

**GENERAL NOTES:**

- G-01 IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THE LOUVERS.
- G-02 THESE LOUVER SYSTEMS HAVE BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 2018 IRC, 2018 IBC, AMCA 540 ENHANCED LEVEL E IMPACT (EQUIVALENT TO ASTM E 1996-04 LEVEL E), AND FLORIDA BUILDING CODE PROTOCOLS TAS-201 LARGE MISSILE, TAS-202, AND TAS-203 FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
- G-03 EACH LOUVER ASSEMBLY SHALL BE PERMANENTLY LABELED AS FOLLOWS:  
INDUSTRIAL LOUVERS, INC. MODEL SP537DC  
DELANO, MN  
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
- G-04 ALL CONCRETE SUBSTRATE SHALL BE MINIMUM 4000 PSI.
- G-05 ALL GROUT FILLED CMU SUBSTRATE SHALL BE MINIMUM 1500 PSI.
- G-06 ALL WOOD SUBSTRATE SHALL BE MINIMUM G = 0.55 DENSITY.
- G-07 ALL METAL STUD SUBSTRATE SHALL BE MINIMUM 16 GAUGE Fy = 33 KSI.
- G-08 ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MINIMUM Fy = 46 KSI.
- G-09 PANEL WIDTHS AND HEIGHTS ARE LIMITED AS SHOWN ON SHEETS 2 AND 3.
- G-10 PANELS MAY BE HORIZONTALLY STACKED TO AN UNLIMITED WIDTH. VERTICAL STACKING MAY OCCUR PROVIDING A STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO WITHSTAND ALL LOADS IMPOSED BY THE LOUVERS. SINGLE NON-REINFORCED PANELS MAY BE STACKED VERTICALLY TO AN UNLIMITED HEIGHT.
- G-11 SEPARATION OF DISSIMILAR METALS IS THE RESPONSIBILITY OF THE INSTALLER.
- G-12 THIS LOUVER TO BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVER IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM, AND THE ROOM WILL HOUSE WATER RESISTANT OR WATER PROOF EQUIPMENT, COMPONENTS, AND/OR SUPPLIES.

**KEY NOTES:**

- K-01 SHELF ANGLES ATTACHED TO SURROUNDINGS PER SHELF ANGLE ANCHOR SCHEDULE. SHELF ANGLES WILL ONLY BE SUPPLIED IF THE PROJECT CONDITIONS REQUIRE IT.
- K-10 4" LONG 3 1/2" X 6" X 3/8" CLIP ANGLES ATTACHED TO SURROUNDINGS PER MULLION ANCHOR SCHEDULE.
- K-11 MULLION CLIP ANGLES ATTACHED TO VERTICAL CHANNELS W/ (4) 1/2" X 2 1/2" SS THRU BOLTS.
- K-12 VERTICAL CHANNELS FASTENED TOGETHER W/ 1/4" X 1" SS THRU BOLTS AT 24" O.C.
- K-13 1/4" X 1 1/4" GASKET TAPE APPLIED BETWEEN VERTICAL CHANNELS.
- K-21 4" LONG 2" X 2" X 1/8" CLIP ANGLES ANCHORED TO SURROUNDINGS AT NO MORE THAN 12" O.C. PER JAMB ANCHOR SCHEDULE.
- K-22 JAMB CLIP ANGLES ATTACHED TO SIDE FRAMES W/ (2) #12 X 1" SS SCREWS PER CLIP ANGLE.
- K-31 VERTICAL CHANNELS ATTACHED TO EACH BLADE AND EACH BLADE BRACE W/ (1) #10 X 1" SS SCREW.
- K-32 BOTTOM FRAME ATTACHED TO SIDE FRAMES W/ (2) #8 X 5/8" SS SCREWS PER SIDE FRAME.
- K-33 BLADES ATTACHED TO SIDE FRAMES W/ (3) #10 X 1" SS SCREWS PER BLADE END.
- K-34 TOP FRAME ATTACHED TO SIDE FRAMES W/ (2) #8 X 5/8" SS SCREWS PER SIDE FRAME.
- K-41 BACKER ROD AND SEALANT APPLIED AROUND THE PERIMETER OF EACH LOUVER AFTER INSTALLATION.

**SHELF ANGLE ANCHOR SCHEDULE (SEE SHEET 5)**

| ITEM  | ANCHOR QUANTITY   | ANCHOR DESCRIPTION                      | MAX. LOUVER HEIGHT | SHELF ANGLE | SUBSTRATE        | MIN. EMB. | MIN. EDGE DIST. | MIN. SPACING |
|-------|-------------------|---|--------------------|-------------|------------------|-----------|-----------------|--------------|
| SA11  | 2 PER SHELF ANGLE | 1/2" DIA. S.S. HILTI KWIK BOLT TZ2      | 60"                | ITEM 34     | CONCRETE         | 3"        | 3"              | 13" O.C.     |
| SA12  | 2 PER SHELF ANGLE | HILTI HIT-HY 200 WITH 1/2" DIA. HIT-Z-R | 108"               | ITEM 34     | CONCRETE         | 5 3/4"    | 3"              | 13" O.C.     |
| SA13  | 3 PER SHELF ANGLE | HILTI HIT-HY 200 WITH 1/2" DIA. HIT-Z-R | 135"               | ITEM 35     | CONCRETE         | 5 3/4"    | 3"              | 10" O.C.     |
| SA14  | 4 PER SHELF ANGLE | HILTI HIT-HY 200 WITH 1/2" DIA. HIT-Z-R | 154"               | ITEM 36     | CONCRETE         | 5 3/4"    | 3"              | 8" O.C.      |
| SA21  | 2 PER SHELF ANGLE | 1/2" DIA. S.S. BOLT                     | 108"               | ITEM 34     | 1/4" THICK STEEL | ---       | 3"              | 13" O.C.     |
| SA22  | 3 PER SHELF ANGLE | 1/2" DIA. S.S. BOLT                     | 154"               | ITEM 34     | 1/4" THICK STEEL | ---       | 3"              | 5" O.C.      |
| SA31* | 4 PER SHELF ANGLE | 1/2" DIA. S.S. HILTI KWIK BOLT TZ       | 108"               | ITEM 36     | CONCRETE         | 3 5/8"    | 3"              | 8" O.C.      |

\* INDICATES NON-STANDARD CONFIGURATION. AVAILABLE UPON SPECIAL REQUEST ONLY.

**MULLION ANCHOR SCHEDULE**

| ITEM  | ANCHOR QUANTITY | ANCHOR DESCRIPTION                 | CLIP ANGLE | SUBSTRATE        | SLAB THICKNESS | MIN. EMB. | MIN. EDGE DIST. | MIN. SPACING |
|-------|-----------------|------------------------------------|------------|------------------|----------------|-----------|-----------------|--------------|
| MA11  | 1 PER CLIP      | 1/2" DIA. S.S. HILTI KWIK BOLT TZ2 | ITEM 32    | CONCRETE         | 8"             | 3 5/8"    | 6 1/2"          | 5 1/2" O.C.  |
| MA12  | 1 PER CLIP      | 1/2" DIA. S.S. BOLT                | ITEM 32    | 1/4" THICK STEEL | ---            | ---       | 1"              | 1" O.C.      |
| MA13* | 4 PER CLIP      | 1/2" DIA. S.S. LAGBOLT             | ITEM 33    | WOOD             | ---            | 5 1/2"    | 1"              | 1 1/4" O.C.  |

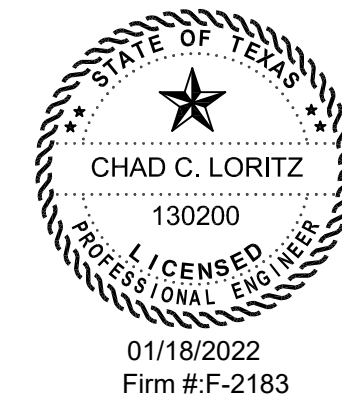
\* INDICATES NON-STANDARD CONFIGURATION. AVAILABLE UPON SPECIAL REQUEST ONLY.

**JAMB ANCHOR SCHEDULE**

| ITEM | QUANTITY   | DESCRIPTION                        | CLIP ANGLE | SUBSTRATE         | MIN. EMB. | MIN. EDGE DIST. | MIN. SPACING |
|------|------------|------------------------------------|------------|-------------------|-----------|-----------------|--------------|
| JA11 | 2 PER CLIP | HILTI HUS-HR M6                    | ITEM 31    | CONCRETE          | 2 3/16"   | 1 1/2"          | 2 3/4" O.C.  |
| JA12 | 1 PER CLIP | 1/4" DIA. S.S. HILTI KWIK BOLT III | ITEM 31    | CONC. BLOCK       | 2"        | 4"              | 8" O.C.      |
| JA13 | 2 PER CLIP | 1/4" DIA. S.S. SELF-DRILLING SCREW | ITEM 31    | 3/16" THICK STEEL | ---       | 1"              | 2 3/4" O.C.  |
| JA14 | 3 PER CLIP | 1/4" DIA. S.S. SELF-DRILLING SCREW | ITEM 31    | 16 GA. STL STUDS  | ---       | 1"              | 1 3/8" O.C.  |
| JA15 | 2 PER CLIP | 1/4" DIA. S.S. LAG BOLT            | ITEM 31    | WOOD              | 4"        | 1"              | 2 3/4" O.C.  |

**PARTS LIST (SEE SHEETS 9 - 12)**

| ITEM | DESCRIPTION                                 | PART NUMBER | MATERIAL SPECIFICATIONS    |
|------|---|-------------|----------------------------|
| 01   | LOUVER BOTTOM FRAME                         | FRM1384-M   | 6063-T6 ALUM. 0.081" THICK |
| 02   | LOUVER SIDE FRAME                           | FRM1386-M   | 6063-T6 ALUM. 0.081" THICK |
| 03   | LOUVER TOP FRAME                            | FRM1385-M   | 6063-T6 ALUM. 0.081" THICK |
| 04   | LOUVER BLADE                                | BLD1404     | 6063-T6 ALUM. 0.063" THICK |
| 11   | BLADE BRACE, BOTTOM BLADE, 1" LONG          | HARPUN9160  | 6063-T6 ALUM. 0.156" THICK |
| 12   | BLADE BRACE, TYPICAL, 2" LONG               | HARPUN9164  | 6063-T6 ALUM. 0.156" THICK |
| 21   | 1" X 5" X 2" X 1/8" CHANNEL                 | CHN1046     | 6061-T6 ALUM.              |
| 22   | 1" X 6 5/8" X 2" X 1/8" CHANNEL             | CHN1050     | 6061-T6 ALUM.              |
| 23   | 1" X 7" X 2" X 3/16" CHANNEL                | CHN1060     | 6061-T6 ALUM.              |
| 31   | 4" LONG 2" X 2" X 1/8" CLIP ANGLE           | HAR9335     | 6061-T6 ALUM.              |
| 32   | 4" LONG 3 1/2" X 6" X 3/8" CLIP ANGLE       | HAR9365     | 6061-T6 ALUM.              |
| 33   | 4" LONG 3 1/2" X 6" X 3/8" CLIP ANGLE       | HAR9366     | 6061-T6 ALUM.              |
| 34   | 15" LONG 4" X 6" X 1/2" SHELF ANGLE         | HAR9376     | 6061-T6 ALUM.              |
| 35   | 22" LONG 4" X 6" X 1/2" SHELF ANGLE         | HAR9377     | 6061-T6 ALUM.              |
| 36   | 27" LONG 4" X 6" X 1/2" SHELF ANGLE         | HAR9378     | 6061-T6 ALUM.              |
| 41   | #8 X 5/8" SD PH SM SCREW                    | FAS5042     | 18-8 SS CW TYPE-A          |
| 42   | #10 X 1" SD PH SM SCREW                     | FAS6510     | 18-8 SS CW TYPE-A          |
| 43   | #12 X 1" SL HWH SM SCREW                    | FAS5135     | 18-8 SS CW TYPE-A          |
| 44   | 1/4"-20 X 1" HH BOLT W/ WASHERS AND NUT     | FAS5155     | 18-8 SS CW CAP SCREW       |
| 45   | 1/2"-13 X 2" HH BOLT W/ WASHERS AND NUT     | FAS5185     | 18-8 SS CW CAP SCREW       |
| 46   | 1/2"-13 X 2 1/2" HH BOLT W/ WASHERS AND NUT | FAS5189     | 18-8 SS CW CAP SCREW       |

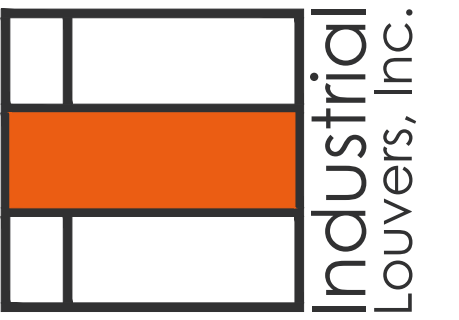


**RICE ENGINEERING**

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This Certification is limited to the structural design of the structural components of this louver system. It does NOT include responsibility for:  
 \* Design of air and water infiltration prevention  
 \* The manufacture, assembly, or installation of the system.  
 \* Quantities of materials or dimensional accuracy of drawings.  
 \* Blank-off Panels.

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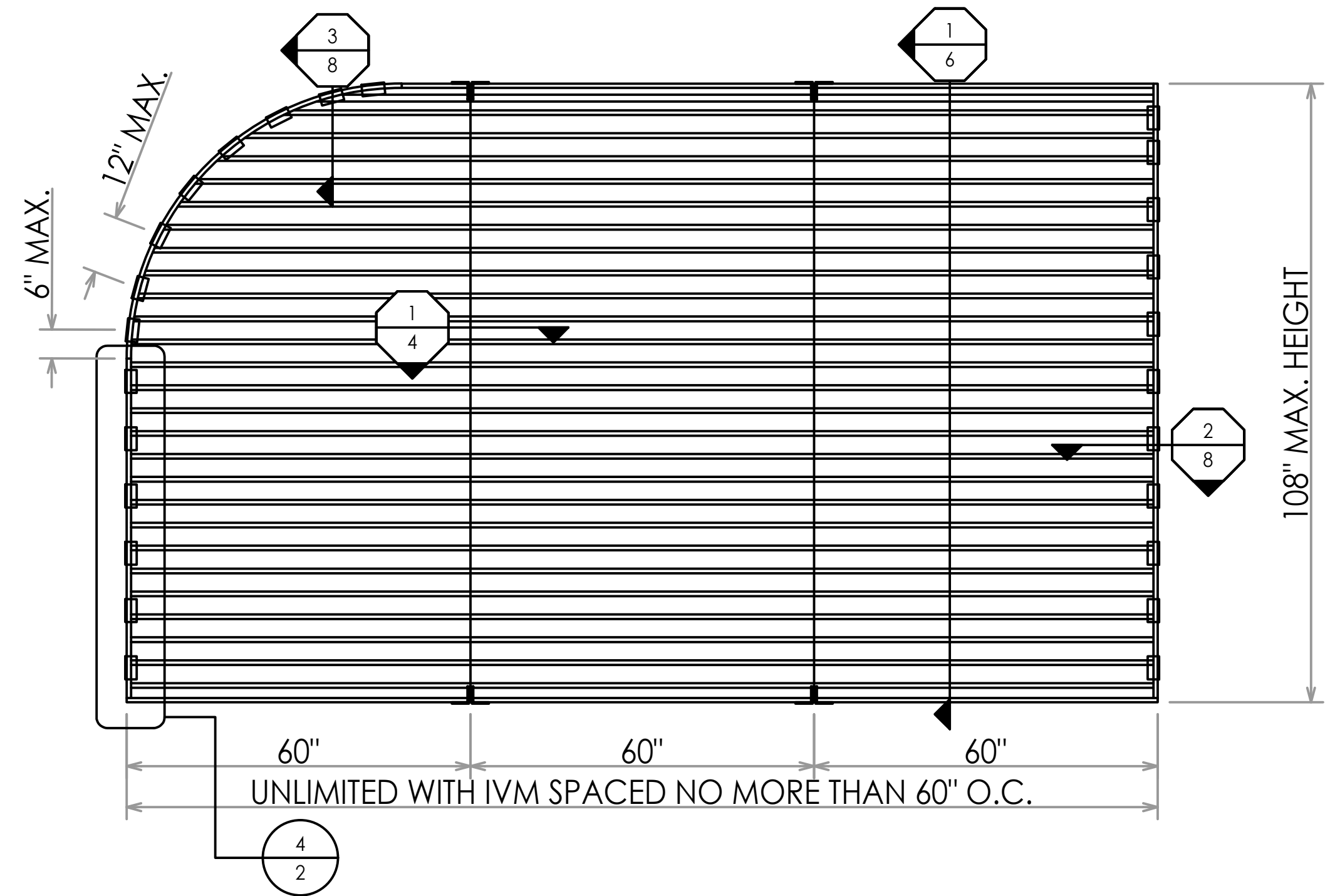


