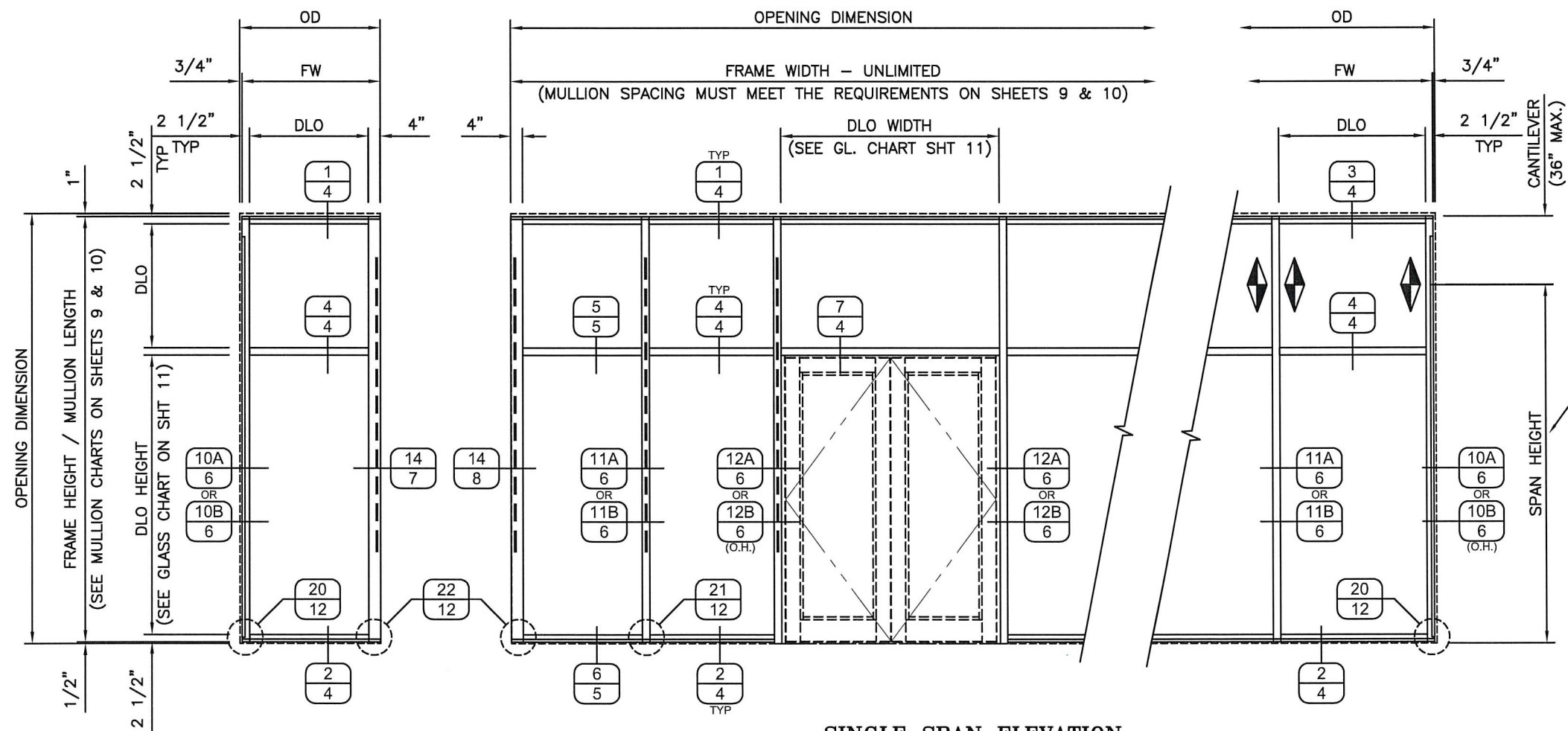


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—	—	—	—
DRAFTING REVISION	—	4/13/21	—
1ST SUBMITTAL	—	10/12/20	—
PRINTS ISSUED FOR	REV.#	DATE	

SINGLE SPAN ELEVATIONS



— AT SINGLE SPAN ELEVATIONS WITH A CANTILEVER, THE SPAN HEIGHT IS LIMITED TO THE MULLION HEIGHTS SHOWN IN THE MULLION CHARTS ON SHEETS 9 & 10, AND THE CANTILEVER IS LIMITED TO 36" MAX.

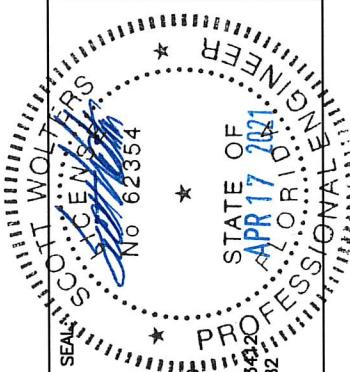
SINGLE SPAN ELEVATION
(NOT TO SCALE)



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NORCROSS, GA 30092



SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33411
PH/FAX:(561) 225-1982

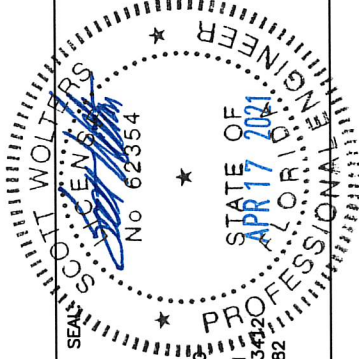
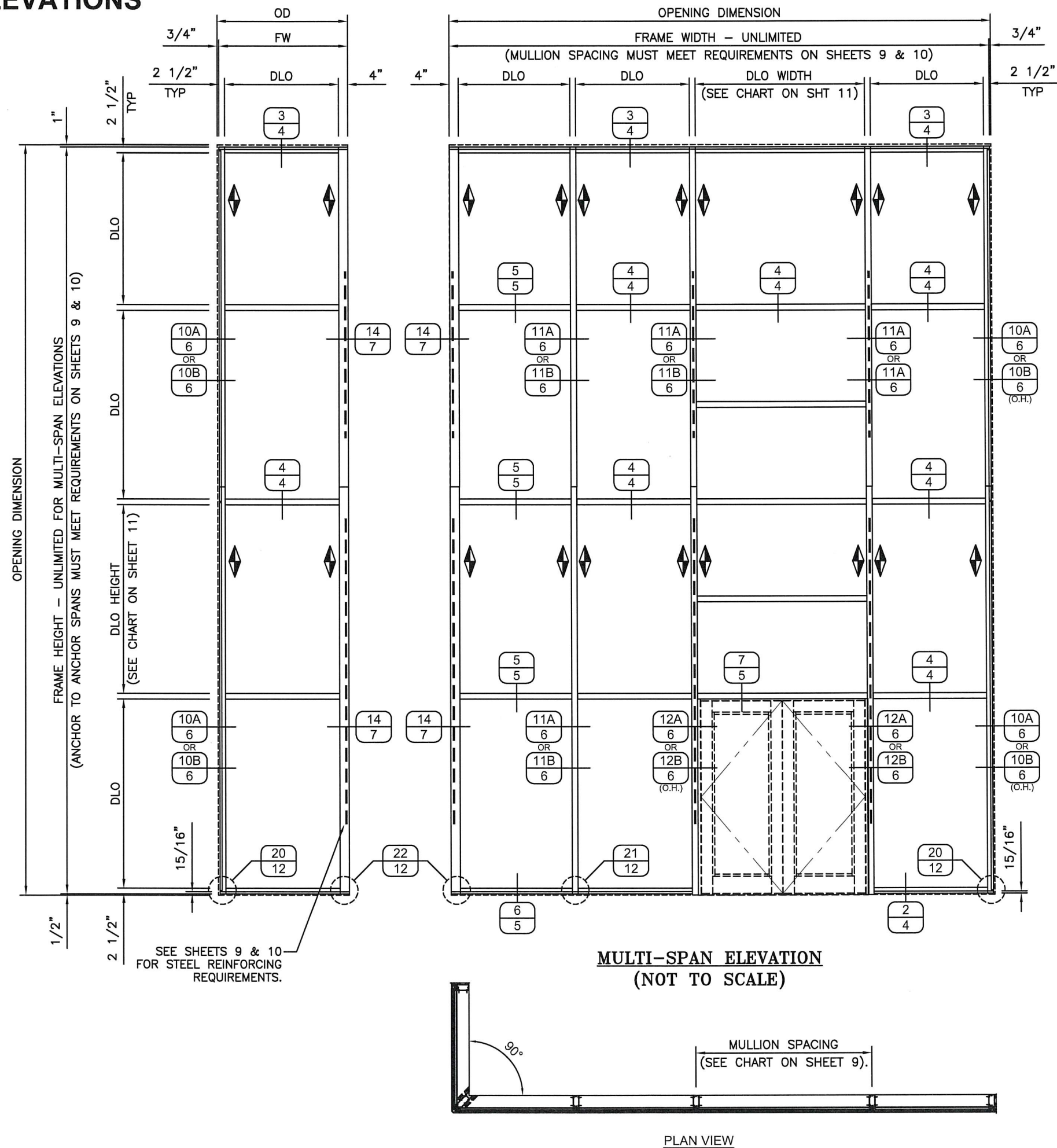
PRODUCT:
**CLEARWALL
CURTAINWALL
SYSTEM**

DWG: CLRWL-IR

SECTION: 2

SHEET:	2/16
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MULTI-SPAN ELEVATIONS



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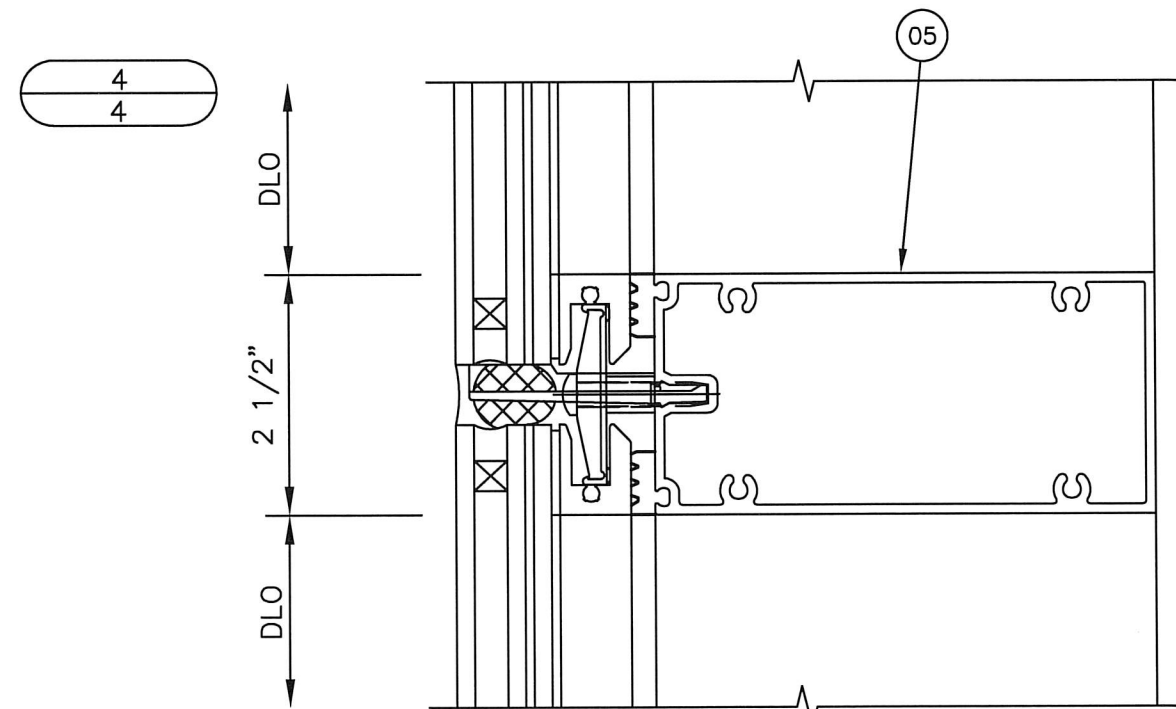
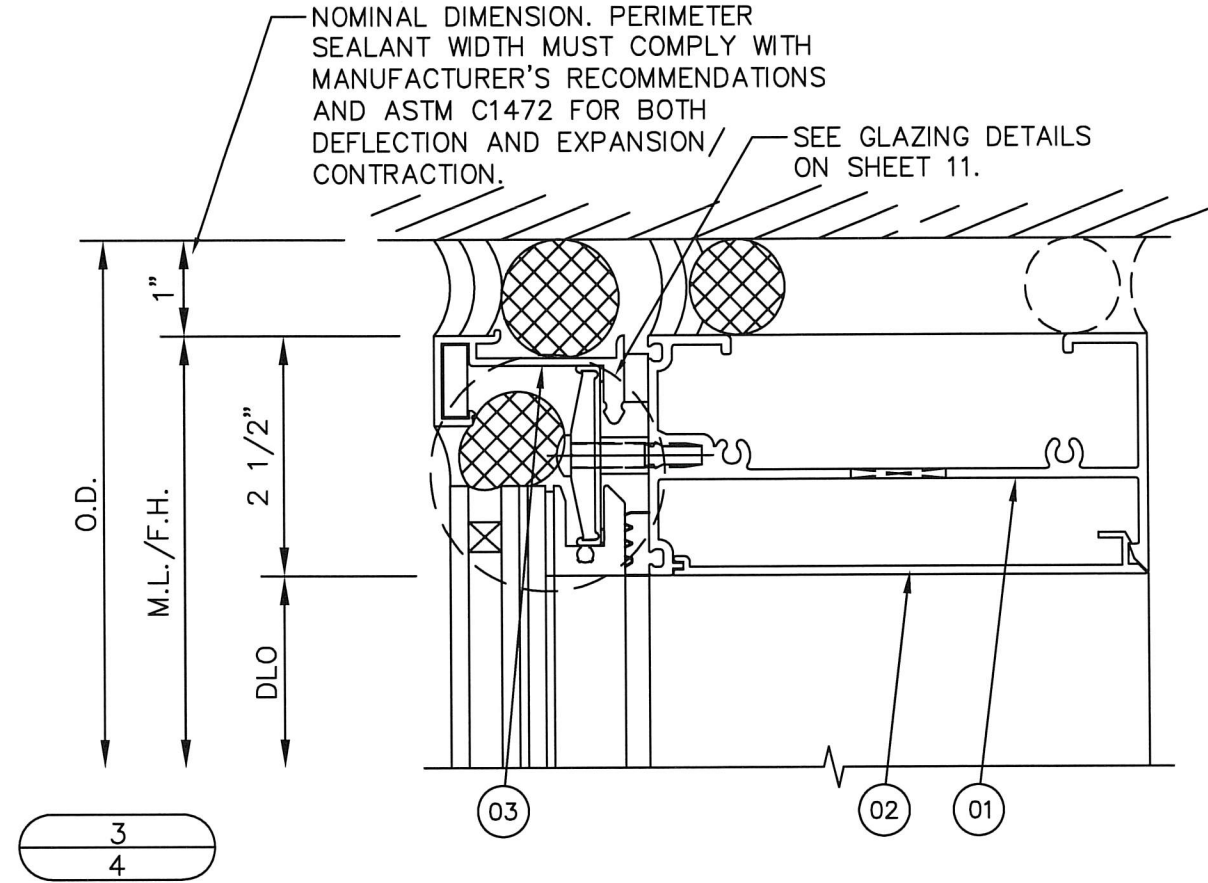
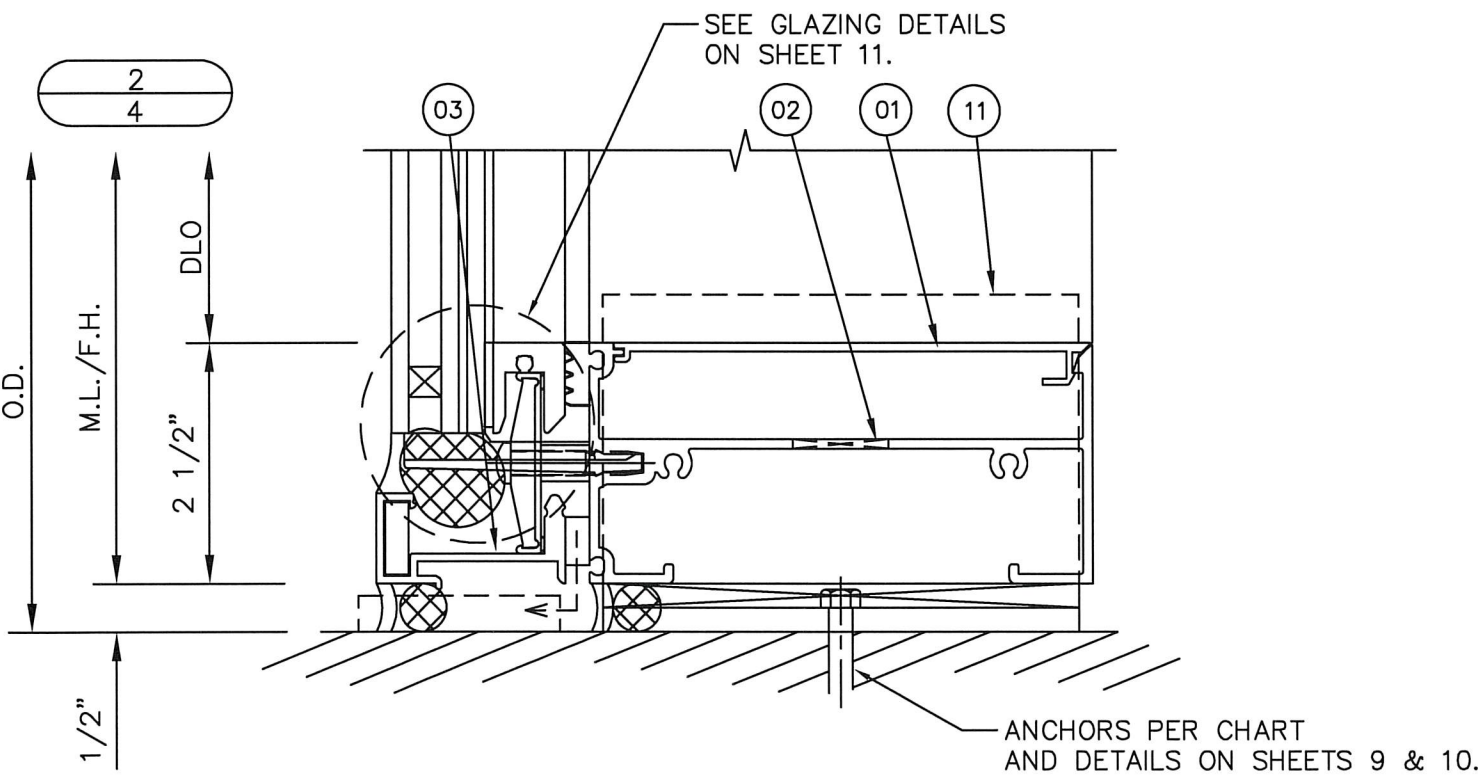
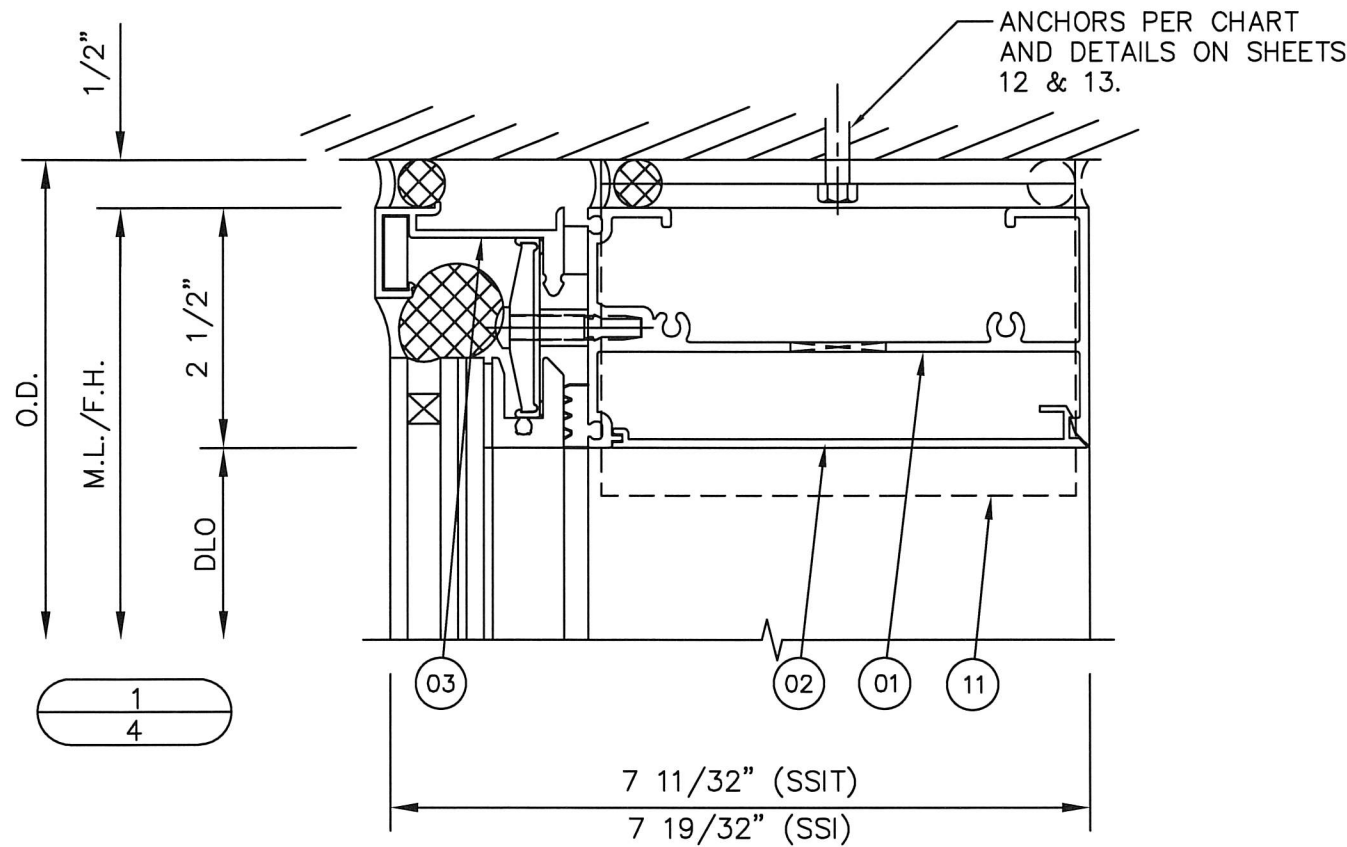
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PRODUCT:	CLEARWALL CURTAINWALL SYSTEM
DWG:	CLRWL-IR
SECTION:	2
SHEET:	3/16

