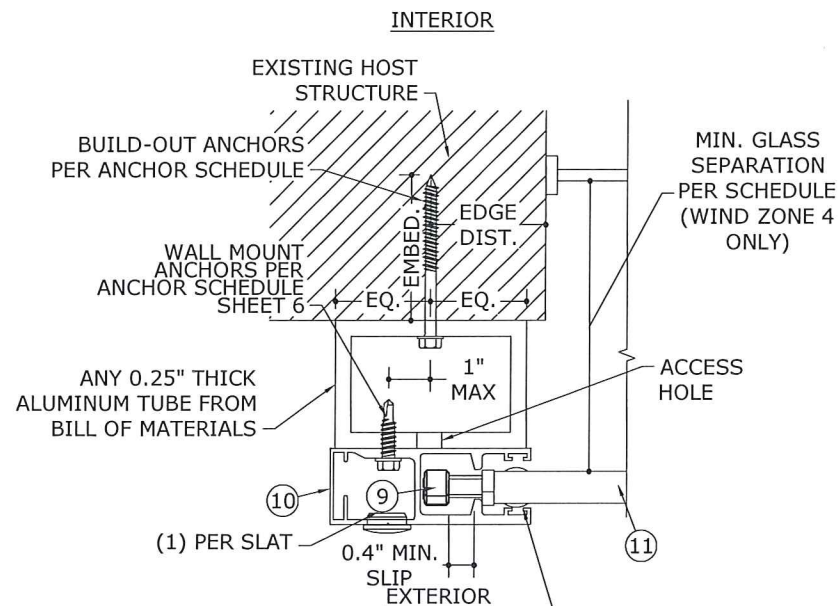
**NON-END RETENTION
TYP. INTERIOR MOUNT**

5
4 N.T.S. HORIZ SECTION



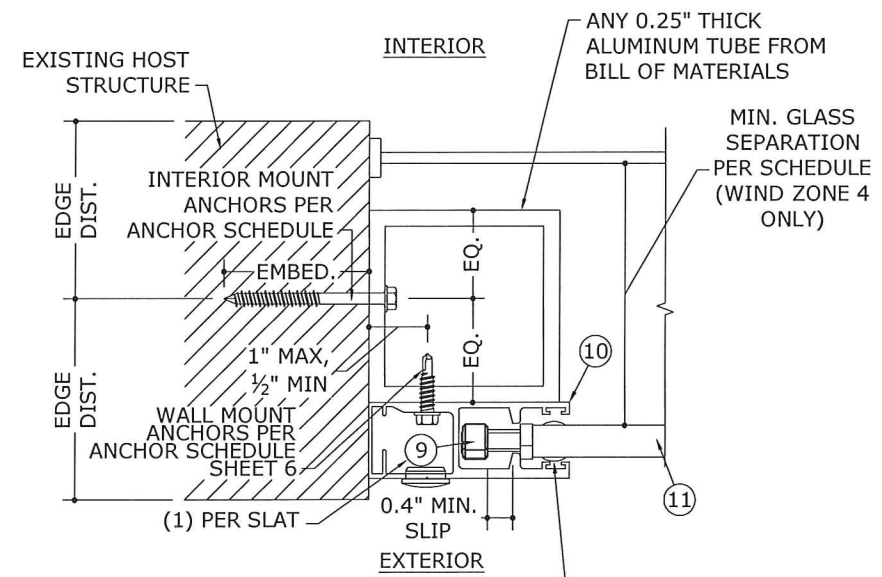
**END RETENTION
TYPICAL WALL MOUNT**

2
4 N.T.S. HORIZ SECTION



**END RETENTION
TYP. BUILD-OUT MOUNT**

4
4 N.T.S. HORIZ SECTION



**END RETENTION
TYP. INTERIOR MOUNT**

6
4 N.T.S. HORIZ SECTION

FOR SLAT SPANS UP TO 120", USE (1) #9 END RETENTION GUIDE WITH ONE 3/16" ALUMINUM RIVET FIRST (5) SLATS FROM TOP AND FIRST (6) SLATS FROM BOTTOM, THEN ONE EVERY OTHER SLAT. FOR SLAT SPANS OVER 120" USE ONE END RETENTION GUIDE AND TWO 3/16" ALUMINUM RIVETS ON EACH SLAT.

FOR SLAT SPANS UP TO 120", USE (1) #9 END RETENTION GUIDE WITH ONE 3/16" ALUMINUM RIVET FIRST (5) SLATS FROM TOP AND FIRST (6) SLATS FROM BOTTOM, THEN ONE EVERY OTHER SLAT. FOR SLAT SPANS OVER 120" USE ONE END RETENTION GUIDE AND TWO 3/16" ALUMINUM RIVETS ON EACH SLAT.

FOR SLAT SPANS UP TO 120", USE (1) #9 END RETENTION GUIDE WITH ONE 3/16" ALUMINUM RIVET FIRST (5) SLATS FROM TOP AND FIRST (6) SLATS FROM BOTTOM, THEN ONE EVERY OTHER SLAT. FOR SLAT SPANS OVER 120" USE ONE END RETENTION GUIDE AND TWO 3/16" ALUMINUM RIVETS ON EACH SLAT.

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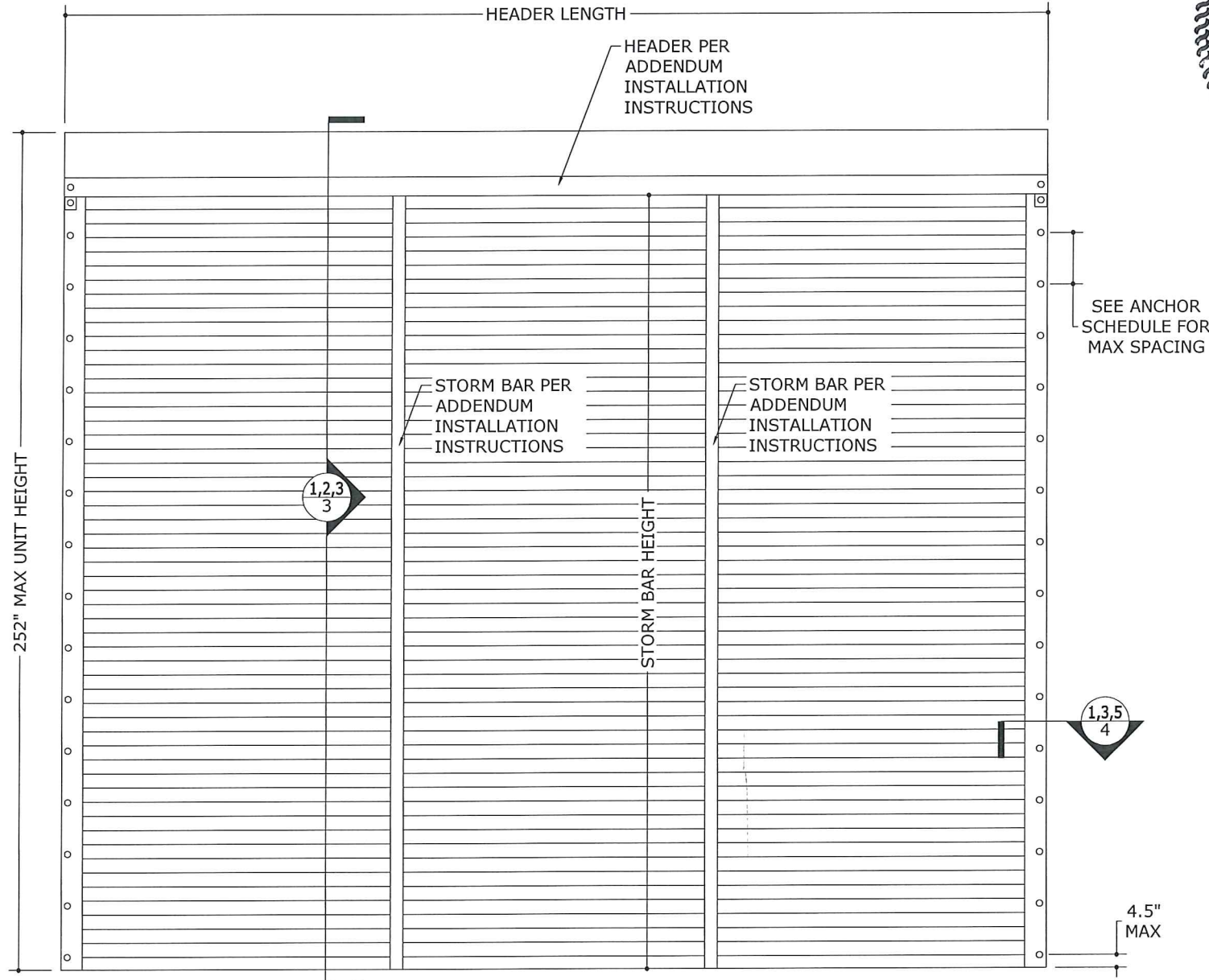
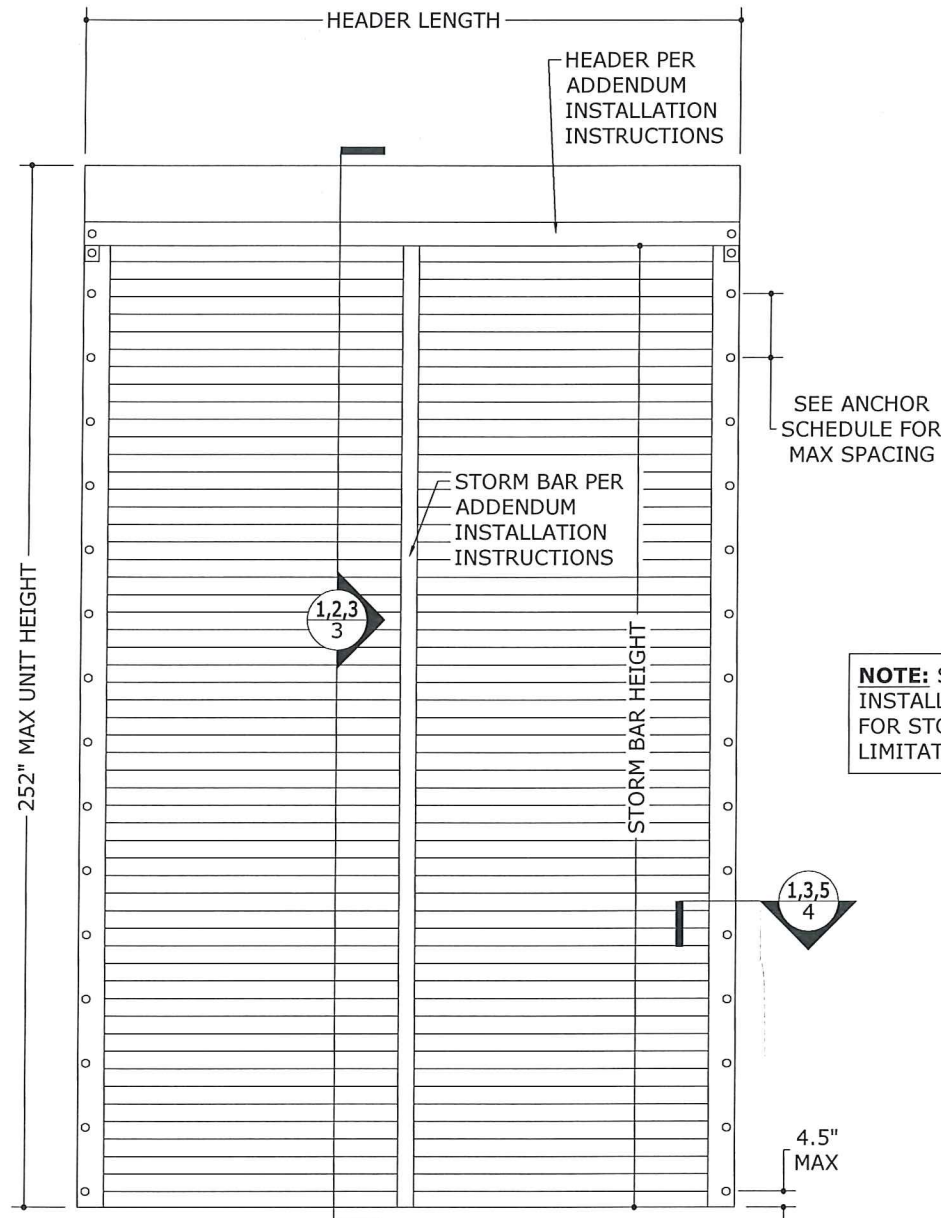
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NOTE: SEE ADDENDUM INSTALLATION INSTRUCTIONS FOR STORM BAR AND HEADER LIMITATIONS.

