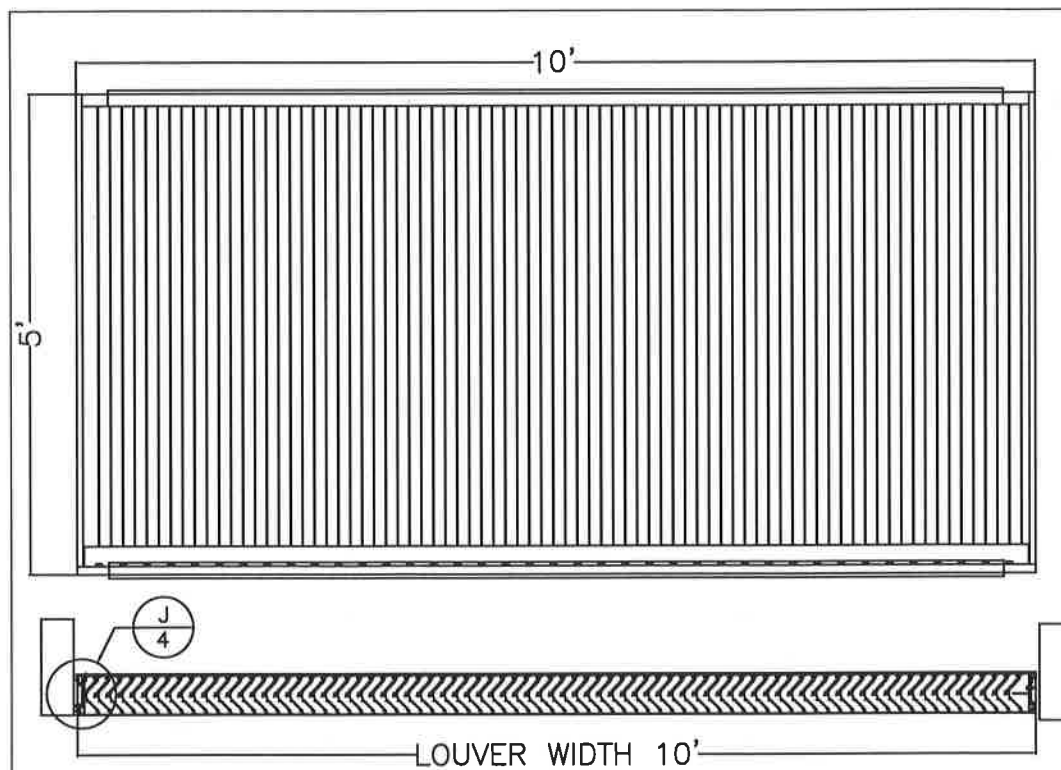


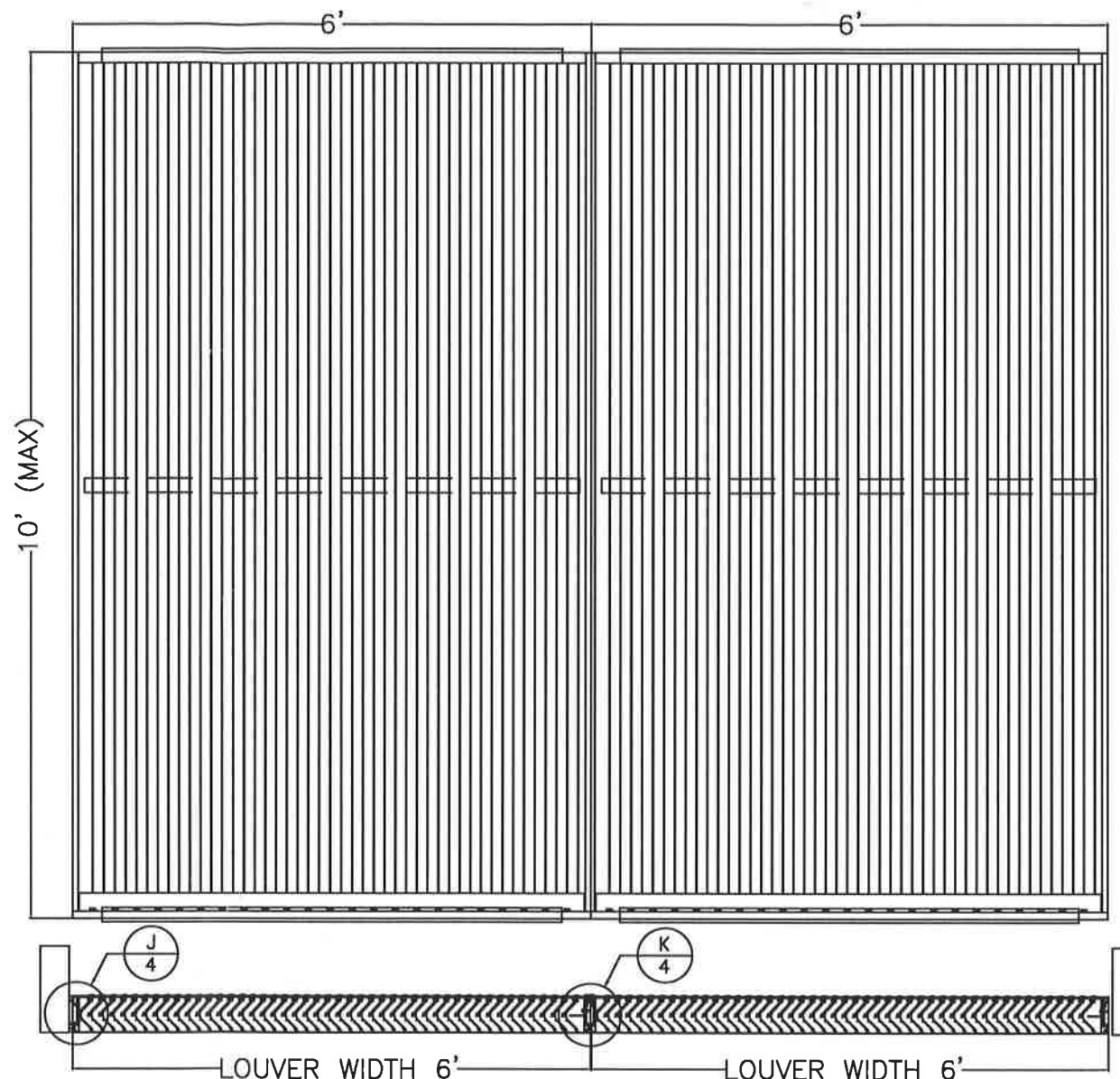
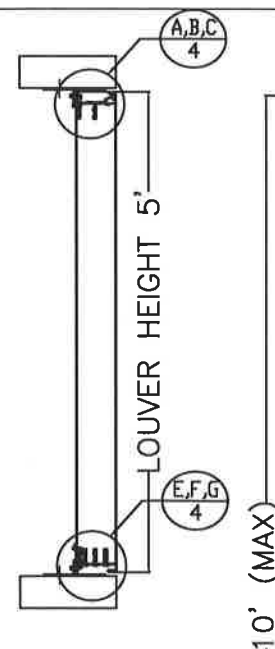


