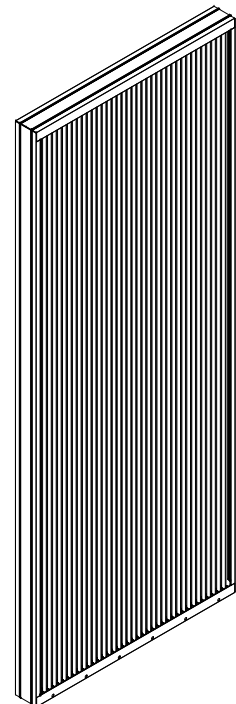
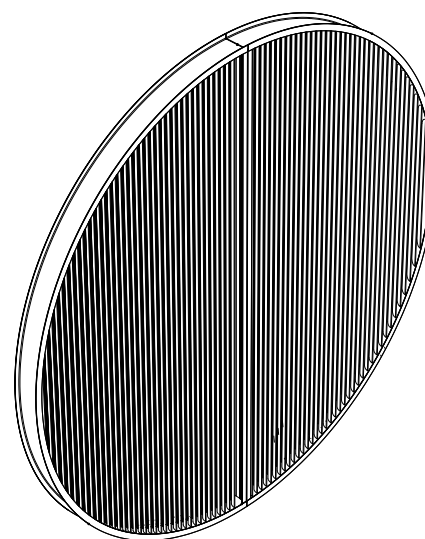


PARTS LIST FOR STANDARD LOUVER			
ITEM	DESCRIPTION	MATERIAL	ALLOY
1	HEAD FRAME	.095" THK EXTRUDED ALUM.	6063-T6
2	SILL FRAME	.095" THK EXTRUDED ALUM.	6063-T6
3	JAMB FRAME	.095" THK EXTRUDED ALUM.	6063-T6
4	BLADE	.080" THK EXTRUDED ALUM.	6063-T6
5	CORE ANGLE	.080" THK EXTRUDED ALUM.	6063-T6
6	H.H.B.S.	.080" THK EXTRUDED ALUM.	6063-T6
MULTI SECTION CONNECTION PARTS (SHIPPED LOOSE)			
7	SPLICE PLATE	.125" THK EXTRUDED ALUM.	6063-T6
8	#12-14 X 3/4" LG "HWH" TYPE "SDS"	410SS	-
STANDARD LOUVER W/ CHANNEL INSTALL (SHIPPED LOOSE)			
9	INSTALL CHANNEL	.188" THK FORMED ALUM.	3003-H14 OR 5005-H34
10	CONT. RETAINING ANGLE	.250" THK EXTRUDED ALUM.	6063-T6
11	1/4-14 X 1 1/2" LG "HWH" TYPE "SDS"	410SS	-
FOR SHAPED LOUVER			
12	EXTERIOR FRAME	.080" THK EXTRUDED ALUM.	6063-T4
13	WATER STOP	.080" THK FORMED ALUM.	3003-H14 OR 5005-H34
INSTALLATION PARTS (SHIPPED LOOSE)			
14	CONT. ATTACHMENT ANGLE	.250" THK EXTRUDED ALUM.	6063-T6
15	ALTERNATE ATTACHMENT CONT. ZEE	.250" THK FORMED ALUM.	3003-H14
16	3" ALTERNATE ATTACHMENT ZEE CLIP	.250" THK FORMED ALUM.	3003-H14
17	ALTERNATE ATTACHMENT CONT. FLAT PLATE	.250" THK ALUM.	3003-H14
18	ALTERNATE ATTACHMENT CONT. STIFFENER PLATE	.125" THK ALUM.	5005-H34
19	ATTACHMENT CLIP ANGLE	.250" THK EXTRUDED ALUM.	6063-T6
20	3" ALTERNATE ATTACHMENT FLAT PLATE	.250" THK ALUM.	3003-H14
21	#10-16 X 1 1/2" LG "HWH" TYPE "SDS"	410SS	-
22	SUBSTRATE FASTENER (RECT. LOUVER)(BY OTHERS)	VARIES REF TABLE 1/13	-
23	SUBSTRATE FASTENER (SHAPED LOUVER)(BY OTHERS)	VARIES REF TABLE 2/13	-



**RECTANGLE LOUVER**

N.T.S.  
CHANNEL FRAME REF. SHEETS 02 THRU 04  
CHANNEL INSTALL REF. SHEETS 05 & 10



**SHAPED LOUVER**

N.T.S.  
REF. SHEETS 06 THRU 10

**NOTES:**

1. THE EME6625D COMPLIES WITH THE REQUIREMENTS OF THE 2018 IBC. THE EME6625D HAS BEEN TESTED IN ACCORDANCE WITH & QUALIFIED TO FLORIDA PROTOCOLS TAS-201, 202, & 203 FOR LARGE MISSILE IMPACT, UNIFORM PRESSURE, CYCLIC WIND PRESSURE, & AMCA 550 FOR HIGH VELOCITY WIND DRIVEN RAIN. AMCA 550 ONLY APPLIES TO RECTANGLES, NOT APPLICABLE FOR SHAPES.
2. QUALIFICATION TO FLORIDA PROTOCOL AMCA 550 ALLOWS THIS LOUVER TO BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVER IS NOT DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM & THE ROOM DOES NOT HOUSE WATER RESISTANT/WATER PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES.
3. THIS LOUVER SYSTEM IS APPROVED FOR APPLICATIONS WITH DESIGN PRESSURES OF +/- 160 PSF OR LESS. THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEAD LOADS.
4. RUSKIN DOES NOT DETERMINE THE STRUCTURAL INTEGRITY OF THE STRUCTURE. SUBSTRATE REQUIREMENTS GIVEN IN TABLES 1 & 2 ON SHEET 13 ARE AS NEEDED FOR ANCHORAGE ONLY.
5. MAXIMUM SINGLE SECTION SIZE FOR RECTANGLES IS 48" WIDE X 96" HIGH. MAXIMUM SINGLE SECTION SIZE FOR SHAPES IS 48" WIDE X 96" HIGH. UNLIMITED WIDTH CAN BE ACCOMPLISHED BY PLACING SINGLE SECTIONS SIDE BY SIDE.
6. SECTIONS OR ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDING A SUITABLE STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER.
7. ALL WELDED ATTACHMENTS REQUIRE MIN. FILLER METAL OF 4043 ALUMINUM ALLOY WITH MIN. TENSILE STRENGTH OF 24KSI.
8. EXTRUDED ALUMINUM H.H.B.S. CHANNEL TO BE NOTCHED TO FIT OVER JAMB FRAMES & TO FIT BETWEEN EACH BLADE. H.H.B.S. CHANNEL TO BE WELDED TO EACH BLADE AND TO JAMB FRAMES. H.H.B.S. CHANNEL IS REQUIRED FOR ANY LOUVER ASSEMBLY EXCEEDING 32" IN HEIGHT EQUALLY SPACED BETWEEN HEAD AND SILL. TWO H.H.B.S. ARE TO BE POSITIONED EQUALLY SPACED BETWEEN HEAD & SILL WHEN SPAN IS OVER 64" IN HEIGHT.

**ABBREVIATIONS:**

- CONT. - CONTINUOUS
- N.T.S. - NOT TO SCALE
- H.H.B.S.- HIDDEN HORIZONTAL BLADE SUPPORT
- L.D. - LOUVER DIMENSION
- MAX. - MAXIMUM
- MIN. - MINIMUM
- NOM. - NOMINAL
- N.T.E. - NOT TO EXCEED
- O/C - ON CENTER
- OPP. - OPPOSITE
- R.O. - ROUGH OPENING
- SIM. - SIMILAR
- S.S. - SHIP SECTION
- S.S.D. - SHIP SECTION DIMENSION
- TYP. - TYPICAL
- U.N.C. - UNLESS NOTED OTHERWISE
- DIM. - DIMENSION
- FLG. - FLANGE
- D - SUBSTRATE DEPTH
- SUB. -SUBSTRATE

**DRAWING INDEX:**

- SHEET 01 - NOTES, PARTS LIST & DRAWING INDEX
- SHEET 02 - ASSEMBLY 'A' & SECTION VIEWS
- SHEET 03 - LOUVER CONNECTION & INSTALL DETAILS
- SHEET 04 - ALTERNATE ATTACHMENT DETAILS
- SHEET 05 - ASSEMBLY 'B' INSTALL CHANNEL & SECTION VIEWS
- SHEET 06 - SHAPES & NOTES
- SHEET 07 - ASSEMBLY 'C' & DETAILS
- SHEET 08 - ASSEMBLY 'C' SHAPED LOUVER CONNECTION & INSTALL DETAILS
- SHEET 09 - ASSEMBLY 'D' & DETAILS
- SHEET 10 - INSTALL CHANNEL DETAILS
- SHEET 11 - PARTS
- SHEET 12 - PARTS
- SHEET 13 - PARTS & FASTENER TABLES



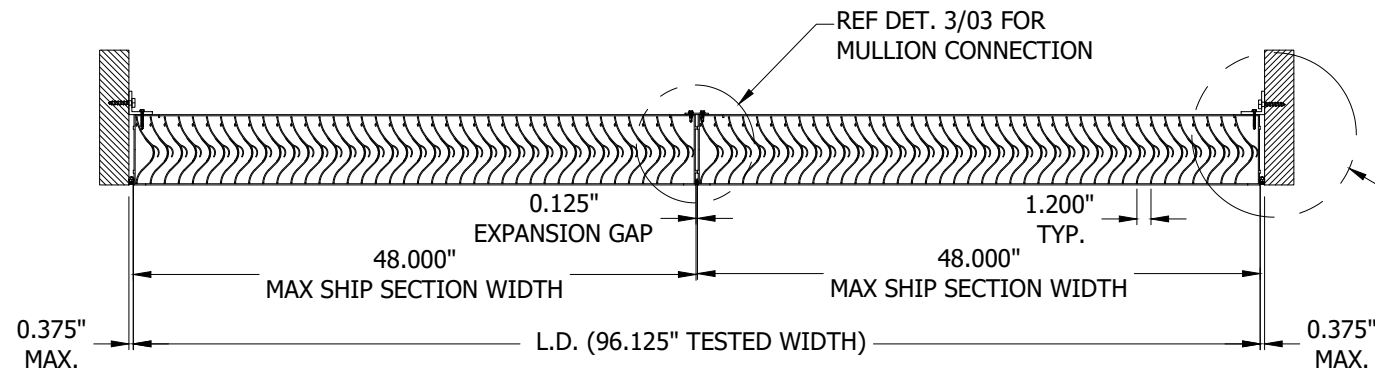
TOLERANCES			
DECIMAL DIMENSIONS:	3 PLACE .XXX ±.010	2 PLACE .XX ±.020	FRACTION DIMENSIONS: ±1/16
ANGLE DIMENSIONS ±2°	USE WIG-007 & 008 UNLESS SPECIFIED OTHERWISE		

DWN. BY:	CHK. BY:	APPV'D. BY:	APPV'D. DATE:
GSL	VMA		
3-13-98	3-16-18		

REV. LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D BY:	APPV'D. BY:	ECN	DATE
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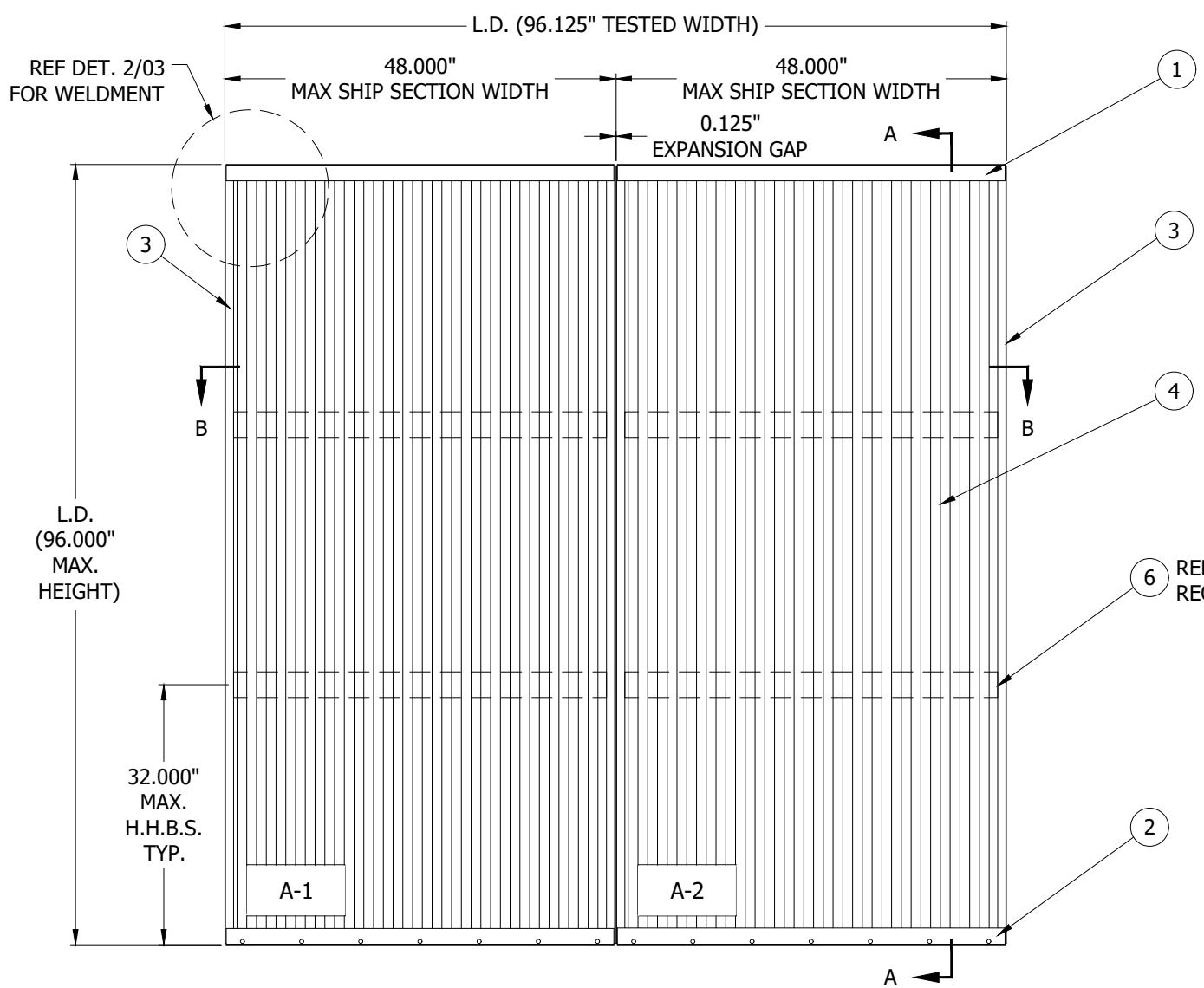


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PLOT SCALE: NONE  
REV. A SHEET 1 OF 13  
DWG. NO. 60-022424-00D



