

Rebecca Dima

From: Paul Schilling
Sent: Friday, July 17, 2026 11:40 AM
To: Rebecca Dima
Subject: FW: Notice of Appeal to the BCC
Attachments: FW: Exhibit C- Building permit file; FW: Exhibits I-L; FW: Confirmation of Receipt – Notice of Appeal and Exhibits

Paul Schilling

Growth Management Director
Growth Management Department
(772) 288-5473

From: Elysse Elder <eelder@martin.fl.us>
Sent: Friday, July 17, 2026 11:16 AM
To: Paul Schilling <pschilli@martin.fl.us>; Peter Walden <pwalden@martin.fl.us>; Sebastian Fox <sfox@martin.fl.us>; Clyde Dulin <cdulin@martin.fl.us>
Subject: FW: Notice of Appeal to the BCC

FYI -

Elysse Elder, Esq., B.C.S

County Attorney
County Attorney's Office
(772) 288-5925

From: Donna Gordon <dgordon@martin.fl.us>
Sent: Friday, July 17, 2026 11:12 AM
To: Elysse Elder <eelder@martin.fl.us>
Subject: FW: Notice of Appeal to the BCC

Donna Gordon

Administrative Services Program Coordinator
Administration Department
(772) 221-1352

From: cbeaton87@aol.com <cbeaton87@aol.com>
Sent: Friday, July 10, 2026 11:50 AM
To: County Administrator <CountyAdministrator@martin.fl.us>; Kimberlee Levee <klevee@martin.fl.us>
Subject: Notice of Appeal to the BCC



CAUTION: This email originated from outside MCB OCC

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MARTIN COUNTY, FLORIDA

BEFORE THE MARTIN COUNTY BOARD OF COUNTY COMMISSIONERS

IN RE:

Appeal of Final Administrative Action

Building Permit Application No. BLD2025080317

Property Address:

18250 SE Loxahatchee River Road

Jupiter, Florida 33469

NOTICE OF APPEAL

Pursuant to Article 10.12 of the Martin County Land Development Regulations, Appellant, **Cory Beaton**, hereby appeals the Final Administrative Decision of the County Administrator affirming the denial of Building Permit Application No. BLD2025080317.

I. IDENTIFICATION OF APPELLANT

Appellant: Cory Beaton

Address:

11384 52nd Rd N. West Palm Beach, Fl. 33411

Telephone: 561-723-0264

Email: Cbeaton87@aol.com

II. REPRESENTATION

Appellant appears in this matter **pro se**.

No representative has been retained for purposes of this appeal.

III. FINAL ACTION BEING APPEALED

This appeal arises from the Final Administrative Decision issued by County Administrator **Don Donaldson**, affirming the denial of Building Permit Application No. **BLD2025080317** following the Administrative Review conducted pursuant to Article 10.12 of the Martin County Land Development Regulations.

A copy of the Final Administrative Decision is attached as **Exhibit A**.

IV. BASIS FOR APPEAL

Article 10.12.E.3(d) defines the Board of County Commissioners' role in reviewing this appeal. The Board's review is expressly limited to determining whether the County administrative officials:

1. Accorded procedural due process;
2. Observed the essential requirements of law; and
3. Made the final action under review based upon competent substantial evidence.

Those three questions define the scope of this appeal and the scope of the Board's review.

The ordinance further provides that the Board **"shall consider only those facts established at the time of the original decision that is the subject of the appeal and shall not consider new information or evidence."**

Accordingly, this appeal does not ask the Board to resolve competing claims of property ownership or adjudicate title to real property. Those issues are beyond the scope of the Board's review under Article 10.12.

Rather, this appeal asks the Board to determine whether the County administrative officials complied with the procedural requirements imposed by Article 10.12 when denying and subsequently affirming Building Permit Application No. BLD2025080317.

Article 10.12 authorized the County Administrator to review the appealed final action; it did not authorize the County to change the basis of that final action during the appeal

A. Procedural Due Process

The appealed final action denied the permit based upon the County's interpretation of Comprehensive Plan Policy 4.1E.4 and Land Development Regulation Section 3.13. Throughout the permit review process and multiple meetings with County staff, Senior Assistant County Attorney Sebastian Fox advised Appellant that Martin County was not disputing Appellant's property boundary or ownership of

a two-acre parcel, but rather maintained that submerged lands could not be counted toward density under Comprehensive Plan Policy 4.1E.4.

That position was entirely consistent with the Conditions Report. At no point during the permit review process was ownership of the submerged lands identified as a basis for denial. Instead, the permit was consistently denied based upon the County's interpretation of Policy 4.1E.4 that submerged lands could not be included in the density calculation. Although Appellant identified multiple permits issued within the same neighborhood over a period of approximately forty years in which submerged lands were counted toward density, County staff characterized those approvals as "mistakes." Whether those approvals were correct or incorrect, they demonstrate that the issue presented throughout the permit review process was the interpretation and application of Policy 4.1E.4—not ownership of the property.

During the Administrative Review, however, the focus fundamentally changed. Rather than determining whether the appealed final action correctly applied Policy 4.1E.4 based upon the facts existing at the time of the denial, the proceeding shifted to whether Appellant had "conclusively demonstrated" ownership of the submerged lands. That ownership issue ultimately became the basis for affirming the denial.

Because ownership was never identified in the Conditions Report or the appealed final action as a basis for denial, Appellant had no notice that the appeal would be decided on that issue. As a result, Appellant was deprived of a meaningful opportunity to address the actual basis upon which the County Administrator ultimately affirmed the permit denial.

Moreover, no deed, conveyance, court order, or other document divesting Appellant or Appellant's predecessors in title of the submerged lands described in the recorded legal description was identified or presented during the Administrative Review. Likewise, no documentary evidence supporting the County Administrator's ownership determination was identified in the written decision. Fundamental principles of procedural due process require that parties receive notice of the issues to be decided and a fair opportunity to review and respond to the evidence upon which the decision is based. Appellant respectfully submits that those safeguards were not observed in this case.

B. Essential Requirements of Law

Article 10.12.D.4 required the County Administrator to consider **only those facts established at the time of the appealed final action** and prohibited consideration of new information or evidence. Rather than reviewing the permit denial based upon the issues presented in the appealed final action, the written decision affirmed the denial upon a materially different rationale.

In doing so, the written decision failed to identify any legal authority authorizing Martin County to disregard Appellant's recorded deed, recorded legal description, licensed boundary surveys, chain of title, and official Property Appraiser records in favor of an unresolved ownership assertion by another governmental entity.

Florida law expressly recognizes that privately owned submerged lands may exist. Section 253.12, Florida Statutes, begins with the qualifying language, **"Except submerged lands heretofore conveyed by deed or statute..."**, acknowledging that not all submerged lands remain sovereign lands of the State. The existence of submerged lands alone does not determine ownership.

Likewise, ownership of real property in Florida is established through recorded instruments of conveyance maintained in the public records, while property boundaries are established by the legal

descriptions contained within those recorded instruments and by licensed land surveys prepared in accordance with Florida law. Neither Article 10.12 nor the Martin County Land Development Regulations authorize the County Administrator to disregard those recorded property records or independently determine title during an administrative building permit appeal.

If Martin County believed Appellant's recorded deed, legal description, or surveyed boundary was legally insufficient, the appealed final action should have identified that issue and cited the applicable ordinance, statute, judicial decision, or other legal authority supporting that conclusion. Neither the Conditions Report nor the County Administrator's written decision does so.

Instead, the written decision introduced a new ownership rationale during the Administrative Review and affirmed the denial on that basis. Appellant respectfully submits that this exceeded the scope of review authorized by Article 10.12 and failed to observe the essential requirements of law.

C. Competent Substantial Evidence

The administrative record existing at the time of the appealed final action included Appellant's recorded deed, recorded legal description, licensed boundary surveys, surveyor certification, Property Appraiser records, chain of title, and County tax records.

The County Administrator's written decision does not explain why those materials were legally insufficient, nor does it identify any statute, ordinance, judicial decision, Attorney General opinion, or other legal authority authorizing Martin County to disregard them in favor of an unresolved ownership assertion by another governmental entity.

Likewise, no document divesting Appellant or Appellant's predecessors in title of the submerged lands described in the recorded legal description was identified or presented during the Administrative Review or cited in the written decision.

Accordingly, Appellant respectfully submits that the County Administrator's written decision is not supported by competent substantial evidence as required by Article 10.12.E.3(d).

V. APPLICABLE AUTHORITIES

This appeal is based upon the following authorities:

- Article 10.12, Martin County Land Development Regulations.
- Martin County Comprehensive Plan Policy 4.1E.4.
- Martin County Land Development Regulation Section 3.13.
- The Final Administrative Decision of the County Administrator on June 30th.
- The administrative record existing at the time of the appealed final action.

VI. RELIEF REQUESTED

Appellant respectfully requests that the Board of County Commissioners:

1. Reverse the County Administrator's Final Administrative Decision affirming the denial of Building Permit Application No. BLD2025080317 and Approve the building permit based upon the facts that were established at the time of permit denial.

Appellant further requests such additional relief as the Board determines to be just and proper.

VII. EXHIBIT INDEX

The following exhibits are submitted in support of this appeal:

Exhibit A – Final Administrative Decision of County Administrator Don Donaldson

Exhibit B – Development Review Conditions Report

Exhibit C – Building Permit Application No. BLD2025080317 (filing separately due to size)

Exhibit D – Recorded Warranty Deed

Exhibit E – Licensed Boundary Surveys (two separate companies)

Exhibit F – Surveyor Certification Letter

Exhibit G – Chain of Title Documents

Exhibit H – Martin County Property Appraiser Records

Exhibit I – Martin County Property Tax Records

Exhibit J – Relevant Correspondence from Amy Offenbach acknowledging residential use without stipulations

Exhibit K – Article 10.12, Martin County Land Development Regulations

Exhibit L – Comprehensive Plan Policy 4.1E.4

VIII. ADDITIONAL MATTERS

Due to the volume and file size of the supporting exhibits, the attachments referenced in this Notice of Appeal will be submitted separately in an organized exhibit package. Each exhibit is identified in the Exhibit Index and is incorporated herein by reference.

Appellant remains committed to resolving this matter through the County's administrative process whenever possible. Should the County Administrator reconsider or withdraw the Final Administrative Decision before the Board conducts its review, Appellant remains willing to work cooperatively with

Martin County to resolve this matter without the need for further administrative proceedings, provided such resolution is consistent with the Martin County Comprehensive Plan, the Land Development Regulations, and applicable law.

Nothing contained herein shall be construed as a waiver of any rights or remedies available to Appellant under Article 10.12, Florida law, or any subsequent judicial review.

Respectfully submitted,

Cory Beaton



2401 SE Monterey Road
Stuart, FL 34996
(772) 288-5400
www.martin.fl.us

**Martin County
Board of County
Commissioners**

Eileen Vargas
District 1

Stacey Hetherington
District 2

J. Blake Capps
District 3

Sarah Heard
District 4

Edward V. Ciampi
District 5

County Administrator
Don G. Donaldson, P.E.

County Attorney
Elysse A. Elder

*Your **County.**
Your **Community.***

June 30, 2026

Exhibit A

Via email and US Mail

Mr. Cory Beaton
cbeaton87@aol.com
11384 52nd Road North
Royal Palm Beach, FL 33411

Re: Article 10 Appeal: 18250 SE Loxahatchee River Road

Dear Mr. Beaton:

On June 17, 2026, I conducted an administrative review meeting for Permit Application BLD2025080317 for the above referenced property. You were afforded the opportunity to fully participate in the meeting and present all information relevant to your appeal. County staff also attended and participated in the administrative review.

After reviewing the record and considering the information presented during the administrative review meeting, I have determined that the denial of the above-referenced building permit was appropriate because you did not conclusively demonstrate that you own the submerged lands at issue.

During the review of your building permit application, County staff questioned your claim of ownership of the submerged lands and requested that you obtain documentation from the State of Florida supporting your assertion. There is documentation contained in the Official Records, including historical TIFF deeds, dedications, land leases, and easements, indicating that the State claims ownership of the submerged lands lying below the mean high-water line of the Loxahatchee River, including the submerged lands you claim and the creek fingers located in the southern portion of the area. You did not provide a letter from the State or any other conclusive evidence establishing your ownership of the submerged lands. In addition, following the administrative review meeting, the County received confirmation from the State of Florida that it claims ownership of the submerged lands in question.

Exhibit A

Because you do not own the submerged lands, your property cannot satisfy the two-acre minimum lot area requirement, regardless of the interpretation of the Land Development Regulations. Accordingly, the remaining issues raised in your appeal are rendered moot and need not be addressed.

Pursuant to Section 10.12.D.6, Land Development Regulations, Martin County Code, within ten (10) working days of the issuance of this written decision, you may appeal the written decision to the Board of County Commissioners by filing a notice of appeal with the County Administrator. Failure to timely file an appeal shall constitute a waiver of any right to any appeal.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Don G. Donaldson', with a stylized flourish at the end.

Don G. Donaldson, P.E.
County Administrator

cc: Elysse A. Elder, County Attorney
Paul Schilling, Growth Management Department Director
Jeff Dougherty, Building Official

Issues for record BLD2025080317

Exhibit B

Job Address: 18250 SE LOXAHATCHEE RIVER RD, JUPITER FL 33458

Job Description: Construction of a Single Family Residence 7776sf

No	Discipline	Status	Details	Attached To	Created By	Last Updated By	Modifications Required
20	Building	Open	BUILD - Protection of Appliances Appliances shall not be installed in a location subject to vehicle damage except where protected by approved barriers. • Water Heater & A/C installed in garage require barriers. 8th Edition (2023) FBC Residential M1307.3.1/M303.4		David Daversa	David Daversa	Yes
19	Building	Open	BUILD - Roof Clarification: Lanai Wall Section • Lanai wall section (sheet 03) indicates conc tile roof. • Typical wall section (sheet 01) indicates metal roof. Please review and revise for consistency. NOTE: elevations indicate metal roof. 8th Edition (2023) FBC Residential 107.2.1	03	David Daversa	David Daversa	Yes
18	Plumbing	Open	PLUMB - Size of drainage piping shall not be reduced in direction of flow • W.C.'s show 4 inch, reducing to 3" please revise. FBC/Residential P3005.4 ENVIRONMENTAL GENERAL COMPLIANCE Martin Count, LDR, Article 4, Division 1, Section 4.4.A.g.1 Protection of the Shoreline Protection Zone. Shoreline Protection Zones and any other designated upland preserve areas shall be protected from encroachment due to construction and/or building maintenance activities. Erosion control devices shall be installed and maintained throughout the duration of any construction activities adjacent to the Shoreline Protection Zone.(1)New construction proposed for areas adjacent to the Shoreline Protection Zone shall be set back a minimum of ten feet (or greater if warranted by specific site conditions) for primary structures. Minimum setbacks for accessory structures (pool decks, screen enclosures, driveways, etc.) shall be five feet. This setback is unrelated to setbacks associated with specific zoning districts.	P-1	Robert Smith	Robert Smith	Yes
17	Environmental	Open	ENVIRONMENTAL GENERAL COMPLIANCE Martin Count, LDR, Article 4, Division 1, Section 4.4.A.g.1 Protection of the Shoreline Protection Zone. Shoreline Protection Zones and any other designated upland preserve areas shall be protected from encroachment due to construction and/or building maintenance activities. Erosion control devices shall be installed and maintained throughout the duration of any construction activities adjacent to the Shoreline Protection Zone.(1)New construction proposed for areas adjacent to the Shoreline Protection Zone shall be set back a minimum of ten feet (or greater if warranted by specific site conditions) for primary structures. Minimum setbacks for accessory structures (pool decks, screen enclosures, driveways, etc.) shall be five feet. This setback is unrelated to setbacks associated with specific zoning districts.		Gerry Carroll	Allison Brunner	Yes

Last comment from reviewer: Revised survey/site plan was not submitted.

16 Environmental Answered

PAMP REQUIRED

Please advise the property owner that a Preserve Area Management Plan (PAMP) is required to be completed (including recording) prior to permit issuance. Environmental Assessment is required.

Separate PAMP application and completion may be required. (Previously approved unrecorded PAMP on file.)

Contact Environmental Growth Management Division for more details at 772-288-5495 or via email at env@martin.fl.us.

Gerry Carroll
Cory Beaton

No Discipline Status Details

Attached To Created By Last Updated By Modifications Required

Exhibit B

Last comment from reviewer: Per notes of the 8/1/25 conversation. An Abbreviated PAMP would be required for this property for a 75' SPZ- an EA would be part of this application review. This separate application can be reviewed concurrently with a BLD permit, but must be approved before the BLD permit can be issued.

Please contact Environmental Growth Management Division for more details at 772-288-5495 or via email at env@martin.fl.us.

Last response: Please email the previously approved PAMP on record to cbeaton87@aol.com, thanks

15 Zoning Answered

Gerry Carroll Cory Beaton Yes

LOT SIZE INCORRECT

The lot is not meeting the minimum lot size requirement in this district. If the lot was created prior to the adoption of the current code, submit a copy of the deed showing the year the lot was created in the current configuration. The zoning district min requirement is: 2 ACRES.

Per Martin County Comp Plan, Chapter 4, Policy 4.1E.4 No submerged land areas waterward of the boundary described above shall be included under this definition.

Submit corrections to all identified issues, a brief response/acknowledgment are required before you will be able to submit revised plans and documents as a new review package with the plan room. Please label Survey/Site Plans accordingly. To access your application and review the issues/notes please use the Martin County Online Portal ACA System.

ADDITIONAL COMMENTS MAY APPLY

Last comment from reviewer: This issue was not addressed.

COMPREHENSIVE PLAN:

Policy 4.1E.4. Gross density. The permitted densities stipulated in section 4.4 (Goals, Objectives and Policies) and on the FLUM designations shall be gross residential densities and the gross land area of which this density is applied is described as follows. These densities shall be applied to contiguous land areas under common ownership, with the following provisions and exceptions:

(1) In cases where land abuts the waters of the Atlantic Ocean, St. Lucie River, Indian River, Loxahatchee River, Intracoastal Waterway, Lake Okeechobee or any tributary or manmade canal, the boundary of the land shall be delineated as established by State Statutes. (2) No submerged land areas waterward of the boundary described above shall be included under this definition.

LAND DEVELOPMENT REGULATIONS:

Sec. 3.13. - Calculation of residential density.

As set forth in Table 3.12.1, maximum residential density means the maximum number of residential dwelling units that may be developed per acre of gross land area on a parcel of land. The gross land area of a parcel shall include all contiguous land areas under

No	Discipline	Status	Details	Attached To	Created By	Last Updated By	Modifications Required
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Exhibit B

common ownership, including land to be dedicated for public or private rights-of-way, with the following provisions and exceptions:

3.13.A. Waterbodies. In cases where land abuts the waters of the Atlantic Ocean, St. Lucie River, Indian River, Loxahatchee River, Intracoastal Waterway, Lake Okeechobee and all tributaries and manmade canals thereof, the boundary of land shall be delineated as established by state statutes (Chapter 177, Part II, Coastal Mapping, as may be amended).

3.13.B. Submerged land areas. No submerged land areas waterward of the boundary described above shall be included in the calculation of gross site area.

Last response: I'm going to break this down for you. 4.1E.4

FSS 253.12 Title to tidal lands vested in state.—The very 1st sentence.

(1) Except submerged lands heretofore conveyed by deed or statute.

This was formerly dry land that was dredged to widen the river. I retained ownership and it is part of my gross density calculation which is 2.01 acres contained within my LEGAL description which has been provided to you. I pay taxes on this land. The boundary has been delineated per the state statute. Are we clear?

Second part. No submerged land areas waterward of the BOUNDARY described above shall be included. It does not say waterward of the MHWL. It adds the word BOUNDARY. Words have meaning. If the intent was to disallow use of ALL submerged lands, it could've said simply that, however it does not. The policy is very specific. Submerged land areas are rarely used for density purposes in the county because 99% of people do not OWN them. Rivers Edge is different. This policy is being applied in a new way contrary to past practice (precedence) within the area. I'm being personally targeted. I'm not entertaining this any further. Either remove the issue or deny the damn permit so I have cause of action against the county. I'm not providing any additional revisions until this resolved. Give this to Paul ASAP

SEWAGE DISPOSAL SYSTEM

Per Article 4, Division 7, Subdivision 2 Section 4.307 On-site sewage disposal system regulations: The septic tank must be set back 75ft from a drinking water well and 50ft from an irrigation well. Please indicate this on the site plan and resubmit.

Submit corrections to all identified issues, a brief response/acknowledgment are required before you will be able to submit revised plans and documents as a new review package with the plan room. Please label Survey/Site Plans accordingly. To access your application and review the issues/notes please use the Martin County Online Portal ACA System.

ADDITIONAL COMMENTS MAY APPLY

14	Environmental	Accepted	Gerry Carroll	Allison Brunner	Yes
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Last comment from reviewer: 2/26/26 - Spoke with both utilities and the services are available for connectivity.

Water: Town of Jupiter Utilities Call 561-741-2300

Sewer: Loxahatchee River E.C.D. Call 561-747-5700

Last response: As stated in my last response, this property will not have a Septic system. It is serviced by Sewer and City water

No Discipline Status Details

Exhibit B

Attached To Created By Last Updated By Modifications Required

ADDRESS ON PLANS ARE INCORRECT

Plans are showing the address of the proposed structure is located in Pam Beach County. Please revise plans to show the corrected address in Martin County.

Submit corrections to all identified issues, a brief response/acknowledgment are required before you will be able to submit revised plans and documents as a new review package with the plan room. Please label Survey/Site Plans accordingly. To access your application and review the issues/notes please use the Martin County Online Portal ACA System.

ADDITIONAL COMMENTS MAY APPLY

13 Zoning Answered

Gerry Carroll C-1 Cory Beaton Yes

Last comment from reviewer: Sheet C-1 Job Location map was not revised to the correct address/location. Please correct.

Last response: I will have the map updated, thanks

LAND CLEARING PLAN/PAGE

A Land Clearing Page, separate from Site Plan, is required. Land clearing page shall include the following information:

1. Proposed limits of clearing (property corners locations to be staked for inspection)
2. Locations of on-site and/or adjacent preserve areas or wetlands
3. Locations of required barricades and/or erosion control devices (silt fence and/or stabilized berms)
4. List (species, height, DBH) and locations of native trees to be retained and their protection barricades
5. Location of permit box
6. Proposed locations of debris/materials stockpiles
7. Include note: "All prohibited trees/vegetation shall be removed during land clearing"

12 Environmental Open

Gerry Carroll Allison Brunner Yes

*On-site preserve barricade inspection may be required prior to permit issuance where applicable

Sample Land Clearing Plan: <https://www.martin.fl.us/resources/sample-land-clearing-plan-pdf>

Last comment from reviewer: Land Clearing Plan/Page was not submitted. Please address.

11 Building Open

David Daversa David Daversa Yes

BUILD - Revision Correction Format

When responding to review comments, submit a cover letter from the Architect or Engineer of record addressing each comment:

- Reference the drawing sheet number where the correction may be found.
- All revisions/corrections to the drawings must be clouded with a revision number and date.

**** Please ONLY SUBMIT THE DRAWING SHEETS THAT ARE REVISED to address conditions of approval.**

No	Discipline	Status	Details	Attached To	Created By	Last Updated By	Modifications Required
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Exhibit B

Last comment from reviewer: Issue still applies

BUILD - Location Verification

- Address on plan sheets is inconsistent with the application address. (shows a palm beach county location)
- Job location map on sheet C-1 is inconsistent with the application address.

NOTE: No building review completed until plans are updated with correct address information (may not be the correct plan) - A FULL BUILDING REVIEW REQUIRED UPON RESUBMITTAL.

8th Edition (2023) FBC Residential 107.2.1

Last comment from reviewer: correct plans submitted

Last response: I will make sure to update the address/job location on the revised plan. Thank you

BUILD - Product Approval Checklist

Please submit a copy of the Martin County Product Approval Checklist Form.

- Form must be signed and sealed by the Architect or Engineer of Record to certify compliance with the building design criteria.
- Scheduled components must match those submitted by the applicant.

8th Edition (2023) FBC Residential 107.3 & 107.2.1

Last response: It is included in my resubmittal

Electrical receptacle guest bedroom

Walls two feet are greater need to have receptacle. NEC 210.52

Last response: I will have this fixed on the revised plans

Electrical receptacles in master

Walls two feet are greater need receptacles. NEC 210.52

Last response: I will have this fixed on the revised plans

ELECT - Kitchen Island / Peninsula Receptacle Outlet

Roughly 72 sf - (5) receptacle outlets
Island/peninsula requires 1 outlet for 1st 9 SF countertop + 1 outlet for each 18 SF, or fraction thereof, of additional countertop.

- Please provide (x) additional receptacle outlet(s) as required.
- NOTE: Receptacle outlets located below countertop overhang of 6" or more do not qualify.

NEC 210.52 (C) (2) Island and Peninsula Countertops and Work Surfaces

Exhibit B

No	Discipline	Status	Details	Attached To	Created By	Last Updated By	Modifications Required
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Last comment from reviewer: Overhang appears to be greater than 6 inches, so 3 of the receptacle outlets dont qualify to meet the requirements above, not duplex receptacle is still only considered 1 receptacle outlet, please provide as previously requested.

ELECT - Surge Protective Device

Installation of Surge Protective Device (SPD) required

NOTE: New requirement under NEC 2020 code as adopted by 8th Edition (2023) FBC Please acknowledge on the electrical riser that a surge protection device will be installed The SPD shall be a Type 1 or Type 2 SPD (230.67(C))

5 Electrical Accepted

Robert Smith
Robert Smith

E-1

Yes

NFPA 70 / NEC 2020 Article 230.67 Surge Protection

Last response: I will make sure this is added to the electrical riser and on the plans

PLUMB - Sanitary Riser Required

- No sanitary riser submitted.
- Sanitary riser is a schematic depicting the proposed location and size of all sanitary drainage piping, fixture locations, cleanouts and vents

4 Plumbing Accepted

Robert Smith
Robert Smith

Yes

8th Edition (2023) FBC Plumbing Chapter 7

8th Edition (2023) FBC Residential 107.2.1 / P3005 / P3113.1

Last response: Plumbing page added to plans

MECH - Energy Calculations Required Show Climate Zone 1, needs to be Climate zone 2

- shows wrong address located in Palm Beach County
- needs to be climate zone 2.
- reSubmit 1 copy of Energy Calculations Form must be 402/405 signed by preparer

3 Mechanical Accepted

COREY
BENER
CLCS
(1).pdf

Robert Smith
Robert Smith

Yes

8th Edition (2023) FBC Energy Conservation Appendix C Forms
NOTE: Design Location should be West Palm Beach
NOTE: Climate Zone 2 required for Martin County

8th Edition (2023) FBC Energy Conservation

Last response: Address and climate zone were revised and resigned.

Flood protection

The construction plans have an address listed for a property in West Palm Beach. Provide a revised plan set reflecting the correct site address.

The Engineer's digital signature and seal are not valid. Signing and Sealing of Engineered documents must follow Florida Statute 471.025.

2 Floodplain Administration Accepted

Christine Madsen
Christine Madsen

Yes

Last comment from reviewer: This property lies within a Special Flood Hazard Area having a Base Flood Elevation of 6 feet NAVD88. The applicant proposes to construct the new structure with a minimum finished floor elevation of 9.14 feet NAVD88 (10' - 4" step - 6.25" slope) in the attached garage, the lowest elevation, which is more than one foot above the Base Flood Elevation for the Special Flood Hazard Area. All mechanical equipment must be set above elevation 7 feet NAVD88.

No	Discipline	Status	Details	Exhibit B	Attached To	Created By	Last Updated By	Modifications Required
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Last response: Engineer resealed with corrected address and proper seal

Driveway Requirements

A driveway site plan must be submitted with the following information:

- Annotate on the plan what Martin County Standard Detail for driveways is being used R-91A or R-91B for reference. When using R-91A, R-35 needs to be followed as well.
- Proposed material shall be provided.
- Provide existing and proposed elevations.
- Cross section detailed with elevations where the driveway crosses a roadside swale or driveway culvert.
- Existing roadside drainage shall not be blocked.
- If the roadside swales do not exist, the driveway shall be graded to provide for a minimum of 0.2-foot fall, seven (7) feet from the edge of the pavement.
- The maximum change in grade for a single-family home on a local street cannot exceed 10%, unless approved by the County Engineer.
- Driveway Width's must be shown. (Maximum of 30 feet at the property line including one or two driveways).

1 Driveway Answered

Peter Bernalski
Cory Beaton
Yes

For driveways following R-91A, the following additional information is needed:

- Proposed invert elevations of the driveway culvert must be shown.
- Sizes and invert elevations of neighboring driveway culverts (upstream and downstream) must be shown.
- Pipe size of the culvert must be a minimum of 15-inches or match the pipe sizes of the neighboring driveway culverts (whichever is greater).

Last comment from reviewer: The portion of the driveway that will be in the Right of Way needs to comply with Martin County standards.
Please review the list of issues above for county standards.

Last response: Current driveway actively complies with and will continue to comply with all Martin County standards.



Recorded in Martin County, FL 12/26/2023 9:37 AM
Carolyn Timmann, Clerk of the Circuit Court & Comptroller
Rec Fees: \$18.50 Deed Tax: \$9,100.00
CFN#3050937 BK 3412 PG 2996 PAGE 1 of 2

Exhibit D

Prepared By:

Cynthia J. Jackson, Esquire
Scott, Harris, Bryan, Barra
& Jorgensen, P.A.
4400 PGA Boulevard, Suite 603
Palm Beach Gardens, Florida 33410
File #97160

Property Control No. 21-40-42-001-000-00011-00000

WARRANTY DEED

THIS WARRANTY DEED, made this 22nd day of December, 2023, between **Apple Tree LLC**, a Florida limited liability company, hereinafter called the Grantor, whose mailing address is **One Town Center Road, Suite 400, Boca Raton, Florida 33486**, to **Cory James Beaton**, a single person, hereinafter called the Grantee, whose mailing address is 13633 83rd Lane North, West Palm Beach, Florida 33412

(Wherever used herein the terms "**Grantor**" and "**Grantee**" are used for singular or plural, as context requires and include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations and other business entities.)

WITNESSETH, that the said Grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00) and other good and valuable consideration, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirm unto the Grantee, all that certain land situate in the County of Martin, State of Florida, to-wit:

A Portion of Lot 1, RIVERS EDGE, an unrecorded Subdivision of Martin County, Florida, more particularly described as follows:

From the Southeast quarter corner of the Northeast quarter of Section 21, Township 40 South, Range 42 East, Martin County, Florida; Thence North along the East line of the said Northeast quarter of Section 21 (Said line also being the West right of way line of Jupiter Road), 596.81 feet to the intersection with a line 30.00 feet North of and parallel to the South line of Said Lot 1 of RIVERS EDGE, Said point being the Point of Beginning; Thence continue North along said East line, 401.51 feet to the North line of said Lot 1 of RIVERS EDGE; Thence North 55 degrees 42'13" West along said North line 262.67 feet to the intersection with a line 217.00 feet West of and parallel to Said East line of the Northeast quarter of Section 21; Thence South along said parallel line 405.76 feet to the intersection with said line being 30.00 feet North of and parallel to the South line of Lot 1 of RIVERS EDGE; thence South 56 degrees 28'35" East along said parallel line 260.30 feet to the Point of beginning.

SUBJECT TO: (a) real estate taxes and assessments for 2024 and subsequent years, which are not yet due and payable; (b) all applicable laws, ordinances, and governmental regulations, including without limitation, zoning and building codes and ordinances; and (c) conditions, restrictions, reservations, covenants, and easements of record, if any,

CFN#3050937 BK 3412 PG 2997 PAGE 2 of 2

Exhibit D

common to the subdivision, provided, however, this reference shall not serve to re-impose same.

TOGETHER with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

TO HAVE AND TO HOLD, the same in fee simple forever.

AND the said Grantor does hereby fully warrant title to said land, and will defend the same against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, the said Grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in the presence of:

Apple Tree LLC, a Florida limited liability Company

By Isha Price

Isha Price
Its: Manager

of 12 SE 7th Street, Suite 820

Fort Lauderdale, FL 33301

of 12 SE 7th street, Suite 820

Fort Lauderdale, FL 33301

Christian M. Sarceno Robles
Witness

Christian M. Sarceno Robles

(Print Name)

Cameron Nathan

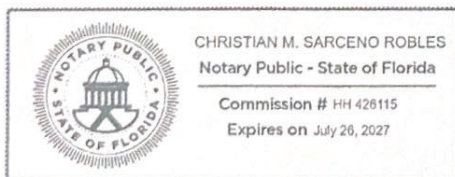
Witness

Cameron Nathan

(Print Name)

STATE OF Florida
COUNTY OF Broward

Sworn to (or affirmed) and subscribed before me by means of ☐ physical presence or ☒ online notarization, this 22nd day of December, 2023, by Isha Price as Manager of Apple Tree LLC., who is ☐ personally known to me or who has ☒ produced US passport as identification.



NOTARY PUBLIC

Christian M. Sarceno Robles

Christian M. Sarceno Robles

(Print Name)

My Commission Expires: 07/26/2027

Commission No.: HH 426115

Notarized online using audio-video communication

PROPERTY
CORNER FALLS
IN WATER

LOKAHA TCHIE RIVER
WATERWAY

LEGAL DESCRIPTION

A PORTION OF LOT 1, RIVERS EDGE, AN UNRECORDED SUBDIVISION OF MARTIN COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

PARTICULARLY DESCRIBED AS FOLLOWS

FROM THE SOUTHEAST QUARTER CORNER OF THE NORTHEAST QUARTER OF SECTION 21, TOWNSHIP 40 SOUTH, RANGE 42 EAST, MARTIN COUNTY, ILLINOIS, THENCE NORTH ALONG THE EAST

LINE OF THE SAID NORTHEAST QUARTER OF SECTION 21 (SAID

LINE ALSO BEING THE WEST RIGHT-OF-WAY LINE OF JUPITER ROAD), 596.81 FEET TO THE INTERSECTION WITH A LINE 30.00

FEET NORTH OF AN PARALLEL TO THE SOUTH LINE OF SAID LOT
THE RIVERS EDGE SAID POINT BEING THE POINT OF BEGINNING

THENCE CONTINUE NORTH ALONG SAID EAST LINE 401.51 FEET

TO THE NORTH LINE OF SAID LOT 1 OF RIVERS EDGE; THENCE
NORTH 55°42'13" WEST ALONG SAID NORTH LINE 262.67 FEET TO

THE INTERSECTION WITH A LINE 217.00 FEET WEST OF AND PARALLEL TO SAID EAST LINE OF THE NORTH-EAST QUARTER OF

SECTION 21; THENCE SOUTH ALONG SAID PARALLEL LINE 405.76

FEET TO THE INTERSECTION WITH SAID LINE BEING 30.00 FEET NORTH OF AND PARALLEL TO THE SOUTH LINE OF LOT 1 OF

RIVERS EDGE; THENCE SOUTH 56°28'35" EAST ALONG SAID PARALLEL LINE 260.20 FEET TO THE POINT OF BEGINNING.

TRAVELLED LINE 200.50 FEET TO THE POINT OF BEGINNING.

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

FOUND S.E. MERRITT WAY FOUND 69 511 CALN
PONDIX PONDIX
ID # 2028 30th RIGHT OF WAY

LOT 16 LOT 17 LOT 18

(P.11P6.40)

(P.11P6.40)

(P.11P6.40)

1000

FLOOD ZONE: X/AE(NAVD88)
COMMUNITY NUMBER: 420164

COMMUNITY NUMBER: 120101
PANEL: 12085C0507
SLEEVE: C

SOFTEN: 5
BASE FLOOD ELEVATION: 5
FIRM DATE: 2/4/2015

FIRM DATE: 3/16/2015
FIRM EFFECT/REV DATE: 3/16/2015

NOTES:

1. LEGAL DESCRIPTION PROVIDED BY CLIENT
2. NO SEARCH OF THE PUBLIC RECORD FOR THE PURPOSE OF ABSTRACT

3. NO SURFACE IMPROVEMENTS WERE LOCATED AS PART OF THIS SURVEY.

4. ALL ANGLES OR BEARINGS AND DISTANCES SHOWN HEREON ARE BOTH
AND MEASURED UNLESS OTHERWISE NOTED

9. SOME FEATURES MAY NOT BE AT SCALE IN ORDER TO SHOW DETAIL.

VICINITY MAP
NOT TO SCALE

LEGEND

BOUNDARY SURVEY OF
XXX S.E. LOXAHATCHEE RIVER ROAD
JUPITER, FL. 33458

PREPARED FOR:
ANTHONY LEMBKE

6250 N. MILITARY TRAIL
SUITE 102
ST PALM BEACH, FL 33407
PHONE: 561.640.4300
FAX: 561.640.0576

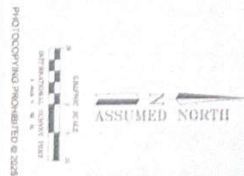
LB #7463

Rev	Revision/issue	Date

Project	Sheet
C-13057	
Date	
12/02/2015	1 of 1
Scale	
1"=40'	

COMPASS SURVEYING
6250 N. MI
WEST PALM BE
PHO
F.
WWW.COMPASSSURVEYING.NET

PHOTOCOPIING PROHIBITED © 2025



LEGAL DESCRIPTION (As furnished by client)

A HISTORY OF CONTEMPORARY LITERATURE IN THE UNITED STATES OF AMERICA

CHRISTOPHER R GAILEY
Digitally signed by CHRISTOPHER R GAILEY
Date: 2025.09.30 12:46:06 -04:00

[illegible][illegible]

Re: SE Loxahatchee River Road

Exhibit F

From: Triangle Land Surveying, Inc. (triangle2992@gmail.com)

To: cbeaton87@aol.com

Date: Monday, October 6, 2025 at 08:08 AM EDT

To Whom It May Concern,

My name is Christopher Gailey, LS 7405. At the request of my client, Cory Beaton, Triangle Land Surveying, Inc., has conducted a boundary survey and subsequent site plan for Mr. Beaton for the purpose of constructing a single family dwelling located SE Loxahatchee River Road. Triangle Land Surveying, Inc. job #25873. The boundary survey was based upon the legal description recorded within the Martin County Public records. A copy of this legal description will be shown below the body of this email for reference. This legal description was recorded as a Metes and Bounds legal description. The Metes and Bounds legal description consisted of legal calls utilizing bearings and distances to describe a specific and unique boundary. The gross land area within the boundary lines of Mr. Beaton's property is 87588.85 square feet or 2.011+/- acres. If you have any questions, I can be reached at 561-798-3966. Thank you.

Sincerely,

Christopher Gailey,
President - Triangle Land Surveying, Inc.
LS 7405
C.E.H.P. 23-2907

LEGAL DESCRIPTION:

A PORTION OF LOT 1, RIVERS EDGE, AN UNRECORDED SUBDIVISION OF MARTIN COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

FROM THE SOUTHEAST QUARTER CORNER OF THE NORTHEAST QUARTER OF SECTION 21, TOWNSHIP 40 SOUTH, RANGE 42 EAST, MARTIN COUNTY, FLORIDA; THENCE NORTH ALONG THE EAST LINE OF THE SAID NORTHEAST QUARTER OF SECTION 21 (SAID LINE ALSO BEING THE WEST RIGHT-OF-WAY LINE OF JUPITER ROAD), 596.81 FEET TO THE INTERSECTION WITH A LINE 30.00 FEET NORTH OF AND PARALLEL TO THE SOUTH LINE OF SAID LOT 1 OF RIVERS EDGE, SAID POINT BEING THE POINT OF BEGINNING; THENCE CONTINUE NORTH ALONG SAID EAST LINE, 401.51 FEET TO THE NORTH LINE OF SAID LOT 1 OF RIVERS EDGE; THENCE NORTH 55°42'13" WEST ALONG SAID NORTH LINE 262.67 FEET TO THE INTERSECTION WITH A LINE 217.00 FEET WEST OF AND PARALLEL TO SAID EAST LINE OF THE NORTHEAST QUARTER OF SECTION 21; THENCE SOUTH ALONG SAID PARALLEL LINE 405.76 FEET TO THE INTERSECTION WITH SAID LINE BEING 30.00 FEET NORTH OF PARALLEL TO THE SOUTH LINE OF LOT 1 OF RIVERS EDGE; THENCE SOUTH 56°28'35" EAST ALONG SAID PARALLEL LINE 260.30 FEET TO THE POINT OF BEGINNING.

Triangle Land Surveying, Inc.
4750 Royal Palm Beach Blvd.
West Palm Beach, FL 33411
L.B. 2992
Office 561-798-3966
triangle2992@gmail.com

Triangle Testing Lab, Inc.
4750 Royal Palm Beach Blvd.
West Palm Beach, FL 33411
C.O.A. 31012
Office 561-790-3049
triangle2992@gmail.com

Exhibit G

113280

WARRANTY DEED FROM INDIVIDUAL TO CORPORATION

Vol 173 PAGE 131

And for sale to the R. & W. S. Rice Company Jacksonville, Florida

This Warranty Deed Made the 8th day of March A.D. 1966 by JEROME R. VANDE WEGHE and ADELAIDE G. VANDE WEGHE, his wife hereinafter called the grantor, to TIDEWATER EQUIPMENT CO., INC, a corporation existing under the laws of the State of Maryland with its permanent postoffice address at 6120 East Bourne Avenue, Baltimore, Maryland hereinafter called the grantee:

(Wherever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witnesseth: That the grantor, for and in consideration of the sum of \$ 10.00 and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, alien, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Palm Beach County, Florida, viz:

Lot 1 of RIVERS EDGE, an unrecorded subdivision of Martin County, Florida, more particularly described as follows:

From the Southeast Quarter Corner of the Northeast Quarter of Section 21, Township 40 South, Range 42 East, Martin County, Florida; thence North along the East line of the said Northeast Quarter of Section 21 aforesaid (said line also being the West right-of-way line of Jupiter Road), a distance of 560.82 feet to the Point of Beginning; thence continue North along the said East line a distance of 437.50 feet to a point; thence North 55°42'13" West a distance of 461.74 feet to a point in the center line of a 40 foot waterway; thence Westerly and Southerly along the arc of a curve concave to the Southeast, having a radius of 126.80 feet and a central angle of 15°17'47", a distance of 33.85 feet to a point of reverse curve; thence Southerly and Westerly along the arc of a curve concave to the Northwest, having a radius of 160.00 feet and a central angle of 30°00'00", a distance of

(description continued on reverse side hereof)

Together with all the tenements, hereditaments and appurtenances thereto belonging or in any wise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 1965.

In Witness Whereof, the said grantor has hereunto set hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

Marian M. Cammell
Margaret D. Tucker

Jerome R. Vande Weghe
Adelaide G. Vande Weghe

STATE OF FLORIDA,
COUNTY OF PALM BEACH

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State aforesaid and in the County aforesaid to take acknowledgments, personally appeared JEROME R. VANDE WEGHE and ADELAIDE G. VANDE WEGHE, his wife, to me known to be the person or persons described in and who executed the foregoing instrument and they acknowledged before me that they executed the same.

WITNESS my hand and official seal in the County and State last aforesaid this 8th day of March, A.D. 1966.



Marian M. Cammell
Notary Public, State of Florida at Large

My commission expires: 1/13/69

Exhibit G

83.78 feet to a point; thence South $49^{\circ}00'00''$ West a distance of 112.00 feet to a point of curve; thence Westerly and Southerly along the arc of a curve concave to the Southeast, having a radius of 230.00 feet and a central angle of $37^{\circ}15'00''$, a distance of 149.53 feet to a point, thence South $56^{\circ}28'35''$ East a distance of 721.78 feet to the Point of Beginning, all lying and being in Martin County, Florida, and containing in all 5.03 Acres, more or less.

Together with perpetual right of ingress and egress for waterway purposes over and across a parcel, 40 feet in width, lying 20 feet each side of the following described centerline in Rivers Edge Waterway, to-wit:

J R 173 P. 132
BOOK

From the Southwest corner of Government Lot 1, Section 21, Township 40 South, Range 42 East, Martin County, Florida; thence North $0^{\circ}08'46''$ East along the West line of said Government Lot 1 a distance of 492.22 feet to a point; thence North $89^{\circ}54'11''$ East a distance of 1440.72 feet to a point; thence South $55^{\circ}42'13''$ East a distance of 988.74 feet to a point; and the Beginning of the herein described centerline; thence Westerly and Southerly along the arc of a curve, concave in the Southeast, having a radius of 126.80 feet, and a central angle of $15^{\circ}17'47''$ a distance of 33.85 feet to a point; thence Southerly and Westerly along the arc of a curve, concave to the Northwest, having a radius of 160.0 feet and a central angle of $30^{\circ}00'00''$ a distance of 83.78 feet to a point; thence South $49^{\circ}00'00''$ West a distance of 112.00 feet to a point; thence Westerly and Southerly along the arc of a curve, concave to the Southeast, having a radius of 230.0 feet and a central angle of $37^{\circ}15'00''$ a distance of 149.53 feet to a point; thence South $11^{\circ}45'00''$ West a distance of 240.0 feet to a point; thence Southerly and Westerly along the arc of a curve, concave to the Northwest, having a radius of 57.55 feet and a central angle of $105^{\circ}00'00''$ a distance of 105.47 feet to a point; thence North $63^{\circ}15'00''$ West a distance of 130.0 feet to a point; thence Westerly along the arc of a curve, concave to the South, having a radius of 50.0 feet and a central angle of $63^{\circ}36'45''$ a distance of 55.51 feet to a point.