SP537DC  
5" Deep Storm Performance Impact Resistant Louver

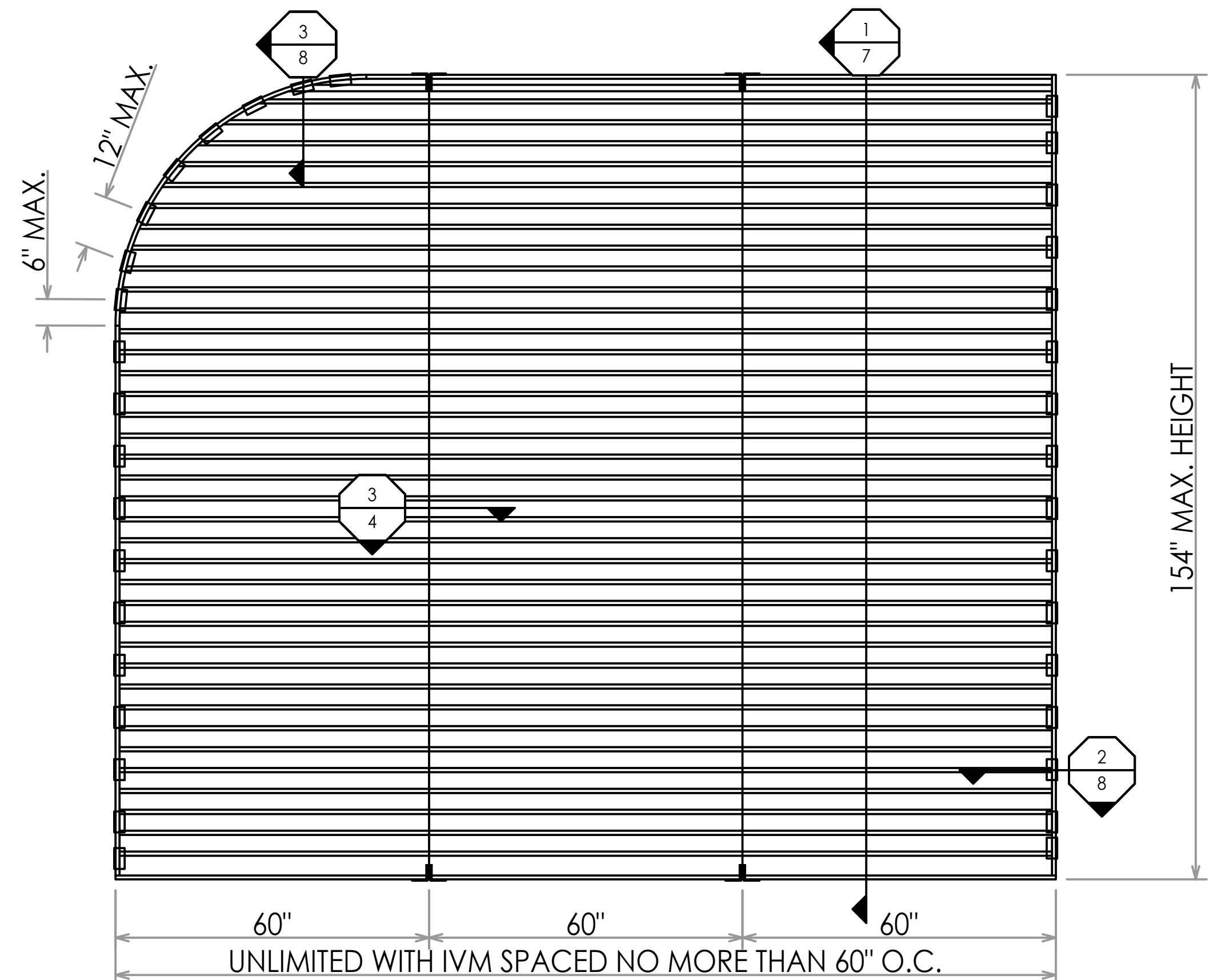
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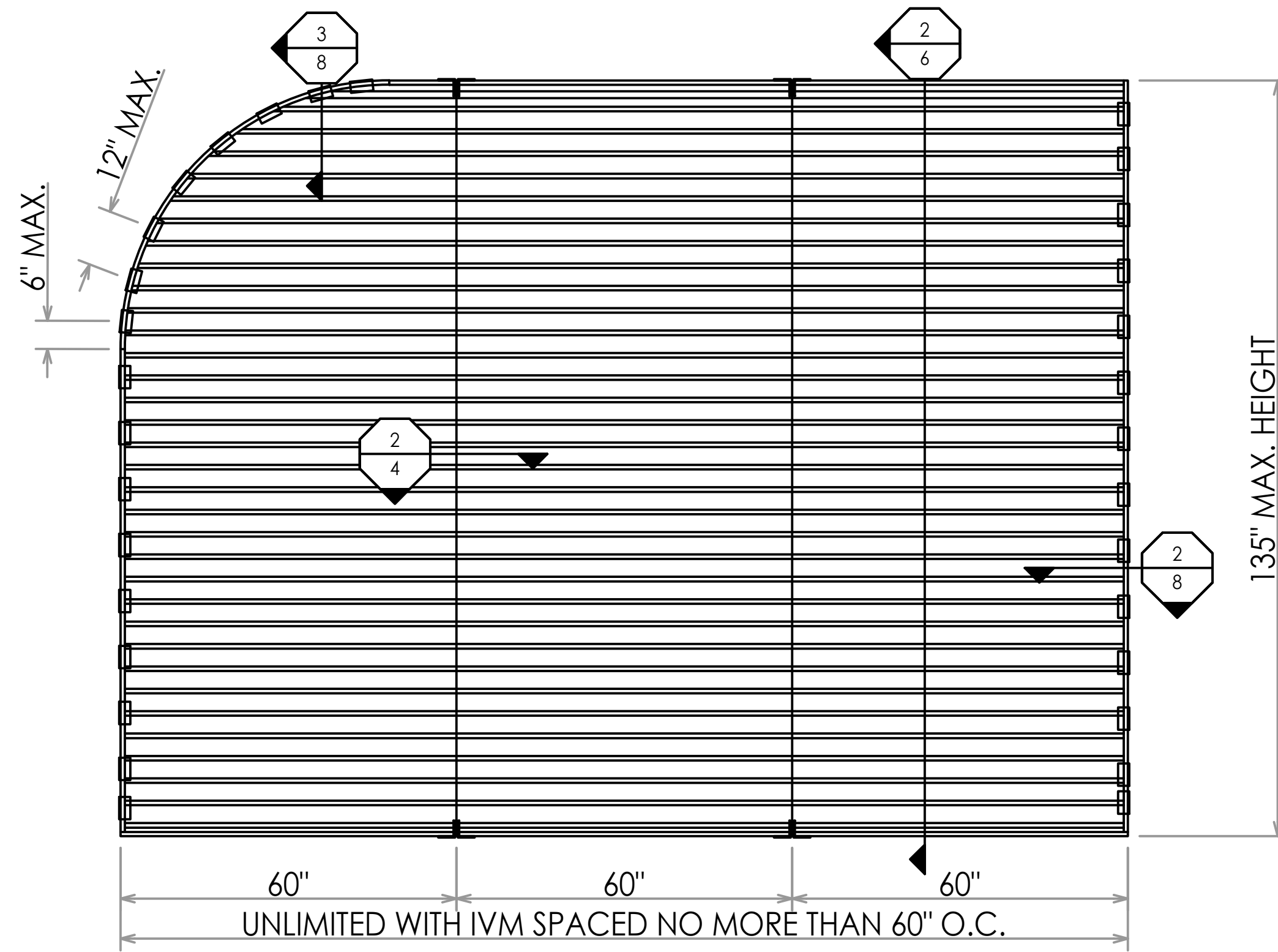
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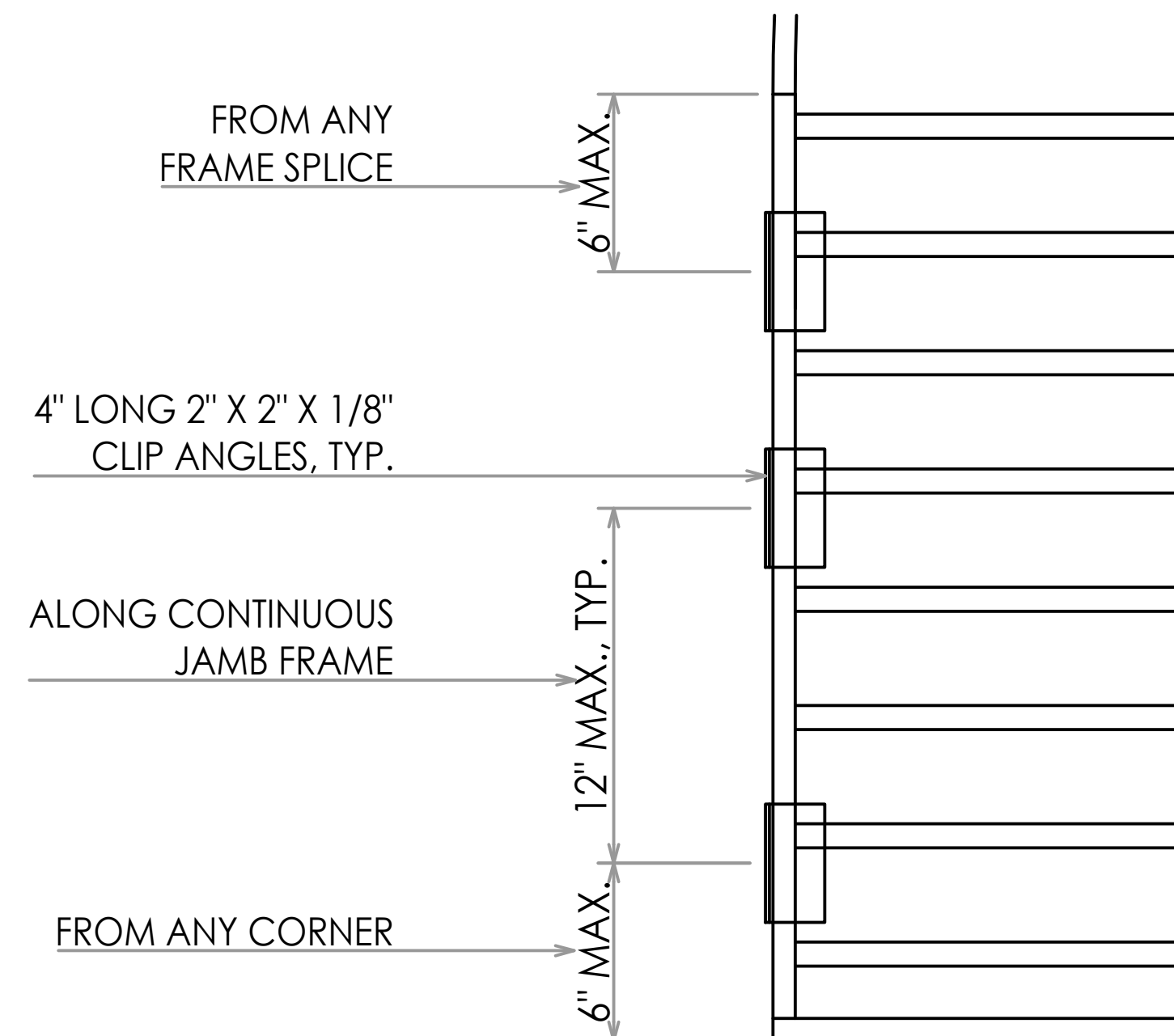
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120 PSF DESIGN PRESSURE



**SPECIMEN #3**  
120 PSF DESIGN PRESSURE

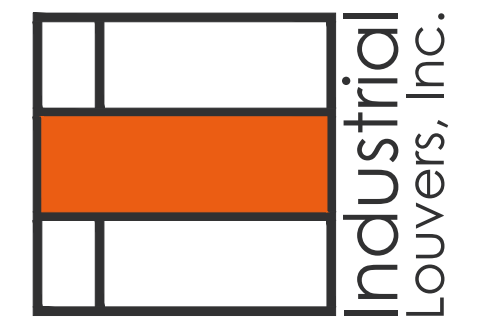


**SPECIMEN #2**  
120 PSF DESIGN PRESSURE



**JAMB ANCHOR LOCATIONS**  
TYPICAL FOR ALL SPECIMENS

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**SP537DC**

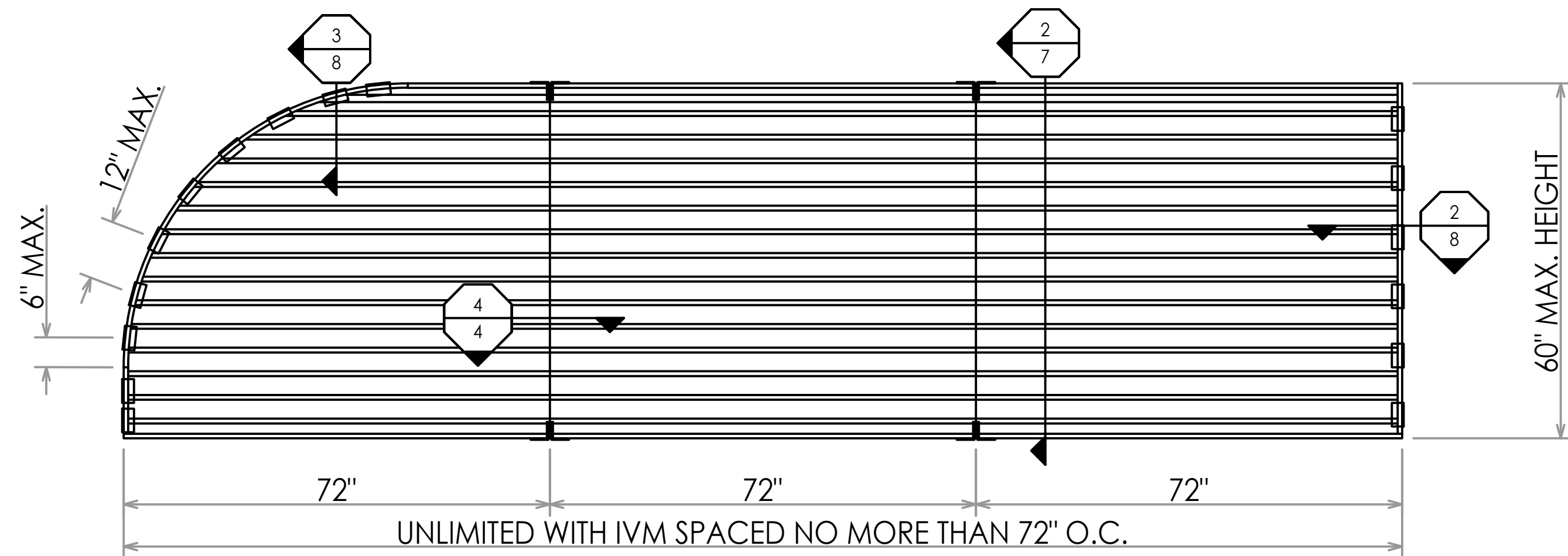
5' Deep Storm Performance Impact Resistant Louver

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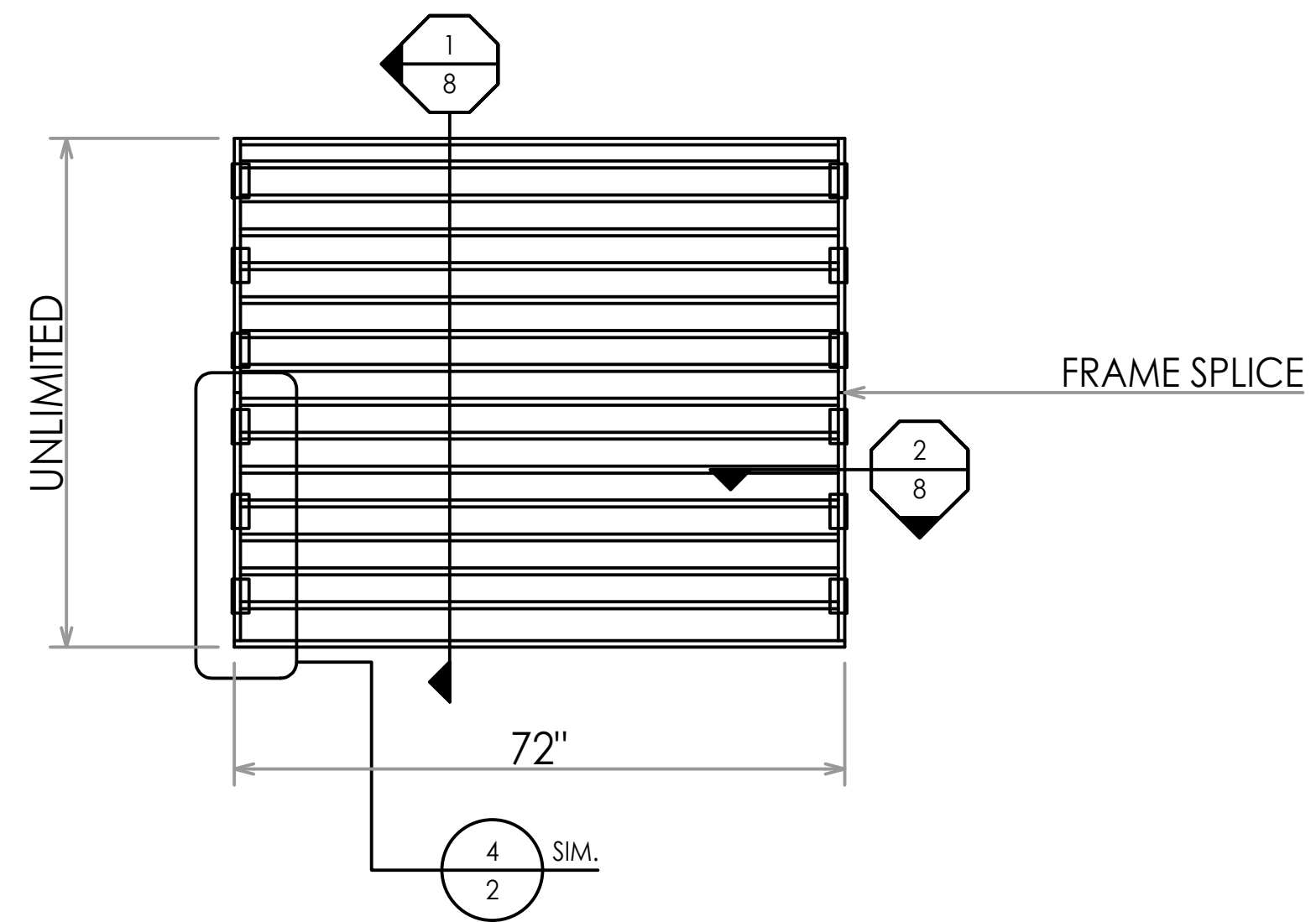
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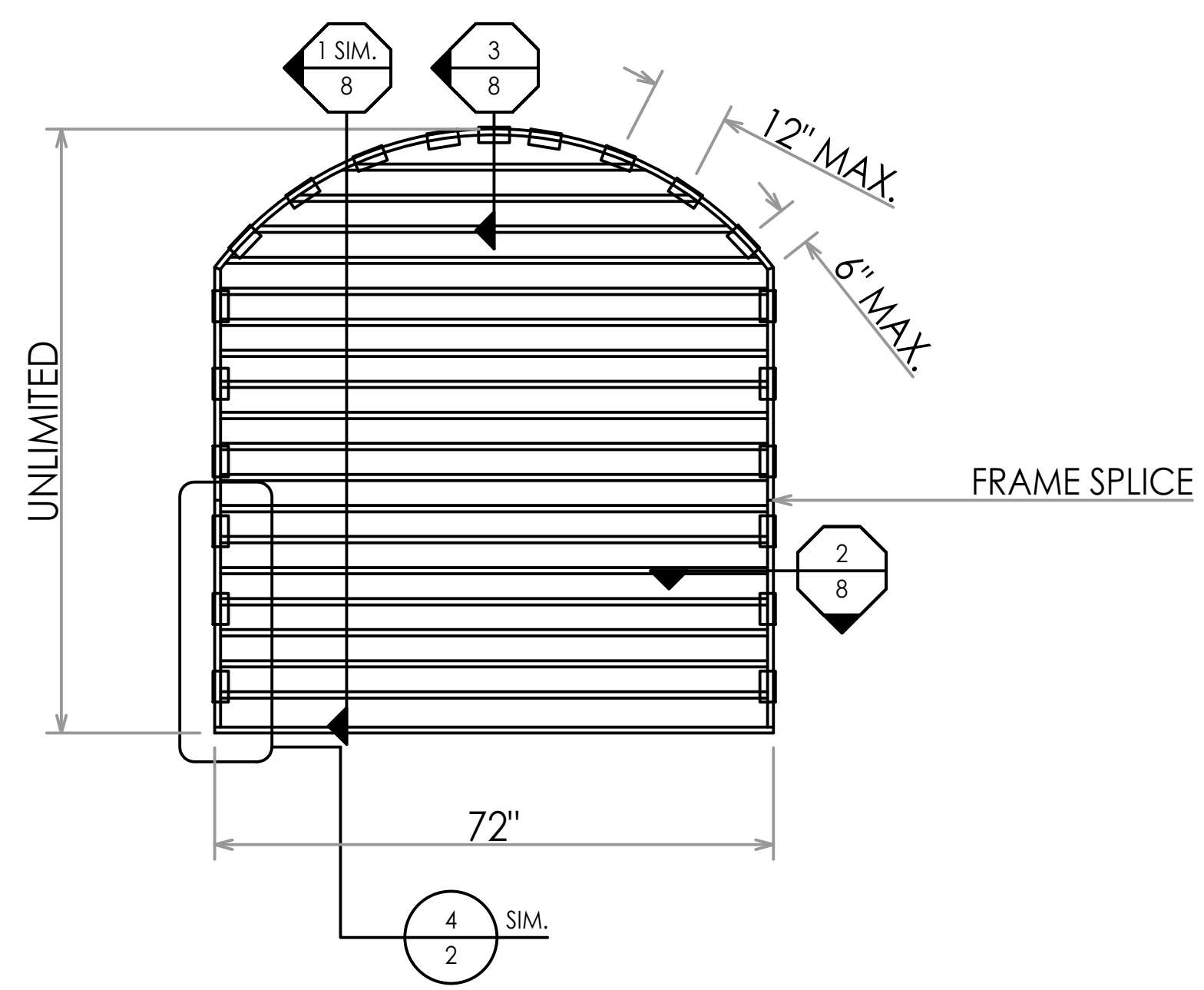




