

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	09/26/18	R.L.
B	REVISED ANCHORS	05/06/2022	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING, METAL FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. THESE INSTALLATION INSTRUCTIONS ARE FOR THE MUHLER STORM TRIM SYSTEM ONLY. FENESTRATION OR OTHER PROTECTIVE SYSTEMS MUST HAVE THEIR OWN SEPARATE APPROVAL.
4. STORM TRIM SYSTEM MUST BE INSTALLED AS SHOWN HEREIN AND IN ACCORDANCE WITH THE MANUFACTURER’S INSTALLATION INSTRUCTIONS.
5. SELECTION OF FENESTRATION AND PROTECTIVE SYSTEMS IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
6. STORM TRIM SYSTEM IS IMPACT RATED AND DOES NOT REQUIRE IMPACT PROTECTION IN WIND BORNE DEBRIS REGIONS.
7. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
8. STORM TRIM MATERIAL: EXTRUDED RIGID PVC.
9. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE OR ROOFING NAILS (11 GA MIN) WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
10. FOR ANCHORING INTO METAL STRUCTURE USE #10 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16” TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
12. FOR ANCHORING THROUGH STUDDED ANGLE INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 1 3/8” MINIMUM EMBEDMENT OR ROOFING NAILS (11 GA MIN) WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
13. FOR ANCHORING THROUGH STUDDED ANGLE INTO METAL STRUCTURE USE #14 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
13. FOR ANCHORING THROUGH STUDDED ANGLE INTO MASONRY/CONCRETE USE 1/4” TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. ALL FASTENERS TO BE CORROSION RESISTANT.
15. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER’S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:

A. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42

B. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.

C. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000 PSI MINIMUM.

B. METAL STRUCTURE: STEEL 18GA (.048”) FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .048” THICK MINIMUM

SIGNED: 09/21/2026

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THE MUHLER COMPANY
630 SKYLARK DRIVE SUITE U
CHARLESTON , SC 29407

STORM TRIM PLUS
LARGE AND SMALL MISSILE IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08-03209

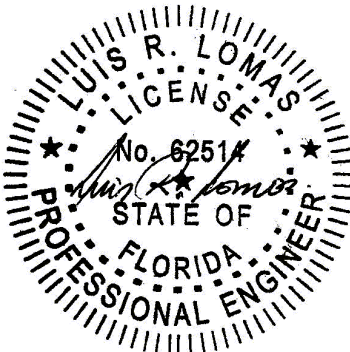
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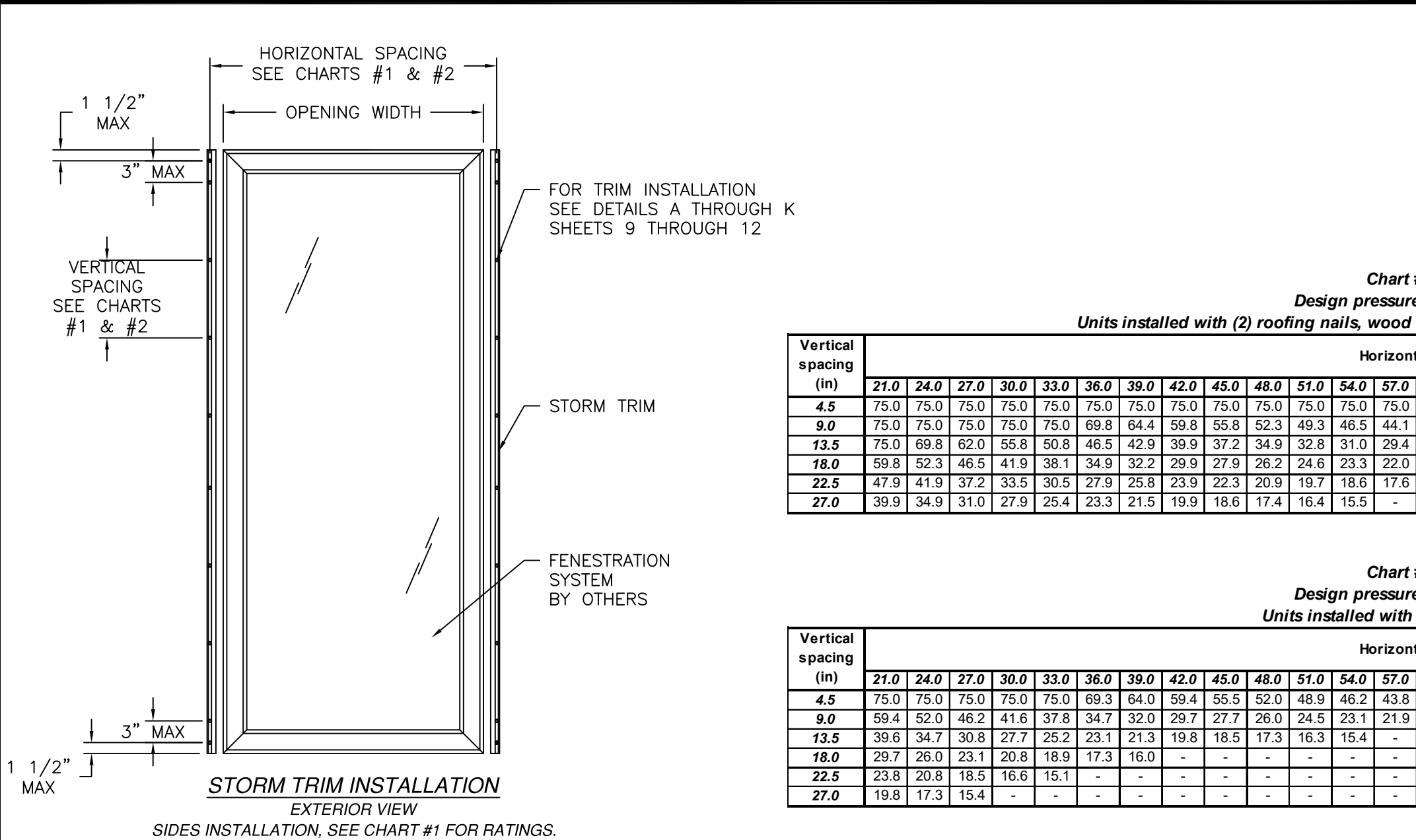
DATE 11/14/17

SHEET 1 OF 18

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Luis R. Lomas P.E.
FL No.: 62514



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REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	09/26/18	R.L.
B	REVISED ANCHORS	05/06/2022	R.L.

Chart #1
Design pressure chart (psf)
Units installed with (2) roofing nails, wood screw, metal screw or masonry anchor

Vertical spacing (in)	Horizontal spacing (in)																							
	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0	90.0
4.5	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	72.8	69.8	67.0	64.4	62.0	59.8	57.8	55.8
9.0	75.0	75.0	75.0	75.0	75.0	69.8	64.4	59.8	55.8	52.3	49.3	46.5	44.1	41.9	39.9	38.1	36.4	34.9	33.5	32.2	31.0	29.9	28.9	27.9
13.5	75.0	69.8	62.0	55.8	50.8	46.5	42.9	39.9	37.2	34.9	32.8	31.0	29.4	27.9	26.6	25.4	24.3	23.3	22.3	21.5	20.7	19.9	19.3	18.6
18.0	59.8	52.3	46.5	41.9	38.1	34.9	32.2	29.9	27.9	26.2	24.6	23.3	22.0	20.9	19.9	19.0	18.2	17.4	16.7	16.1	15.5	-	-	-
22.5	47.9	41.9	37.2	33.5	30.5	27.9	25.8	23.9	22.3	20.9	19.7	18.6	17.6	16.7	16.0	15.2	-	-	-	-	-	-	-	-
27.0	39.9	34.9	31.0	27.9	25.4	23.3	21.5	19.9	18.6	17.4	16.4	15.5	-	-	-	-	-	-	-	-	-	-	-	-

Chart #2
Design pressure chart (psf)
Units installed with (1) roofing nail

Vertical spacing (in)	Horizontal spacing (in)																							
	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0	90.0
4.5	75.0	75.0	75.0	75.0	75.0	69.3	64.0	59.4	55.5	52.0	48.9	46.2	43.8	41.6	39.6	37.8	36.2	34.7	33.3	32.0	30.8	29.7	28.7	27.7
9.0	59.4	52.0	46.2	41.6	37.8	34.7	32.0	29.7	27.7	26.0	24.5	23.1	21.9	20.8	19.8	18.9	18.1	17.3	16.6	16.0	15.4	-	-	-
13.5	39.6	34.7	30.8	27.7	25.2	23.1	21.3	19.8	18.5	17.3	16.3	15.4	-	-	-	-	-	-	-	-	-	-	-	-
18.0	29.7	26.0	23.1	20.8	18.9	17.3	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22.5	23.8	20.8	18.5	16.6	15.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27.0	19.8	17.3	15.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

STORM TRIM INSTALLATION

EXTERIOR VIEW

SIDES INSTALLATION, SEE CHART #1 FOR RATINGS.

SIGNED: 09/21/2026

THE MUHLER COMPANY
630 SKYLARK DRIVE SUITE U
CHARLESTON , SC 29407

STORM TRIM PLUS
LARGE AND SMALL MISSILE IMPACT
ELEVATION TWO SIDES INSTALLATION

DRAWN:
A.R.

DWG NO.
08-03209

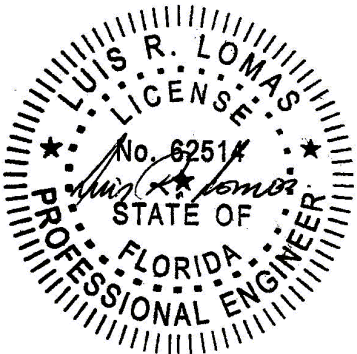
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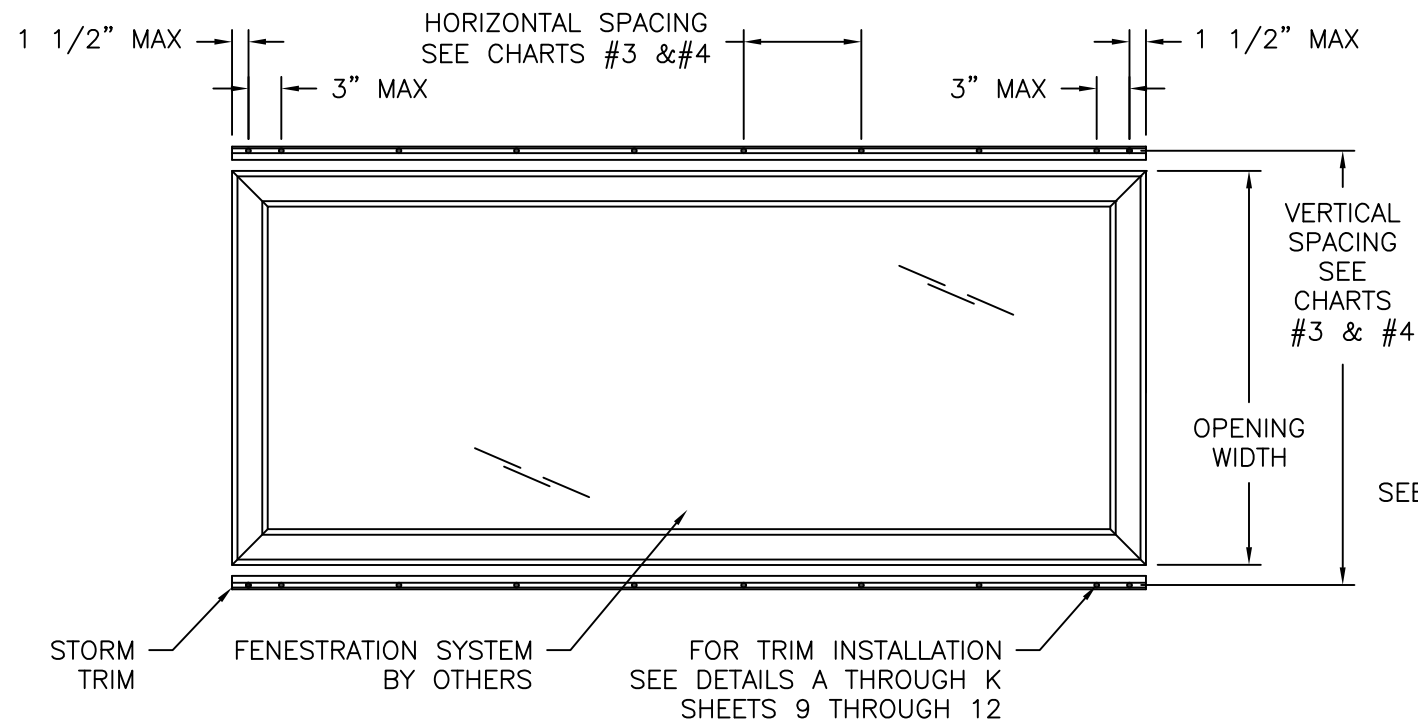
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11/14/17

SHEET
2 OF 18

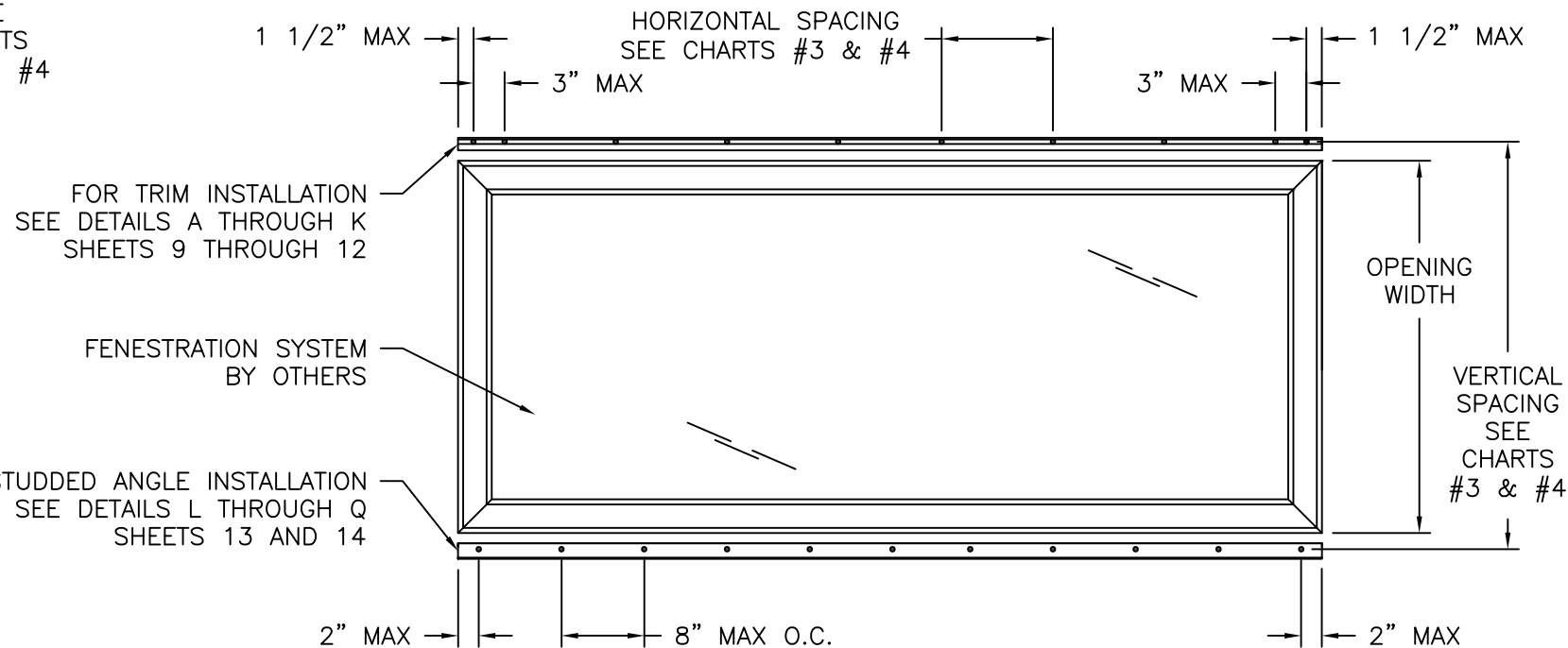
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STORM TRIM INSTALLATION
EXTERIOR VIEW
HEAD AND SILL INSTALLATION, SEE CHART #2 FOR RATINGS.



STORM TRIM W/STUDED ANGLE INSTALLATION
EXTERIOR VIEW
HEAD AND SILL INSTALLATION, SEE CHART #2 FOR RATINGS.

Chart #3
Design pressure chart (psf)
Units installed with (2) roofing nails, wood screw, metal screw or masonry anchor

Horizontal spacing (in)	Vertical spacing (in)																											
	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0	90.0	93.0	96.0	98.0	
4.5	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	72.8	69.8	67.0	64.4	62.0	59.8	57.8	55.8	54.0	52.3	51.3	
9.0	75.0	75.0	75.0	75.0	75.0	69.8	64.4	59.8	55.8	52.3	49.3	46.5	44.1	41.9	39.9	38.1	36.4	34.9	33.5	32.2	31.0	29.9	28.9	27.9	27.0	26.2	25.6	
13.5	75.0	69.8	62.0	55.8	50.8	46.5	42.9	39.9	37.2	34.9	32.8	31.0	29.4	27.9	26.6	25.4	24.3	23.3	22.3	21.5	20.7	19.9	19.3	18.6	18.0	17.4	17.1	
18.0	59.8	52.3	46.5	41.9	38.1	34.9	32.2	29.9	27.9	26.2	24.6	23.3	22.0	20.9	19.9	19.0	18.2	17.4	16.7	16.1	15.5	-	-	-	-	-	-	
22.5	47.9	41.9	37.2	33.5	30.5	27.9	25.8	23.9	22.3	20.9	19.7	18.6	17.6	16.7	16.0	15.2	-	-	-	-	-	-	-	-	-	-	-	
27.0	39.9	34.9	31.0	27.9	25.4	23.3	21.5	19.9	18.6	17.4	16.4	15.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Chart #4
Design pressure chart (psf)
Units installed with (1) roofing nail

Horizontal spacing (in)	Vertical spacing (in)																											
	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0	90.0	93.0	96.0	98.0	
4.5	75.0	75.0	75.0	75.0	75.0	69.3	64.0	59.4	55.5	52.0	48.9	46.2	43.8	41.6	39.6	37.8	36.2	34.7	33.3	32.0	30.8	29.7	28.7	27.7	26.8	26.0	25.5	
9.0	59.4	52.0	46.2	41.6	37.8	34.7	32.0	29.7	27.7	26.0	24.5	23.1	21.9	20.8	19.8	18.9	18.1	17.3	16.6	16.0	15.4	-	-	-	-	-	-	
13.5	39.6	34.7	30.8	27.7	25.2	23.1	21.3	19.8	18.5	17.3	16.3	15.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
18.0	29.7	26.0	23.1	20.8	18.9	17.3	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22.5	23.8	20.8	18.5	16.6	15.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27.0	19.8	17.3	15.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	09/26/18	R.L.
B	REVISED ANCHORS	05/06/2022	R.L.

