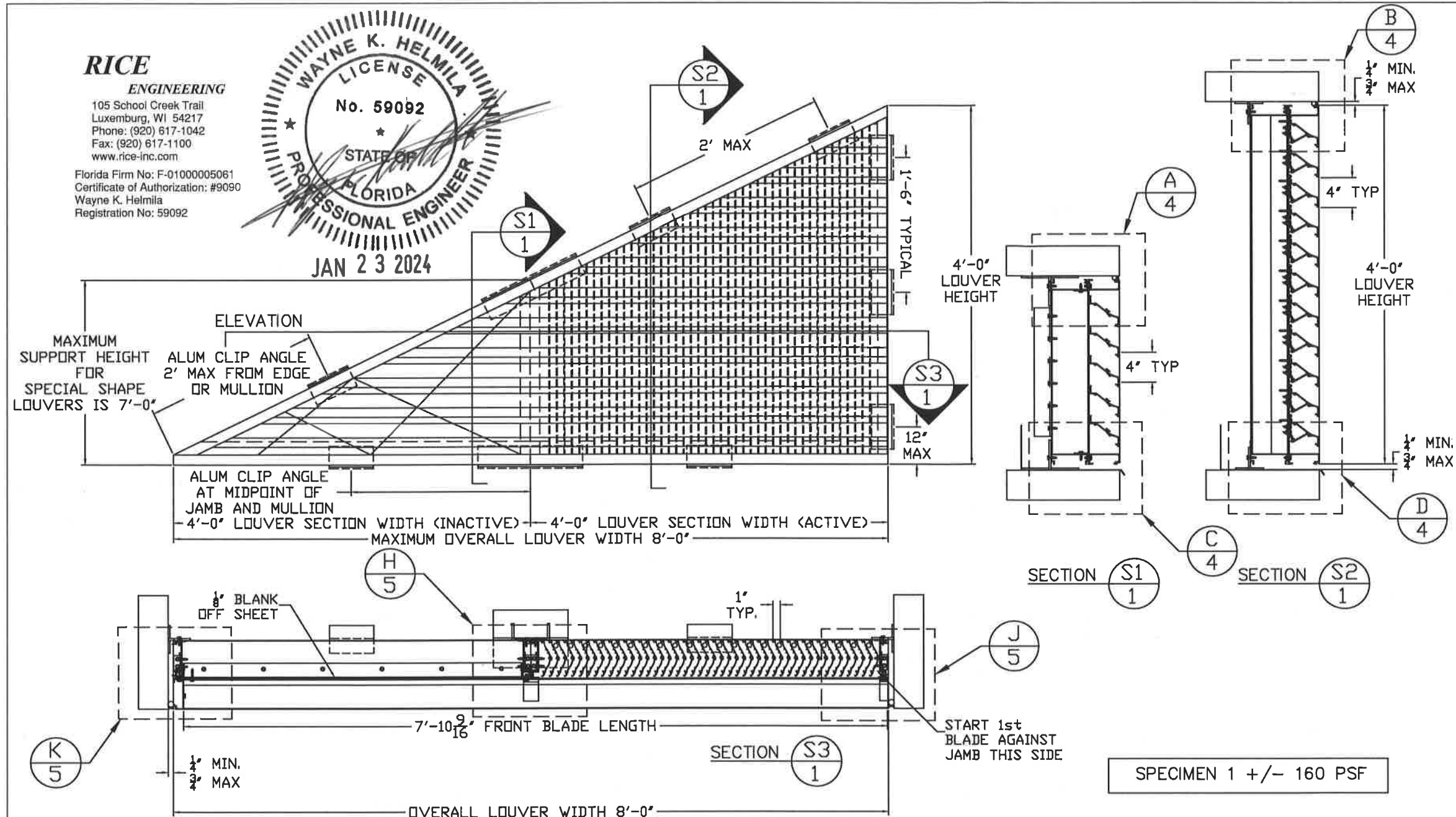


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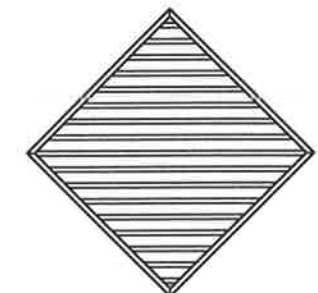
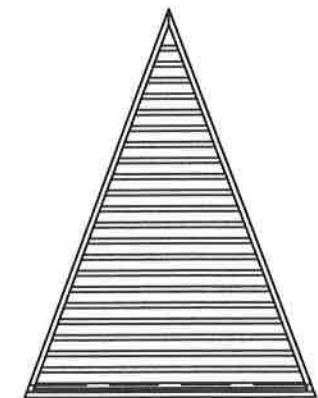
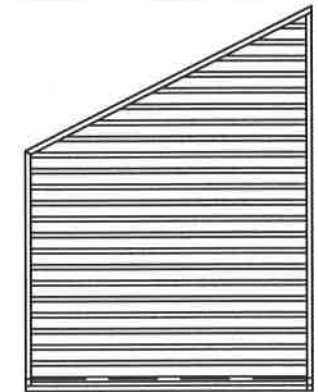
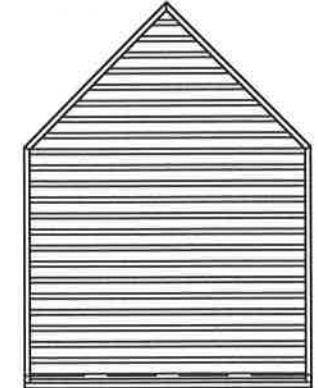
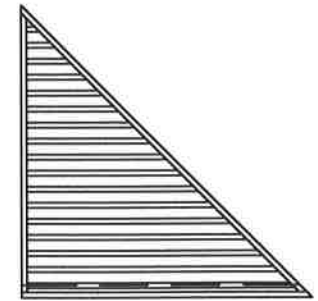
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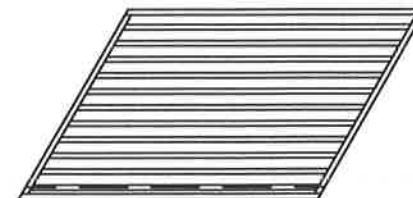


EXAMPLES OF SPECIAL SHAPES AVAILABLE
(NO ROUND OR CIRCULAR FRAMES PERMITTED.)



- 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 Series 300, condition CW Fy = 65 ksi, Fu = 110 ksi minimum, except the fasteners specified in note 12 of this sheet 1 as "Head, sill and jambs are constructed of extruded aluminum. The corners are coped and butted, secured with (2) #8 x 1-1/2" screws at each corner".
- 4) All block grout substrate shall be designed by others (2,000 PSI, ASTM C90, Type II with min. 2000 PSI Grout).
- 5) Section widths and heights are limited as shown in elevations and details.
- 6) Each fastener used must be detailed on the drawing and verified on the NOA.
- 7) Separation of unpainted aluminum and dissimilar materials per Aluminum Design Manual to be maintained by the installer.
- 8) This louver system has been tested, analyzed and approved for design pressures up to and including +/-160 PSF and +/- 120 PSF as noted in this drawing package.
- 9) Stack sections horizontally to an unlimited opening width with rear mullions at no more than 3' or 4' o.c. depending on heights/windload.
- 10) Louver Construction - Head, sill and jambs are constructed of extruded aluminum. The corners are coped and butted, secured with (2) #8 x 1 1/2" screws at each corner, through the sill into the jambs and through the head into the jambs. The jambs are also secured to the head and sill with a 1"x1 1/2"x1/2"x2"LG alum. angle with (4)1/4-14x1"LG SS HH TEK Screws. The rear blades are secured to the head and sill using (2) #8 x 1 1/2" hex head screws. Front blades are secured using a blade brace, and then a #12x2"LG SS HH TEK Screw (field installed) through the top of the blade at each blade end. For special shape louvers, louvers are supplied with front blades shop attached and welded.
- 11) 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 16" x 16". AMCA 550 only applies to square/rectangular louvers. Silicone sealant is required to seal louvers into opening based on testing in accordance with AMCA 550. Per the testing to AMCA 550, a sill pan is required on all louvers and to be a minimum of 6" tall. 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.
- 12) A horizontal rod and tube spacer is used on the rear blades if the section height is greater than 96".
- 13) For louver areas requiring intake or exhaust airflow (active), both front and rear blades must be used. For all other areas where no airflow is required (inactive) a fully blanked off louver section can be supplied using the 1/8" aluminum blank off sheet with formed sides.

SPECIMEN 1 +/- 160 PSF



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PROJECT: DC-9614 SUBMITTAL DRAWINGS

TITLE: SPECIMEN 1 AND AVAILABLE SPECIAL SHAPES

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

DRW BY: R. GEIST

REVISION: 5 01-23-24

DATE: 11-20-15

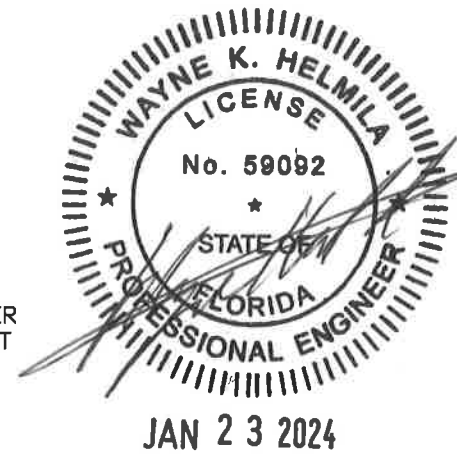
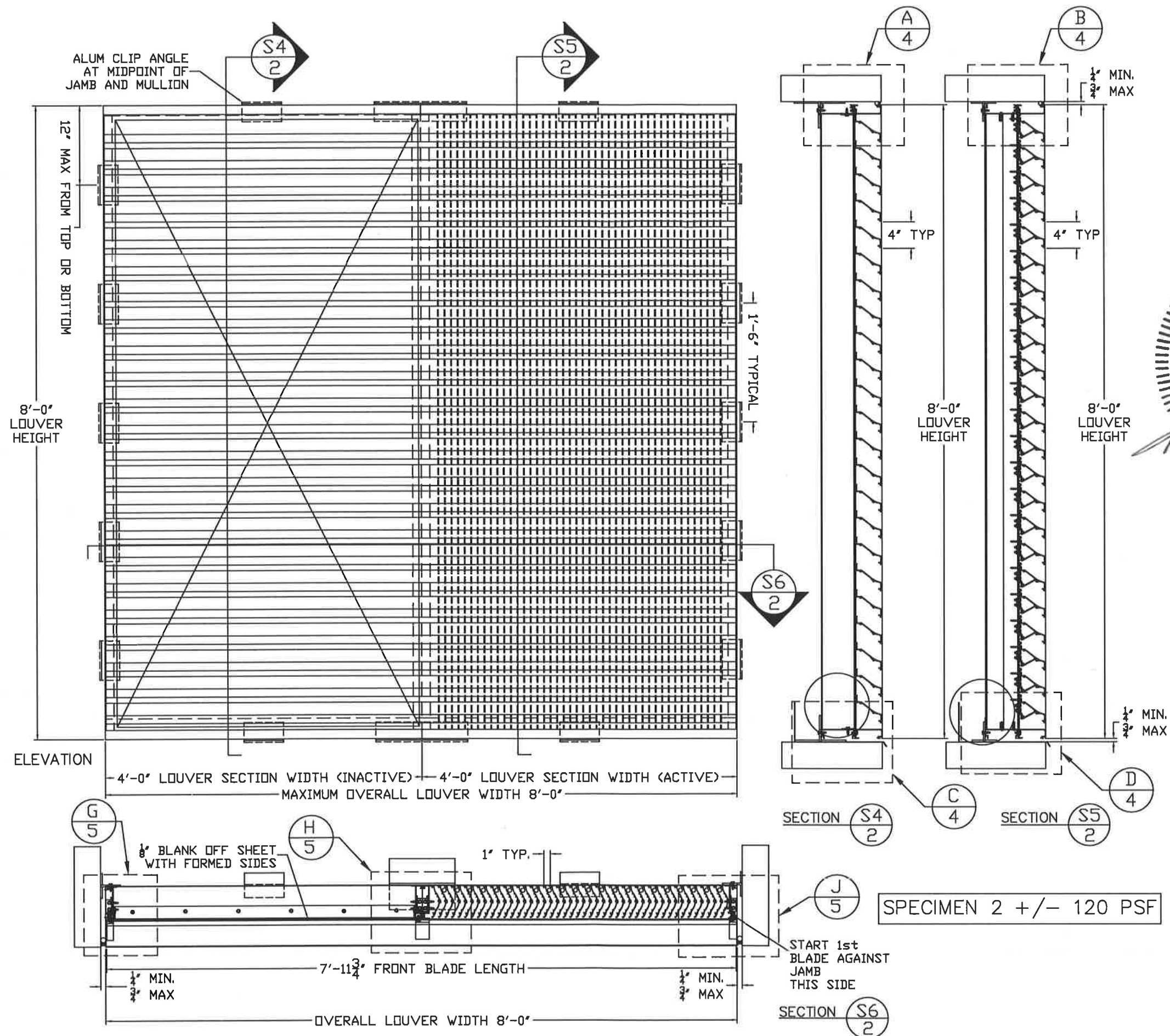
SHEET: 1 OF 13

DRW NO : RD-1457

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REVISION: 5	01-23-24
PROJECT: DC-9614 SUBMITTAL DRAWINGS	
TITLE: SPECIMEN 2	DATE: 11-20-15
SCALE: 3/4" = 1'-0"	SHEET: 2 OF 13
DRW BY: R. GEIST	DRW NO : RD-1457

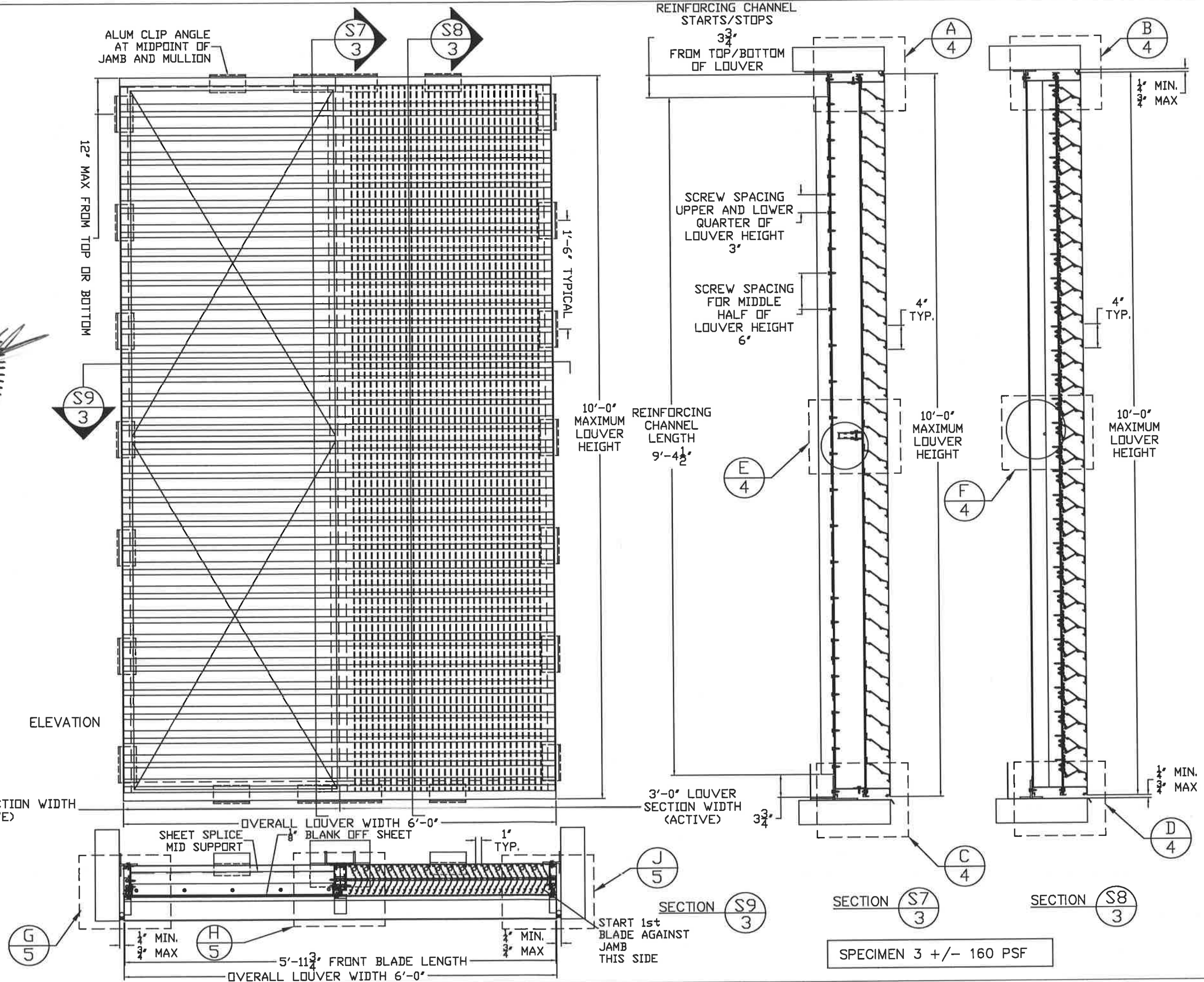
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Registration No: 59092