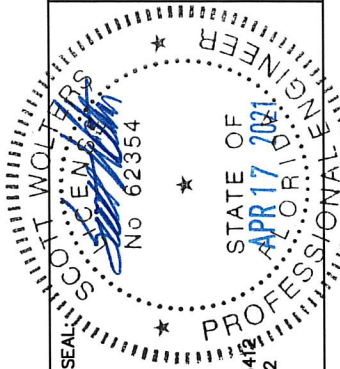
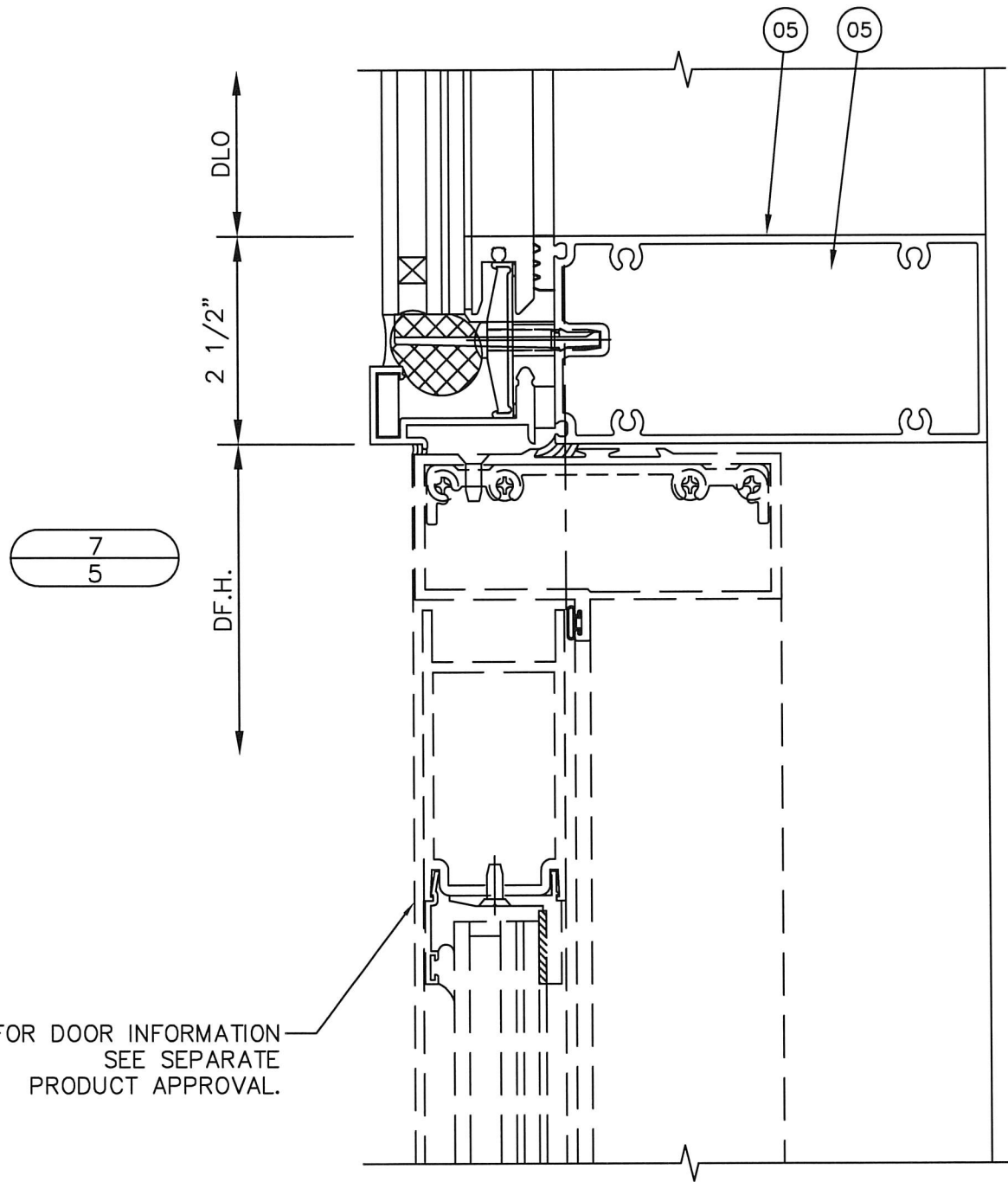
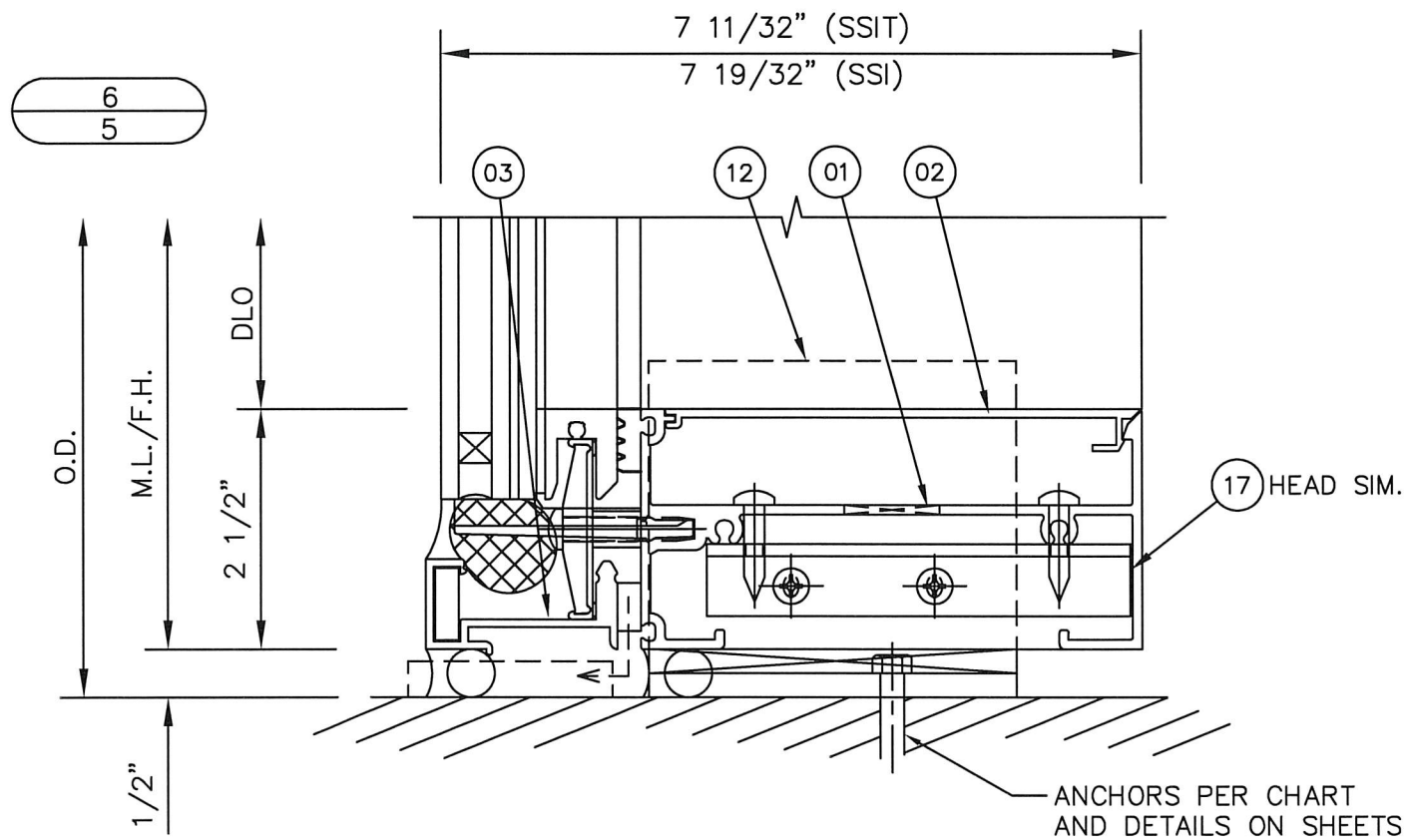
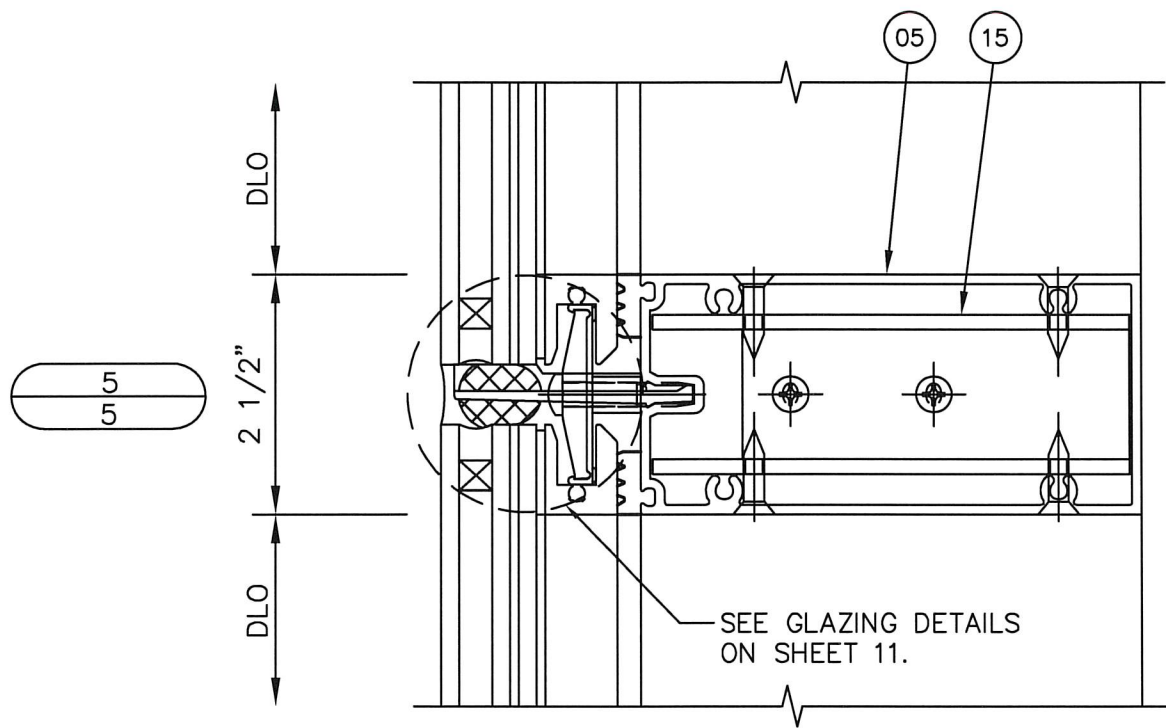
DRAFTING REVISION	4/13/21	REV.#	DATE
1ST SUBMITTAL	10/12/20	PRINTS ISSUED FOR	