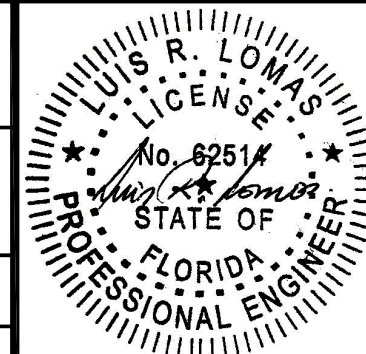
SIGNED: 09/21/2026

THE MUHLER COMPANY
630 SKYLARK DRIVE SUITE U
CHARLESTON , SC 29407

STORM TRIM PLUS
LARGE AND SMALL MISSILE IMPACT
ELEVATION TOP AND BOTTOM INSTALLATION

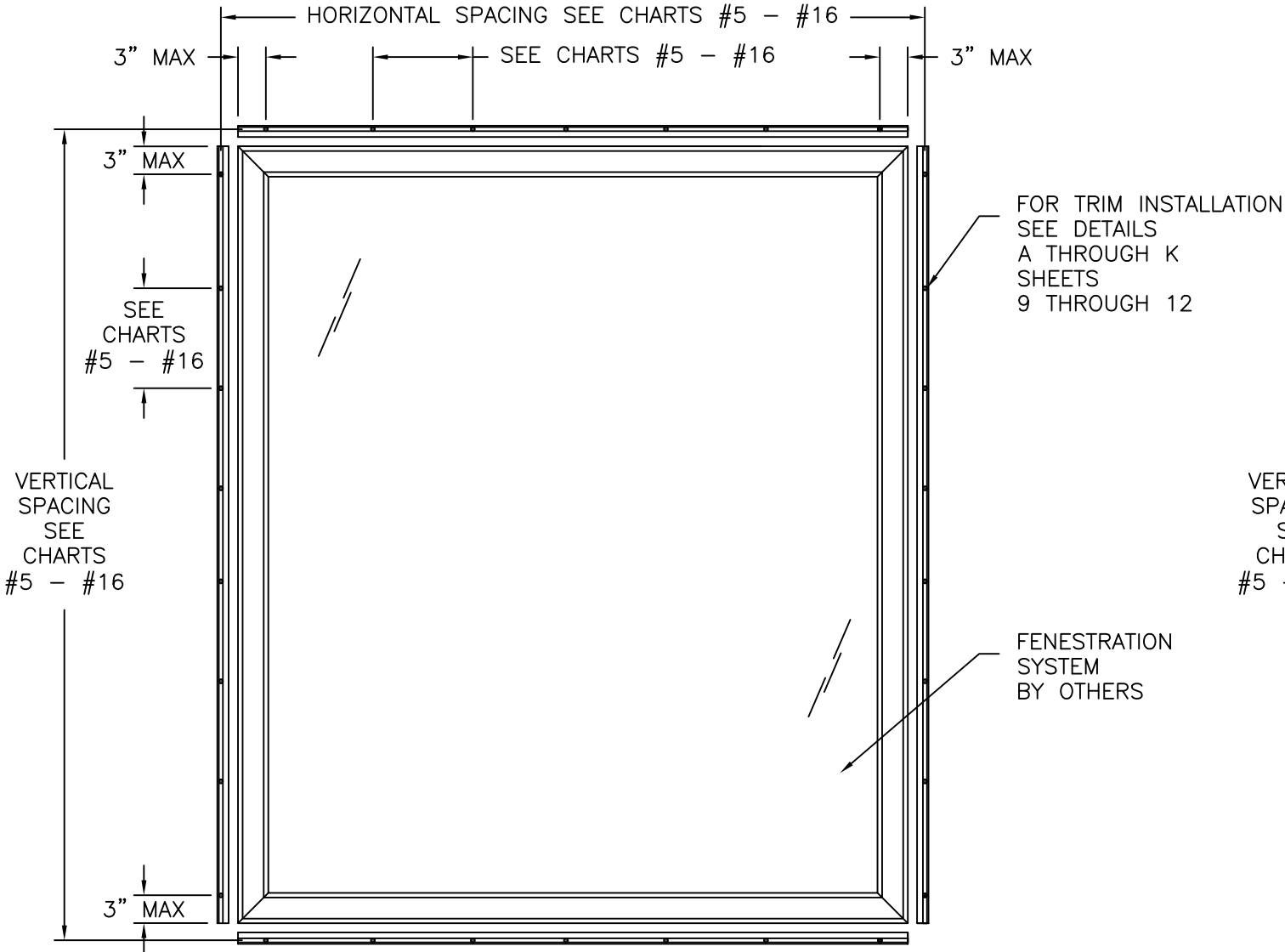
DRAWN: A.R.	DWG NO. 08-03209	REV B
SCALE NTS	DATE 11/14/17	SHEET 3 OF 18

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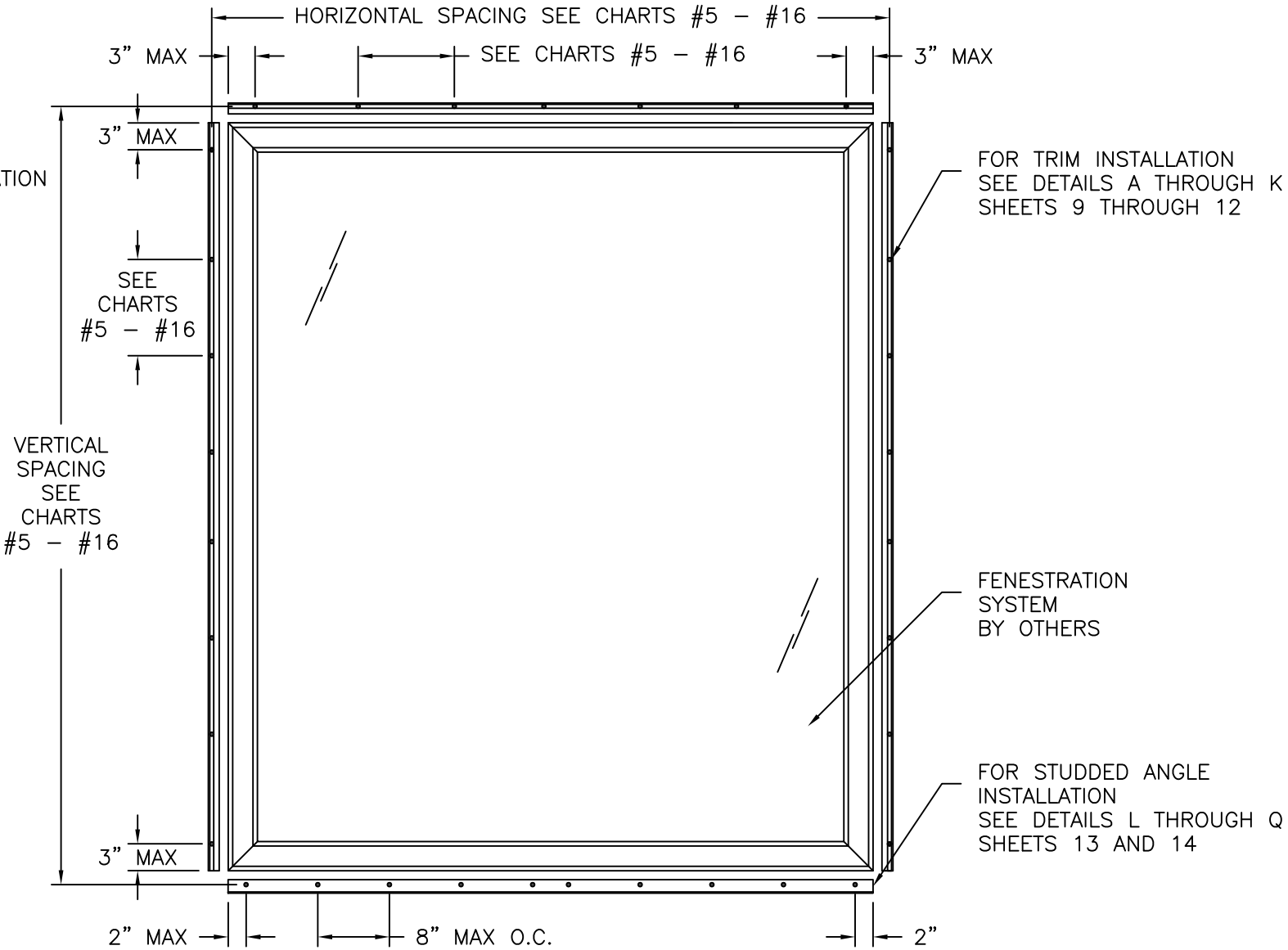


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STORM TRIM INSTALLATION
 EXTERIOR VIEW
 SEE CHARTS #3 - #8 FOR RATINGS.



STORM TRIM INSTALLATION W/STUDED ANGLE
 EXTERIOR VIEW
 SEE CHARTS #3 - #8 FOR RATINGS.

SIGNED: 09/21/2026

THE MUHLER COMPANY

630 SKYLARK DRIVE SUITE U
CHARLESTON , SC 29407

STORM TRIM PLUS

LARGE AND SMALL MISSILE IMPACT

ELEVATION FOUR SIDES INSTALLATION

DRAWN: A.R.

DWG NO. 08-03209

REV B

SCALE NTS

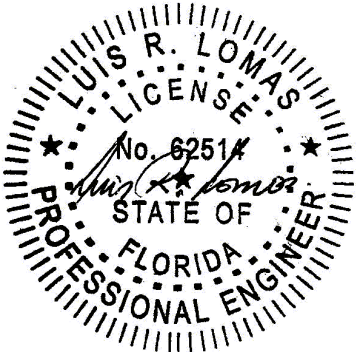
DATE 11/14/17

SHEET 4 OF 18

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Luis R. Lomas P.E.
 FL No.: 62514

CHART #5
Design pressure chart (psf)
Units installed with (2) roofing nails, wood screw, metal screw or masonry anchor
Locate anchors 3" from each end and 4 1/2" max O.C. thereafter

Vertical spacing (in)	Horizontal spacing (in)																
	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	102.0	108.0	114.0	120.0	126.0	132.0	138.0	144.0
48.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
54.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
60.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
66.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
72.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
78.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
84.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
90.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
96.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
102.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
108.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	74.4
114.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	73.0
120.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	74.9	71.8
126.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	74.2	70.9
132.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	73.8	70.3
138.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	74.9	74.2	73.8	73.6	69.9
144.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	74.4	73.0	71.8	70.9	70.3	69.9	69.8

CHART #6
Design pressure chart (psf)
Units installed with (1) roofing nail
Locate anchors 3" from each end and 4 1/2" max O.C. thereafter

Vertical spacing (in)	Horizontal spacing (in)																
	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	102.0	108.0	114.0	120.0	126.0	132.0	138.0	144.0
48.00	75.0	75.0	75.0	75.0	75.0	73.7	73.7	70.9	68.3	68.3	66.9	65.0	65.0	64.2	62.8	62.8	62.4
54.00	75.0	75.0	75.0	75.0	74.0	69.3	69.3	66.0	63.3	63.3	61.6	59.8	59.8	58.8	57.4	57.4	56.9
60.00	75.0	75.0	75.0	75.0	71.3	66.3	65.9	62.4	59.6	59.6	57.6	55.7	55.7	54.6	53.2	53.2	52.5
66.00	75.0	75.0	75.0	75.0	69.8	64.3	63.4	59.7	56.7	56.7	54.5	52.5	52.5	51.2	49.9	49.9	49.1
72.00	75.0	74.0	71.3	69.8	69.3	63.1	61.8	57.8	54.6	54.4	52.0	50.0	50.0	48.5	47.1	47.1	46.2
78.00	73.7	69.3	66.3	64.3	63.1	62.8	60.8	56.5	53.1	52.6	50.1	48.0	48.0	46.3	44.9	44.9	43.9
84.00	74.1	69.3	65.9	63.4	61.8	60.8	60.5	55.7	52.0	51.3	48.6	46.4	46.3	44.6	43.1	43.1	41.9
90.00	70.9	66.0	62.4	59.7	57.8	56.5	55.7	55.5	51.4	50.4	47.5	45.2	44.9	43.1	41.6	41.6	40.3
96.00	68.3	63.3	59.6	56.7	54.6	53.1	52.0	51.4	51.2	49.8	46.8	44.3	43.9	42.0	40.4	40.3	39.0
102.00	69.0	63.8	59.8	56.7	54.4	52.6	51.3	50.4	49.8	49.7	46.4	43.7	43.1	41.1	39.4	39.2	37.9
108.00	66.9	61.6	57.6	54.5	52.0	50.1	48.6	47.5	46.8	46.4	46.2	43.3	42.5	40.4	38.7	38.4	37.0
114.00	65.0	59.8	55.7	52.5	50.0	48.0	46.4	45.2	44.3	43.7	43.3	43.2	42.2	40.0	38.1	37.7	36.2
120.00	65.8	60.4	56.2	52.8	50.1	48.0	46.3	44.9	43.9	43.1	42.5	42.2	42.1	39.7	37.7	37.2	35.7
126.00	64.2	58.8	54.6	51.2	48.5	46.3	44.6	43.1	42.0	41.1	40.4	40.0	39.7	39.6	37.5	36.8	35.2
132.00	62.8	57.4	53.2	49.9	47.1	44.9	43.1	41.6	40.4	39.4	38.7	38.1	37.7	37.5	37.4	36.6	34.9
138.00	63.6	58.1	53.7	50.2	47.4	45.1	43.2	41.6	40.3	39.2	38.4	37.7	37.2	36.8	36.6	36.6	34.7
144.00	62.4	56.9	52.5	49.1	46.2	43.9	41.9	40.3	39.0	37.9	37.0	36.2	35.7	35.2	34.9	34.7	34.7

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	09/26/18	R.L.
B	REVISED ANCHORS	05/06/2022	R.L.

CHART #7
Design pressure chart (psf)
Units installed with (2) roofing nails, wood screw, metal screw or masonry anchor
Locate anchors 3" from each end and 9" max O.C. thereafter

Vertical spacing (in)	Horizontal spacing (in)																
	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	102.0	108.0	114.0	120.0	126.0	132.0	138.0	144.0
48.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	72.0	72.0	72.0	68.0	68.0	68.0	65.4	65.4	65.4
54.00	75.0	75.0	75.0	75.0	75.0	73.9	73.5	73.1	66.8	66.8	66.8	62.6	62.6	62.6	59.8	59.8	59.8
60.00	75.0	75.0	75.0	75.0	75.0	70.7	69.8	69.1	62.8	62.8	62.8	58.3	58.3	58.3	55.4	55.4	55.4
66.00	75.0	75.0	75.0	75.0	75.0	68.5	67.2	66.1	59.8	59.6	59.4	55.0	55.0	55.0	51.9	51.9	51.9
72.00	75.0	75.0	75.0	75.0	75.0	67.3	65.4	64.0	57.6	57.1	56.7	52.3	52.3	52.3	49.1	49.1	49.1
78.00	75.0	73.9	70.7	68.5	67.3	66.9	64.4	62.5	55.9	55.2	54.6	50.2	50.1	50.0	46.8	46.8	46.8
84.00	75.0	73.5	69.8	67.2	65.4	64.4	64.1	61.7	54.8	53.8	53.0	48.6	48.3	48.1	44.9	44.9	44.9
90.00	75.0	73.1	69.1	66.1	64.0	62.5	61.7	61.4	54.2	52.9	51.8	47.3	46.9	46.5	43.3	43.2	43.1
96.00	72.0	66.8	62.8	59.8	57.6	55.9	54.8	54.2	54.0	52.3	51.0	46.4	45.8	45.3	42.1	41.9	41.7
102.00	72.5	67.0	62.8	59.6	57.1	55.2	53.8	52.9	52.3	52.2	50.6	45.7	45.0	44.3	41.1	40.8	40.5
108.00	72.9	67.2	62.8	59.4	56.7	54.6	53.0	51.8	51.0	50.6	50.4	45.4	44.4	43.6	40.3	39.9	39.5
114.00	68.0	62.6	58.3	55.0	52.3	50.2	48.6	47.3	46.4	45.7	45.4	45.2	44.1	43.1	39.7	39.2	38.8
120.00	68.7	63.0	58.6	55.1	52.3	50.1	48.3	46.9	45.8	45.0	44.4	44.1	44.0	42.8	39.3	38.7	38.1
126.00	69.3	63.4	58.9	55.3	52.3	50.0	48.1	46.5	45.3	44.3	43.6	43.1	42.8	42.7	39.0	38.3	37.7
132.00	65.4	59.8	55.4	51.9	49.1	46.8	44.9	43.3	42.1	41.1	40.3	39.7	39.3	39.0	38.9	38.1	37.3
138.00	66.1	60.4	55.8	52.2	49.3	46.9	44.9	43.2	41.9	40.8	39.9	39.2	38.7	38.3	38.1	38.0	37.1
144.00	66.7	60.8	56.2	52.5	49.4	46.9	44.9	43.1	41.7	40.5	39.5	38.8	38.1	37.7	37.3	37.1	37.1

THE MUHLER COMPANY
630 SKYLARK DRIVE SUITE U
CHARLESTON , SC 29407

STORM TRIM PLUS
LARGE AND SMALL MISSILE IMPACT
CHARTS

DRAWN:
A.R.