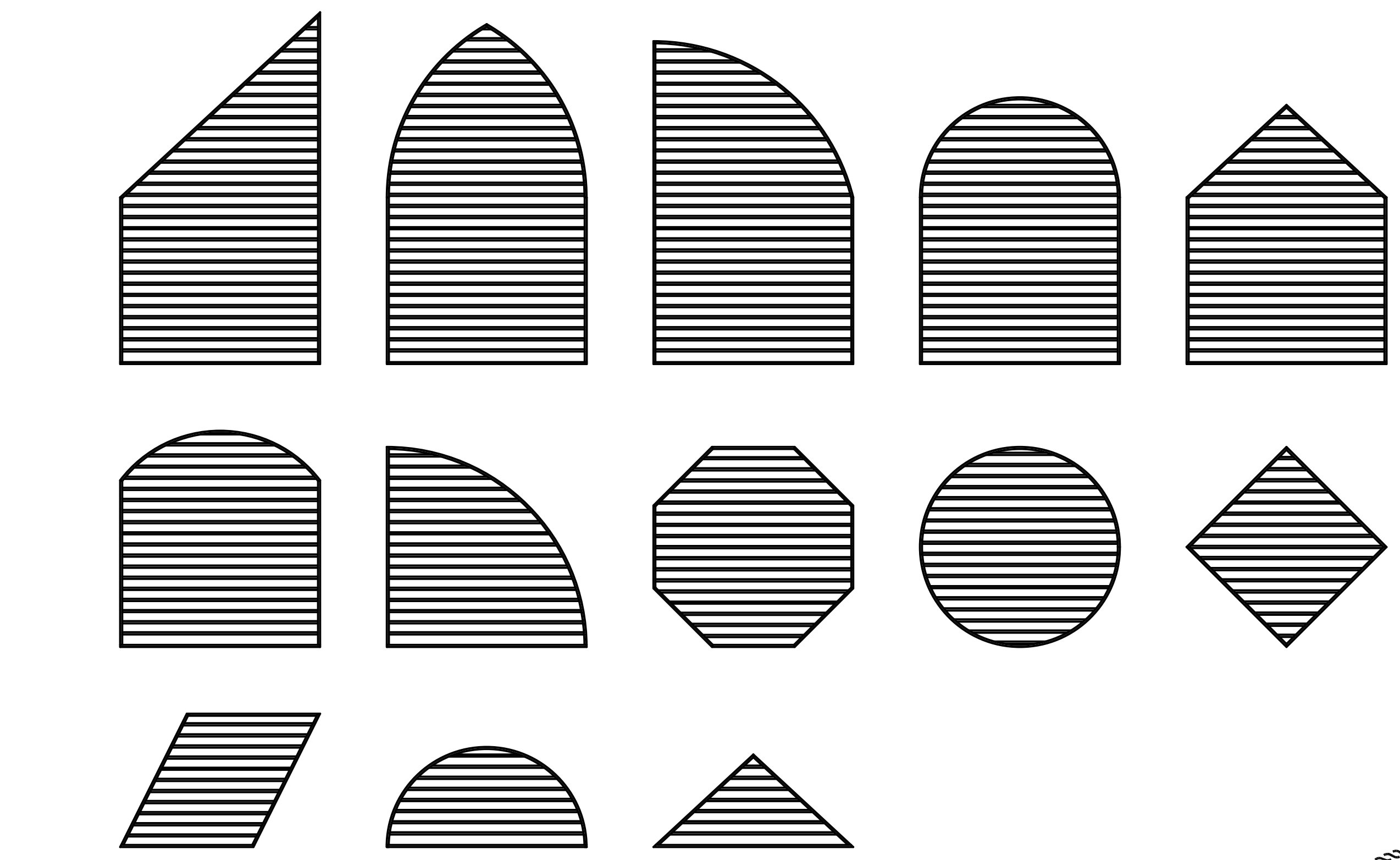
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100 PSF DESIGN PRESSURE



**SPECIMEN #5**  
120 PSF DESIGN PRESSURE



**SPECIMEN #6**  
120 PSF DESIGN PRESSURE



**APPROVED SPECIAL SHAPES**  
NOT TO SCALE



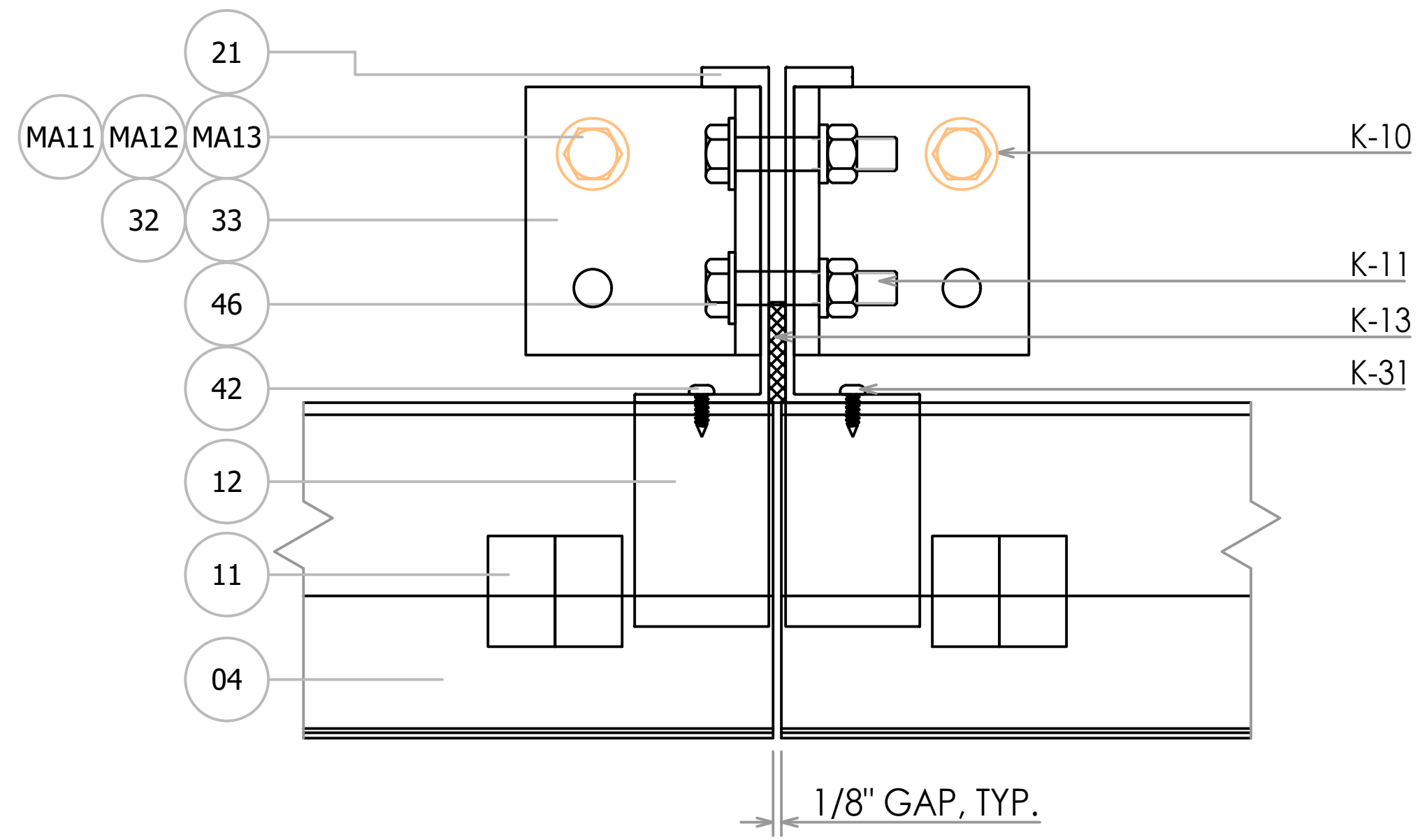
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**SP537DC**  
5' Deep Storm Performance Impact Resistant Louver

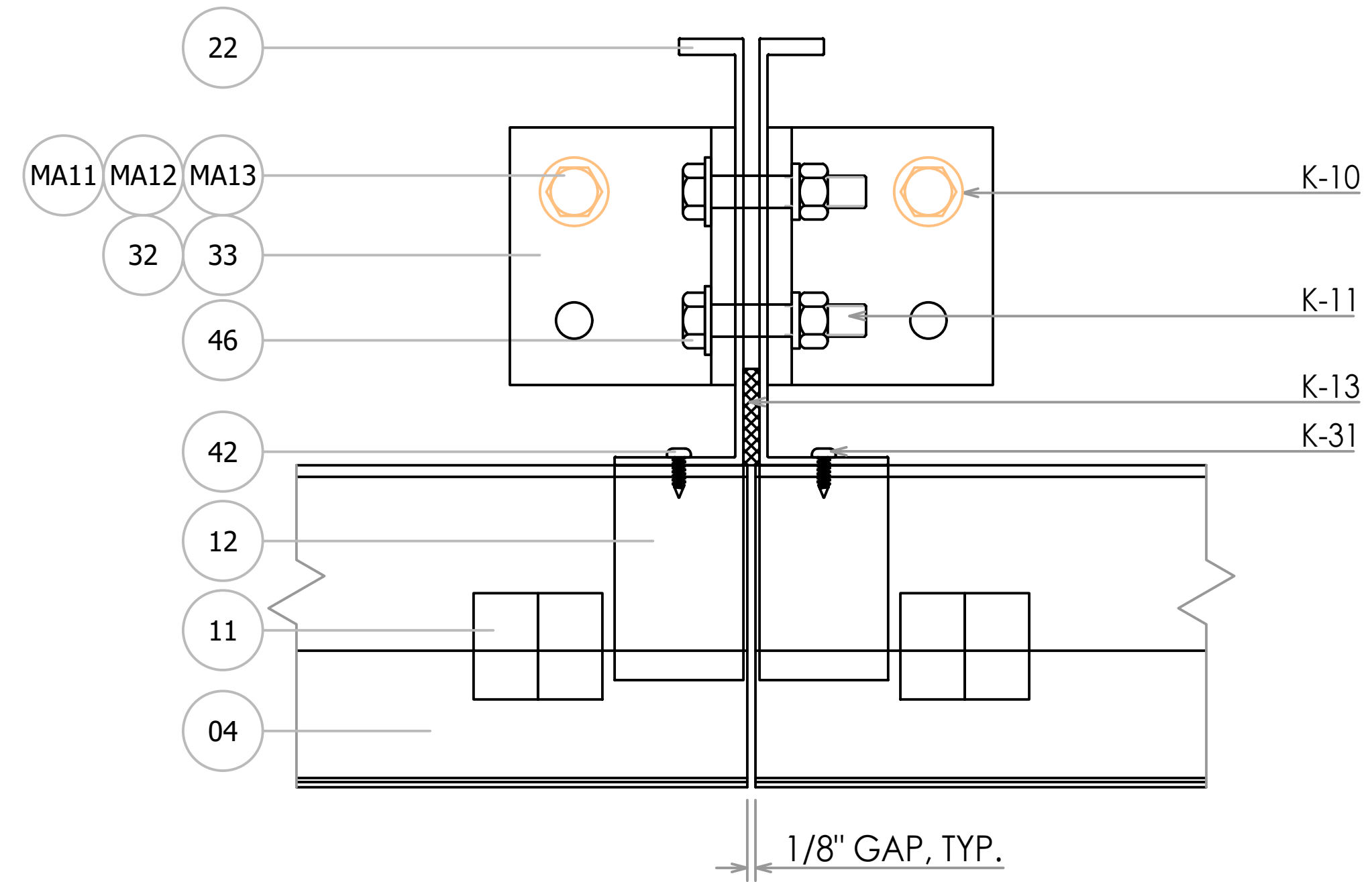
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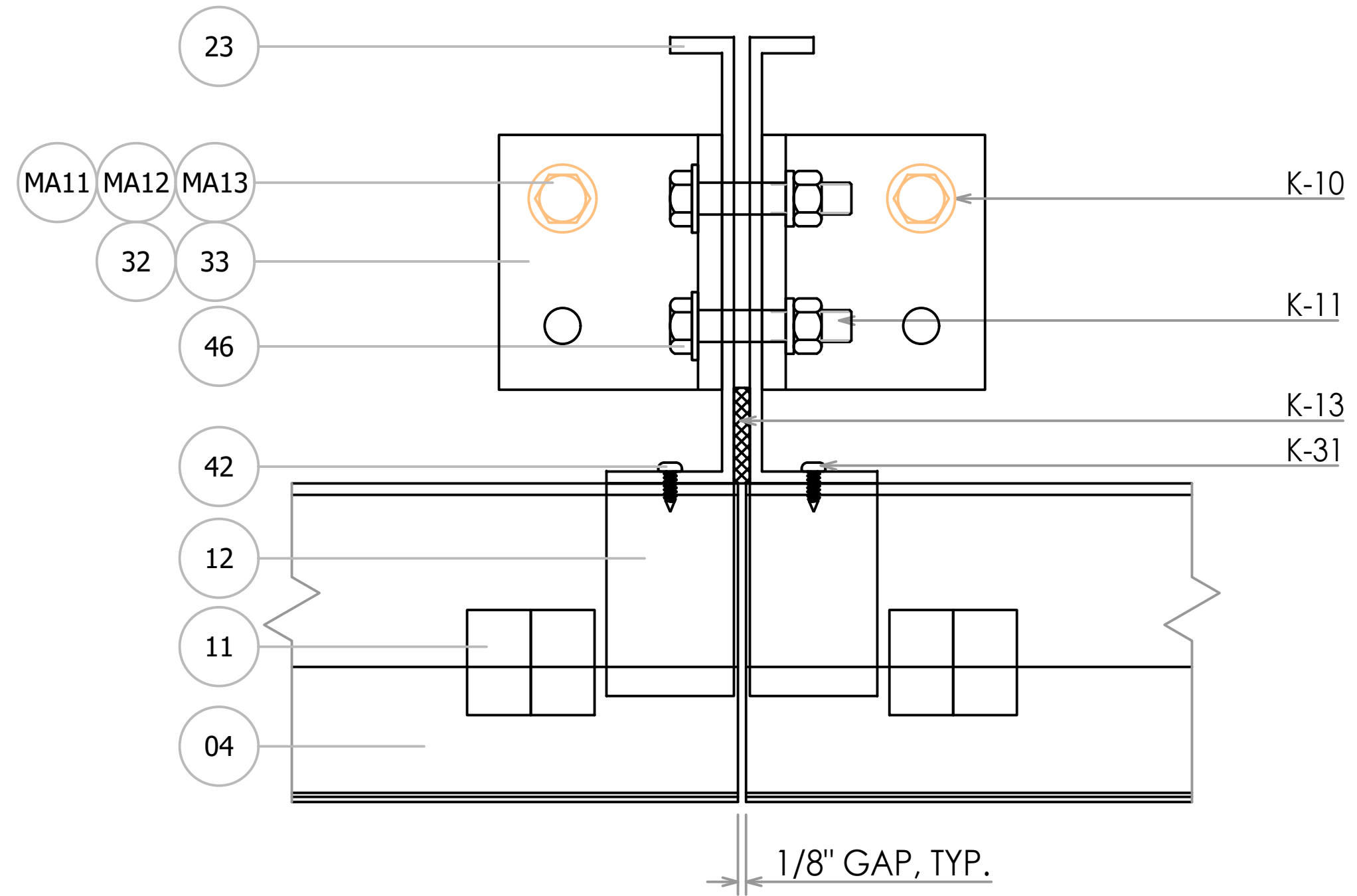
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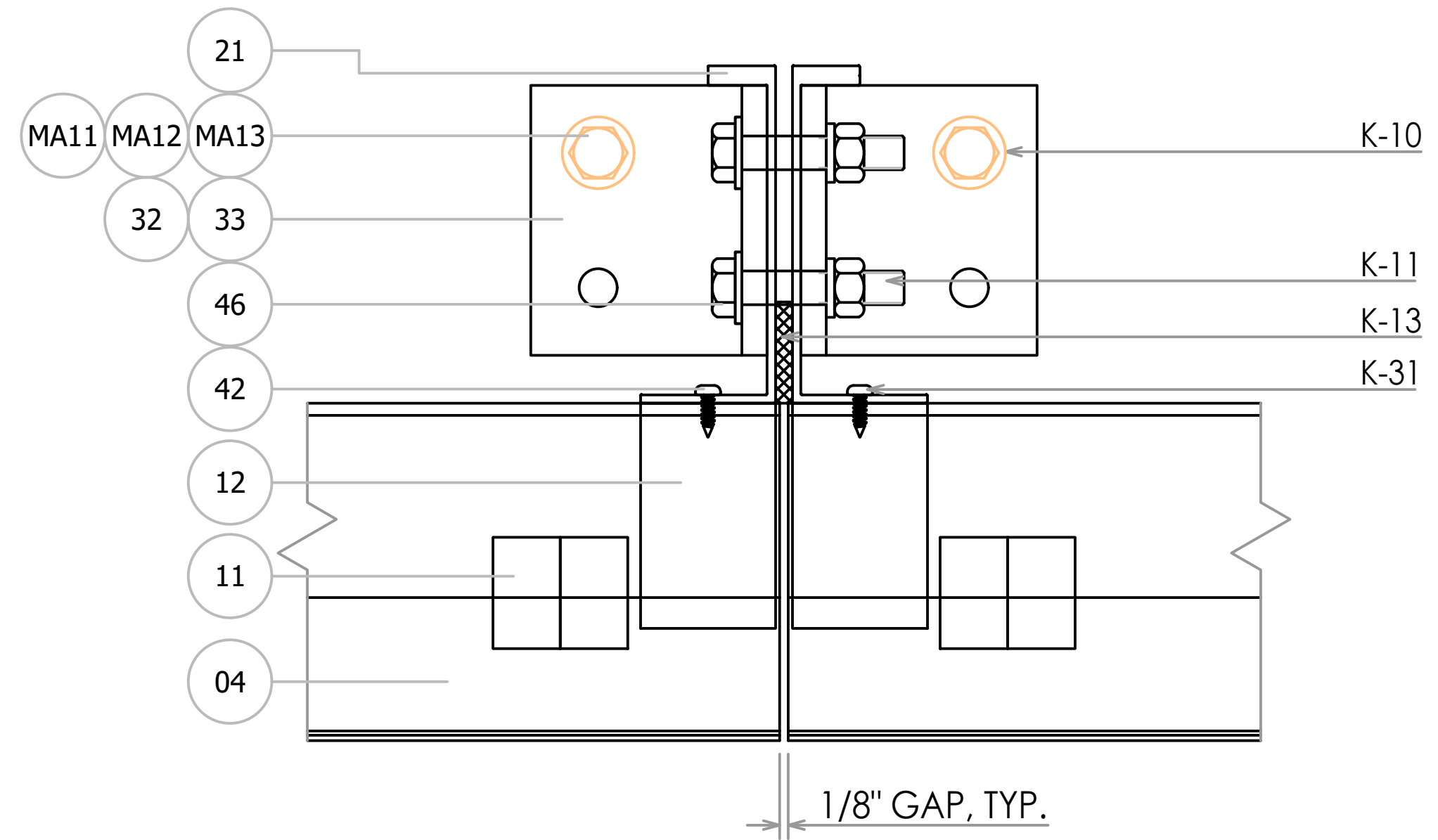
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4 MULLION #1, 5" CHANNEL  
108" MAX SPAN



