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NOTES:

- THIS DRAWING INCLUDES INSTALLATION DETAILS TO ATTAIN MAXIMUM DESIGN PRESSURES OF ±100 PSF AS TESTED IN ACCORDANCE WITH PROTOCOLS TAS 201 (LEVEL 'E', 80 FPS), TAS 202, TAS 203, TAS 100A, & AMCA 550.
- THIS LOUVER ASSEMBLY IS DESIGNED PER THE 2018 IBC AND SATISFIES THE TEXAS DEPARTMENT OF INSURANCE'S CRITERIA FOR PROTECTION FROM WINDBORNE DEBRIS. THE LOUVER ASSEMBLY PASSED AN IMPACT STANDARD EQUIVALENT TO MISSILE LEVEL 'E' SPECIFIED IN ASTM E 1996. THE LOUVER MAY BE INSTALLED AT ANY HEIGHT ON THE STRUCTURE AS LONG AS THE DESIGN PRESSURE RATING FOR THE ASSEMBLY IS NOT EXCEEDED.
- UNITS OF MEASURE ARE FRACTIONAL INCHES UNLESS OTHERWISE SPECIFIED.
- IT IS ASSUMED THAT THE LOUVER SYSTEMS DO NOT SUPPORT ANY LOADS TRANSFERRED FROM THE BUILDING CONDITION.
- IT IS ASSUMED THAT THE BUILDING CONDITIONS ARE ADEQUATELY DESIGNED TO SUPPORT LOADS IMPARTED BY THE LOUVER SYSTEM.
- TO PREVENT GALVANIC CORROSION, ELECTROCHEMICALLY DISSIMILAR MATERIALS IN CONTACT WITH ONE ANOTHER SHALL BE PROTECTED BY PAINT, GASKETING OR OTHER MEANS.
- SINCE THE DESIGN MEETS THE PERFORMANCE STANDARDS OF TAS 100A AND AMCA 550, THE ROOM BEHIND THE LOUVER NEED NOT BE DESIGNED TO DRAIN WATER PENETRATION INTO THE ROOM, AND MAY HOUSE NON-WATER RESISTANT EQUIPMENT, COMPONENTS, OR SUPPLIES.
- OTHER BUILDING CONDITIONS THAN THOSE DENOTED CAN BE UTILIZED IF ANALYZED AND APPROVED BY A PROFESSIONAL ENGINEER.
- MULTI-SECTION HIGH LOUVER SYSTEMS ARE ALLOWABLE PROVIDED THE INDIVIDUAL SECTIONS ARE SUPPORTED PER THE DETAILS ON THIS DRAWING AND A SUITABLE SUPPORT STRUCTURE IS ANALYZED AND APPROVED BY A PROFESSIONAL ENGINEER.
- TO PREVENT WATER INFILTRATION BETWEEN THE LOUVER AND THE BUILDING CONDITION, LOUVERS SHALL BE INSTALLED WITH CAULK AND BACKER ROD AROUND THE ENTIRE PERIMETER OF THE OPENING, FOR MULTIPLE SECTION WIDE LOUVER ASSEMBLIES, CAULK AND BACKER ROD SHALL ALSO BE APPLIED AT EVERY VERTICAL JOINT BETWEEN SECTIONS.

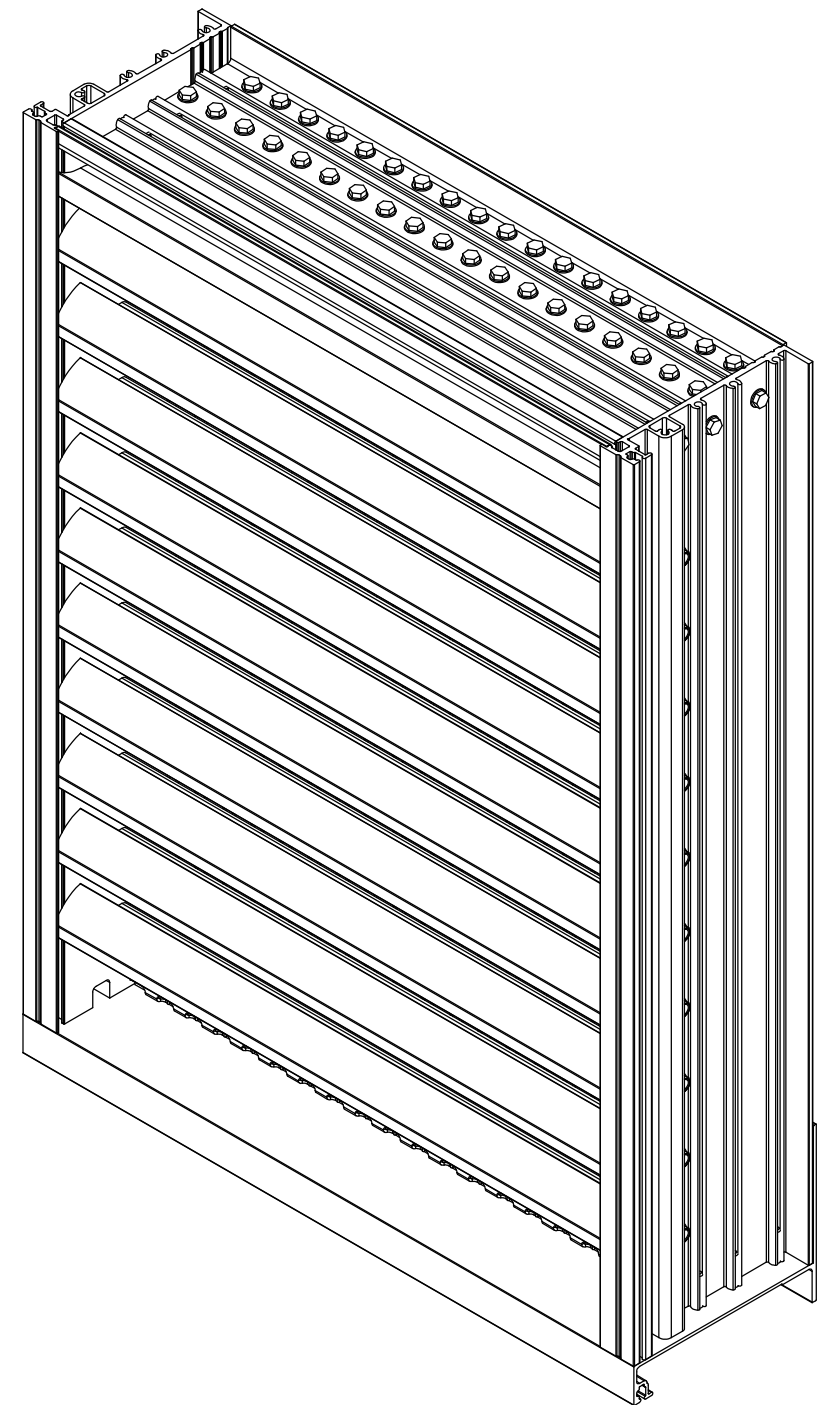
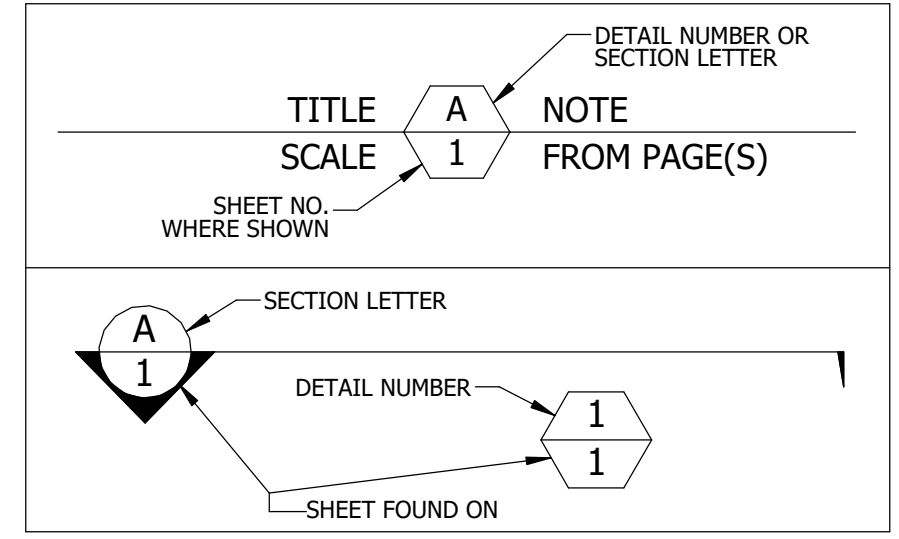


TABLE 1		
SINGLE SECTION SIZE LIMITATIONS		
MAX DESIGN PRESSURE	MIN (W X H)	MAX (W X H)
±100 PSF	11 1/2" X 11 1/2"	60" X 96"

TABLE 2	
MULTIPLE SECTION SIZE LIMITATIONS (MAX DESIGN PRESSURE: ±100 PSF)	
SINGLE SECTION HIGH - UNLIMITED WIDTH	SEE SHEET 5



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RICE ENGINEERING

105 School Creek Trail
Luxemburg, WI 54217
Phone: (920)-617-1042
Fax: (920)-617-1100
www.rice-inc.com

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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1	REVISE NOTE 2	12/8/2022	JMR
0	INITIAL RELEASE	6/28/2022	JMR

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

TOLERANCE UNLESS NOTED:

X.X	±0.060
X.XX	±0.030
X.XXX	±0.010
ANGLE	±1°
FRACTION	±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