DWG NO.
08-03209

REV
B

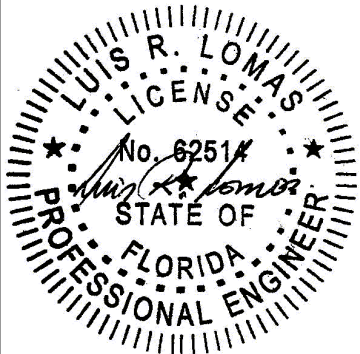
SCALE NTS

DATE 11/14/17

SHEET 5 OF 18

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@rlomaspe.com

SIGNED: 09/21/2026



Luis R. Lomas P.E.
FL No.: 62514

CHART #8
Design pressure chart (psf)
Units installed with (1) roofing nail
Locate anchors 3" from each end and 9" max O.C. thereafter

Vertical spacing (in)	Horizontal spacing (in)																
	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	102.0	108.0	114.0	120.0	126.0	132.0	138.0	144.0
48.00	58.5	54.6	45.5	44.6	43.9	39.0	39.0	39.0	35.8	35.8	35.8	33.8	33.8	33.8	32.5	32.5	32.5
54.00	54.6	53.9	44.1	42.7	41.6	36.7	36.5	36.3	33.2	33.2	33.2	31.1	31.1	31.1	29.7	29.7	29.7
60.00	45.5	44.1	43.7	41.6	40.1	35.1	34.7	34.3	31.2	31.2	31.2	29.0	29.0	29.0	27.5	27.5	27.5
66.00	44.6	42.7	41.6	41.3	39.3	34.0	33.4	32.8	29.7	29.6	29.5	27.3	27.3	27.3	25.8	25.8	25.8
72.00	43.9	41.6	40.1	39.3	39.0	33.4	32.5	31.8	28.6	28.4	28.2	26.0	26.0	26.0	24.4	24.4	24.4
78.00	39.0	36.7	35.1	34.0	33.4	33.2	32.0	31.1	27.8	27.4	27.1	25.0	24.9	24.8	23.2	23.2	23.2
84.00	39.0	36.5	34.7	33.4	32.5	32.0	31.8	30.6	27.2	26.7	26.3	24.1	24.0	23.9	22.3	22.3	22.3
90.00	39.0	36.3	34.3	32.8	31.8	31.1	30.6	30.5	26.9	26.3	25.8	23.5	23.3	23.1	21.5	21.5	21.4
96.00	35.8	33.2	31.2	29.7	28.6	27.8	27.2	26.9	26.8	26.0	25.4	23.0	22.8	22.5	20.9	20.8	20.7
102.00	36.0	33.3	31.2	29.6	28.4	27.4	26.7	26.3	26.0	25.9	25.1	22.7	22.3	22.0	20.4	20.3	20.1
108.00	36.2	33.4	31.2	29.5	28.2	27.1	26.3	25.8	25.4	25.1	25.0	22.5	22.1	21.7	20.0	19.8	19.6
114.00	33.8	31.1	29.0	27.3	26.0	25.0	24.1	23.5	23.0	22.7	22.5	22.5	21.9	21.4	19.7	19.5	19.3
120.00	34.1	31.3	29.1	27.4	26.0	24.9	24.0	23.3	22.8	22.3	22.1	21.9	21.8	21.3	19.5	19.2	18.9
126.00	34.4	31.5	29.3	27.4	26.0	24.8	23.9	23.1	22.5	22.0	21.7	21.4	21.3	21.2	19.4	19.0	18.7
132.00	32.5	29.7	27.5	25.8	24.4	23.2	22.3	21.5	20.9	20.4	20.0	19.7	19.5	19.4	19.3	18.9	18.5
138.00	32.8	30.0	27.7	25.9	24.5	23.3	22.3	21.5	20.8	20.3	19.8	19.5	19.2	19.0	18.9	18.9	18.4
144.00	33.2	30.2	27.9	26.1	24.6	23.3	22.3	21.4	20.7	20.1	19.6	19.3	18.9	18.7	18.5	18.4	18.4

CHART #9
Design pressure chart (psf)
Units installed with (2) roofing nails, wood screw, metal screw or masonry anchor
Locate anchors 3" from each end and 13 1/2" max O.C. thereafter

Vertical spacing (in)	Horizontal spacing (in)																
	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	102.0	108.0	114.0	120.0	126.0	132.0	138.0	144.0
48.00	75.0	75.0	65.4	65.4	58.9	58.9	55.0	55.0	52.3	52.3	50.5	47.1	47.1	46.2	46.2	45.5	45.5
54.00	75.0	75.0	63.4	63.4	55.8	55.8	51.4	51.4	48.5	48.5	46.5	43.3	43.3	42.3	42.3	41.5	41.5
60.00	65.4	63.4	62.8	62.8	53.8	53.8	48.9	48.9	45.7	45.7	43.5	40.4	40.4	39.3	39.3	38.4	38.4
66.00	67.3	64.4	62.8	62.3	52.7	52.7	47.0	47.0	43.5	43.5	41.1	38.1	38.1	36.8	36.8	35.9	35.9
72.00	58.9	55.8	53.8	52.7	52.3	52.3	45.8	45.8	41.9	41.9	39.3	36.2	36.2	34.9	34.9	33.9	33.9
78.00	61.1	57.5	55.0	53.3	52.3	52.0	45.1	45.1	40.7	40.7	37.8	34.8	34.8	33.3	33.3	32.2	32.2
84.00	55.0	51.4	48.9	47.0	45.8	45.1	44.9	44.9	39.9	39.9	36.7	33.6	33.6	32.0	32.0	30.8	30.8
90.00	57.1	53.2	50.2	48.1	46.5	45.5	44.9	44.7	39.4	39.4	35.9	32.8	32.8	31.0	31.0	29.7	29.7
96.00	52.3	48.5	45.7	43.5	41.9	40.7	39.9	39.4	39.3	39.3	35.3	32.1	32.1	30.2	30.2	28.8	28.8
102.00	54.4	50.2	47.1	44.7	42.8	41.4	40.4	39.7	39.3	39.1	35.0	31.7	31.7	29.6	29.6	28.0	28.0
108.00	50.5	46.5	43.5	41.1	39.3	37.8	36.7	35.9	35.3	35.0	34.9	31.4	31.4	29.1	29.1	27.4	27.4
114.00	47.1	43.3	40.4	38.1	36.2	34.8	33.6	32.8	32.1	31.7	31.4	31.3	31.3	28.7	28.7	26.9	26.9
120.00	49.1	45.0	41.9	39.4	37.4	35.8	34.5	33.5	32.7	32.1	31.7	31.3	31.3	28.5	28.5	26.6	26.6
126.00	46.2	42.3	39.3	36.8	34.9	33.3	32.0	31.0	30.2	29.6	29.1	28.7	28.5	28.5	28.5	26.3	26.3
132.00	48.0	43.9	40.6	38.1	36.0	34.3	32.9	31.8	30.8	30.1	29.5	29.1	28.8	28.5	28.5	26.2	26.2
138.00	45.5	41.5	38.4	35.9	33.9	32.2	30.8	29.7	28.8	28.0	27.4	26.9	26.6	26.3	26.2	26.1	26.1
144.00	47.1	42.9	39.7	37.0	34.9	33.1	31.7	30.5	29.4	28.6	27.9	27.4	26.9	26.6	26.4	26.1	26.1

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	09/26/18	R.L.
B	REVISED ANCHORS	05/06/2022	R.L.

CHART #10
Design pressure chart (psf)
Units installed with (1) roofing nail
Locate anchors 3" from each end and 13 1/2" max O.C. thereafter

Vertical spacing (in)	Horizontal spacing (in)																
	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	102.0	108.0	114.0	120.0	126.0	132.0	138.0	144.0
48.00	48.8	39.0	32.5	32.5	29.3	29.3	27.3	27.3	26.0	26.0	25.1	23.4	23.4	22.9	22.9	22.6	22.6
54.00	39.0	38.5	31.5	31.5	27.7	27.7	25.5	25.5	24.1	24.1	23.1	21.5	21.5	21.0	21.0	20.6	20.6
60.00	32.5	31.5	31.2	31.2	26.7	26.7	24.3	24.3	22.7	22.7	21.6	20.1	20.1	19.5	19.5	19.1	19.1
66.00	33.4	32.0	31.2	30.9	26.2	26.2	23.4	23.4	21.6	21.6	20.4	18.9	18.9	18.3	18.3	17.8	17.8
72.00	29.3	27.7	26.7	26.2	26.0	26.0	22.8	22.8	20.8	20.8	19.5	18.0	18.0	17.3	17.3	16.8	16.8
78.00	30.3	28.5	27.3	26.5	26.0	25.8	22.4	22.4	20.2	20.2	18.8	17.3	17.3	16.6	16.6	16.0	16.0
84.00	27.3	25.5	24.3	23.4	22.8	22.4	22.3	22.3	19.8	19.8	18.2	16.7	16.7	15.9	15.9	15.3	15.3
90.00	28.4	26.4	25.0	23.9	23.1	22.6	22.3	22.2	19.6	19.6	17.8	16.3	16.3	15.4	15.4	-	15.1
96.00	26.0	24.1	22.7	21.6	20.8	20.2	19.8	19.6	19.5	19.5	17.6	16.0	16.0	15.0	15.0	-	-
102.00	27.0	25.0	23.4	22.2	21.3	20.6	20.1	19.7	19.5	19.4	17.4	15.7	15.7	-	-	-	-
108.00	25.1	23.1	21.6	20.4	19.5	18.8	18.2	17.8	17.6	17.4	17.3	15.6	15.6	-	-	-	-
114.00	23.4	21.5	20.1	18.9	18.0	17.3	16.7	16.3	16.0	15.7	15.6	15.6	15.6	-	-	-	-
120.00	24.4	22.4	20.8	19.6	18.6	17.8	17.1	16.6	16.3	16.0	15.8	15.6	15.6	-	-	-	-
126.00	22.9	21.0	19.5	18.3	17.3	16.6	15.9	15.4	15.0	-	-	-	-	-	-	-	-
132.00	23.8	21.8	20.2	18.9	17.9	17.0	16.3	15.8	15.3	-	-	-	-	-	-	-	-
138.00	22.6	20.6	19.1	17.8	16.8	16.0	15.3	-	-	-	-	-	-	-	-	-	-
144.00	23.4	21.3	19.7	18.4	17.3	16.5	15.7	-	-	-	-	-	-	-	-	-	-

THE MUHLER COMPANY
630 SKYLARK DRIVE SUITE U
CHARLESTON , SC 29407

STORM TRIM PLUS
LARGE AND SMALL MISSILE IMPACT
CHARTS

DRAWN:
A.R.

DWG NO.
08-03209

REV
B

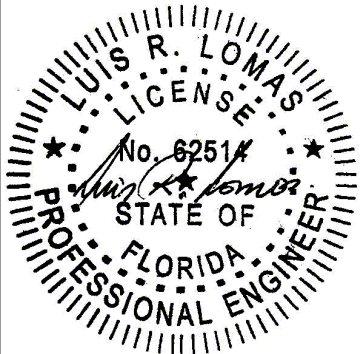
SCALE NTS

DATE 11/14/17

SHEET 6 OF 18

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 09/21/2026



Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	09/26/18	R.L.
B	REVISED ANCHORS	05/06/2022	R.L.

CHART #11
Design pressure chart (psf)
Units installed with (2) roofing nails, wood screw, metal screw or masonry anchor
Locate anchors 3" from each end and 18" max O.C. thereafter

Vertical spacing (in)	Horizontal spacing (in)																
	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	102.0	108.0	114.0	120.0	126.0	132.0	138.0	144.0
48.00	75.0	62.8	52.3	52.3	49.1	43.6	43.6	42.8	39.3	39.3	39.3	36.6	36.6	36.6	34.9	34.9	34.9
54.00	62.8	62.0	50.8	50.8	46.5	41.1	41.1	39.9	36.4	36.4	36.2	33.7	33.7	33.7	31.9	31.9	31.9
60.00	52.3	50.8	50.2	50.2	44.9	39.3	39.3	37.7	34.3	34.3	33.8	31.4	31.4	31.4	29.6	29.6	29.6
66.00	56.1	53.7	50.2	50.2	43.9	38.1	38.1	36.1	32.6	32.6	32.0	29.6	29.6	29.5	27.7	27.7	27.7
72.00	49.1	46.5	44.9	43.9	43.6	37.4	37.4	34.9	31.4	31.4	30.5	28.2	28.2	27.9	26.2	26.2	26.2
78.00	43.6	41.1	39.3	38.1	37.4	37.2	37.2	34.1	30.5	30.5	29.4	27.1	27.1	26.7	24.9	24.9	24.8
84.00	47.1	44.1	41.9	40.3	39.3	37.2	37.2	33.6	29.9	29.9	28.5	26.2	26.2	25.6	23.9	23.9	23.8
90.00	42.8	39.9	37.7	36.1	34.9	34.1	33.6	33.5	29.6	29.6	27.9	25.5	25.5	24.8	23.1	23.1	22.8
96.00	39.3	36.4	34.3	32.6	31.4	30.5	29.9	29.6	29.4	29.4	27.5	25.0	25.0	24.2	22.4	22.4	22.1
102.00	42.3	39.1	36.6	34.8	33.3	32.2	31.4	30.9	29.4	29.4	27.2	24.6	24.6	23.6	21.9	21.9	21.5
108.00	39.3	36.2	33.8	32.0	30.5	29.4	28.5	27.9	27.5	27.2	27.1	24.4	24.4	23.3	21.5	21.5	20.9
114.00	36.6	33.7	31.4	29.6	28.2	27.1	26.2	25.5	25.0	24.6	24.4	24.4	24.4	23.0	21.2	21.2	20.5
120.00	39.3	36.0	33.5	31.5	29.9	28.6	27.6	26.8	26.2	25.7	25.4	24.4	24.4	22.8	20.9	20.9	20.2
126.00	36.9	33.8	31.4	29.5	27.9	26.7	25.6	24.8	24.2	23.6	23.3	23.0	22.8	22.8	20.8	20.8	19.9
132.00	34.9	31.9	29.6	27.7	26.2	24.9	23.9	23.1	22.4	21.9	21.5	21.2	20.9	20.8	20.8	20.8	19.8
138.00	37.2	34.0	31.4	29.4	27.7	26.4	25.2	24.3	23.6	22.9	22.4	22.0	21.7	21.5	20.8	20.8	19.7
144.00	35.3	32.2	29.8	27.8	26.2	24.8	23.8	22.8	22.1	21.5	20.9	20.5	20.2	19.9	19.8	19.7	19.6

CHART #12
Design pressure chart (psf)
Units installed with (1) roofing nail
Locate anchors 3" from each end and 18" max O.C. thereafter

Vertical spacing (in)	Horizontal spacing (in)																
	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	102.0	108.0	114.0	120.0	126.0	132.0	138.0	144.0
48.00	39.0	31.2	26.0	26.0	24.4	21.7	21.7	21.3	19.5	19.5	19.5	18.2	18.2	18.2	17.3	17.3	17.3
54.00	31.2	30.8	25.2	25.2	23.1	20.4	20.4	19.8	18.1	18.1	18.0	16.7	16.7	16.7	15.8	15.8	15.8
60.00	26.0	25.2	25.0	25.0	22.3	19.5	19.5	18.7	17.0	17.0	16.8	15.6	15.6	15.6	-	-	-
66.00	27.9	26.7	25.0	25.0	21.8	18.9	18.9	17.9	16.2	16.2	15.9	-	-	-	-	-	-
72.00	24.4	23.1	22.3	21.8	21.7	18.6	18.6	17.3	15.6	15.6	15.2	-	-	-	-	-	-
78.00	21.7	20.4	19.5	18.9	18.6	18.5	18.5	16.9	15.2	15.2	-	-	-	-	-	-	-
84.00	23.4	21.9	20.8	20.0	19.5	18.5	18.5	16.7	-	-	-	-	-	-	-	-	-
90.00	21.3	19.8	18.7	17.9	17.3	16.9	16.7	16.6	-	-	-	-	-	-	-	-	-
96.00	19.5	18.1	17.0	16.2	15.6	15.2	-	-	-	-	-	-	-	-	-	-	-
102.00	21.0	19.4	18.2	17.3	16.5	16.0	-	-	-	-	-	-	-	-	-	-	-
108.00	19.5	18.0	16.8	15.9	15.2	-	-	-	-	-	-	-	-	-	-	-	-
114.00	18.2	16.7	15.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
120.00	19.5	17.9	16.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
126.00	18.4	16.8	15.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
132.00	17.3	15.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
138.00	18.5	16.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
144.00	17.6	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CHART #13
Design pressure chart (psf)
Units installed with (2) roofing nails, wood screw, metal screw or masonry anchor
Locate anchors 3" from each end and 22 1/2" max O.C. thereafter

Vertical spacing (in)	Horizontal spacing (in)																
	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	102.0	108.0	114.0	120.0	126.0	132.0	138.0	144.0
48.00	58.9	58.9	52.3	44.9	39.3	39.3	39.3	35.7	32.7	32.7	32.7	31.4	31.4	31.4	30.5	28.9	28.9
54.00	58.9	58.9	50.8	42.9	37.2	37.2	36.7	33.2	30.3	30.3	30.3	28.9	28.9	28.9	27.9	26.4	26.4
60.00	52.3	50.8	50.2	41.9	35.9	35.9	34.9	31.4	28.5	28.5	28.5	26.9	26.9	26.9	25.9	24.4	24.4
66.00	44.9	42.9	41.9	41.5	35.1	35.1	33.6	30.1	27.2	27.2	27.2	25.4	25.4	25.4	24.2	22.8	22.8
72.00	39.3	37.2	35.9	35.1	34.9	34.9	32.7	29.1	26.2	26.2	26.2	24.2	24.2	24.2	22.9	21.6	21.6
78.00	43.6	41.1	39.3	38.1	34.9	34.9	32.2	28.4	25.4	25.4	25.2	23.2	23.2	23.2	21.8	20.5	20.5
84.00	39.3	36.7	34.9	33.6	32.7	32.2	32.0	28.0	24.9	24.9	24.5	22.4	22.4	22.4	20.9	19.6	19.6
90.00	35.7	33.2	31.4	30.1	29.1	28.4	28.0	27.9	24.6	24.6	23.9	21.8	21.8	21.7	20.2	18.9	18.9
96.00	32.7	30.3	28.5	27.2	26.2	25.4	24.9	24.6	24.5	24.5	23.6	21.4	21.4	21.1	19.6	18.3	18.3
102.00	36.2	33.5	31.4	29.8	28.5	27.6	26.9	26.4	24.5	24.5	23.3	21.1	21.1	20.7	19.2	17.8	17.8
108.00	33.6	31.0	29.0	27.4	26.2	25.2	24.5	23.9	23.6	23.3	23.3	20.9	20.9	20.4	18.8	17.4	17.4
114.00	31.4	28.9	26.9	25.4	24.2	23.2	22.4	21.8	21.4	21.1	20.9	20.9	20.9	20.1	18.5	17.1	17.1
120.00	34.3	31.5	29.3	27.6	26.2	25.1	24.2	23.4	22.9	22.5	22.2	20.9	20.9	20.0	18.3	16.9	16.9
126.00	32.3	29.6	27.5	25.8	24.4	23.3	22.4	21.7	21.1	20.7	20.4	20.1	20.0	19.9	18.2	16.7	16.7
132.00	30.5	27.9	25.9	24.2	22.9	21.8	20.9	20.2	19.6	19.2	18.8	18.5	18.3	18.2	18.2	16.7	16.7
138.00	28.9	26.4	24.4	22.8	21.6	20.5	19.6	18.9	18.3	17.8	17.4	17.1	16.9	16.7	16.7	16.6	16.6
144.00	31.4	28.6	26.4	24.7	23.3	22.1	21.1	20.3	19.6	19.1	18.6	18.2	17.9	17.7	17.6	16.6	16.6

SIGNED: 09/21/2026

THE MUHLER COMPANY
630 SKYLARK DRIVE SUITE U
CHARLESTON , SC 29407

STORM TRIM PLUS
LARGE AND SMALL MISSILE IMPACT
CHARTS

DRAWN:
A.R.