2  
4 MULLION #2, 6 5/8" CHANNEL  
135" MAX SPAN

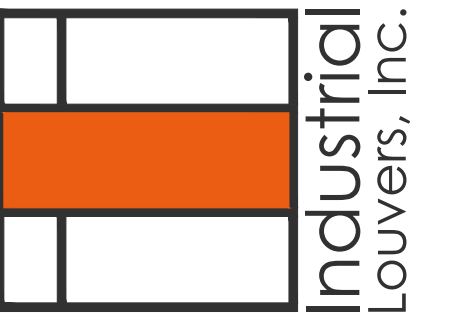


3  
4 MULLION #3, 7" CHANNEL  
154" MAX SPAN



4  
4 MULLION #4, 5" CHANNEL  
60" MAX SPAN

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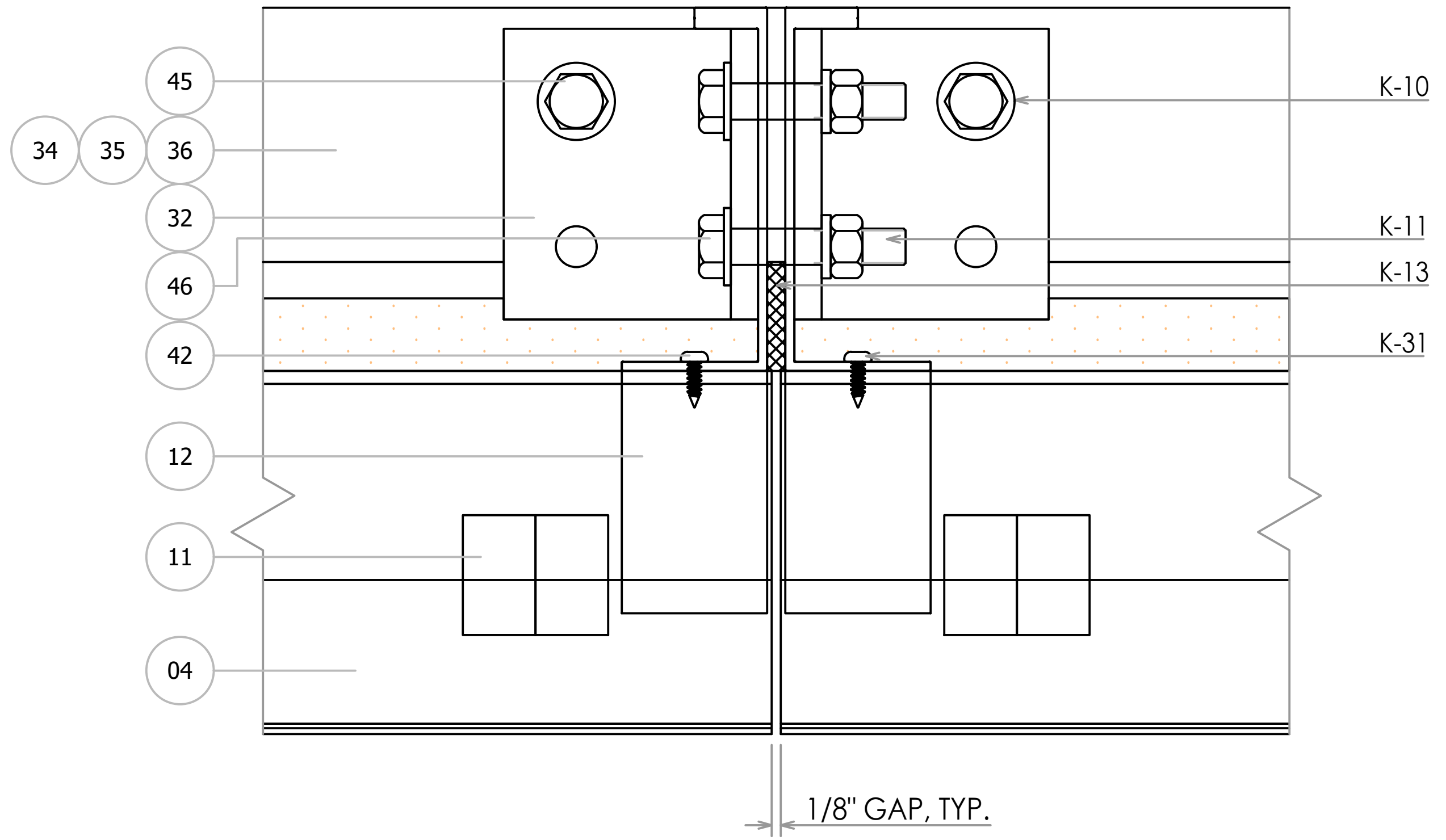
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5' Deep Storm Performance Impact Resistant Louver

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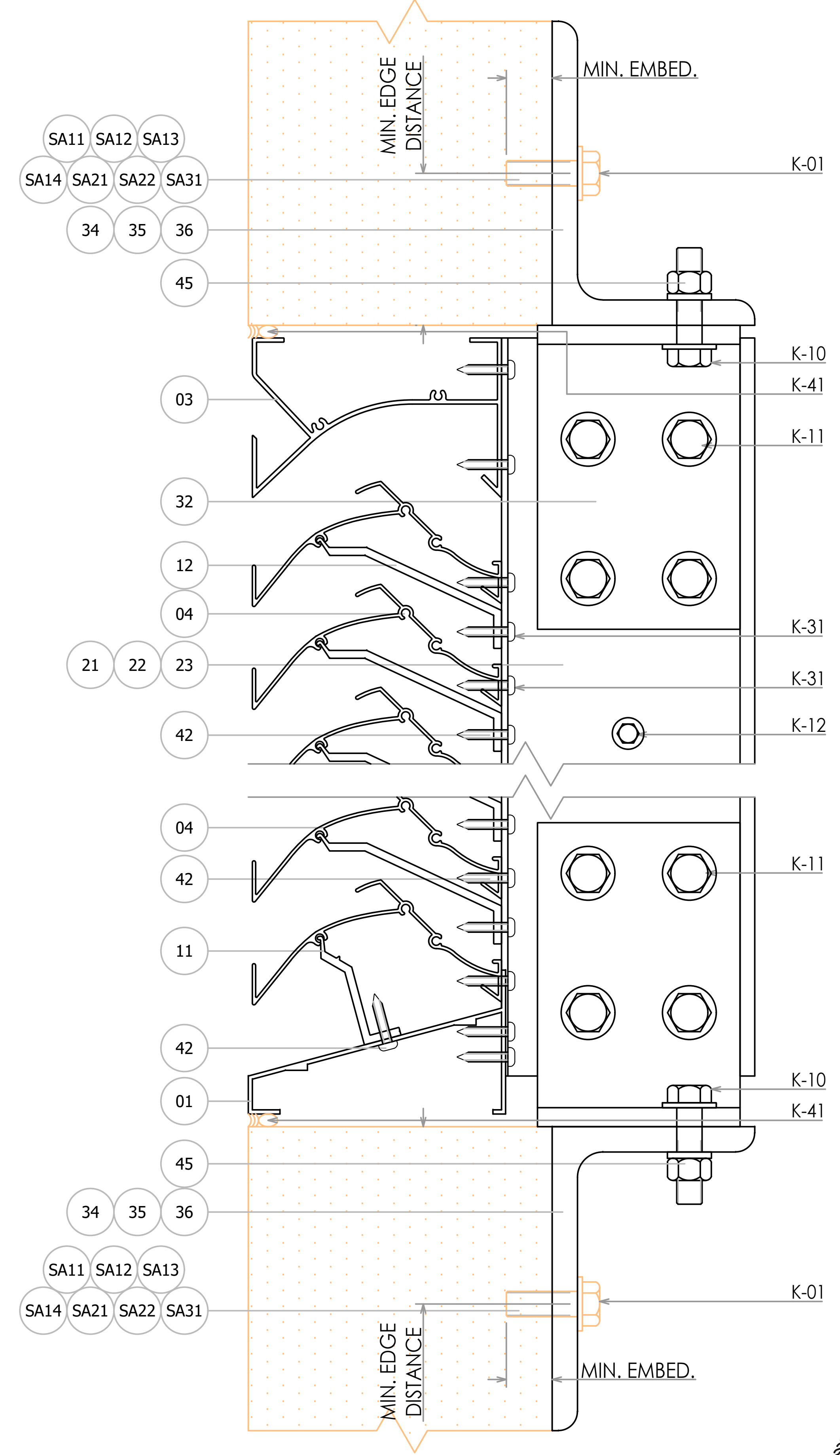
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1  
5 PLAN DETAIL @ SHELF ANGLE  
ALL MULLION TYPES SIMILAR



2  
5 VERTICAL SECTION W/ SHELF ANGLE  
ALL MULLION TYPES SIMILAR

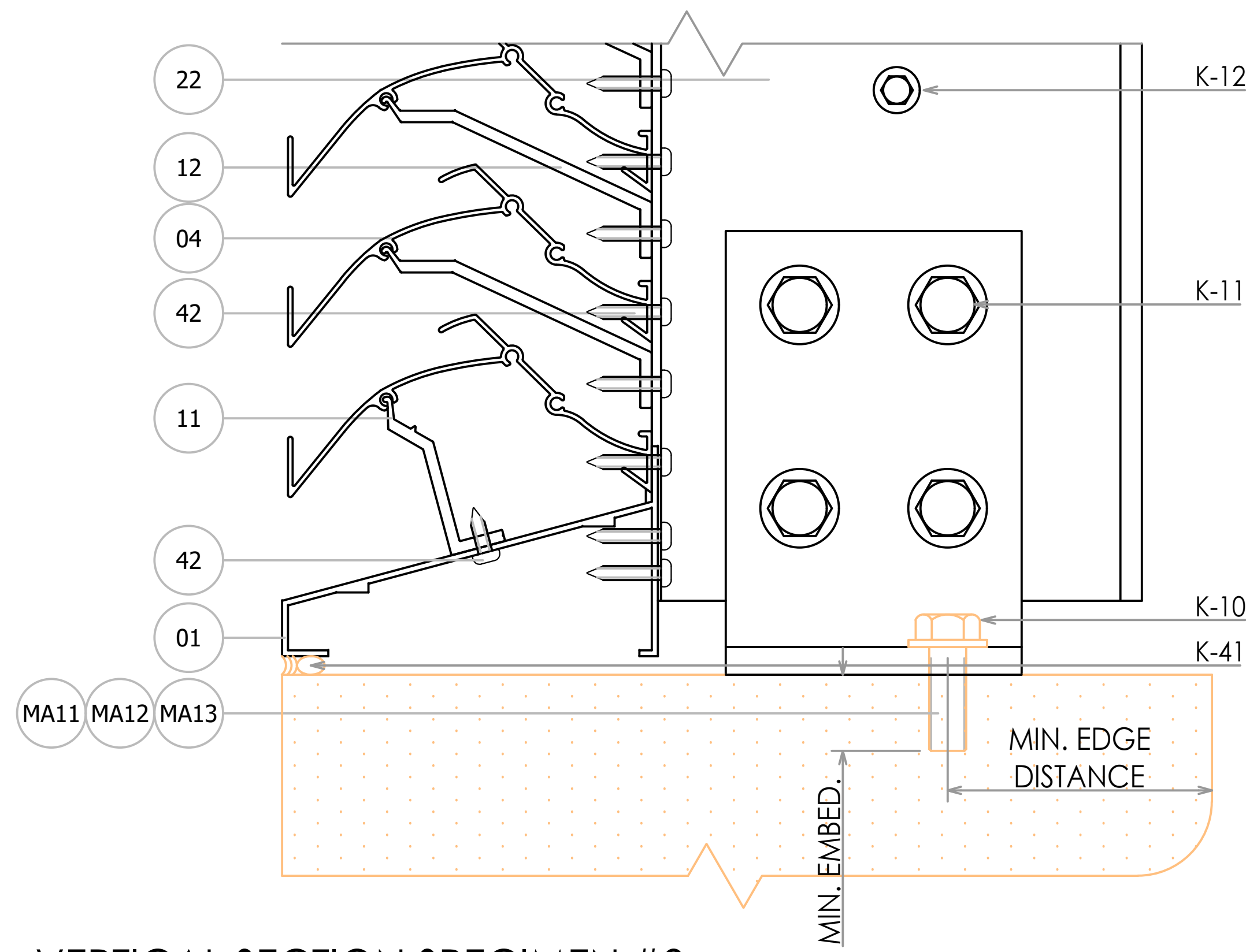
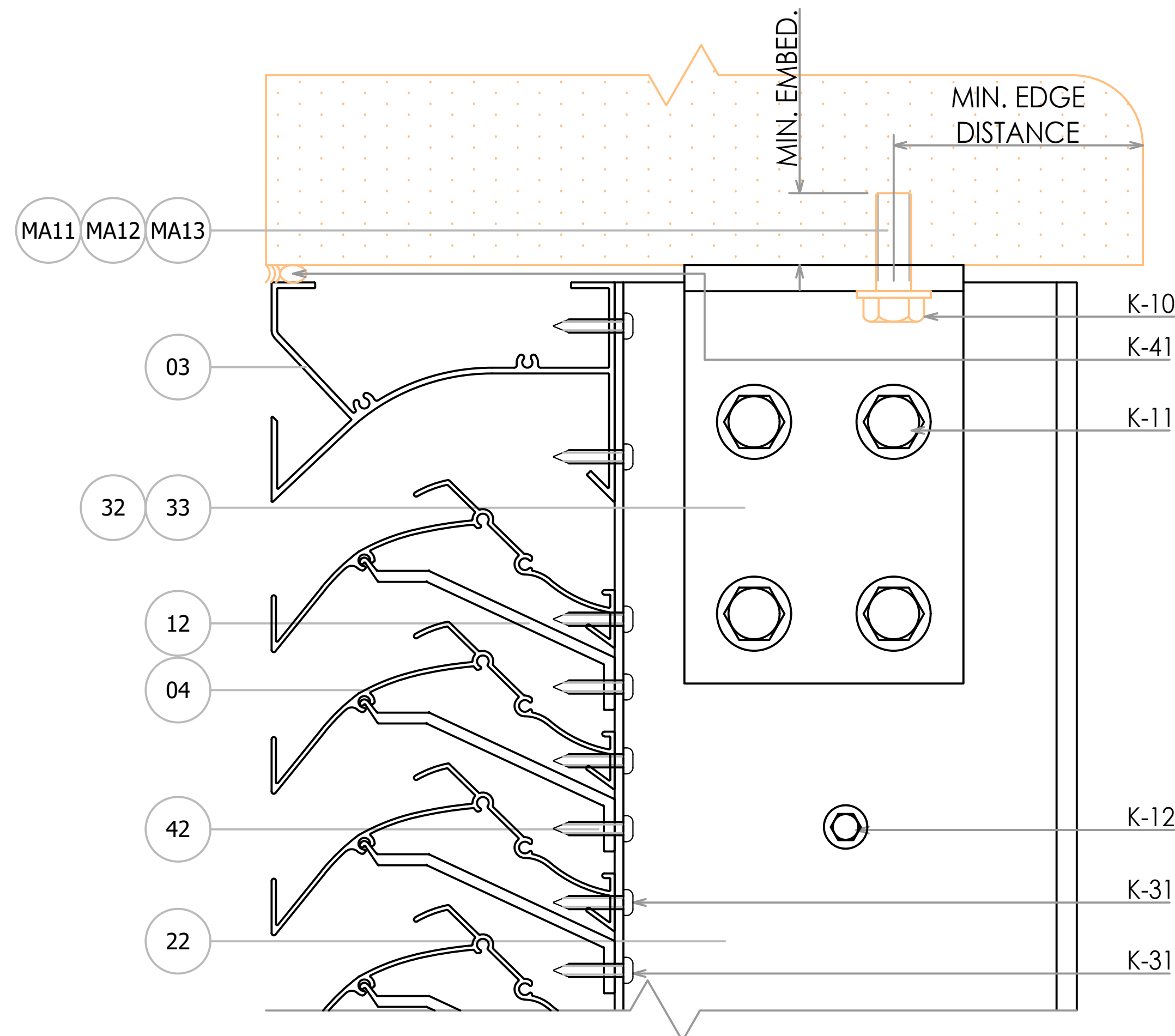
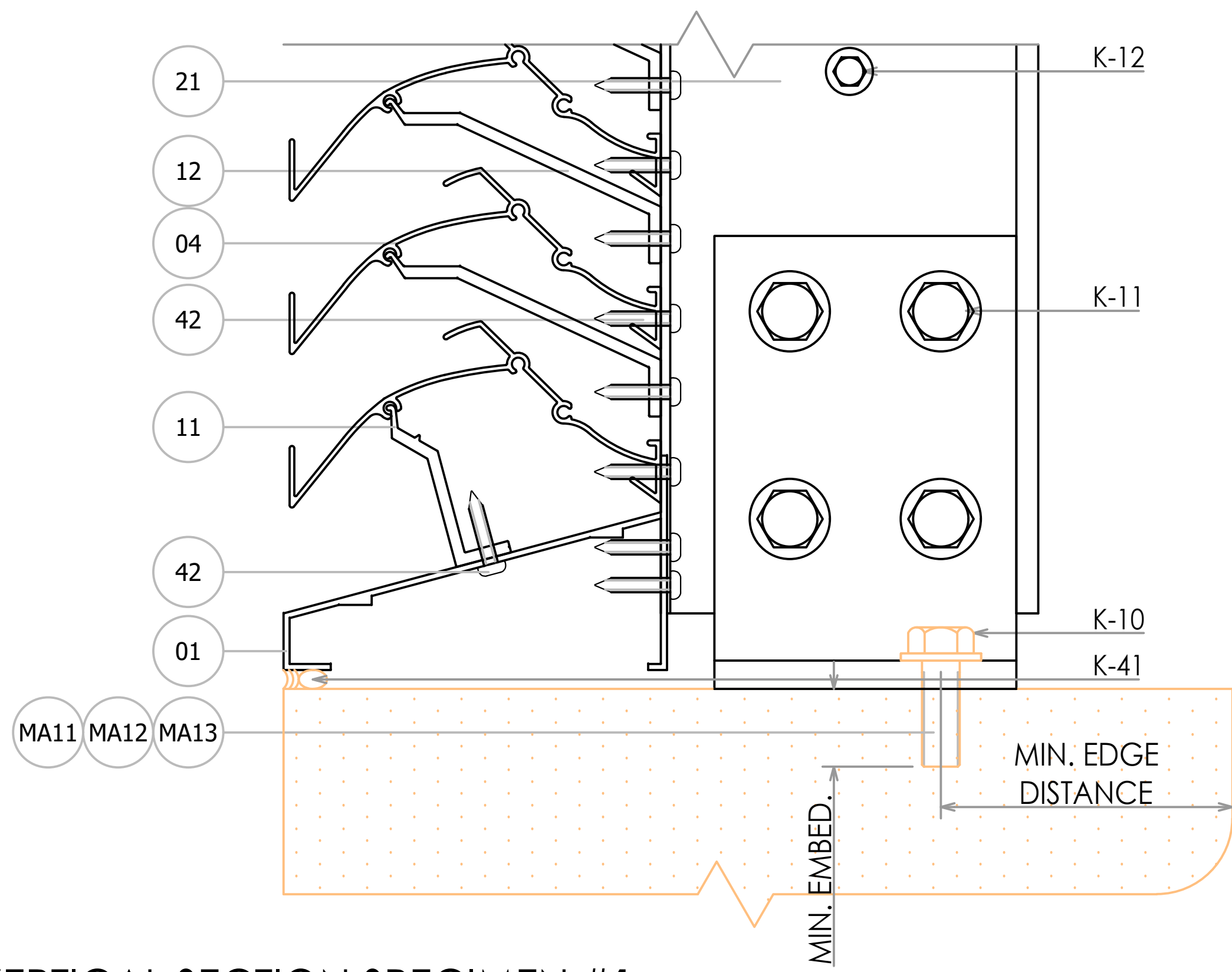
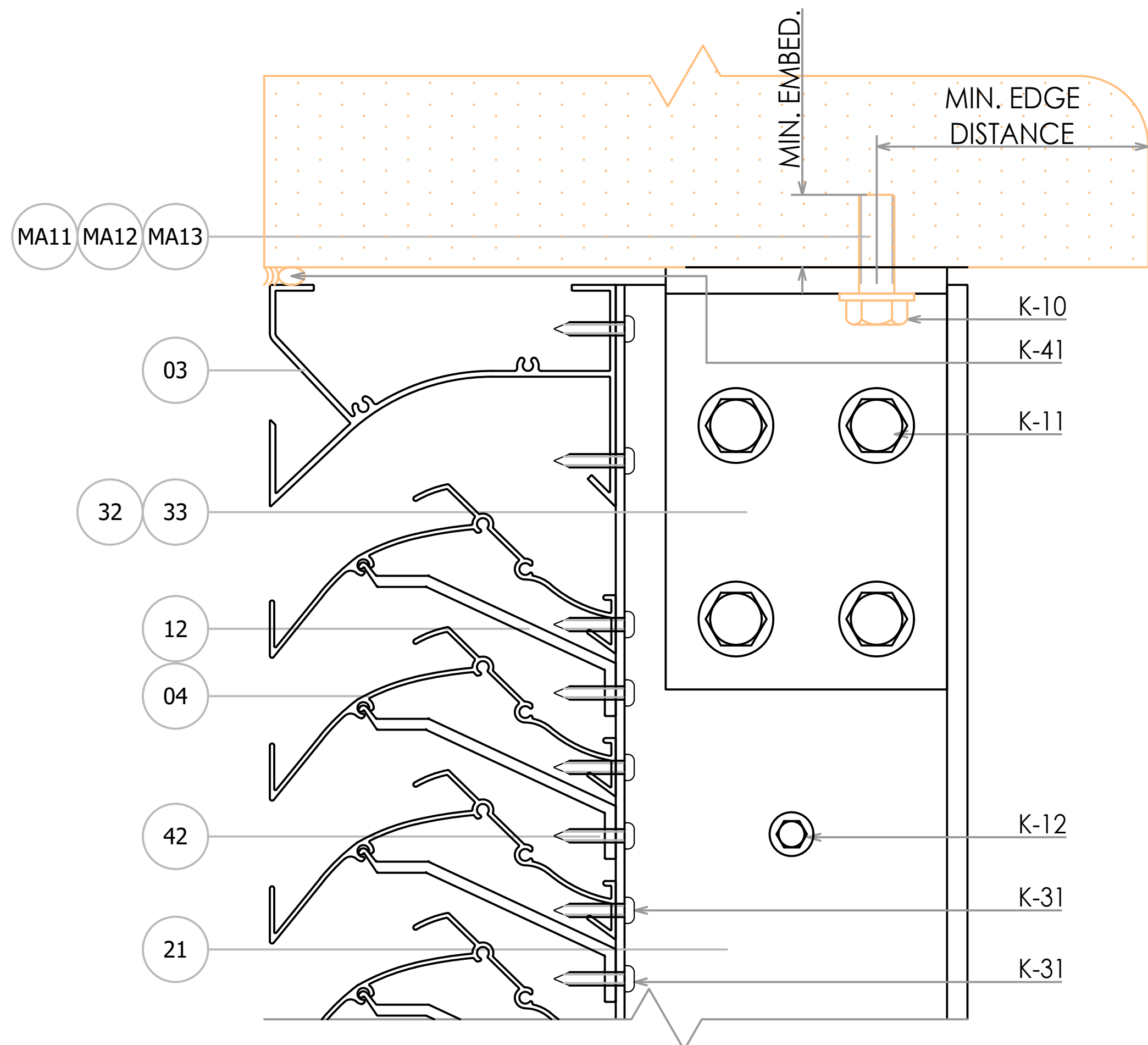
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5' Deep Storm Performance Impact Resistant Louver