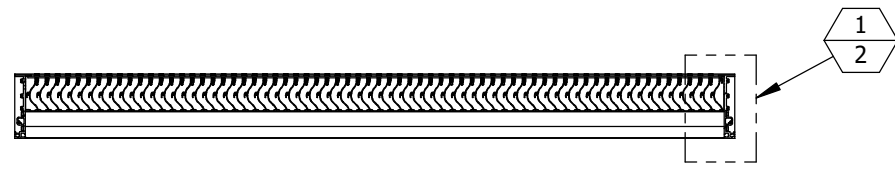
POTTORFF

THIRD ANGLE PROJECTION

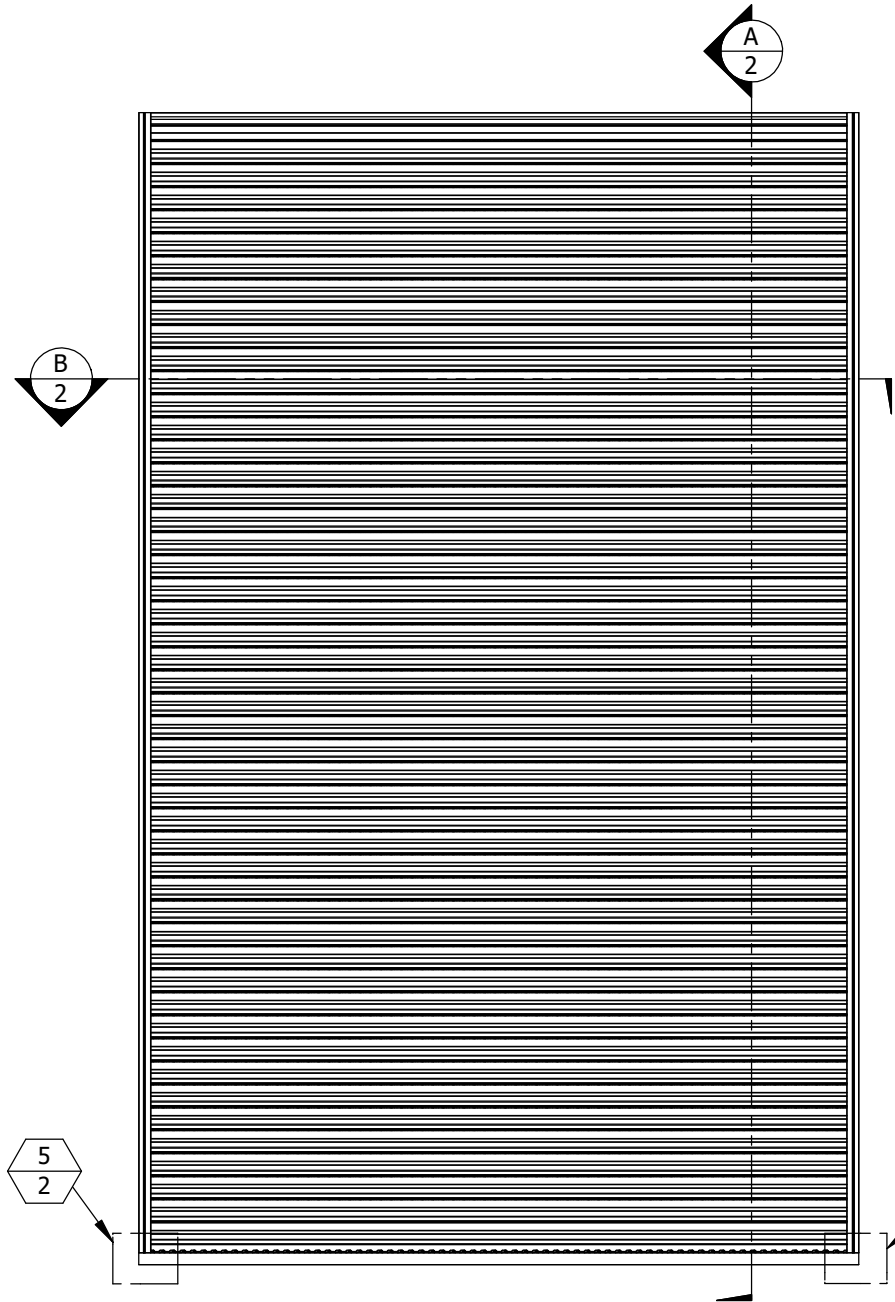
5101 Blue Mound Road
Fort Worth, Texas 76106
Phone: 817-509-2300
Fax: 817-831-3110

DRAWING DESCR: COVER SHEET		PROJECT: EDV-545-MD	
PROJ. MGR.:	DRAWN BY: JMR	DRAWING NUMBER	
DATE: 6/28/2022	CHK'D BY: NWW	EDV-545-MD TDI	
SHEET: 1 of 9	SCALE: NONE		

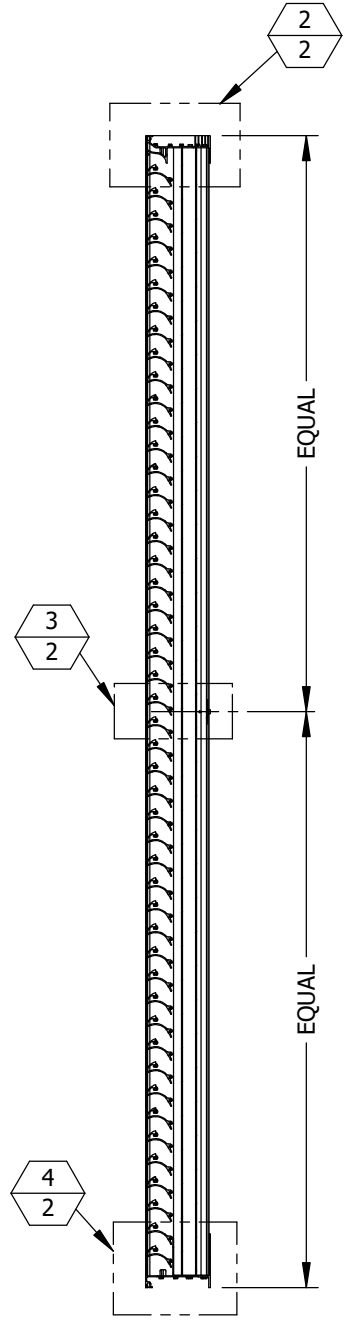
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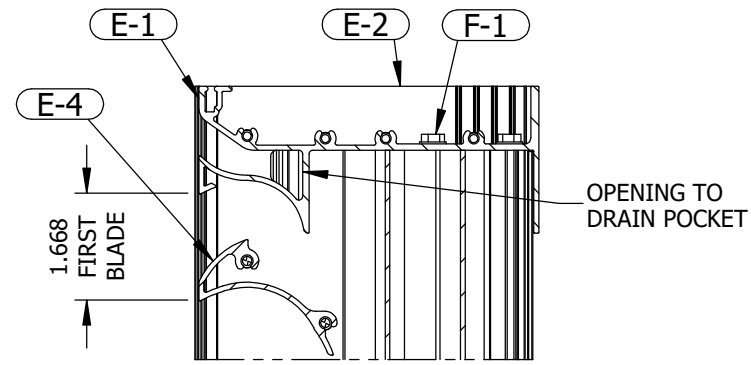
HORIZONTAL SECTION **B** GENERAL ASSEMBLY
SCALE: 3/4"=1'-0" SHEET 2



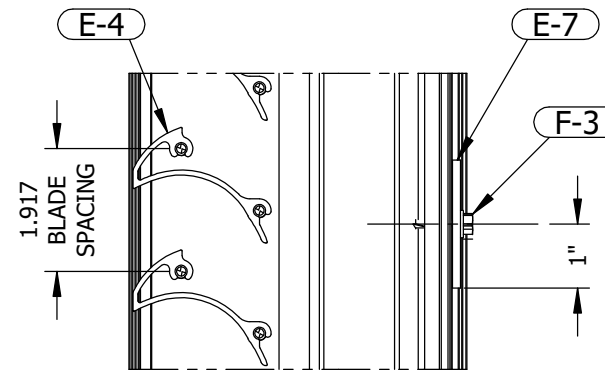
EXTERIOR ELEVATION



VERTICAL SECTION **A** GENERAL ASSEMBLY
SCALE: 3/4"=1'-0" SHEET 2

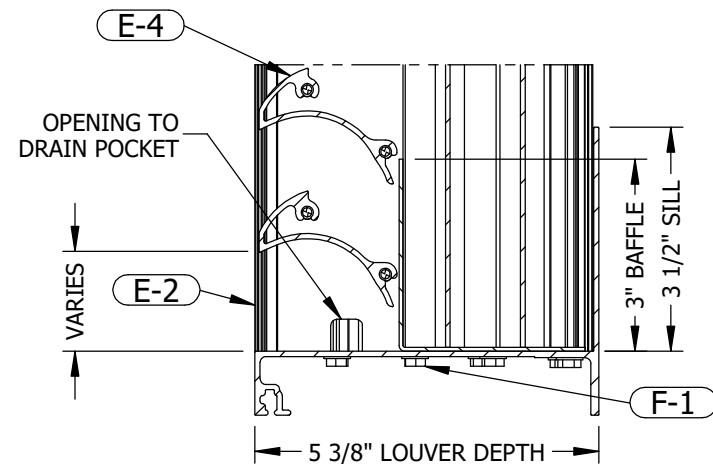


SECTION DETAIL **2** FRAME HEAD
SCALE: 4"=1'-0" SHEET 2

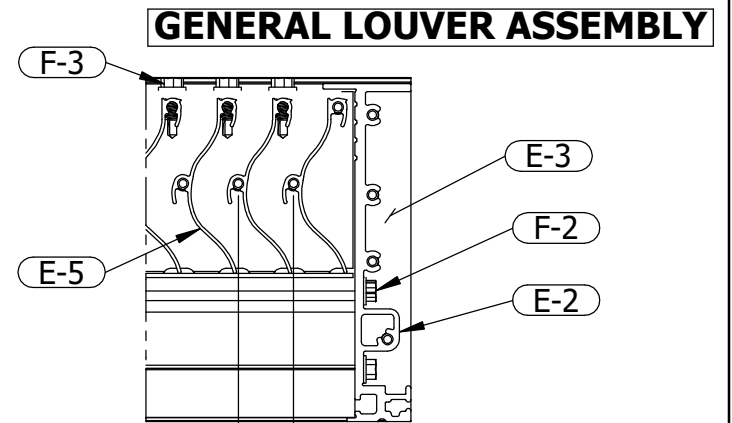


SECTION DETAIL **3** STIFFENER
SCALE: 4"=1'-0" SHEET 2

STIFFENER (E-5) AND ASSOCIATED FASTENERS (F-2) OMITTED IF SECTION HEIGHT ≤ 48"



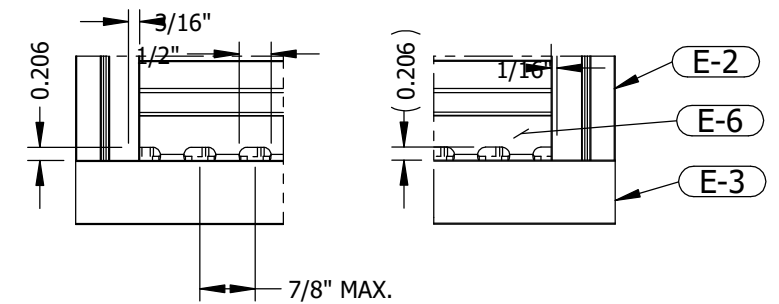
SECTION DETAIL **4** FRAME SILL
SCALE: 4"=1'-0" SHEET 2



GENERAL LOUVER ASSEMBLY

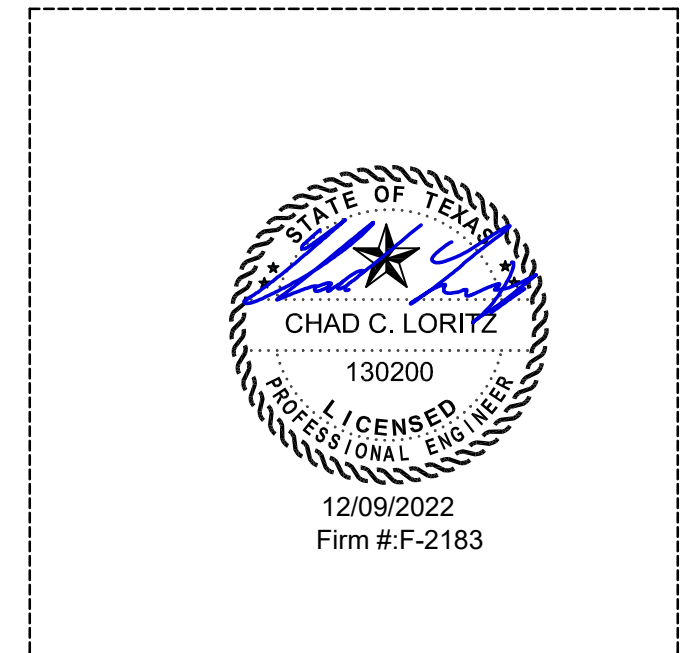
7/8" MAX. BLADE SPACING

SECTION DETAIL **1** FRAME JAMB
SCALE: 4"=1'-0" SHEET 2



ELEVATION DETAIL **5** BAFFLE OPENING LAYOUT
SCALE: 4"=1'-0" SHEET 2

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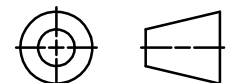
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