DWG NO.
08-03209

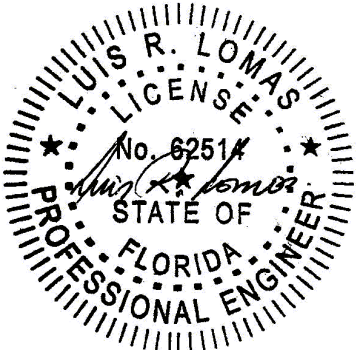
REV
B

SCALE NTS

DATE 11/14/17

SHEET 7 OF 18

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	09/26/18	R.L.
B	REVISED ANCHORS	05/06/2022	R.L.

CHART #14
Design pressure chart (psf)
Units installed with (1) roofing nail
Locate anchors 3" from each end and 22 1/2" max O.C. thereafter

Vertical spacing (in)	Horizontal spacing (in)														
	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	102.0	108.0	114.0	120.0	126.0	132.0
48.00	29.3	29.3	26.0	22.3	19.5	19.5	19.5	17.7	16.3	16.3	16.3	15.6	15.6	15.6	15.2
54.00	29.3	29.3	25.2	21.3	18.5	18.5	18.2	16.5	15.1	15.1	15.1	-	-	-	-
60.00	26.0	25.2	25.0	20.8	17.8	17.8	17.3	15.6	-	-	-	-	-	-	-
66.00	22.3	21.3	20.8	20.6	17.5	17.5	16.7	-	-	-	-	-	-	-	-
72.00	19.5	18.5	17.8	17.5	17.3	17.3	16.3	-	-	-	-	-	-	-	-
78.00	21.7	20.4	19.5	18.9	17.3	17.3	16.0	-	-	-	-	-	-	-	-
84.00	19.5	18.2	17.3	16.7	16.3	16.0	15.9	-	-	-	-	-	-	-	-
90.00	17.7	16.5	15.6	-	-	-	-	-	-	-	-	-	-	-	-
96.00	16.3	15.1	-	-	-	-	-	-	-	-	-	-	-	-	-
102.00	18.0	16.6	-	-	-	-	-	-	-	-	-	-	-	-	-
108.00	16.7	15.4	-	-	-	-	-	-	-	-	-	-	-	-	-
114.00	15.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
120.00	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
126.00	16.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
132.00	15.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CHART #15
Design pressure chart (psf)
Units installed with (2) roofing nails, wood screw, metal screw or masonry anchor
Locate anchors 3" from each end and 27" max O.C. thereafter

Vertical spacing (in)	Horizontal spacing (in)																
	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	102.0	108.0	114.0	120.0	126.0	132.0	138.0	144.0
48.00	58.9	47.1	39.3	39.3	39.3	34.9	31.4	31.4	31.4	30.2	28.0	26.2	26.2	26.2	26.2	24.8	24.8
54.00	47.1	46.5	38.1	38.1	37.2	32.8	29.4	29.4	29.4	27.9	25.8	24.1	24.1	24.1	23.9	22.6	22.6
60.00	39.3	38.1	37.7	37.7	35.9	31.4	27.9	27.9	27.9	26.2	24.2	22.4	22.4	22.4	22.2	20.9	20.9
66.00	44.9	42.9	37.7	37.7	35.1	30.5	26.9	26.9	26.9	24.8	22.8	21.1	21.1	21.1	20.8	19.6	19.6
72.00	39.3	37.2	35.9	35.1	34.9	29.9	26.2	26.2	26.2	23.8	21.8	20.1	20.1	20.1	19.6	18.5	18.5
78.00	34.9	32.8	31.4	30.5	29.9	29.7	25.8	25.8	25.4	23.0	21.0	19.3	19.3	19.3	18.7	17.6	17.6
84.00	31.4	29.4	27.9	26.9	26.2	25.8	25.6	25.6	24.9	22.4	20.4	18.7	18.7	18.7	17.9	16.8	16.8
90.00	35.7	33.2	31.4	30.1	29.1	28.4	25.6	25.6	24.6	22.0	19.9	18.2	18.2	18.2	17.3	16.2	16.2
96.00	32.7	30.3	28.5	27.2	26.2	25.4	24.9	24.6	24.5	21.8	19.6	17.8	17.8	17.8	16.8	15.7	15.7
102.00	30.2	27.9	26.2	24.8	23.8	23.0	22.4	22.0	21.8	21.7	19.4	17.6	17.6	17.6	16.4	15.3	15.3
108.00	28.0	25.8	24.2	22.8	21.8	21.0	20.4	19.9	19.6	19.4	19.4	17.4	17.4	17.4	16.1	-	-
114.00	26.2	24.1	22.4	21.1	20.1	19.3	18.7	18.2	17.8	17.6	17.4	17.4	17.4	17.2	15.9	-	-
120.00	29.4	27.0	25.1	23.6	22.4	21.5	20.7	20.1	19.6	19.3	19.0	17.4	17.4	17.1	15.7	-	-
126.00	27.7	25.4	23.6	22.1	20.9	20.0	19.2	18.6	18.1	17.7	17.4	17.2	17.1	17.1	15.6	-	-
132.00	26.2	23.9	22.2	20.8	19.6	18.7	17.9	17.3	16.8	16.4	16.1	15.9	15.7	15.6	15.6	-	-
138.00	24.8	22.6	20.9	19.6	18.5	17.6	16.8	16.2	15.7	15.3	-	-	-	-	-	-	-
144.00	27.5	25.1	23.1	21.6	20.4	19.3	18.5	17.8	17.2	16.7	-	-	-	-	-	-	-

CHART #16
Design pressure chart (psf)
Units installed with (1) roofing nail
Locate anchors 3" from each end and 27" max O.C. thereafter

Vertical spacing (in)	Horizontal spacing (in)									
	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	102.0
48.00	29.3	23.4	19.5	19.5	19.5	17.3	15.6	15.6	15.6	15.0
54.00	23.4	23.1	18.9	18.9	18.5	16.3	-	-	-	-
60.00	19.5	18.9	18.7	18.7	17.8	15.6	-	-	-	-
66.00	22.3	21.3	18.7	18.7	17.5	15.1	-	-	-	-
72.00	19.5	18.5	17.8	17.5	17.3	-	-	-	-	-
78.00	17.3	16.3	15.6	15.1	-	-	-	-	-	-
84.00	15.6	-	-	-	-	-	-	-	-	-
90.00	15.6	-	-	-	-	-	-	-	-	-
96.00	15.6	-	-	-	-	-	-	-	-	-
102.00	15.0	-	-	-	-	-	-	-	-	-

SIGNED: 09/21/2026

THE MUHLER COMPANY

630 SKYLARK DRIVE SUITE U
CHARLESTON , SC 29407

STORM TRIM PLUS
LARGE AND SMALL MISSILE IMPACT
CHARTS

DRAWN:
A.R.

DWG NO.
08-03209

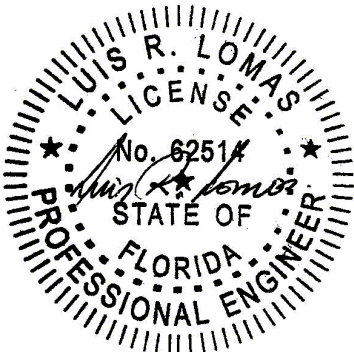
REV
B

SCALE NTS

DATE 11/14/17

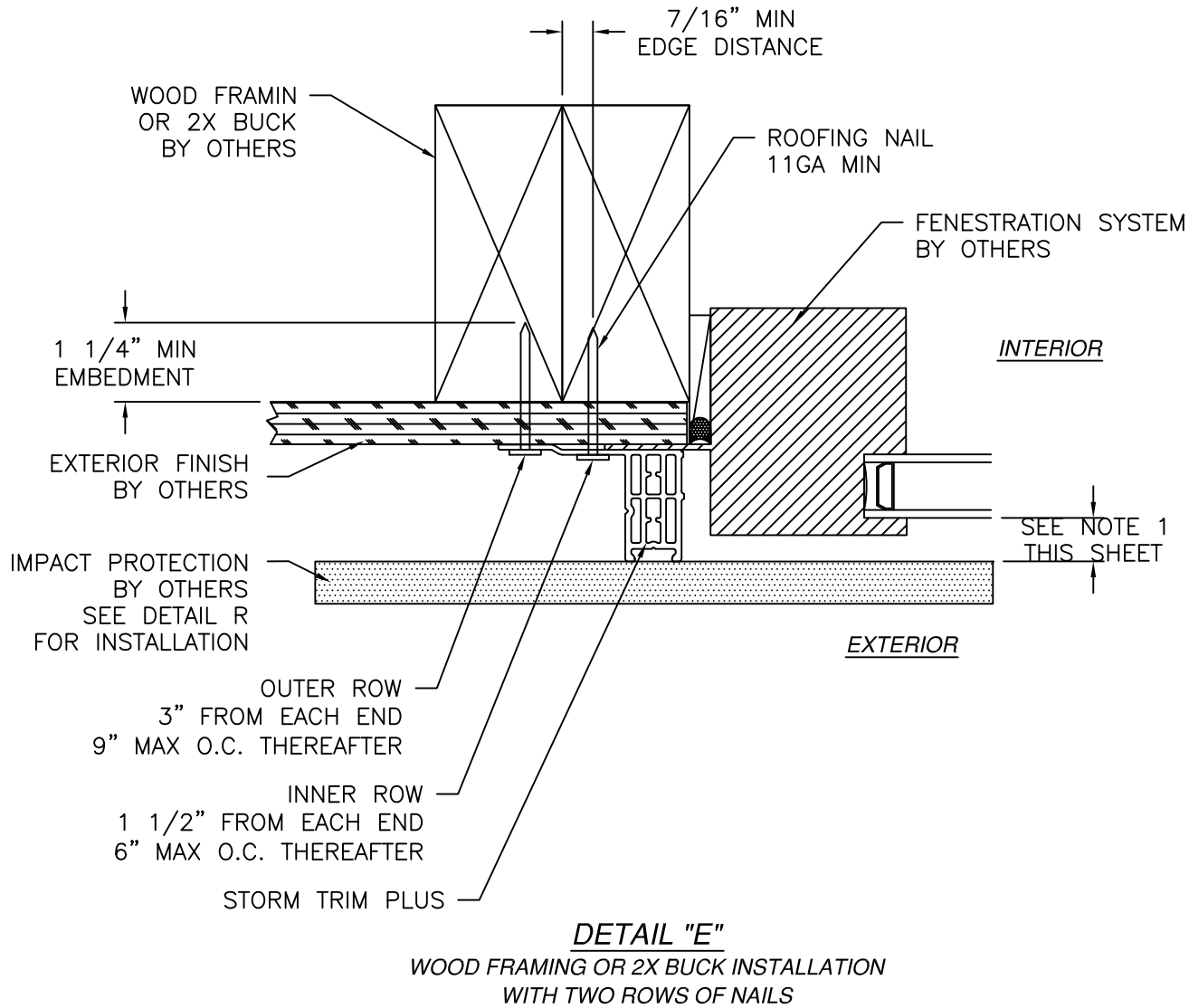
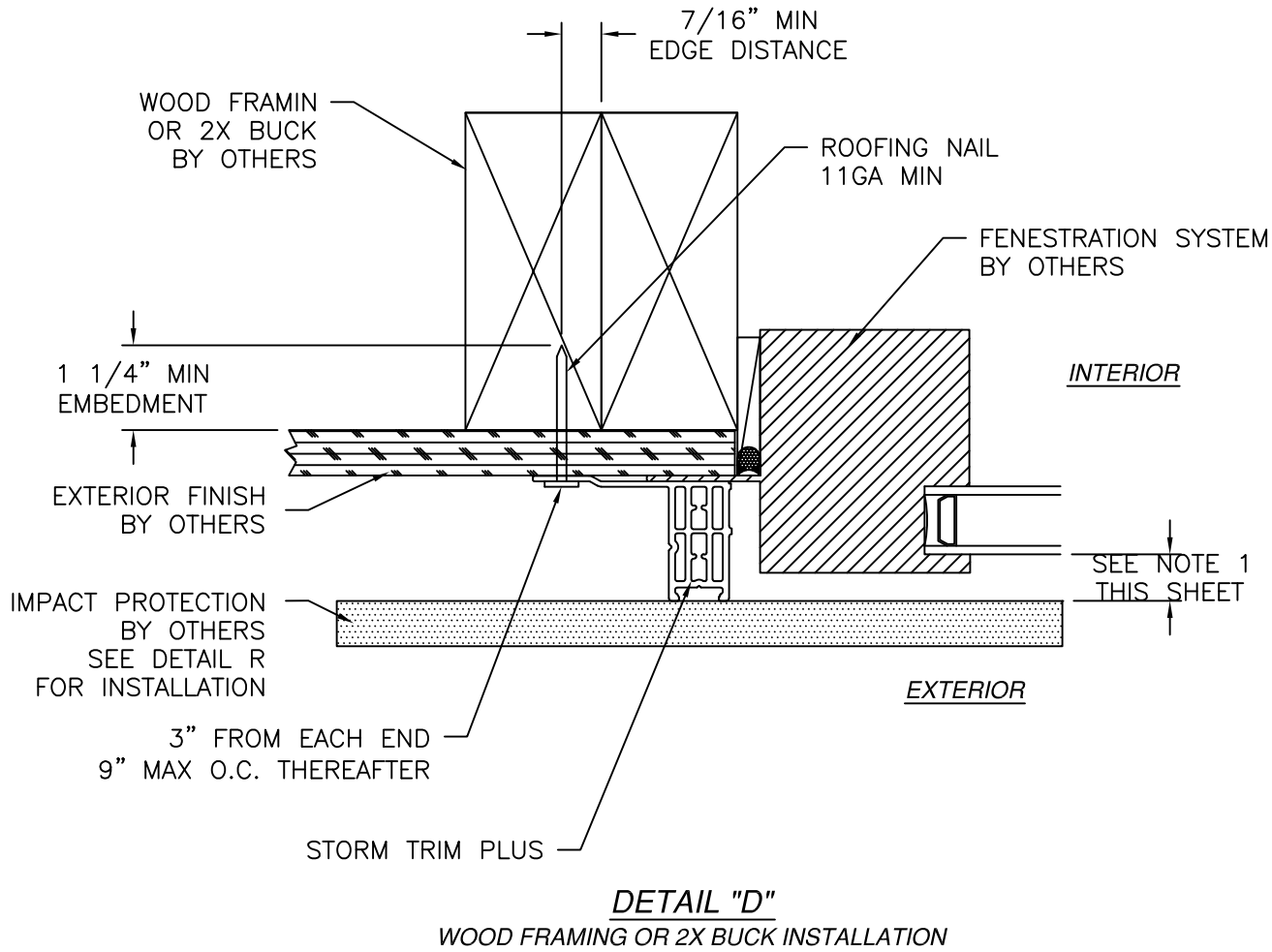
SHEET 8 OF 18

L. ROBERTO LOMAS P.E.
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434-688-0609 rllomas@rlomaspe.com



Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	09/26/18	R.L.
B	REVISED ANCHORS	05/06/2022	R.L.



NOTES:
1. SEPARATION BETWEEN FENESTRATION GLASS AND IMPACT PROTECTIVE SYSTEM TO BE IN ACCORDANCE WITH PROTECTIVE SYSTEM APPROVAL AND LIMITATIONS.

THE MUHLER COMPANY

630 SKYLARK DRIVE SUITE U
CHARLESTON , SC 29407

STORM TRIM PLUS
LARGE AND SMALL MISSILE IMPACT
NEW CONSTRUCTION INSTALLATION DETAILS

DRAWN:
A.R.