HEAD/SILL/HORIZONTAL DETAILS



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555 GUTHRIDGE COURT NORCROSS, GA 30092		DRAFTING REVISION		DATE	
SCOTT WOLTERS FL PE# 62354		1ST SUBMITTAL		4/13/21	
WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33413 PH/FAX: (561) 225-1982		PRINTS ISSUED FOR		REV.#	
PRODUCT: CLEARWALL CURTAINWALL SYSTEM		DWG: CLRWL-IR		3	
SECTION:		SHEET:		4/16	

HEAD/SILL/HORIZONTAL DETAILS



SCOTT WALTERS
FL PE# 62354
WALTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

PRODUCT:
CLEARWALL
CURTAINWALL
SYSTEM

DWG: CLRWL-IR

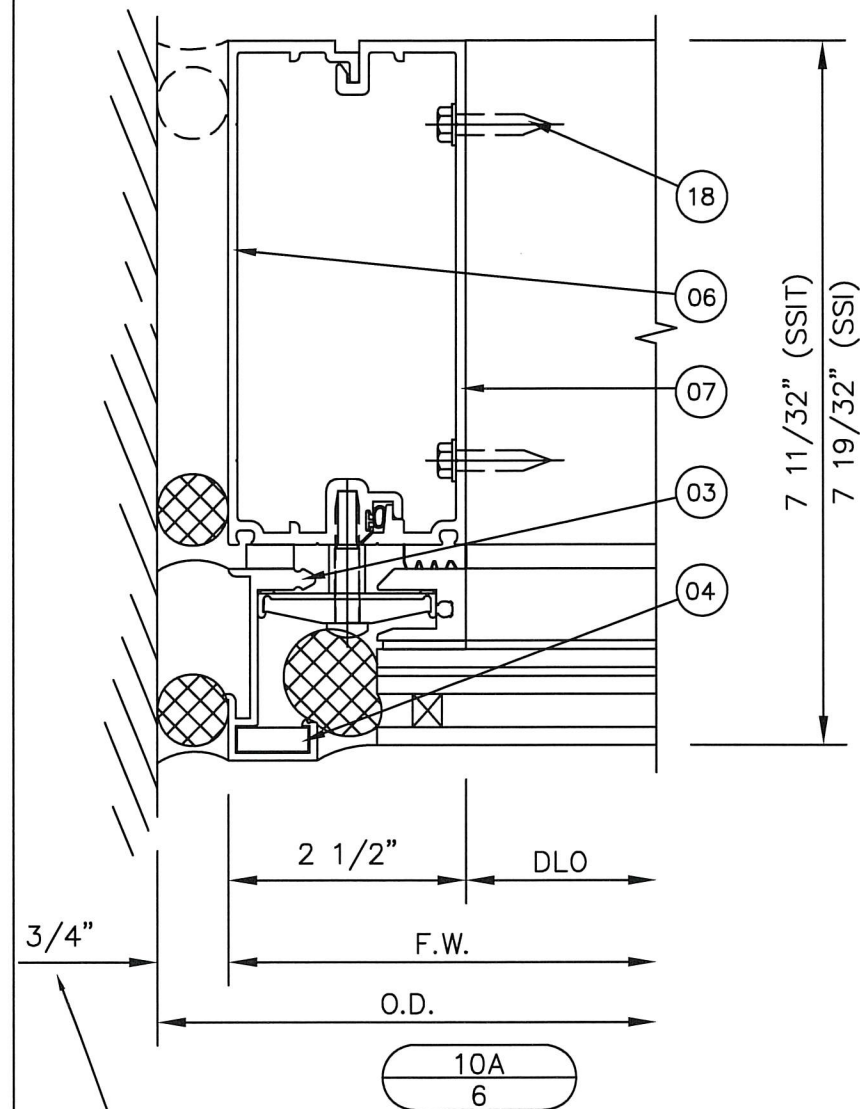
SECTION: 3

SHEET: 5/16

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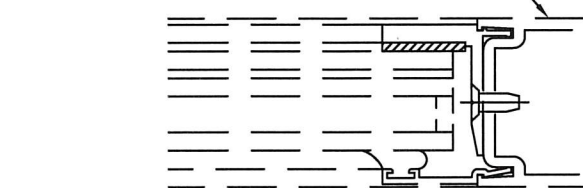
REV.#	DATE	PRINTS ISSUED FOR	REV.#
1	10/12/20	1ST SUBMITTAL	1
2	4/13/21	DRAFTING REVISION	2

JAMB/MULLION DETAILS

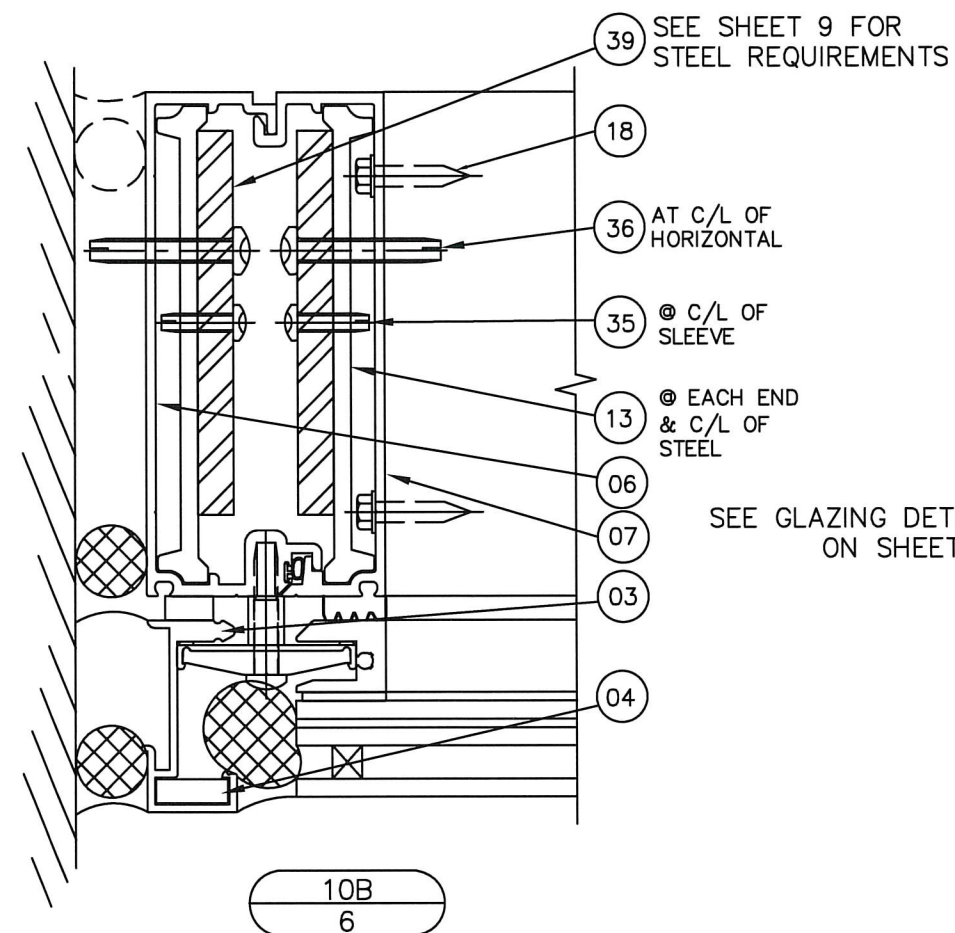


-NOMINAL DIMENSION. PERIMETER SEALANT WIDTH MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS AND ASTM C1472.

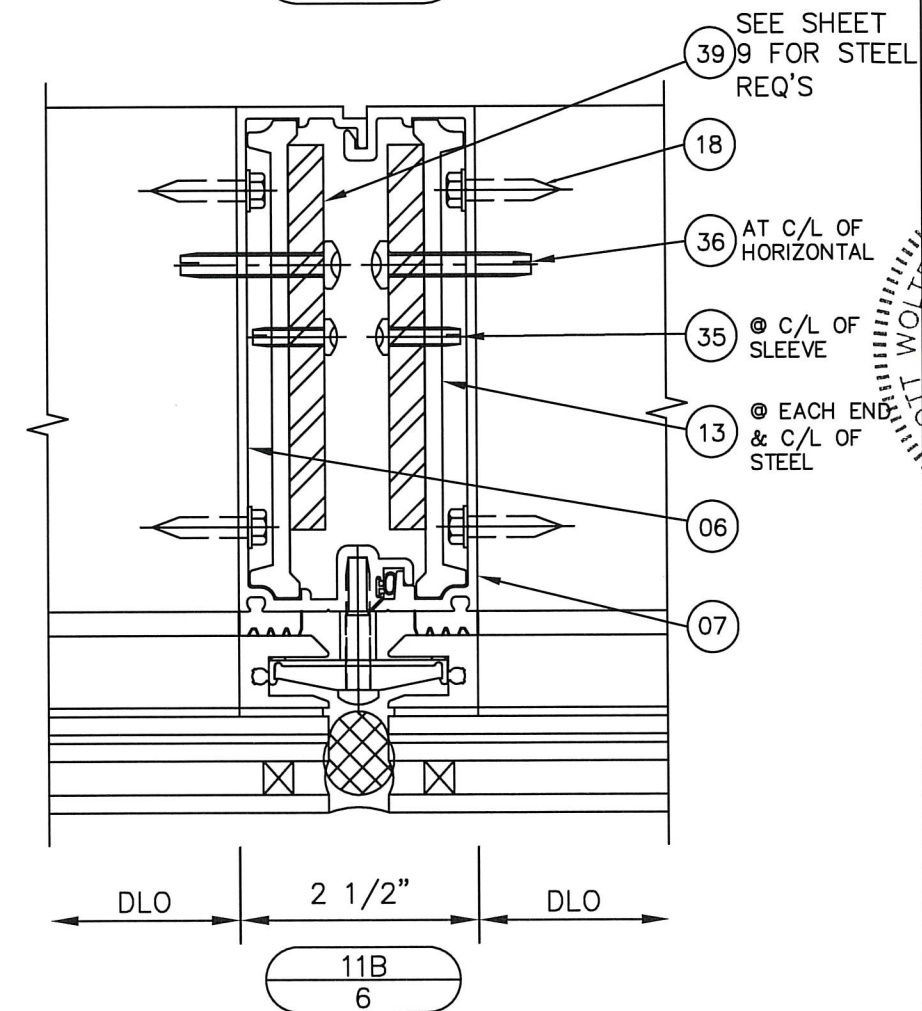
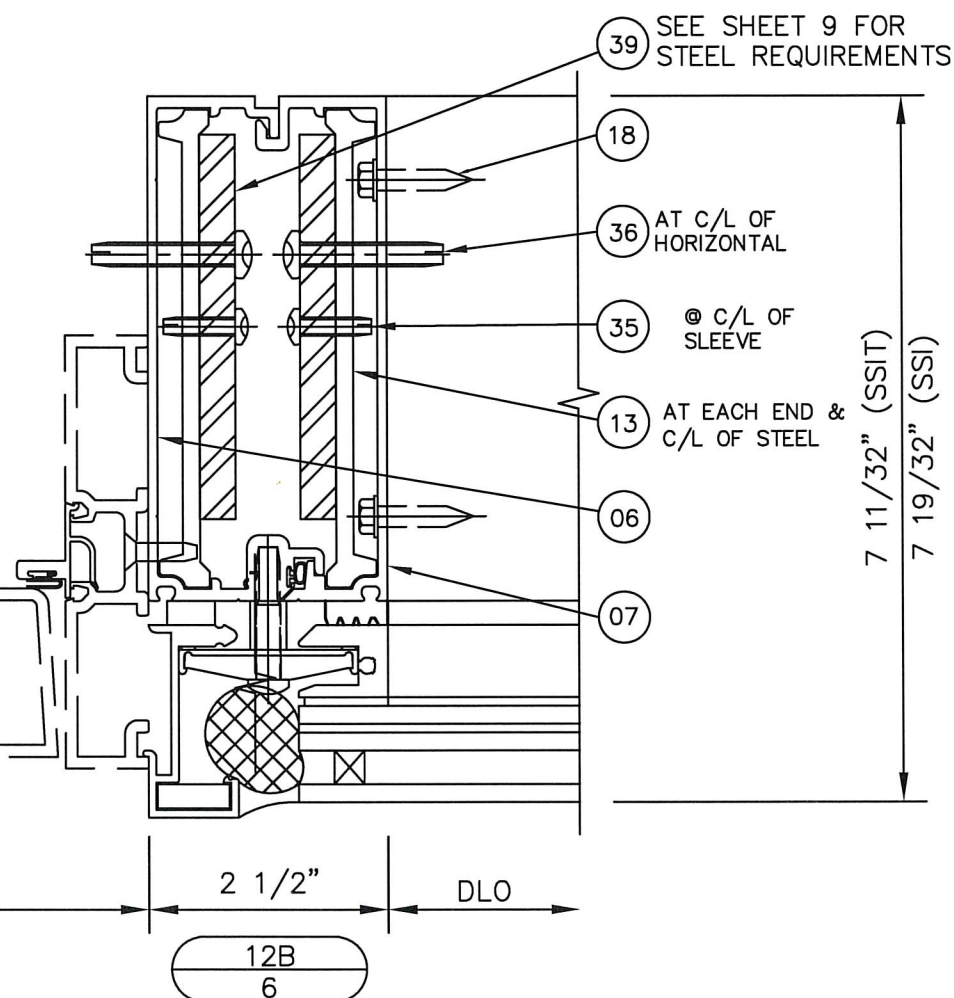
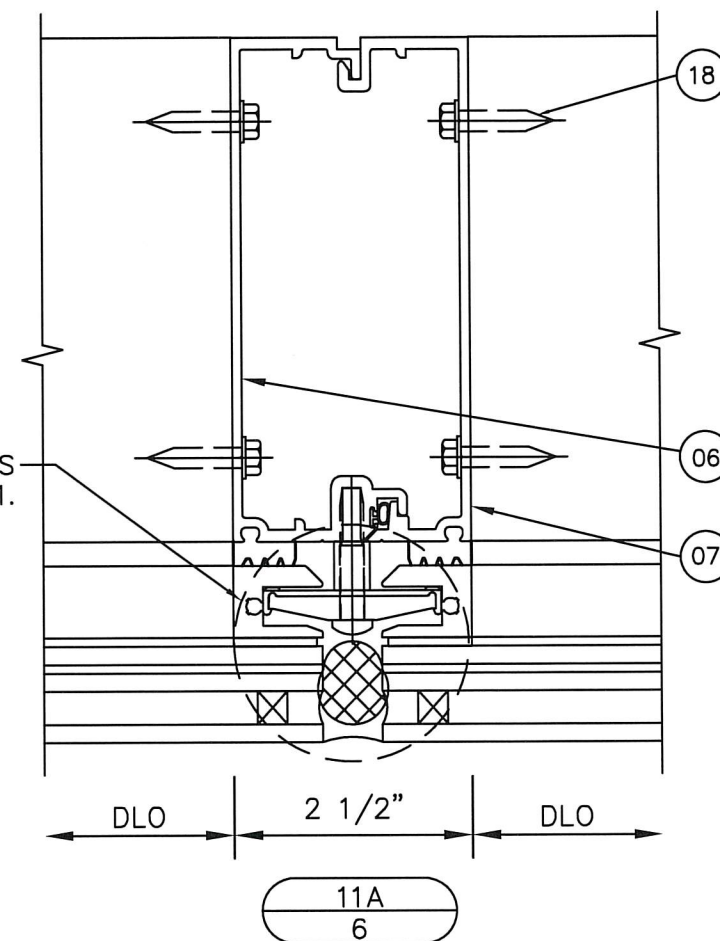
FOR DOOR INFORMATION
SEE SEPARATE
PRODUCT APPROVAL.



(NO STEEL)

$$\frac{12A}{6}$$


SEE GLAZING DETAILS
ON SHEET 11.



