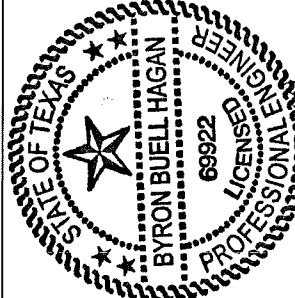
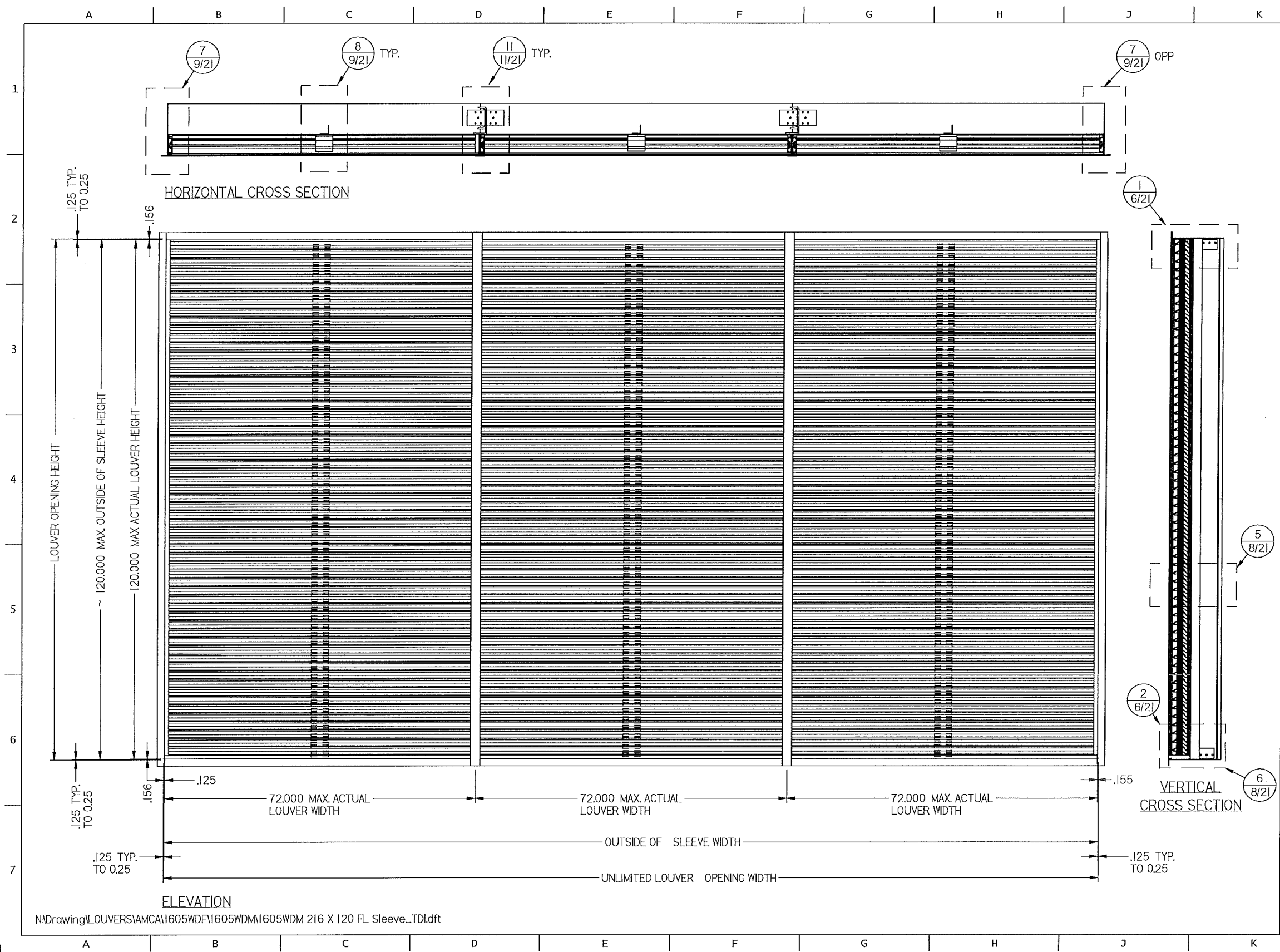


1	<b>DRAWING INDEX:</b> 1. INDEX TO DRAWING AND NOTES. 2. 1605WDM LOUVER- FLANGE FRAME SLEEVE MOUNT 3. 1605WDM LOUVER- CONTINUOUS ANGLE MOUNT 4. 1605WDM / DAMPER- FLANGE FRAME SLEEVE MOUNT 5. 1605WDM / DAMPER- CONTINUOUS ANGLE MOUNT 6. 1605WDM LOUVER- FLANGE FRAME SLEEVE MOUNT HEAD & SILL DETAIL 7. 1605WDM LOUVER- CONTINUOUS ANGLE MOUNT HEAD & SILL DETAIL. 8. 1605WDM LOUVER- BLADE SUPPORT DETAIL. 9. 1605WDM LOUVER- FLANGE FRAME SLEEVE MOUNT JAMB DETAIL 10. 1605WDM LOUVER- CONTINUOUS ANGLE MOUNT JAMB DETAIL. 11. 1605WDM LOUVER- FLANGE FRAME SLEEVE MOUNT MULLION DETAIL. 12. 1605WDM LOUVER- CONTINUOUS ANGLE MOUNT MULLION DETAIL. 13. 1605WDM LOUVER / DAMPER FLANGE FRAME W/ SLEEVE & CONTINUOUS ANGLE HEAD & SILL DETAIL. 14. 1605WDM / DAMPER- FLANGE FRAME SLEEVE MOUNT JAMB AND MULLION DETAIL 15. 1605WDM LOUVER / DAMPER CONTINUOUS ANGLE MOUNT JAMB AND MULLION DETAIL. 16. 1605WDM LOUVER W/ AND W/O DAMPER- SLEEVE / CONTINUOUS MOUNT PART PROFILES. 17. 1605WDM LOUVER W/ AND W/O DAMPER- SLEEVE / CONTINUOUS MOUNT PART PROFILES. 18. MULLION ANGLES BACK OF WALL MOUNT 19. 1605WDM LOUVER W/ AND W/O DAMPER AVAILABLE SHAPES 20. 1605WDM LOUVER W/ AND W/O DAMPER- SLEEVE / CONTINUOUS MOUNT BILL OF MATERIAL. 21. 1605WDM LOUVER W/ AND W/O DAMPER NOTES AND FASTENER SCHEDULE.	<b>NOTES:</b> 1) THE 1605WDM HAS BEEN TESTED IN ACCORDANCE WITH THE MIAMI-DADE COUNTY PROTOCOLS TAS-201, 202, & 203 FOR LARGE MISSILE IMPACT, UNIFORM PRESSURE AND CYCLIC WIND PRESSURE. 2) THIS LOUVER SYSTEM IS APPROVED FOR APPLICATIONS WITH DESIGN PRESSURES OF +/- 150 PSF OR LESS 3) THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEAD LOADS. 4) LOUVER ANCHORS ARE REVIEWED FOR ATTACHMENT INTO STEEL, CONCRETE, MASONRY, OR TIMBER SUBSTRUCTURE. MINIMUM EDGE DISTANCE AND EMBEDMENT REQUIREMENTS ARE SHOWN. NAILOR IND. DOES NOT DETERMINE THE STRUCTURE INTEGRITY OF THE SUBSTRUCTURE. 5) MAXIMUM SINGLE SECTION SIZE : 72" WIDE X 120" HIGH. 6) MAXIMUM ASSEMBLED LOUVER SIZE UNLIMITED WIDE X 120" HIGH. MAX. MULLION SPACING IS 72".	<b>TESTS PERFORMED:</b> TAS100 A WIND DRIVEN RAIN RESISTANCE W/ DAMPER TAS-201 LARGE MISSILE IMPACT TAS-202 UNIFORM STATIC AIR PRESSURE TEST TAS-203 CYCLIC WIND PRESURE TEST DESIGN PRESSURE RATING 150 PSF 2018 IBC 2018 IRC	CHK BY: Mastourian SCALE: NTS SHEET: 1 OF 21 REV B DWG. NO. 1605WDM
2			DWN BY: fcourtinas DATE: 11/2/2020	
3			Nailor Industries Inc. 4714 Winfield Road Houston, TX 77039 TEL: 281-590-1172 FAX: 281-590-3086 www.nailor.com TITLE: 1605WDM LOUVER W/ AND W/O DAMPER INDEX	
4			 11/2/20	
5			REV A_ON PAGE 7 OF 21; 16 OF 21; 20 OF 21 REV B_ON PAGE 1 OF 21; ADDED CODES 2018 IBC, 2018 IRC, DELETED NOTE #7.	
6				
7				



N:\Drawing\LOUVERS\AMCA\1605WDF\1605WDM\1605WDM 216 X 120 FL Sleeve\_TDI.dft

DWN BY: fcoartinas  
 DATE: 11/2/2020  
 SCALE: NTS

CHK BY: Mastourian

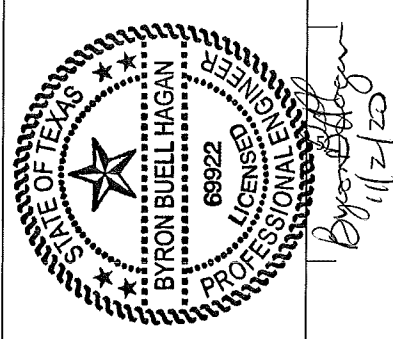
SHEET: 2 OF 21

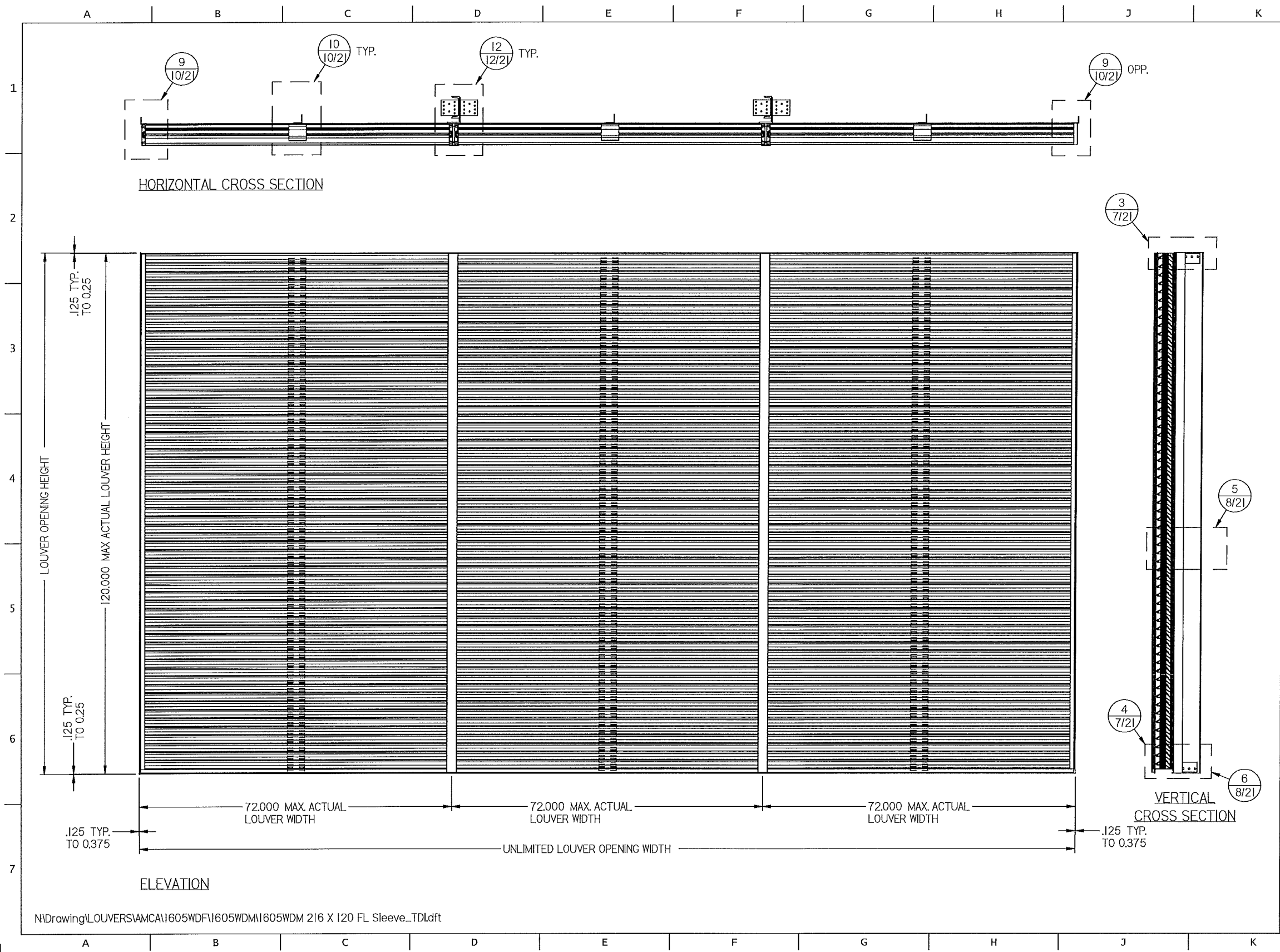
DWG. NO. 1605WDM

REV B

**Nailor Industries Inc.**  
 4714 Winfield Road Houston, TX 77039  
 TEL: 281-590-1172 FAX: 281-590-3086  
 www.nailor.com

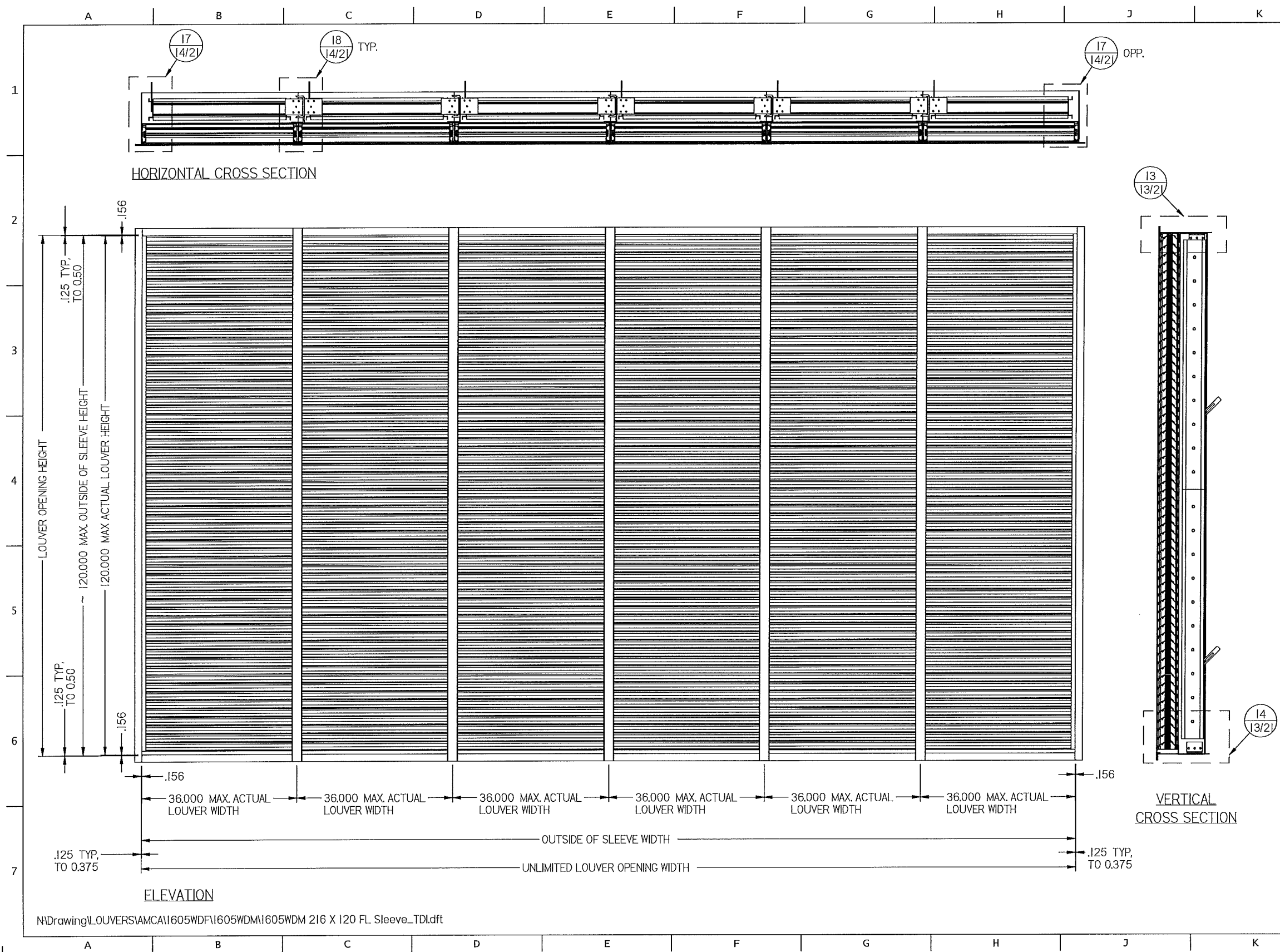
TITLE: 1605WDM LOUVER FLANGE FRAME SLEEVE MOUNT





