

NOTICE OF ACCEPTANCE (NOA)

ES Windows, LLC
3550 NW 49th Street
Miami, FL 33142

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "EL400-10" Aluminum Sliding Glass Door - L.M.I.

APPROVAL DOCUMENT: Drawing No. **20-12D Rev C**, titled "ES-EL400-10" Alum. Sliding Glass Door (L.M.I.)", sheets 1 through 23 of 23, prepared by Al-Farooq Corporation dated 09/11/20 and last revised on AUG 16, 2021, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**Limitations:**

1. See Elevations in sheets **1, 2, 3, 4** and anchors requirements. See Header anchor capacity charts in sheet **6** and Glass capacity VS size in sheet **5**. Overall Lower Design Pressure (DP) controls for entire assembly.
2. See sheets **7** thru **13** for various configurations, tracks, pockets, non-pockets and allowable frame area.
3. See Water Rating qualified Sill Riser and alternate Sill Riser in sheet **22**.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, **Barranquilla, Columbia, S.A.**, series, and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews** NOA # **21-0728.01** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

*Ishaq I. Chanda*

NOA No. 22-0118.05
Expiration Date: July 20, 2027
Approval Date: February 17, 2022
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous approval.

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W16-73**, titled "ES-EL400 Alum. Sliding Glass Door (L.M.I.)", sheets 1 through 23 of 23, dated 11/28/16, with revision A dated 07/12/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC, and TAS 202-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum sliding glass door, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-17-009**, dated 06/15/17, signed and sealed by Constantin Bortes, P.E. with Letter of Clarification issued on 07/13/17, signed and sealed by Constantin Bortes, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014) and FBC-6th Edition (2017)**, dated 06/20/17 and revised on 07/13/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies with **ASTM E1300-09**.
3. Analysis recommendation letter prepared by Al-Farooq Corporation dated AUG 03, 2020 for #10 screw boss for Extrusion parts # ES-EL-400-.001, -.002 and -.005, signed and sealed by Jalal Farooq, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **16-1117.01** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**", expiring on 07/08/19.
2. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their "**Sentry Glass® (Clear and White) Glass Interlayer**", expiring on 07/04/18.
3. Notice of Acceptance No. **15-1201.11** issued to **Eastman Chemical Co. (MA)** for their "**Saflex Clear and Color Glass Interlayers**", expiring on 05/21/21.
4. Notice of Acceptance No. **14-0423.15** issued to **Eastman Chemical Co. (MA)** for their "**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core**", expiring on 11/11/18.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 22-0118.05
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F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-5th Edition (2014)** and **FBC-6th Edition (2017)** and No financial interest, dated 07/12/17, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Distributor Agreement signed by Carlos Garcia and by Evelyn Daes.
3. Laboratory compliance statement for Test Report No. **BT-ESW-17-009**, issued by Blackwater Testing, Inc., dated 06/15/17, signed and sealed by Dennis Duffy, CEO.
4. Proposal No. **16-1478** issued by the Product Control Section, dated 11/17/16, signed by Ishaq Chanda, P.E.

2. Evidence submitted under previous approval.

A. DRAWINGS

1. Drawing No. **20-12D Rev A** (former **W16-73 Rev A**), titled “ES-EL400 Alum. Sliding Glass Door (L.M.I.)”, sheets 1 through 23 of 23, prepared by Al-Farooq Corporation dated 09/11/20, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC, and TAS 202-94
6) Large Missile Impact Test per FBC, TAS 201-94
7) Cyclic Wind Pressure Loading per FBC, TAS 203-94
8) ANSI-Z97.1

along with marked-up drawings and installation diagram of aluminum sliding glass doors, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-19007**, dated 12/09/19, signed and sealed by Constantin Bortes, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis dated 09/11/20, complying with **FBC-7th Edition (2020)**, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E1300-09** and **-016**.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**”, expiring on 07/08/24.

Ishaq I. Chanda

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E. MATERIAL CERTIFICATIONS

2. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**”, expiring on 07/04/23.
3. Notice of Acceptance No. **15-1201.11** issued to **Eastman Chemical Co. (MA)** for their “**Saflex Clear and Color Glass Interlayers**”, expiring on 05/21/21.
4. Notice of Acceptance No. **18-0301.06** issued to **Eastman Chemical Co. (MA)** for their “**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core**”, expiring on 11/11/23.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-7th Edition (2020)** and No financial interest, dated 09/11/20, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Test Lab Compliance statement, as part of test report.

G. OTHER

1. This NOA **revises** NOA # **16-0617.02** and updates to FBC 2020 (7th Edition) expiring 07/20/22.
2. Distribution agreement between Energia Solar, S.A.-ES Windows and ES Windows, LLC, dtd 08/03/15, signed by Ms. Carla Garcia (MGR) and Andres Chamorro (Gen. MGR) respectively (original copy in various ES approved NOA(s) files.
3. RER Test proposals #**19-1155** dated 01/10/20 approved by Ishaq I. Chanda, P.E.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. Evidence submitted under previous approval.

A. DRAWINGS

1. Drawing No. **20-12D Rev C**, titled “ES-EL400-10” Alum. Sliding Glass Door (L.M.I.)”, sheets 1 through 23 of 23, prepared by Al-Farooq Corporation dated 09/11/20 and last revised on AUG 16, 2021, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. **None.**

C. CALCULATIONS

1. Comparative structural section properties sill riser analysis, dated 07/07/21, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E1300-09** and **-016**.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **21-0216.01** issued to **Eastman Chemical Company (MA)** (former Solutia, Inc.) for the “Saflex: Saflex Clear & Color glass interlayer”, expiring on 05/21/26.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-7th Edition (2020)** and No financial interest, dated 07/07/21, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Test Lab Compliance statement, as part of test report.

G. OTHER

1. This NOA **revises NOA No. 20-0427.11** and updates to FBC 2020 (7th Edition) expiring 07/20/22.
2. Distribution agreement between Energia Solar, S.A.-ES Windows and ES Windows, LLC, dtd 08/03/15, signed by Ms. Carla Garcia (MGR) and Andres Chamorro (Gen. MGR) respectively (original copy in various ES approved NOA(s) files.
3. Comparative Sectional properties analysis of sill Risers.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
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ES Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. New Evidence submitted.

A. DRAWINGS

1. Drawing No. **20-12D Rev C**, titled “ES-EL400-10” Alum. Sliding Glass Door (L.M.I.)”, sheets 1 through 23 of 23, prepared by Al-Farooq Corporation dated 09/11/20 and last revised on AUG 16, 2021, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. **None.**

C. CALCULATIONS

1. **None.**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **21-0216.01** issued to **Eastman Chemical Company (MA)** (former Solutia, Inc.) for the “Saflex: Saflex Clear & Color glass interlayer”, expiring on 05/21/26.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-7th Edition (2020)** and No financial interest, dated 01/12/22, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHER

1. This NOA **renews NOA No. 21-0728.05**, expiring 07/20/27.
2. Distribution agreement between Energia Solar, S.A.-ES Windows and ES Windows, LLC, dtd 08/03/15, signed by Ms. Carla Garcia (MGR) and Andres Chamorro (Gen. MGR) respectively (original copy in various ES approved NOA(s) files.
3. Comparative Sectional properties analysis of sill Risers (under previous approval).

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
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PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0728.01

Expiration Date 07/20/2022

By Ishaq I. Chande
Miami-Dade Product Control

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By Ishaq I. Chande
Miami-Dade Product Control

DAYLITE OPENING WIDTH:
PANEL WIDTH - 5.688"

DAYLITE OPENING HEIGHT:
PANEL HEIGHT - 5.813"

PANEL HEIGHT = DOOR FRAME HEIGHT - 1.250"

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.
SAFEGUARD REQUIREMENTS TO BE VERIFIED.

SERIES ES-EL400-10
ALUMINUM SLIDING GLASS DOOR

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE 2020 (7TH EDITION) FLORIDA BUILDING CODE
INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE
DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS
TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS
AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE
MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

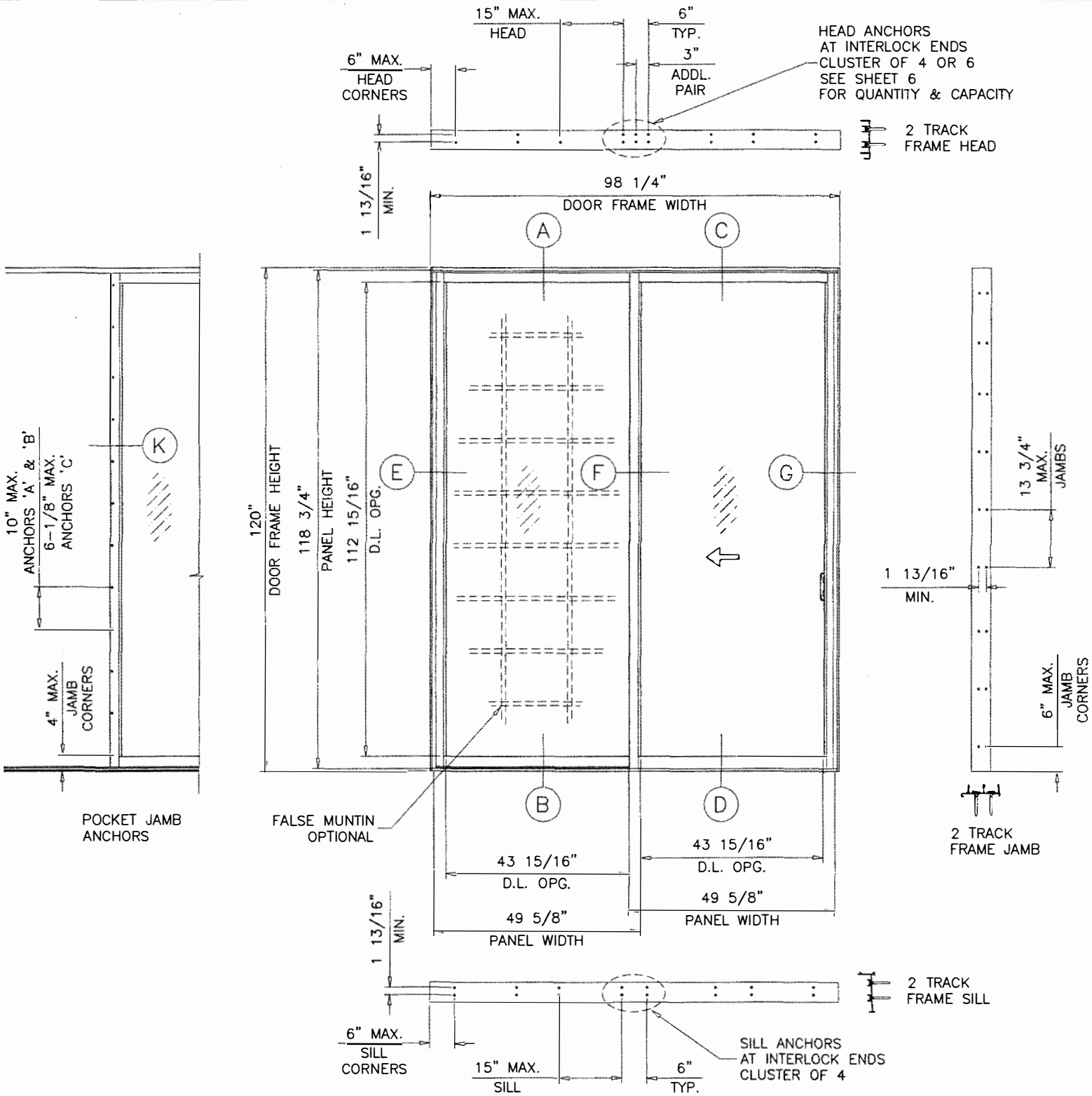
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION
FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY
OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR
WATER INFILTRATION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,
AND TO BE REVIEWED BY BUILDING OFFICIAL.

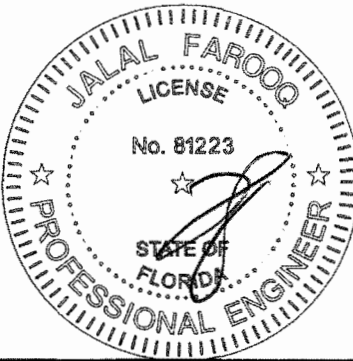
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.



INSTRUCTIONS:

USE CHARTS AS FOLLOWS

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** DETERMINE DOOR CAPACITY FROM TABLE ON SHEET 5 FOR THE REINFORCING OPTION USED.
- STEP 3** USING CHARTS ON SHEET 6 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.



AUG 16 2021

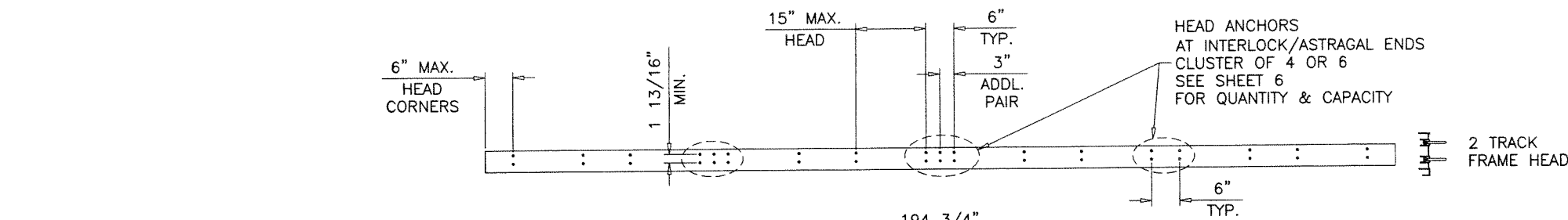
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 20-12D-ES

ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

no.	date	by	description
A	09.02.20	REV. PER RER COMMENTS	
B	06.23.21	SILL RISER REVISED	
C	08.04.21	SILL RISER OPTIONS ADDED	

date: 02-14-20
scale: 3/8"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
20-12D
sheet 1 of 23



PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 22-0118.05

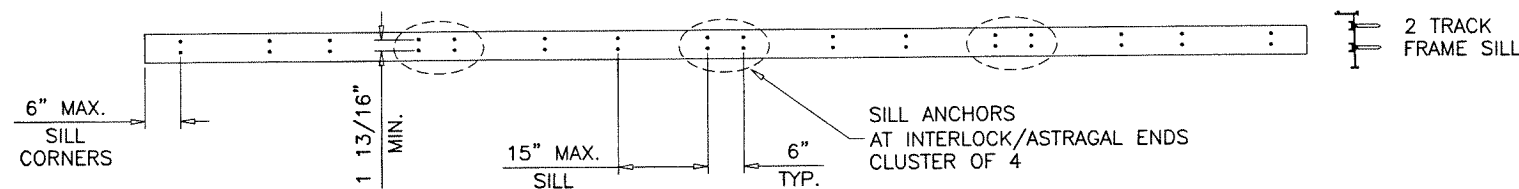
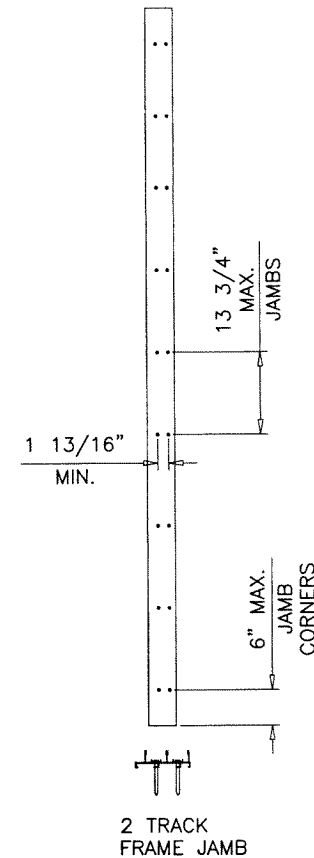
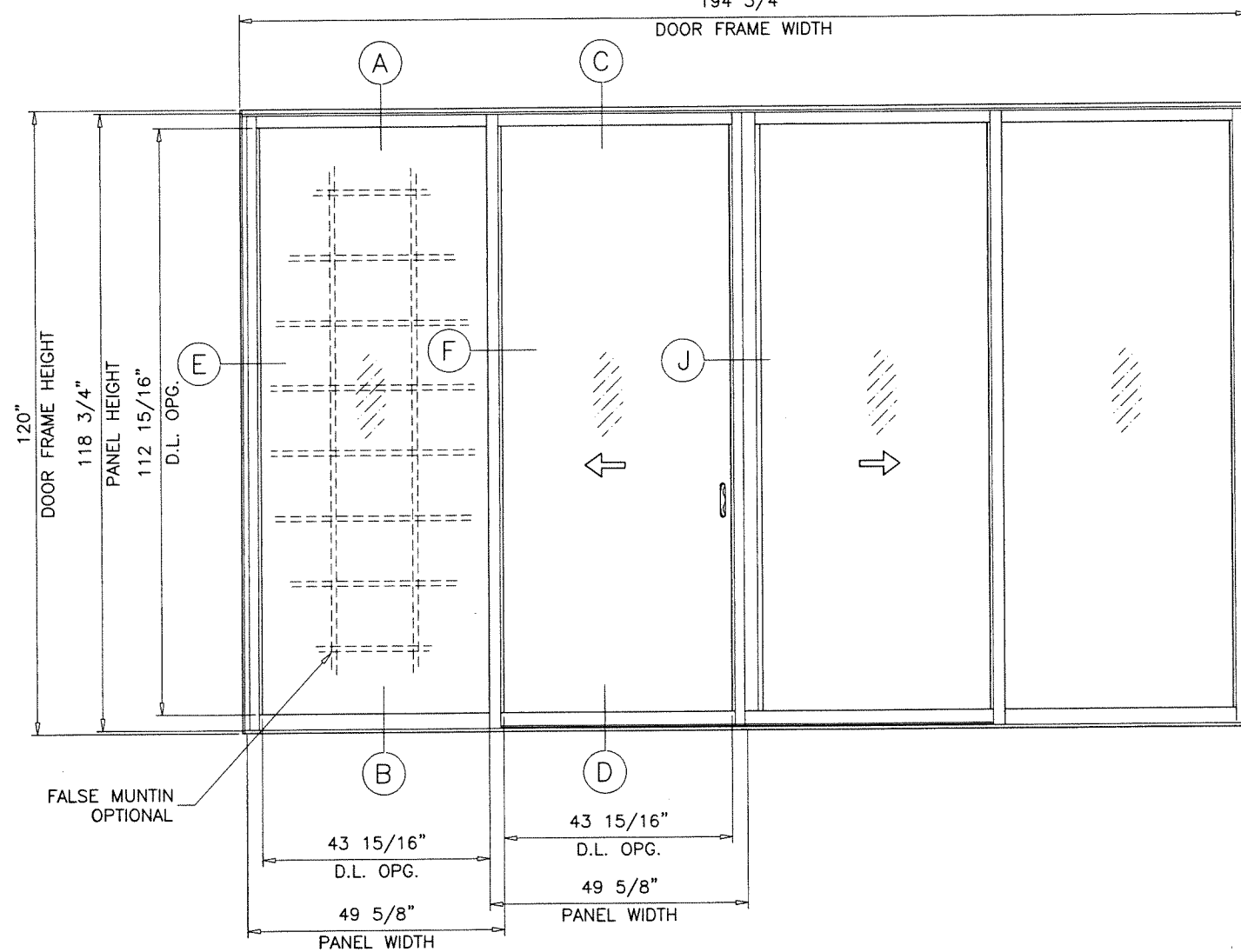
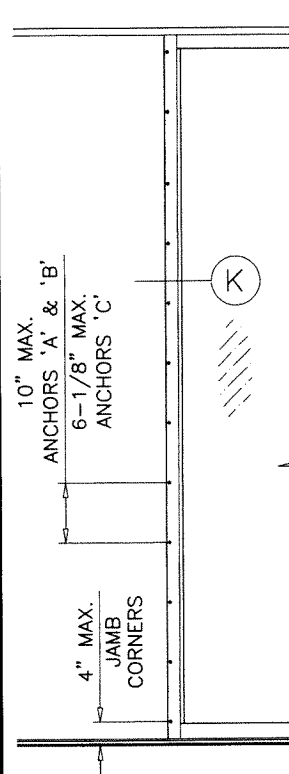
Expiration Date 07/20/2027

By Ishag I. Chande
Miami-Dade Product Control

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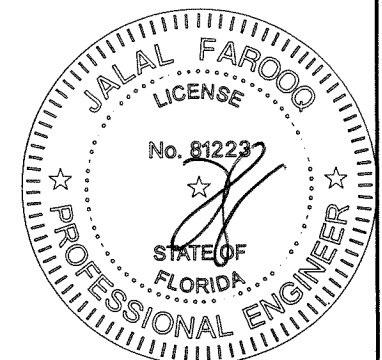
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By Ishag I. Chande
Miami-Dade Product Control



TYPICAL ELEVATION
OX-XO

AUG 16 2021



ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		date	by	description
no	date	no	date	description
A	09.02.20			NO CHANGE THIS SHEET
B	06.23.21			NO CHANGE THIS SHEET
C	08.04.21			NO CHANGE THIS SHEET
date: 02-14-20		scale: 3/8"=1'-0"	dr. by: TARIQ	chk. by:
drawing no.		20-12D		
sheet		2 of 23		