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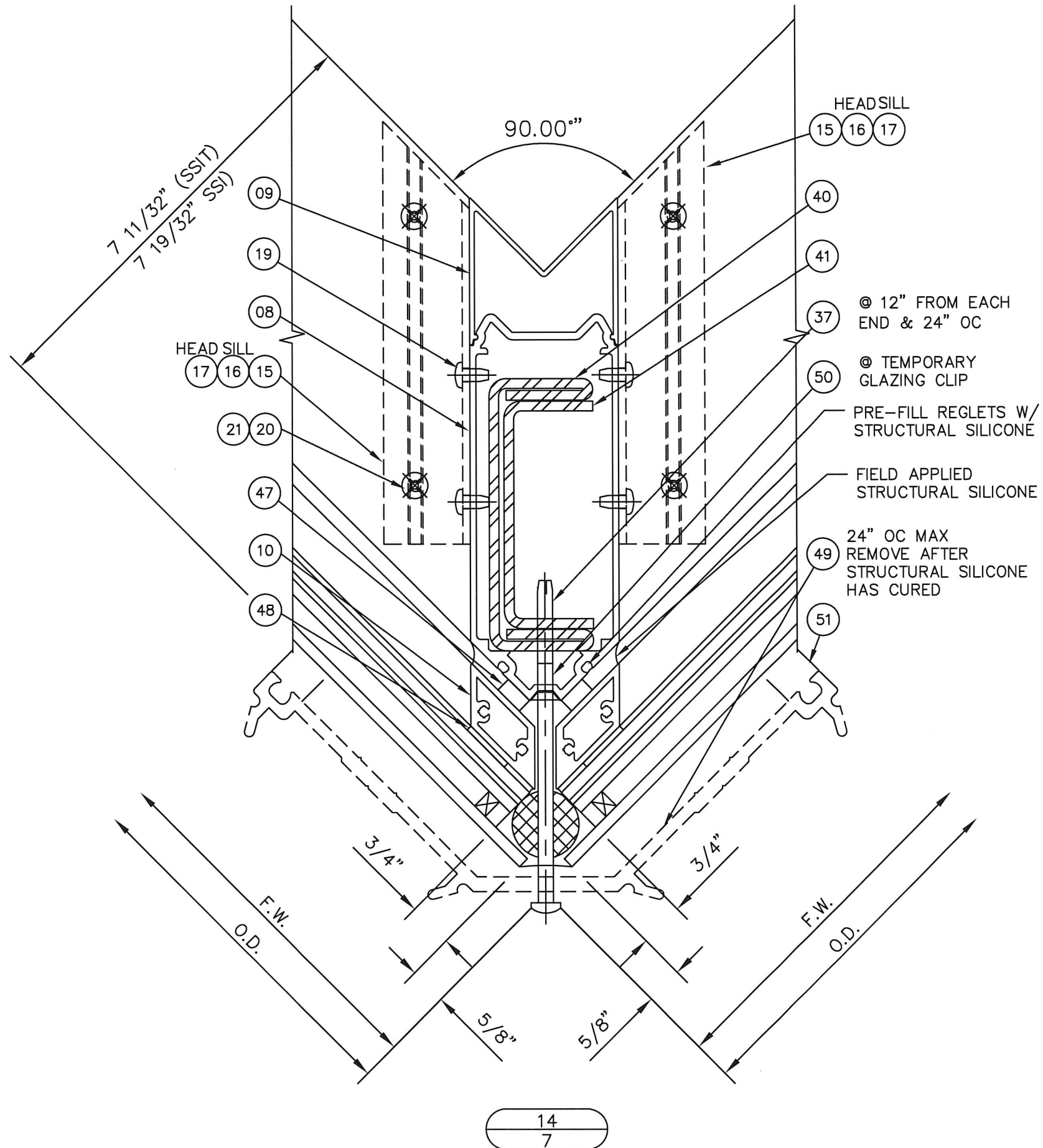
SEAL OF THE FLORIDA BOARD OF PROFESSIONAL ENGINEERS
No 62354
★
STATE OF FLORIDA
APR 17 2021
SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

PRODUCT:
**CLEARWALL
CURTAINWALL
SYSTEM**

DWG:	CLRWL-IR
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SECTION:	3
SHEET:	6/10

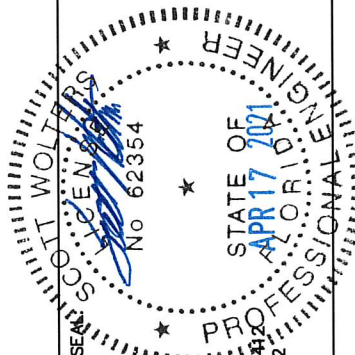
CORNER DETAILS



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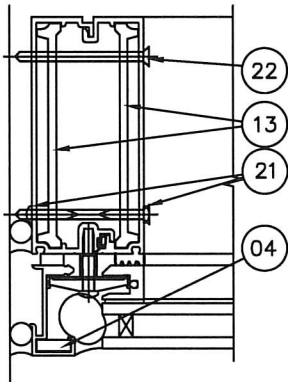
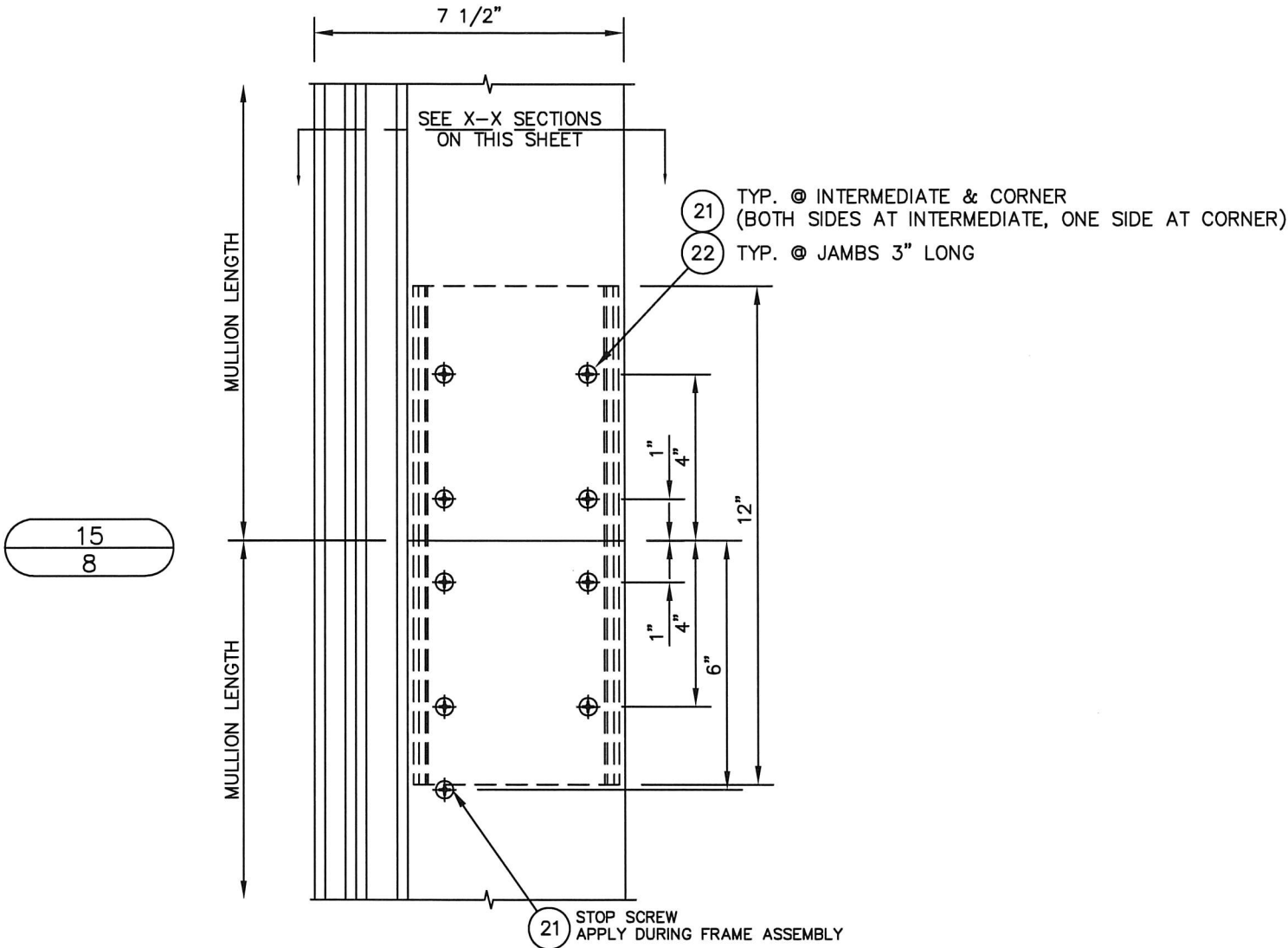
PRODUCT:
CLEARWALL
CURTAINWALL
SYSTEM

DWG:	CLRWL-IR
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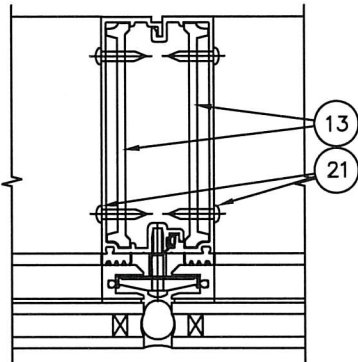
SECTION:	3
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SHEET:	7/16
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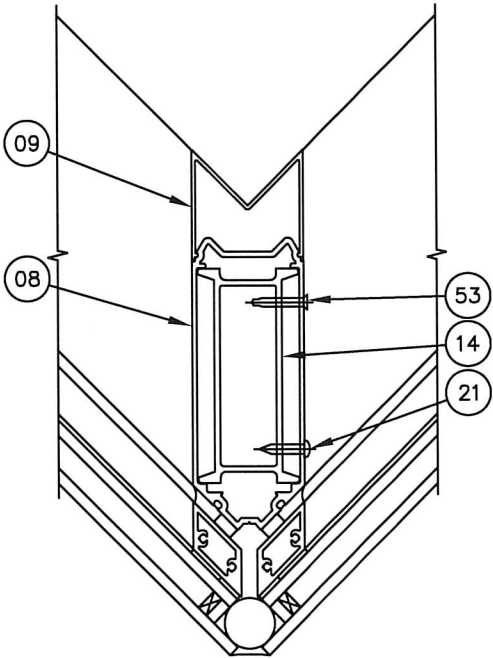
SPLICE DETAILS



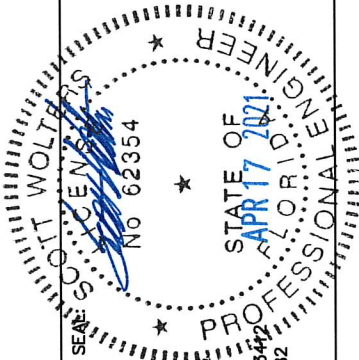
X-X
JAMB



X-X
MULLION



X-X
CORNER



SCOTT WALTERS
FL PE# 62354

WALTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

PRODUCT:
CLEARWALL
CURTAINWALL
SYSTEM

DWG: CLRWL-IR

SECTION: 3

SHEET: 8/16



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AN ARCONIC COMPANY

555 GUTHRIDGE COURT
NORCROSS, GA 30092

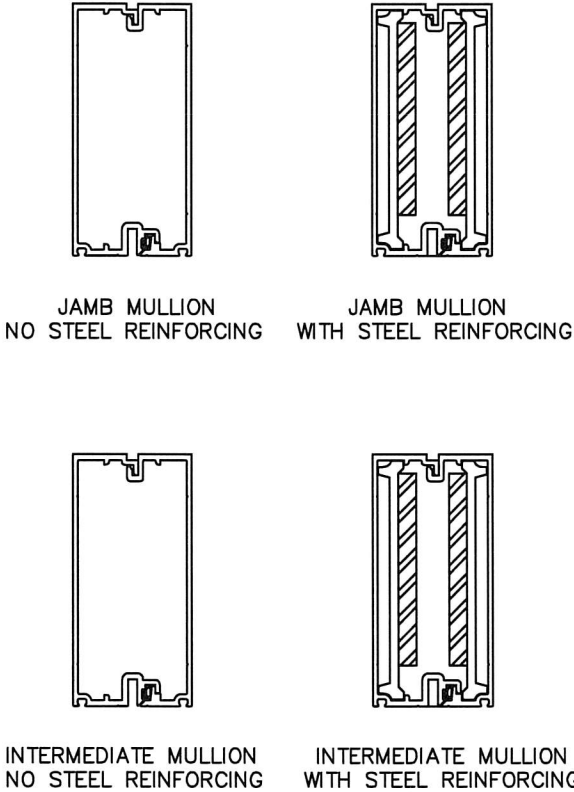
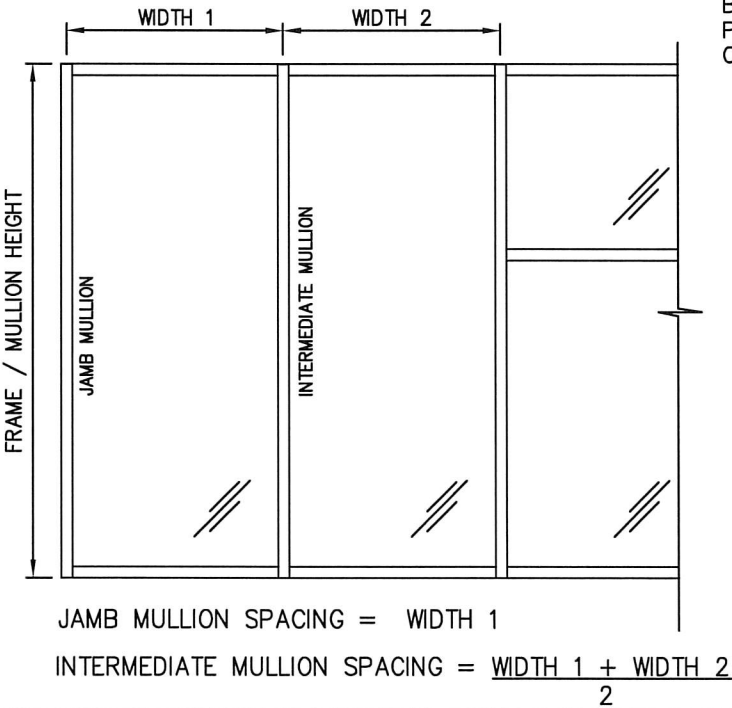
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REV.#	DATE	PRINTS ISSUED FOR	DRAFTING REVISION
1	10/12/20	1	
2	4/13/21	1	
3			
4			
5			
6			
7			
8			
9			
10			

MULLION LIMITATIONS

SINGLE SPAN JAMB CHART			
MULLION HEIGHT (in)	JAMB MULLION SPACING (in)	ALLOWABLE DESIGN PRESSURE (psf)	
		NO REINF. (+/-)	W/REINF. (+/-)
84	55	70	70
	64	60	60
	70	55	55
	76	50	50
	90	50	50
	100	-	50
96	48	70	70
	54	61	61
	60	56	56
	67	50	50
	79	50	50
	100	-	50
120	38 1/2	70	70
	42	64	64
	48	56	56
	54	50	50
	63 1/2	45	50
	100	-	50
132	28 1/2	70	70
	35	57	57
	44 1/2	50	50
	48	44	50
	54	39	50
	57 1/2	37	50
144	100	-	50
	30	52	52
	34	50	50
	42 1/2	50	50
	48	44	50
	60	35	50
156	53	42	50
	100	-	50
	48	50	50
	60	42	50
	70	35	50
	80	-	50
168	94	-	43
	39	50	50
	42	47	50
	48	41	50
	60	33	50
	66	30	50
168	88	-	50

- SINGLE SPAN NOTES:
- STEEL REINFORCING LENGTH = MULLION HEIGHT-36".
 - JAMB DEFLECTION AND JAMB PERIMETER SEALANT MUST MEET MANUFACTURER'S RECOMMENDATIONS AND ASTM C1472.
 - COMPARATIVE ANALYSIS MAY BE USE FOR OTHER SIZES AND PRESSURES PER THE REQUIREMENTS OF FBC SECTION 2411.3.2.4.



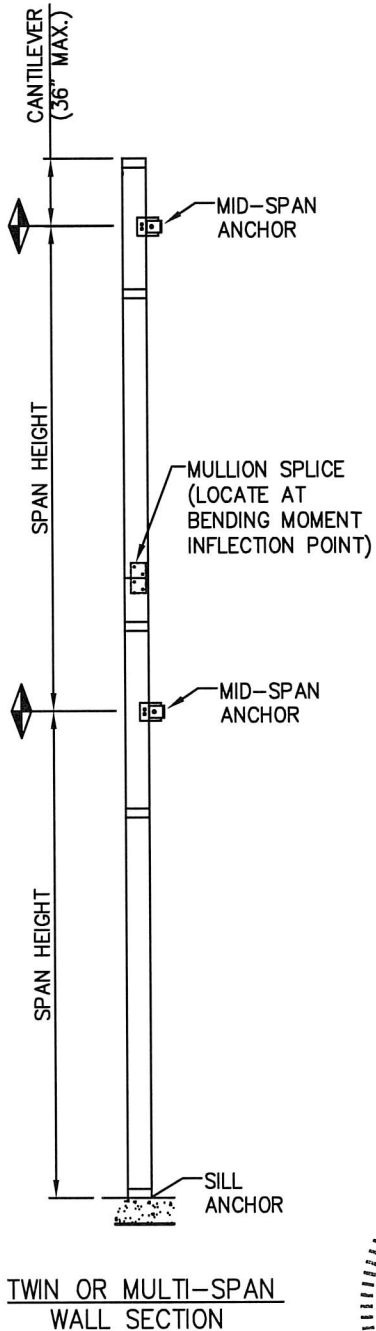
SINGLE SPAN MULLION CHART			
MULLION HEIGHT (in)	INTER. MULLION SPACING (in)	ALLOWABLE DESIGN PRESSURE (psf)	
		NO REINF. (+/-)	W/REINF. (+/-)
84	51	70	70
	60	59.5	59.5
	66	54	54
	70	50	50
	87	50	50
	96	-	50
96	45	70	70
	52	60	60
	60	52.5	52.5
	76	50	50
	96	-	50
120	36	70	70
	42	60	60
	48	52.5	52.5
	54	50	50
	61	45	50
	84	-	50
132	27	70	70
	32	59	59
	42	50	50
	48	43	50
	55	37	50
	76	-	50
144	24	60	60
	30	50	50
	36	44	50
	42	38	50
	50	31	50
	70	-	50
156	30	42	50
	36	35	50
	46	30	50
	55	-	50
	60	-	46
168	30	33	50
	33	30	50
	44	-	50
	60	-	36

- SINGLE SPAN NOTES:
- STEEL REINFORCING LENGTH = MULLION HEIGHT-36".
 - COMPARATIVE ANALYSIS MAY BE USE FOR OTHER SIZES AND PRESSURES PER THE REQUIREMENTS OF FBC SECTION 2411.3.2.4.