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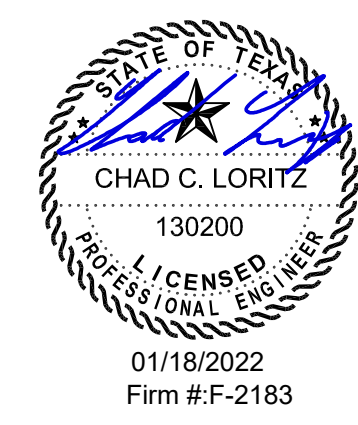


1  
6

**VERTICAL SECTION SPECIMEN #1**  
@ IVM W/ 5" CHANNEL SUPPORTS

2  
6

**VERTICAL SECTION SPECIMEN #2**  
@ IVM W/ 6 5/8" CHANNEL SUPPORTS



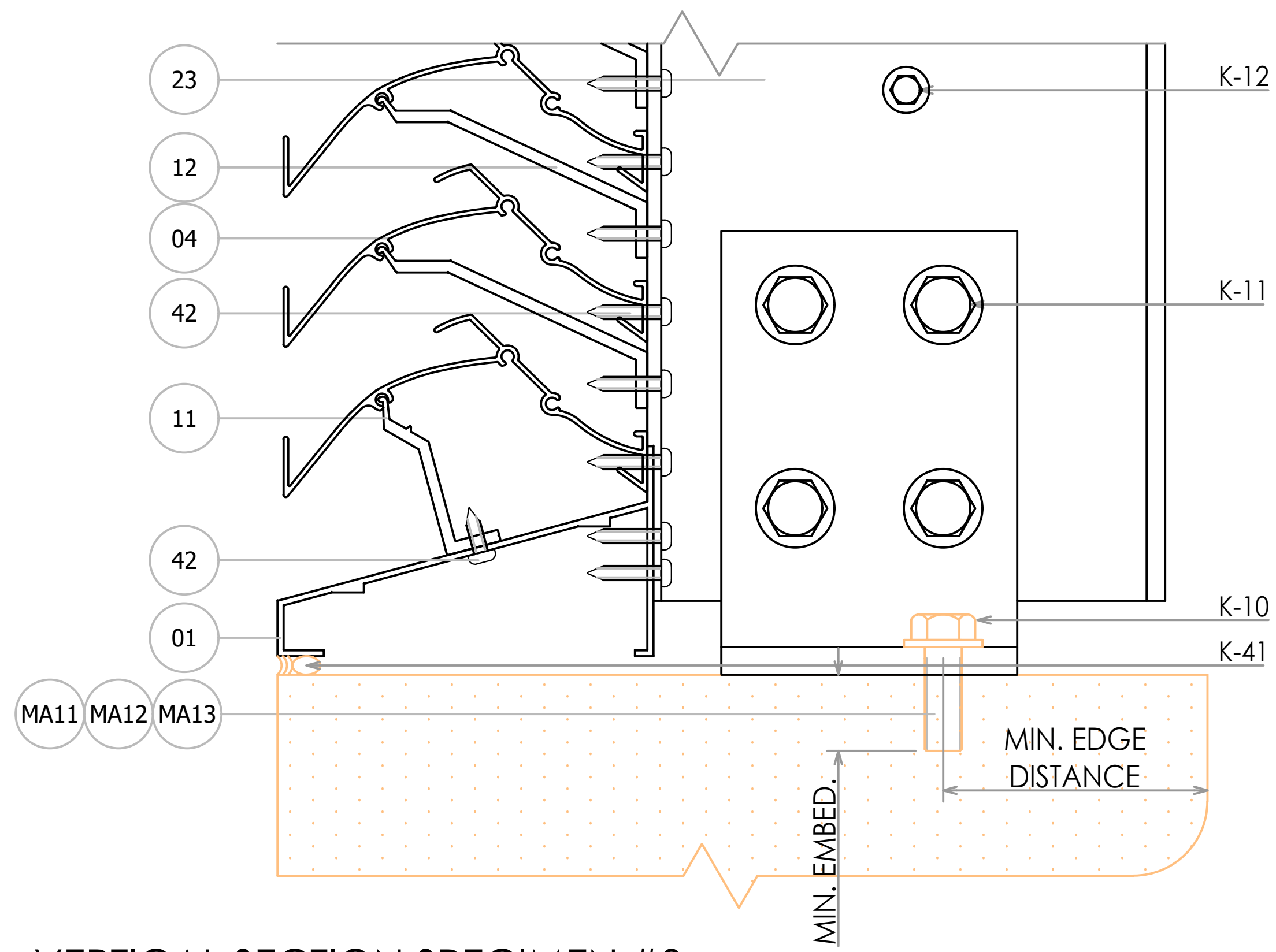
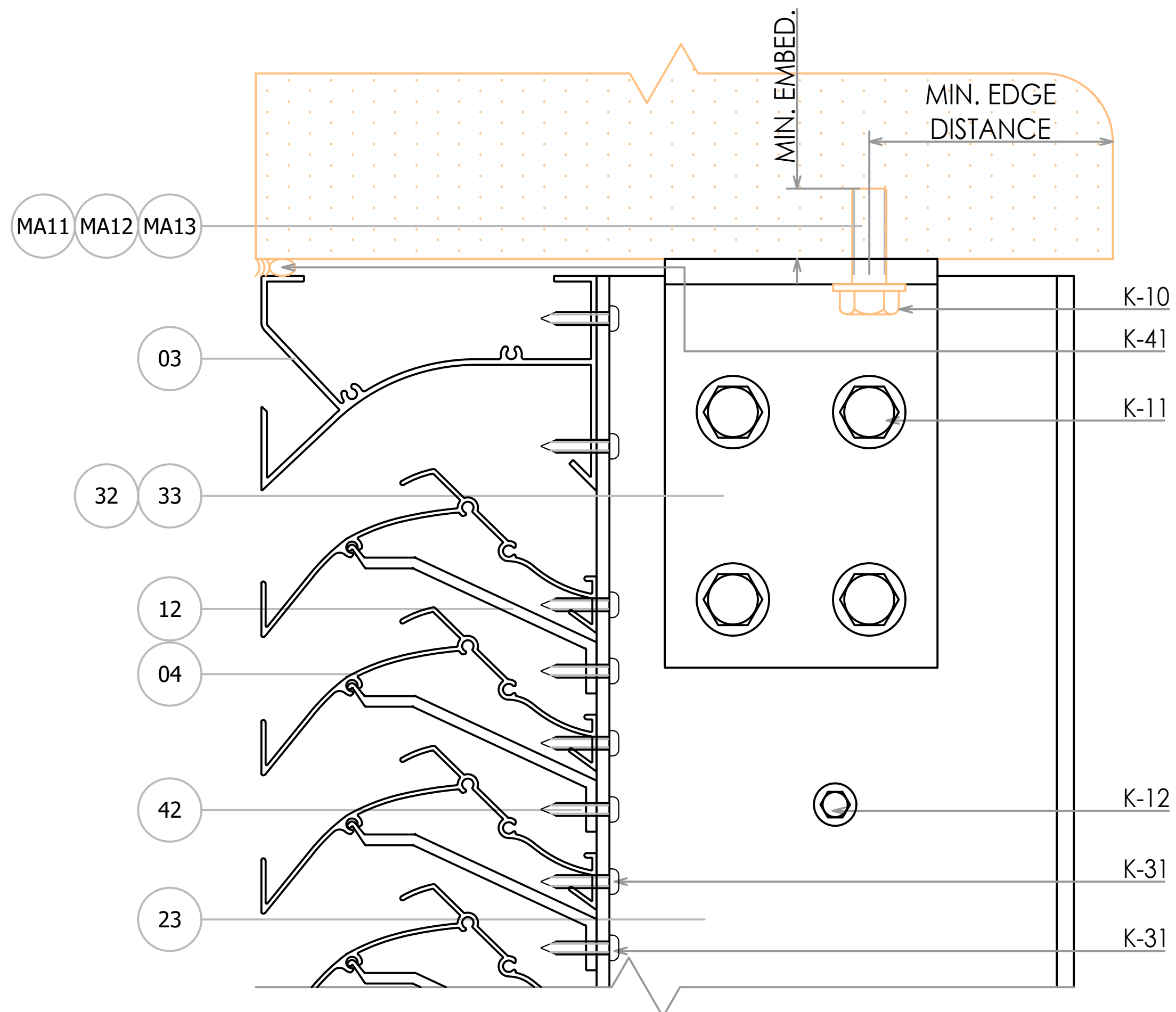
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5' Deep Storm Performance Impact Resistant Louver