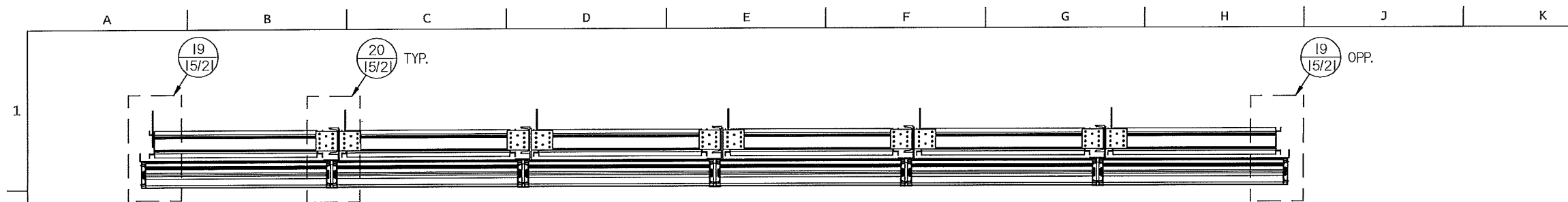
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DWN BY: foortinas	CHK BY: Mastourian	SCALE: NTS	SHEET: 3 OF 21	REV B
DATE: 11/2/2020				DWG. NO. 1605WDM
<b>Nailor Industries Inc.</b> 4714 Winfield Road Houston, TX 77039 TEL: 281-590-1172 FAX: 281-590-3086 www.nailor.com		TITLE: 1605WDM LOUVER COUNTINOUS ANGLE MOUNT		
		<i>Byron Buell Hagan</i> 11/2/20		

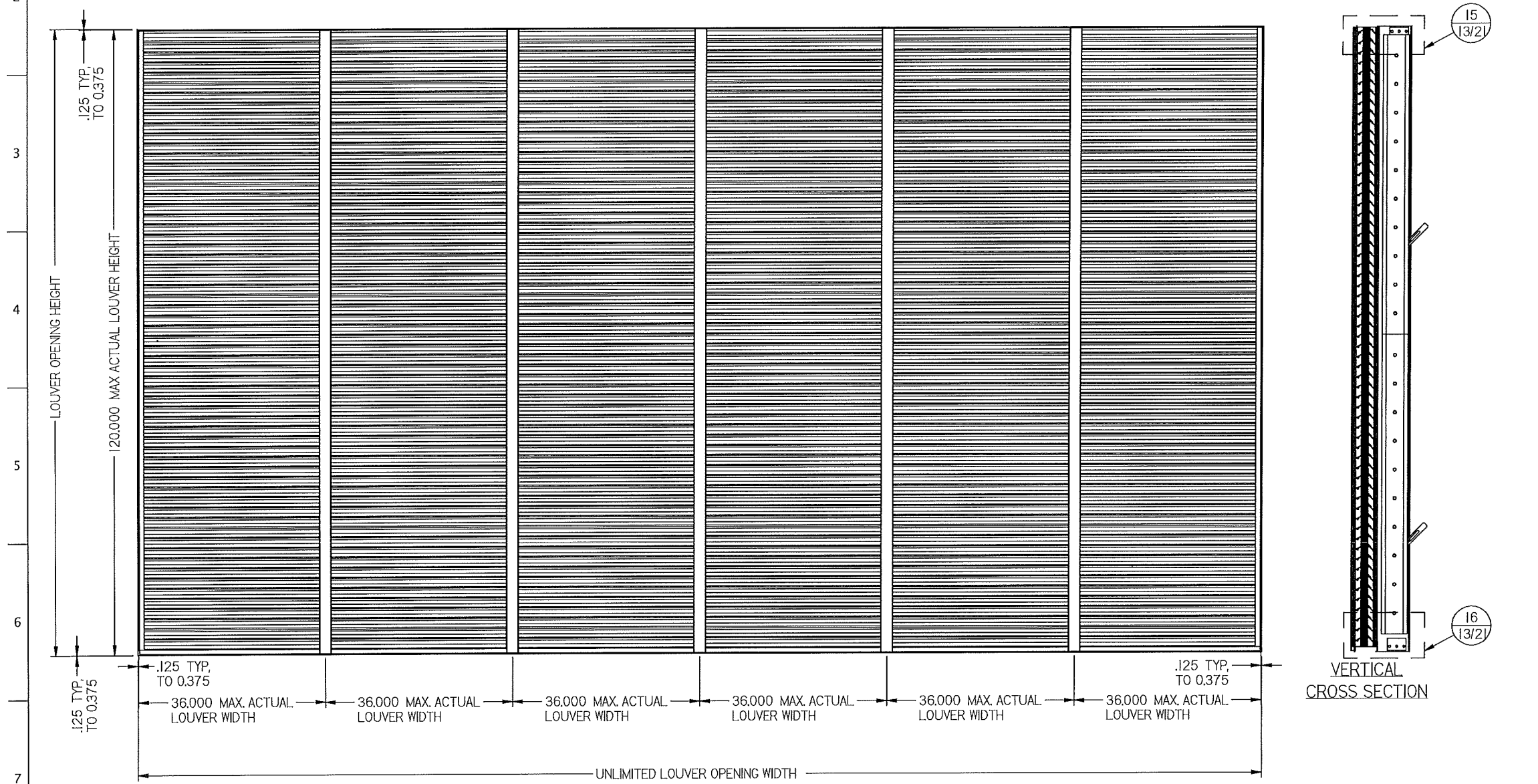


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DWN BY: f.cortinas DATE: 11/2/2020	CHK BY: Mastourian SCALE: NTS	SHEET: 4 OF 21 REV B
	TITLE: <b>1605WDM / DAMPER          FLANGE FRAME          SLEEVE MOUNT</b>	
Nair Industries Inc. 4714 Winfield Road Houston, TX 77039 TEL: 281-590-1172 FAX: 281-590-3086 www.nair.com		
STATE OF TEXAS BYRON BUELL HAGAN 69922 LICENSED PROFESSIONAL ENGINEER <i>Byron Buell Hagan</i> 11/2/20		



HORIZONTAL CROSS SECTION

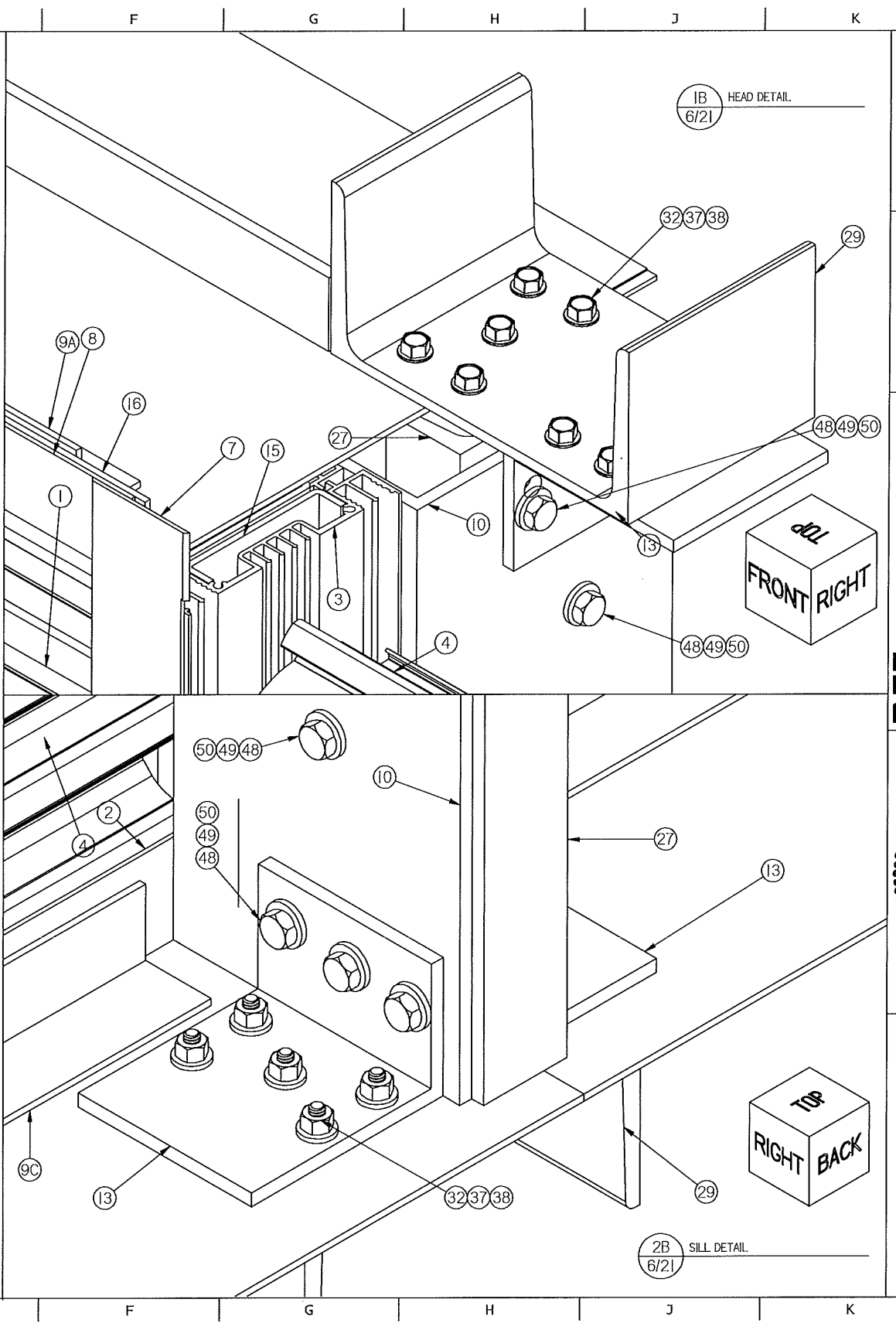
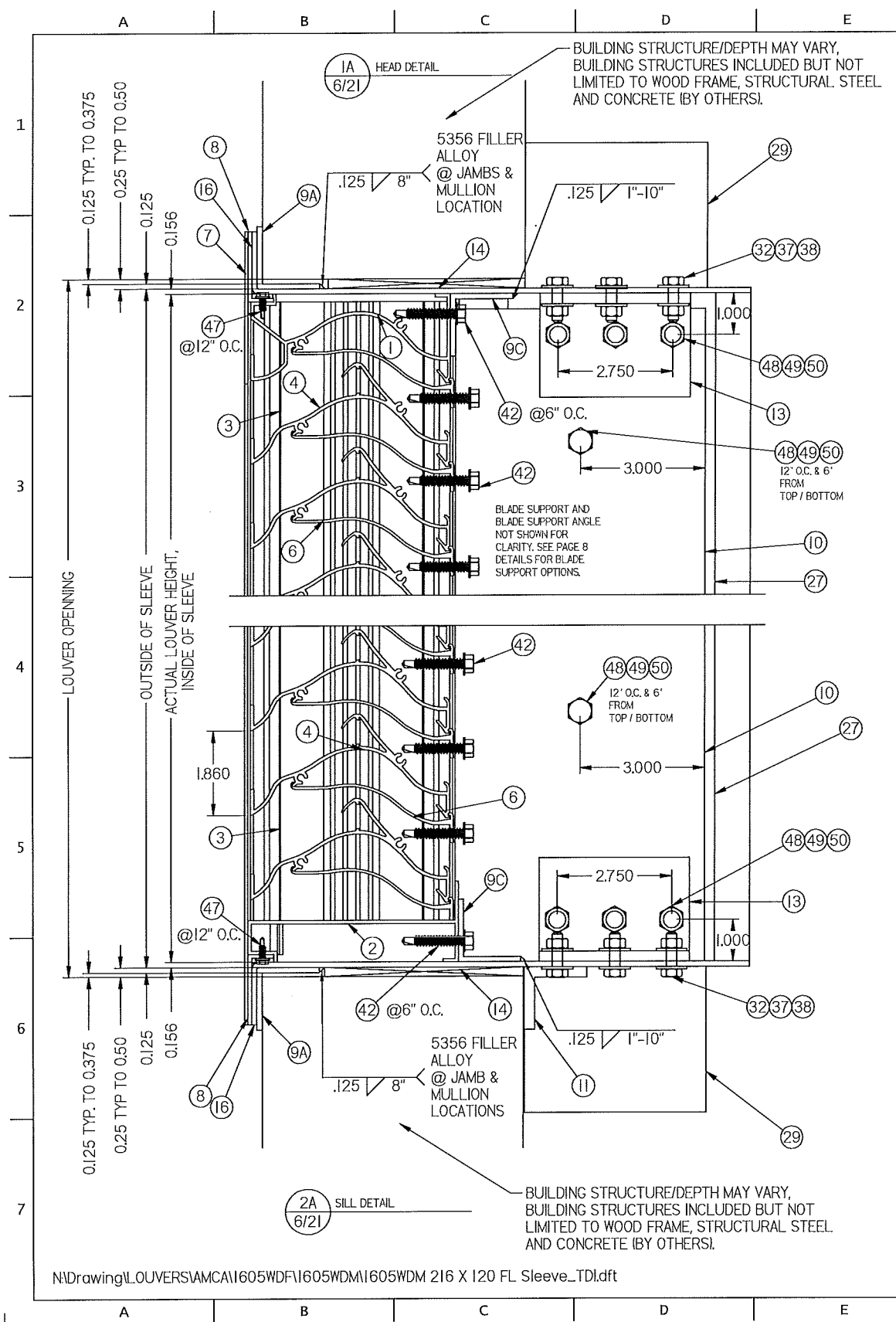


ELEVATION

VERTICAL CROSS SECTION

N:\Drawing\LOUVERS\AMCA\1605WDM\1605WDM\1605WDM 216 X 120 FL Sleeve\_TDI.dft

 Nailor Industries Inc. 4714 Winfield Road Houston, TX 77039 TEL: 281-590-1172 FAX: 281-590-3086 www.nailor.com	DWN BY: fcortinas DATE: 11/2/2020	CHK BY: Mastourian SCALE: NTS
	SHEET: 5 OF 21	
TITLE: 1605WDM / DAMPER CONTINUOUS ANGLE MOUNT		DWG. NO. 1605WDM REV B
<i>Byron Buell Hagan</i> 11/2/20		