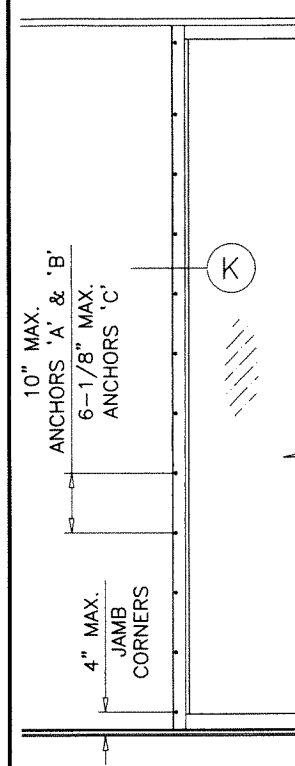
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

COMP-ANL\20-12D-ES

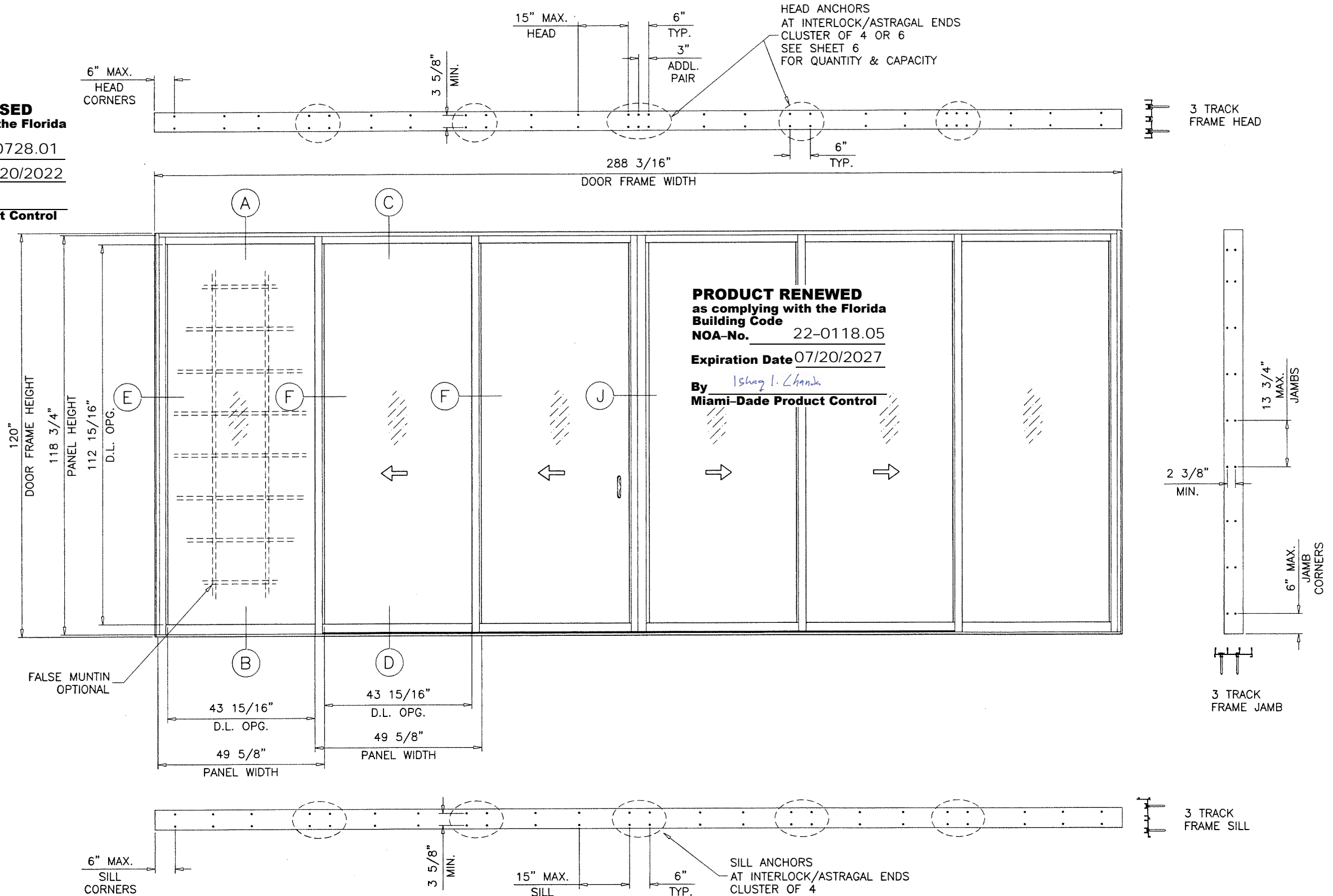
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By Ishaq I. Chande
Miami-Dade Product Control



POCKET JAMB
ANCHORS



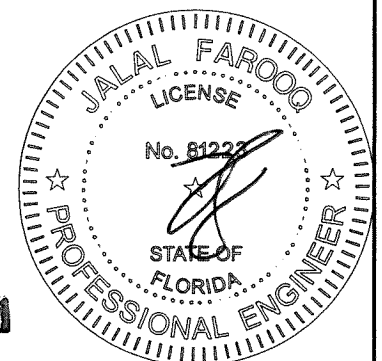
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Miami-Dade Product Control

TYPICAL ELEVATION
OXX-XXO

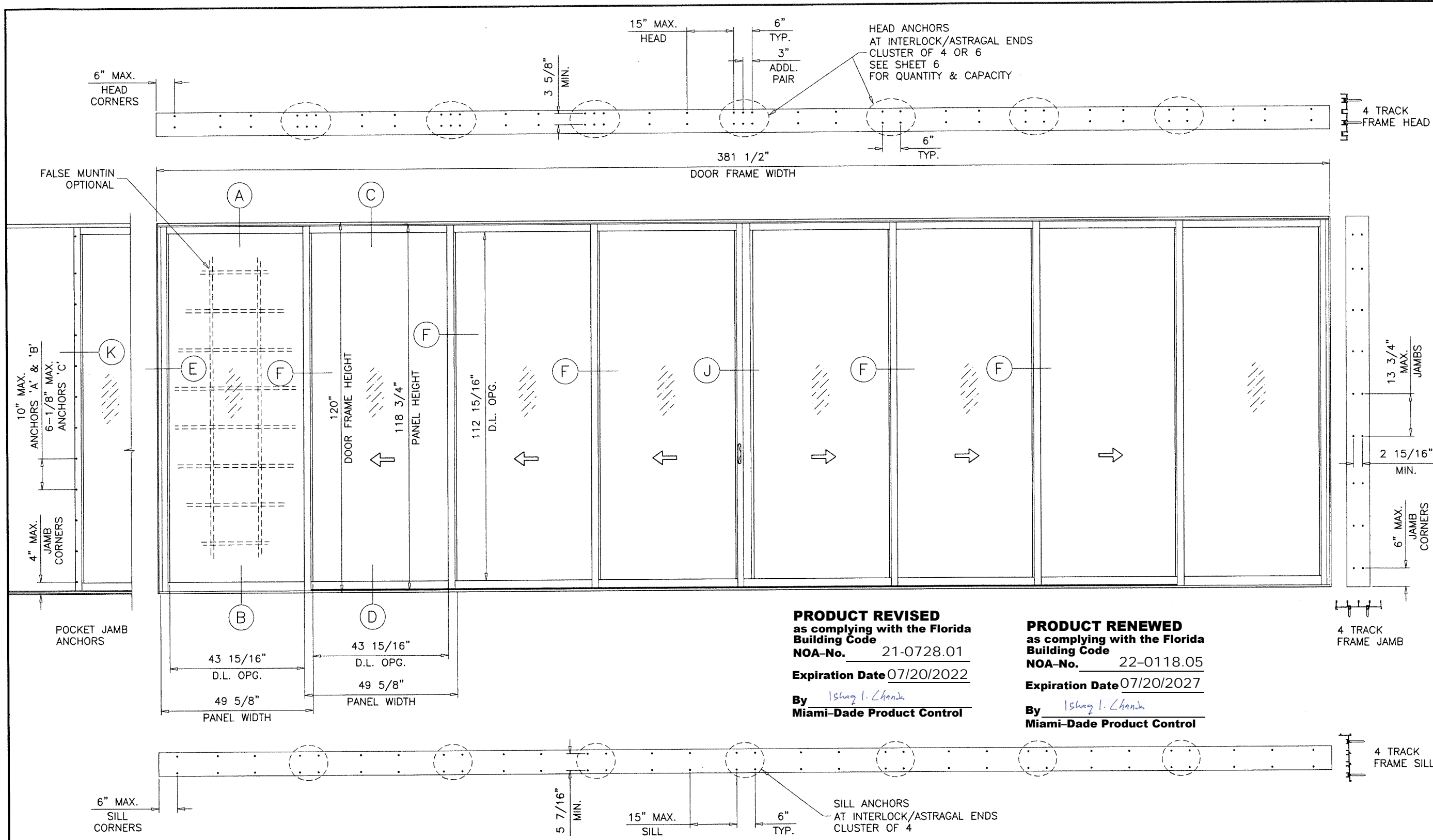
AUG 16 2021



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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COMP-ANL\20-12D-ES

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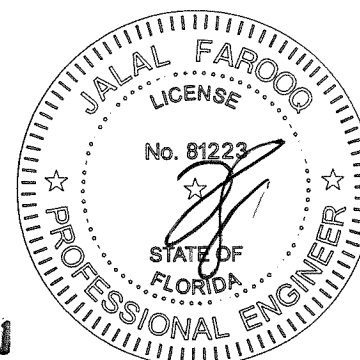
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date:	02-14-20	A	09.02.20		NO CHANGE THIS SHEET
		B	06.23.21		NO CHANGE THIS SHEET
		C	08.04.21		NO CHANGE THIS SHEET
scale:	3/8"=1'-0"				
dr. by:	TARIQ				
chk. by:					
drawing no.	20-12D				
sheet	3 of 23				



TYPICAL ELEVATION
OXXX-XXXO

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By Ishag I. Chank
Miami-Dade Product Control

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AUG 16 2021

af c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 262-6978
FAX. (305) 262-8100

ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)

E.S. WINDOWS, LLC
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no.	date	by	description
A	09.02.20		NO CHANGE THIS SHEET
B	06.23.21		NO CHANGE THIS SHEET
C	08.04.21		NO CHANGE THIS SHEET

date: 02-14-20

scale: 3/8"=1'-0"

dr. by: TARIQ

chk. by:

drawing no.

20-12D

sheet 4 of 23

COMP-ANL 20-12D-ES

DESIGN LOAD CAPACITY - PSF			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPES 'A' & 'A1'	
		EXT.(+)	INT.(-)
30	82	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		65.0	65.0
60		65.0	65.0
30	84	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		65.0	65.0
60		65.0	65.0
30	90	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		65.0	65.0
60		65.0	65.0
30	96	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		65.0	65.0
60		65.0	65.0
30	102	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		57.8	57.8
30	108	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		65.0	65.0
30	114	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		65.0	65.0
30	120	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		65.0	65.0

AVERAGE PANEL WIDTH = $\frac{\text{DOOR FRAME WIDTH}}{\text{NUMBER OF PANELS}}$

DOOR HEIGHT AND WIDTH SIZE MUST COMPLY
EGRESS REQUIREMENTS PER FBC AS REQUIRED.

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

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0728.01

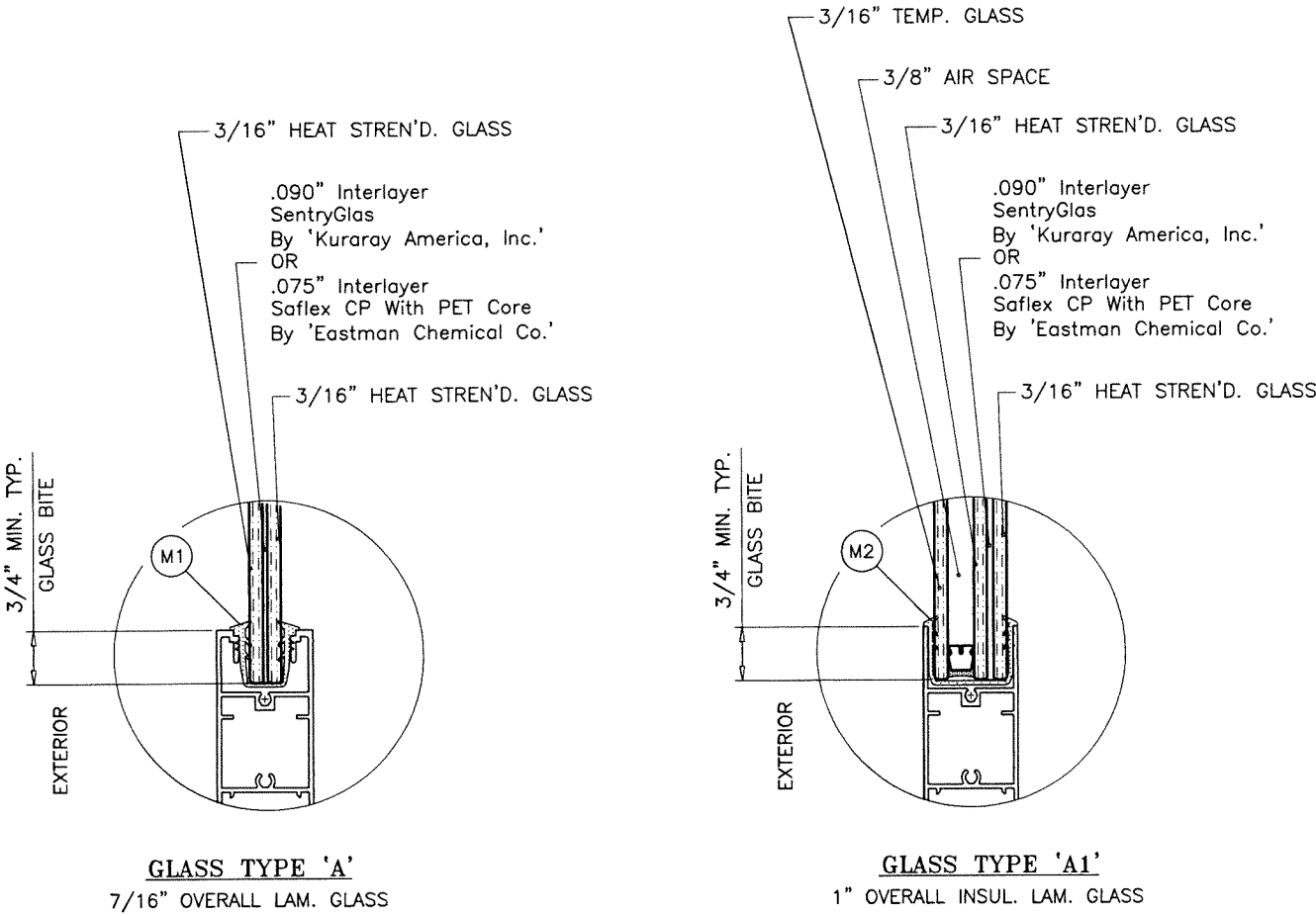
Expiration Date 07/20/2022

By Ishaq I. Chande
Miami-Dade Product Control

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 22-0118.05

Expiration Date 07/20/2027

By Ishaq I. Chande
Miami-Dade Product Control



GLAZING OPTIONS

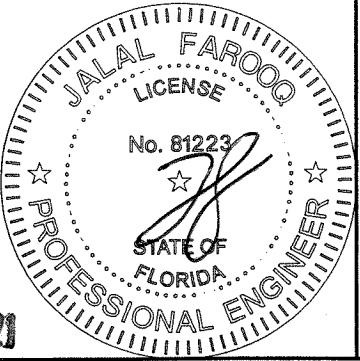
3/8" AIR SPACE CONSISTING OF:

SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000

SEE CHART ABOVE FOR DESIGN LOAD CAPACITY OF
DESIRED GLASS SIZE.

SEE CHART ON SHEET 6 FOR HEAD ANCHOR CAPACITY.

LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART
OR HEAD ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.



AUG 16 2021

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
C.A.N. 3538

ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description
	A	09.02.20		NO CHANGE THIS SHEET
	B	06.23.21		NO CHANGE THIS SHEET
	C	08.04.21		NO CHANGE THIS SHEET

date: 02-14-20
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
20-12D
sheet 5 of 23

COMP-ANL\20-12D-ES

HEAD ANCHOR LOAD CAPACITY - PSF										
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHOR TYPES 'A' & 'B'						ANCHOR TYPE 'C'		
		1/4" MAX. SHIM		3/8" MAX. SHIM		1/2" MAX. SHIM		1/4" MAX. SHIM	3/8" MAX. SHIM	
		4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	82	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0	62.6	65.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0	55.6	65.0	65.0	65.0	65.0
60		65.0	65.0	64.4	65.0	50.1	65.0	65.0	64.7	65.0
30	84	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0	61.1	65.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0	54.3	65.0	65.0	65.0	65.0
60		65.0	65.0	62.9	65.0	48.9	65.0	65.0	63.1	65.0
30	90	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0	57.0	65.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0	50.7	65.0	65.0	65.0	65.0
60		65.0	65.0	58.7	65.0	45.6	60.8	65.0	58.9	65.0
30	96	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	61.1	65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0	53.5	65.0	65.0	65.0	65.0
54		65.0	65.0	61.1	65.0	47.5	63.4	65.0	61.4	65.0
60		62.1	65.0	55.0	65.0	42.8	57.0	65.0	55.2	65.0
30	102	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	57.5	65.0	65.0	65.0	65.0
48		65.0	65.0	64.7	65.0	50.3	65.0	65.0	65.0	65.0
54		64.9	65.0	57.5	65.0	44.7	59.6	65.0	57.8	65.0
30	108	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	63.4	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	54.3	65.0	65.0	65.0	65.0
48		65.0	65.0	61.1	65.0	47.5	63.4	65.0	61.4	65.0
30	114	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	60.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	51.5	65.0	65.0	65.0	65.0
48		65.0	65.0	57.9	65.0	45.0	60.0	65.0	58.1	65.0
30	120	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	57.0	65.0	65.0	65.0	65.0
42		65.0	65.0	62.9	65.0	48.9	65.0	65.0	63.1	65.0
48		62.1	65.0	55.0	65.0	42.8	57.0	65.0	55.2	65.0

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 22-0118.05

Expiration Date 07/20/2027

By Ishaq I. Chande
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0728.01

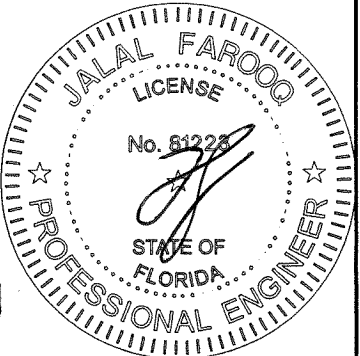
Expiration Date 07/20/2022

By Ishaq I. Chande
Miami-Dade Product Control

SEE CHART ON SHEET 5 FOR DESIGN LOAD CAPACITY OF
DESIRED GLASS SIZE.

SEE CHART ABOVE FOR HEAD ANCHOR CAPACITY.

LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART
OR HEAD ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.



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ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)

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revisions:

no	date	by	description
A	09.02.20		REV. PER RER COMMENTS
B	06.23.21		NO CHANGE THIS SHEET
C	08.04.21		NO CHANGE THIS SHEET

date: 02-14-20

scale: -

dr. by: TARIQ

chk. by:

drawing no.
20-12D

sheet 6 of 23

COMP-ANL\20-12D-ES

PRODUCT RENEWED
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Building Code
NOA-No. 22-0118.05

Expiration Date 07/20/2027

By Ishaq I. Chande
Miami-Dade Product Control

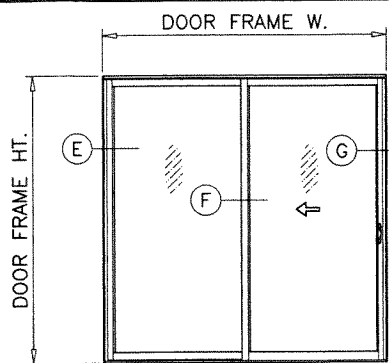
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0728.01

Expiration Date 07/20/2022

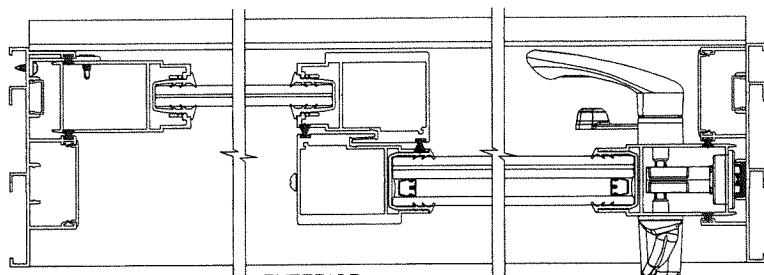
By Ishaq I. Chande
Miami-Dade Product Control

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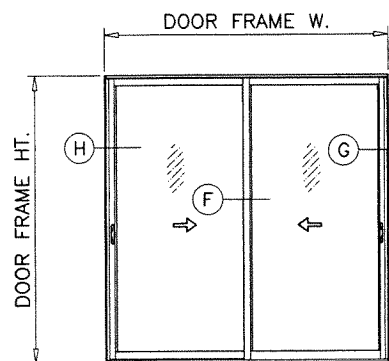
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 5.
3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.
4. FOR ALTERNATE SIZE UNITS MAX. OVERALL FRAME AREA OF 2 TRACK FRAMES NOT TO EXCEED 243.4 SQ. FT. PER FBC. PANELS WIDTH AND HEIGHT NOT TO EXCEED SIZES SHOWN IN CHART ON SHEET 5.