1
9 NON-END RETENTION SHUTTER WITH STORM BARS (DOUBLE-SPAN) EXTERIOR ELEV
N.T.S.

2
9 NON-END RETENTION SHUTTER WITH STORM BARS (TRIPLE-SPAN) EXTERIOR ELEV
N.T.S.

TABLE 5 NON-END RETENTION WITH INTERIOR AND EXTERIOR STORM BARS	
SLAT SPAN	ALLOWABLE DESIGN PRESSURE
47.1"	+/- 120.0 PSF
50.0"	+/- 104.2 PSF
55.0"	+/- 82.0 PSF
60.0"	+/- 60.3 PSF
65.0"	+/- 45.5 PSF
70.0"	+/- 34.3 PSF
75.0"	+/- 26.3 PSF
80.0"	+/- 20.5 PSF
82.1"	+/- 18.6 PSF

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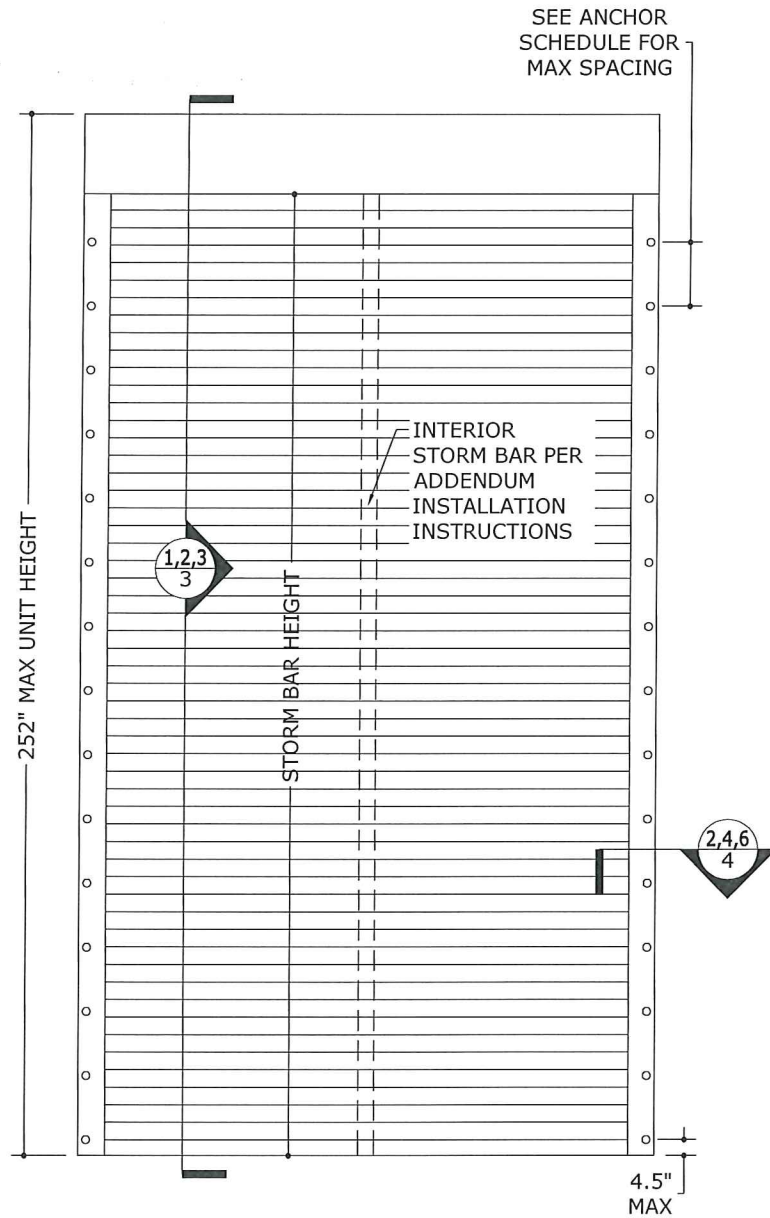
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SEE ANCHOR SCHEDULE FOR MAX SPACING