MULTI-SPAN JAMB/MULLION CHART			
JAMB/ MULLION HEIGHT (in)	JAMB/ MULLION SPACING (in)	ALLOWABLE DESIGN PRESSURE (psf)	
		NO REINF. (+/-)	W/REINF. (+/-)
84	74	50	50
	87	-	50
	100	-	50
96	65	50	50
	84	-	50
	91	-	50
120	52	50	50
	60	-	50
	72	-	50
132	36	50	59
	42	47	50
	47	42	50
144	54	-	50
	66	-	50
	30	50	50
156	36	42	50
	43	35	50
	48	-	50
168	60	-	50
	24	49	50
	30	39	50
168	36	33	50
	40	30	50
	48	-	50
168	56	-	50
	24	39	50
	30	32	50
168	36	26	50
	52	-	50

- MULTI-SPAN NOTES:
- PRESSURES LISTED ABOVE APPLY TO MULLIONS WITH EQUAL SPAN HEIGHTS.
 - SEE NOTES BELOW FOR UNEQUAL SPANS.
 - STEEL REINFORCING REQUIREMENTS:
 - LENGTH FOR BOTTOM SPAN REINFORCING = M.L.-36", STARTING 30" FROM SILL (EXTENDS THRU 1ST MID-SPAN ANCHOR)
 - LENGTH FOR REINFORCING IN UPPER SPANS = SPAN HEIGHT-84" (MIN), LOCATED 35" ABOVE LOWER STEEL OR CENTERED IN SPAN.
 - ANY LOCATION WHERE THE MULLION BENDING MOMENT EXCEEDS 30,230 in-lb.
 - COMPARATIVE ANALYSIS MAY BE USE FOR OTHER SIZES AND PRESSURES PER THE REQUIREMENTS OF FBC SECTION 2411.3.2.4.

- UN-EQUAL SPANS:
- MULLIONS WITH UN-EQUAL SPAN HEIGHTS MUST MEET ALL OF THE FOLLOWING REQUIREMENTS:
- MAX. SPAN HEIGHT = 168 in.
 - MAX. DESIGN PRESSURE = ±50 psf
 - MAX. BENDING MOMENT FOR MULLION WITH NO STEEL REINFORCING = 30,230 in-lb.
 - MAX. BENDING MOMENT FOR REINFORCED MULLION = 47,426 in-lb.
 - MAX. MID-SPAN ANCHOR REACTION = 3754 lb.



SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33442
PH/FAX: (561) 225-1982

STATE OF FLORIDA
APR 17 2021
PROFESSIONAL ENGINEER

PRODUCT:
CLEARWALL CURTAINWALL SYSTEM

DWG: CLRWL-IR

SECTION: 4

SHEET: 9/16

KAWNEER
AN ARCONIC COMPANY

555 GUTHRIDGE COURT
NORCROSS, GA 30092

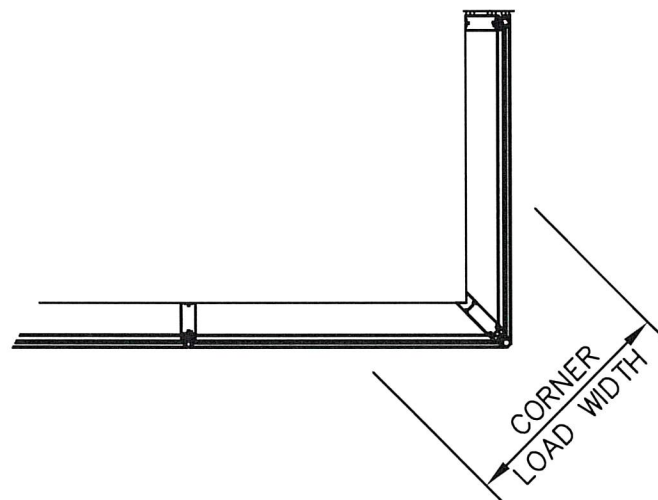
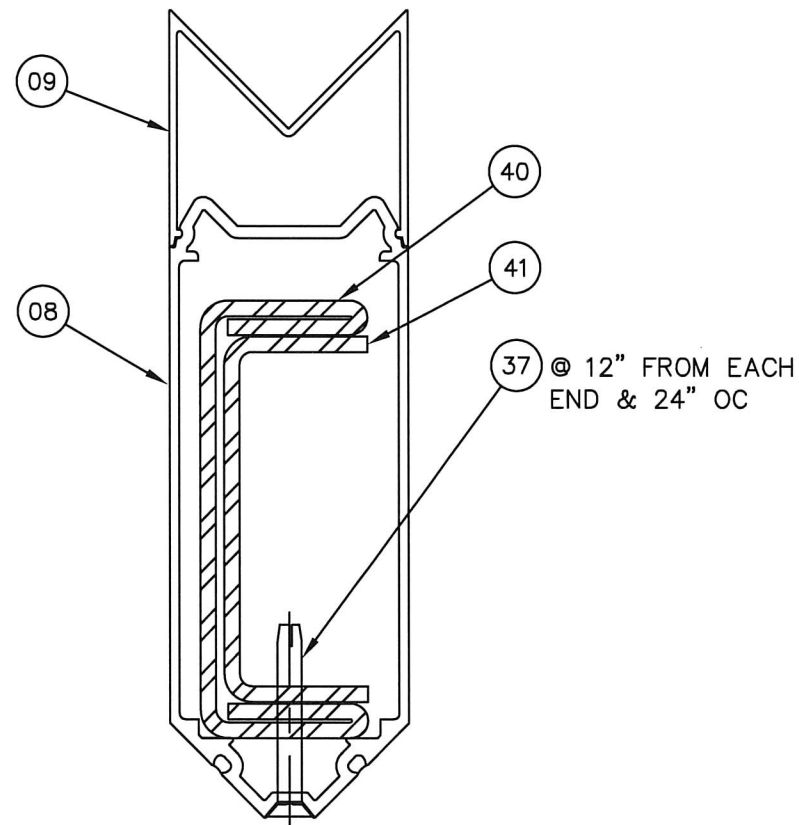
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1ST SUBMITTAL
4/13/21
10/12/20

PRINTS ISSUED FOR REV.#

DATE

CORNER DETAILS



CORNER MULLION CHART			
MULLION HEIGHT (in)	CORNER MULLION LOAD WIDTH (in)	ALLOWABLE DESIGN PRESSURE (psf)	
		SINGLE SPAN (+/-)	MULTI- SPAN (+/-)
96	42	50	50
	48	50	50
	51	50	50
120	42	50	50
	48	50	50
	51	50	50
132	42	50	50
	48	50	50
	51	47	50
144	36	50	50
	42	48	50
	46	44	50
156	30	50	50
	36	48	50
	40	43	50
	43	40	46
168	24	50	50
	30	41	50
	36	34	50
	40 1/8	30	50

CORNER MULLION NOTES:

1. WIDTHS ARE BASED ON PROJECTED AREA.
(CENTER OF DLO TO CENTER OF DLO)
2. PRESSURES FOR MULTI-SPAN MULLIONS LISTED ABOVE APPLY TO MULLIONS WITH EQUAL SPAN HEIGHTS. SEE NOTES BELOW FOR UNEQUAL SPANS.
3. STEEL REINFORCING LENGTH FOR SINGLE SPAN MULLIONS = MULLION LENGTH-36".
4. MULTI-SPAN STEEL REINFORCING REQUIREMENTS:
 - a. LENGTH FOR BOTTOM SPAN REINFORCING = M.L.-36", STARTING 30" FROM SILL
(EXTENDS THRU 1ST MID-SPAN ANCHOR)
 - b. LENGTH FOR REINFORCING IN UPPER SPANS = SPAN HEIGHT-84" (MIN), 35" ABOVE LOWER STEEL OR CENTERED IN SPAN.
 - c. ANY LOCATION WHERE THE MULLION BENDING MOMENT EXCEEDS 22,317 in.-lb.
4. COMPARATIVE ANALYSIS MAY BE USE FOR OTHER SIZES AND PRESSURES PER THE REQUIREMENTS OF FBC SECTION 2411.3.2.4.

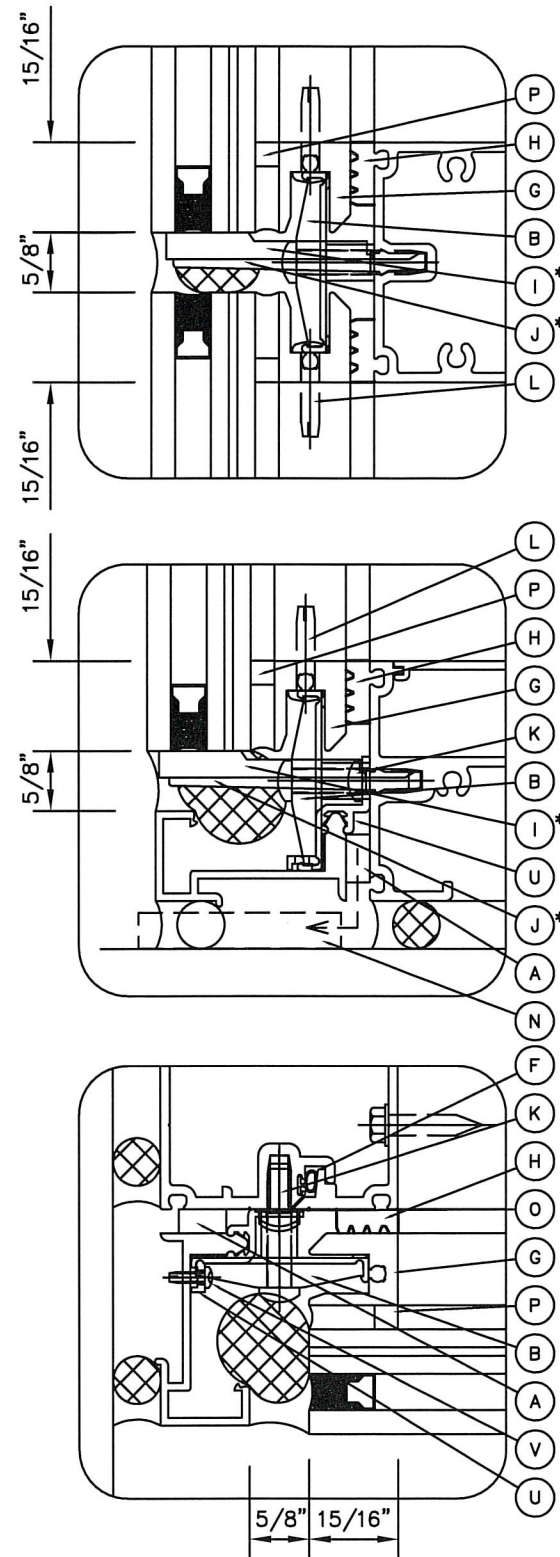
UN-EQUAL SPANS:

CORNER MULLIONS WITH UN-EQUAL SPAN HEIGHTS
MUST MEET ALL OF THE FOLLOWING REQUIREMENTS:

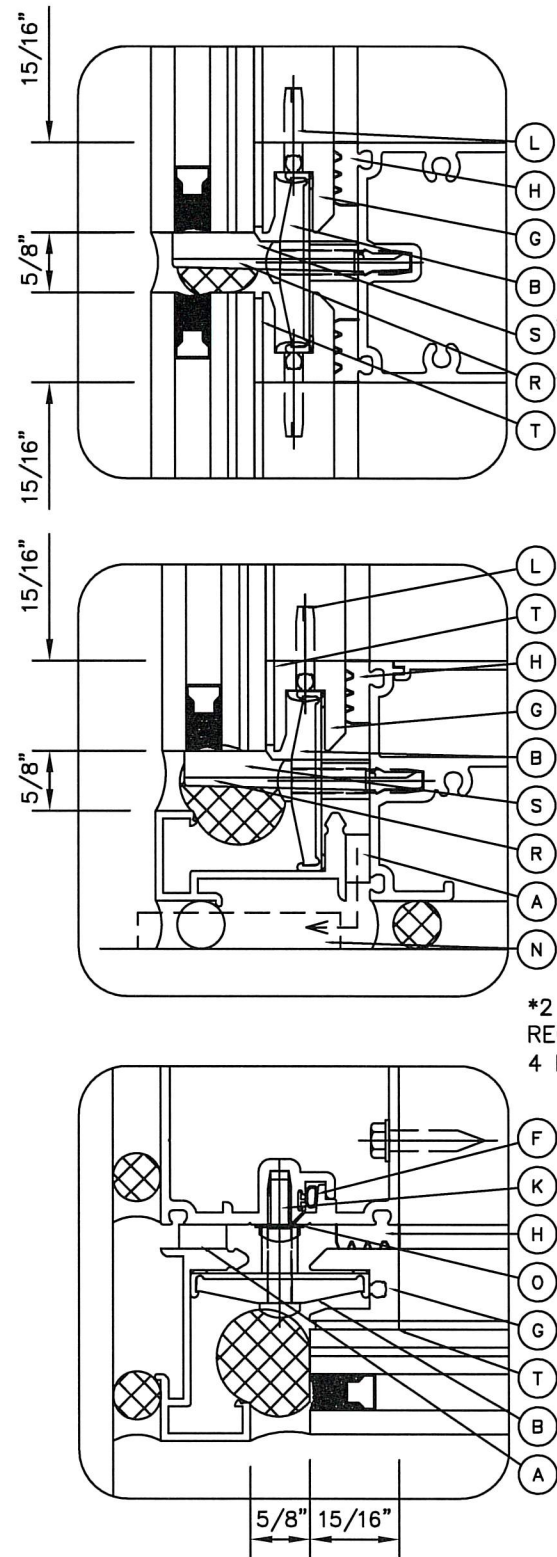
1. MAX. SPAN HEIGHT = 168 in.
2. MAX. DESIGN PRESSURE = ± 50 psf
3. MAX. BENDING MOMENT FOR MULLION WITH NO STEEL REINFORCING = 22,317 in-lb.
4. MAX. BENDING MOMENT FOR REINFORCED MULLION = 36,500 in-lb.
5. MAX. MID-SPAN ANCHOR REACTION = 2751 lb.

 SEAL OF SCOTT WOLTERS LICENSED PROFESSIONAL ENGINEER No. 62354 STATE OF FLORIDA APR 17 2021	SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING- (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982		PRODUCT: CLEARWALL CURTAINWALL SYSTEM	
	DWG: CLRWL-IR		SECTION: 4	
	SHEET: 10/16		DATE 10/12/20	
	PRINTS ISSUED FOR REV #		DATE	
	1ST SUBMITTAL 4/13/21		DRAFTING REVISION ---	

SSI GLAZING DETAILS



SSIT GLAZING DETAILS



*2 SETTING BLOCKS AND CHAIRS
REQ'D FOR GLASS ≤ 32 ft².
4 REQ'D FOR GLASS > 32ft².