TOLERANCE UNLESS NOTED:
X.X ±0.060
X.XX ±0.030
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

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THIRD ANGLE PROJECTION



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DRAWING DESCR:
GENERAL LOUVER ASSEMBLY

PROJECT: EDV-545-MD

PROJ. MGR.:

DRAWN BY: JMR

DATE: 6/28/2022

CHK'D BY: NWW

DRAWING NUMBER

SHEET: 2 of 9

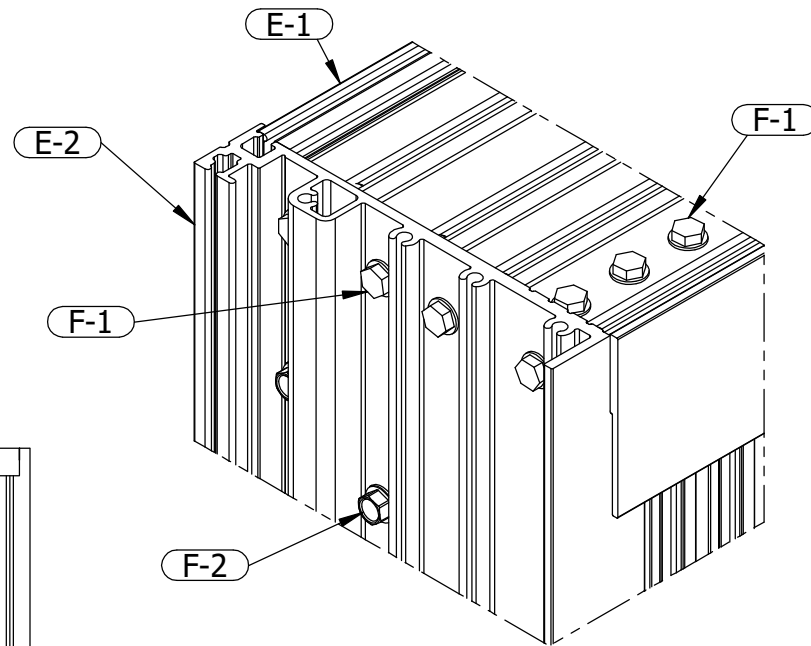
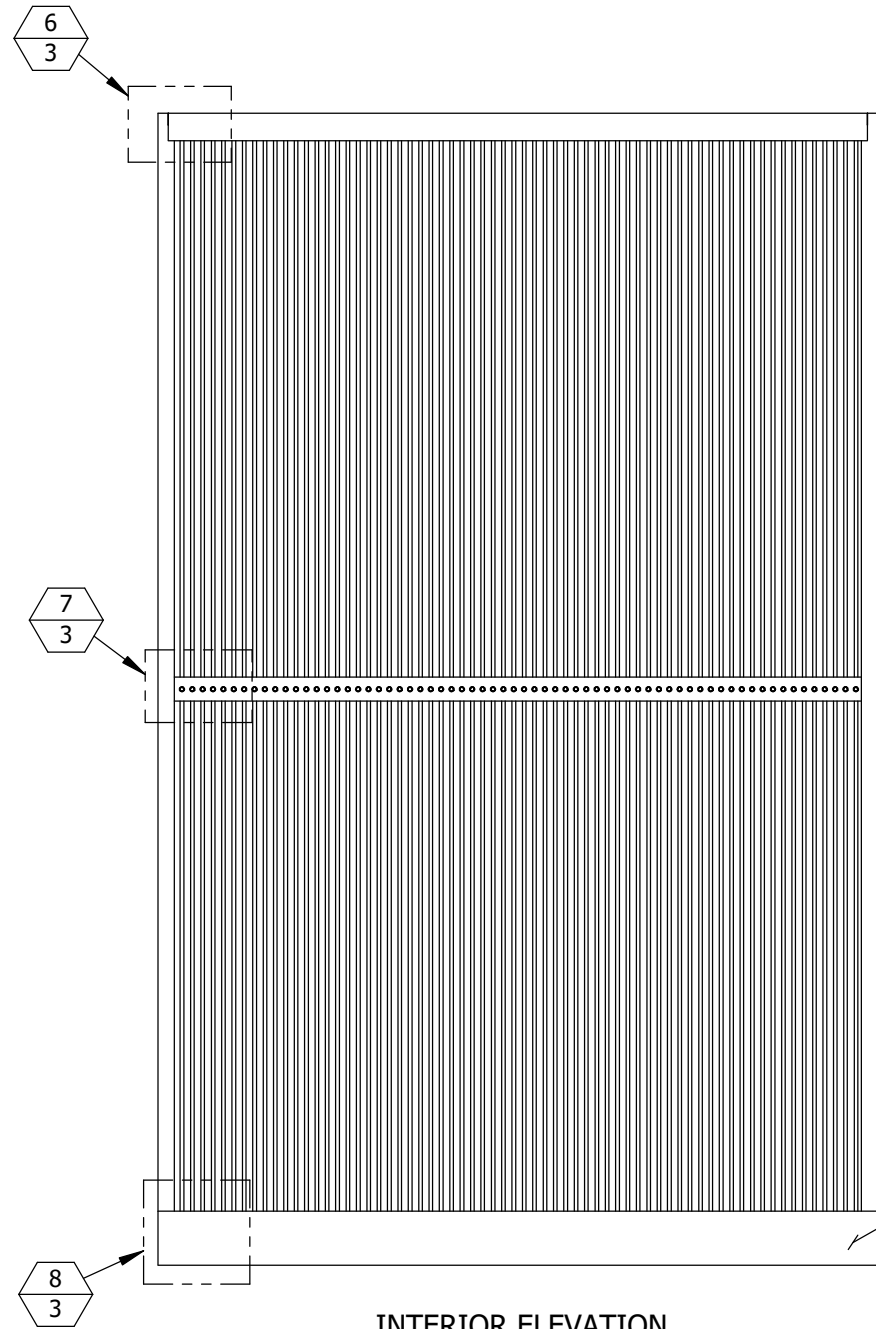
SCALE: 3/4"=1'-0"

EDV-545-MD TDI

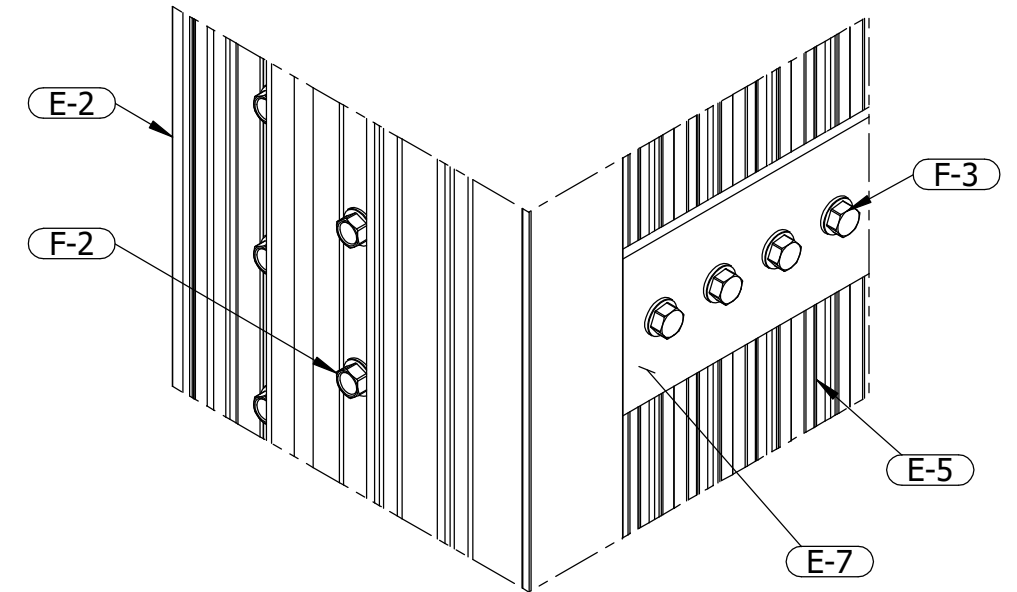
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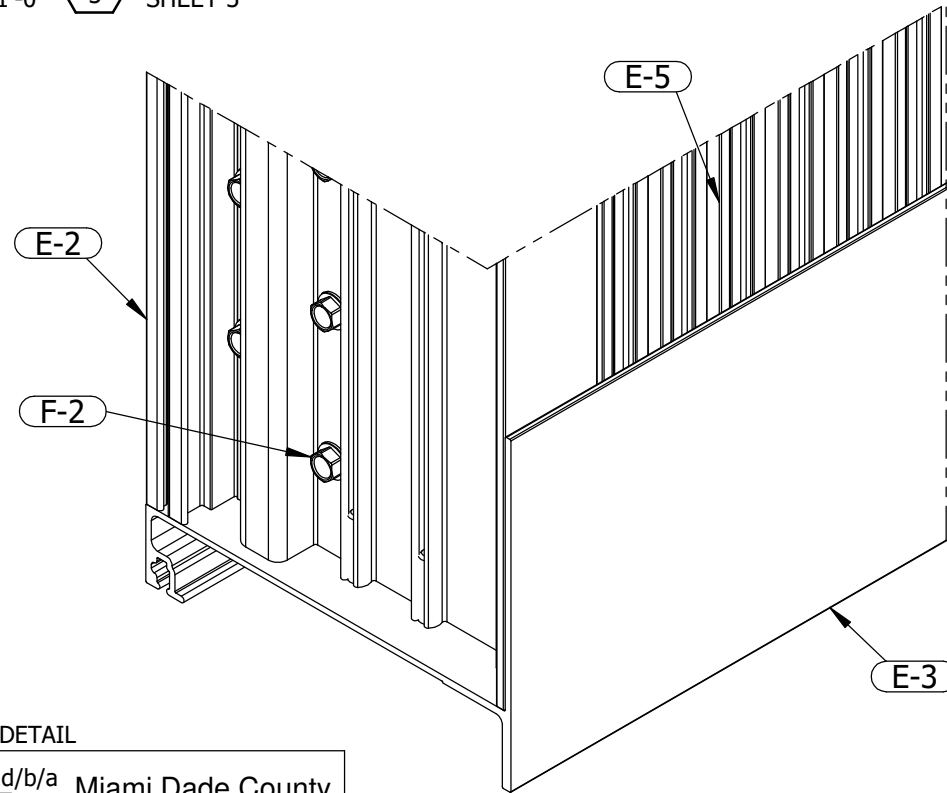
GENERAL LOUVER ASSEMBLY