18-211 The W. & E. Edge Company, Jackson, Mo., 1944



Warranty Deed
FROM MORTGAGE TO CONVEYANCE

DEED, BOOK 8, P. 34

FILED & RECORDED
IN MARTIN COUNTY, FLA.
1966 MAR -9 AM 9:19
DEED BY DEED
C. J. J. J.



Exhibit 6

MARTIN COUNTY
CLERK OF CIRCUIT COURT
MARTIN CO., FL

RECORDED & VERIFIED
BY D.C.

01406212

99 DEC 15 AM 10:30

Prepared by and return to:

L. Frank Chopin, Esquire
CHOPIN & MILLER
440 Royal Palm Way, Suite 200
Palm Beach, Florida 33480

DOC-DEED \$ 8482.50 MARSHA STILLER
DOC-MTS \$ _____ MARTIN COUNTY
DOC-ASM \$ _____ CLERK OF CIRCUIT COURT
INT. TAX \$ _____ BY CAF D.C.

Parcel No. 21-40-42-001-000-0001.0-10000

WARRANTY DEED

THIS WARRANTY DEED is made and executed this 7th day of December, 1999, by JON HART POLLACK, as Trustee of The Roselee H. Pollack Personal Residence Trust, ("Grantor"), whose address is 320 Sweet Bay Circle, Jupiter, Florida 33458, to DAVID R. PLATZ and KATHERINE W. PLATZ, his wife, ("Grantees"), whose address is 18300 Southeast Loxahatchee River Road, Jupiter, Florida 33458.

W I T N E S S E T H

That the Grantor, for and in consideration of the sum of \$10.00 and other valuable consideration, receipt whereof is hereby acknowledged, by these presents does hereby grant, bargain, sell, alien, remise, release, convey and confirm unto the Grantees, all that certain land situate in Martin County, Florida, described as follows:

See Attached Exhibit A

TOGETHER with all and singular the tenements, hereditaments, and appurtenances belonging to or in any way appertaining to that real property.

TO HAVE AND TO HOLD, the same in fee simple forever.

AND the Grantor hereby covenants with the Grantees that he, as Trustee, is lawfully seized of said land in fee simple; that he, as Trustee, has good right and lawful authority to sell and convey said land; that he, as Trustee, hereby fully warrants the title to the land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except for covenants, reservations, restrictions and easements of record, which are not reimposed by reference thereto, and real

Exhibit 6

estate taxes for 1999 and subsequent years.

IN WITNESS WHEREOF, Grantor has executed this Warranty Deed on this 7th day of December, 1999.

Signed, sealed and delivered in the presence of us:

THE ROSELEE H. POLLACK
PERSONAL RESIDENCE TRUST

John Shaw
Witness
(print name) John Shaw

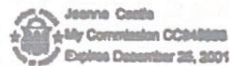
By: [Signature]
JON HART POLLACK,
As Trustee

Joshua R. Payne
Witness
(print name) Joshua R. Payne

STATE OF FLORIDA)
COUNTY OF PALM BEACH) ss:

Sworn to, subscribed and acknowledged before me this 7th day of December, 1999, by JON HART POLLACK, as Trustee of The Roselee H. Pollack Personal Residence Trust.

My commission expires:



Joanne Castle
(signature of notary)

(printed name of notary)

Personally Known [☒] Or Produced Identification [☐]
Type of Identification Produced: _____

Exhibit G

EXHIBIT A

LEGAL DESCRIPTION

Lot 1 of RIVERS EDGE, an unrecorded subdivision of Martin County, Florida, more particularly described as follows:

From the Southeast Quarter Corner of the Northeast Quarter of Section 21, Township 40 South, Range 42 East, Martin County, Florida; thence North along the East line of the said Northeast Quarter of Section 21 aforesaid (said line also being the West right-of-way line of Jupiter Road), a distance of 561.89 feet to the Point of Beginning; thence continue North along the said East line a distance of 437.50 feet to a point; thence North $55^{\circ}42'13''$ West a distance of 461.74 feet to a point in the center line of a 40 foot waterway; thence Westerly and Southerly along the arc of a curve, concave to the Southeast, having a radius of 126.80 feet and a central angle of $15^{\circ}17'47''$, a distance of 33.85 feet to a point of reverse curve; thence Southerly and Westerly along the arc of a curve concave to the Northwest, having a radius of 160.00 feet and a central angle of $30^{\circ}00'00''$, a distance of 83.78 feet to a point; thence South $49^{\circ}00'00''$ West a distance of 112.00 feet to a point of curve; thence Westerly and Southerly along the arc of a curve concave to the Southeast, having a radius of 230.00 feet and a central angle of $37^{\circ}15'00''$, a distance of 149.53 feet to a point; thence South $56^{\circ}28'35''$ East a distance of 721.78 feet to the Point of Beginning, all lying and being in Martin County, Florida, and containing in all 5.03 Acres, more or less.

Together with perpetual right of ingress and egress for waterway purposes over and across a parcel, 40 feet in width, lying 20 feet each side of the following described centerline in Rivers Edge Waterway, to-wit:

From the Southwest corner of Government Lot 1, Section 21, Township 40 South, Range 42 East, Martin County, Florida; thence North $0^{\circ}08'46''$ East along the West line of said Government Lot 1 a distance of 492.22 feet to a point; thence North $89^{\circ}56'11''$ East a distance of 1440.72 feet to a point; thence South $55^{\circ}42'13''$ East a distance of 988.74 feet to a point; and the Beginning of the herein described centerline; thence Westerly and Southerly along the arc of a curve concave to the Southeast, having a radius of 126.80 feet, and a central angle of $15^{\circ}17'47''$, a distance of 33.85 feet to a point; thence Southerly and Westerly along the arc of a curve, concave to the Northwest, having a radius of 160.0 feet and a central angle of $30^{\circ}00'00''$, a distance of 83.78 feet to a point; thence South $49^{\circ}00'00''$ West a distance of 112.0 feet to a point; thence Westerly and Southerly along the arc of a curve, concave to the Southeast, having a radius of 230.0 feet and central angle of $37^{\circ}15'00''$, a distance of 149.53 feet to a point; thence South $11^{\circ}43'00''$ West a distance of 240.0 feet to a point; thence Southerly and Westerly along the arc of a curve, concave to the Northwest, having a radius of 57.55 feet and a central angle of $105^{\circ}00'00''$, a distance of 105.47 feet to a point; thence North $63^{\circ}15'00''$ West a distance of 130.0 feet to a point; thence Westerly along the arc of a curve, concave to the South, having a radius of 50.0 feet and a central angle of $63^{\circ}36'45''$, a distance of 55.51 feet to a point.

Together with an easement for ingress and egress over and across a parcel of land in Section 21, Township 40 South, Range 42 East, Martin County, Florida, being more particularly described as follows:

From the Southeast corner of the Northeast Quarter of said Section 21, bear North along the East line of said Northeast Quarter of Section 21, a distance of 561.89 feet to the Point of Beginning; (said point also being the Southeast corner of Lot 1, of the unrecorded plat of the Rivers Edge); thence continue North along said East line a distance of 35.99 feet; thence bear N $56^{\circ}28'35''$ W, a distance of 260.30 feet; thence bear South a distance of 35.99 feet; thence bear S $56^{\circ}28'35''$ E, along the South line of said Lot 1, a distance of 260.30 feet to the Point of Beginning.

Exhibit 6

LEGAL DESCRIPTION

A PORTION OF LOT 1 OF RIVERS EDGE, AN UNRECORDED SUBDIVISION OF MARTIN COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

FROM THE SOUTHEAST QUARTER CORNER OF THE NORTHEAST QUARTER OF SECTION 21, TOWNSHIP 40 SOUTH, RANGE 42 EAST, MARTIN COUNTY, FLORIDA; THENCE NORTH ALONG THE EAST LINE OF THE SAID NORTHEAST QUARTER OF SECTION 21 (SAID LINE ALSO BEING THE WEST RIGHT-OF-WAY LINE OF JUPITER ROAD), 596.81 FEET TO THE INTERSECTION WITH A LINE 30.00 FEET NORTH OF AND PARALLEL TO THE SOUTH LINE OF SAID LOT 1 OF RIVERS EDGE, SAID POINT BEING THE POINT OF BEGINNING; THENCE CONTINUE NORTH ALONG SAID EAST LINE, 401.51 FEET TO THE NORTH LINE OF SAID LOT 1 OF RIVERS EDGE; THENCE N55°42'13"W ALONG SAID NORTH LINE, 262.67 FEET TO THE INTERSECTION WITH A LINE 217.00 FEET WEST OF AND PARALLEL TO SAID EAST LINE OF THE NORTHEAST QUARTER OF SECTION 21; THENCE SOUTH ALONG SAID PARALLEL LINE, 405.76 FEET TO THE INTERSECTION WITH SAID LINE BEING 30.00 FEET NORTH OF AND PARALLEL TO THE SOUTH LINE OF LOT 1 OF RIVERS EDGE; THENCE S56°28'35"E ALONG SAID PARALLEL LINE, 250.30 FEET TO THE POINT OF BEGINNING.

< BACK TO SEARCH

Exhibit H

Basic Info

PIN 21-40-42-001-000-00011-0	AIN 138994	Situs Address SE LOXAHATCHEE RIVER RD JUPITER FL	Website Updated 7/10/26
--	----------------------	--	-----------------------------------

General Information

CHANGE MAILING ADDRESS

SIGN UP FOR PROPERTY FRAUD ALERT

Property Owners BEATON CORY JAMES	Parcel ID 21-40-42-001-000-00011-0	Use Code/Property Class 6700 - 6700 Poultry Bees TropFish etc
Mailing Address 11384 52ND RD N ROYAL PALM BEACH FL 33411	Account Number 138994	Neighborhood 895200 Rivers Edge
Tax District DISTRICT THREE MSTU	Property Address SE LOXAHATCHEE RIVER RD JUPITER FL	Legal Acres 2
	Legal Description A PORTION OF LOT 1 RIVERS EDGE, AN UNREC...	Ag Use Size (Acre\Sq Ft) 2

Current Value

Year	Land Value	Improvement Value	Market Value	Value Not Taxed	Assessed Value	Total County Exemptions	County Taxable Value
2025	\$ 1,100,000	\$ 0	\$ 1,100,000	\$ 1,096,400	\$ 3,600	\$ 0	\$ 3,600

Market values shown on the website reflect market conditions as of January 1st, the statutory assessment date. We are prohibited by law from relying on sales that occur after the January 1 assessment date. Therefore, market values shown on the website do not reflect today's market conditions, but rather the market conditions last year. In addition, the statutes require the county Property Appraiser to deduct for typical costs of sale (which include expenses such as commissions, title insurance, appraisals, inspection fees, etc.) when arriving at market value for tax purposes. That is why the market value for tax purposes is different from what a property would sell for today.

Current Sale

Sale Date 12/22/23	Grantor (Seller) APPLE TREE LLC	Doc Num 3050937
Sale Price \$ 1,300,000	Deed Type Warranty Deed	Book & Page <u>3412 2996</u>



Legal Description

Exhibit H

A PORTION OF LOT 1 RIVERS EDGE, AN UNRECORDED S/D IN MARTIN CO AS FOLLOWS: FROM THE SE 1/4 CORNER OF THE NE 1/4 OF SEC 21-40-42; THEN N ALONG THE E LINE OF THE NE 1/4 OF SEC 21 ALSO BEING THE W ROW LINE OF JUPITER RD FOR 596.81' TO THE INTERSECTION WITH A LINE 30.00' N OF AND PARALLEL TO THE S LINE OF LOT 1 OF RIVERS EDGE AND THE POB; THEN N ALONG THE E LINE FOR 401.51' TO THE N LINE OF LOT 1 OF RIVERS EDGE; THEN NW ALONG THE N LINE FOR 262.67' TO THE INTERSECTION WITH A LINE 217.00' W OF AND PARALLEL TO THE E LINE OF THE NE 1/4 OF SEC 21; THEN S ALONG THE PARALLEL LINE FOR 405.76' TO THE INTERSECTION WITH A LINE 30.00' N OF AND PARALLEL TO THE S LINE OF LOT 1 RIVERS EDGE; THEN SE ALONG THE PARALLEL LINE FOR 260.30' TO THE POB

The legal description is intended for general information only. The Property Appraiser assumes no responsibility for the uses or interpretations of the legal description.



Value History

Exhibit I

PIN	AIN	Situs Address	Website Updated
21-40-42-001-000-00011-0	138994	SE LOXAHATCHEE RIVER RD JUPITER FL	7/10/26

Year	Land Value	Improvement Value	Market Value	Value Not Taxed	Assessed Value	County Exemptions	County Taxable Value
2025	\$ 1,100,000	\$ 0	\$ 1,100,000	\$ 1,096,400	\$ 3,600	\$ 0	\$ 3,600
2024	\$ 1,100,000	\$ 0	\$ 1,100,000	\$ 1,099,520	\$ 480	\$ 0	\$ 480
2023	\$ 1,357,800	\$ 0	\$ 1,357,800	\$ 337,589	\$ 1,020,211	\$ 0	\$ 1,020,211
2022	\$ 1,264,730	\$ 0	\$ 1,264,730	\$ 337,265	\$ 927,465	\$ 0	\$ 927,465
2021	\$ 876,000	\$ 0	\$ 876,000	\$ 32,850	\$ 843,150	\$ 0	\$ 843,150
2020	\$ 766,500	\$ 0	\$ 766,500	\$ 0	\$ 766,500	\$ 0	\$ 766,500
2019	\$ 766,500	\$ 0	\$ 766,500	\$ 0	\$ 766,500	\$ 0	\$ 766,500
2018	\$ 766,500	\$ 0	\$ 766,500	\$ 0	\$ 766,500	\$ 0	\$ 766,500
2017	\$ 935,220	\$ 0	\$ 935,220	\$ 166,450	\$ 768,770	\$ 0	\$ 768,770
2016	\$ 935,220	\$ 0	\$ 935,220	\$ 236,338	\$ 698,882	\$ 0	\$ 698,882
2015	\$ 935,220	\$ 0	\$ 935,220	\$ 299,873	\$ 635,347	\$ 0	\$ 635,347

\$ 269,000 Collected in property tax over the last 25 years.

WARNING: Significant tax increases often occur when sold. The Taxable Value and Taxes, noted above, may reflect exemptions, classifications and value limitations that will be removed at the time of sale. Homestead exemptions, agricultural classifications, and assessed value limitations are NOT transferable to the new owner. Following a sale, a property's assessed value is reset to the market value & the new owner must reapply for homestead exemption & agricultural classification.



26ga (min) **SNAPMAX** over 15/32" (min) plywood



Extreme Metal Fabricators
2160 SW Poma Dr | Palm City FL 34990

Product Description

Nailstrip, snaplock style panel with a 16" maximum panel width and a nominal rib height of 1"

Product Material

26ga (min) steel

Corrosion resistant per FBC 1507.4.3 where required

Fastener

#10 x 1-inch pancake style fastener

Compliant with FBC 1506.6 where required.

Substrate/Deck

15/32" (min) plywood or

3/4" (min) thick wood plank (min S.G. of 0.42)

Evaluated by:

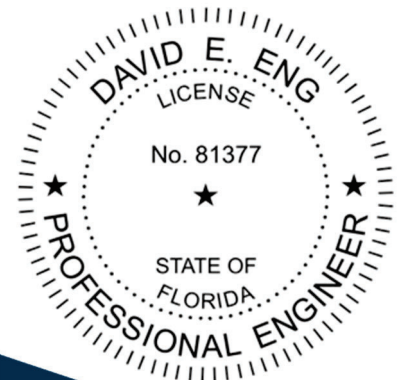
David Eng, PE

Timberlake Cove, LLC

1317 Edgewater Dr, Ste 2339 | Orlando FL

FL PE 81377 | FL CA 33344

www.TimberLakeCove.com



SNAPMAX

1" Nail Strip Snap Lock Standing Seam

This item has been digitally signed and sealed by D.E. Eng, PE, on the date indicated. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

Underlayment: Comply with local building code or FBC 1507.1.1 where required.

Slope: Comply with local building code or FBC 1507.4.2 where required. FBC 1507.4.2 minimum slope is 1/4:12.

Re-Roofing: This panel may be installed over a single layer of existing shingles as permitted by local building code or FBC 1511, provided the existing roof meets the conditions required by the applicable code.

Technical Documentation:

This product has been tested to the UL 580 standard by Architectural Testing (now Intertek Testing, TST-1527), report D8133.01-450-18, as referenced in FL 17022.05-R7.

Compliance Statement:

This product as described has demonstrated compliance with Florida Building Code 2023, 1504.3.2 (**non-HVHZ**), as required by FL Rule 61G20-3, method 1D.

This product as described has been tested and demonstrated compliance with:

- UL580 - Test for Uplift Resistance of Roof Assemblies
- UL 1897 - Uplift test for roof covering systems

Maximum Allowable Loads & Installation Requirements:

Method	Fastener Pattern	Sealant	Allowable Pressure
Method A	#10 x 1" fastener at 6" o.c.	None	-86 PSF
Method B	#10 x 1" fastener at 6" o.c.	Sealant applied to base of male leg (continuous 3/16" bead of Bostik 915 sealant or similar)	-97.25 PSF

A factor of safety of 2 has been applied.

Design Process:

Compare the maximum allowable loads on page 2 to the ASD uplift pressures for the project to determine sufficiency and installation requirements.

Alternatively, as an option, the load tables in this report provides one prescriptive option for the fastening requirement for the applicable wind loads for roofs within the parameters described.

For roofs outside of the listed parameters, design wind loads shall be determined as required by FBC 1609, ASCE 7, or other design code in force, using allowable stress. These load tables are based on ASCE 7-22. Use of these tables assumes that the structure is: Enclosed and conforms to wind-borne debris provisions and is a regular shaped building and is not subject to across-wind loading, vortex shedding, or instability; nor does it have a site location for which channeling or buffeting warrant consideration

Engineering analysis may be completed by other licensed engineers for project specific approval by local authorities having jurisdiction.

Notice to Other Entities:

This product approval applies only to metal panel products produced by Extreme Metal Fabricators. Other manufacturers, distributors, installers, engineers, architects, or other parties relying on this approval for any product not produced by Extreme Metal Fabricators assume full, strict product liability. Traceability of coil, audited quality assurance programs, and compliance with FAC 61G20-3 are solely the responsibility of the entity relying on this approval. Extreme Metal Fabricators assumes no liability for non-compliance or product performance for any product relying on this approval but not manufactured by Extreme Metal Fabricators.

Certification of Independence:

David Eng, PE and Timberlake Cove, LLC do not have, nor will acquire a financial interest in any company manufacturing or distributing products under this evaluation. The same entities do not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

Exclusions and Limitations:

Design of deck and roof structure (to include attachment of plywood or wood plank) shall be completed by others. Fire classification and shear diaphragm design are outside the scope of this evaluation. Accelerated weathering/salt spray is outside the scope of this evaluation. This report is limited to compliance with structural wind load requirements of FBC 1504.3.2, as required by Rule 61G20-3. Neither Timberlake Cove nor the manufacturer shall be responsible for any conclusions, interpretations, or designs made by others based on this evaluation report. This report is limited solely to documenting compliance with Rule 61G20-3, and makes no express or implied warranty regarding performance of this product. Installation shall be subject to the local building code and authority having jurisdiction; this report shall not be construed to supersede local codes in force.

Use of Load Tables:

These load tables are provided as a courtesy to provide *one* possible prescriptive option for a generic, typical structure without calculating the design pressures.

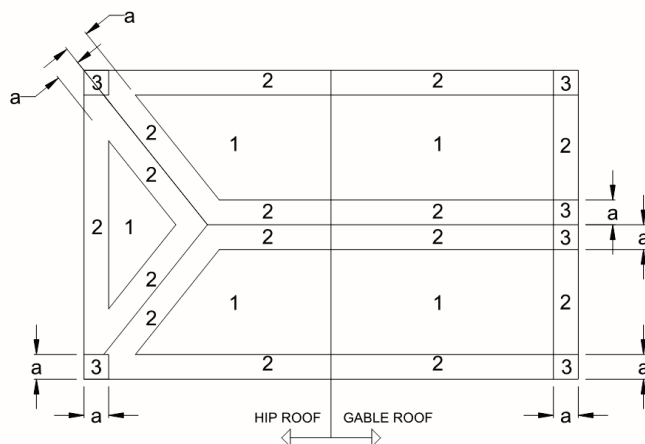
For structures outside the parameters of these load tables (e.g. height above 30 feet), calculate the required allowable design pressure and compare to the maximum allowable loads shown on page 2. These load tables shall not be construed to in any way limit the installation of this product to the cases shown.

Instructions:

Select the appropriate load table that applies to the structure in question.

Determine the design wind speed for the project location.

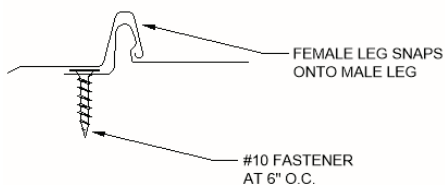
Use the attachment method indicated for that windspeed within each roof zone.



a: 10% OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZONTAL DIMENSION OR 3FT (0.9M). OR AS DETERMINED BY DESIGN OR OTHER APPLICABLE CODE.

ROOF ZONES FOR GENERIC BUILDING

METHOD A



Use this load table for structures which meet the following criteria:
Are located in **Exposure B** area
Have either a **flat roof, or gable/hip roof with max slope of 12:12**
Have a mean Roof Height of **30 feet or less**

FL25621.01: 26ga SnapMax on 15/32" plywood

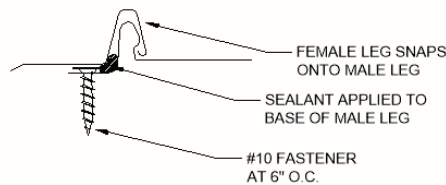
Wind	105	110	120	130	140	150	160	170	180	190	200
Zone 1:	A	A	A	A	A	A	A	A	A	A	A
Zone 2:	A	A	A	A	A	A	A	A	A	B	NR
Zone 3:	A	A	A	A	A	A	B	NR	NR	NR	NR

Use this load table for structures which meet the following criteria:
Are located in **Exposure B** area
Have either a **flat roof less than 7°, hip roof with max slope of 12:12, or gable roof with slope between 4.4:12 & 12:12**
Have a mean Roof Height of **30 feet or less**

FL25621.01: 26ga SnapMax on 15/32" plywood

Wind	105	110	120	130	140	150	160	170	180	190	200
Zone 1:	A	A	A	A	A	A	A	A	A	A	A
Zone 2:	A	A	A	A	A	A	A	A	A	B	NR
Zone 3:	A	A	A	A	A	A	B	NR	NR	NR	NR

METHOD B



Use this load table for structures which meet the following criteria:
Are located in **B, C, or D exposure** area
Have either a **flat roof, or gable/hip roof with max slope of 12:12**
Have a mean Roof Height of **30 feet or less**

FL25621.01: 26ga SnapMax on 15/32" plywood

Wind	105	110	120	130	140	150	160	170	180	190	200
Zone 1:	A	A	A	A	A	A	A	B	NR	NR	NR
Zone 2:	A	A	A	A	A	NR	NR	NR	NR	NR	NR
Zone 3:	A	A	A	B	NR	NR	NR	NR	NR	NR	NR

Use this load table for structures which meet the following criteria:
Are located in **B, C, or D exposure** area
Have either a **flat roof less than 7°, hip roof with max slope of 12:12, or gable roof with slope between 4.4:12 & 12:12**
Have a mean Roof Height of **30 feet or less**

FL25621.01: 26ga SnapMax on 15/32" plywood

Wind	105	110	120	130	140	150	160	170	180	190	200
Zone 1:	A	A	A	A	A	A	A	B	B	NR	NR
Zone 2:	A	A	A	A	A	B	NR	NR	NR	NR	NR
Zone 3:	A	A	A	B	NR	NR	NR	NR	NR	NR	NR



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/building

E.S. 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 "EL200" Aluminum Horizontal Rolling Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. **W16-86**, titled "ES-EL200 Horizontal Rolling Alum. Wdw. (L.M.I.)", sheets 1, 2, 2.1, 2.2, 3, 3.1, 3.2, 4 and 5 through 11 of 11, dated 12/19/16, with revision **E** dated 11/01/22, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision 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

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, **Barranquilla, Colombia**, model/series, and 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.

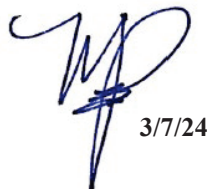
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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 **revises NOA No. 21-0608.03** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**




3/7/24

NOA No. 23-0103.02
Expiration Date: January 19, 2027
Approval Date: March 14, 2024
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

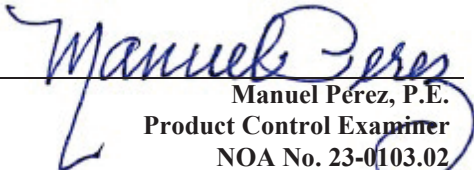
1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 16-0617.04)
2. Drawing No. **W16-86**, titled "ES-EL200 Horizontal Rolling Alum. Wdw. (L.M.I.)", sheets 1, 2, 3, 3.1, 4 and 5 through 11 of 11, dated 12/19/16, with revision **D** dated 06/22/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 20-1208.07)

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) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-11027**, dated 04/23/20, signed and sealed by Idalmis Ortega, P.E.
(Submitted under NOA No. 20-1208.07)
2. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum horizontal sliding window, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-17-007**, dated 10/24/17, and addendum letter dated 12/15/16, both signed and sealed by Constantin Bortes, P.E.
(Submitted under NOA No. 18-0221.03)
3. 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 horizontal sliding window, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-16-007**, dated 12/08/16, signed and sealed by Constantin Bortes, P.E.
(Submitted under NOA No. 16-0617.04)


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 23-0103.02
Expiration Date: January 19, 2027
Approval Date: March 14, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 5th Edition (2014), dated 06/10/15, and updated on 11/09/20 to comply with FBC 7th Edition (2020), prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 20-1208.07)
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

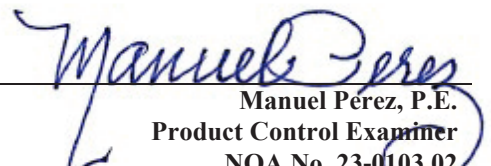
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **20-0915.19** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 11/19/20, expiring on 07/04/23.
2. Notice of Acceptance No. **20-0915.22** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 11/19/20, expiring on 07/08/24.
3. Notice of Acceptance No. **21-0216.01** issued to **Eastman Chemical Company (MA)** for their "**Saflex PVB Interlayers - Clear and Colored for Glass**" dated 04/29/21, expiring on 05/21/26.
4. Notice of Acceptance No. **20-0622.03** issued to **Eastman Chemical Company (MA)** for their "**Saflex Storm - Saflex and Saflex HP Composite Glass Interlayers with PET Core**" dated 08/06/20, expiring on 12/11/23.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)**, with **FBC 7th Edition (2020)**, and of no financial interest, dated November 9, 2020, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA's No. 20-1208.07)
2. Testing proposal issued by the Product Control Section, dated 04/15/13, signed by Jaime Gascon, P.E., Product Control Supervisor.
(Submitted under NOA's No. 20-1208.07)


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 23-0103.02
Expiration Date: January 19, 2027
Approval Date: March 14, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

F. STATEMENTS (CONTINUED)

3. Distributor Agreement signed by Carlos Garcia and by Evelyn Daes.
(Submitted under NOA No. 16-0617.04)
4. Laboratory compliance statement for Test Report No. **BT-ESW-16-007**, issued by Blackwater Testing, Inc., dated 12/08/16, signed and sealed by Constantin Bortes, P.E.
(Submitted under NOA No. 16-0617.04)
5. Proposal No. **16-1228** issued by the Product Control Section, dated 11/16/16, signed by Manuel Perez, P.E.
(Submitted under NOA No. 16-0617.04)

G. OTHERS

1. Notice of Acceptance No. **20-1208.07**, issued to E.S. Windows, LLC for their Series "EL200" Aluminum Horizontal Rolling Window – L.M.I., approved on 02/18/21 and expiring on 01/19/22.

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

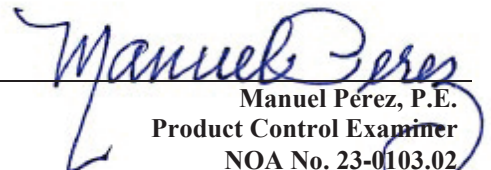
1. Drawing No. **W16-86**, titled "ES-EL200 Horizontal Rolling Alum. Wdw. (L.M.I.)", sheets 1, 2, 2.1, 2.2, 3, 3.1, 3.2, 4 and 5 through 11 of 11, dated 12/19/16, with revision E dated 11/01/22, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

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
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 horizontal sliding window, prepared by QAI Laboratories, Test Report No. **QAI-13090**, dated 10/19/22, revised on 07/21/23 and 10/03/23, signed and sealed by Idalmis Ortega, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 7th Edition (2020)**, dated 11/16/22, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 23-0103.02
Expiration Date: January 19, 2027
Approval Date: March 14, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED (CONTINUED)

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **23-0717.30** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 08/31/23, expiring on 07/04/28.
2. Notice of Acceptance No. **23-0717.28** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 08/24/23, expiring on 07/08/24.
3. Notice of Acceptance No. **23-0713.18** issued to **Eastman Chemical Company (MA)** for their “**Saflex PVB Interlayers - Clear and Colored for Glass**” dated 08/17/23, expiring on 05/21/26.
4. Notice of Acceptance No. **23-0713.21** issued to **Eastman Chemical Company (MA)** for their “**Saflex Storm - Saflex and Saflex HP Composite Glass Interlayers with PET Core**” dated 08/17/23, expiring on 12/11/28.

F. STATEMENTS

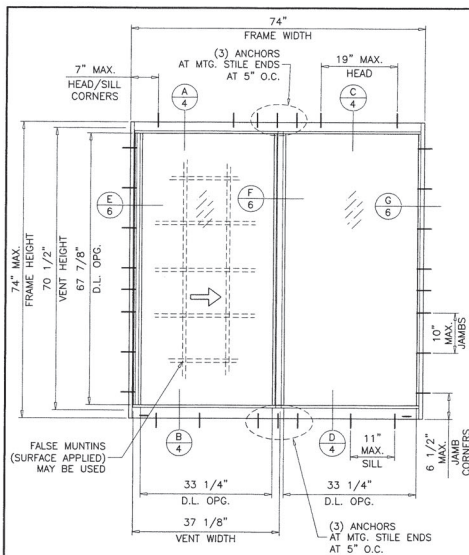
1. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, with **FBC 8th Edition (2023)**, and of no financial interest, dated July 12, 2023, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

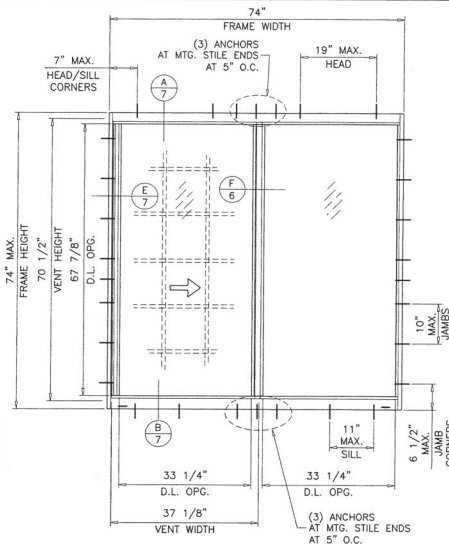
1. Notice of Acceptance No. **21-0608.03**, issued to E.S. Windows, LLC for their Series “**EL200**” Aluminum Horizontal Rolling Window – L.M.I., approved on 09/02/21 and expiring on 01/19/27.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 23-0103.02

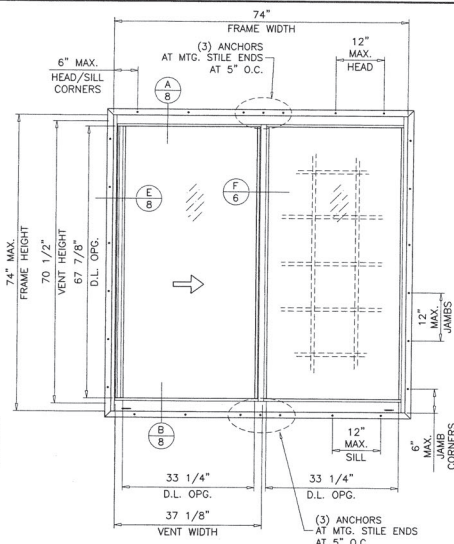
Expiration Date: January 19, 2027
Approval Date: March 14, 2024



TYPICAL ELEVATION
FLANGE FRAMES



TYPICAL ELEVATION
FLANGE FRAMES WITH FLUSH ADAPTER



TYPICAL ELEVATION
FLANGE FRAMES WITH FIN ADAPTER

ES-EL200

HORIZONTAL ROLLING ALUMINUM WINDOW (L.M.I.)

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 2.1 & 2.2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF H.R./H.R. OR HORIZONTAL ROLLING WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN.

LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION NOA WILL APPLY TO ENTIRE SYSTEM.

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 NOA 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)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

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

PRODUCT REVISED
as complying with the Florida Building Code

NOA-No. **23-0103.02**

Expiration Date: **01/19/2027**

By: *Manuel Jara*

Miami-Dade Product Control

DEC 1 2022

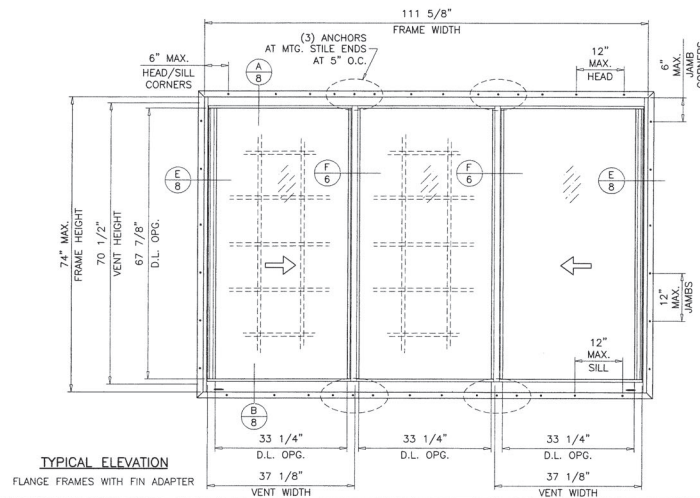
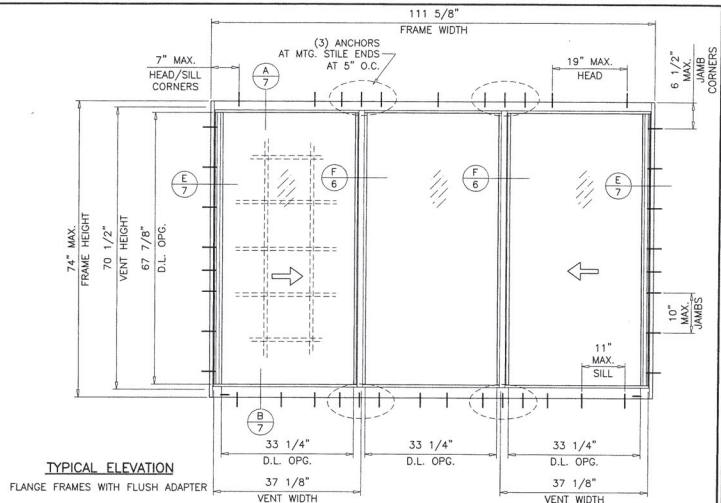
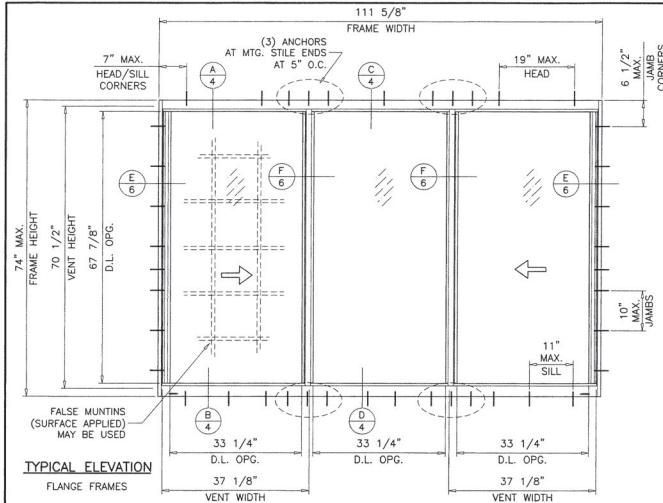


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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
3350 N.W. 49 STREET
MIAMI, FLORIDA 33142
TEL (305) 264-8100 FAX (305) 264-8978
COMP-ANL WIG-86ES

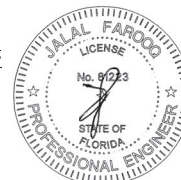
ES-EL200 HORIZONTAL ROLLING ALUM. WDW. (L.M.I.)
E.S. WINDOWS, LLC
3350 N.W. 49 STREET
MIAMI, FL. 33142
TEL (305) 638-5151 FAX (305) 638-5158

REVISIONS:	DATE	DESCRIPTION
A	10/11/17	NO CHANGE THIS SHEET
B	05/05/20	UPDATES TO PER
C	01/12/18	INTERLAYS SHEET 3 ADDED
D	06/22/20	GENERAL REVISION
E	11/01/22	GENERAL REVISION

date: 12-19-16
scale: 1/2"=1'-0"
dr. by: WARD
chk. by:
drawing no.
W16-86
sheet 1 of 11



PRODUCT REVISED
as complying with the Florida
Building Code
NOA No. **23-0103.02**
Expiration Date: **01/19/2027**
By: *Manuel Jara*
Miami-Dade Product Control



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1000 S.W. 22ND AVENUE, SUITE 2200 (J.A.N. 3538)
MIAMI, FLORIDA 33137
TEL: (305) 264-8100 FAX: (305) 262-6978
COMP-ANL W16-SBES

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

REVISIONS:	no.	date	description
	A	10/11/17	NO CHANGE THIS SHEET
	B	05/05/18	NO CHANGE THIS SHEET
	C	01/12/18	NO CHANGE THIS SHEET
	D	06/22/20	GENERAL REVISION
	E	11/01/22	GENERAL REVISION

date: 12-19-16
scale: 1/2"=1'-0"
dr. by: FARO
chk. by:
drawing no. **W16-86**
sheet 2 of 11

DESIGN LOAD CAPACITY - PSF (XO OR OX SIZES)											
WINDOW DIMS.		W/O REINF.				WITH REINF.					
		GLASS TYPES 1, 1i, 2, 2i 2A, 2Ai, 3, 4i		GLASS TYPES 1, 1i, 2, 2i 2A, 2Ai, 3, 4i		GLASS TYPES 5, 5i		GLASS TYPES 1, 1i, 2, 2i 2A, 2Ai, 3			
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)		
WIDTH	HEIGHT										
26-1/2"	26"	65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0		
37"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0		
53-1/8"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0		
74"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0		
76"		-	-	-	-	75.0	80.0	-	-		
80"		-	-	-	-	75.0	80.0	-	-		
84"	-	-	-	-	75.0	80.0	-	-			
26-1/2"	38-3/8"	65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0		
37"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0		
53-1/8"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0		
74"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0		
76"		-	-	-	-	75.0	80.0	-	-		
80"		-	-	-	-	75.0	80.0	-	-		
84"	-	-	-	-	75.0	80.0	-	-			
26-1/2"	50-5/8"	65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0		
37"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0		
53-1/8"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0		
74"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0		
76"		-	-	-	-	75.0	80.0	-	-		
80"		-	-	-	-	75.0	80.0	-	-		
84"	-	-	-	-	75.0	80.0	-	-			
26-1/2"	63"	65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0		
37"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0		
53-1/8"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0		
74"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0		
76"		-	-	-	-	75.0	80.0	-	-		
80"		-	-	-	-	75.0	80.0	-	-		
84"	-	-	-	-	75.0	80.0	-	-			
26-1/2"	74"	-	-	-	-	75.0	80.0	-	-		
37"		-	-	-	-	75.0	80.0	-	-		
53-1/8"		-	-	-	-	75.0	80.0	-	-		
74"		-	-	-	-	75.0	75.0	-	-		

DESIGN LOAD CAPACITY - PSF (XO OR OX SIZES)													
WINDOW DIMS.		W/O REINF.				WITH REINF.							
		GLASS TYPES 1, 1i, 2, 2i 2A, 2Ai, 3, 4i				GLASS TYPES 1, 1i, 2, 2i 2A, 2Ai, 3, 4i				GLASS TYPES 5, 5i		GLASS TYPES 1, 1i, 2, 2i 2A, 2Ai, 3	
		WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)		
24"	24"												
36"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	80.0	90.0			
48"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	80.0	90.0			
60"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	80.0	90.0			
72"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	80.0	90.0			
76"		-	-	-	-	75.0	80.0	-	-	-			
80"		-	-	-	-	75.0	80.0	-	-	-			
84"					75.0	80.0	-	-	-	-			
24"	36"	65.0	65.0	80.0	80.0	75.0	80.0	80.0	80.0	90.0			
36"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	80.0	90.0			
48"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	80.0	90.0			
60"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	80.0	90.0			
72"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	80.0	90.0			
76"		-	-	-	-	75.0	80.0	-	-	-			
80"		-	-	-	-	75.0	80.0	-	-	-			
84"	-	-	-	-	75.0	80.0	-	-	-				
24"	48"	65.0	65.0	80.0	80.0	75.0	80.0	80.0	80.0	90.0			
36"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	80.0	90.0			
48"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	80.0	90.0			
60"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	80.0	90.0			
72"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	80.0	90.0			
76"		-	-	-	-	75.0	80.0	-	-	-			
80"		-	-	-	-	75.0	80.0	-	-	-			
84"	-	-	-	-	75.0	80.0	-	-	-				
24"	60"	65.0	65.0	80.0	80.0	75.0	80.0	80.0	80.0	90.0			
36"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	80.0	90.0			
48"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	80.0	90.0			
60"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	80.0	90.0			
72"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	80.0	90.0			
76"		-	-	-	-	75.0	80.0	-	-	-			
80"		-	-	-	-	75.0	80.0	-	-	-			
84"	-	-	-	-	75.0	80.0	-	-	-				
24"	72"	-	-	-	-	75.0	80.0	-	-	-			
36"		-	-	-	-	75.0	80.0	-	-	-			
48"		-	-	-	-	75.0	80.0	-	-	-			
60"		-	-	-	-	75.0	80.0	-	-	-			
72"		-	-	-	-	75.0	79.2	-	-	-			
76"		-	-	-	-	75.0	76.5	-	-	-			



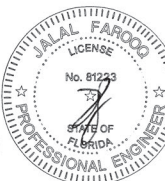
'XO OR OX'

OPERATING VENTS CAN BE 1/4 TO 1/3 OF WINDOW WIDTH
MAX. D.L. OPG. FOR FIXED LITE NOT TO EXCEED
12.7 SQ. FT. FOR GLASS TYPES 1, 1i, 2, 2i, 2A, 2Ai, 3 & 4i
15.7 SQ. FT. FOR GLASS TYPES 5 & 5i

FOR ALTERNATE SIZE UNITS MAX. FRAME AREA OF WINDOW
NOT TO EXCEED TESTED FRAME AREA OF
31.5 SQ. FT. FOR GLASS TYPES 1, 1i, 2, 2i, 2A, 2Ai, 3 & 4i
38.0 SQ. FT. FOR GLASS TYPES 5 & 5i

NOTE:
GLASS CAPACITIES 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. **23-0103.02**
Expiration Date: **01/19/2027**
By: *Manuel J. ...*
Miami-Dade Product Control



DEC 1 2022

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
5000 N.W. 22ND AVENUE, SUITE 200
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANAL-VTG-BBES

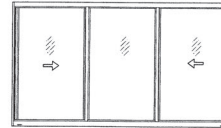
ES-EL200 HORIZONTAL ROLLING ALUM. WDW. (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

Revisions:	date:	12-19-16	by:	description
no.	date		by	
1	1/2/17	17	TARQ	
2	11/01/22			GENERAL REVISION

drawing no. **W16-86**
sheet 2 of 11

DESIGN LOAD CAPACITY - PSF (XOX SIZES)											
WINDOW DIMS.		W/O REINF.				WITH REINF.					
		GLASS TYPES		GLASS TYPES		GLASS TYPES		GLASS TYPES		GLASS TYPES	
		1, 1i, 2, 2i	2A, 2Ai, 3, 4i	1, 1i, 2, 2i	2A, 2Ai, 3, 4i	5, 5i	1, 1i, 2, 2i	2A, 2Ai, 3, 4i	5, 5i	1, 1i, 2, 2i	2A, 2Ai, 3, 4i
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
74"	26"	65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
106-1/4"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
111"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
114"		-	-	-	-	75.0	80.0	-	-	-	-
118"		-	-	-	-	75.0	80.0	-	-	-	-
74"	38-3/8"	65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
106-1/4"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
111"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
114"		-	-	-	-	75.0	80.0	-	-	-	-
118"		-	-	-	-	75.0	80.0	-	-	-	-
74"	50-5/8"	65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
106-1/4"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
111"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
114"		-	-	-	-	75.0	80.0	-	-	-	-
118"		-	-	-	-	75.0	80.0	-	-	-	-
74"	63"	65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
106-1/4"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
111"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
114"		-	-	-	-	75.0	80.0	-	-	-	-
118"		-	-	-	-	75.0	80.0	-	-	-	-
74"	74"	-	-	-	-	75.0	80.0	-	-	-	-
106-1/4"		-	-	-	-	75.0	80.0	-	-	-	-
111"		-	-	-	-	75.0	77.3	-	-	-	-