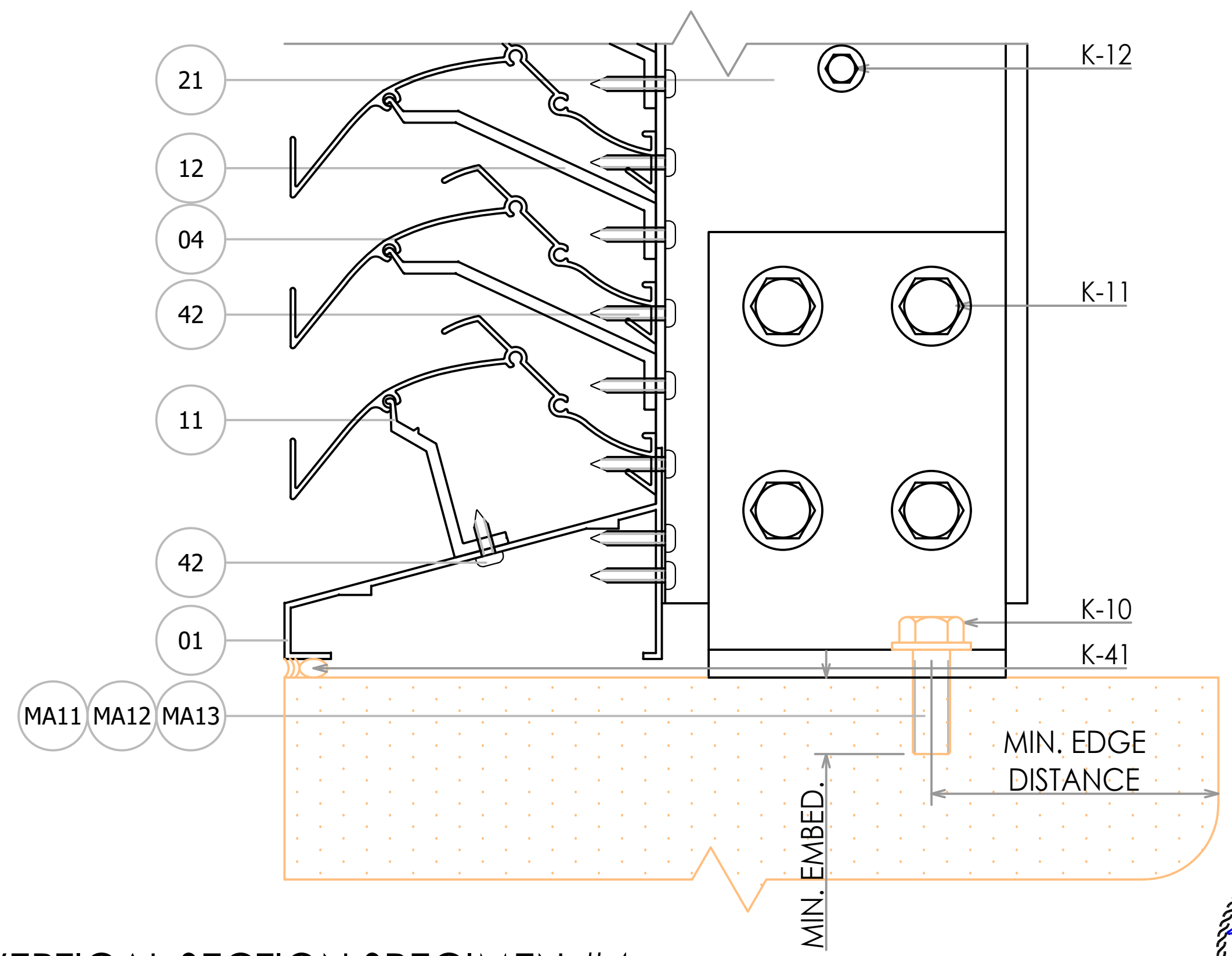
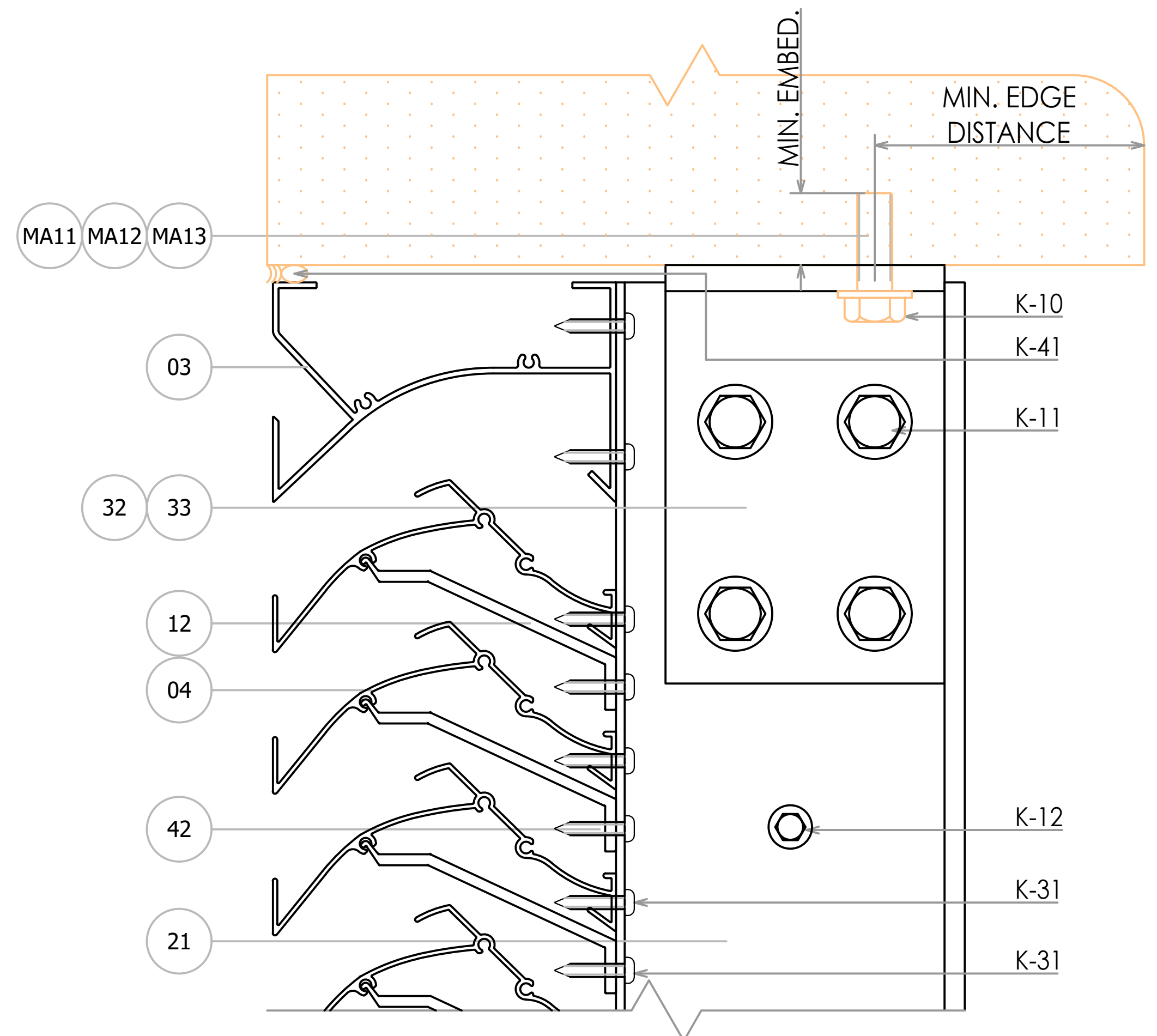
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1  
7  
VERTICAL SECTION SPECIMEN #3  
@ IVM W/ 7" CHANNEL SUPPORTS



2  
7  
VERTICAL SECTION SPECIMEN #4  
@ IVM W/ 5" CHANNEL SUPPORTS

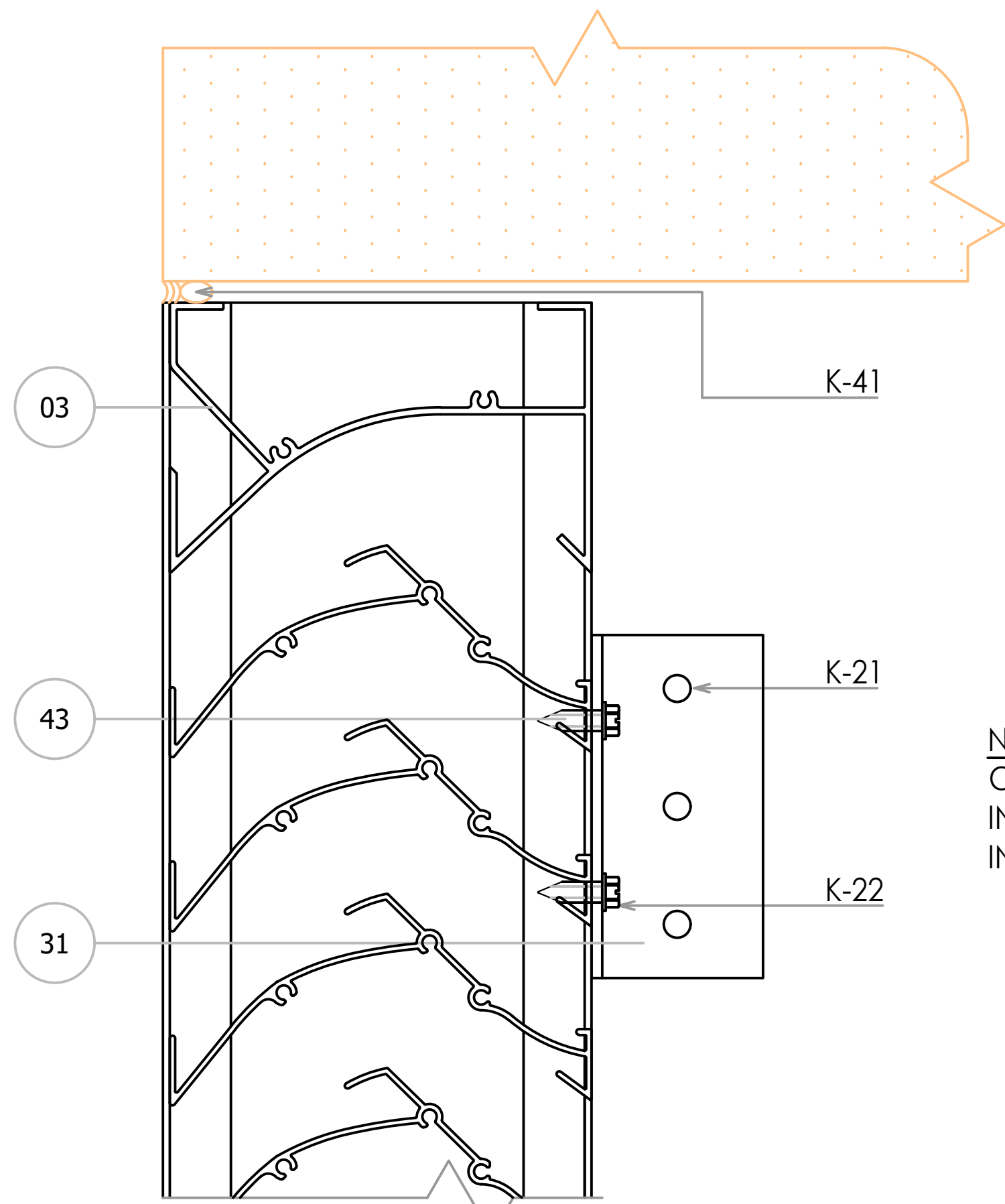
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SP537DC  
5' Deep Storm Performance Impact Resistant Louver

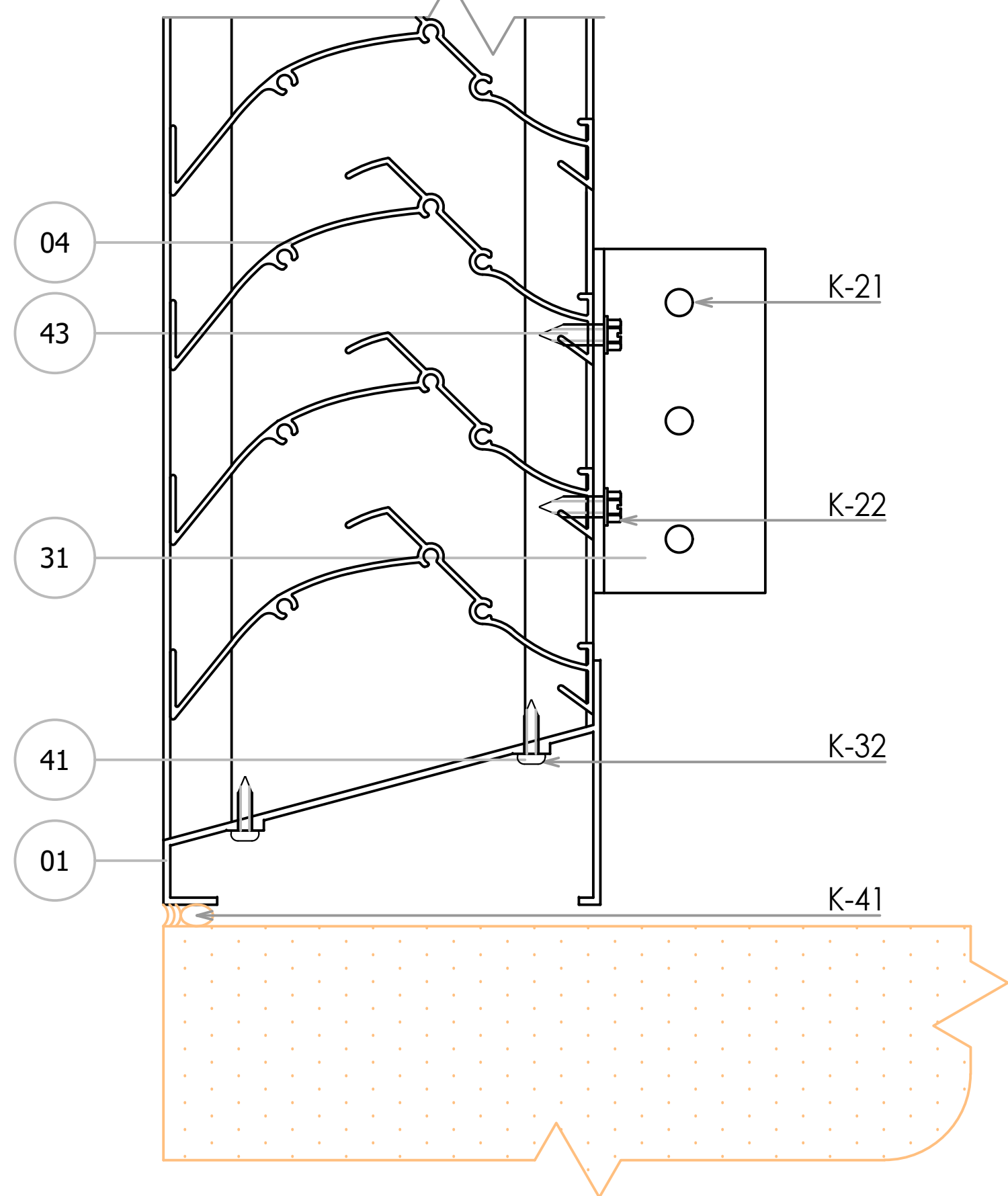
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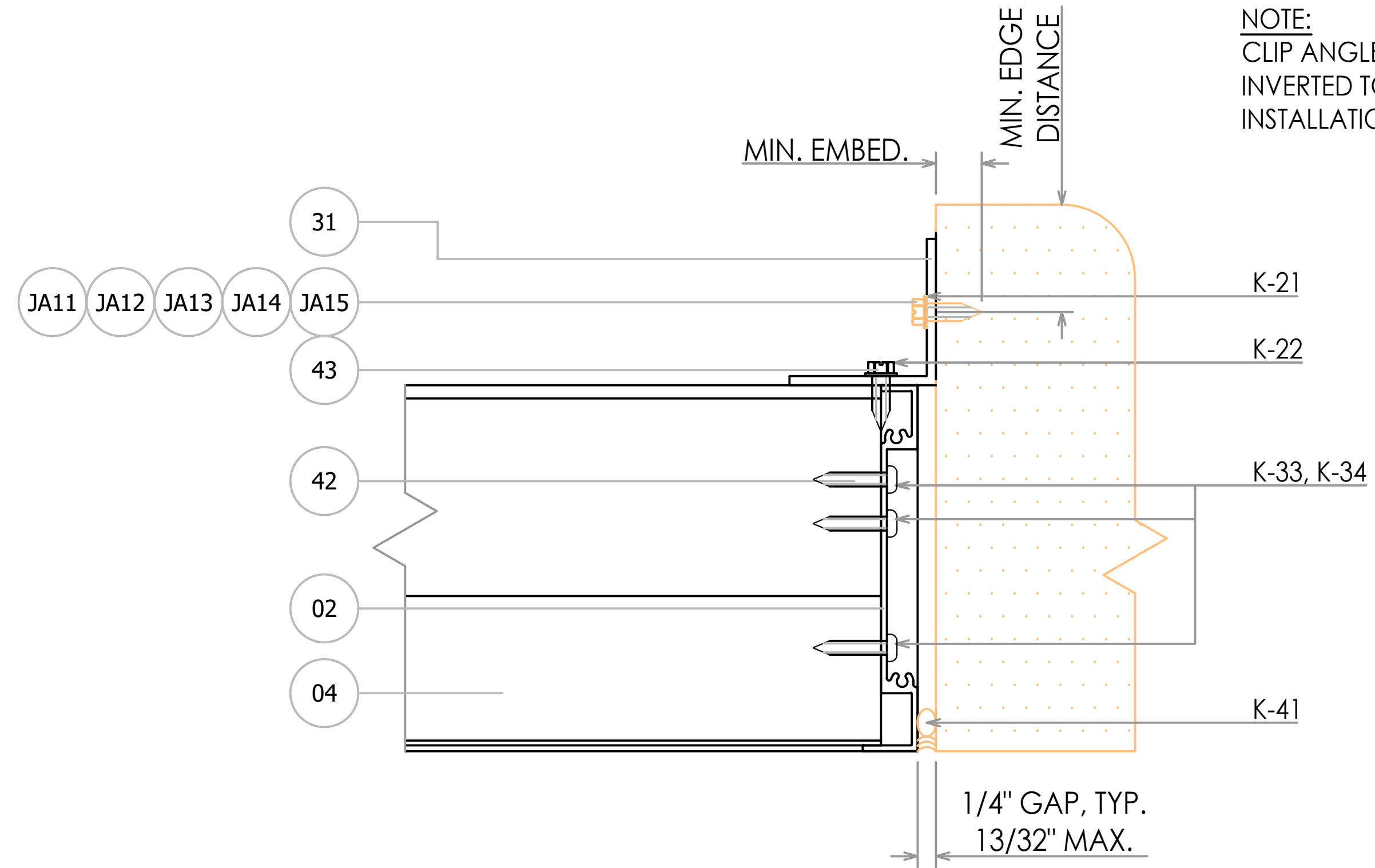


NOTE:  
CLIP ANGLES MAY BE  
INVERTED TO FACILITATE  
INSTALLATION.



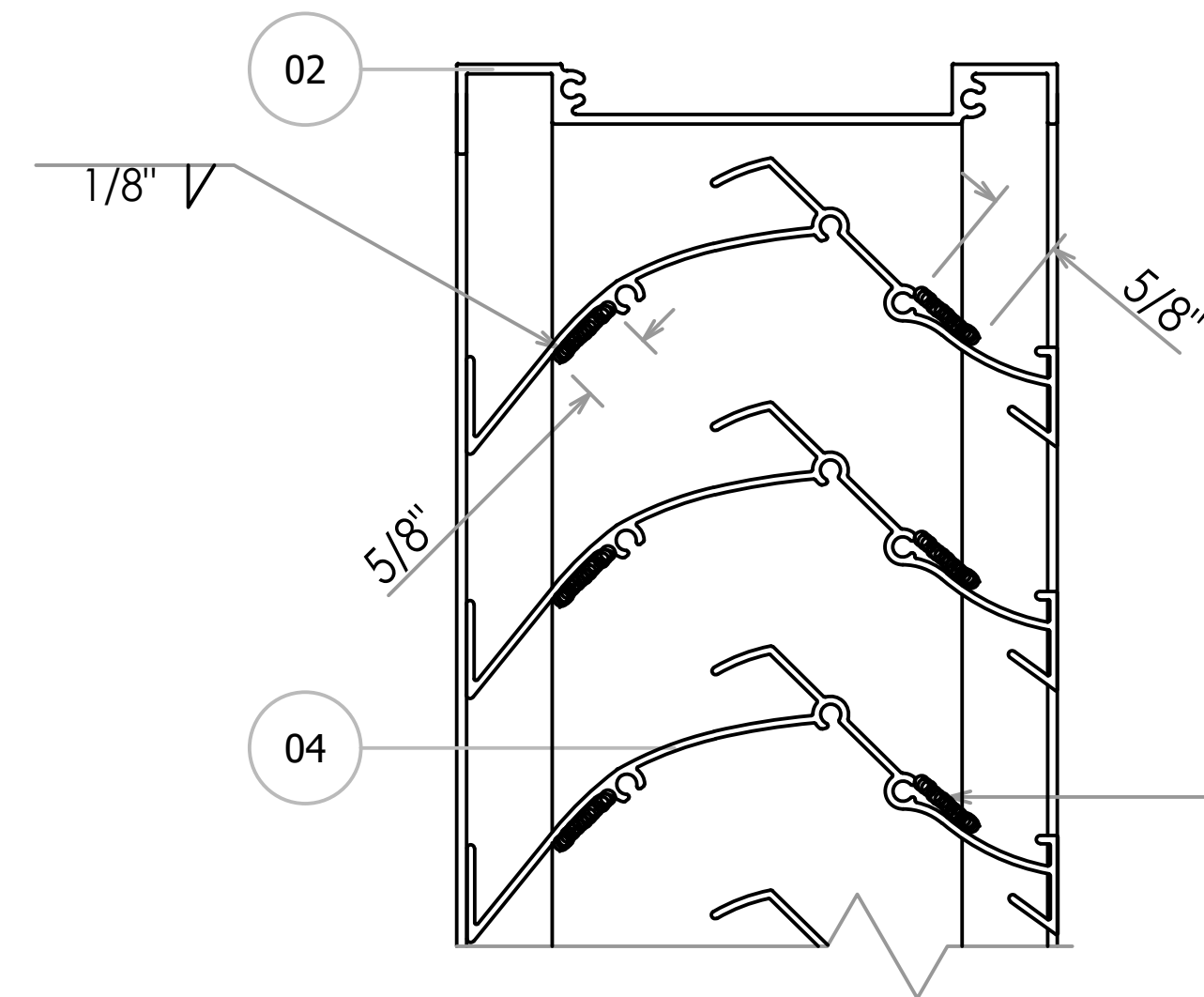
VERTICAL SECTION SPECIMEN #5

SIMILAR AT ALL JAMBS



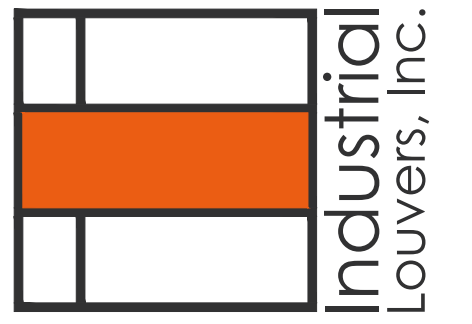
NOTE:  
CLIP ANGLES MAY BE  
INVERTED TO FACILITATE  
INSTALLATION.