PROJECT: DC-9614 SUBMITTAL DRAWINGS

TITLE: SPECIMEN 3

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

DRW BY: R. GEIST

REVISION: 5 01-23-24

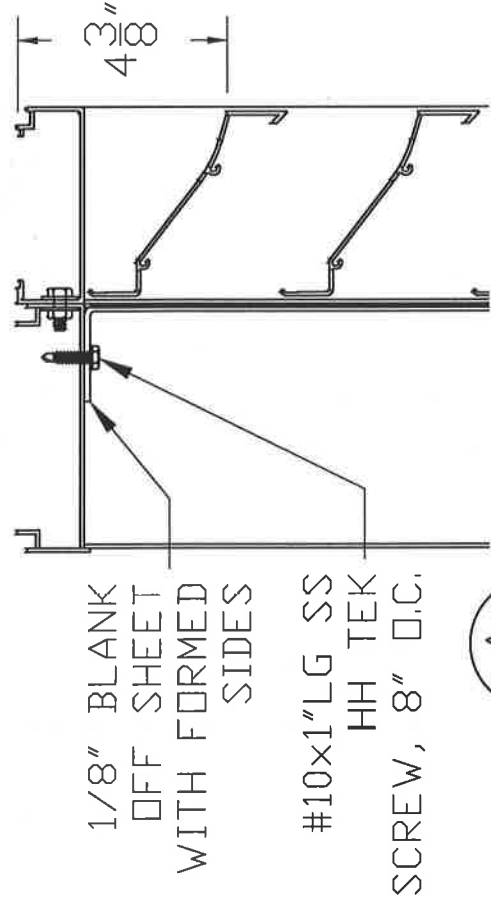
DATE: 11-20-15

SHEET: 3 OF 13

DRW NO.: RD-1457

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DETAIL A
4

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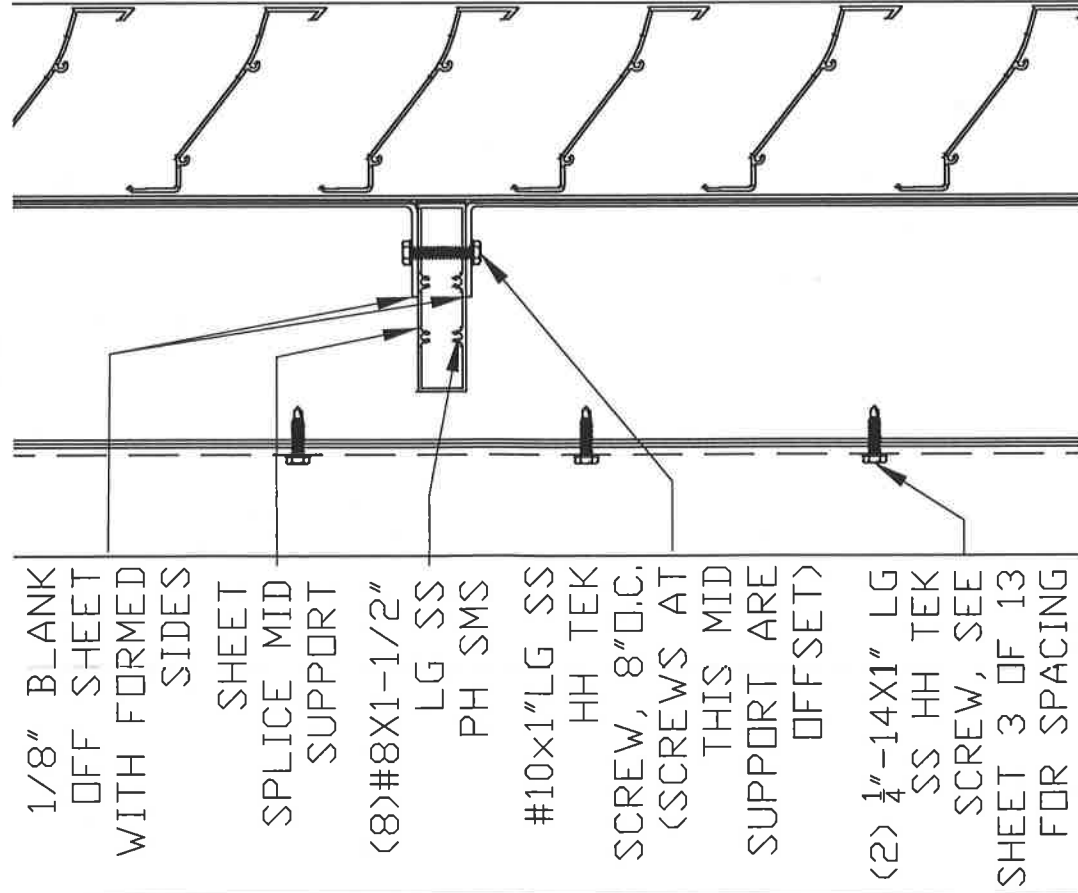
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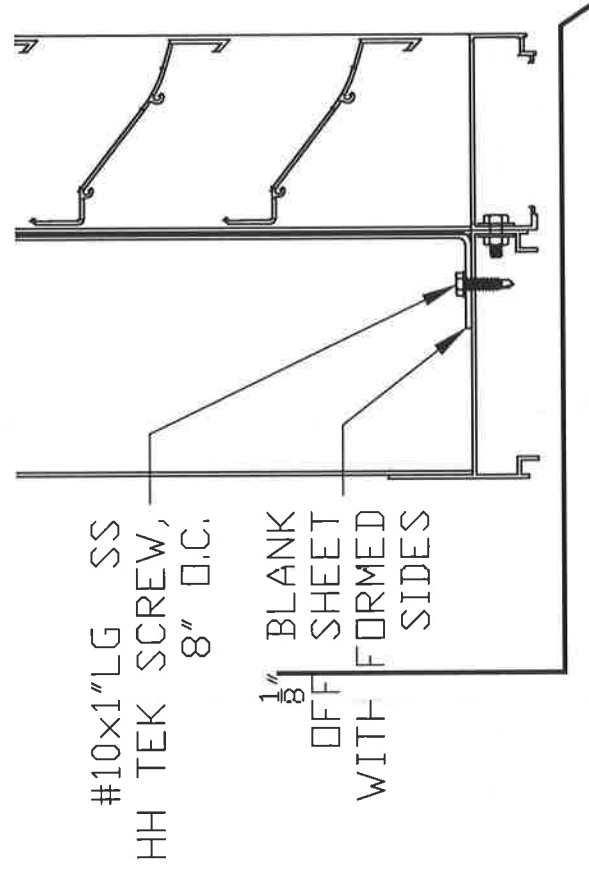
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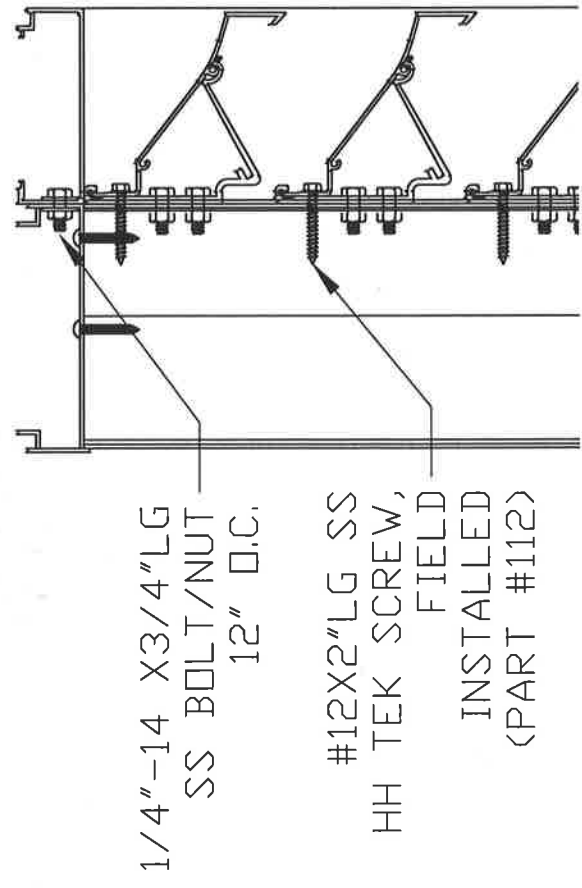
JAN 23 2024



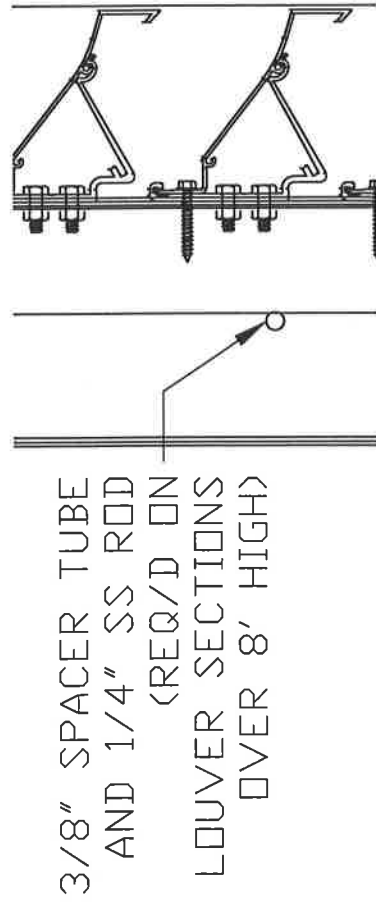
DETAIL E
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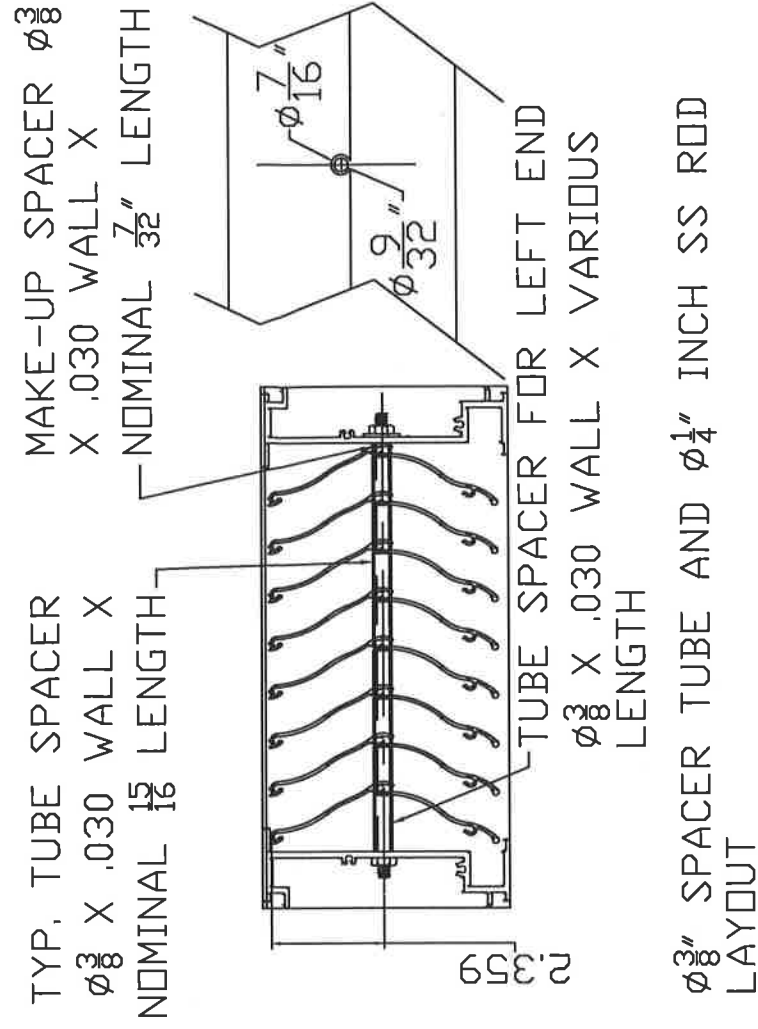
DETAIL C
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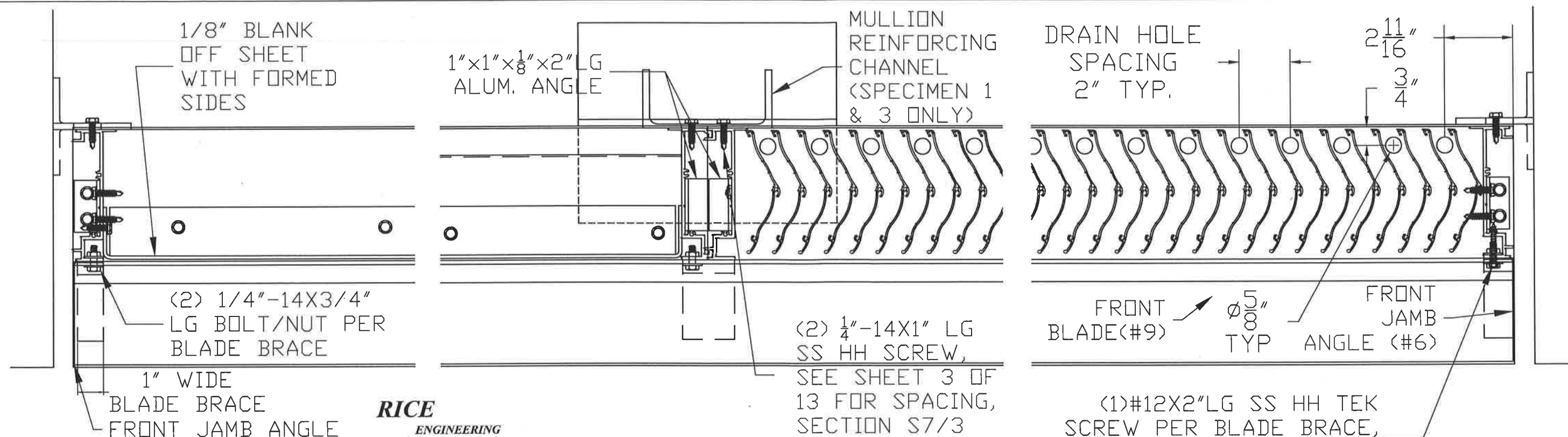
DETAIL B
4