DWG NO.
08-03209

REV
B

SCALE
NTS

DATE
11/14/17

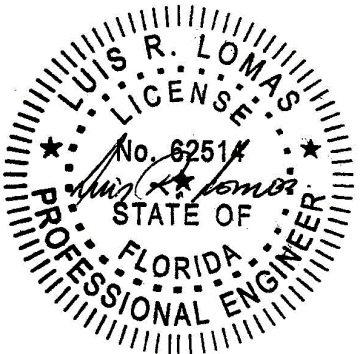
SHEET
10 OF 18

L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

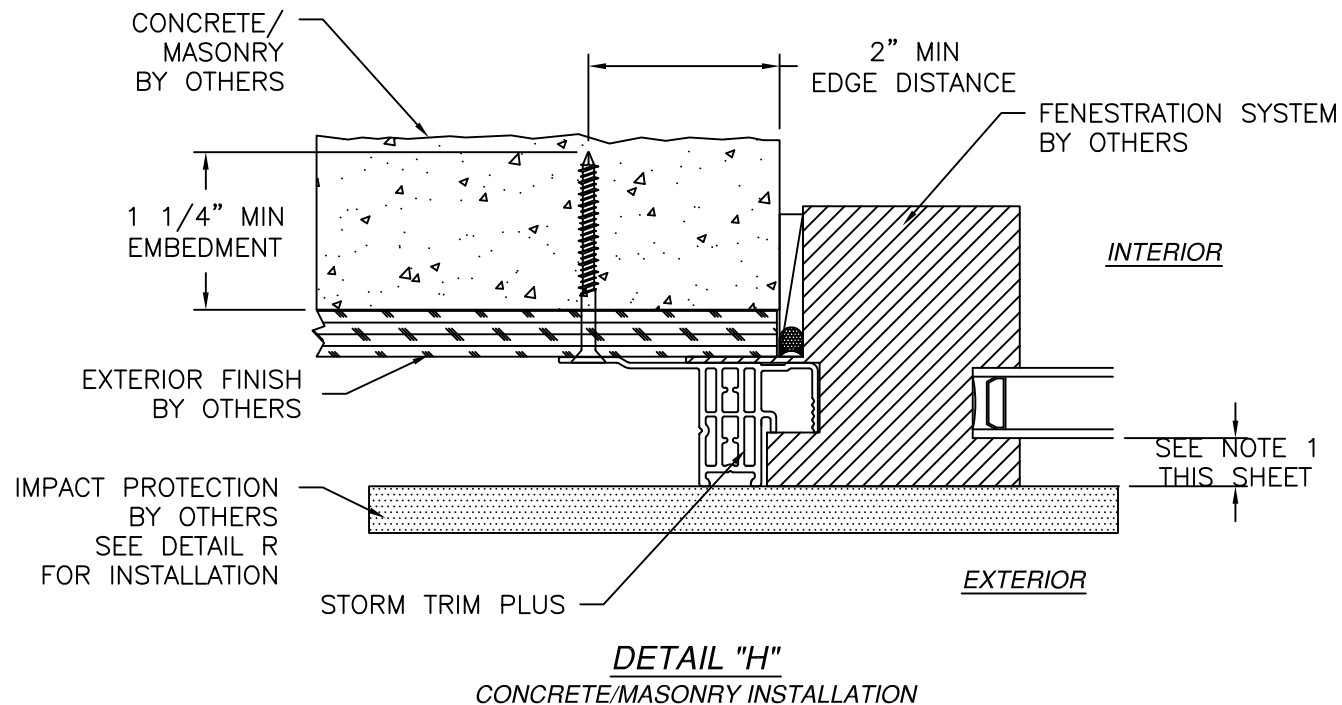
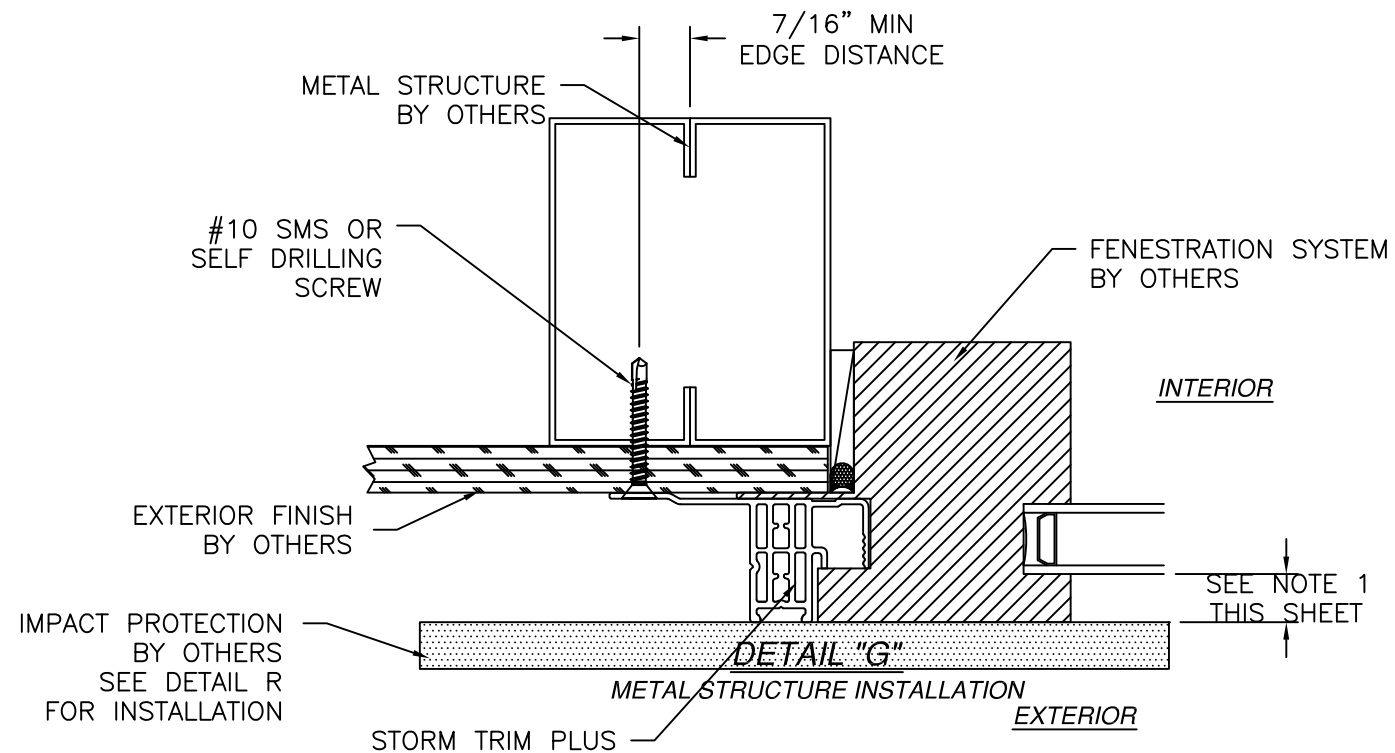
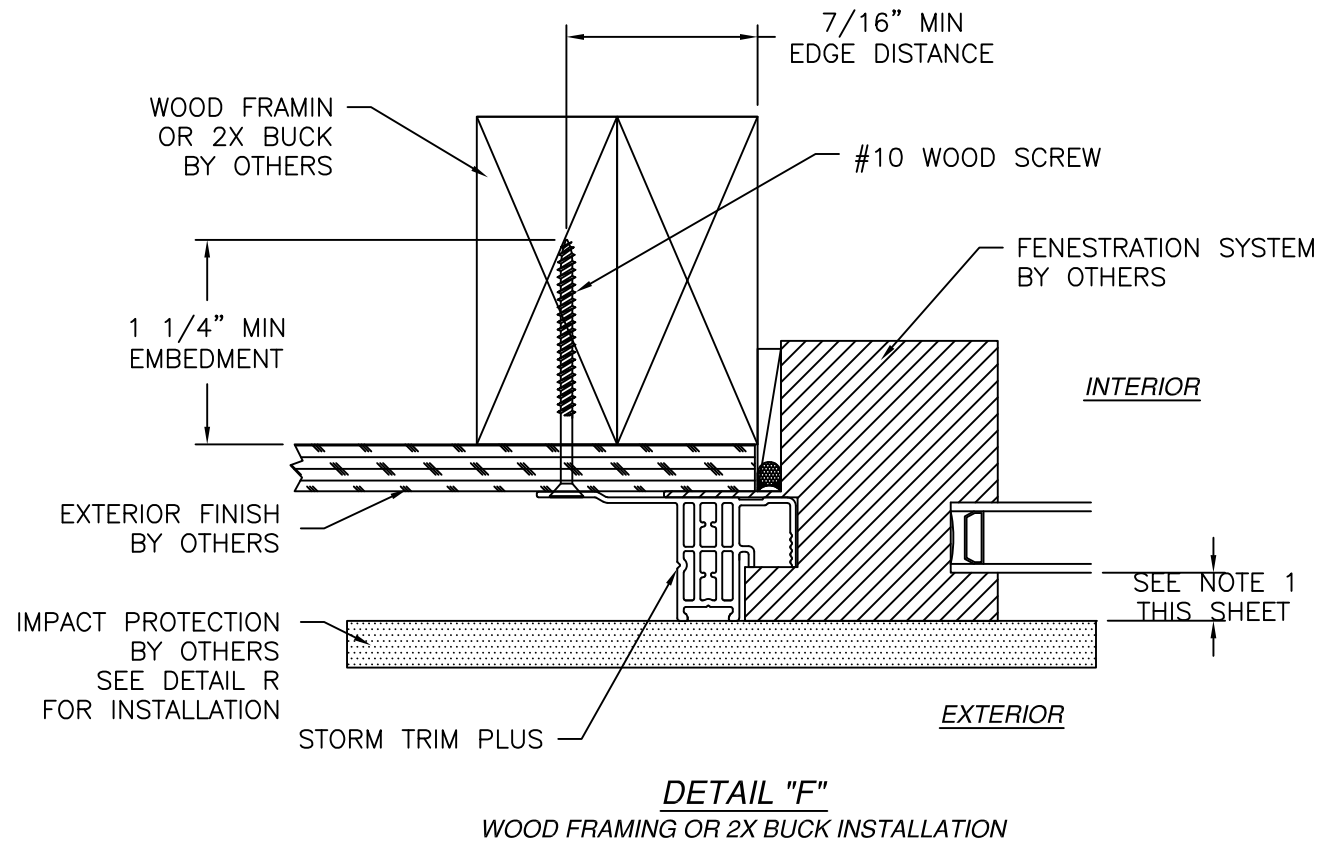
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 09/21/2026



Luis R. Lomas P.E.
FL No.: 62514

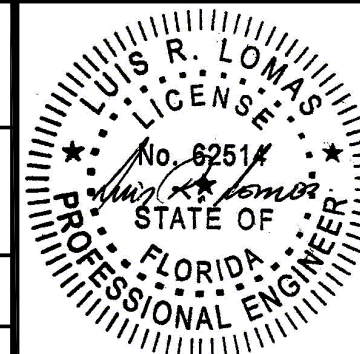
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	09/26/18	R.L.
B	REVISED ANCHORS	05/06/2022	R.L.



- NOTES:
1. SEPARATION BETWEEN FENESTRATION GLASS AND IMPACT PROTECTIVE SYSTEM TO BE IN ACCORDANCE WITH PROTECTIVE SYSTEM APPROVAL AND LIMITATIONS.

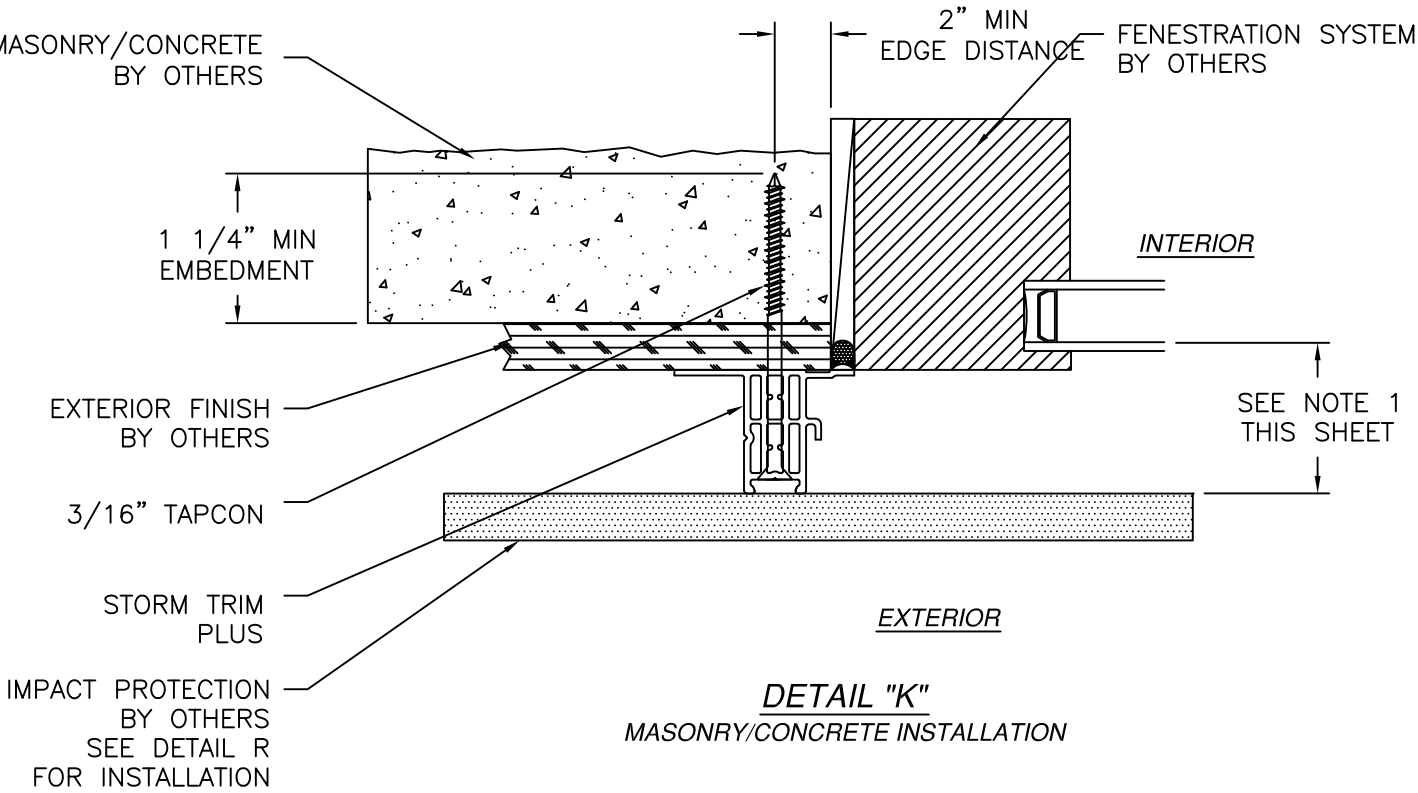
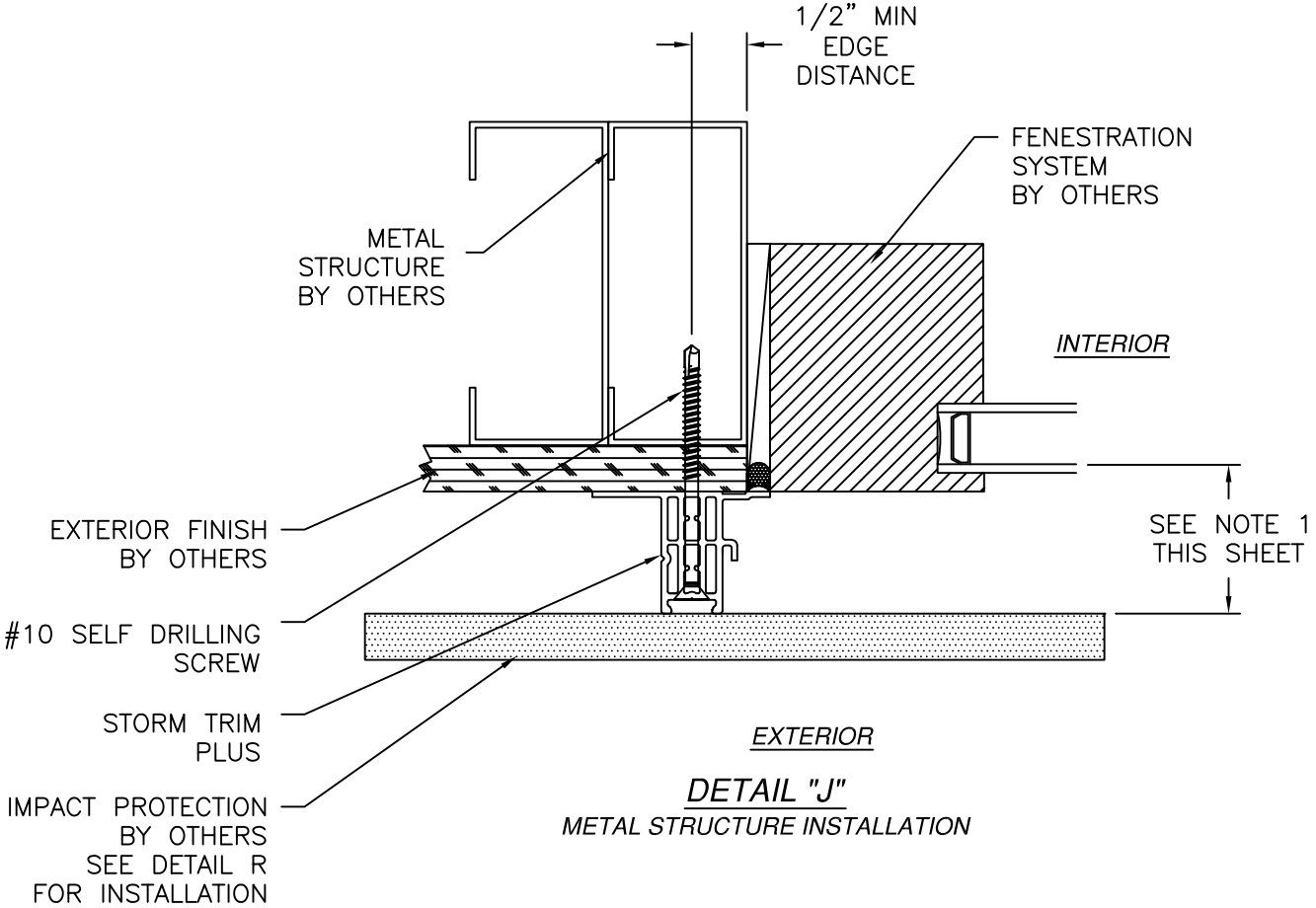
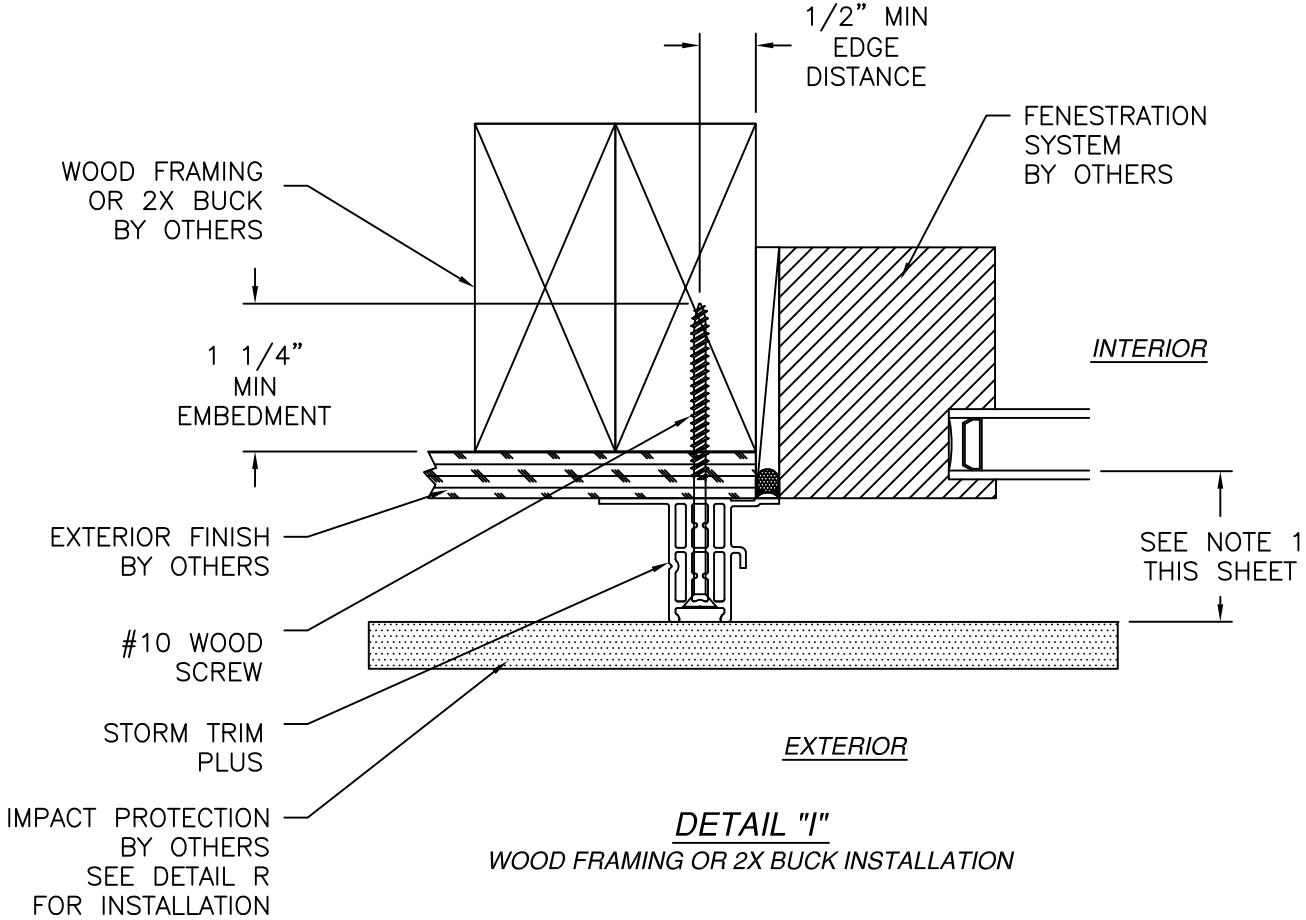
SIGNED: 09/21/2026

THE MUHLER COMPANY 630 SKYLARK DRIVE SUITE U CHARLESTON , SC 29407		
STORM TRIM PLUS LARGE AND SMALL MISSILE IMPACT INSTALLATION DETAILS WITH "J" CHANNEL		
DRAWN: A.R.	DWG NO. 08-03209	REV B
SCALE NTS	DATE 11/14/17	SHEET 11 OF 18
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	09/26/18	R.L.
B	REVISED ANCHORS	05/06/2022	R.L.