DESIGN LOAD CAPACITY - PSF (XOX SIZES)											
WINDOW DIMS.		W/O REINF.				WITH REINF.					
		GLASS TYPES		GLASS TYPES		GLASS TYPES		GLASS TYPES		GLASS TYPES	
		1, 1i, 2, 2i	2A, 2Ai, 3, 4i	1, 1i, 2, 2i	2A, 2Ai, 3, 4i	5, 5i	1, 1i, 2, 2i	2A, 2Ai, 3, 4i	5, 5i	1, 1i, 2, 2i	2A, 2Ai, 3, 4i
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
72"	24"	65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
84"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
96"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
108"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
120"		-	-	-	-	75.0	80.0	-	-	-	-
72"	36"	65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
84"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
96"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
108"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
120"		-	-	-	-	75.0	80.0	-	-	-	-
72"	48"	65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
84"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
96"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
108"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
120"		-	-	-	-	75.0	80.0	-	-	-	-
72"	60"	65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
84"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
96"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
108"		65.0	65.0	80.0	80.0	75.0	80.0	80.0	90.0	80.0	90.0
120"		-	-	-	-	75.0	80.0	-	-	-	-
72"	72"	-	-	-	-	75.0	80.0	-	-	-	-
84"		-	-	-	-	75.0	80.0	-	-	-	-
96"		-	-	-	-	75.0	80.0	-	-	-	-
108"		-	-	-	-	75.0	80.0	-	-	-	-
120"		-	-	-	-	75.0	79.2	-	-	-	-



'XOX'

OPERATING VENTS CAN BE 1/4 TO 1/3 OF WINDOW WIDTH
 MAX. D.L. OPG. FOR FIXED LITE NOT TO EXCEED
 12.7 SQ. FT. FOR GLASS TYPES 1, 1i, 2, 2i, 2A, 2Ai, 3 & 4i
 15.7 SQ. FT. FOR GLASS TYPES 5 & 5i
 FOR ALTERNATE SIZE UNITS MAX. FRAME AREA OF WINDOW
 NOT TO EXCEED TESTED FRAME AREA OF
 47.4 SQ. FT. FOR GLASS TYPES 1, 1i, 2, 2i, 2A, 2Ai, 3 & 4i
 57.3 SQ. FT. FOR GLASS TYPES 5 & 5i

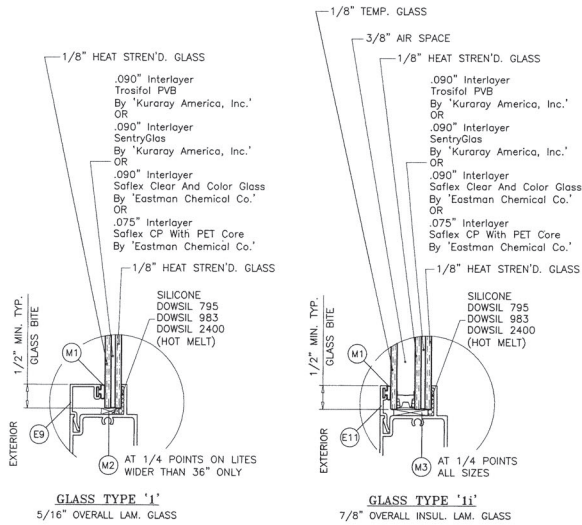
NOTE:
 GLASS CAPACITIES ARE
 BASED ON ASTM E1300-09 (3 SEC. GUSTS)
 AND FLORIDA BUILDING COMMISSION
 DECLARATORY STATEMENT DCA05-DEC-219

PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. **23-0103.02**
 Expiration Date: **01/19/2027**
 By: *Manuel J. ...*
 Miami-Dade Product Control

DEC 1 3 2022



AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 3550 N.W. 49 STREET MIAMI, FLORIDA 33142 TEL. (305) 264-4078 FAX. (305) 264-4000		ES-EL200 HORIZONTAL ROLLING ALUM. WDW. (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 1 12-19-16 1/2" x 1'-0" by TARD 2 11-01-22 GENERAL REVISION 3 4 5	
drawing no. W16-86		sheet 2.2 of 11	



GLAZING OPTIONS

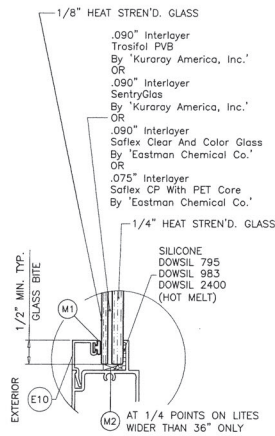
5/16" & 3/8" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000

PRODUCT REVISED
as complying with the Florida
Building Code
NOA No. **23-0103.02**
Expiration Date: **01/19/2027**
By: *Manuel Fern*
Miami-Dade Product Control

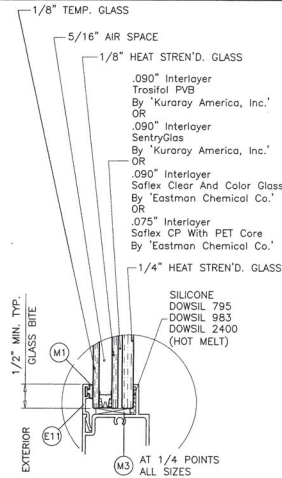
DEC 1 2022



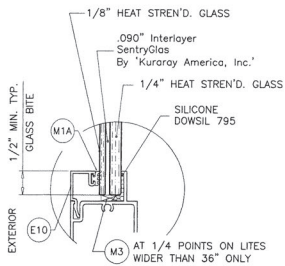
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 3550 N.W. 49 STREET MIAMI, FLORIDA 33142 TEL. (305) 264-8500 FAX. (305) 264-8599 COMP-ANL W16-86ES	
ES-EL200 HORIZONTAL ROLLING ALUM. WDW. (L.M.I.) E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	
Revisions: no. date by description A 01/11/17 REV. PER REC COMMENTS B 01/12/18 UPDATED TO 2017 FBC C 01/13/18 REVISIONS ADDED D 04/22/20 GENERAL REVISION E 11/01/22	date: 12-19-16 scale: 1/2" = 1" dr. by: TARD chg. by:
drawing no. W16-86 sheet 3 of 11	



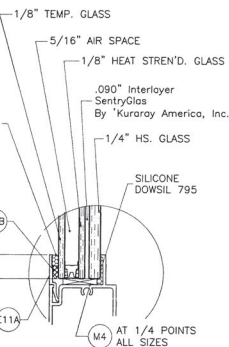
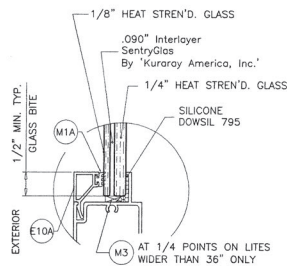
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7/16" OVERALL LAM. GLASS



GLASS TYPE '2i'
7/8" OVERALL INSUL. LAM. GLASS



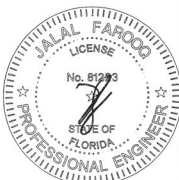
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7/16" OVERALL LAM. GLASS



GLASS TYPE '2Ai'
7/8" OVERALL INSUL. LAM. GLASS

5/16" & 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

PRODUCT REVISED
as complying with the Florida
Building Code
NOA No. **23-0103.02**
Expiration Date: **01/19/2027**
By: *Manuel Jim*
Miami-Dade Product Control

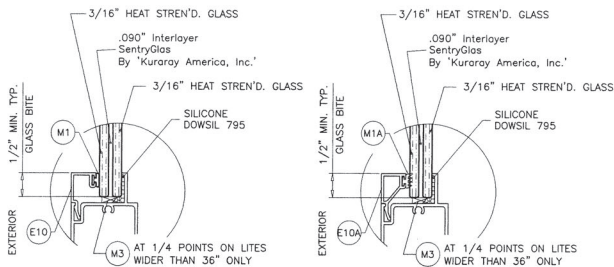


AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1000 S.W. 22ND AVENUE, SUITE 2200
MIAMI, FLORIDA 33135
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANAL W16-SBES

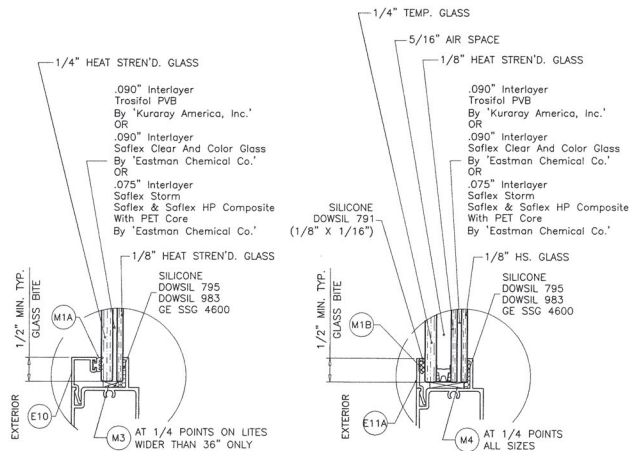
ES-EL200 HORIZONTAL ROLLING ALUM. WDW. (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

REVISIONS:	no.	date	by	description
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drawing no. **W16-86**
sheet 3 of 11

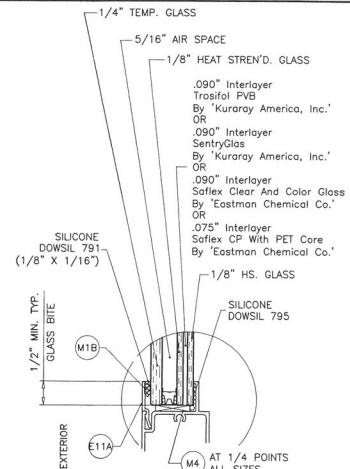


GLASS TYPE '3'
7/16" OVERALL LAM. GLASS



GLASS TYPE '5'
7/16" OVERALL LAM. GLASS

GLASS TYPE '5i'
7/8" OVERALL INSUL. LAM. GLASS



GLASS TYPE '4i'
7/8" OVERALL INSUL. LAM. GLASS

PRODUCT REVISED
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Expiration Date: **01/19/2027**
By: *Manuel Jara*
Miami-Pade Product Control

5/16" 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



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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
3550 N.W. 49 STREET
MIAMI, FLORIDA 33142
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL W16-BEES

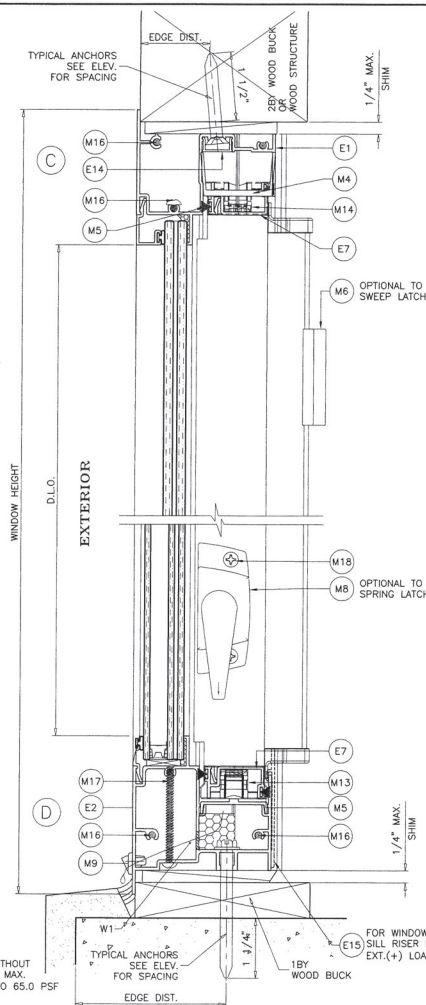
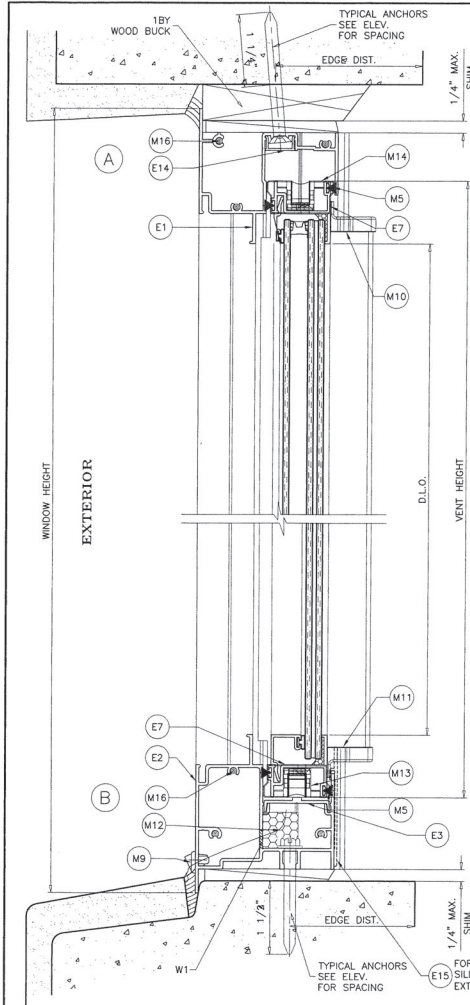
ES-EL200 HORIZONTAL ROLLING ALUM. WDW. (L.M.I.)
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date: 12-19-16
scale: 1/2" = 1"
dr. by: FAROQ
chk. by:
drawing no.
W16-86
sheet 3,2 of 11

GLAZING OPTIONS

DEC 14 2022



WEEPHOLES:

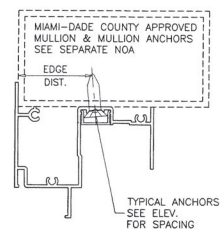
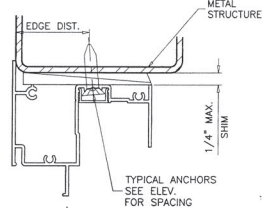
W1 = 1-1/2" X 5/16" WEEPHOLES AT 5-1/2" FROM EACH END

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AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 264-8800 FAX. (305) 264-8800 COMP-ANL W16-SBES	
ES-EL200 HORIZONTAL ROLLING ALUM. WDW. (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 10/11/17 NO CHANGE THIS SHEET B 10/27/17 NO CHANGE THIS SHEET C 08/22/20 NO CHANGE THIS SHEET D 11/01/22 GENERAL REVISION	date: 12-19-16 scale: 1/2" = 1" dr. by: JARO chg. by:
drawing no. W16-86 sheet 4 of 11	



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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. ULTRA-CON+ BY "DEWALT" ($F_u=164$ KSI, $F_y=148$ KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
 INTO CONCRETE AND MASONRY = 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.

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 Miami-Dade Product Control
 DEC 1 2022



AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 2200 S.W. 11TH AVENUE, SUITE 220
 MIAMI, FLORIDA 33135
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-AN\W16-86ES

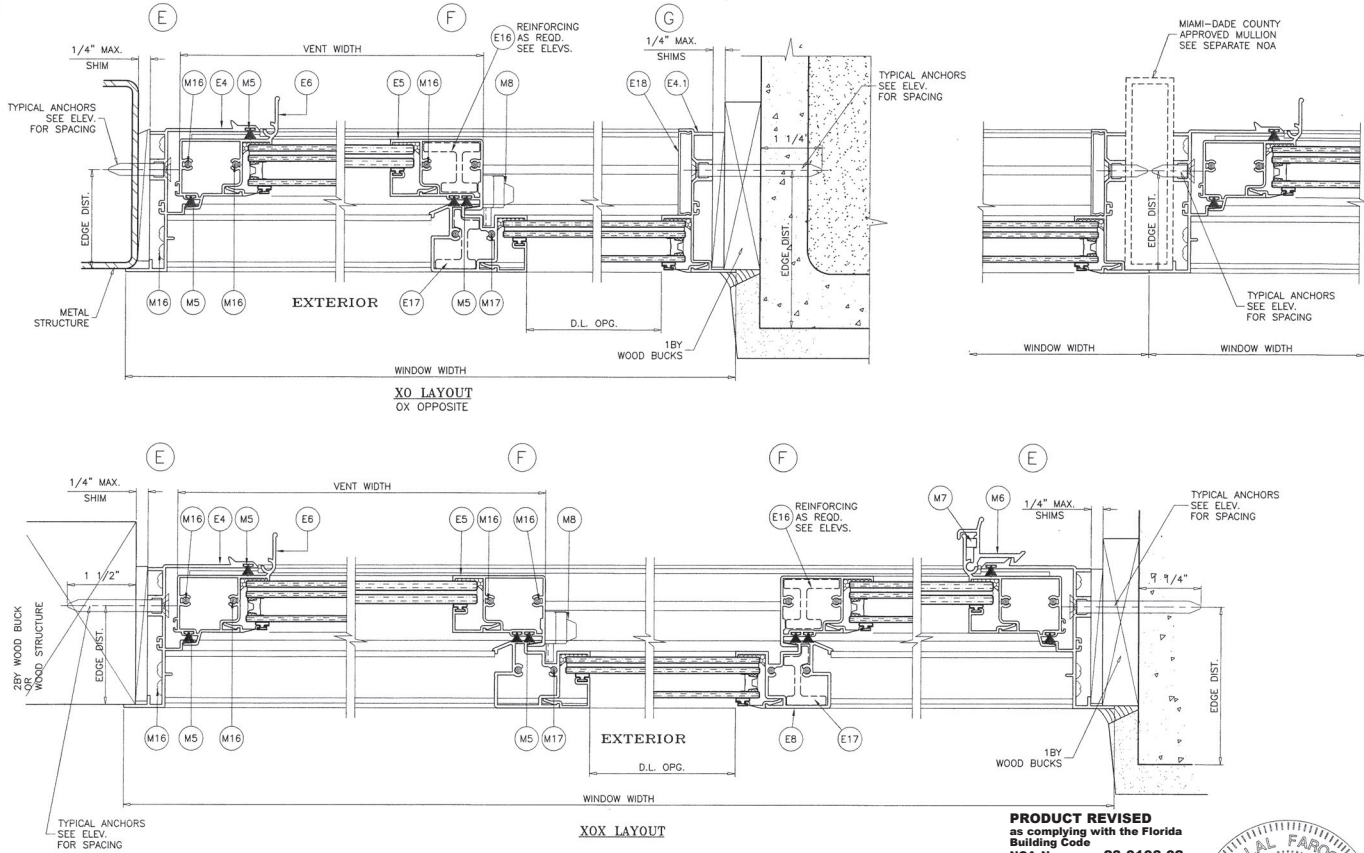
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ES-EL200 HORIZONTAL ROLLING ALUM. WDW. (L.M.I.)
E.S. WINDOWS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

NO.	DATE	BY	DESCRIPTION
A	10/11/17		NO CHANGE THIS SHEET
B	05/22/18		CHANGED TO 2017 FBC
C	01/12/18		NO CHANGE THIS SHEET
D	06/22/20		GENERAL REVISION
E	11/01/22		GENERAL REVISION

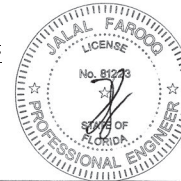
date: 12-19-16
 scale: 1/2" = 1"
 dr. by: FAROQ
 ch. by:

drawing no.
W16-86
 sheet 5 of 11



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By: *Manuel J. Jara*
Miami-Dade Product Control

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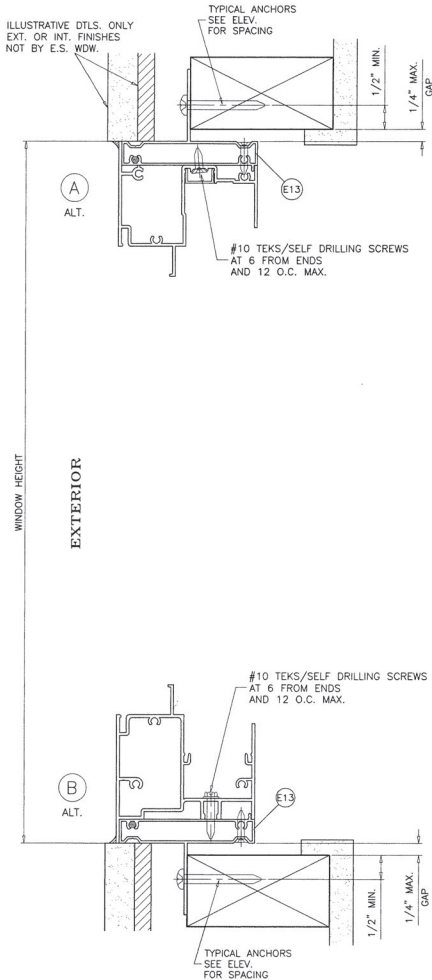
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
3350 N.W. 49 STREET
MIAMI, FLORIDA 33142
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANAL W16-S6ES

ES-EL200 HORIZONTAL ROLLING ALUM. WDW. (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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NO.	DATE	DESCRIPTION
A	10/11/17	NO CHANGE THIS SHEET
B	10/27/17	NO CHANGE THIS SHEET
C	10/27/17	NO CHANGE THIS SHEET
D	10/22/20	GENERAL REVISION
E	11/01/22	GENERAL REVISION

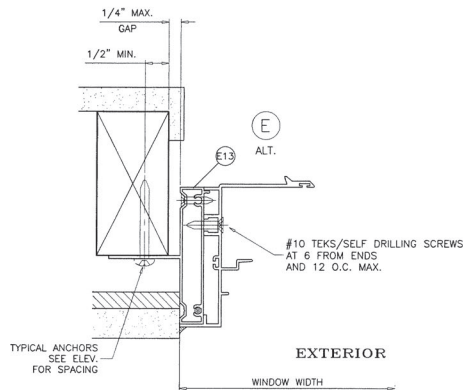
date: 12-19-16
scale: 1/2" = 1"
dr. by: JARO
chk. by:

drawing no.
W16-86
sheet 6 of 11



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

#10 WOOD SCREWS (GRADE 2 CRS)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD



INSTALLATION DETAILS WITH FIN FRAME ADAPTER
SEE SHEETS 4 & 6 FOR WINDOW DETAILS

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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
3550 N.W. 49 STREET
MIAMI, FLORIDA 33142
TEL (305) 264-8100 FAX (305) 264-8078
COMP-ANL W16-885

a f c

ES-EL200 HORIZONTAL ROLLING ALUM. WDW. (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	DESCRIPTION
12-19-16	NO CHANGE THIS SHEET
01/11/17	NO CHANGE THIS SHEET
02/27/17	NO CHANGE THIS SHEET
04/22/20	GENERAL REVISION
11/01/22	GENERAL REVISION

scale: 1/2" = 1"

dr. by: FAROQ

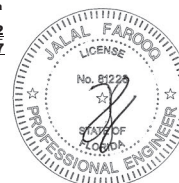
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drawing no.
W16-86

sheet 8 of 11

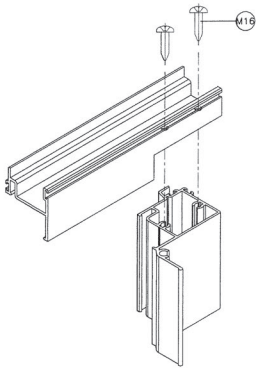
ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-EL104	1	FRAME HEAD	6063-T6	-
E2	ES-EL201	1	FRAME SILL	6063-T6	-
E3	ES-EL202	1	SILL TRACK	6063-T6	-
E4	ES-EL102	2	FRAME JAMB (OPERATING)	6063-T6	-
E4.1	ES-EL101A	2	FRAME JAMB (FIXED)	6063-T6	-
E5	ES-EL105	1	INTERLOCK STILE	6063-T6	-
E6	ES-EL106	1	JAMB STILE	6063-T6	-
E7	ES-EL107	2	VENT TOP & BOTTOM RAIL	6063-T6	-
E8	ES-EL108A	1	FIXED MTG. STILE	6063-T6	-
E9	ES-EL109	AS REQD.	GLAZING BEAD (5/16" LAM. GLASS)	6063-T6	-
E10	ES-EL110	AS REQD.	GLAZING BEAD (7/16" LAM. GLASS)	6063-T6	-
E10A	ES-EL123	AS REQD.	GLAZING BEAD (7/16" LAM. GLASS)	6063-T6	-
E11	ES-EL111	AS REQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	-
E11A	ES-EL116	AS REQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	-
E12	ES-EL112	AS REQD.	FLUSH FRAME ADAPTER	6063-T6	-
E13	ES-EL115	AS REQD.	FLUSH FRAME ADAPTER WITH FIN	6063-T5	-
E14	ES-EL114	AS REQD.	HEAD SCREW COVER	6063-T6	-
E15	ES-2011	AS REQD.	SILL RISER	6063-T6	-
E16	ES-EL220	AS REQD.	INTERLOCK STILE STIFFENER	6005-T5	-
E17	ES-EL221	AS REQD.	FIX. MTG. STILE STIFFENER	6005-T5	-
E18	ES-EL113A	AS REQD.	JAMB SCREW COVER	6063-T6	-
M1	ES-5008A	AS REQD.	GLAZING BEAD BULB	SILICONE	DUROMETER 60±5 SHORE A
M1A	EL100-G02	AS REQD.	EXTERIOR LEAF GASKET	SILICONE	DUROMETER 60±5 SHORE A
M1B	ES-H-340-G05	AS REQD.	EXTERIOR WEDGE GASKET	SILICONE	DUROMETER 65±5 SHORE A
M2	80-372A	2/ LITE	SETTING BLOCK AT 1/4 POINTS (LAM. GLASS)	SILICONE	DUROMETER 80±5 SHORE A
M3	EL100-B01	2/ LITE	SETTING BLOCK AT 1/4 POINTS (INSUL. LAM. GLASS)	SILICONE	DUROMETER 80±5 SHORE A
M4	EL100-301	AS REQD.	VENT STOP	RIGID PVC	-
M5	W23211NG	AS REQD.	PILE W/STRIPPING WITH PLASTIC FIN	POLYPROPYLENE	-
M6	SK08-4010	2/ VENT	SPRING LOADED LATCH	6063-T6	ALTERNATE TO SWEEP LATCH
M7	ES-1012	2/ LATCH	LATCH SPRING	ST. STEEL	-
M8	SL302-XX	2/ VENT	SWEEP LATCH	DIE CAST ALUM	-
M9	WA2L	2	WEEP HOLE COVER	RIGID PVC	-
M10	ES-1000-P1L	-	LEFT NOTCH CAP	NYLON	-
M11	ES-1000-P1R	-	RIGHT NOTCH CAP	NYLON	-
M12	WPSA-N1	2	3/4" X 3/4" RETIC FOAM PAD	FOAM	-
M13	TAR-16019P-A	2	ROLLER	POLYAMIDE & ACETAL	-
M14	TAR-16019P	2	ROLLER HOUSING	POLYAMIDE	-
M15	#8 X 1"	-	FLUSH FRAME ADAPTER ASSEMBLY FASTENERS	ST. STEEL	FH SMS
M16	#8 X 1"	-	FRAME AND VENT ASSEMBLY FASTENERS	ST. STEEL	PH SMS
M17	#8 X 3"	-	FRAME SILL ASSEMBLY FASTENERS	ST. STEEL	PH SMS
M18	#8 X 3/4"	-	SWEEP LATCH FASTENERS	ST. STEEL	FH SMS
M20	#14 X 3/4"	-	ASSEMBLY FASTENERS FOR FLUSH ADAPTER	ST. STEEL	PH SMS

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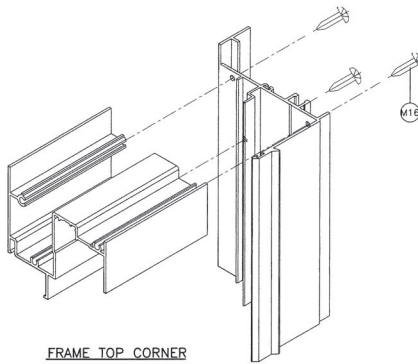


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drawing no. W16-86 sheet 9 of 11	

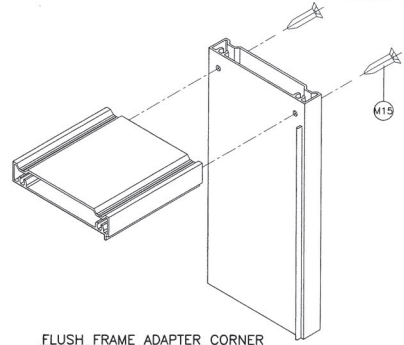
DEC 19 2022



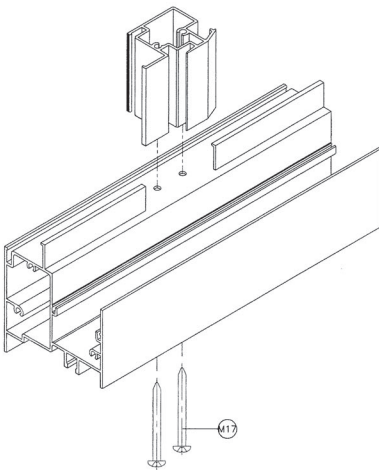
VENT TOP & BOTTOM CORNER



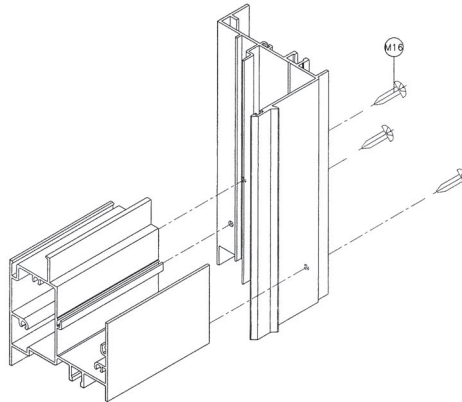
FRAME TOP CORNER



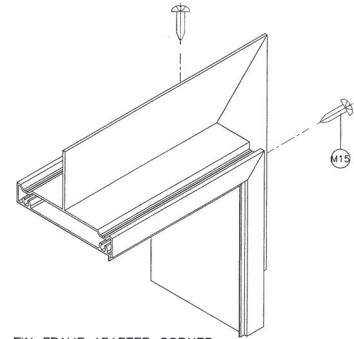
FLUSH FRAME ADAPTER CORNER



FIX. MTG. RAIL CORNER

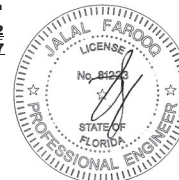


FRAME BOTTOM CORNER



FIN FRAME ADAPTER CORNER

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0103.02**
Expiration Date: **01/19/2027**
By: *Manuel Jara*
Miami-Dade Product Control
DEC 1 2022



af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
10000 SW 11TH AVENUE SUITE 2200
MIAMI, FLORIDA 33177 (U.S.A.)
TEL: (305) 264-8100 FAX: (305) 262-6978
COMP-ANL W16-86ES

ES-EL200 HORIZONTAL ROLLING ALUM. WDW. (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	10.11.17		NO CHANGE THIS SHEET
	B	10.21.17		NO CHANGE THIS SHEET
	C	08.22.20		NO CHANGE THIS SHEET
	D	08.22.20		GENERAL REVISION
	E	11.01.22		GENERAL REVISION

date: 12-19-16
scale: 1/2" = 1"
dr. by: JARQ
chk. by:
drawing no.
W16-86
sheet 11 of 11



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

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 "ES-EL300-9" Aluminum Outswing Door w/wo Sidelites - L.M.I.

APPROVAL DOCUMENT: Drawing No. **W21-06D Rev B**, titled "ES-EL300-9" Aluminum Outswing Door (L.M.I.)", sheets 1 through 12 of 12, dated 03/10/22 and last revised on 07/07/2023, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision 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

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, **Baranquilla, 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 **revises** # **22-0328.03 (spin-off)** consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.

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



Ishaq I. Chanda

NOA No. 23-0714.10
Expiration Date: January 04, 2028
Approval Date: August 17, 2023
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W21-06D Rev A**, titled "ES-EL300-9' Aluminum Outswing Door (L.M.I.)", sheets 1 through 12 of 12, dated 03/10/22 and last revised on 03/17/2022, prepared by Al-Farooq Corporation, 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
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 outswing door, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-18-006**, dated 10/11/18, signed and sealed by Constantin Bortes, P.E. with Letter of Clarification dated 08/03/17 and 02/16/22 issued by Black Water Testing Lab.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 2020 (7th Edition)**, dated 03/17/22, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E1300-09 &-16**.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **20-0915.21** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**", expiring on 02/08/23.

F. STATEMENTS

1. Statement letter of conformance to and **FBC-7th Edition (2020)** and of no financial interest dated 03/21/22, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. This NOA revises # **19-0918.03 (spin-off)**, expiring 01/04/28.
2. Distributor Agreement, signed by Carlos Garcia and by Evelyn Daes (Documents in various ES files).

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0714.10
Expiration Date: January 04, 2028
Approval Date: August 10, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W21-06D Rev B**, titled “ES-EL300-9’ Aluminum Outswing Door (L.M.I.)”, sheets 1 through 12 of 12, dated 03/10/22 and last revised on 07/07/2023, prepared by Al-Farooq Corporation, 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. **20-0915.21** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**”, expiring on 02/08/23.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, dated 07/14/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Statement letter of conformance to and **FBC-7th Edition (2020)** and of no financial interest dated 03/21/22, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. This NOA revises **22-0328.03 (spin-off)**, expiring 01/04/28.
2. Distributor Agreement, signed by Carlos Garcia and by Evelyn Daes (Documents in various ES files).

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0714.10
Expiration Date: January 04, 2028
Approval Date: August 10, 2023

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

ES-EL300-9

ALUMINUM OUTSWING ENTRANCE DOOR

APPROVAL APPLIES TO SINGLE (X) AND DOUBLE (XX) LEAF DOORS
WITH OR WITHOUT SIDELITES.
SIDE LITES CAN BE ON ONE OR BOTH SIDES OF DOOR.

DOORS APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION
RESISTANCE IS REQUIRED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH 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.

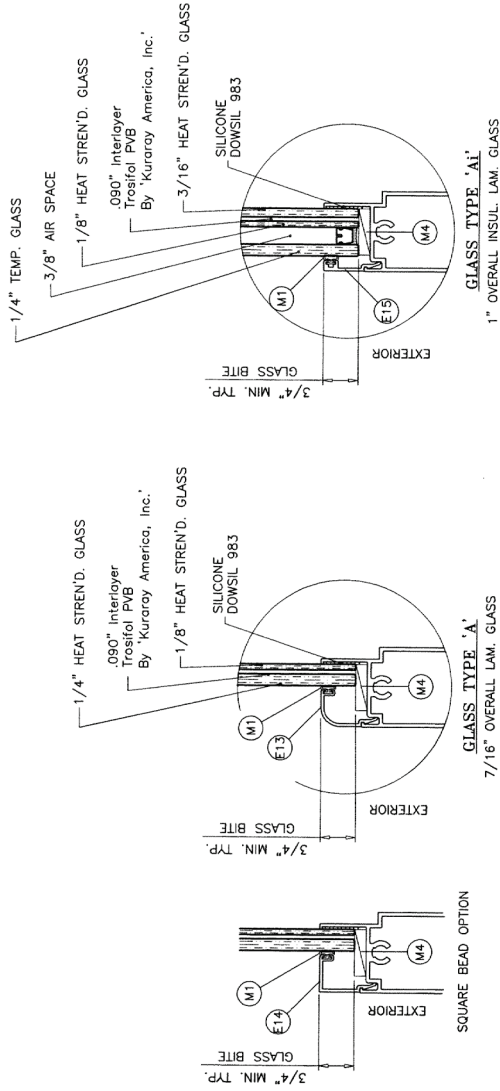
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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)'.

GLAZING OPTIONS



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0714.10

Expiration Date 01/04/2028

By *Iskang I. Llanza*
Miami-Dade Product Control

GLASS TYPES 'A' & 'A' COMPLY WITH
REQUIREMENTS OF ANSI Z97.1.
SAFEGUARD REQUIREMENTS TO BE VERIFIED.

INSTRUCTIONS:

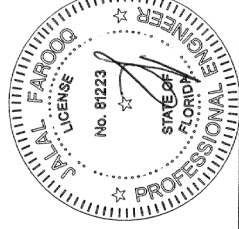
USE CHARTS AS FOLLOWS.
STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENT BASED
ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE
USING APPLICABLE ASCE 7 STANDARD.

STEP 2 FOR SINGLE (X) AND DOUBLE (XX) DOOR CAPACITIES
SEE SHEET 2.

STEP 3 FOR SIDELITE PANEL (O) CAPACITY SEE SHEET 3.

STEP 4 FOR SIDELITE COMBINATION WITH DOOR
SEE MULLION CAPACITY CHART ON SHEET 4.

STEP 5 THE LOWEST VALUE RESULTING FROM STEPS 2, 3
AND 4 SHALL APPLY TO ENTIRE SYSTEM.



JUL 07 2023

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

ES-EL300-9 ALUMINUM OUTSWING 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	description
	A	03.10.23	NO CHANGE THIS SHEET
	B	06.29.23	UPDATED TO 2023 FBC

chk. by: TARIQ
drawing no. 21-06D
date: 09-17-21
scale: 3/8" = 1'
sheet 1 of 12

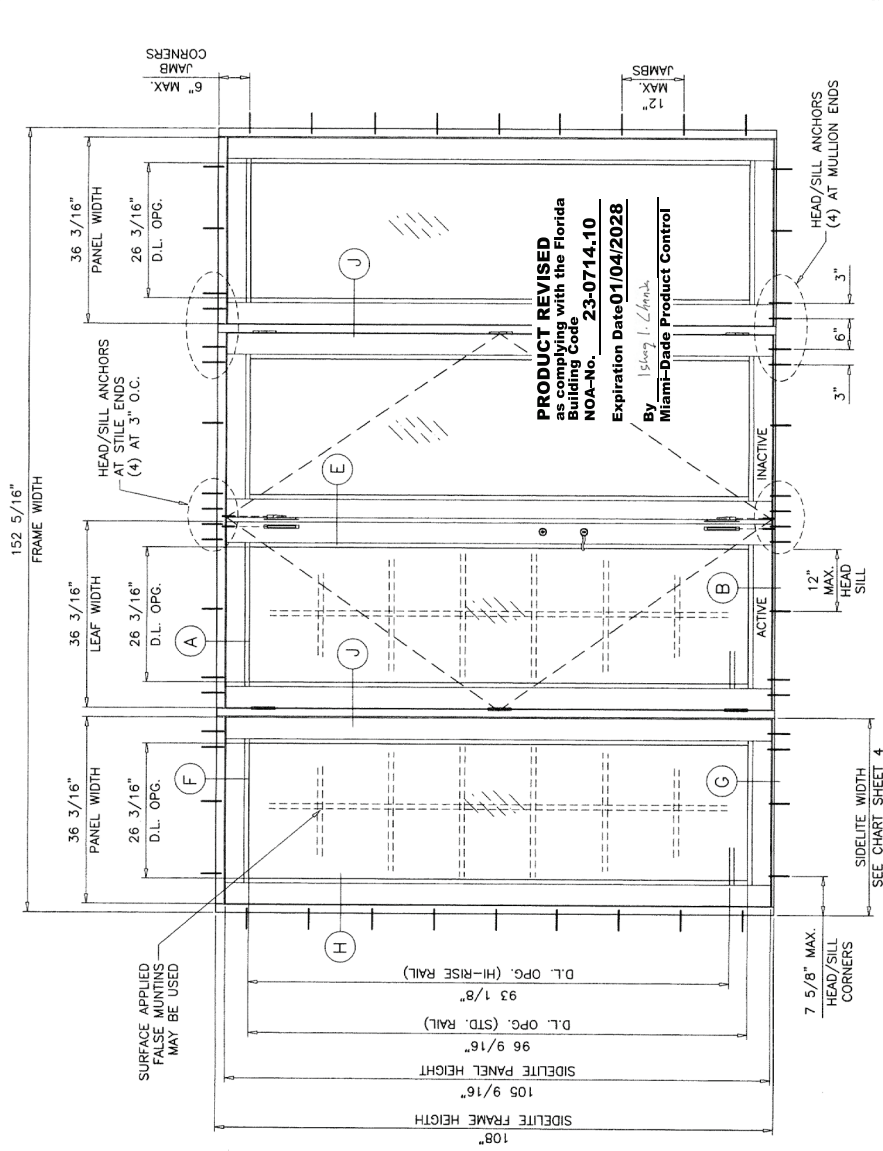
A circular professional engineer seal for the State of Florida. The outer ring contains the text "JALAL FAROOQ" at the top, "ENGINEER" on the right, and "PROFESSIONAL" at the bottom. The inner circle contains the text "LICENSE" on the left, "No. 81223" in the center, and "STATE OF FLORIDA" on the right. There are three stars: one at the top, one on the left, and one on the right. A signature is written across the center of the seal.

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

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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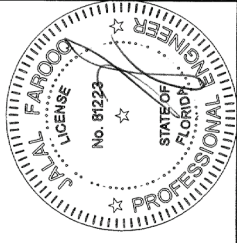
ES-EL300-9 ALUMINUM OUTSWING DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL (305) 638-5151 FAX (305) 638-5158

date	09-17-21	no	03.10.22	description	REV. PER RER COMMENTS
scale	1/2"=1'-0"	date	06.29.23	no	08.29.23
drawing no.	21-06D	chk. by:	TARLO	date	09-17-21
sheet	3 of 12				



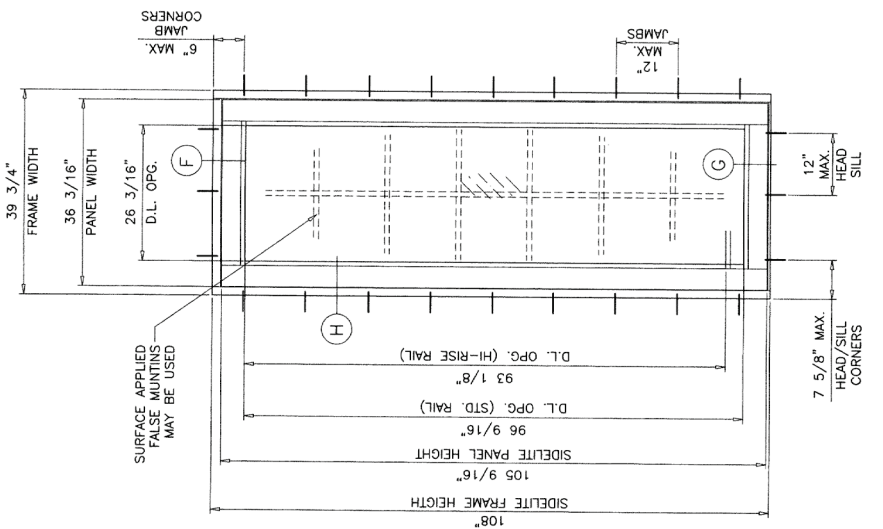
TYPICAL ELEVATION
(O)

NOTE:
THE FRAME AREA OF ALTERNATE SIZE MUST NOT
EXCEED TESTED FRAME AREA = 98.7 SQ. FT.