ASSEMBLY DETAIL **6** UPPER CORNER
SCALE: 6"=1'-0" **3** SHEET 3



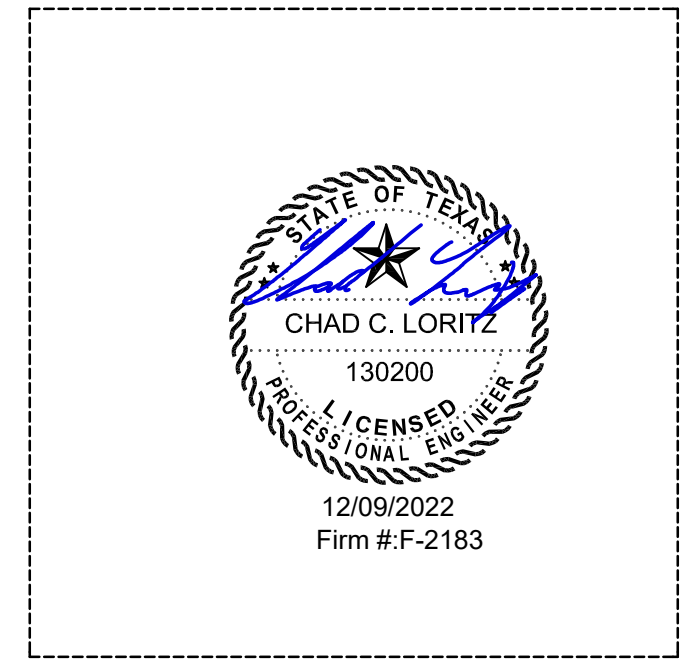
ASSEMBLY DETAIL **7** BLADE SUPPORT
SCALE: 6"=1'-0" **3** SHEET 3
STIFFENER (E-7) AND ASSOCIATED FASTENERS (F-2)
OMITTED IF SECTION HEIGHT ≤ 48"



ASSEMBLY DETAIL **8** LOWER CORNER
SCALE: 6"=1'-0" **3** SHEET 3

ENGRAVED LABEL DETAIL
 PCI Industries LLC d/b/a **POTTORFF** Miami Dade County
 Ft Worth TX Product Control
 SO# 123456 Approved

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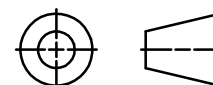
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 DIMENSIONS ARE IN INCHES.

TOLERANCE UNLESS NOTED:
 X.X ±0.060
 X.XX ±0.030
 X.XXX ±0.010
 ANGLE ±1°
 FRACTION ±1/16

MAX HOLE BREAKOUT:
 15% OF MATERIAL THICKNESS

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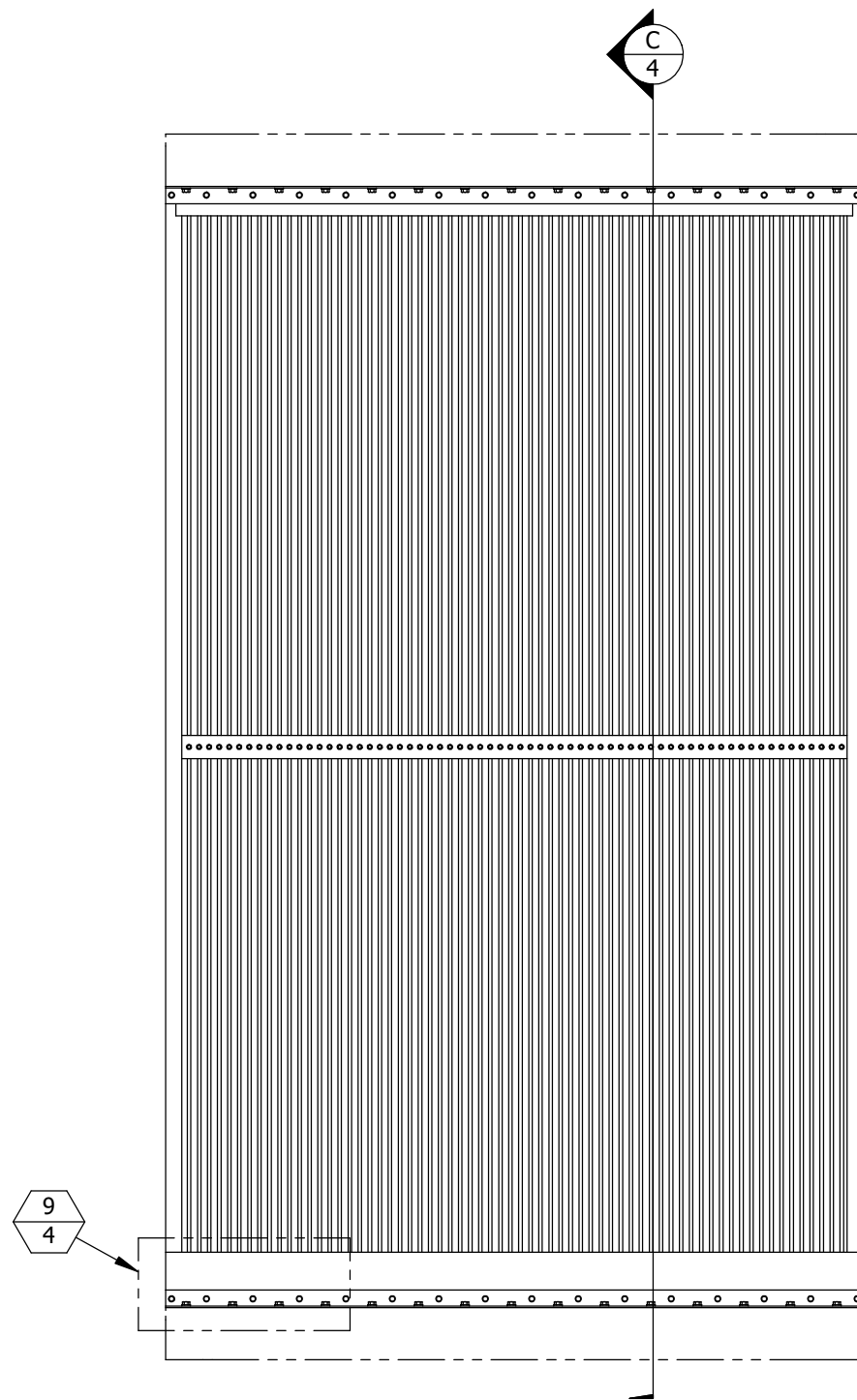
THIRD ANGLE PROJECTION



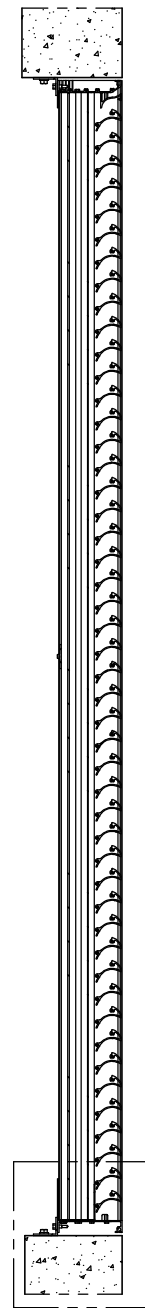
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DRAWING DESCR: GENERAL LOUVER ASSEMBLY		PROJECT: EDV-545-MD	
PROJ. MGR.:	DRAWN BY: JMR	DRAWING NUMBER	
DATE: 6/28/2022	CHK'D BY: NWW	EDV-545-MD TDI	
SHEET: 3 of 9	SCALE: 3/4"=1'-0"		

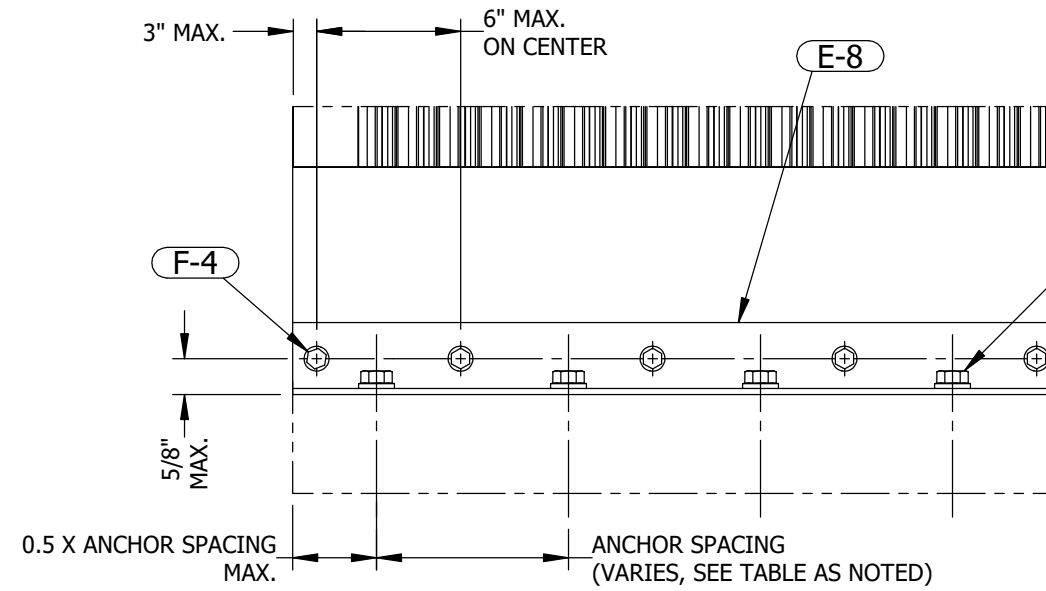
SINGLE-SECTION INSTALLATION



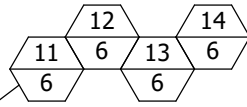
INTERIOR ELEVATION



VERTICAL SECTION **C** LOUVER INSTALLATION
SCALE: 3/4"=1'-0" **4** SHEETS 4 & 5



ELEVATION DETAIL **9** TOP & BTM ATTACHMENT
SCALE NTS **4** SHEETS 4 & 5



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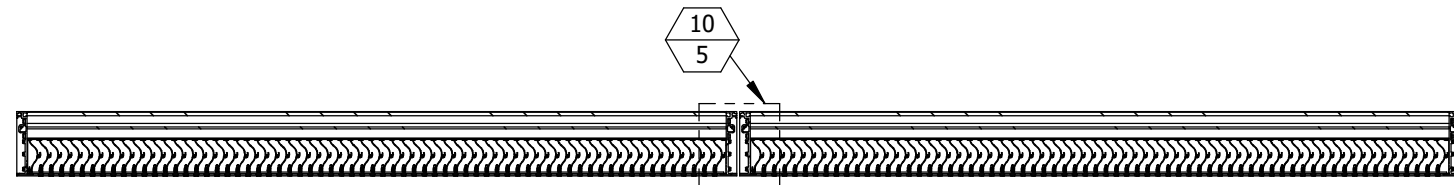
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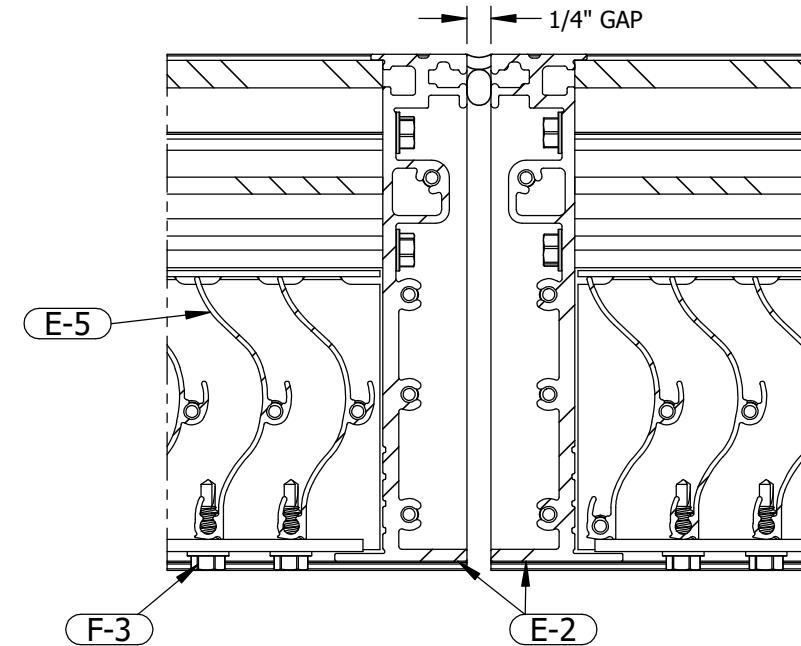
DRAWING DESCR: SINGLE-SECTION INSTALLATION		PROJECT: EDV-545-MD	
PROJ. MGR.:	DRAWN BY: JMR	DRAWING NUMBER	
DATE: 6/28/2022	CHK'D BY: NWW	EDV-545-MD TDI	
SHEET: 4 of 9	SCALE: 3/4"=1'-0"		