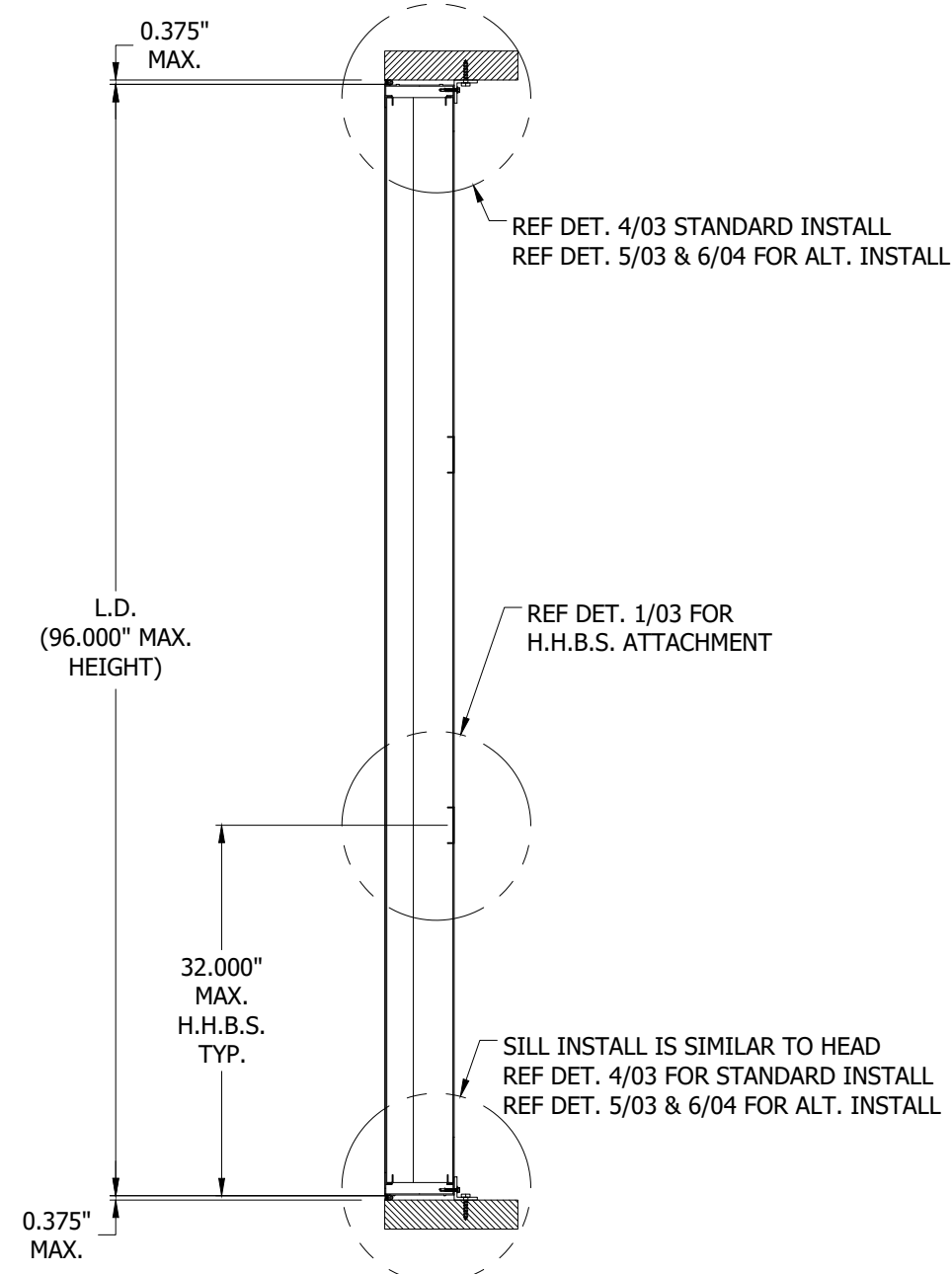
**SECTION B-B**  
N.T.S.

JAMB INSTALL  
REF DET. 7/04 FOR STANDARD INSTALL  
REF DET. 8 & 9/04 FOR ALT. INSTALL



**ASSEMBLY 'A' CHANNEL FRAME LOUVER**  
N.T.S.

FRONT VIEW



**SECTION A-A**  
N.T.S.

REF DET. 4/03 STANDARD INSTALL  
REF DET. 5/03 & 6/04 FOR ALT. INSTALL

REF DET. 1/03 FOR  
H.H.B.S. ATTACHMENT

SILL INSTALL IS SIMILAR TO HEAD  
REF DET. 4/03 FOR STANDARD INSTALL  
REF DET. 5/03 & 6/04 FOR ALT. INSTALL



MELISSA M. MASSAR, P.E.  
NO. 132158

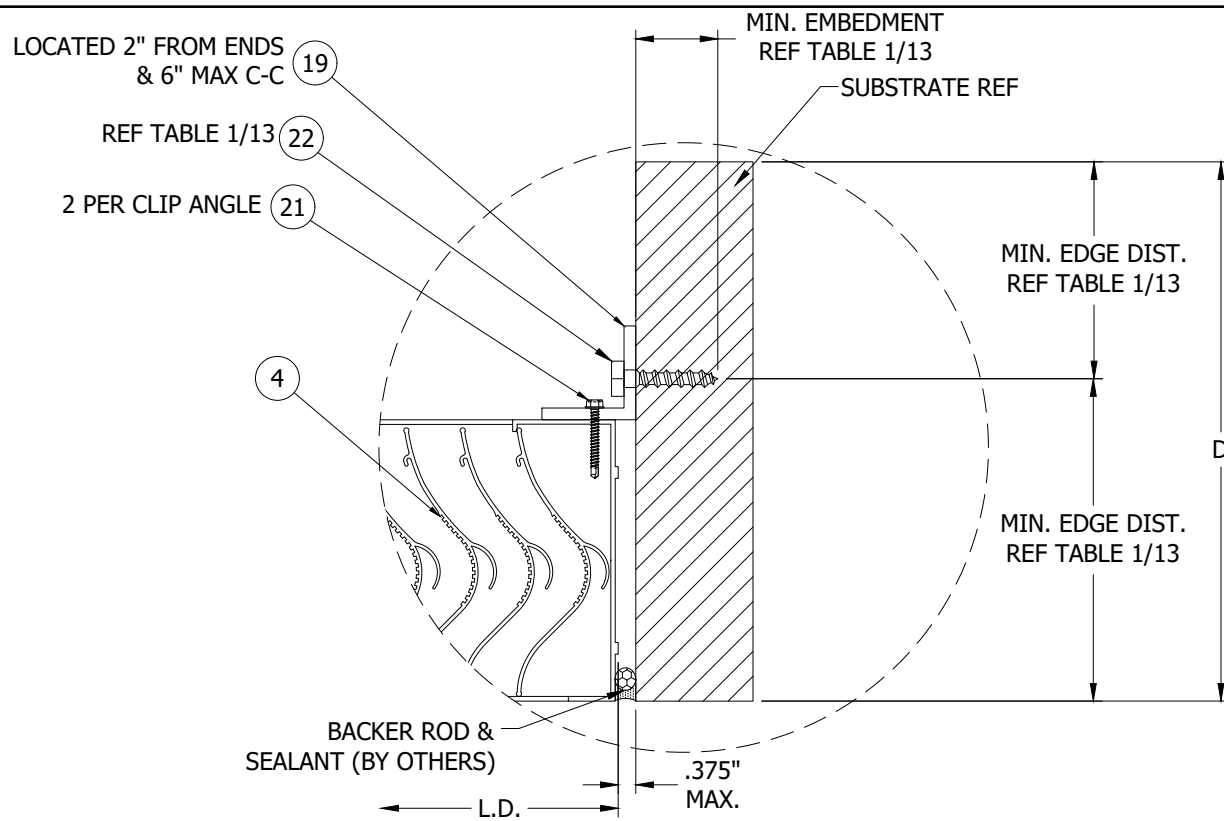
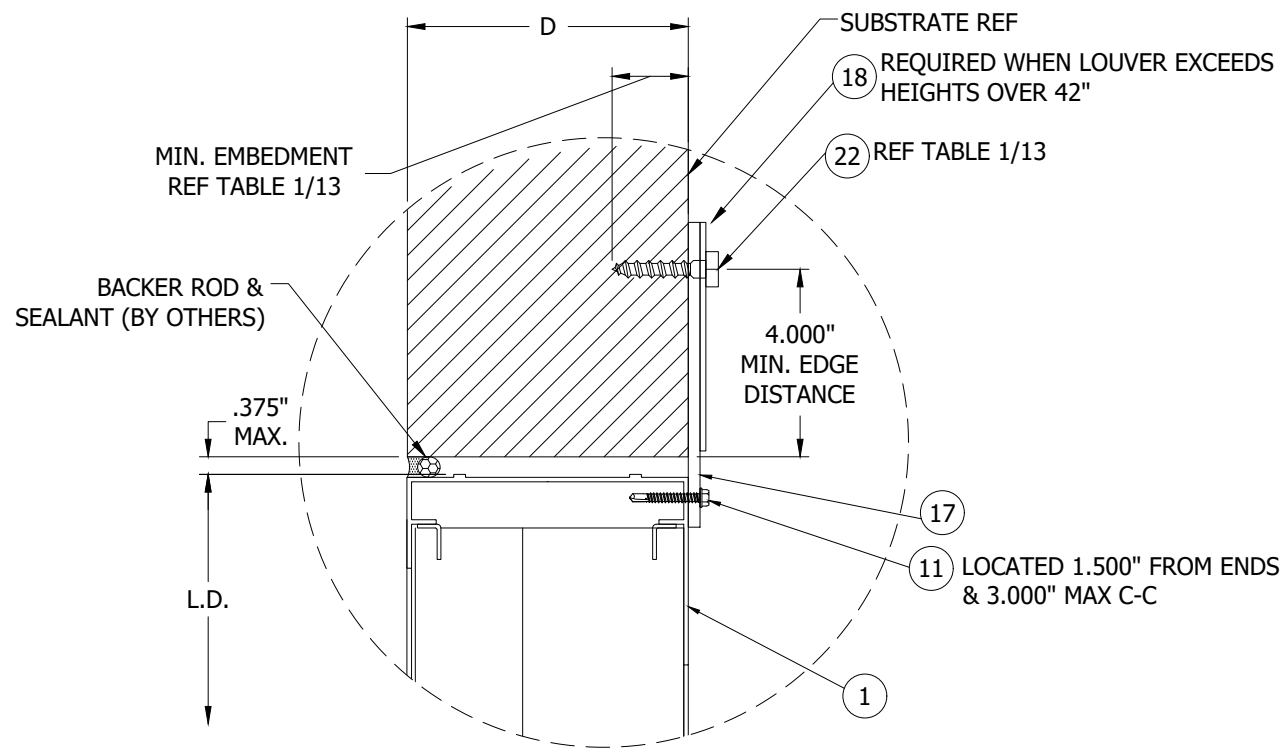
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REV. LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D BY:	APPV'D. BY:	ECN	DATE
		<small>3900 DR. GREAVES RD GRANDVIEW, MO 64030</small>		PLOT SCALE NONE ECN:		
TITLE EME6625D INSTALLATION		REV. A DWG. NO.		SHEET 2 OF 13 60-022424-00D		

**TOLERANCES**  
DECIMAL DIMENSIONS:  
3 PLACE .XXX ±.010  
2 PLACE .XX ±.020  
FRACTION DIMENSIONS: ±1/16  
ANGLE DIMENSIONS ±2°  
USE WIQ-007 & 008  
UNLESS SPECIFIED OTHERWISE

DWN. BY: GSL  
DATE: 3-13-98  
CHK. BY: VMA  
DATE: 3-16-18  
APPV'D. BY:  
DATE:  
APPV'D. BY:  
DATE:

ASSEMBLY 'A' & SECTION VIEWS



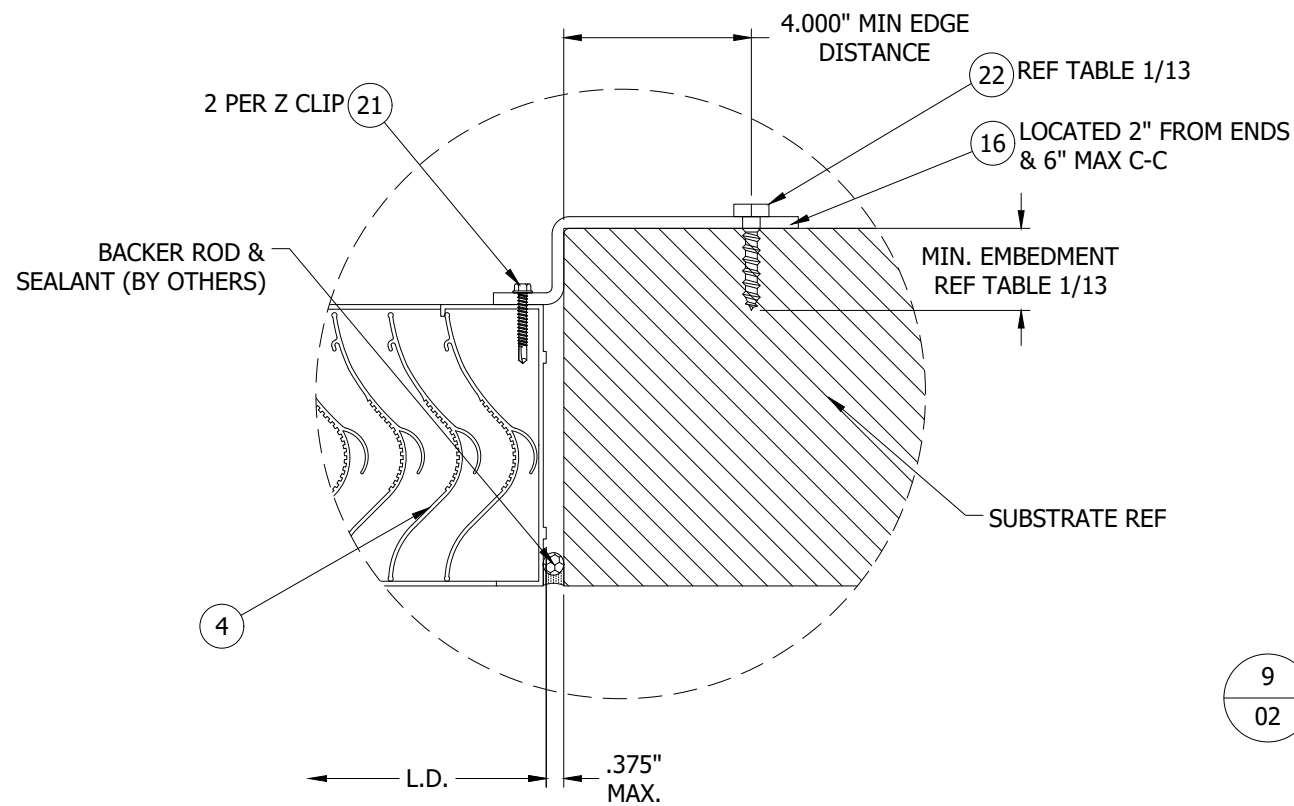


**6 ALTERNATE HEAD CONNECTION**

02 N.T.S.  
 NOTE: USED WHEN MIN. EDGE DISTANCE REQ'D FOR CONT. ANGLE INSTALL CANNOT BE MET. WHEN WALL DEPTH EQUAL TO DEPTH OF INTERIOR FACE OR LOUVER OFFSET IS FLUSH W/ INTERIOR WALL LOUVER SILL ATTACHMENT SIMILAR

