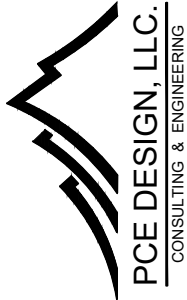


PRODUCT DEVELOPMENT

OUTSWING ALUMINUM CASEMENT WINDOW

PRODUCT APPROVAL DRAWINGS



6135 NW 167th St. STE E-1
Miami Gardends, FL 33015
Ph. (305) 698-0550

SERIES "CM 100"
OUTSWING ALUMINUM
CASEMENT WINDOW
LARGE MISSILE IMPACT (L.M.I.)

RC BES WINDOWS LLC
12900 NW 38th AVE.
OPA-LOCKA, FL 33054
Ph. 305-203-0780
Contact@BESmiami.com

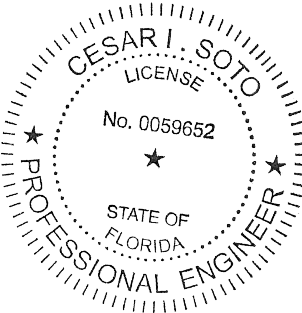
DRAWINGS NUMBER
24-0197P.11

REVISIONS:

No.	Date	Description

DATE:
May 31st, 2024

DRAWN BY AO	SCALE N.T.S.
Sheet No. 00 OF 12	SHEET NO. Cover



Digitally signed by Cesar I Soto
Contact Info: PE #59652
cesar.soto@paramountce.com
Date: 2025.01.28 15:39:36-05'00'

CONTACT: (305)698-0550 OR (786)877-2699

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY CESAR I. SOTO P.E. ON THE DATE ADJACENT TO THE SEAL.

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01/28/2025

CM 100 OUTSWING ALUMINIUM CASEMENT WINDOW

GENERAL NOTES

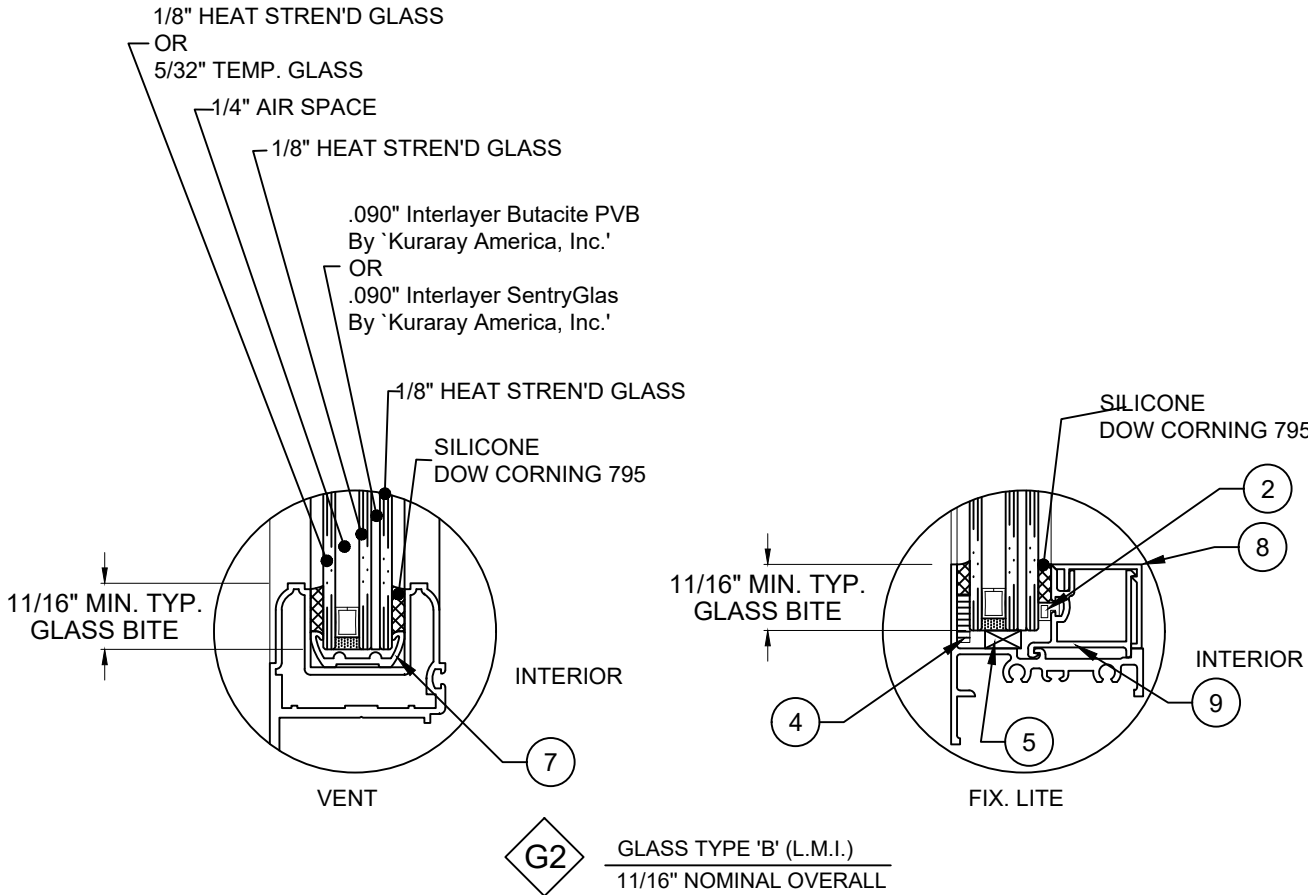
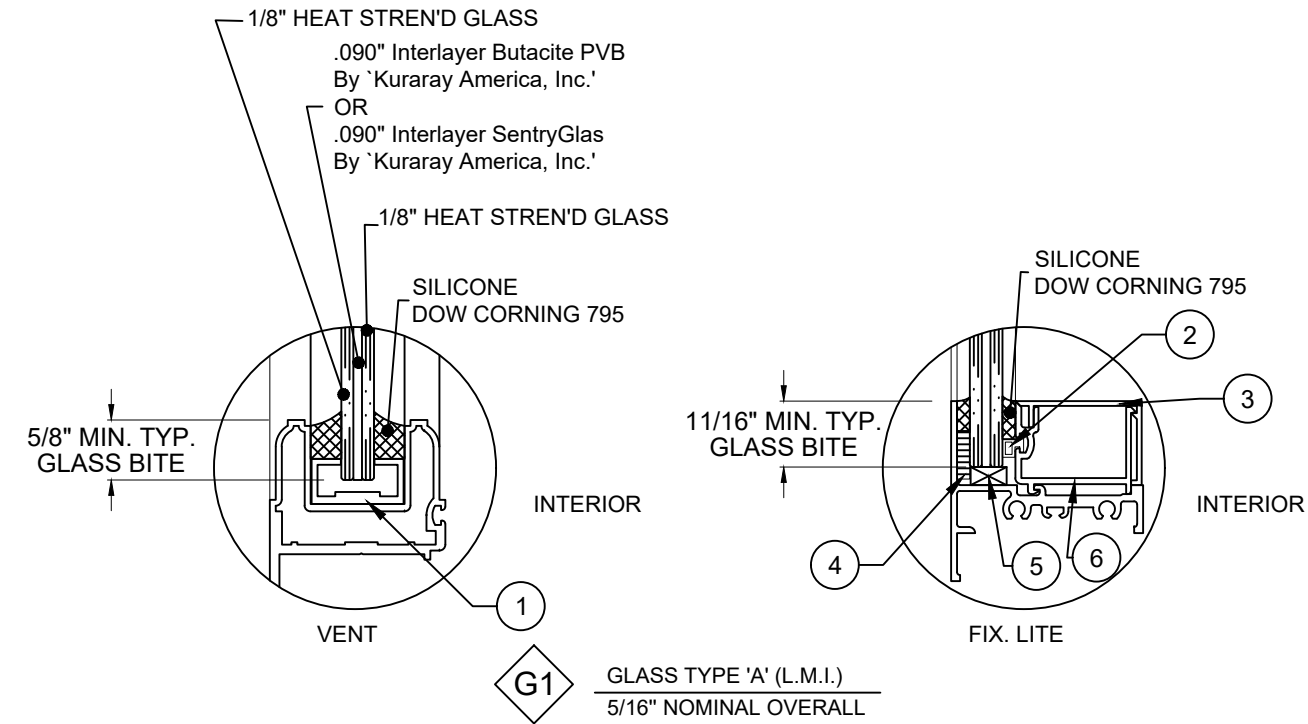
- A. THE PRODUCT SHOWN HEREIN IS DESIGNED AND TESTED TO COMPLY WITH THE FLORIDA BUILDING CODE 8TH EDITION 2023 (FBC 2023), INCLUDING HVHZ (HIGH VELOCITY HURRICANE ZONE)
- B. ADEQUACY OF THE EXISTING STRUCTURAL SUBSTRATE (METAL, CONCRETE, MASONRY, WOOD, ETC) NEEDS TO BE ABLE TO WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- C. WOODBUCKS EITHER 1BY OR 2BY (OPTIONAL) NEED TO BE DESIGNED AND SPECIFIED BY THE ARCHITECT OF RECORD OR THE ENGINEER OF RECORD AND NEED TO BE ABLE TO WITHSTAND ALL THE TRANSFERRED LOADS FROM THE GLAZING PRODUCT CORRECTLY.
- D. ALL ANCHORS NEED TO BE CORROSION RESISTANT, SEE PRODUCT APPROVAL FOR SPECIFIED ANCHORS REQUIRED.
- E. ALL DESIGN LOADS SHOWN IN APPROVAL ARE BASED ON ASD (ALLOWABLE STRESS DESIGN), TO GET ULTIMATE LOADS ASD LOADS NEED TO BE MULTIPLIED BY A FACTOR MULTIPLIER OF 1.6
- F. FINAL PRODUCT NEED TO HAVE LABEL.
- G. THESE GLAZING PRODUCTS ARE RATED FOR LARGE MISSILE IMPACT (L.M.I.) & SMALL MISSILE IMPACT (S.M.I.)
- H. ALL SITE SPECIFIC CONDITIONS IN ANY PROJECT NEEDS TO BE PROCURED BY A LICENSED REGISTERED ENGINEERED OR ARCHITECT.
- I. WHEN USING THIS PRODUCT, SHUTTERS ARE NOT NECESSARY.
- J. SHIMS THAT ARE USED WITH THIS SYSTEM NEED TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.
- K. THIS PRODUCT APPROVAL COMPLIES WITH ALL WATER INFILTRATION REQUIREMENTS FOR IMPACT AND HVHZ SYSTEMS
- L. MANUFACTURER NEEDS TO SHOW PRODUCT LABEL IN ALL MANUFACTURED SYSTEMS.