N:\Drawing\LOUVERS\AMCA\1605WDF\1605WDM\1605WDM 216 X 120 FL Sleeve\_TDI.dft

DWN BY: fcortinas  
CHK BY: Mastourian  
DATE: 11/2/2020  
SCALE: NTS

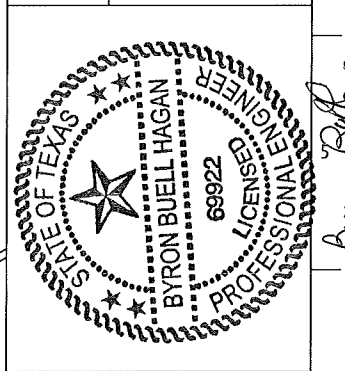
SHEET: 6 OF 21

DWG. NO. 1605WDM

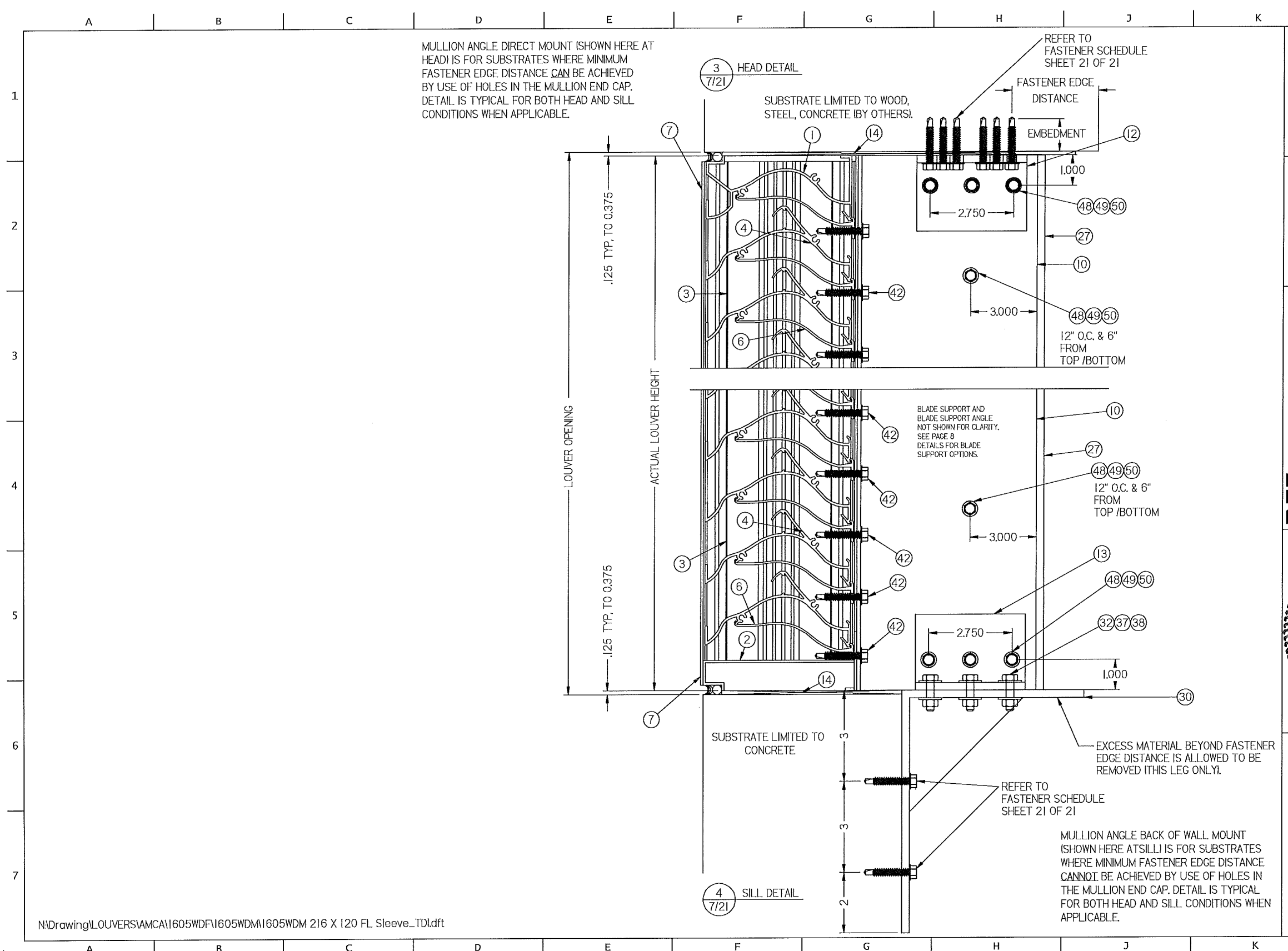
REV B

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TEL: 281-590-1172 FAX: 281-590-3086  
www.nalor.com

TITLE: 1605WDM LOUVER  
FLANGE FRAME  
SLEEVE MOUNT  
HEAD & SILL DETAIL



*Byron Buell Hagan*  
11/2/20



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MULLION ANGLE DIRECT MOUNT (SHOWN HERE AT HEAD) IS FOR SUBSTRATES WHERE MINIMUM FASTENER EDGE DISTANCE CAN BE ACHIEVED BY USE OF HOLES IN THE MULLION END CAP. DETAIL IS TYPICAL FOR BOTH HEAD AND SILL CONDITIONS WHEN APPLICABLE.

3 HEAD DETAIL  
7/21

SUBSTRATE LIMITED TO WOOD, STEEL, CONCRETE (BY OTHERS).

REFER TO FASTENER SCHEDULE SHEET 21 OF 21

FASTENER EDGE DISTANCE

EMBEDMENT

1,000

2.750

12" O.C. & 6" FROM TOP /BOTTOM

BLADE SUPPORT AND BLADE SUPPORT ANGLE NOT SHOWN FOR CLARITY. SEE PAGE 8 DETAILS FOR BLADE SUPPORT OPTIONS.

12" O.C. & 6" FROM TOP /BOTTOM

2.750

1,000

4 SILL DETAIL  
7/21

SUBSTRATE LIMITED TO CONCRETE

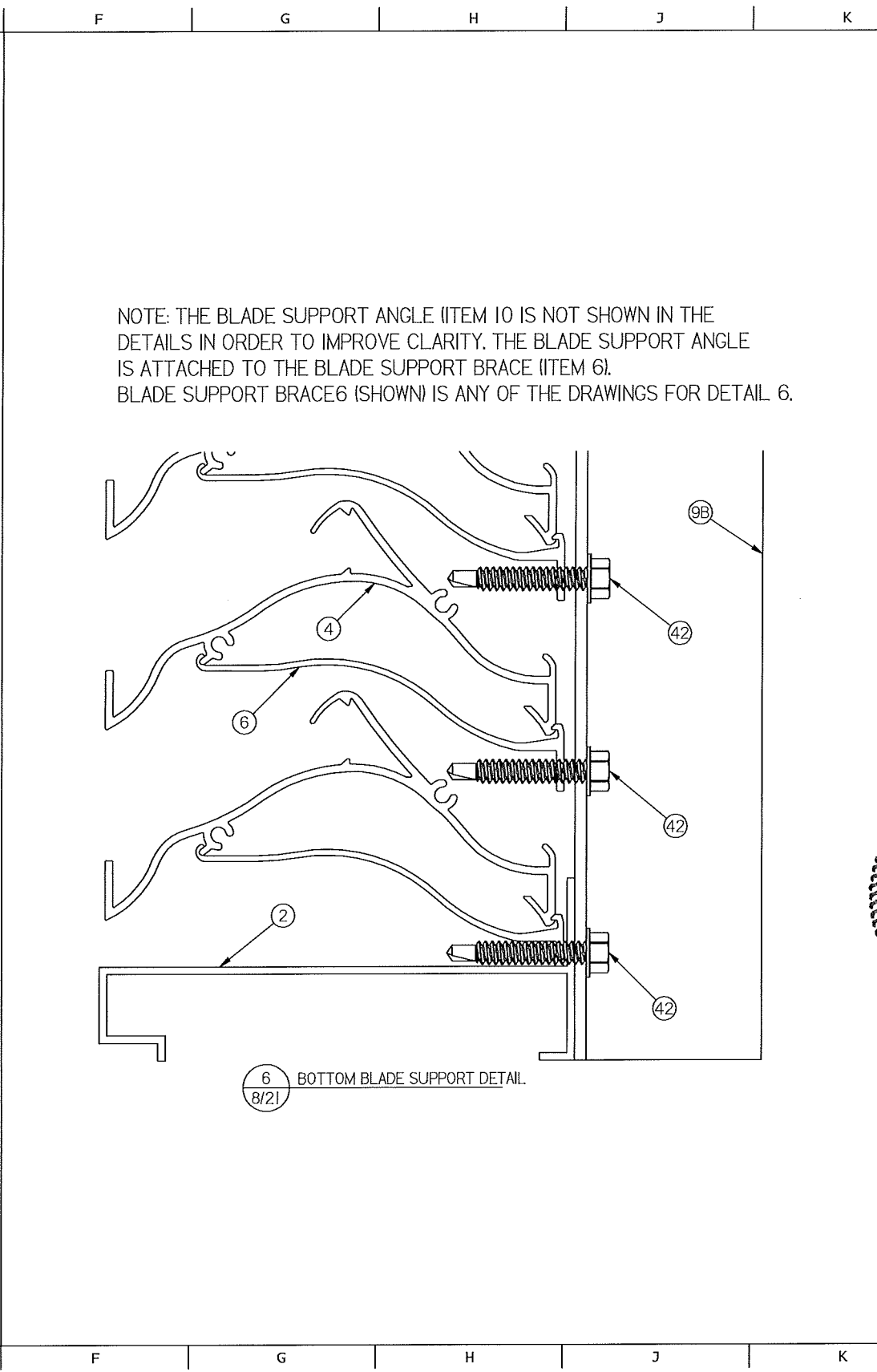
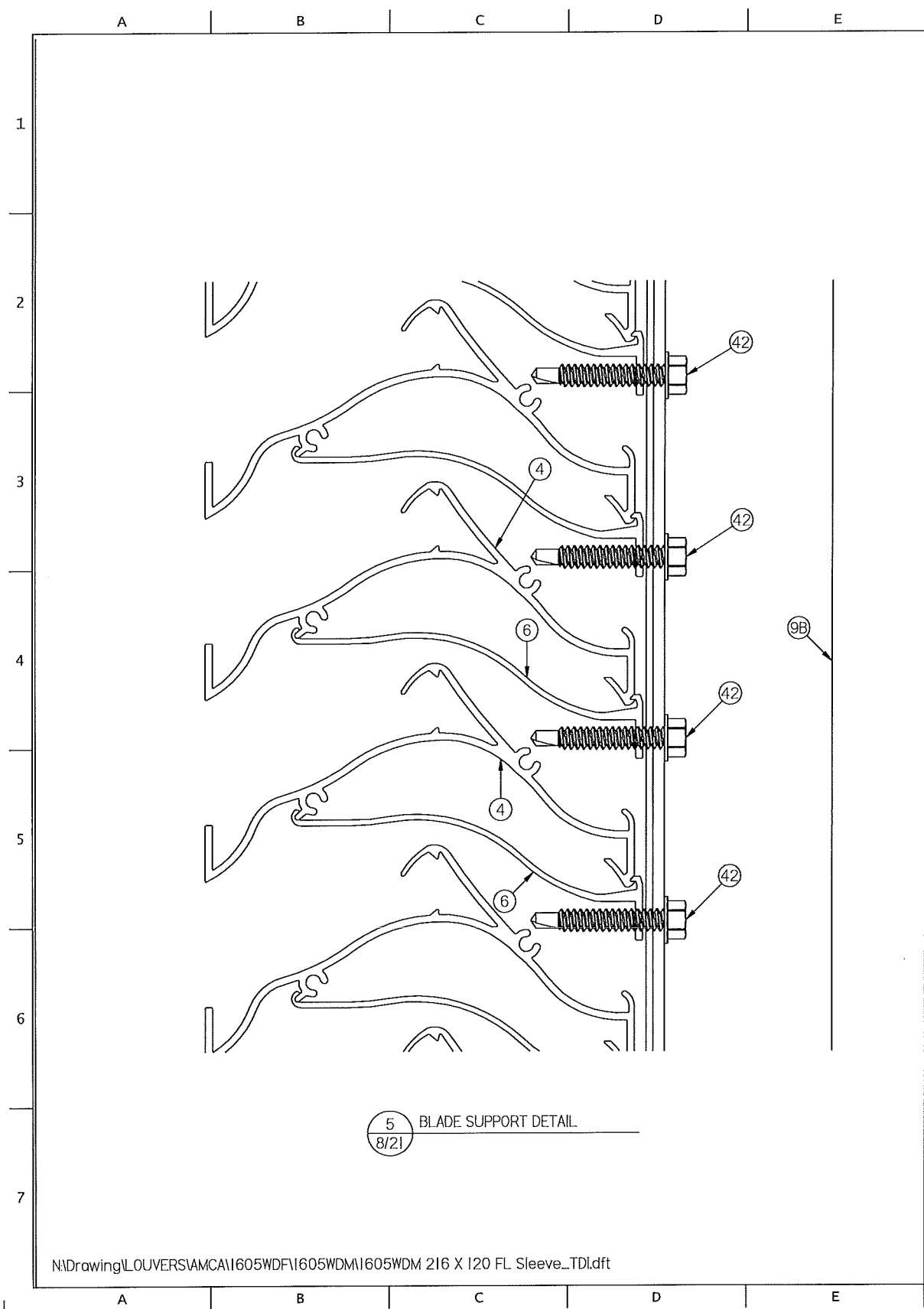
REFER TO FASTENER SCHEDULE SHEET 21 OF 21

MULLION ANGLE BACK OF WALL MOUNT (SHOWN HERE AT SILL) IS FOR SUBSTRATES WHERE MINIMUM FASTENER EDGE DISTANCE CANNOT BE ACHIEVED BY USE OF HOLES IN THE MULLION END CAP. DETAIL IS TYPICAL FOR BOTH HEAD AND SILL CONDITIONS WHEN APPLICABLE.

DWN BY: fcortinas	CHK BY: Mastourian	SHEET: 7 OF 21	REV B
DATE: 11/2/2020	SCALE: NTS		
<p>Nailor Industries Inc. 4714 Winfield Road Houston, TX 77039 TEL: 281-590-1172 FAX: 281-590-3086 www.nailor.com</p>		<p>TITLE: 1605WDM LOUVER MULLION ANGLE MOUNT HEAD &amp; SILL DETAILS</p>	
		<p>REV A: ADDED 3.000 DIM (3H); (5H)</p>	