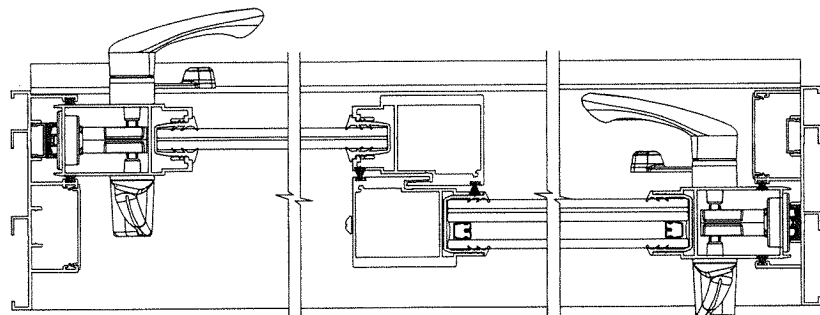
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XO



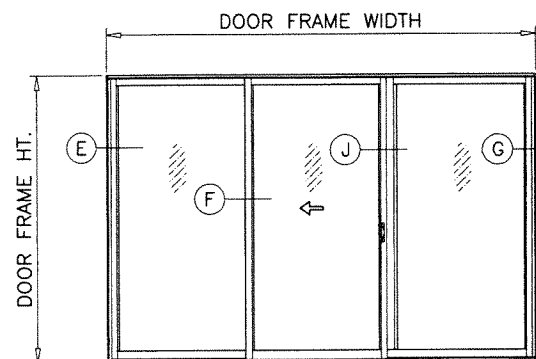
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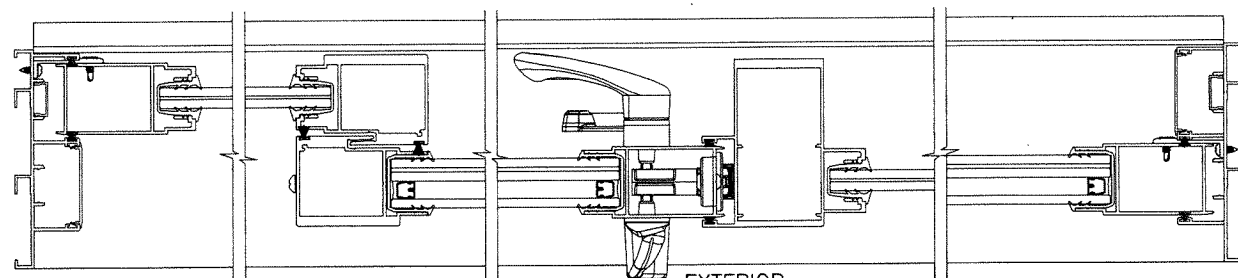
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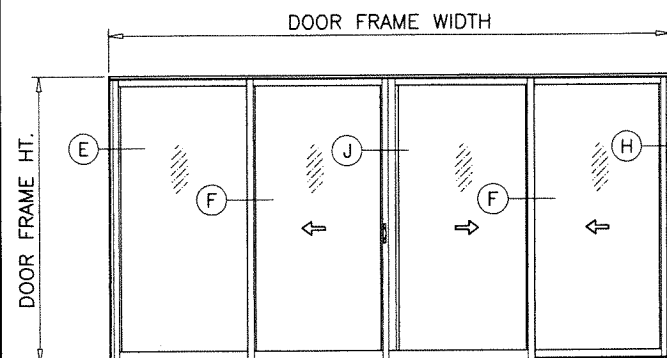
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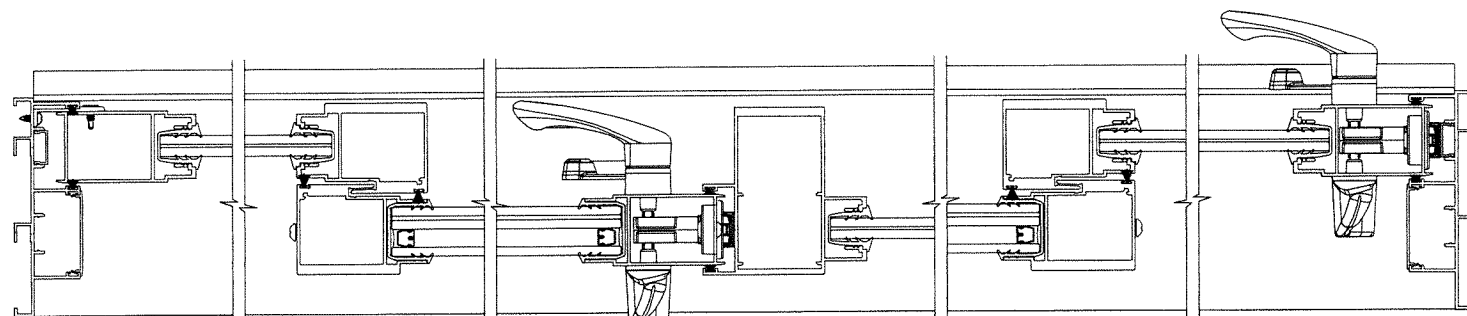
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O-XO



EXTERIOR

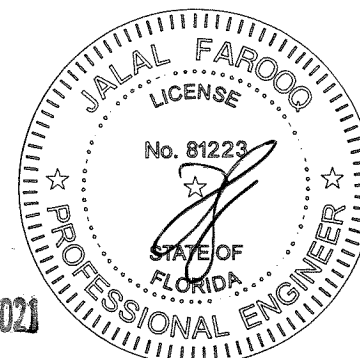


OX-XX (SHOWN)
XX-XO
OX-XO
XX-XX



EXTERIOR

APPROVED CONFIGURATIONS
NON-POCKETED DOORS
TWO (2) TRACKS



AUG 16 2021

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

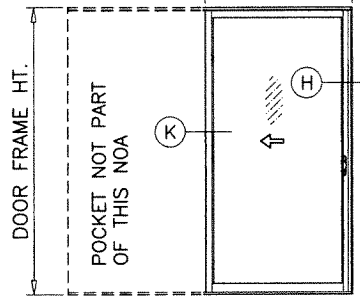
ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

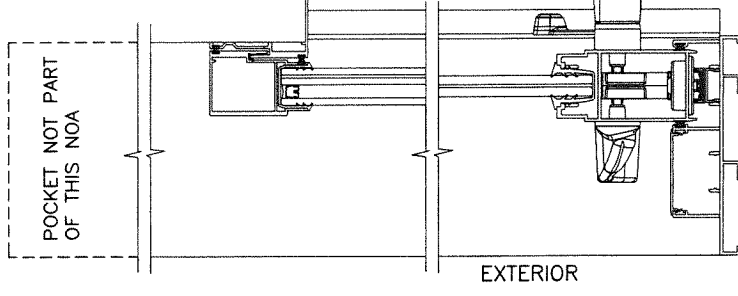
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	chk. by:	C	08.04.21	NO CHANGE THIS SHEET	
drawing no.		20-12D			
sheet 7 of 23					

COMP-ANL 20-12D-ES

DOOR FRAME W.



PX (SHOWN)
XP



PRODUCT RENEWED
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Building Code
NOA-No. 22-0118.05

Expiration Date 07/20/2027

By Ishag I. Chanda
Miami-Dade Product Control

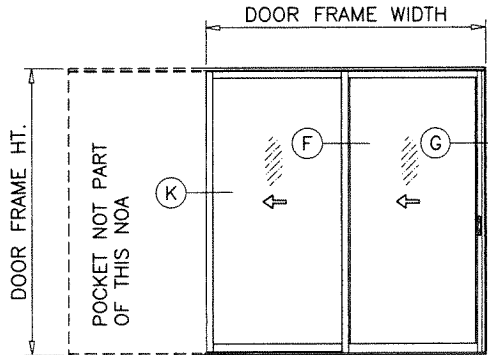
PRODUCT REVISED
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NOA-No. 21-0728.01

Expiration Date 07/20/2022

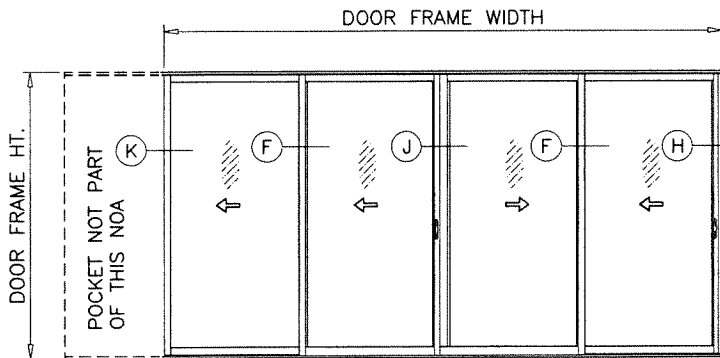
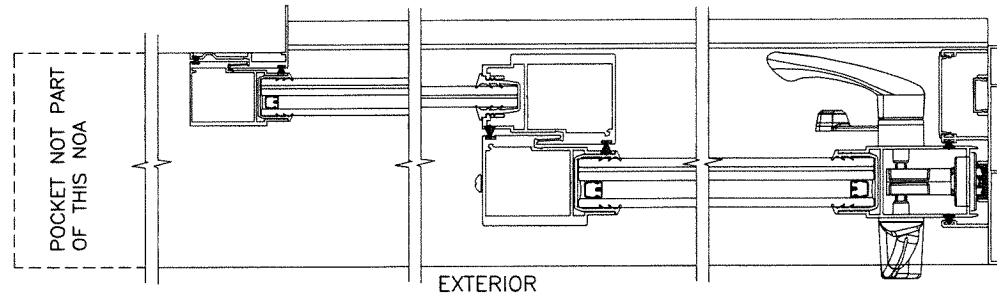
By Ishag I. Chanda
Miami-Dade Product Control

NOTE:

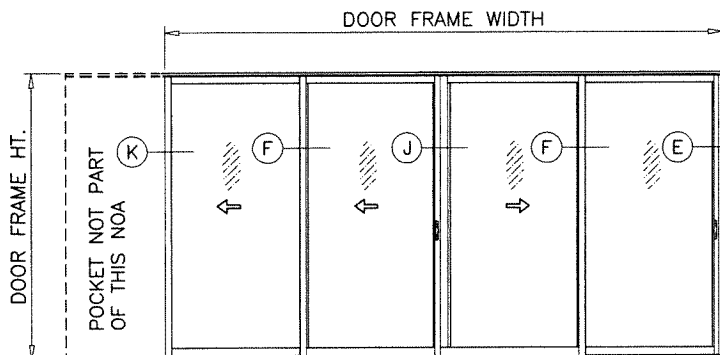
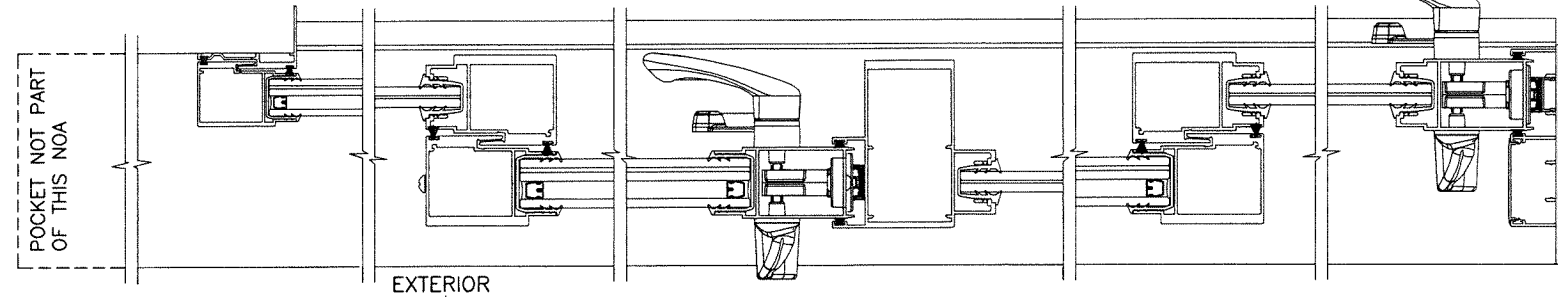
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 5.
3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.
4. FOR ALTERNATE SIZE UNITS MAX. OVERALL FRAME AREA OF 2 TRACK FRAMES NOT TO EXCEED 243.4 SQ. FT. PER FBC. PANELS WIDTH AND HEIGHT NOT TO EXCEED SIZES SHOWN IN CHART ON SHEET 5.
5. POCKETS NOT PART OF THIS APPROVAL. POCKET AREA IS NOT INCLUSIVE AS FRAME AREA.



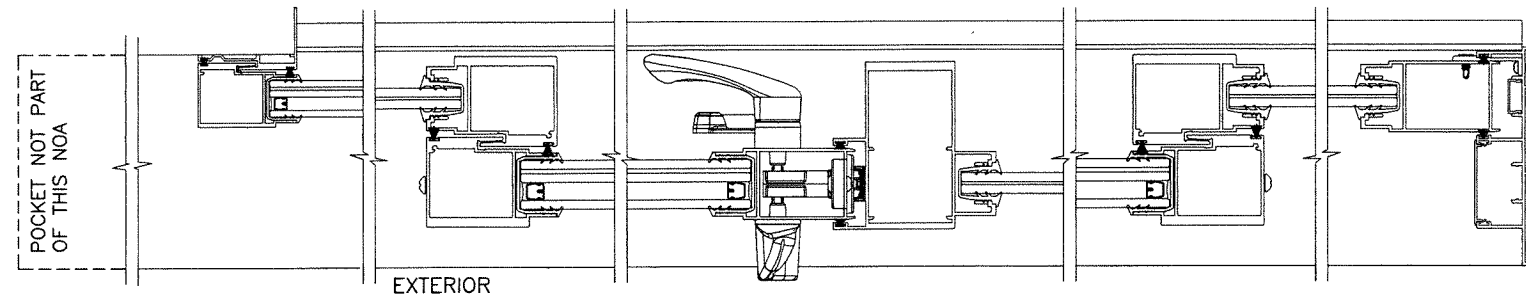
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XXP



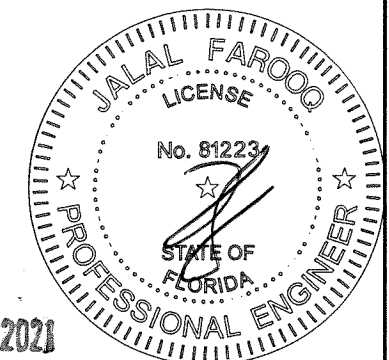
PXX-XX (SHOWN)
XX-XXP



PXX-XO (SHOWN)
OX-XXP



APPROVED CONFIGURATIONS
POCKETED DOORS
TWO (2) TRACKS



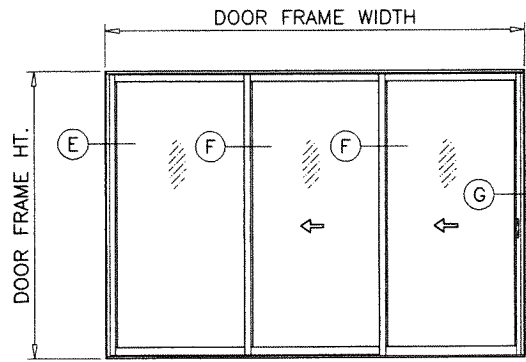
AUG 16 2021

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\20-12D-ES

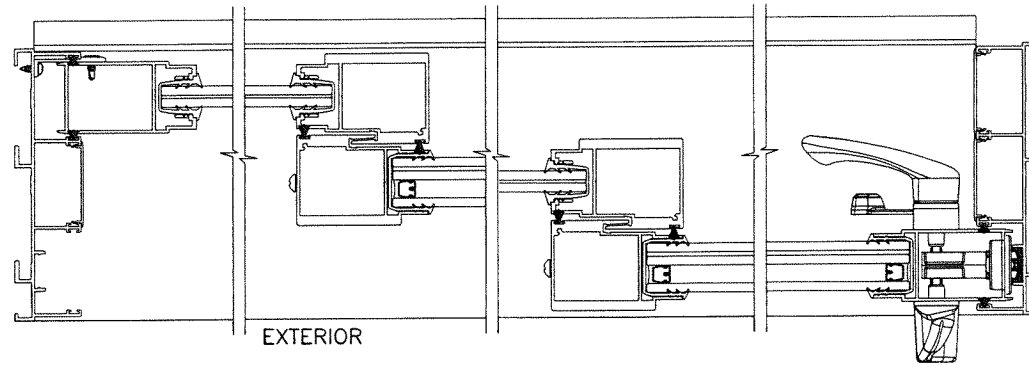
ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)

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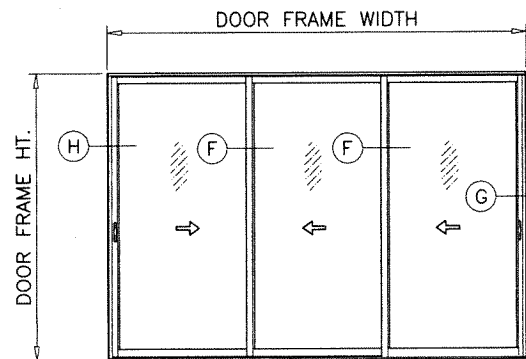
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chk. by:					
drawing no.	20-12D				
sheet	8 of 23				



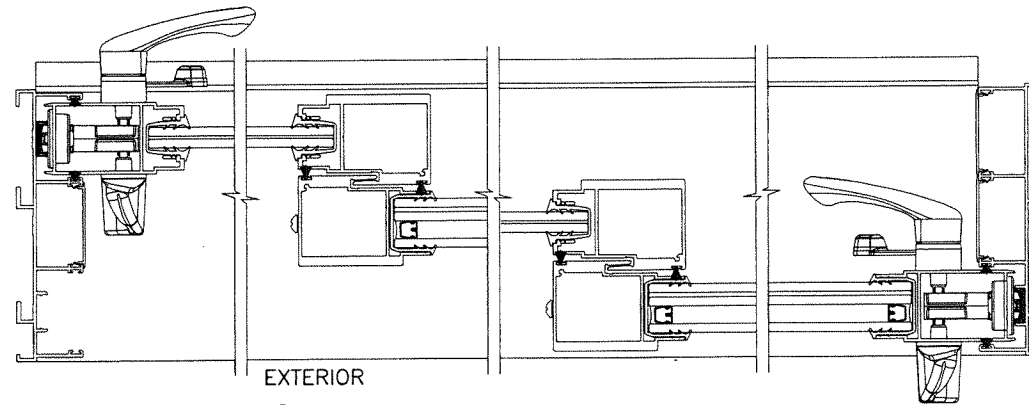
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XXO



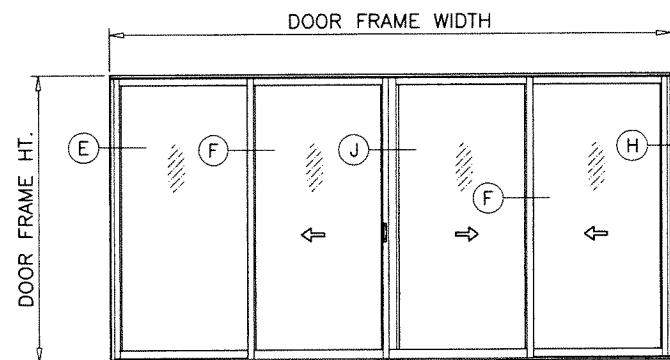
EXTERIOR



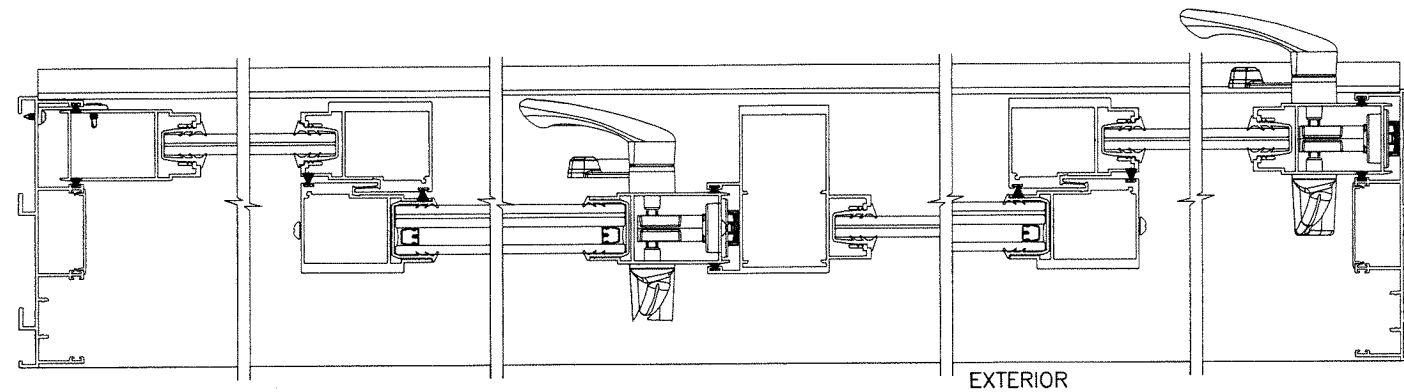
XXX (SHOWN)



EXTERIOR



OX-XX (SHOWN)
XX-XX
OX-XX
OX-XX
XX-XX



EXTERIOR

NOTE:

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3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.
4. FOR ALTERNATE SIZE UNITS MAX. OVERALL FRAME AREA OF 3 TRACK FRAMES NOT TO EXCEED 360.2 SQ. FT. PER FBC. PANELS WIDTH AND HEIGHT NOT TO EXCEED SIZES SHOWN IN CHART ON SHEET 5.