SPECIMEN 1
DESIGN WINDLOAD - 160 PSF

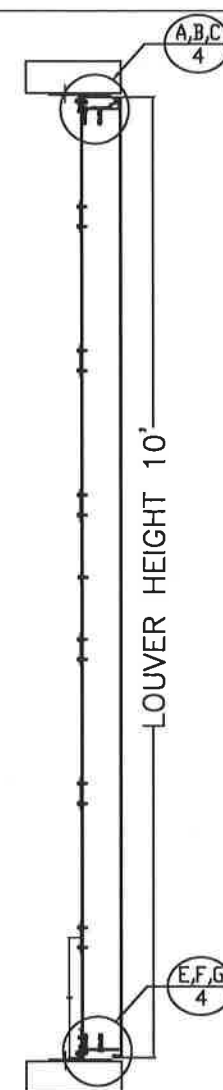
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SPECIMEN 2
DESIGN WINDLOAD - 160 PSF



- 1) It shall be the responsibility of the Structural Engineer of Record to verify the capacity of the structure to support the loads imposed by the louvers.
- 2) These louvers have been designed according to the Florida Building Code and the Aluminum Design Manual. They are tested in accordance with Dade County protocols TAS 201, TAS 202 and TAS 203.
- 3) All fasteners shall be stainless steel Series 300 except the fasteners specified in note 13 of this sheet 1.
- 4) Grout-filled CMU, 1,500 psi min. (ASTM C-90), Type N mortar.
- 5) All concrete substrate shall be a minimum of 4000 psi, cracked, normal weight.
- 6) Section widths and heights are limited as shown in elevations and details.
- 7) Each fastener used must be detailed on the drawing and verified on the NOA.
- 8) Separation of unpainted aluminum and dissimilar materials to be maintained by the installer.
- 9) This louver system has been tested, analyzed and approved for design pressures up to and including +/-160 PSF. Any louver height 10' or less is approved for windloads 160 PSF or less. For louver heights greater than 10' but less than 12', maximum design windload is limited to 90 PSF.
- 10) Stack sections horizontally to an unlimited opening width without any additional vertical framing.
- 11) Louver Construction - Head, sill and jambs are constructed of extruded aluminum. The corners are coped and butted, secured with (2) #10 x 2" hex head screws at each corner, through the sill into the jambs and through the jambs into the head. The blades are secured to the head and sill using (2) #10 x 2" hex head screws and a weld, 1/8" x 1/2" long, on one side of the blade at the head only (no welding of blades to the sill is required).
- 12) These louvers have been designed and tested in accordance with AMCA 540 Test Method for Louvers Impacted by Wind Borne Debris (Basic Protection, Missile Level D and Enhanced Protection, Missile Level E). These louvers have been designed and tested in accordance with AMCA 550 Test Method for High Velocity Wind Driven Rain Resistant Louvers. Minimum section size to be 12" x 12". Passing AMCA 550 significantly reduces rain penetrating the space behind the louvers. Per Miami-Dade D.R.E.R.: the louver may be installed in a location where the room behind the louver is NOT DESIGNED to drain water penetrating into the room and the room will house non waterproof or non water resistant equipment, components or supplies.
- 13) A horizontal blade strap at midpoint is required if section height is greater than 60" and two horizontal blade straps are required at third-points for section heights greater than 10' but less than the max section height of 12'.



JAN 23 2024

PROJECT: DC-5804

REVISION: 2 12-01-2023

TITLE: LAYOUT DRAWINGS - SPECIMENS 1 & 2

DATE: 12-15-2022

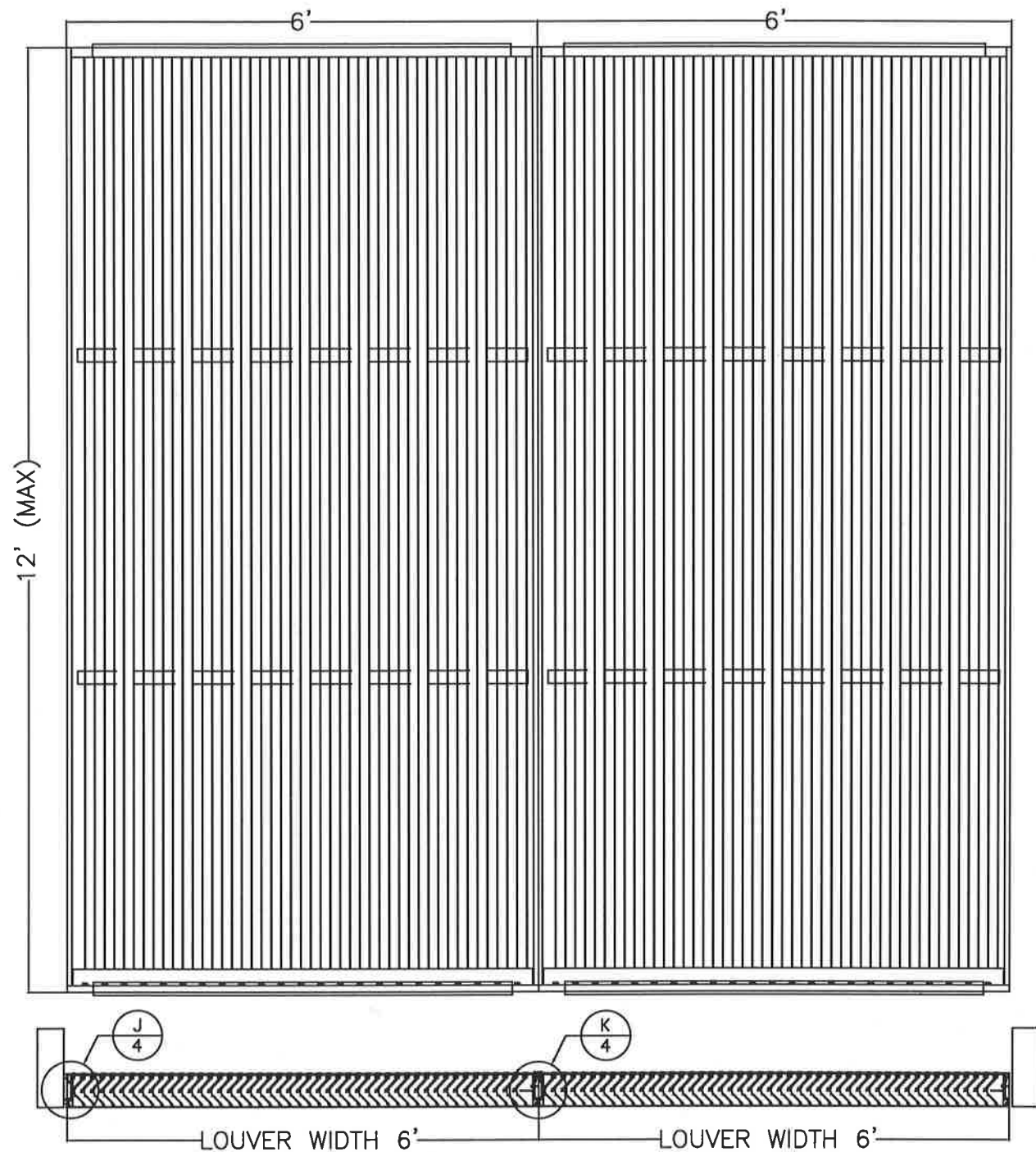
SCALE: 1" = 1'-0"