NOTES:
 1. SEPARATION BETWEEN FENESTRATION GLASS AND IMPACT PROTECTIVE SYSTEM TO BE IN ACCORDANCE WITH PROTECTIVE SYSTEM APPROVAL AND LIMITATIONS.

SIGNED: 09/21/2026

THE MUHLER COMPANY

630 SKYLARK DRIVE SUITE U

CHARLESTON , SC 29407

STORM TRIM PLUS

LARGE AND SMALL MISSILE IMPACT

STORM TRIM PLUS INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03209

REV B

SCALE NTS

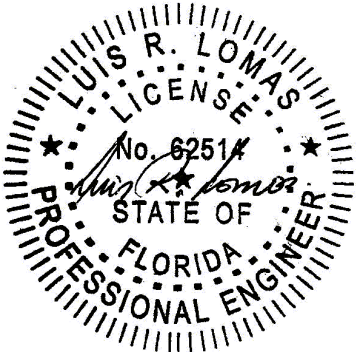
DATE 11/14/17

SHEET 12 OF 18

L. ROBERTO LOMAS P.E.

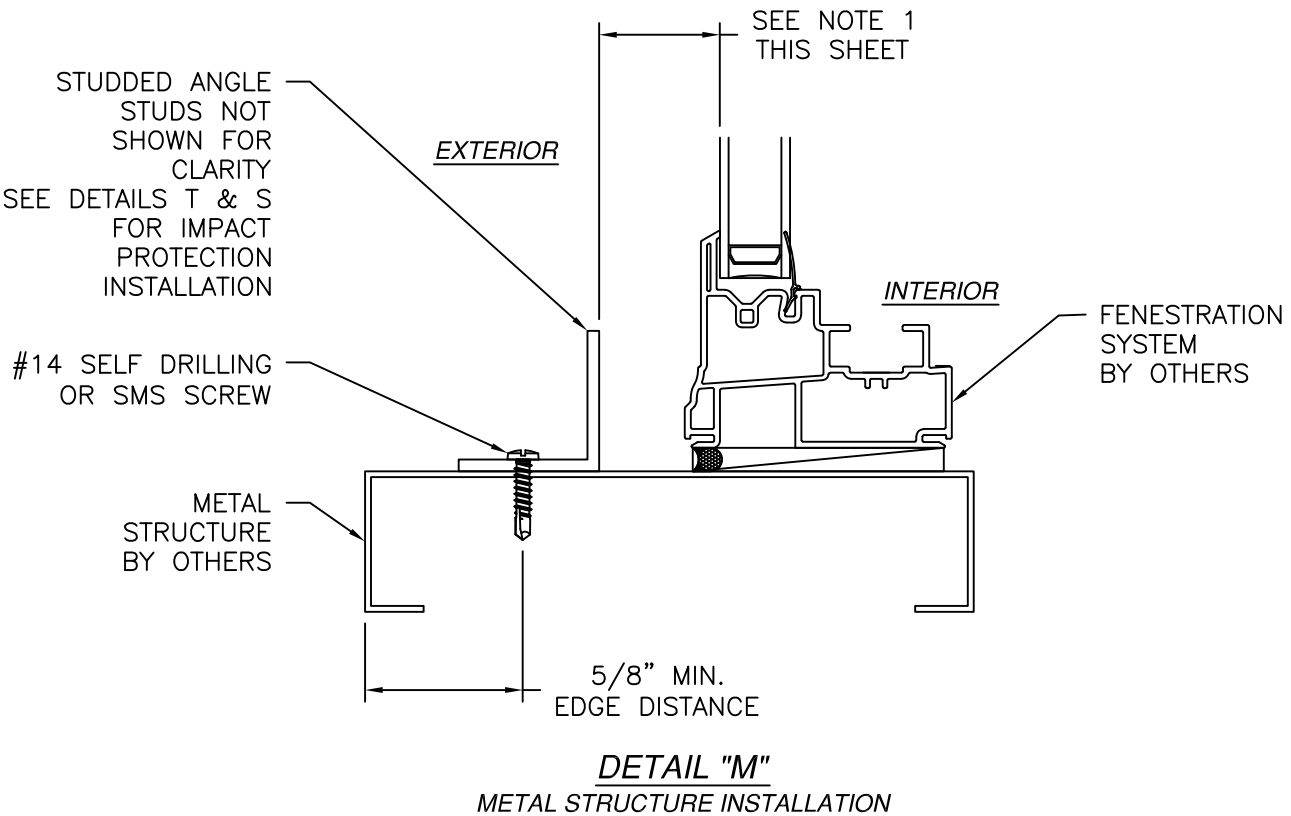
208 7th Ave, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com



Luis R. Lomas P.E.
 FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	09/26/18	R.L.
B	REVISED ANCHORS	05/06/2022	R.L.



NOTES:
1. SEPARATION BETWEEN FENESTRATION GLASS AND IMPACT PROTECTIVE SYSTEM TO BE IN ACCORDANCE WITH PROTECTIVE SYSTEM APPROVAL AND LIMITATIONS.

SIGNED: 09/21/2026

THE MUHLER COMPANY

630 SKYLARK DRIVE SUITE U
CHARLESTON , SC 29407

STORM TRIM PLUS
LARGE AND SMALL MISSILE IMPACT
STUDDED ANGLE INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03209

REV B

SCALE NTS

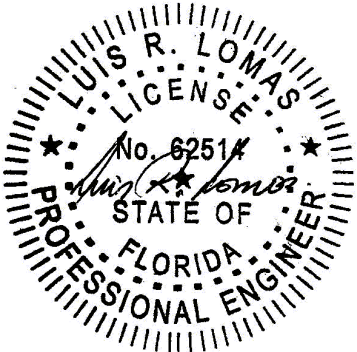
DATE 11/14/17

SHEET 13 OF 18

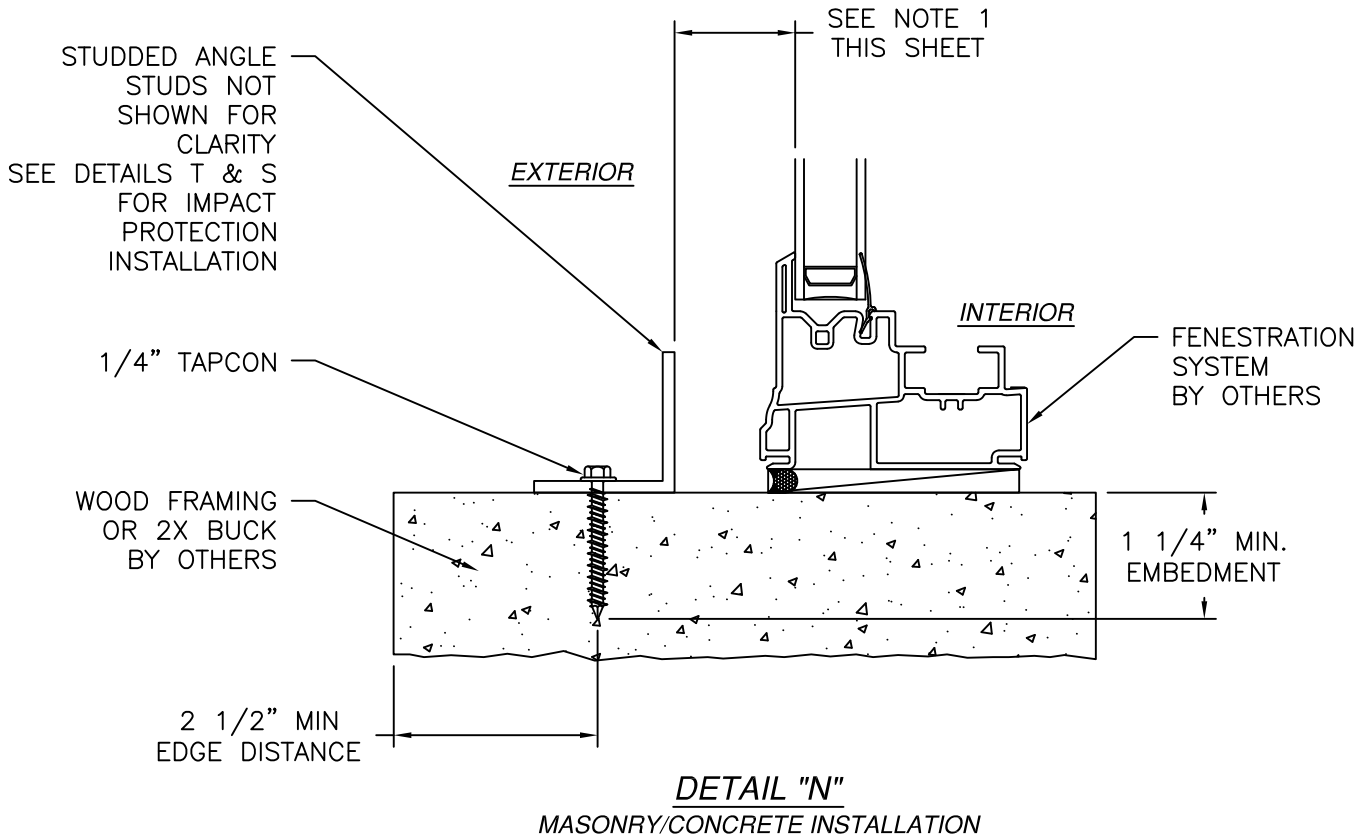
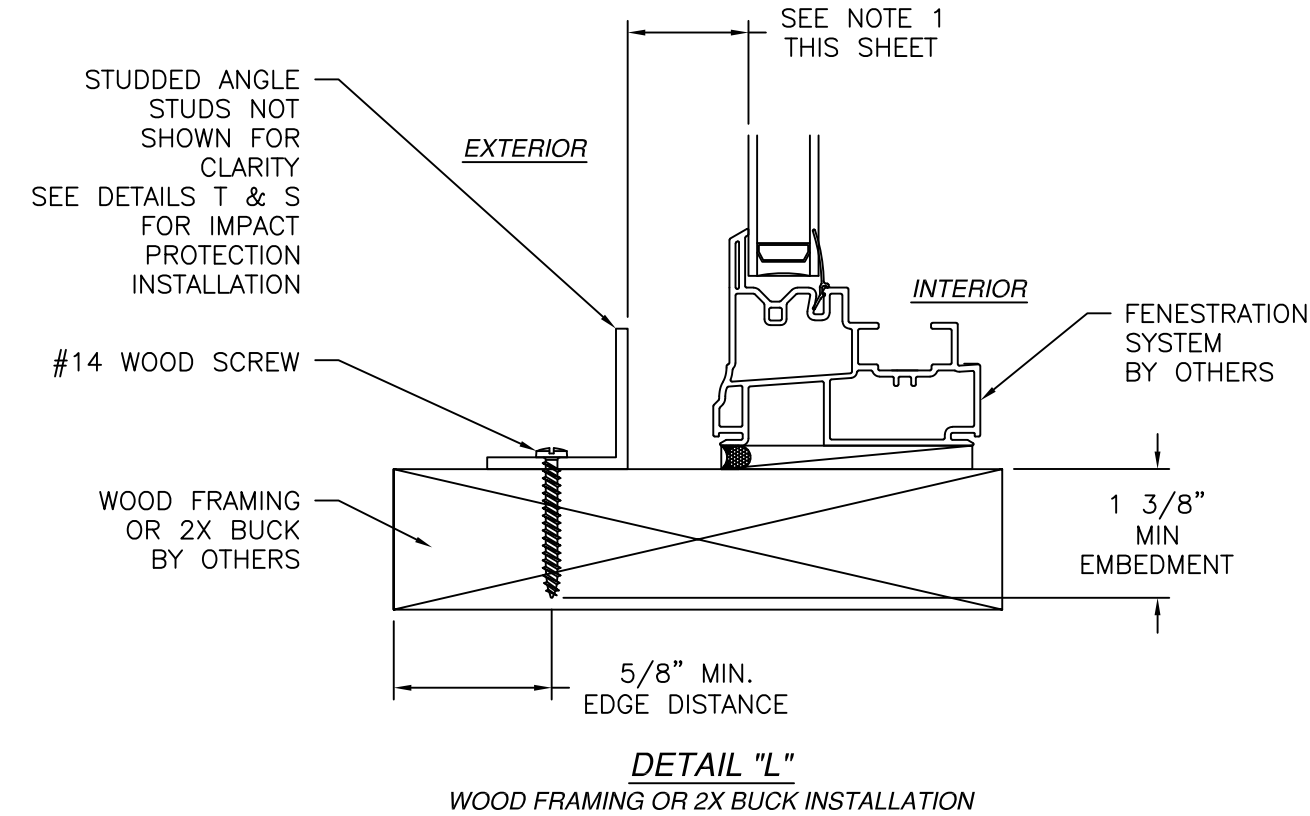
L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