MAXIMUM DESIGN LOADS

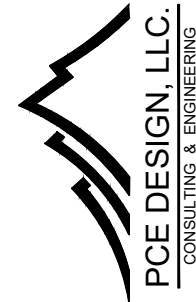
- A. SHEET 08 CONTAINS THE MAXIMUM ALLOWABLE DESIGN LOAD CAPACITY FOR FLANGE AND FLUSH FRAME WINDOW.
- B. ANCHORS SPACING ARE SHOWN IN ALL GLAZING ELEVATIONS.
- C. ANCHOR TYPES ARE SHOWN ON SHEET 04. THIS SHEET SHOWS THE EDGE DISTANCE, EMBEDMENT, TYPE OF ANCHOR, AND ALL REQUIREMENTS ANCHORES NEED TO COMPLY WITH THESE SPECIFICATIONS

GLASS DESIGN NOTES

- A. ALL GLASS CAPACITIES ON THIS APPROVAL ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS)
- B. ALL GLASS SHOWN ON THIS APPROVAL HAS BEEN TESTED FOR LMI AND HVHZ REQUIREMENTS.
- C. ALL SETTING BLOCKS FOR THE GLASS TO BE LOCATED AT 25% OF THE SPAN WIDTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24
- D. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24
- E. GLASS TYPE SHALL COMPLY WITH APPLICABLE GLAZING REQUIREMENTS PER CHAPTER 24 OF THE FBC.



GLASS CONFIGURATION FOR ALUMINUM WINDOW



6135 NW 167th St. STE E-1
Miami Gardends, FL 33015
Ph. (305) 698-0550

SERIES "CM 100"
OUTSWING ALUMINUM
CASEMENT WINDOW
LARGE MISSILE IMPACT (L.M.I.)

RC BES WINDOWS LLC
12900 NW 38th AVE.
OPA-LOCKA, FL 33054
Ph. 305-203-0780
Contact@BESmiami.com

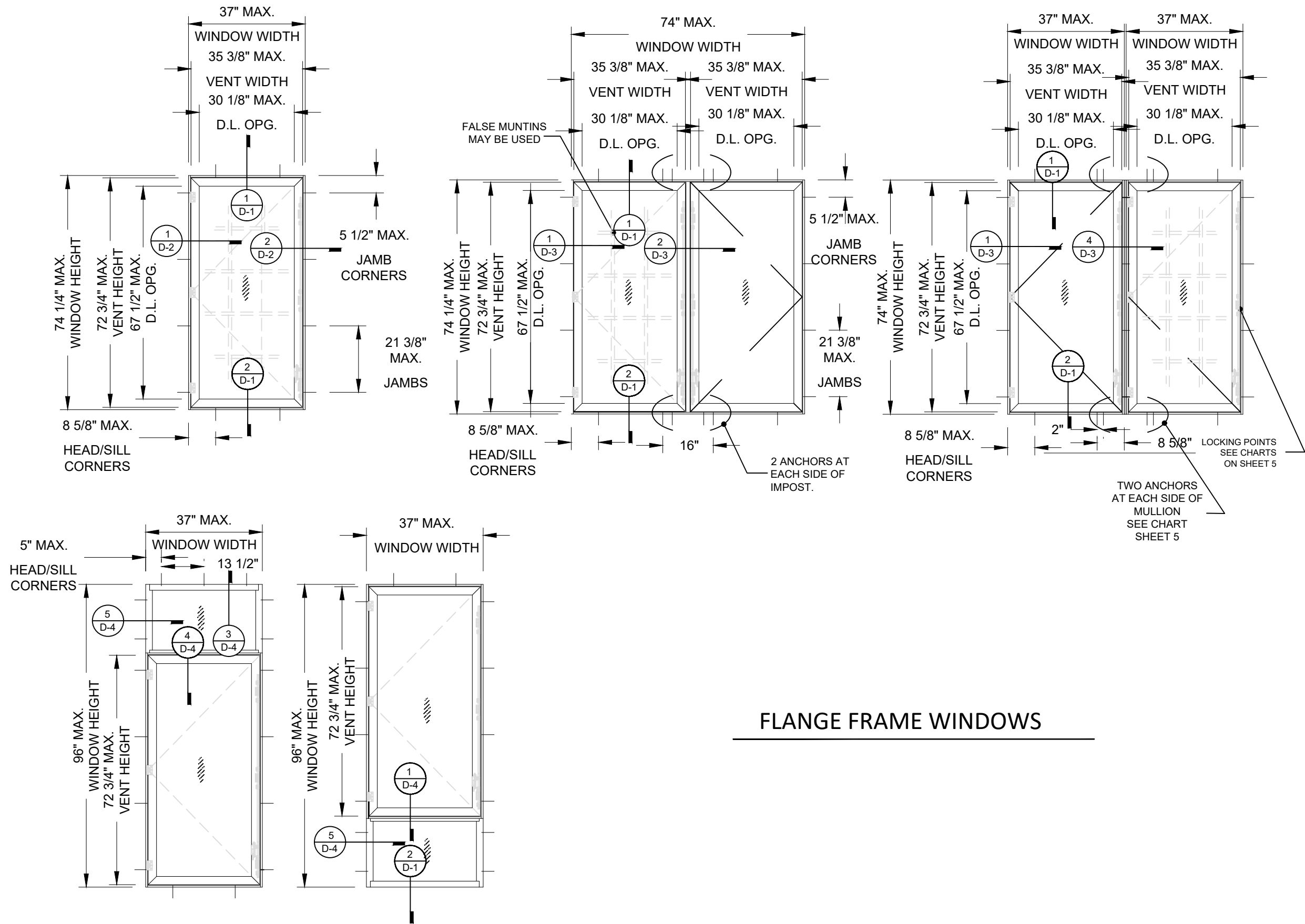
DRAWINGS NUMBER
24-0197P.11

REVISIONS:

No.	Date	Description

DATE:
May 31st, 2024

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Sheet No. 01 OF 12	SHEET NO. G-1



FLANGE FRAME WINDOWS



6135 NW 167th St. STE E-1
Miami Gardends, FL 33015
Ph. (305) 698-0550

SERIES "CM 100"
OUTSWING ALUMINUM
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LARGE MISSILE IMPACT (L.M.I.)

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DRAWINGS NUMBER

24-0197P.11

REVISIONS:

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DATE:

May 31st, 2024

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A0

SCALE

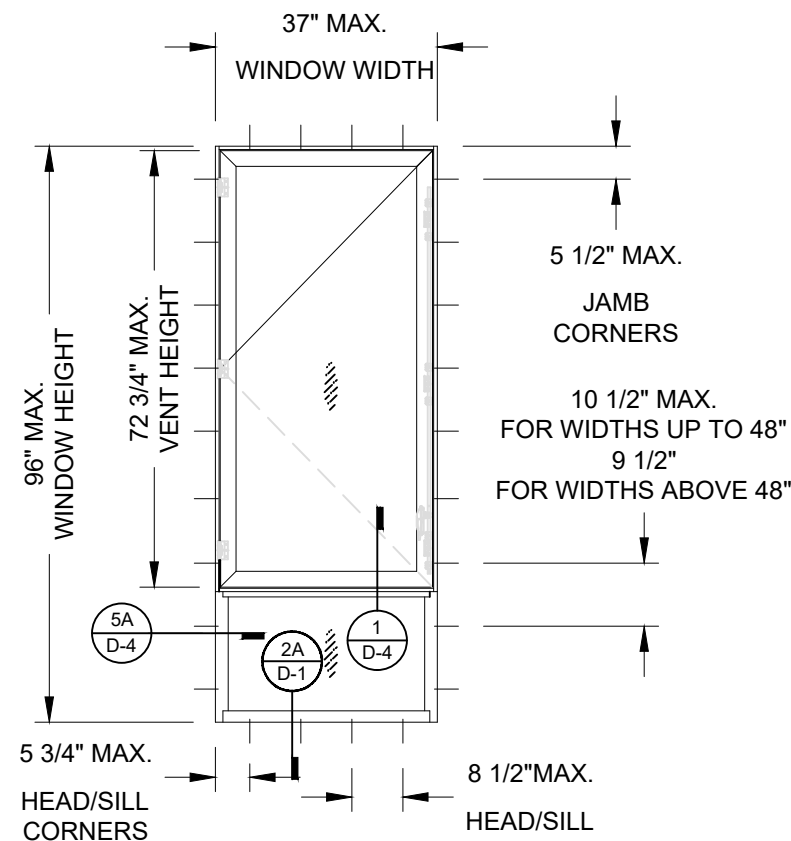
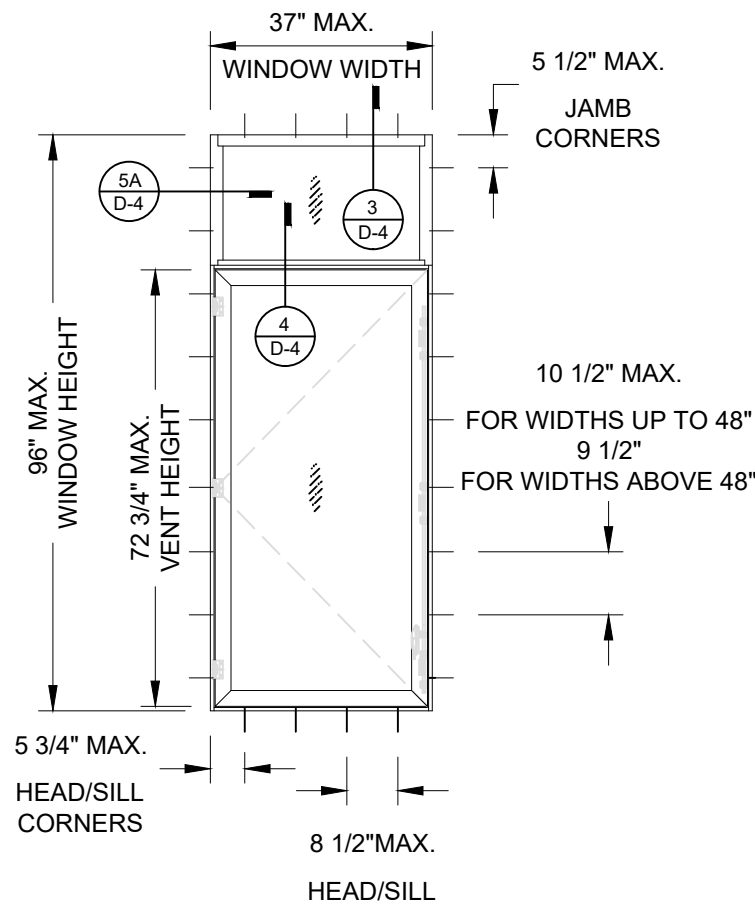
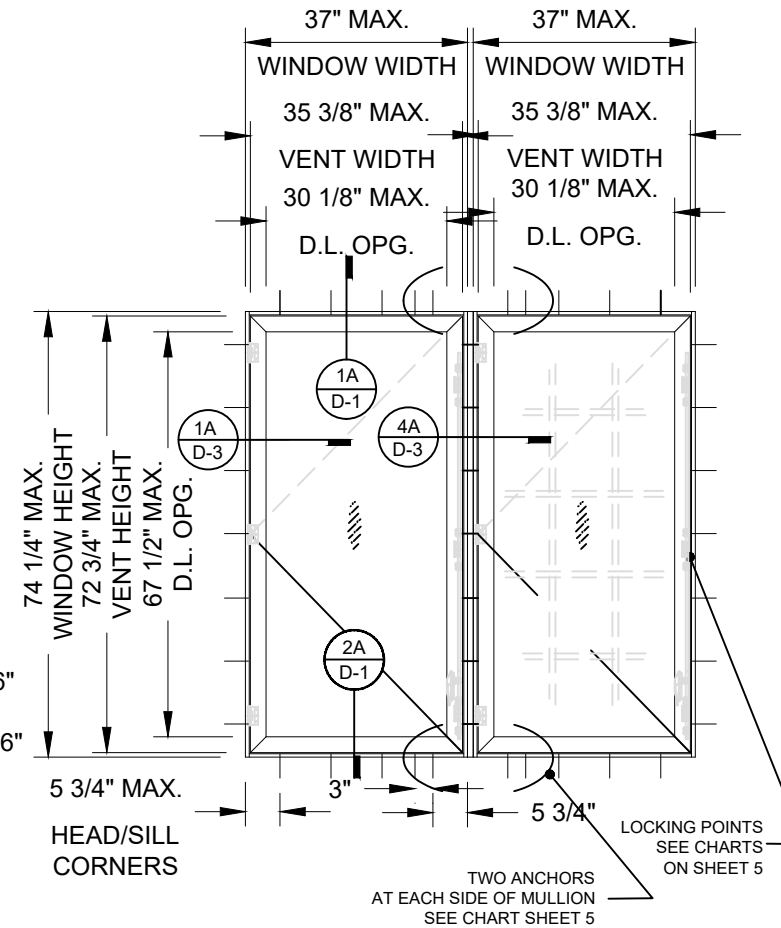
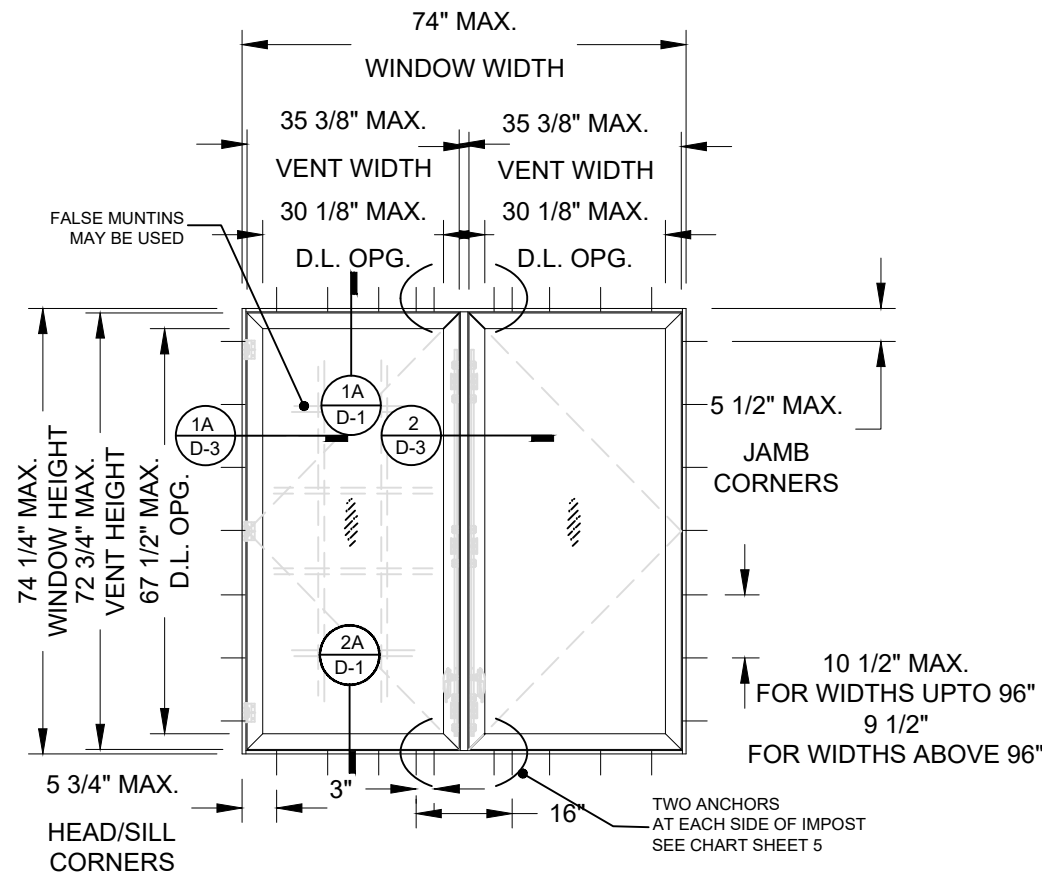
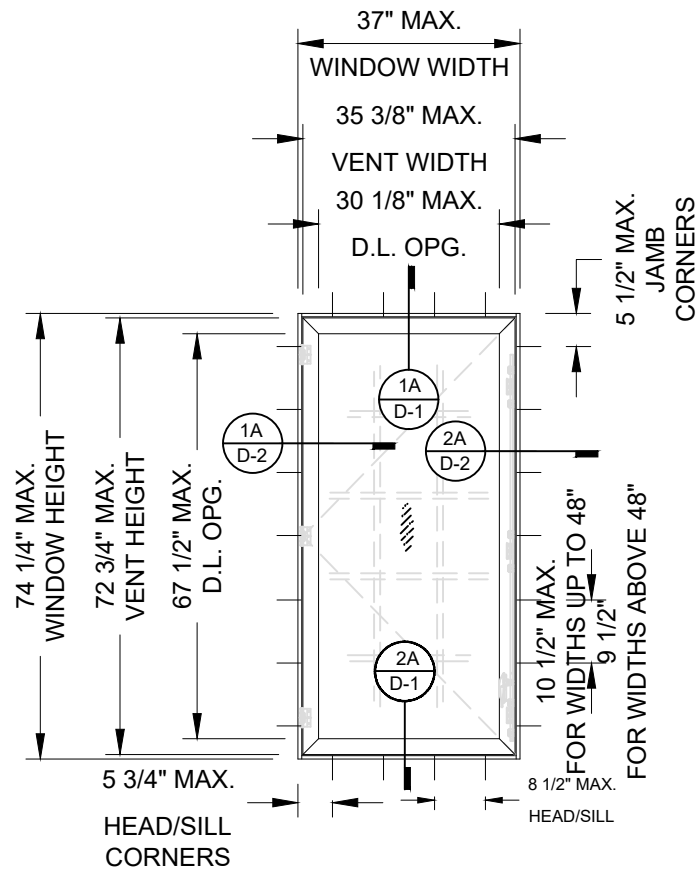
3/8" = 1'-0"

Sheet No.