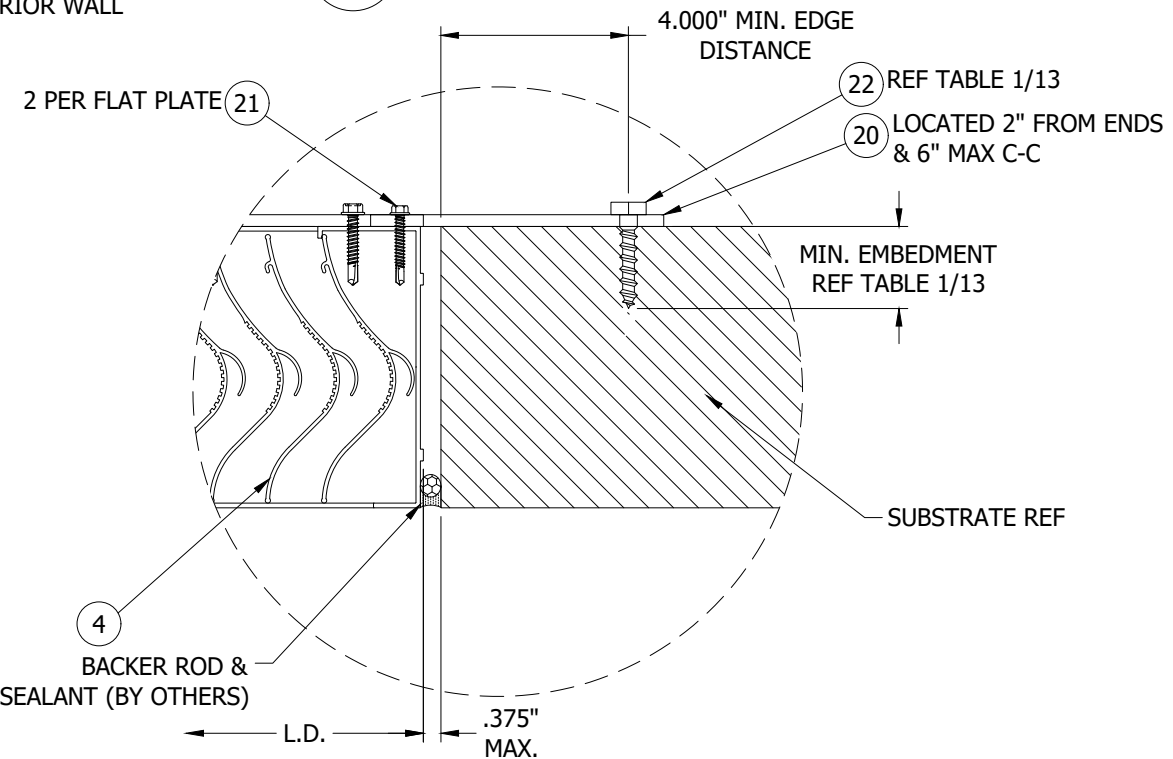
**7 INSTALLATION DETAIL @ JAMBS**

02 N.T.S.



**8 ALTERNATE JAMB CONNECTION**

02 N.T.S.  
 NOTE: USED WHEN MIN. EDGE DISTANCE REQ'D FOR CLIP ANGLE INSTALL CANNOT BE MET. WHEN WALL DEPTH EXCEEDS DEPTH OF LOUVER INTERIOR FACE



**9 ALTERNATE JAMB CONNECTION**

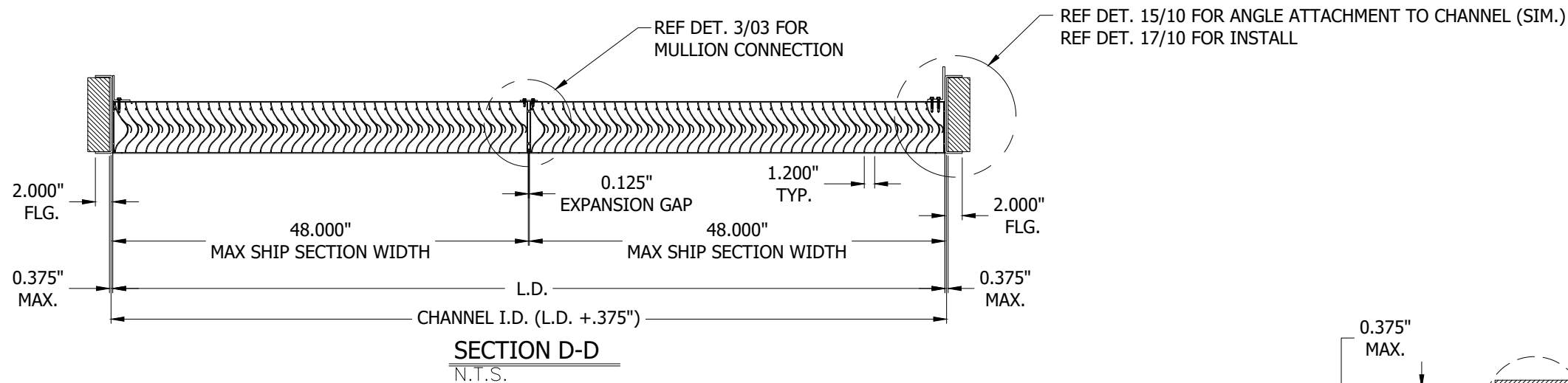
02 N.T.S.  
 NOTE: USED WHEN MIN. EDGE DISTANCE REQ'D FOR CLIP ANGLE INSTALL CANNOT BE MET. WHEN WALL DEPTH EQUAL DEPTH OF LOUVER INTERIOR FACE

MELISSA MASSAR  
 132158  
 LICENSED PROFESSIONAL ENGINEER  
 1/19/2021  
 MELISSA M. MASSAR, P.E.  
 NO. 132158

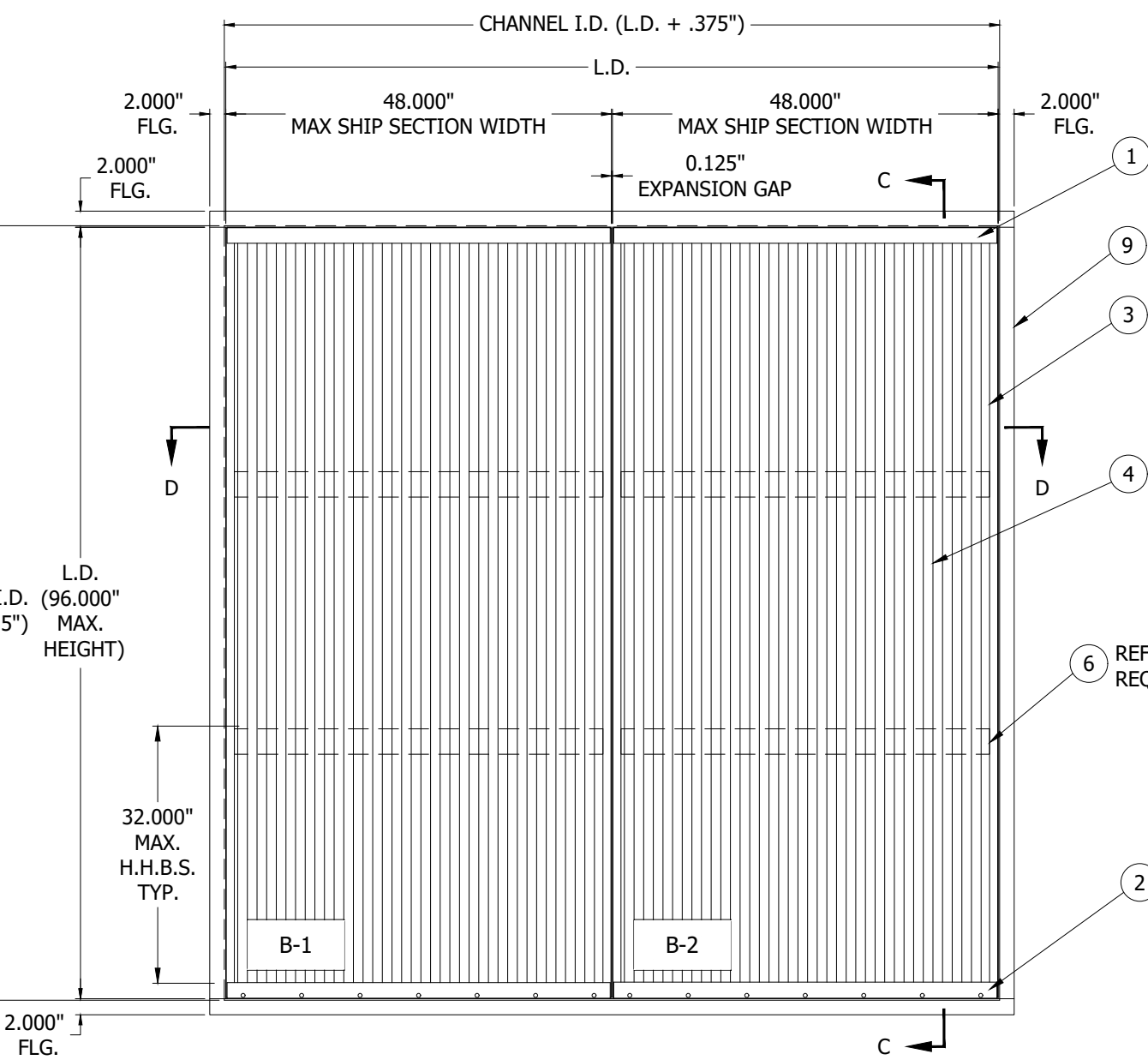
**TOLERANCES**  
 DECIMAL DIMENSIONS:  
 3 PLACE .XXX ±.010  
 2 PLACE .XX ±.020  
 FRACTION DIMENSIONS: ±1/16  
 ANGLE DIMENSIONS ±2°  
 USE WIG-007 & 008  
 UNLESS SPECIFIED OTHERWISE

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DATE: 3-13-98	DATE: 3-16-18	DATE:	DATE:

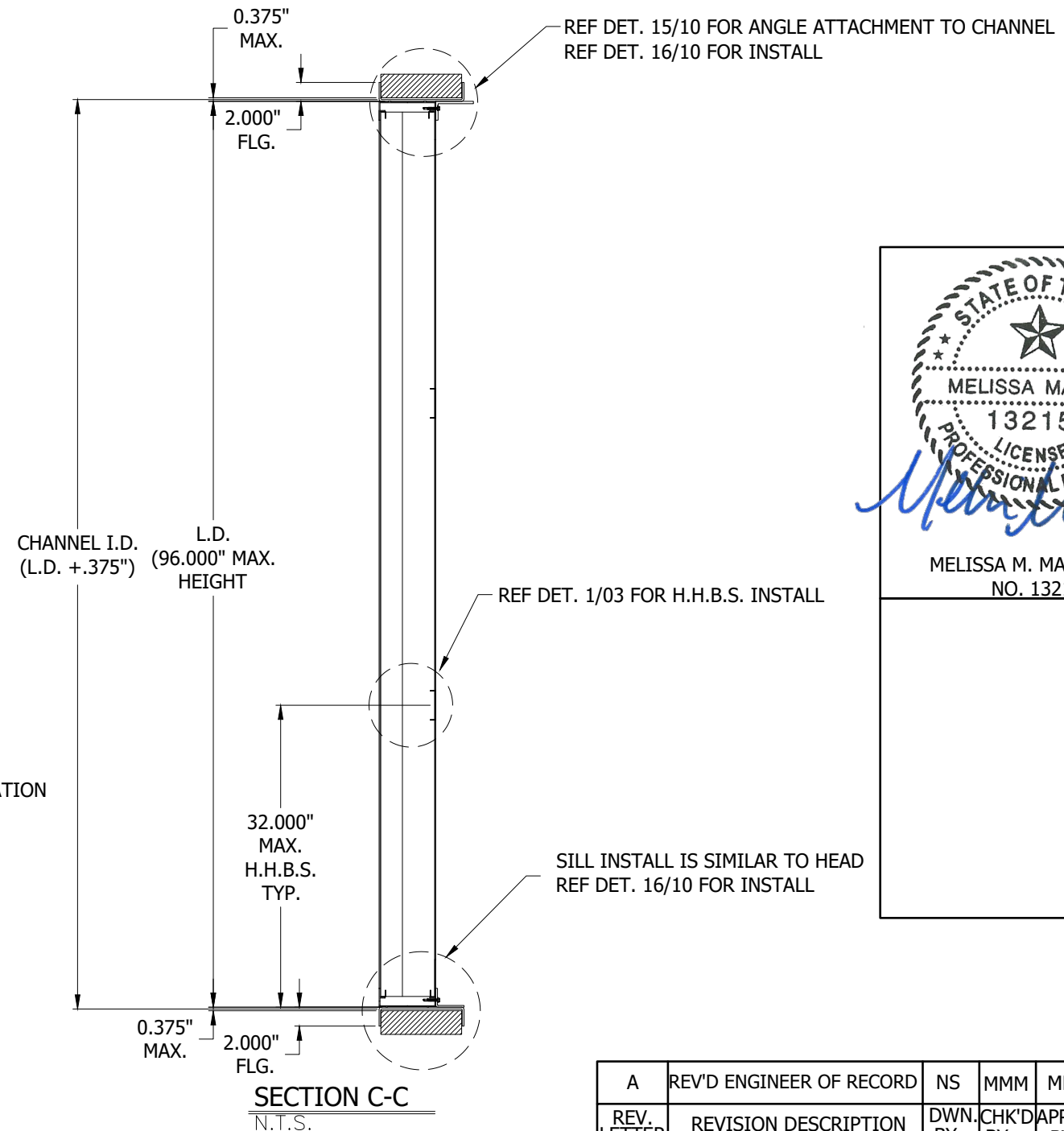
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TITLE		PLOT SCALE		ECN:		
EME6625D INSTALLATION		NONE		REV. A SHEET 4 OF 13		
DWG. NO.		60-022424-00D				



REF DET. 15/10 FOR ANGLE ATTACHMENT TO CHANNEL (SIM.)  
REF DET. 17/10 FOR INSTALL



ASSEMBLY 'B' INSTALL CHANNEL  
N.T.S.



REF DET. 15/10 FOR ANGLE ATTACHMENT TO CHANNEL  
REF DET. 16/10 FOR INSTALL

REF DET. 1/03 FOR H.H.B.S. INSTALL

SILL INSTALL IS SIMILAR TO HEAD  
REF DET. 16/10 FOR INSTALL

MELISSA M. MASSAR, P.E.  
NO. 132158

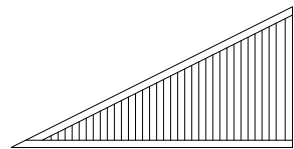
**TOLERANCES**  
DECIMAL DIMENSIONS:  
3 PLACE .XXX ±0.10  
2 PLACE .XX ±0.20  
FRACTION DIMENSIONS: ±1/16  
ANGLE DIMENSIONS ±2°  
USE WIQ-007 & 008  
UNLESS SPECIFIED OTHERWISE

DWN. BY: GSL	CHK. BY: VMA	APPV'D. BY:	APPV'D. BY:
DATE: 3-13-98	DATE: 3-16-18	DATE:	DATE:

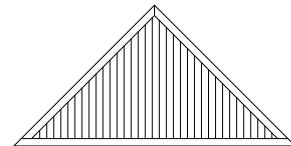
ASSEMBLY "B" INSTALL CHANNEL  
& SECTION VIEWS

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TITLE		PLOT SCALE		ECN:		
EME6625D INSTALLATION		NONE		REV. A SHEET 5 OF 13		
		3900 DR. GREAVES RD GRANDVIEW, MO 64030		DWG. NO. 60-022424-00D		

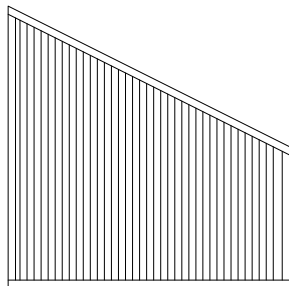
# AVAILABLE SHAPES



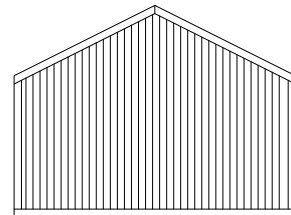
**HALF TRIANGLE** SHAPE A OR B  
N.T.S.  
NOTE: CAN BE RIGHT OR LEFT HAND



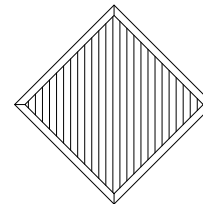
**PYRAMID** SHAPE E  
N.T.S.