DETAIL F
4



DETAIL D
4



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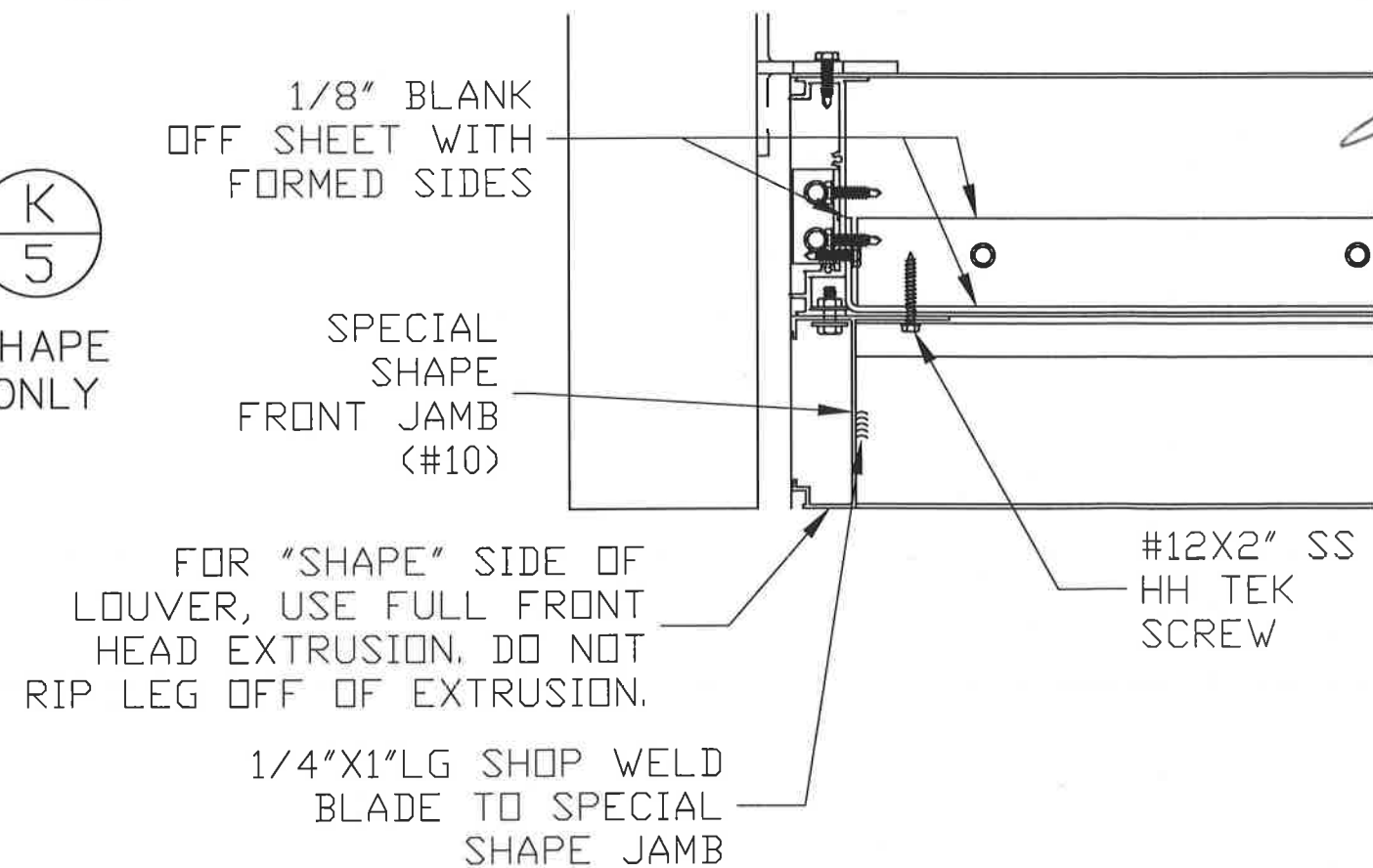
DETAIL G
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DETAIL H
5

DETAIL J
5

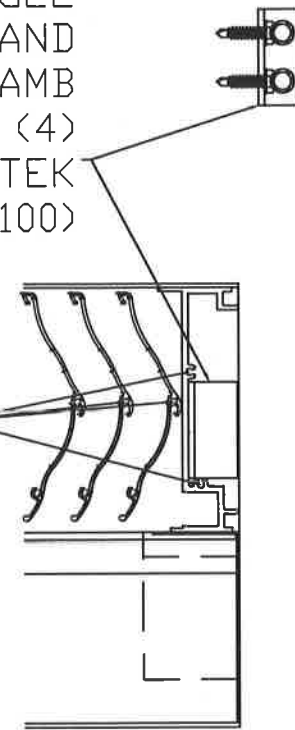
DETAIL K
5

SPECIAL SHAPE
LOUVERS ONLY



1" X 1-1/2" X 1/8" X 2"
LG ALUM ANGLE
ATTACHED TO HEAD AND
JAMB, AND SILL AND JAMB
(SECURED WITH (4)
1/4"-14X1"LG SS HH TEK
SCREW, ITEM #100)

#8 X 1-1/2" LG SS
PH SMS
FOR ASSEMBLING
JAMBS AND BLADES
TO HEAD AND SILL
(REAR COMPONENTS
ONLY)



PROJECT: DC-9614 SUBMITTAL DRAWINGS	REVISION: 5	01-23-24
TITLE: LOUVER ASSEMBLY DETAILS PART B	DATE: 11-20-15	
SCALE: 3" = 1'-0"	SHEET: 5 OF 13	
DRW BY: R. GEIST	DRW NO: RD-1457	



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JAN 23 2024

1	REAR HEAD	6063-T6 ALUMINUM 0.080 THK
2	REAR SILL	6063-T6 ALUMINUM 0.080 THK
3	REAR JAMB/MULLION HALF	6063-T6 ALUMINUM 0.125 THK
4	REAR MULLION HALF	6063-T6 ALUMINUM 0.125 THK
5	FRONT HEAD AND SILL	6063-T6 ALUMINUM 0.080 THK
6	FRONT JAMB ANGLE	1-3/8"x4.077"x0.080" FORMED ALUMINUM ANGLE
7	FRONT BLADE BRACE	6063-T6 ALUMINUM - 1" WIDE AT JAMBS, 2" WIDE AT MULLIONS
8	REAR BLADE	6063-T6 ALUMINUM 0.060 THK
9	FRONT BLADE	6063-T6 ALUMINUM 0.068 THK
10	SPECIAL SHAPE FRONT JAMB	6063-T6 ALUMINUM 0.080 THK
11	MULLION REINFORCING CHANNEL	5" X 2.212# ALUMINUM ASSOCIATION CHANNEL 6061-T6
12	SHEET SPLICE MID SUPPORT	6063-T6 ALUMINUM EXTRUSION TUBE 0.068 MIN. THICKNESS
13	SHEET BLANK OFF	1/8" ALUMINUM SHEET BLANK OFF WITH 2" FORMED SIDES, 1/8" MINIMUM THICKNESS
14	ALUMINUM SILL PAN	0.050" ALUMINUM SILL PAN, 6" TALL MINIMUM
50	JAMB AND MID SPAN ALUM. CLIP ANGLE	3"x2"x1/4"x6" LG 6061-T6 ALUMINUM (WOOD SUBSTRATE)
51	ALUM. JAMB CLIP ANGLE	3"x2"x1/4"x4" LG 6061-T6 ALUMINUM (STRUCTURAL STEEL, CONCRETE AND CMU SUBSTRATES)
52	ALUM. JAMB SHELF ANGLE	6"x4"x3/8"x4-1/2" LG 6061-T6 ALUMINUM (CONCRETE SUBSTRATE)
53	ALUM. JAMB SHELF ANGLE	6"x4"x3/8"x10" LG 6061-T6 ALUMINUM (CMU SUBSTRATE)
54	ALUM. JAMB CLIP ANGLE	3"x2"x1/4"x4" LG 6061-T6 ALUMINUM (STEEL STUD AND ALUMINUM SUBSTRATES)
55	ALUM CLIP ANGLE (MID-SPAN JAMB TO MULLION)	3"x2"x1/4"x6" LG 6061-T6 ALUMINUM (STEEL STUD SUBSTRATE)
56	ALUM CLIP ANGLE (MID-SPAN JAMB TO MULLION)	3"x2"x1/4"x6" LG 6061-T6 ALUMINUM (STRUCTURAL STEEL AND CMU SUBSTRATE)
57	ALUM CLIP ANGLE (MID-SPAN JAMB TO MULLION)	3"x3"x1/4"x6" LG 6061-T6 ALUMINUM (CONCRETE SUBSTRATE)
58	ALUM. SHELF ANGLE (MID-SPAN JAMB TO MULLION)	6"x4"x3/8"x6" LG 6061-T6 ALUMINUM (CONCRETE SUBSTRATE)
59	ALUM. SHELF ANGLE (MID-SPAN JAMB TO MULLION)	6"x6"x3/8"x10" LG 6061-T6 ALUMINUM (CMU SUBSTRATE)
60	ALUM CLIP ANGLE (MID-SPAN JAMB TO MULLION)	3"x2"x1/4"x6" LG 6061-T6 ALUMINUM (ALUMINUM SUBSTRATE)
61	ALUM CLIP ANGLE (MID-SPAN JAMB TO MULLION)	6"x4"x3/8"x4" LG 6061-T6 ALUMINUM (CONCRETE SUBSTRATE)
63	ALUM. MULLION CLIP ANGLE	4"x4"x1/4"x11" LG 6061-T6 ALUMINUM (STEEL STUD SUBSTRATE)
64	ALUM. MULLION CLIP ANGLE	4"x4"x1/4"x11" LG 6061-T6 ALUMINUM (STRUCTURAL STEEL SUBSTRATE)
65	ALUM. MULLION CLIP ANGLE	4"x4"x1/4"x11" LG 6061-T6 ALUMINUM (CONCRETE SUBSTRATE)
66	ALUM. MULLION SHELF ANGLE	6"x4"x3/8"x27" LG 6061-T6 ALUMINUM (CONCRETE SUBSTRATE)
67	ALUM. MULLION CLIP ANGLE	4"x4"x1/4"x20" LG 6061-T6 ALUMINUM (CMU SUBSTRATE)
68	ALUM. MULLION SHELF ANGLE	8"x6"x5/8"x32" LG 6061-T6 ALUMINUM (CMU SUBSTRATE)
69	ALUM. MULLION CLIP ANGLE	4"x4"x1/4"x20" LG 6061-T6 ALUMINUM (WOOD SUBSTRATE)
70	ALUM. MULLION CLIP ANGLE	4"x4"x1/4"x11" LG 6061-T6 ALUMINUM (ALUMINUM SUBSTRATE)
71	ALUM. MULLION CLIP ANGLE	6"x4"x3/8"x20" LG 6061-T6 ALUMINUM (CONCRETE SUBSTRATE)
72	ALUM. SHIM PLATE (SHIPPED) WITH #68)	10"x1/4"x32" LG 5052-H32 ALUMINUM (CMU SUBSTRATE)
80	STEEL STUD	16 GA MINIMUM GALVANIZED STRUCTURAL STEEL STUD, Fy=33Ksi
81	STRUCTURAL STEEL	1/8" THK MIN. (ASTM A36)
82	ALUMINUM	1/8" THK. MIN (6063-T5)
83	CONCRETE	4000 LB MIN. CONCRETE - CRACKED, NORMAL WEIGHT
84	CMU	GROUT FILLED CONCRETE MASONRY UNIT (2,000 PSI, ASTM C90, TYPE II WITH MIN. 2000 PSI GROUT)
85	WOOD	G = 0.42 MINIMUM, SPRUCE PINE-FIR, 3" MIN. THICKNESS
100	1/4"-14 X 1" LG SELF DRILLING SCREW	THREAD FORMING OR SELF DRILL S.S FOR ALUM. AND FOR STEEL
101	1/4"-14 X 1-1/2" LG SCREW	THREAD FORMING OR SELF DRILL S.S FOR ALUM. AND FOR STEEL
102	1/2" HILTI KWIK BOLT TZ2	SS 304/316, EMBEDMENT MINIMUM OF 3-5/8"
103	1/2"x3" LAG SCREW	SS WOOD SCREW, MIN. EMBEDMENT 2-3/4", MIN EDGE/END DISTANCE 2" (PREDRILL HOLES @40-70% DIAMETER)
104	1/2" HILTI HIT-HY 270 HYBRID	ADHESIVE ANCHOR W/ASTM F593 CW 304/316 S.S. THREADED RODS, *ONLY ONE ANCHOR PER MASONRY CELL
105	1/2" HILTI KWIK BOLT TZ2	SS 304/316, EMBEDMENT MINIMUM OF 2-3/8"
110	1/4"-14 X 1-1/2" LG (MIN) BOLT, NUT & WASHER	1/4 - 14 SS ALLOY GROUP 1, 2 OR 3 CONDITION CW NUT, BOLT AND LOCKWASHER
111	3/8"-12 X 1-1/2" LG (MIN) NUT AND BOLT	3/8 - 12 S.S. ALLOY GROUP 1, 2, OR 3 CONDITION CW WITH LOCK WASHER
112	#12 SELF DRILLING SCREW	#12-24 x 2" S.S. ELCO BIFLEX SELF DRILLING SCREW WITH NO 5 POINT

*ALL S.S FASTENERS SPECIFIED ON THIS SHEET MUST BE PROVIDED AS
SERIES 300 S.S. CONDITION CW, Fy=65 ksi, Fu=110 ksi MINIMUM.

PROJECT: DC-9614 SUBMITTAL DRAWINGS

TITLE: PARTS LIST

SCALE: 3" = 1'-0"

DRW BY: R. GEIST

REVISION: 5 01-23-24

DATE: 11-20-15

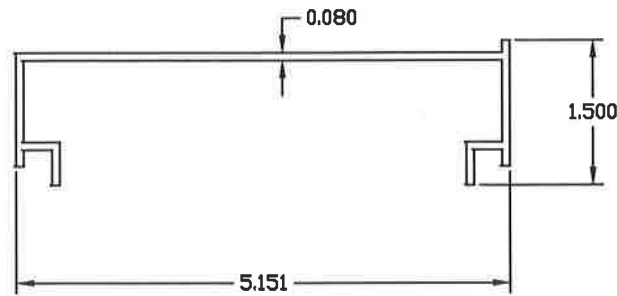
SHEET: 6 OF 13

DRW NO : RD-1457

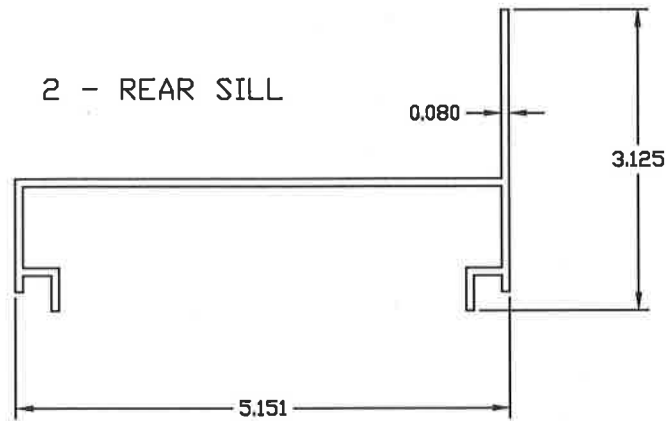
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PHONE: 1-800-631-7379 / FAX: 908-272-5844



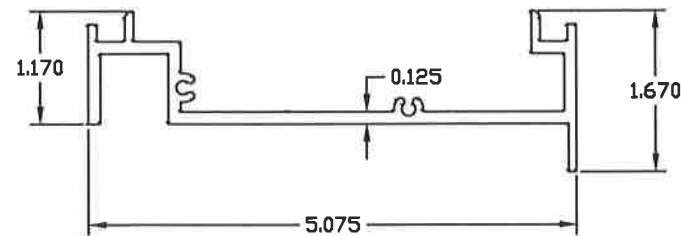
1 - REAR HEAD



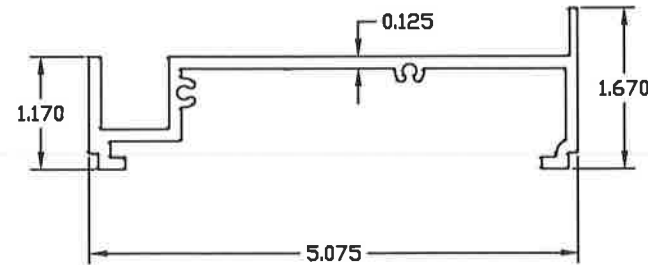
2 - REAR SILL



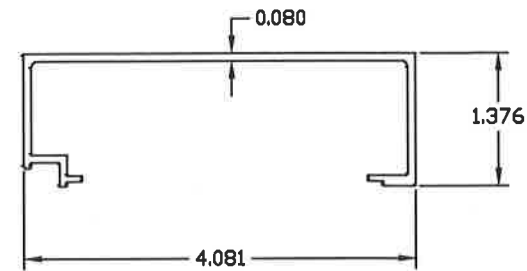
3 - REAR JAMB/MULLION HALF



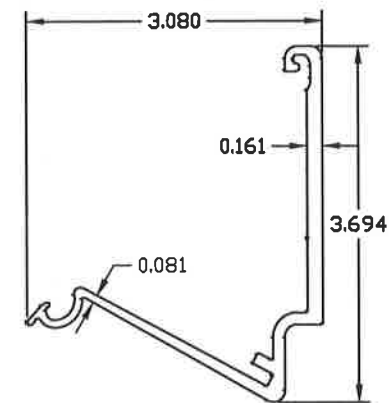
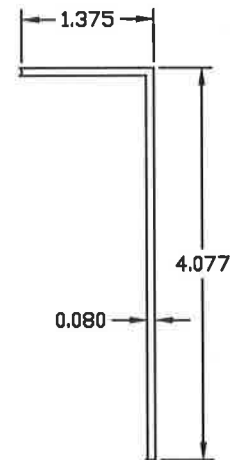
4 - REAR MULLION HALF