JAMB PLAN DETAIL



NOTE:  
LOUVER BLADES, TOP FRAME, AND/OR  
BOTTOM FRAME MUST BE WELDED TO JAMB  
FRAMES IN LIEU OF MECHANICAL  
FASTENERS AT ALL JAMBS THAT ARE NOT  
NORMAL TO THE BLADE AXIS.

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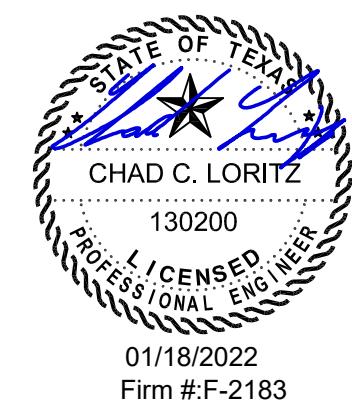


SP537DC  
5' Deep Storm Performance Impact Resistant Louver

| No. | By | Description                                 | Date       |
|-----|----|---|------------|
| 0   | DG | ORIGINAL DRAWING                            | 03/06/2019 |
| 1   | DG | UPDATE TO COMPLY WITH 2018 IBC AND 2018 IRC | 01/10/2022 |
|     |    |   |            |
|     |    |   |            |
|     |    |   |            |
|     |    |   |            |
|     |    |   |            |

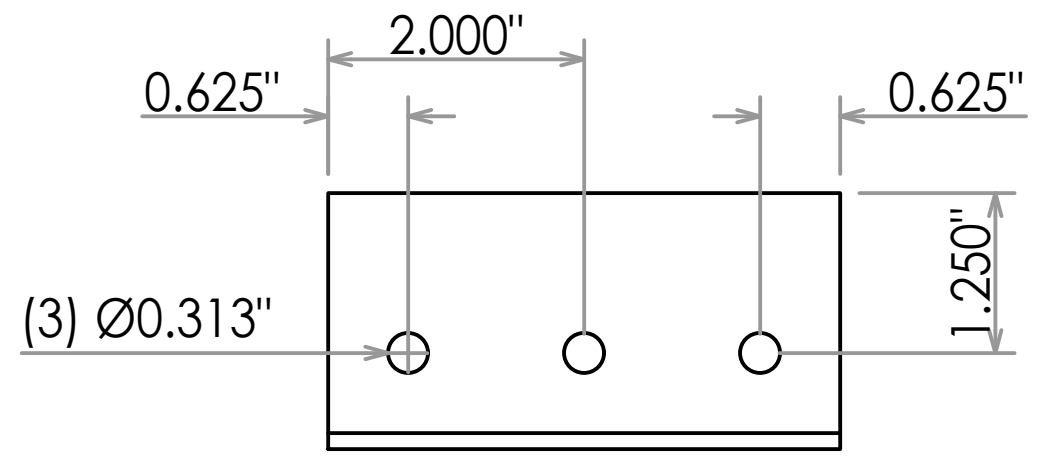
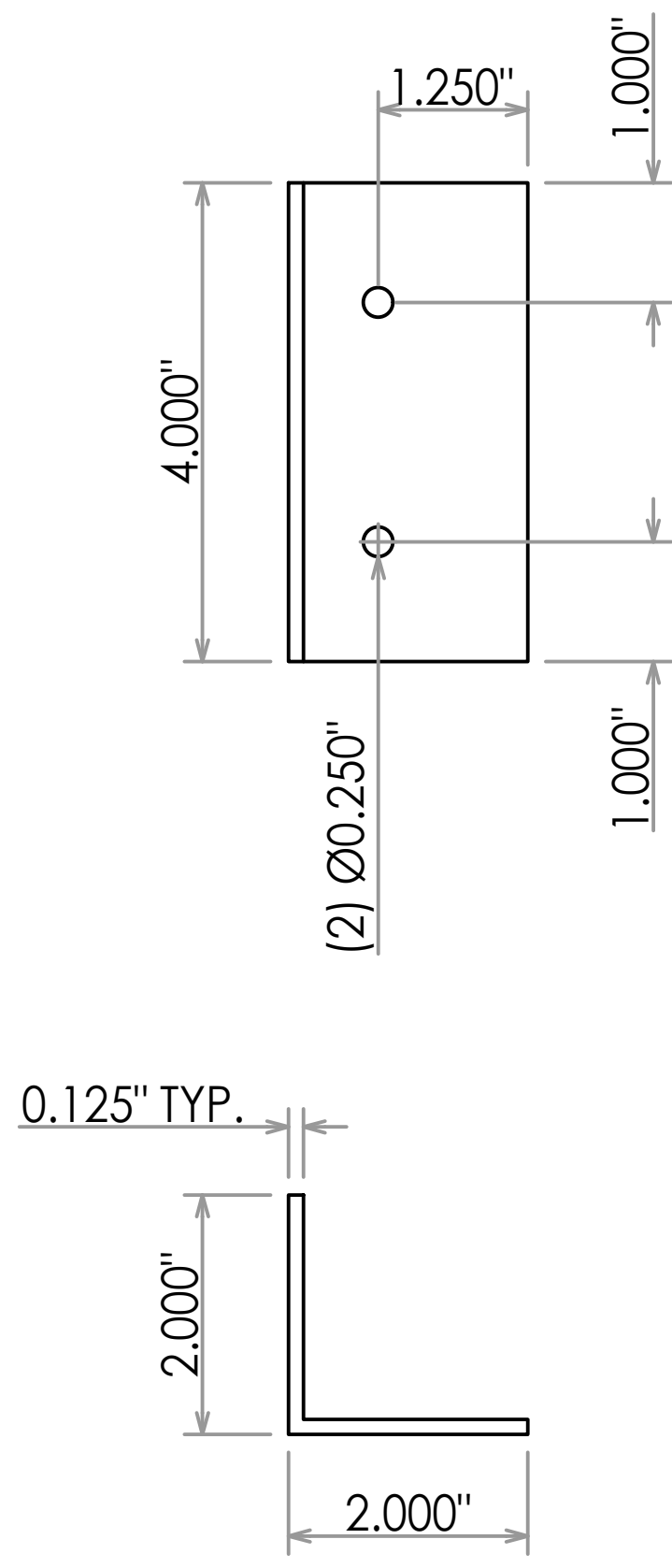
|             |            |
|-------------|------------|
| Date:       | 01/10/2022 |
| Drawn By:   | DG         |
| Checked By: |            |
| Drawing No. | RD1089     |

Compliance Office Stamp

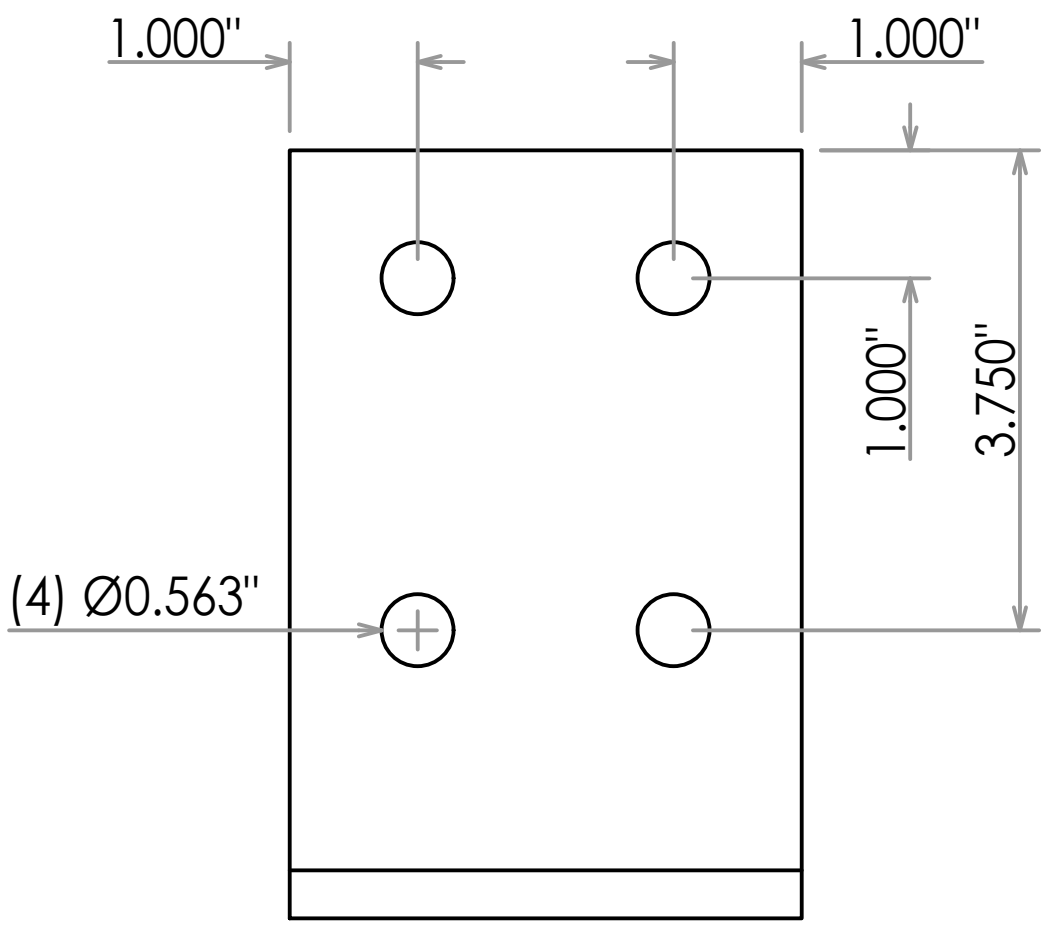
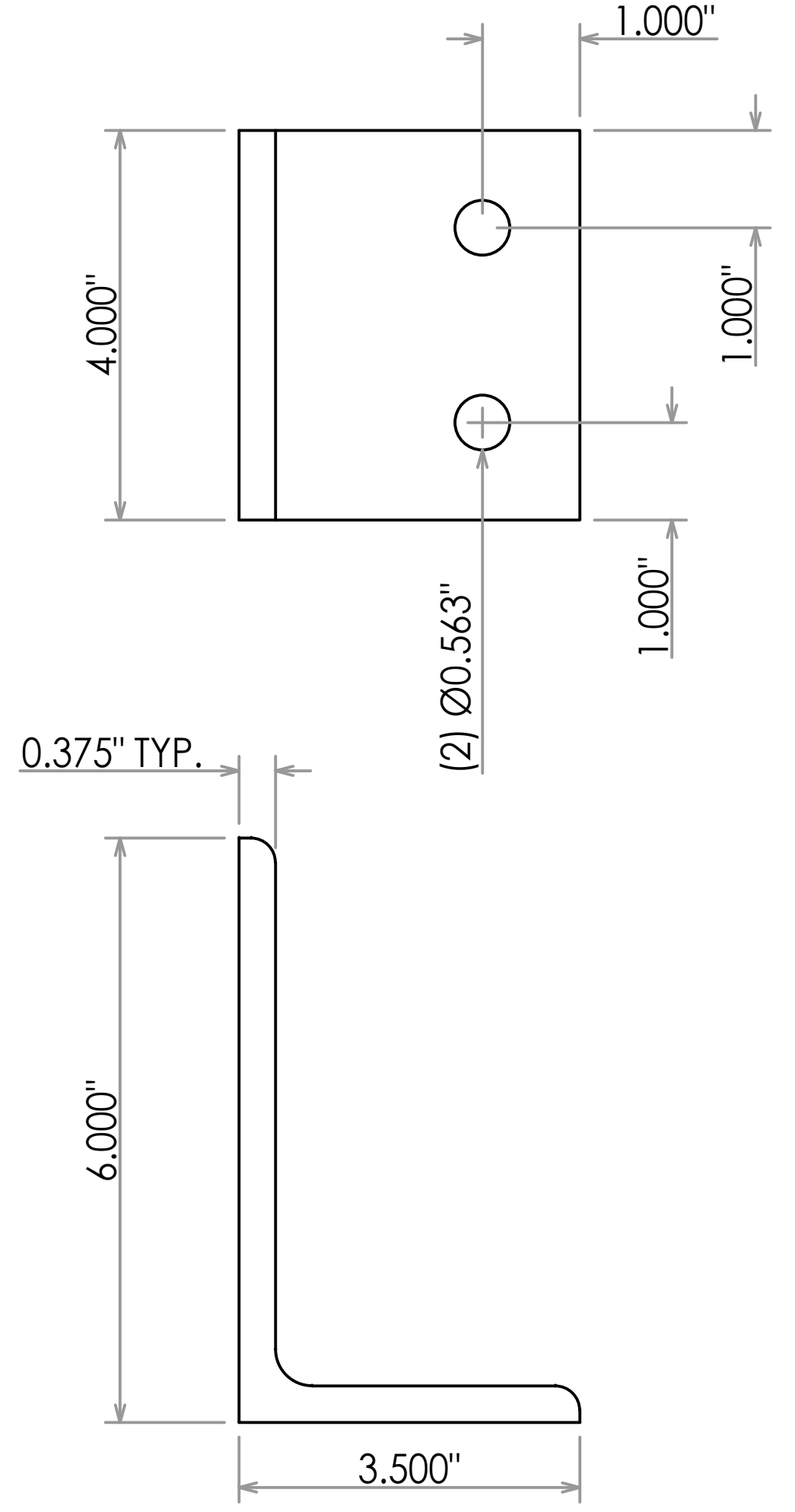