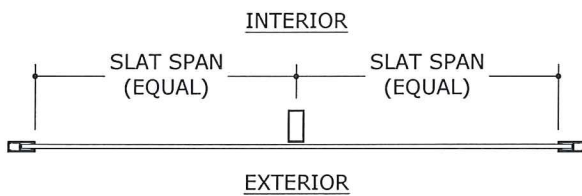
INTERIOR STORM BAR PER ADDENDUM INSTALLATION INSTRUCTIONS

1,2,3/3

STORM BAR HEIGHT

2,4,6/4

4.5" MAX



1 END RETENTION SHUTTER WITH INTERIOR STORM BARS (DOUBLE-SPAN)

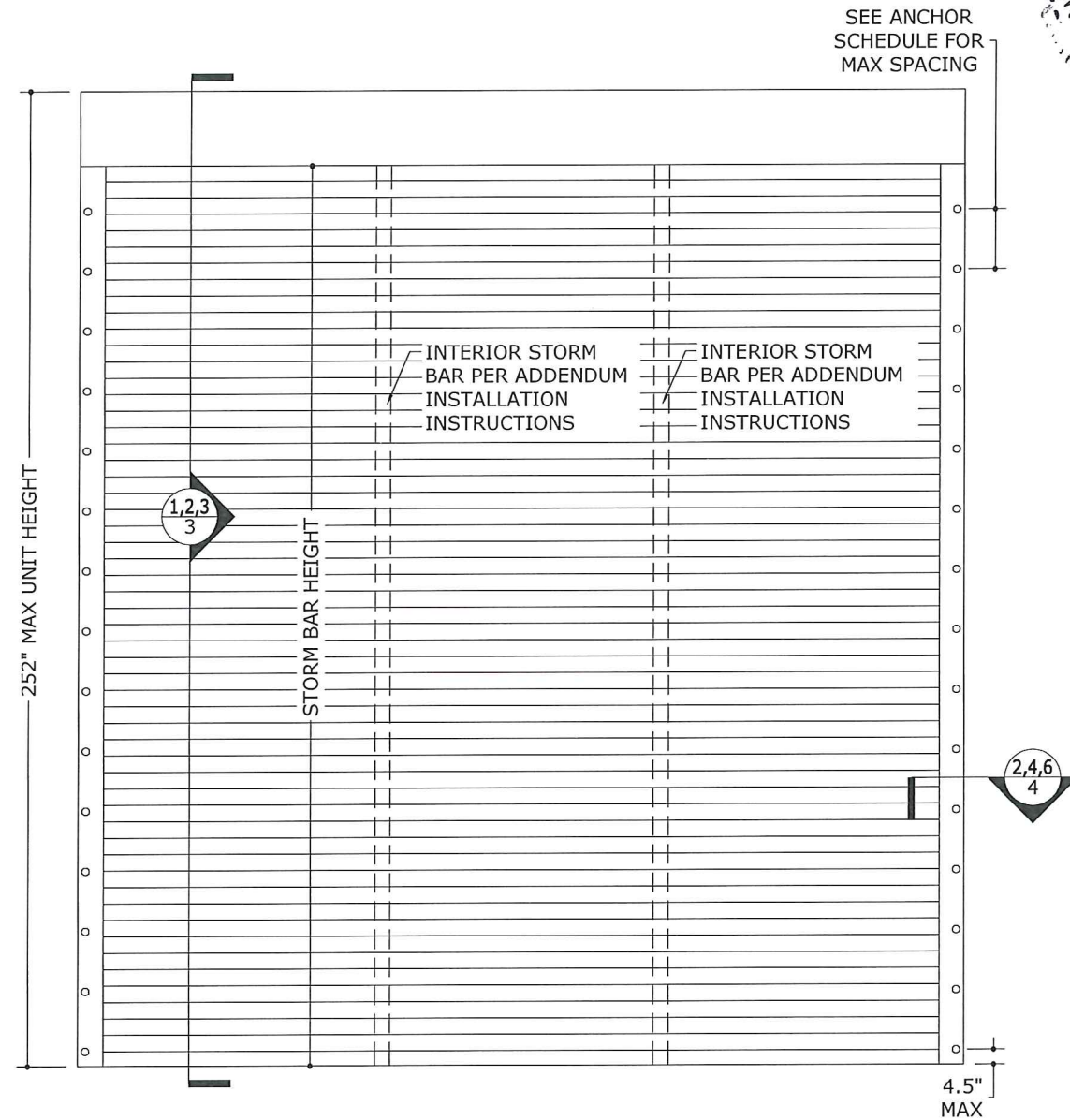
N.T.S.

EXTERIOR ELEV

TABLE 6 MINIMUM GLAZING SEPARATION END-RETENTION SHUTTER WITH INTERIOR STORM BARS (WIND ZONE 4 ONLY)				
SLAT SPAN	SPAN TYPE	POSITIVE DESIGN PRESSURE	INSTALLATIONS ≤ 30' ABOVE GRADE	INSTALLATIONS > 30' ABOVE GRADE
48.5"	DOUBLE SPAN	+ 30 PSF	3.7"	3.7"
		+ 40 PSF	3.7"	3.7"
		+ 50 PSF	3.7"	3.7"
		+ 60 PSF	3.7"	3.7"
		+ 70 PSF	3.7"	3.7"
55.0"	DOUBLE SPAN	+ 30 PSF	3.9"	3.9"
		+ 40 PSF	3.9"	3.9"
		+ 50 PSF	3.9"	3.9"
		+ 60 PSF	3.9"	3.9"
		+ 70 PSF	3.9"	3.9"
73.0"	DOUBLE SPAN	+ 30 PSF	4.6"	4.3"
		+ 40 PSF	4.6"	4.3"
		+ 50 PSF	4.6"	4.4"
		+ 60 PSF	4.6"	4.6"
		+ 70 PSF	4.7"	4.7"
48.7"	TRIPLE SPAN	+ 30 PSF	3.2"	3.2"
		+ 40 PSF	3.2"	3.2"
		+ 50 PSF	3.2"	3.2"
		+ 60 PSF	3.2"	3.2"
		+ 70 PSF	3.2"	3.2"
64.7"	TRIPLE SPAN	+ 30 PSF	3.8"	3.5"
		+ 40 PSF	3.8"	3.5"
		+ 50 PSF	3.8"	3.5"
		+ 60 PSF	3.8"	3.7"
		+ 70 PSF	3.8"	3.8"

TABLE 6 NOTES:

- SLAT SPAN IS DEFINED 1/10 AND 2/10
- SEPARATION FROM GLAZING IS REQUIRED **ONLY** IN ASTM WIND ZONE 4 AND ESSENTIAL FACILITIES.
- LINEAR INTERPOLATION BETWEEN SHUTTER SPANS IS NOT PERMITTED. FOR SPANS BETWEEN THOSE INDICATED ABOVE, THE SEPARATION FROM GLASS FOR THE NEXT HIGHER SPAN SHALL BE USED.



SEE ANCHOR SCHEDULE FOR MAX SPACING

INTERIOR STORM BAR PER ADDENDUM INSTALLATION INSTRUCTIONS

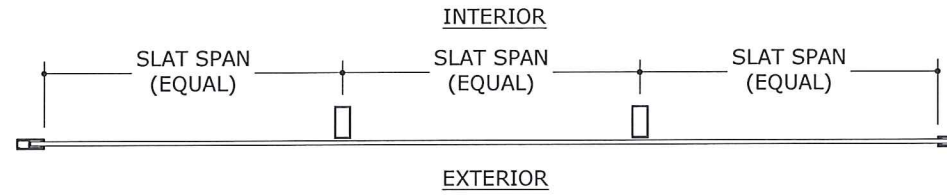
INTERIOR STORM BAR PER ADDENDUM INSTALLATION INSTRUCTIONS

1,2,3/3

STORM BAR HEIGHT

2,4,6/4

4.5" MAX



2 END RETENTION SHUTTER WITH INTERIOR STORM BARS (TRIPLE-SPAN)

N.T.S.

EXTERIOR ELEV

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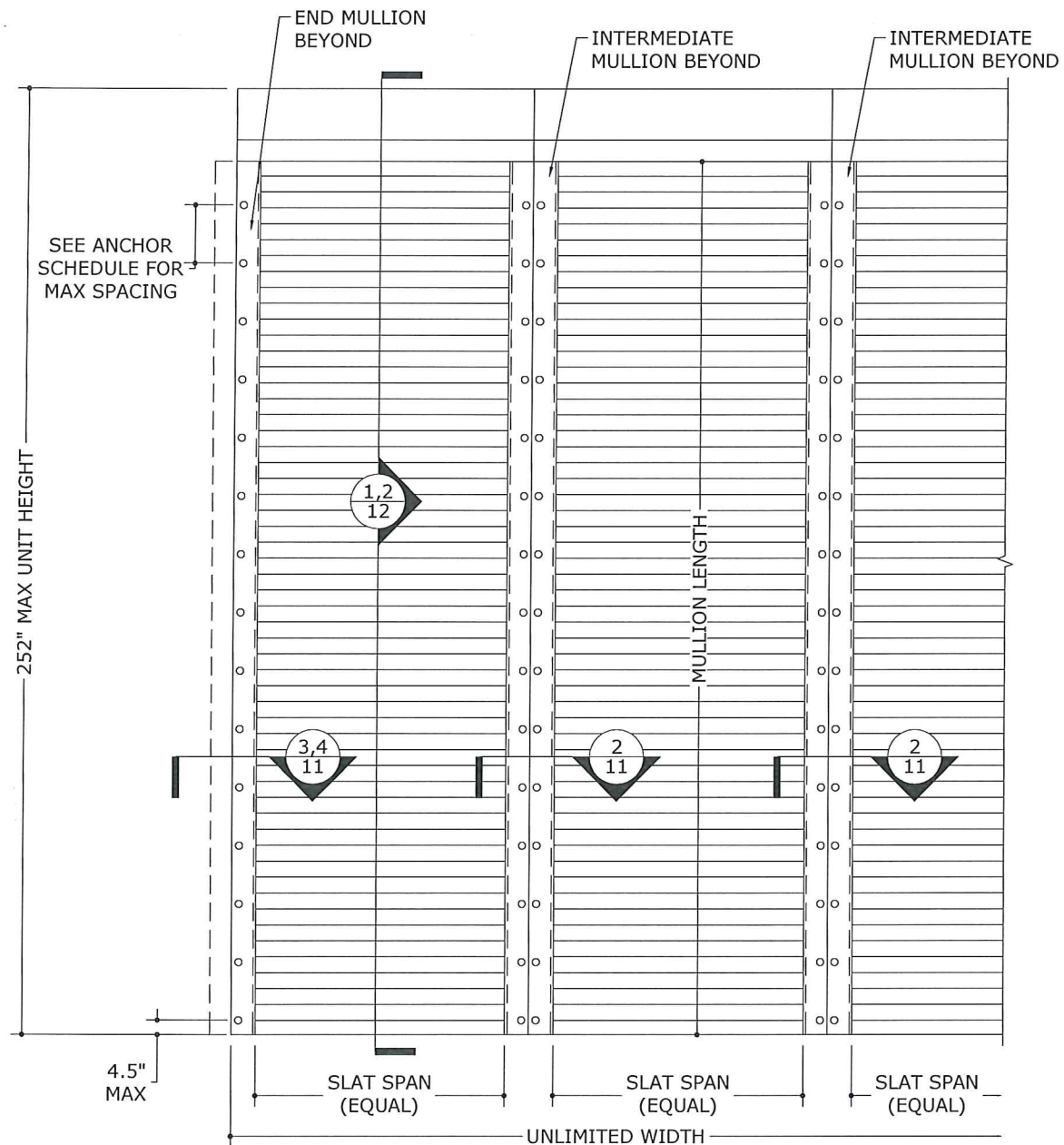
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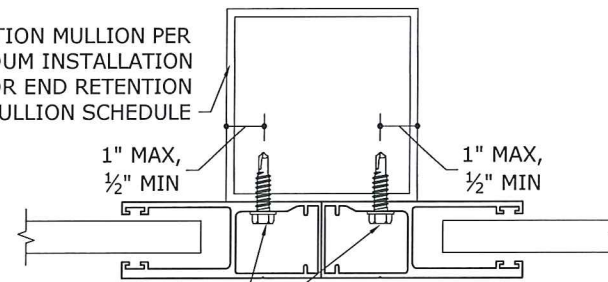
02/18/2015 - 11:11am



1
11 N.T.S. **TYPICAL SHUTTER WITH MULLIONS**
EXTERIOR ELEV

NOTE: NON-END RETENTION MULLIONS PER ADDENDUM INSTALLATION INSTRUCTIONS. END RETENTION MULLIONS PER MULLION SCHEDULES.