5 - FRONT HEAD & SILL



6 - FRONT JAMB ANGLE



7 - FRONT BLADE BRACE

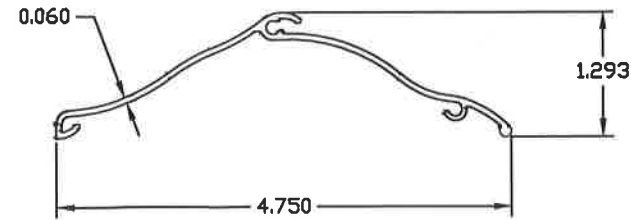
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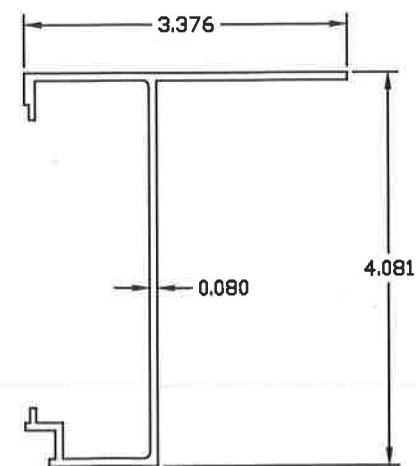
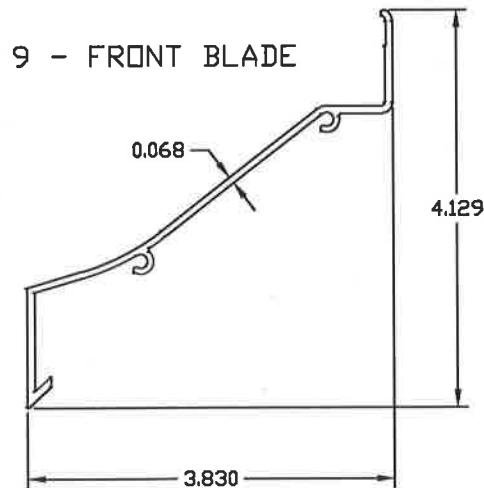
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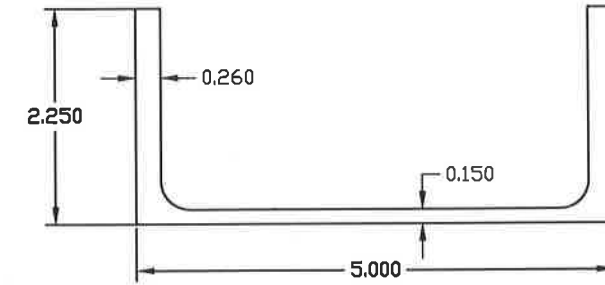
8 - REAR BLADE



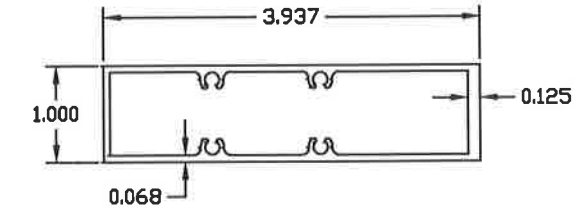
9 - FRONT BLADE



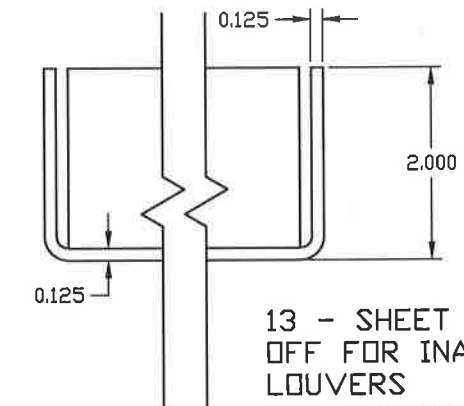
10 - SPECIAL SHAPE FRONT JAMB



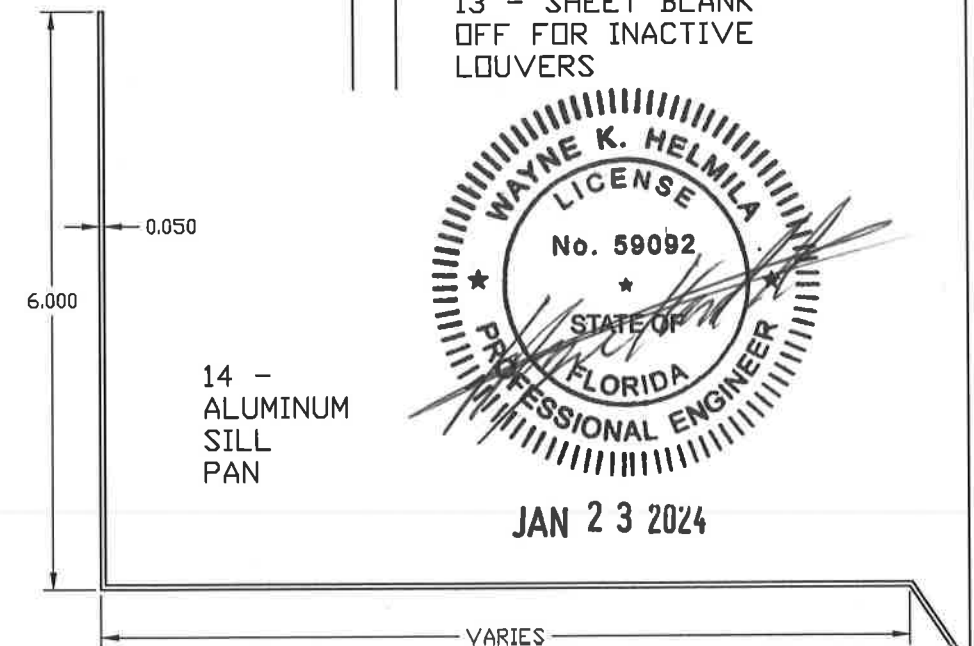
11 - MULLION REINFORCING CHANNEL



12 - SHEET SPLICE MID SUPPORT



13 - SHEET BLANK OFF FOR INACTIVE LOUVERS



14 - ALUMINUM SILL PAN



JAN 23 2024

REVISION: 5 01-23-24

DATE: 11-20-15

SHEET: 7 OF 13

DRW NO : RD-1457

PROJECT: DC-9614 SUBMITTAL DRAWINGS

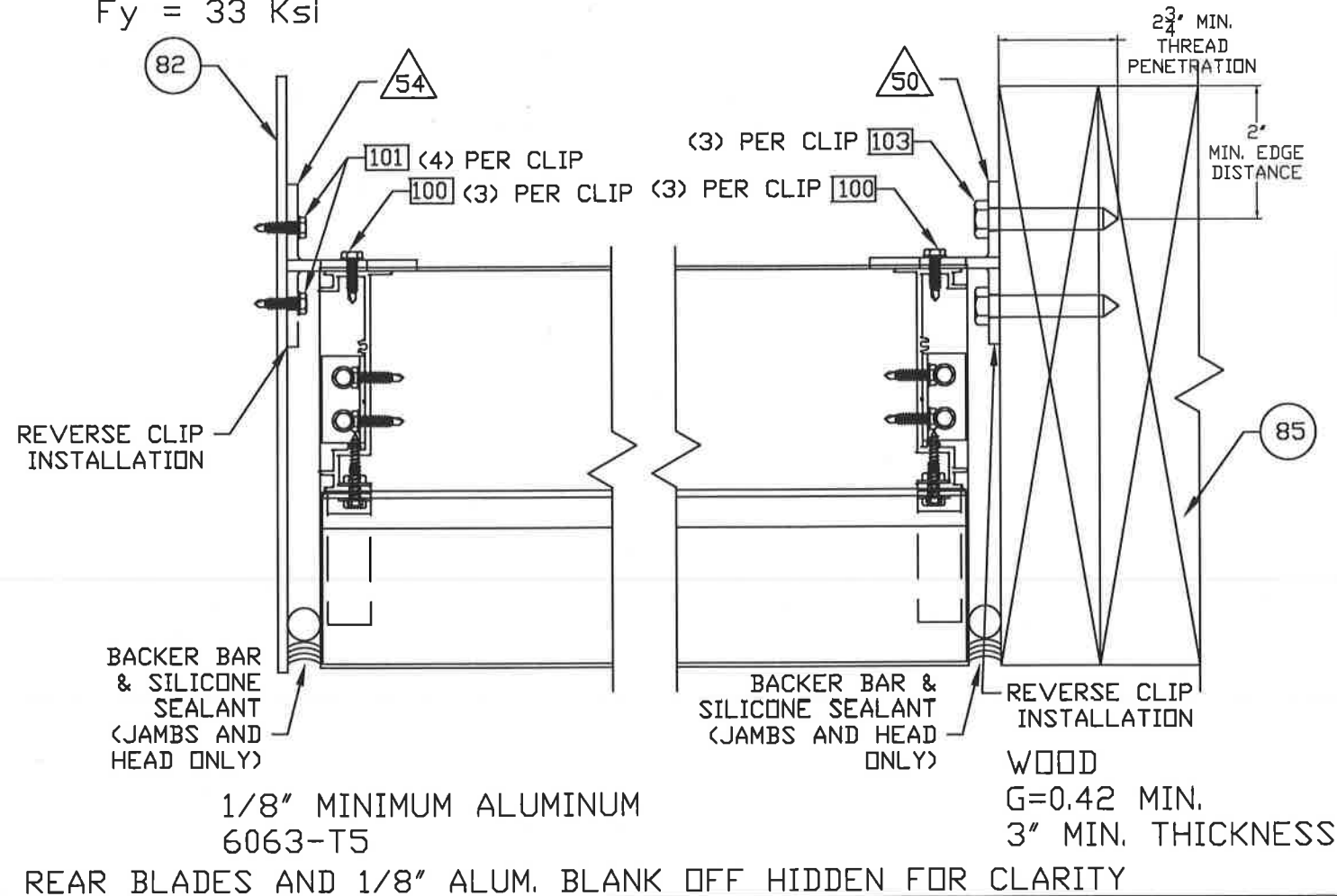
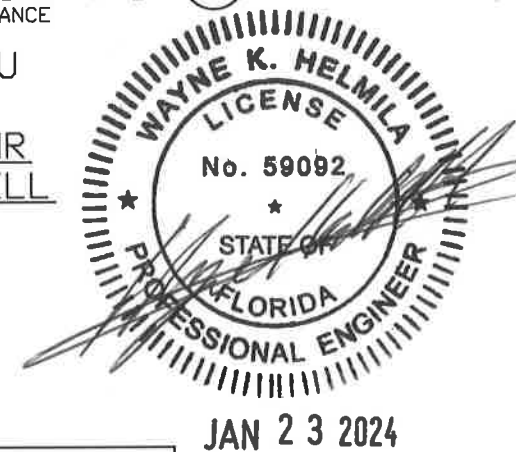
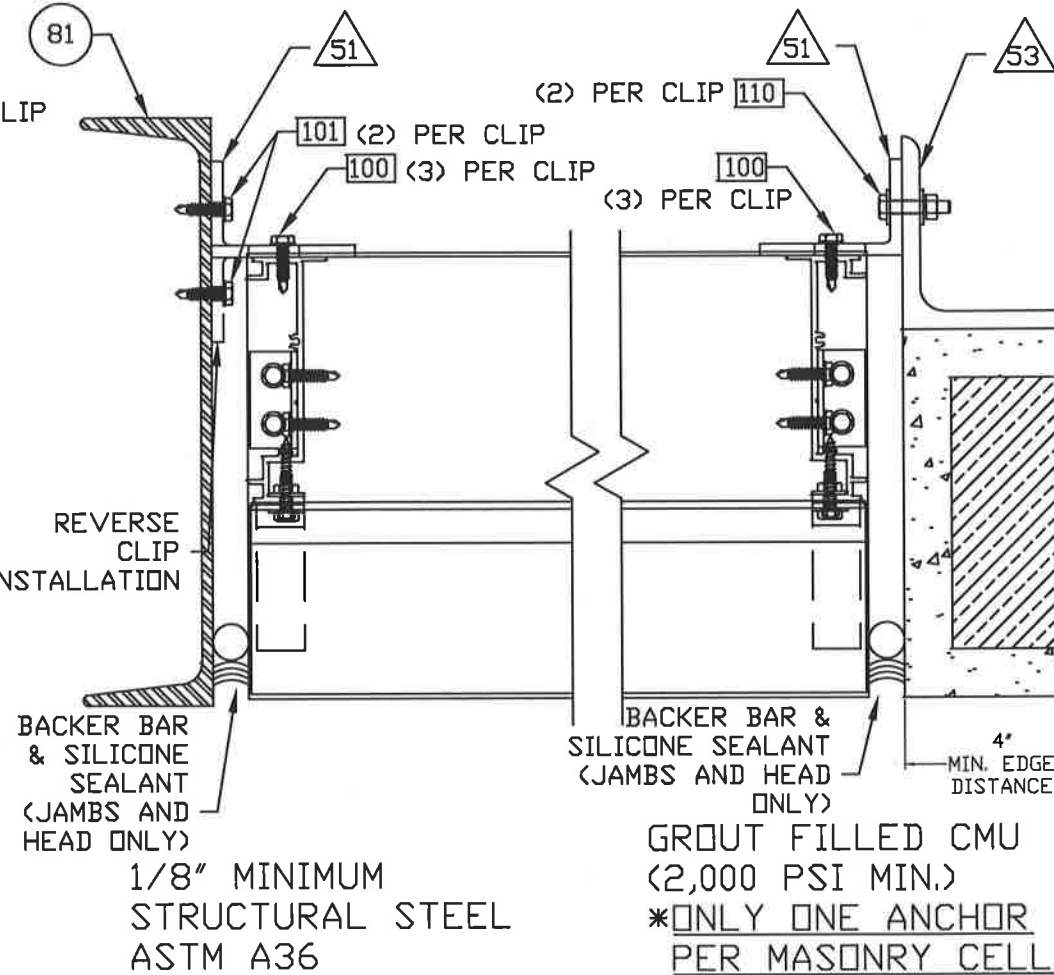
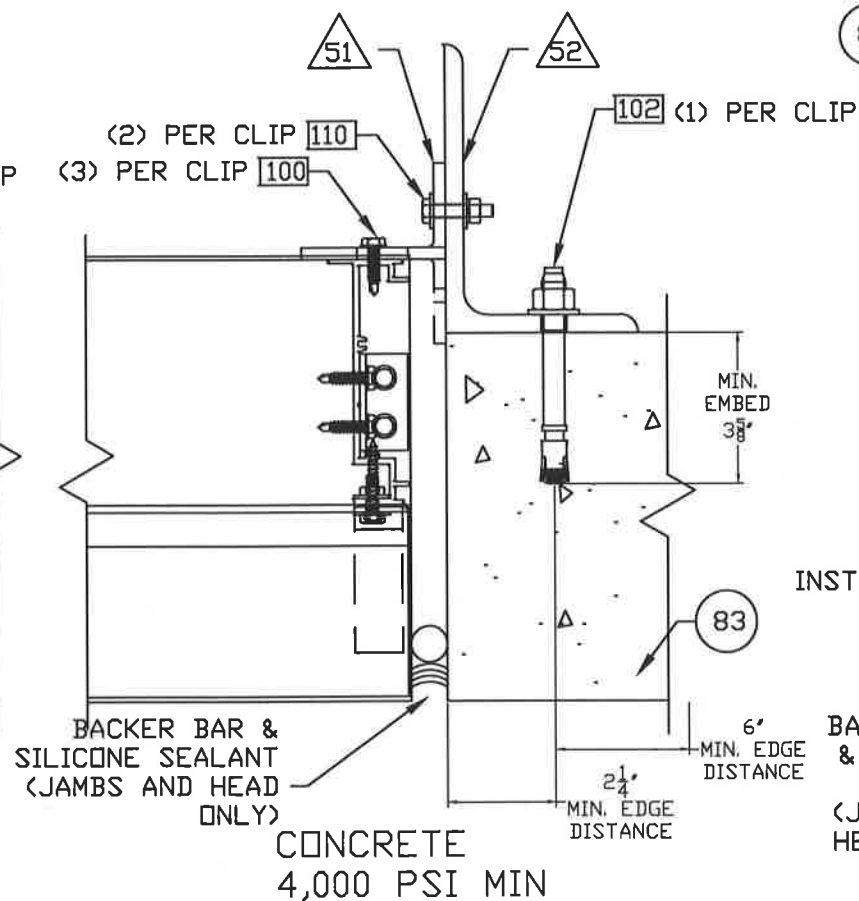
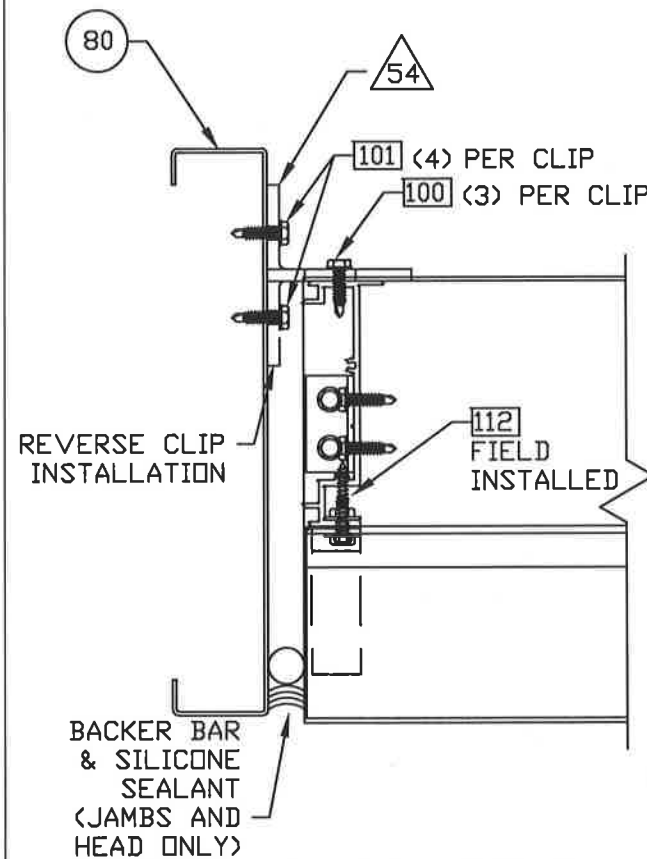
TITLE: PARTS DRAWING