JUL 07 2023

D.L.O. HEIGHT (SIDE LITE) = FRAME HEIGHT - 11.438" (STD. BOT. RAIL)
= FRAME HEIGHT - 14.875" (HI-RISE BOT. RAIL)
D.L.O. WIDTH (SIDE LITE) = FRAME WIDTH - 13.563"



TYPICAL ELEVATION
(O)

SIDELITE LOAD CAPACITY - PSF OR STAND ALONE STATIONARY PANEL (O)					
FRAME		PANEL		EXT. (+)	
WIDTH	HEIGHT	WIDTH	HEIGHT	EXT. (+)	INT. (-)
39-3/4"	108"	36-3/16"	105-9/16"	80.0	80.0

SIDELITE WIDTH = FRAME WIDTH - 1-5/8"
(SEE CHART ON SHEET 4)

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ES-EL300-9 ALUMINUM OUTSWING DOOR (L.M.I.)
E.S. WINDOWS, LLC
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revision:

no	date	description
A	03.10.22	NO CHANGE THIS SHEET
B	06.29.23	NO CHANGE THIS SHEET

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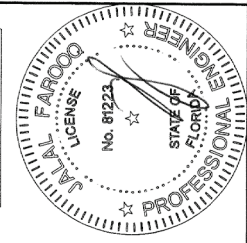
dr.	by:
TARIC	

date: 09-17-21 scale: 3/8" = 1"

drawing no. **21-06D**

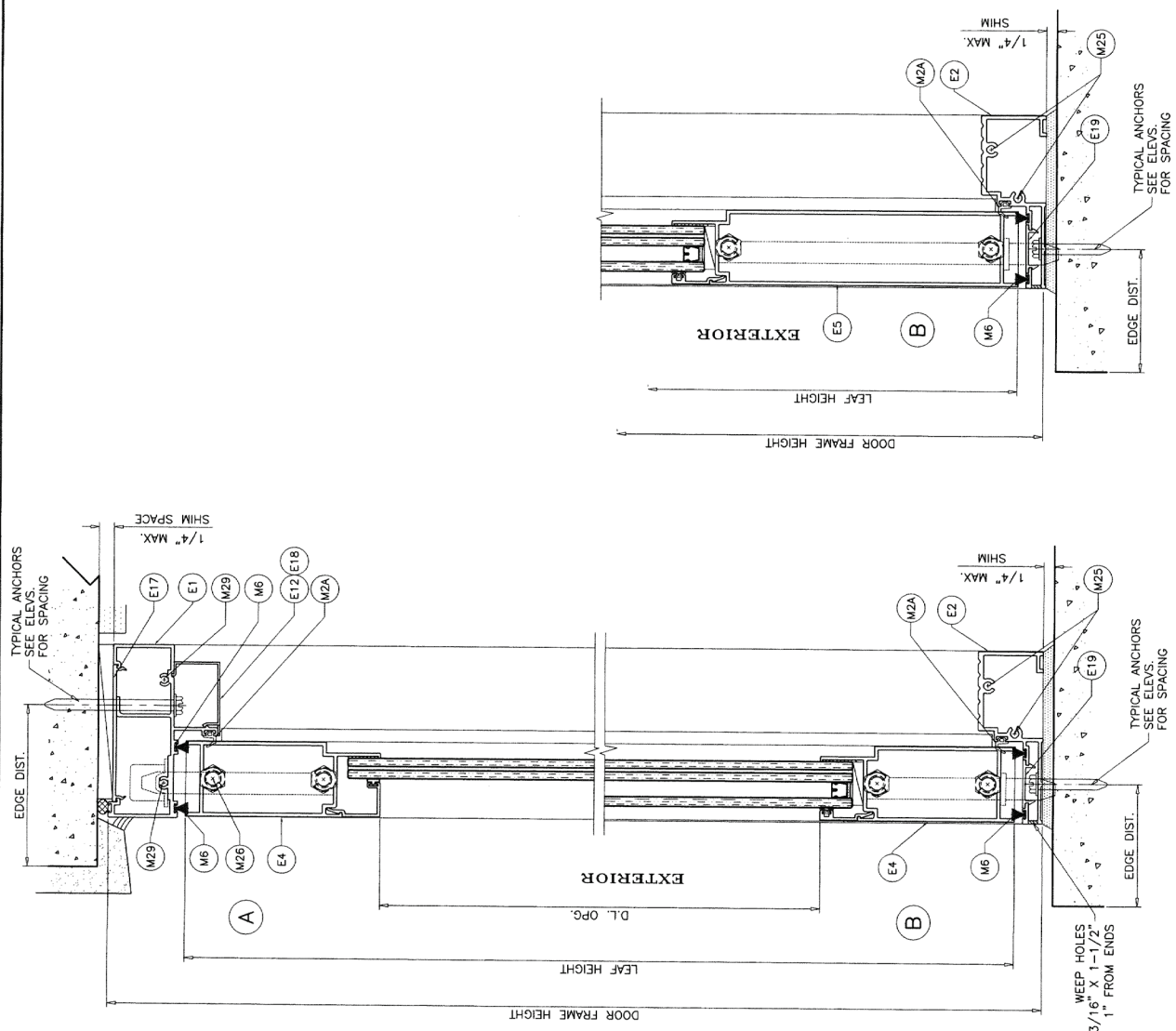
sheet 5 of 12

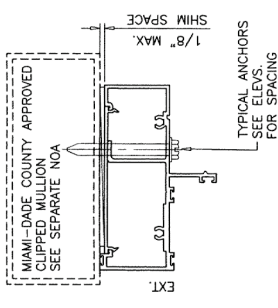
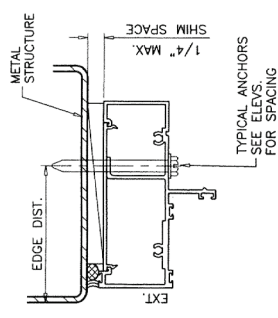
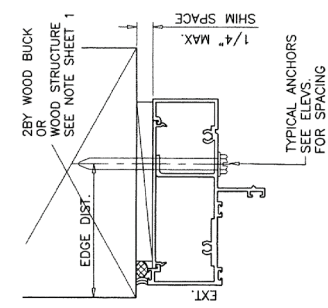
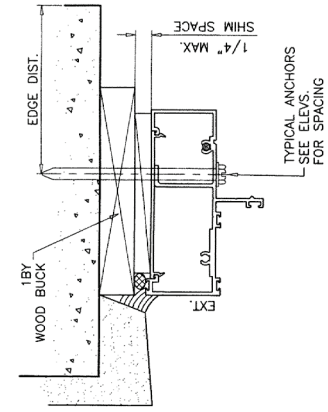
DOOR DETAILS



JUL 07 2023

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0714.10**
Expiration Date **01/04/2028**
By *Isaac I. Leach*
Miami-Dade Product Control





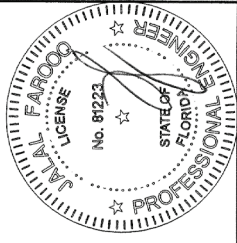
WOOD BUCKS AND METAL STRUCTURE NOT BY 'E.S. WINDOWS' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONCRETE OR GROUT FILLED 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 MIAMI-DADE COUNTY APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD/JAMBS)
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
 INTO CONCRETE AND MASONRY = 2-1/2" MIN.
 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
 Building Code
 NOA-No. **23-0714.10**
 Expiration Date **01/04/2028**
 By *Iskang L. Llanza*
Miami-Dade Product Control

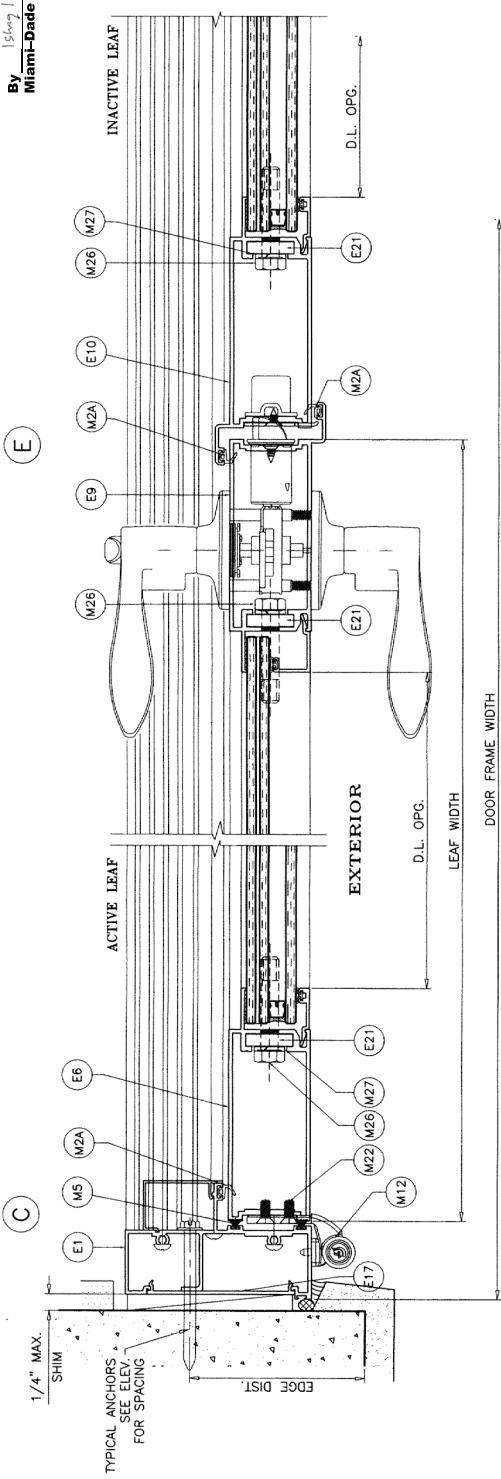
DOOR DETAILS



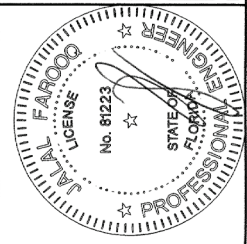
JUL 07 2023

revisions:	no	date	description
	A	03.10.22	REV. PER RER COMMENTS
	B	06.29.23	NO CHANGE THIS SHEET
chk. by:	dr. by:	scale:	date:
	TARIQ	3/8" = 1"	09-17-21
drawing no.	sheet		
21-06D	6 of 12		

ES-EL300-9 ALUMINUM OUTSWING DOOR (L.M.I.)
 E.S. WINDOWS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158
 AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
 FAX. (305) 262-6978
 COMP-ANL\21-06D-ES



DOOR DETAILS

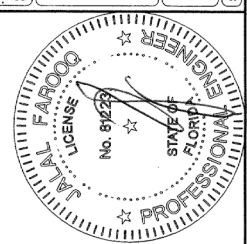


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no	date	by	description
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B	06.29.23		NO CHANGE THIS SHEET

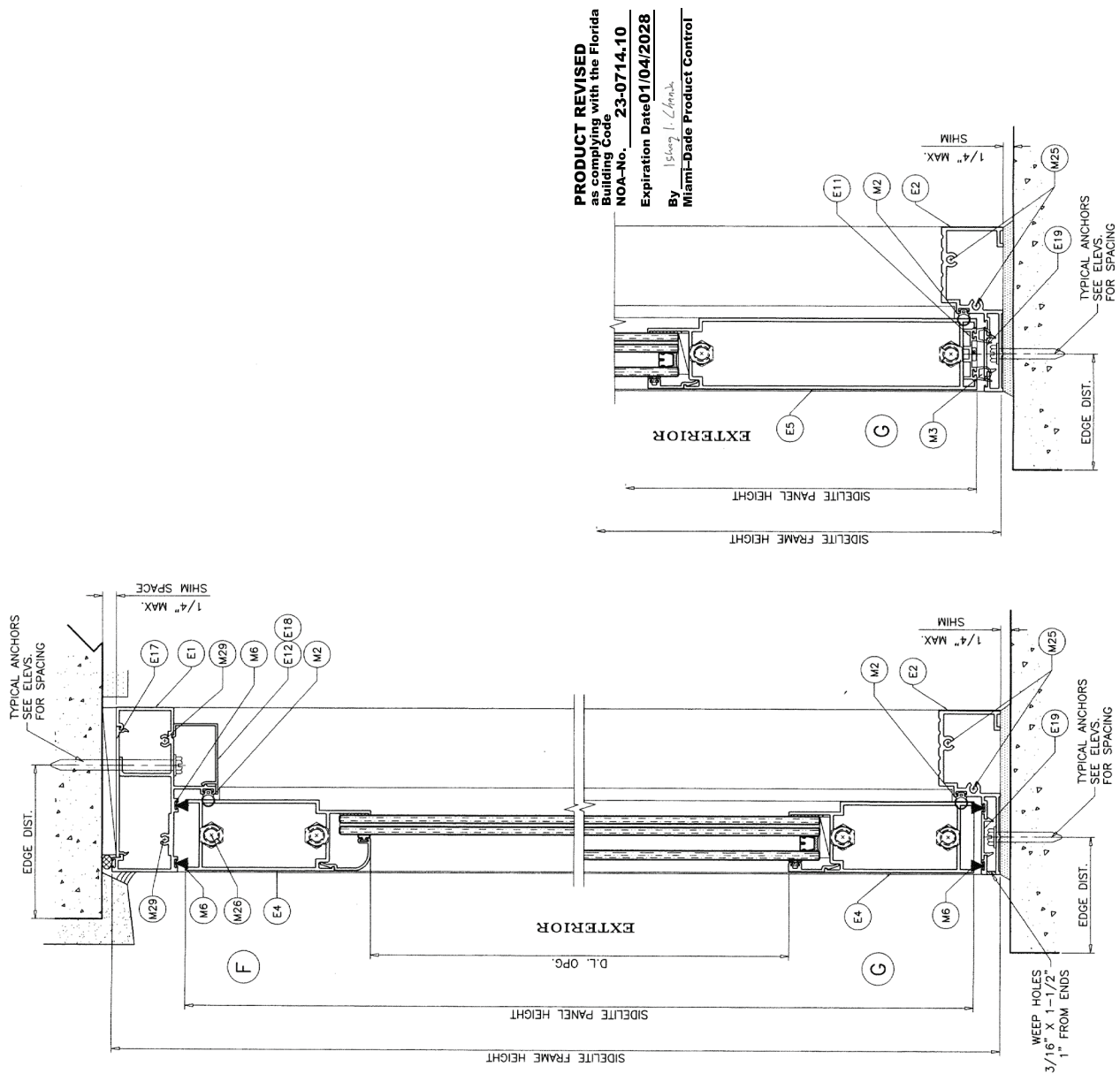
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SIDELITE DETAILS

JUL 07 2023



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0714.10
Expiration Date 01/04/2028
By *Iskender I. L. Farooq*
Miami-Dade Product Control

AL-FAROQ CORPORATION
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COMP-ANL\21-06D-ES

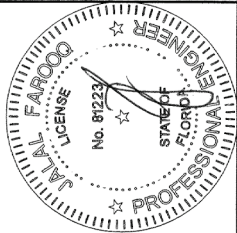
ES-EL300-9 ALUMINUM OUTSWING DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
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TEL: (305) 638-5151
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revisions:	no	date	by	description
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chk. by:	TARRO			
drawing no.	21-06D			
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date:	09-17-21			

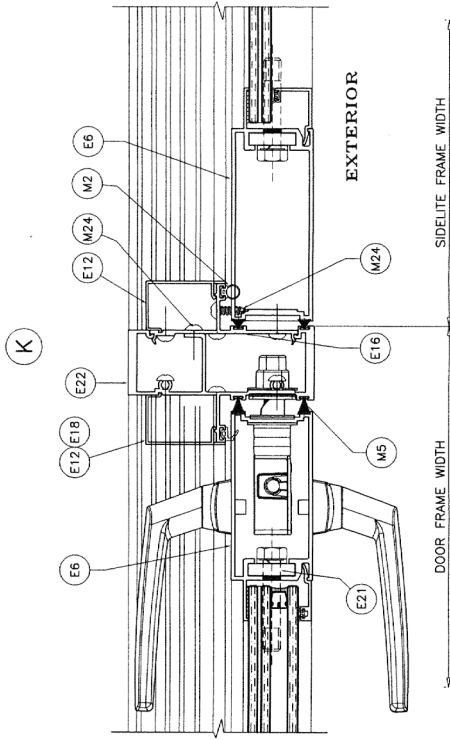
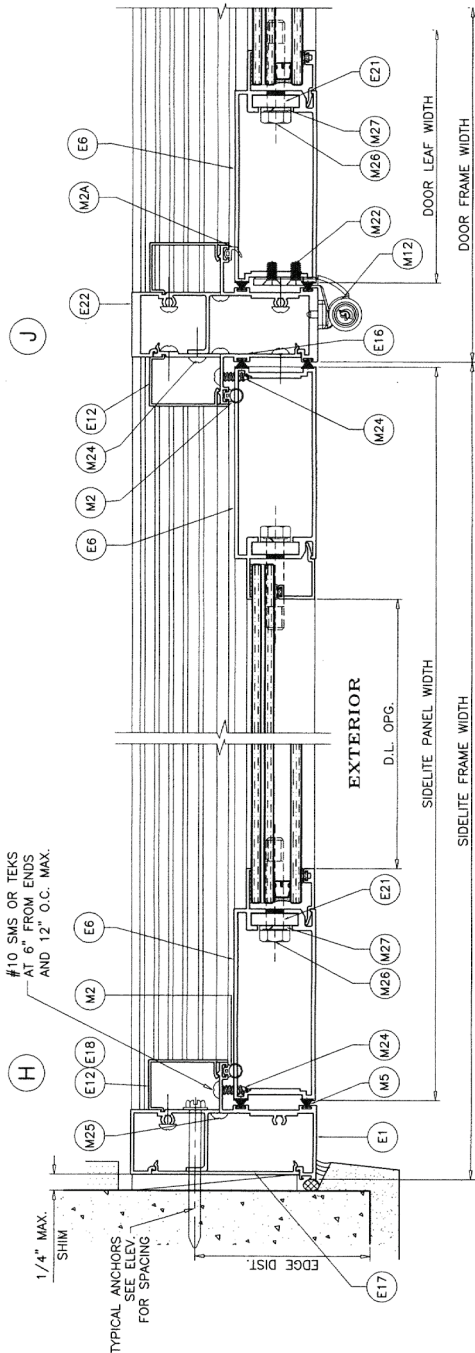
sheet 9 of 12

21-06D



JUN 03 2023

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **23-0714.10**
Expiration Date **01/04/2028**
By Ismael I. Lopez
Miami-Dade Product Control



SIDELITE DETAILS

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-EL300-001	3	FRAME HEAD/JAMB	6063-T6	-
E2	ES-EL300-002	1	FRAME SILL (STD.)	6063-T6	-
E4	ES-EL300-004	2/ LEAF	TOP AND BOTTOM RAIL	6063-T6	-
E5	ES-EL300-005	1/ LEAF	HI-RISE BOTTOM RAIL	6063-T6	-
E6	ES-EL300-020	1/ LEAF	JAMB STILE	6063-T6	-
E9	ES-EL300-021	1	ASTRAGAL STILE (ACTIVE)	6063-T6	-
E10	ES-EL300-022	1	ASTRAGAL STILE (INACTIVE)	6063-T6	-
E12	ES-EL300-012	1	FRAME COVER	6063-T5	-
E13	ES-EL300-013	4/ LEAF	GLASS STOP (LAM. GLASS)	6063-T5	-
E14	ES-EL300-014	4/ LEAF	GLASS STOP (LAM. GLASS)	6063-T5	-
E15	ES-EL300-015	4/ LEAF	GLASS STOP (INSUL. LAM. GLASS)	6063-T5	-
E16	ES-EL300-016	AS REQD.	SNAP IN FILLER	6063-T6	-
E17	ES-EL300-017	AS REQD.	EXTERIOR TRIM	6063-T6	-
E18	ES-EL300-018	AS REQD.	FRAME COVER	6063-T5	-
E19	ES-EL300-019	1	COVER STD. SILL	6063-T6	-
E21	ACC-PL-020	1	BACK UP PLATE	6063-T6	-
E22	ES-EL300-026	1	MULLION	6063-T6	-
M1	ES-5008A	AS REQD.	GLAZING GASKET	SILICONE	DUROMETER 65±5 SHORE A
M2	ES-P251-005A	AS REQD.	SIDELITE GASKET	SILICONE	DUROMETER 70±5 SHORE A
M2A	ES-EL300-001	AS REQD.	DOOR LEAF GASKET	SILICONE	DUROMETER 65±5 SHORE A
M4	ES-21-B04A	2/ LITE	SETTING BLOCKS AT 1/4 POINTS	SILICONE	DUROMETER 80±5 SHORE A
M5	W23221NK	AS REQD.	PILE W/STRIPPING	POLYPROPYLENE	-
M6	W23221NK	AS REQD.	PILE W/STRIPPING	POLYPROPYLENE	-
M7	W23381NK	AS REQD.	PILE W/STRIPPING	POLYPROPYLENE	-
M12	DH01-6005	4/ LEAF	ATHENA HINGE	-	-
M22	#12-24 X 1/2"	-	HINGE FASTENERS	ST/ST	PH SMS
M24	#10 X 3/4"	-	FIX. PANEL FASTENERS, AT 6" FROM ENDS & 12" O.C.	ST/ST	PH SMS
M25	#12 X 1-3/4"	-	FRAME ASSEMBLY FASTENERS	ST/ST	PH SMS
M26	3/8-16 X 2"	-	LEAF/PANEL ASSEMBLY FASTENERS	ST/ST	HEX CAP FULL THREAD 18-8
M27	-	-	3/8" WASHER	ST/ST	HEX CAP FULL THREAD 18-8
M29	#10 X 1-3/4"	AS REQD.	HEAD ASSEMBLY FASTENERS	ST/ST	PH SMS

LOCKS:

ACTIVE LEAF:

CONCEALED DOOR LOCKSET WITH HANDLE
BY 'BALDWIN' LOCATED AT 37" FROM BOTTOM
INTERIOR THROW BOLT LOCATED AT 45" FROM BOTTOM
1/2" X 2" THROW BOLT'S ENGAGING FRAME AT HEAD AND SILL
LOCATED AT 12" FROM TOP AND BOTTOM
MANUALLY OPERATED LEVERS MOUNTED ON STILE FACE
LOCK FASTENED TO STILE WITH (2) #8-32 X 1/2" FH MS

INACTIVE LEAF:

CONCEALED FLUSH BOLTS FB-1202 BY 'SULLIVAN & ASSOCIATES'
1/2" X 2" THROW BOLTS ENGAGING FRAME AT HEAD AND SILL
MANUALLY OPERATED LEVERS MOUNTED ON INSIDE FACE
OF LEAF STILE LOCATED AT 12" FROM TOP AND BOTTOM
LOCK FASTENED TO STILE WITH (2) #8-32 X 1/2" FH MS

HINGES:

STAINLESS STEEL ATHENA HINGES BY 'SECURISTYLE'
FASTENED WITH 12-24 X 1/2" FH MACHINE SCREWS
FOUR PER HASP(LEAF).
TOP HINGES AT 9" FROM TOP
BOTTOM HINGES AT 7-1/2" FROM BOTTOM
(1) HINGE AT MIDSPAN

SEALANTS:

ALL FRAME AND LEAF JOINTS AND SEAMS SEALED
WITH DOWSIL 791 SILICONE.

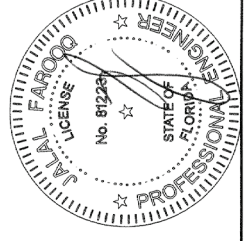
PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. **23-0714.10**

Expiration Date **01/04/2028**

By Blang I. Llanha

Miami-Dade Product Control



JUL 07 2023

drawing no.
21-06D
sheet 10 of 12

date: 09-17-21
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

revisions:	no	date	description
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	B	06.29.23	NO CHANGE THIS SHEET

ES-EL300-9 ALUMINUM OUTSWING DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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

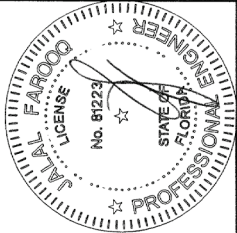


COMP-ANL\21-06D-ES

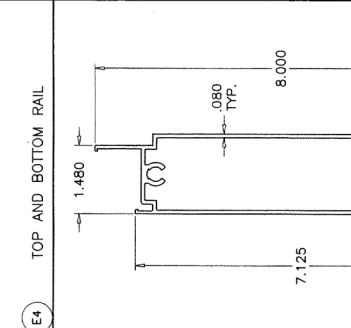
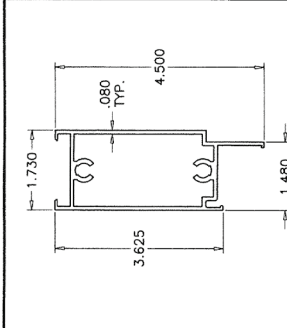
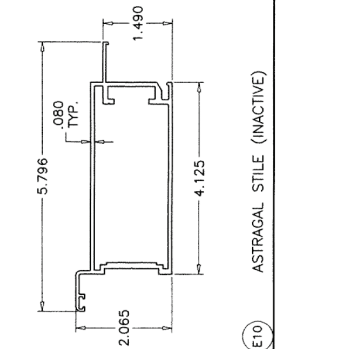
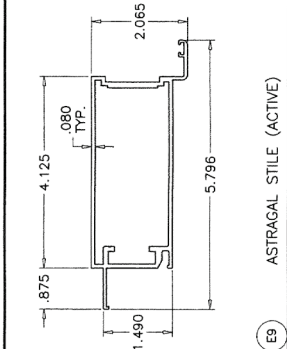
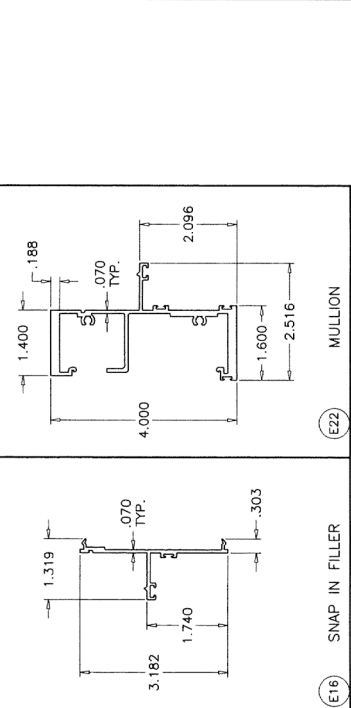
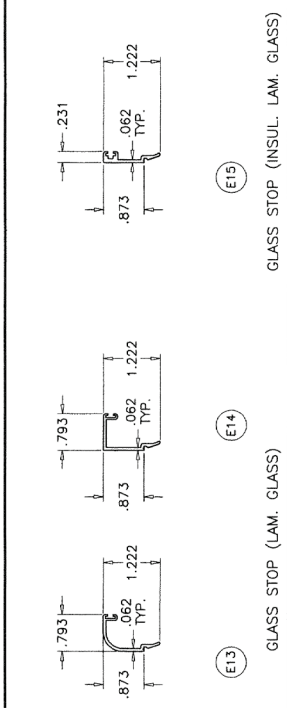
AL-FAROOQ CORPORATION
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E.S. WINDOWS, LLC
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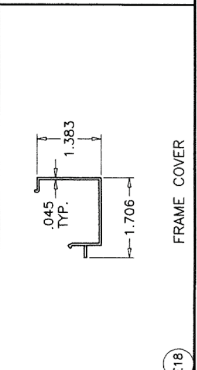
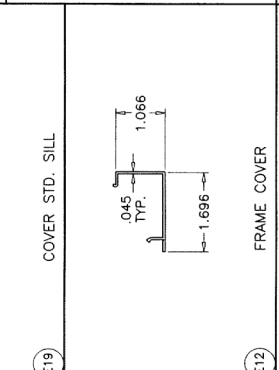
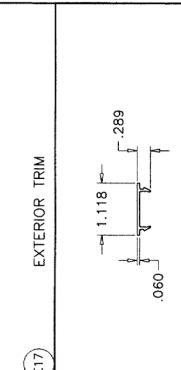
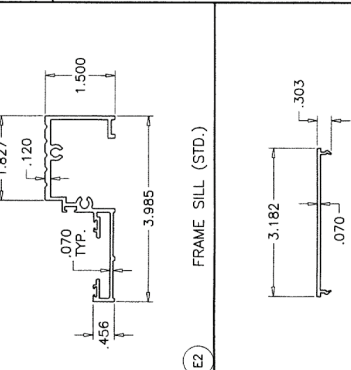
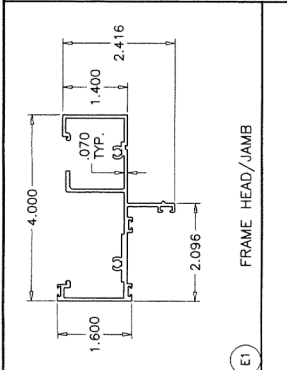
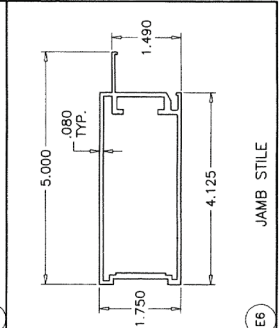
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scale:	3/8" = 1"
dr. by:	TARIO
chk. by:	
no.	03.10.22
date	06.29.23
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revisions:	NO CHANGE THIS SHEET



JUL 07 2023

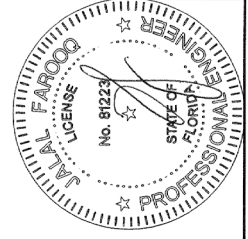


PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. 23-0714.10
 Expiration Date 01/04/2028
 By *Iskender L. Lhank*
 Miami-Dade Product Control

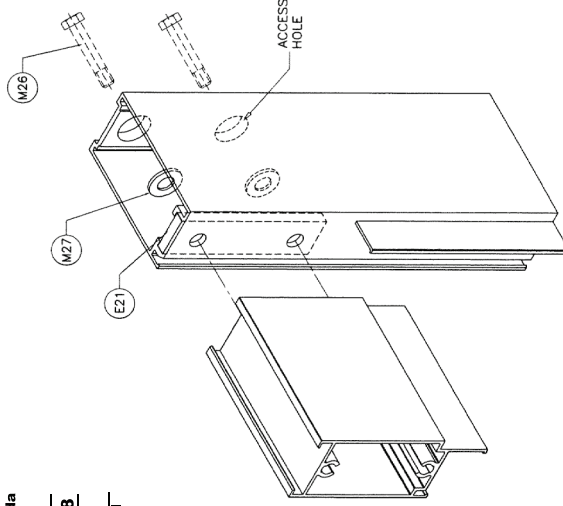


COMP-ANL 21-06D-ES

drawing no.
21-06D
 sheet 11 of 12



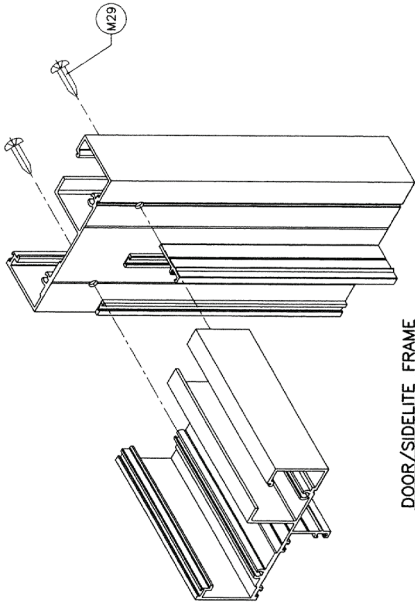
JUN 01 2023



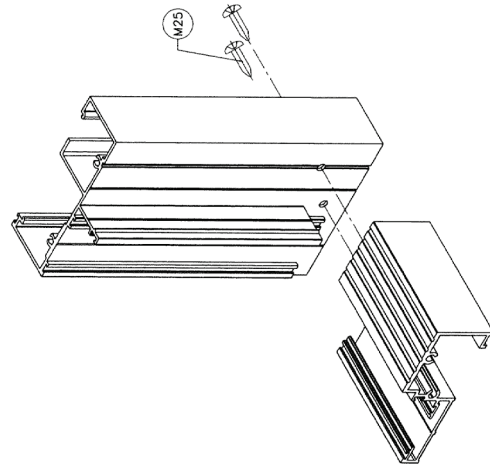
DOOR LEAF CORNER
SIDELITE PANEL CORNER

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0714.10
Expiration Date 01/04/2028

By Ismael L. Lopez
Miami-Dade Product Control



DOOR/SIDELITE FRAME
TOP CORNER



DOOR/SIDELITE FRAME
BOTTOM CORNER



A PROPOSED RESIDENCE
13633 83RD LN N
WEST PALM BEACH, FL. 33412

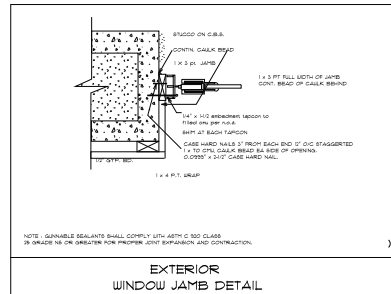
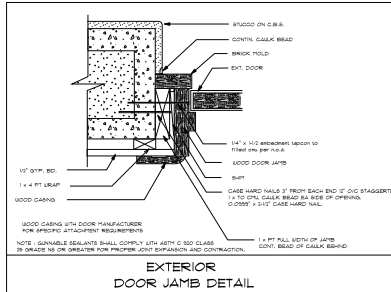
ALL WINDOWS AND DOORS TO HAVE BEEN TESTED TO MEET FBC STANDARDS.
USE THE FASTENING METHOD AS THE PRODUCT APPROVAL
DICTATES.
PAINT PROTECTO LUMSDO PRIOR TO DOING BUCK& 8" PERIMETER COMPLETE INSIDE JAMB.

WINDOW / DOOR / BUILDING GLASS DOOR BUCKS :

1/4 3 PT BUCKS :
WINDOWS USE 1 X 3 MIN. PT.
DOORS/SGD/FRENCH DOORS SEE SHEET D-1
FOR FASTENERS , THEN CONNECT WINDOW/DOOR/SGD FRENCH DOOR FRAMES
PER N.O.A.

2x4 BUCKS:
WINDOWS USE 2x4 MIN. PT DOORS/SGD/FRENCH DOORS USE 2x6 PT WITH 3/16" TAPCONS 1/4" EMBEDMENT INTO MASONRY 18" O/C &
FROM EACH END , THEN CONNECT WINDOW/DOOR/SGD/FRENCH WITH SCREWS PROVIDED WITH UNITS
AND PER ATTACHED N.O.A.

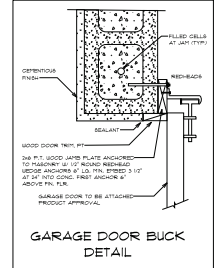
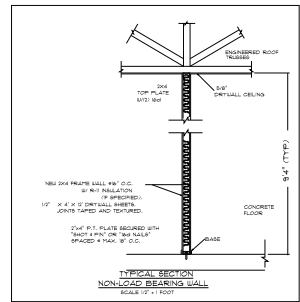
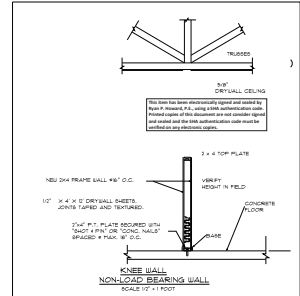
JOB LOCATION



FBC 2023, 8th EDITION
NO MPH 3-SEC GUST WIND SPEED
FBC 2023, 8th EDITION MECHANICAL CODE
FBC 2023, 8th EDITION PLUMBING CODE
FBC 2023, 8th EDITION RESIDENTIAL CODE
NEC 2020, NFPA 70 ELECTRICAL CODE
RISK CATEGORY : II
BLDG CAT. : VB
OCCUPANCY : R-3
EXPOSURE : C
WT. PRES. COEF. : 0.18
BUILDING : ENCLOSED
OPENING PROTECTION : IMPACT GLASS

SHEET LEGEND:
C-1 = COVER SHEET
O1 = FLOOR PLAN
O2 = ELEVATIONS
O3 = SLAB, BEAM, & COLUMN PLAN
T-1 = ROOF FRAMING LAYOUT
M-1 = MECHANICAL PLAN
D-1 = DETAIL SHEET
E-1 = ELECTRICAL PLAN
P-1 = PLUMBING PLAN

CONSTRUCTION INFORMATION
DO NOT SCALE DIMENSIONS FROM THIS SHEET
ALL DIMENSIONS ARE IN FEET AND INCHES
DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE
DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE
DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE

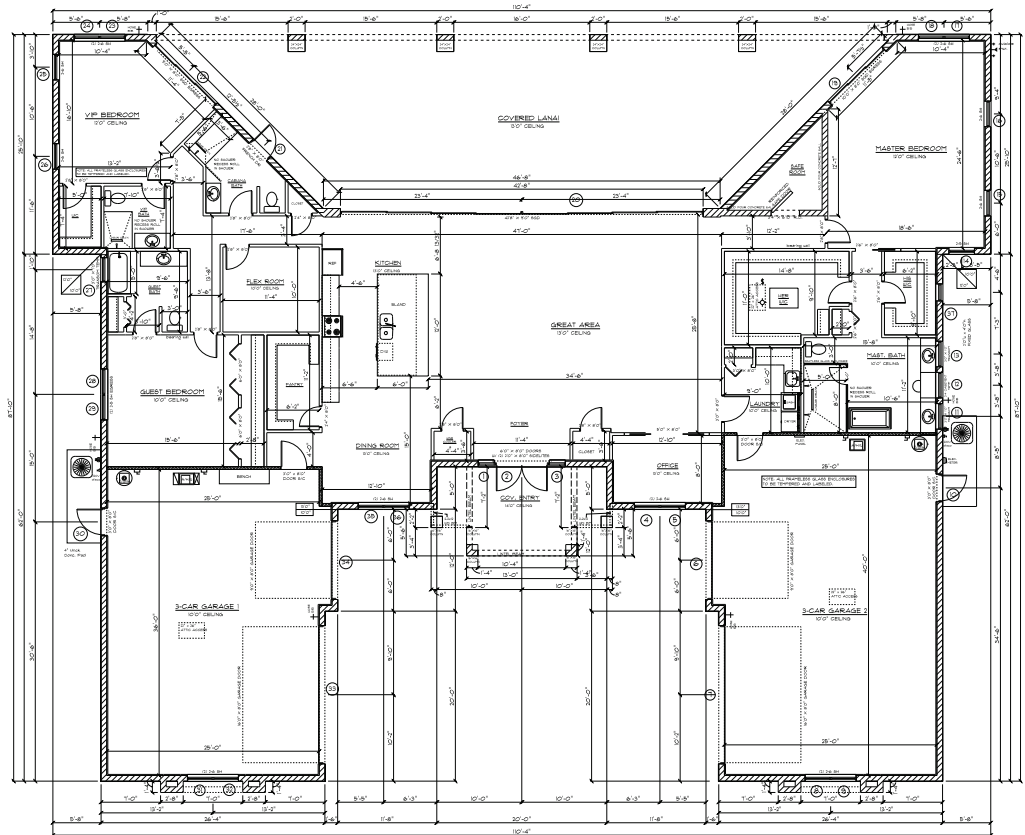


PROFESSIONAL ENGINEER
FL. LIC. # 68423
01/15/2015
13633 83RD LN N
WEST PALM BEACH, FL. 33412

DESIGNED BY:
CORAL KEY DESIGN INC.
CORAL KEY DESIGN INC.
13633 83RD LN N
WEST PALM BEACH, FL. 33412

JOB ADDRESS:
A PROPOSED RESIDENCE
13633 83RD LN N
WEST PALM BEACH, FL. 33412

COVER SHEET
SHEET
C-1

[illegible]

FLOOR PLAN
SCALE: 3/16" = 1'0"

AREA TABS		FBC 2023, 8th EDITION	
A/C LIVING AREA:	3998 SQ FT	10 MPH 3-4EG GUST WIND SPEED	
3-CAR GARAGE:	981 SQ FT	FBC 2023, 8th EDITION MECHANICAL CODE	
3-CAR GARAGE 2:	1084 SQ FT	FBC 2023, 8th EDITION PLUMBING CODE	
COVERED LANAI:	1371 SQ FT	FBC 2023, 8th EDITION ELECTRICAL CODE	
COVERED ENTRY:	336 SQ FT	NEC 2020, NFPA 10 ELECTRICAL CODE	
		1.1K CATEGORY: 1	
		BLDG CLASS: B	
		OCCUPANCY: R-3	
		EXPOSURE: C	
TOTAL UNDER AIR:	3998 SQ FT	NT, REFR, COER, A-C, G.B.	
		BUILDING: BUILT	
TOTAL AREA:	7716 SQ FT	OPENING PROTECTION: IMPACT GLASS	



 **Coral Key Design, Inc.**
3731 miller ave.
West Palm Beach, FL 33405
561-722-3890

AN HOWARD, PE
L. LIC. # 67403
5 VIA MILANO CT,
ERMONT, FL. 34711
407-463-0474

REVISION: _____
DATE: 10/0

PROPOSED RESIDENCE
13633 83RD LN N
WEST PALM BEACH, FL. 33412

CUSTOMER:
CORY BEATON

JOB# 24-XXX
SHEET
01



This item has been electronically signed and sealed by Ryan P. Howard, P.E., using a TSA authentication code. Printed copies of this document are not consider signed and sealed and the TSA authentication code must be verified on any electronic copies.



THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND OTHER INFORMATION. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER OF RECORD.

 **Coral Key Design, Inc.**
3731 miller ave.
West Palm Beach, FL 33405
561-722-3890

RYAN HOWARD, PE
FL LIC. # 67403
10525 VIA MILANO CT.
CLERMONT, FL 34711
407-463-0474

REVISION:
DATE: 10/09/2024

OB ADDRESS:
3633 83RD LN N

ELEVATIONS

CUSTOMER:
CORY BEATON

SHEET
02

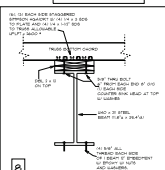
DESIGN PRESSURES FOR OPENINGS:

+31.8 PSF, -41.0 PSF ZONE 4 C.L. 4' FROM OUTSIDE CORNER
+31.8 PSF, -30.0 PSF ZONE 5 C.L. 4' LITHIN OUTSIDE CORNER
GARAGE DOOR, -31.8 PSF, -30.7 PSF

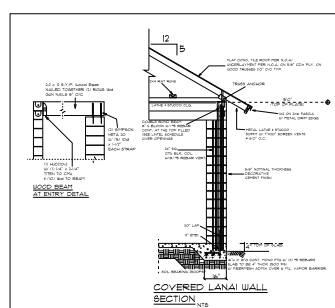
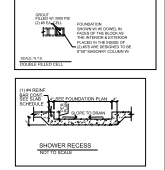
IBC 2015, 8th EDITION:
MEAN ROOF HEIGHT, 15'0"
WIND SPEED, 105 MPH
0-SECOND GUST WIND (SPEED)
RISK CATEGORY, 1
BLDG. CAT., VB
OCCUPANCY, R-3
EXPOSURE, C
NT. PRES. COEF., 0.18
BUILDING, ENGLOUED
OPENING PROTECTION, IMPACT GLASS



NOTE: TYPICAL SLAB & FOOTER
HORIZONTAL SLAB & F-100 FILL WITH REBAR TYP. &
VERTICAL, W-1 & F-100 FILL WITH REBAR TYP.

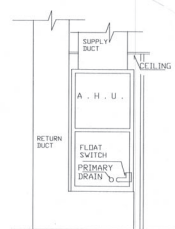


DBL FILLED DETAIL

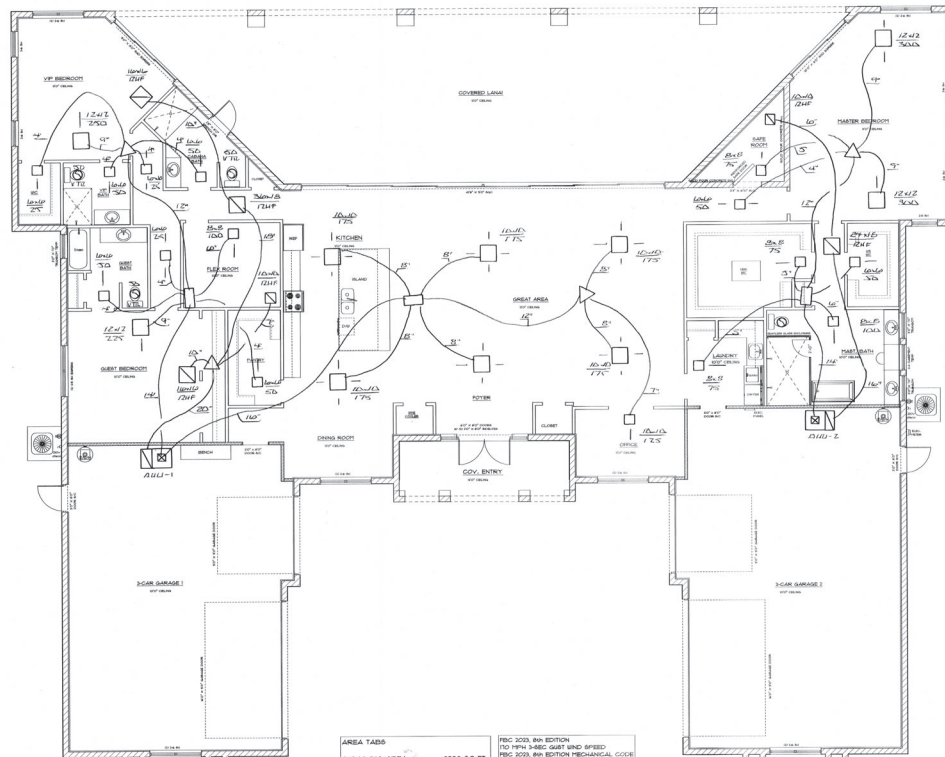


UNITEL CHART									
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67	595	596	597	598	599	600	601	602	603
68	604	605	606	607	608	609	610	611	612
69	613	614	615	616	617	618	619	620	621
70	622	623	624	625	626	627	628	629	630
71	631	632	633	634	635	636	637	638	639
72	640	641	642	643	644	645	646	647	648
73	649	650	651	652	653	654	655	656	657
74	658	659	660	661	662	663	664	665	666
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77	685	686	687	688	689	690	691	692	693
78	694	695	696	697	698	699	700	701	702
79	703	704	705	706	707	708	709	710	711
80	712	713	714	715	716	717	718	719	720
81	721	722	723	724	725	726	727	728	729
82	730	731	732	733	734	735	736	737	738
83	739	740	741	742	743	744	745	746	747
84	748	749	750	751	752	753	754	755	756
85	757	758	759	760	761	762	763	764	765
86	766	767	768	769	770	771	772	773	774
87	775	776	777	778	779	780	781	782	783
88	784	785	786	787	788	789	790	791	792
89	793	794	795	796	797	798	799	800	801
90	802	803	804	805	806	807	808	809	810
91	811	812	813	814	815	816	817	818	819
92	820	821	822	823	824	825	826	827	828
93	829	830	831	832	833	834	835	836	837
94	838	839	840	841	842	843	844	845	846
95	847	848	849	850	851	852	853	854	855
96	856	857	858	859	860	861	862	863	864
97	865	866	867	868	869	870	871	872	873
98	874	875	876	877	878	879	880	881	882
99	883	884	885	886	887	888	889	890	891
100	892	893	894	895	896	897	898	899	900

CELL LEGEND	
	12" x 12" CHG BLUE FLUO CELL, 10 (3) 16 REBAR UNIT, TYP.
	12" x 12" CHG BLUE FLUO CELL, 10 (3) 16 REBAR UNIT, TYP.
	12" 12" CHG BLUE COLUMN, 10, 16 REBAR VERT. TYP.
	12" 12" CHG BLUE COLUMN, 10, 16 REBAR VERT. TYP.
	12" x 12" FINISHED FLUO & FINISHED CONCRETE COLUMN, 10, 16 REBAR VERTICAL, 10, 16 REBAR SCOPE OF D.C. TYPICAL, TOP OF COLUMN + 8"00 A.B.F.