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MULTI-SECTION WIDE INSTALLATION

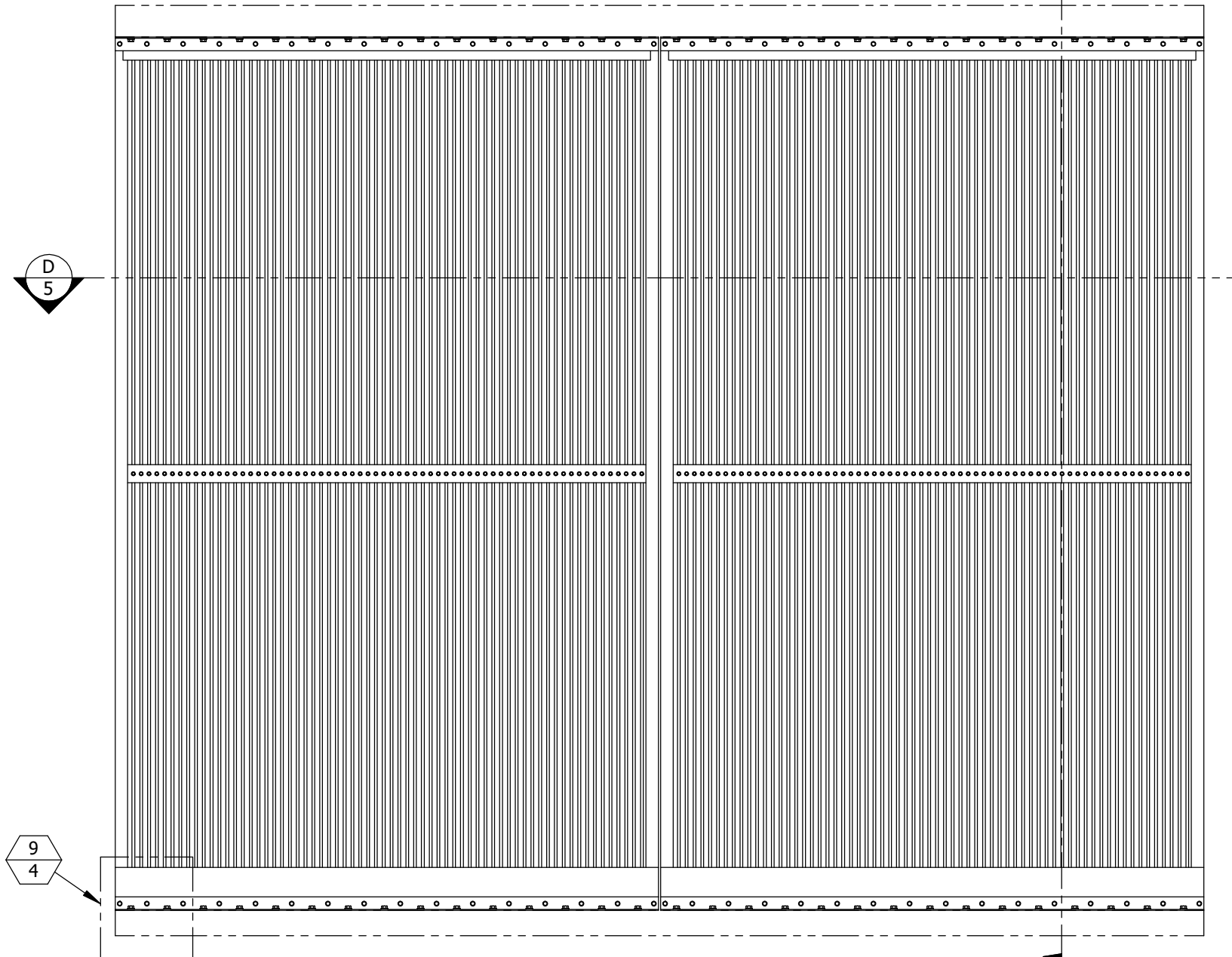


HORIZONTAL SECTION D
5 MULTI-WIDE ASSEMBLY
SCALE: 3/4"=1'-0" SHEET 5



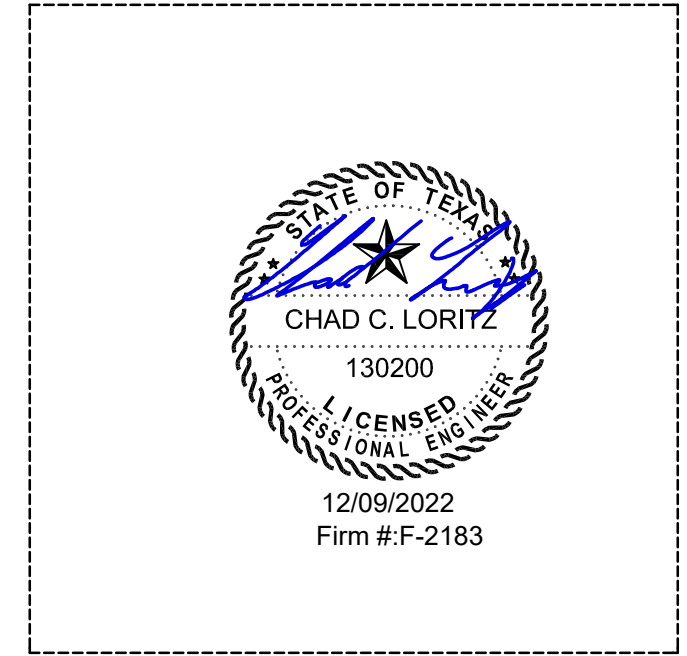
SECTION DETAIL 10
5 VERTICAL MULLION
SCALE: 6"=1'-0" SHEET 5

QUANTITY OF SECTIONS WIDE IS UNLIMITED



INTERIOR ELEVATION
QUANTITY OF SECTIONS WIDE IS UNLIMITED

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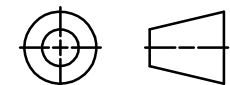
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.

TOLERANCE UNLESS NOTED:
X.X ±0.060
X.XX ±0.030
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

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THIRD ANGLE PROJECTION



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DRAWING DESCR:
MULTI-SECTION WIDE INSTALLATION

PROJECT: EDV-545-MD

PROJ. MGR.:

DRAWN BY: JMR

DATE: 6/28/2022

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DRAWING NUMBER

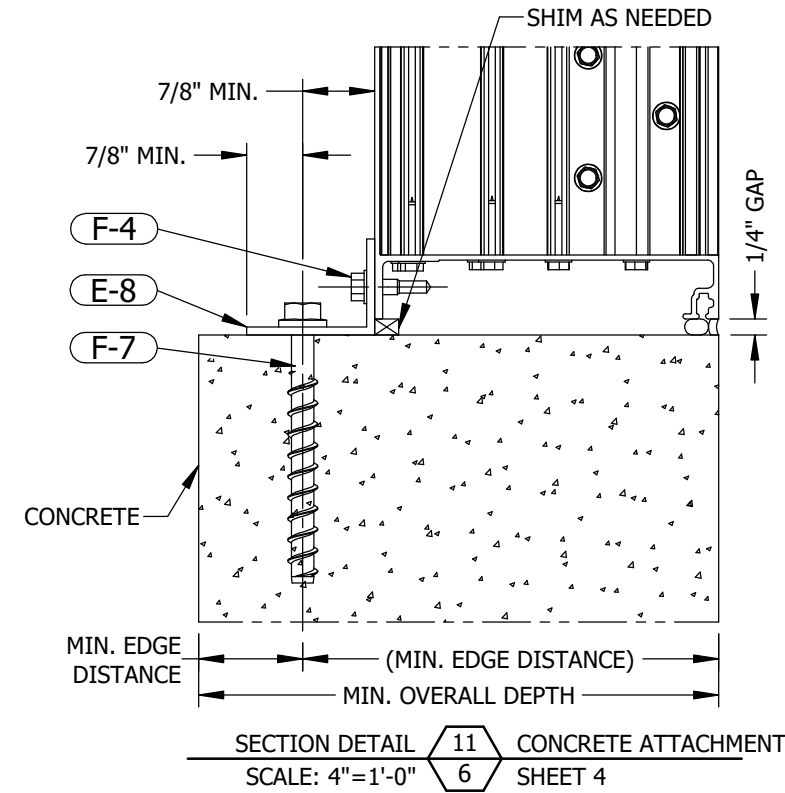
SHEET: 5 of 9

SCALE: 3/4"=1'-0"

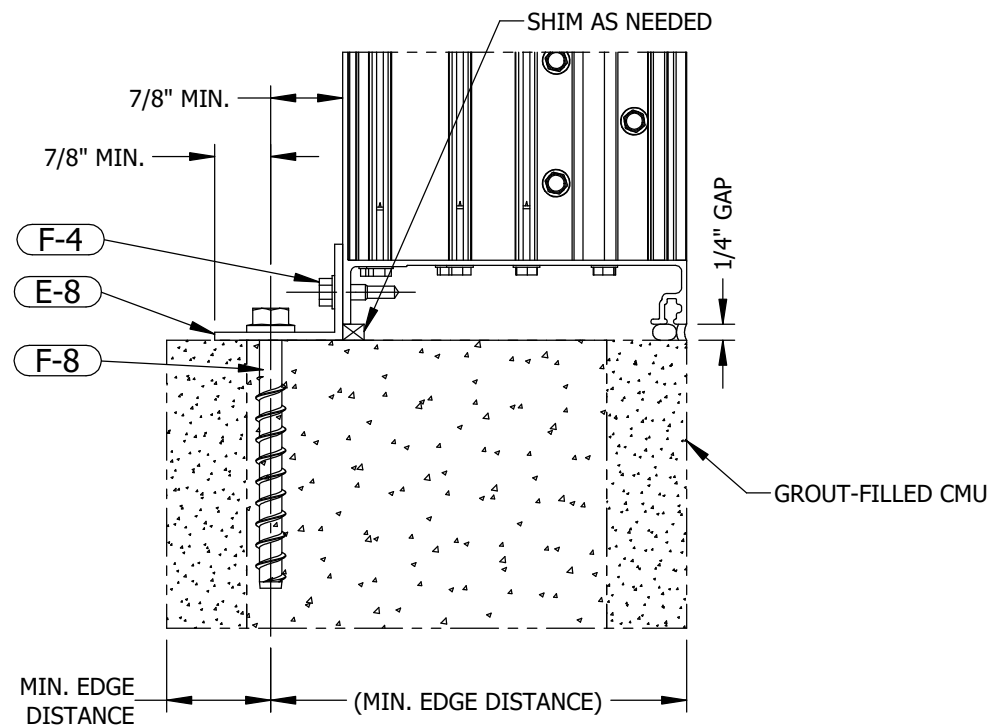
EDV-545-MD TDI

REV.	DESCRIPTION	DATE	DRAWN BY
1	REVISE NOTE 2	12/8/2022	JMR
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INSTALLATION DETAILS
CONCRETE - CMU