SHEET: 1 OF 6

DRW BY: R. GEIST

DRW NO : RD-1687



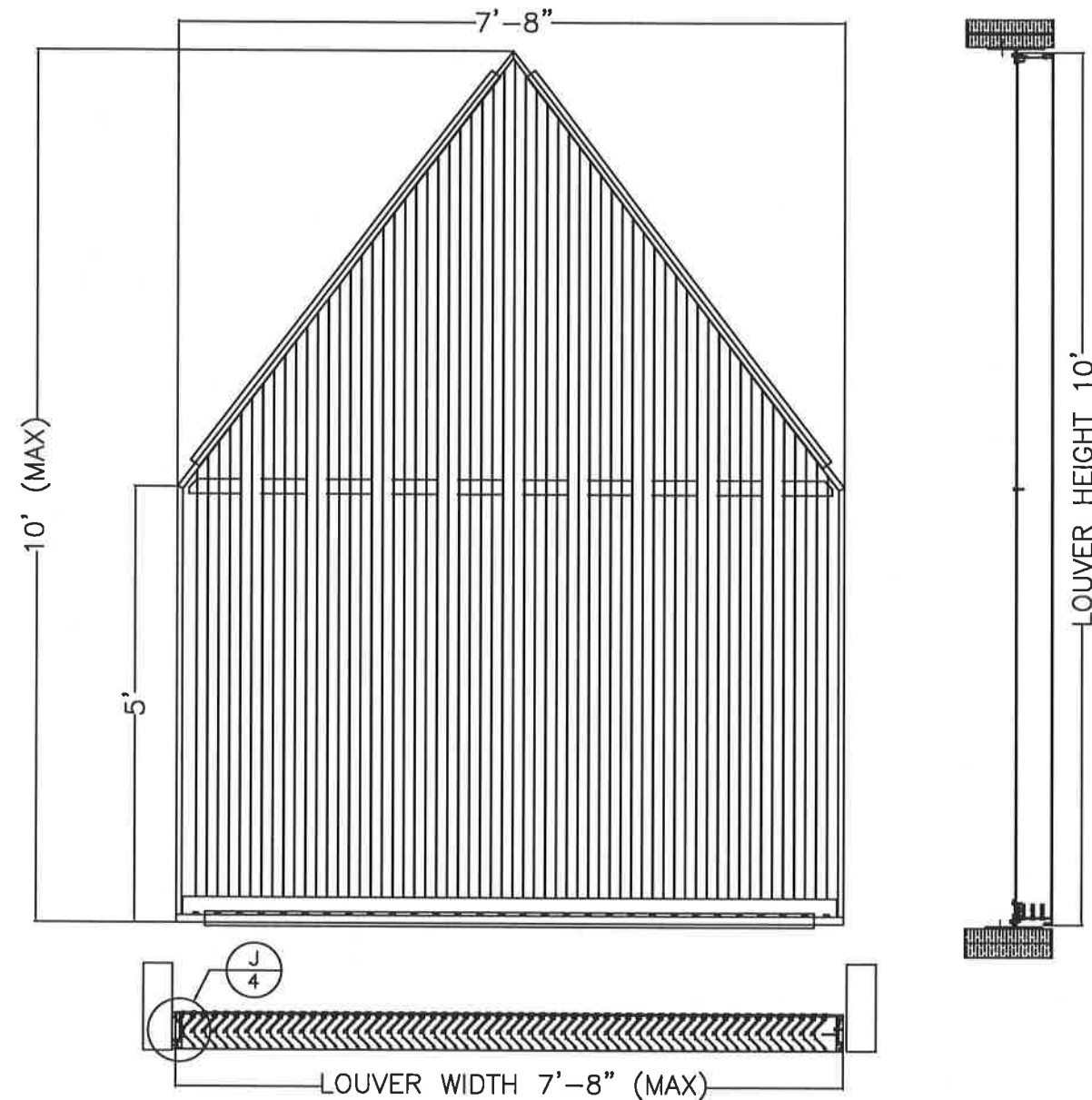


SPECIMEN 3
DESIGN WINDLOAD - 90 PSF

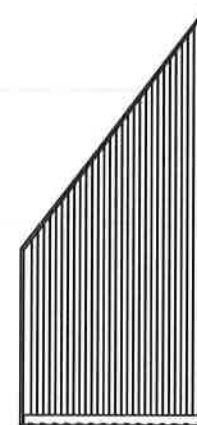
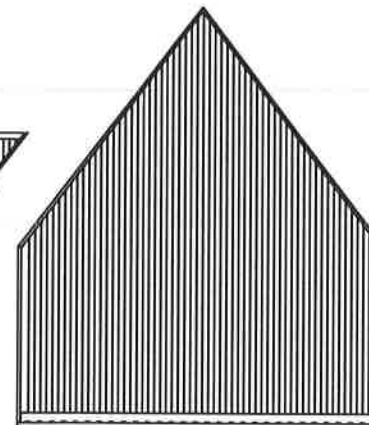
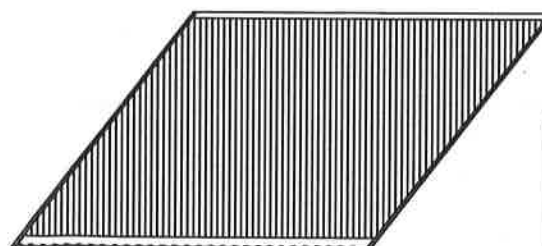
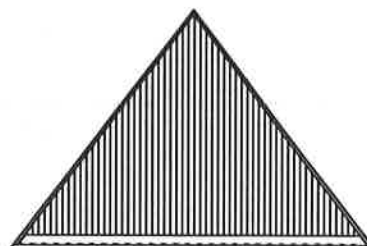
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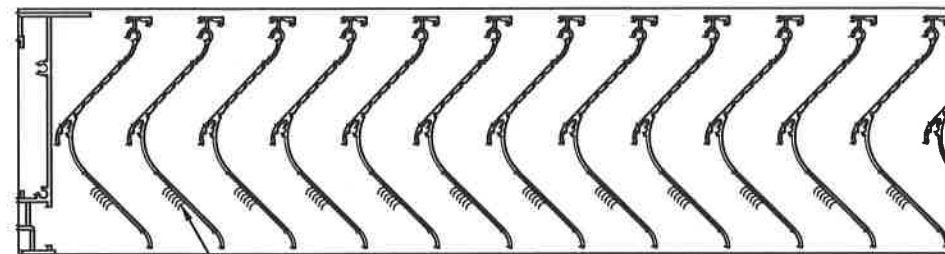
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SPECIMEN 4
DESIGN WINDLOAD - 160 PSF