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 22-0118.05

Expiration Date 07/20/2027

By Ishag I. Chande
Miami-Dade Product Control

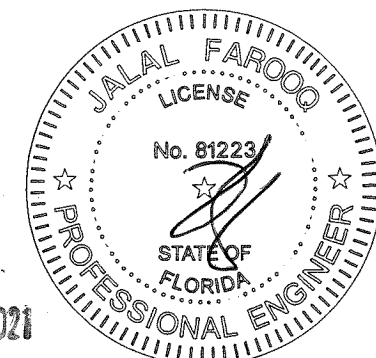
PRODUCT REVISED
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NOA-No. 21-0728.01

Expiration Date 07/20/2022

By Ishag I. Chande
Miami-Dade Product Control

APPROVED CONFIGURATIONS
NON-POCKETED DOORS
THREE (3) TRACKS

AUG 16 2021



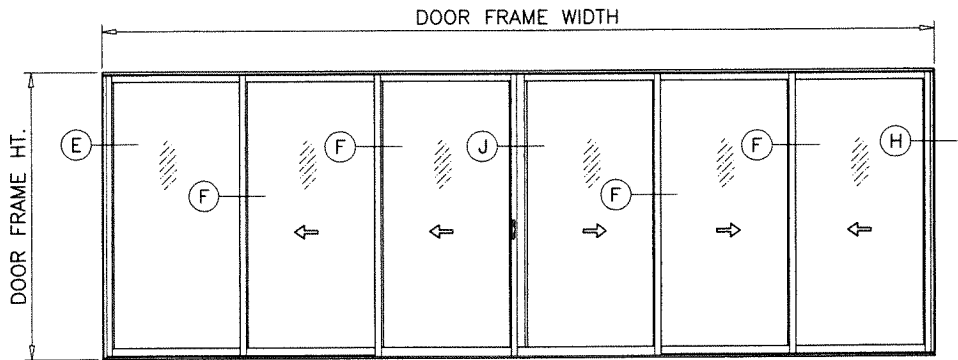
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

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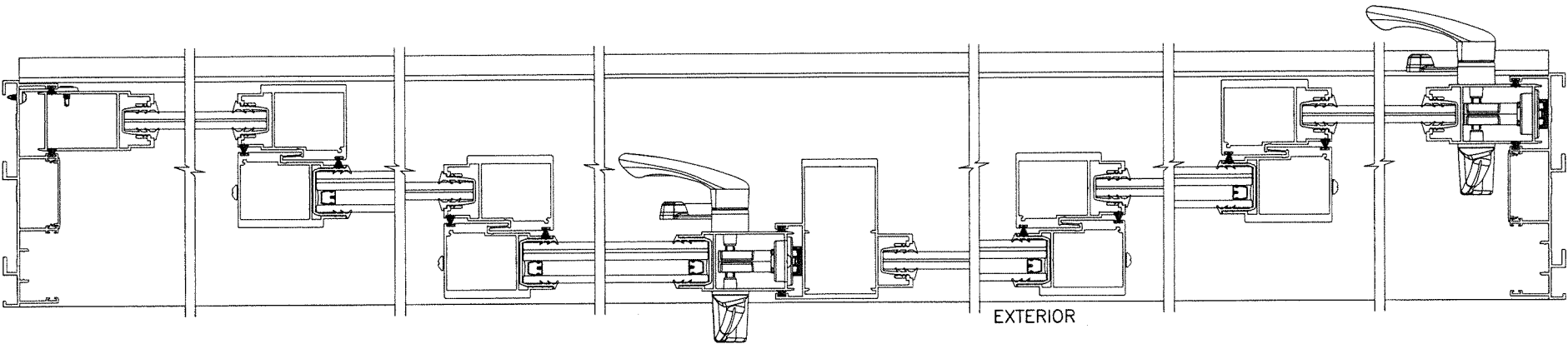
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no	date	by	description
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C	08.04.21		NO CHANGE THIS SHEET
scale: -		dr. by: TARIQ	
chk. by:		drawing no. 20-12D	
		sheet 9 of 23	

PRODUCT RENEWED
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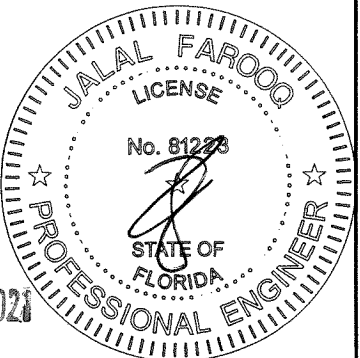
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Miami-Dade Product Control



XXX-XXX (SHOWN)
XXX-XXO
XXX-XXO
XXX-XXX



- NOTE:
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 3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.
 4. FOR ALTERNATE SIZE UNITS MAX. OVERALL FRAME AREA OF 3 TRACK FRAMES NOT TO EXCEED 360.2 SQ. FT. PER FBC. PANELS WIDTH AND HEIGHT NOT TO EXCEED SIZES SHOWN IN CHART ON SHEET 5.



APPROVED CONFIGURATIONS
NON-POCKETED DOORS
THREE (3) TRACKS

AUG 16 2021

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
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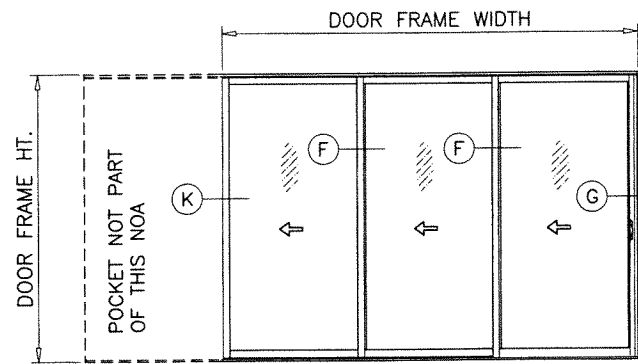
ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		no		date		by		description	
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B	06.23.21							NO CHANGE THIS SHEET	
C	08.04.21							NO CHANGE THIS SHEET	

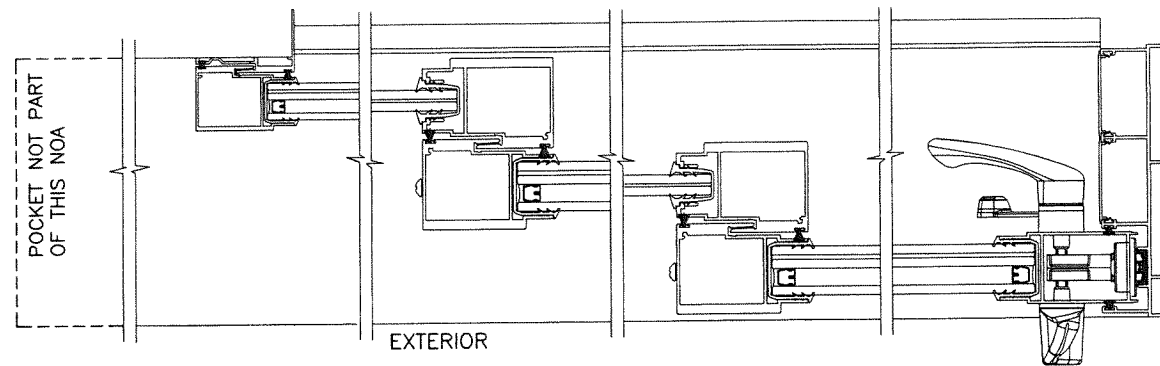
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dr. by: TARIQ
chk. by:

drawing no.
20-12D

sheet **9.1** of **23**



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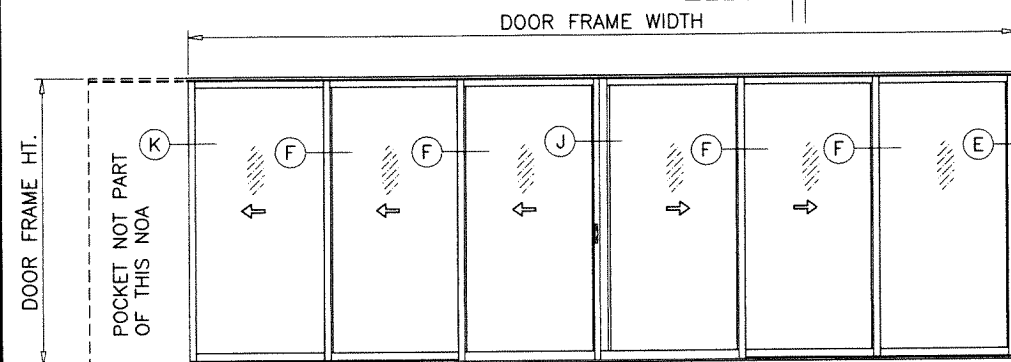


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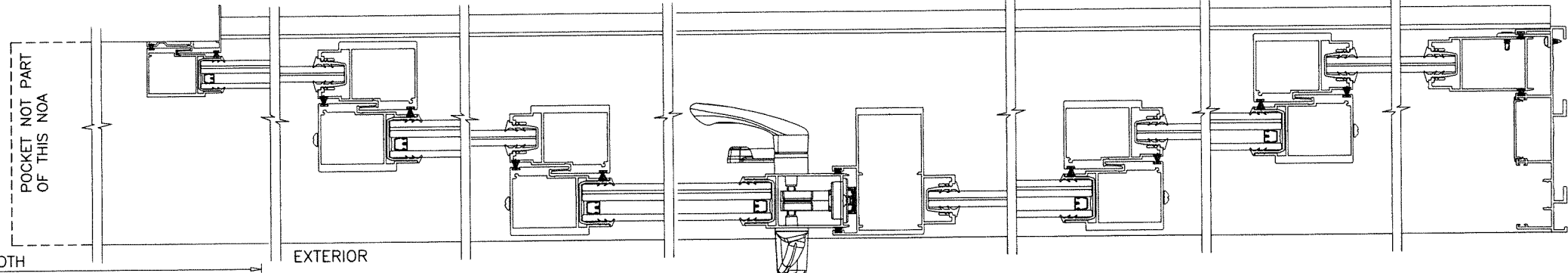
PRODUCT REVISED
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Building Code
NOA-No. 21-0728.01

Expiration Date 07/20/2022

By Ishaq I. Chande
Miami-Dade Product Control



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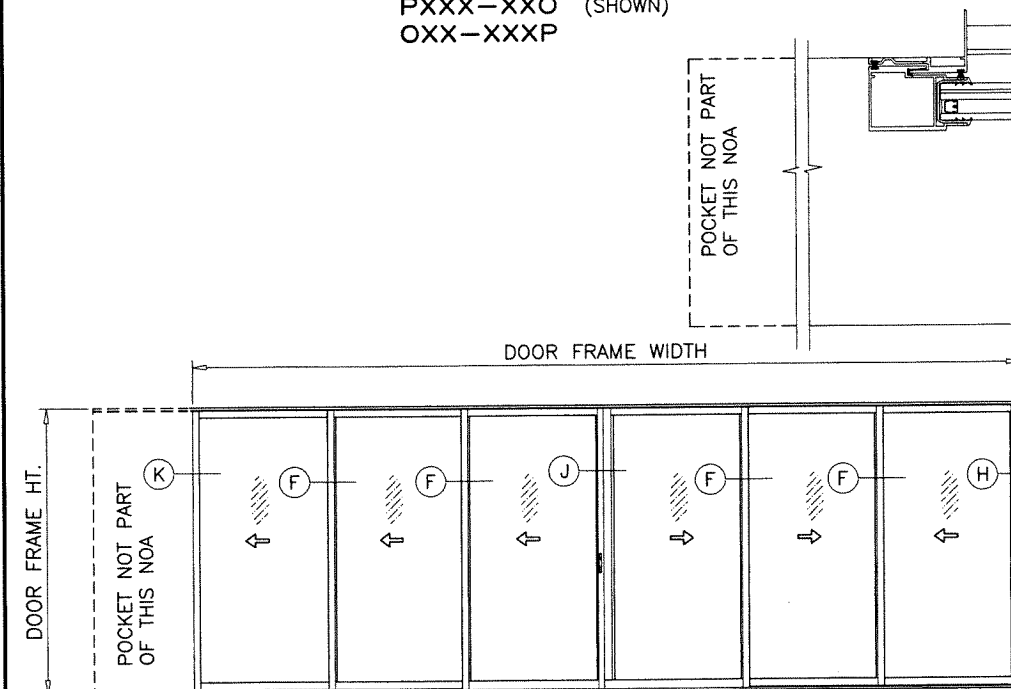


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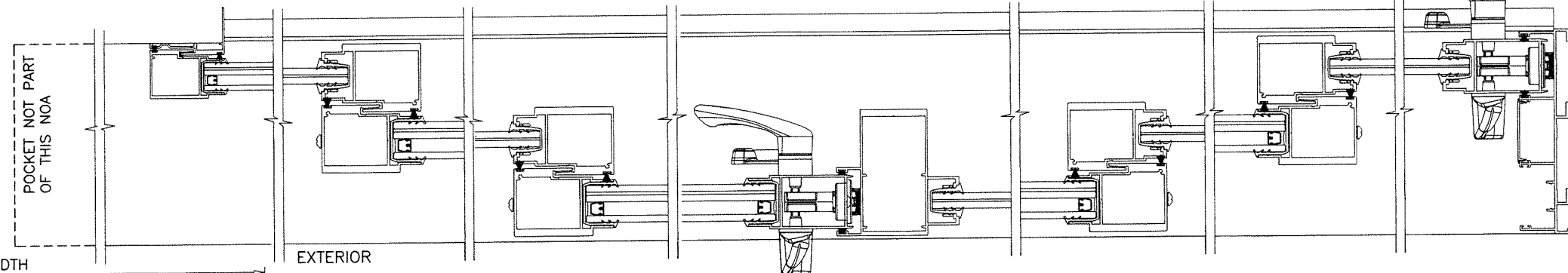
PRODUCT RENEWED
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Building Code
NOA-No. 22-0118.05

Expiration Date 07/20/2027

By Ishaq I. Chande
Miami-Dade Product Control



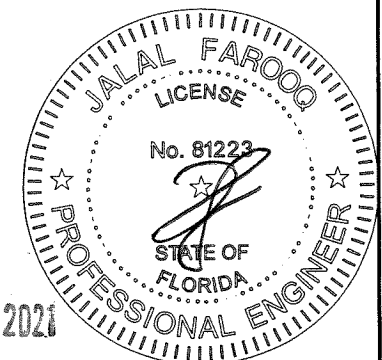
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PXXX-XXXX



EXTERIOR

NOTE:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 5.
3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.
4. FOR ALTERNATE SIZE UNITS MAX. OVERALL FRAME AREA OF 3 TRACK FRAMES NOT TO EXCEED 360.2 SQ. FT. PER FBC. PANELS WIDTH AND HEIGHT NOT TO EXCEED SIZES SHOWN IN CHART ON SHEET 5.
5. POCKETS NOT PART OF THIS APPROVAL. POCKET AREA IS NOT INCLUSIVE AS FRAME AREA.



APPROVED CONFIGURATIONS
POCKETED DOORS
THREE (3) TRACKS

AUG 16 2021

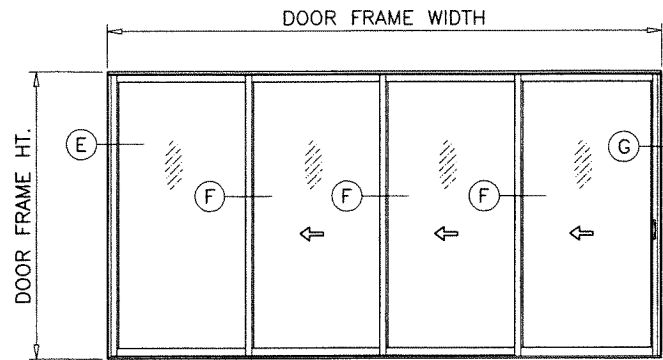
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)

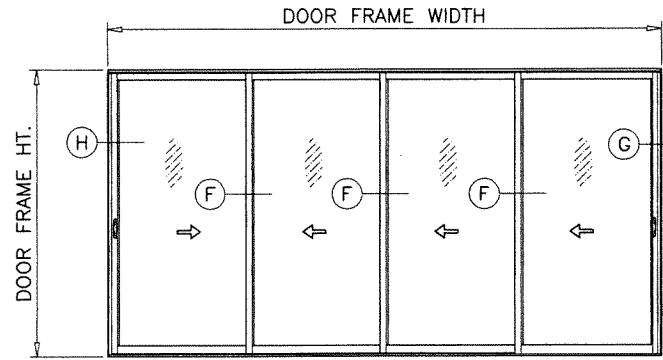
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
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Revisions:			
no	date	by	description
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C	08.04.21	NO CHANGE	THIS SHEET
drawing no. 20-12D			
sheet 10 of 23			

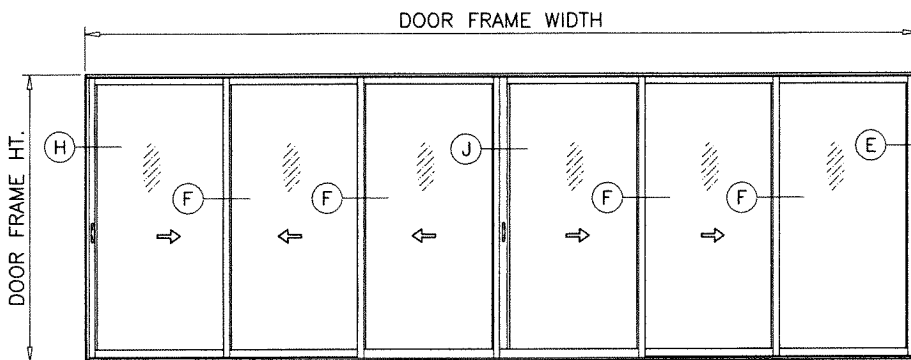
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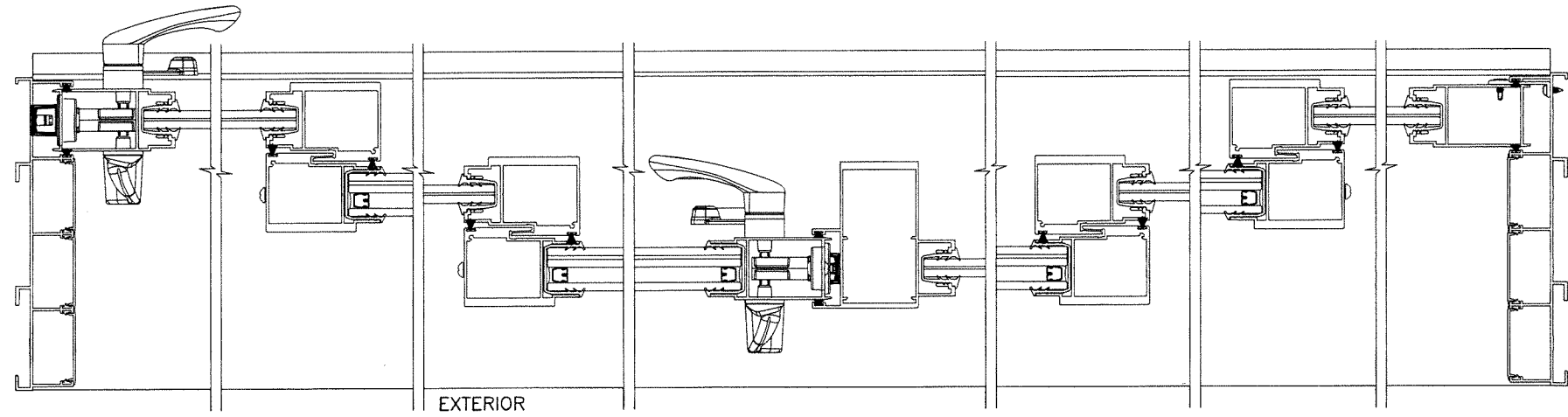
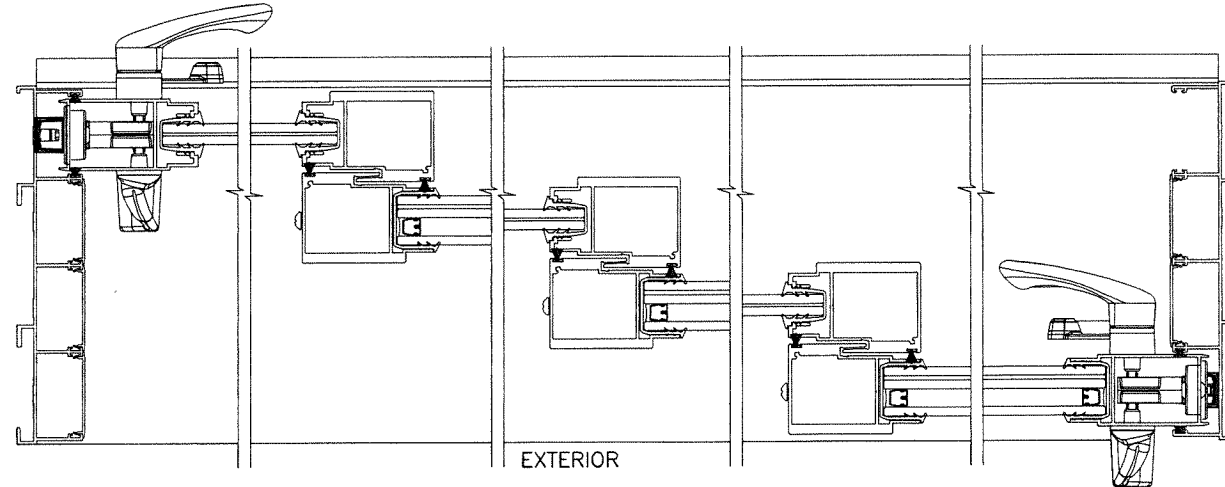
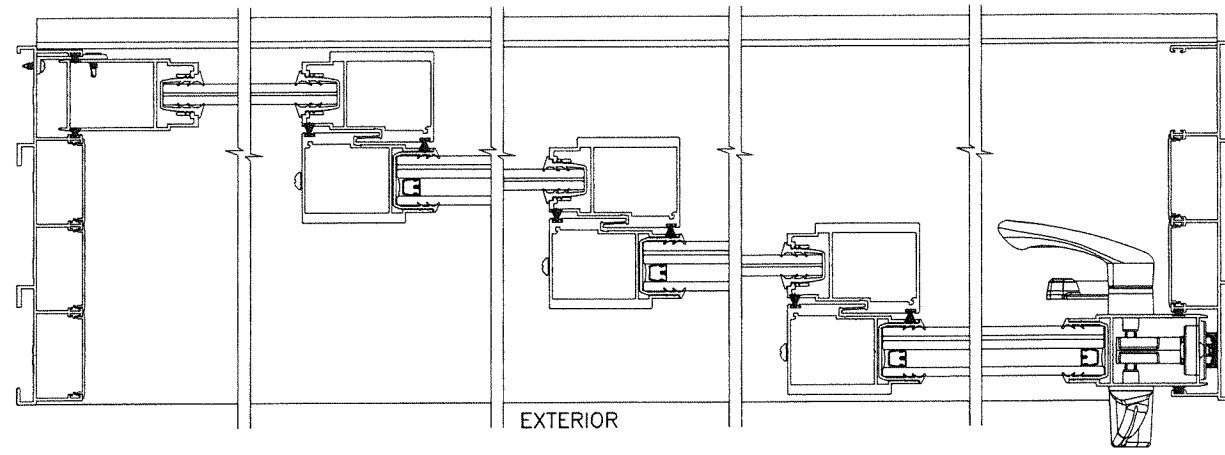
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XXXX (SHOWN)