SECTION DETAIL 11 CONCRETE ATTACHMENT
SCALE: 4"=1'-0" SHEET 4



SECTION DETAIL 12 CMU ATTACHMENT
SCALE: 4"=1'-0" SHEET 4

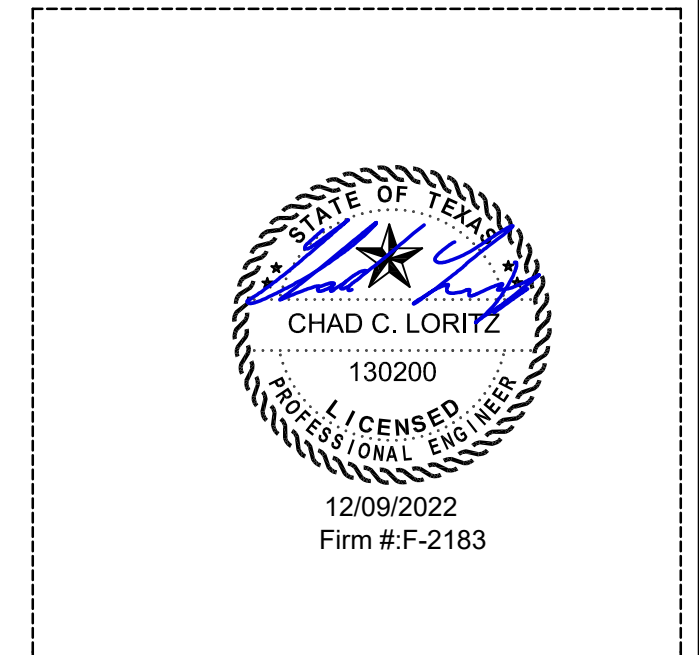
ANCHOR CENTERS MAY BE LOCATED NO CLOSER THAN 1-1/4" TO A VERTICAL (HEAD) JOINT IN THE MASONRY.

SUBSTRATE				ANCHOR			MAX. SECTION HEIGHT	MAX. SPACING	MIN. EDGE DISTANCE	MIN. EMBEDMENT	ANGLE HOLE MAX.	SUBSTRATE HOLE, MAX.	
TYPE	MATERIAL	MIN. OVERALL DEPTH	THICKNESS MIN.	TYPE	MAT'L	DIA.							
CRACKED CONCRETE (F-7)	2.5 KSI	4	5 1/2	DEWALT SCREW-BOLT+	COATED STEEL	1/4	48	8	1 1/2	2 1/2	5/16	1	
		4 1/2	4 1/2			96	4						
		4	5 1/2		3/8	48	8						
		5 1/4	8			96	6						
GROUT-FILLED CMU (F-8)	1.5 KSI	CMU BLOCK TO CONFORM TO ASTM C-90			ELCO AGGRE-GATOR	300 SS	1/4	48	12	2	2	1/4	1
					DEWALT SCREW-BOLT+	COATED STEEL		96	6				
							3/8	48	7 1/2	1 1/2	2 1/2	5/16	
						96		3 3/4					
						GALV. STEEL	48	9 3/4					
					96		4 3/4						

NOTES:

- 1 SEE FASTENER MANUFACTURERS INSTRUCTION.
- 2 UNLESS FASTENERS ARE 300 SS OR GALV., SEAL FASTENERS ATTACHING TO THE SUBSTRATE WITH LIQUID PROSOCO FLASHING OR EQUAL.

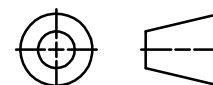
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.
TOLERANCE UNLESS NOTED:
X.X ±0.060
X.XX ±0.030
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16
MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

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THIRD ANGLE PROJECTION



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DRAWING DESCR:
INSTALLATION DETAILS, CONCRETE - CMU

PROJECT: EDV-545-MD

PROJ. MGR.: DRAWN BY: JMR

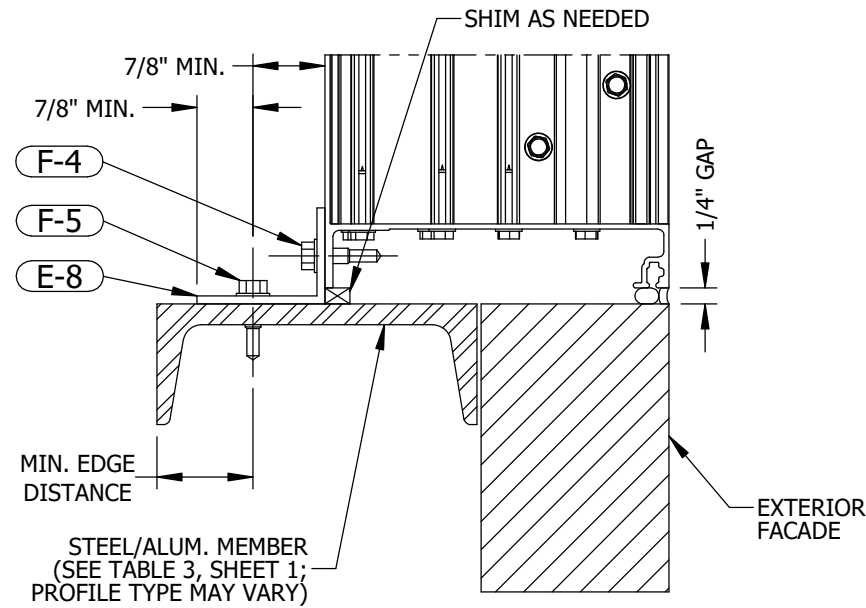
DATE: 6/28/2022 CHK'D BY: NWW DRAWING NUMBER

SHEET: 6 of 9 SCALE: AS NOTED EDV-545-MD TDI

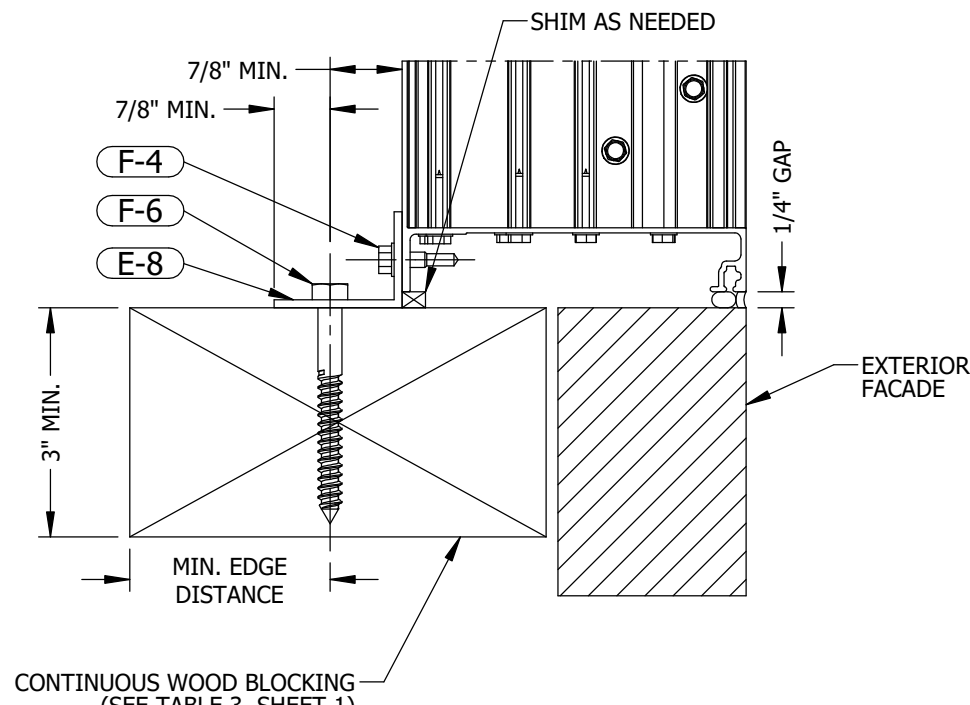
REV.	DESCRIPTION	DATE	DRAWN BY
1	REVISE NOTE 2	12/8/2022	JMR
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INSTALLATION DETAILS

WOOD - STEEL/ALUM.



SECTION DETAIL **13** STEEL/ALUM. ATTACHMENT
SCALE: 4"=1'-0" **6** SHEET 4



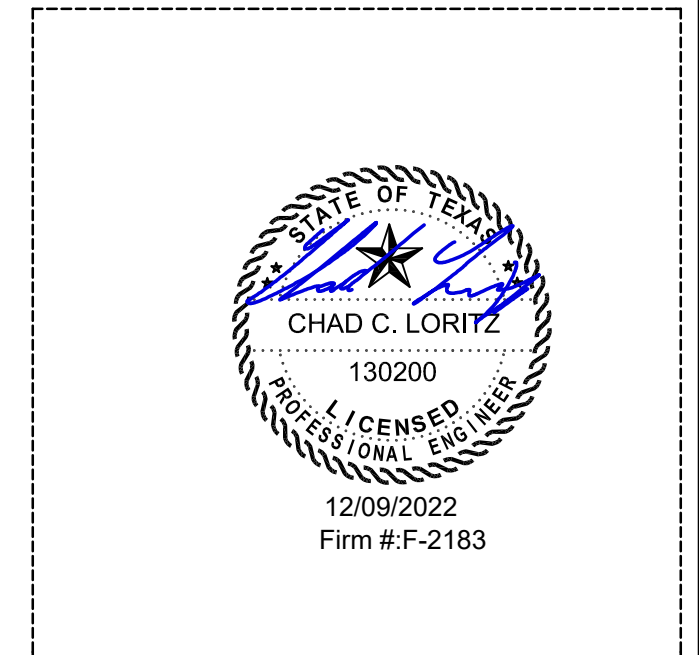
SECTION DETAIL **14** WOOD ATTACHMENT
SCALE: 4"=1'-0" **6** SHEET 4

SUBSTRATE			ANCHOR				MAX. SECTION HEIGHT	MAX. SPACING	MIN. EDGE DISTANCE	MIN. EMBEDMENT	ANGLE HOLE MAX.	SUBSTRATE HOLE, MAX.
TYPE	MATERIAL MIN.	THICKNESS MIN.	TYPE	MAT'L	DIA.							
WOOD (F-6)	S.G. ≥ 0.42	3	LAG SCREW		1/4	48	6	1	2 7/8	1/4		
						96	5 3/4					
					3/8	48	10 1/2	1 1/2		3/8		
						96	5 3/4					
STEEL (F-5)	Fy ≥ 36 KSI, Fy ≥ 58 KSI (A36)	16 GA	1/4-14 SELF DRILLING SCREWS OR THRU BOLT W/ WASHER	2 3 4	1/4	48	8	1/2	FULL	5/16	1	
						96	4					
ALUMINUM (F-5)	Fy ≥ 25 KSI, Fy ≥ 30 KSI (6063-T5)	1/8				48	11					
							96					5 1/2

NOTES:

- 1 SEE FASTENER MANUFACTURERS INSTRUCTION.
- 2 LAG SCREWS SHALL HAVE STRENGTHS OF MINIMUM GRADE 1 STEEL, OTHER BOLT AND SCREWS SHALL HAVE STRENGTHS OF MINIMUM GRADE 2 STEEL.
- 3 ALL INSTALLATION FASTENERS AND ANCHORS SHALL BE OF CORROSION-RESISTANT STEEL.
- 4 UNLESS FASTENERS ARE 300 SS OR GALV., SEAL FASTENERS ATTACHING TO THE SUBSTRATE WITH LIQUID PROSOCO FLASHING OR EQUAL.