NON-END RETENTION MULLION PER ADDENDUM INSTALLATION INSTRUCTIONS, OR END RETENTION MULLION PER MULLION SCHEDULE

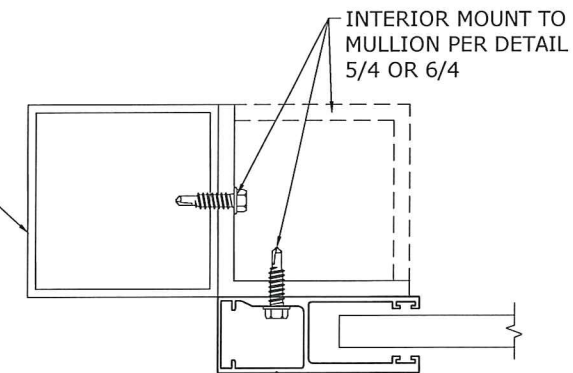


WALL MOUNT ANCHORS PER ANCHOR SCHEDULE

NOTE: NON-END RETENTION SHUTTER SHOWN HERE. END RETENTION SHUTTER WALL MOUNT TO MULLION SIMILAR, SEE DETAIL 2/4.

2
11 N.T.S. **WALL MOUNT TO INTERMEDIATE MULLION**
HORIZ SECTION

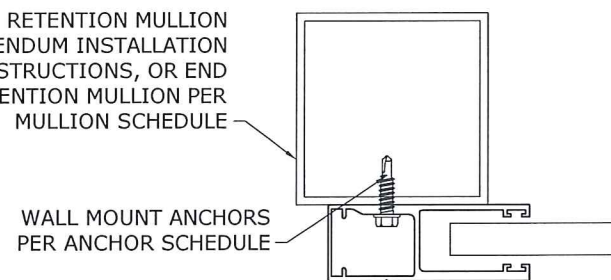
NON-END RETENTION MULLION PER ADDENDUM INSTALLATION INSTRUCTIONS, OR END RETENTION MULLION PER MULLION SCHEDULE



NOTE: NON-END RETENTION SHUTTER SHOWN HERE. END RETENTION SHUTTER INTERIOR MOUNT TO MULLION SIMILAR, SEE DETAIL 6/4.

3
11 N.T.S. **INTERIOR MOUNT TO END MULLION**
HORIZ SECTION

NON-END RETENTION MULLION PER ADDENDUM INSTALLATION INSTRUCTIONS, OR END RETENTION MULLION PER MULLION SCHEDULE



NOTE: NON-END RETENTION SHUTTER SHOWN HERE. END RETENTION SHUTTER WALL MOUNT TO MULLION SIMILAR, SEE DETAIL 2/4.

4
11 N.T.S. **WALL MOUNT TO END MULLION**
HORIZ SECTION

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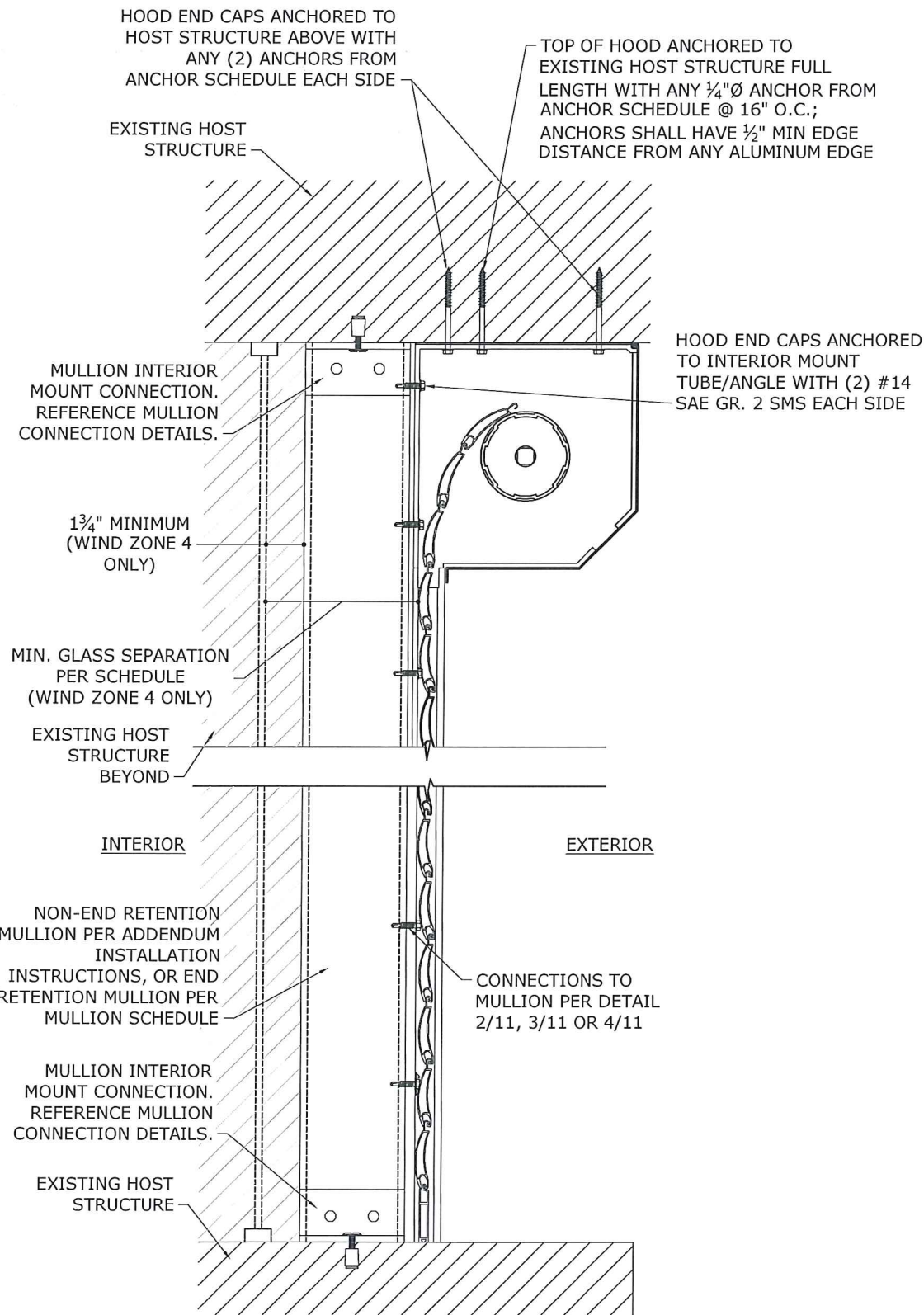
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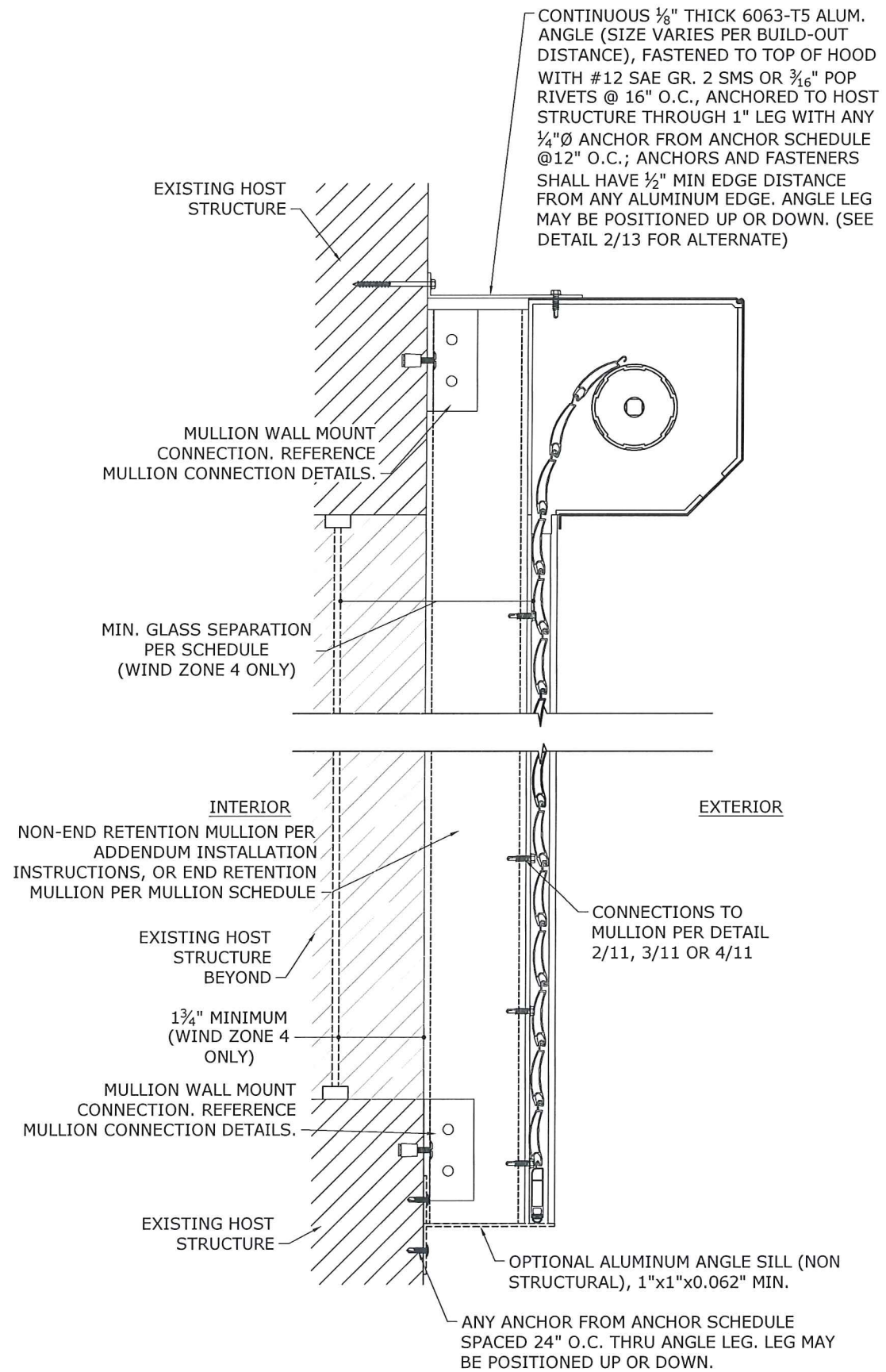
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1 MULLION INTERIOR MOUNT
12 N.T.S. VERT SECTION