02 OF 12

SHEET NO.

WE-1



FLUSH FRAME WINDOWS



6135 NW 167th St. STE E-1
Miami Gardens, FL 33015
Ph. (305) 698-0550

SERIES "CM 100"
OUTSWING ALUMINUM
CASEMENT WINDOW
LARGE MISSILE IMPACT (L.M.I.)

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DRAWINGS NUMBER
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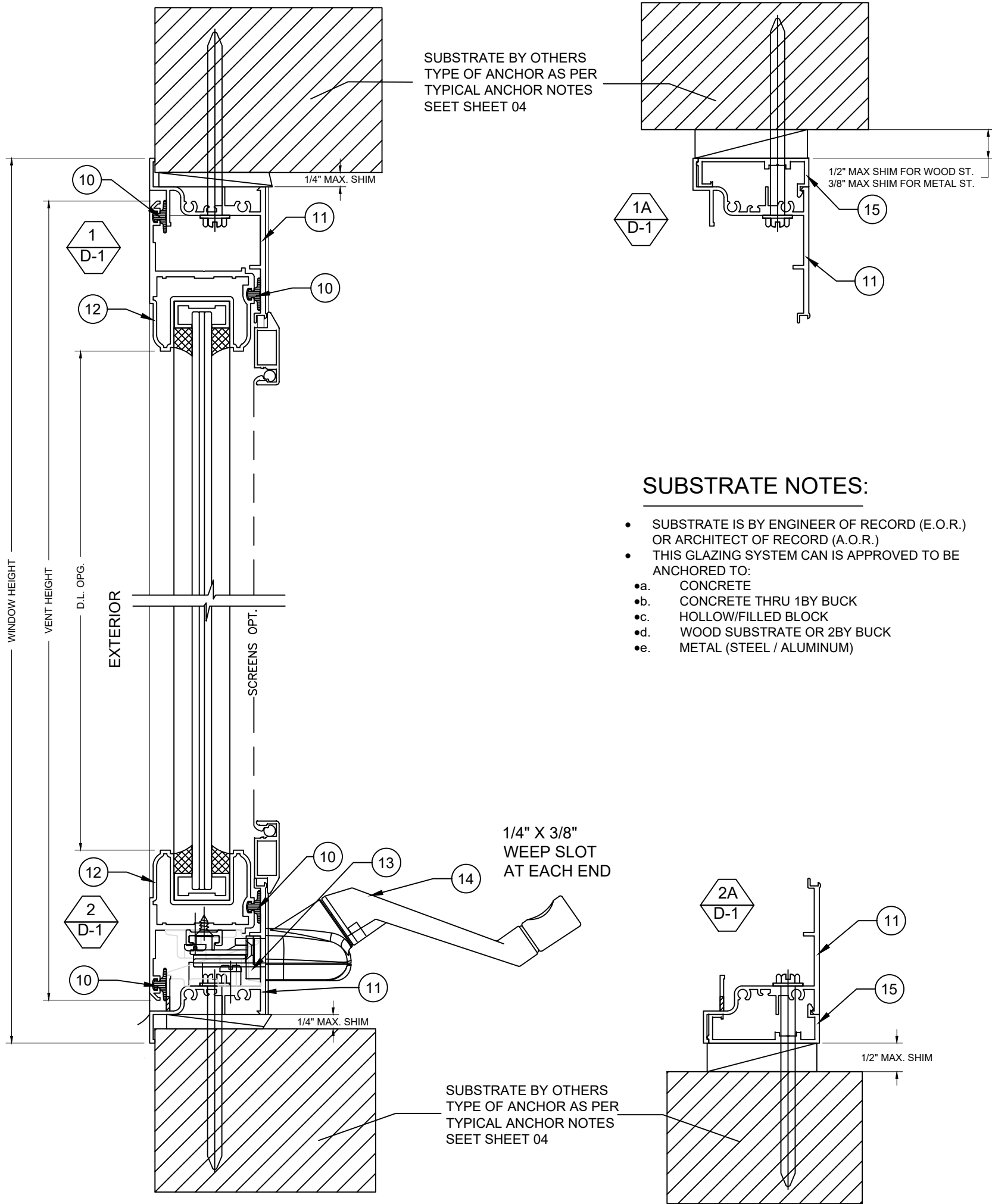
DATE:
May 31st, 2024

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A0

SCALE
3/8" = 1'-0"

SHEET NO.
03 OF 12

SHEET NO.
WE-2



TYPICAL ANCHORS

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu = 164KSI, Fy = 148 KSI)

1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu = 138KSI, Fy = 137 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES

1-1/2" MIN. EMBEDMENT INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS

1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

1-3/4" MIN, EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS

1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

1-3/4" MIN, EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)

INTO METAL STRUCTURES (HEAD/SILL/JAMBS)

(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS

ALUMINUM: 1/8" THK. MIN. (6063-T5)

STEEL: 1/8" THK. MIN. (FY=36 KSI MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#14 SMS OR SELF-DRILLING SCREWS (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS

(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS

ALUMINUM: 1/8" THK. MIN. (6063-T5) (NO SHIMS)

STEEL: 1/8" THK. MIN. (FY=36 KSI MIN.) (NO SHIMS)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.

INTO WOOD STRUCTURE = 1" MIN.

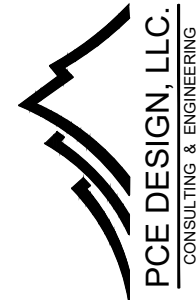
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG=0.55 MIN.

CONCRETE AT HEAD, SILL OR JAMBS f_c=3000 PSI MIN.

C-90 HOLLOW/FILLED BLOCK AT JAMBS f_m= 2000 PSI MIN.

SELANT:
ALL FRAMES VENT CORNERS AND INSTALATIONS SCREWS
SEALED WITH SILICONE



6135 NW 167th St. STE E-1
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SERIES "CM 100"
OUTSWING ALUMINUM
CASEMENT WINDOW
LARGE MISSILE IMPACT (L.M.I.)

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DRAWINGS NUMBER

24-0197P.11

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May 31st, 2024

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SCALE

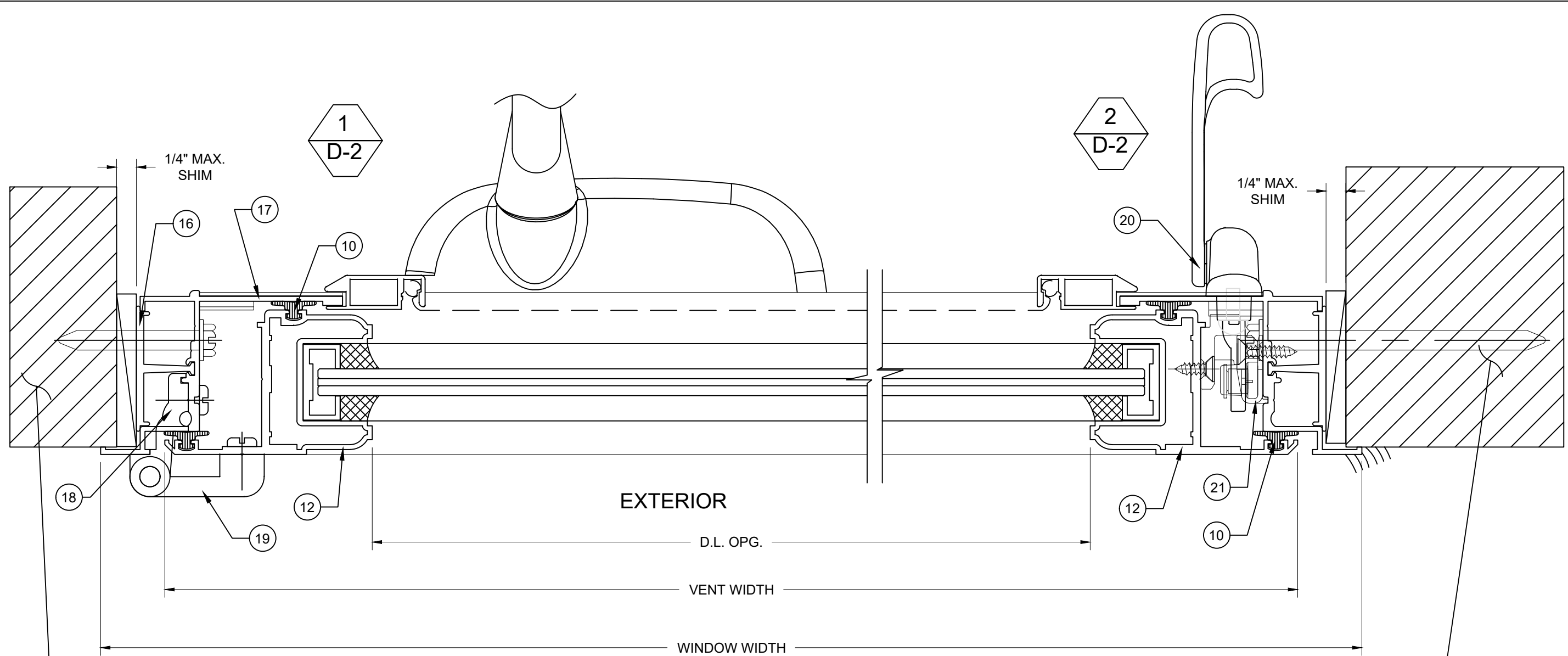
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Sheet No.