SCALE: 6" = 1'-0"

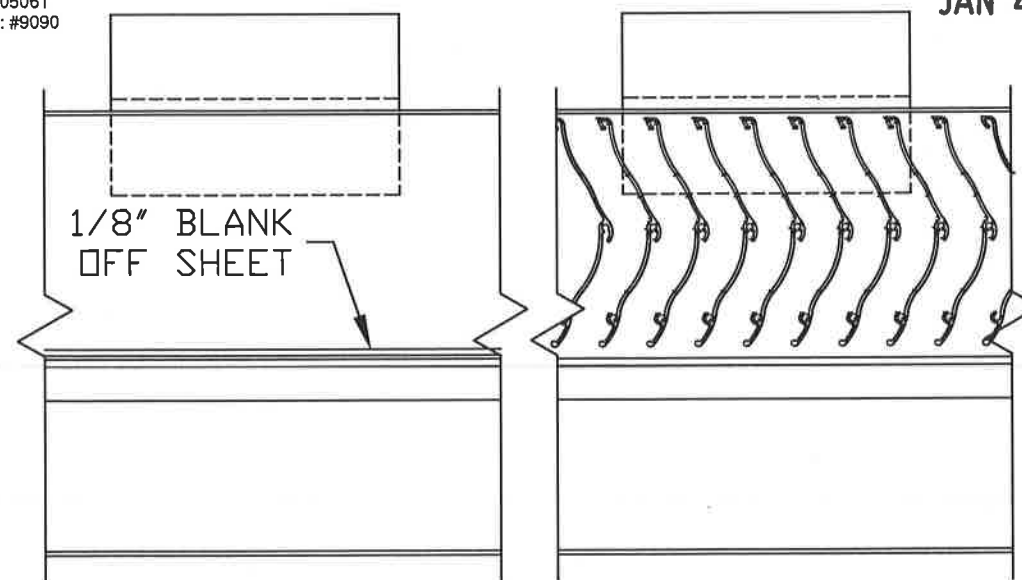
DRW BY: R. GEIST

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105 School Creek Trail
Luxemburg, WI 54217
Phone: (920) 617-1042
Fax: (920) 617-1100
www.rice-inc.com
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

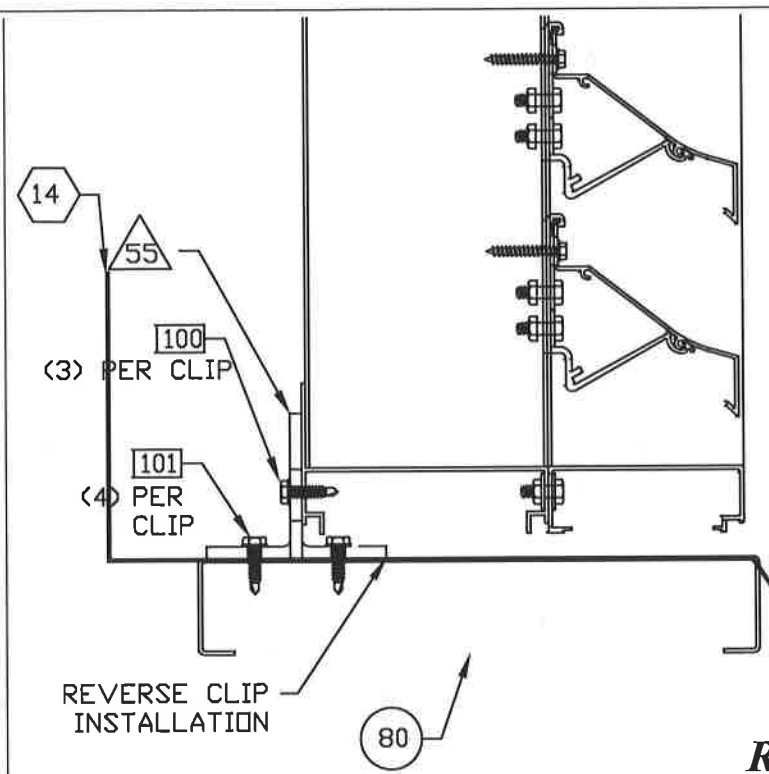


SEE MID-SPAN MOUNTING CONDITIONS (FOLLOWING SHEET) FOR ANGLES TO BE USED BETWEEN JAMBS AND MULLIONS. LOUVERS OF SPECIAL SHAPE (TRIANGULAR) USE MID-SPAN ANGLES ALONG THE SLOPED SIDE FOR ALL ATTACHMENTS EXCEPT MULLION ATTACHMENTS, WHICH WILL USE THE STANDARD MULLION ATTACHMENT FOR THE APPROPRIATE SUBSTRATE.

REVISION: 5	01-23-24
DATE: 11-20-15	
SHEET: 8 OF 13	
DRW NO: RD-1457	

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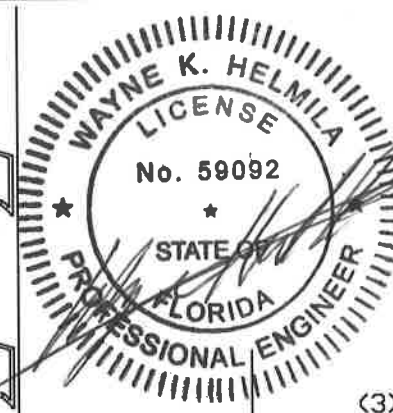
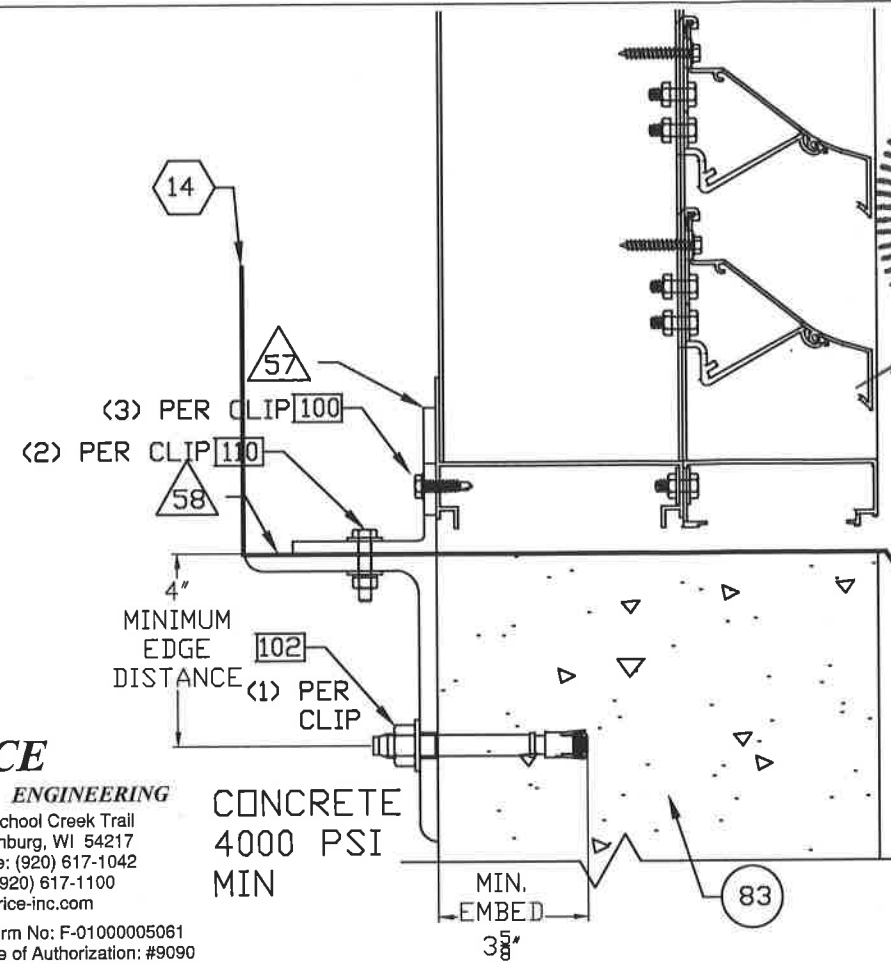


16 Ga MIN GALVANIZED
STRUCTURAL STEEL STUD
Fy = 33 Ksi

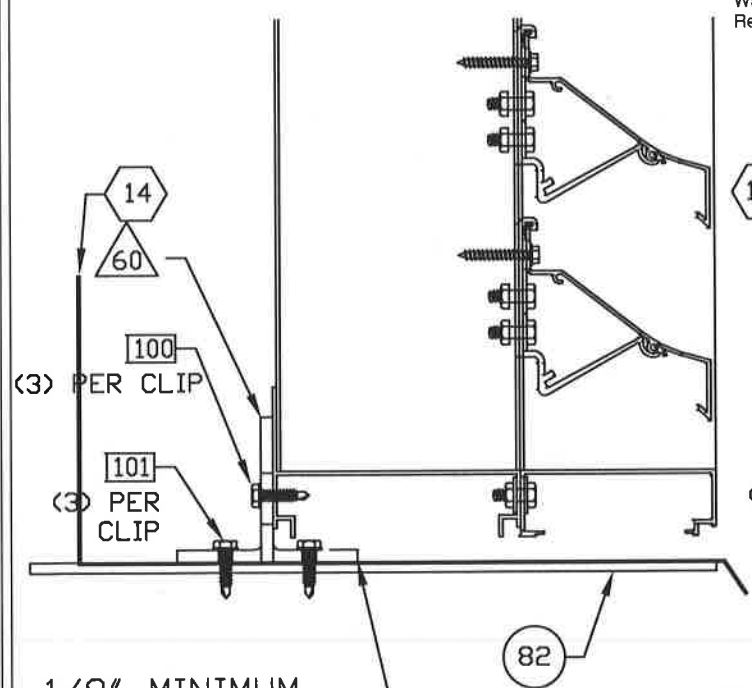
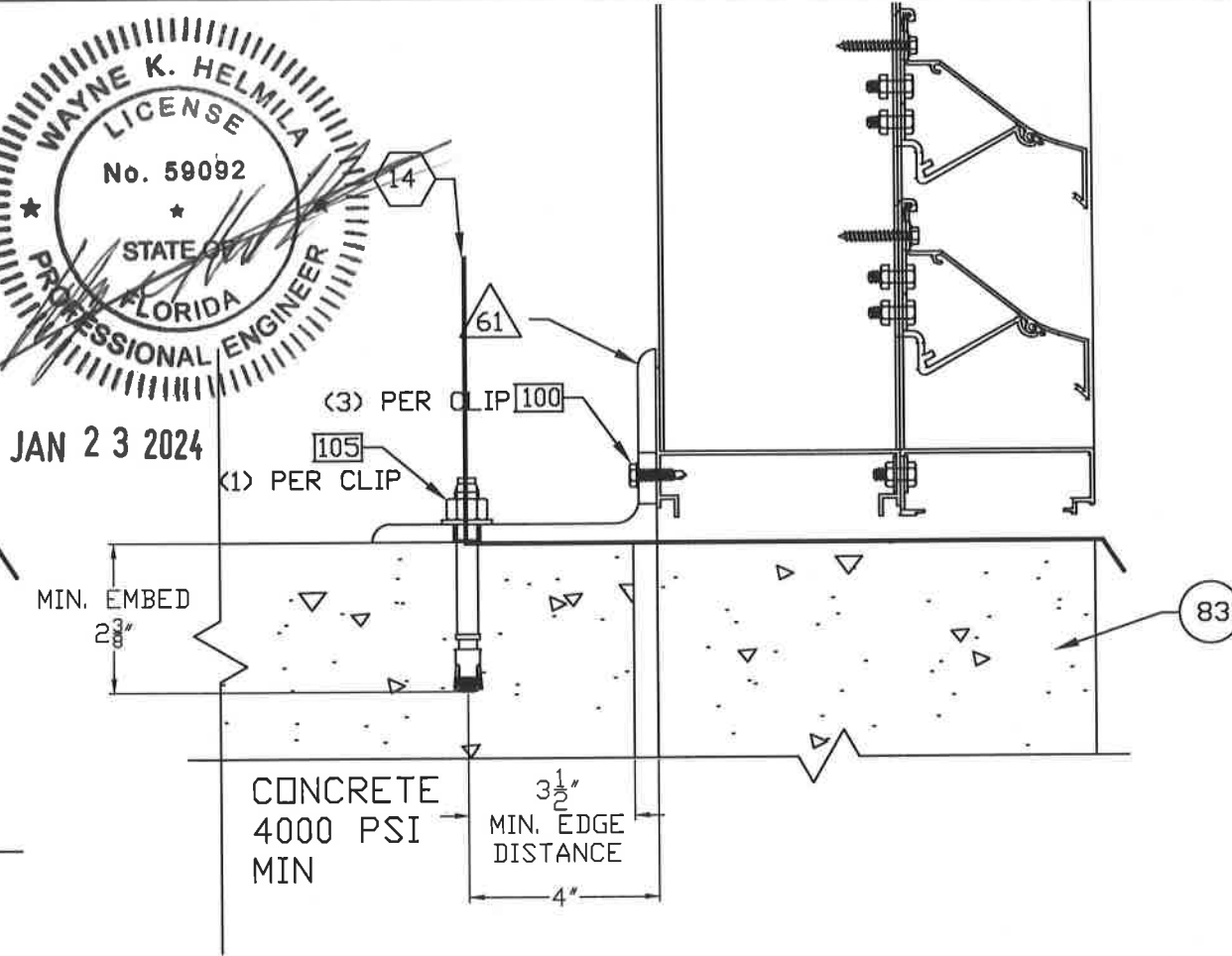
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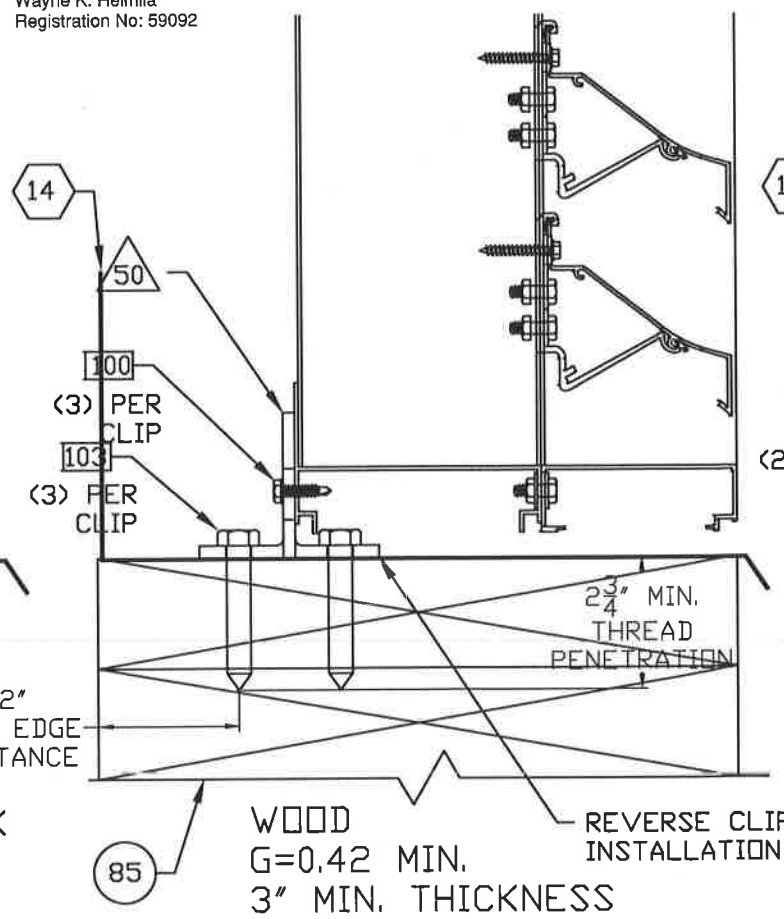