31 4" LONG 2" X 2" X 1/8" CLIP ANGLE



32 4" LONG 3 1/2" X 6" X 3/8" CLIP ANGLE



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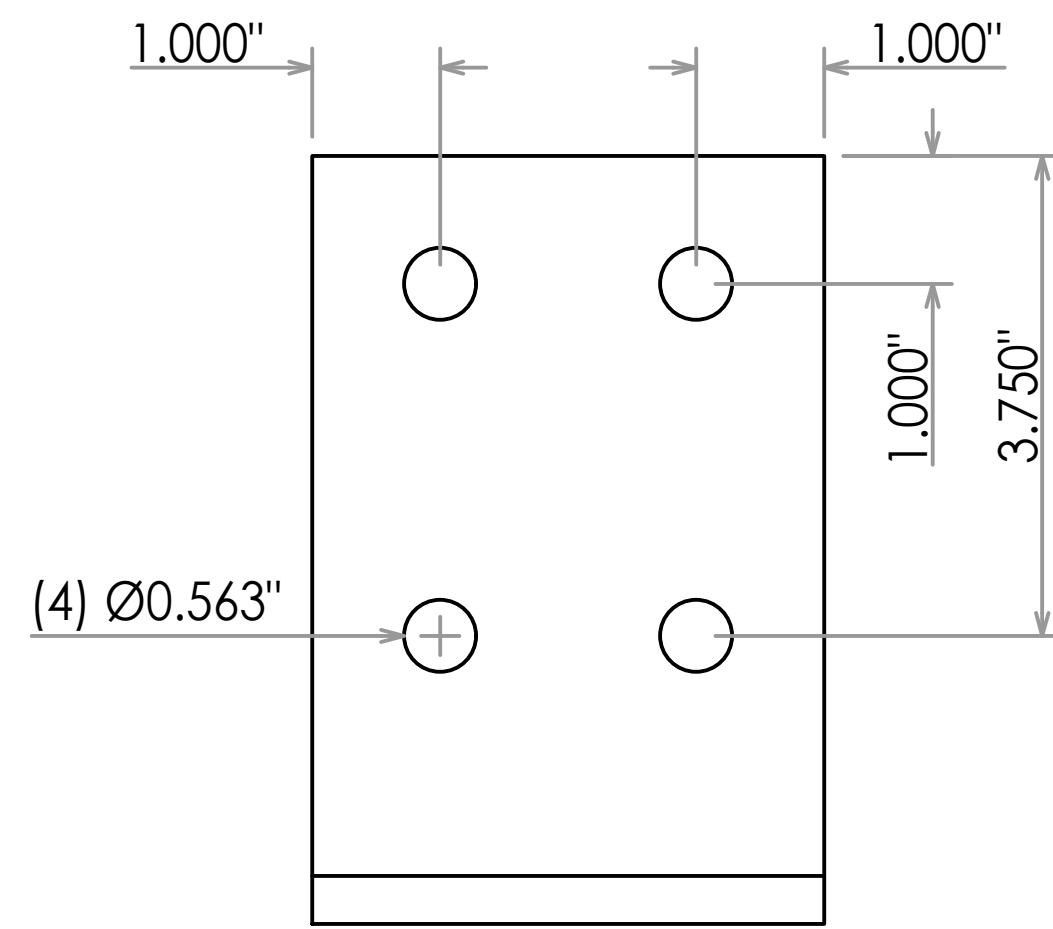
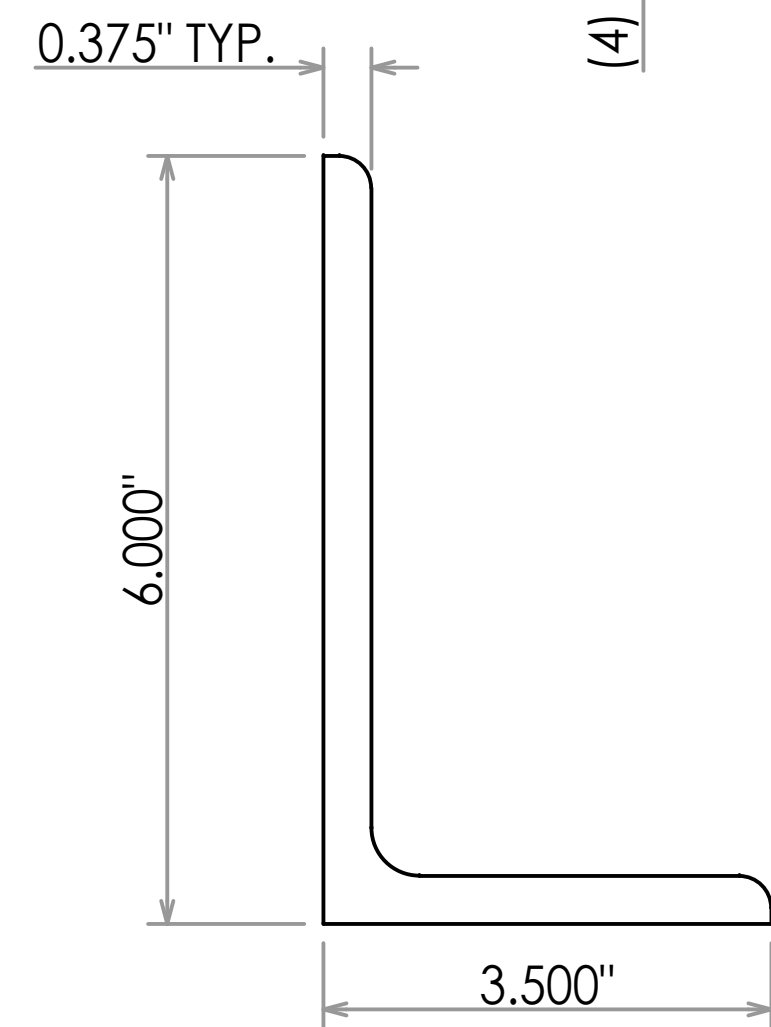
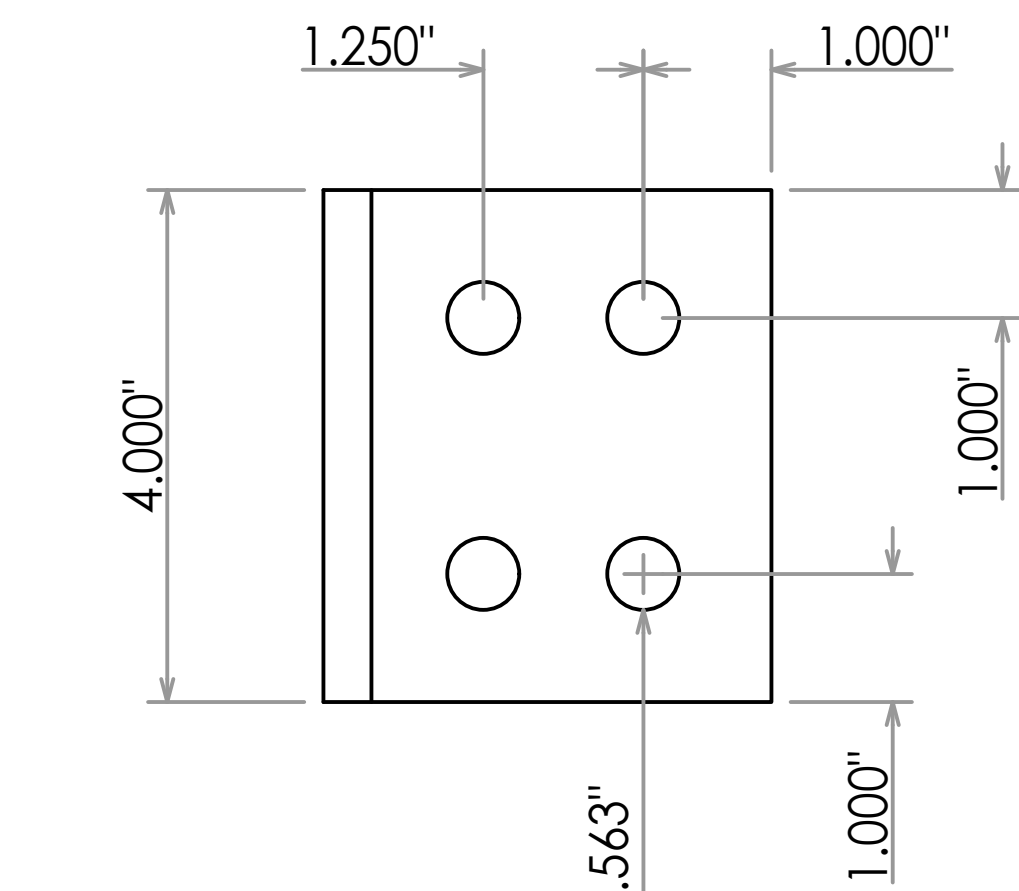
5" Deep Storm Performance Impact Resistant Louver

| No. | By | Description                                 | Date       |
|-----|----|---|------------|
| 0   | DG | ORIGINAL DRAWING                            | 03/06/2019 |
| 1   | DG | UPDATE TO COMPLY WITH 2018 IBC AND 2018 IRC | 01/10/2022 |
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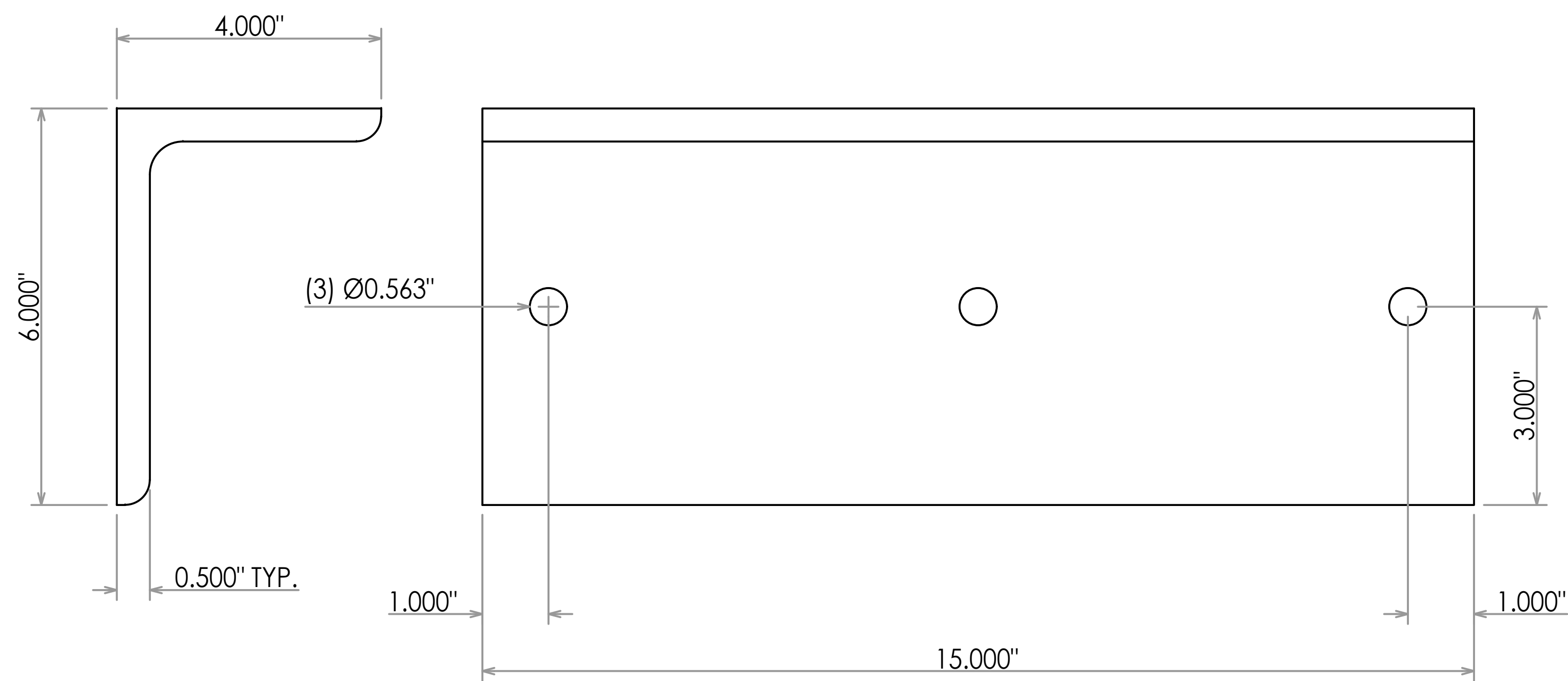
Date: 01/10/2022  
 Drawn By: DG  
 Checked By:

Drawing No. RD1089

Compliance Office Stamp



33 4" LONG 3 1/2" X 6" X 3/8" CLIP ANGLE



34 15" LONG 4" X 6" X 1/2" SHELF ANGLE

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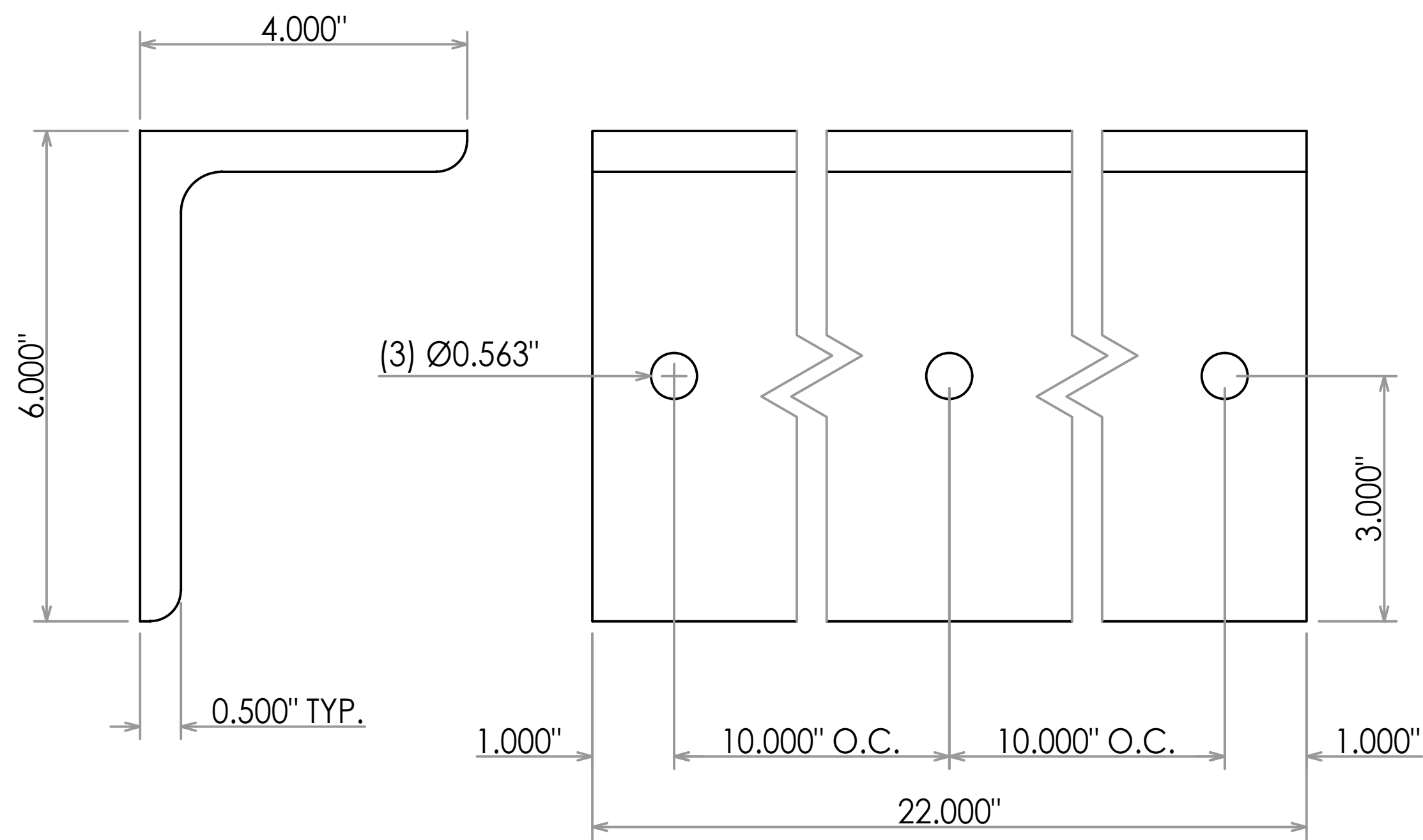
5' Deep Storm Performance Impact Resistant Louver

| No. | By | Description                                 | Date       |
|-----|----|---|------------|
| 0   | DG | ORIGINAL DRAWING                            | 03/06/2019 |
| 1   | DG | UPDATE TO COMPLY WITH 2018 IBC AND 2018 IRC | 01/10/2022 |
|     |    |   |            |
|     |    |   |            |
|     |    |   |            |
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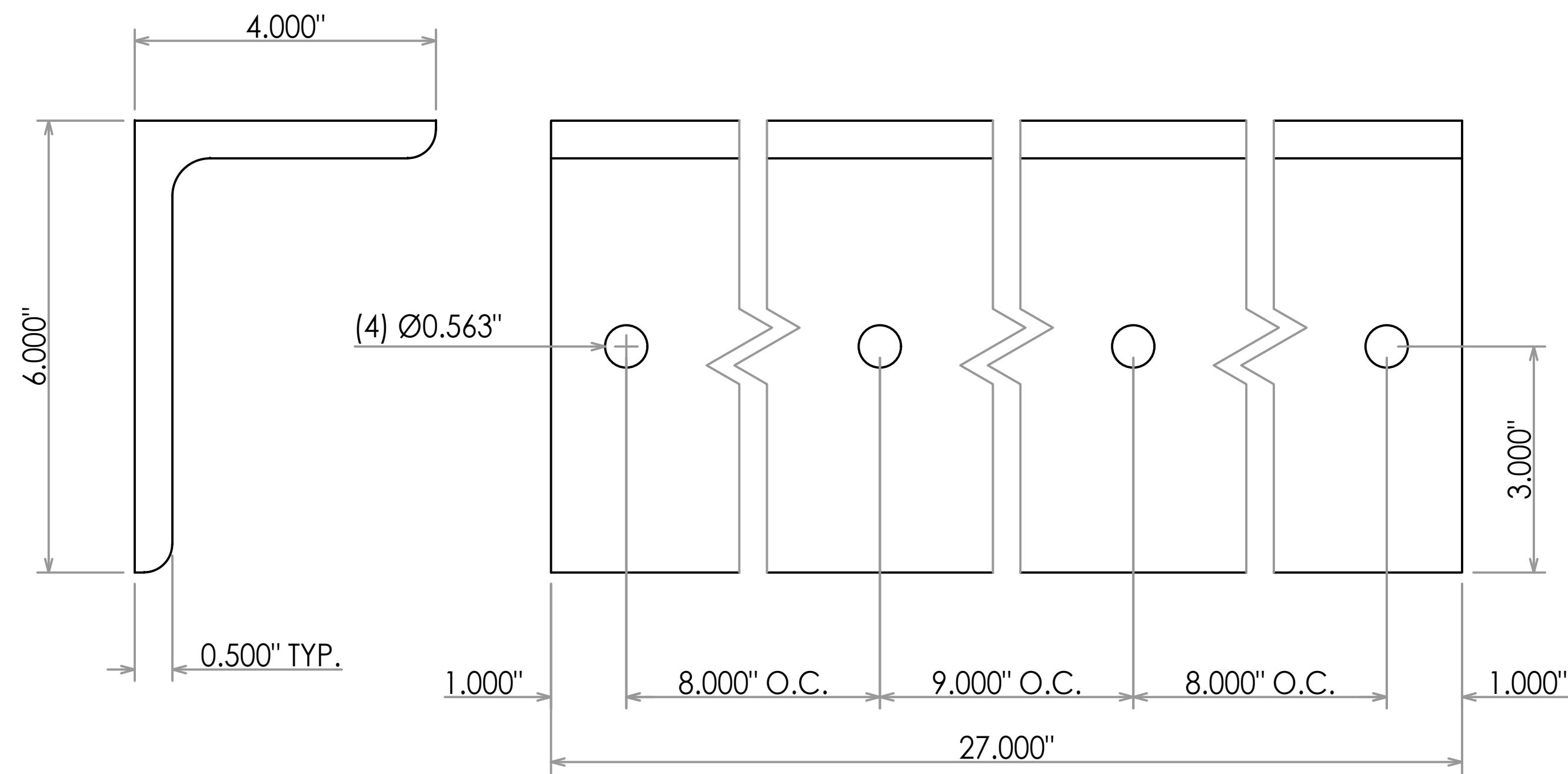
|             |            |
|-------------|------------|
| Date:       | 01/10/2022 |
| Drawn By:   | DG         |
| Checked By: |            |
| Drawing No. | RD1089     |

Compliance Office Stamp



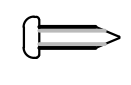


35 22" LONG 4" X 6" X 1/2" SHELF ANGLE

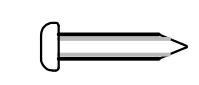


36 27" LONG 4" X 6" X 1/2" SHELF ANGLE

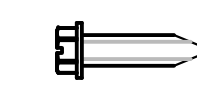
41 #8 X 5/8" SD PH SM SCREW



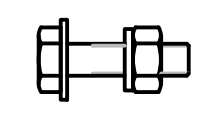
42 #10 X 1" SD PH SM SCREW



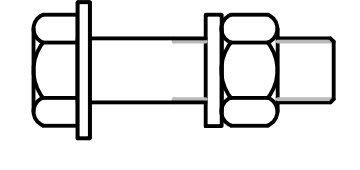
43 #12 X 1" SL HWH SM SCREW



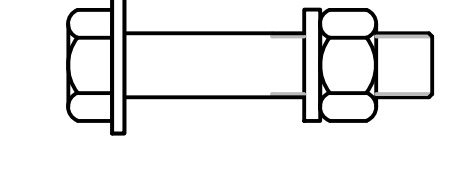
44 1/4"-20 X 1" HH BOLT



45 1/2"-13 X 2" HH BOLT



46 1/2"-13 X 2 1/2" HH BOLT



SP537DC

5' Deep Storm Performance Impact Resistant Louver

| No. | By | Description                                 | Date       |
|-----|----|---|------------|
| 0   | DG | ORIGINAL DRAWING                            | 03/06/2019 |
| 1   | DG | UPDATE TO COMPLY WITH 2018 IBC AND 2018 IRC | 01/10/2022 |
|     |    |   |            |
|     |    |   |            |
|     |    |   |            |
|     |    |   |            |

|             |            |
|-------------|------------|
| Date:       | 01/10/2022 |
| Drawn By:   | DG         |
| Checked By: |            |
| Drawing No. | RD1089     |

Compliance Office Stamp