- A 127159 SSG TAPE
(SHORE "A" 30 DUROMETER POLYURETHANE FOAM)
B 172213 TOGGLE ASSEMBLY (SEE LOCATIONS ON SHEET 13)
F 027493 AIR SEAL (ARLOC T-BULB WEATHER STRIP)
G 172021 INTERFACE
H 127167 INTERIOR FIXED GASKET (SHORE "00" 70±10
DUROMETER EPDM SPONGE)
I 127166 SETTING BLOCK (SHORE "A" 85±5 DUROMETER
SILICONE). (2) PER LITE MIN.
J 172210 SSI GLASS CHAIR
K 128958 1/4" x 1/2" PHTF TYPE "B" W/ #12 SQUARE
RECESS HEAD 300 STAINLESS STEEL 36" O.C.
L 977104 10-24 x 7/8" TYPE 1 PHTC CROSS RECESSED
TYPE "D" 300 STAINLESS STEEL

- N 3/8" DIA.WEEP TUBE BY OTHERS
O 028416 1/4" STAR WASHER
P 127095 1/4"x1/4" GLAZING TAPE
R 172216 SSIT GLASS CHAIR
S 127163 SETTING BLOCK (SHORE "A" 85±5 DUROMETER
SILICONE). (2) PER LITE MIN.
T 3M VHB 7/8" TAPE (B23F BLACK OR G23F GRAY)
BY OTHERS
U 172214 PERIMETER TRIM CLIP - @ EACH END OF PERIM
TRIM & ☉ OF HORIZONTAL MULLION
V 128920 #6x3/8" TYPE 1 PHTF SCREW TYPE "B" CROSS
RECESS HEAD (300 SS). (1) NEAR ☉ OF PERIMETER
TRIM

GLASS TYPES

GLASS TYPE 1 - 1" INSULATED LAMINATED
LARGE AND SMALL MISSILE IMPACT RESISTANT

MAKE-UP: 1/4" TEMPERED
3/8" AIR SPACE WITH ALUM.
SPACER (BLACK)
3/16" HEAT STRENGTHENED
0.090" SENTRYGLAS INTERLAYER
3/16" HEAT STRENGTHENED

GLASS TYPE 2 - 1" INSULATED LAMINATED
SMALL MISSILE IMPACT RESISTANT ONLY

MAKE-UP: 1/4" TEMPERED
3/8" AIR SPACE WITH ALUM.
SPACER (BLACK)
3/16" HEAT STRENGTHENED
0.060" PVB INTERLAYER
3/16" HEAT STRENGTHENED

GLASS TYPE 1 (LMI/SMI) - SSI GLAZING OPTION

TESTED DLO'S = 49 1/2"x93 1/2" (50 psf), 33 1/2"x93" (70 psf)

MAX. SILICONE STRESS=20psi

ALLOWABLE DESIGN PRESSURE (psf)												
HEIGHT (in)	WIDTH (in)											
	30	33 1/2	36	42	48	49 1/2	54	60	66	75	78	84
54	70	70	70	70	70	70	70	50	50	50	50	49
60	70	70	70	70	66	66	50	50	50	50		
64	70	70	70	68	64	50	50	50	50			
74	70	70	70	64	50	50	50	50				
84	70	70	64	50	50	50	49					
93	70	70	50	50	50	50						
93 1/2	70	50	50	50	50	50						
96	70	50	50	50	50							
108	50	50	50	50								
126	50	50	50									
138	50	50										
144	50											

GLASS TYPE 1 (LMI/SMI) - SSIT GLAZING OPTION

TESTED DLO'S = 49 1/2"x93 1/2" (50 psf), 33 1/2"x93" (70 psf)

MAX. 3M TAPE STRESS=12psi

ALLOWABLE DESIGN PRESSURE (psf)												
HEIGHT (in)	WIDTH (in)											
	30	33 1/2	36	42	48	49 1/2	54	60	66	75	78	84
54	70	70	70	70	63	61	56	50	50	50	50	49
60	70	70	70	70	63	61	50	50	50	50		
64	70	70	70	68	63	50	50	50	47			
74	70	70	70	64	50	50	50	50				
84	70	70	64	50	50	50	49					
93	70	70	50	50	50	50						
93 1/2	70	50	50	50	50	50						
96	70	50	50	50	50							
108	50	50	50	50								
126	50	50	50									
138	50	50										
144	50											

GLASS TYPE 2 (SMI ONLY) - SSI or SSIT GLAZING OPTIONS

TESTED DLO'S = 49 1/2"x93 1/2" (50 psf)

ALLOWABLE DESIGN PRESSURE (psf)												
HEIGHT (in)	WIDTH (in)											
	30	33 1/2	36	42	48	49 1/2	54	60	66	75	78	84
54	50	50	50	50	50	50	50	50	50	50	50	49
60	50	50	50	50	50	50	50	50	50	50		
64	50	50	50	50	50	50	50	50	47			
74	50	50	50	50	50	50	50	50				
84	50	50	50	50	50	50	49					
93 1/2	50	50	50	50	50	50						
96	50	50	50	50	50							
108	50	50	50	50								
126	50	50	50									
138	50	50										
144	50											

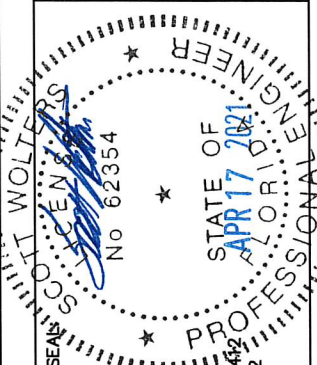
GLASS CHART NOTES:

- DIMENSIONS LISTED ARE DLO DIMENSIONS.
- PRESSURES SHOWN ARE ROUNDED TO WHOLE NUMBERS.
- COMPARATIVE ANALYSIS MAY BE USED FOR OTHER SIZES AND PRESSURES PER THE REQUIREMENTS OF FBC SECTION 2411.3.2.4.

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SCOTT WALTERS
FL PE# 62354

WALTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

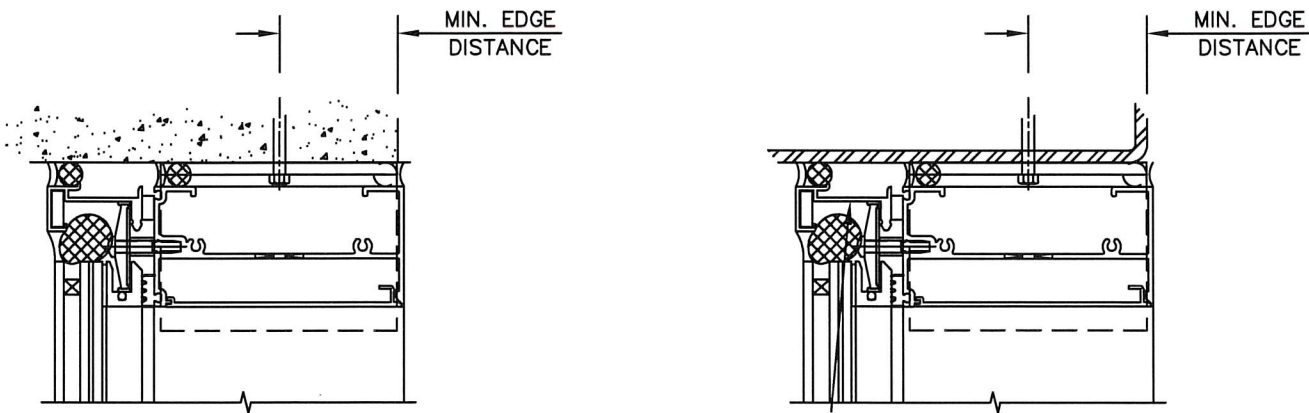
PRODUCT:
**CLEARWALL
CURTAINWALL
SYSTEM**

DWG: **CLRWL-IR**

SECTION: **5**

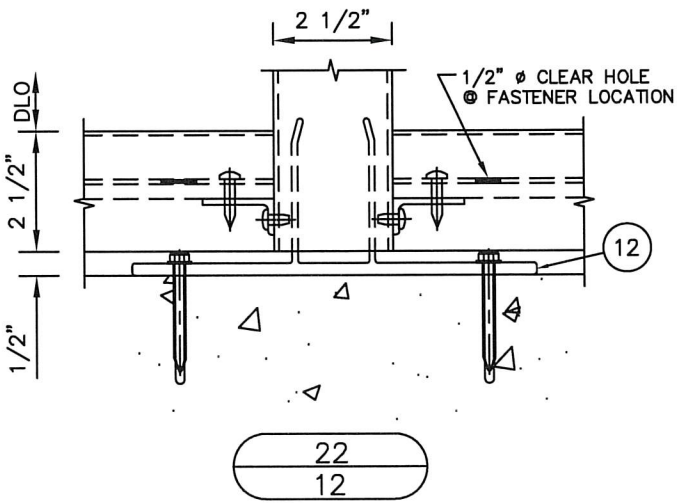
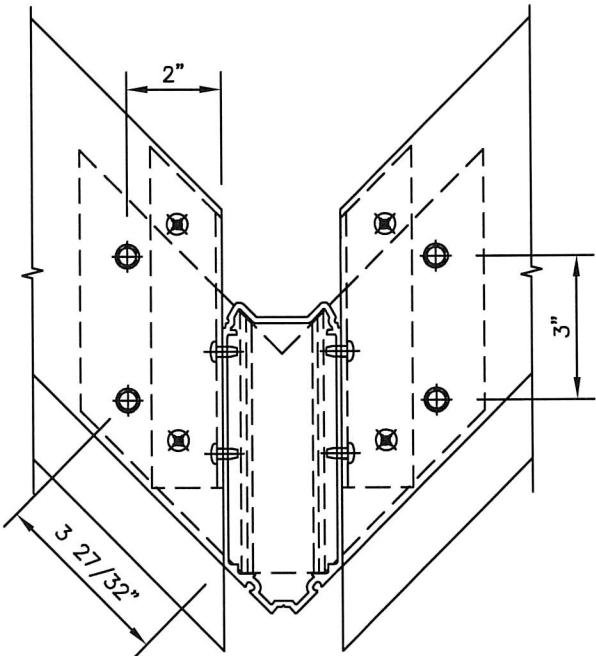
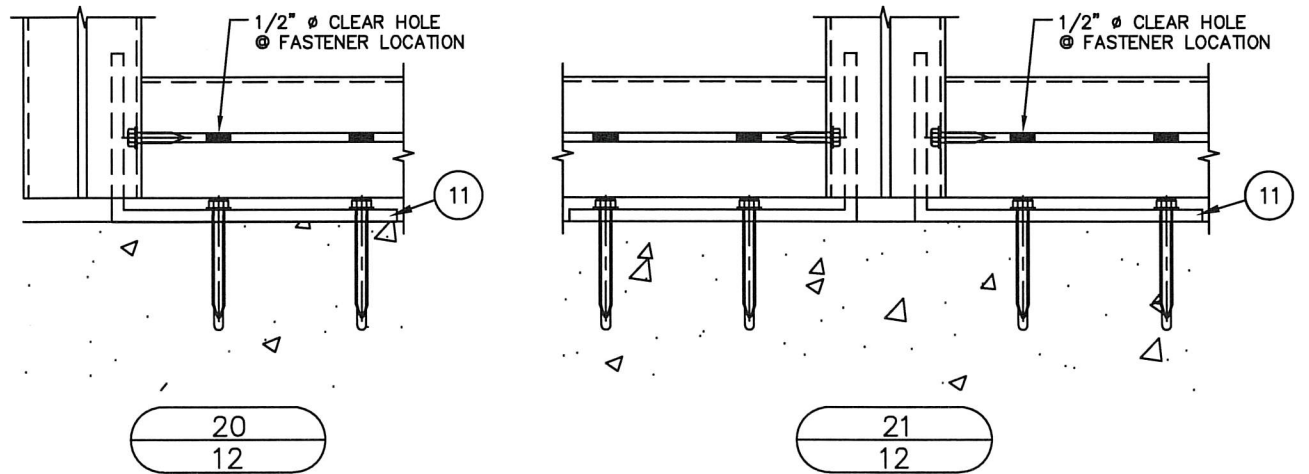
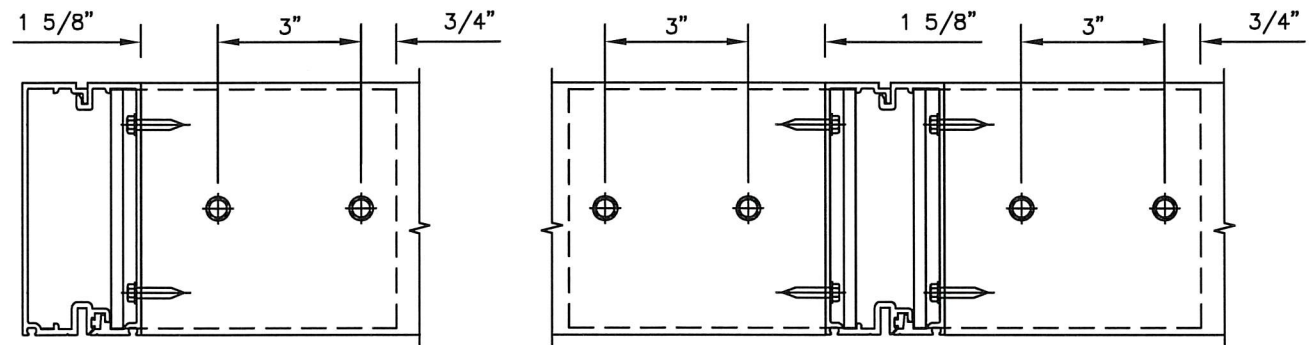
SHEET: **11/16**

HEAD/SILL ANCHOR DETAILS

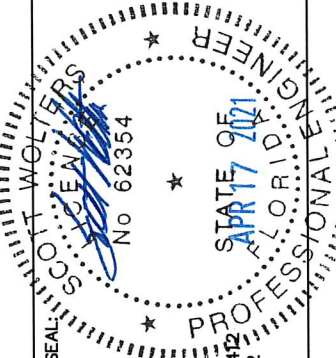


ANCHOR SCHEDULE			
BASE MATERIAL	FASTENER TYPE	EMBEDMENT (MIN)	EDGE DISTANCE (MIN)
CONCRETE (3000 psi MIN)	1/4" DIA. ELCO ULTRACON	1 3/4"	2 1/2"
	1/4" DIA. ELCO CRETE-FLEX SS4		
	1/4" DIA. ELCO AGGRE-GATOR		
	1/4" DIA. HILTI KWIK-CON II		
STEEL (1/8", 36 ksi MIN.)	1/4" DIA. ITW TEKS SCREW	FULL (SEE NOTE)	3/4"
	1/4" DIA. ELCO BI-FLEX		
	1/4" DIA. ELCO ULTRACON		
	1/4" DIA. F-TYPE THREAD FORMING SCREW (SAE Gr. 5 MIN)		

ANCHOR CHART NOTES:
1. FOR THREAD FORMING SCREWS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE WALL THICKNESS OF THE STEEL, WITH THREE ADDITIONAL THREADS BEYOND, FOR FULL EMBEDMENT.



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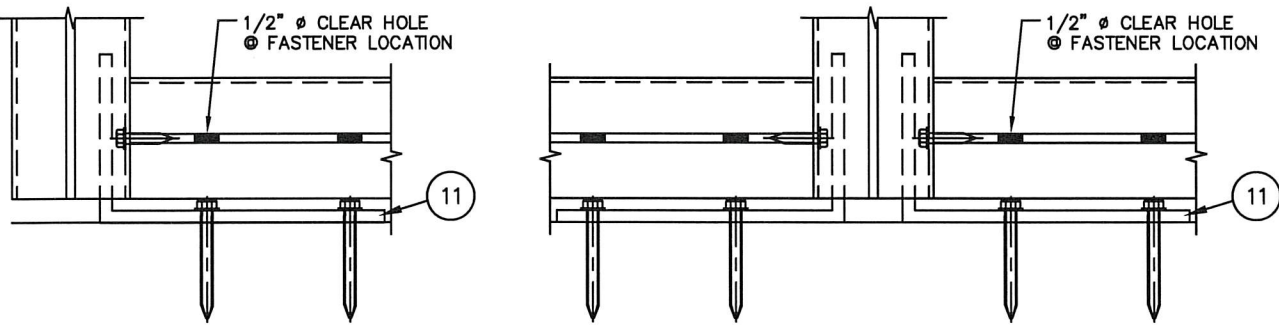
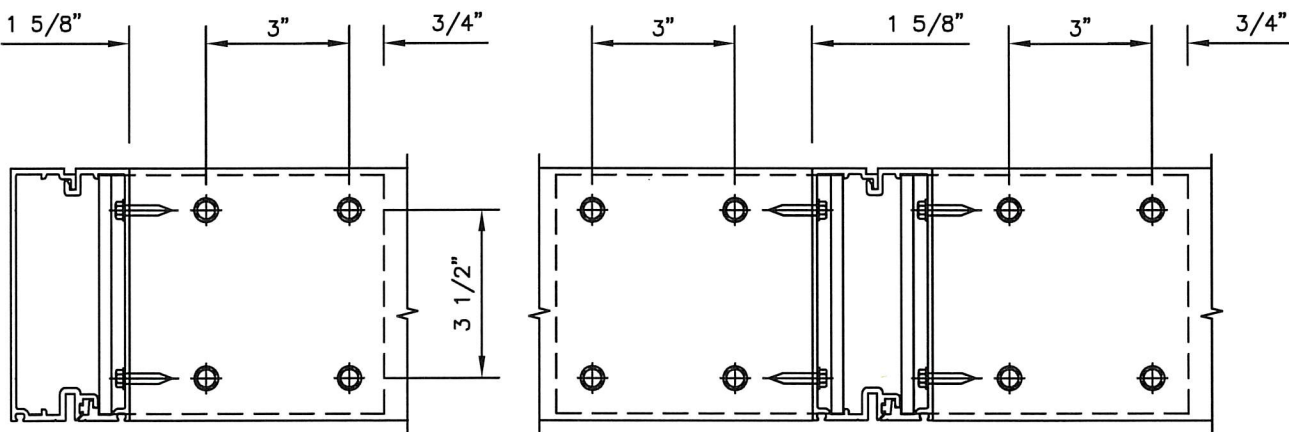
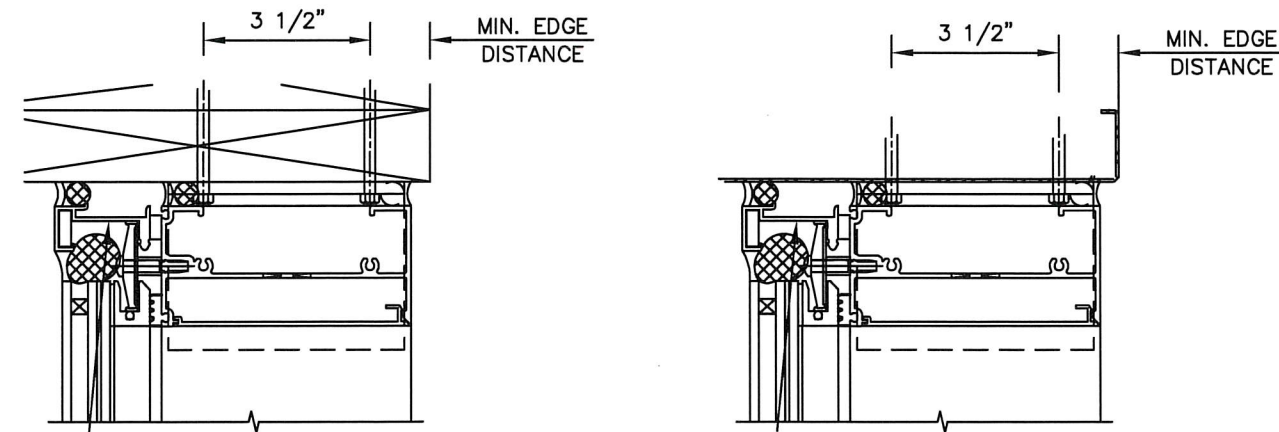
PRODUCT:
**CLEARWALL
CURTAINWALL
SYSTEM**