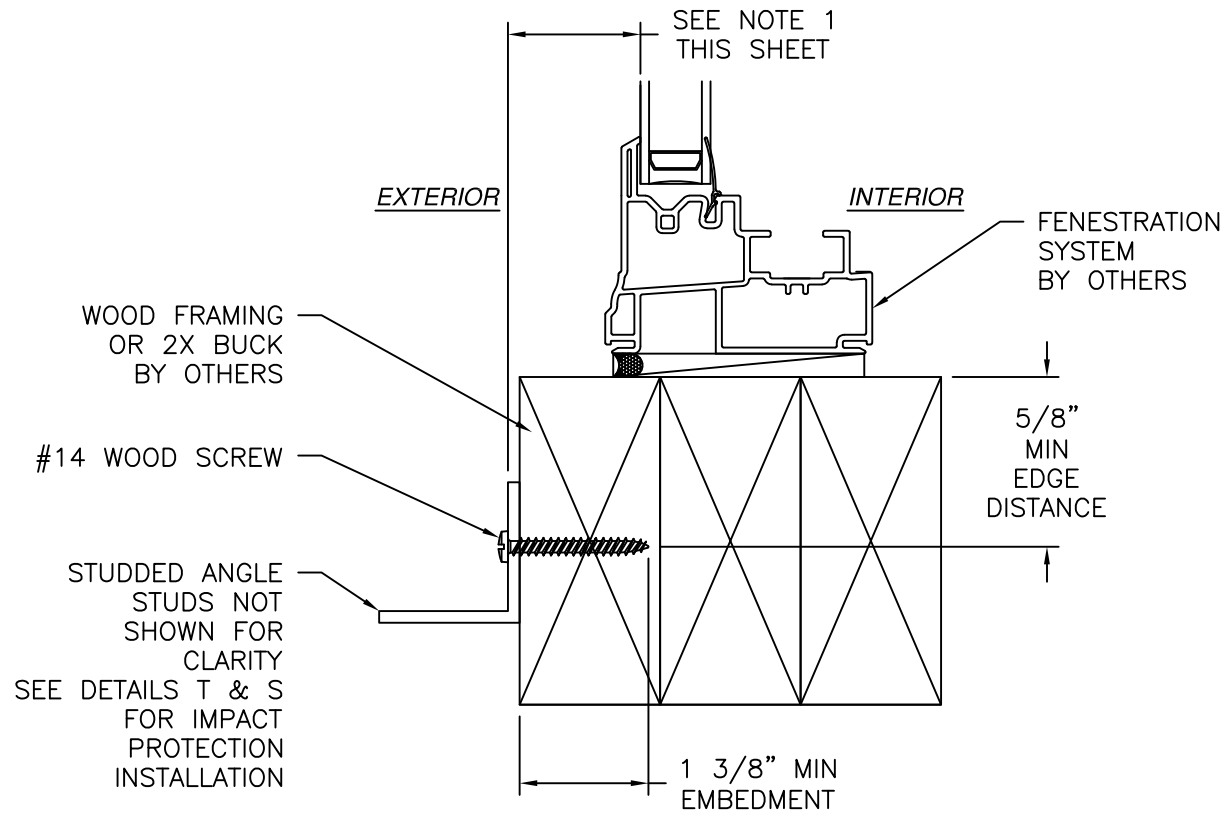
434-688-0609 rllomas@lrlomaspe.com



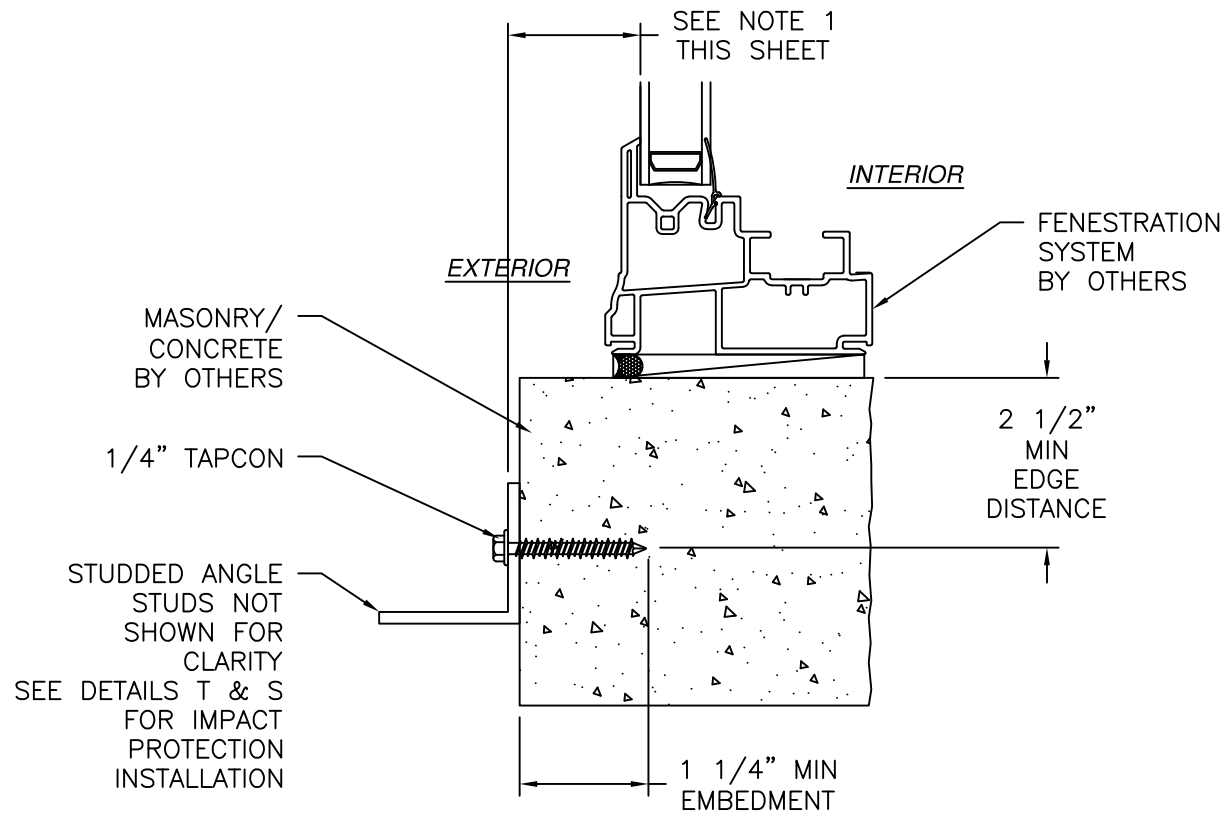
Luis R. Lomas P.E.
FL No.: 62514



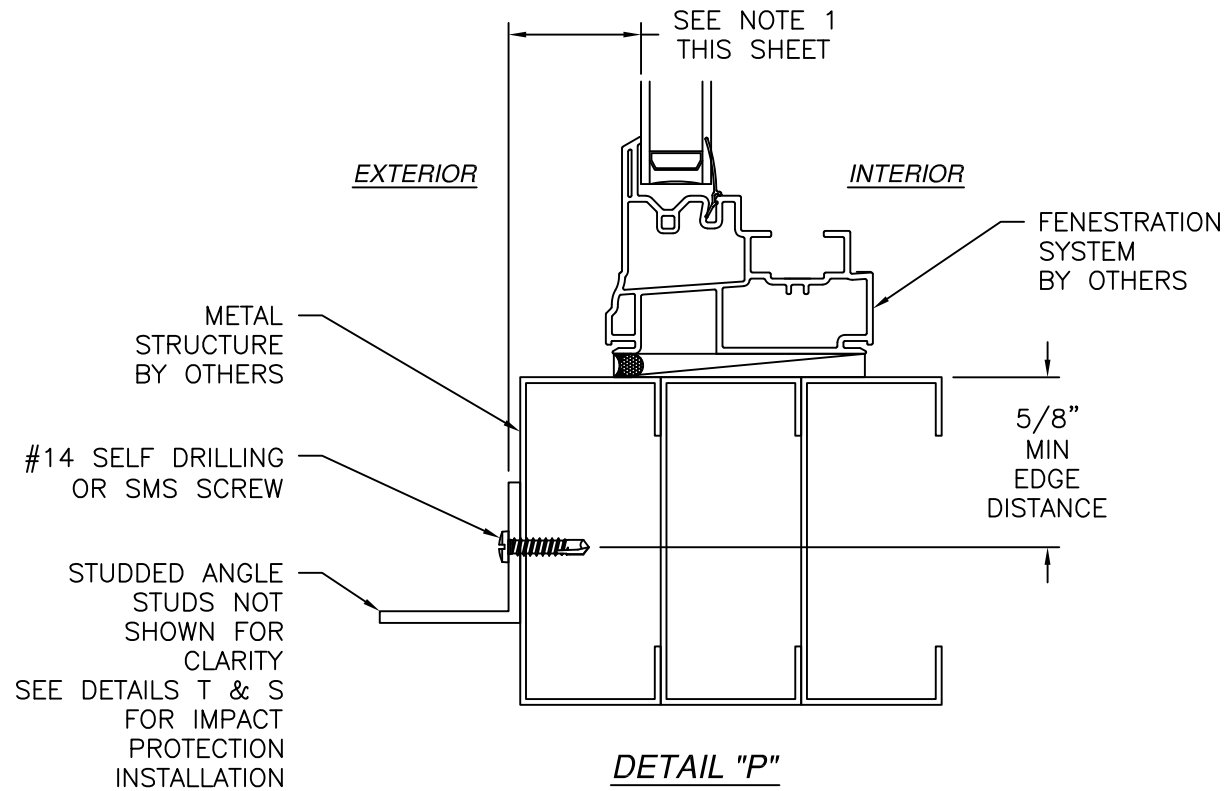
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	09/26/18	R.L.
B	REVISED ANCHORS	05/06/2022	R.L.



DETAIL "O"
WOOD FRAMING OR 2X BUCK INSTALLATION



DETAIL "Q"
MASONRY/CONCRETE INSTALLATION

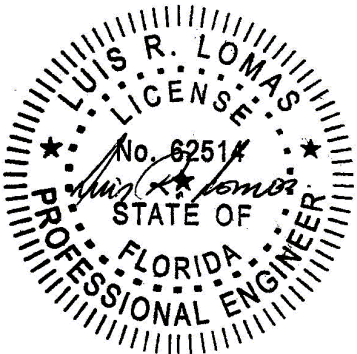


DETAIL "P"
METAL STRUCTURE INSTALLATION

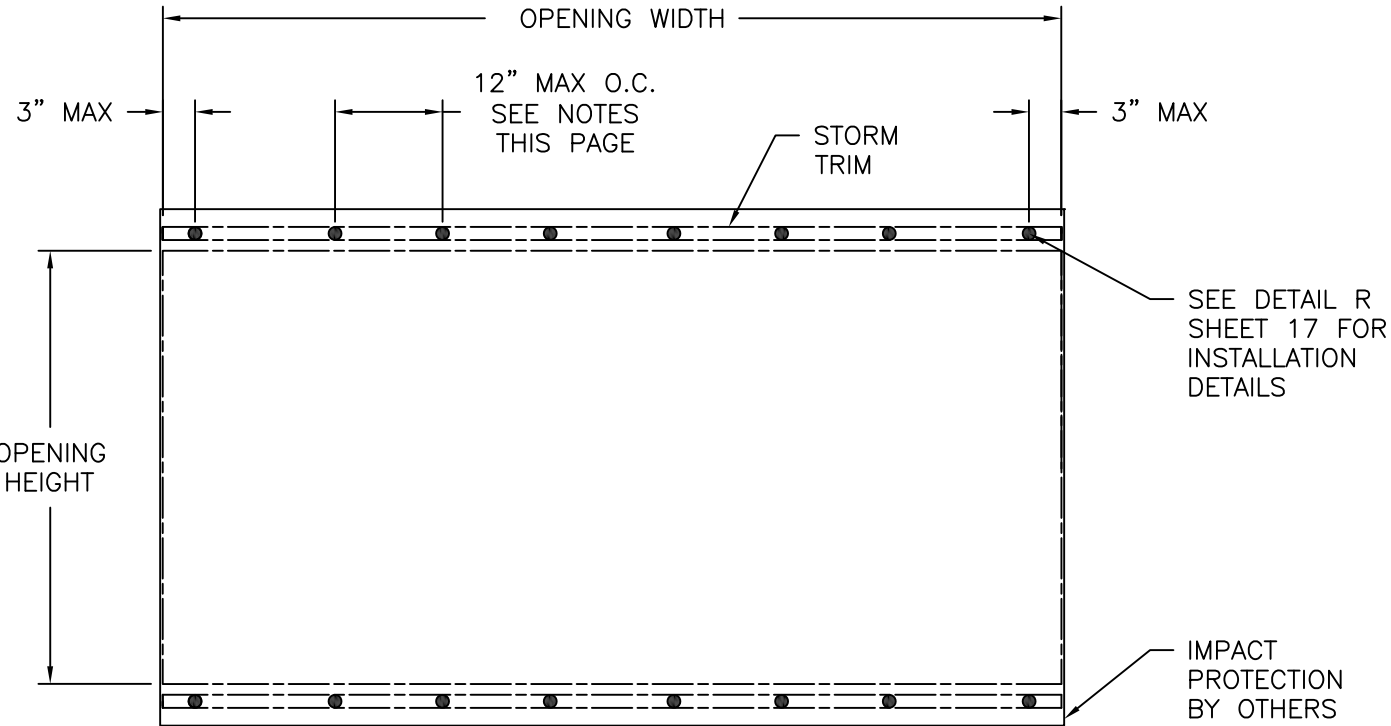
- NOTES:
- SEPARATION BETWEEN FENESTRATION GLASS AND IMPACT PROTECTIVE SYSTEM TO BE IN ACCORDANCE WITH PROTECTIVE SYSTEM APPROVAL AND LIMITATIONS.

SIGNED: 09/21/2026

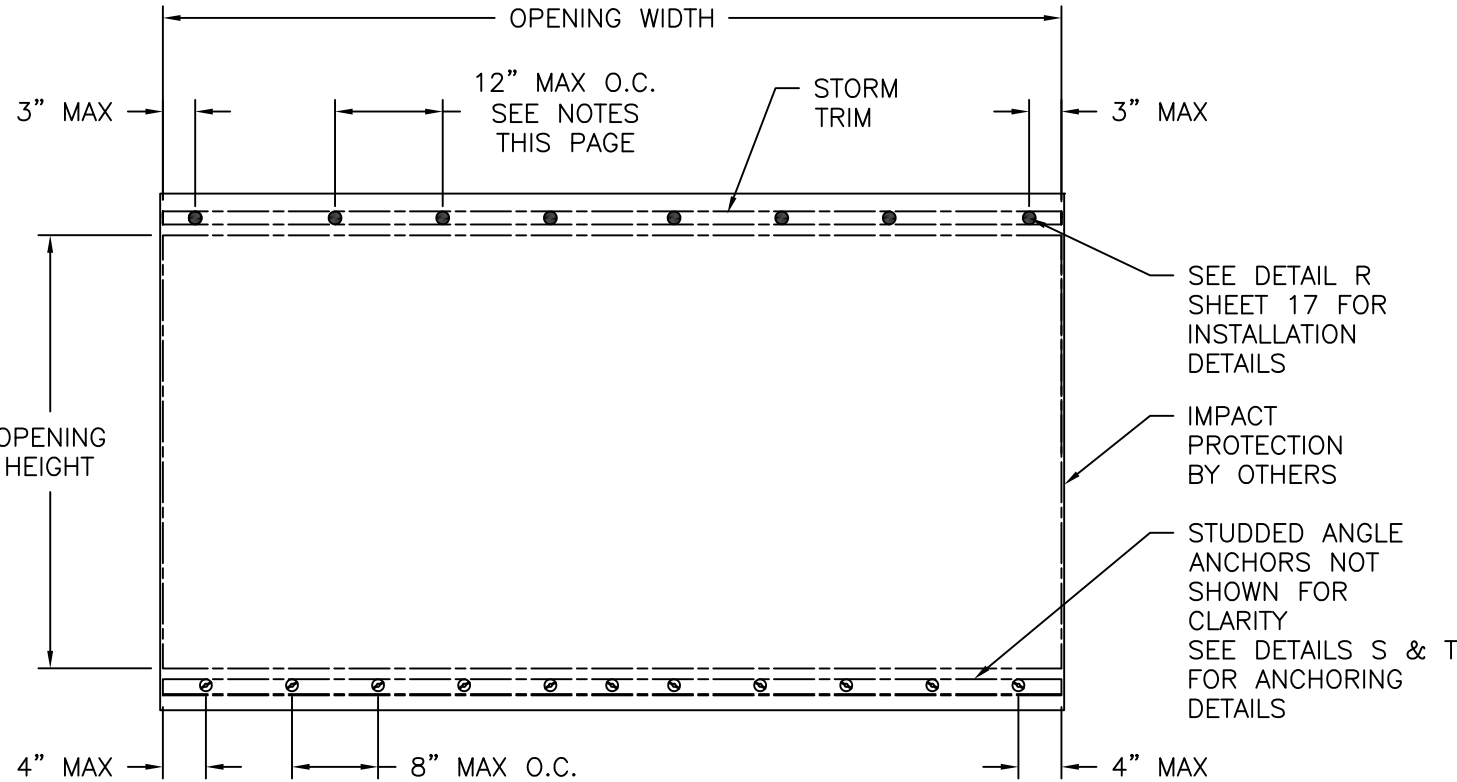
THE MUHLER COMPANY 630 SKYLARK DRIVE SUITE U CHARLESTON , SC 29407		
STORM TRIM PLUS LARGE AND SMALL MISSILE IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03209	REV B
SCALE NTS	DATE 11/14/17	SHEET 14 OF 18
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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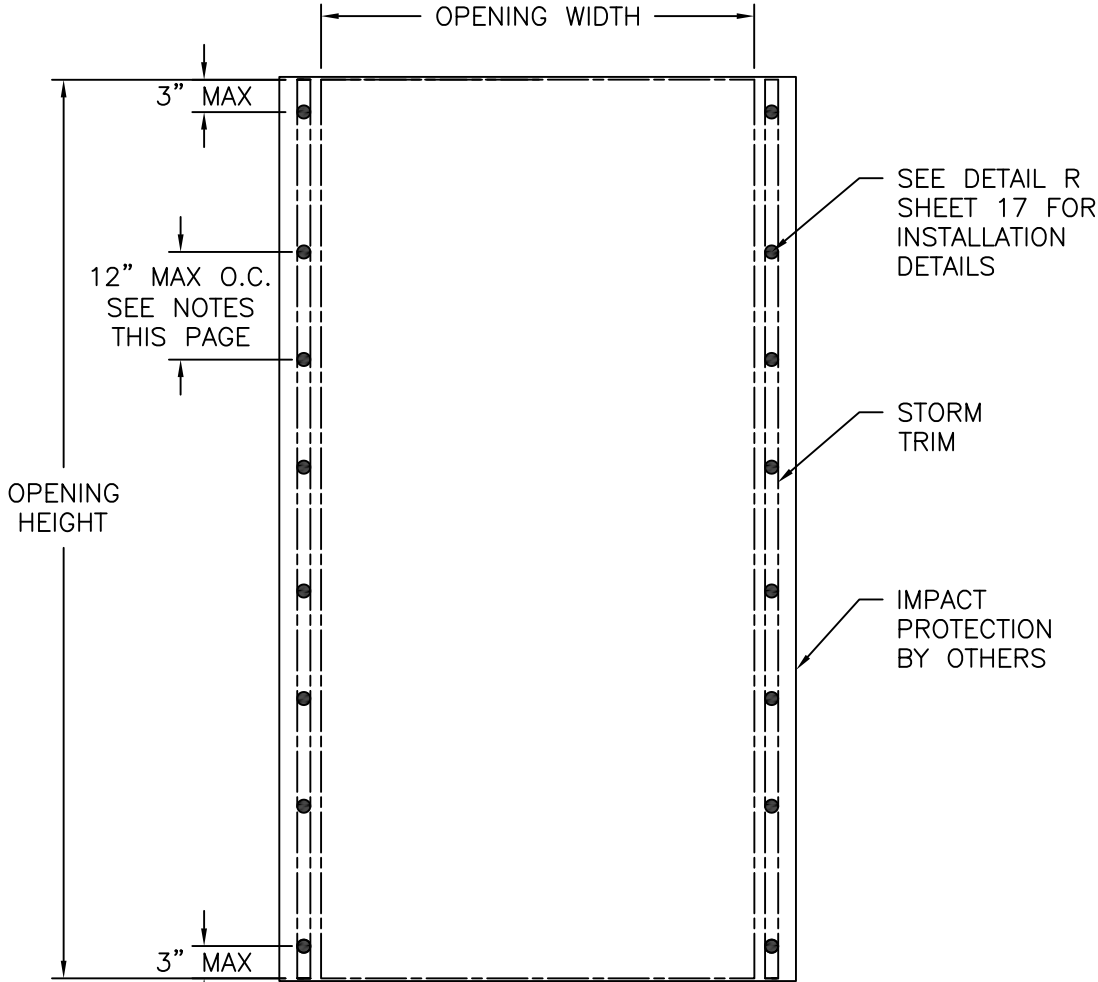


STORM TRIM WITH PROTECTION
EXTERIOR VIEW
REFER TO SHEETS 2 & 3 FOR RATINGS AND SPACINGS



STORM TRIM WITH PROTECTION
EXTERIOR VIEW
REFER TO SHEETS 2 & 3 FOR RATINGS AND SPACINGS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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STORM TRIM WITH PROTECTION
EXTERIOR VIEW
REFER TO SHEETS 2 & 3 FOR RATINGS AND SPACINGS

- NOTES:
1. MAXIMUM O.C. SPACING MUST NOT EXCEED 12"
 2. MAXIMUM O.C. SPACING TO BE IN ACCORDANCE WITH IMPACT PROTECTION SYSTEM APPROVED ANCHORING

SIGNED: 09/21/2026

THE MUHLER COMPANY
630 SKYLARK DRIVE SUITE U
CHARLESTON , SC 29407

STORM TRIM PLUS
LARGE AND SMALL MISSILE IMPACT
IMPACT PROTECTION INSTALLATION DETAILS

DRAWN:
A.R.