*Byron Buell Hagan*  
11/2/20

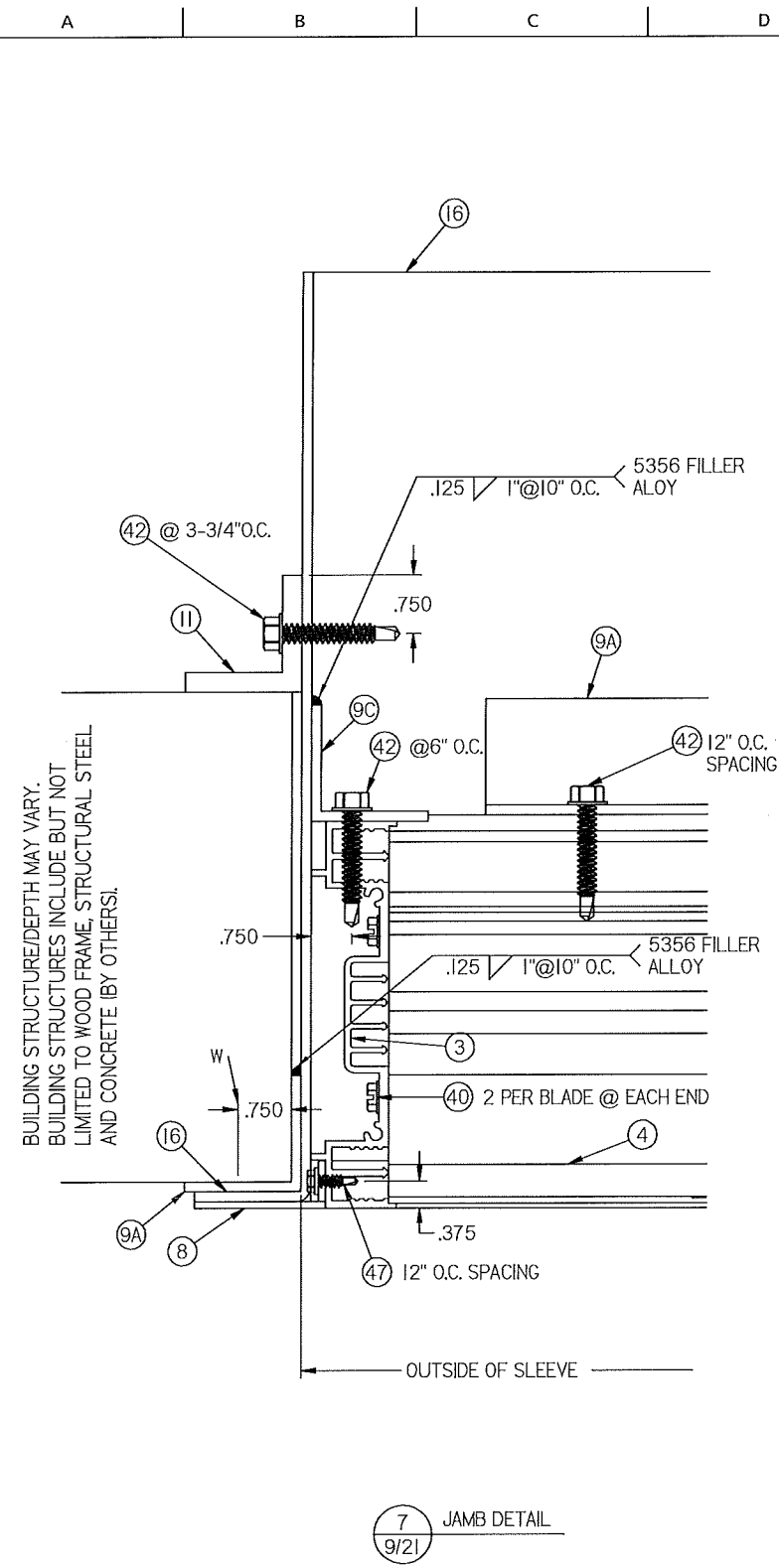




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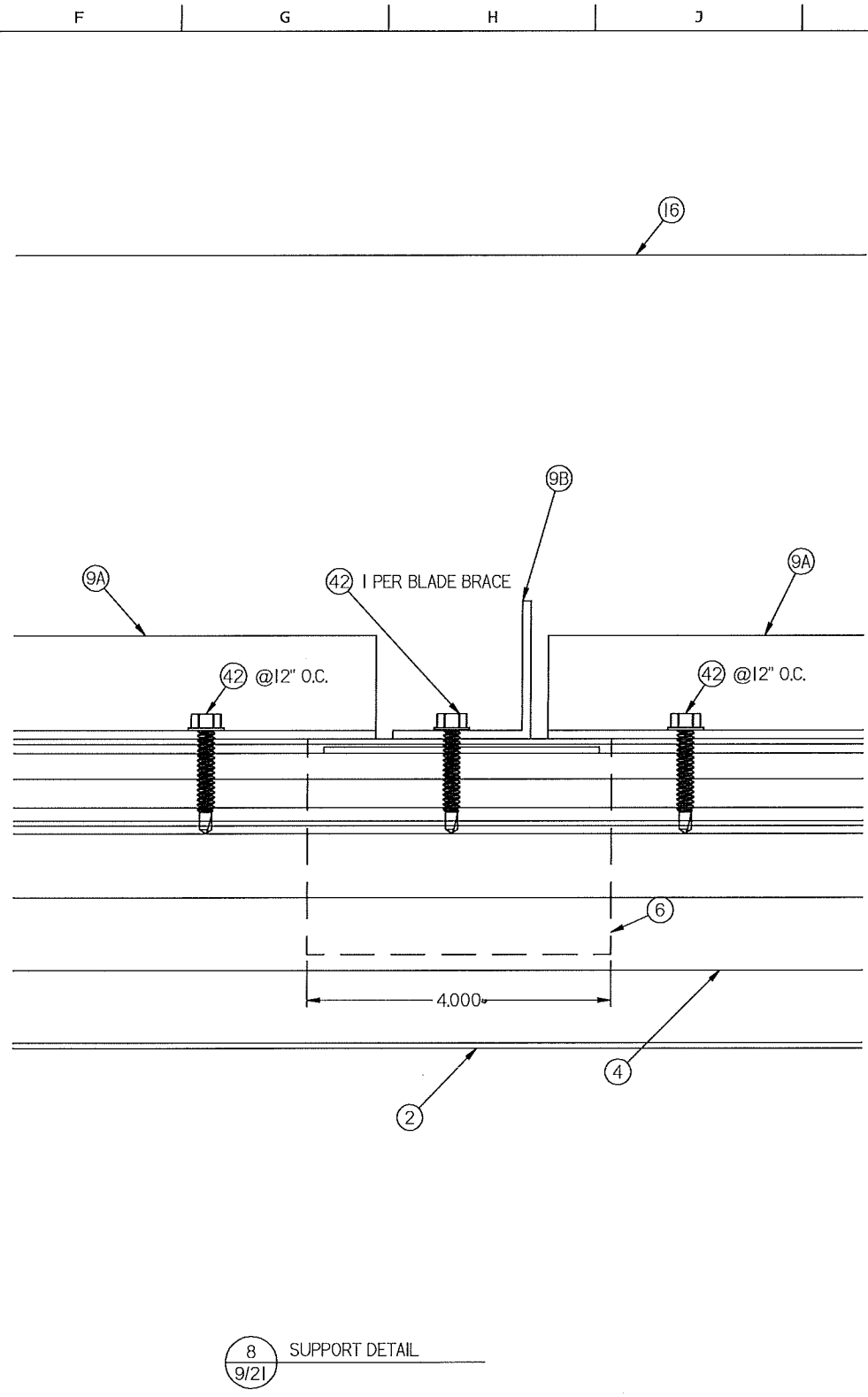
DWN BY: fcortinas	CHK BY: MASTOURIAN	SHEET: 8 OF 21	REV B
DATE: 11/2/2020	SCALE: NTS		
		DWG. NO. 1605WDM	
TITLE: 1605WDM LOUVER BLADE SUPPORT DETAIL			
		<i>Byron Buell Hagan</i> 4/2/20	





BUILDING STRUCTURE/DEPTH MAY VARY.  
 BUILDING STRUCTURES INCLUDE BUT NOT  
 LIMITED TO WOOD FRAME, STRUCTURAL STEEL  
 AND CONCRETE (BY OTHERS).

7 JAMB DETAIL  
 9/21



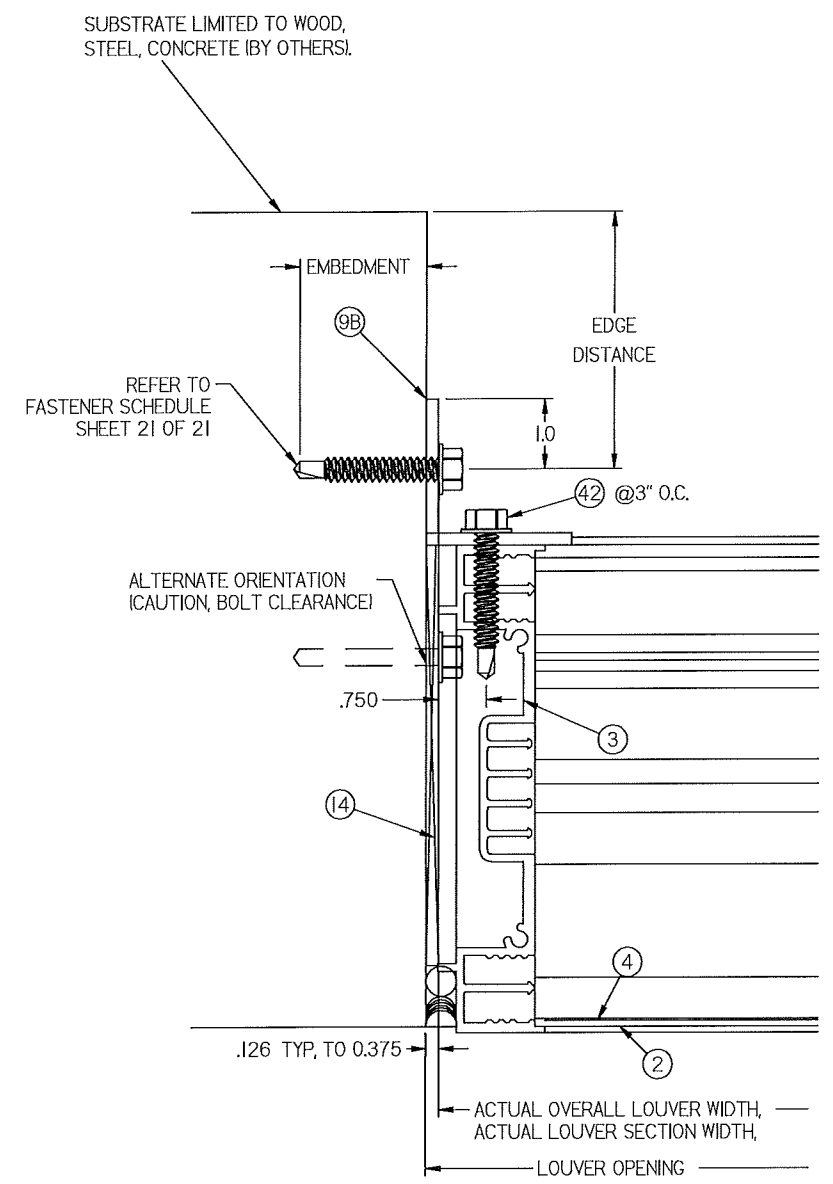
8 SUPPORT DETAIL  
 9/21

N:\Drawing\LOUVERS\AMCA\1605WDF\1605WDM\1605WDM 216 X 120 FL Sleeve\_TDI.dft

DWN BY: fcoartinas	CHK BY: Mastourian	SCALE: NTS
DATE: 11/2/2020		
SHEET: 9 OF 21		REV B
DWG. NO. 1605WDM		
<p><b>Nailor Industries Inc.</b>          4714 Winfield Road Houston, TX 77039          TEL: 281-590-1172 FAX: 281-590-3086          www.nailor.com</p>		
<p>TITLE:          1605WDM LOUVER          FLANGE FRAME SLEEVE MOUNT          JAMB DETAILS</p>		
<p><i>Byron Buell Hagan</i>          11/2/20</p>		

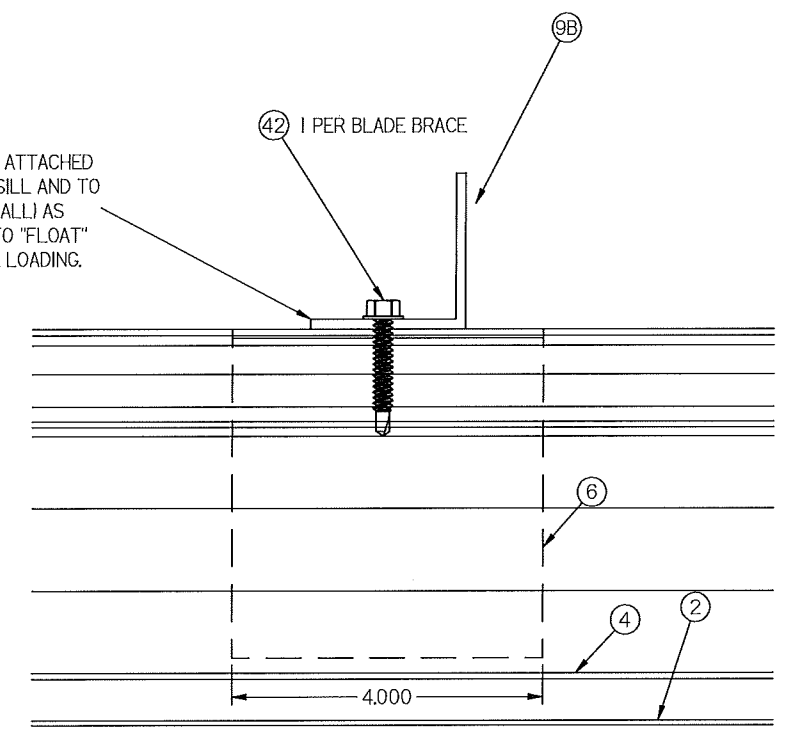
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9 JAMB DETAIL  
10/21

SUPPORT NOT ATTACHED AT HEAD AND SILL AND TO SUBSTRATE (WALL) AS TO ALLOW IT TO "FLOAT" DURING BLADE LOADING.



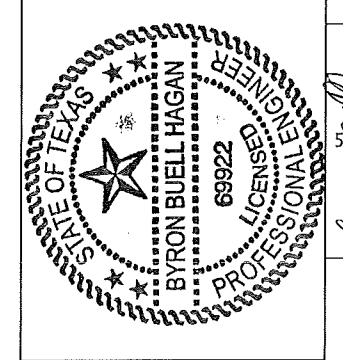
10 SUPPORT DETAIL  
10/21

N:\Drawing\LOUVERS\AMCA\1605WDF\1605WDM\1605WDM 216 X 120 FL Sleeve\_TDI.dft

DWN BY: fcoartinas	CHK BY: Mastourian
DATE: 11/2/2020	SCALE: NTS
SHEET: 10 OF 21	
DWG. NO. 1605WDM	REV B

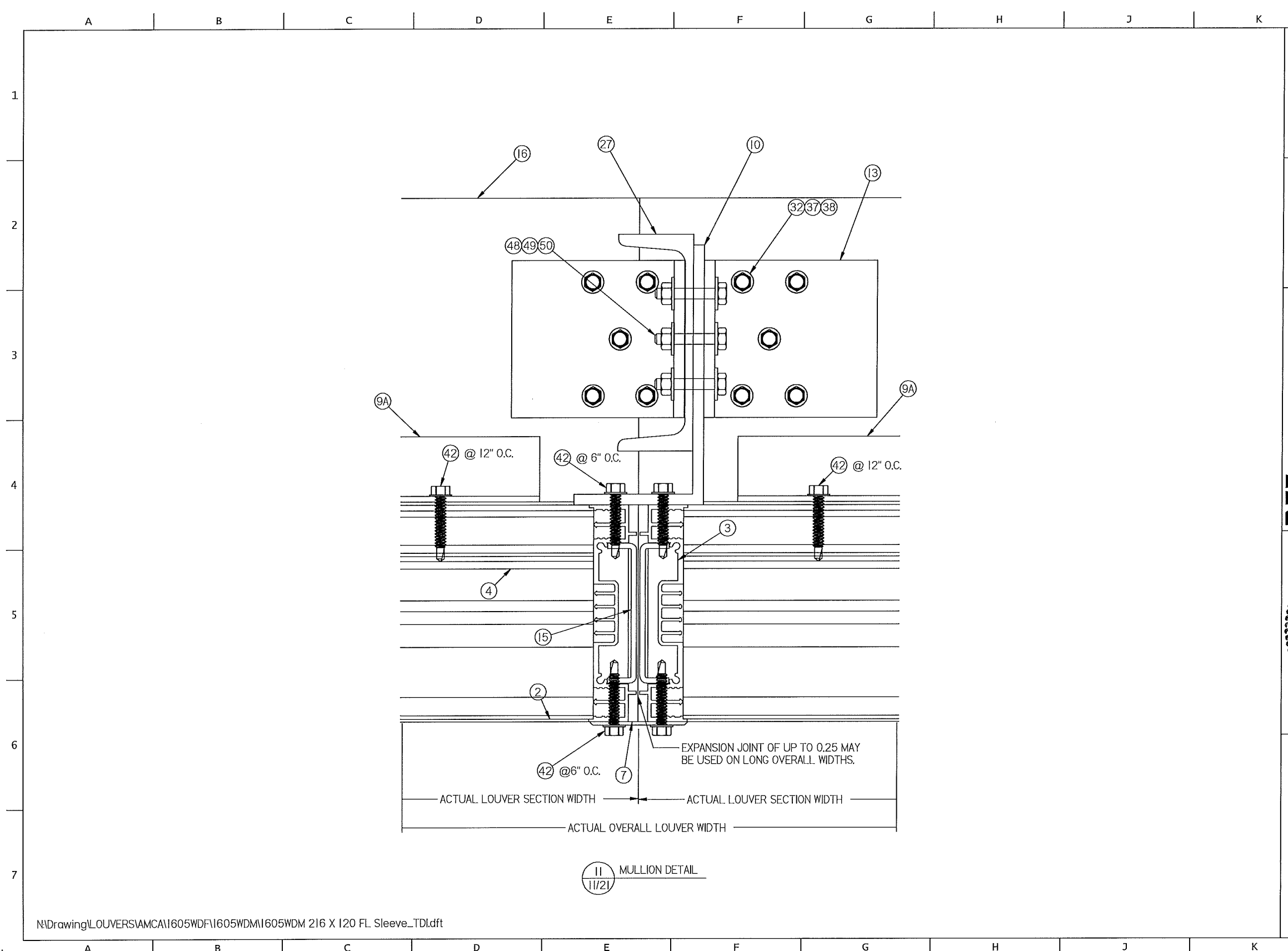
**Nailor Industries Inc.**  
4714 Winfield Road Houston, TX 77039  
TEL: 281-590-1172 FAX: 281-590-3086  
www.nailor.com

TITLE: 1605WDM LOUVER COUNTINOUS ANGLE MOUNT JAMB DETAIL



*Byron Buell Hagan*  
11/2/20

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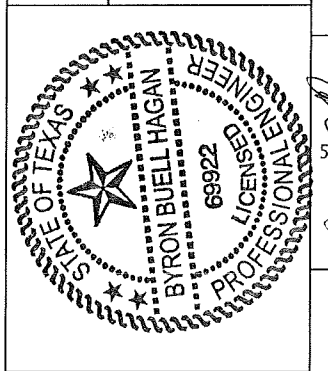