DWG: **CLRWL-IR**

SECTION: **6**

SHEET: **12/16**

HEAD/SILL ANCHOR DETAILS

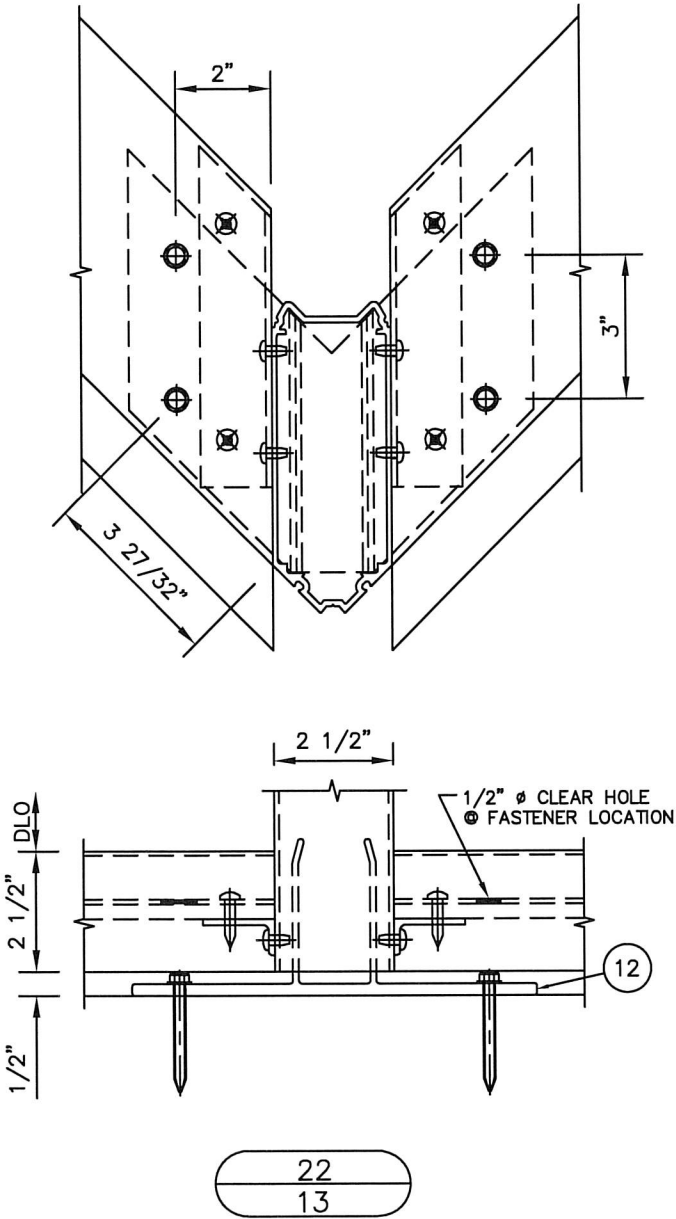


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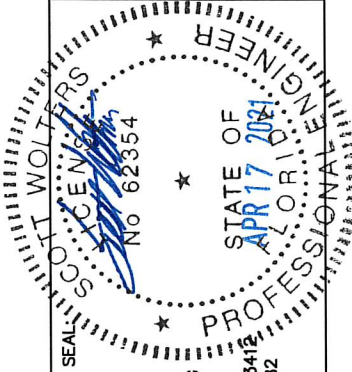
ANCHOR SCHEDULE			
BASE MATERIAL	FASTENER TYPE	EMBEDMENT (MIN)	EDGE DISTANCE (MIN)
WOOD (S.G. = 0.5 MIN)	1/4" DIA. SHEET METAL SCREW (300 SERIES SS MIN)	2"	1"
METAL STUD (16 Ga, 45 ksi MIN.)	1/4" DIA. ITW TEKS SCREW 1/4" DIA. ELCO BI-FLEX 1/4" DIA. ELCO ULTRACON 1/4" DIA. F-TYPE THREAD FORMING SCREW (SAE Gr. 5 MIN)	FULL (SEE NOTE)	3/4"

ANCHOR CHART NOTES:
1. AT METAL STUDS, FASTENER THREADS MUST FULLY PENETRATE THE STUD WALL, WITH THREE ADDITIONAL THREADS BEYOND, FOR FULL EMBEDMENT.



22
13

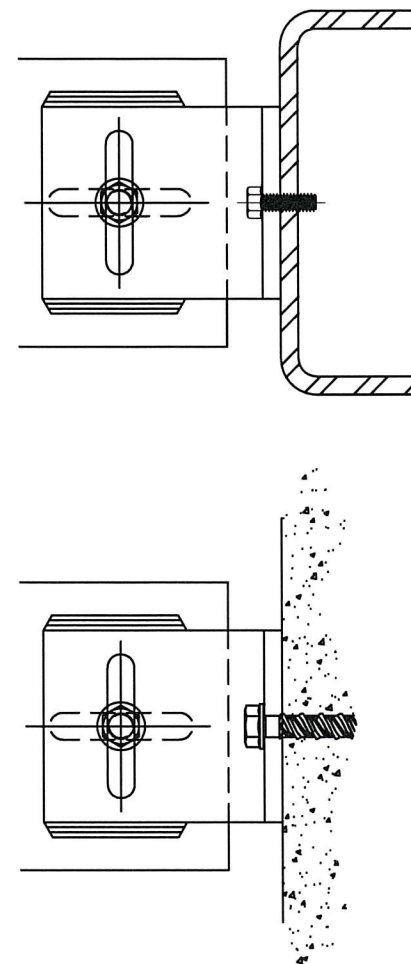
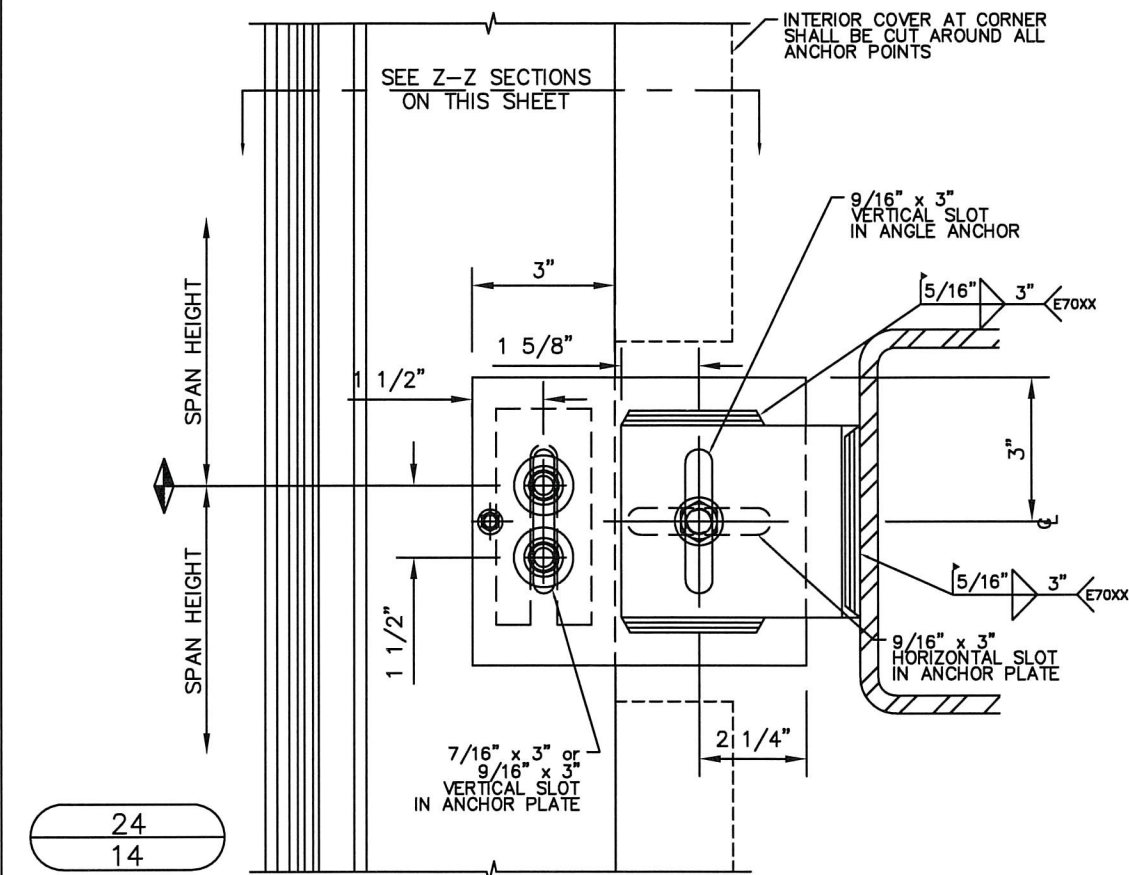
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PRODUCT:
CLEARWALL
CURTAINWALL
SYSTEM
DWG: CLRWL-IR
SECTION: 6
SHEET: 13/16

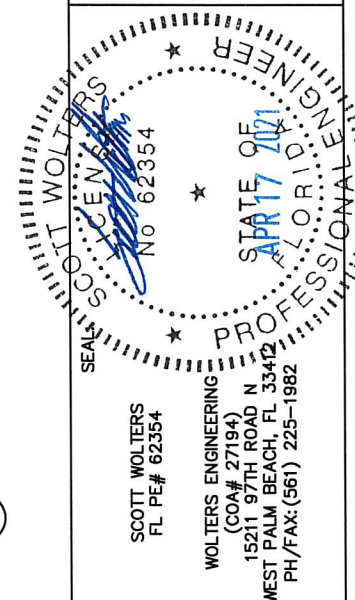
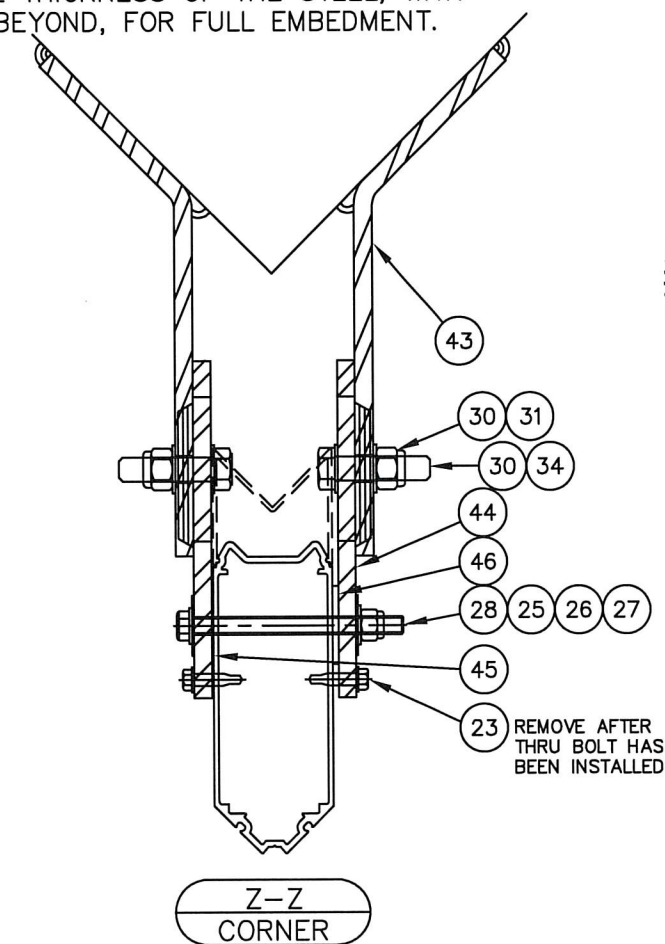
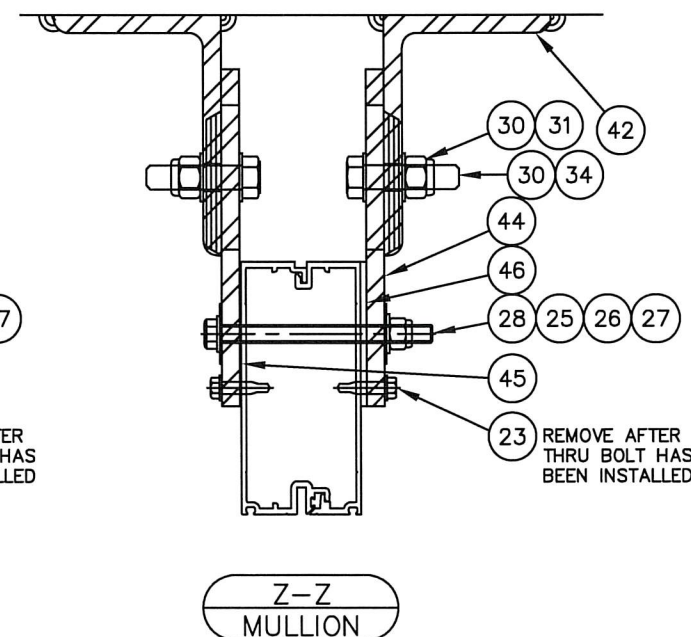
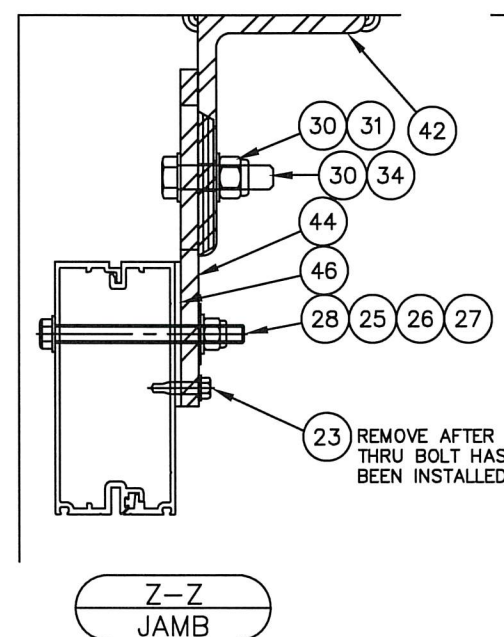
MID-SPAN ANCHOR DETAILS



ANCHOR SCHEDULE			
MULLION BOLTS			
	FASTENER TYPE	MAX. ANCHOR REACTION	
	3/8" DIA. HH BOLT, LOCK-NUT & WASHERS ((2) PER MULLION, 300 SERIES SS MIN)	2180 lb.	
	1/2" DIA. HH BOLT, LOCK-NUT & WASHERS ((2) PER MULLION, 300 SERIES SS MIN)	3754 lb.	
STEEL ANCHOR PLATE TO STEEL ANGLE BOLTS			
	FASTENER TYPE	MAX. ANCHOR REACTION	
	1/2" DIA. HH BOLT, LOCK-NUT & WASHERS ((1) PER ANGLE, 300 SERIES SS MIN)	3754 lb.	
STEEL ANGLE TO BASE MATERIAL			
BASE MATERIAL	FASTENER TYPE	EMBEDMENT (MIN)	EDGE DISTANCE (MIN)
CONCRETE (3000 psi MIN)	1/2" DIA. POWERS WEDGE BOLT ((1) PER ANGLE)	3 1/2"	4"
	1/2" DIA. HILT KWK HUS-EZ ((1) PER ANGLE)	3 1/2"	4"
STEEL (1/4" Thick, 36 ksi MIN.)	1/2" DIA. ELCO TAP-FLEX ((1) PER ANGLE) 1/2" DIA. F-TYPE THREAD FORMING SCREW ((1) PER ANGLE, SAE Gr. 5 MIN) 1/2" DIA. THRU-BOLT, LOCK-NUT, & WASHERS ((1) PER ANGLE, 300 SERIES SS MIN)	FULL (SEE NOTE)	1 1/4"

ANCHOR CHART NOTES:

1. FOR THREAD FORMING SCREWS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE WALL THICKNESS OF THE STEEL, WITH THREE ADDITIONAL THREADS BEYOND, FOR FULL EMBEDMENT.