2 MULLION WALL MOUNT
12 N.T.S. VERT SECTION

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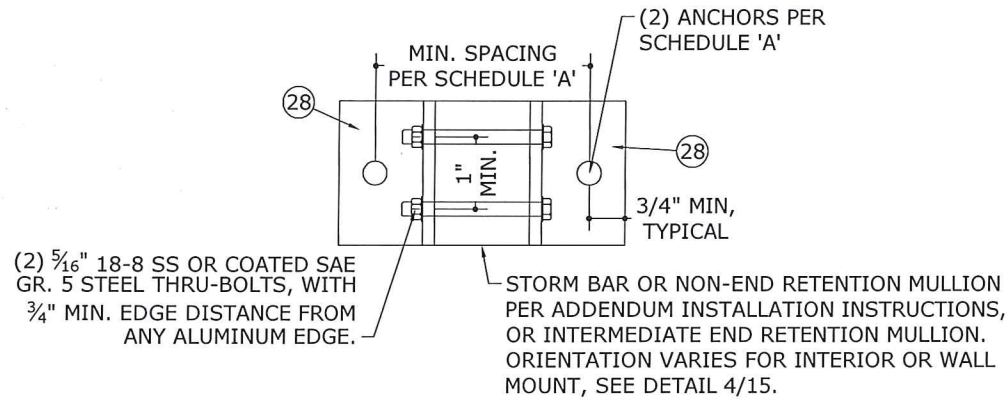
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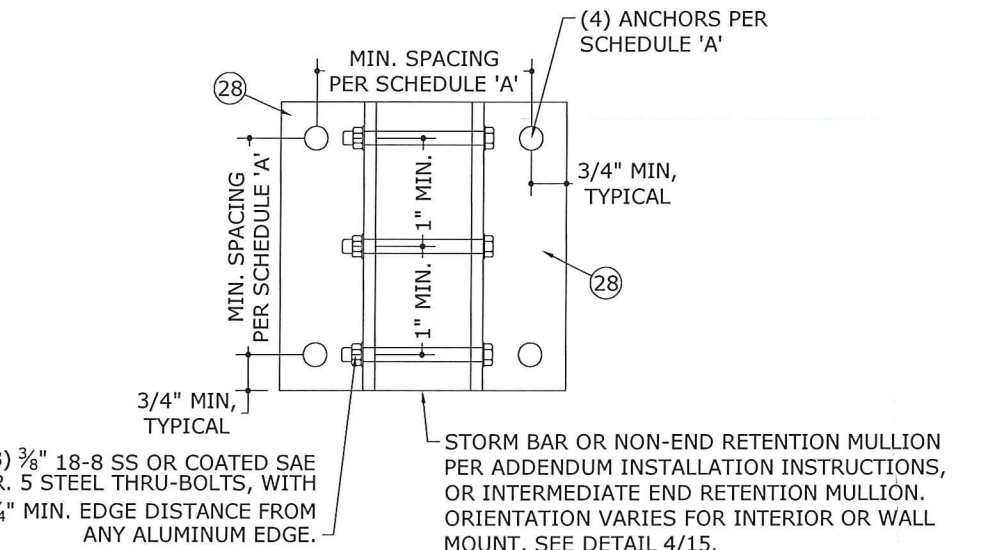
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STORM BAR, NON-END RETENTION MULLION, AND INTERMEDIATE END RETENTION MULLION CONNECTION DETAILS



1 INTERIOR OR WALL MOUNT
15 N.T.S.



2 INTERIOR OR WALL MOUNT
15 N.T.S.

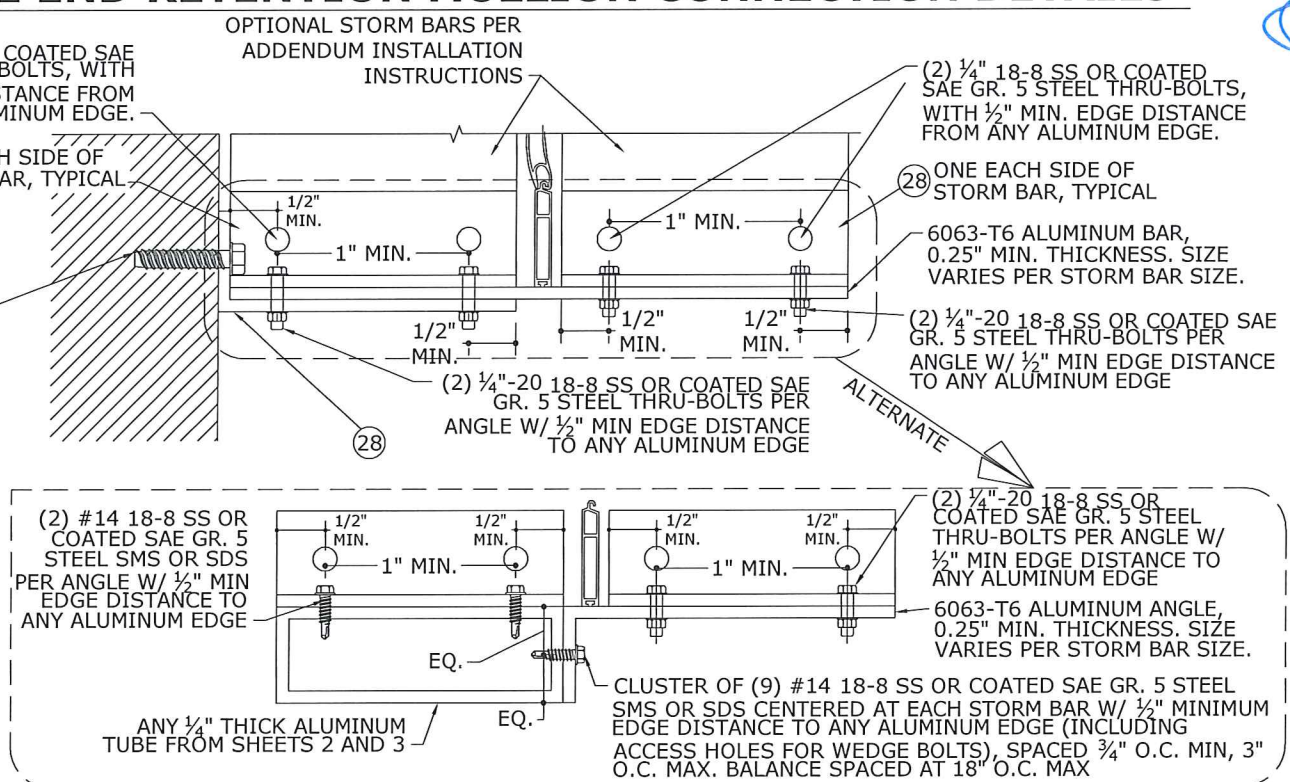
ANCHOR NOTES:

1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
2. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
3. ANCHOR SCHEDULE APPLIES TO ALL PRODUCTS CERTIFIED HEREIN.
4. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
5. MACHINE SCREWS SHALL HAVE MINIMUM OF 5/8" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD ("SIDEWALK BOLT") U.N.O.
6. * ANCHOR SHALL PENETRATE THROUGH FACE SHELL INTO GROUTED CELL.