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OXX-XXX
OXX-XXO
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NOTE:

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PRODUCT RENEWED
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Building Code
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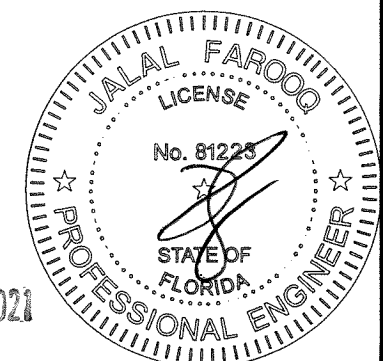
Expiration Date 07/20/2027

By Ishaq I. Chandra
Miami-Dade Product Control

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NOA-No. 21-0728.01

Expiration Date 07/20/2022

By Ishaq I. Chandra
Miami-Dade Product Control



APPROVED CONFIGURATIONS
NON-POCKETED DOORS
FOUR (4) TRACKS

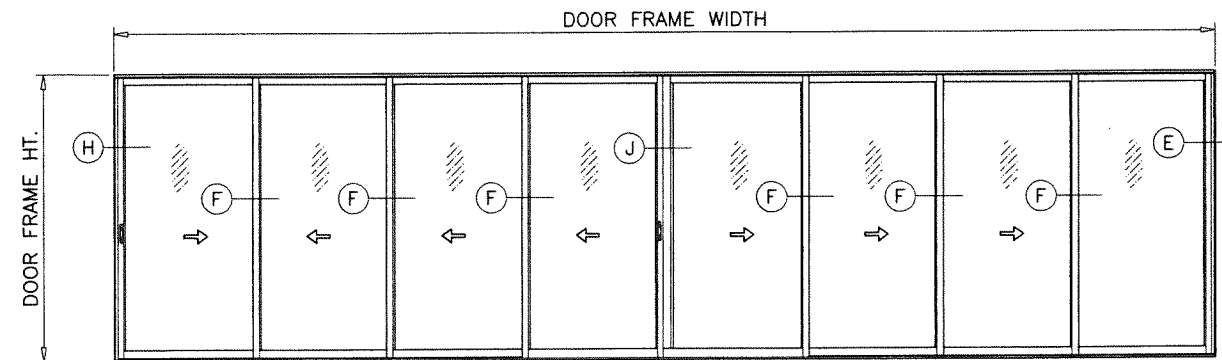
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MIAMI, FLORIDA 33173
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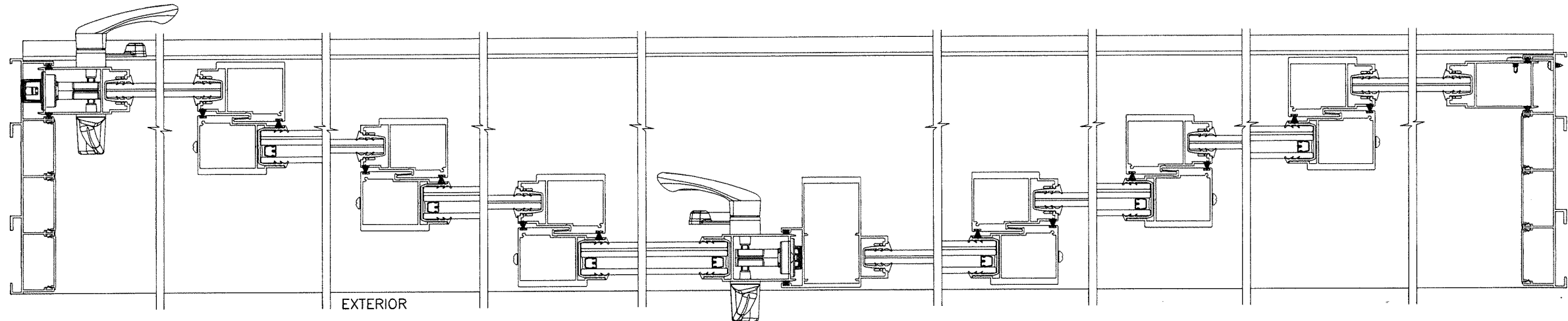
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date: 02-14-20	scale: -	dr. by: TARIQ	chk. by:
drawing no. 20-12D			
sheet 11 of 23			



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 OXXX-XXXX
 XXXX-XXXX

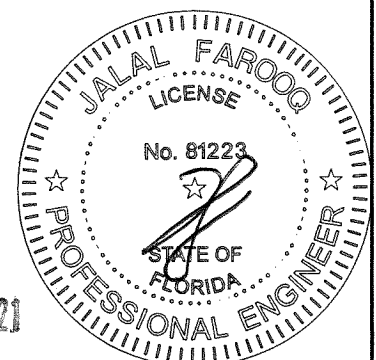


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 as complying with the Florida
 Building Code
 NOA-No. 22-0118.05
 Expiration Date 07/20/2027
 By Ishaq I. Chande
 Miami-Dade Product Control

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 NOA-No. 21-0728.01
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 By Ishaq I. Chande
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APPROVED CONFIGURATIONS
 NON-POCKETED DOORS
 FOUR (4) TRACKS



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COMP-ANL\20-12D-ES

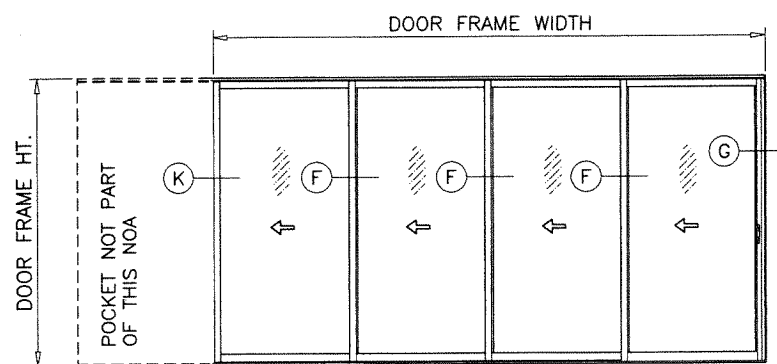
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 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

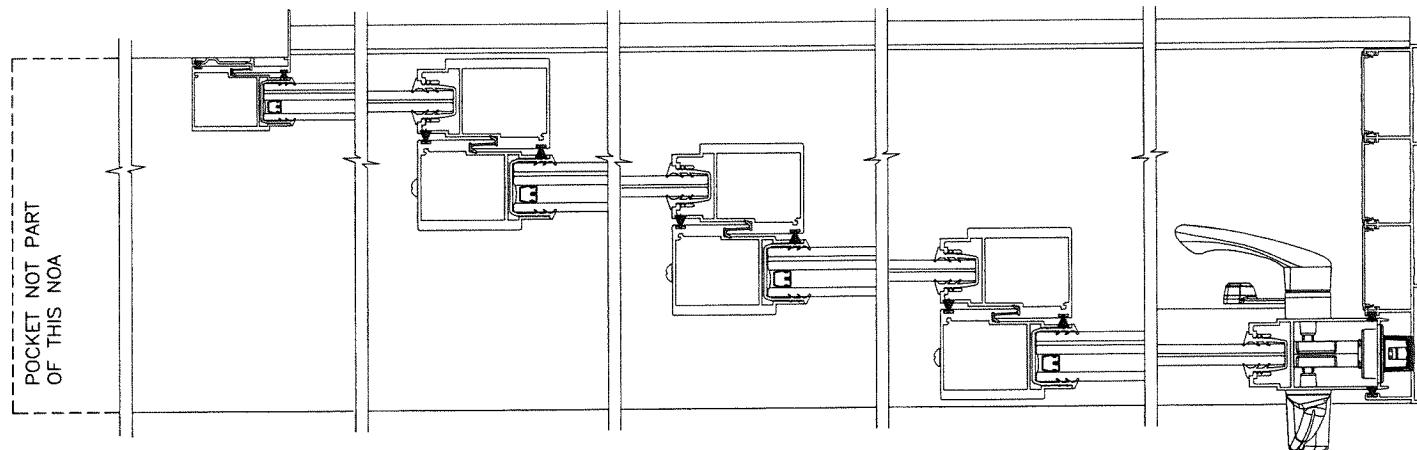
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 scale: -
 dr. by: TARIQ
 chk. by:

drawing no.
20-12D
 sheet 11.1 of 23



PXXXX (SHOWN)
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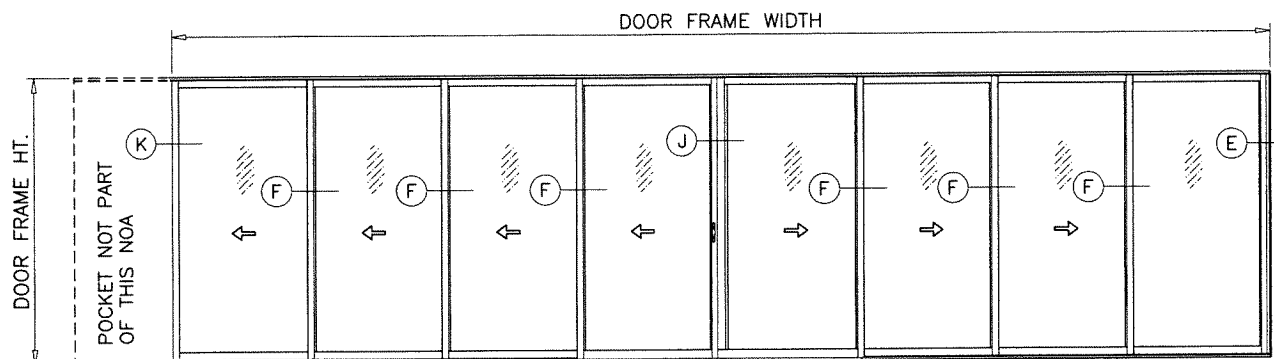
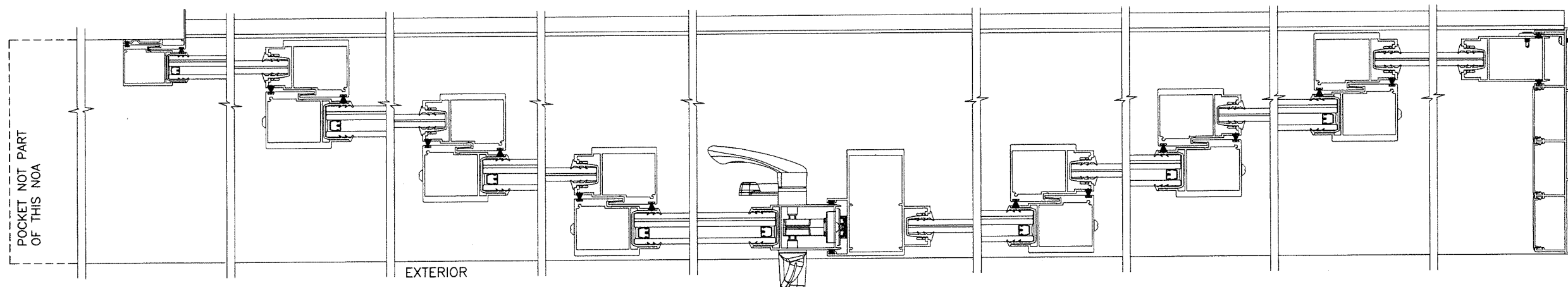
PRODUCT REVISED
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NOA-No. 21-0728.01

Expiration Date 07/20/2022

By Ishag I. Chande
Miami-Dade Product Control

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PXXXX-XXXX (SHOWN)
OXXX-XXXXP

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APPROVED CONFIGURATIONS
POCKETED DOORS
FOUR (4) TRACKS

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MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 20-12D-ES

ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)

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revisions:		description	
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C	08.04.21	NO CHANGE THIS SHEET	
date: 02-14-20		scale: -	
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drawing no.		20-12D	
sheet 12 of 23			

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0728.01

Expiration Date 07/20/2022

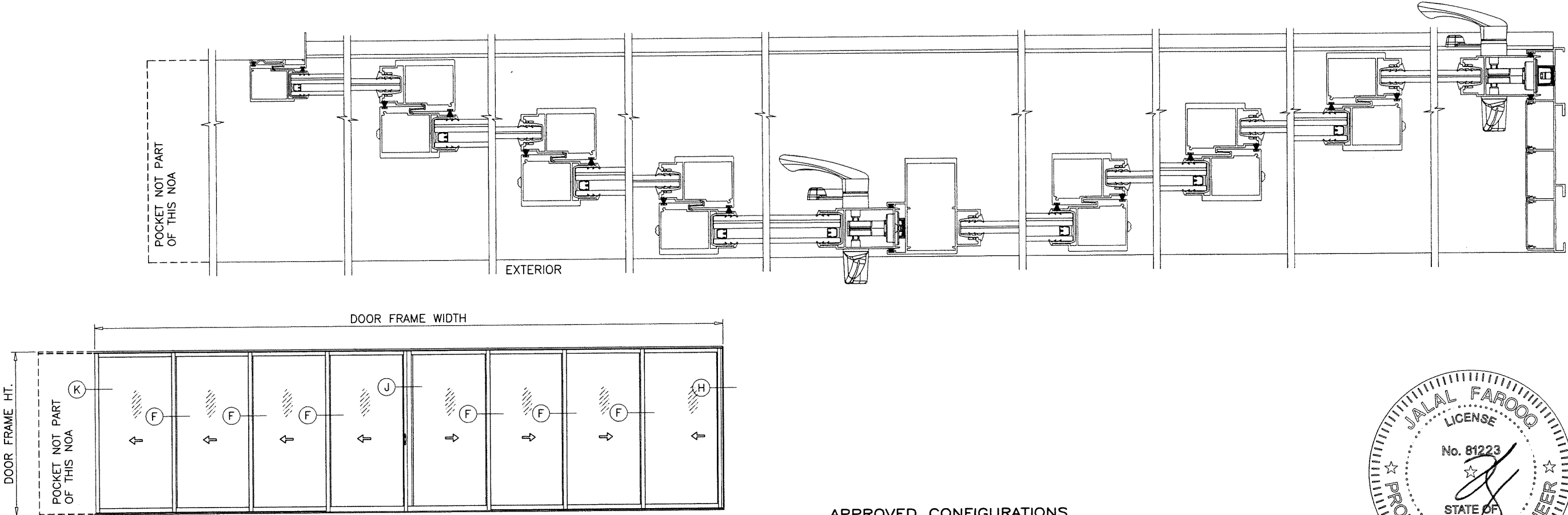
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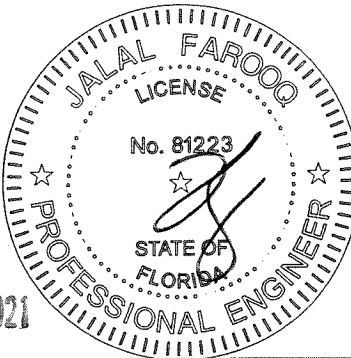
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XXXX-XXXXP
PXXXX-XXXXP

APPROVED CONFIGURATIONS
POCKETED DOORS
FOUR (4) TRACKS



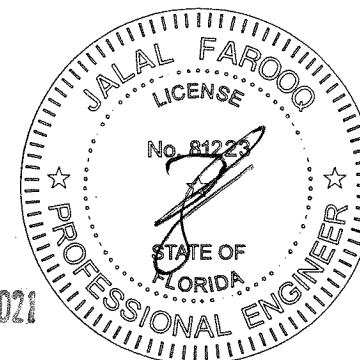
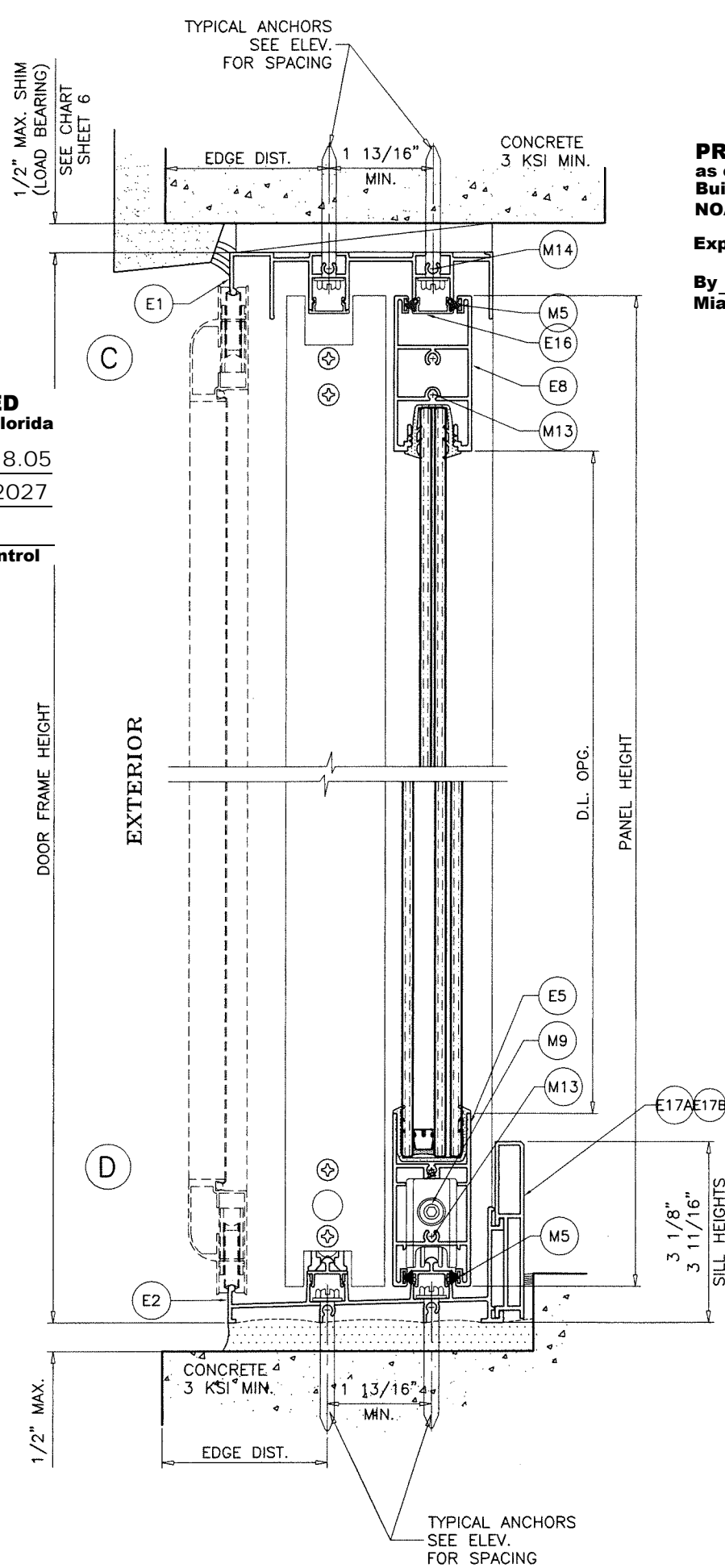
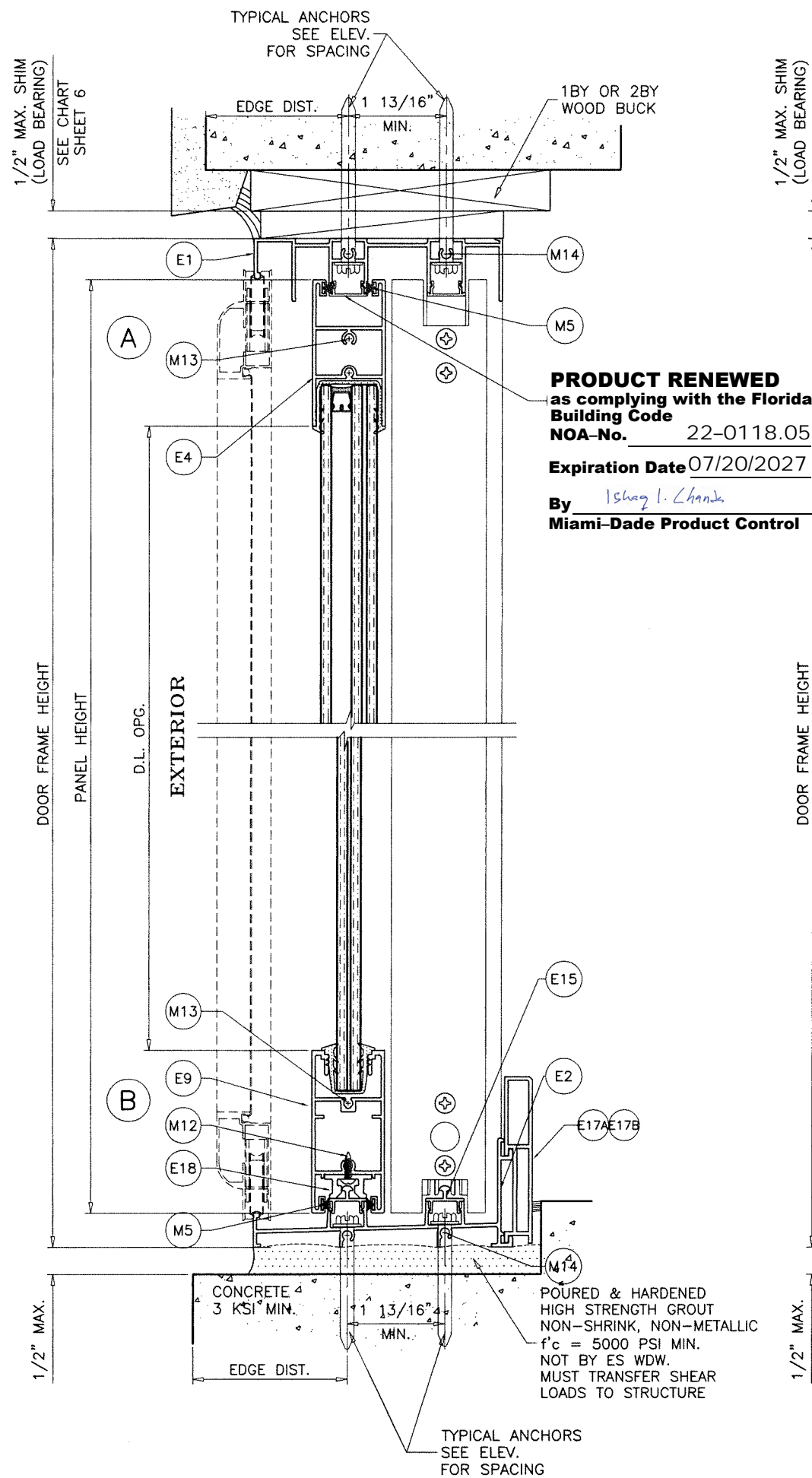
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

date: 02-14-20		revisions:			
drawing no.		no	date	by	description
20-12D	sheet 13 of 23	A	09.02.20		REV. PER RER COMMENTS
		B	06.23.21		NO CHANGE THIS SHEET
		C	08.04.21		NO CHANGE THIS SHEET
dr. by: TARIQ					
chk. by:					