AC - 2
EQUIPMENT SCHEDULE
GOODMAN
3 TON
C.U. - GLZ54BA36
A.H.U. - AMST36CU
HEAT - 5 KW
COOL CAP. - 35,000
HEAT CAP. - 35,000
ELECT - 208-230-1
BRKR CU- 35 AHU-30
REF. LINES - 3/4 & 3/8
S.E.E.R. - 15.00
HSPF2 - 7.50



MECHANICAL PLAN
SCALE: 3/16" = 1'0"

AREA TABS		PEG 2023, RN EDITION 10 MPH 3-AGE GUST WIND SPEED PEG 2023, RN EDITION MECHANICAL CODE PEG 2023, RN EDITION PLUMBING CODE PEG 2023, RN EDITION RESIDENTIAL CODE NIG 2020, NFPA 70 ELECTRICAL CODE NIG CATEGORY: I BUILDING CLASS: V-B OCCUPANCY: R-3 EXPOSURE: C NT, HRA, CORP, A1-C-B BUILDING: ENCLOSED OPENING PROTECTION: IMPACT GLASS
A/C LIVING AREA:	2938 SQ FT	
3-CAR GARAGE 1:	981 SQ FT	
3-CAR GARAGE 2:	1084 SQ FT	
COVERED LANAI:	131 SQ FT	
COVERED ENTRY:	146 SQ FT	
TOTAL UNDER AIR:	398 SQ FT	
TOTAL AREA:	7846 SQ FT	

This item has been electronically signed and sealed by
Ryan P. Howard, P.E., using a SHA authentication code.
Printed copies of this document are not consider sign
and sealed and the SHA authentication code must be
verified on any electronic copies.



THE CONTRACTOR IS RESPONSIBLE
FOR VERIFYING ALL DIMENSIONS
AND DISCREPANCIES
MAY BE REPORTED TO THE ENGINEER OF RECORD.



Coral Key Design, Inc.
3731 miller ave.
West Palm Beach, FL 33405
561-722-3890

RYAN HOWARD, PE
FL. LIC. # 67403
3525 VIA MELANO CT.
CLAREMONT, FL. 34711

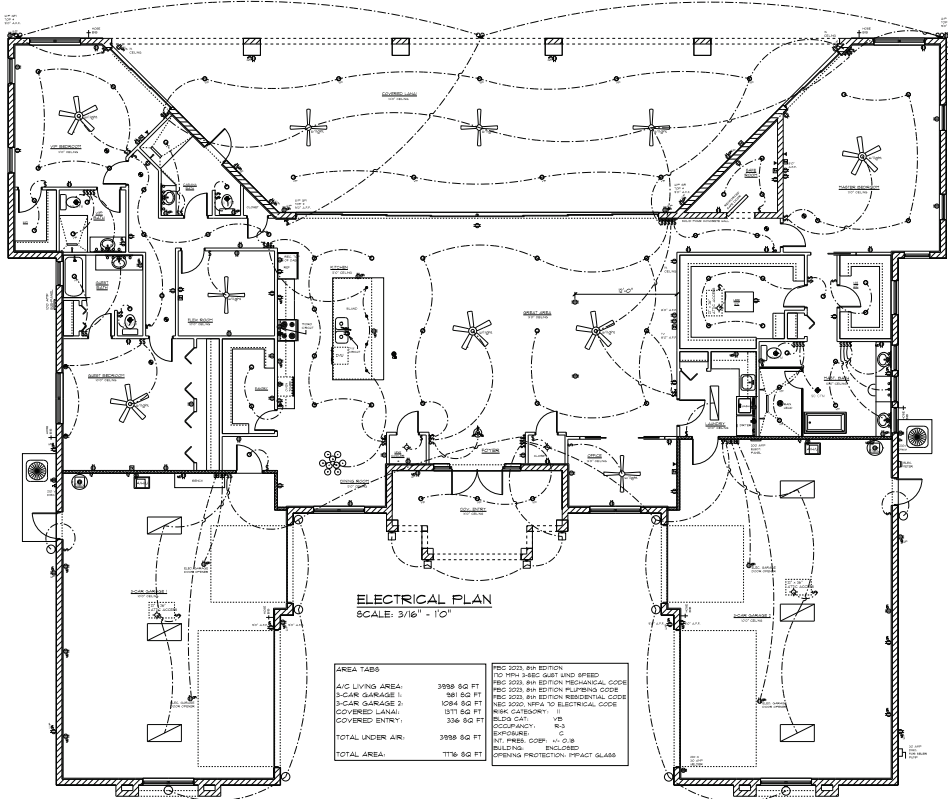
REVISION:

13633 83RD LN N

CUSTOMER:
CORY BEATON

JOB# 24-2

SHEET
M-1

[illegible][illegible]



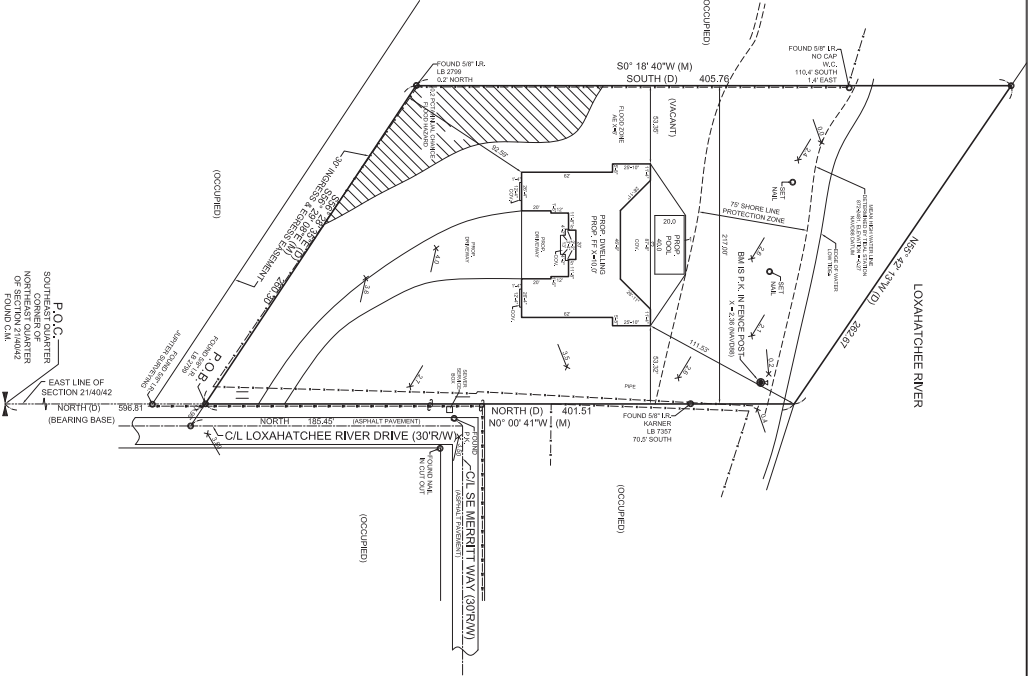
LEGAL DESCRIPTION (As furnished by client)

[illegible]

THE SURETY COVERED HEREIN IS NOT COVERED BY PROFESSIONAL LIABILITY INSURANCE



NOTES:

[illegible]

LEGEND:

- [illegible]

TRIANGLE
Land Surveying, Inc.
Surveying to Specification
LB # 2992

4750 Royal Palm Beach Boulevard
West Palm Beach, FL 33411
561-739-3966
ltiang62992@gmail.com

CERTIFIED TO: COREY BEATON		FILED DATE: MAY 21, 2025 RECEIVED AT: COUNTY CLERK'S OFFICE	SCALE: 1"=40' SECTION 87: CFC	ADDRESS: VACANT LAND SE LOXHATCHEE RIVER RD JUPITER, FL 33458
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Issues for record BLD2025080317**Job Address: 18250 SE LOXAHATCHEE RIVER RD, JUPITER FL 33458****Job Description: Construction of a Single Family Residence 7776sf**

No	Discipline	Status	Details	Attached To	Created By	Last Updated By	Modifications Required
20	Building	Open	BUILD - Protection of Appliances Appliances shall not be installed in a location subject to vehicle damage except where protected by approved barriers. • Water Heater & A/C installed in garage require barriers. 8th Edition (2023) FBC Residential M1307.3.1/M303.4		David Daversa	David Daversa	Yes
19	Building	Open	BUILD - Roof Clarification: Lanai Wall Section • Lanai wall section (sheet 03) indicates conc tile roof. • Typical wall section (sheet 01) indicates metal roof. Please review and revise for consistency. NOTE: elevations indicate metal roof. 8th Edition (2023) FBC Residential 107.2.1	03	David Daversa	David Daversa	Yes
18	Plumbing	Open	PLUMB - Size of drainage piping shall not be reduced in direction of flow • W.C.'s show 4 inch, reducing to 3" please revise. FBC/Residential P3005.4	P-1	Robert Smith	Robert Smith	Yes
17	Environmental	Open	ENVIRONMENTAL GENERAL COMPLIANCE Martin Count, LDR, Article 4, Division 1, Section 4.4.A.g.1 Protection of the Shoreline Protection Zone. Shoreline Protection Zones and any other designated upland preserve areas shall be protected from encroachment due to construction and/or building maintenance activities. Erosion control devices shall be installed and maintained throughout the duration of any construction activities adjacent to the Shoreline Protection Zone.(1)New construction proposed for areas adjacent to the Shoreline Protection Zone shall be set back a minimum of ten feet (or greater if warranted by specific site conditions) for primary structures. Minimum setbacks for accessory structures (pool decks, screen enclosures, driveways, etc.) shall be five feet. This setback is unrelated to setbacks associated with specific zoning districts. Last comment from reviewer: Revised survey/site plan was not submitted.		Gerry Carroll	Allison Brunner	Yes
16	Environmental	Answered	PAMP REQUIRED Please advise the property owner that a Preserve Area Management Plan (PAMP) is required to be completed (including recording) prior to permit issuance. Environmental Assessment is required. Separate PAMP application and completion may be required. (Previously approved unrecorded PAMP on file.) Contact Environmental Growth Management Division for more details at 772-288-5495 or via email at env@martin.fl.us.		Gerry Carroll	Cory Beaton	Yes

4/23/26, 3:26 PM

Plan Room

No	Discipline	Status	Details	Attached To	Created By	Last Updated By	Modifications Required
			Last comment from reviewer: Per notes of the 8/1/25 conversation. An Abbreviated PAMP would be required for this property for a 75' SPZ- an EA would be part of this application review. This separate application can be reviewed concurrently with a BLD permit, but must be approved before the BLD permit can be issued. Please contact Environmental Growth Management Division for more details at 772-288-5495 or via email at env@martin.fl.us. Last response: Please email the previously approved PAMP on record to cbeaton87@aol.com, thanks				
15	Zoning	Answered	LOT SIZE INCORRECT The lot is not meeting the minimum lot size requirement in this district. If the lot was created prior to the adoption of the current code, submit a copy of the deed showing the year the lot was created in the current configuration. The zoning district min requirement is: 2 ACRES. Per Martin County Comp Plan, Chapter 4, Policy 4.1E.4 No submerged land areas waterward of the boundary described above shall be included under this definition. Submit corrections to all identified issues, a brief response/acknowledgment are required before you will be able to submit revised plans and documents as a new review package with the plan room. Please label Survey/Site Plans accordingly. To access your application and review the issues/notes please use the Martin County Online Portal ACA System. ADDITIONAL COMMENTS MAY APPLY Last comment from reviewer: This issue was not addressed. COMPREHESIVE PLAN: Policy 4.1E.4. Gross density. The permitted densities stipulated in section 4.4 (Goals, Objectives and Policies) and on the FLUM designations shall be gross residential densities and the gross land area of which this density is applied is described as follows. These densities shall be applied to contiguous land areas under common ownership, with the following provisions and exceptions: (1)In cases where land abuts the waters of the Atlantic Ocean, St. Lucie River, Indian River, Loxahatchee River, Intracoastal Waterway, Lake Okeechobee or any tributary or manmade canal, the boundary of the land shall be delineated as established by State Statutes.(2)No submerged land areas waterward of the boundary described above shall be included under this definition. LAND DEVELOPMENT REGULATIONS: Sec. 3.13. - Calculation of residential density. As set forth in Table 3.12.1, maximum residential density means the maximum number of residential dwelling units that may be developed per acre of gross land area on a parcel of land. The gross land area of a parcel shall include all contiguous land areas under		Gerry Carroll	Cory Beaton	Yes

No	Discipline	Status	Details	Attached To	Created By	Last Updated By	Modifications Required
			common ownership, including land to be dedicated for public or private rights-of-way, with the following provisions and exceptions: 3.13.A.Waterbodies. In cases where land abuts the waters of the Atlantic Ocean, St. Lucie River, Indian River, Loxahatchee River, Intracoastal Waterway, Lake Okeechobee and all tributaries and manmade canals thereof, the boundary of land shall be delineated as established by state statutes (Chapter 177, Part II, Coastal Mapping, as may be amended). 3.13.B.Submerged land areas. No submerged land areas waterward of the boundary described above shall be included in the calculation of gross site area. Last response: I'm going to break this down for you. 4.1E.4 FSS 253.12 Title to tidal lands vested in state.—The very 1st sentence. (1) Except submerged lands heretofore conveyed by deed or statute. This was formerly dry land that was dredged to widen the river. I retained ownership and it is part of my gross density calculation which is 2.01 acres contained within my LEGAL description which has been provided to you. I pay taxes on this land. The boundary has been delineated per the state statute. Are we clear? Second part. No submerged land areas waterward of the BOUNDARY described above shall be included. It does not say waterward of the MHWL. It adds the word BOUNDARY. Words have meaning. If the intent was to disallow use of ALL submerged lands, it could've said simply that, however it does not. The policy is very specific. Submerged land areas are rarely used for density purposes in the county because 99% of people do not OWN them. Rivers Edge is different. This policy is being applied in a new way contrary to past practice (precedence) within the area. I'm being personally targeted. I'm not entertaining this any further. Either remove the issue or deny the damn permit so i have cause of action against the county. I'm not providing any additional revisions until this resolved. Give this to Paul ASAP				
14	Environmental	Accepted	SEWAGE DISPOSAL SYSTEM Per Article 4. Division 7, Subdivision 2 Section 4.307 On-site sewage disposal system regulations: The septic tank must be set back 75ft from a drinking water well and 50ft from an irrigation well. Please indicate this on the site plan and resubmit. Submit corrections to all identified issues, a brief response/acknowledgment are required before you will be able to submit revised plans and documents as a new review package with the plan room. Please label Survey/Site Plans accordingly. To access your application and review the issues/notes please use the Martin County Online Portal ACA System. ADDITIONAL COMMENTS MAY APPLY Last comment from reviewer: 2/26/26 - Spoke with both utilities and the services are available for connectivity. Water: Town of Jupiter Utilities Call 561-741-2300 Sewer: Loxahatchee River E.C.D. Call 561-747-5700 Last response: As stated in my last response, this property will not have a Septic system. It is serviced by Sewer and City water		Gerry Carroll	Allison Brunner	Yes

No	Discipline	Status	Details	Attached To	Created By	Last Updated By	Modifications Required
13	Zoning	Answered	ADDRESS ON PLANS ARE INCORRECT Plans are showing the address of the proposed structure is located in Pam Beach County. Please revise plans to show the corrected address in Martin County. Submit corrections to all identified issues, a brief response/acknowledgment are required before you will be able to submit revised plans and documents as a new review package with the plan room. Please label Survey/Site Plans accordingly. To access your application and review the issues/notes please use the Martin County Online Portal ACA System. ADDITIONAL COMMENTS MAY APPLY Last comment from reviewer: Sheet C-1 Job Location map was not revised to the correct address/location. Please correct. Last response: I will have the map updated, thanks	C-1	Gerry Carroll	Cory Beaton	Yes
12	Environmental	Open	LAND CLEARING PLAN/PAGE A Land Clearing Page, separate from Site Plan, is required. Land clearing page shall include the following information: 1. Proposed limits of clearing (property corners locations to be staked for inspection) 2. Locations of on-site and/or adjacent preserve areas or wetlands 3. Locations of required barricades and/or erosion control devices (silt fence and/or stabilized berms) 4. List (species, height, DBH) and locations of native trees to be retained and their protection barricades 5. Location of permit box 6. Proposed locations of debris/materials stockpiles 7. Include note: "All prohibited trees/vegetation shall be removed during land clearing" *On-site preserve barricade inspection may be required prior to permit issuance where applicable Sample Land Clearing Plan: https://www.martin.fl.us/resources/sample-land-clearing-plan-pdf Last comment from reviewer: Land Clearing Plan/Page was not submitted. Please address.		Gerry Carroll	Allison Brunner	Yes
11	Building	Open	BUILD - Revision Correction Format When responding to review comments, submit a cover letter from the Architect or Engineer of record addressing each comment: • Reference the drawing sheet number where the correction may be found. • All revisions/corrections to the drawings must be clouded with a revision number and date. •• Please ONLY SUBMIT THE DRAWING SHEETS THAT ARE REVISED to address conditions of approval.		David Daversa	David Daversa	Yes

No	Discipline	Status	Details	Attached To	Created By	Last Updated By	Modifications Required
Last comment from reviewer: Issue still applies							
10	Building	Accepted	BUILD - Location Verification • Address on plan sheets is inconsistent with the application address. (shows a palm beach county location) • Job location map on sheet C-1 is inconsistent with the application address. NOTE: No building review completed until plans are updated with correct address information (may not be the correct plan) - A FULL BUILDING REVIEW REQUIRED UPON RESUBMITTAL. 8th Edition (2023) FBC Residential 107.2.1 Last comment from reviewer: correct plans submitted Last response: I will make sure to update the address/job location on the revised plan. Thank you	C-1	David Daversa	David Daversa	Yes
9	Building	Accepted	BUILD - Product Approval Checklist Please submit a copy of the Martin County Product Approval Checklist Form. • Form must be signed and sealed by the Architect or Engineer of Record to certify compliance with the building design criteria. • Scheduled components must match those submitted by the applicant. 8th Edition (2023) FBC Residential 107.3 & 107.2.1 Last response: It is included in my resubmittal		David Daversa	David Daversa	Yes
8	Electrical	Accepted	Electrical receptacle guest bedroom Walls two feet are greater need to have receptacle. NEC 210.52 Last response: I will have this fixed on the revised plans	E-1	Robert Smith	Robert Smith	Yes
7	Electrical	Accepted	Electrical receptacles in master Walls two feet are greater need receptacles. NEC 210.52 Last response: I will have this fixed on the revised plans	E-1	Robert Smith	Robert Smith	Yes
6	Electrical	Accepted	ELECT - Kitchen Island / Peninsula Receptacle Outlet Roughly 72 sf - (5) receptacle outlets Island/peninsula requires 1 outlet for 1st 9 SF countertop + 1 outlet for each 18 SF, or fraction thereof, of additional countertop. • Please provide (x) additional receptacle outlet(s) as required. • NOTE: Receptacle outlets located below countertop overhang of 6" or more do not qualify. NEC 210.52 (C) (2) Island and Peninsular Countertops and Work Surfaces	E-1	Robert Smith	Robert Smith	Yes

No	Discipline	Status	Details	Attached To	Created By	Last Updated By	Modifications Required
			Last comment from reviewer: Overhang appears to be greater than 6 inches, so 3 of the receptacle outlets dont qualify to meet the requirements above, not duplex receptacle is still only considered 1 receptacle outlet, please provide as previously requested.				
5	Electrical	Accepted	ELECT - Surge Protective Device Installation of Surge Protective Device (SPD) required NOTE: New requirement under NEC 2020 code as adopted by 8th Edition (2023) FBC Please acknowledge on the electrical riser that a surge protection device will be installed The SPD shall be a Type I or Type 2 SPD (230.67(C)) NFPA 70 / NEC 2020 Article 230.67 Surge Protection Last response: I will make sure this is added to the electrical riser and on the plans	E-1	Robert Smith	Robert Smith	Yes
4	Plumbing	Accepted	PLUMB - Sanitary Riser Required • No sanitary riser submitted. • Sanitary riser is a schematic depicting the proposed location and size of all sanitary drainage piping, fixture locations, cleanouts and vents 8th Edition (2023) FBC Plumbing Chapter 7 8th Edition (2023) FBC Residential 107.2.1 / P3005 / P3113.1 Last response: Plumbing page added to plans		Robert Smith	Robert Smith	Yes
3	Mechanical	Accepted	MECH - Energy Calculations Required Show Climate Zone 1, needs to be Climate zone 2 • shows wrong address located in Palm Beach County • needs to be climate zone 2. • reSubmit 1 copy of Energy Calculations Form must be 402/405 signed by preparer 8th Edition (2023) FBC Energy Conservation Appendix C Forms NOTE: Design Location should be West Palm Beach NOTE: Climate Zone 2 required for Martin County 8th Edition (2023) FBC Energy Conservation Last response: Address and climate zone were revised and resigned.	COREEY B ENER CLCS (1).pdf	Robert Smith	Robert Smith	Yes
2	Floodplain Administration	Accepted	Flood protection The construction plans have an address listed for a property in West Palm Beach. Provide a revised plan set reflecting the correct site address. The Engineer's digital signature and seal are not valid. Signing and Sealing of Engineered documents must follow Florida Statute 471.025. Last comment from reviewer: This property lies within a Special Flood Hazard Area having a Base Flood Elevation of 6 feet NAVD88. The applicant proposes to construct the new structure with a minimum finished floor elevation of 9.14 feet NAVD88 (10' - 4" step - 6.25" slope) in the attached garage, the lowest elevation, which is more than one foot above the Base Flood Elevation for the Special Flood Hazard Area. All mechanical equipment must be set above elevation 7 feet NAVD88.		Christine Madsen	Christine Madsen	Yes

4/23/26, 3:26 PM

Plan Room

No	Discipline	Status	Details	Attached To	Created By	Last Updated By	Modifications Required
Last response: Engineer resealed with corrected address and proper seal							
1	Driveway	Answered	Driveway Requirements A driveway site plan must be submitted with the following information: • Annotate on the plan what Martin County Standard Detail for driveways is being used R-91A or R-91B for reference. When using R-91A, R-35 needs to be followed as well. • Proposed material shall be provided. • Provide existing and proposed elevations. • Cross section detailed with elevations where the driveway crosses a roadside swale or driveway culvert. • Existing roadside drainage shall not be blocked. • If the roadside swales do not exist, the driveway shall be graded to provide for a minimum of 0.2-foot fall, seven (7) feet from the edge of the pavement. • The maximum change in grade for a single-family home on a local street cannot exceed 10%, unless approved by the County Engineer. • Driveway Width's must be shown. (Maximum of 30 feet at the property line including one or two driveways). For driveways following R-91A, the following additional information is needed: • Proposed invert elevations of the driveway culvert must be shown. • Sizes and invert elevations of neighboring driveway culverts (upstream and downstream) must be shown. • Pipe size of the culvert must be a minimum of 15-inches or match the pipe sizes of the neighboring driveway culverts (whichever is greater). Last comment from reviewer: The portion of the driveway that will be in the Right of Wany needs to comply with Martin County standards. Please review the list of issues above for county standards. Last response: Current driveway actively complies with and will continue to comply with all Martin County standards.		Peter Bernatski	Cory Beaton	Yes

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST**Florida Department of Business and Professional Regulation
Simulated Performance Alternative (Performance) Method**

Applications for compliance with the 2023 Florida Building Code, Energy Conservation via the Residential Simulated Performance Alternative shall include:

- ☒ This checklist
- ☒ Form R405-2023 report
- ☒ Input summary checklist that can be used for field verification (usually four pages/may be greater)
- ☒ Energy Performance Level (EPL) Display Card (one page)
- ☒ HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7
- ☒ Mandatory Requirements (five pages)

Required prior to CO:

- ☐ Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)
- ☐ A completed 2023 Envelope Leakage Test Report (usually one page); exception in R402.4 allows dwelling units of R-2 Occupancies and multiple attached single family dwellings to comply with Section C402.5
- ☐ If Form R405 duct leakage type indicates anything other than "default leakage", then a completed 2023 Duct Leakage Test Report - Performance Method (usually one page)

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: BEATON RESIDENCE Street: 13633 83rd LANE NORTH City, State, Zip: WEST APLM BEACH, FL, Owner: Design Location: FL, West Palm Beach	Builder Name: Permit Office: WEST PALM BEACH Permit Number: Jurisdiction: County: Palm Beach(Florida Climate Zone 1)
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<table border="0" style="width:100%;"> <tr> <td style="width:35%;">1. New construction or existing</td> <td style="width:35%; text-align: right;">New (From Plans)</td> <td style="width:30%;"></td> </tr> <tr> <td>2. Single family or multiple family</td> <td style="text-align: right;">Detached</td> <td></td> </tr> <tr> <td>3. Number of units, if multiple family</td> <td style="text-align: right;">1</td> <td></td> </tr> <tr> <td>4. Number of Bedrooms</td> <td style="text-align: right;">3</td> <td></td> </tr> <tr> <td>5. Is this a worst case?</td> <td style="text-align: right;">No</td> <td></td> </tr> <tr> <td>6. Conditioned floor area above grade (ft²)</td> <td style="text-align: right;">3998</td> <td></td> </tr> <tr> <td>Conditioned floor area below grade (ft²)</td> <td style="text-align: right;">0</td> <td></td> </tr> <tr> <td>7. Windows(850.3 sqft.)</td> <td style="text-align: right;">Description</td> <td style="text-align: right;">Area</td> </tr> <tr> <td>a. U-Factor:</td> <td style="text-align: right;">Sgl, U=0.96</td> <td style="text-align: right;">850.33 ft²</td> </tr> <tr> <td>SHGC:</td> <td style="text-align: right;">SHGC=0.32</td> <td></td> </tr> <tr> <td>b. U-Factor:</td> <td style="text-align: right;">N/A</td> <td style="text-align: right;">ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> <td></td> </tr> <tr> <td>c. U-Factor:</td> <td style="text-align: right;">N/A</td> <td style="text-align: right;">ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> <td></td> </tr> <tr> <td>Area Weighted Average Overhang Depth:</td> <td style="text-align: right;">12.746 ft</td> <td></td> </tr> <tr> <td>Area Weighted Average SHGC:</td> <td style="text-align: right;">0.320</td> <td></td> </tr> <tr> <td>8. Skylights</td> <td style="text-align: right;">Description</td> <td style="text-align: right;">Area</td> </tr> <tr> <td>U-Factor:(AVG)</td> <td style="text-align: right;">N/A</td> <td style="text-align: right;">N/A ft²</td> </tr> <tr> <td>SHGC(AVG):</td> <td style="text-align: right;">N/A</td> <td></td> </tr> <tr> <td>9. Floor Types</td> <td style="text-align: right;">Insulation</td> <td style="text-align: right;">Area</td> </tr> <tr> <td>a. Slab-On-Grade Edge Insulation</td> <td style="text-align: right;">R= 0.0</td> <td style="text-align: right;">3998.00 ft²</td> </tr> <tr> <td>b. N/A</td> <td style="text-align: right;">R=</td> <td style="text-align: right;">ft²</td> </tr> <tr> <td>c. N/A</td> <td style="text-align: right;">R=</td> <td style="text-align: right;">ft²</td> </tr> </table>	1. New construction or existing	New (From Plans)		2. Single family or multiple family	Detached		3. Number of units, if multiple family	1		4. Number of Bedrooms	3		5. Is this a worst case?	No		6. Conditioned floor area above grade (ft ²)	3998		Conditioned floor area below grade (ft ²)	0		7. Windows(850.3 sqft.)	Description	Area	a. U-Factor:	Sgl, U=0.96	850.33 ft ²	SHGC:	SHGC=0.32		b. U-Factor:	N/A	ft ²	SHGC:			c. U-Factor:	N/A	ft ²	SHGC:			Area Weighted Average Overhang Depth:	12.746 ft		Area Weighted Average SHGC:	0.320		8. Skylights	Description	Area	U-Factor:(AVG)	N/A	N/A ft ²	SHGC(AVG):	N/A		9. Floor Types	Insulation	Area	a. Slab-On-Grade Edge Insulation	R= 0.0	3998.00 ft ²	b. N/A	R=	ft ²	c. N/A	R=	ft ²	<table border="0" style="width:100%;"> <tr> <td style="width:35%;">10. Wall Types(4344.0 sqft.)</td> <td style="width:35%; text-align: right;">Insulation</td> <td style="width:30%; text-align: right;">Area</td> </tr> <tr> <td>a. Concrete Block - Int Insul, Exterior</td> <td style="text-align: right;">R=4.1</td> <td style="text-align: right;">3540.00 ft²</td> </tr> <tr> <td>b. 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Glass/Floor Area: 0.213	Total Proposed Modified Loads: 137.20	PASS
	Total Baseline Loads: 147.16	
NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply		

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: <u>Robert J. [Signature]</u> DATE: <u>2/18/25</u> I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: _____ DATE: _____	Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes. BUILDING OFFICIAL: _____ DATE: _____
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- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Default duct leakage does not require a Duct Leakage Test Report.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 6.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	BEATON RESIDENCE	Bedrooms:	3	Address type:	Street Address
Building Type:	User	Conditioned Area:	3998	Lot #:	---
Owner:		Total Stories:	1	Block/SubDivision:	---
Builder Home ID:		Worst Case:	No	PlatBook:	---
Builder Name:		Rotate Angle:	0	Street:	13633 83rd LANE NORTH
Permit Office:	WEST PALM BEACH	Cross Ventilation:		County:	Palm Beach
Jurisdiction:		Whole House Fan:		City, State, Zip:	WEST APLM BEACH, FL,
Family Type:	Detached	Terrain:	Suburban		
New/Existing:	New (From Plans)	Shielding:	Suburban		
Year Construct:	2025				
Comment:					

CLIMATE

✓ Design Location	Tmy Site	Design Temp 97.5% 2.5%	Int Design Temp Winter Summer	Heating Degree Days	Design Moisture	Daily temp Range
___ FL, West Palm Beach	FL_WEST_PALM_BEACH_INT	44 90	70 75	316	60	Medium

BLOCKS

✓ Number	Name	Area	Volume
___ 1	Block1	2888	34656 cu ft
___ 2	Block2	1110	13320 cu ft

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	2888	34656	Yes	4	2	Yes	Yes	Yes
___ 2	Master Bedroom	1110	13320	Yes	2	1	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 3998 sq.ft.)

✓ #	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim. Joist	U-Factor	Slab Insul. Vert/Horiz	Tile	Wood	Carpet
___ 1	Slab-On-Grade Edge Ins	Main	232	2888 sqft	0.0 ---	0.304	0 (ft)/0 (ft)	0.00	0.00	1.00
___ 2	Slab-On-Grade Edge Ins	Master Bedroom	130	1110 sqft	0.0 ---	0.304	0 (ft)/0 (ft)	0.00	0.00	1.00

ROOF

✓ #	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1	Hip	Metal	4331 ft²	0 ft²	0.11	Medium	N	0.96	No	0.9	No	0	22.62

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	150	3998 ft²	N	N

INPUT SUMMARY CHECKLIST REPORT

CEILING										(Total Exposed Area = 3998 sq.ft.)			
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type					
1	Flat ceiling under attic(Vented)	Main	30.0	Blown	2888.0ft²	0.030	0.11	Wood					
2	Flat ceiling under attic(Vented)	Master Bedroom	30.0	Blown	1110.0ft²	0.030	0.11	Wood					

WALLS										(Total Exposed Area = 4344 sq.ft.)			
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade
1	N	Exterior	Conc. Blk - Int Ins	Main	4.1	58.0 0	12.0 0	696.0	0.149		0	0.15	0 %
2	NE	Exterior	Conc. Blk - Int Ins	Main	4.1	29.0 0	12.0 0	348.0	0.149		0	0.15	0 %
3	E	Exterior	Conc. Blk - Int Ins	Main	4.1	6.0 0	12.0 0	72.0	0.149		0	0.15	0 %
4	S	Exterior	Conc. Blk - Int Ins	Main	4.1	56.0 0	12.0 0	672.0	0.149		0	0.15	0 %
5	W	Exterior	Conc. Blk - Int Ins	Main	4.1	51.0 0	12.0 0	612.0	0.149		0	0.15	0 %
6	N	Garage	Frame - Steel	Main	11.0	27.0 0	12.0 0	324.0	0.154		0.11	0.15	0 %
7	E	Garage	Frame - Steel	Main	11.0	5.0 0	12.0 0	60.0	0.154		0.11	0.15	0 %
8	N	Exterior	Conc. Blk - Int Ins	Master Bedroom	4.1	12.0 0	12.0 0	144.0	0.149		0	0.15	0 %
9	E	Exterior	Conc. Blk - Int Ins	Master Bedroom	4.1	46.0 0	12.0 0	552.0	0.149		0	0.15	0 %
10	S	Exterior	Conc. Blk - Int Ins	Master Bedroom	4.1	6.0 0	12.0 0	72.0	0.149		0	0.15	0 %
11	NW	Exterior	Conc. Blk - Int Ins	Master Bedroom	4.1	31.0 0	12.0 0	372.0	0.149		0	0.15	0 %
12	N	Garage	Frame - Steel	Master Bedroom	11.0	27.0 0	12.0 0	324.0	0.154		0.11	0.15	0 %
13	W	Garage	Frame - Steel	Master Bedroom	11.0	8.0 0	12.0 0	96.0	0.154		0.11	0.15	0 %

DOORS										(Total Exposed Area = 96 sq.ft.)			
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area				
1	E		Insulated	Main	None	0.46	6.00 0	8.00 0	48.0ft²				
2	N		Wood	Main	None	0.46	3.00 0	8.00 0	24.0ft²				
3	N		Wood	Master Bedroom	None	0.46	3.00 0	8.00 0	24.0ft²				

WINDOWS										(Total Exposed Area = 850 sq.ft.)							
✓ #	Ornt	Wall ID	Frame	Panes	NFRC U-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Sep. (ft)	Interior Shade	Screen	
1	N	1	Metal	Single (Tinted)	Y	0.96	0.32	N	N	36.0	1	6.00	6.00	2.0	2.0	None	None
2	NE	2	Metal	Single (Tinted)	Y	0.96	0.32	N	N	48.0	1	6.00	8.00	8.0	1.0	None	None
3	NE	2	Metal	Single (Tinted)	Y	0.96	0.32	N	N	21.3	1	2.67	8.00	18.0	1.0	None	None
4	N	1	Metal	Single (Tinted)	Y	0.96	0.32	N	N	387.0	1	43.00	9.00	22.0	1.0	None	None
5	NW	11	Metal	Single (Tinted)	Y	0.96	0.32	N	N	80.0	1	10.00	8.00	10.0	1.0	None	None
6	N	8	Metal	Single (Tinted)	Y	0.96	0.32	N	N	36.0	1	6.00	6.00	2.0	2.0	None	None
7	E	9	Metal	Single (Tinted)	Y	0.96	0.32	N	N	18.0	1	3.00	6.00	2.0	2.0	None	None
8	E	9	Metal	Single (Tinted)	Y	0.96	0.32	N	N	18.0	1	3.00	6.00	2.0	2.0	None	None
9	S	10	Metal	Single (Tinted)	Y	0.96	0.32	N	N	15.0	1	3.00	5.00	2.0	2.0	None	None
10	E	9	Metal	Single (Tinted)	Y	0.96	0.32	N	N	3.0	1	3.00	1.00	2.0	2.0	None	None
11	E	9	Metal	Single (Tinted)	Y	0.96	0.32	N	N	12.0	1	3.00	4.00	2.0	2.0	None	None
12	E	9	Metal	Single (Tinted)	Y	0.96	0.32	N	N	3.0	1	3.00	1.00	2.0	2.0	None	None
13	S	4	Metal	Single (Tinted)	Y	0.96	0.32	N	N	36.0	1	6.00	6.00	2.0	2.0	None	None
14	S	4	Metal	Single (Tinted)	Y	0.96	0.32	N	N	16.0	1	2.00	8.00	6.0	3.0	None	None
15	S	4	Metal	Single (Tinted)	Y	0.96	0.32	N	N	16.0	1	2.00	8.00	6.0	3.0	None	None
16	S	4	Metal	Single (Tinted)	Y	0.96	0.32	N	N	36.0	1	6.00	6.00	2.0	2.0	None	None
17	W	5	Metal	Single (Tinted)	Y	0.96	0.32	N	N	30.0	1	6.00	5.00	2.0	2.0	None	None
18	W	5	Metal	Single (Tinted)	Y	0.96	0.32	N	N	3.0	1	3.00	1.00	2.0	2.0	None	None
19	W	5	Metal	Single (Tinted)	Y	0.96	0.32	N	N	18.0	1	3.00	6.00	2.0	2.0	None	None
20	W	5	Metal	Single (Tinted)	Y	0.96	0.32	N	N	18.0	1	3.00	6.00	2.0	2.0	None	None

INPUT SUMMARY CHECKLIST REPORT

INFILTRATION

✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00046	4798	263.21	494.15	0.1492	6.0	All	47976 cu ft

GARAGE

✓ #	Floor Area	Length	Width	Roof Area	Exposed Perimeter	Area Under Uncond.	Avg. Wall Height	Exposed Wall Insulation
___ 1	2065 ft²	25.0 ft²	82.6 ft²	2065 ft²	64 ft	2065 ft	12 ft	1

MASS

✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main
___ 2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Master Bedroom

HEATING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump---	Ducts	Block
						Entry Power Volt Current		
___ 1	Electric Heat Pump	None/Single		HSPF2: 8.20	57.0	0.00 0.00 0.00	sys#1	1
___ 2	Electric Heat Pump	None/Single		HSPF2: 7.50	35.0	0.00 0.00 0.00	sys#2	2

COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	None/Single		SEER2:14.5	56.5	1695	0.75	sys#1	1
___ 2	Central Unit	None/Single		SEER2:15.0	35.0	1050	0.75	sys#2	2

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipe length
___ 1	Electric	None	Garage	0.92 (0.92)	40.0 gal	60 gal	120 deg	Standard	Yes	None	50
	Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits	
___ 1	No		NA	NA	NA	No	NA	NA	NA	None	

DUCTS

✓ Duct #	Location	Supply R-Value Area	Return R-Value Area	Leakage Type	AHU Location	CFM 25 TOT OUT	QN OUT	AHU SEALED	RLF	HVAC # Heat Cool
___ 1	Attic	6.0 150 ft²	Attic 6.0 55 ft²	Default Leakage	Garage	(Default) (Default)				1 1
___ 2	Attic	6.0 150 ft²	Attic 6.0 55 ft²	Default Leakage	Garage	(Default) (Default)				2 2

INPUT SUMMARY CHECKLIST REPORT**MECHANICAL VENTILATION**

✓ Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
___ None	0.0	0.0	0.0	0.0 W	0 %	1 - Electric Heat Pump	1 - Central Unit
___ None	0.0	0.0	0.0	0.0 W	0 %	2 - Electric Heat Pump	2 - Central Unit

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans: N

Cooling	☐ Jan	☐ Feb	☐ Mar	☐ Apr	☐ May	☒ Jun	☒ Jul	☒ Aug	☒ Sep	☐ Oct	☐ Nov	☐ Dec
Heating	☒ Jan	☒ Feb	☒ Mar	☐ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☐ Oct	☒ Nov	☒ Dec
Venting	☐ Jan	☐ Feb	☒ Mar	☒ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☒ Oct	☒ Nov	☐ Dec

✓	Thermostat Schedule: HERS 2006 Reference													
	Schedule Type	1	2	3	4	5	6	Hours	7	8	9	10	11	12
___	Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
		PM	80	80	78	78	78	78	78	78	78	78	78	78
___	Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
		PM	78	78	78	78	78	78	78	78	78	78	78	78
___	Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
		PM	68	68	68	68	68	68	68	68	68	68	66	66
___	Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
		PM	68	68	68	68	68	68	68	68	68	68	66	66

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 93

The lower the EnergyPerformance Index, the more efficient the home.

13633 83rd LANE NORTH, WEST APLM BEACH, FL,

1. New construction or existing	New (From Plans)	10. Wall Types(4344.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Concrete Block - Int Insul, Exterior	R=4.1	3540.00 ft ²
3. Number of units, if multiple family	1	b. Frame - Steel, Adjacent	R=11.0	804.00 ft ²
4. Number of Bedrooms	3	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	3998	11. Ceiling Types(3998.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=30.0	3998.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Sgl, U=0.96	c. N/A		
SHGC:	SHGC=0.32	12. Roof(Metal, Vented)	Deck R=0.0	4331 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Garage	6	150
c. U-Factor:	N/A	b. Sup: Attic, Ret: Attic, AH: Garage	6	150
SHGC:		c.		
Area Weighted Average Overhang Depth:	12.746 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.320	a. Central Unit	56.5	SEER2:14.50
8. Skylights	Description	b. Central Unit	35.0	SEER2:15.00
U-Factor:(AVG)	N/A	15. Heating Systems	kBtu/hr	Efficiency
SHGC(AVG):	N/A	a. Electric Heat Pump	57.0	HSPF2:8.20
9. Floor Types	Insulation	b. Electric Heat Pump	35.0	HSPF2:7.50
a. Slab-On-Grade Edge Insulation	R= 0.0	16. Hot Water Systems		
b. N/A	R=	a. Electric	Cap: 40 gallons	
c. N/A	R=	b. Conservation features	EF: 0.920	
			None	
		17. Credits	Pstat	

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: 13633 83rd LANE NORTH City/FL Zip: WEST APLM BEACH, FL,

*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.



Florida Building Code, Energy Conservation, 8th Edition (2023)

Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS: 13633 83rd LANE NORTH
WEST APLM BEACH, FL

Permit Number:

MANDATORY REQUIREMENTS - See individual code sections for full details.

SECTION R401 GENERAL

- ☐ **R401.3 Energy Performance Level (EPL) display card - (Mandatory).** The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.

SECTION R402 BUILDING THERMAL ENVELOPE

- ☐ **R402.2.10.1 Slab-on-grade floor insulation installation (Mandatory).** Where installed, the insulation shall extend downward from the top of the slab on the outside or inside of the foundation wall. Insulation located below grade shall be extended the distance provided in Table R402.1.2, or the distance of the proposed design as applicable, by any combination of vertical insulation, insulation extending under the slab or insulation extending out from the building. Insulation extending away from the building shall be protected by pavement or by not less than 10 inches (254 mm) of soil. The top edge of the insulation installed between the exterior wall and the edge of the interior slab shall be permitted to be cut at a 45-degree (0.79 rad) angle away from the exterior wall.
- ☐ **R402.2.11.1 Crawl space walls insulation installation (Mandatory).** Where crawl space wall insulation is installed, it shall be permanently fastened to the wall and extend downward from the floor to the finished grade level and then vertically and/or horizontally for at least an additional 24 inches (610 mm). Exposed earth in unvented crawl space foundations shall be covered with a continuous Class I vapor retarder in accordance with the Florida Building Code, Building, or Florida Building Code, Residential, as applicable. All joints of the vapor retarder shall overlap by 6 inches (153 mm) and be sealed or taped. The edges of the vapor retarder shall extend not less than 6 inches (153 mm) up the stem wall and shall be attached to the stem wall.
- ☐ **R402.4 Air leakage (Mandatory).** The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.
 - Exception:** Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.
- ☐ **R402.4.1 Building thermal envelope.** The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.
- ☐ **R402.4.1.1 Installation.** The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.
- ☐ **R402.4.1.2 Testing.** The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403.6.1 of this code and Section M1507.3 of the Florida Building Code, Residential. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.
 - Exception:** Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent of the building thermal envelope.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.
7. If an attic is both air sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting an infiltration volume and calculating the air leakage of the home.

Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

- ☐ **R402.4.2 Fireplaces.** New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.
- ☐ **R402.4.3 Fenestration air leakage.** Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m²), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m²), when tested according to NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.

Exception: Site-built windows, skylights and doors.
- ☐ **R402.4.4 Rooms containing fuel - burning appliances.** In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.

Exceptions:

 1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside.
 2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.
- ☐ **R402.4.5 Recessed lighting.** Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.
- ☐ **R402.4.6 Air-sealed electrical and communication boxes.** Air-sealed electrical and communication boxes that penetrate the air barrier of the building thermal envelope shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. Air-sealed boxes shall be buried in or surrounded by insulation. Air-sealed boxes shall be marked in accordance with NEMA OS 4. Air-sealed boxes shall be installed in accordance with the manufacturer's instructions.

SECTION R403 SYSTEMS

R403.1 Controls

- ☐ **R403.1.1 Thermostat provision (Mandatory).** At least one thermostat shall be provided for each separate heating and cooling system
- ☐ **R403.1.3 Heat pump supplementary heat (Mandatory).** Heat pumps with supplementary electric-resistance heaters shall have controls that limit supplemental heat operation to only those times when one of the following applies:
 1. The vapor compression cycle cannot provide the necessary heating energy to satisfy the thermostat setting.
 2. The heat pump is operating in defrost mode.
 3. The vapor compression cycle malfunctions.
 4. The thermostat malfunctions
- ☐ **R403.3.2 Sealing (Mandatory).** All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below

Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3.
- ☐ **R403.3.2.1 Sealed air handler.** Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design airflow rate when tested in accordance with ASHRAE 193.
- ☐ **R403.3.3 Duct testing (Mandatory).** Ducts shall be pressure tested to determine air leakage by one of the following methods:
 1. **Rough-in test:** Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.
 2. **Postconstruction test:** Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test.

Exceptions;

 1. A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.
 2. Duct testing is not mandatory for buildings complying by Section 405 of this code. Duct leakage testing is required for Section R405 compliance where credit is taken for leakage, and a duct air leakage Q_n to the outside of less than 0.080 (where Q_n = duct leakage to the outside in cfm per 100 square feet of conditioned floor area tested at 25 Pascals) is indicated in the compliance report for the proposed design.