JAN 23 2024



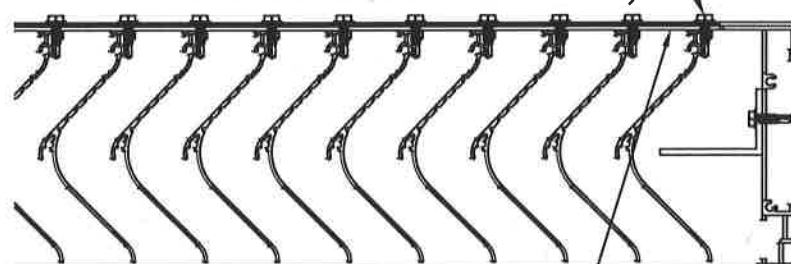


1/8" X 1/2" LONG WELD ON EACH BLADE TO FRAME AT HEAD

FRONT BLADE WELDING AT HEAD



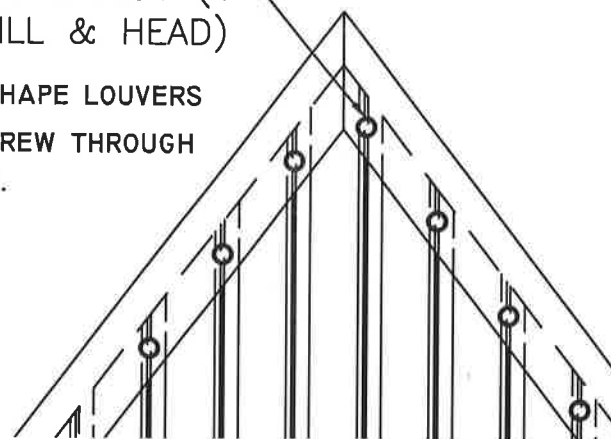
#10 X 3/4" LG H/H SELF DRILL/SELF TAPPING SCREW (1 PER BLADE AT SILL & HEAD)



1/8" x 2" ALUMINUM HEAD PLATE
REAR BLADE FASTENING AT HEAD & SILL

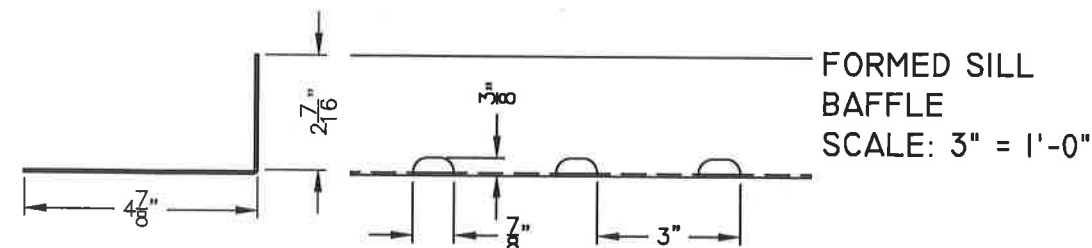
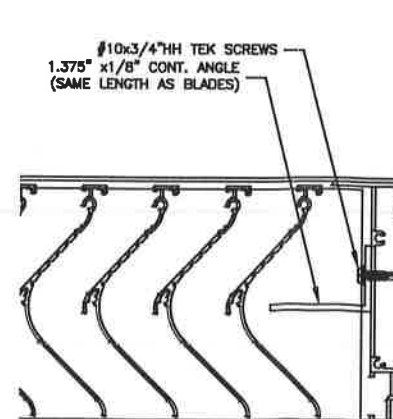
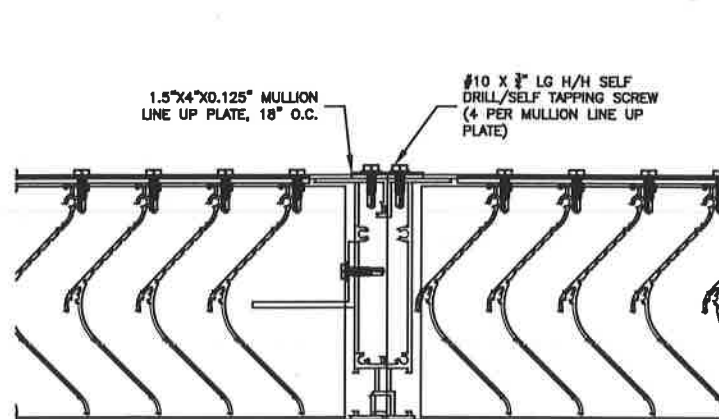
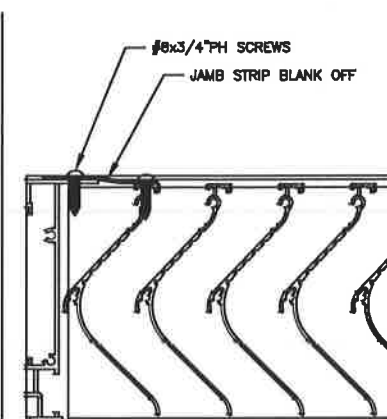
#10 X 3/4" LG H/H SELF DRILL/SELF TAPPING SCREW (1 PER BLADE AT SILL & HEAD)

REAR VIEW OF SPECIAL SHAPE LOUVERS WITH #10X3/4" LG H/H SCREW THROUGH FRAME AND INTO BLADES.

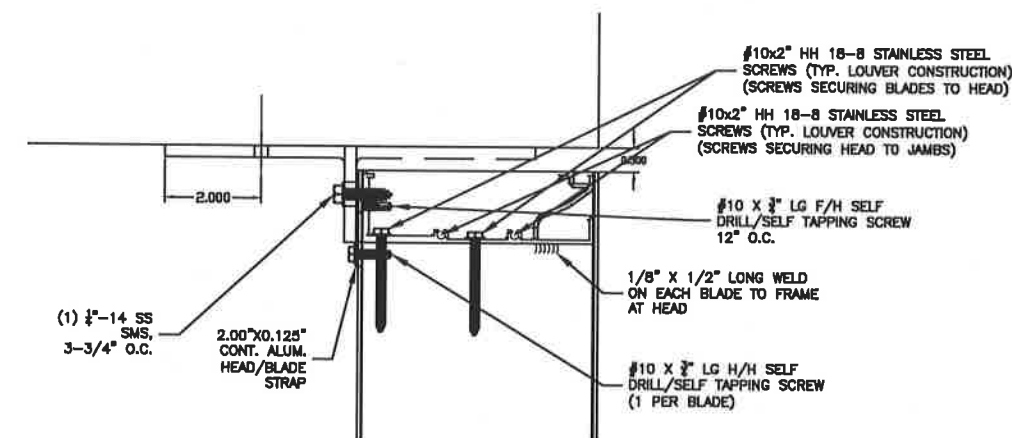


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FORMED SILL
BAFFLE
SCALE: 3" = 1'-0"



(1) 1/2"-14 SS
3-3/4" O.C.