04 OF 12

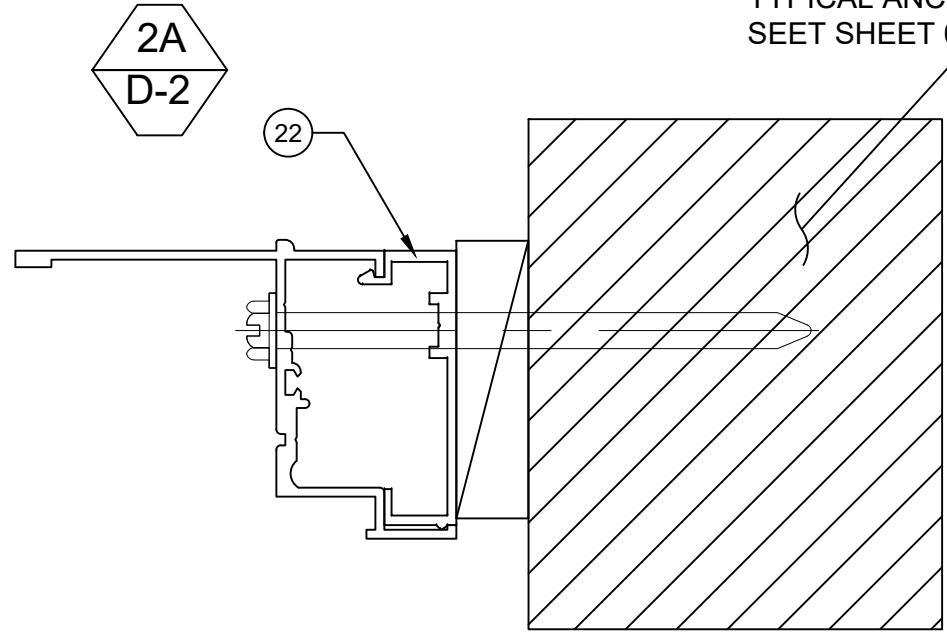
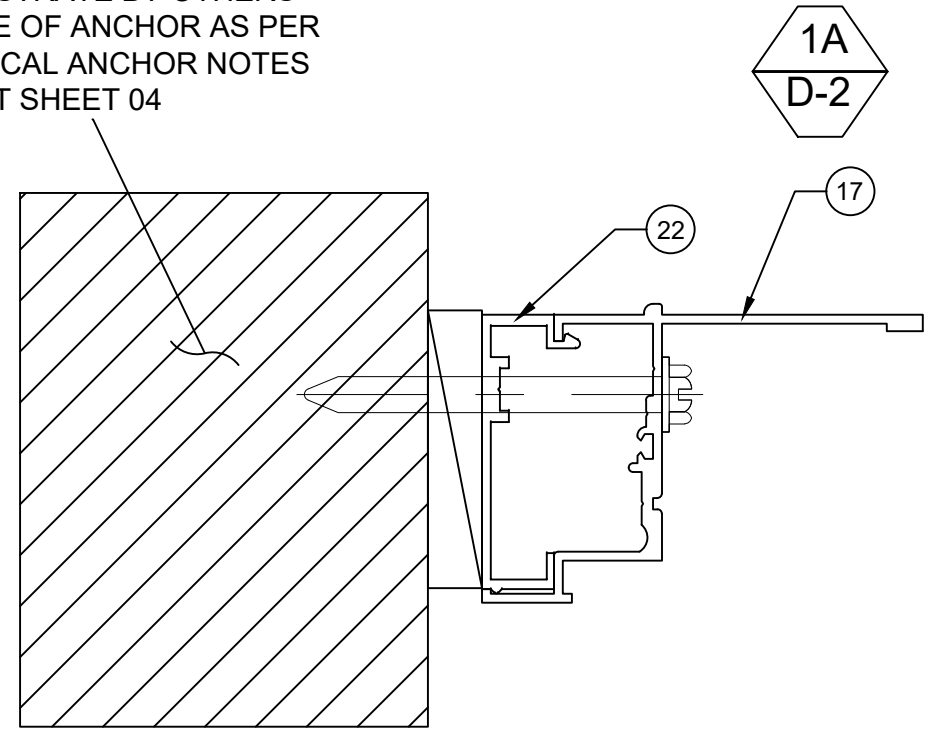
SHEET NO.

D-1



SUBSTRATE BY OTHERS
TYPE OF ANCHOR AS PER
TYPICAL ANCHOR NOTES
SEET SHEET 04

SUBSTRATE BY OTHERS
TYPE OF ANCHOR AS PER
TYPICAL ANCHOR NOTES
SEET SHEET 04

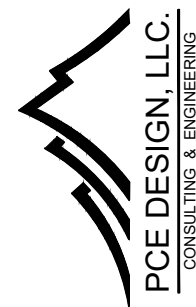
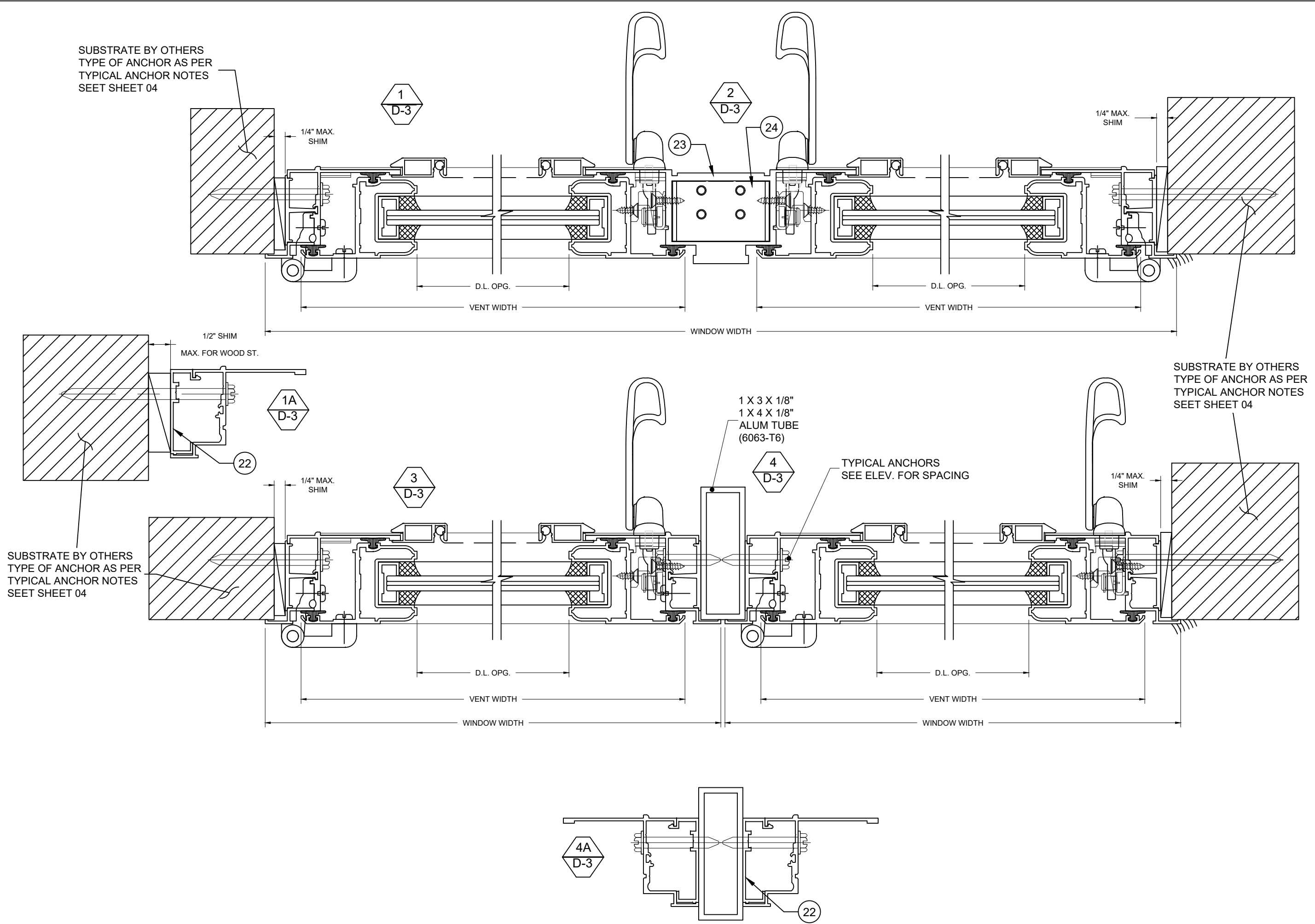


6135 NW 167th St. STE E-1
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SERIES "CM 100"
OUTSWING ALUMINUM
CASEMENT WINDOW
LARGE MISSILE IMPACT (L.M.I.)