A written report of the results of the test shall be signed by the party conducting the test and provided to the code official

Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

- ☐ **R403.3.5 Building cavities (Mandatory).** Building framing cavities shall not be used as ducts or plenums
- ☐ **R403.4 Mechanical system piping insulation (Mandatory).** Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.
- ☐ **R403.4.1 Protection of piping insulation.** Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.
- ☐ **R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory).** If heated water circulation systems are installed, they shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible.
- ☐ **R403.5.1.1 Circulation systems.** Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.
- ☐ **R403.5.1.2 Heat trace systems.** Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy.
- ☐ **R403.5.2 Demand recirculation water systems (Mandatory).** Where installed, demand recirculation water systems shall have controls that comply with both of the following:
 1. The control shall start the pump upon receiving a signal from the action of a user of a fixture or appliance, sensing the presence of a user of a fixture or sensing the flow of hot or tempered water to a fixture fitting or appliance.
 2. The control shall limit the temperature of the water entering the cold water piping to 104°F (40°C).
- ☐ **R403.5.5 Heat traps (Mandatory).** Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.
- ☐ **R403.5.6 Water heater efficiencies (Mandatory).**
 - ☐ **R403.5.6.1.1 Automatic controls.** Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).
 - ☐ **R403.5.6.1.2 Shut down.** A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.
 - ☐ **R403.5.6.2 Water-heating equipment.** Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
 - ☐ **R403.5.6.2.1 Solar water-heating systems.** Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:
 1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and
 2. Be installed at an orientation within 45 degrees of true south.
- ☐ **R403.6 Mechanical ventilation (Mandatory).** The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.

- ☐ **R403.6.1 Whole-house mechanical ventilation system fan efficacy.** When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.

Exception: Where an air handler that is integral to tested and listed HVAC equipment is used to provide whole-house mechanical ventilation, the air handler shall be powered by an electronically commutated motor.

**TABLE R403.6.1
WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY**

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY ^a (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)
HRV or ERV	Any	1.2 cfm/watt	Any
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	3.8 cfm/watt	Any
Bathroom, utility room	10	2.8 cfm/watt	<90
Bathroom, utility room	90	3.5 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min.

a. When tested in accordance with HVI Standard 916

- ☐ **R403.6.2 Ventilation Air.** Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:
1. The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
 2. No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
 3. If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.

R403.7 Heating and cooling equipment.

- ☐ **R403.7.1 Equipment sizing (Mandatory).** Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

- ☐ **R403.7.1.1 Cooling equipment capacity.** Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section R403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load.
- The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature.

Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.

Exceptions:

1. Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.
2. When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice.

R403.7.1.2 Heating equipment capacity.

- ☐ **R403.7.1.2.1 Heat pumps.** Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design heating load is 1.15 times greater than the design cooling load.
- ☐ **R403.7.1.2.2 Electric resistance furnaces.** Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1.
- ☐ **R403.7.1.2.3 Fossil fuel heating equipment.** The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1.
- ☐ **R403.7.1.3 Extra capacity required for special occasions.** Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:
1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
 2. A variable capacity system sized for optimum performance during base load periods is utilized.
- ☐ **R403.8 Systems serving multiple dwelling units (Mandatory).** Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the Florida Building Code, Energy Conservation—Commercial Provisions in lieu of Section R403.
- ☐ **R403.9 Snow melt and ice system controls (Mandatory).** Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).
- ☐ **403.10 Pools and permanent spa energy consumption (Mandatory).** The energy consumption of pools and permanent spas shall be in accordance with Sections R403.10.1 through R403.10.5.
- ☐ **R403.10.1 Heaters.** The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater.
- Gas-fired heaters shall not be equipped with continuously burning ignition pilots.
- ☐ **R403.10.2 Time switches.** Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.

Exceptions:

1. Where public health standards require 24-hour pump operation.
2. Pumps that operate solar- and waste-heat-recovery pool heating systems
3. Where pumps are powered exclusively from on-site renewable generation.

Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

- ☐ **R403.10.3 Covers.** Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.
- Exception:** Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required.
- ☐ **R403.10.4 Gas- and oil-fired pool and spa heaters.** All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.
- ☐ **R403.10.5 Heat pump pool heaters.** Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.
- ☐ **R403.11 Portable spas (Mandatory).** The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.
- ☐ **R403.13 Dehumidifiers (Mandatory).** If installed, a dehumidifier shall conform to the following requirements:
1. The minimum rated efficiency of the dehumidifier shall be greater than 1.7 liters/ kWh if the total dehumidifier capacity for the house is less than 75 pints/day and greater than 2.38 liters/kWh if the total dehumidifier capacity for the house is greater than or equal to 75 pints/day.
 2. The dehumidifier shall be controlled by a sensor that is installed in a location where it is exposed to mixed house air.
 3. Any dehumidifier unit located in unconditioned space that treats air from conditioned space shall be insulated to a minimum of R-2.
 4. Condensate disposal shall be in accordance with Section M1411.3.1 of the Florida Building Code, Residential.
- ☐ **R403.13.1 Ducted dehumidifiers.** Ducted dehumidifiers shall, in addition to conforming to the requirements of Section R403.13, conform to the following requirements:
1. If a ducted dehumidifier is configured with return and supply ducts both connected into the supply side of the cooling system, a backdraft damper shall be installed in the supply air duct between the dehumidifier inlet and outlet duct.
 2. If a ducted dehumidifier is configured with only its supply duct connected into the supply side of the central heating and cooling system, a backdraft damper shall be installed in the dehumidifier supply duct between the dehumidifier and central supply duct.
 3. A ducted dehumidifier shall not be ducted to or from a central ducted cooling system on the return duct side upstream from the central cooling evaporator coil.
 4. Ductwork associated with a dehumidifier located in unconditioned space shall be insulated to a minimum of R-6.

SECTION R404 ELECTRICAL POWER AND LIGHTING SYSTEMS

- ☐ **R404.1 Lighting equipment (Mandatory).** All permanently installed luminaires, excluding those in kitchen appliances, shall have an efficacy of at least 45 lumens-per-watt or shall utilize lamps with an efficacy of not less than 65 lumens-per-watt.
- R404.1.1 Lighting equipment (Mandatory).** Fuel gas lighting systems shall not have continuously burning pilot lights.

**SECTION R405
SIMULATED PERFORMANCE ALTERNATIVE
(PERFORMANCE)**

- ☐ **R405.2 Mandatory requirements.** Compliance with this section requires that the mandatory provisions identified in Section R401.2 be met. All supply and return ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-6, except site-wrapped supply ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-8.
- ☐ **R405.2.1 Ceiling insulation.** Ceilings shall have an insulation level of at least R-19, space permitting. For the purposes of this code, types of ceiling construction that are considered to have inadequate space to install R-19 include single assembly ceilings of the exposed deck and beam type and concrete deck roofs. Such ceiling assemblies shall be insulated to at least a level of R-10.
- ☐ **R405.2.2 Building air leakage testing.** Building or dwelling air leakage testing shall be in accordance with Sections R402.4 through R402.4.1.2. If an air leakage rate below seven air changes per hour at a pressure of 0.2 inch w.g. (50 pascals) is specified for the proposed design, testing shall verify the air leakage rate does not exceed the air leakage rate of the proposed design instead of seven air changes per hour.
- ☐ **R405.2.3 Duct air leakage testing.** In cases where duct air leakage lower than the default Q_n to outside of 0.080 (where Q_n = duct leakage to the outside in cfm per 100 square feet of conditioned floor area tested at 25 Pascals) is specified for the proposed design, testing in accordance with Section R403.3.2 shall verify a duct air leakage rate not exceeding the leakage rate of the proposed design. Otherwise, in accordance with Section R403.3.3, duct testing is not mandatory for buildings complying by Section R405.

**SECTION R406
ENERGY RATING INDEX
COMPLIANCE ALTERNATIVE**

- ☐ **R406.2 Mandatory requirements.** Compliance with this section requires that the provisions identified in Sections R401 through R404 labeled as "mandatory" and Section R403.5.3 of the 2015 International Energy Conservation Code be met. For buildings that do not utilize on-site renewable power production for compliance with this section, the building thermal envelope shall be greater than or equal to levels of efficiency and Solar Heat Gain Coefficient in Table 402.1.1 or 402.1.3 of the 2009 International Energy Conservation Code. For buildings that utilize on-site renewable power production for compliance with this section, the building thermal envelope shall be greater than or equal to levels of efficiency and Solar Heat Gain Coefficient in Table R402.1.2 or Table R402.1.4 of the 2015 International Energy Conservation Code.

Exception: Supply and return ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-6.

- ☐ **R406.2.1 Site-wrapped supply ducts.** Site-wrapped supply ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-8.

2023 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA-TABLE 402.4.1.1a

Project Name: BEATON RESIDENCE		Builder Name:	
Street: 13633 83rd LANE NORTH		Permit Office: WEST PALM BEACH	
City, State, Zip: WEST APLM BEACH, FL,		Permit Number:	
Owner:		Jurisdiction:	
Design Location: FL, West Palm Beach		County: Palm Beach(Florida Climate Zone 1)	
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	CHECK
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.	
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.	
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.	
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.	
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.	
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.		
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.	
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.		
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.	
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.	
Electrical, communication, and other equipment boxes, housings, and enclosures	Boxes, housings, and enclosures that penetrate the air barrier shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. All concealed openings into the box, housing, or enclosure shall be sealed. The continuity of the air barrier shall be maintained around boxes, housings, and enclosures that penetrate the air barrier. Alternatively, air-sealed boxes shall be installed in accordance with R402.4.6	Boxes, housings, and enclosures shall be buried in or surrounded by tightly fitted insulation.	
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the sub-floor, wall covering or ceiling penetrated by the boot.		
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.		

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

Envelope Leakage Test Report (Blower Door Test)
Residential Prescriptive, Performance or ERI Method Compliance
2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction:	Permit #:		
Job Information			
Builder:	Community:	Lot:	NA
Address: 13633 83rd LANE NORTH			
City: WEST APLM BEACH	State: FL	Zip:	
Air Leakage Test Results <i>Passing results must meet either the Performance, Prescriptive, or ERI Method</i>			
☐ PRESCRIPTIVE METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2. ☒ PERFORMANCE or ERI METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2023 (Performance) or R406-2023 (ERI), section labeled as infiltration, sub-section ACH50. <i>ACH(50) specified on Form R405-2023-Energy Calc (Performance) or R406-2023 (ERI):</i> 6.000 <u>Method for calculating building volume:</u> ☐ Retrieved from architectural plans ☒ Code software calculated ☐ Field measured and calculated $\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{47976}{\text{ACH}(50)} =$ PASS ☐ When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department. <u>Method for calculating building volume:</u> ☐ Retrieved from architectural plans ☒ Code software calculated ☐ Field measured and calculated			
R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403.6.1 of this code and Section M1507.3 if the <i>Florida Building Code, Residential</i>. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), <i>Florida Statutes</i>, or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the <i>code official</i>. Testing shall be performed at any time after creation of all penetrations of the <i>building thermal envelope</i>. During testing: 1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures. 2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures. 3. Interior doors, if installed at the time of the test, shall be open. 4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed. 5. Heating and cooling systems, if installed at the time of the test, shall be turned off. 6. Supply and return registers, if installed at the time of the test, shall be fully open. 7. If an attic is both sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting the infiltration volume and calculating the air leakage of the home.			
Testing Company			
Company Name: _____ Phone: _____ I hereby verify that the above Air Leakage results are in accordance with the 2023 8th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above. Signature of Tester: _____ Date of Test: _____ Printed Name of Tester: _____ License/Certification #: _____ Issuing Authority: _____			

Residential System Sizing Calculation

Summary

13633 83rd LANE NORTH
WEST APLM BEACH, FL

Project Title:
BEATON RESIDENCE

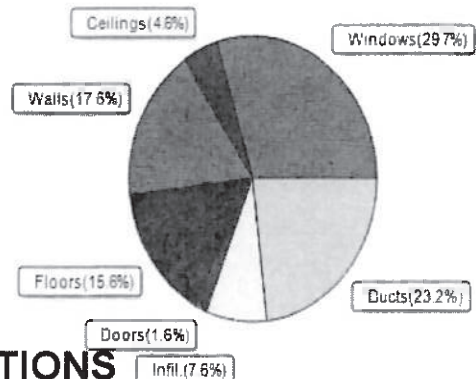
2/18/2025

Location for weather data: West Palm Beach, FL - Defaults: Latitude(26.68) Altitude(100 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (78F) Humidity difference(60gr.)			
Winter design temperature(TMY3 99%)	42 F	Summer design temperature(TMY3 99%)	91 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	28 F	Summer temperature difference	16 F
Total heating load calculation	76864 Btuh	Total cooling load calculation	85761 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	119.7 92000	Sensible (SHR = 0.75)	94.8 68625
Heat Pump + Auxiliary(0.0kW)	119.7 92000	Latent	171.0 22875
		Total (Electric Heat Pump)	106.7 91500

WINTER CALCULATIONS

Winter Heating Load (for 3998 sqft)

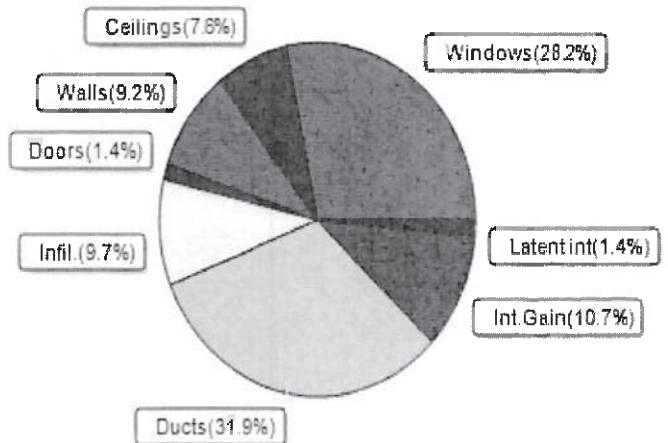
Load component		Load	
Window total	850 sqft	22857	Btuh
Wall total	3398 sqft	13549	Btuh
Door total	96 sqft	1236	Btuh
Ceiling total	3998 sqft	3565	Btuh
Floor total	See detail report	11960	Btuh
Infiltration	191 cfm	5860	Btuh
Duct loss		17836	Btuh
Subtotal		76864	Btuh
Ventilation	Ex:0 cfm; Sup:0 cfm	0	Btuh
TOTAL HEAT LOSS		76864	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 3998 sqft)

Load component		Load	
Window total	850 sqft	24154	Btuh
Wall total	3398 sqft	7861	Btuh
Door total	96 sqft	1192	Btuh
Ceiling total	3998 sqft	6494	Btuh
Floor total		0	Btuh
Infiltration	143 cfm	2511	Btuh
Internal gain		9180	Btuh
Duct gain		20993	Btuh
Sens. Ventilation	Ex:0 cfm; Sup:0 cfm	0	Btuh
Blower Load		0	Btuh
Total sensible gain		72385	Btuh
Latent gain(ducts)		6354	Btuh
Latent gain(infiltration)		5822	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
Total latent gain		13376	Btuh
TOTAL HEAT GAIN		85761	Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: *Robert J. [Signature]*

DATE: *2/18/25*

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

13633 83rd LANE NORTH
WEST APLM BEACH, FL

Project Title:
BEATON RESIDENCE

2/18/2025

Reference City: West Palm Beach, FL (Defaults)
Humidity difference: 60gr.

Temperature Difference: 16.0F(TMY3 99%)
Summer Setpoint: 75 °F (Required Manual J default)

Component Loads for Room #1: Main

Window	Type*						Overhang		Window Area(sqft)			HTM		Load			
	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded				
1	1 NFRC	0.32, 0.96	No	No	N		2.0ft	2.0ft	36.0	0.0	36.0	22	22	801	Btuh		
2	1 NFRC	0.32, 0.96	No	No	NE		8.0ft	1.0ft	48.0	0.0	48.0	22	37	1792	Btuh		
3	1 NFRC	0.32, 0.96	No	No	NE		18.0f	1.0ft	21.3	0.0	21.3	22	37	796	Btuh		
4	1 NFRC	0.32, 0.96	No	No	N		22.0f	1.0ft	387.0	0.0	387.0	22	22	8612	Btuh		
13	1 NFRC	0.32, 0.96	No	No	S		2.0ft	2.0ft	36.0	36.0	0.0	22	24	801	Btuh		
14	1 NFRC	0.32, 0.96	No	No	S		6.0ft	3.0ft	16.0	16.0	0.0	22	24	356	Btuh		
15	1 NFRC	0.32, 0.96	No	No	S		6.0ft	3.0ft	16.0	16.0	0.0	22	24	356	Btuh		
16	1 NFRC	0.32, 0.96	No	No	S		2.0ft	2.0ft	36.0	36.0	0.0	22	24	801	Btuh		
17	1 NFRC	0.32, 0.96	No	No	W		2.0ft	2.0ft	30.0	0.0	30.0	22	46	1395	Btuh		
18	1 NFRC	0.32, 0.96	No	No	W		2.0ft	2.0ft	3.0	0.0	3.0	22	46	139	Btuh		
19	1 NFRC	0.32, 0.96	No	No	W		2.0ft	2.0ft	18.0	0.0	18.0	22	46	837	Btuh		
20	1 NFRC	0.32, 0.96	No	No	W		2.0ft	2.0ft	18.0	0.0	18.0	22	46	837	Btuh		
Window Total									665 (sqft)					17523 Btuh			
Walls	Type						U-Value		R-Value		Area(sqft)		HTM		Load		
									Cav/Sheath								
1	Concrete Blk,Hollow - Ext						0.15		4.1/0.0		273.0		2.4		664 Btuh		
2	Concrete Blk,Hollow - Ext						0.15		4.1/0.0		278.7		2.4		678 Btuh		
3	Concrete Blk,Hollow - Ext						0.15		4.1/0.0		24.0		2.4		58 Btuh		
4	Concrete Blk,Hollow - Ext						0.15		4.1/0.0		568.0		2.4		1382 Btuh		
5	Concrete Blk,Hollow - Ext						0.15		4.1/0.0		543.0		2.4		1321 Btuh		
6	Frame - Steel - Adj						0.12		11.0/0.0		300.0		1.9		569 Btuh		
7	Frame - Steel - Adj						0.12		11.0/0.0		60.0		1.9		114 Btuh		
Wall Total												2047 (sqft)				4786 Btuh	
Doors	Type										Area (sqft)		HTM		Load		
1	Insulated - Exterior										48.0		12.4		596 Btuh		
2	Wood - Garage										24.0		12.4		298 Btuh		
Door Total												72 (sqft)				894 Btuh	
Ceilings	Type/Color/Surface						U-Value		R-Value		Area(sqft)		HTM		Load		
1	Vented Attic/DarkMetal						0.032		30.0/0.0		2888.0		1.62		4691 Btuh		
Ceiling Total												2888 (sqft)				4691 Btuh	
Floors	Type								R-Value		Size		HTM		Load		
1	Slab On Grade								0.0		2888 (ft-perimeter)		0.0		0 Btuh		
Floor Total												2888.0 (sqft)				0 Btuh	
Zone Envelope Subtotal:														27894 Btuh			

Manual J Summer Calculations

Residential Load - Component Details (continued)

13633 83rd LANE NORTH
WEST APLM BEACH, FL

Project Title: Climate:FL_WEST_PALM_BEACH_INTL_A
BEATON RESIDENCE

2/18/2025

Infiltration	Type Natural	Wholehouse ACH 0.18	Volume(cuft) 34656	Wall Ratio 0.60	CFM= 86.2	Load 1513 Btuh
Internal gain		Occupants 4	Btuh/occupant X 230	Appliance +	4400	Load 5320 Btuh
	Sensible Envelope Load:					34726 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)				(DGM of 0.334)	11584 Btuh
	Sensible Zone Load					46310 Btuh

Component Loads for Room #2: Master Bedroom

Window	Type*						Overhang		Window Area(sqft)			HTM		Load	
	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
5	1 NFRC	0.32	0.96	No	No	NW	10.0f	1.0ft	80.0	0.0	80.0	22	37	2986	Btuh
6	1 NFRC	0.32	0.96	No	No	N	2.0ft	2.0ft	36.0	0.0	36.0	22	22	801	Btuh
7	1 NFRC	0.32	0.96	No	No	E	2.0ft	2.0ft	18.0	0.0	18.0	22	46	837	Btuh
8	1 NFRC	0.32	0.96	No	No	E	2.0ft	2.0ft	18.0	0.0	18.0	22	46	837	Btuh
9	1 NFRC	0.32	0.96	No	No	S	2.0ft	2.0ft	15.0	15.0	0.0	22	24	334	Btuh
10	1 NFRC	0.32	0.96	No	No	E	2.0ft	2.0ft	3.0	0.0	3.0	22	46	139	Btuh
11	1 NFRC	0.32	0.96	No	No	E	2.0ft	2.0ft	12.0	0.0	12.0	22	46	558	Btuh
12	1 NFRC	0.32	0.96	No	No	E	2.0ft	2.0ft	3.0	0.0	3.0	22	46	139	Btuh
Window Total									185 (sqft)					6631 Btuh	
Walls	Type	U-Value		R-Value		Area(sqft)		HTM		Load					
				Cav/Sheath											
8	Concrete Blk,Hollow - Ext	0.15		4.1/0.0		108.0		2.4		263 Btuh					
9	Concrete Blk,Hollow - Ext	0.15		4.1/0.0		498.0		2.4		1211 Btuh					
10	Concrete Blk,Hollow - Ext	0.15		4.1/0.0		57.0		2.4		139 Btuh					
11	Concrete Blk,Hollow - Ext	0.15		4.1/0.0		292.0		2.4		710 Btuh					
12	Frame - Steel - Adj	0.12		11.0/0.0		300.0		1.9		569 Btuh					
13	Frame - Steel - Adj	0.12		11.0/0.0		96.0		1.9		182 Btuh					
Wall Total						1351 (sqft)					3075 Btuh				
Doors	Type	Area (sqft)		HTM		Load									
3	Wood - Garage	24.0		12.4		298 Btuh									
Door Total						24 (sqft)					298 Btuh				
Ceilings	Type/Color/Surface	U-Value		R-Value		Area(sqft)		HTM		Load					
2	Vented Attic/DarkMetal	0.032		30.0/0.0		1110.0		1.62		1803 Btuh					
Ceiling Total						1110 (sqft)					1803 Btuh				
Floors	Type	R-Value		Size		HTM		Load							
2	Slab On Grade	0.0		1110 (ft-perimeter)		0.0		0 Btuh							
Floor Total						1110.0 (sqft)					0 Btuh				
Zone Envelope Subtotal:											11807 Btuh				

Manual J Summer Calculations

Residential Load - Component Details (continued)

13633 83rd LANE NORTH
WEST APLM BEACH, FL

Project Title: Climate:FL_WEST_PALM_BEACH_INTL_A
BEATON RESIDENCE

2/18/2025

Infiltration	Type Natural	Wholehouse ACH 0.18	Volume(cuft) 13320	Wall Ratio 0.40	CFM= 56.9	Load 999 Btuh
Internal gain		Occupants 2	Btuh/occupant X 230	Appliance +	3400	Load 3860 Btuh
	Sensible Envelope Load:					16665 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)				(DGM of 0.565)	9409 Btuh
	Sensible Zone Load					26075 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

13633 83rd LANE NORTH
WEST APLM BEACH, FL

Project Title: Climate:FL_WEST_PALM_BEACH_INTL_A
BEATON RESIDENCE

2/18/2025

SYSTEM GROUPS (BLOCK LOADS)

Cooling Loads For System(s): 1 Block #1:Block1 Serving Zones: 1	Sensible Envelope Load	34726 Btuh
	Window Excursion	0 Btuh
	Sensible Duct Load (duct gain multiplier of 0.334)	11584 Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Zone Sensible gain	46310 Btuh
	Latent infiltration/ventilation gain	3507 Btuh
	Latent duct gain	3331 Btuh
	Latent occupant gain	800 Btuh
	Latent other gain	0 Btuh
	Total block load	53948 Btuh

Cooling Loads For System(s): 2 Block #2:Block2 Serving Zones: 2	Sensible Envelope Load	16665 Btuh
	Window Excursion	0 Btuh
	Sensible Duct Load (duct gain multiplier of 0.565)	9409 Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Zone Sensible gain	26075 Btuh
	Latent infiltration/ventilation gain	2315 Btuh
	Latent duct gain	3024 Btuh
	Latent occupant gain	400 Btuh
	Latent other gain	0 Btuh
	Total block load	31813 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

13633 83rd LANE NORTH
WEST APLM BEACH, FL

Project Title: Climate:FL_WEST_PALM_BEACH_INTL_A
BEATON RESIDENCE

2/18/2025

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	51392 Btuh
	Sensible Duct Load	20993 Btuh
	Total Sensible Zone Loads	72385 Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Blower	0 Btuh
	Total sensible gain	72385 Btuh
	Latent infiltration gain (for 60 gr. humidity difference)	5822 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	6354 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	13376 Btuh
	TOTAL GAIN	85761 Btuh

EQUIPMENT

1. Central Unit	#	56500 Btuh
2. Central Unit	#	35000 Btuh

*Key: Window types (Panels - Number and type of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value)

(U - Window U-Factor)

(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))

- For Blinds: Assume medium color, half closed

For Draperies: Assume medium weave, half closed

For Roller shades: Assume translucent, half closed

(IS - Insect screen: none(N), Full(F) or Half(½))

(Ornt - compass orientation)



Version 8

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

Florida Department of Business and Professional Regulation Simulated Performance Alternative (Performance) Method

Applications for compliance with the 2023 Florida Building Code, Energy Conservation via the Residential Simulated Performance Alternative shall include:

- ☒ This checklist
- ☒ Form R405-2023 report
- ☒ Input summary checklist that can be used for field verification (usually four pages/may be greater)
- ☒ Energy Performance Level (EPL) Display Card (one page)
- ☒ HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7
- ☒ Mandatory Requirements (five pages)

Required prior to CO:

- ☐ Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)
- ☐ A completed 2023 Envelope Leakage Test Report (usually one page); exception in R402.4 allows dwelling units of R-2 Occupancies and multiple attached single family dwellings to comply with Section C402.5
- ☐ If Form R405 duct leakage type indicates anything other than "default leakage", then a completed 2023 Duct Leakage Test Report - Performance Method (usually one page)

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: BEATON RESIDENCE Street: 18250 SE LOXAHATCHEE RIVER ROAD City, State, Zip: MARTIN COUNTY, FL, Owner: Design Location: FL, West Palm Beach	Builder Name: Permit Office: MARTIN COUNTY Permit Number: Jurisdiction: County: Martin(Florida Climate Zone 2)
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1. New construction or existing New (From Plans) 2. Single family or multiple family Detached 3. Number of units, if multiple family 1 4. Number of Bedrooms 3 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 3998 Conditioned floor area below grade (ft²) 0 7. Windows(850.3 sqft.) Description Area a. U-Factor: Sgl, U=0.96 850.33 ft² SHGC: SHGC=0.32 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 12.746 ft Area Weighted Average SHGC: 0.320 8. Skylights Description Area U-Factor:(AVG) N/A N/A ft² SHGC(AVG): N/A 9. Floor Types Insulation Area a. Slab-On-Grade Edge Insulation R= 0.0 3998.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(4344.0 sqft.) Insulation Area a. Concrete Block - Int Insul, Exterior R=4.1 3540.00 ft² b. Frame - Steel, Adjacent R=11.0 804.00 ft² c. N/A d. N/A 11. Ceiling Types(3998.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=30.0 3998.00 ft² b. N/A c. N/A 12. Roof(Metal, Vented) Deck R=0.0 4331 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: Garage 6 150 b. Sup: Attic, Ret: Attic, AH: Garage 6 150 c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 56.5 SEER2:14.50 b. Central Unit 35.0 SEER2:15.00 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 57.0 HSPF2:8.20 b. Electric Heat Pump 35.0 HSPF2:7.50 16. Hot Water Systems Cap: 40 gallons a. Electric EF: 0.920 b. Conservation features 17. Credits None Pstat
---	--

Glass/Floor Area: 0.213	Total Proposed Modified Loads: 130.20	PASS
	Total Baseline Loads: 137.92	

NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: <u><i>Robert</i></u> DATE: <u>2/16/24</u> I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: _____ DATE: _____	Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.  BUILDING OFFICIAL: _____ DATE: _____
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- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Default duct leakage does not require a Duct Leakage Test Report.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 4.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT														
Title:	BEATON RESIDENCE			Bedrooms:	3	Address type:	Street Address							
Building Type:	User			Conditioned Area:	3998	Lot #:	---							
Owner:				Total Stories:	1	Block/SubDivision:	---							
Builder Home ID:				Worst Case:	No	PlatBook:	---							
Builder Name:				Rotate Angle:	0	Street:	18250 SE LOXAHATCHEE RIVER ROAD							
Permit Office:	MARTIN COUNTY			Cross Ventilation:		County:	Martin							
Jurisdiction:				Whole House Fan:		City, State, Zip:	MARTIN COUNTY, FL,							
Family Type:	Detached			Terrain:	Suburban									
New/Existing:	New (From Plans)			Shielding:	Suburban									
Year Construct:	2025													
Comment:														
CLIMATE														
☒ Design Location	Tmy Site			Design Temp 97.5%	2.5%	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily temp Range				
___ FL, West Palm Beach	FL_WEST_PALM_BEACH_INT			44	90	70	75	316	60	Medium				
BLOCKS														
☒	Number	Name	Area	Volume										
___ 1		Block1	2888	34656 cu ft										
___ 2		Block2	1110	13320 cu ft										
SPACES														
☒	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated				
___ 1		Main	2888	34656	Yes	4	2	Yes	Yes	Yes				
___ 2		Master Bedroom	1110	13320	Yes	2	1	Yes	Yes	Yes				
FLOORS (Total Exposed Area = 3998 sq.ft.)														
☒	#	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	U-Factor Joist	Slab Insul. Vert/Horiz	Tile	Wood	Carpet			
___ 1		Slab-On-Grade Edge Ins	Main	232	2888 sqft	0.0	---	0.304	0 (ft)/0 (ft)	0.00	0.00	1.00		
___ 2		Slab-On-Grade Edge Ins	Master Bedroom	130	1110 sqft	0.0	---	0.304	0 (ft)/0 (ft)	0.00	0.00	1.00		
ROOF														
☒	#	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1		Hip	Metal	4331 ft²	0 ft²	0.11	Medium	N	0.96	No	0.9	No	0	22.62
ATTIC														
☒	#	Type	Ventilation		Vent Ratio (1 in)		Area	RBS	IRCC					
___ 1		Full attic	Vented		150		3998 ft²	N	N					

INPUT SUMMARY CHECKLIST REPORT

CEILING										(Total Exposed Area = 3998 sq.ft.)			
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type					
___ 1	Flat ceiling under attic(Vented)	Main	30.0	Blown	2888.0ft²	0.030	0.11	Wood					
___ 2	Flat ceiling under attic(Vented)	Master Bedroom	30.0	Blown	1110.0ft²	0.030	0.11	Wood					

WALLS										(Total Exposed Area = 4344 sq.ft.)					
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade
___ 1	N	Exterior	Conc. Blk - Int Ins	Main	4.1	58.0	0	12.0	0	696.0	0.149		0	0.15	0.0 %
___ 2	NE	Exterior	Conc. Blk - Int Ins	Main	4.1	29.0	0	12.0	0	348.0	0.149		0	0.15	0.0 %
___ 3	E	Exterior	Conc. Blk - Int Ins	Main	4.1	6.0	0	12.0	0	72.0	0.149		0	0.15	0.0 %
___ 4	S	Exterior	Conc. Blk - Int Ins	Main	4.1	56.0	0	12.0	0	672.0	0.149		0	0.15	0.0 %
___ 5	W	Exterior	Conc. Blk - Int Ins	Main	4.1	51.0	0	12.0	0	612.0	0.149		0	0.15	0.0 %
___ 6	N	Garage	Frame - Steel	Main	11.0	27.0	0	12.0	0	324.0	0.154		0.11	0.15	0.0 %
___ 7	E	Garage	Frame - Steel	Main	11.0	5.0	0	12.0	0	60.0	0.154		0.11	0.15	0.0 %
___ 8	N	Exterior	Conc. Blk - Int Ins	Master Bedroom	4.1	12.0	0	12.0	0	144.0	0.149		0	0.15	0.0 %
___ 9	E	Exterior	Conc. Blk - Int Ins	Master Bedroom	4.1	46.0	0	12.0	0	552.0	0.149		0	0.15	0.0 %
___ 10	S	Exterior	Conc. Blk - Int Ins	Master Bedroom	4.1	6.0	0	12.0	0	72.0	0.149		0	0.15	0.0 %
___ 11	NW	Exterior	Conc. Blk - Int Ins	Master Bedroom	4.1	31.0	0	12.0	0	372.0	0.149		0	0.15	0.0 %
___ 12	N	Garage	Frame - Steel	Master Bedroom	11.0	27.0	0	12.0	0	324.0	0.154		0.11	0.15	0.0 %
___ 13	W	Garage	Frame - Steel	Master Bedroom	11.0	8.0	0	12.0	0	96.0	0.154		0.11	0.15	0.0 %

DOORS										(Total Exposed Area = 96 sq.ft.)			
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area		
___ 1	E		Insulated	Main	None	0.46	6.00	0	8.00	0	48.0ft²		
___ 2	N		Wood	Main	None	0.46	3.00	0	8.00	0	24.0ft²		
___ 3	N		Wood	Master Bedroom	None	0.46	3.00	0	8.00	0	24.0ft²		

WINDOWS										(Total Exposed Area = 850 sq.ft.)							
✓ #	Ornt	Wall ID	Frame	Panes	NFRC U-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Sep. (ft)	Interior Shade	Screen	
___ 1	N	1	Metal	Single (Tinted)	Y	0.96	0.32	N	N	36.0	1	6.00	6.00	2.0	2.0	None	None
___ 2	NE	2	Metal	Single (Tinted)	Y	0.96	0.32	N	N	48.0	1	6.00	8.00	8.0	1.0	None	None
___ 3	NE	2	Metal	Single (Tinted)	Y	0.96	0.32	N	N	21.3	1	2.67	8.00	18.0	1.0	None	None
___ 4	N	1	Metal	Single (Tinted)	Y	0.96	0.32	N	N	387.0	1	43.00	9.00	22.0	1.0	None	None
___ 5	NW	11	Metal	Single (Tinted)	Y	0.96	0.32	N	N	80.0	1	10.00	8.00	10.0	1.0	None	None
___ 6	N	8	Metal	Single (Tinted)	Y	0.96	0.32	N	N	36.0	1	6.00	6.00	2.0	2.0	None	None
___ 7	E	9	Metal	Single (Tinted)	Y	0.96	0.32	N	N	18.0	1	3.00	6.00	2.0	2.0	None	None
___ 8	E	9	Metal	Single (Tinted)	Y	0.96	0.32	N	N	18.0	1	3.00	6.00	2.0	2.0	None	None
___ 9	S	10	Metal	Single (Tinted)	Y	0.96	0.32	N	N	15.0	1	3.00	5.00	2.0	2.0	None	None
___ 10E		9	Metal	Single (Tinted)	Y	0.96	0.32	N	N	3.0	1	3.00	1.00	2.0	2.0	None	None
___ 11E		9	Metal	Single (Tinted)	Y	0.96	0.32	N	N	12.0	1	3.00	4.00	2.0	2.0	None	None
___ 12E		9	Metal	Single (Tinted)	Y	0.96	0.32	N	N	3.0	1	3.00	1.00	2.0	2.0	None	None
___ 13S		4	Metal	Single (Tinted)	Y	0.96	0.32	N	N	36.0	1	6.00	6.00	2.0	2.0	None	None
___ 14S		4	Metal	Single (Tinted)	Y	0.96	0.32	N	N	16.0	1	2.00	8.00	6.0	3.0	None	None
___ 15S		4	Metal	Single (Tinted)	Y	0.96	0.32	N	N	16.0	1	2.00	8.00	6.0	3.0	None	None
___ 16S		4	Metal	Single (Tinted)	Y	0.96	0.32	N	N	36.0	1	6.00	6.00	2.0	2.0	None	None
___ 17W		5	Metal	Single (Tinted)	Y	0.96	0.32	N	N	30.0	1	6.00	5.00	2.0	2.0	None	None
___ 18W		5	Metal	Single (Tinted)	Y	0.96	0.32	N	N	3.0	1	3.00	1.00	2.0	2.0	None	None
___ 19W		5	Metal	Single (Tinted)	Y	0.96	0.32	N	N	18.0	1	3.00	6.00	2.0	2.0	None	None
___ 20W		5	Metal	Single (Tinted)	Y	0.96	0.32	N	N	18.0	1	3.00	6.00	2.0	2.0	None	None

INPUT SUMMARY CHECKLIST REPORT

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqlA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00030	3198	175.47	329.43	0.0995	4.0	All	47976 cu ft

GARAGE								
✓ #	Floor Area	Length	Width	Roof Area	Exposed Perimeter	Area Under Uncond.	Avg. Wall Height	Exposed Wall Insulation
___ 1	2065 ft²	25.0 ft²	82.6 ft²	2065 ft²	64 ft	2065 ft	12 ft	1

MASS					
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main
___ 2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Master Bedroom

HEATING SYSTEM											
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	—Geothermal Entry	HeatPump— Power	Volt	Current	Ducts	Block
___ 1	Electric Heat Pump	None/Single		HSPF2: 8.20	57.0		0.00	0.00	0.00	sys#1	1
___ 2	Electric Heat Pump	None/Single		HSPF2: 7.50	35.0		0.00	0.00	0.00	sys#2	2

COOLING SYSTEM									
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	None/Single		SEER2:14.5	56.5	1695	0.75	sys#1	1
___ 2	Central Unit	None/Single		SEER2:15.0	35.0	1050	0.75	sys#2	2

HOT WATER SYSTEM											
✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipe length
___ 1	Electric	None	Garage	0.92 (0.92)	40.0 gal	60 gal	120 deg	Standard	Yes	None	50

Recirculation System										
	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits	
___ 1	No	NA	NA	NA	No	NA	NA	NA	None	

DUCTS												
✓ Duct #	Location	Supply— R-Value	Area	Location	Return— R-Value	Area	Leakage Type	AHU Location	CFM 25 TOT/OUT	QN OUT	AHU SEALED	HVAC # Heat Cool
___ 1	Attic	6.0	150 ft²	Attic	6.0	55 ft²	Default Leakage	Garage	(Default)	(Default)		1 1
___ 2	Attic	6.0	150 ft²	Attic	6.0	55 ft²	Default Leakage	Garage	(Default)	(Default)		2 2

INPUT SUMMARY CHECKLIST REPORT

MECHANICAL VENTILATION													
✓ Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System						
___ None	0.0	0.0	0.0	0.0 W	0 %	1 - Electric Heat Pump	1 - Central Unit						
___ None	0.0	0.0	0.0	0.0 W	0 %	2 - Electric Heat Pump	2 - Central Unit						

TEMPERATURES														
Programable Thermostat: Y				Ceiling Fans: N										
Cooling	☐ Jan	☐ Feb	☐ Mar	☐ Apr	☐ May	☒ Jun	☒ Jul	☒ Aug	☒ Sep	☐ Oct	☐ Nov	☐ Dec		
Heating	☒ Jan	☒ Feb	☒ Mar	☐ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☐ Oct	☒ Nov	☒ Dec		
Venting	☐ Jan	☐ Feb	☒ Mar	☒ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☒ Oct	☒ Nov	☐ Dec		

Thermostat Schedule: HERS 2006 Reference													
✓ Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
___ Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
___ Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
___ Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
___ Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 94

The lower the EnergyPerformance Index, the more efficient the home.

18250 SE LOXAHATCHEE RIVER ROAD,MARTIN COUNTY,FL,

1. New construction or existing	New (From Plans)	10. Wall Types(4344.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Concrete Block - Int Insul, Exterior	R=4.1	3540.00 ft ²
3. Number of units, if multiple family	1	b. Frame - Steel, Adjacent	R=11.0	804.00 ft ²
4. Number of Bedrooms	3	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	3998	11. Ceiling Types(3998.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=30.0	3998.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Sgl, U=0.96	c. N/A		
SHGC:	SHGC=0.32	12. Roof(Metal, Vented)	Deck R=0.0	4331 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Garage	6	150
c. U-Factor:	N/A	b. Sup: Attic, Ret: Attic, AH: Garage	6	150
SHGC:		c.		
Area Weighted Average Overhang Depth:	12.746 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.320	a. Central Unit	56.5	SEER2:14.50
8. Skylights	Description	b. Central Unit	35.0	SEER2:15.00
U-Factor:(AVG)	N/A	15. Heating Systems	kBtu/hr	Efficiency
SHGC(AVG):	N/A	a. Electric Heat Pump	57.0	HSPF2:8.20
9. Floor Types	Insulation	b. Electric Heat Pump	35.0	HSPF2:7.50
a. Slab-On-Grade Edge Insulation	R= 0.0	16. Hot Water Systems		
b. N/A	R=	a. Electric	Cap: 40 gallons	
c. N/A	R=	b. Conservation features	EF: 0.920	
		17. Credits	None	
			Pstat	

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: 18250 SE LOXAHATCHEE RIVER ROAD City/FL Zip: MARTIN COUNTY,FL,



*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

Florida Building Code, Energy Conservation, 8th Edition (2023)

Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS: 18250 SE LOXAHATCHEE RIVER ROAD
MARTIN COUNTY, FL

Permit Number:

MANDATORY REQUIREMENTS - See individual code sections for full details.

SECTION R401 GENERAL

- ☐ **R401.3 Energy Performance Level (EPL) display card - (Mandatory).** The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.

SECTION R402 BUILDING THERMAL ENVELOPE

- ☐ **R402.2.10.1 Slab-on-grade floor insulation installation (Mandatory).** Where installed, the insulation shall extend downward from the top of the slab on the outside or inside of the foundation wall. Insulation located below grade shall be extended the distance provided in Table R402.1.2, or the distance of the proposed design as applicable, by any combination of vertical insulation, insulation extending under the slab or insulation extending out from the building. Insulation extending away from the building shall be protected by pavement or by not less than 10 inches (254 mm) of soil. The top edge of the insulation installed between the exterior wall and the edge of the interior slab shall be permitted to be cut at a 45-degree (0.79 rad) angle away from the exterior wall.
- ☐ **R402.2.11.1 Crawl space walls insulation installation (Mandatory).** Where crawl space wall insulation is installed, it shall be permanently fastened to the wall and extend downward from the floor to the finished grade level and then vertically and/or horizontally for at least an additional 24 inches (610 mm). Exposed earth in unvented crawl space foundations shall be covered with a continuous Class I vapor retarder in accordance with the Florida Building Code, Building, or Florida Building Code, Residential, as applicable. All joints of the vapor retarder shall overlap by 6 inches (153 mm) and be sealed or taped. The edges of the vapor retarder shall extend not less than 6 inches (153 mm) up the stem wall and shall be attached to the stem wall.
- ☐ **R402.4 Air leakage (Mandatory).** The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.
 - Exception:** Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.
- ☐ **R402.4.1 Building thermal envelope.** The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.
- ☐ **R402.4.1.1 Installation.** The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.
- ☐ **R402.4.1.2 Testing.** The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403.6.1 of this code and Section M1507.3 of the Florida Building Code, Residential. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.
 - Exception:** Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent of the building thermal envelope.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.
7. If an attic is both air sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting an infiltration volume and calculating the air leakage of the home.

Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

- ☐ **R402.4.2 Fireplaces.** New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.
- ☐ **R402.4.3 Fenestration air leakage.** Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m²), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m²), when tested according to NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.
Exception: Site-built windows, skylights and doors.
- ☐ **R402.4.4 Rooms containing fuel - burning appliances.** In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.
Exceptions:
 1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside.
 2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.
- ☐ **R402.4.5 Recessed lighting.** Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.
- ☐ **R402.4.6 Air-sealed electrical and communication boxes.** Air-sealed electrical and communication boxes that penetrate the air barrier of the building thermal envelope shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. Air-sealed boxes shall be buried in or surrounded by insulation. Air-sealed boxes shall be marked in accordance with NEMA OS 4. Air-sealed boxes shall be installed in accordance with the manufacturer's instructions.

SECTION R403 SYSTEMS

R403.1 Controls

- ☐ **R403.1.1 Thermostat provision (Mandatory).** At least one thermostat shall be provided for each separate heating and cooling system
- ☐ **R403.1.3 Heat pump supplementary heat (Mandatory).** Heat pumps with supplementary electric-resistance heaters shall have controls that limit supplemental heat operation to only those times when one of the following applies:
 1. The vapor compression cycle cannot provide the necessary heating energy to satisfy the thermostat setting.
 2. The heat pump is operating in defrost mode.
 3. The vapor compression cycle malfunctions.
 4. The thermostat malfunctions
- ☐ **R403.3.2 Sealing (Mandatory).** All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below.

Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3.
- ☐ **R403.3.2.1 Sealed air handler.** Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design airflow rate when tested in accordance with ASHRAE 193.
- ☐ **R403.3.3 Duct testing (Mandatory).** Ducts shall be pressure tested to determine air leakage by one of the following methods:
 1. Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.
 2. Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test.**Exceptions;**
 1. A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.
 2. Duct testing is not mandatory for buildings complying by Section 405 of this code. Duct leakage testing is required for Section R405 compliance where credit is taken for leakage, and a duct air leakage Q_n to the outside of less than 0.080 (where Q_n = duct leakage to the outside in cfm per 100 square feet of conditioned floor area tested at 25 Pascals) is indicated in the compliance report for the proposed design.A written report of the results of the test shall be signed by the party conducting the test and provided to the code official

Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

- ☐ **R403.3.5 Building cavities (Mandatory).** Building framing cavities shall not be used as ducts or plenums
- ☐ **R403.4 Mechanical system piping insulation (Mandatory).** Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.
- ☐ **R403.4.1 Protection of piping insulation.** Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.
- ☐ **R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory).** If heated water circulation systems are installed, they shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible.
- ☐ **R403.5.1.1 Circulation systems.** Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.
- ☐ **R403.5.1.2 Heat trace systems.** Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy.
- ☐ **R403.5.2 Demand recirculation water systems (Mandatory).** Where installed, demand recirculation water systems shall have controls that comply with both of the following:
 - 1. The control shall start the pump upon receiving a signal from the action of a user of a fixture or appliance, sensing the presence of a user of a fixture or sensing the flow of hot or tempered water to a fixture fitting or appliance.
 - 2. The control shall limit the temperature of the water entering the cold water piping to 104°F (40°C).
- ☐ **R403.5.5 Heat traps (Mandatory).** Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.
- ☐ **R403.5.6 Water heater efficiencies (Mandatory).**
 - ☐ **R403.5.6.1.1 Automatic controls.** Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).
 - ☐ **R403.5.6.1.2 Shut down.** A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.
 - ☐ **R403.5.6.2 Water-heating equipment.** Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
 - ☐ **R403.5.6.2.1 Solar water-heating systems.** Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:
 - 1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and
 - 2. Be installed at an orientation within 45 degrees of true south.
- ☐ **R403.6 Mechanical ventilation (Mandatory).** The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.

Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

- ☐ **R403.6.1 Whole-house mechanical ventilation system fan efficacy.** When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.

Exception: Where an air handler that is integral to tested and listed HVAC equipment is used to provide whole-house mechanical ventilation, the air handler shall be powered by an electronically commutated motor.

**TABLE R403.6.1
WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY**

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY ^a (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)
HRV or ERV	Any	1.2 cfm/watt	Any
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	3.8 cfm/watt	Any
Bathroom, utility room	10	2.8 cfm/watt	<90
Bathroom, utility room	90	3.5 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min.

a. When tested in accordance with HVI Standard 916

- ☐ **R403.6.2 Ventilation Air.** Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:
1. The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
 2. No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
 3. If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.

R403.7 Heating and cooling equipment.

- ☐ **R403.7.1 Equipment sizing (Mandatory).** Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

- ☐ **R403.7.1.1 Cooling equipment capacity.** Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section R403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load.
- The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature.

Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.

Exceptions:

1. Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.
2. When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice.

R403.7.1.2 Heating equipment capacity.

- ☐ **R403.7.1.2.1 Heat pumps.** Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design heating load is 1.15 times greater than the design cooling load.
- ☐ **R403.7.1.2.2 Electric resistance furnaces.** Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1.
- ☐ **R403.7.1.2.3 Fossil fuel heating equipment.** The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1.
- ☐ **R403.7.1.3 Extra capacity required for special occasions.** Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:
1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
 2. A variable capacity system sized for optimum performance during base load periods is utilized.
- ☐ **R403.8 Systems serving multiple dwelling units (Mandatory).** Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the Florida Building Code, Energy Conservation—Commercial Provisions in lieu of Section R403.
- ☐ **R403.9 Snow melt and ice system controls (Mandatory).** Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).
- ☐ **403.10 Pools and permanent spa energy consumption (Mandatory).** The energy consumption of pools and permanent spas shall be in accordance with Sections R403.10.1 through R403.10.5.
- ☐ **R403.10.1 Heaters.** The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater.
- Gas-fired heaters shall not be equipped with continuously burning ignition pilots.
- ☐ **R403.10.2 Time switches.** Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.

Exceptions:

1. Where public health standards require 24-hour pump operation.
2. Pumps that operate solar- and waste-heat-recovery pool heating systems
3. Where pumps are powered exclusively from on-site renewable generation.

Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

- ☐ **R403.10.3 Covers.** Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.
- Exception:** Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required.
- ☐ **R403.10.4 Gas- and oil-fired pool and spa heaters.** All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.
- ☐ **R403.10.5 Heat pump pool heaters.** Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.
- ☐ **R403.11 Portable spas (Mandatory).** The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.
- ☐ **R403.13 Dehumidifiers (Mandatory).** If installed, a dehumidifier shall conform to the following requirements:
1. The minimum rated efficiency of the dehumidifier shall be greater than 1.7 liters/ kWh if the total dehumidifier capacity for the house is less than 75 pints/day and greater than 2.38 liters/kWh if the total dehumidifier capacity for the house is greater than or equal to 75 pints/day.
 2. The dehumidifier shall be controlled by a sensor that is installed in a location where it is exposed to mixed house air.
 3. Any dehumidifier unit located in unconditioned space that treats air from conditioned space shall be insulated to a minimum of R-2.
 4. Condensate disposal shall be in accordance with Section M1411.3.1 of the Florida Building Code, Residential.
- ☐ **R403.13.1 Ducted dehumidifiers.** Ducted dehumidifiers shall, in addition to conforming to the requirements of Section R403.13, conform to the following requirements:
1. If a ducted dehumidifier is configured with return and supply ducts both connected into the supply side of the cooling system, a backdraft damper shall be installed in the supply air duct between the dehumidifier inlet and outlet duct.
 2. If a ducted dehumidifier is configured with only its supply duct connected into the supply side of the central heating and cooling system, a backdraft damper shall be installed in the dehumidifier supply duct between the dehumidifier and central supply duct.
 3. A ducted dehumidifier shall not be ducted to or from a central ducted cooling system on the return duct side upstream from the central cooling evaporator coil.
 4. Ductwork associated with a dehumidifier located in unconditioned space shall be insulated to a minimum of R-6.

SECTION R404 ELECTRICAL POWER AND LIGHTING SYSTEMS

- ☐ **R404.1 Lighting equipment (Mandatory).** All permanently installed luminaires, excluding those in kitchen appliances, shall have an efficacy of at least 45 lumens-per-watt or shall utilize lamps with an efficacy of not less than 65 lumens-per-watt.
- R404.1.1 Lighting equipment (Mandatory).** Fuel gas lighting systems shall not have continuously burning pilot lights.

SECTION R405
SIMULATED PERFORMANCE ALTERNATIVE
(PERFORMANCE)

- ☐ **R405.2 Mandatory requirements.** Compliance with this section requires that the mandatory provisions identified in Section R401.2 be met. All supply and return ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-6, except site-wrapped supply ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-8.
- ☐ **R405.2.1 Ceiling insulation.** Ceilings shall have an insulation level of at least R-19, space permitting. For the purposes of this code, types of ceiling construction that are considered to have inadequate space to install R-19 include single assembly ceilings of the exposed deck and beam type and concrete deck roofs. Such ceiling assemblies shall be insulated to at least a level of R-10.
- ☐ **R405.2.2 Building air leakage testing.** Building or dwelling air leakage testing shall be in accordance with Sections R402.4 through R402.4.1.2. If an air leakage rate below seven air changes per hour at a pressure of 0.2 inch w.g. (50 pascals) is specified for the proposed design, testing shall verify the air leakage rate does not exceed the air leakage rate of the proposed design instead of seven air changes per hour.
- ☐ **R405.2.3 Duct air leakage testing.** In cases where duct air leakage lower than the default Q_n to outside of 0.080 (where Q_n = duct leakage to the outside in cfm per 100 square feet of conditioned floor area tested at 25 Pascals) is specified for the proposed design, testing in accordance with Section R403.3.2 shall verify a duct air leakage rate not exceeding the leakage rate of the proposed design. Otherwise, in accordance with Section R403.3.3, duct testing is not mandatory for buildings complying by Section R405.

SECTION R406
ENERGY RATING INDEX
COMPLIANCE ALTERNATIVE

- ☐ **R406.2 Mandatory requirements.** Compliance with this section requires that the provisions identified in Sections R401 through R404 labeled as "mandatory" and Section R403.5.3 of the 2015 International Energy Conservation Code be met. For buildings that do not utilize on-site renewable power production for compliance with this section, the building thermal envelope shall be greater than or equal to levels of efficiency and Solar Heat Gain Coefficient in Table 402.1.1 or 402.1.3 of the 2009 International Energy Conservation Code. For buildings that utilize on-site renewable power production for compliance with this section, the building thermal envelope shall be greater than or equal to levels of efficiency and Solar Heat Gain Coefficient in Table R402.1.2 or Table R402.1.4 of the 2015 International Energy Conservation Code.

Exception: Supply and return ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-6.

- ☐ **R406.2.1 Site-wrapped supply ducts.** Site-wrapped supply ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-8.

2023 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA-TABLE 402.4.1.1a

Project Name: BEATON RESIDENCE		Builder Name:	
Street: 18250 SE LOXAHATCHEE RIVER ROAD		Permit Office: MARTIN COUNTY	
City, State, Zip: MARTIN COUNTY, FL,		Permit Number:	
Owner:		Jurisdiction:	
Design Location: FL, West Palm Beach		County: Martin(Florida Climate Zone 2)	
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	NOTES
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.	
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.	
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.	
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.	
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.	
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.		
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.	
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.		
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.	
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.	
Electrical, communication, and other equipment boxes, housings, and enclosures	Boxes, housings, and enclosures that penetrate the air barrier shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. All concealed openings into the box, housing, or enclosure shall be sealed. The continuity of the air barrier shall be maintained around boxes, housings, and enclosures that penetrate the air barrier. Alternatively, air-sealed boxes shall be installed in accordance with R402.4.6	Boxes, housings, and enclosures shall be buried in or surrounded by tightly fitted insulation.	
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the sub-floor, wall covering or ceiling penetrated by the boot.		
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.		

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

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Page 1

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance

2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction:	Permit #:
Job Information	
Builder:	Community: Lot: NA
Address: 18250 SE LOXAHATCHEE RIVER ROAD	
City: MARTIN COUNTY	State: FL Zip:
Air Leakage Test Results <i>Passing results must meet either the Performance, Prescriptive, or ERI Method</i>	
☐ PRESCRIPTIVE METHOD -The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.	
☒ PERFORMANCE or ERI METHOD -The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2023 (Performance) or R406-2023 (ERI), section labeled as infiltration, sub-section ACH50. ACH(50) specified on Form R405-2023-Energy Calc (Performance) or R406-2023 (ERI): 4.000	
$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div 47976 = \text{ACH}(50)$ PASS ☐ When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department. Method for calculating building volume: ☐ Retrieved from architectural plans ☒ Code software calculated ☐ Field measured and calculated	
R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403.6.1 of this code and Section M1507.3 if the <i>Florida Building Code, Residential</i>. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), <i>Florida Statutes</i>, or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the <i>code official</i>. Testing shall be performed at any time after creation of all penetrations of the <i>building thermal envelope</i>. During testing: - Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures. - Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures. - Interior doors, if installed at the time of the test, shall be open. - Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed. - Heating and cooling systems, if installed at the time of the test, shall be turned off. - Supply and return registers, if installed at the time of the test, shall be fully open. - If an attic is both sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting the infiltration volume and calculating the air leakage of the home.	
Testing Company	
Company Name: _____ Phone: _____ I hereby verify that the above Air Leakage results are in accordance with the 2023 8th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.	
Signature of Tester: _____ Date of Test: _____ Printed Name of Tester: _____ License/Certification #: _____ Issuing Authority: _____	

Residential System Sizing Calculation

Summary

18250 SE LOXAHATCHEE RIVER ROAD
MARTIN COUNTY, FL

Project Title:
BEATON RESIDENCE

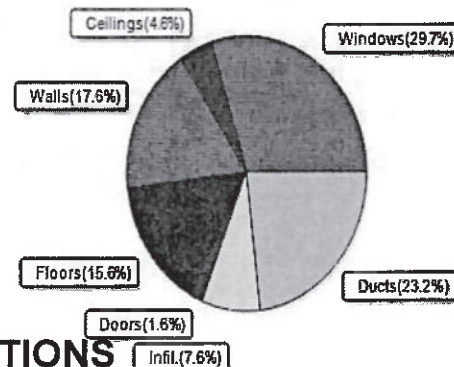
2/6/2026

Location for weather data: West Palm Beach, FL - Defaults: Latitude(26.68) Altitude(100 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (78F) Humidity difference(60gr.)			
Winter design temperature(TMY3 99%)	42 F	Summer design temperature(TMY3 99%)	91 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	28 F	Summer temperature difference	16 F
Total heating load calculation	76864 Btuh	Total cooling load calculation	85761 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	119.7 92000	Sensible (SHR = 0.75)	94.8 68625
Heat Pump + Auxiliary(0.0kW)	119.7 92000	Latent	171.0 22875
		Total (Electric Heat Pump)	106.7 91500

WINTER CALCULATIONS

Winter Heating Load (for 3998 sqft)

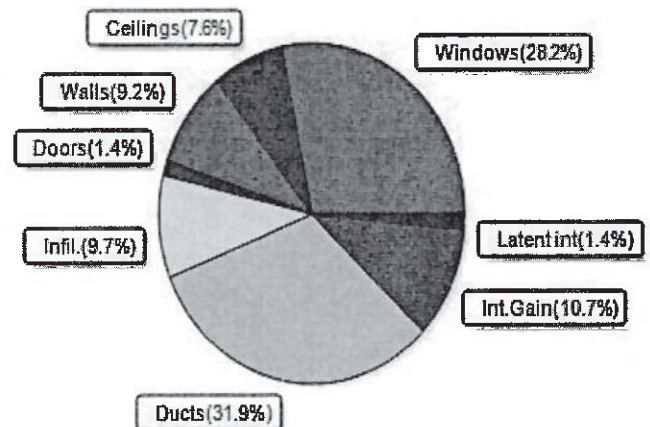
Load component		Load
Window total	850 sqft	22857 Btuh
Wall total	3398 sqft	13549 Btuh
Door total	96 sqft	1236 Btuh
Ceiling total	3998 sqft	3565 Btuh
Floor total	See detail report	11960 Btuh
Infiltration	191 cfm	5860 Btuh
Duct loss		17836 Btuh
Subtotal		76864 Btuh
Ventilation	Ex:0 cfm; Sup:0 cfm	0 Btuh
TOTAL HEAT LOSS		76864 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 3998 sqft)

Load component		Load
Window total	850 sqft	24154 Btuh
Wall total	3398 sqft	7861 Btuh
Door total	96 sqft	1192 Btuh
Ceiling total	3998 sqft	6494 Btuh
Floor total		0 Btuh
Infiltration	143 cfm	2511 Btuh
Internal gain		9180 Btuh
Duct gain		20993 Btuh
Sens. Ventilation	Ex:0 cfm; Sup:0 cfm	0 Btuh
Blower Load		0 Btuh
Total sensible gain		72385 Btuh
Latent gain(ducts)		6354 Btuh
Latent gain(infiltration)		5822 Btuh
Latent gain(ventilation)		0 Btuh
Latent gain(internal/occupants/other)		1200 Btuh
Total latent gain		13376 Btuh
TOTAL HEAT GAIN		85761 Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 2/6/26

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

18250 SE LOXAHATCHEE RIVER ROAD
MARTIN COUNTY, FL

Project Title:
BEATON RESIDENCE

2/6/2026

Reference City: West Palm Beach, FL (Defaults)
Humidity difference: 60gr.

Temperature Difference: 16.0F(TMY3 99%)
Summer Setpoint: 75 °F (Required Manual J default)

Component Loads for Room #1: Main

Window	Type*					Overhang		Window Area(sqft)			HTM		Load	
	Panes	SHGC	U	InSh	IS Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	1 NFRC	0.32	0.96	No	No	N	2.0ft	2.0ft	36.0	0.0	36.0	22	22	801 Btuh
2	1 NFRC	0.32	0.96	No	No	NE	8.0ft	1.0ft	48.0	0.0	48.0	22	37	1792 Btuh
3	1 NFRC	0.32	0.96	No	No	NE	18.0f	1.0ft	21.3	0.0	21.3	22	37	796 Btuh
4	1 NFRC	0.32	0.96	No	No	N	22.0f	1.0ft	387.0	0.0	387.0	22	22	8612 Btuh
13	1 NFRC	0.32	0.96	No	No	S	2.0ft	2.0ft	36.0	36.0	0.0	22	24	801 Btuh
14	1 NFRC	0.32	0.96	No	No	S	6.0ft	3.0ft	16.0	16.0	0.0	22	24	356 Btuh
15	1 NFRC	0.32	0.96	No	No	S	6.0ft	3.0ft	16.0	16.0	0.0	22	24	356 Btuh
16	1 NFRC	0.32	0.96	No	No	S	2.0ft	2.0ft	36.0	36.0	0.0	22	24	801 Btuh
17	1 NFRC	0.32	0.96	No	No	W	2.0ft	2.0ft	30.0	0.0	30.0	22	46	1395 Btuh
18	1 NFRC	0.32	0.96	No	No	W	2.0ft	2.0ft	3.0	0.0	3.0	22	46	139 Btuh
19	1 NFRC	0.32	0.96	No	No	W	2.0ft	2.0ft	18.0	0.0	18.0	22	46	837 Btuh
20	1 NFRC	0.32	0.96	No	No	W	2.0ft	2.0ft	18.0	0.0	18.0	22	46	837 Btuh
Window Total									665 (sqft)					17523 Btuh
Walls	Type	U-Value					R-Value		Area(sqft)		HTM		Load	
							Cav/Sheath							
1	Concrete Blk,Hollow - Ext	0.15					4.1/0.0		273.0		2.4		664 Btuh	
2	Concrete Blk,Hollow - Ext	0.15					4.1/0.0		278.7		2.4		678 Btuh	
3	Concrete Blk,Hollow - Ext	0.15					4.1/0.0		24.0		2.4		58 Btuh	
4	Concrete Blk,Hollow - Ext	0.15					4.1/0.0		568.0		2.4		1382 Btuh	
5	Concrete Blk,Hollow - Ext	0.15					4.1/0.0		543.0		2.4		1321 Btuh	
6	Frame - Steel - Adj	0.12					11.0/0.0		300.0		1.9		569 Btuh	
7	Frame - Steel - Adj	0.12					11.0/0.0		60.0		1.9		114 Btuh	
Wall Total									2047 (sqft)					4786 Btuh
Doors	Type	Area (sqft)					HTM		Load					
1	Insulated - Exterior	48.0					12.4		596 Btuh					
2	Wood - Garage	24.0					12.4		298 Btuh					
Door Total									72 (sqft)			894 Btuh		
Ceilings	Type/Color/Surface	U-Value					R-Value		Area(sqft)		HTM		Load	
1	Vented Attic/DarkMetal	0.032					30.0/0.0		2888.0		1.62		4691 Btuh	
Ceiling Total									2888 (sqft)			4691 Btuh		
Floors	Type	R-Value					Size		HTM		Load			
1	Slab On Grade	0.0					2888 (ft-perimeter)		0.0		0 Btuh			
Floor Total									2888.0 (sqft)			0 Btuh		
Zone Envelope Subtotal:													27894 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

18250 SE LOXAHATCHEE RIVER ROAD
MARTIN COUNTY, FL

Project Title: Climate:FL_WEST_PALM_BEACH_INTL_A
BEATON RESIDENCE

2/6/2026

Infiltration	Type Natural	Wholehouse ACH 0.18	Volume(cuft) 34656	Wall Ratio 0.60	CFM= 86.2	Load 1513 Btuh
Internal gain		Occupants 4	Btuh/occupant X 230	Appliance +	4400	Load 5320 Btuh
					Sensible Envelope Load:	34726 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)				(DGM of 0.334)	11584 Btuh
					Sensible Zone Load	46310 Btuh

Component Loads for Room #2: Master Bedroom

Window	Type*						Overhang		Window Area(sqft)			HTM		Load	
	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
5	1 NFRC	0.32, 0.96	No	No	NW		10.0f	1.0f	80.0	0.0	80.0	22	37	2986	Btuh
6	1 NFRC	0.32, 0.96	No	No	N		2.0f	2.0f	36.0	0.0	36.0	22	22	801	Btuh
7	1 NFRC	0.32, 0.96	No	No	E		2.0f	2.0f	18.0	0.0	18.0	22	46	837	Btuh
8	1 NFRC	0.32, 0.96	No	No	E		2.0f	2.0f	18.0	0.0	18.0	22	46	837	Btuh
9	1 NFRC	0.32, 0.96	No	No	S		2.0f	2.0f	15.0	15.0	0.0	22	24	334	Btuh
10	1 NFRC	0.32, 0.96	No	No	E		2.0f	2.0f	3.0	0.0	3.0	22	46	139	Btuh
11	1 NFRC	0.32, 0.96	No	No	E		2.0f	2.0f	12.0	0.0	12.0	22	46	558	Btuh
12	1 NFRC	0.32, 0.96	No	No	E		2.0f	2.0f	3.0	0.0	3.0	22	46	139	Btuh
	Window Total								185 (sqft)					6631 Btuh	
Walls	Type	U-Value		R-Value		Area(sqft)		HTM		Load					
				Cav/Sheath											
8	Concrete Blk,Hollow - Ext	0.15		4.1/0.0		108.0		2.4		263 Btuh					
9	Concrete Blk,Hollow - Ext	0.15		4.1/0.0		498.0		2.4		1211 Btuh					
10	Concrete Blk,Hollow - Ext	0.15		4.1/0.0		57.0		2.4		139 Btuh					
11	Concrete Blk,Hollow - Ext	0.15		4.1/0.0		292.0		2.4		710 Btuh					
12	Frame - Steel - Adj	0.12		11.0/0.0		300.0		1.9		569 Btuh					
13	Frame - Steel - Adj	0.12		11.0/0.0		96.0		1.9		182 Btuh					
	Wall Total								1351 (sqft)			3075 Btuh			
Doors	Type	Area (sqft)		HTM		Load									
3	Wood - Garage	24.0		12.4		298 Btuh									
	Door Total								24 (sqft)			298 Btuh			
Ceilings	Type/Color/Surface	U-Value		R-Value		Area(sqft)		HTM		Load					
2	Vented Attic/DarkMetal	0.032		30.0/0.0		1110.0		1.62		1803 Btuh					
	Ceiling Total								1110 (sqft)			1803 Btuh			
Floors	Type	R-Value		Size		HTM		Load							
2	Slab On Grade	0.0		1110 (ft-perimeter)		0.0		0 Btuh							
	Floor Total								1110.0 (sqft)			0 Btuh			
	Zone Envelope Subtotal:													11807 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

18250 SE LOXAHATCHEE RIVER ROAD Project Title: Climate: FL_WEST_PALM_BEACH_INTL_A
MARTIN COUNTY, FL BEATON RESIDENCE

2/6/2026

Infiltration	Type Natural	Wholehouse ACH 0.18	Volume(cuft) 13320	Wall Ratio 0.40	CFM= 56.9	Load 999 Btuh
Internal gain		Occupants 2	Btuh/occupant X 230	Appliance +	3400	Load 3860 Btuh
			Sensible Envelope Load:			16665 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)				(DGM of 0.565)	9409 Btuh
			Sensible Zone Load			26075 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

18250 SE LOXAHATCHEE RIVER ROAD
MARTIN COUNTY, FL

Project Title: Climate:FL_WEST_PALM_BEACH_INTL_A
BEATON RESIDENCE

2/6/2026

SYSTEM GROUPS (BLOCK LOADS)

Cooling Loads For System(s): 1 Block #1:Block1 Serving Zones: 1	Sensible Envelope Load	34726 Btuh
	Window Excursion	0 Btuh
	Sensible Duct Load (duct gain multiplier of 0.334)	11584 Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Zone Sensible gain	46310 Btuh
	Latent infiltration/ventilation gain	3507 Btuh
	Latent duct gain	3331 Btuh
	Latent occupant gain	800 Btuh
	Latent other gain	0 Btuh
	Total block load	53948 Btuh

Cooling Loads For System(s): 2 Block #2:Block2 Serving Zones: 2	Sensible Envelope Load	16665 Btuh
	Window Excursion	0 Btuh
	Sensible Duct Load (duct gain multiplier of 0.565)	9409 Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Zone Sensible gain	26075 Btuh
	Latent infiltration/ventilation gain	2315 Btuh
	Latent duct gain	3024 Btuh
	Latent occupant gain	400 Btuh
	Latent other gain	0 Btuh
	Total block load	31813 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

18250 SE LOXAHATCHEE RIVER ROAD
MARTIN COUNTY, FL

Project Title: Climate:FL_WEST_PALM_BEACH_INTL_A
BEATON RESIDENCE

2/6/2026

WHOLE HOUSE TOTALS		
Whole House Totals for Cooling	Sensible Envelope Load All Zones	51392 Btuh
	Sensible Duct Load	20993 Btuh
	Total Sensible Zone Loads	72385 Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Blower	0 Btuh
	Total sensible gain	72385 Btuh
	Latent infiltration gain (for 60 gr. humidity difference)	5822 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	6354 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	13376 Btuh
	TOTAL GAIN	85761 Btuh

EQUIPMENT		
1. Central Unit	#	56500 Btuh
2. Central Unit	#	35000 Btuh

*Key: Window types (Panels - Number and type of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value)
(U - Window U-Factor)
(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))
- For Blinds: Assume medium color, half closed
For Draperies: Assume medium weave, half closed
For Roller shades: Assume translucent, half closed
(IS - Insect screen: none(N), Full(F) or Half(½))
(Ornt - compass orientation)

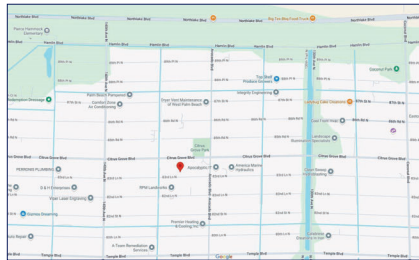


Version 8

ALL WINDOWS AND DOORS TO HAVE BEEN TESTED TO MEET FBC STANDARDS .
USE THE FASTENING METHOD AS THE PRODUCT APPROVAL
DICTATES.
PAINT PROTECTO LUMBOO PRIOR TO DOING BUCKS 8' PERIMETER COMPLETE INSIDE JAMB.

1x 3 PT BUCKS ;
WINDOWS USE 1 X 3 MIN. PT
DOORS/SGD/FRENCH DOORS SEE SHEET D-1
FOR FASTENERS , THEN CONNECT WIN/DOOR/SGD FRENCH DOOR FRAMES
PER N.O.A.

2x4 BUCKS:
WINDOWS USE 2x4 MIN. PT DOORS/SGD/FRENCH DOORS USE 2x6 PT WITH 3/8" TAPCONS 1-1/4" EMBEDMENT INTO MASONRY 18" O/C, 6"
FROM EACH END, THEN CONNECT WINDOW/DOOR/SGD/FRENCH WITH SCREWS PROVIDED WITH UNITS
AND PER ATTACHED N.O.A.



SHEET LEGEND:

- C-1 = COVER SHEET
- O1 = FLOOR PLAN
- O2 = ELEVATIONS
- O3 = SLAB, BEAM, & COLUMN PLAN
- T-1 = ROOF FRAMING LAYOUT
- M-1 = MECHANICAL PLAN
- D-1 = DETAIL SHEET
- E-1 = ELECTRICAL PLAN
- P-1 = PLUMBING PLAN

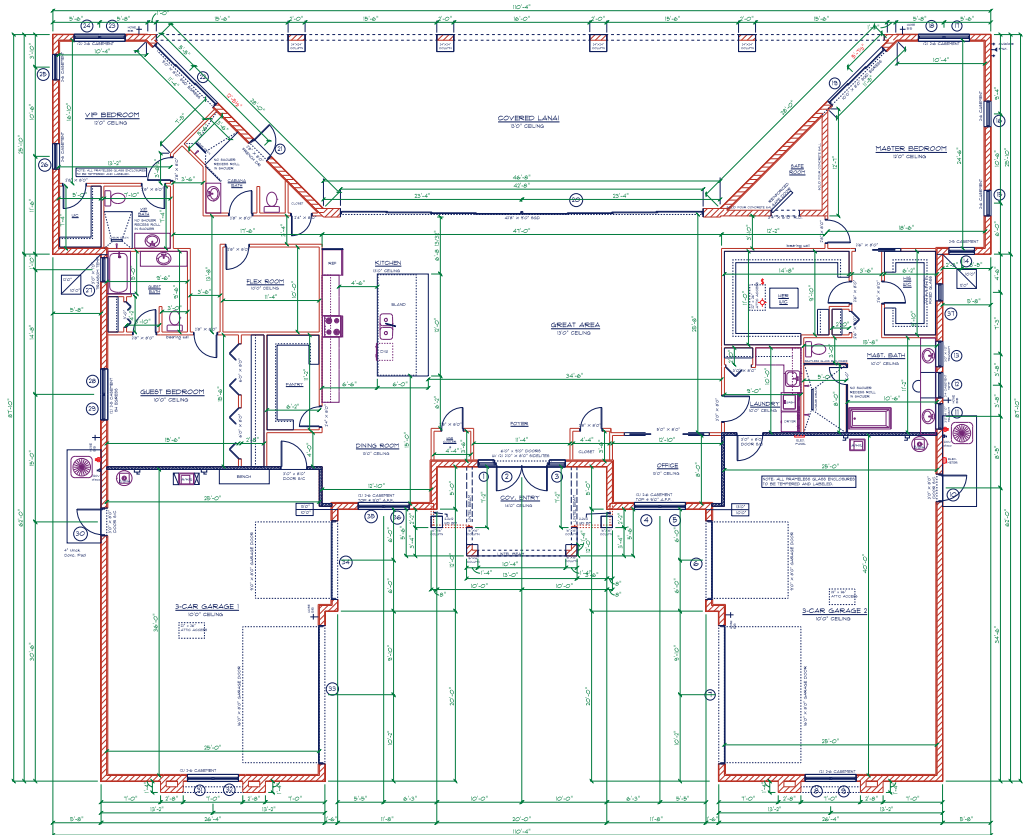


DRAFTED BY :
CORAL KEY DESIGN NO.
DRAFTING SERVICE
608 BELVEDERE RD.
W.P.B., FL.
33408-0000

JOB ADDRESS:
A PROPOSED RESIDENCE
18250 SE LOXAHATCHEE RIVER RD
JUPITER, FL. 33458

SYSTEMS, added correct address

COVER SHEET
SHEET
C-1

[illegible]

FLOOR PLAN
SCALE: 3/16" = 1'0"

AREA TABS		PEC 2023, RH EDITION TO MP4 3-66 GUST WIND SPEED
A/C LIVING AREA:	3980 SQ FT	PEC 2023, RH EDITION RECREATIONAL CODE
3-CAR GARAGE 1:	981 SQ FT	PEC 2023, RH EDITION LIVING CODE
3-CAR GARAGE 2:	1084 SQ FT	PEC 2023, RH EDITION RESIDENTIAL CODE
COVERED LANAI:	1371 SQ FT	NEC 2020, NFPA TO ELECTRICAL CODE
COVERED ENTRY:	336 SQ FT	MISC CATEGORY: I
		I BLDG CAT: V-B
		OCCUPANCY: R-3
		EXPANSION: G
		10' MIN. CEIL. - 10' MIN.
		BUILDING: ENCLOSED
		OPENING PROTECTION: IMPACT GLASS
TOTAL UNDER AREA:	3986 SQ FT	
TOTAL AREA:	7716 SQ FT	



 **Coral Key Design, Inc.**
3731 miller ave.
West Palm Beach, FL 33405
561-722-3890

REVISION:

A PROPOSED RESIDENCE

CORY BEATON

SH



RYAN HOWARD, P.E.
FL. LIC. # 67403
C925 VIA MILANO CT.
CLERMONT, FL. 34711
407-463-0474

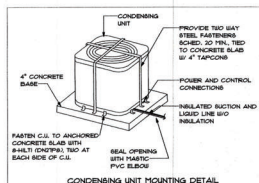
REVISION:
 added correct address
 DATE: 10/09/2024

A PROPOSED RESIDENCE

CUSTOMER:
CORY BEATON

SHEET
02

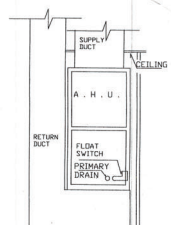
SHEET T-1		JOB # 240000		CUSTOMER: CORY BEATON		A PROPOSED RESIDENCE		REVISION: Δ United Counties Address RYAN HOUNGARD, PE 10926 VIA MILANO CT CLEMATON, NJ 08015 C-463-C-14		 Caral Key Design, Inc. 10000 West Palm Beach Blvd., Suite 100 West Palm Beach, FL 33415 561-722-3880			
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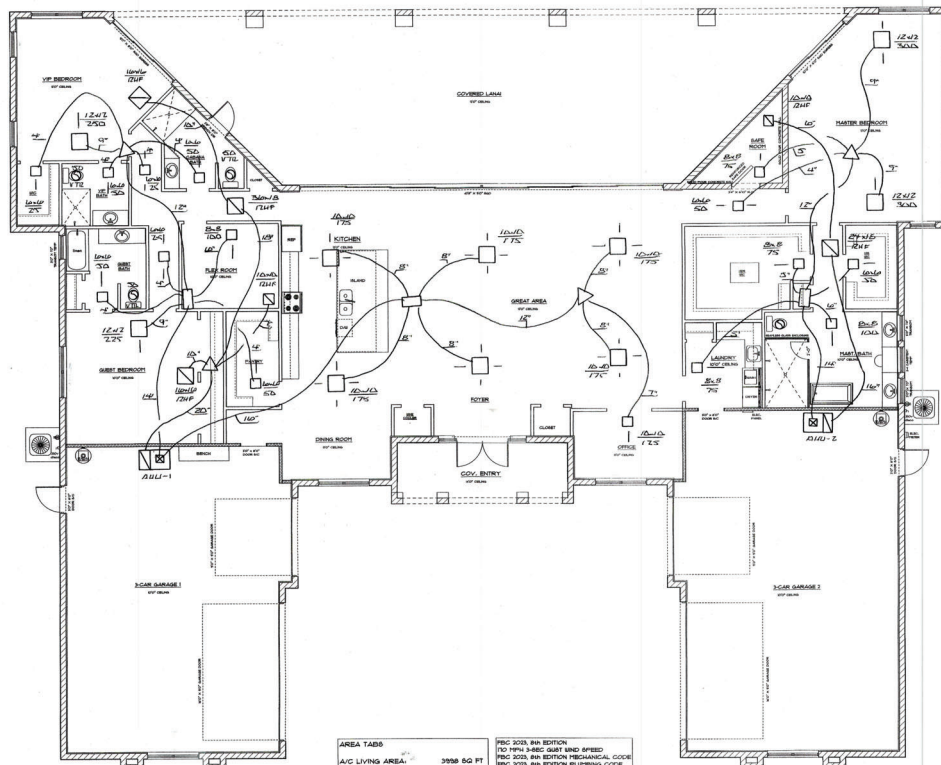
GENERAL INSTRUCTIONS:

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FBC 2023 8th EDITION
170 MPH 3 SEC Gust Wind Speed



AC - 2
EQUIPMENT SCHEDULE
GOODMAN
3 TON
C.U. - GLZS4BA36
A.H.U. - AMST36CU
HEAT - 5 KW
COOL CAP. - 35,000
HEAT CAP. - 35,000
ELECT - 208-230-1
BRKR CU-35 AHU-30
REF. LINES - 3/4 & 3/8
S.E.E.R. - 15.00
HSPF2 - 7.50



MECHANICAL PLAN
SCALE: 3/16" = 1'0"

AREA TABS	
A/C LIVING AREA:	3998 SQ FT
3-CAR GARAGE 1:	981 SQ FT
3-CAR GARAGE 2:	1084 SQ FT
COVERED LANAI:	1371 SQ FT
COVERED ENTRY:	146 SQ FT
TOTAL UNDER AIR:	3998 SQ FT
TOTAL AREA:	7886 SQ FT

FBC 2023, 8th EDITION
170 MPH 3-BEC GUST WIND SPEED
FBC 2023, 8th EDITION MECHANICAL CODE
FBC 2023, 8th EDITION PLUMBING CODE
FBC 2023, 8th EDITION RESIDENTIAL CODE
NEC 2020, NFPA 10 ELECTRICAL CODE
RISK CATEGORY: I
BLDG CAT. VB
OCCUPANCY: R-3
EXPOSURE: C
INT. PRES. COEF: +/- 0.18
BUILDING: ENCLOSED
OPENING PROTECTION: IMPACT GLASS

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND OTHER INFORMATION. ANY DISCREPANCIES

Coral Key Design, Inc.
3731 miller ave.
West Palm Beach, FL 33405
561-722-3890

RYAN HOWARD, PE

[illegible]

REVISION:

[illegible]

PROPOSED RESIDENCE

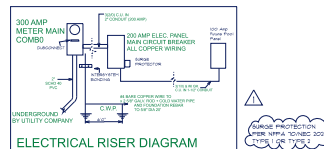
CUSTOMER:
CORY BEATON

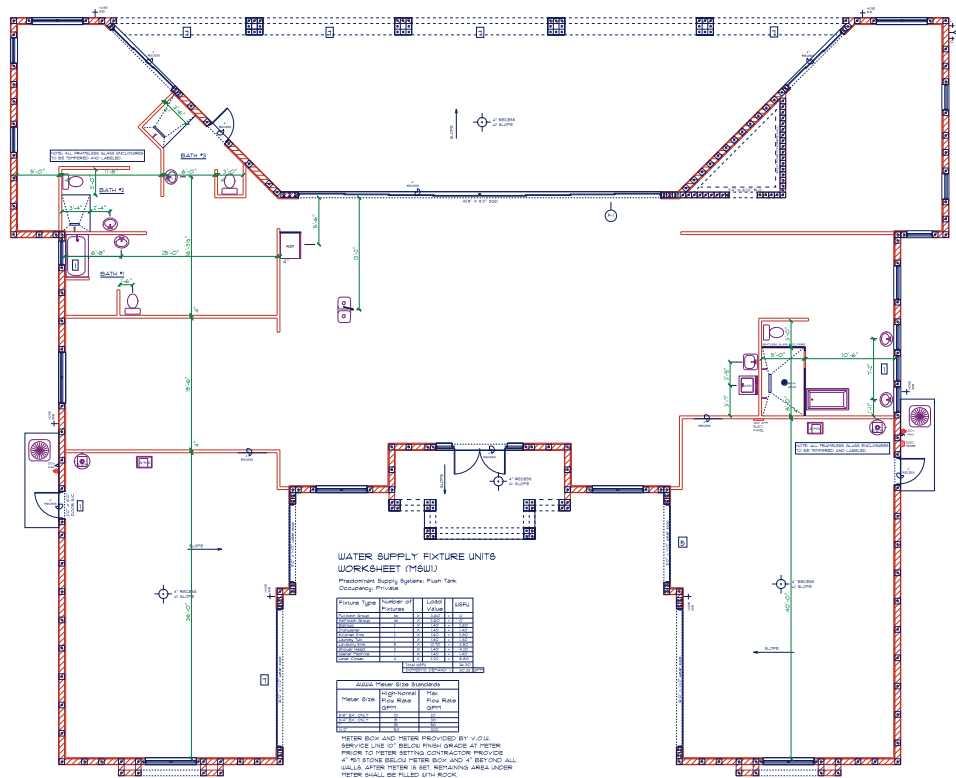
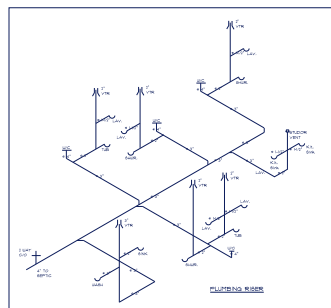
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9

9

100 AMP ELECTRIC PANEL									
DEGR.	DESCRIPTION	POLE	LINE	AMP	DEGR.	DESCRIPTION	POLE	LINE	AMP
3	ALUM #1	2	8	60	2	A/C COMP #1	2	8	50
5	ALUM #2	2	10	30	6	A/C COMP #2	2	10	35
9	WATER HTR #1	2	10	30	10	RANGE	2	6	30
11	WATER HTR #2	2	10	30	12	DRYER	2	10	30
15	APPLIANCEB	1	12	20	15	PUMP	2	12	20
16	APPLIANCEB	1	12	20	20	DISHWASHER	1	12	20
21	BURNT BEDROOM	1	14	15	24	MICROWAVE	1	12	15
23	KITCHEN GRF#	1	14	15	26	FLEX ROOM	1	14	15
25	VIPPER GRF#	1	12	15	28	WASHER	1	12	15
27	GRF#	1	12	15	30	R/D'S	1	12	15
29	SPARE				32	GEN. LGS.	1	12	20
31	GREAT ROOM	1	12	20	34	REF.	1	12	20
33	GREAT ROOM	1	12	20	36	GEN. LGS.	1	12	20
35	OFFICE	1	14	15	38	BATH GRF#	1	14	15
37	DINING ROOM	1	12	15	40	MASTER BEDROOM	1	12	15
39	SPARE				42	SPARE			
41	SPARE								
					TOTAL = 24,000				
					TOTAL COMBINED = \$9,000				
					• TOTAL = \$10,000 •				
FIRST 10 K.W. @ 100% 10,000									
REMAINING @ 40% 8,000									
AC 10 K.W. @ 100% 10,000									
TOTAL 28,000									
38,000 SAC = \$8,400									





METER BOX AND METER PROVIDED BY V.O.B.
SERVICE LINE 10" BELOW FINISH GRADE AT METER.
PRIOR TO METER SETTING CONTRACTOR PROVIDE
4" #51 STONE BELOW METER BOX AND 4" BEYOND ALL
WALLS. AFTER METER IS SET, REMAINING AREA UNDER
METER SHALL BE FILLED WITH ROCK.

TABLE 60-4 MAXIMUM FLOWRATES AND CONSUMPTION FOR PUMPING FIXTURES AND FIXTURE FITTINGS

Urinary fixture	2.2 gpm @ 80 psi
Shower head	2.5 gpm @ 80 psi
Sink, faucet	2.2 gpm @ 80 psi
Water closet	1.6 gallons per flushing cycle

[illegible]

PLUMBING PLAN
SCALE: 3/16" = 1'-0"

FBC 2023, 6th EDITION
 IFO MPA 3-88C GUST WIND SPEED
 FBC 2023, 6th EDITION MECHANICAL CODE
 FBC 2023, 6th EDITION PLUMBING CODE
 FBC 2023, 6th EDITION RESIDENTIAL CODE
 NEC 2020, NFPA 70 ELECTRICAL CODE
 RISK CATEGORY: II
 BLDG CAT: VB
 OCCUPANCY: R-3
 EXPOSURE: C
 NT, PRES. COEF. +/- 0.18
 BUILDING: ENCLOSED
 OPENING PROTECTION: IMPACT CLASS



**Coral Key Design, Inc.**
3731 miller ave.
West Palm Beach, FL 33405
561-722-3890

RYAN HOWARD, PE
FL. LIC. # 67403
525 VIA MELANO CT.
LAREMONT, FL. 34711
407-463-0474

REVISION: Δ added correct address

A PROPOSED RESIDENCE
JOB ADDRESS:
18250 SE LOXAHATCHEE RIVER RD
JUPITER, FL 33458

CUSTOMER:
CORY BEATON

SHEET
P-1



MARTIN COUNTY BUILDING DEPARTMENT
900 SE RUHNKE STREET
STUART, FL 34994
(772) 288-5916 Text: (202) 937-0892
permitting@martin.fl.us

MARTIN COUNTY BUILDING DEPARTMENT PRODUCT APPROVAL CHECKLIST

NOTE: THIS FORM NOT REQUIRED IF INFORMATION ON PLANS

Permit Type: Single Family Residence Permit Number: BLD2025080317 Owner's Name: Cory Beaton
Design Professional Name A/E: Ryan Howard PE Job Site Location: 18250 SE Loxahatchee River Rd.

Rule F.A.C. 61G20-3 requires the following information as promulgated by the Florida Building Commission. In the event that information required for product approval has been incorporated into the plans, specifications or general notes, simply indicate page number on the affidavit.

Product	Model Number	Manufacturer	Evaluation Agency	Product Approval # FL/NOA	Expiration Date
Windows	Series 5000 Aluminum Casement Window	E.S. Windows, Inc.	Keystone Certifications, Inc.	FL41000-R1	03/24/2035
Exit Doors	ES- SGD2020 Sliding glass doors	E.S. Windows, Inc.	Keystone Certifications, Inc.	FL 22267-R13	07/16/2035
Garage Doors	Series "EL-150" Aluminum Fixed Window	E.S. Windows, Inc.	Keystone Certifications, Inc.	23-0714.17	May 18, 2027
Off-Ridge Vents/Ridge Vent	Series ES-EL 300-IF Aluminum Outswing door with side lites	E.S. Windows, Inc.	Keystone Certifications, Inc.	23-0714.10	Jan 4, 2028
Soffits	Therma-Tru Fibre-Clares and Smooth-Blat awning window door	Therma-Tru Corporation	National Accreditation and Management Institute	FL20468-R6	12/31/2026
Skylights	Window 450 Estate FD450	PGT	A. Lynn Miller	331	08/20/2030
Shutters					
Roofing Materials	1in 26ga (Extreme) FL	SNAPMAXFL25621.01-R3	Timberlake Cove, LLC	FL25621.01-R3	
Panel Walls					
Structural Components & Cladding					
New/Alternative Materials					

In accordance with the Florida Architects and Engineers product approval system, this affidavit certifies that I have performed the building envelope evaluation as required by the Florida Building Code.

Architect/Engineer's Signature & Seal

ADA Accessibility Disclosure Statement – This document may be requested in an alternative format by contacting the County ADA Coordinator (772) 320-3131, the County Administration Office (772) www.martin.fl.us/accessibility-feedback.