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 CHK BY: Mastourian  
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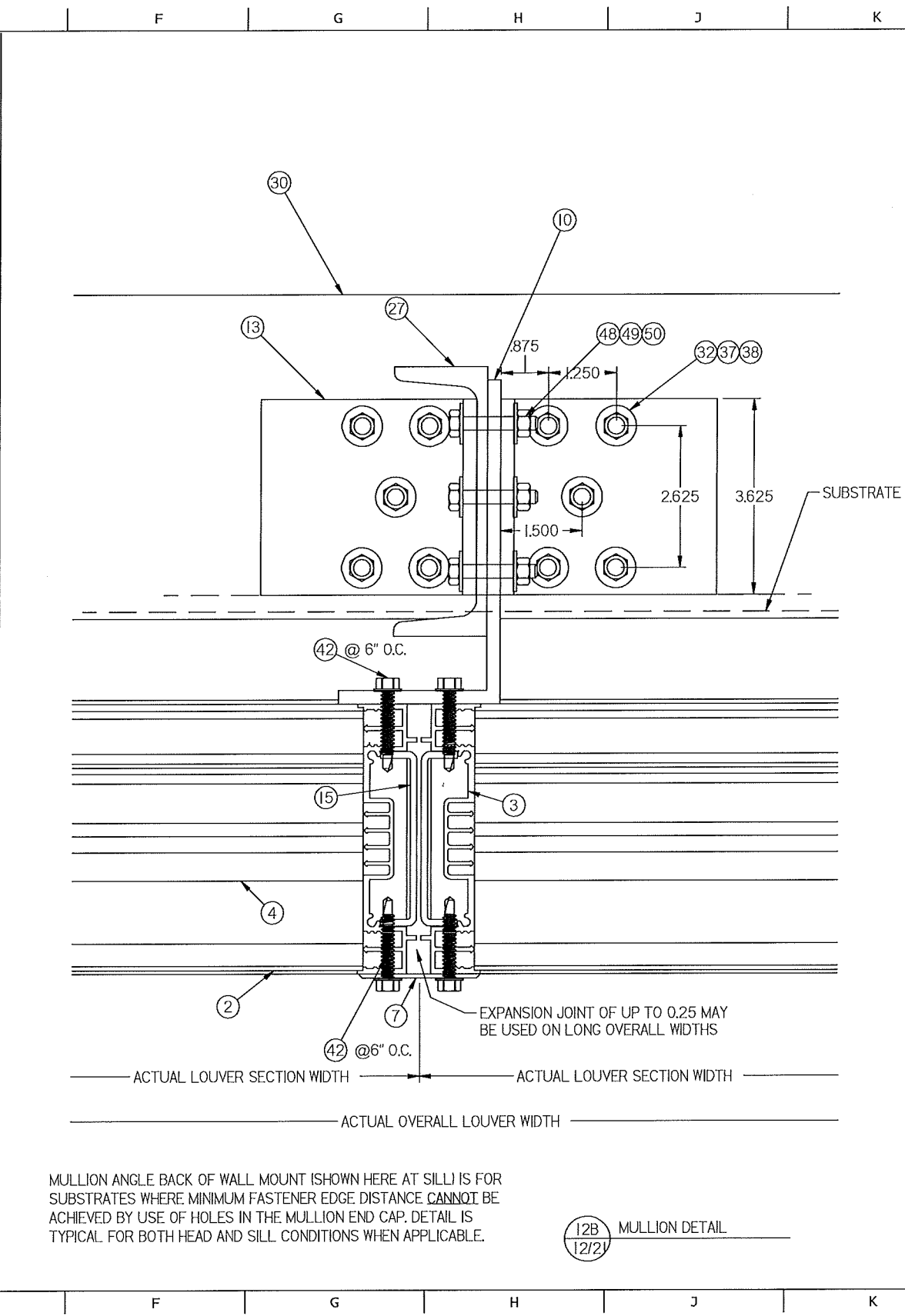
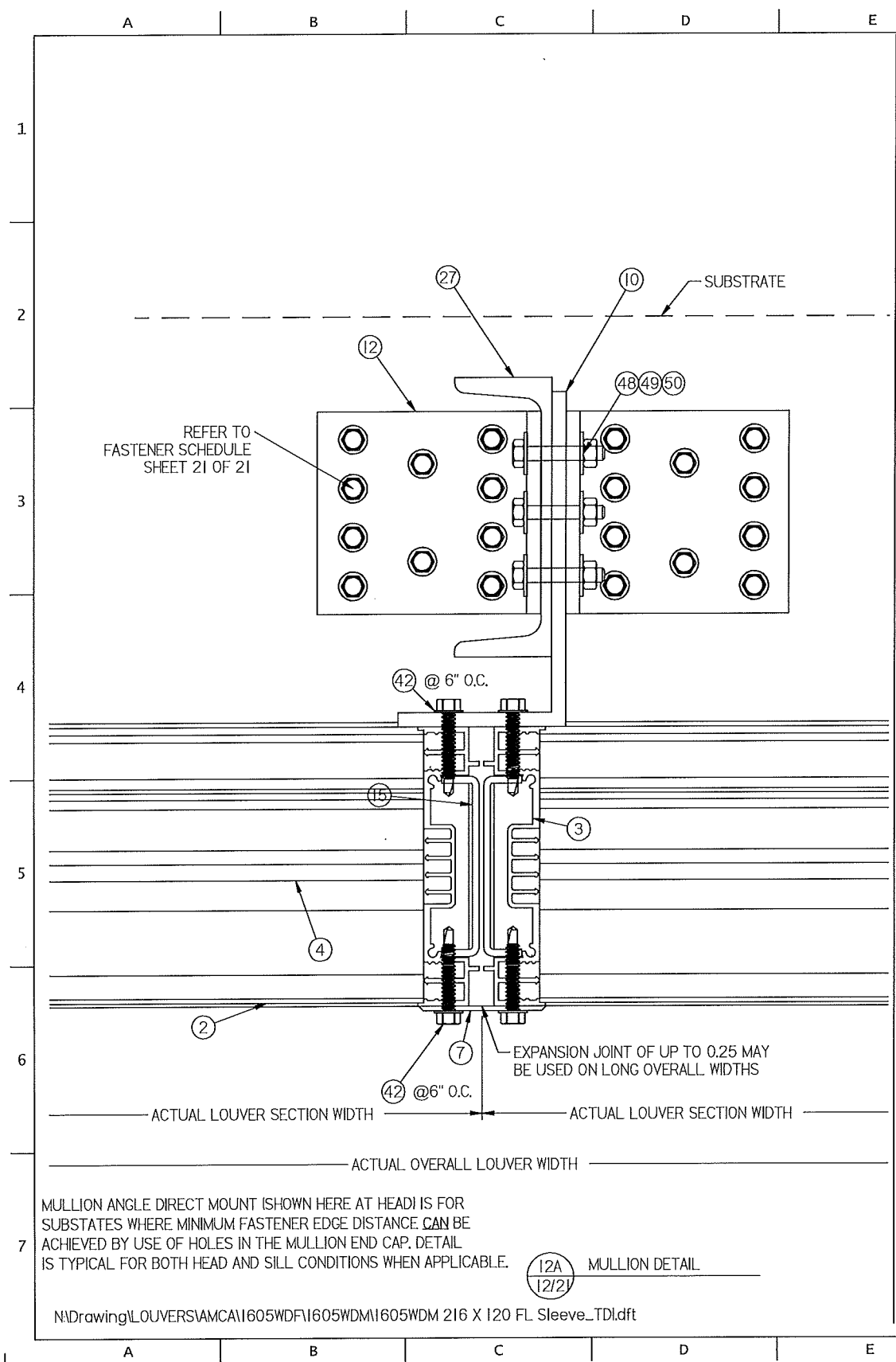
**Nailor Industries Inc.**  
 4714 Winfield Road Houston, TX 77039  
 TEL: 281-590-1172 FAX: 281-590-3086  
 www.nailor.com

TITLE:  
 1605WDM LOUVER  
 FLANGE FRAME SLEEVE MOUNT  
 MULLION DETAIL



SHEET: 11 OF 21  
 DWG. NO. 1605WDM  
 REV B

11 MULLION DETAIL  
 11/21

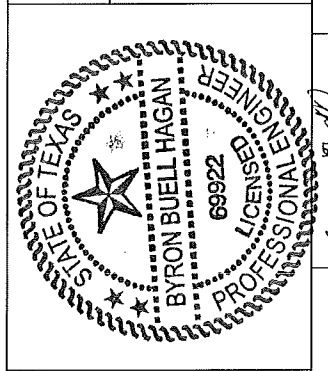


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DATE: 11/2/2020  
CHK BY: Mastourian  
SCALE: NTS

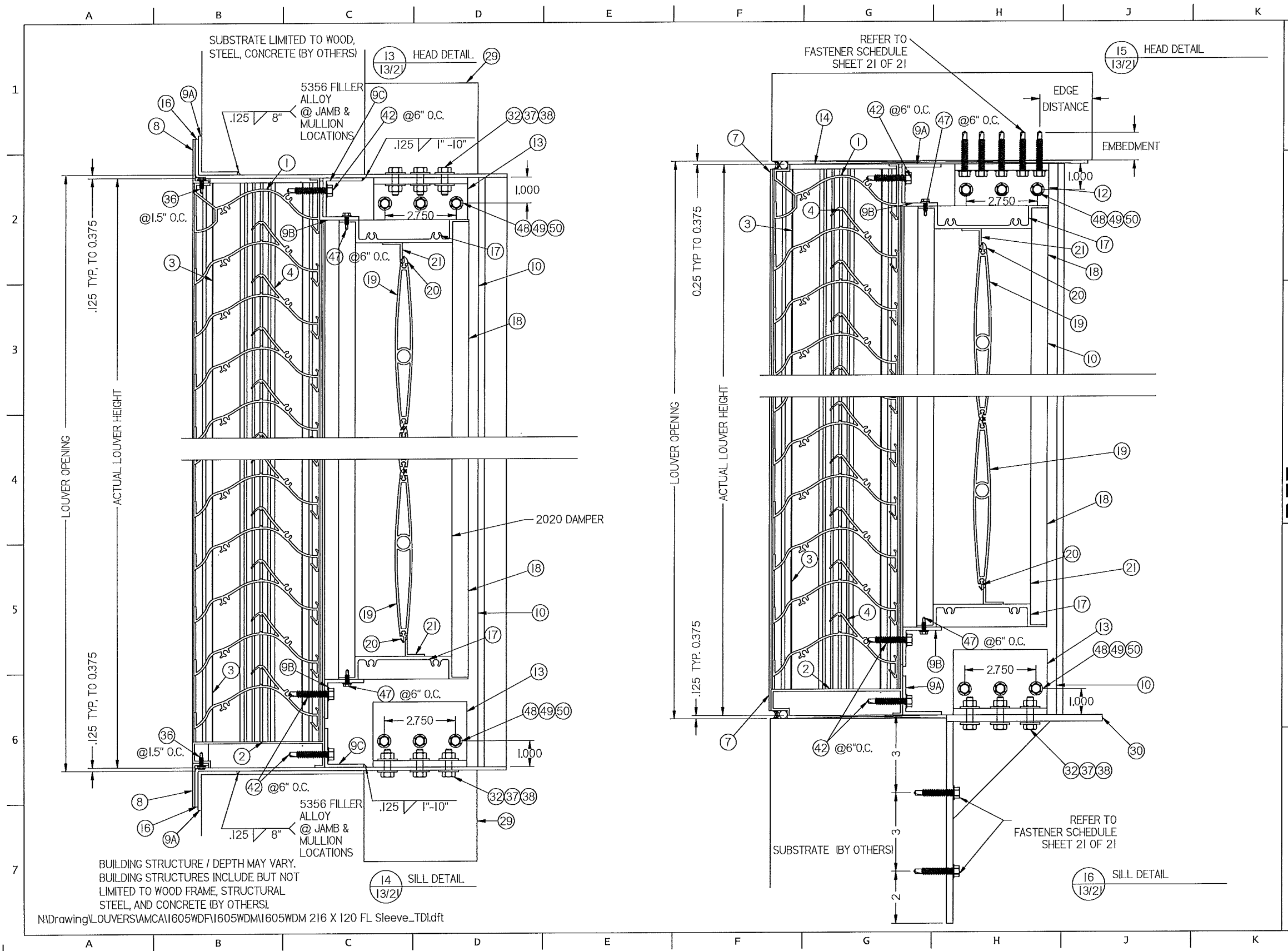
SHEET: 12 OF 21  
DWG. NO. 1605WDM  
REV B

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4714 Winfield Road Houston, TX 77039  
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www.nailor.com

TITLE:  
1605WDM LOUVER  
COUNTINOUS ANGLE MOUNT  
MULLION DETAIL

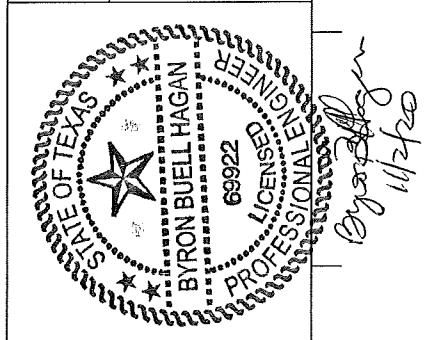


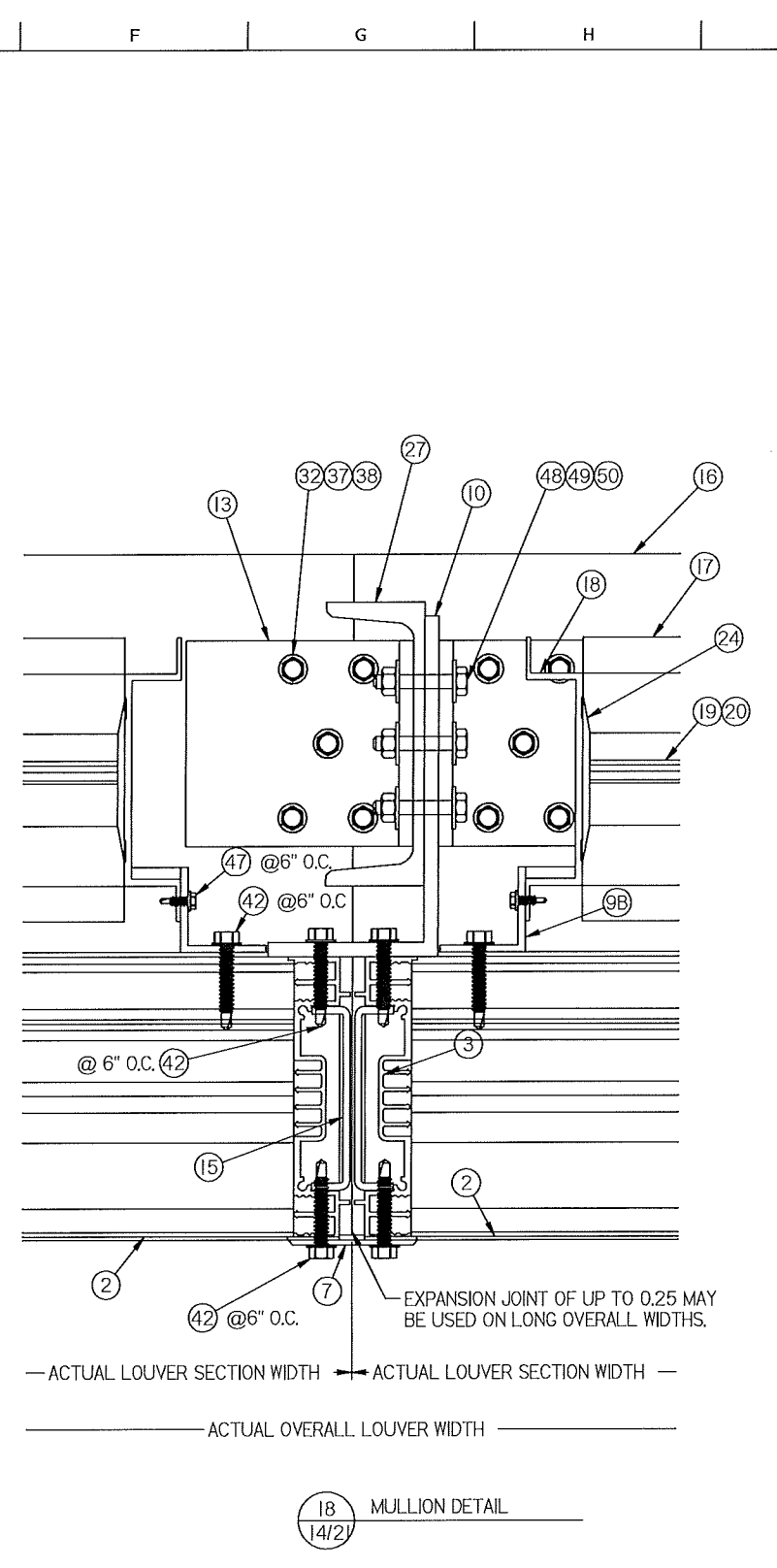
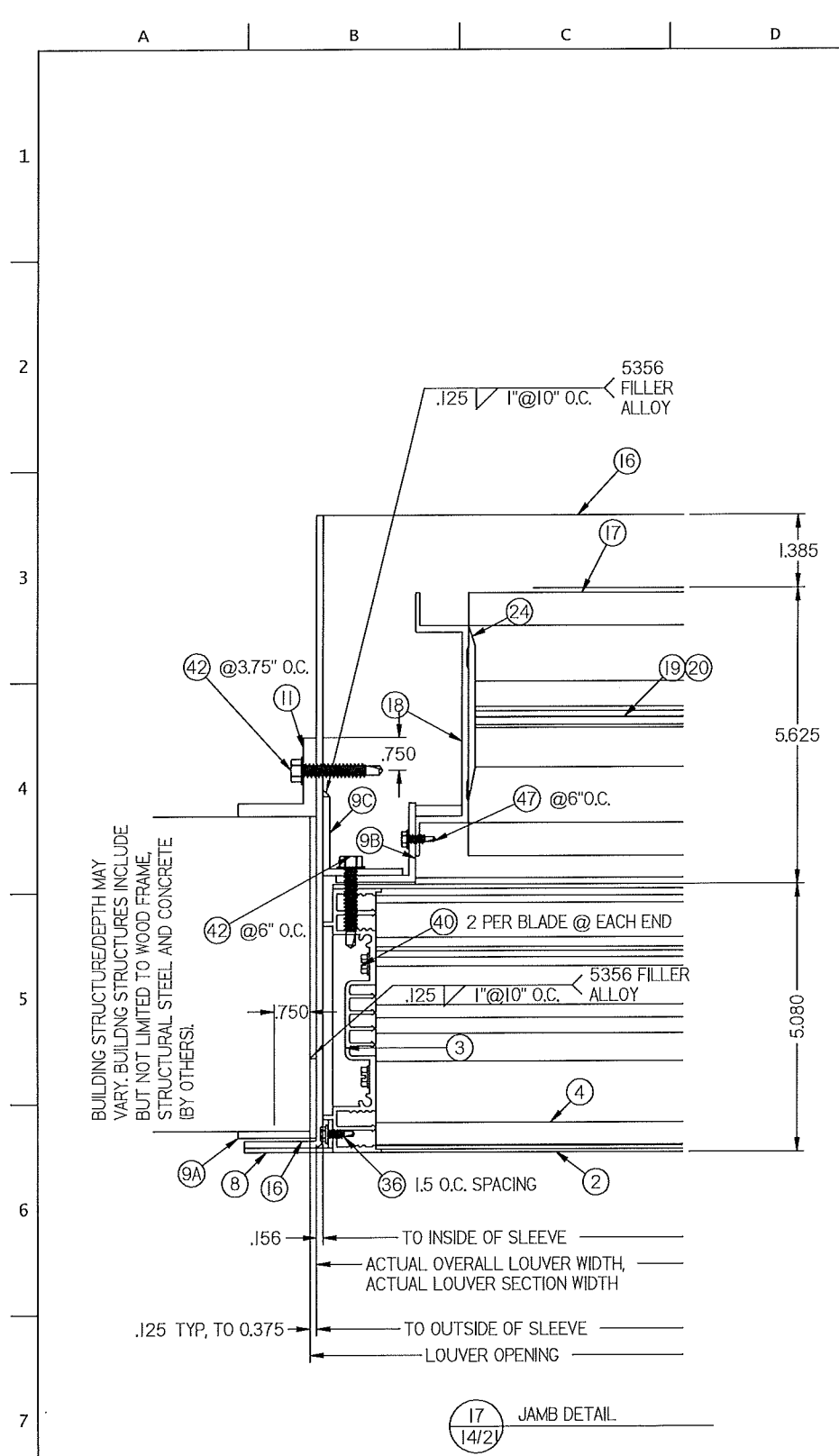
Byron Buell Hagan  
11/2/20