JAN 23 2024

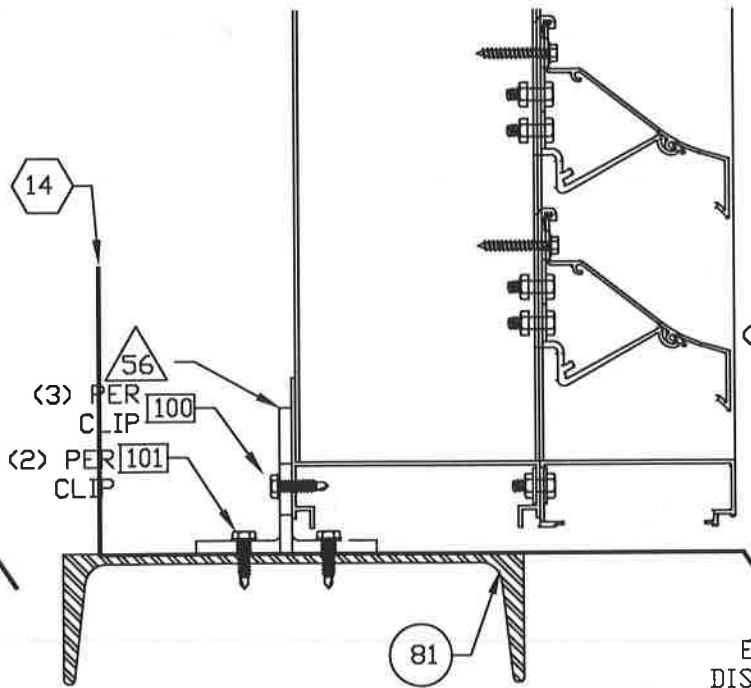


1/8" MINIMUM
ALUMINUM
6063-T5

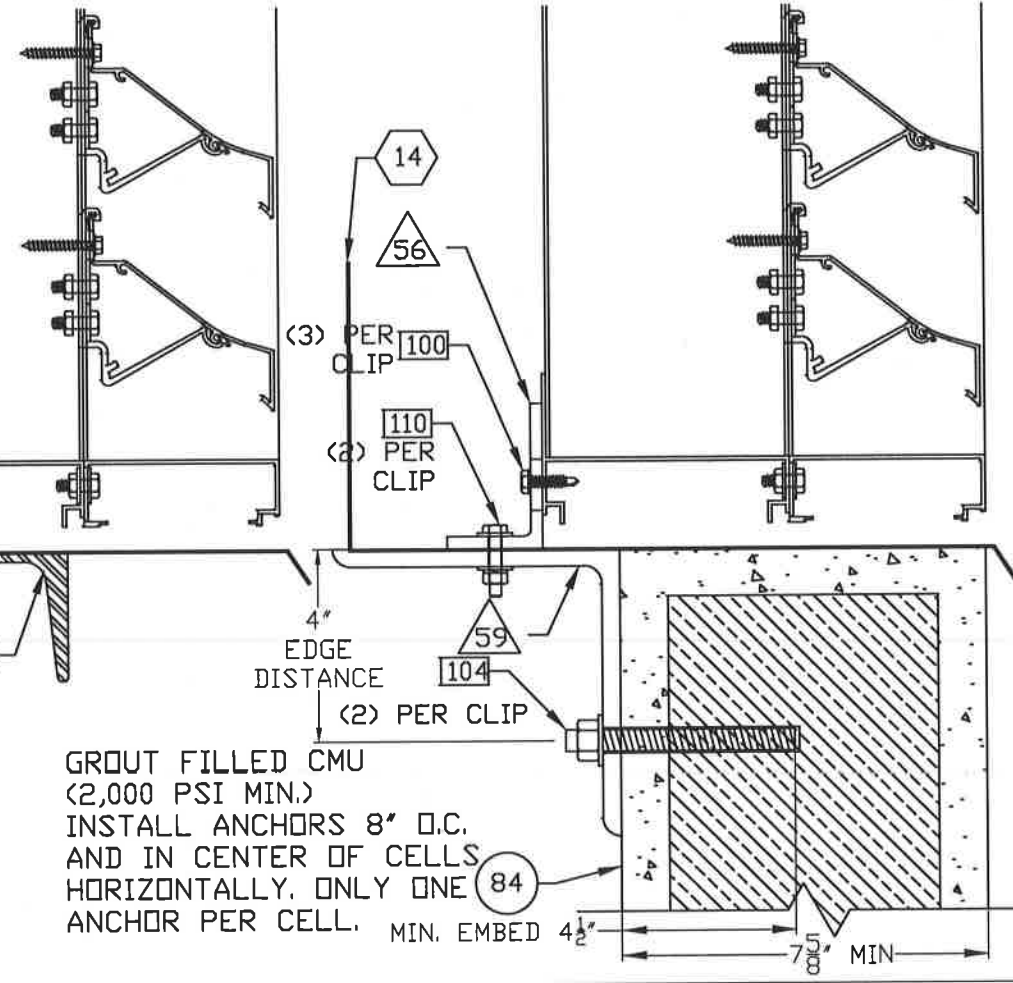
REAR BLADES AND 1/8" ALUM. BLANK
OFF HIDDEN FOR CLARITY
HEAD CONDITIONS ARE OPPOSITE OF
WHAT IS SHOWN, SAME ATTACHMENT
ANGLES ARE TO BE USED.



WOOD
G=0.42 MIN.
3" MIN. THICKNESS



1/8" MINIMUM
STRUCTURAL
STEEL
ASTM A36

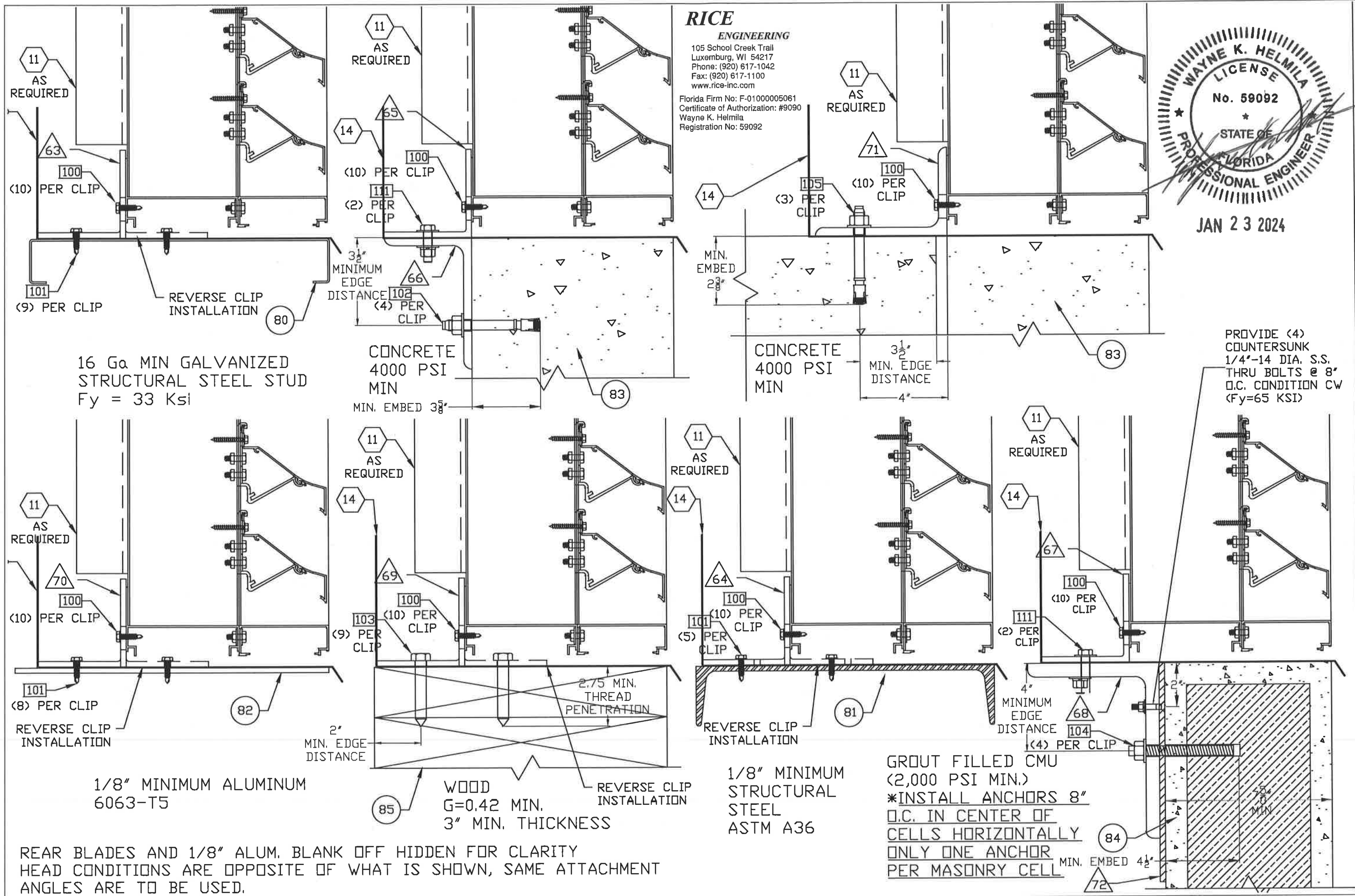


GROUT FILLED CMU
(2,000 PSI MIN.)
INSTALL ANCHORS 8" O.C.
AND IN CENTER OF CELLS
HORIZONTALLY. ONLY ONE
ANCHOR PER CELL. MIN. EMBED 4 1/2"

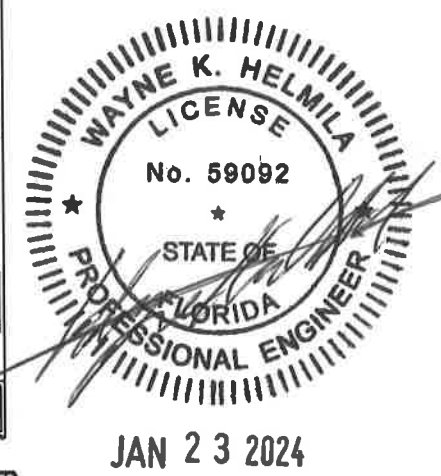
REVISION: 5	01-23-24
DATE: 11-20-15	
SHEET: 9 OF 13	
DRW NO: RD-1457	