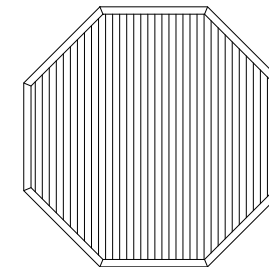
**TRIANGLE TOP** SHAPE C OR D  
N.T.S.  
NOTE: CAN BE RIGHT OR LEFT HAND



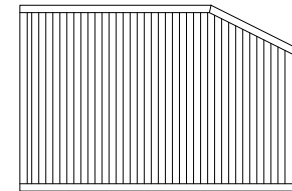
**HOUSE** SHAPE F  
N.T.S.



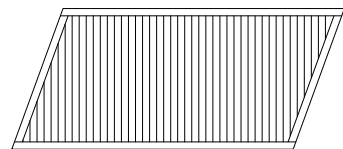
**DIAMOND** SHAPE G  
N.T.S.



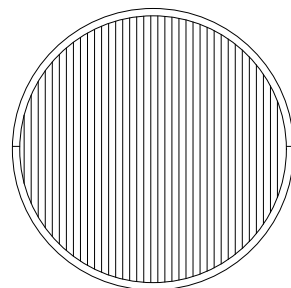
**OCTAGON** SHAPE L  
N.T.S.



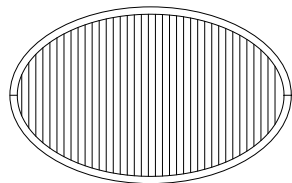
**CORNER** SHAPE J OR K  
N.T.S.  
NOTE: CAN BE RIGHT OR LEFT HAND  
RIGHT BOTTOM OR LEFT BOTTOM



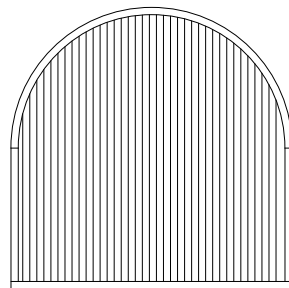
**PARALLELOGRAM** SHAPE H  
N.T.S.



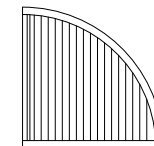
**ROUND** SHAPE A  
N.T.S.  
(AS TESTED)



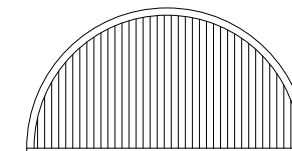
**OVAL** SHAPE G  
N.T.S.



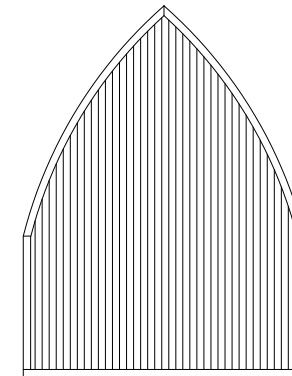
**ROUND TOP** SHAPE E  
N.T.S.



**QUARTER ROUND** SHAPE C OR D  
N.T.S.  
NOTE: CAN BE RIGHT OR LEFT HAND



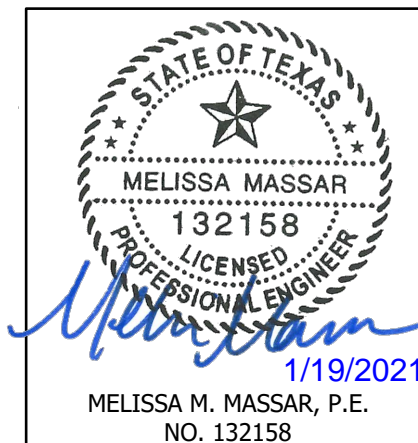
**HALF ROUND** SHAPE H OR B  
N.T.S.  
NOTE: CAN BE TOP OR BOTTOM



**GOTHIC** SHAPE F  
N.T.S.

**NOTES:**

1. ALL LOUVER SHAPES TO BE CONSTRUCTED AS SHOWN ON FOLLOWING SHEETS. (ELT & ELR)
2. MAXIMUM SINGLE SECTION SIZE 48" WIDE X 96" HIGH. UNLIMITED WIDTH CAN BE ACCOMPLISHED BY PLACING SINGLE SECTIONS SIDE BY SIDE.
3. EXTRUDED ALUMINUM H.H.B.S. CHANNEL TO BE NOTCHED TO FIT OVER JAMB FRAMES & TO FIT BETWEEN EACH BLADE. H.H.B.S. CHANNEL TO BE WELDED TO EACH BLADE AND TO JAMB FRAMES. H.H.B.S. CHANNEL IS REQUIRED FOR ANY LOUVER ASSEMBLY EXCEEDING 32" IN HEIGHT EQUALLY SPACED BETWEEN HEAD AND SILL. TWO H.H.B.S. ARE TO BE POSITIONED EQUALLY SPACED BETWEEN HEAD & SILL WHEN SPAN IS OVER 64" IN HEIGHT.
4. VISIBLE MULLIONS REQUIRED AT EVERY 48" IN WIDTH.



**TOLERANCES**  
DECIMAL DIMENSIONS:  
3 PLACE .XXX ±.010  
2 PLACE .XX ±.020  
FRACTION DIMENSIONS: ±1/16  
ANGLE DIMENSIONS ±2°  
USE WIQ-007 & 008  
UNLESS SPECIFIED OTHERWISE

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DATE: 3-13-98	DATE: 3-16-18	DATE:	DATE:

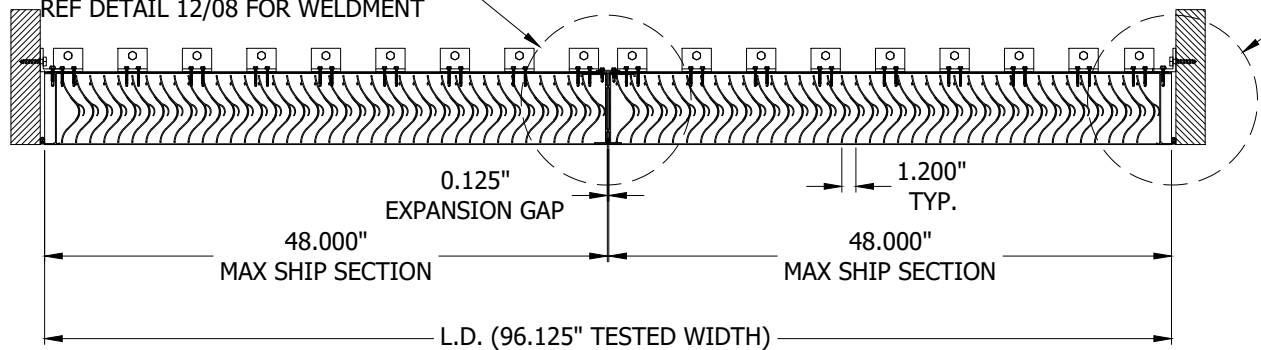
SHAPES & NOTES

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		3900 DR. GREAVES RD GRANDVIEW, MO 64030		PLOT SCALE NONE ECN:		
TITLE EME6625D INSTALLATION		REV. A DWG. NO.		SHEET 6 OF 13 60-022424-00D		

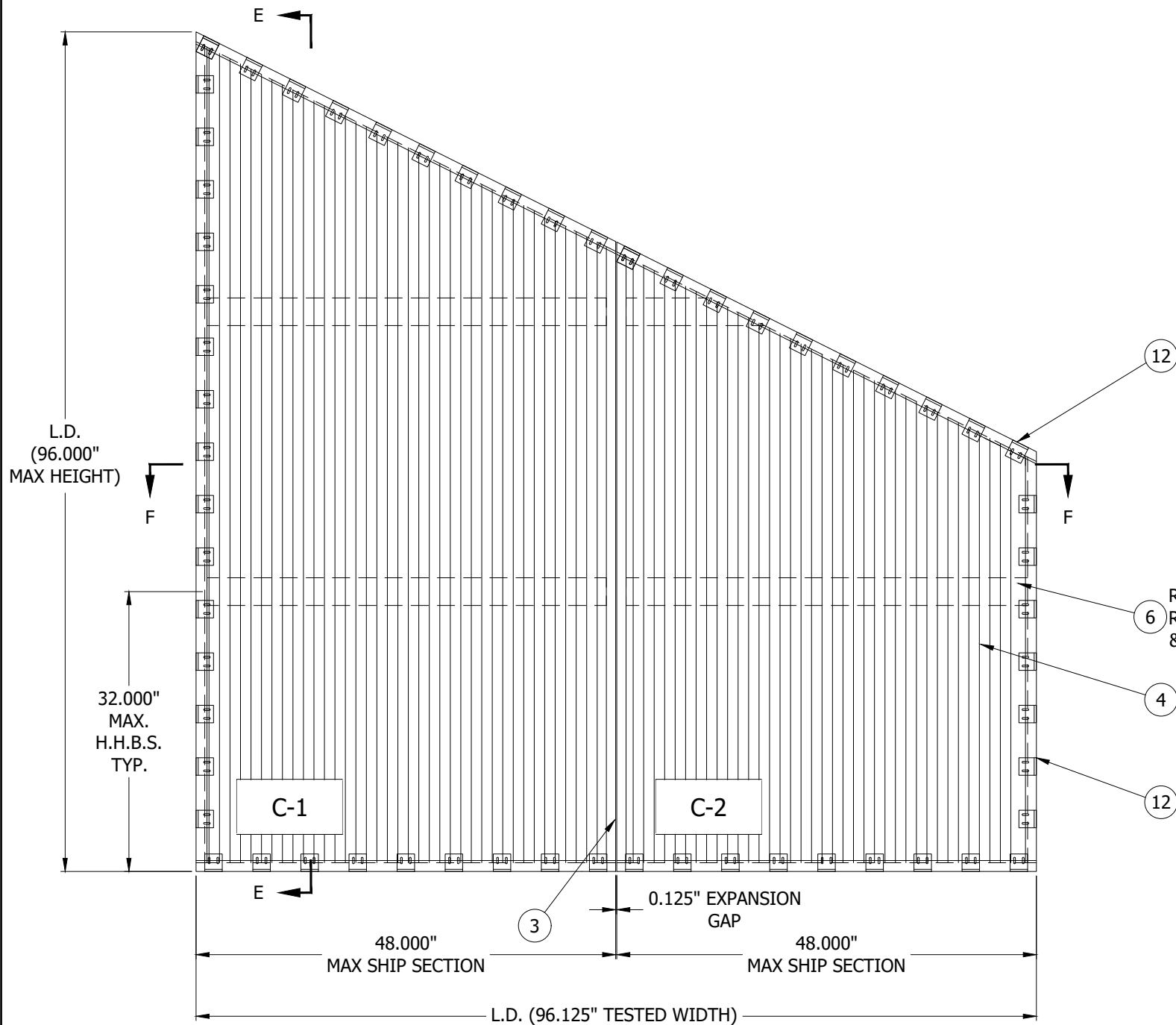
REF DET. 13/08 FOR ATTACHMENT DETAIL  
REF DET. 12/08 FOR WELDMENT

REF DET. 14/08 FOR ATTACHMENT DETAIL

REF DET. 10/08 FOR ATTACHMENT & WELDMENT  
DETAIL TYPICAL @ EACH BLADE



**SECTION F-F**  
N.T.S.



**ASSEMBLY 'C' SHAPED LOUVER**  
N.T.S.  
MAX SHIP SECTION 48" X 96".

(TRI TOP AS TESTED)

L.D.  
(96.000" MAX.  
HEIGHT)

32.000"  
MAX.  
H.H.B.S.  
TYP.

**SECTION E-E**  
N.T.S.

REF DET. 11/08 FOR WELDMENT DETAIL

REF DET. 10/08 FOR ATTACHMENT & WELDMENT  
DETAIL TYPICAL @ EACH BLADE (SIM.)



REF. NOTE 3/06 FOR  
REQUIREMENT  
& LOCATION

**TOLERANCES**  
DECIMAL DIMENSIONS:  
3 PLACE .XXX ±0.10  
2 PLACE .XX ±0.20  
FRACTION DIMENSIONS: ±1/16  
ANGLE DIMENSIONS ±2°  
USE WIQ-007 & 008  
UNLESS SPECIFIED OTHERWISE

DWN. BY: GSL	CHK. BY: VMA	APPV'D. BY:	APPV'D. BY:
DATE: 3-13-98	DATE: 3-16-18	DATE:	DATE:

ASSEMBLY 'C' & DETAILS

**RUSKIN**  
3900 DR. GREAVES RD.  
GRANDVIEW, MO 64030  
AUTORITY IN AIR MOUNTING

TITLE  
EME6625D  
INSTALLATION

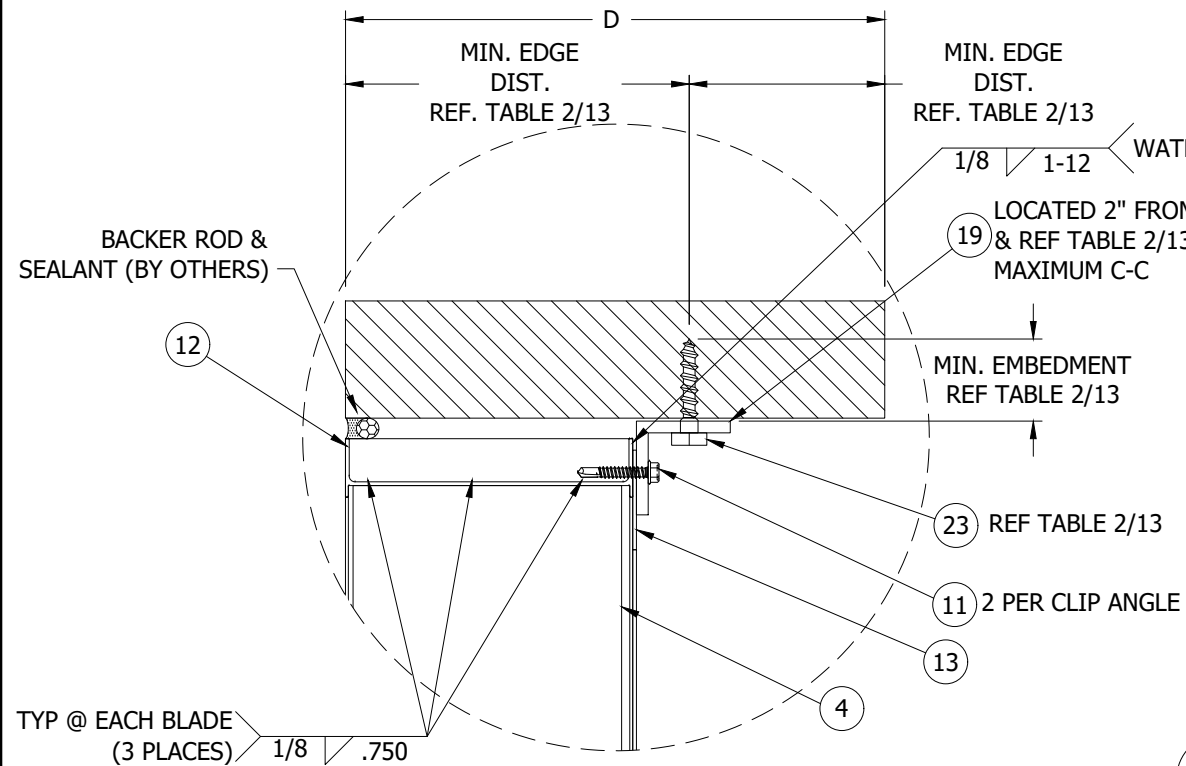
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REV. LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D BY:	APPV'D. BY:	ECN	DATE
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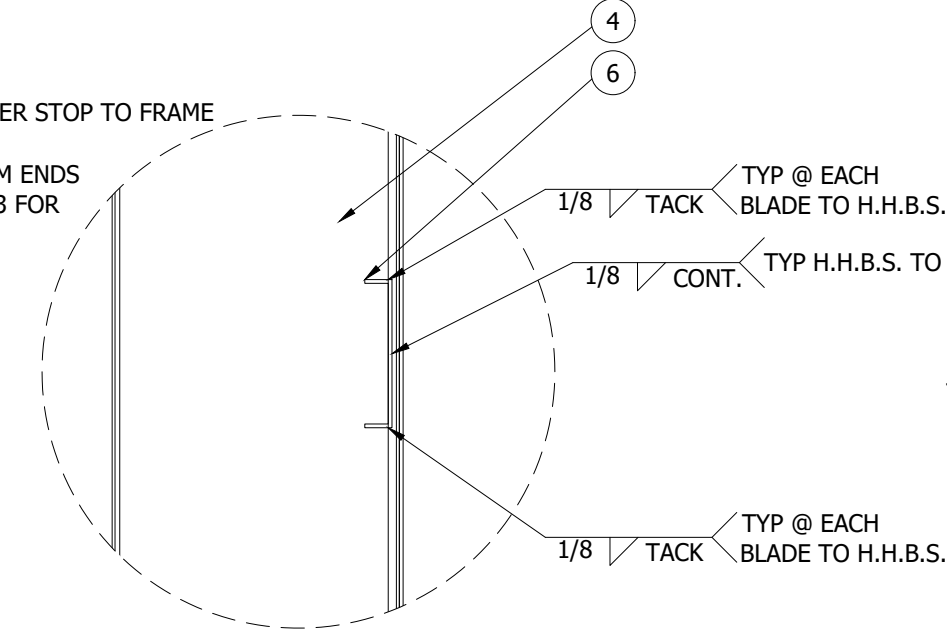
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REV. A	SHEET 7 OF 13
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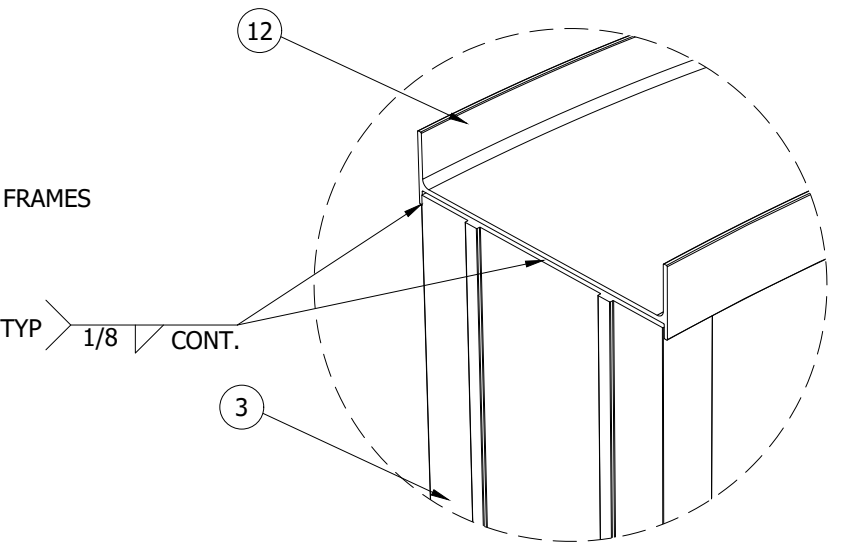
DWG. NO.  
60-022424-00D



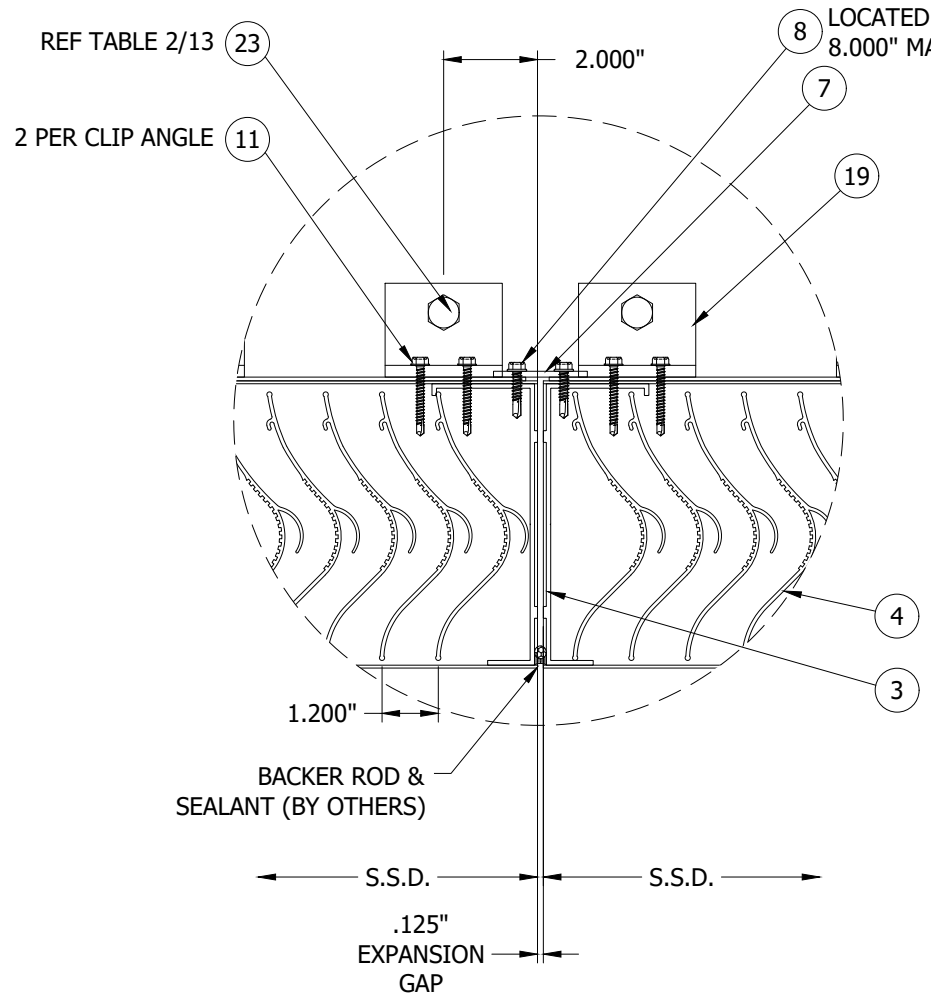
10 HEAD CONNECTION & WELDMENT DETAIL  
07 N.T.S.



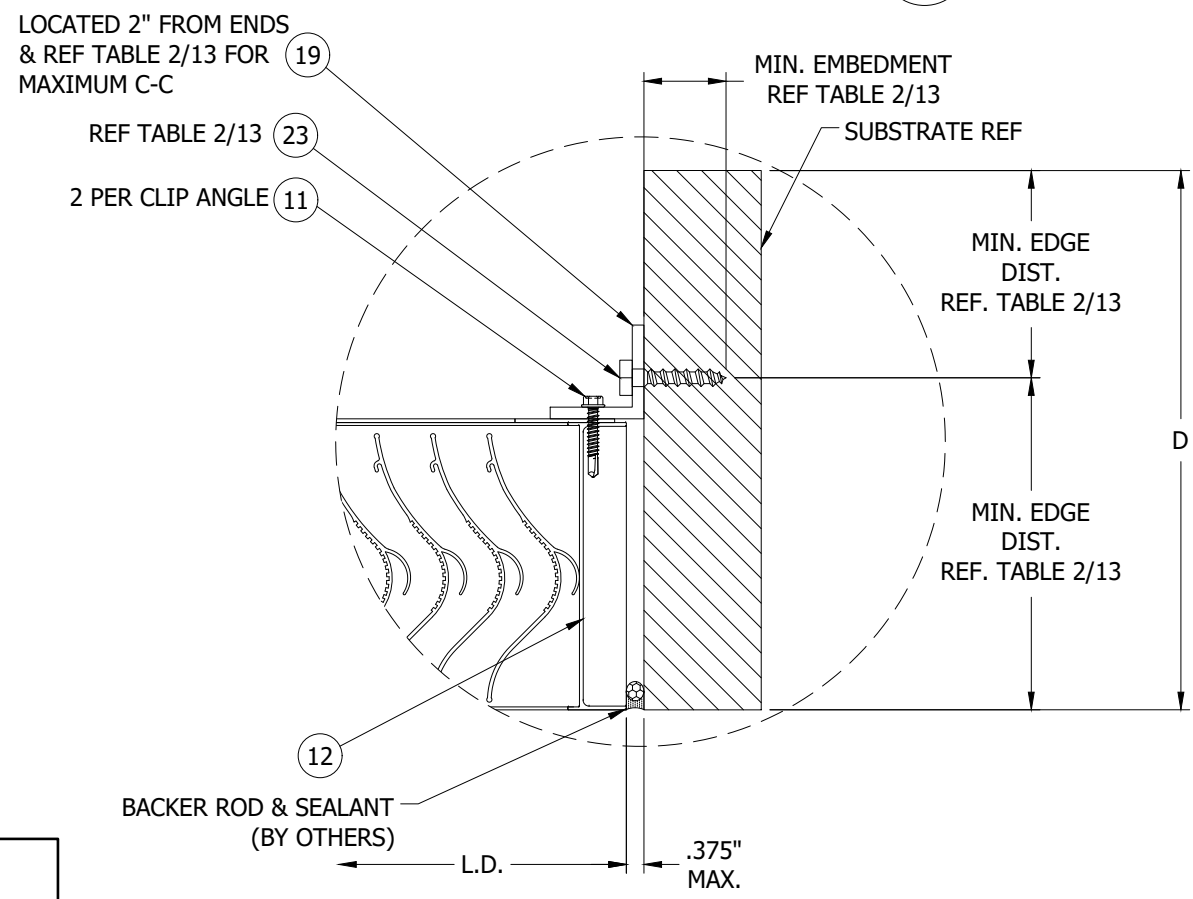
11 H.H.B.S. WELDMENT DETAIL  
07,09 N.T.S.



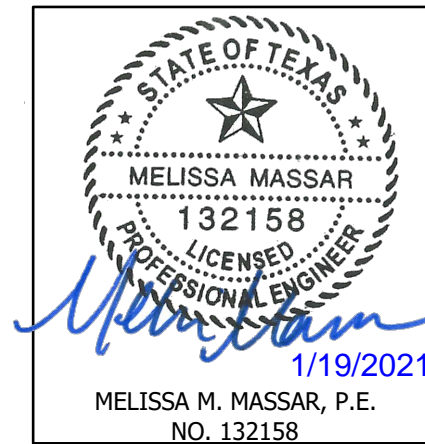
12 MULLION FRAME WELDMENT DETAIL  
07 N.T.S.



13 MULLION ATTACHMENT DETAIL  
07 N.T.S.



14 LOUVER ATTACHMENT DETAIL  
07 N.T.S.



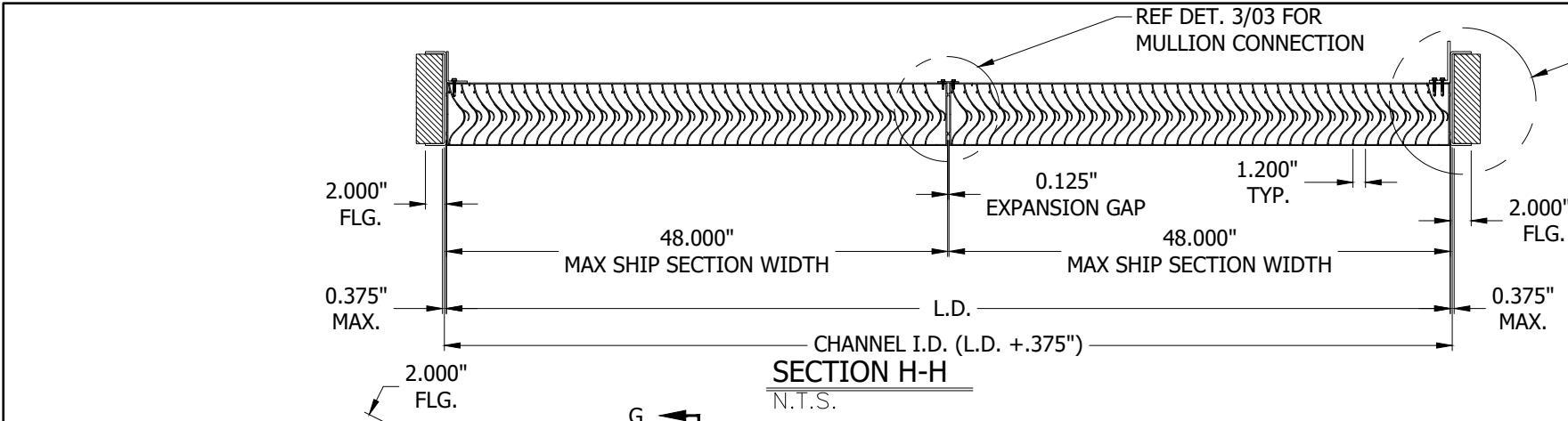
**TOLERANCES**  
DECIMAL DIMENSIONS:  
3 PLACE .XXX ±.010  
2 PLACE .XX ±.020  
FRACTION DIMENSIONS: ±1/16  
ANGLE DIMENSIONS ±2°  
USE WIG-007 & 008  
UNLESS SPECIFIED OTHERWISE

DWN. BY: GSL	CHK. BY: VMA	APPV'D. BY:	APPV'D. BY:
DATE: 3-13-98	DATE: 3-16-18	DATE:	DATE:

ASSEMBLY "C" SHAPED LOUVER CONNECTION & INSTALL DETAILS

A	REV'D ENGINEER OF RECORD	NS	MMM	MMM	-	1/15/21
REV. LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D BY:	APPV'D. BY:	ECN	DATE
TITLE		PLOT SCALE		REV. A SHEET 8 OF 13		
EME6625D INSTALLATION		NONE		DWG. NO. 60-022424-00D		