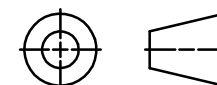
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DRAWING DESCR:
INSTALLATION DETAILS, WOOD - STEEL/ALUM.

PROJECT: EDV-545-MD

PROJ. MGR.: DRAWN BY: JMR

DATE: 6/28/2022 CHK'D BY: NWW DRAWING NUMBER

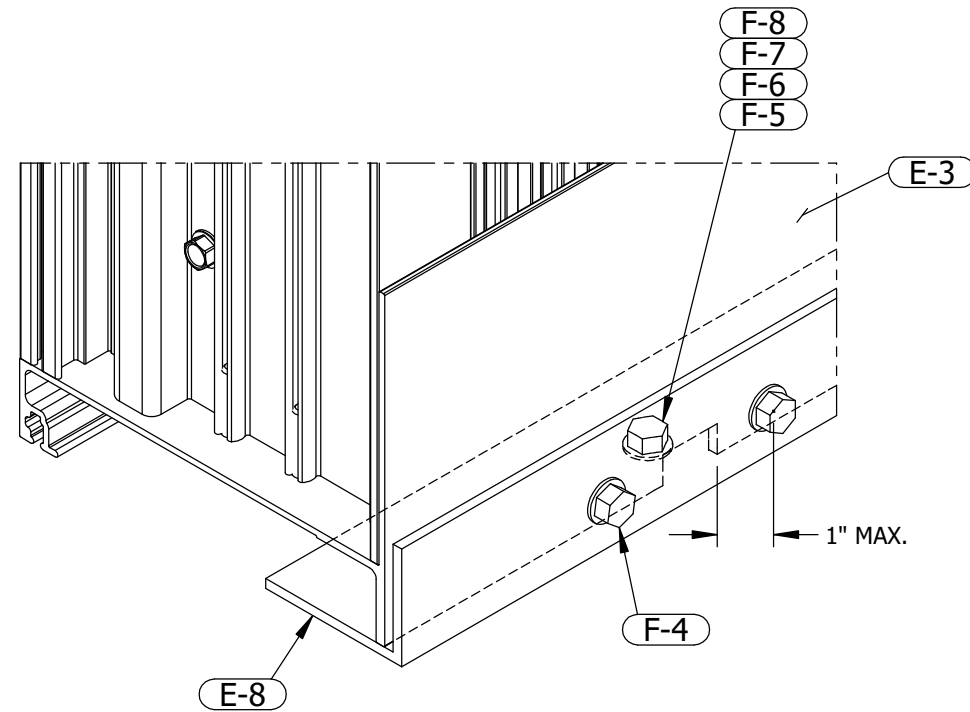
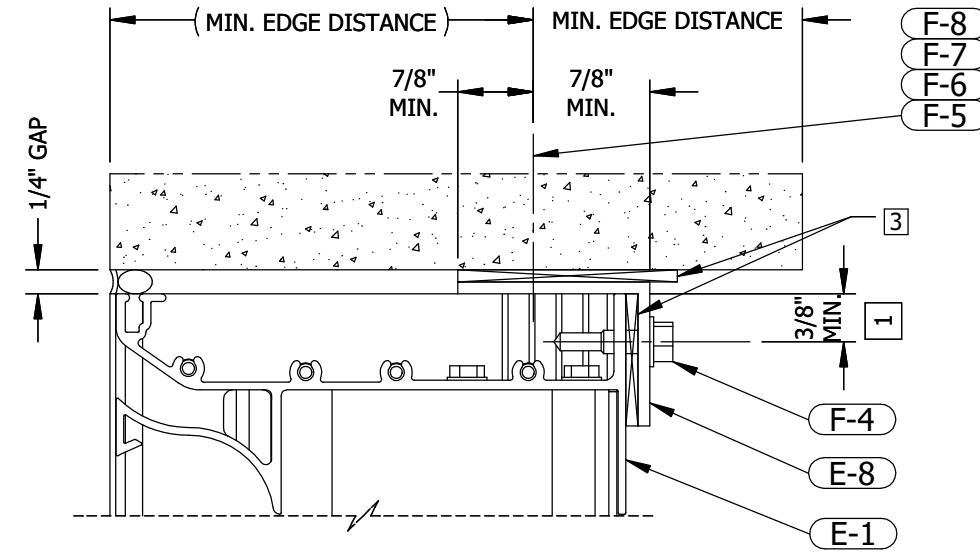
SHEET: 7 of 9 SCALE: AS NOTED EDV-545-MD TDI

REV.	DESCRIPTION	DATE	DRAWN BY
1	REVISE NOTE 2	12/8/2022	JMR
0	INITIAL RELEASE	6/28/2022	JMR

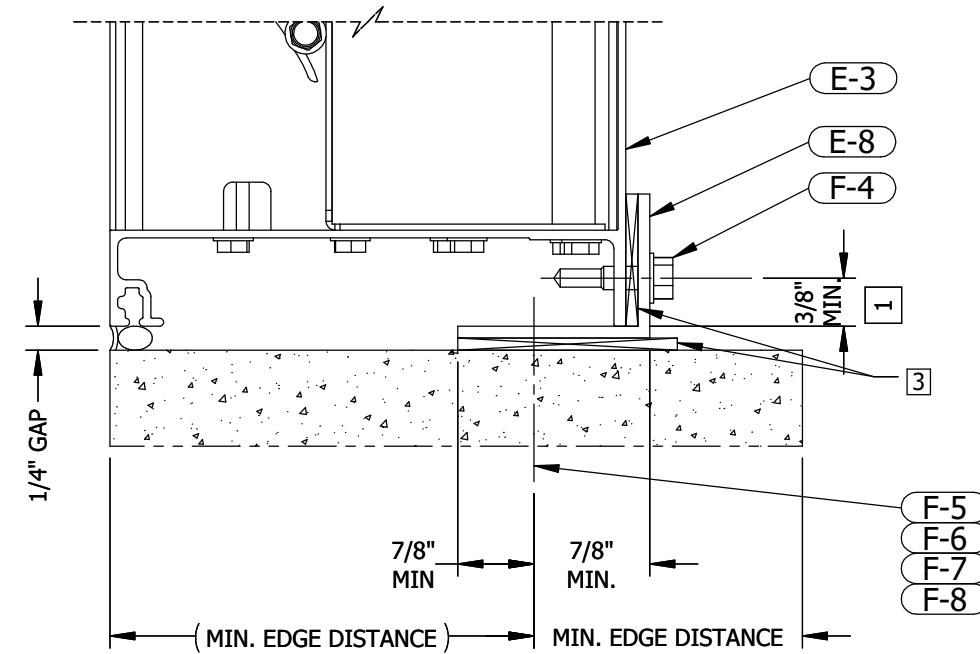
ALTERNATE INSTALL ANGLE OPTION

NOTES:

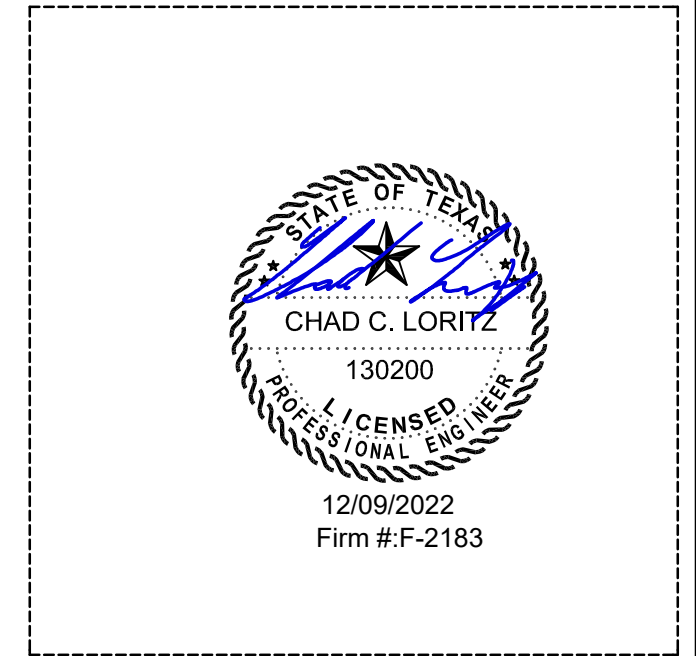
- 1 WHEN INVERTING MOUNTING ANGELS, ADD SHIMS BETWEEN MOUNTING ANGLES AND THE CONDITION AS NECESSARY, IN ORDER TO ENSURE A MINIMUM OF 3/8" SILL/HEAD EDGE DISTANCE TO F-4 FASTENER CENTERS.
- 2 IN SITUATIONS WHERE ADDITIONAL CLEARANCE IS NECESSARY IN ORDER TO CLEAR ANCHOR HEADS, MINIMAL LOCAL NOTCHES CAN BE MADE AS SHOWN. THESE NOTCHES MUST BE ACCOMPANIED BY ADDITIONAL F-4 FASTENERS ON EITHER SIDE OF THE NOTCH AS SHOWN. ADDITIONAL FASTENERS BY OTHERS.
- 3 SHIMS TO BE NON-COMPRESSIBLE, MAX. OF 1/4" THICK. SHIMS TO BE U-SHAPED, LOCATED LOCALLY AT FASTENERS.