PROJECT: DC-9614 SUBMITTAL DRAWINGS
TITLE: MID SPAN MOUNTING CONDITIONS
SCALE: 3" = 1'-0"
DRW BY: R. GEIST

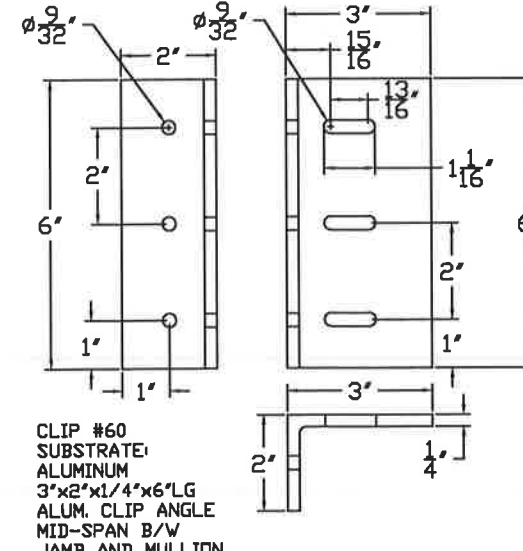
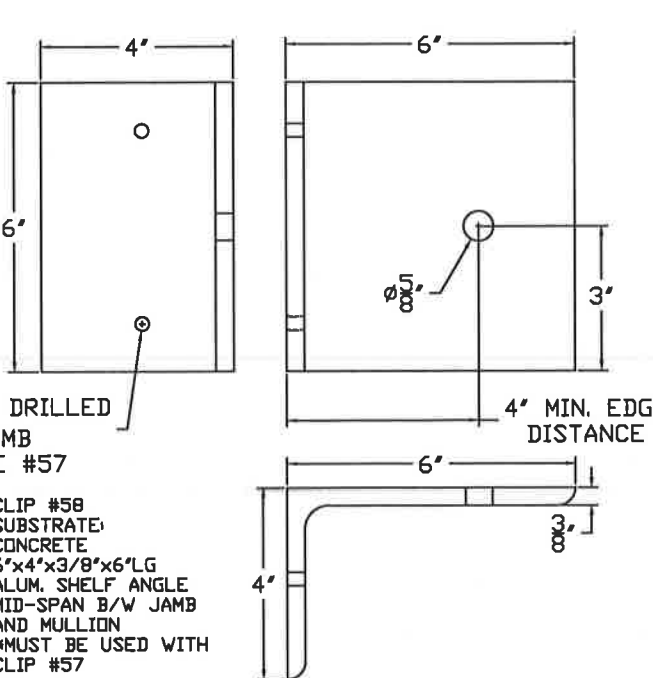
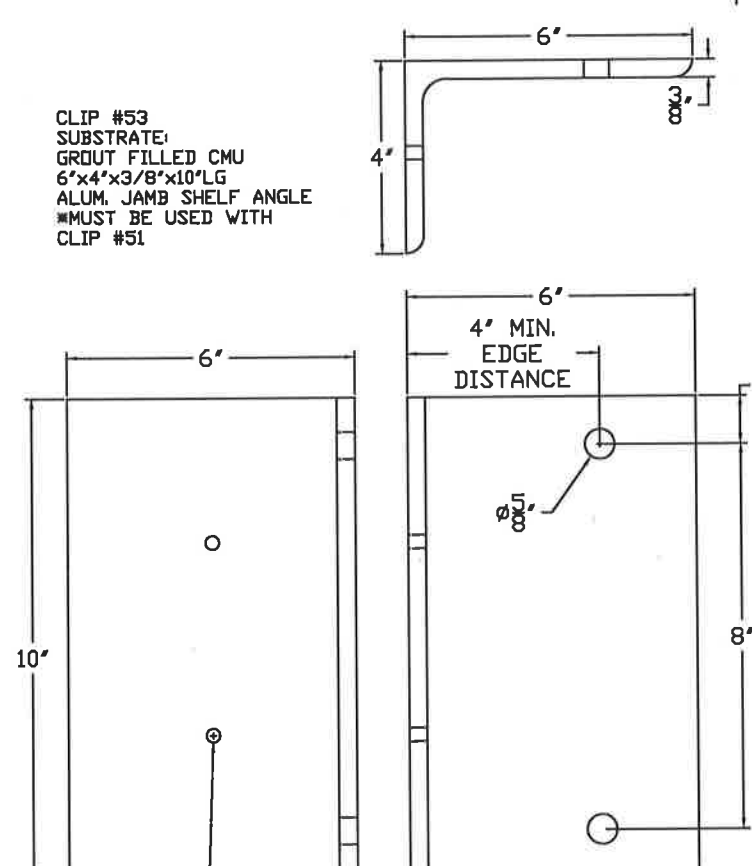
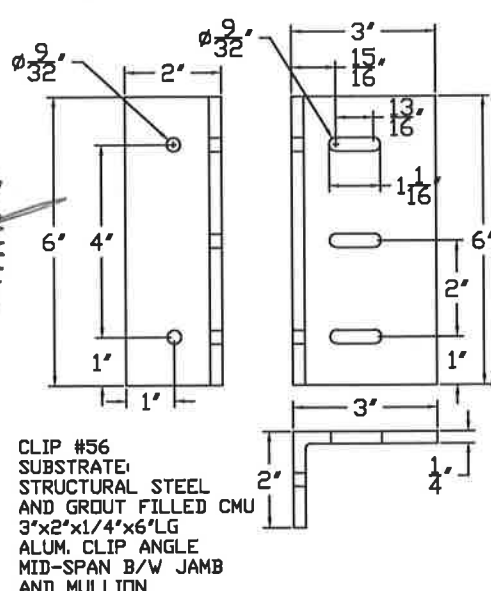
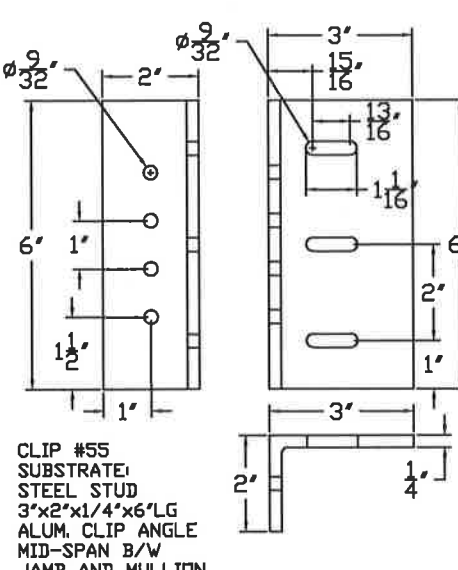
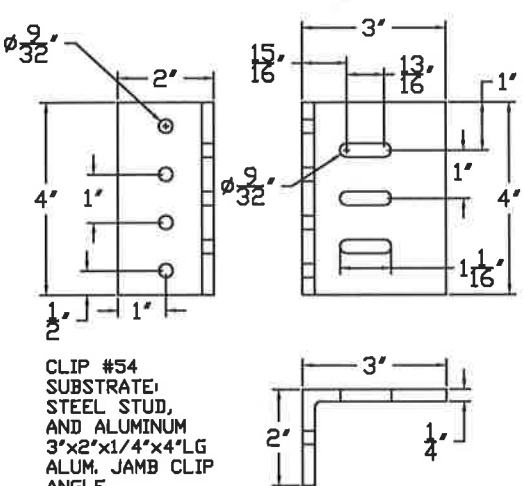
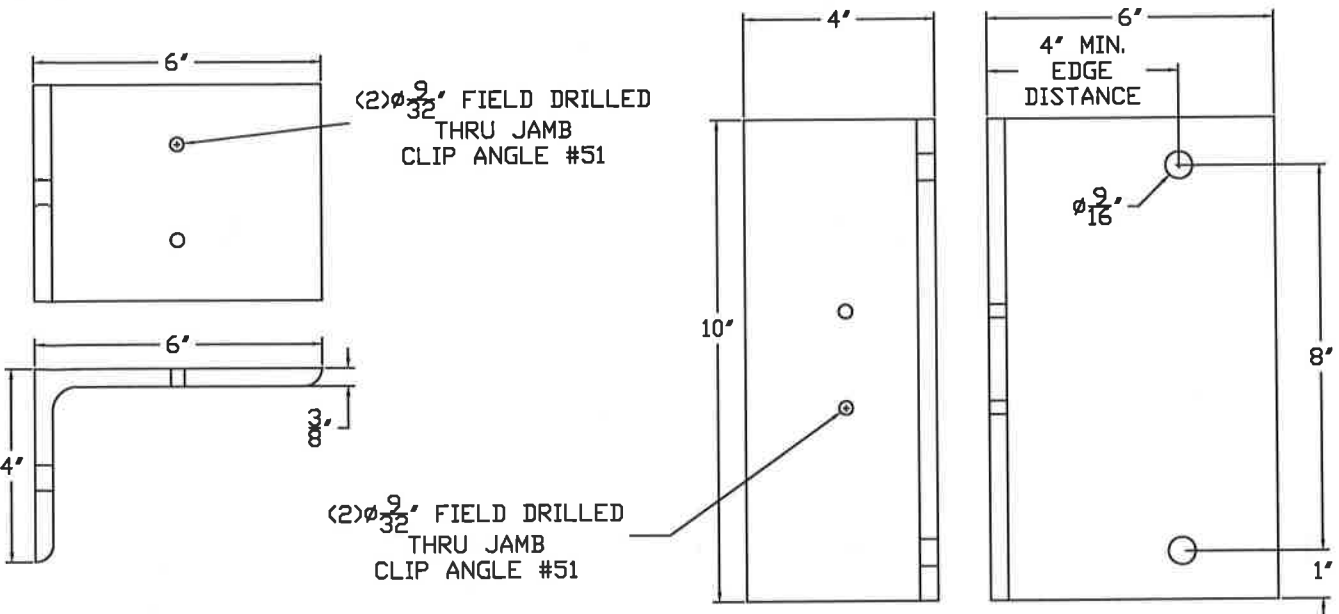
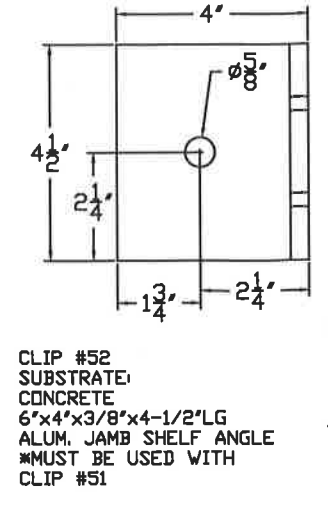
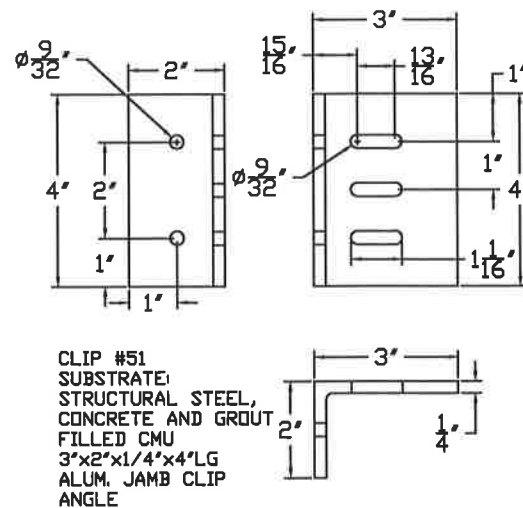
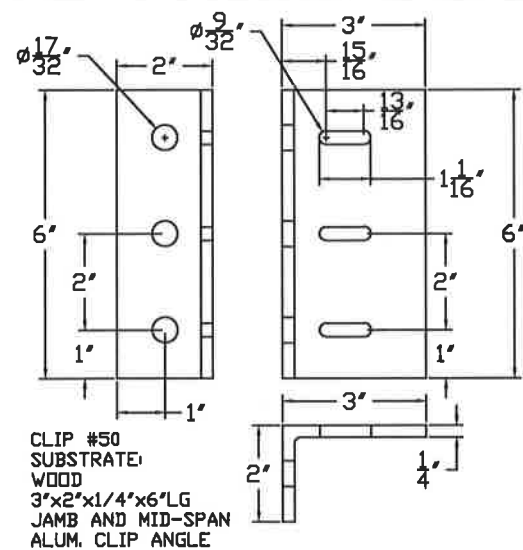
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Wayne K. Helmila
Registration No: 59092



REVISION: 5	01-23-24
DATE: 11-20-15	
SHEET: 10 OF 13	
DRW NO: RD-1457	
PROJECT: DC-9614 SUBMITTAL DRAWINGS	
TITLE: MULLION MOUNTING CONDITIONS	
SCALE: 3" = 1'-0"	
DRW BY: R. GEIST	
Construction Specialties™ 49 MEeker AVENUE, CRANFORD, NEW JERSEY PHONE: 1-800-631-7579 / FAX: 908-272-5844	



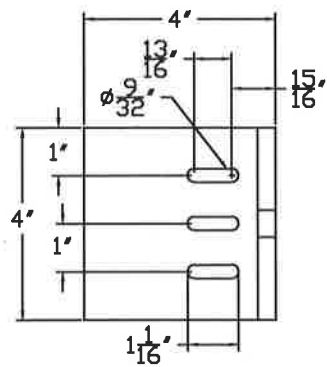
(2) 3/32" FIELD DRILLED
THRU JAMB
CLIP ANGLE #56

CLIP #59
SUBSTRATE:
GROUT FILLED CMU
6"x6"x3/8"x10" LG
ALUM. SHELF ANGLE
MID-SPAN B/W JAMB
AND MULLION
*MUST BE USED WITH
CLIP #56

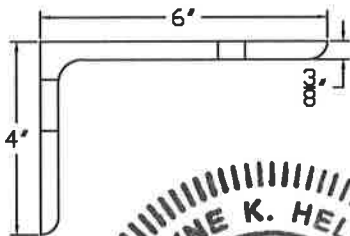
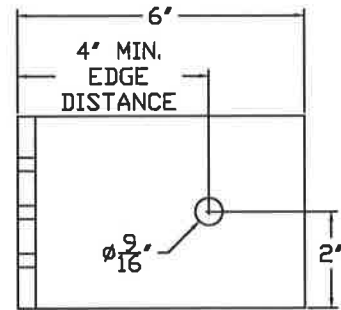
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Registration No: 59092

PROJECT: DC-9614 SUBMITTAL DRAWINGS	REVISION: 5	01-23-24
TITLE: CLIP ANGLES PART A	DATE: 11-20-15	
SCALE: 3" = 1'-0"	SHEET: 11 OF 13	
DRW BY: R. GEIST	DRW NO: RD-1457	

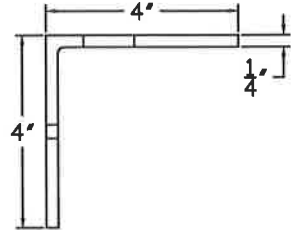
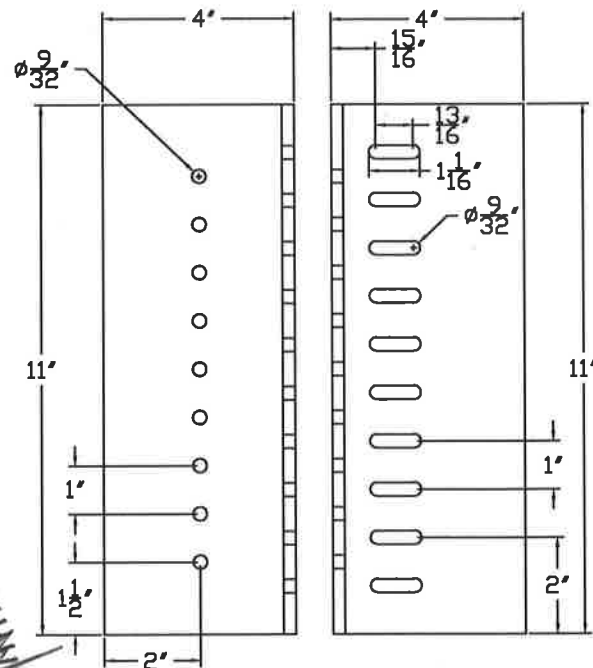
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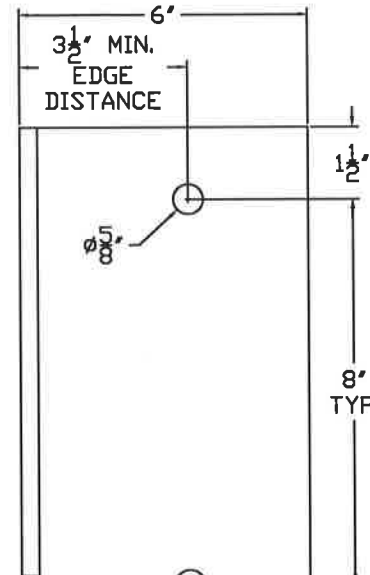
CLIP #61
SUBSTRATE:
CONCRETE
6"x4"x3/8"x4"LG
ALUM. CLIP ANGLE
MID-SPAN B/W JAMB
AND MULLION



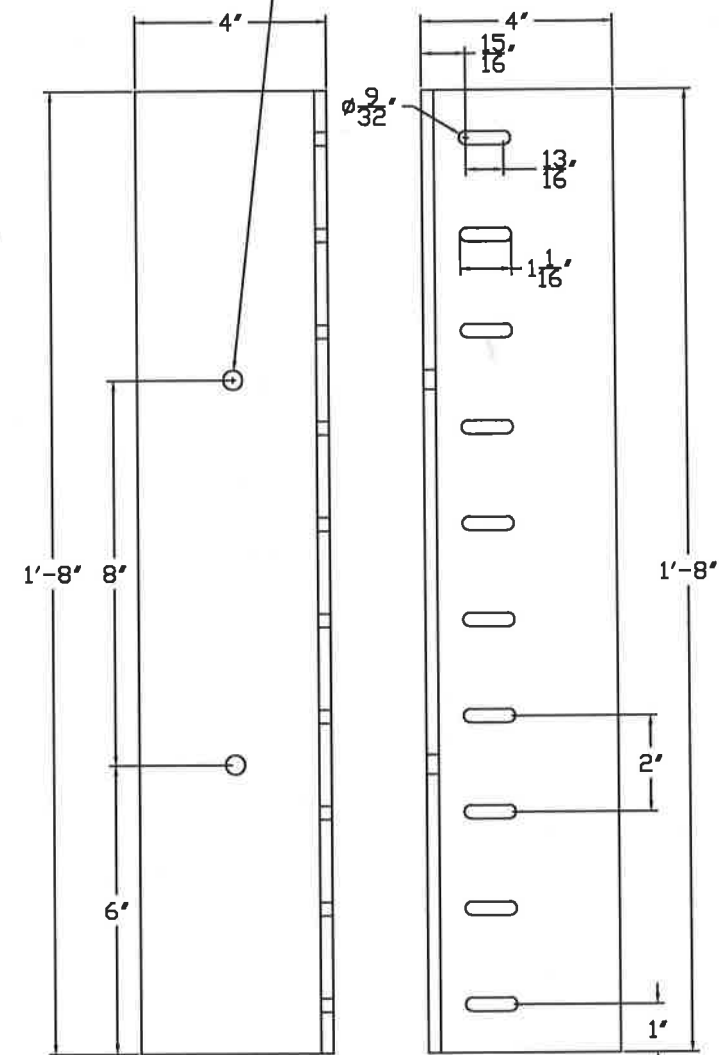
CLIP #63
SUBSTRATE:
STEEL STUD
4"x4"x1/4"x11"LG
ALUM. MULLION CLIP
ANGLE