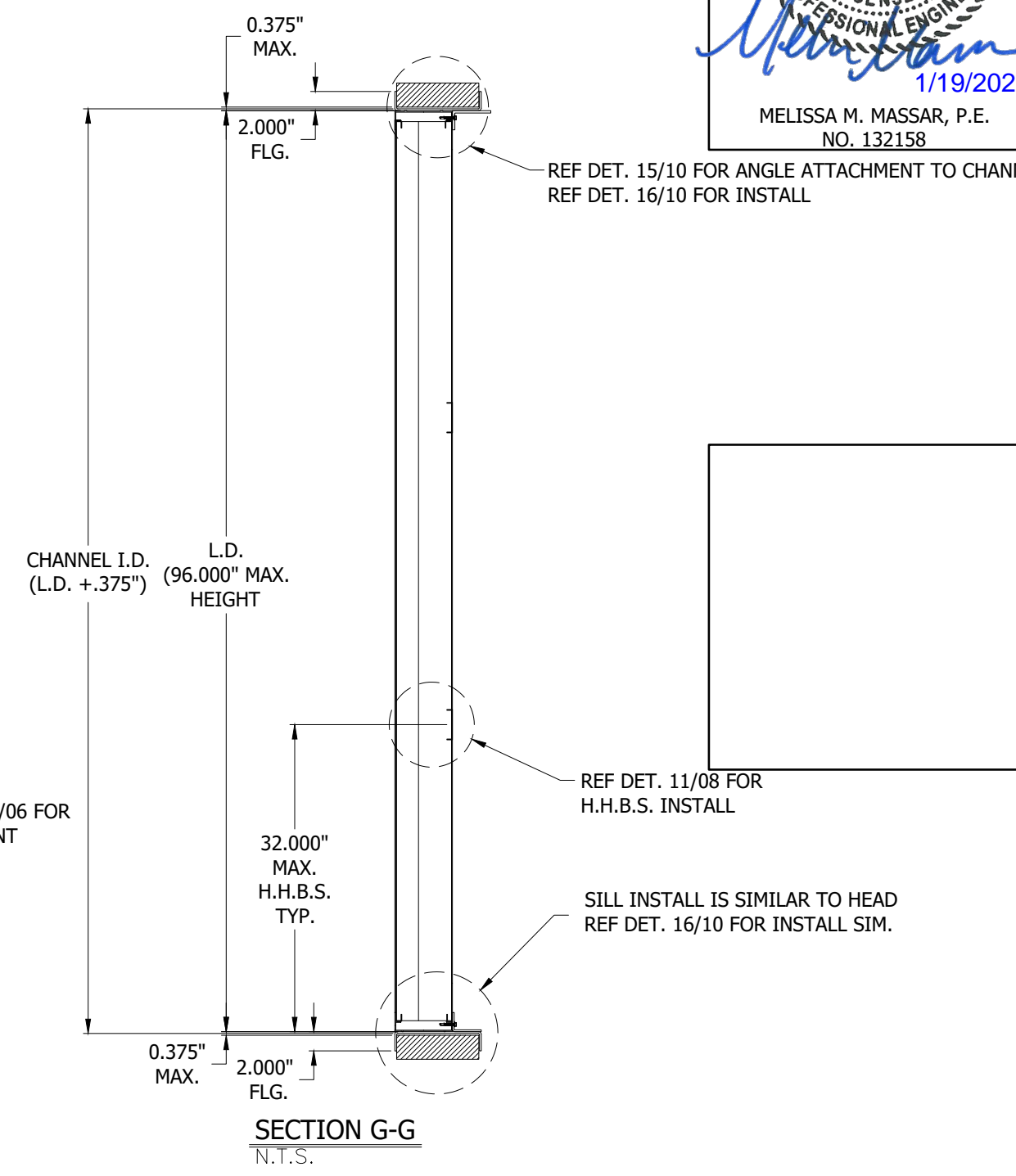
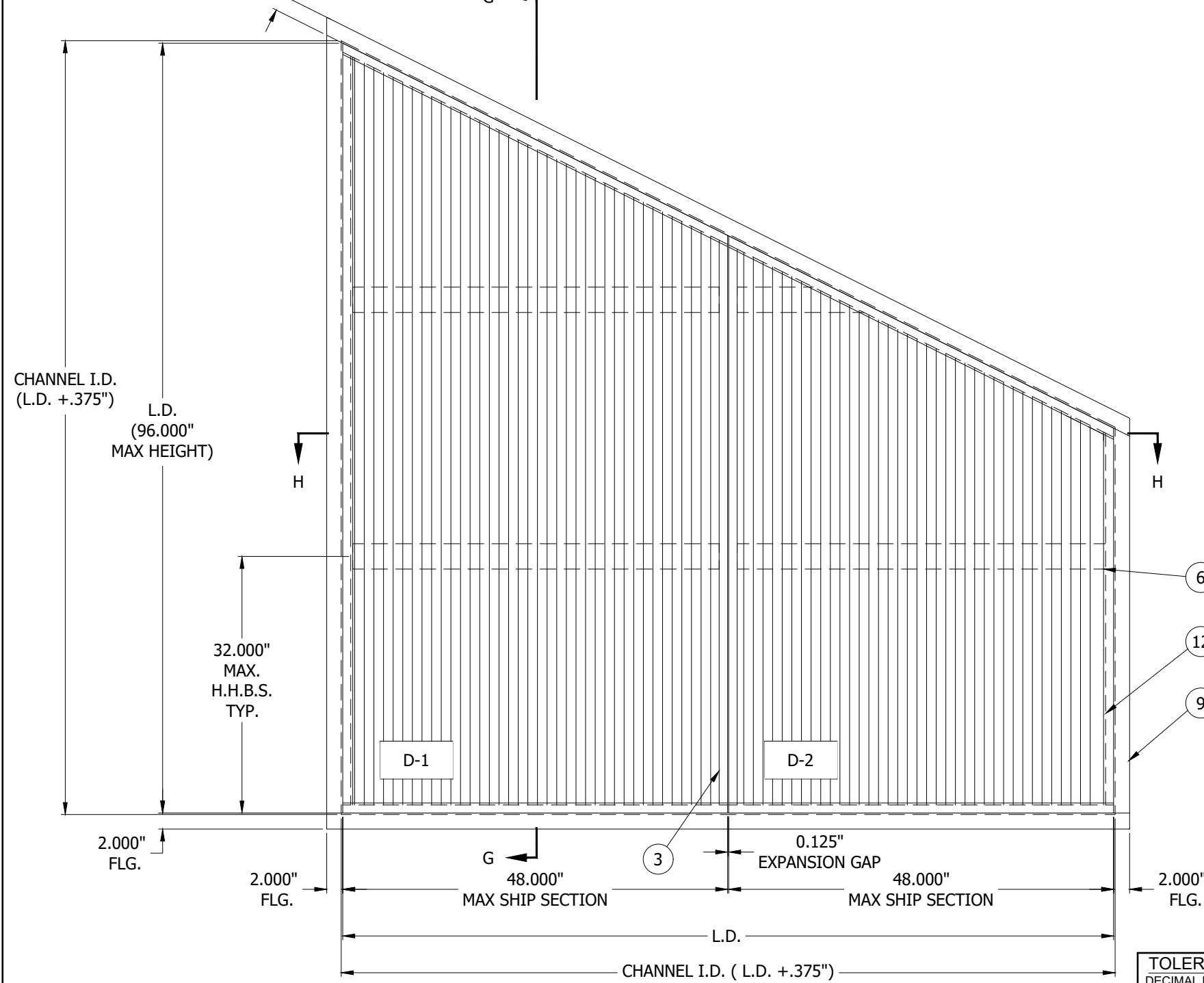




REF DET. 3/03 FOR MULLION CONNECTION

REF DET. 15/10 FOR ANGLE ATTACHMENT TO CHANNEL  
REF DET. 17/10 FOR INSTALL

MELISSA M. MASSAR, P.E.  
NO. 132158



**ASSEMBLY 'D' SHAPED INSTALL CHANNEL**  
N.T.S.

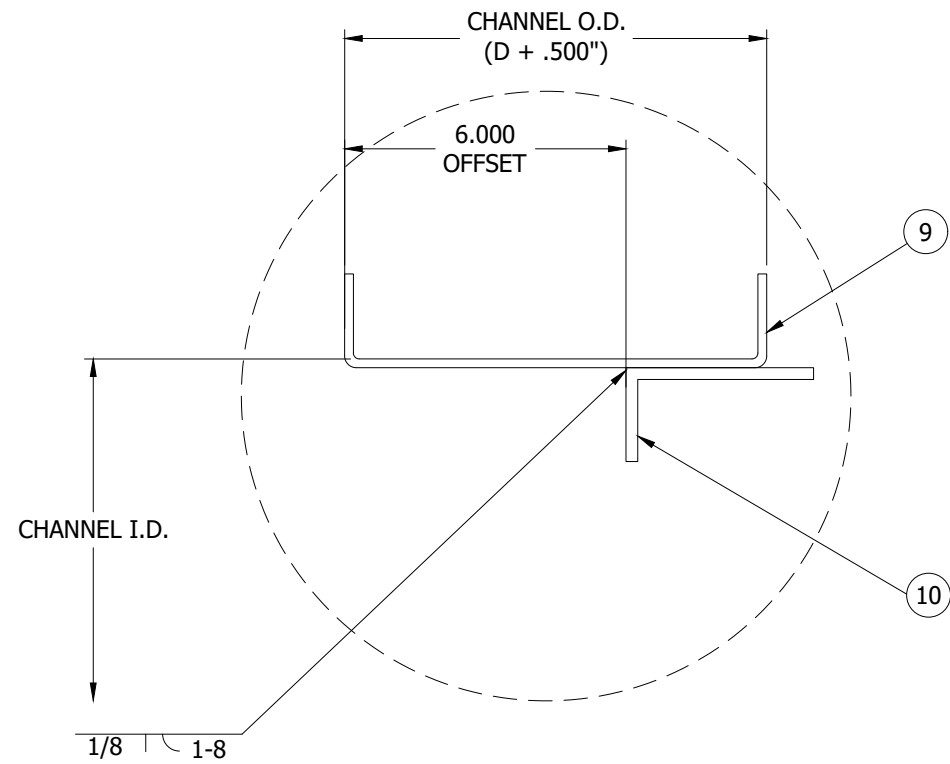
**TOLERANCES**  
DECIMAL DIMENSIONS:  
3 PLACE .XXX ±0.10  
2 PLACE .XX ±0.20  
FRACTION DIMENSIONS: ±1/16  
ANGLE DIMENSIONS ±2°  
USE WIG-007 & 008  
UNLESS SPECIFIED OTHERWISE

DWN. BY: GSL	CHK. BY: VMA	APPV'D. BY:	APPV'D. BY:
DATE: 3-13-98	DATE: 3-16-18	DATE:	DATE:

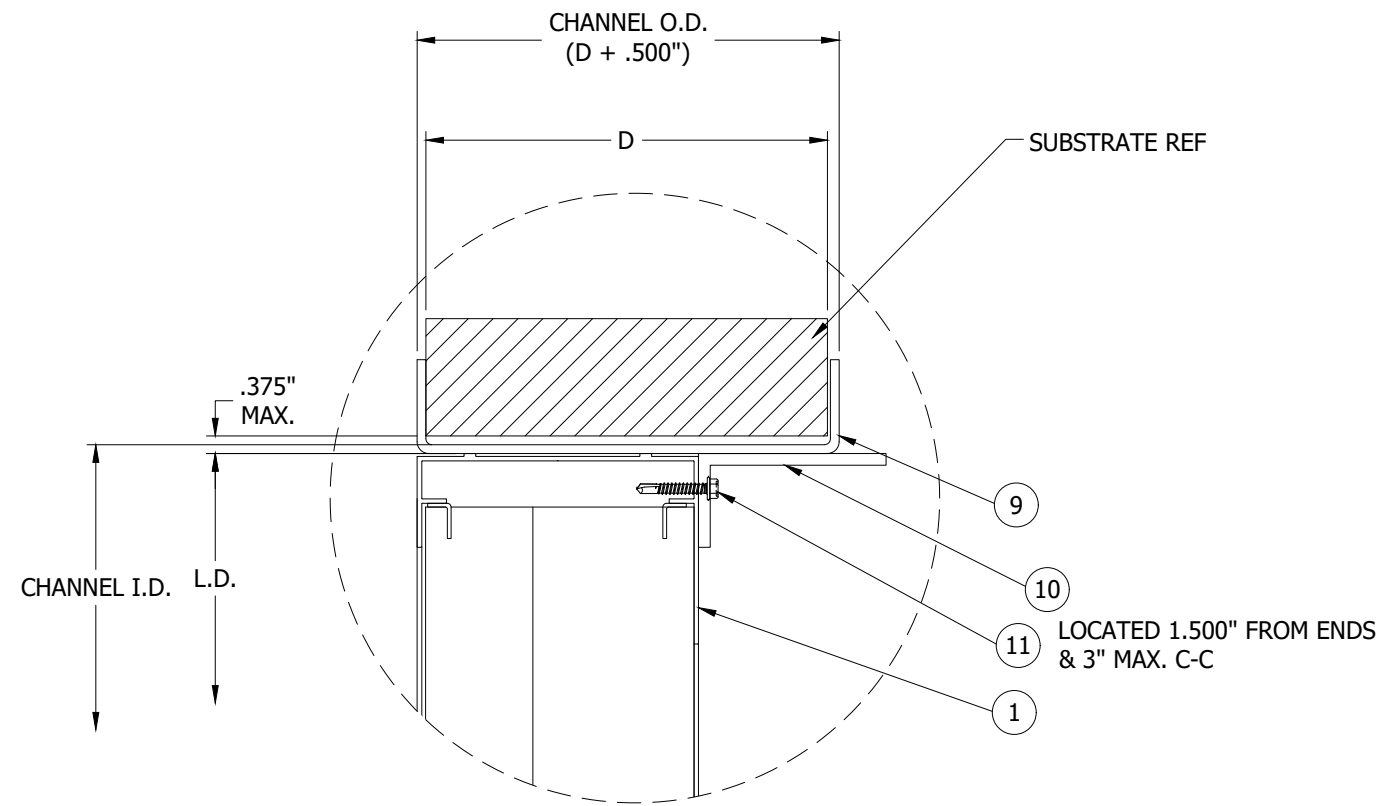
ASSEMBLY 'D' & DETAILS

A	REV'D ENGINEER OF RECORD	NS	MMM	MMM	-	1/15/21
REV. LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D BY:	APPV'D. BY:	ECN	DATE
TITLE		PLOT SCALE		ECN: _____		
EME6625D INSTALLATION		NONE		REV. A SHEET 9 OF 13		
		DWG. NO.		60-022424-00D		