NOTE 2 APPLIES TO THIS DETAIL



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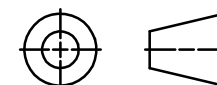
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

TOLERANCE UNLESS NOTED:
 X.X ±0.060
 X.XX ±0.030
 X.XXX ±0.010
 ANGLE ±1°
 FRACTION ±1/16

MAX HOLE BREAKOUT:
 15% OF MATERIAL THICKNESS

POTTORFF

THIRD ANGLE PROJECTION



5101 Blue Mound Road
 Fort Worth, Texas 76106
 Phone: 817-509-2300
 Fax: 817-831-3110

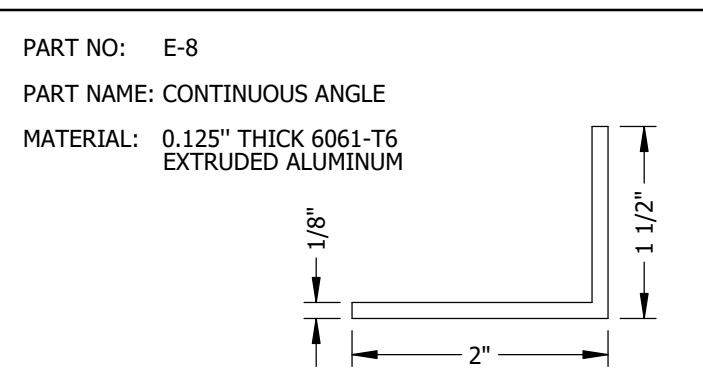
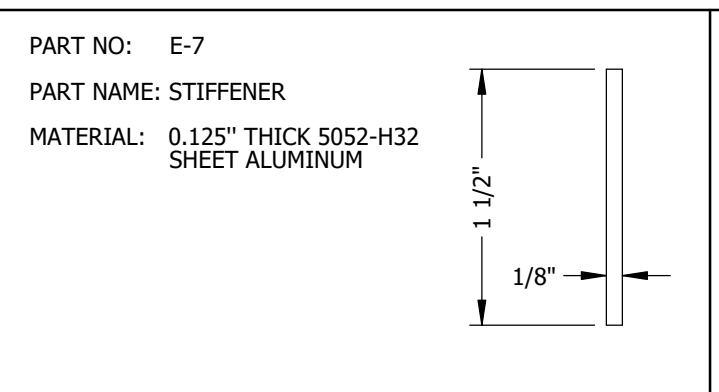
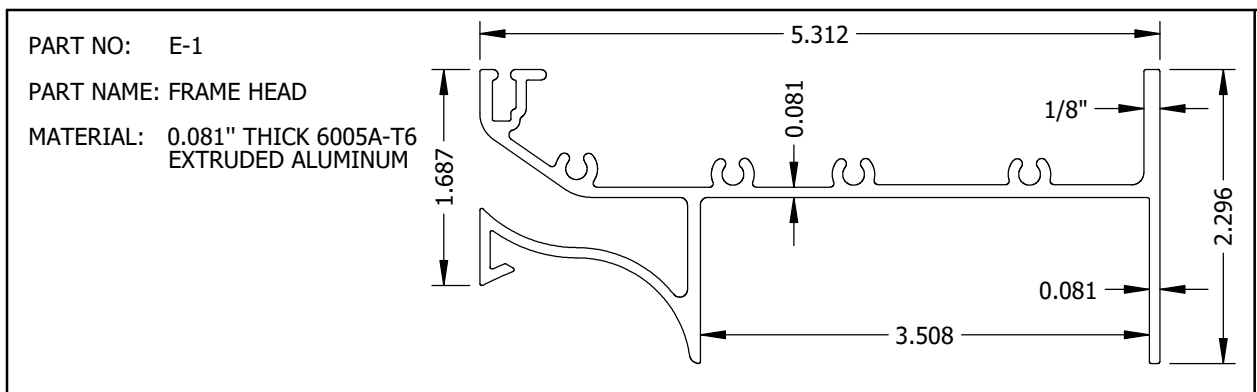
DRAWING DESCR:
 ALTERNATE INSTALL ANGLE OPTION

PROJECT: EDV-545-MD

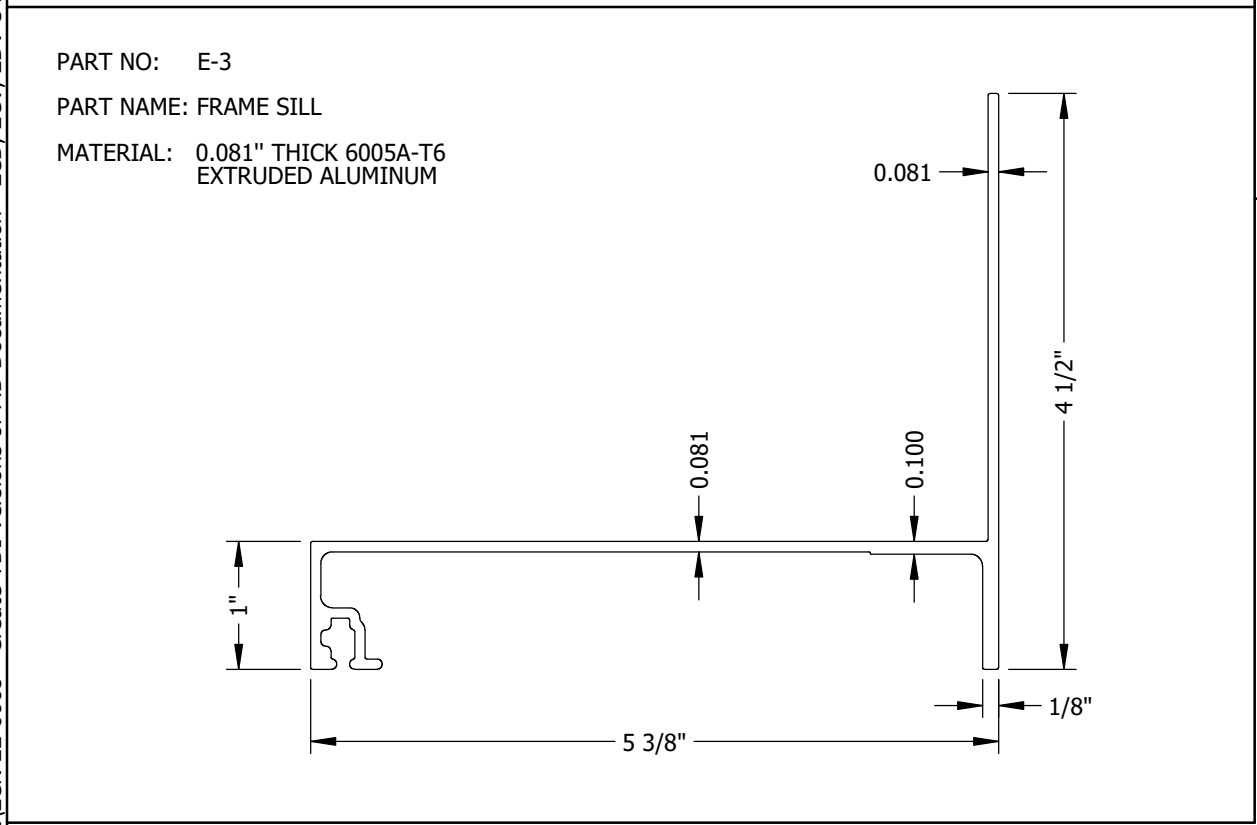
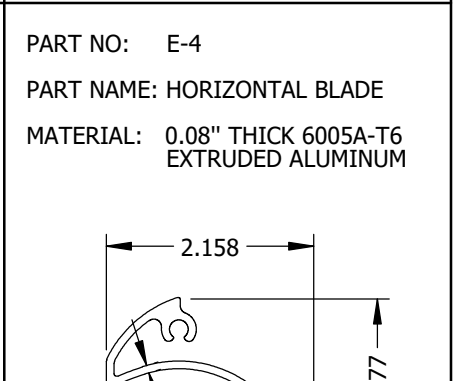
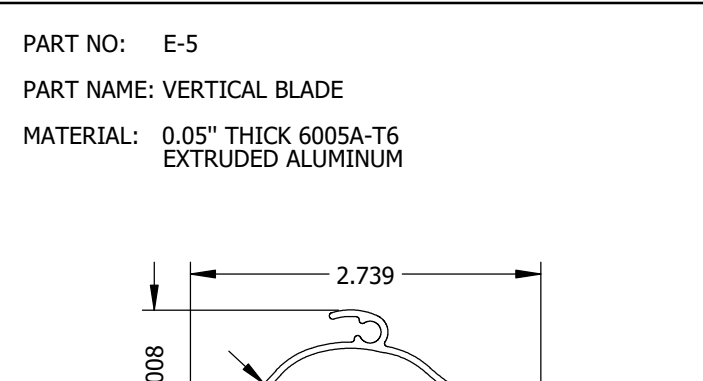
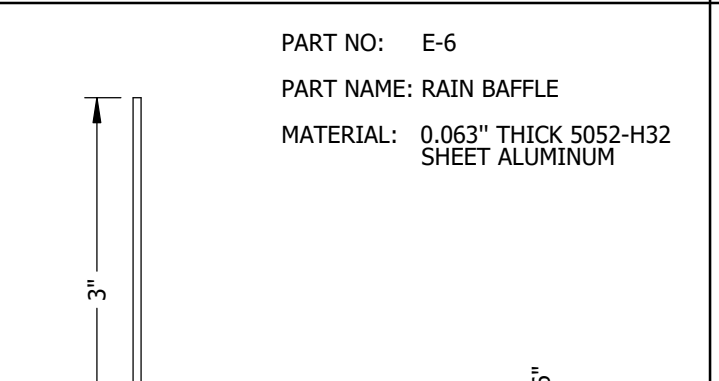
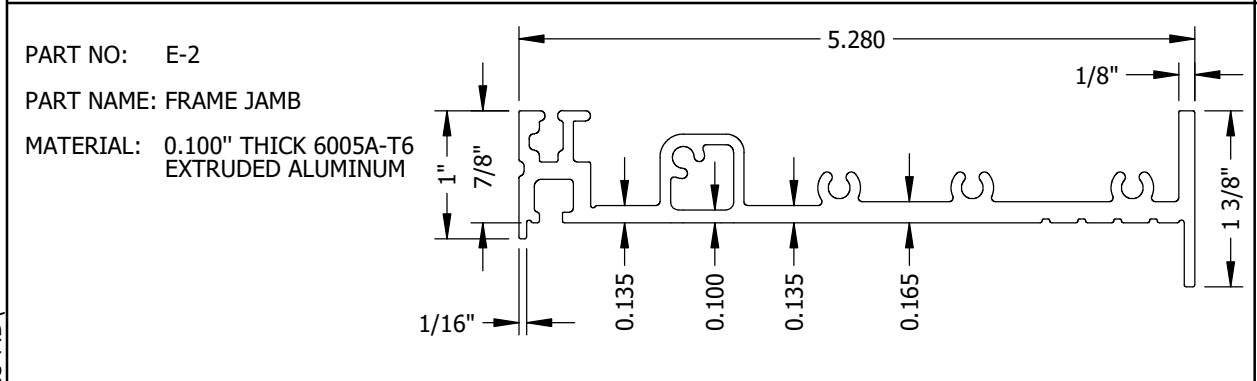
PROJ. MGR.:	DRAWN BY: JMR
DATE: 6/28/2022	CHK'D BY: NWW
SHEET: 8 of 9	SCALE: NTS
DRAWING NUMBER EDV-545-MD TDI	

REV.	DESCRIPTION	DATE	DRAWN BY
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BILL OF MATERIALS



P.E. STAMP

MISCELLANEOUS FASTENERS	
PART NO.	DESCRIPTION
F-1	#10-14 X 3/4" LONG, HWH, 410 SST, HI-LO THREAD SHARP POINT SCREW
F-2	#12-14 X 2" LONG, HWH, 410 SST, TEK SELF-DRILLING SCREW
F-3	#12-14 X 3/4" LONG, HWH, 410 SST, TEK SELF-DRILLING SCREW
F-4	1/4"-20 X 1" LONG, HWH, 18-8 SST, TEK SELF-DRILLING SCREW



REV.	DESCRIPTION	DATE	DRAWN BY
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X.XX ±0.030
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16
MAX HOLE BREAKOUT: 15% OF MATERIAL THICKNESS

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THIRD ANGLE PROJECTION

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Fort Worth, Texas 76106
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PROJ. MGR.:		DRAWN BY: JMR	
DATE: 6/28/2022	CHK'D BY: NWW	DRAWING NUMBER	
SHEET: 9 of 9	SCALE: 8" = 1'-0"	EDV-545-MD TDI	