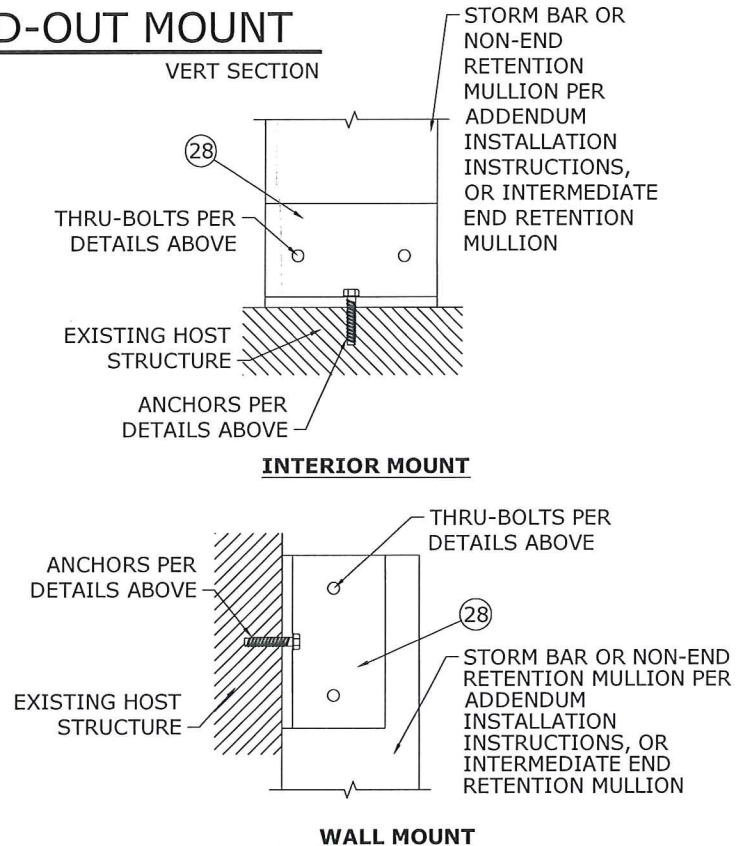
SCHEDULE 'A'

ANCHOR TYPE	MINIMUM SPACING	MINIMUM EDGE DISTANCE	CONNECTION DETAIL	MOUNTING CONDITION	CONNECTION CAPACITY
3/8" POWERS WEDGE BOLTS W/ 3-1/2" EMBED TO 3KSI MIN. CONCRETE	4.5"	4.5"	1/13	WALL MOUNT	4332 LB
			2/13	INTERIOR MOUNT	3065 LB
3/8" POWERS STEEL DROPIN W/ 1-9/16" EMBED TO 3KSI MIN. CONCRETE	4.5"	5.25"	1/13	WALL MOUNT	8820 LB
			2/13	INTERIOR MOUNT	6130 LB
3/8" POWERS WEDGE BOLTS W/ 3-1/2" EMBED TO GROUT-FILLED CONCRETE BLOCK*	6.0"	12.0"	1/13	WALL MOUNT	1590 LB
			2/13	INTERIOR MOUNT	2290 LB
5/16" ITW TAPCON XL OR ELCO ULTRACON W/ 2-1/4" MIN. EMBED TO 3.5KSI MIN. CONCRETE	5.0"	3.125"	1/13	WALL MOUNT	3180 LB
			2/13	INTERIOR MOUNT	4580 LB
5/16" ITW TAPCON XL OR ELCO ULTRACON W/ 2-1/4" MIN. EMBED TO GROUT-FILLED CONCRETE BLOCK	5.0"	3.125"	1/13	WALL MOUNT	2580 LB
			2/13	INTERIOR MOUNT	2200 LB
5/16" LAG SCREW W/ 2" MIN. THREAD PENETRATION TO G=0.42 MIN WOOD	2.0"	1.25"	1/13	WALL MOUNT	5160 LB
			2/13	INTERIOR MOUNT	4400 LB
			1/13	WALL MOUNT	1576 LB
			2/13	INTERIOR MOUNT	1702 LB
			1/13	WALL MOUNT	3152 LB
			2/13	INTERIOR MOUNT	3404 LB
			1/13	WALL MOUNT	584 LB
			2/13	INTERIOR MOUNT	744 LB
			1/13	WALL MOUNT	1168 LB
			2/13	INTERIOR MOUNT	1488 LB
			1/13	WALL MOUNT	1310 LB
			2/13	INTERIOR MOUNT	302 LB
			1/13	WALL MOUNT	2620 LB
			2/13	INTERIOR MOUNT	604 LB

- CLUSTER OF (4) 3/8" POWERS WEDGE BOLTS AT CENTERED EACH STORM BAR W/ 3/2" MIN. EMBED, 3" MIN. EDGE DISTANCE, AND 4 1/2" SPACING TO 3KSI MIN. CONCRETE. BALANCE SPACED AT 18" O.C. MAX
- CLUSTER OF (4) 5/16" ITW TAPCONS AT CENTERED EACH STORM BAR W/ 2-1/4" MIN. EMBED, 4" MIN. EDGE DISTANCE, AND 4" SPACING TO GROUT-FILLED CONCRETE BLOCK. BALANCE SPACED AT 18" O.C. MAX
- CLUSTER OF (4) 5/16" LAG SCREWS AT CENTERED EACH STORM BAR W/ 2" MIN. THREAD PENETRATION, 1-1/4" MIN. EDGE DISTANCE, AND 2" SPACING TO G=0.42 MIN. WOOD. BALANCE SPACED AT 18" O.C. MAX



3 STORM BAR BUILD-OUT MOUNT
15 N.T.S.



4 MOUNTING CONDITIONS
15 N.T.S.

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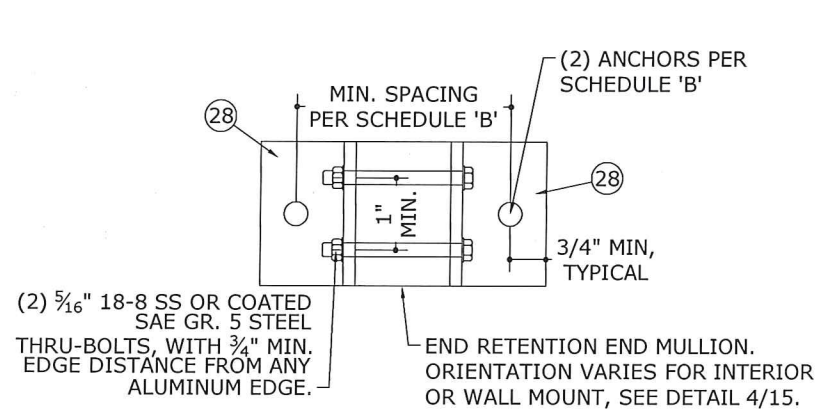
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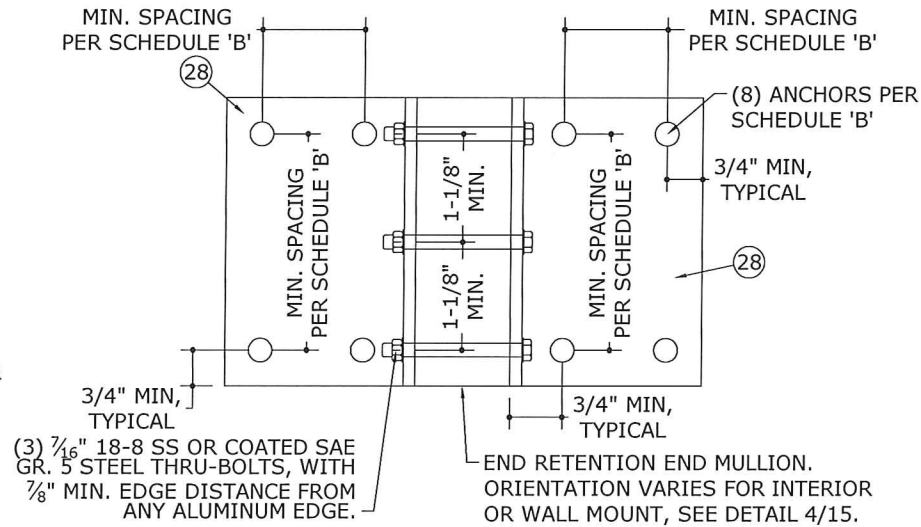
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END RETENTION END MULLION CONNECTION DETAILS



1 INTERIOR OR WALL MOUNT
16 N.T.S.



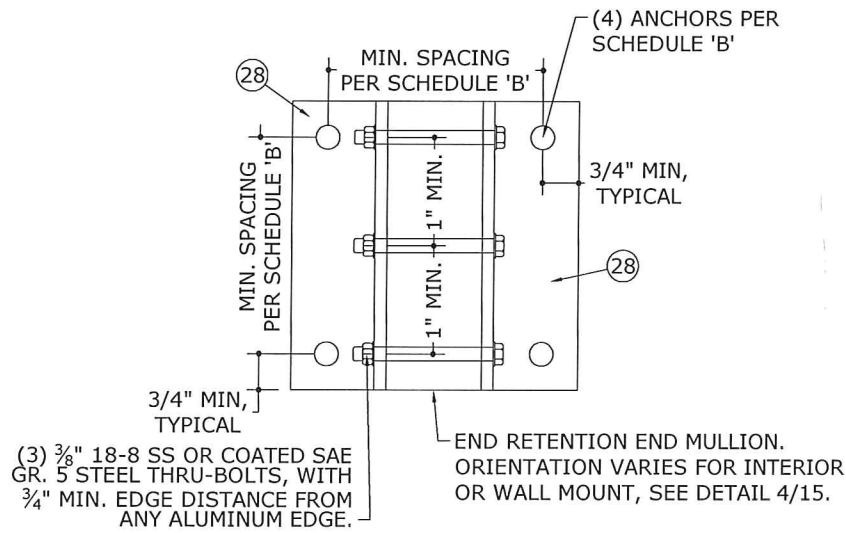
3 INTERIOR OR WALL MOUNT
16 N.T.S.