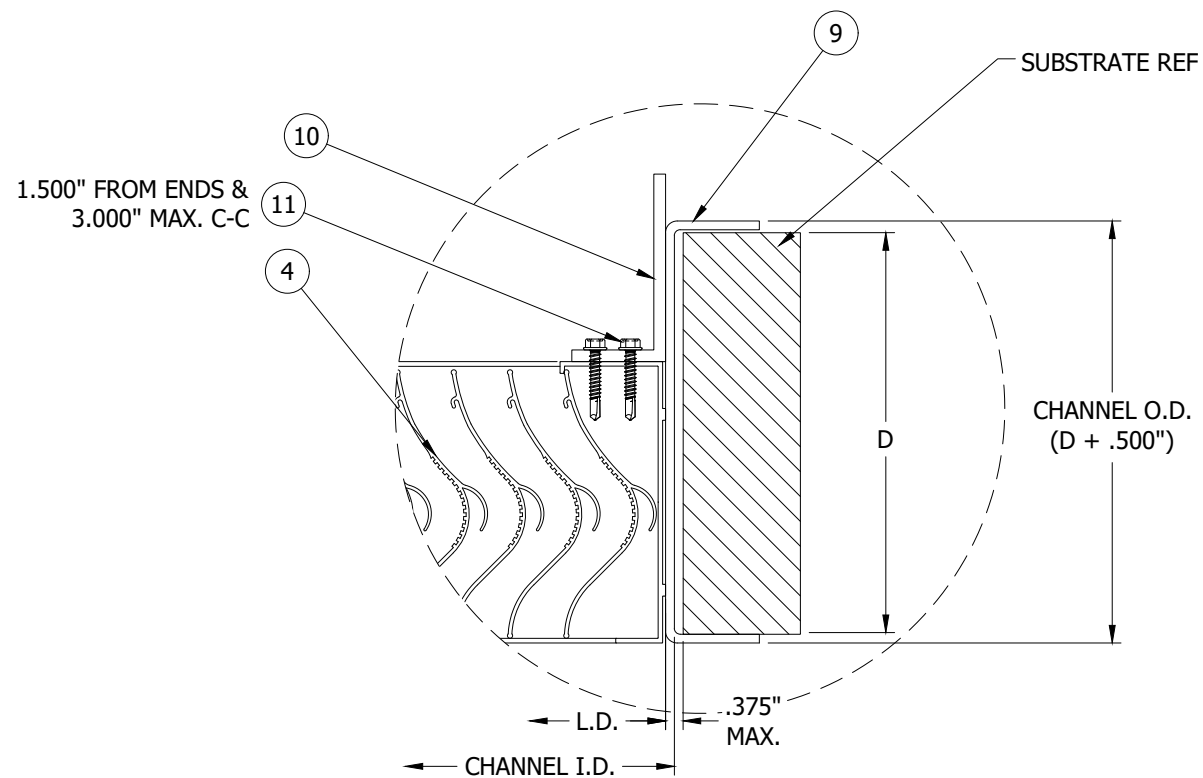




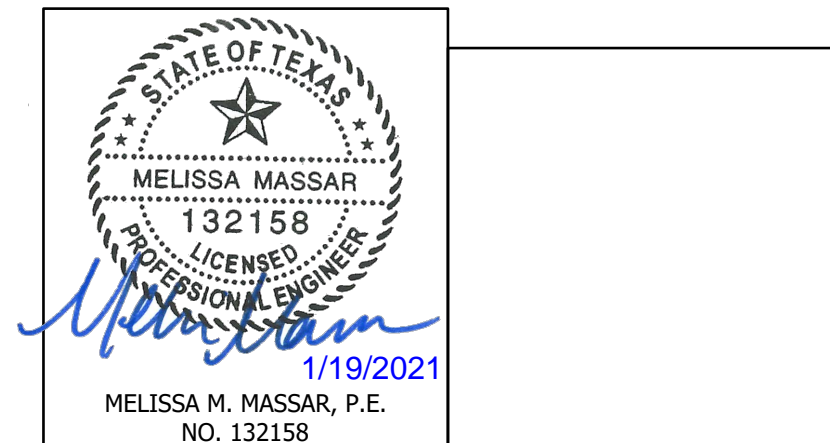
15 **INSTALL CHANNEL WELDING DETAIL**  
 05,09 N.T.S.  
 NOTE: TYP. @ PERIMETER LOUVER



16 **INSTALL CHANNEL CONNECTION DETAIL @ HEAD**  
 05,09 N.T.S.  
 LOUVER SILL ATTACHMENT SIMILAR

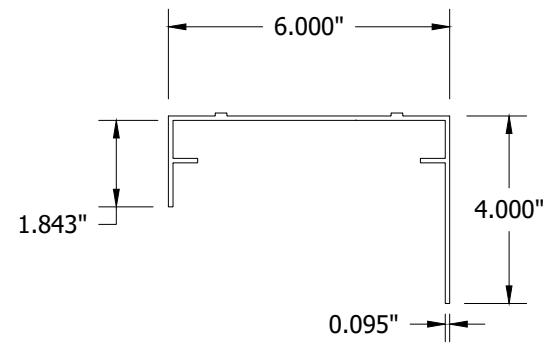


17 **INSTALL CHANNEL CONNECTION DETAIL @ JAMB**  
 05,09 N.T.S.



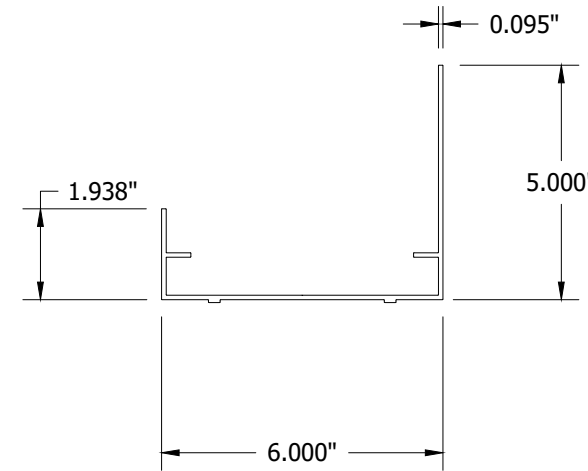
TOLERANCES DECIMAL DIMENSIONS: 3 PLACE .XXX ±.010 2 PLACE .XX ±.020 FRACTION DIMENSIONS: ±1/16 ANGLE DIMENSIONS ±2° USE WIQ-007 & 008 UNLESS SPECIFIED OTHERWISE	DWN. BY: GSL DATE: 3-13-98	CHK. BY: VMA DATE: 3-16-18	APPV'D. BY: DATE:	APPV'D. BY: DATE:
INSTALL CHANNEL DETAILS				

A	REV'D ENGINEER OF RECORD	NS	MMM	MMM	-	1/15/21
REV. LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D BY:	APPV'D. BY:	ECN	DATE
TITLE		PLOT SCALE		REV. A SHEET 10 OF 13		
EME6625D INSTALLATION		NONE		DWG. NO. 60-022424-00D		



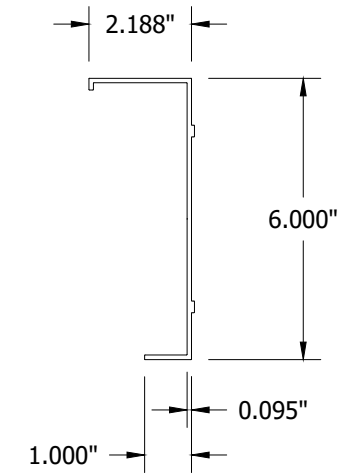
**ITEM 1 LOUVER HEAD FRAME**

N.T.S.  
RUSKIN PART# : 70-021995-00B



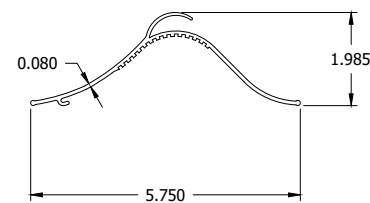
**ITEM 2 LOUVER SILL FRAME**

N.T.S.  
RUSKIN PART# : 70-022627-00B



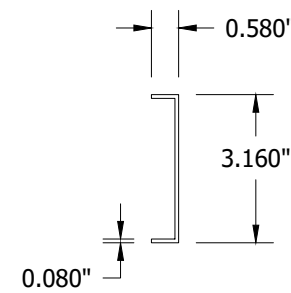
**ITEM 3 LOUVER JAMB FRAME**

N.T.S.  
RUSKIN PART# : 70-022227-00B



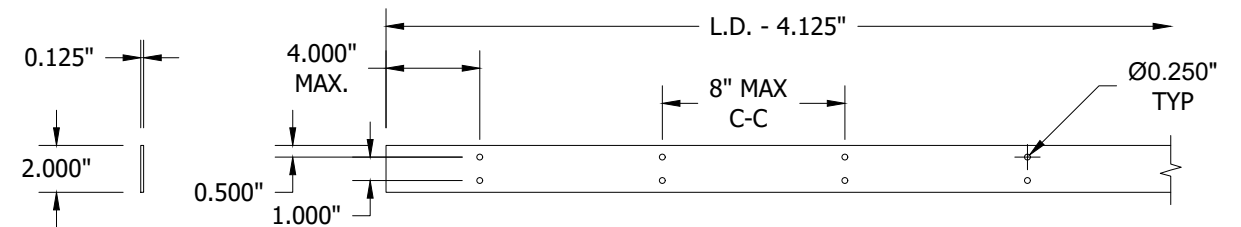
**ITEM 4 LOUVER BLADE**

N.T.S.  
RUSKIN PART# : 70-020748-00B



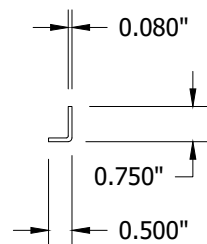
**ITEM 6 LOUVER H.H.B.S.**

N.T.S.  
RUSKIN PART# : RSM7001



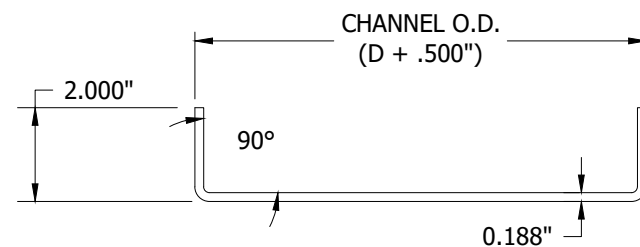
**ITEM 7 LOUVER MULLION SPLICE**

N.T.S.



**ITEM 5 LOUVER CORE ANGLE**

N.T.S.  
RUSKIN PART# : RSM7002



**ITEM 9 INSTALL CHANNEL**

N.T.S.



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NO. 132158

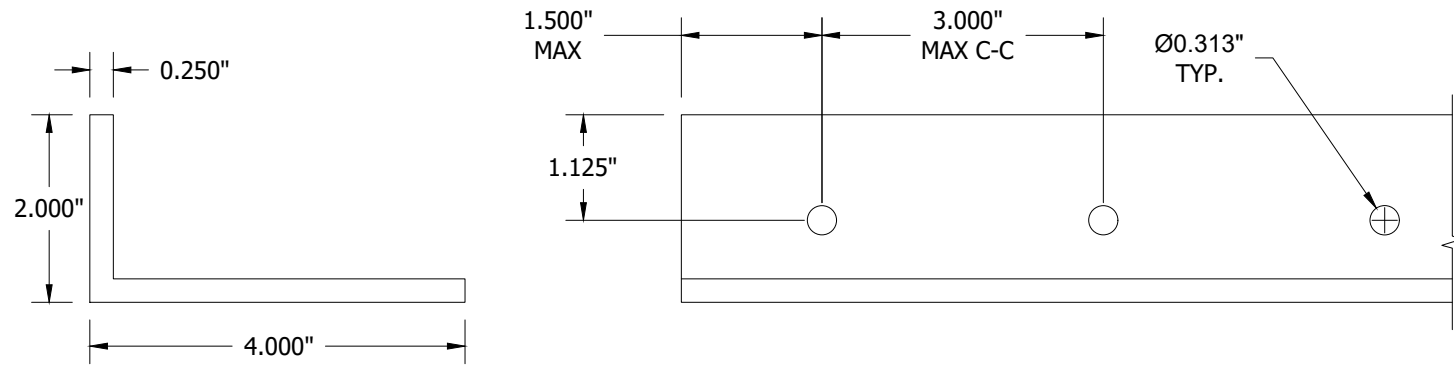
DWN. BY: GSL	CHK. BY: VMA	APPV'D. BY:	APPV'D. BY:
DATE: 3-13-98	DATE: 3-16-18	DATE:	DATE:

A	REV'D ENGINEER OF RECORD	NS	MMM	MMM	-	1/15/21
REV. LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D BY:	APPV'D. BY:	ECN	DATE
TITLE		PLOT SCALE		REV. A SHEET 11 OF 13		
EME6625D INSTALLATION		NONE		DWG. NO. 60-022424-00D		



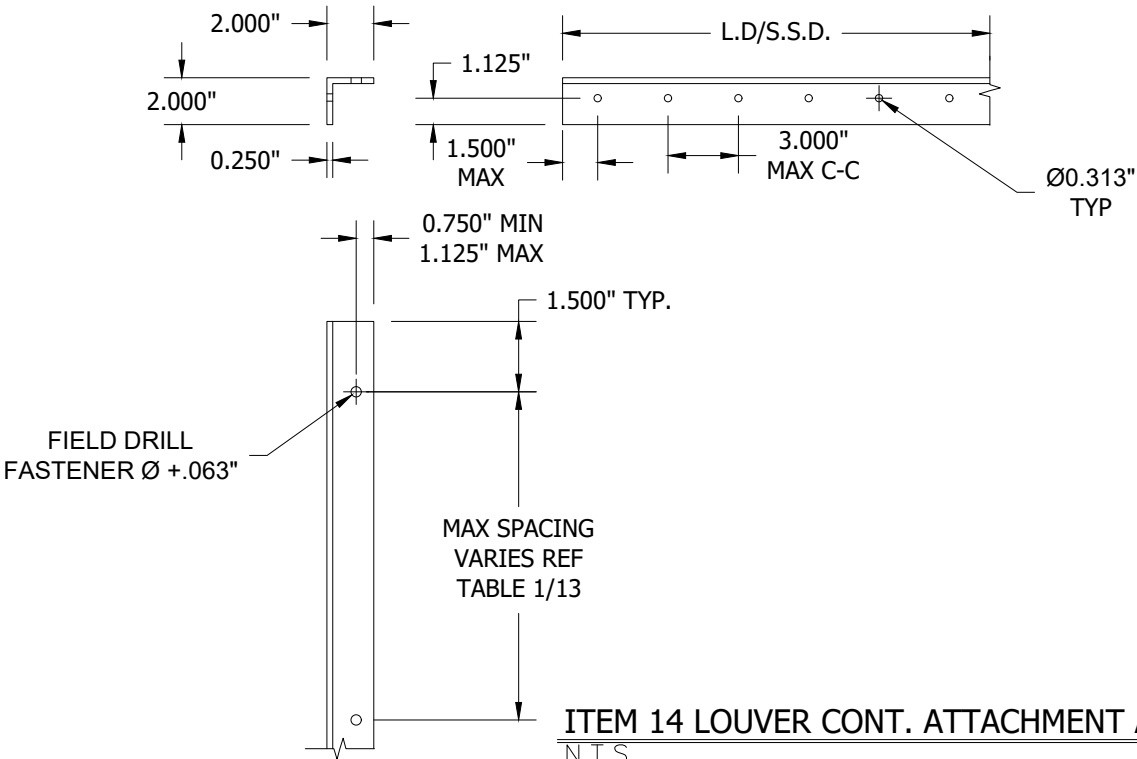
TOLERANCES  
DECIMAL DIMENSIONS:  
3 PLACE .XXX ±.010  
2 PLACE .XX ±.020  
FRACTION DIMENSIONS: ±1/16  
ANGLE DIMENSIONS ±2°  
USE WIQ-007 & 008  
UNLESS SPECIFIED OTHERWISE

PARTS



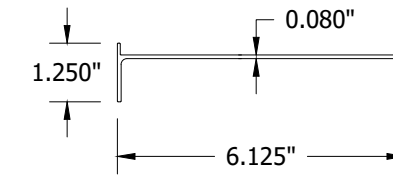
**ITEM 10 CONT. RETAINING ANGLE**

N.T.S.  
RUSKIN PART # A1379



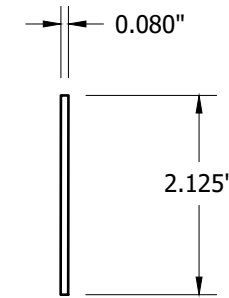
**ITEM 14 LOUVER CONT. ATTACHMENT ANGLE**

N.T.S.