2.00"x0.125"
CONT. ALUM.
HEAD/BLADE
STRAP

#10x2" HH 18-8 STAINLESS STEEL
SCREWS (TYP. LOUVER CONSTRUCTION)
(SCREWS SECURING BLADES TO HEAD)

#10x2" HH 18-8 STAINLESS STEEL
SCREWS (TYP. LOUVER CONSTRUCTION)
(SCREWS SECURING HEAD TO JAMBS)

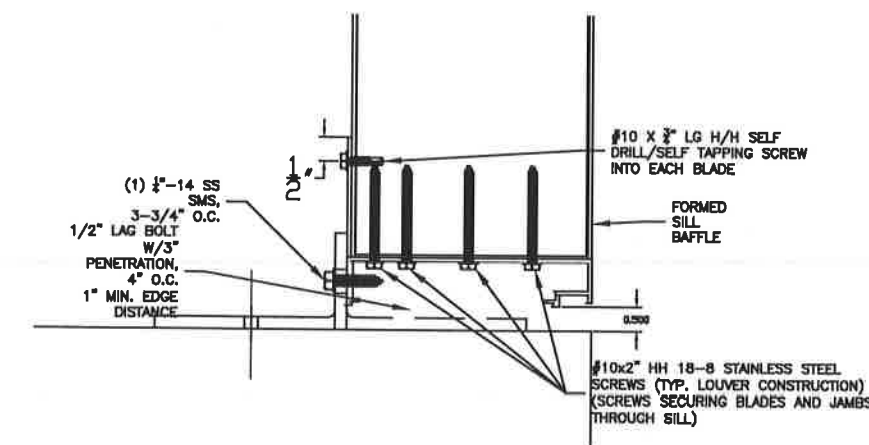
#10 X 3/4" LG F/H SELF
DRILL/SELF TAPPING SCREW
12" O.C.

1/8" X 1/2" LONG WELD
ON EACH BLADE TO FRAME
AT HEAD

#10 X 3/4" LG H/H SELF
DRILL/SELF TAPPING SCREW
(1 PER BLADE)

2.00"x0.125" CONT.
ALUM. BLADE STRAP
(HELD SHORT OF JAMBS
0.125 FROM JAMBS)

#10 X 1" LG SELF
DRILL/SELF TAPPING
SCREW (1 PER BLADE)



(1) 1/2"-14 SS
3-3/4" O.C.

1/2" LAG BOLT
W/3"
PENETRATION,
4" O.C.

1" MIN. EDGE
DISTANCE

#10 X 3/4" LG H/H SELF
DRILL/SELF TAPPING SCREW
INTO EACH BLADE

FORMED
SILL
BAFFLE

#10x2" HH 18-8 STAINLESS STEEL
SCREWS (TYP. LOUVER CONSTRUCTION)
(SCREWS SECURING BLADES AND JAMBS
THROUGH SILL)

REVISION: 2	12-01-2023
DATE: 12-15-2022	
SHEET: 3 OF 6	
DRW NO : RD-1687	
PROJECT: DC-5804	
TITLE: LAYOUT DRAWINGS - ASSEMBLY DETAILS	
SCALE: 3" = 1'-0"	
DRW BY: R. GEIST	

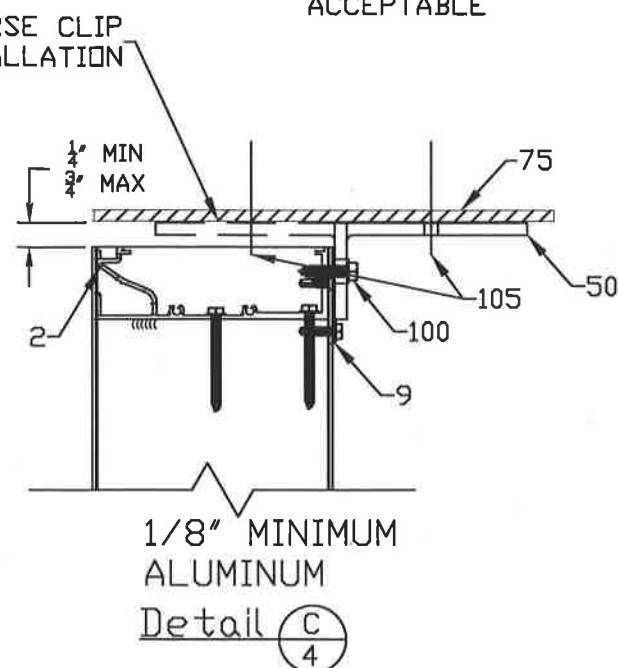
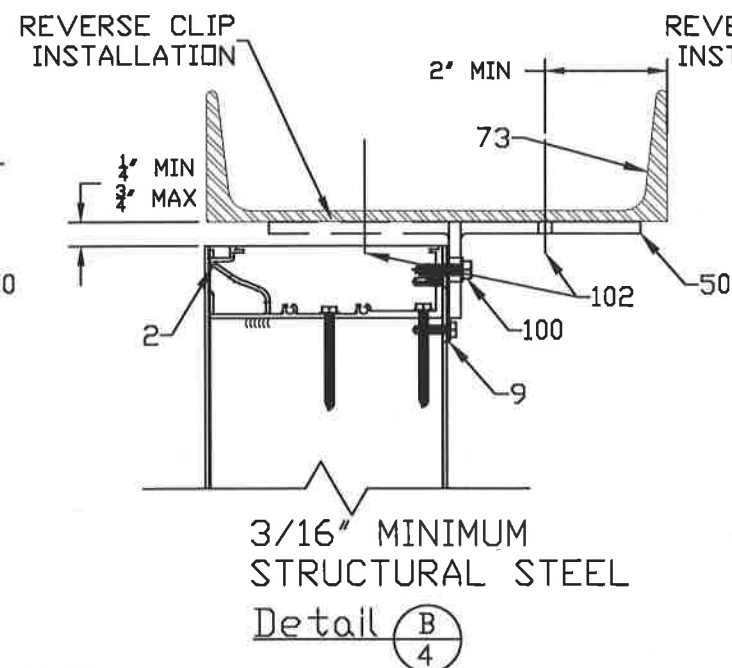
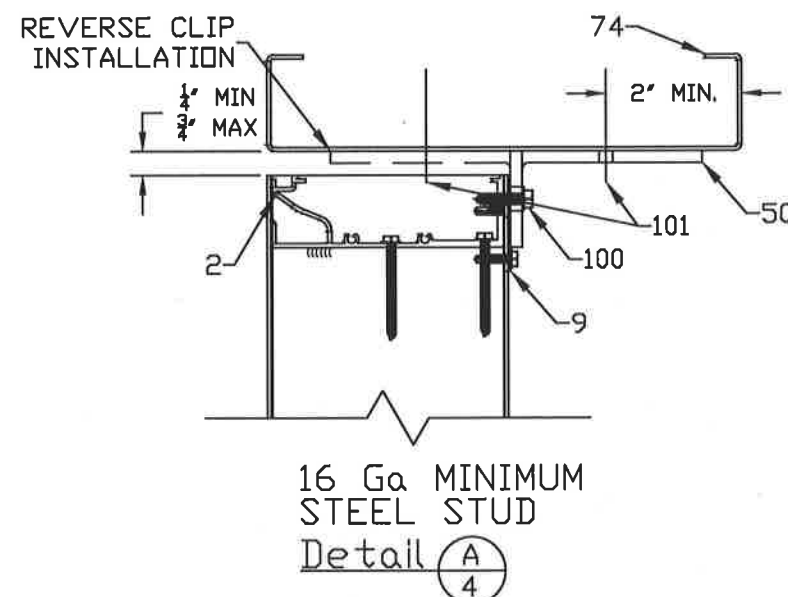
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ALL SUBSTRATES SHOWN BELOW CAN
BE USED FOR HEAD AND/OR SILL
CONDCTIONS.