SCHEDULE 'B'

ANCHOR TYPE	MINIMUM SPACING	MINIMUM EDGE DISTANCE	CONNECTION DETAIL	CONNECTION CAPACITY	
				Tcap	Vcap
3/8" POWERS WEDGE BOLTS W/ 3-1/2" EMBED TO 3KSI MIN. CONCRETE	4.5"	4.5"	1/16	4332 LB	
			2/16	3065 LB	8820 LB
	2.5"	4.5"	3/16	11819 LB	6130 LB
			2/16	10176 LB	
3/8" POWERS STEEL DROPIN W/ 1-9/16" EMBED TO 3KSI MIN. CONCRETE	4.5"	5.25"	1/16	1590 LB	
			2/16	2290 LB	3180 LB
	2.5"	5.25"	3/16	3689 LB	4580 LB
			2/16	5313 LB	
3/8" POWERS WEDGE BOLTS W/ 3-1/2" EMBED TO GROUT-FILLED CONCRETE BLOCK*	6.0"	12.0"	1/16	2580 LB	
			2/16	2200 LB	5160 LB
	2.5"	12.0"	3/16	4400 LB	
			2/16	4400 LB	
5/16" ITW TAPCON XL OR ELCO ULTRACON W/ 2-1/4" MIN. EMBED TO 3.5KSI MIN. CONCRETE	5.0"	3.125"	1/16	1576 LB	
			2/16	1702 LB	3152 LB
	5.0"	3.125"	1/16	584 LB	
			2/16	744 LB	1168 LB
5/16" ITW TAPCON XL OR ELCO ULTRACON W/ 2-1/4" MIN. EMBED TO GROUT-FILLED CONCRETE BLOCK	5.0"	3.125"	1/16	1310 LB	
			2/16	302 LB	2620 LB
	2.0"	1.25"	1/16	1310 LB	
			2/16	604 LB	

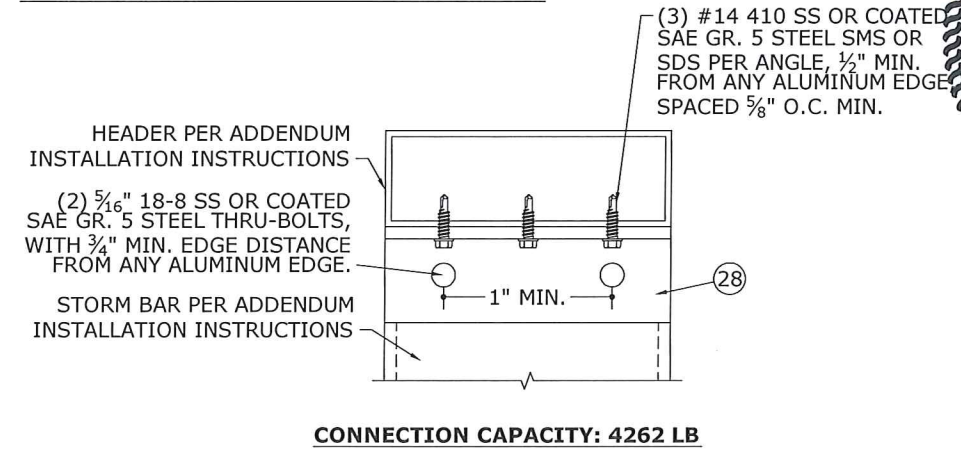
SCHEDULE 'B' NOTES:

- FOR INTERIOR MOUNT CONDITIONS WITH END RETENTION END MULLIONS, 'Rsum' VALUES IN MULLION SCHEDULE SHALL NOT EXCEED MAX 'Vcap' VALUES NOTED IN SCHEDULE 'B'.
- FOR WALL MOUNT CONDITIONS WITH END RETENTION END MULLIONS, $R_v/V_{cap} + R_t/T_{cap}$ SHALL BE LESS THAN OR EQUAL TO 1.0, WHERE 'Rv' AND 'Rt' ARE PER MULLION SCHEDULES, AND 'Tcap' AND 'Vcap' ARE PER SCHEDULE 'B'.
- * ANCHOR SHALL PENETRATE THROUGH FACE SHELL INTO GROUTED CELL.

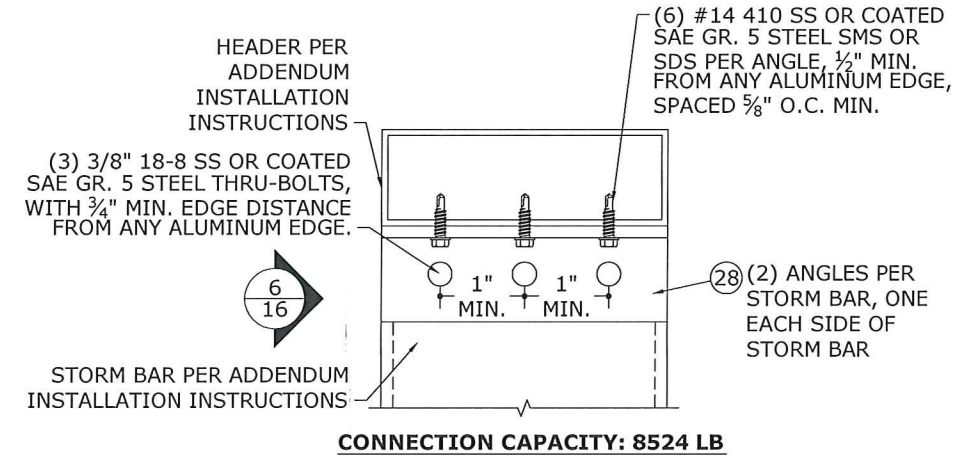


2 INTERIOR OR WALL MOUNT
16 N.T.S.

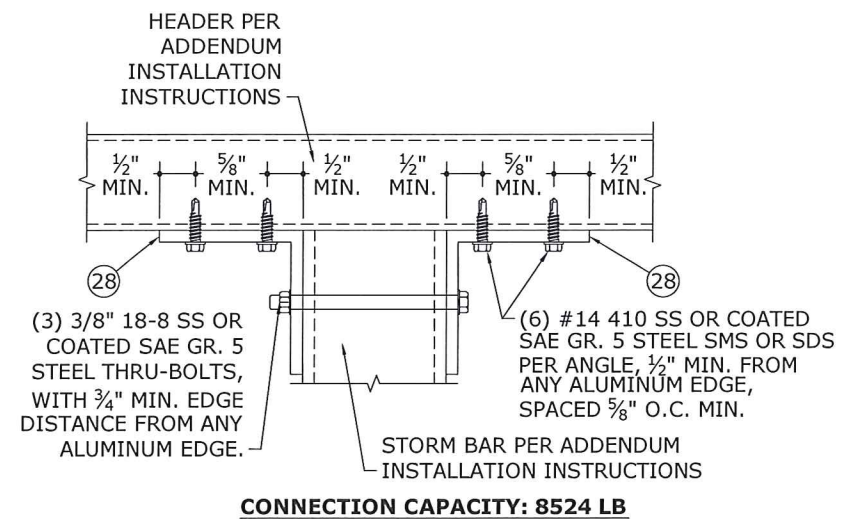
STORM BAR TO HEADER CONNECTION DETAILS



4 STORM BAR TO HEADER
16 N.T.S. VERT SECTION



5 STORM BAR TO HEADER
16 N.T.S. VERT SECTION



6 STORM BAR TO HEADER
16 N.T.S. VERT SECTION

STATE OF TEXAS
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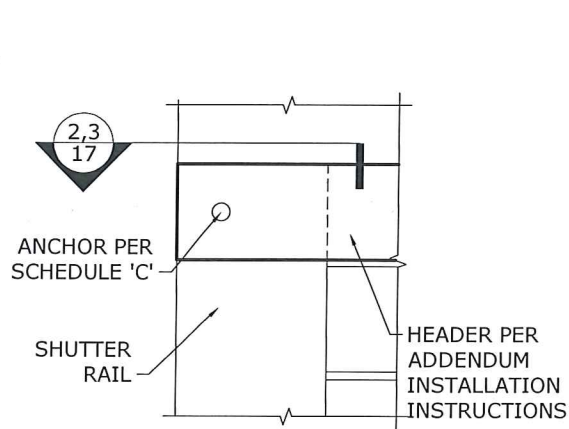
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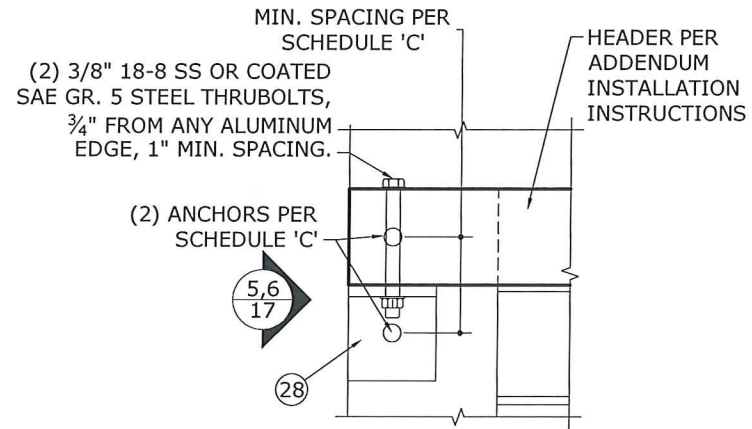
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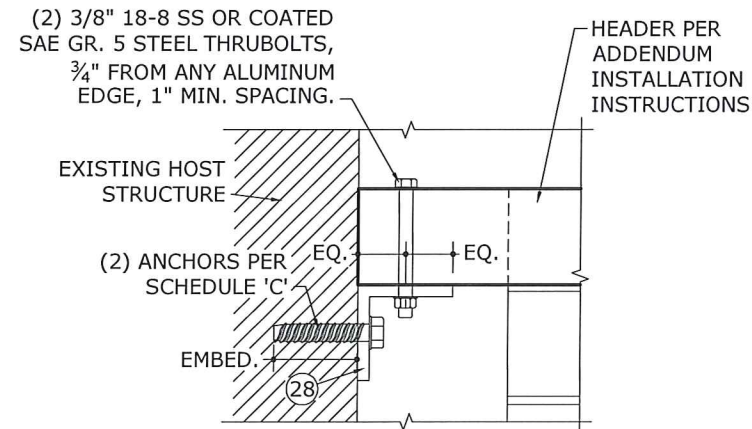
HEADER CONNECTION DETAILS