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		A	09.02.20		NO CHANGE THIS SHEET
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		C	08.04.21		SILL RISER OPTIONS ADDED

date: 02-14-20
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
20-12D
sheet 14 of 23

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

AT HEAD

TYPE 'A'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO WOOD STRUCTURES
2" MIN. PENETRATION INTO WOOD
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE, 1-1/2" MIN. EDGE DIST.

TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
2" MIN. EMBED INTO CONCRETE, 1-1/2" MIN. EDGE DIST.

TYPE 'C'— 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

AT SILL

TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

AT JAMBS

TYPE 'A'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO WOOD STRUCTURES
2" MIN. PENETRATION INTO WOOD
THRU 1BY OR 2BY WOOD BUCKS INTO CONC. OR FILLED BLOCK
1-3/4" MIN. EMBED INTO CONCRETE
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS

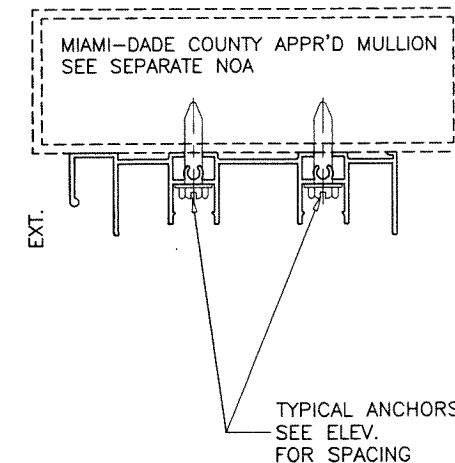
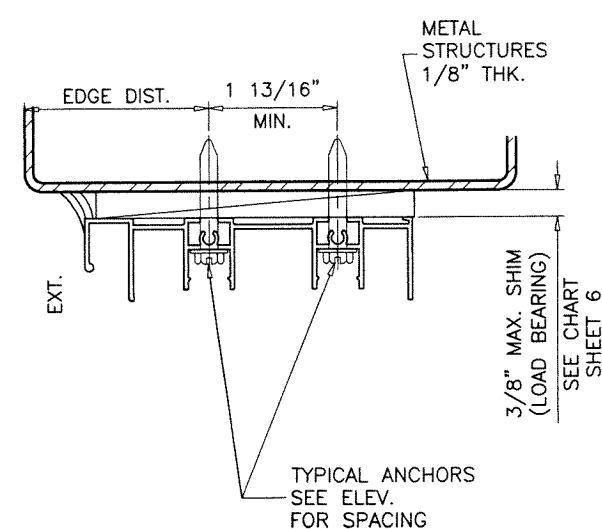
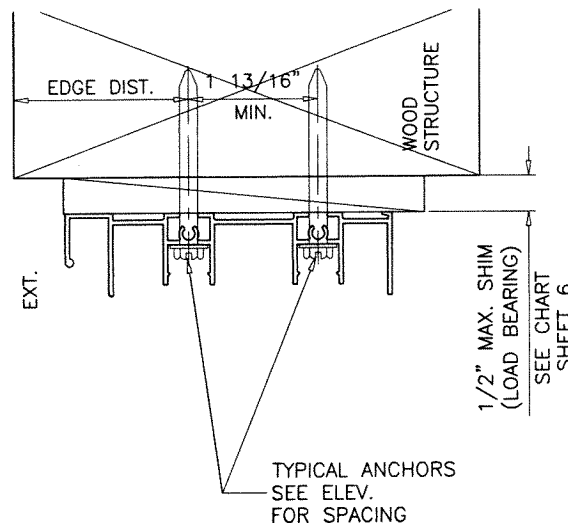
TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCKS
2" MIN. EMBED INTO CONCRETE
2" MIN. EMBED INTO GROUT FILLED BLOCKS

TYPE 'C'— 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 2-1/2" MIN. (UNLESS SPECIFIED OTHERWISE)
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



PRODUCT REVISED
as complying with the Florida
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By Ishag I. Chank
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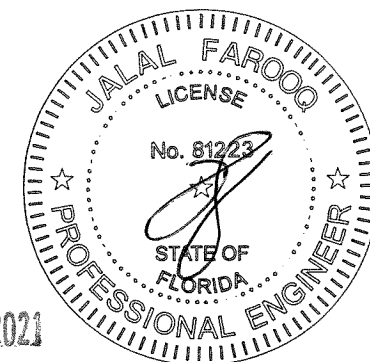
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Miami-Dade Product Control

1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY E.S. WDW.
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.



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af c

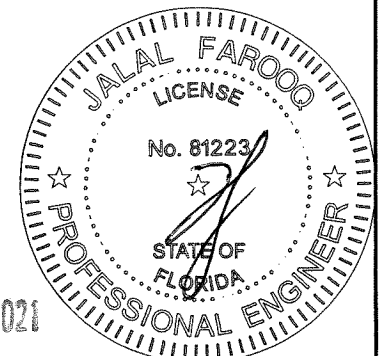
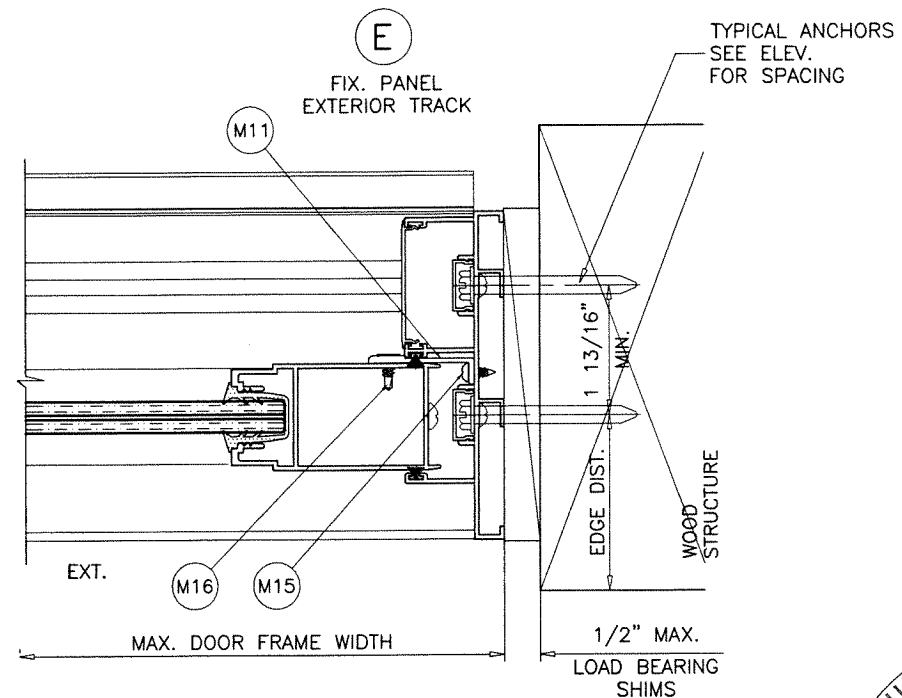
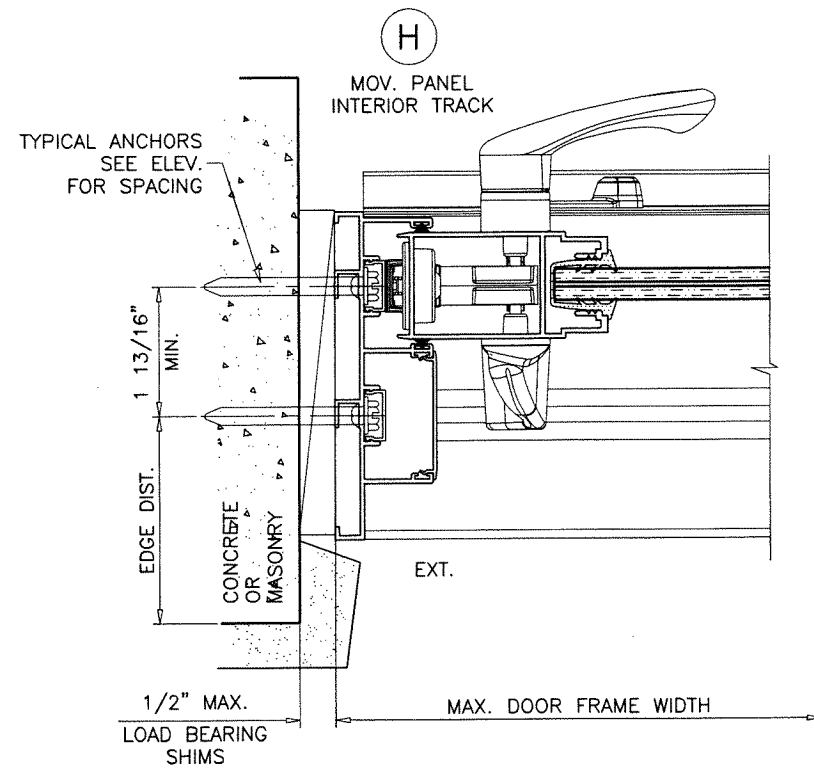
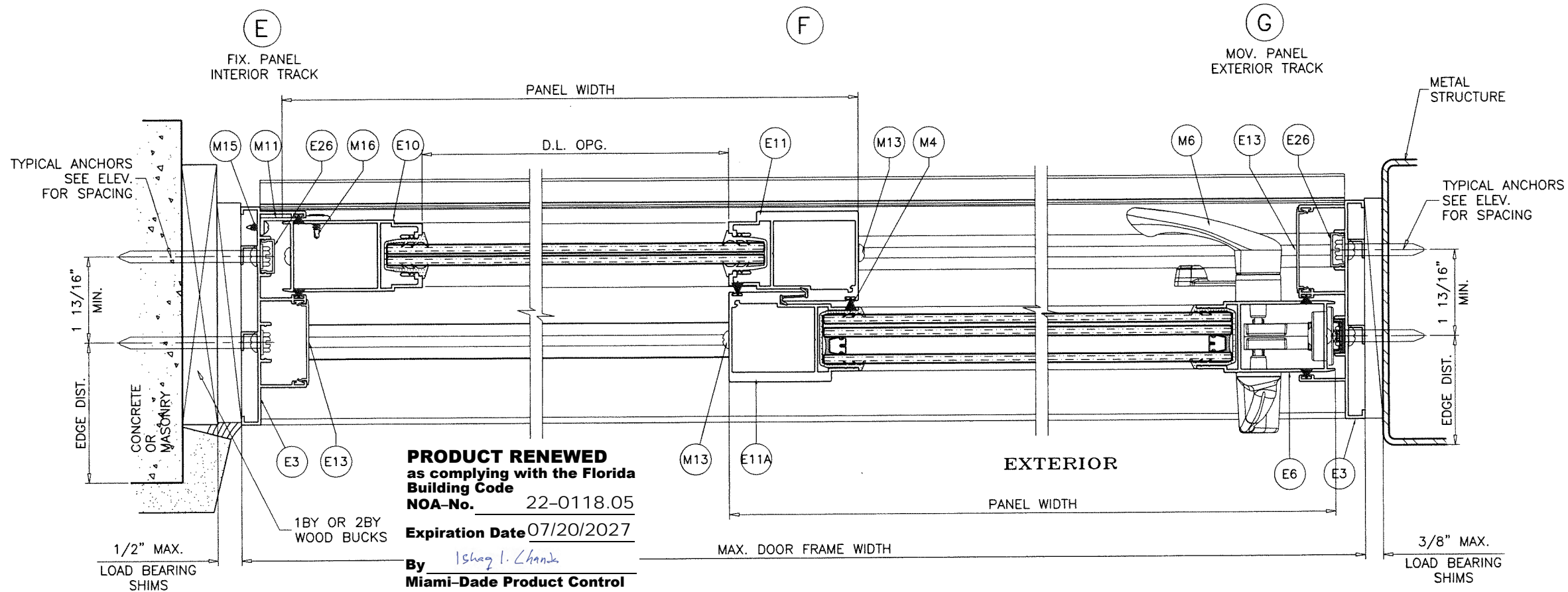
AL-FAROOQ CORPORATION
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date: 02-14-20		scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
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sheet 15 of 23				

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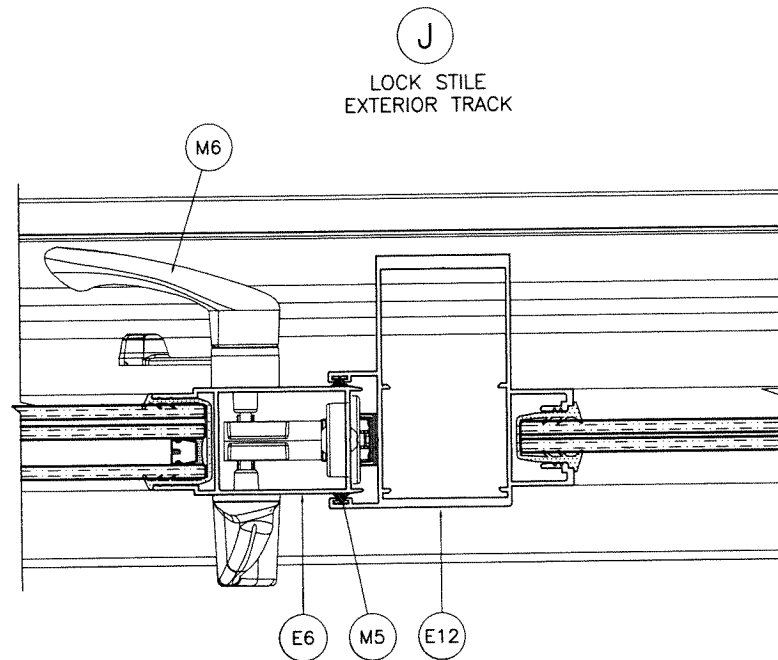


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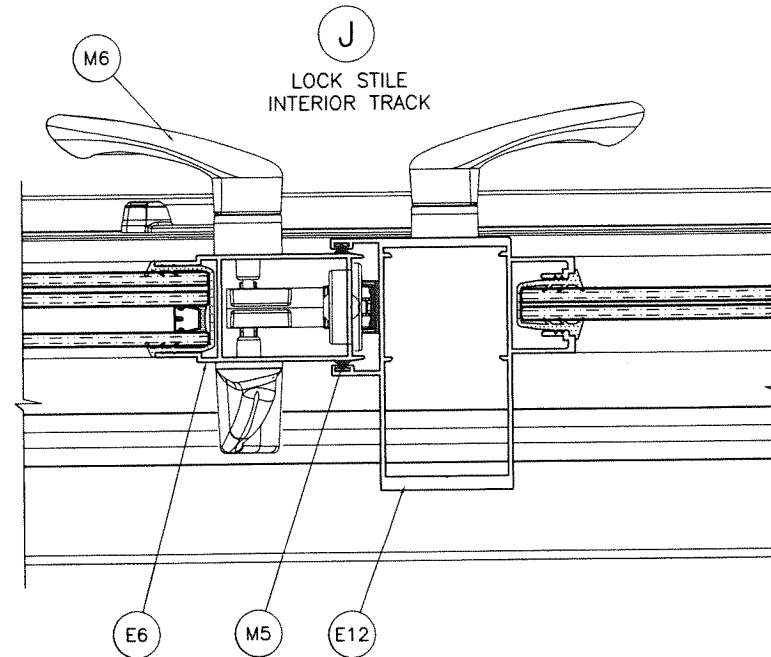
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E.S. WINDOWS, LLC
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MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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date: 02-14-20	A	09.02.20	NO	CHANGE THIS SHEET	
	B	06.23.21	NO	CHANGE THIS SHEET	
	C	08.04.21	NO	CHANGE THIS SHEET	
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dr. by: TARIQ					
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drawing no.					
20-12D					
sheet 16 of 23					



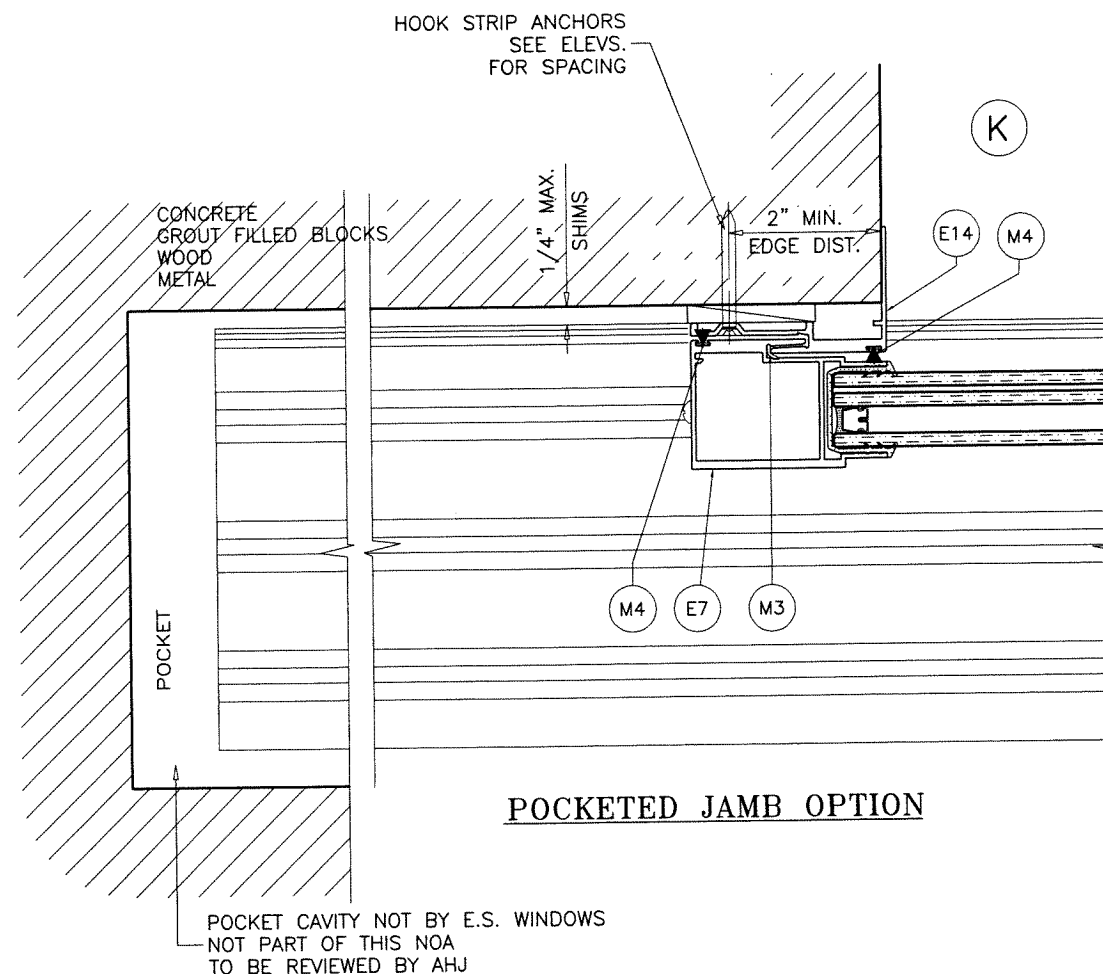
LOCK STILE
EXTERIOR TRACK



LOCK STILE
INTERIOR TRACK

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 22-0118.05
Expiration Date 07/20/2027
By Ishag I. Chande
Miami-Dade Product Control