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DRAWINGS NUMBER		
# 24-0197P.11		
REVISIONS:		
No.	Date	Description
DATE: May 31st, 2024		
DRAWN BY A0		SCALE 9" = 1'-0"
Sheet No. 05 OF 12		SHEET NO. D-2



6135 NW 167th St. STE E-1
Miami Gardens, FL 33015
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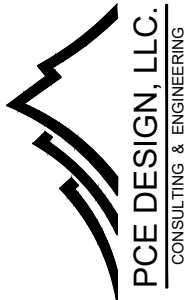
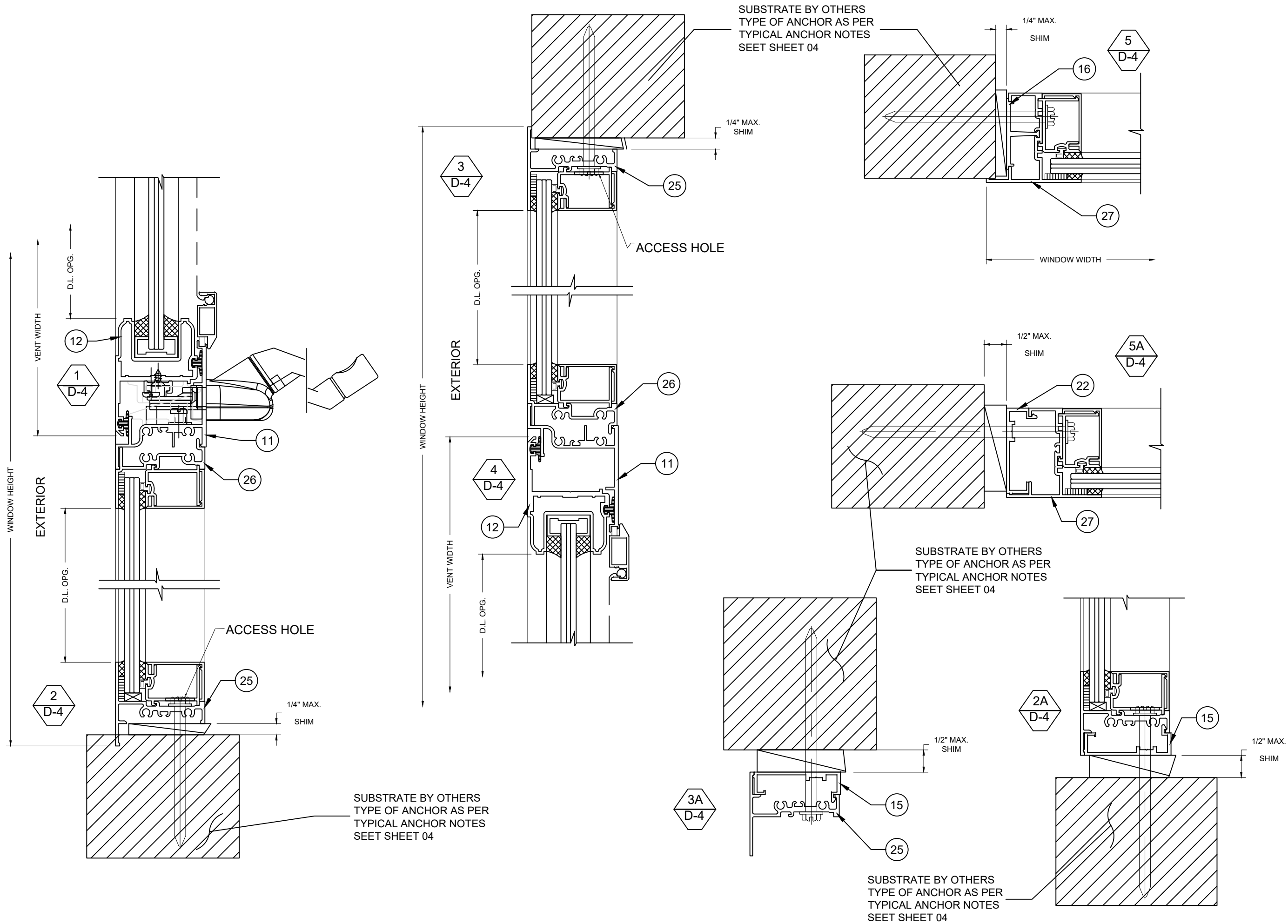
SERIES "CM 100"
OUTSWING ALUMINUM
CASEMENT WINDOW
LARGE MISSILE IMPACT (L.M.I.)

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DRAWINGS NUMBER
24-0197P.11

REVISIONS:		
No.	Date	Description

DATE: May 31st, 2024	
DRAWN BY A0	SCALE 9" = 1'-0"
Sheet No. 06 OF 12	SHEET NO. D-3



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SERIES "CM 100"
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CASEMENT WINDOW
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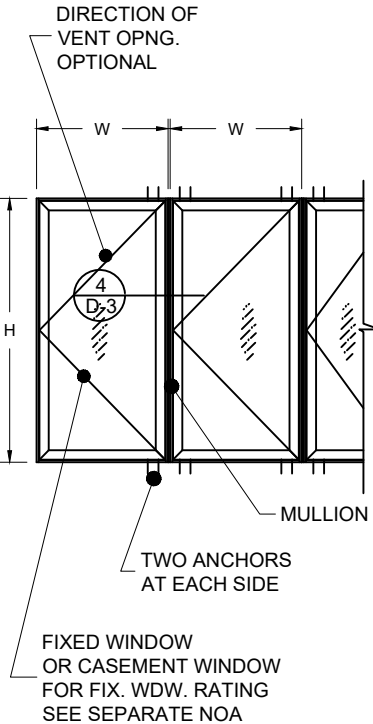
DRAWN BY
AO

SCALE
9" = 1'-0"

Sheet No.
07 OF 12

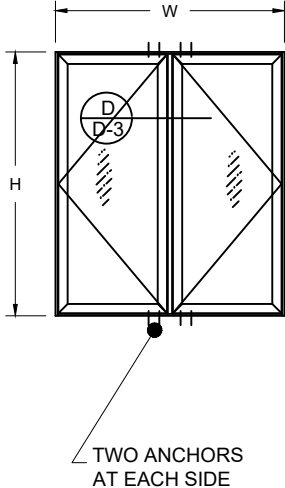
SHEET NO.
D-4

DESIGN LOAD CAPACITY - PSF SIDE BY SIDE SINGLE VENT WDWs.			
WINDOW DIMS.		GLASS TYPES 'A' & 'B'	
WIDTH (W)	HEIGHT (H)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
19-1/8"	38-3/8"	80.0	80.0
24"		80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
37"		80.0	80.0
42"		80.0	80.0
48"		80.0	80.0
53-1/8"		80.0	80.0
19-1/8"	48"	80.0	80.0
24"		80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
37"		80.0	80.0
42"		80.0	80.0
48"		80.0	80.0
53-1/8"		80.0	80.0
19-1/8"	50-5/8"	80.0	80.0
24"		80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
37"		80.0	80.0
42"		80.0	80.0
48"		80.0	80.0
53-1/8"		80.0	80.0
19-1/8"	60"	80.0	80.0
24"		80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
37"		80.0	80.0
42"		80.0	80.0
48"		80.0	80.0
53-1/8"		80.0	80.0
19-1/8"	63"	80.0	80.0
24"		80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
37"		80.0	80.0
42"		80.0	80.0
48"		80.0	80.0
53-1/8"		80.0	80.0
19-1/8"	66"	80.0	80.0
24"		80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
37"		80.0	80.0
42"		80.0	80.0
48"		80.0	80.0
53-1/8"		80.0	80.0
19-1/8"	72"	80.0	80.0
24"		80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
37"		80.0	80.0
42"		80.0	80.0
48"		80.0	80.0
53-1/8"		80.0	80.0
19-1/8"	74-1/4"	80.0	80.0
24"		80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
37"		80.0	80.0
42"		80.0	80.0
48"		80.0	80.0
53-1/8"		80.0	80.0



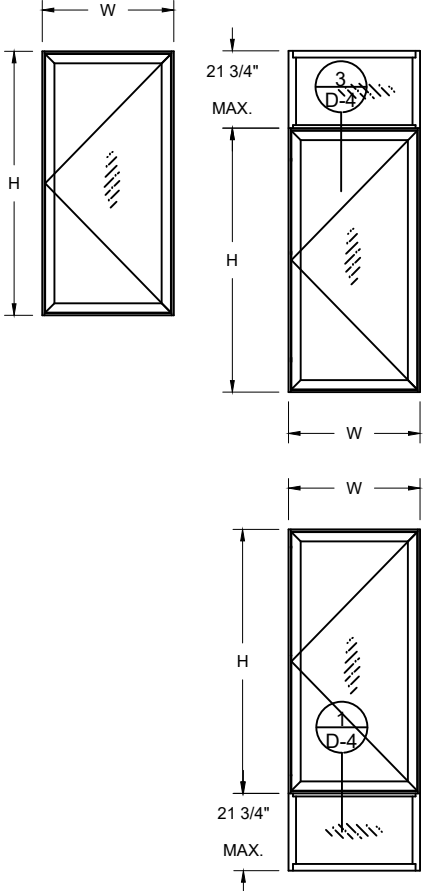
WDW. HEIGHT UPTO	NO. OF KEEPERS AT SASH	NO. OF HINGES AT SASH
29-1/4"	2	2
42"	3	2
44-1/4"	3	3
59-1/4"	4	3
74-1/4"	5	3