DWG NO.
08-03209

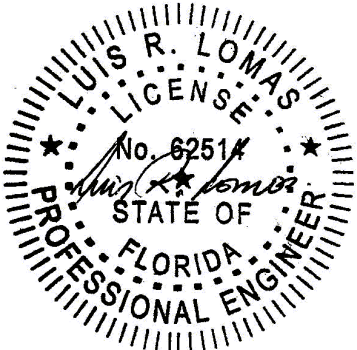
REV
B

SCALE
NTS

DATE
11/14/17

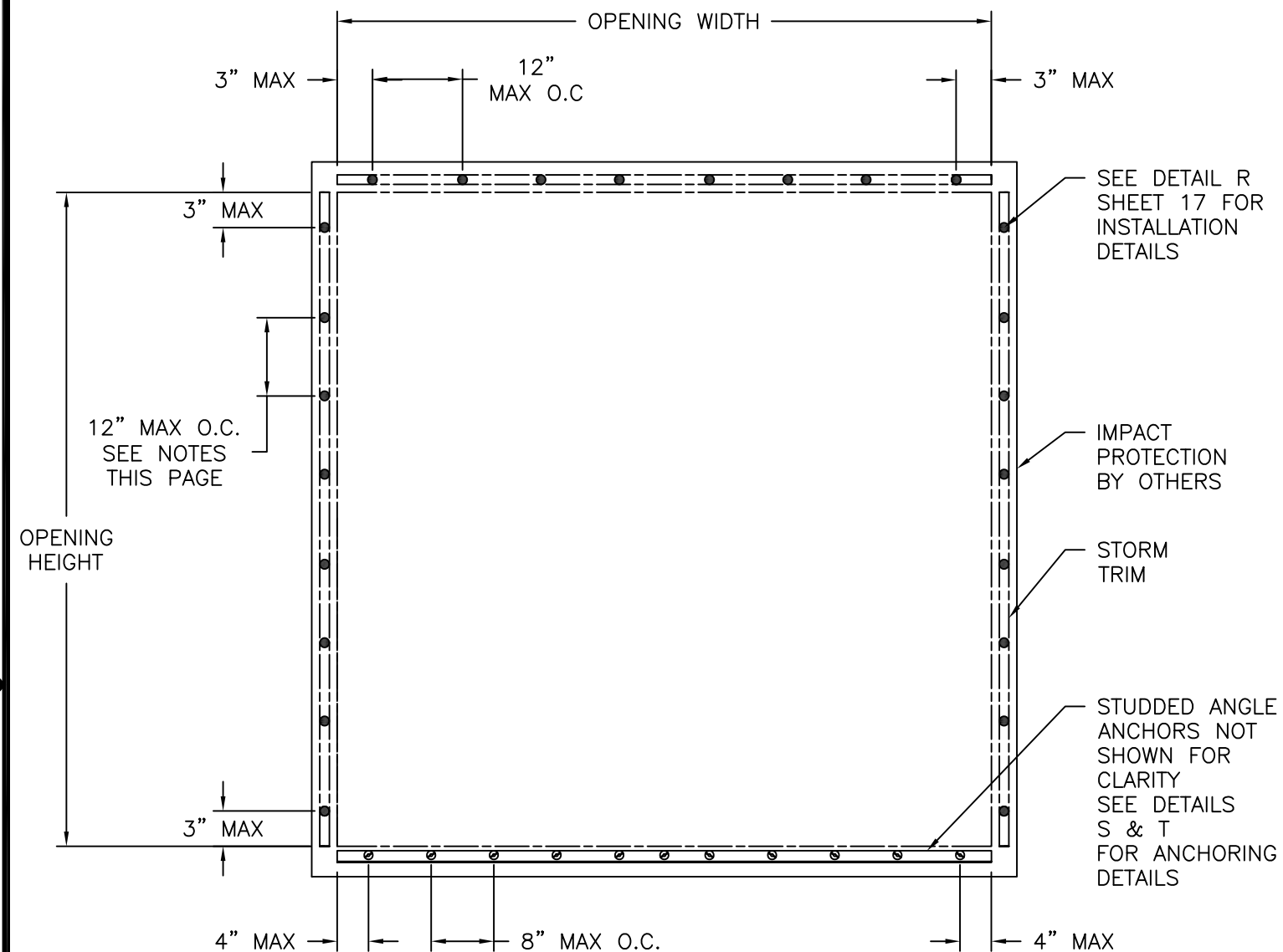
SHEET
15 OF 18

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

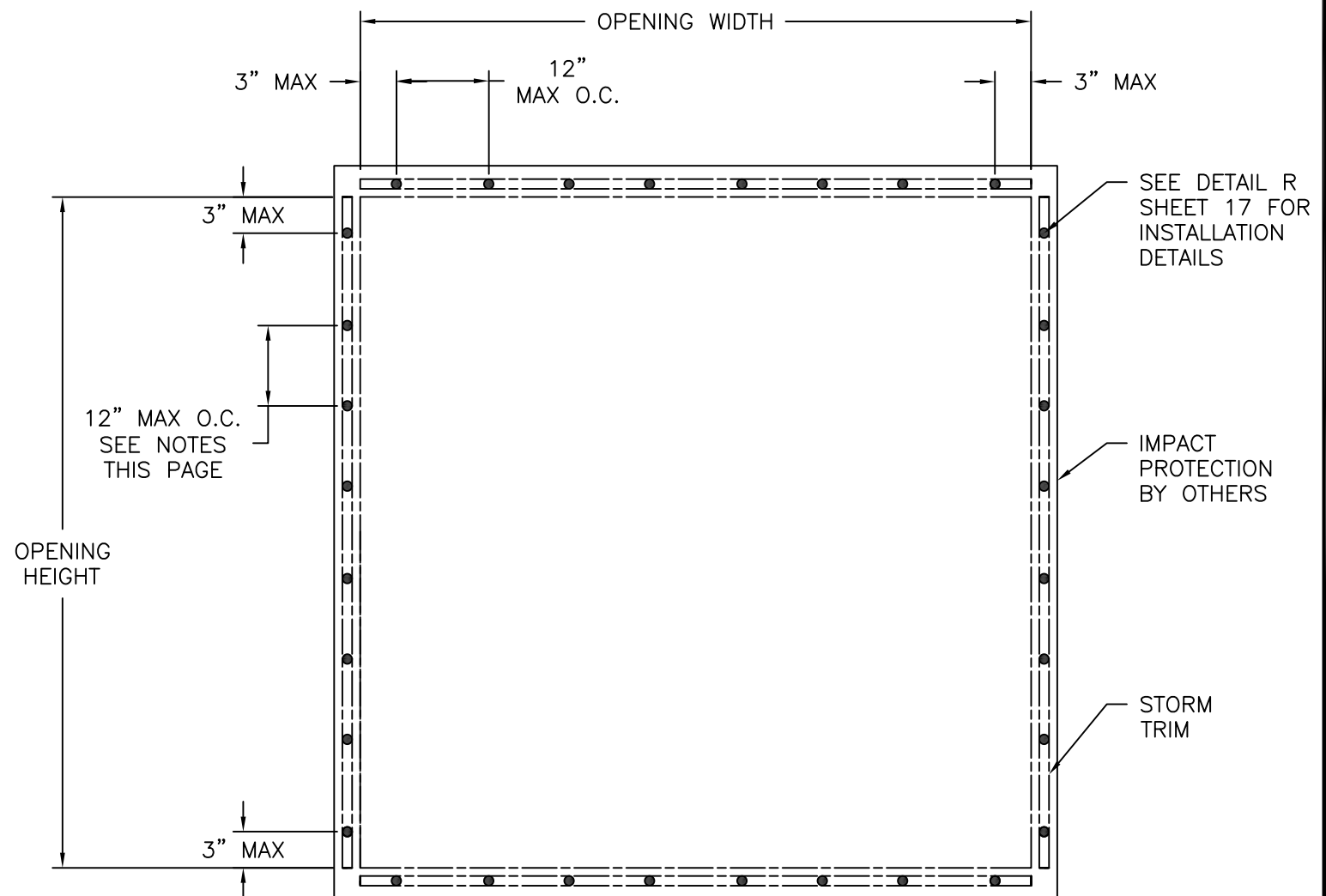


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FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	09/26/18	R.L.
B	REVISED ANCHORS	05/06/2022	R.L.



STORM TRIM WITH PROTECTION
EXTERIOR VIEW
REFER TO SHEETS 5 & 6 FOR RATINGS AND SPACINGS



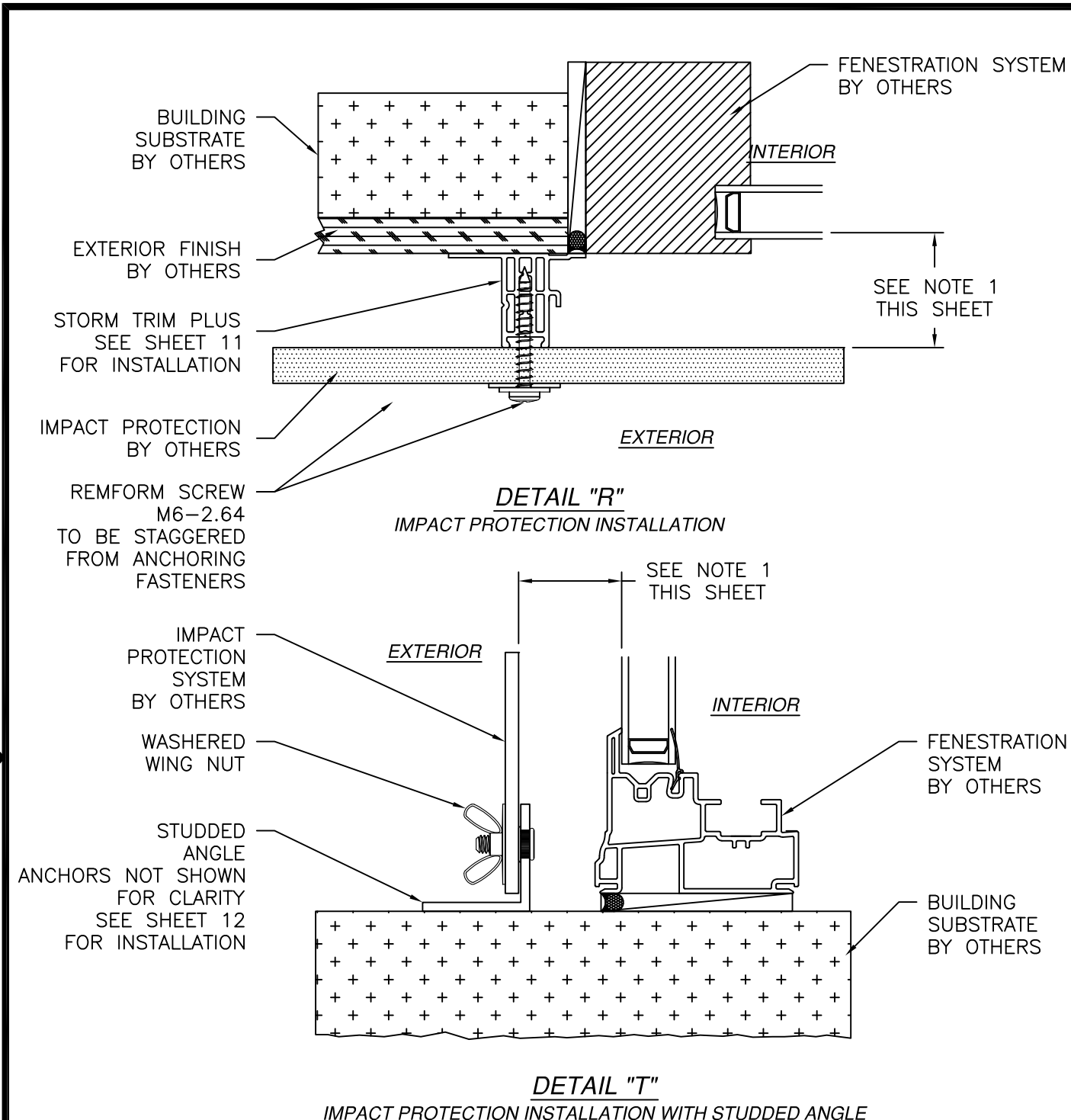
STORM TRIM WITH PROTECTION
EXTERIOR VIEW
REFER TO SHEETS 5 & 6 FOR RATINGS AND SPACINGS

- NOTES:
1. MAXIMUM O.C. SPACING MUST NOT EXCEED 12"
 2. MAXIMUM O.C. SPACING TO BE IN ACCORDANCE WITH IMPACT PROTECTION SYSTEM APPROVED ANCHORING

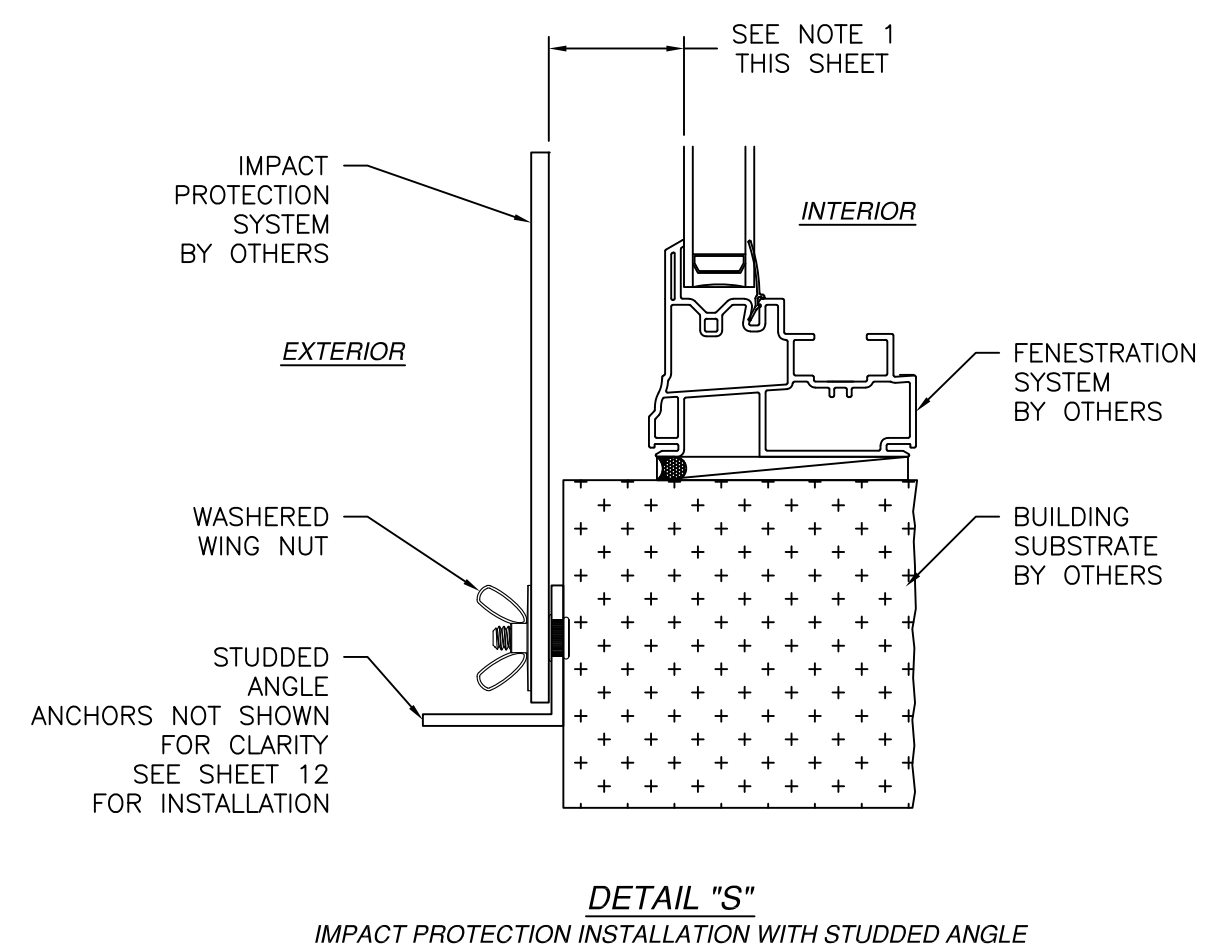
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THE MUHLER COMPANY 630 SKYLARK DRIVE SUITE U CHARLESTON , SC 29407		
STORM TRIM PLUS LARGE AND SMALL MISSILE IMPACT IMPACT PROTECTION INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03209	REV B
SCALE NTS	DATE 11/14/17	SHEET 16 OF 18
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	09/26/18	R.L.
B	REVISED ANCHORS	05/06/2022	R.L.



NOTES:
1. SEPARATION BETWEEN FENESTRATION GLASS AND IMPACT PROTECTIVE SYSTEM TO BE IN ACCORDANCE WITH PROTECTIVE SYSTEM APPROVAL AND LIMITATIONS.

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THE MUHLER COMPANY
630 SKYLARK DRIVE SUITE U
CHARLESTON , SC 29407

STORM TRIM PLUS
LARGE AND SMALL MISSILE IMPACT
IMPACT PROTECTION INSTALLATION DETAILS

DRAWN: A.R. DWG NO. 08-03209 REV B

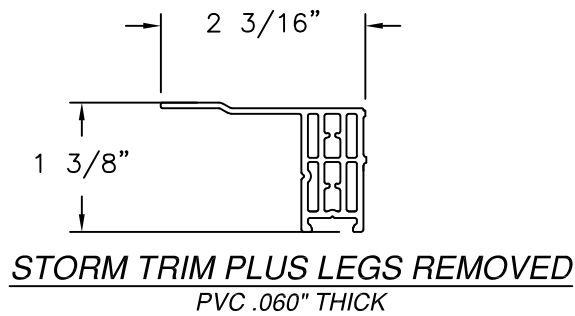
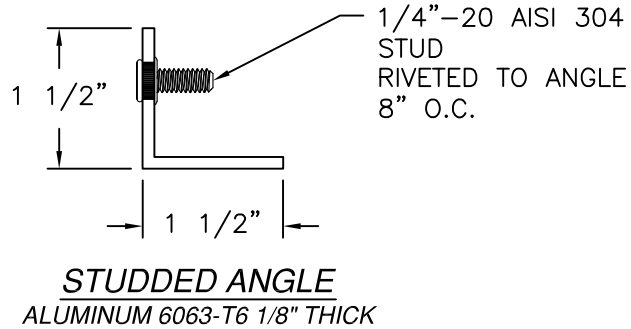
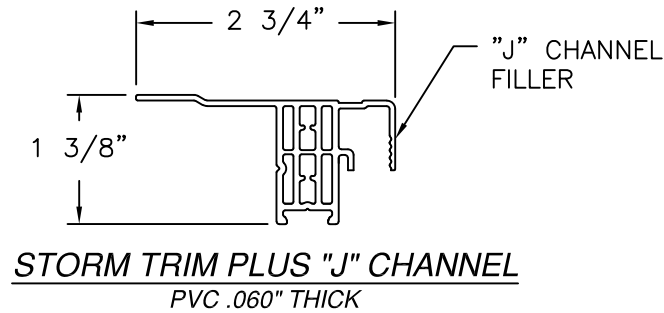
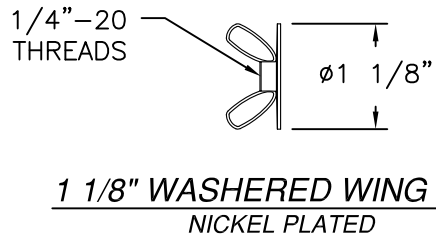
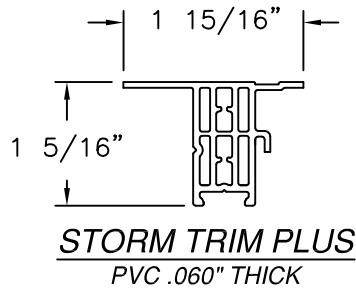
SCALE NTS DATE 11/14/17 SHEET 17 OF 18

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LUIS R. LOMAS
No. 62514
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	09/26/18	R.L.
B	REVISED ANCHORS	05/06/2022	R.L.



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THE MUHLER COMPANY 630 SKYLARK DRIVE SUITE U CHARLESTON , SC 29407		
STORM TRIM PLUS LARGE AND SMALL MISSILE IMPACT COMPONENTS		
DRAWN: A.R.	DWG NO. 08-03209	REV B
SCALE NTS	DATE 11/14/17	SHEET 18 OF 18
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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