ALL STEEL SHAPES
ACCEPTABLE

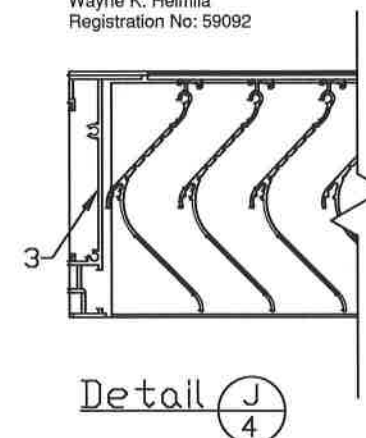
ALL ALUMINUM
SHAPES
ACCEPTABLE



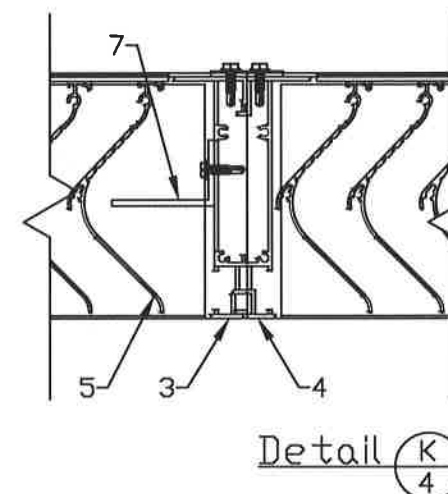
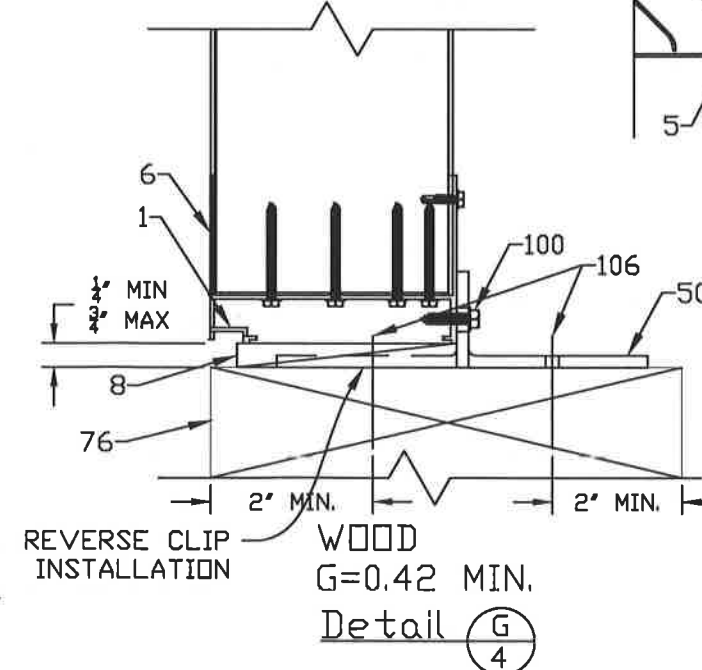
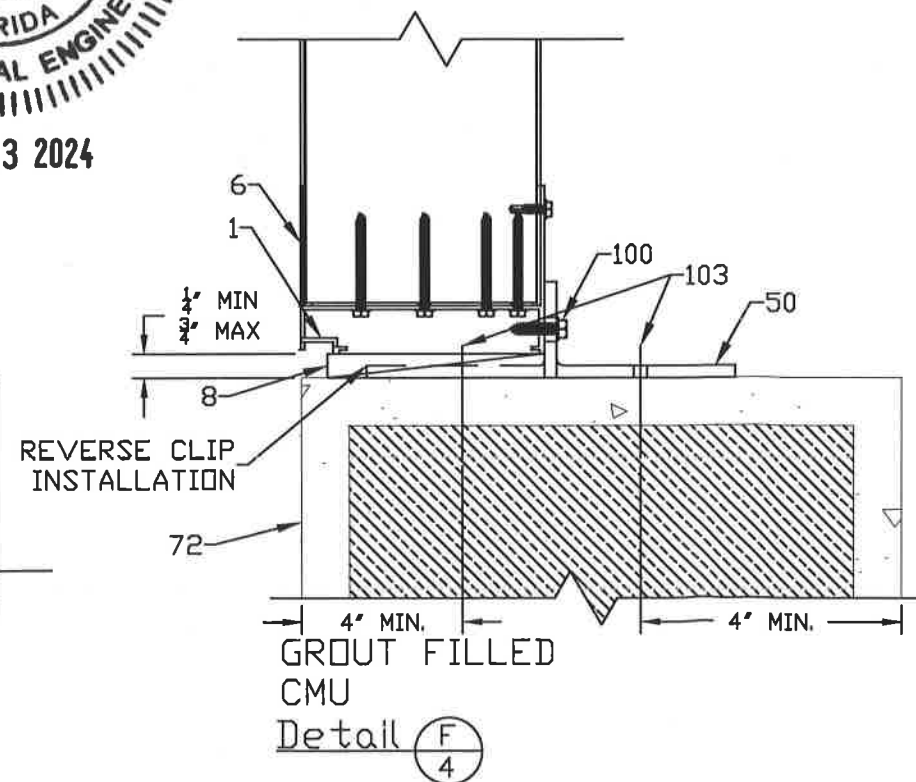
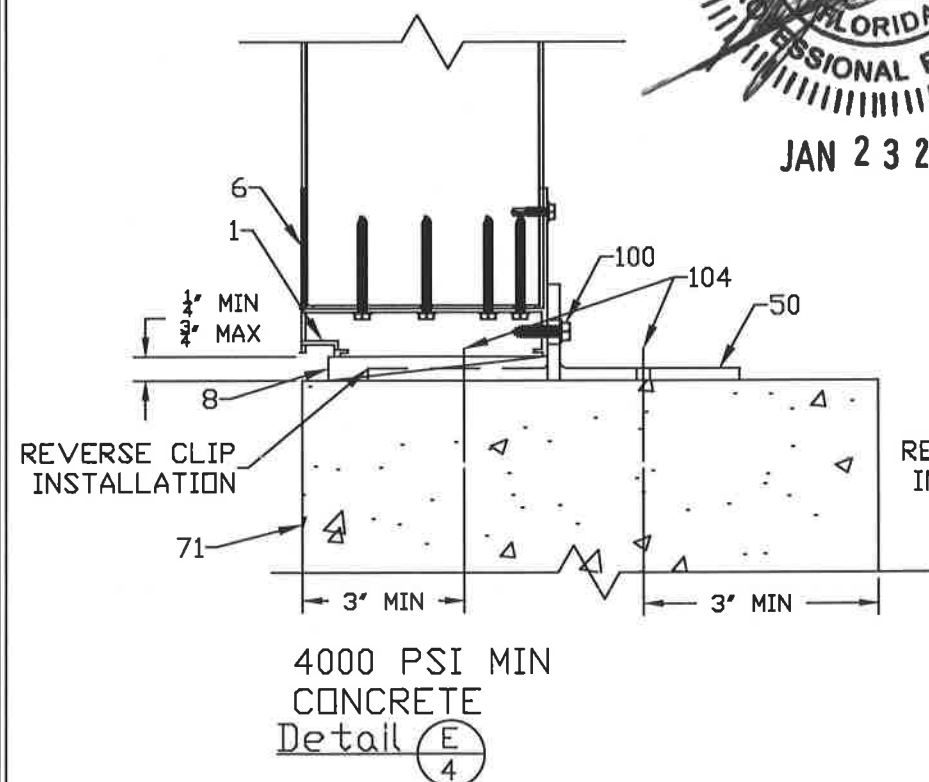
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REVISION: 2 12-01-2023
DATE: 12-15-2022
SHEET: 4 OF 6
DRW NO : RD-1687