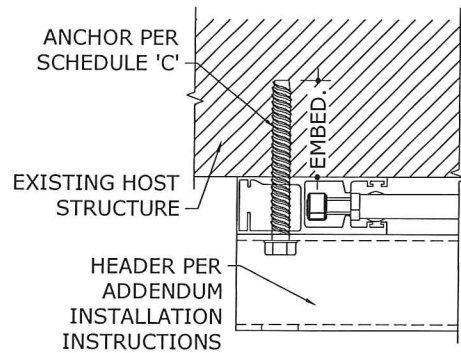
1 BUILD-OUT & WALL MOUNT
17 N.T.S. ELEV



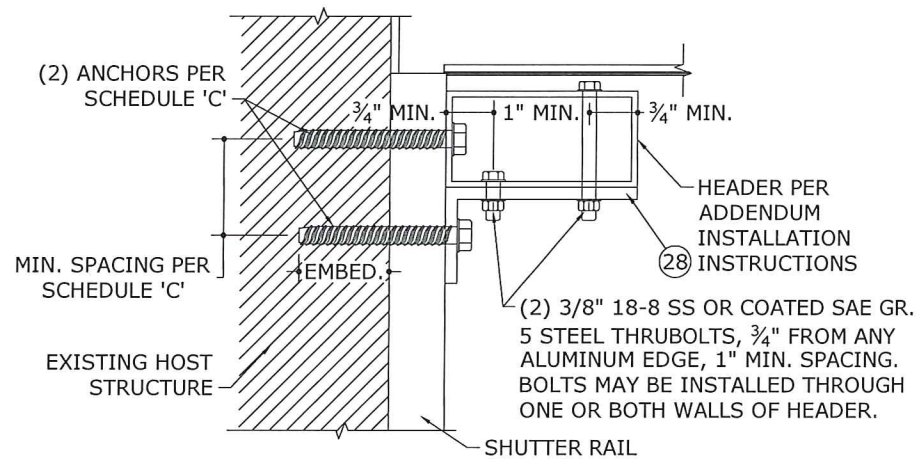
4 BUILD-OUT & WALL MOUNT
17 N.T.S. ELEV



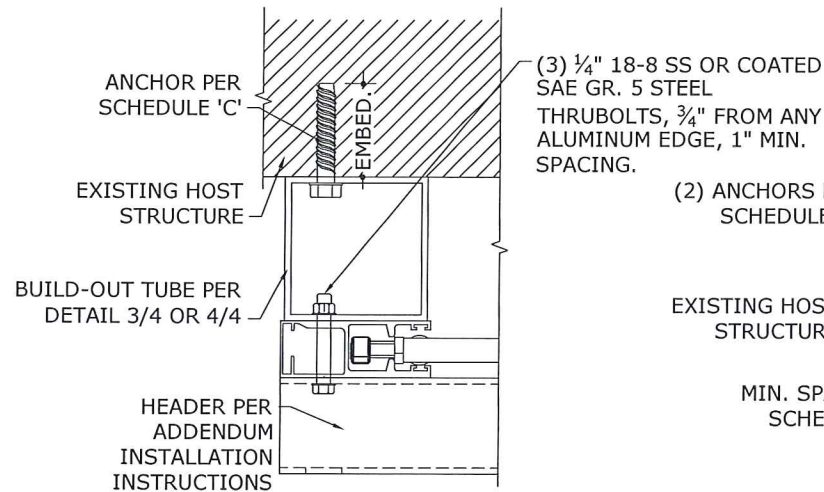
7 INTERIOR MOUNT
17 N.T.S. ELEV



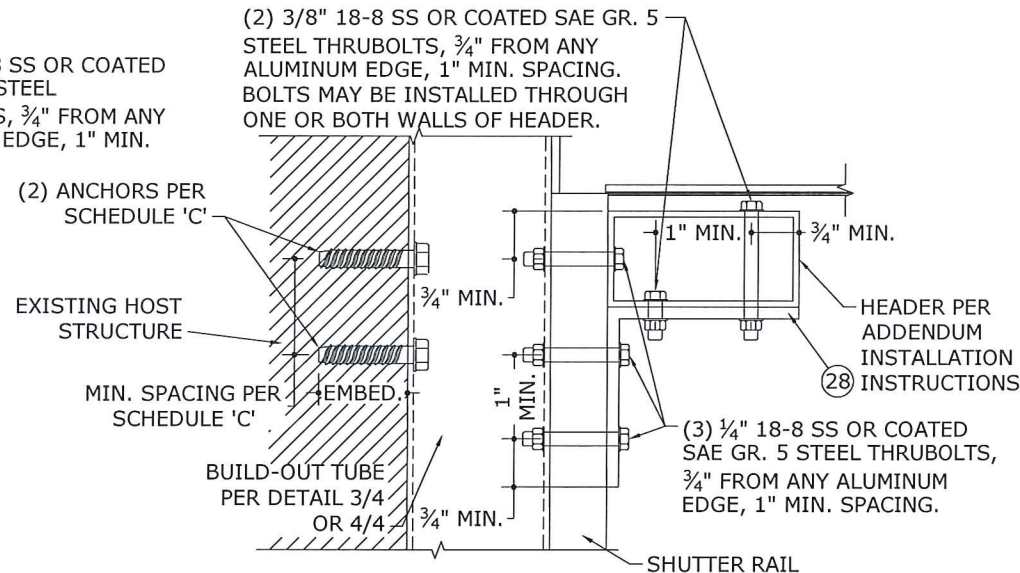
2 WALL MOUNT
17 N.T.S. HORIZ SECTION



5 WALL MOUNT
17 N.T.S. VERT SECTION



3 BUILD-OUT MOUNT
17 N.T.S. HORIZ SECTION



6 BUILD-OUT MOUNT
17 N.T.S. VERT SECTION

SCHEDULE 'C'

ANCHOR TYPE	MINIMUM SPACING	MINIMUM EDGE DISTANCE	MOUNTING CONDITION	NUMBER OF ANCHORS	CONNECTION CAPACITY
3/8" POWERS WEDGE BOLTS W/ 3-1/2" EMBED TO 3KSI MIN. CONCRETE	4.5"	4.5"	BUILD-OUT OR WALL MOUNT	1	2205 LB
			INTERIOR MOUNT	2	3093 LB
	2.5"	4.5"	BUILD-OUT OR WALL MOUNT	1	1533 LB
			INTERIOR MOUNT	2	3065 LB
3/8" POWERS WEDGE BOLTS W/ 3-1/2" EMBED TO GROUT-FILLED CONCRETE BLOCK*	6.0"	12.0"	BUILD-OUT OR WALL MOUNT	1	1477 LB
			INTERIOR MOUNT	2	2955 LB
	2.5"	4.5"	BUILD-OUT OR WALL MOUNT	1	1272 LB
			INTERIOR MOUNT	2	2544 LB
3/8" POWERS STEEL DROPIN W/ 1-9/16" EMBED TO 3KSI MIN. CONCRETE	4.5"	5.25"	BUILD-OUT OR WALL MOUNT	1	1290 LB
			INTERIOR MOUNT	2	2580 LB
	2.5"	5.25"	BUILD-OUT OR WALL MOUNT	1	1100 LB
			INTERIOR MOUNT	2	2200 LB
5/16" ITW TAPCON XL OR ELCO ULTRACON W/ 2-1/4" MIN. EMBED TO 3.5KSI MIN. CONCRETE	4.5"	5.25"	BUILD-OUT OR WALL MOUNT	1	795 LB
			INTERIOR MOUNT	2	1590 LB
	2.5"	5.25"	BUILD-OUT OR WALL MOUNT	1	1145 LB
			INTERIOR MOUNT	2	2290 LB
5/16" ITW TAPCON XL OR ELCO ULTRACON W/ 2-1/4" MIN. EMBED TO GROUT-FILLED CONCRETE BLOCK	5.0"	4.0"	BUILD-OUT OR WALL MOUNT	1	461 LB
			INTERIOR MOUNT	2	922 LB
	5.0"	3.125"	BUILD-OUT OR WALL MOUNT	1	664 LB
			INTERIOR MOUNT	2	1328 LB
5/16" LAG SCREW W/ 2" MIN. THREAD PENETRATION TO G=0.42 MIN WOOD	5.0"	4.0"	BUILD-OUT OR WALL MOUNT	1	788 LB
			INTERIOR MOUNT	2	1576 LB
	2.0"	1.25"	BUILD-OUT OR WALL MOUNT	1	851 LB
			INTERIOR MOUNT	2	1702 LB
5/16" LAG SCREW W/ 2" MIN. THREAD PENETRATION TO G=0.42 MIN WOOD	5.0"	3.125"	BUILD-OUT OR WALL MOUNT	1	292 LB
			INTERIOR MOUNT	2	584 LB
	2.0"	1.25"	BUILD-OUT OR WALL MOUNT	1	372 LB
			INTERIOR MOUNT	2	744 LB
5/16" LAG SCREW W/ 2" MIN. THREAD PENETRATION TO G=0.42 MIN WOOD	5.0"	3.125"	BUILD-OUT OR WALL MOUNT	1	655 LB
			INTERIOR MOUNT	2	1311 LB
	2.0"	1.25"	BUILD-OUT OR WALL MOUNT	1	151 LB
			INTERIOR MOUNT	2	301 LB

- NOTES:**
- ALL ANCHORS SHALL BE 3/4" MINIMUM FROM ANY ALUMINUM EDGE.
 - * ANCHOR SHALL PENETRATE THROUGH FACE SHELL INTO GROUTED CELL

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 02/18/2015
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REMARKS	DRWN	CHKD	DATE
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