DWN BY: fcortinas  
 DATE: 11/2/2020  
 SCALE: NTS  
 SHEET: 13 OF 21  
 DWG. NO. 1605WDM  
 REV B

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 www.nailor.com  
 TITLE: 1605WDM LOUVER / DAMPER FLANGE FRAME W/SLEEVE CONTINUOUS ANGLE MOUNT HEAD & SILL DETAIL



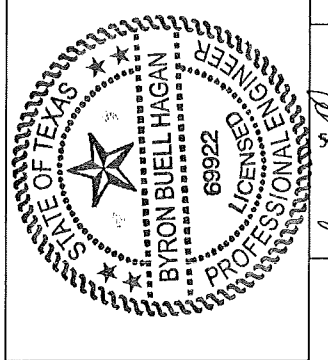


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DWN BY: fcoirtinas	CHK BY: Mastourian
DATE: 11/2/2020	SCALE: NTS
SHEET: 14 OF 21	
DWG. NO.	REV
1605WDM	B

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4714 Winfield Road Houston, TX 77039  
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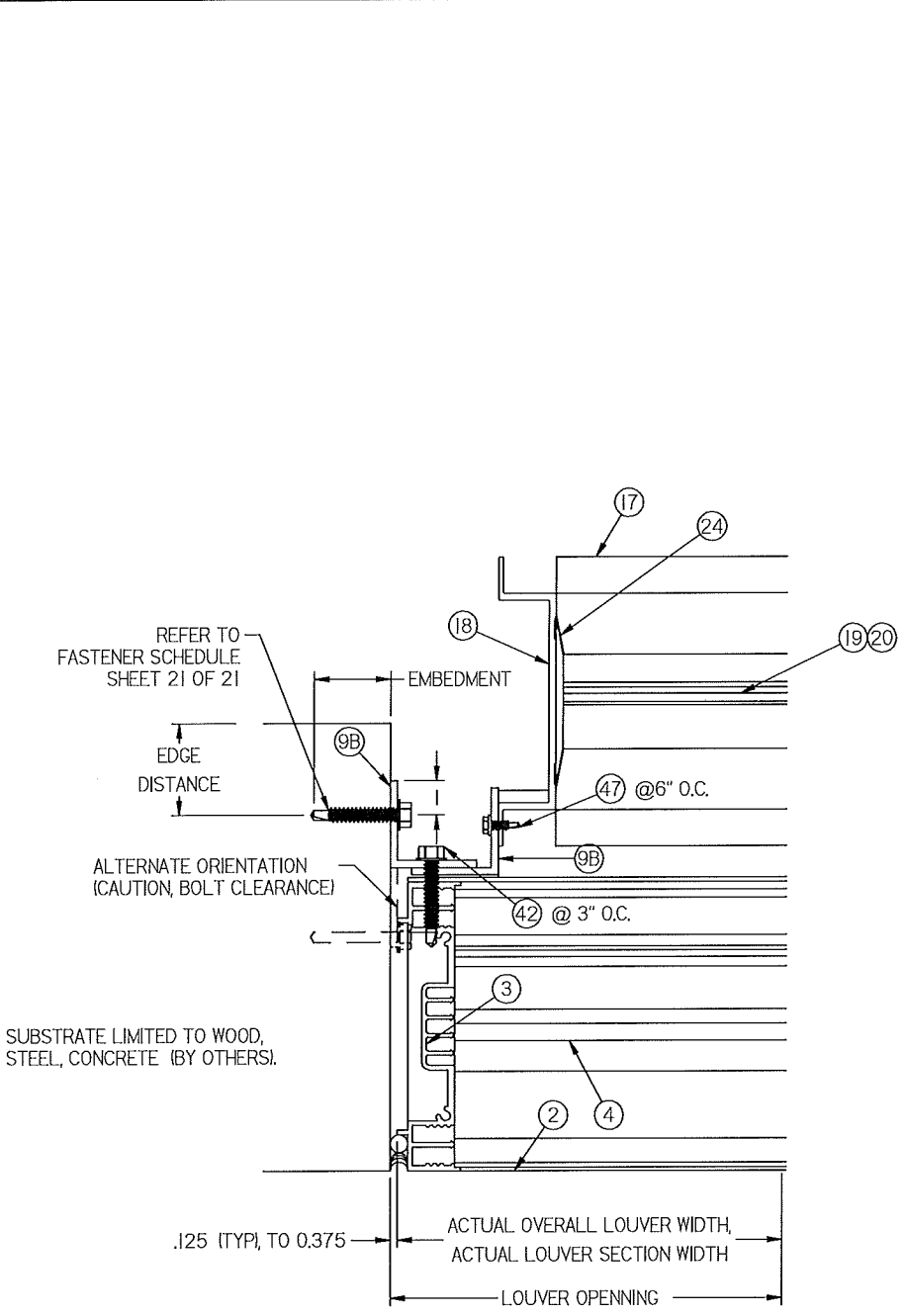
TITLE:  
1605WDM LOUVER / DAMPER  
FLANGE FRAME SLEEVE MOUNT  
JAMB AND MULLION DETAIL



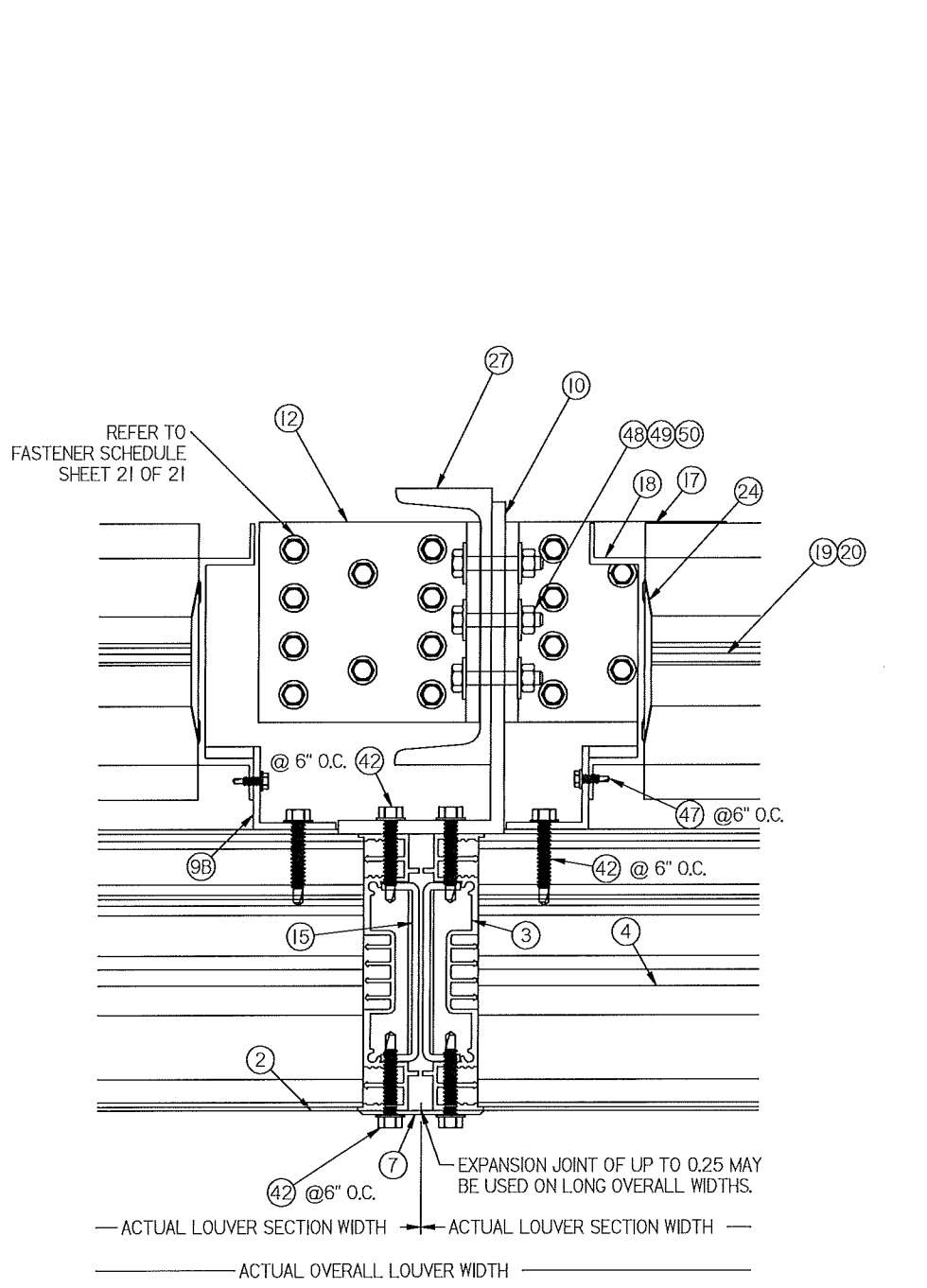
*Byron Buell Hagan*  
11/2/20

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19 JAMB DETAIL  
15/21



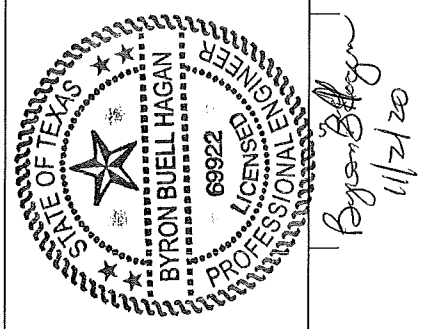
20 MULLION ANGLE DIRECT MOUNT DETAIL  
15/21

N:\Drawing\LOUVERS\AMCA\1605WDF\1605WDM\1605WDM 216 X 120 FL Sleeve\_TDI.dft

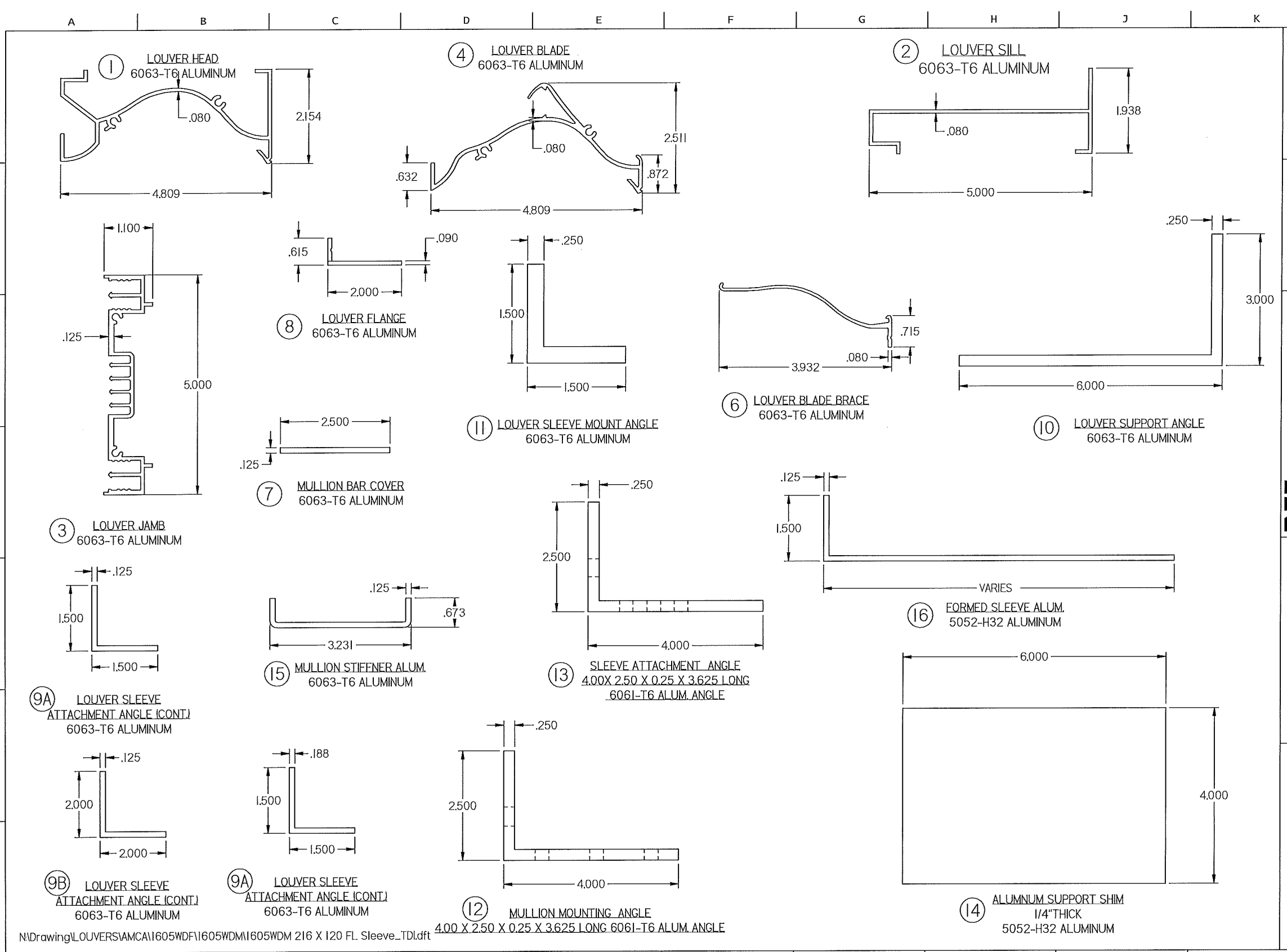
DWN BY: fcorinas	CHK BY: Mastourian
DATE: 11/2/2020	SCALE: NTS
SHEET: 15 OF 21	
DWG. NO. 1605WDM	REV B