PROJECT: DC-5804

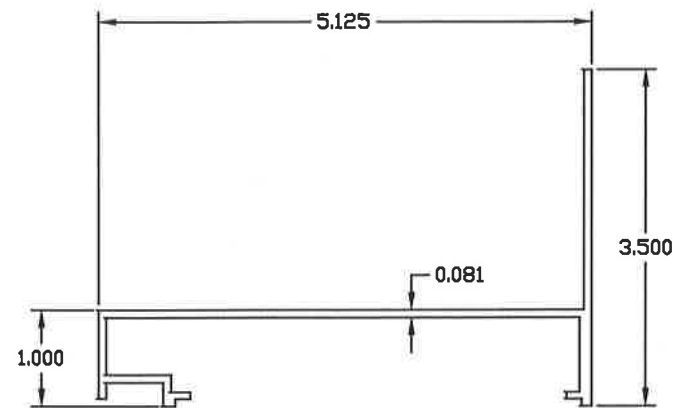
TITLE: LAYOUT DRAWINGS - MOUNTING DETAILS

SCALE: 3" = 1'-0"

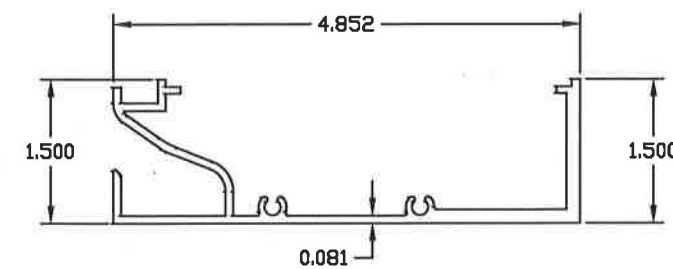
DRW BY: R. GEIST

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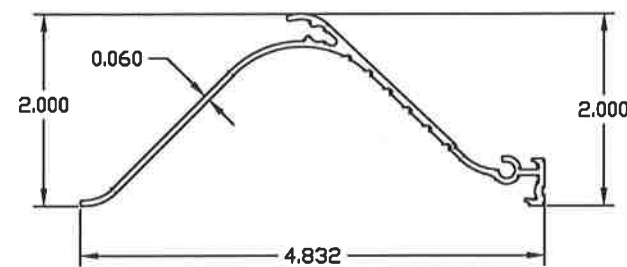