PRODUCT REVISED
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NOA-No. 21-0728.01
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Miami-Dade Product Control



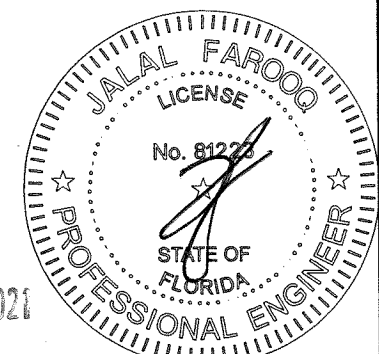
POCKETED JAMB OPTION

HOOK STRIP ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS

#14 SMS (GRADE 2 CRS)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 5/32" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

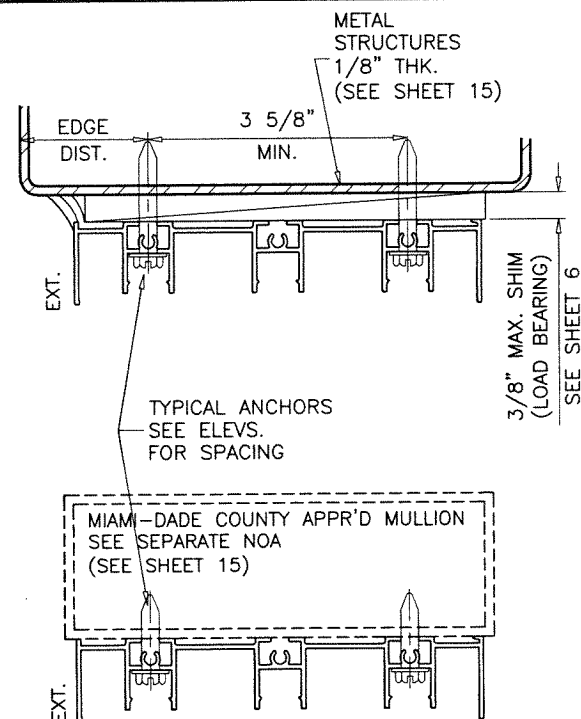
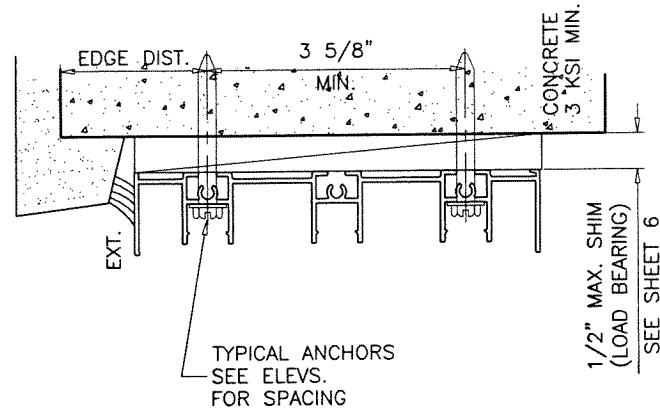
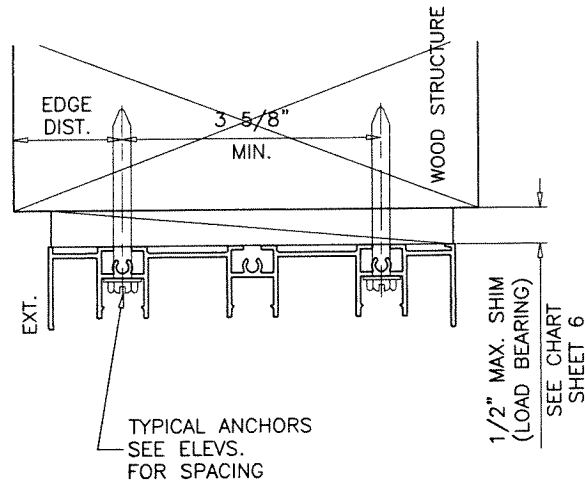
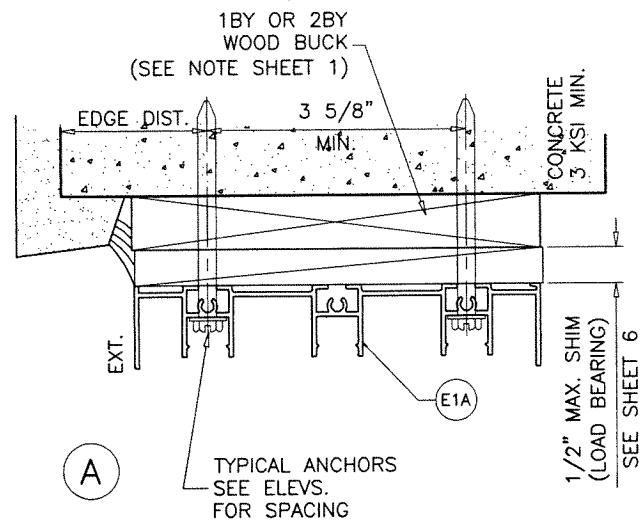


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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 20-12D-ES

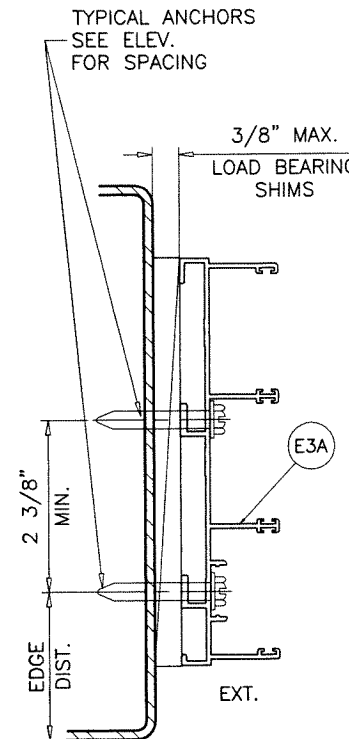
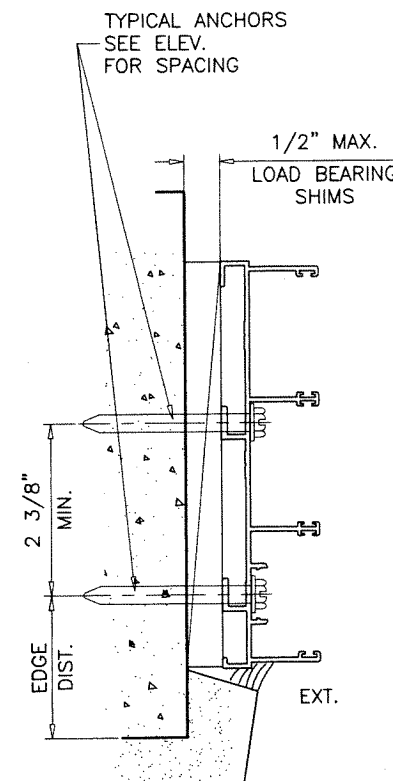
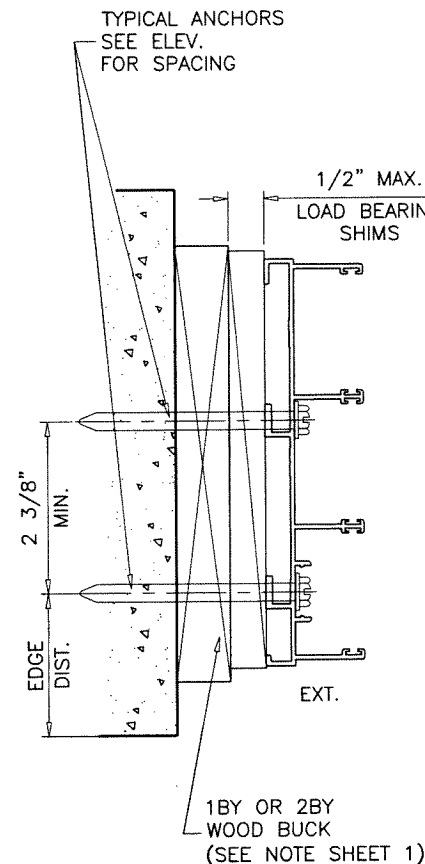
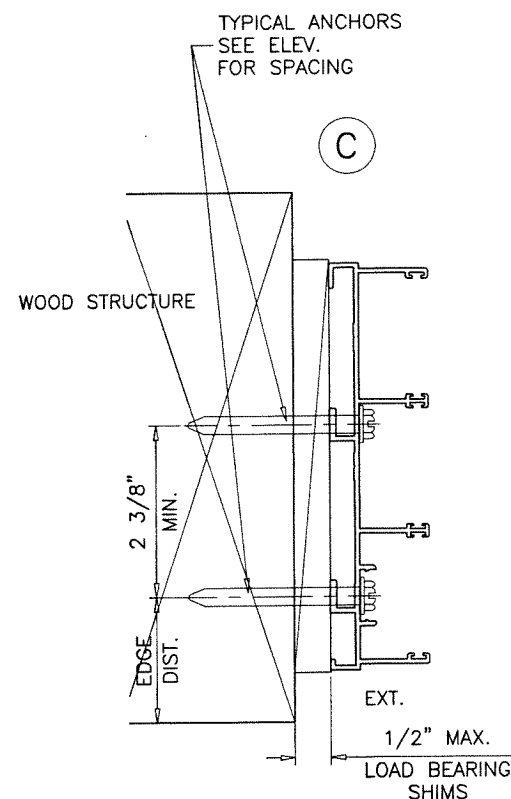
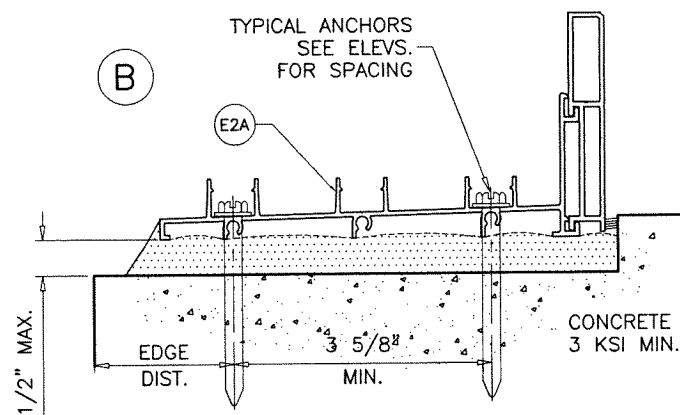
ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)
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chk. by:		drawing no.	20-12D	sheet 17 of 23	

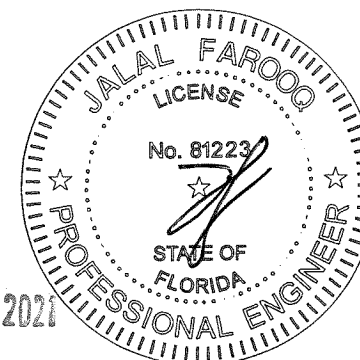


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3 TRACK FRAMES
ANCHOR LOCATIONS



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9360 SUNSET DRIVE, SUITE 220
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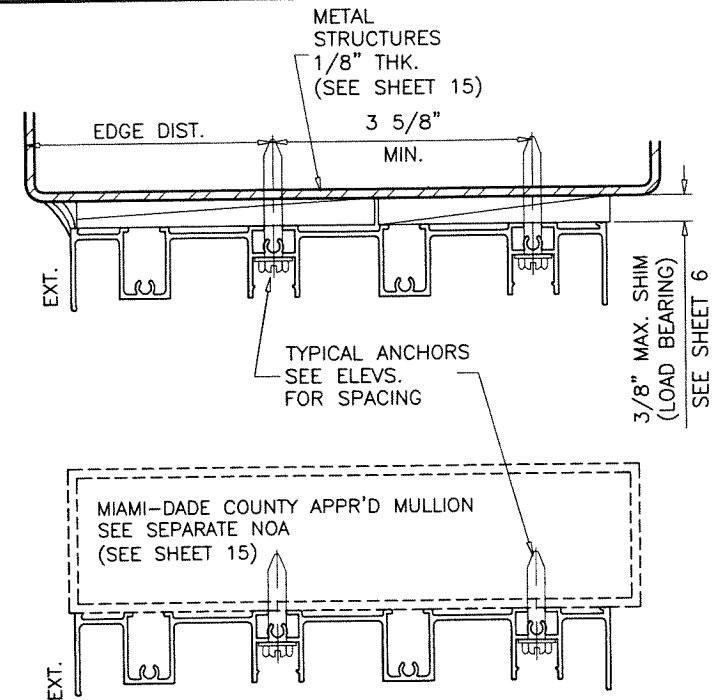
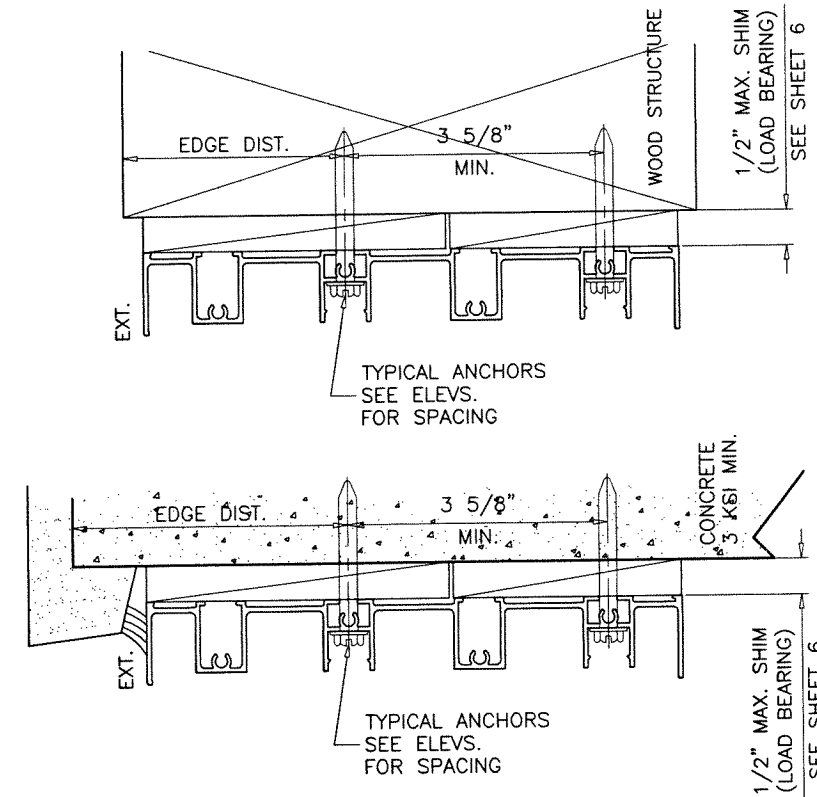
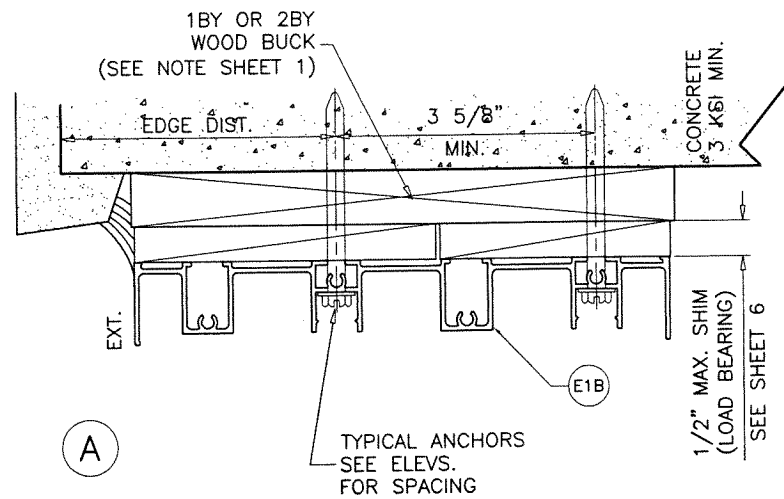
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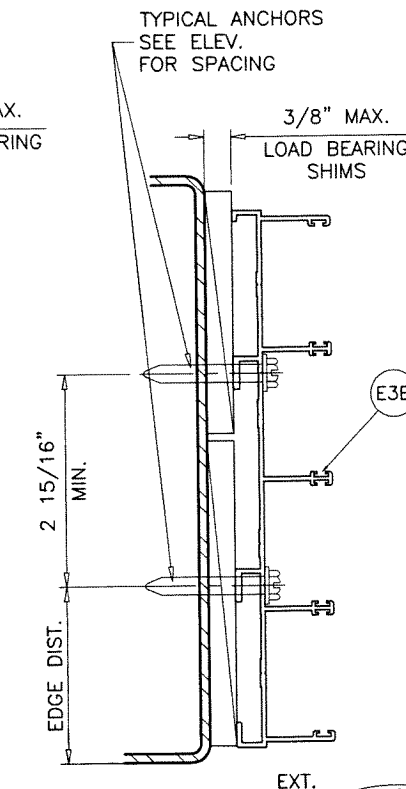
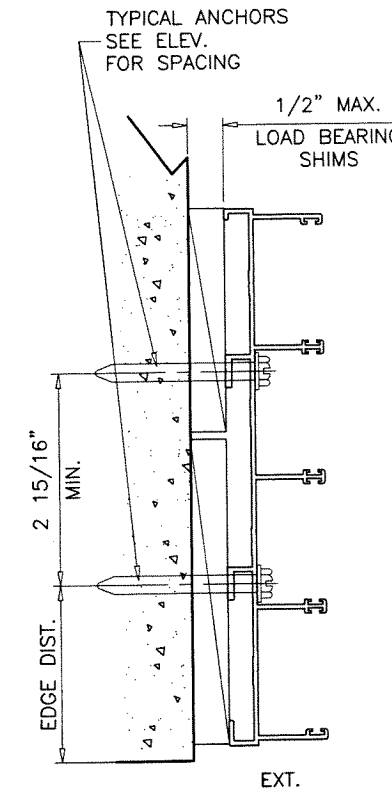
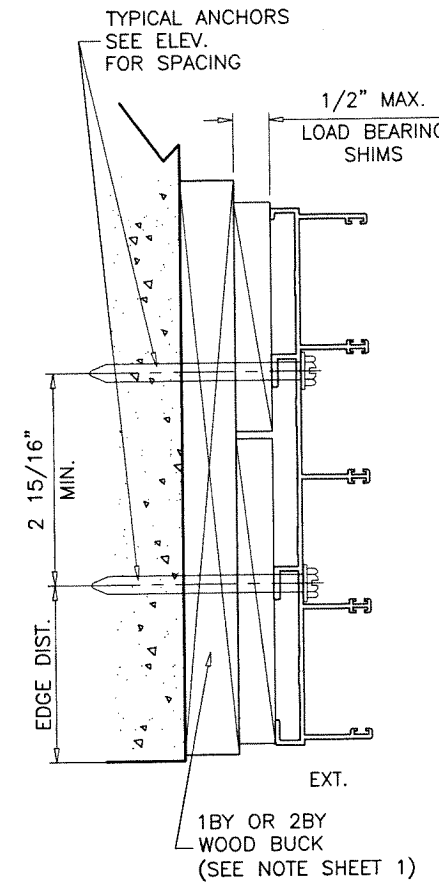
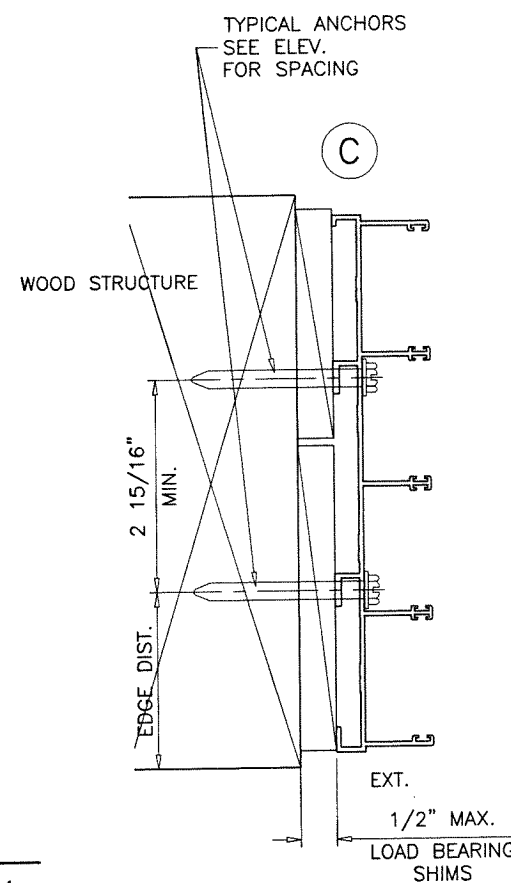
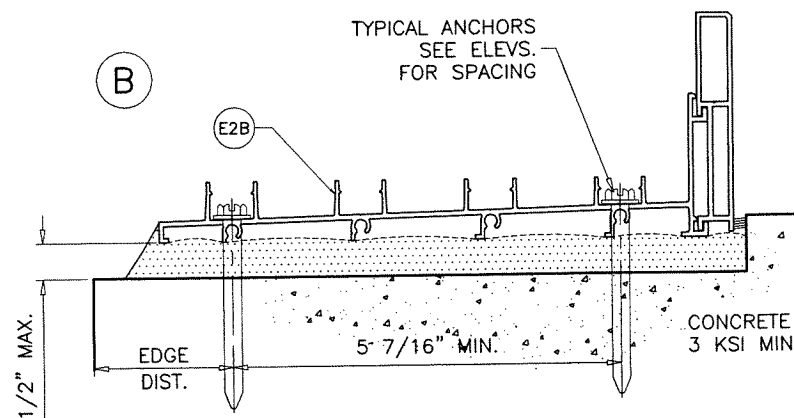
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20-12D
sheet 18 of 23