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www.nailor.com

TITLE:  
1605WDM LOUVER / DAMPER  
CONTINUOUS ANGLE MOUNT  
JAMB AND MULLION DETAIL

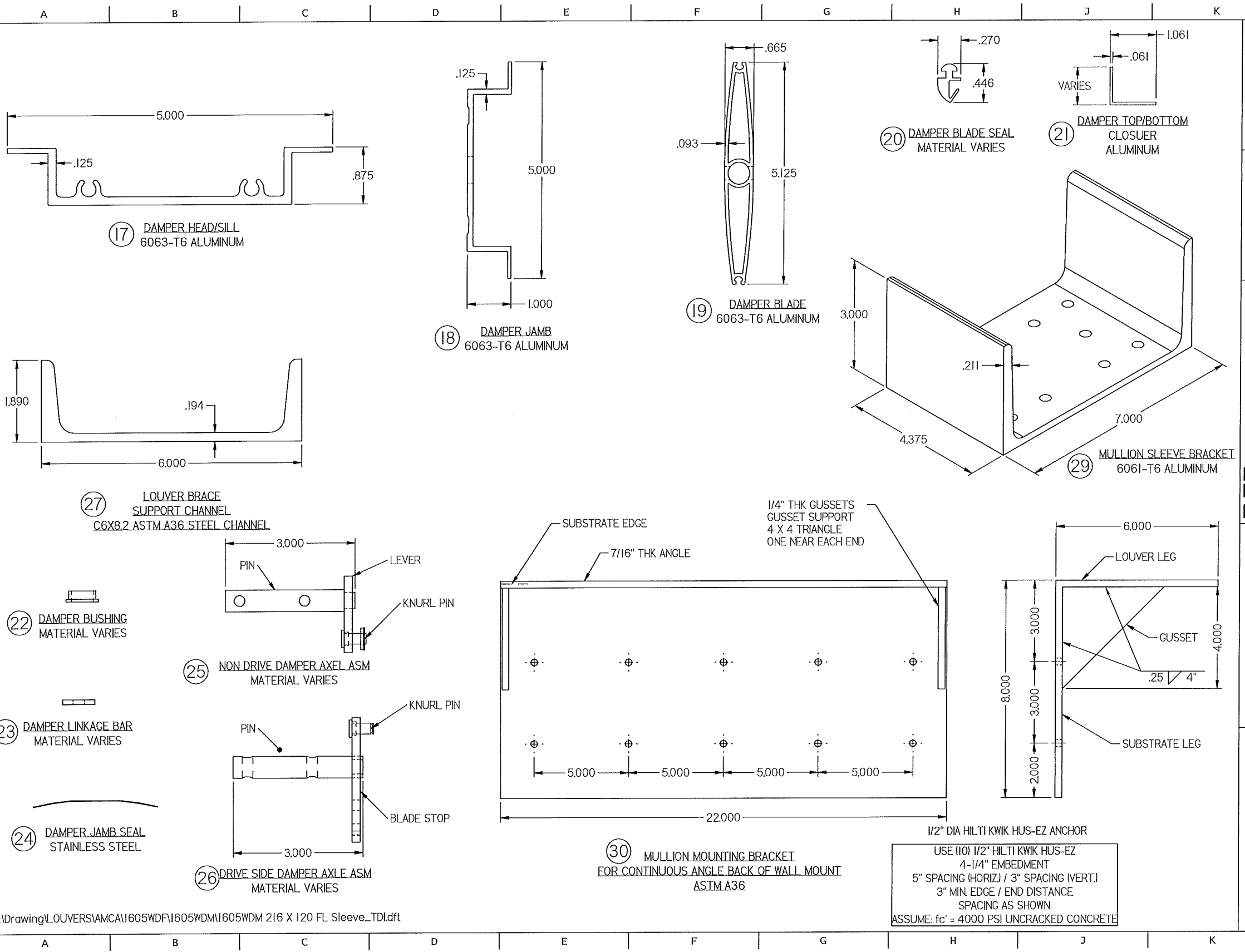






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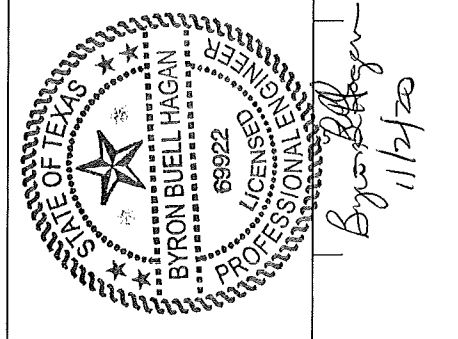
CHK BY: MASTOURIAN	SCALE: NTS	SHEET: 16 OF 21	REV B
DWN BY: fcortinas	DATE: 11/2/2020		
 4714 Winfield Road Houston, TX 77039 TEL: 281-590-1172 FAX: 281-590-3086 www.nailor.com		TITLE: 1605WDM LOUVER, W/ AND W/O DAMPER SLEEVE/CONTINUOUS MOUNT PART PROFILES	DWG. NO. <b>1605WDM</b>
 <i>Byron Buell Hagan</i> 11/2/20			
REV A: 2.500 WAS 3.000 (5E); (6D)			



N:\Drawing\LOUVERS\AMCA\1605WDF\1605WDM\1605WDM 216 X 120 FL Sleeve\_TDI.dft

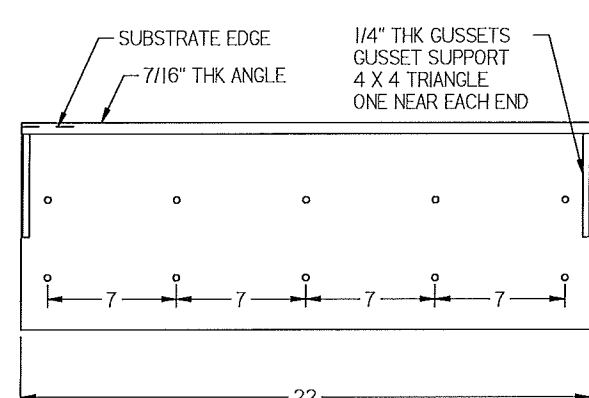
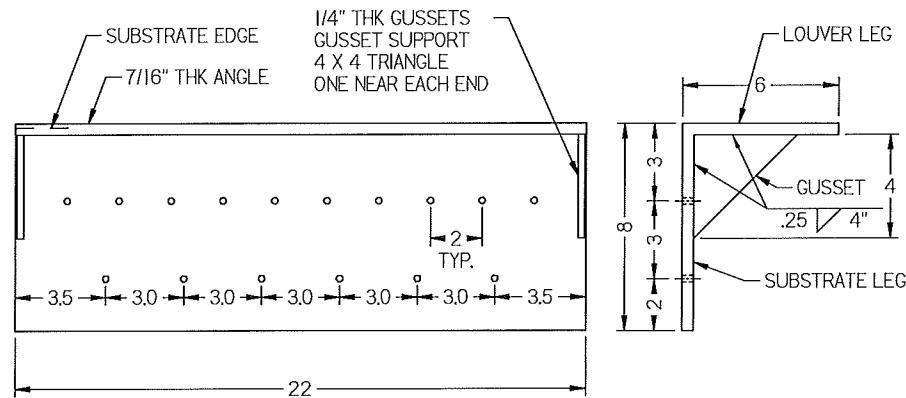
USE (10) 1/2" HILTI KWIK HUS-EZ  
 4-1/4" EMBEDMENT  
 5" SPACING (HORIZ) / 3" SPACING (VERT.)  
 3" MIN. EDGE / END DISTANCE  
 SPACING AS SHOWN  
 ASSUME: fc' = 4000 PSI UNCRACKED CONCRETE

CHK BY: Mastourian	SCALE: NTS	SHEET: 17 OF 21	REV B
DWN BY: fcartinas	DATE: 11/2/2020		
Nairor Industries Inc. 4714 Winfield Road Houston, TX 77039 TEL: 281-590-1172 FAX: 281-590-3086 www.nairor.com		TITLE: 1605WDM LOUVER W/ AND W/O DAMPER SLEEVE/CONTINUOUS MOUNT PART PROFILES	



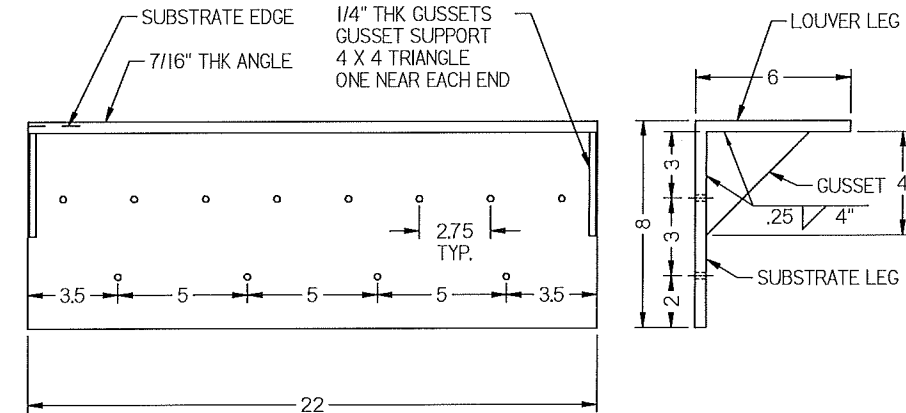
1/4" DIA LAG SCREWS ANCHORS:

USE (16) 1/4" DIA X 6" LONG STANDARD HEX LAG SCREW 6" FULL THREAD ENGAGEMENT 1" MIN. EDGE/END DISTANCE SPACING AS SHOWN ASSUME: SPRUCE/PINE/FIR, SG=0.42



3/8" DIA. LAG SCREWS ANCHORS:

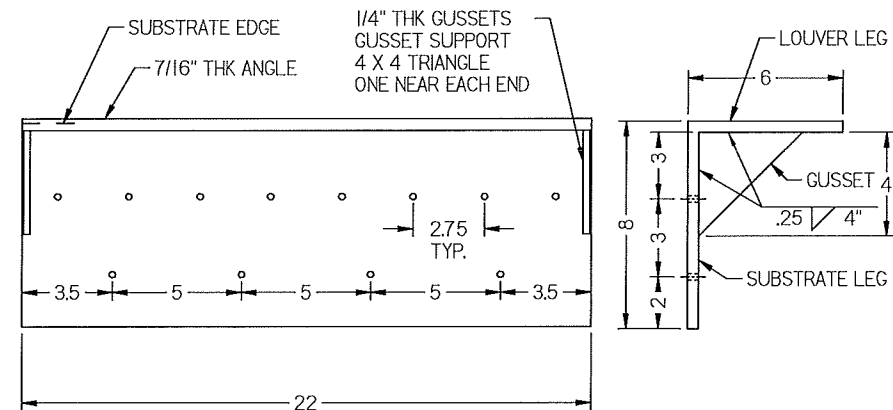
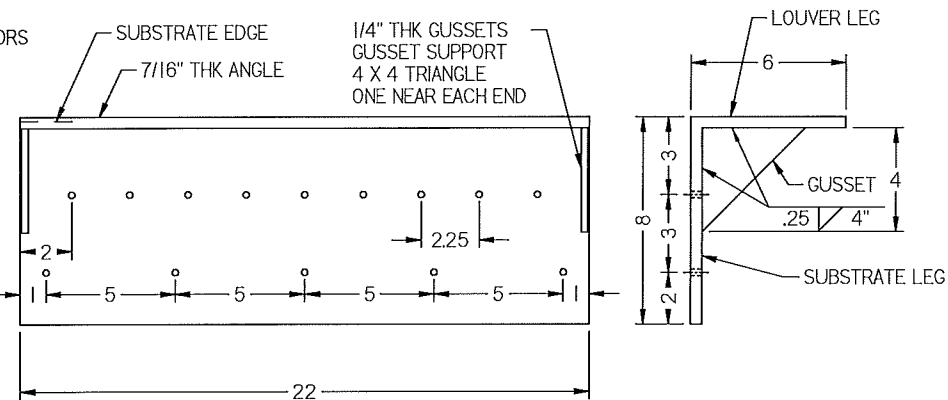
USE (12) 3/8" DIA X 6" LONG STANDARD HEX LAG SCREW 6" FULL THREAD ENGAGEMENT 1-1/2" MIN. EDGE/END DISTANCE SPACING AS SHOWN ASSUME: SPRUCE/PINE/FIR, SG=0.42



USE (10) 1/2" DIA. HILTI KWIK BOLT TZ 3-5/8" EMBEDMENT 7" SPACING (HORIZ.) / 3" SPACING (VERT.) 3" MIN. EDGE DISTANCE 4" MIN. END DISTANCE SPACING AS SHOWN ASSUME FC' = 4000 PSI CRACKED CONCRETE

1/4-20 DIA S.S. ELCO DRIL-FLEX ANCHORS

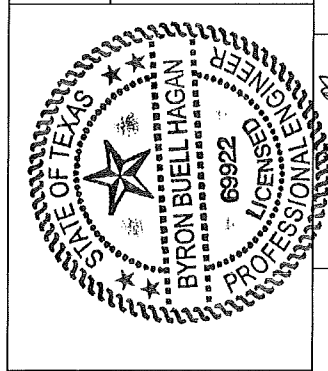
USE (14) 1/4-20 DIA. S.S. ELCO DRIL-FLEX FULL THREAD ENGAGEMENT 1" MIN. EDGE/END DISTANCE SPACING AS SHOWN ASSUME: 1/4" STEEL (A-36)



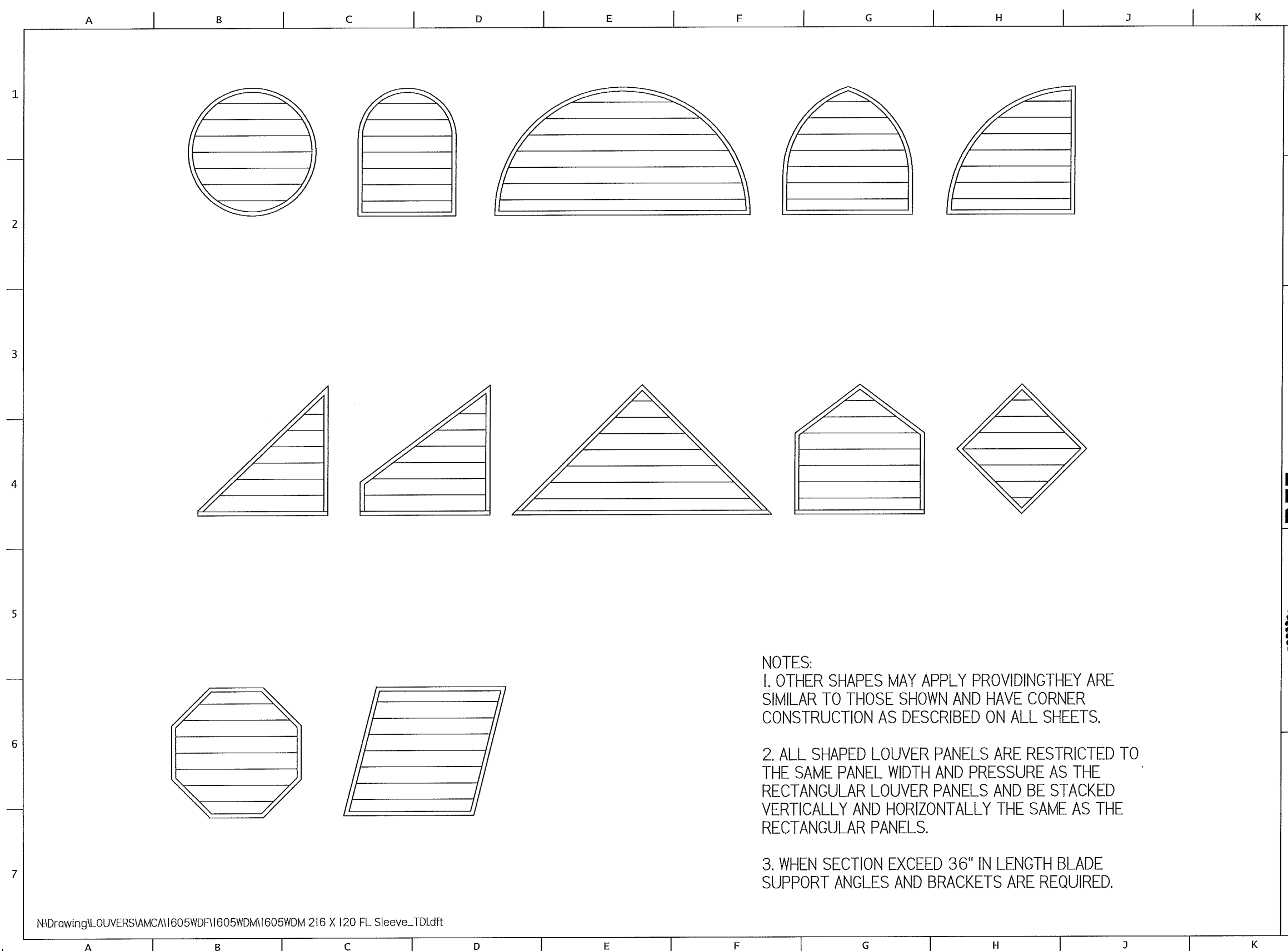
5/16-24 DIA S.S. ELCO DRIL-FLEX ANCHOR USE (12) 5/16" DIA. S.S. ELCO DRIL-FLEX FULL THREAD ENGAGEMENT 1" MIN. EDGE/END DISTANCE SPACING AS SHOWN ASSUME: 1/4" STEEL (A36)

CHK BY: Mastourian  
DWN BY: fcortinas  
DATE: 11/2/2020  
SCALE: NTS  
SHEET: 18 OF 21  
DWG. NO. 1605WDM

Nailor Industries Inc.  
4714 Winfield Road Houston, TX 77039  
TEL: 281-590-1172 FAX 281-590-3086  
www.nailor.com  
TITLE: MULLION ANGLES BACK OF THE WALL MOUNT



*Byron Buell Hagan*  
11/2/20



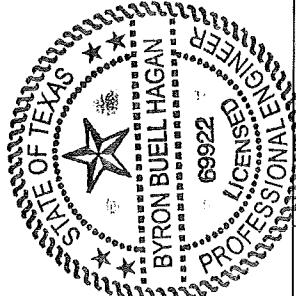
NOTES:  
 1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN AND HAVE CORNER CONSTRUCTION AS DESCRIBED ON ALL SHEETS.  
 2. ALL SHAPED LOUVER PANELS ARE RESTRICTED TO THE SAME PANEL WIDTH AND PRESSURE AS THE RECTANGULAR LOUVER PANELS AND BE STACKED VERTICALLY AND HORIZONTALLY THE SAME AS THE RECTANGULAR PANELS.  
 3. WHEN SECTION EXCEED 36" IN LENGTH BLADE SUPPORT ANGLES AND BRACKETS ARE REQUIRED.