DESIGN LOAD CAPACITY - PSF DUAL VENT WINDOWS		
WINDOW DIMS.		GLASS TYPES 'A' & 'B'
WIDTH (W)	HEIGHT (H)	EXT.(+) INT.(-)
37"	38-3/8"	80.0
48"		80.0
53-1/8"		80.0
60"		80.0
72"		80.0
74"		80.0
84"		80.0
96"		80.0
106-1/4"		80.0
37"		80.0
48"	50-5/8"	80.0
53-1/8"		80.0
60"		80.0
72"		80.0
74"		80.0
84"		80.0
96"		80.0
106-1/4"		80.0
37"		80.0
48"		80.0
53-1/8"	60"	80.0
60"		80.0
72"		80.0
74"		80.0
84"		80.0
37"		80.0
48"		80.0
53-1/8"		80.0
60"		80.0
72"		80.0
74"	63"	80.0
84"		80.0
37"		80.0
48"		80.0
53-1/8"		80.0
60"		80.0
72"		80.0
74"		80.0
84"		80.0
37"		80.0
48"	66"	80.0
53-1/8"		80.0
60"		80.0
72"		80.0
74"		80.0
37"		80.0
48"		80.0
53-1/8"		80.0
60"		80.0
72"		80.0
74"	72"	80.0
84"		80.0
37"		80.0
48"		80.0
53-1/8"		80.0
60"		80.0
72"		80.0
74"		80.0
84"		80.0
37"		80.0
48"	74-1/4"	80.0
53-1/8"		80.0
60"		80.0
72"		80.0
74"		80.0
37"		80.0
48"		80.0
53-1/8"		80.0
60"		80.0
72"		80.0



WDW. HEIGHT UPTO	NO. OF KEEPERS AT SASH	NO. OF HINGES AT SASH
42"	2	2
74-1/4"	3	3

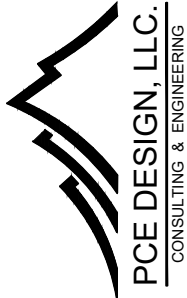
DESIGN LOAD CAPACITY - PSF SINGLE VENT WINDOWS		
WINDOW DIMS.		GLASS TYPES 'A' & 'B'
WIDTH (W)	HEIGHT (H)	EXT.(+) INT.(-)
19-1/8"	48"	80.0
24"		80.0
26-1/2"		80.0
30"		80.0
37"		80.0
42"		80.0
48"		80.0
53-1/8"		80.0
19-1/8"		80.0
24"		80.0
26-1/2"	50-5/8"	80.0
30"		80.0
37"		80.0
42"		80.0
48"		80.0
53-1/8"		80.0
19-1/8"		80.0
24"		80.0
26-1/2"		80.0
30"		80.0
37"	60"	80.0
42"		80.0
48"		80.0
53-1/8"		80.0
19-1/8"		80.0
24"		80.0
26-1/2"		80.0
30"		80.0
37"		80.0
42"		80.0
19-1/8"	63"	80.0
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48"		80.0
53-1/8"		80.0
19-1/8"		80.0
24"		80.0
26-1/2"	66"	80.0
30"		80.0
37"		80.0
42"		80.0
48"		80.0
53-1/8"		80.0
19-1/8"		80.0
24"		80.0
26-1/2"		80.0
30"		80.0
37"	72"	80.0
42"		80.0
48"		80.0
53-1/8"		80.0
19-1/8"		80.0
24"		80.0
26-1/2"		80.0
30"		80.0
37"		80.0
42"		80.0
19-1/8"	74-1/4"	80.0
24"		80.0
26-1/2"		80.0
30"		80.0
37"		80.0
42"		80.0
48"		80.0
53-1/8"		80.0
19-1/8"		80.0
24"		80.0



WDW. HEIGHT UPTO	NO. OF KEEPERS AT SASH	NO. OF HINGES AT SASH
42"	2	2
74-1/4"	3	3

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

FLANGE AND FLUSH FRAME WINDOWS



6135 NW 167th St. STE E-1
Miami Gardends, FL 33015
Ph. (305) 698-0550

SERIES "CM 100"
OUTSWING ALUMINUM
CASEMENT WINDOW
LARGE MISSILE IMPACT (L.M.I.)

RC BES WINDOWS LLC

12900 NW 38th AVE.
OPA-LOCKA, FL 33054
Ph. 305-203-0780
Contact@BESmiami.com

DRAWINGS NUMBER

24-0197P.11

REVISIONS:

No.	Date	Description

DATE:

May 31st, 2024

DRAWN BY

A0

SCALE

NTS

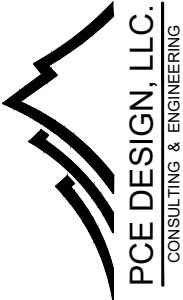
Sheet No.

SHEET NO.

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D-5

ITEM	PARTNo	DESCRIPCION	MATERIAL	MANUFACTER/SUPPLIER
1	P-049	GLAZING INSERT	RIGID PVC	MELTPOINT
2	V-059	VINYL FOR LAM. & LAM. INSUL GLASS (FIX.)	PVC	MELTPOINT, DUROMETER 75±5 SHORE A
3	CM100-018	SNAP COVER (LAM. GLASS)	6063-T6	FOR FIXED WINDOW
4		1/8" x 1/2" SINGLE FACETAPE	-	-
5		3/16" x 3/8" x 4" LG. SETTING BLOCK	EPDM	DUROMETER 80±5 SHORE A
6	CM100-016	GLAZING BEAD (LAM. GLASS)	6063-T6	FOR FIXED WINDOW
7	V-055	VINYL FOR LAM. INSUL GLASS- VENT	PVC	DUROMETER 75±5 SHORE A
8	CM100-019	SNAP COVER (LAM. INSUL GLASS)	6063-T6	FOR FIXED WINDOW
9	CM100-017	GLAZING BEAD (LAM. INSUL GLASS)	6063-T6	FOR FIXED WINDOW
10	V-033	TREMCO TR-5804N SPONGE	NEOPRENE	-
11	CM100-002	FRAME HEAD AND SILL	6063-T6	FOR FIXED WINDOW
12	CM100-026	VENT FRAME	6063-T6	-
13	P-025	PLASTIC CAM M & M	NYLON	-
14	CD25 & CD35	SINGLE ARM OPERATOR	ST. STEEL	ROTO HARDWARE SYSTEMS
15	CM100-032	FLUSH ADAPTER HEAD / SILL	6063-T6	-
16	CM100-012	JAMB ANCHOR CLIP	6063-T6	-
17	CM100-001	FRAME JAMB	6063-T6	-
18	CM100-014	FRAME HINGE	6005-T5	INSTALLED WITH (2) #10 x 3/8" MS
19	CM100-013	VENT HINGE	6005-T5	INSTALLED WITH (3) #10 x 3/8" MS
20	LB05-6645	3 POINT LOCK ASSEMBLY	-	ROTO HARDWARE SYSTEMS
21	GT553	GUIDE HOUSING	-	ATTACHED W/ (3) #8 x 3/4" SMS
22	CM100-033	FLUSH ADAPTER JAMB	6063-T6	-
23	CM100-032	VERTICAL IMPOST	6063-T6	-
24	CM100-021	ANCHOR CLIP FOR VERTICAL IMPOST	6063-T6	-
25	CM100-015	FRAME HEAD / SILL (FIX.)	6063-T6	FOR FIXED WINDOW
26	CM100-008	HORIZ IMPOST	6063-T6	FOR FIXED WINDOW
27	CM100-007	FRAME JAMB (FIX.)	6063-T6	FOR FIXED WINDOW
28	CM100-027	CORNER LOCK	6063-T6	-
29	#10 x 1/2"	VENT ASSEMBLY SCREWS	ST. STEEL	FH PHL SMS
30	#10 x 1"	FRAME ASSEMBLY SCREW	ST. STEEL	PH PHL SMS
31	#10 x 3/4"	IMPOST ASSEMBLY SCREWS	ST. STEEL	FH PHL SMS
32	#10 x 3/4"	IMPOST ASSEMBLY SCREWS	ST. STEEL	PH PHL SMS



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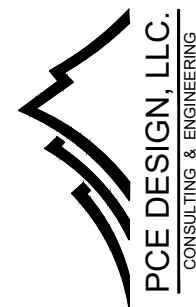
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DOOR EXTRUSIONS



6135 NW 167th St. STE E-1
Miami Gardends, FL 33015
Ph. (305) 698-0550

SERIES "CM 100"
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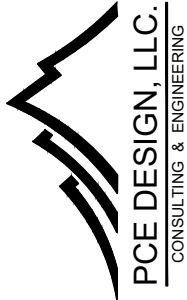
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24-0197P.11

REVISIONS:		
No.	Date	Description

DATE: May 31st, 2024	
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Sheet No. 10 OF 12	SHEET NO. E-1

① GLAZING INSERT	③ SNAP COVER (FIX. LAM. GL.)	⑥ GLASS STOP (FIX. LAM. GL.)	⑧ SNAP COVER (FIX. LAM. INSUL. GL.)
⑨ GLASS STOP (FIX. LAM. INSUL. GL.)	⑪ FRAME HEAD / SILL	⑫ VENT STILE	⑮ FLUSH ADAPTER HEAD / SILL
⑰ JAMB ANCHOR CLIP	⑰ FRAME JAMB	⑱ FRAME HINGE	⑱ VENT HINGE