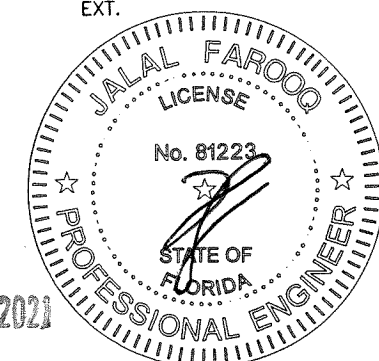
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Miami-Dade Product Control

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4 TRACK FRAMES
ANCHOR LOCATIONS

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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
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ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)
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drawing no.	20-12D		
sheet	19 of 23		

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-EL400-001	1	FRAME HEAD (2 TRACK)	6063-T6	-
E1A	ES-EL400-201	AS REQD.	FRAME HEAD (3 TRACK)	6063-T6	-
E1B	ES-EL400-205	AS REQD.	FRAME HEAD (4 TRACK)	6063-T6	-
E2	ES-EL400-002	1	FRAME SILL (2 TRACK)	6063-T6	-
E2A	ES-EL400-202	AS REQD.	FRAME SILL (3 TRACK)	6063-T6	-
E2B	ES-EL400-206	AS REQD.	FRAME SILL (4 TRACK)	6063-T6	-
E3	ES-EL400-003	2	FRAME JAMB (2 TRACK)	6063-T6	-
E3A	ES-EL400-203	AS REQD.	FRAME JAMB (3 TRACK)	6063-T6	-
E3B	ES-EL400-207	AS REQD.	FRAME JAMB (4 TRACK)	6063-T6	-
E4	ES-EL400-004	1/ PANEL	TOP RAIL (INSUL. LAM. GLASS)	6063-T6	-
E5	ES-EL400-005	1/ PANEL	BOTTOM RAIL (INSUL. LAM. GLASS)	6063-T6	-
E6	ES-EL400-006	AS REQD.	JAMB STILE (INSUL. LAM. GLASS)	6063-T6	-
E8	ES-EL400-009	1/ PANEL	TOP RAIL (LAM. GLASS)	6063-T6	-
E9	ES-EL400-010	1/ PANEL	BOTTOM RAIL (LAM. GLASS)	6063-T6	-
E10	ES-EL400-011	AS REQD.	JAMB STILE (LAM. GLASS)	6063-T6	-
E11	ES-EL400-030	AS REQD.	INTERLOCK STILE (LAM. GLASS)	6063-T6	-
E11A	ES-EL400-031	AS REQD.	INTERLOCK STILE (INSUL. LAM. GLASS)	6063-T6	-
E12	ES-EL400-028	AS REQD.	ASTRAGAL STILE (LAM. GLASS)	6063-T6	-
E12A	ES-EL400-029	AS REQD.	ASTRAGAL STILE (INSUL. LAM. GLASS)	6063-T6	-
E13	ES-EL400-014	AS REQD.	JAMB COVER	6063-T5	-
E14	ES-EL400-015	AS REQD.	POCKET JAMB	6063-T6	-
E15	ES-EL400-016	AS REQD.	SILL TRACK	6063-T6	-
E16	ES-EL400-017	AS REQD.	HEAD COVER	6063-T5	-
E17A	ES-2020-007	AS REQD.	SILL RISER	6063-T6	-
E17B	ES-2020-041	AS REQD.	ALT. SILL RISER	6063-T6	-
E18	ES-EL400-020	AS REQD.	FIXED PANEL BOTTOM GUIDE	6063-T6	-
E26	ES-6011	AS REQD.	SCREW COVER	6063-T6	-
M1	ES-EL400-G01	4/ PANEL	GLAZING GASKET (LAM. GLASS)	SILICONE	DUROMETER 70±3 SHORE A
M2	ES-EL400-G02	4/ PANEL	GLAZING GASKET (INSUL. LAM. GLASS)	SILICONE	DUROMETER 70±3 SHORE A
M3	ES2020-G04	AS REQD.	INTERLOCK BUMPER	PVC	DUROMETER 60±5 SHORE D
M4	W33271NK	AS REQD.	PILE W'STRIPPING (INTERLOCK)	WOOL	-
M5	W33181NK	AS REQD.	PILE W'STRIPPING	WOOL	-
M6	PS01-0014	AS REQD.	DOOR HANDLE	DIE CAST ALUM	TWO POINT HANDLE
M7	PS01-1015	AS REQD.	STRIKE FOR MORTISE LOCK	ST. STEEL	-
M8	PS01-1036	AS REQD.	MORTISE 2 POINT LOCK	ST. STEEL	-
M9	GT-R34/3-01-A	2/ PANEL	ROLLER ASSEMBLY	ZAMAK	-
M10	6844.1	AS REQD.	BUMPER	ALUM/NYLON	-
M11	ES-EL400-FPI SL	AS REQD.	FIX. PANEL CLIP	ST. STEEL	-
M12	#8 X 3/4"	AS REQD.	KEEPER FASTENERS	ST. STEEL	P.H. SMS
M13	#10 X 1-1/4"	AS REQD.	PANEL ASSEMBLY FASTENERS	ST. STEEL	P.H. SMS
M14	#10 X 1-1/2"	AS REQD.	FRAME ASSEMBLY FASTENERS	ST. STEEL	P.H. SMS
M15	#6 X 3/8"	AS REQD.	FIX. PANEL CLIP FASTENERS	ST. STEEL	P.H. SMS
M16	#8 X 1/2"	AS REQD.	FIX. PANEL CLIP FASTENERS	ST. STEEL	F.H. SMS
M18	#10 X 1/2"	AS REQD.	ROLLER FASTENERS	ST. STEEL	P.H. SMS
M19	#10 X 1"	AS REQD.	LOCK INSTALLATION FASTENERS	ST. STEEL	F.H. SMS
M20	#8 X 1/2"	AS REQD.	HANDLE INSTALLATION FASTENERS	ST. STEEL	F.H. SMS

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

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Miami-Dade Product Control

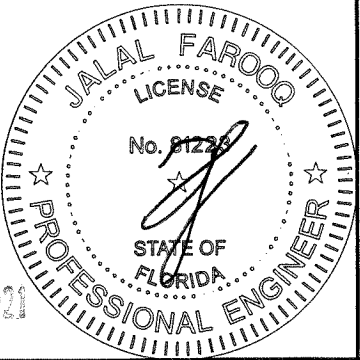
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LOCK:

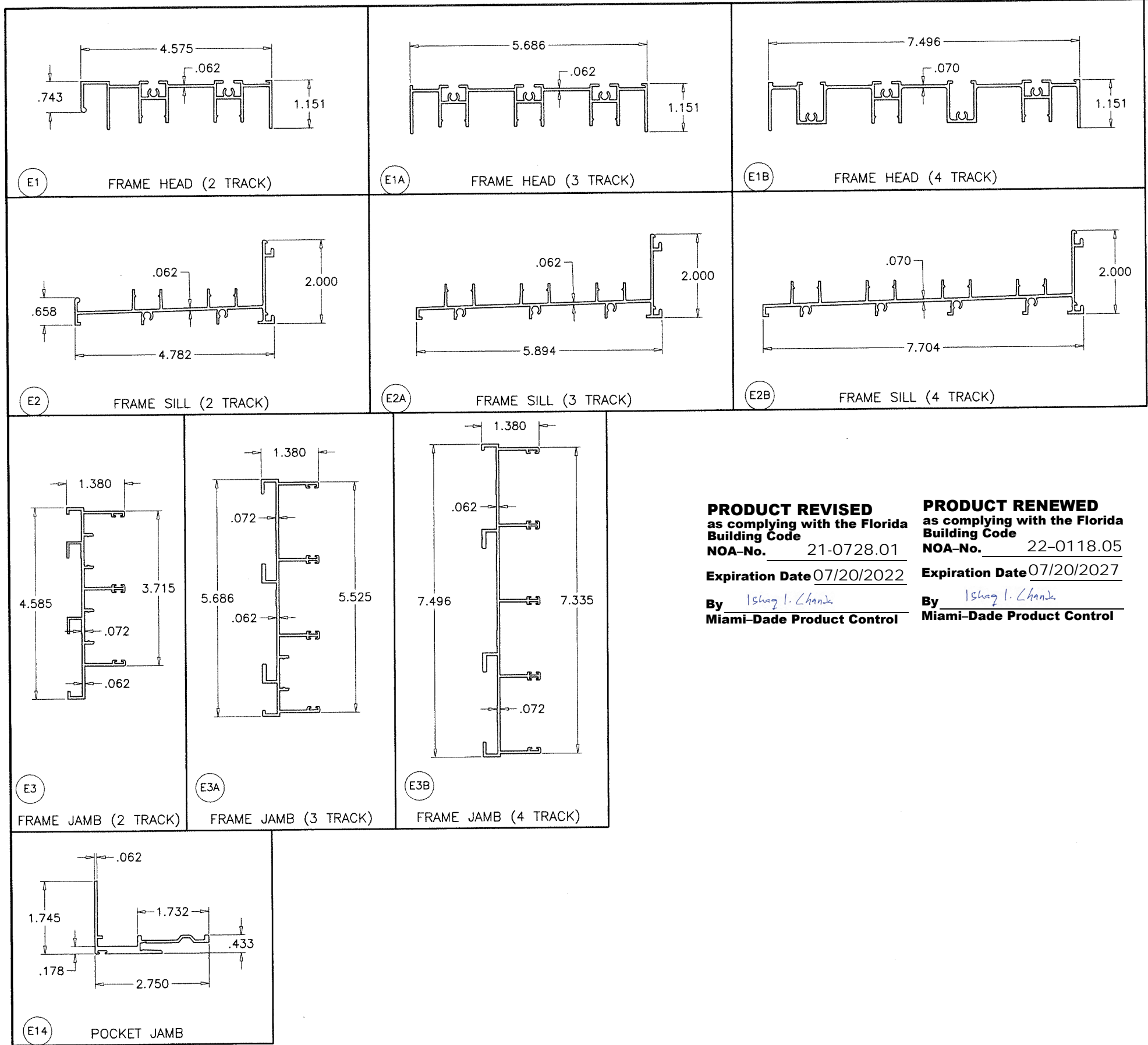
SURFACE MOUNT METALLIC HANDLE AT 44" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #8 X 1/2" FH SMS (M20)
SURFACE MOUNT METALLIC 3 PLY DUAL HOOK LOCK
44" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #10 X 1" FH SMS
SURFACE MOUNT METALLIC KEEPER AT 44" FROM BOTTOM
FASTENED TO FRAME JAMB AND ASTRAGAL STILE WITH
(3) #8 X 3/4" PH SMS (M12)



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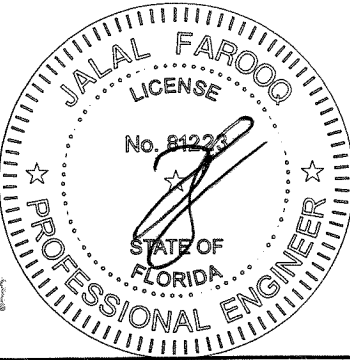
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AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978 (C.A.N. 3538)	
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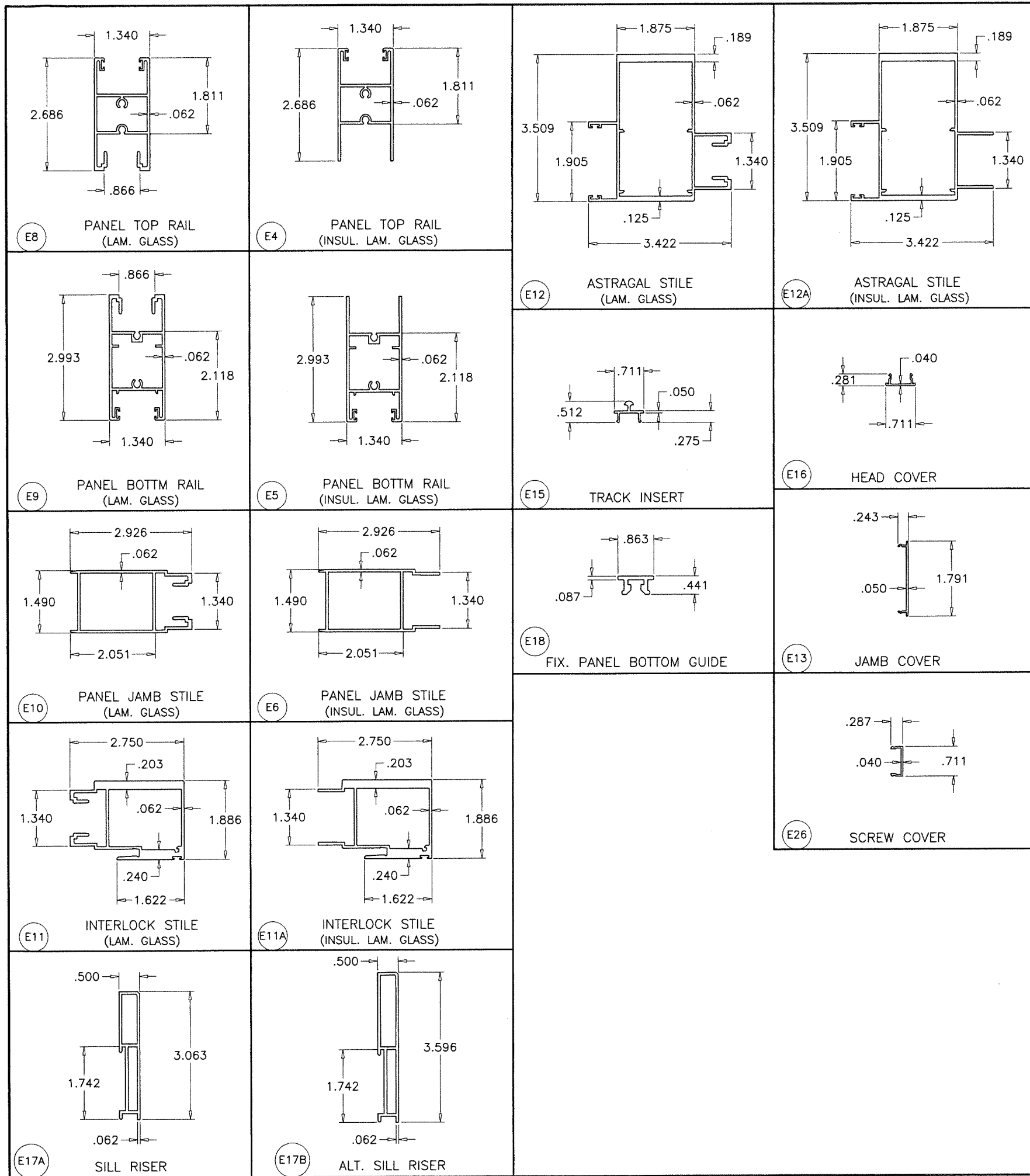
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(M1)

GLAZING GASKET
LAM. GLASS

(M2)

GLAZING GASKET
INSUL. LAM. GLASS

MATERIAL = SILICONE
 HARDNESS = 70±3
 TENSILE STRENGTH = 1139 PSI
 ELONGATION AT BREAK = 235%
 TEAR STRENGTH = 107 Lb/IN
 BRITTLENESS TEMPERATURE = -40° F
 COMPRESSION SET = 12.5% (22h@212°F)

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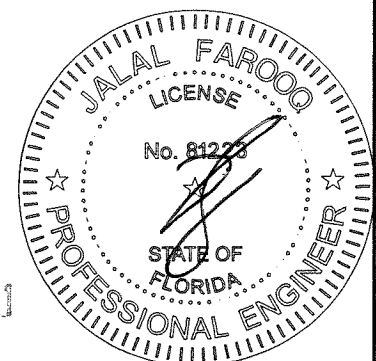
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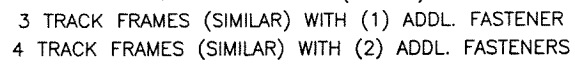
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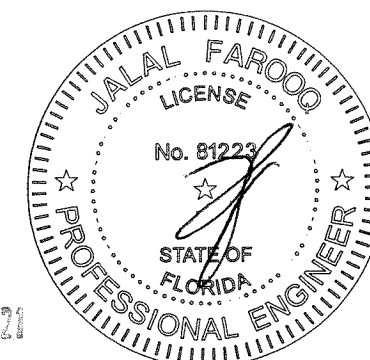
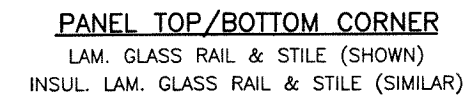
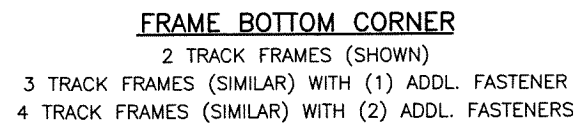
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sheet **22** of **23**



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FAX. (305) 638-5158

TEL. (305) 638-5151

12345678910111213141516171819202122232425262728293031323334353637383940414243444546474849505152535455565758596061626364656667686970717273747576777879808182838485868788899091929394959697989910010110210310410510610710810911011111211311411511611711811912012112212312412512612712812913013113213313413513613713813914014114214314414514614714814915015115215315415515615715815916016116216316416516616716816917017117217317417517617717817918018118218318418518618718818919019119219319419519619719819920020120220320420520620720820921021121221321421521621721821922022122222322422522622722822923023123223323423523623723823924024124224324424524624724824925025125225325425525625725825926026126226326426526626726826927027127227327427527627727827928028128228328428528628728828929029129229329429529629729829930030130230330430530630730830931031131231331431531631731831932032132232332432532632732832933033133233333433533633733833934034134234334434534634734834935035135235335435535635735835936036136236336436536636736836937037137237337437537637737837938038138238338438538638738838939039139239339439539639739839940040140240340440540640740840941041141241341441541641741841942042142242342442542642742842943043143243343443543643743843944044144244344444544644744844945045145245345445545645745845946046146246346446546646746846947047147247347447547647747847948048148248348448548648748848949049149249349449549649749849950050150250350450550650750850951051151251351451551651751851952052152252352452552652752852953053153253353453553653753853954054154254354454554654754854955055155255355455555655755855956056156256356456556656756856957057157257357457557657757857958058158258358458558658758858959059159259359459559659759859960060160260360460560660760860961061161261361461561661761861962062162262362462562662762862963063163263363463563663763863964064164264364464564664764864965065165265365465565665765865966066166266366466566666766866967067167267367467567667767867968068168268368468568668768868969069169269369469569669769869970070170270370470570670770870971071171271371471571671771871972072172272372472572672772872973073173273373473573673773873974074174274374474574674774874975075175275375475575675775875976076176276376476576676776876977077177277377477577677777877978078178278378478578678778878979079179279379479579679779879980080180280380480580680780880981081181281381481581681781881982082182282382482582682782882983083183283383483583683783883984084184284384484584684784884985085185285385485585685785885986086186286386486586686786886987087187287387487587687787887988088188288388488588688788888989089189289389489589689789889990090190290390490590690790890991091191291391491591691791891992092192292392492592692792892993093193293393493593693793893994094194294394494594694794894995095195295395495595695795895996096196296396496596696796896997097197297397497597697797897998098198298398498598698798898999099199299399499599699799899910001001100210031004100510061007100810091010101110121013101410151016101710181019102010211022102310241025102610271028102910301031103210331034103510361037103810391040104110421043104410451046104710481049105010511052105310541055105610571058105910601061106210631064106510661067106810691070107110721073107410751076107710781079108010811082108310841085108610871088108910901091109210931094109510961097109810991100110111021103110411051106110711081109111011111112111311141115111611171118111911201121112211231124112511261127112811291130113111321133113411351136113711381139114011411142114311441145114611471148114911501151115211531154115511561157115811591160116111621163116411651166116711681169117011711172117311741175117611771178117911801181118211831184118511861187118811891190119111921193119411951196119711981199120012011202120312041205120612071208120912101211121212131214121512161217121812191220122112221223122412251226122712281229123012311232123312341235123612371238123912401241124212431244124512461247124812491250125112521253125412551256125712581259126012611262126312641265126612671268126912701271127212731274127512761277127812791280128112821283128412851286128712881289129012911292129312941295129612971298129913001

COMP-ANL\20-12D-ES

date: 02-14-20		revisions:	
scale: 3/8" = 1"	no	date	by
drawing no. 20-12D	A	09.02.20	NO CHANGE THIS SHEET
	B	06.23.21	NO CHANGE THIS SHEET
	C	08.04.21	NO CHANGE THIS SHEET
sheet 23 of 23		dr. by: TARIQ	
	chk. by:		