N:\Drawing\LOUVERS\AMCA\I605WDF\I605WDM\I605WDM 216 X 120 FL Sleeve\_TDI.dft

DWN BY: fcortinas DATE: 11/2/2020	CHK BY: MAstourjan SCALE: NTS	SHEET: 19 OF 21 DWG. NO. 1605WDM REV B
	TITLE: 1605WDM LOUVER W/ AND W/O DAMPER AVAILABLE SHAPES	
Nailor Industries Inc. 4714 Winfield Road Houston, TX 77039 TEL: 281-590-1172 FAX: 281-590-3086 www.nailor.com		
<i>Byron Buell Hagan</i> 11/2/20		

BILL OF MATERIAL				
ITEM	INTERNAL ID	DESCRIPTION	MATERIAL	NOTES
1	1	C6-201	LOUVER HEAD	6063-T6 ALUMINIUM
2	2	C6-119	LOUVER SILL	6063-T6 ALUMINIUM
3	3	C6-199	LOUVER JAMB	6063-T6 ALUMINIUM
4	4	C6-200	LOUVER BLADE	6063-T6 ALUMINIUM
5	5	-	-	-
6	6	C6-202	LOUVER BLADE BRACE	6063-T6 ALUMINIUM
7	7	C6-179	MULLION BAR COVER	6063-T6 ALUMINIUM
8	8	C6-169	LOUVER FLANGE	6063-T6 ALUMINIUM
9A	9A	C6-176	1 1/2 X 1 1/2 X 1/8 ANGLE CONT.	6063-T6 ALUMINIUM USED AT HEAD/SILL/JAMB, OF LOUVER AND SLEEVE
9B	9B	C6-160	2 X 2 X 1/8 ANGLE CONT.	6063-T6 ALUMINIUM USED AS ATTACHMENT ANGLE
9C	9C		1 1/2 X 1 1/2 X 3/16 ANGLE CONT.	6063-T6 ALUMINIUM USED AT HEAD/SILL/JAMB, OF LOUVER AND SLEEVE
10	10	C6-161B	6 X 3 X 1/4 ANGLE	6061-T6 ALUMINIUM USED AT BLADE SUPPORT AND JAMB SUPPORT
11	11		1 1/2 X 1 1/2 X 1/4 ANGLE	6063-T6 ALUMINIUM USED AT HEAD/SILL/JAMB OF SLEEVE
12	12		4 X 2 1/2 X 1/4 X 3.625 LONG ANGLE	6061-T6 ALUMINIUM USED AT HEAD/ SILL OF MULLION ATTACHMENT
13	13		4 X 2 1/2 X 1/4 X 3.625 LONG ANGLE	6061-T6 ALUMINIUM USED AT HEAD/ SILL OF LOUVER SLEEVE ATTACHMENT
14	14		6 X 4 X 1/4 ALUMINUM SUPPORT SHIM	5052-H3 ALUMINIUM USED AT SILL FOR SUPPORT ANGLE
15	15		MULLION STIFFENER ALUM	6063-T6 ALUMINIUM 1/8 FORMED ALUM CHANNEL USED AT MULLION
16	16		FORMED SLEEVE	5052-H32 ALUMINIUM 1/8 FORMED SLEEVE - DEPTH VARIES
17	17	B2-610	DAMPER HEAD/SILL	6063-T6 ALUMINIUM
18	18	B2-609	DAMPER JAMB	6063-T6 ALUMINIUM
19	19	B2-527	DAMPER BLADE	6063-T6 ALUMINIUM
20	20		DAMPER BLADE SEAL	SILICONE / RUBBER TYPE MATERIAL VARIES
21	21		DAMPER TOP/BOTTOM CLOSURE	ALUMINIUM
22	22		DAMPER BUSHING	BRONZE / SS
23	23		DAMPER LINKAGE BAR	STAINLESS
24	24		DAMPER JAMB SEAL	STAINLESS
25	25		NON DRIVE DAMPER AXEL ASM	STAINLESS
26	26		DRIVE SIDE DAMPER AXLE ASM	STAINLESS
27	27		C6X8.2 STEEL CHANNEL	USED AT BLADE BLACE
28	28		NOT USED	USED AT MULLION
29	29		7" X 21" ALUMINIUM SLEEVE BRACKET	6061-T6 MULLION SLEEVE BRACKET
30	30		MULLION MOUNTING ANGLE BRACKET	ASTM A-36 MULLION MOUNTING
31	31	C6-180	SCREWMTL10-24X1HEX	
32	32	C6-181	1/4 NYLON INSERT LOCKNUT	
33	33	C6-182	1/4-20X2-1/2 HEX CAP SCREW	STAINLESS
34	34	C6-183	WASHERBONDED10X1/2	300 SERIES, SS COND. CW FY - 65 KSI
35	35	C6-184	SCREWMTL12-24-1-1/4HEX	300 SERIES, SS COND. CW FY - 65 KSI
36	36	C6-185	1/4-20X1 HEX SCREW	300 SERIES, SS COND. CW FY - 65 KSI
37	37	C6-186	1/4 COMM'L FLAT WASHER	300 SERIES, SS COND. CW FY - 65 KSI
38	38	C6-187	1/4-20X1 HEX CAP SCREW 18-8	STAINLESS
39	39	C6-188	SCREW, MTL, HEX, 8-32 X 1	300 SERIES, SS COND. CW FY - 65 KSI
40	40	C6-189	SCREW, METAL, HW, 10-24 X 1-1/2	300 SERIES, SS COND. CW FY - 65 KSI
41	41	C6-192	SCREW, MTL, HEX, 8 X 1-1/2	STAINLESS 300 SERIES, SS COND. CW FY - 65 KSI
42	42	C6-193	SCREW, METAL, HEX, 14 X 1-1/2	STAINLESS 300 SERIES, SS COND. CW FY - 65 KSI
43	43	C6-194	SCREW, METAL, HEX, 12 X 1-1/2	STAINLESS 300 SERIES, SS COND. CW FY - 65 KSI
44	44	C6-195	1/4-20 X 1 1/4 HEX CAP SCREW 18-8	STAINLESS
45	45	C6-196	1/4-20 FIN. HEX NUT 18-8	STAINLESS
46	46	C6-197	1/4 LOCKWASHER 18-8	STAINLESS
47	47	C6-198	SCREW, MTL, HEX, 8 X 3/4	STAINLESS 300 SERIES, SS COND. CW FY - 65 KSI
48	48		3/8"-16 X 2 18-6 HEX HEAD BOLT	STAINLESS 300 SERIES, SS COND. CW FY - 65 KSI
49	49		3/8-16 HEX LOCK NUT	STAINLESS 300 SERIES, SS COND. CW FY - 65 KSI
50	50		3/8-FLAT WASHER	STAINLESS 300 SERIES, SS COND. CW FY - 65 KSI

N:\Drawing\LOUVERS\AMCA\1605WDF\1605WDM\1605WDM 216 X 120 FL Sleeve\_TDI.dft

DWN BY: fcortinas DATE: 11/2/2020	CHK BY: Mastourian SCALE: NTS
	SHEET: 200F 21 DWG. NO. 1605WDM
Nalor Industries Inc. 4714 Winfield Road Houston, TX 77039 TEL: 281-590-1172 FAX 281-590-3086 www.nalor.com	TITLE: 1605WDM LOUVER W/ AND W/O DAMPER SLEEVE / CONTINUOUS MOUNT NOTES / BILL OF MATERIAL
	<i>Byron Buell Hagan</i> 11/2/20
REV A: ITEM 12 & 13 4 X 2.50 WAS 4 X 3.00 (3A)	

A B C D E F G H J K L

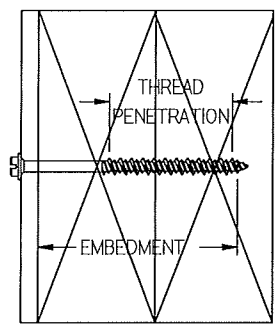
\*EMBEDMENT DEPTH IS EQUAL TO OVERALL LENGTH FOR ALL FASTENERS. IF SHIMS ARE USED, FASTENER LENGTH MUST BE INCREASED BY THICKNESS OF SHIMS

LOUVER MODEL 1605WDM FASTENER SCHEDULE															
WOOD	STEEL STUD	STEEL	CONCRETE	CMU	MIN.	FASTENER TYPE									
JAMB ANGLE MOUNT FASTENER, WIDTH <= 72 INCHES						DIAMETER	# Rqd	O.C. SPACING	EDGE	EMBEDMENT					
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)					1/4"	1	3"	2"	2"
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)					3/8"	1	5"	2"	2"
	X				16 Ga.	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)					1/4"	1	4-1/2"	2"	3 THREADS BEYOND SUBSTRATE
		X			A-36	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)					1/4"	1	13-1/2"	2"	1/4"
		X			A-36	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)					5/16"	1	16"	2"	1/4"
			X-CRACKED		4ksi	HILTI KWIK HUS-EZ **					1/4"	1	5-3/4"	4"	1 5/8"
			X-CRACKED		4ksi	HILTI KWIK HUS-EZ **					3/8"	1	8"	4"	1 5/8"
				X	1.5ksi	HILTI KWIK -CON II+					1/4"	1	4-3/4"	1-1/2"	1-3/4"
				X	1.5ksi	HILTI KWIK-BOLT 3+					3/8"	1	8"	4"	2-1/2"
MULLION ANGLE DIRECT MOUNT FASTENERS, HEIGHT <= 120 INCHES															
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)					1/4"	10	VARIES	2"	4"
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)					1/2"	6	VARIES	2"	2"
		X			A-36	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)					1/4"	4	VARIES	2"	1/4"
		X			A-36	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)					5/16"	2	2-3/4"	2"	1/4"
			X-UNCRACKED		4ksi	HILTI KWIK BOLT 3 - C.S. **					3/8"	2	4"	7"	2-5/16"
			X-CRACKED		4ksi	HILTI KWIK BOLT TZ **					5/8"	2	4"	7"	4-7/16"
MULLION ANGLE MOUNT BACK OF WALL FASTENERS, HEIGHT <= 120 INCHES															
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)					1/4"	16	VARIES	1"	6"
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)					3/8"	12	VARIES	1-1/2"	6"
		X			A-36	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)					1/4"	14	VARIES	1"	1/4"
		X			A-36	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)					5/16"	12	VARIES	1"	1/4"
			X-UNCRACKED		4ksi	HILTI KWIK HUS-EZ **					1/2"	10	VARIES	3"	4-1/4"
			X-CRACKED		4ksi	HILTI KWIK BOLT TZ **					1/2"	10	VARIES	3"	3-5/8"

GENERAL NOTES:

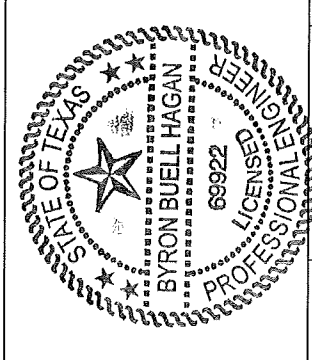
- IT SHALL BE THE RESPONSIBILITY OF THE ENGINEER OF RECORD TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THE LOUVER(S).
- THE 1605WDM WITH AND WITHOUT 2020 DAMPER HAVE BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC) AND TEST PROTOCOLS (as 100 A (WIND DRIVEN RAIN), TAS-201 (IMPACT), TAS-202 (UNIFORM STATIC PRESSURE), AND TAS-203 (CYCLIC FATIGUE)).
- MAXIMUM SINGLE SECTION SIZE IS 72" WIDE X 120" HIGH.
- MAXIMUM ASSEMBLED LOUVER SIZE IS UNLIMITED WIDE X 120" HIGH.
- 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.
- CMU SHALL BE ASTM C90, TYPE II, 2,000 MIN PSI GROUT-FILLED.
- THE SLEEVE MOUNT STYLE LOUVER UTILIZES AN ANCHORLESS INSTALLATION METHOD THAT DOES NOT REQUIRE THE USE OF FASTENERS INTO THE SUBSTRATE. IT MAY BE INSTALLED IN ANY SUBSTRATE THAT WILL WITHSTAND THE LOADS TRANSFERRED TO IT BY THE LOUVER. NAIL OR IND. DOES NOT DETERMINE THE STRUCTURAL INTEGRITY OF THE SUBSTRATE STRUCTURE.
- THE CONTINUOUS ANGLE MOUNT STYLE UTILIZES A CONTINUOUS JAMB ANGLE THAT IS ATTACHED TO THE SUBSTRATE BY FASTENERS. IT MAY BE INSTALLED IN CONCRETE, CMU, STEEL, OR WOOD ACCORDING TO THE FASTENER SCHEDULE. NAIL OR IND. DOES NOT DETERMINE THE STRUCTURAL INTEGRITY OF THE SUBSTRATE STRUCTURE.
- LOUVER ASSEMBLY IS QUALIFIED FOR A MAXIMUM DESIGN LOAD OF +/- 150 PSF.
- LOUVER ASSEMBLY WITH AND WITHOUT 2020 DAMPER SHALL ONLY 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 / WATER PROOF EQUIPMENT, COMPONENTS, AND / OR SUPPLIES.
- INSTALLER TO PROVIDE SEPERATION OF DISSIMILAR MATERIALS AS REQUIRED.
- THE DAMPER MAY BE OPERATED BY A MANUAL QUADRANT OR BY AN ELECTRIC OR PNEUMATIC ACTUATOR, THE DAMPER'S ACTUATOR IS NOT PART OF THIS APPROVAL, BUT SHALL BE CERTIFIED BY AN INDEPENDENT TESTING AGENCY.
- FRAME CONSTRUCTION, HEAD AND SILL ARE SQUARE CUT, JAMBS ARE SQUARE CUT @ HEAD AND SILL. CORNERS ARE SECURED WITH (2) #10-24 x 1 1/2 HW, BLADES ARE SECURED TO JAMBS WITH (2) #10-24 X 1 1/2 HW, @ EACH END.
- STEEL / STAINLESS-STEEL / ALUMINIUM PARTS MAY BE MADE OUT OF ALTERNATE ALLOY THAT HAS EQUAL OR GREATER YIELD STRENGTH.
- BLADE SUPPORT ANGLE AND BLADE SUPPORT BRACE ONLY REQUIRED WHEN ACTUAL LOUVER SECTION WIDTH IS GREATER THAN 36 INCHES.
- THREAD PENETRATION LENGTH SIGNIFIES THE REQUIRED LENGTH OF THE TREADED PORTION OF THE FASTENER INTO THE WOOD SUBSTRATE PROVIDING FULL CONTACT WITH WOOD. LAG SCREW TID CANNOT BE CONSIDERED PART OF THE TREADED PORTION OF THE SCREW. LAG SCREWS ARE NOT TO BE INSTALLED AT WOOD JOINTS / SPLICES WHERE THE LAG SCREW COULD FALL BETWEEN MEMBERS.  
\*\* NOTE ENGINEER OF RECORD (EOR) IS RESPONSIBLE FOR DETERMINING IF CONCRETE IS TO BE CONSIDERED CRACKED OR UNCRACKED.

N:\Drawing\LOUVERS\AMCA\1605WDM\1605WDM\1605WDM 216 X 120 FL Sleeve\_TDI.dft



DWN BY: fcoirtinas  
CHK BY: Mastourian  
SCALE: NTS  
DATE: 11/2/2020  
SHEET: 21 OF 21  
REV B  
1605WDM

Nailor Industries Inc.  
4714 Winfield Road Houston, TX 77039  
TEL: 281-590-1172 FAX: 281-590-3086  
www.nailor.com  
TITLE: 1605WDM LOUVER  
W/ AND W/O DAMPER SLEEVE  
NOTES / FASTENER SCHEDULE



*Handwritten signature and date: 11/2/20*

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