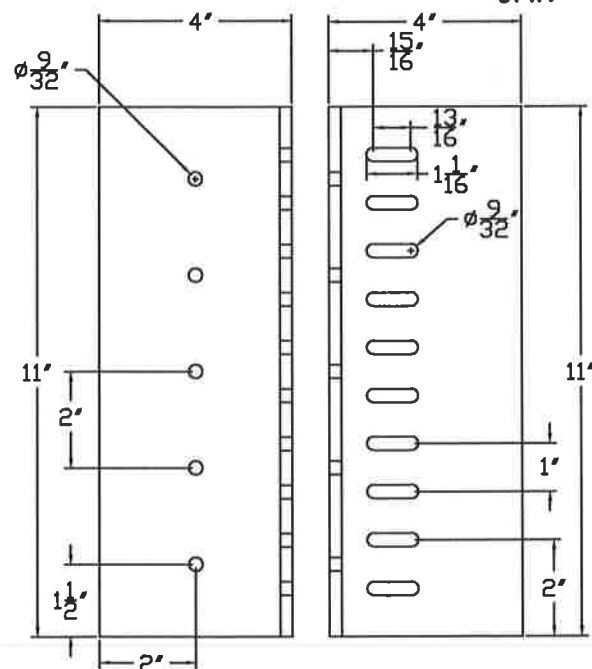
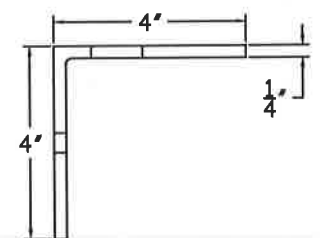
(2) $\phi 13/32$ FIELD DRILLED
THRU JAMB CLIP ANGLE



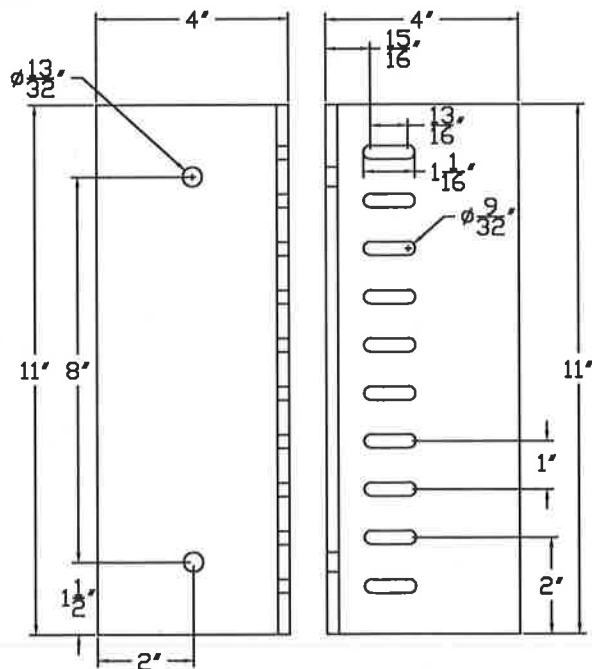
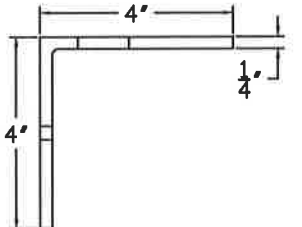
(2) $\phi 13/32$ FIELD DRILLED
THRU JAMB CLIP ANGLE



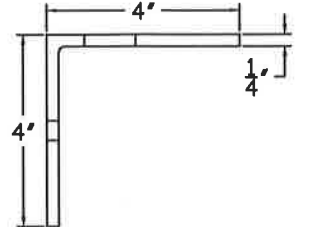
CLIP #67
SUBSTRATE:
GROUT FILLED CMU
4"x4"x1/4"x20"LG
ALUM. MULLION CLIP
ANGLE



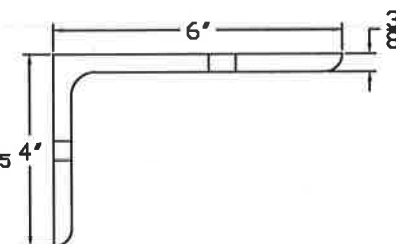
CLIP #64
SUBSTRATE:
STRUCTURAL STEEL
4"x4"x1/4"x11"LG
ALUM. MULLION CLIP
ANGLE



CLIP #65
SUBSTRATE:
CONCRETE
4"x4"x1/4"x11"LG
ALUM. MULLION CLIP
ANGLE



CLIP #66
SUBSTRATE:
CONCRETE
6"x4"x3/8"x27"LG
ALUM. MULLION SHELF ANGLE
MUST BE USED WITH CLIP #65



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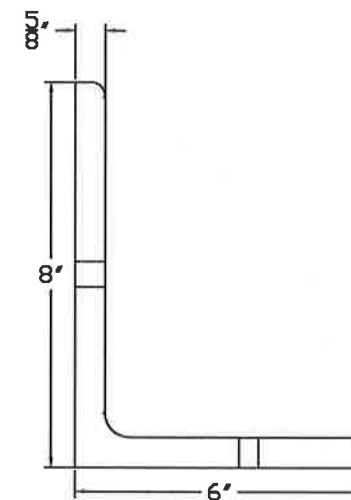
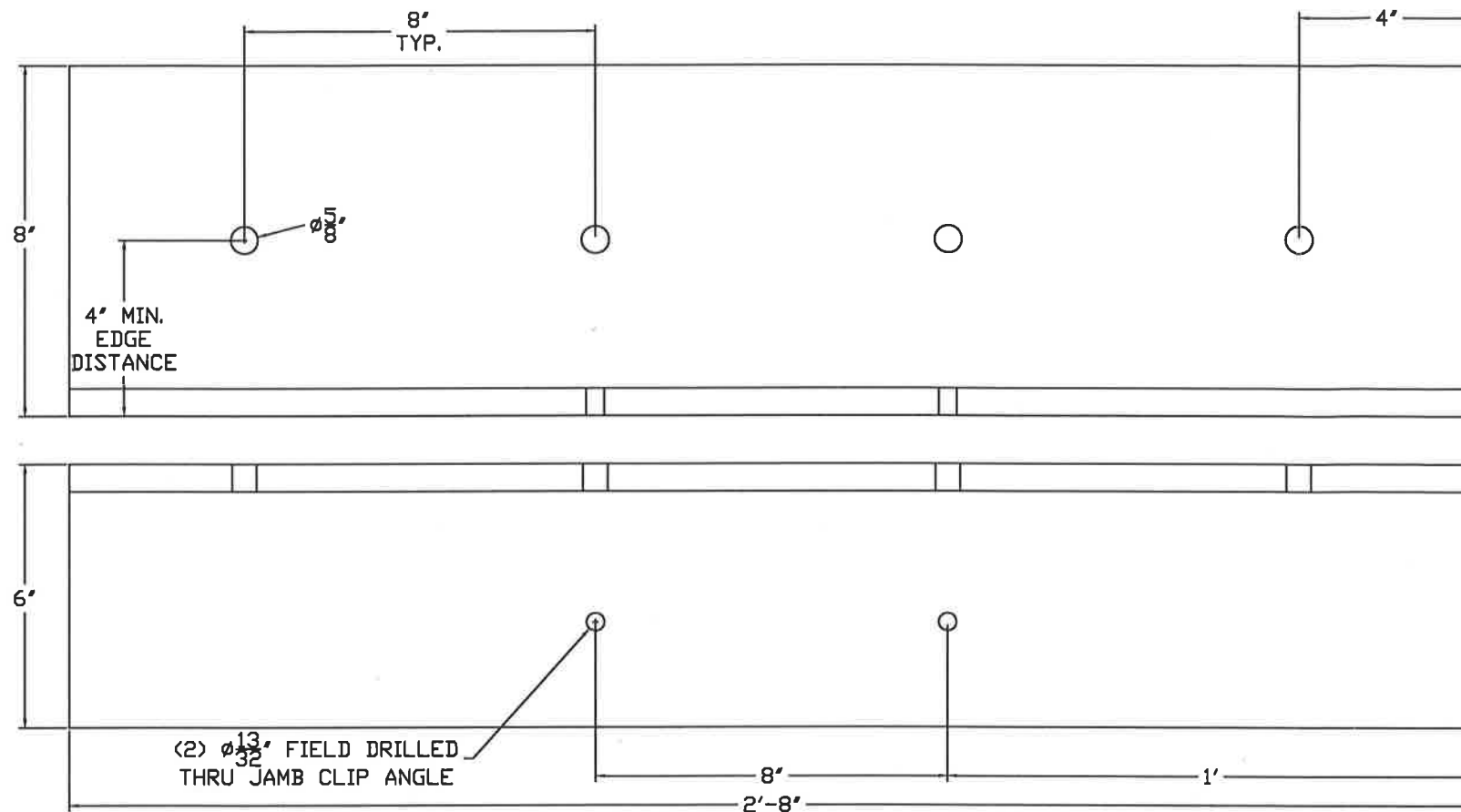
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PROJECT: DC-9614 SUBMITTAL DRAWINGS
TITLE: CLIP ANGLES PART B
SCALE: 3" = 1'-0"
DRW BY: R. GEIST

REVISION: 5 01-23-24
DATE: 11-20-15
SHEET: 12 OF 13
DRW NO: RD-1457

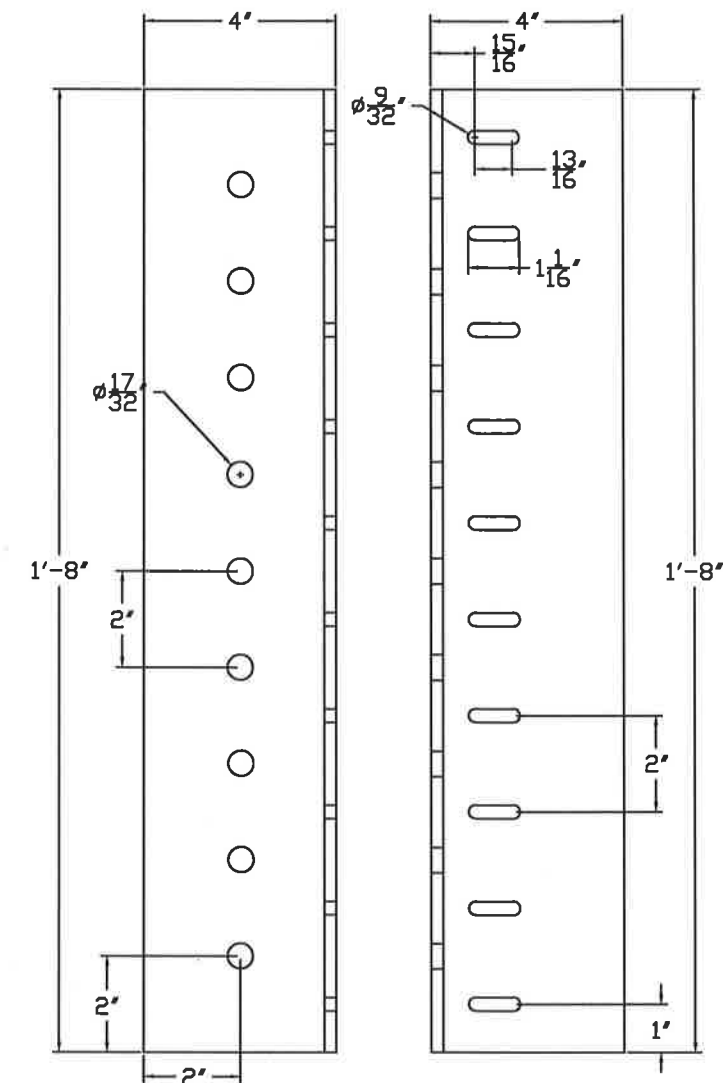


CLIP #68
SUBSTRATE:
GROUT FILLED CMU
8"x6"x5/8"x32"LG
ALUM. MULLION SHELF ANGLE
*MUST BE USED WITH CLIP #67
AND ALUM. SHIM PLATE #72

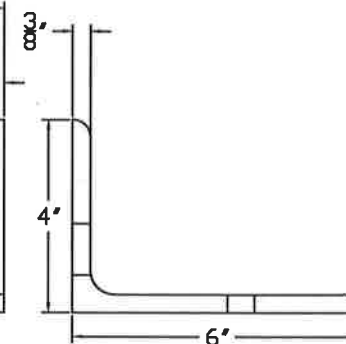
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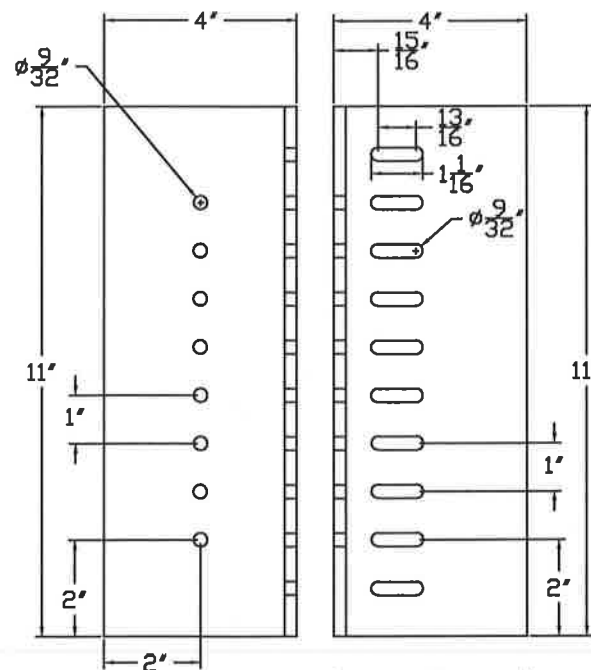
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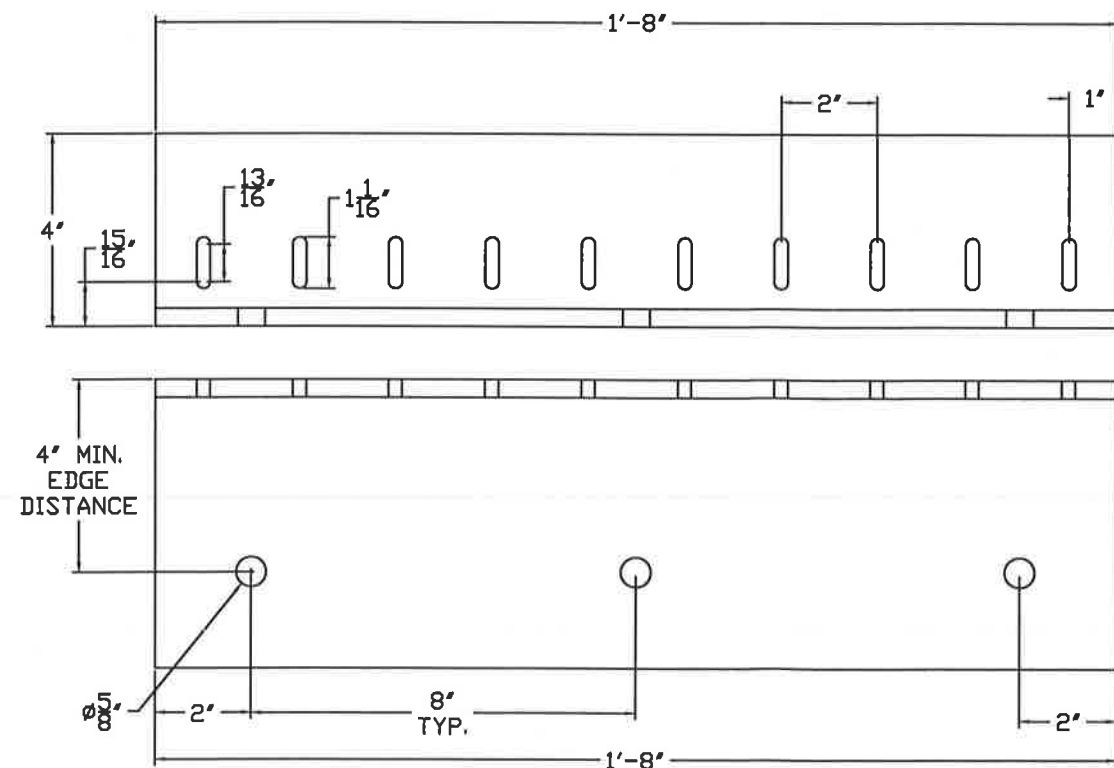
CLIP #69
SUBSTRATE:
WOOD
4"x4"x1/4"x20"LG
ALUM. MULLION CLIP
ANGLE



CLIP #71
SUBSTRATE:
CONCRETE
6"x4"x3/8"x20"LG
ALUM. MULLION CLIP
ANGLE



CLIP #70
SUBSTRATE:
ALUMINUM
4"x4"x1/4"x11"LG
ALUM. MULLION CLIP
ANGLE



JAN 23 2024

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PROJECT: DC-9614 SUBMITTAL DRAWINGS

TITLE: CLIP ANGLES PART C

SCALE: 3" = 1'-0"

DRW BY: R. GEIST

REVISION: 5 01-23-24

DATE: 11-20-15

SHEET: 13 OF 13

DRW NO : RD-1457