DOOR EXTRUSIONS



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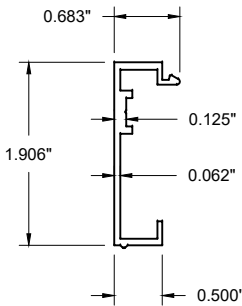
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Sheet No. 11 OF 12	SHEET NO. E-1
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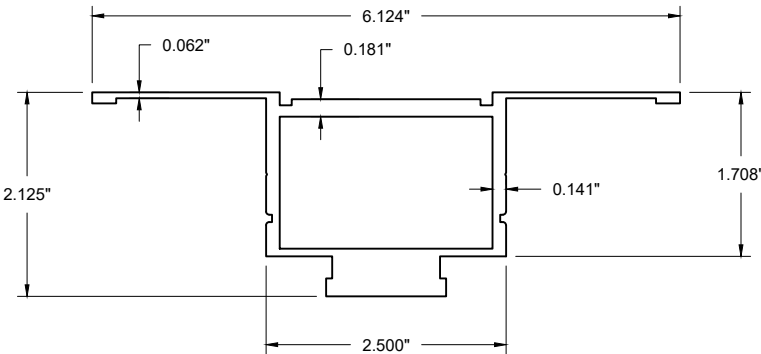
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FLUSH ADAPTER JAMB



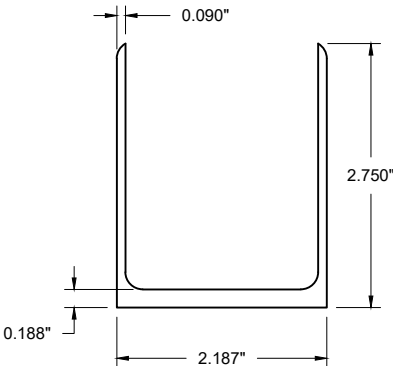
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VERT. IMPOST



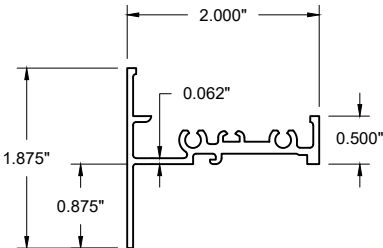
24

IMPOST ANCHOR CLIP



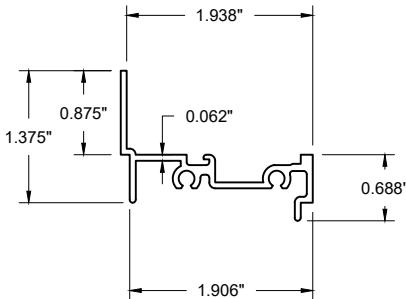
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FRAME HEAD / SILL (FIX.)



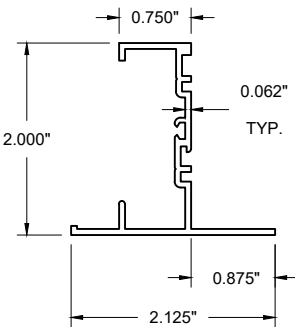
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HORIZ. IMPOST



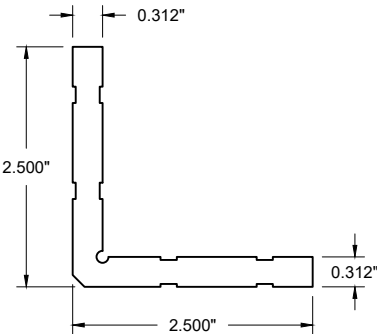
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FRAME JAMB (FIX.)

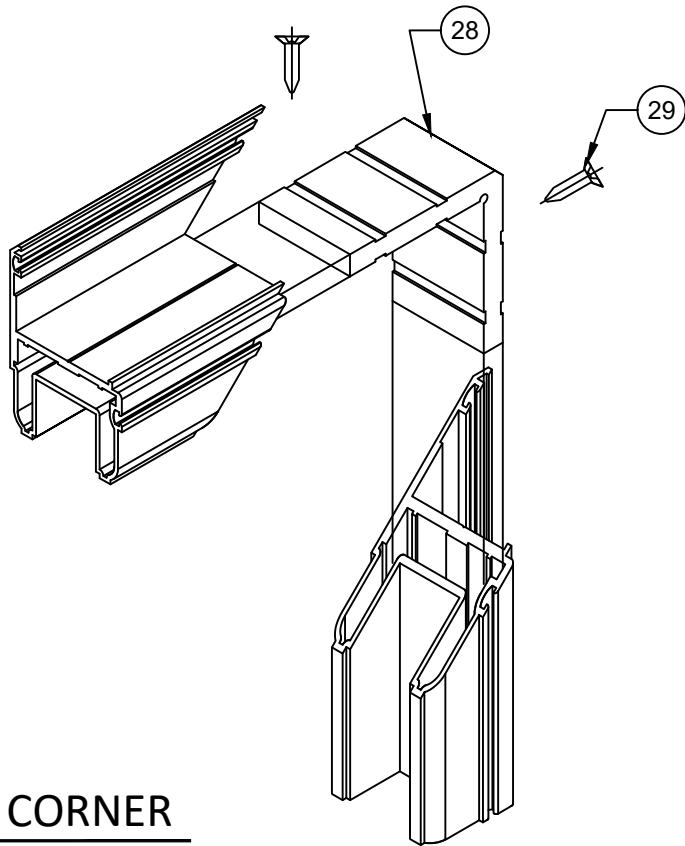


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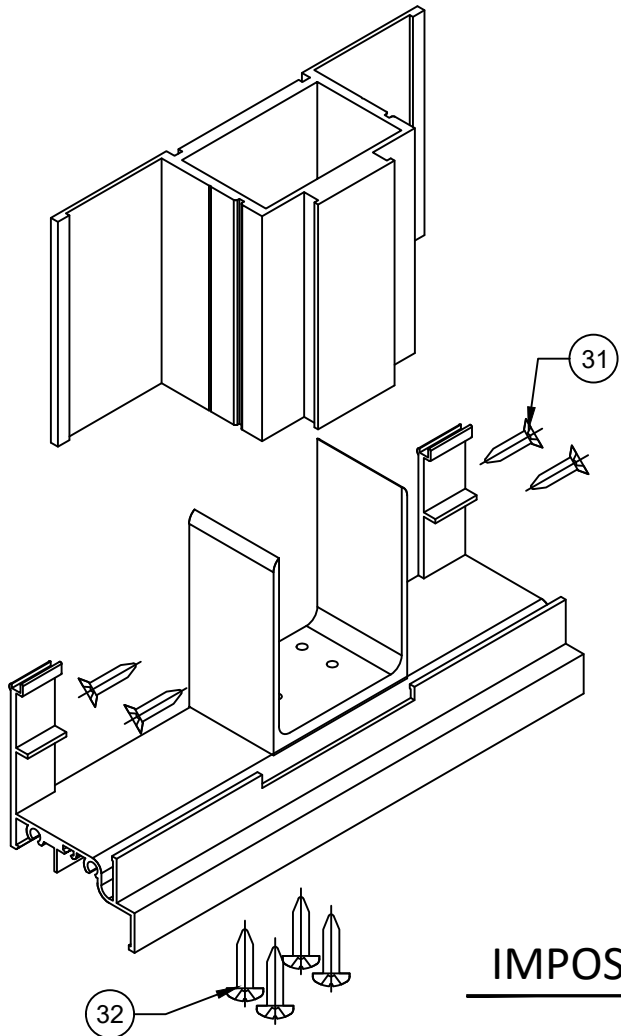
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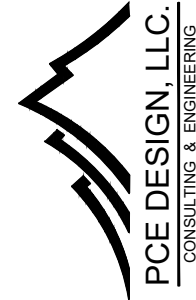
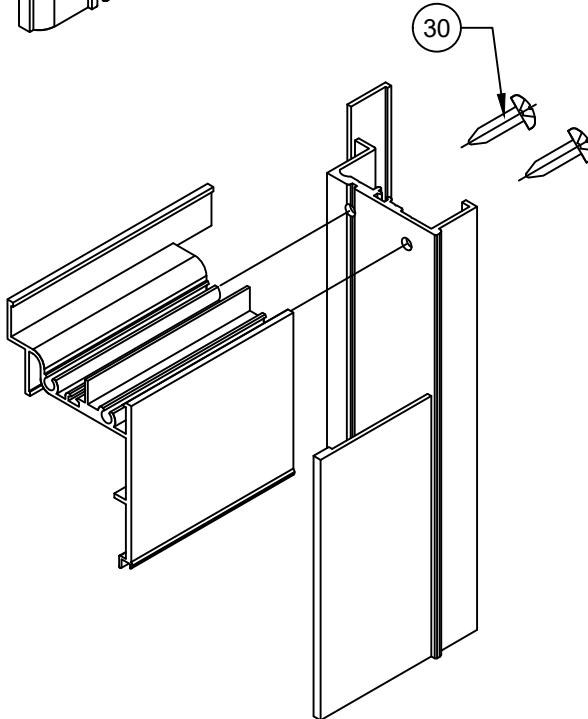
VENT CORNER



IMPOST CORNER



FRAME CORNER



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