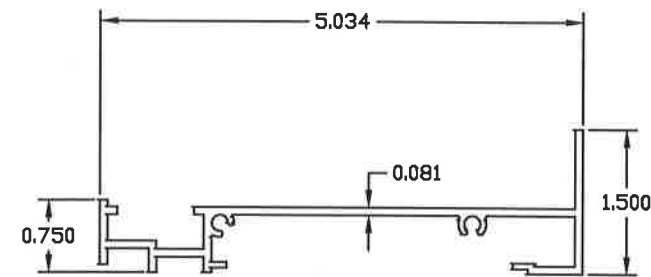
1 - Sill



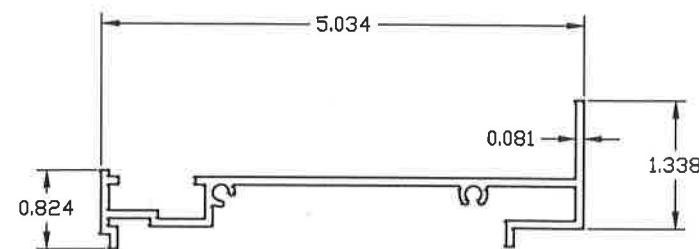
2 - Head



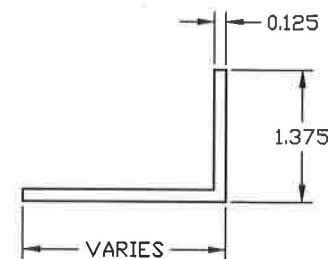
5 - Blade



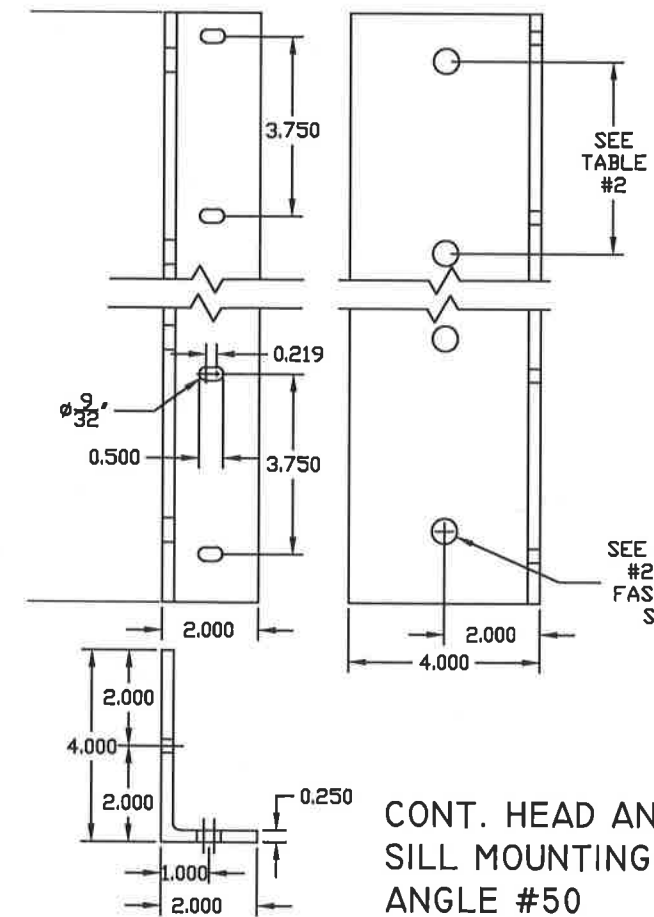
3 - Jamb/Mullion half



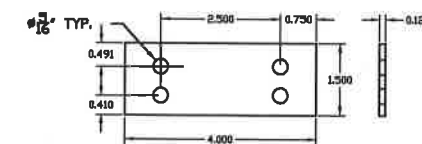
4 - Mullion half



7 - Jamb Closure Angle

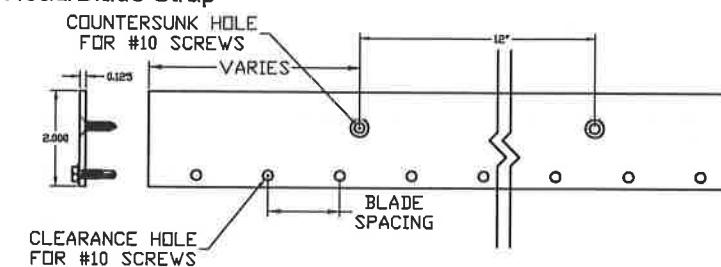


CONT. HEAD AND
SILL MOUNTING
ANGLE #50

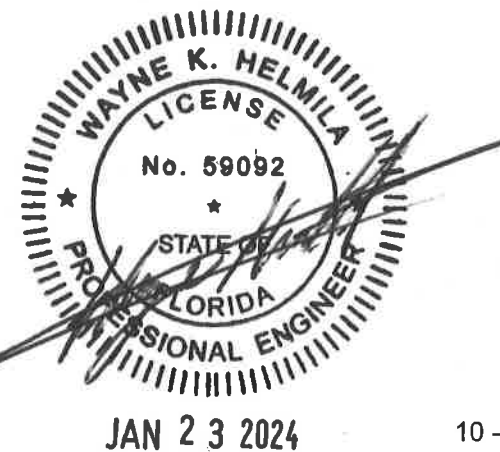


10 - Mullion Line up Plate

9 - Head/Blade Strap



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PROJECT: DC-5804

TITLE: LAYOUT DRAWINGS - PARTS DRAWINGS

SCALE: 3" = 1'-0"

DRW BY: R. GEIST

REVISION: 2 12-01-2023

DATE: 12-15-2022

SHEET: 5 OF 6

DRW NO : RD-1687

TABLE 1 - PARTS LIST		
ITEM #	PART	DESCRIPTION
1	SILL	6063-T6 ALUMINUM 0.080" THK
2	HEAD	6063-T6 ALUMINUM 0.080" THK
3	JAMB	6063-T6 ALUMINUM 0.080" THK
4	MULLION	6063-T6 ALUMINUM 0.080" THK
5	BLADE	6063-T6 ALUMINUM 0.060" THK
6	SILL BAFFLE	FORMED ALUMINUM 0.080" THK
7	JAMB CLOSURE ANGLE	6063-T6 ALUMINUM ANGLE 0.125" THK.
8	SHIM (SILL ONLY)	NON-COMPRESSIBLE MATERIAL, BY OTHERS
9	HEAD/BLADE PLATE	6063-T6 ALUMINUM 0.125" THK
10	MULLION LINE UP PLATE	6063-T6 ALUMINUM 0.125" THK
50	HEAD/SILL MOUNTING ANGLE	6061-T6 2"x4"x1/4" CONT. ALUM. ANGLE
71	CONCRETE	4000 PSI CONCRETE, CRACKED, NORMAL WEIGHT
72	CMU	GROUT FILLED MASONRY UNIT (1500 PSI, ASTM C90, TYPE II WITH TYPE N MORTAR)
73	STRUCTURAL STEEL	3/16"THK MIN. ANY SHAPE *See Notes below
74	STEEL STUD	16 GA MIN. GALVANIZED STRUCTURAL STEEL STUD. Fy=50Ksi
75	ALUMINUM	1/8" THK. MIN. (6063-T5)
76	WOOD	SG=0.42 MIN. SPRUCE PINE FIR, 4" MIN. THICKNESS

STEEL ANCHOR PLATES, CLIP ANGLES, REINFORCEMENT CHANNELS AND BARS TO BE MINIMUM ASTM A-36 STEEL, DESIGNED BY OTHERS.

STEEL TUBES TO BE MINIMUM ASTM A-500, GRADE B, Fy = 46 KSI., DESIGNED BY OTHERS.

TABLE 2 - Building Attachment Fastener Schedule						
Part #	Fastener Description	Substrate	Max Spacing	Min. Edge Dist.	Min. Embed.	End Dist.
100	1/4"-14 Dia. S.S. 300 Series Screws	Aluminum Head/Sill Frame Members	3-3/4"	1/2"	NA	NA
101	1/4"-14 Dia. S.S. 300 Series Screws	16 Ga Cold Formed Steel Stud	3-3/4"	2"	NA	NA
102	1/4"-20 Dia. ELDD BI-FLEX S.S. 300 Series Screws	3/16" Structural Steel (Any shape)	6"	2"	NA	NA
103	1/4"-14 Dia. S.S. 300 Series Aggre-Gator Masonry Screw Anchor	1500 psi min. Grout Filled CMU, Type N Mortar	2-1/4"	4"	2"	3"
104	3/8" Dia. Hilti Kwik HUS-EZ S.S. 300 Series Anchor	4000 psi Cracked Concrete (min. 6" slab thickness)	9"	3"	3-1/4"	4-1/2"
105	1/4"-14 Dia. S.S. 300 Series Screws	Aluminum (1/8" min thickness) (Any Shape)	3"	2"	NA	NA
106	1/2"-14 Dia. S.S. 300 Series Lag Screws	Wood	4"	2"	3"	2"

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REVISION: 212-01-2023

DATE: 12-15-2022

SHEET: 6 OF 6

DRW NO : RD-1687

PROJECT: DC-5804

TITLE: LAYOUT DRAWINGS - TABLES

SCALE: 3" = 1'-0"

DRW BY: R. GEIST

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