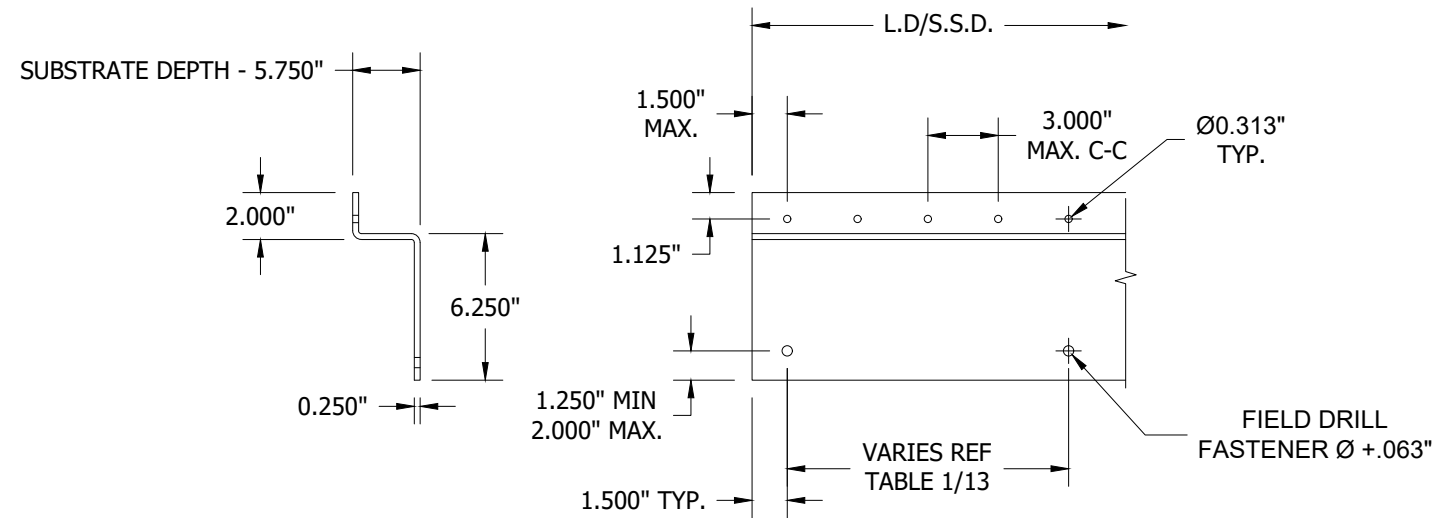
**ITEM 12 EXTERIOR SHAPE FRAME**

N.T.S.  
RUSKIN PART # 70-022507-00B



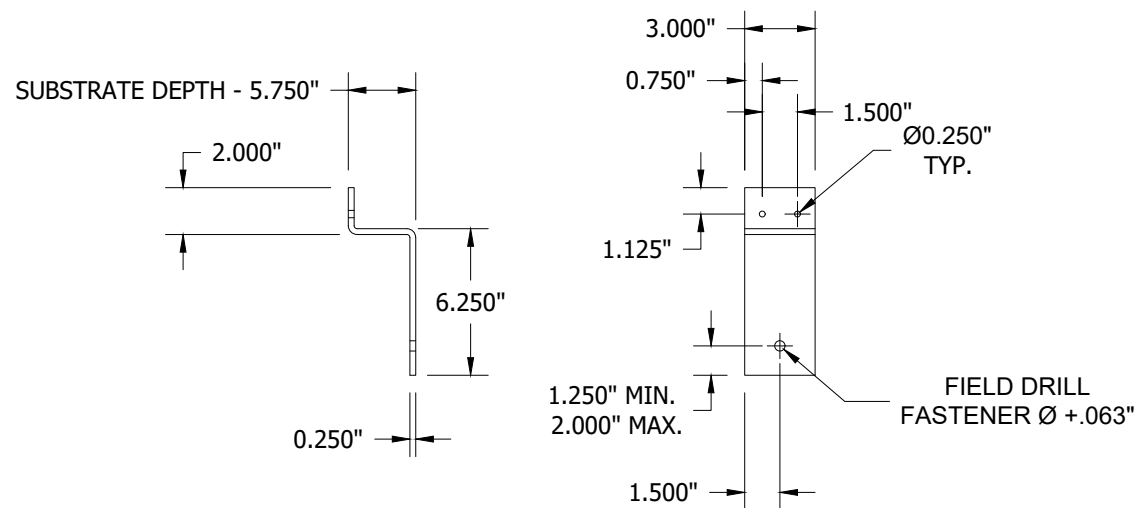
**ITEM 13 SHAPE WATER STOP**

N.T.S.



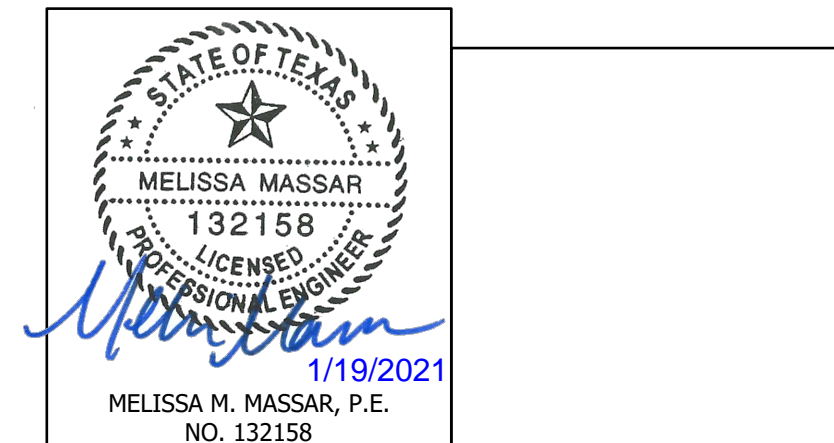
**ITEM 15 ALTERNATE CONT. ATTACHMENT ZEE**

N.T.S.



**ITEM 16 3" ALTERNATE ATTACHMENT ZEE CLIP**

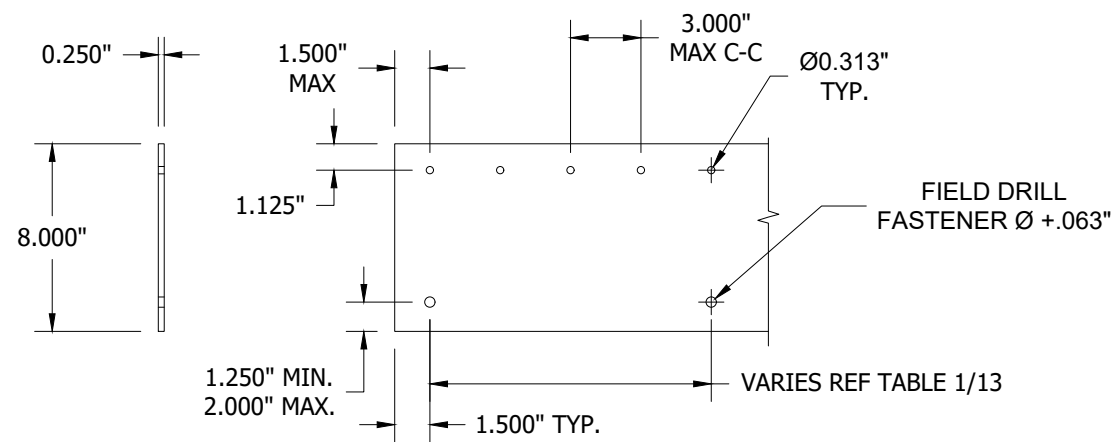
N.T.S.



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NO. 132158

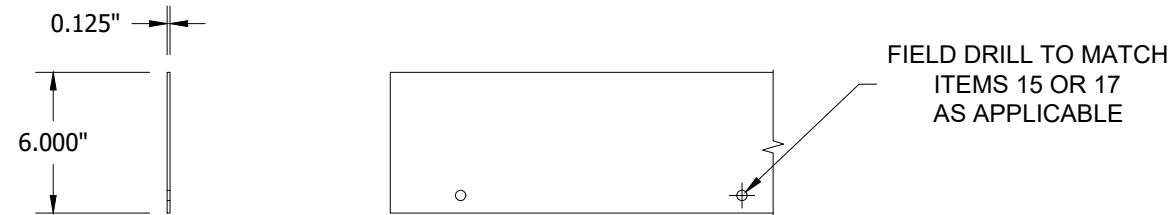
TOLERANCES DECIMAL DIMENSIONS: 3 PLACE .XXX ±0.10 2 PLACE .XX ±0.20 FRACTION DIMENSIONS: ±1/16 ANGLE DIMENSIONS ±2° USE WIQ-007 & 008 UNLESS SPECIFIED OTHERWISE	DWN. BY: GSL DATE: 3-13-98	CHK. BY: VMA DATE: 3-16-18	APPV'D. BY: DATE:	APPV'D. BY: DATE:
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A	REV'D ENGINEER OF RECORD	NS	MMM	MMM	-	1/15/21
REV. LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D BY:	APPV'D. BY:	ECN	DATE
TITLE		PLOT SCALE		REV. A SHEET 12 OF 13		
EME6625D INSTALLATION		NONE		DWG. NO. 60-022424-00D		



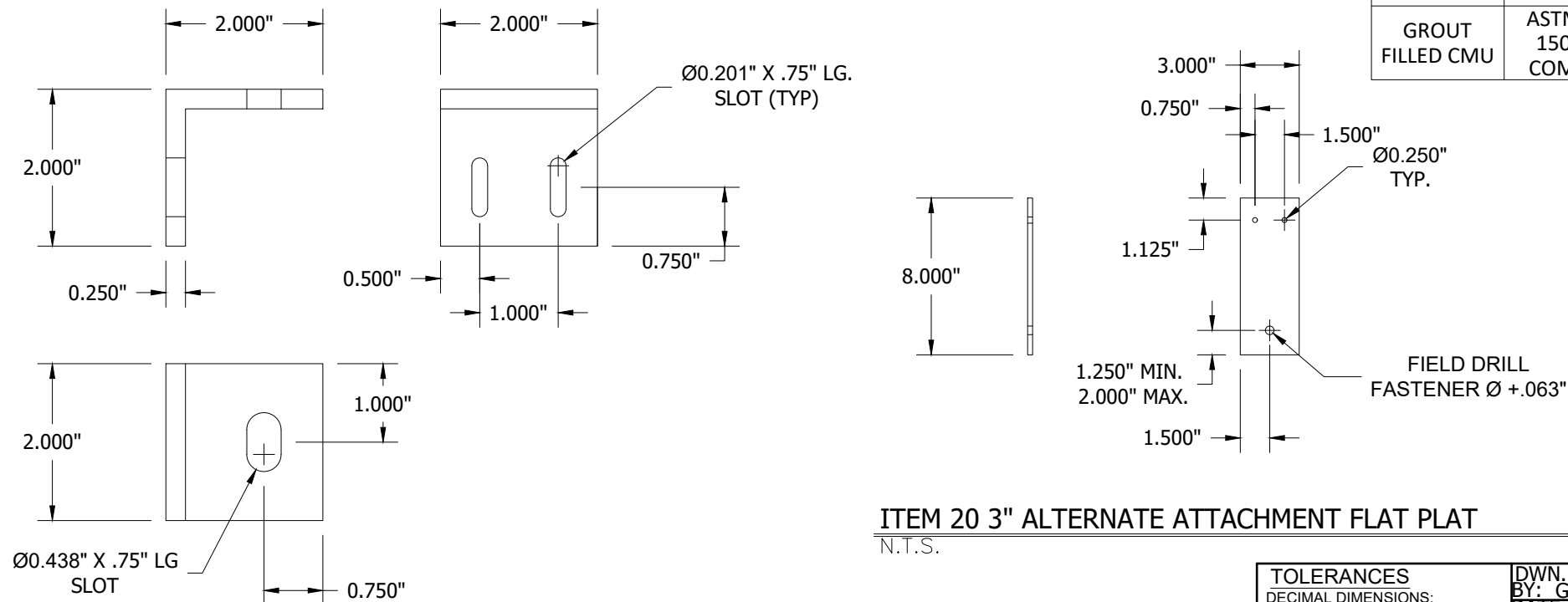
**ITEM 17 ALTERNATE ATTACHMENT CONT. FLAT PLATE**

N.T.S.



**ITEM 18 ALTERNATE ATTACHMENT CONT. STIFFNER PLATE**

N.T.S.



**ITEM 20 3" ALTERNATE ATTACHMENT FLAT PLAT**

N.T.S.

**ITEM 19 ATTACHMENT CLIP ANGLE**

N.T.S.

**TABLE 1  
RECTANGLE LOUVER SUBSTRATE FASTENER (ITEM 22)**

SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	FASTENER TYPE	MAX. C-C SPACING AT HEAD & SILL	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD	3" THICK, 0.55 SPECIFIC GRAVITY	3/8" DIA. LAG SCREW, 2 1/2" LONG, MIN. A307 GRADE A	7 1/2"	2 1/4"	1 1/2"
STEEL	12 GA, 45 KSI TENSILE STRENGTH, 33 KSI YIELD STRENGTH	1/4-20 BOLT W/ NUT, MIN. A307 GRADE A	6"	3 THREADS BEYOND NUT	1/2"
		1/4-14 SELF DRILLING SCREW, MIN. SAE GRADE 2	6"	3 THREADS BEYOND SUB. THICKNESS	1/2"
CONCRETE	2500 PSI COMP. STRENGTH	3/8" DIA. HILTI KWIK BOLT TZ, CARBON STEEL	7 1/2"	2 5/16"	2 1/2"
		3/8" DIA. HILTI KWIK HUS-EZ, CARBON STEEL	7 1/2"	2 1/2"	2 1/2"
GROUT FILLED CMU	ASTM C-90 BLOCK, 1500 PSI GROUT COMP. STRENGTH	3/8" DIA. HILTI KWIK HUS-EZ, CARBON STEEL	7 1/2"	1 5/8"	4"

**TABLE 2  
SHAPED LOUVER SUBSTRATE FASTENER (ITEM 23)**

SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	FASTENER TYPE	MAX. CLIP ANGLE SPACING	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD	3" THICK, 0.55 SPECIFIC GRAVITY	3/8" DIA. LAG SCREW, 2 1/2" LONG, MIN. A307 GRADE A	6"	2 1/4"	1 1/2"
STEEL	12 GA, 45 KSI TENSILE STRENGTH, 33 KSI YIELD STRENGTH	1/4-20 BOLT W/ NUT, MIN. A307 GRADE A	6"	3 THREADS BEYOND NUT	1/2"
		1/4-14 SELF DRILLING SCREW, MIN. SAE GRADE 2	4"	3 THREADS BEYOND SUB. THICKNESS	1/2"
CONCRETE	2500 PSI COMP. STRENGTH	3/8" DIA. HILTI KWIK BOLT TZ, CARBON STEEL	6"	2 5/16"	2 1/2"
		3/8" DIA. HILTI KWIK HUS-EZ, CARBON STEEL	6"	2 1/2"	2"
GROUT FILLED CMU	ASTM C-90 BLOCK, 1500 PSI GROUT COMP. STRENGTH	3/8" DIA. HILTI KWIK HUS-EZ, CARBON STEEL	6"	1 5/8"	4"



A	REV'D ENGINEER OF RECORD	NS	MMM	MMM	-	1/15/21	
REV. LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D BY:	APPV'D. BY:	ECN	DATE	
TOLERANCES		DWN. BY: GSL		CHK. BY: VMA		APPV'D. BY:	
DECIMAL DIMENSIONS: 3 PLACE .XXX ±.010		DATE: 3-13-98		DATE: 3-16-18		DATE:	
FRACTION DIMENSIONS: ±1/16		DATE:		DATE:		DATE:	
ANGLE DIMENSIONS ±2°		DATE:		DATE:		DATE:	
USE WIQ-007 & 008 UNLESS SPECIFIED OTHERWISE		DATE:		DATE:		DATE:	
PARTS & FASTENER TABLE		TITLE		REV. A		SHEET 13 OF 13	
EME6625D INSTALLATION		RUSKIN 3900 DR. GREAVES RD GRANDVIEW, MO 64030		NONE		ECN: _____	
DWG. NO. 60-022424-00D		REV. A		SHEET 13 OF 13		ECN: _____	