PRODUCT:
**CLEARWALL
CURTAINWALL
SYSTEM**

DWG:	CLRWL-IR
SECTION:	6
SHEET:	14/16



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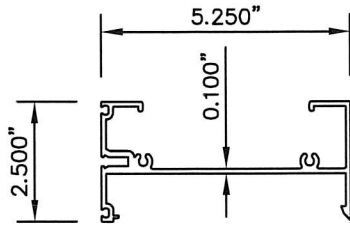
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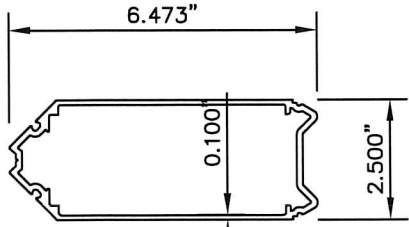
PRINTS ISSUED FOR	REV.#	DATE
DRAFTING REVISION	—	4/13/21
1ST SUBMITTAL	—	10/12/20

BILL OF MATERIALS

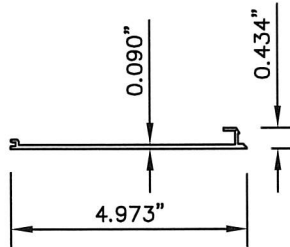
NO.	PART NO.	DESCRIPTION	DIMENSIONS	MATERIAL
EXTRUSIONS				
01	172010	5-1/4" HEAD/SILL HORIZ.	2.500 x 5.250 x 0.100	6063 T6 ALUMINUM
02	162020	5-1/4" OPEN BACK FILLER	0.434 x 4.973 x 0.090	6063 T6 ALUMINUM
03	172017	SSI PERIMETER TRIM	1.000 x 2.000 x 0.080	6063 T6 ALUMINUM
04	172203	PERIMETER TRIM SLEEVE	0.750 x 0.250 x 2.500	6063 T6 ALUMINUM
05	172009	5-1/4" HORIZONTAL	2.500 x 5.250 x 0.100	6063 T6 ALUMINUM
06	172003	5-1/4" MALE MULLION	1.831 x 5.250 x 0.100	6063 T6 ALUMINUM
07	172004	5-1/4" FEMALE MULLION	1.365 x 5.250 x 0.100	6063 T6 ALUMINUM
08	162254	SSG CORNER MULLION	2.500 x 6.473 x 0.100	6063 T6 ALUMINUM
09	162255	SSG CORNER COVER	2.500 x 2.458 x 0.080	6063 T6 ALUMINUM
10	172025	CORNER INTERFACE	2.217 x 0.750 x 0.100	6063 T6 ALUMINUM
11	169212	HEAD/SILL ANGLE ANCHOR	3.500 x 6.000 x 0.250 x 4.969	6063 T6 ALUMINUM
12	162549	"T" ANCHOR	3.250 x 8.500 x 0.250 x 8.811	6063 T6 ALUMINUM
13	172202	5-1/4" MULLION SPLICE SLEEVE	5.227 x 4.969 x 0.180 x 12.000	6063 T6 ALUMINUM
14	172231	MULLION SLEEVE	2.260 x 4.750 x 0.125 x 12.000	6063 T6 ALUMINUM
15	172225	CORNER SHEAR BLOCK	1.460 x 1.660 x 0.125 x 7.071	6063 T6 ALUMINUM
16	172226	CORNER SHEAR BLOCK	1.500 x 0.750 x 0.125 x 7.776	6063 T6 ALUMINUM
17	172227	CORNER SHEAR BLOCK	1.500 x 0.750 x 0.125 x 7.776	6063 T6 ALUMINUM
18	128509	SPLINE SCREW	#12 x 1" AB HHTF	300 SERIES STAINLESS STEEL
19	128396	SHEAR BLOCK SCREW	#12 x 7/16" B PHTF	430 SERIES STAINLESS STEEL
20	128405	SHEAR BLOCK SCREW	#12 x 7/8" AB FHTF	300 SERIES STAINLESS STEEL
21	128267	SHEAR BLOCK SCREW / SPLICE SCREW	#12 x 1" AB PHTF	300 SERIES STAINLESS STEEL
22	128388	JAMB SPLICE SCREW	#12 x 3" AB FHTF	300 SERIES STAINLESS STEEL
23	128402	TEMPORARY ANCHOR ATTACHMENT SCREW	1/4" -14 x 1" HWHSFSD	300 SERIES STAINLESS STEEL
24	977176	ANCHOR BOLT	3/8"-16 x 4" HEX BOLT	300 SERIES STAINLESS STEEL
25	128596	FLAT WASHER	3/8" WASHER	300 SERIES STAINLESS STEEL
26	128392	ANCHOR NUT	3/8-16 HEX LOCKNUT	300 SERIES STAINLESS STEEL
27	216301	SLIP WASHER	3/8" FENDER WASHER	300 SERIES STAINLESS STEEL
28	128918	ANCHOR BOLT	3/8"-16 x 4-1/2" HEX BOLT	300 SERIES STAINLESS STEEL
29	PURCHASE	ANCHOR BOLT	1/2"-13 x 4" HEX BOLT	300 SERIES STAINLESS STEEL
30	128260	FLAT WASHER	1/2" WASHER	300 SERIES STAINLESS STEEL
31	128391	ANCHOR NUT	1/2-13 HEX LOCKNUT	300 SERIES STAINLESS STEEL
32	PURCHASE	SLIP WASHER	1/2" FENDER WASHER	300 SERIES STAINLESS STEEL
33	PURCHASE	ANCHOR BOLT	1/2"-13 x 4-1/2" HEX BOLT	300 SERIES STAINLESS STEEL
34	128393	ANCHOR BOLT	1/2-13 x 2" HEX BOLT	300 SERIES STAINLESS STEEL
35	028266	REINFORCING ATTACHMENT SCREW	#10 x 3/4" PHTFS	CARBON STEEL
36	028687	REINFORCING ATTACHMENT SCREW	1/4" x 1-1/2" PHTFS	CARBON STEEL
37	904208	REINFORCING ATTACHMENT SCREW	1/4-20 x 1-1/2" FHTC D @ 48" OC	CARBON STEEL
38	PURCHASE	ELCO ULTRAON CONCRETE SCREW	1/4" x 2-1/4"	CARBON STEEL STALGUARD COATED
39	PURCHASE	STEEL BAR REINFORCING	0.375 x 4.000 x SEE ELEVATION	GRADE 50 STEEL
40	162301	STEEL REINFORCING	1.750 x 4.560 x 0.164 x SEE ELEV	GRADE 50 STEEL
41	162302	STEEL REINFORCING	1.500 x 3.810 x 0.164 x SEE ELEV	GRADE 50 STEEL
42	PURCHASE	STEEL ANGLE ANCHOR	3.500 x 5.000 x 0.375 x 4.000 LONG	GRADE A36 STEEL
43	PURCHASE	BENT STEEL ANCHOR	4.000 x 8.500 x 0.375 x 4.000 LONG	GRADE A36 STEEL
44	PURCHASE	STEEL ANCHOR PLATE FOR 3/8" ANCHOR BOLT	7.000 x 6.000 x 0.375	GRADE A36 STEEL
45	027477	SEPARATOR	2.000 X 4.500 X 0.031	THERMAL-TORK TN-9004
46	PURCHASE	SHIM	0.125 THICK	PLASTIC
47	127159	SG TAPE	0.500 x 0.250	POLYURETHANE FOAM
48	127164	3M VHB SG TAPE B23F	0.875 x 0.090	CONFORMABLE ACRYLIC FOAM (CLOSED CELL)
49	162120	TEMPORARY CORNER GLAZING	1.915 x 5.083 x 0.100 x 4.000	6063 T6 ALUMINUM
50	028961	TEMPORARY CORNER GLAZING CLIP SCREW	1/4-20 x 4" PHMS TYPE 1	300 SERIES STAINLESS STEEL
51	027857	FIXED GASKET	0.310 x 0.360	SHORE "-A" 70±5 DUROMETER EPDM
52	PURCHASE	STEEL ANCHOR PLATE FOR 1/2" ANCHOR BOLT	7.000 x 6.000 x 0.375	GRADE A36 STEEL
53	128348	CROSS RECESSED COUNTER SUNK SCREW	#10-16 x 1-1/4" FHSD	300 SERIES STAINLESS STEEL



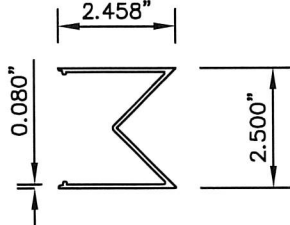
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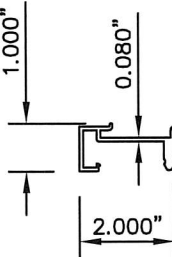
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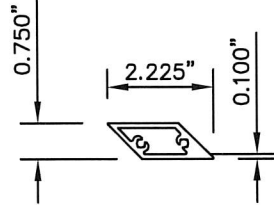
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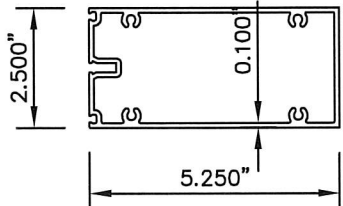
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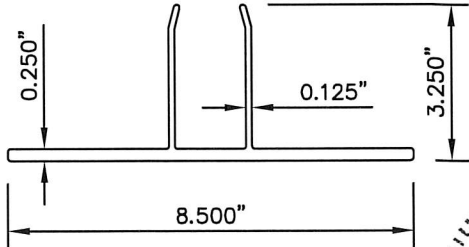
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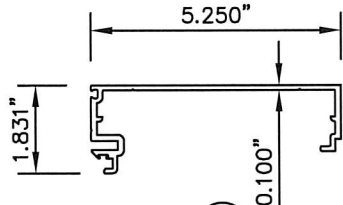
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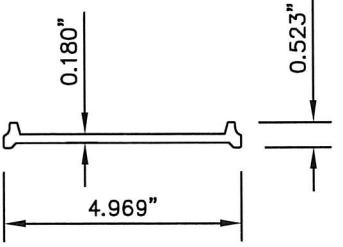
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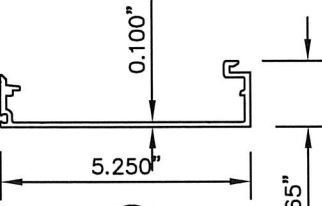
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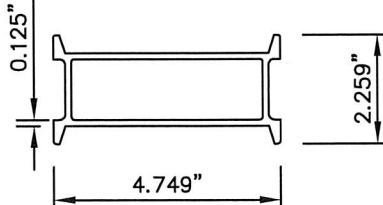
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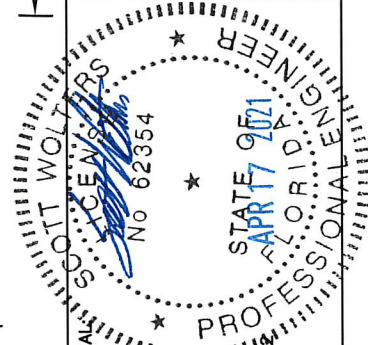


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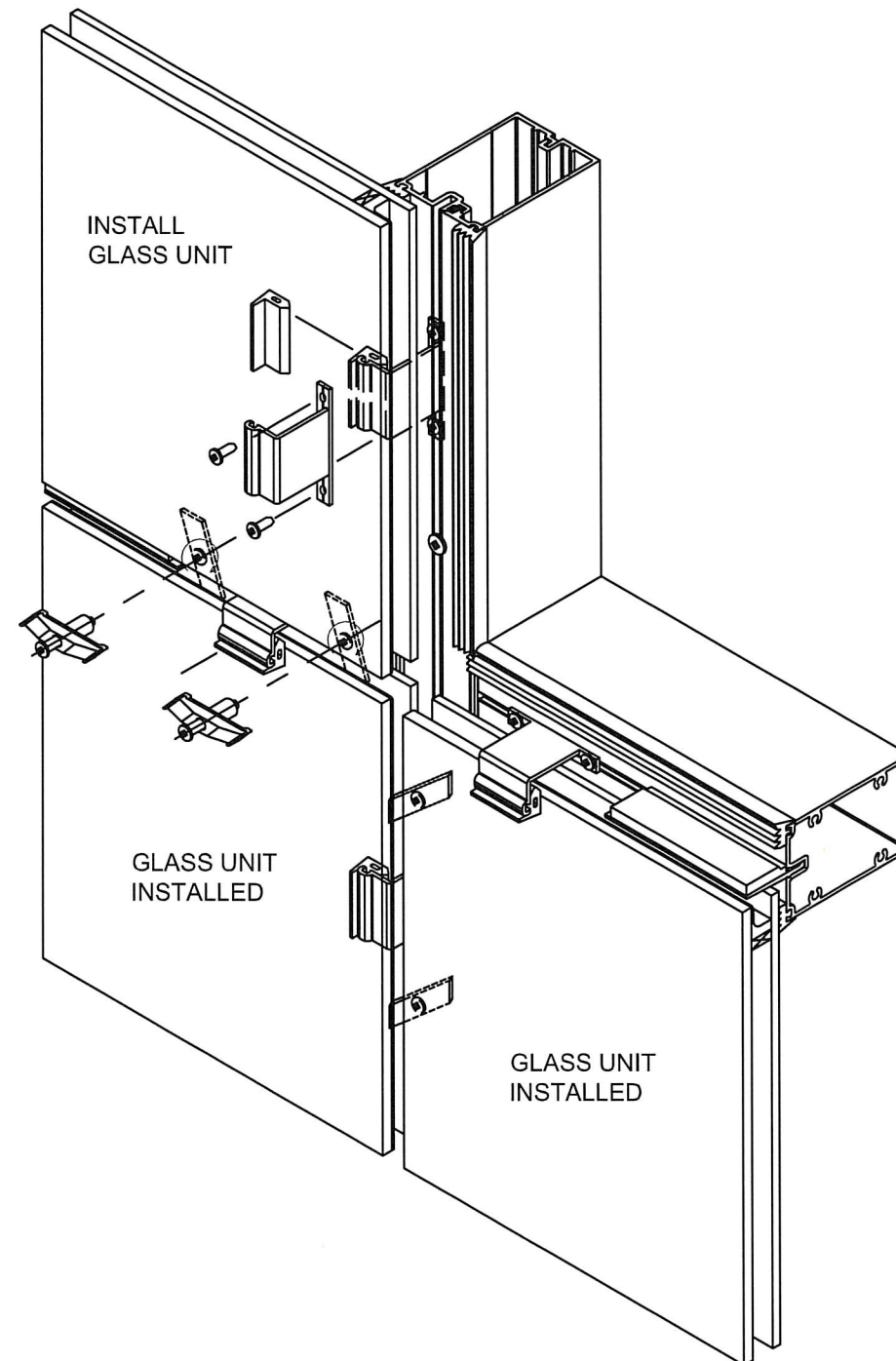
PRODUCT:
 CLEARWALL
 CURTAINWALL
 SYSTEM

DWG:
 CLRWL-IR

SECTION:
 7

SHEET:
 15/16

TOGGLE LOCATION ISOMETRIC



TOGGLE LOCATIONS ARE TO BE NO MORE THAN 3" FROM THE CORNER OF THE GLASS ASSEMBLY AND A MAXIMUM OF 6" ON CENTER.

MAXIMUM GLAZING TEMPORARY SPACING IS 24" ON CENTER.

	SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX: (561) 225-1982
PRODUCT: CLEARWALL CURTAINWALL SYSTEM	
DWG: CLRWL-IR	
SECTION: 7	
SHEET: 16 / 16	