FL Cert. /Reg. Number

67403
request in an alternative format by contacting the County ADA Relay 711, or by completing our accessibility feedback form at



MARTIN COUNTY BUILDING DEPARTMENT
900 SE RUHNKE STREET
STUART, FL 34994
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permitting@martin.fl.us

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Panel Walls					
Structural Components & Cladding					
New/Alternative Materials					

In accordance with the Florida Architects and Engineers product approval system, this affidavit certifies that I have performed the building envelope evaluation as required by the Florida Building Code.

Architect/Engineer's Signature & Seal

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request in an alternative format by contacting the County ADA Relay 711, or by completing our accessibility feedback form at

From: [Jeffrey Dougherty](#)
To: [Cindy Carson](#)
Subject: FW: Building Permit Application BLD2025080317
Date: Friday, April 24, 2026 12:00:21 PM
Attachments: [BLD2025080317 Issues Report 04.23.26.pdf](#)

Jeffrey Dougherty
Building Official - Director
Building Department
(772) 288-5491

From: Jeffrey Dougherty
Sent: Friday, April 24, 2026 12:00 PM
To: cbeaton87@aol.com
Cc: Paul Schilling <pschilli@martin.fl.us>; Sebastian Fox <sfox@martin.fl.us>; Elysse Elder <eelder@martin.fl.us>; Sebastian Poprawski <spoprawski@martin.fl.us>
Subject: Building Permit Application BLD2025080317

Please disregard the prior attached Conditions Report and utilize the attached Issues Report dated 04/23/26.

Sorry for the inconvenience.

From: do_not_reply@martin.fl.us <do_not_reply@martin.fl.us>
Sent: Friday, April 24, 2026 11:48 AM
To: cbeaton87@aol.com
Cc: pschilling@martin.fl.us; Sebastian Fox <sfox@martin.fl.us>; Elysse Elder <eelder@martin.fl.us>; Jeffrey Dougherty <jdougherty@martin.fl.us>
Subject: Building Permit Application BLD2025080317

Caution this email originated from an external source

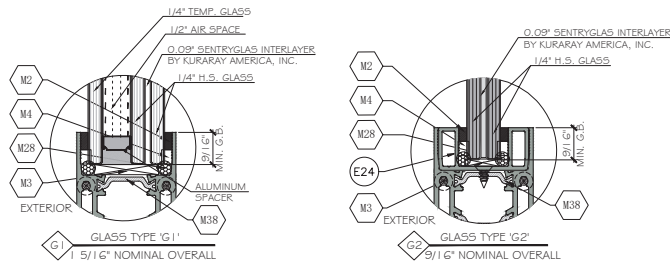


Martin County is not able to issue a Building Permit for application BLD2025080317 due to the inability to meet the zoning requirements identified in the attached "Conditions Report". Therefore, the permit application has been denied.

Should you have any questions, please contact the Growth Management Department regarding the Zoning requirements.

Thank you.

ES WINDOWS
SERIES SGD 1010T SLIDING GLASS DOOR - 2 TRACK
LARGE MISSILE IMPACT



NOTE:
GLASS COMPLIES WITH ASTM E 1300-09
(3 SEC. GUSTS).
GLASS COMPLY WITH ANSI Z97.1.

SERIES SGD 1010T SLIDING GLASS DOOR

APPLICABLE EGRESS REQUIREMENTS PER FBC TO BE REVIEWED BY BUILDING OFFICIAL.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

THESE DOORS ARE APPROVED FOR AIR AND WATER INFILTRATION.

DOORS RATED FOR LARGE MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL / METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023) SECTION AS APPLICABLE.

METAL STRUCTURES BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

INSTRUCTIONS:

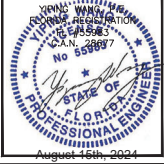
USE CHARTS AS FOLLOWS

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.
- STEP 2** SEE ALLOWABLE CONFIGURATIONS ON SHEETS E1 TO E4. SEE CHARTS ON SHEET E1 TO E3 FOR ALLOWABLE DESIGN LOAD BASED ON DESIRED GLASS TYPE..
- STEP 3** SEE SHEET A1#A2 SELECT ANCHOR OPTION .
- STEP 4** THE LOWEST VALUE RESULTING FROM STEPS 2 THRU 3 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS	
D.O. - DAYLITE OPENING	C. - CENTER LINE
F.H. - FRAME HEIGHT	S.S. - STAINLESS STEEL
F.W. - FRAME WIDTH	H.S. - HEAT STRENGTHENED
LG. - LONG	SSG - STRUCTURAL SILICONE
STL - STEEL	GLAZED
ALUM. - ALUMINUM	TEMP. - TEMPERED
MULL. - MULLION	O.C. - ON CENTER
HORIZ. - HORIZONTAL	G.D. - GLASS DITE
W/ - WITH	SECTION NUMBER
W/O - WITHOUT	
VERT. - VERTICAL	
T.H. - TRANSOM HEIGHT	

- LIMITATIONS OF USE**
- A. THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERAL AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT. IN OTHERS THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- B. CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HEREIN DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- C. THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- D. SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHOSE NAME SHALL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.
- E. THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FL46878.1



MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027
P: 305.271.0117
www.mcyengineering.com mcy@mcyengineering.com

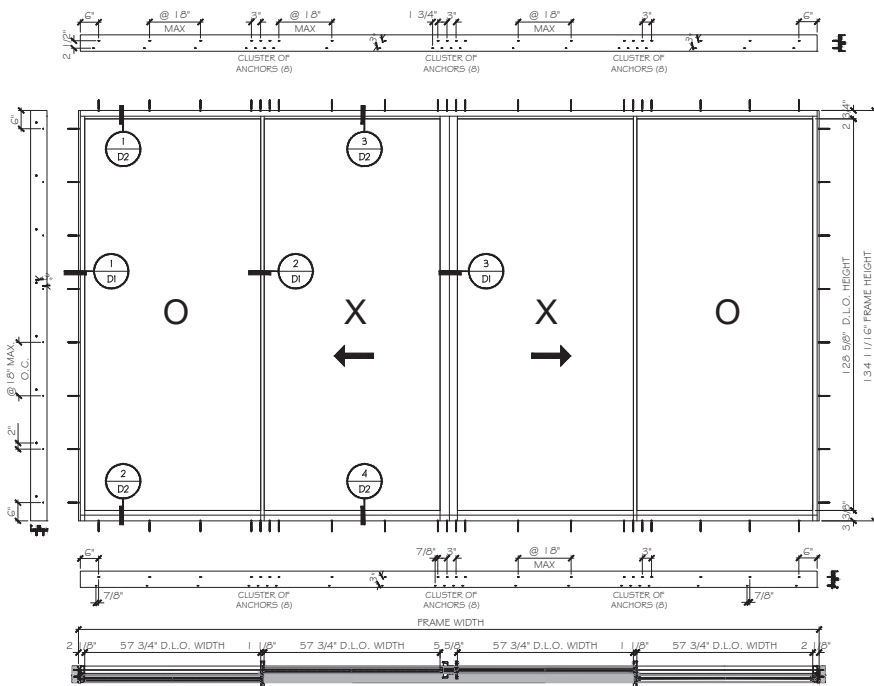
ES WINDOWS, INC.
10053 NE Quayridge Ct.
Miami, FL 33138
TEL: (305) 224-7775

ES-SGD1010T SLIDING GLASS DOOR-L.M.I.

Drawn Date	07/03/2024	Scale	AS SHOWN
Drawn By		Check By	
Rev.		Rev.	

DRAWING NO.
AD24-18

COVER
Sheet No.
01 OF 19



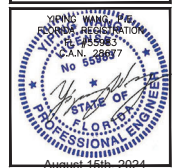
TYPICAL EXTERIOR ELEVATIONS (OXXO) NORMAL SILL
OTHER CONFIGURATION SEE SHEET E4

INTERLOCK OPTION			
Level 1	Level 2	Level 3	Level 4

NORMAL SILL SLIDING DOOR CAPACITY - PSF				
A.P.W.(IN) MAX.	F.H.(IN) MAX.	INTERLOCK	DESIGN LOAD MAX. FOR WATER RESISTANCE	GLASS
48 11/16	110 11/16	LEVEL 1	+/-45	G1/G2
60 3/4	134 11/16	LEVEL 2	+/-45	G1/G2
60 3/4	134 11/16	LEVEL 3	+/-75	G1/G2
63 5/16	134 1/4	LEVEL 4	+/-75	G1/G2

NOTE
1. A.P.W.: AVERAGE PANEL WIDTH
(FRAME WIDTH/ NUMBER OF PANELS).
2. F.H.: FRAME HEIGHT.

FL46878.1

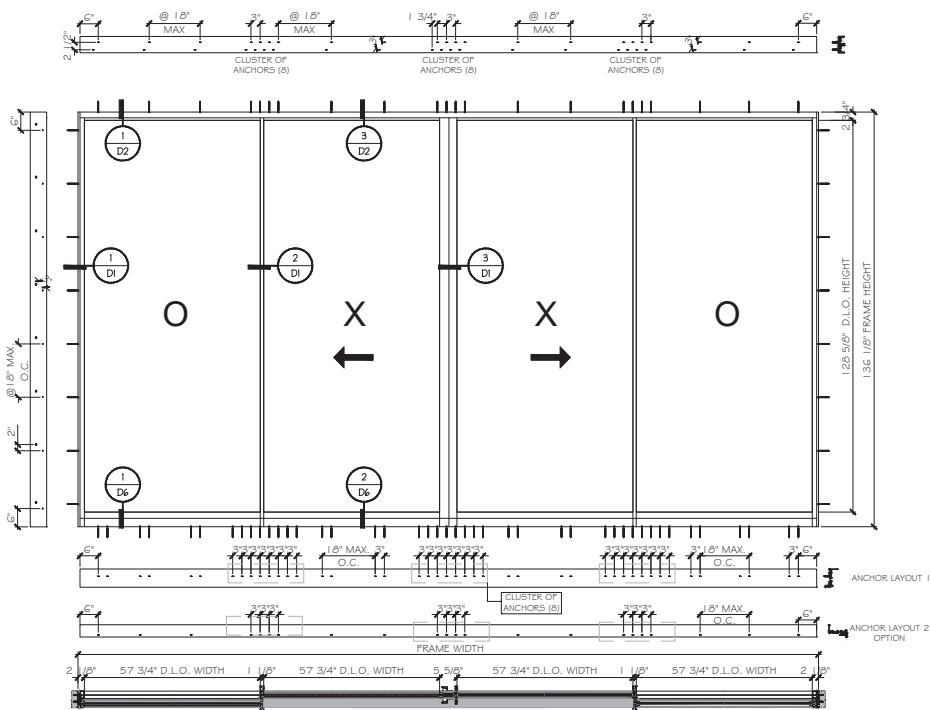


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www.mcyengineering.com mcy@mcyeengineering.com

ES WINDOWS, INC.
10053 NE Quayridge Ct.
Miami, FL 33138
TEL: (305) 624-7775

Rev.	Date	By	Checked

Drawn Date: 07/03/2024 Scale: AS SHOWN
DRAWING NO: AD24-18
E1
Sheet No: 02 OF 19

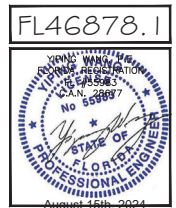


TYPICAL EXTERIOR ELEVATIONS (OXXO) GUTTER SILL
OTHER CONFIGURATION SEE SHEET E4

INTERLOCK OPTION			
Level 1	Level 2	Level 3	Level 4

GUTTER SILL SLIDING DOOR CAPACITY - PSF				
A.P.W.(IN) MAX.	F.H.(IN) MAX.	INTERLOCK	DESIGN LOAD MAX. FOR WATER RESISTANCE	GLASS
48 11/16	112 1/8	LEVEL 1	+/-45	G1/G2
60 3/4	136 1/8	LEVEL 2	+/-45	G1/G2
60 3/4	136 1/8	LEVEL 3	+/-75	G1/G2
63 5/16	135 11/16	LEVEL 4	+/-75	G1/G2

NOTE
1. A.P.W.: AVERAGE PANEL WIDTH
(FRAME WIDTH/ NUMBER OF PANELS).
2. F.H.: FRAME HEIGHT.



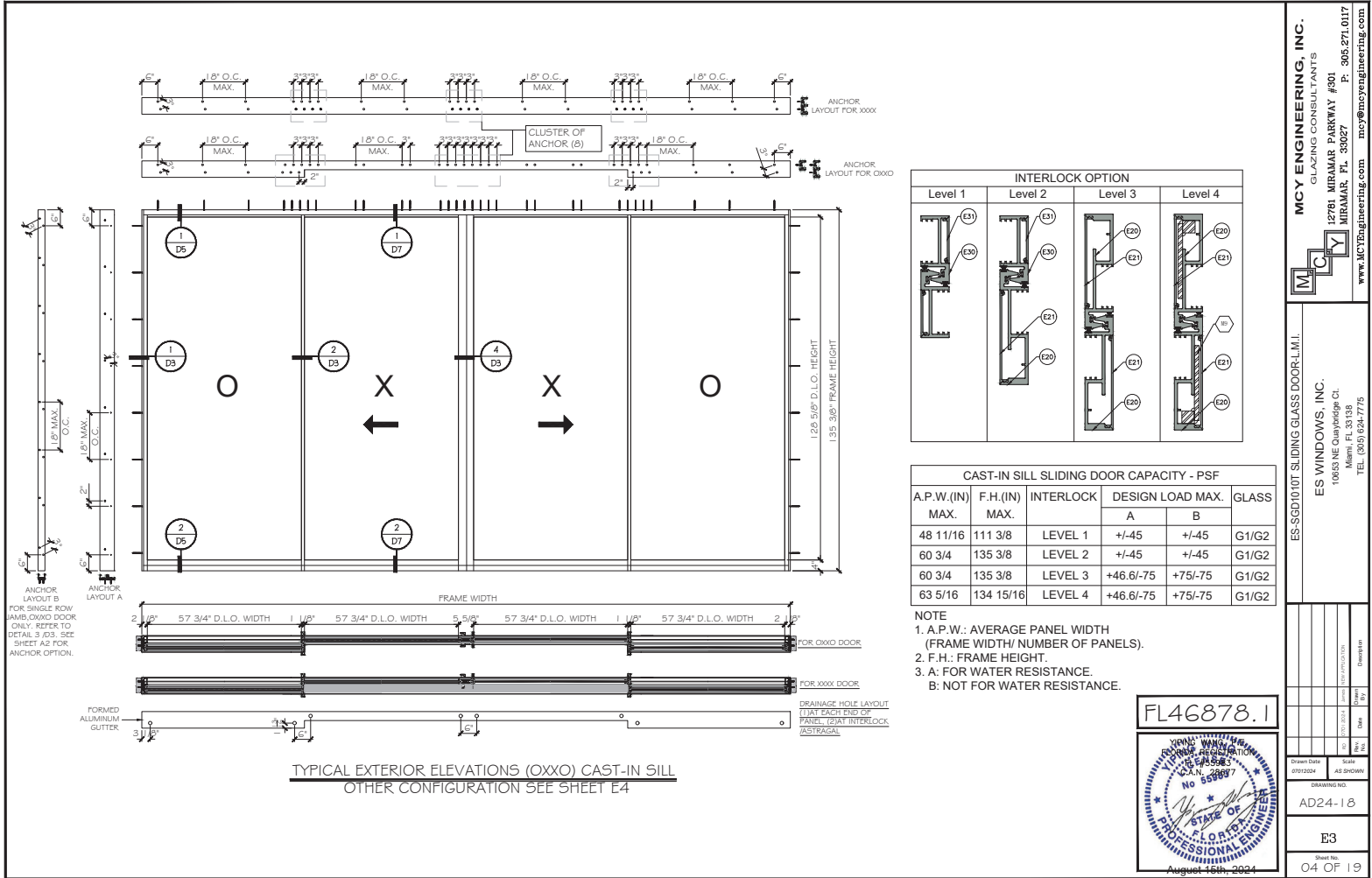
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ES-SGD1010T SLIDING GLASS DOOR-L.M.I.

Drawn Date: 07/03/2024
Scale: AS SHOWN
Drawing No: AD24-18
Sheet No: E2
August 16th, 2024

03 OF 19



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12781 MIRAMAR PARKWAY #301
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P: 305.271.0117
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ES-SGD1010T SLIDING GLASS DOOR-L.M.I.

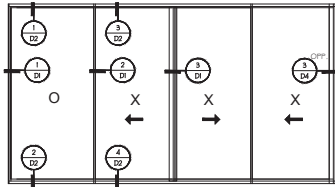
ES WINDOWS, INC.
10053 NE Quaybridge Ct.
Miami, FL 33138
TEL: (305) 624-7775

Drawn Date: 07/02/24
Scale: AS SHOWN
Drawing No.: AD24-18
Sheet No.: E3
August 16th, 2024

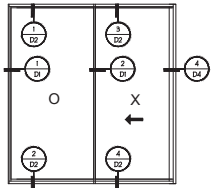
04 OF 19

APPROVED DOOR CONFIGURATIONS - 2 TRACK DOORS (SEE SHEET E1 TO E3 FOR APPROVED DOOR SIZE AND INTERLOCK OPTIONS)

NORMAL SILL (MAX. DP: +75/-75 PSF)



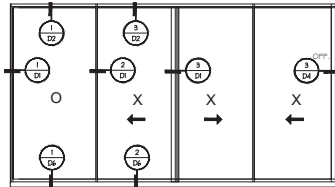
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XX XO



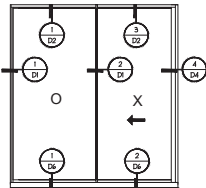
OX(SHOWN)
XO/XX

ANCHOR LAYOUT SEE SHEET E1

GUTTER SILL (MAX. DP: +75/-75 PSF)



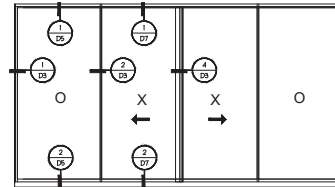
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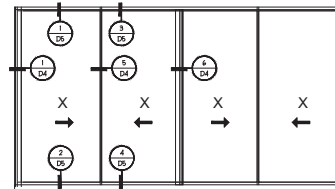
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ANCHOR LAYOUT SEE SHEET E2

CAST-IN SILL (MAX. DP: +75/-75 PSF)

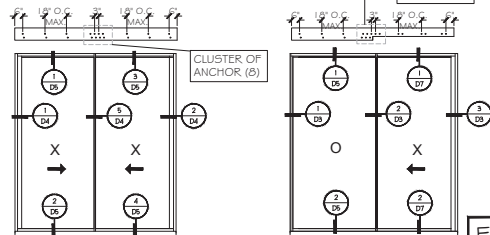


OX XO



XXXX(SHOWN)/ OXXX/ XX XO

ANCHOR LAYOUT SEE SHEET E3

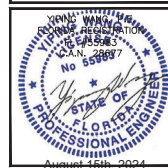


XX(SHOWN)
OX/XO

OX(SHOWN)
XO

HEAD ANCHOR LAYOUT AS SHOWN, SEE SHEET E3 FOR JAMB ANCHOR LAYOUT

FL46878.1



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TEL: (305) 244-7775

Rev.	Date	Description
1	07/17/2024	AS SHOWN

Sheet No. AD24-18
E4
05 OF 19

TYPICAL ANCHOR TYPES:

TYPE "A": 1/4" ULTRACON+BY DEWALT (Fu=164 KSI, Fy=148KSI).
 1 1/2" MIN. PENETRATION INTO 2X WOOD OR WOOD STRUCTURES
 OR THRU. 1X WOOD BUCK INTO CONCRETE OR BLOCKS.
 W/ 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/JAMB/SILL)
 W/ 1-1/4" MIN. EMBED INTO HOLLOW BLOCK(JAMB ONLY)
 W/ 1-3/4" MIN. EMBED INTO GROUT FILLED BLOCK(JAMB ONLY)

TYPE "B": 1/4" ULTRACON+BY DEWALT (Fu=164 KSI, Fy=148 KSI).
 DIRECTLY INTO CONCRETE OR BLOCK
 W/ 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/JAMB/SILL)
 W/ 1-1/4" MIN. EMBED INTO HOLLOW BLOCK(JAMB ONLY)
 W/ 1-3/4" MIN. EMBED INTO GROUT FILLED BLOCK(JAMB ONLY)

TYPE "C": 1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 (Fu=120 KSI, Fy=92 KSI).
 INTO FBC APPROVED MULLION OR METAL STRUCTURE (HEAD/JAMB/SILL)
 ALUMINUM: 3/16" THK. MIN. (6063-T5 MIN.)
 STEEL: 3/16" THK. MIN. (Fy=33KSI, MIN.)
 (3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE
 STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

MIN. EDGE DISTANCE:

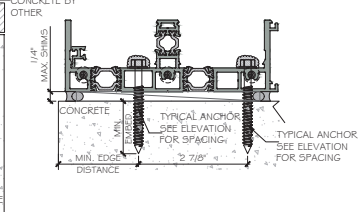
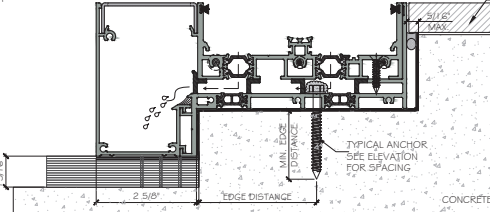
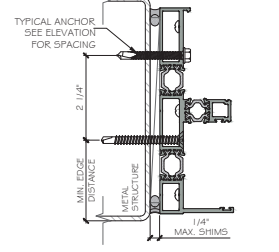
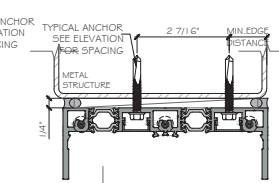
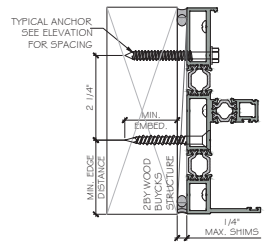
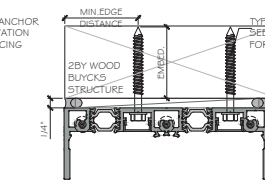
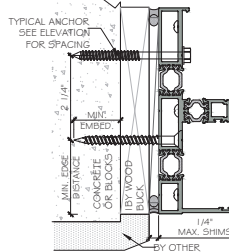
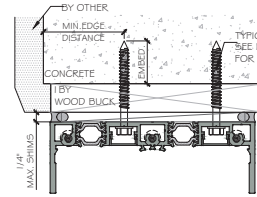
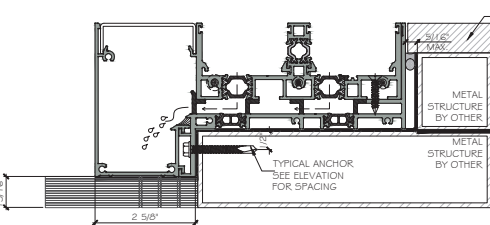
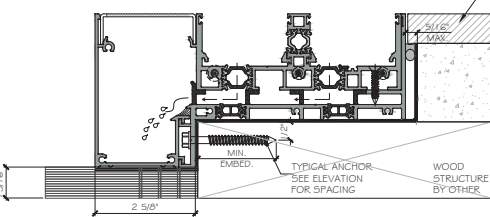
INTO CONCRETE OR MASONRY: 2 1/2" MIN.

INTO WOOD(SG=0.55MIN.) : 1" MIN.

INTO METAL STRUCTURE: 3/4" MIN.

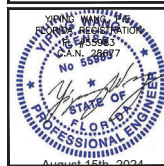
CONCRETE AT HEAD, SILL OR JAMBS Fc=3ksi MIN.

C-90 HOLLOW OR GROUT FILLED BLOCK AT JAMB ONLY F'm=2psi MIN.



NOTE: WOOD BUCKS & METAL STRUCTURES BY OTHERS MUST BE PROPERLY SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURES.

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MCY ENGINEERING, INC.
 GLAZING CONSULTANTS
 12781 MIRAMAR PARKWAY #301
 MIRAMAR, FL 33027
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 www.mcyengineering.com

ES WINDOWS, INC.
 10053 NE Quayridge Ct.
 Miami, FL 33138
 TEL: (305) 624-7775

Rev.	Date	By	Checked

Drawn Date: 07/03/2024
 Scale: AS SHOWN
 DRAWING NO.: AD24-18
 A1
 Sheet No. 06 OF 19

TYPICAL ANCHOR TYPES:

TYPE "A": 1/4" ULTRA-CON+BY DEWALT (Fu=164 KSI, Fy=148KSI).

1 1/2" MIN. PENETRATION INTO 2X WOOD OR WOOD STRUCTURES OR THRU. 1X WOOD BUCK INTO CONCRETE OR BLOCKS.

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

W/ 1-1/4" MIN. EMBED INTO HOLLOW BLOCK(JAMB ONLY)

W/ 1-3/4" MIN. EMBED INTO GROUT FILLED BLOCK(JAMB ONLY)

TYPE "B": 1/4" ULTRA-CON+BY DEWALT (Fu=164 KSI, Fy=148 KSI).

DIRECTLY INTO CONCRETE OR BLOCK

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

W/ 1-1/4" MIN. EMBED INTO HOLLOW BLOCK(JAMB ONLY)

W/ 1-3/4" MIN. EMBED INTO GROUT FILLED BLOCK(JAMB ONLY)

TYPE "C": 1/4" DIA. TEKS/DRILL-FLEX SCREW GRADE 5 (Fu=120 KSI, Fy=92 KSI).

INTO FBC APPROVED MULLION OR METAL STRUCTURE (HEAD/JAMB/SILL)

ALUMINUM: 3/16" THK. MIN. (6063-T5 MIN.)

STEEL: 3/16" THK. MIN. (Fy=33KSI, MIN.)

(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE

STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

MIN. EDGE DISTANCE:

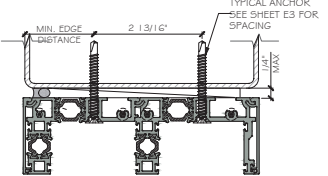
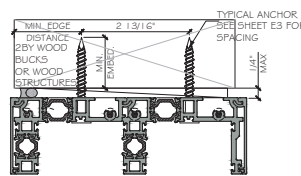
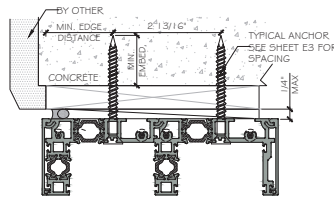
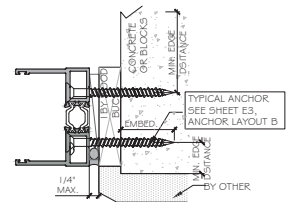
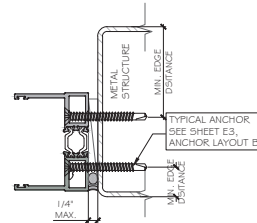
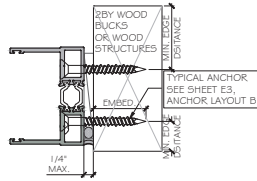
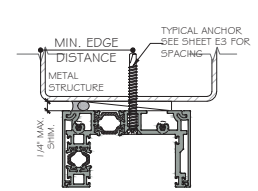
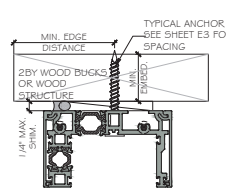
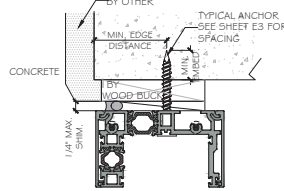
INTO CONCRETE OR MASONRY: 2 1/2" MIN.

INTO WOOD(SG=0.55MIN.): 1" MIN.

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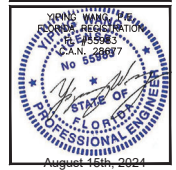
CONCRETE AT HEAD, SILL OR JAMBS f'c=3ksi MIN.

C-90 HOLLOW OR GROUT FILLED BLOCK AT JAMB ONLY f'm=2psi MIN.

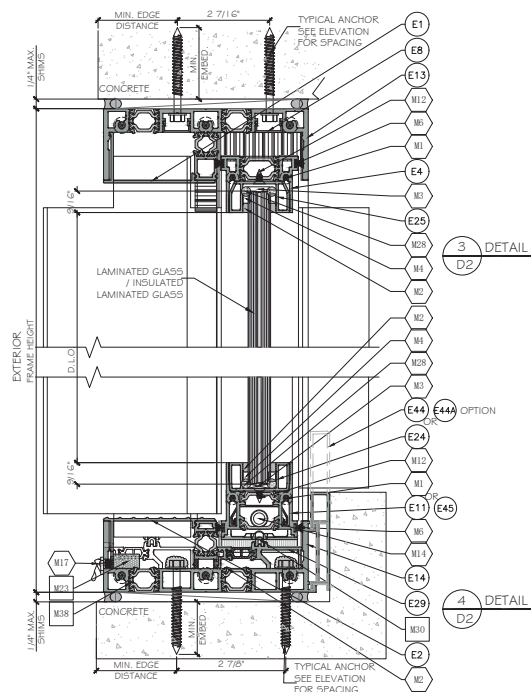


NOTE: WOOD BUCKS & METAL STRUCTURES BY OTHERS MUST BE PROPERLY SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURES.

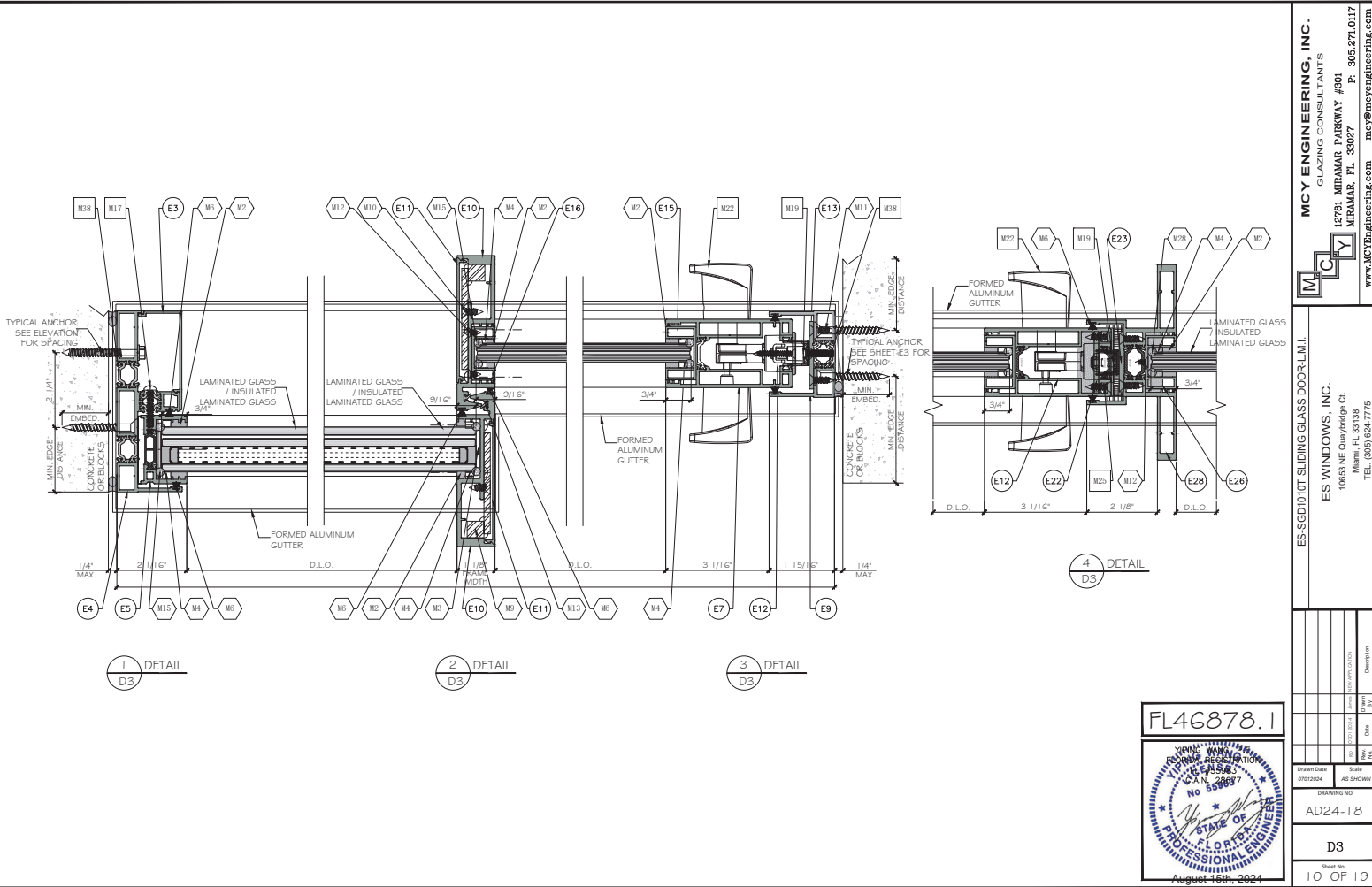
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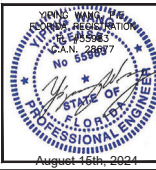
MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 MIRAMAR, FL 33027 P: 305.271.0117 www.mcyengineering.com	
ES WINDOWS, INC. 10053 NE Quarryridge Ct. Miami, FL 33138 TEL: (305) 924-7775	
ES-SGD1010T SLIDING GLASS DOOR-L.M.I.	
Drawn Date: 07/03/2024 Scale: AS SHOWN Drawing No.: AD24-18 Sheet No.: A2 August 16th, 2024	Date: 07/03/2024 By: [Signature] Check: [Signature] Appr: [Signature]



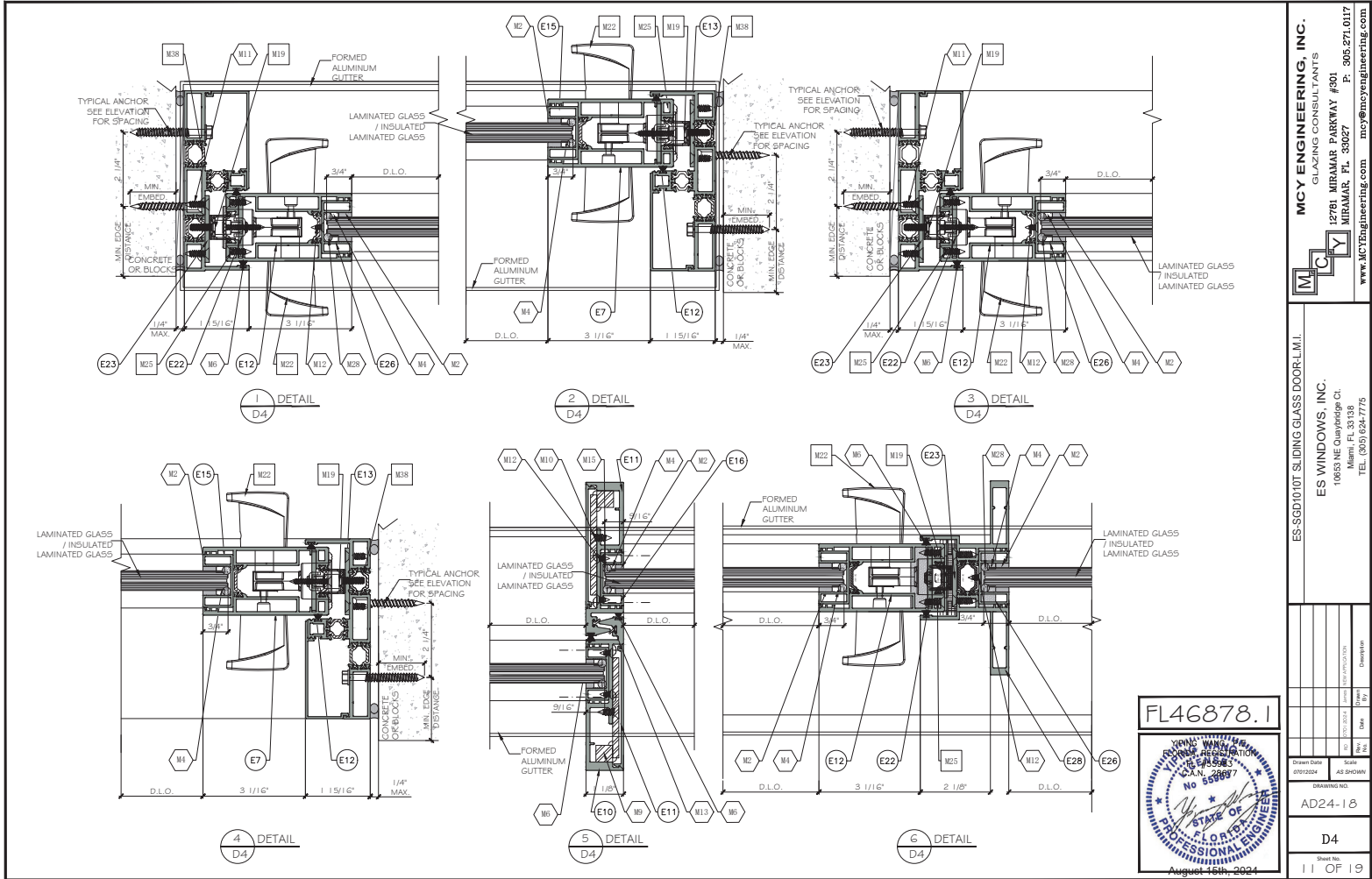
Drawing Date 10/12/2024	Scale AS SHOWN
DRAWING NO. AD24-18	
D2	
Sheet No. 09 OF 19	

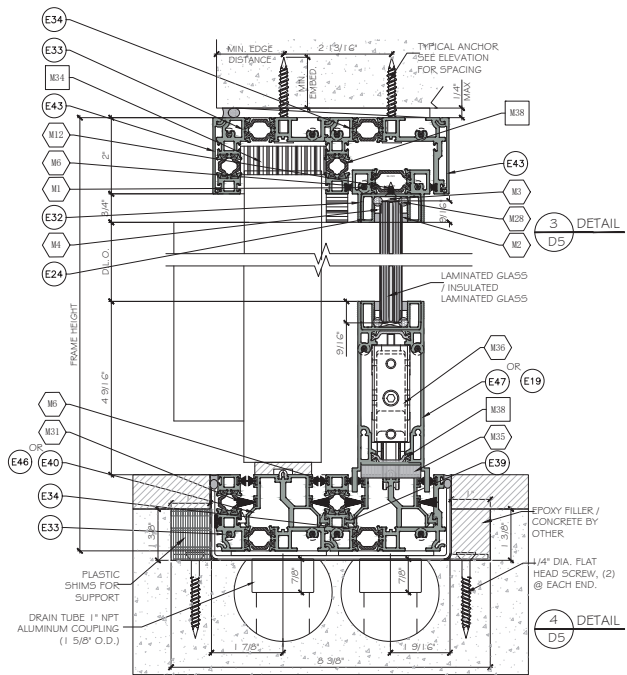
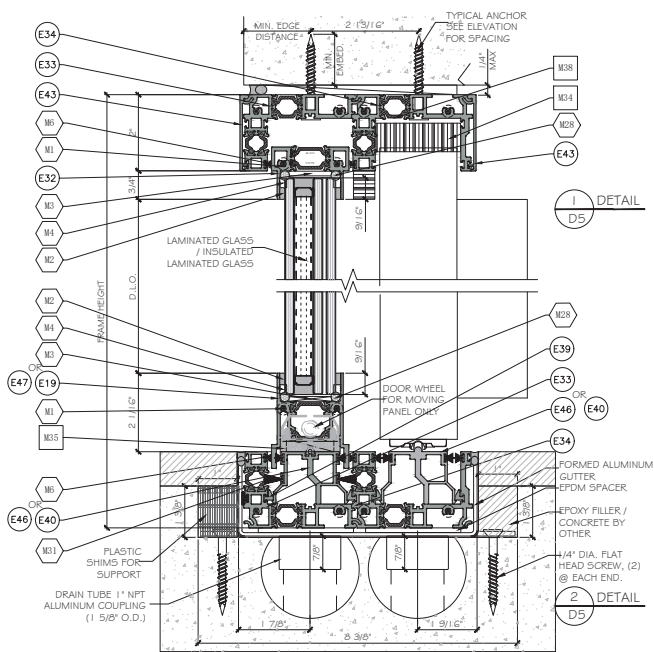


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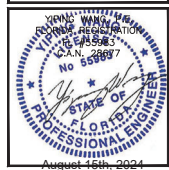


ES-SGD1010T SLIDING GLASS DOOR L.M.I.	
ES WINDOWS, INC. 10053 NE Quayridge Ct. Miami, FL 33138 TEL: (305) 247-7775	
MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 MIRAMAR, FL 33027 P: 305.271.0117 www.mcyengineering.com mcy@mcyengineering.com	
Drawn Date	Scale
07/03/2024	AS SHOWN
DRAWING NO.	
AD24-18	
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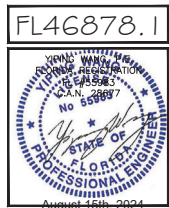
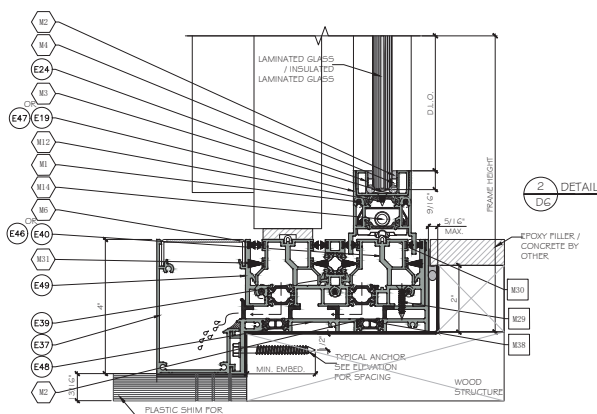




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ES WINDOWS, INC. 10053 NE Quayridge Ct. Miami, FL 33138 TEL: (305) 624-7775	
ES-SGD1010T SLIDING GLASS DOOR-L.M.I.	
Drawn Date: 07/03/2024 Scale: AS SHOWN Drawing No: AD24-18 Sheet No: D5 August 16th, 2024	Date: 07/03/2024 By: [Signature] Check: [Signature] Date: 07/03/2024 By: [Signature] Check: [Signature]



MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027 P: 305.271.0117
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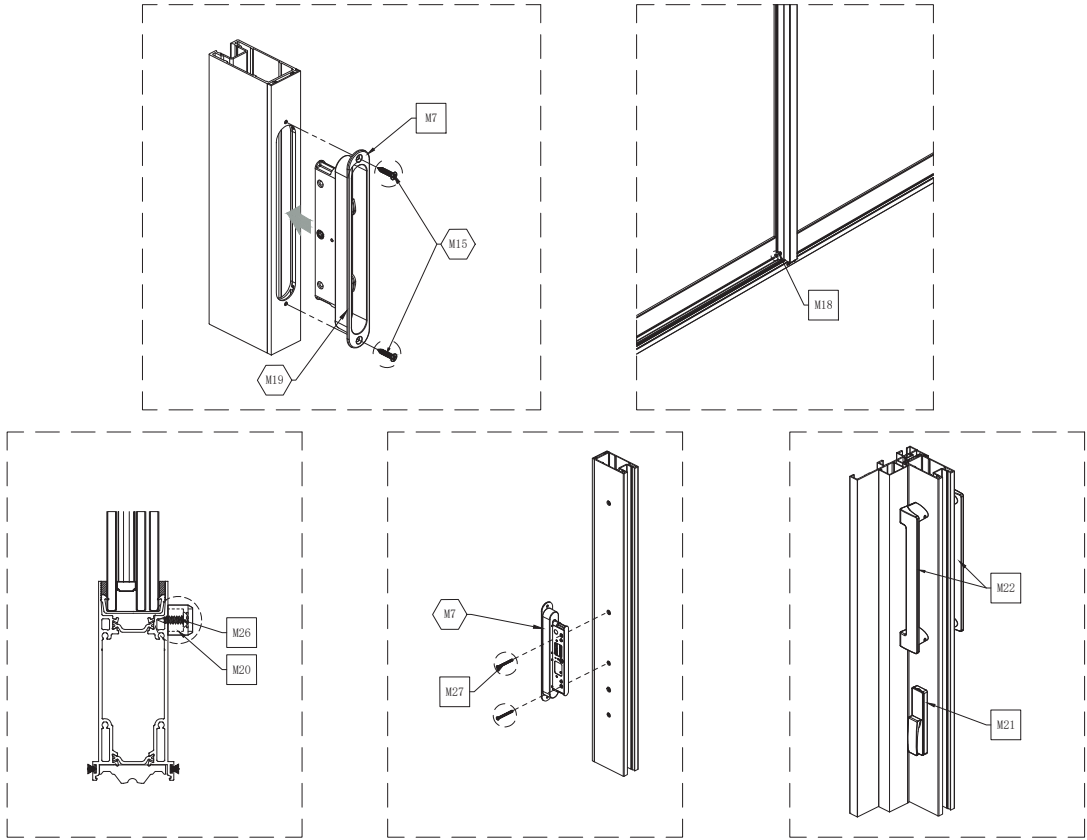
ES WINDOWS, INC.
10853 NE Quaybridge Ct.
Miami, FL 33138
TEL: (305) 624-7775

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Drawn Date 07012024	Scale AS SHOWN
DRAWING NO. AD24-18	
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Drawn Date	Scale
07/01/2024	AS SHOWN
DRAWING NO.	
AD24-18	
D7	
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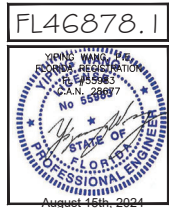
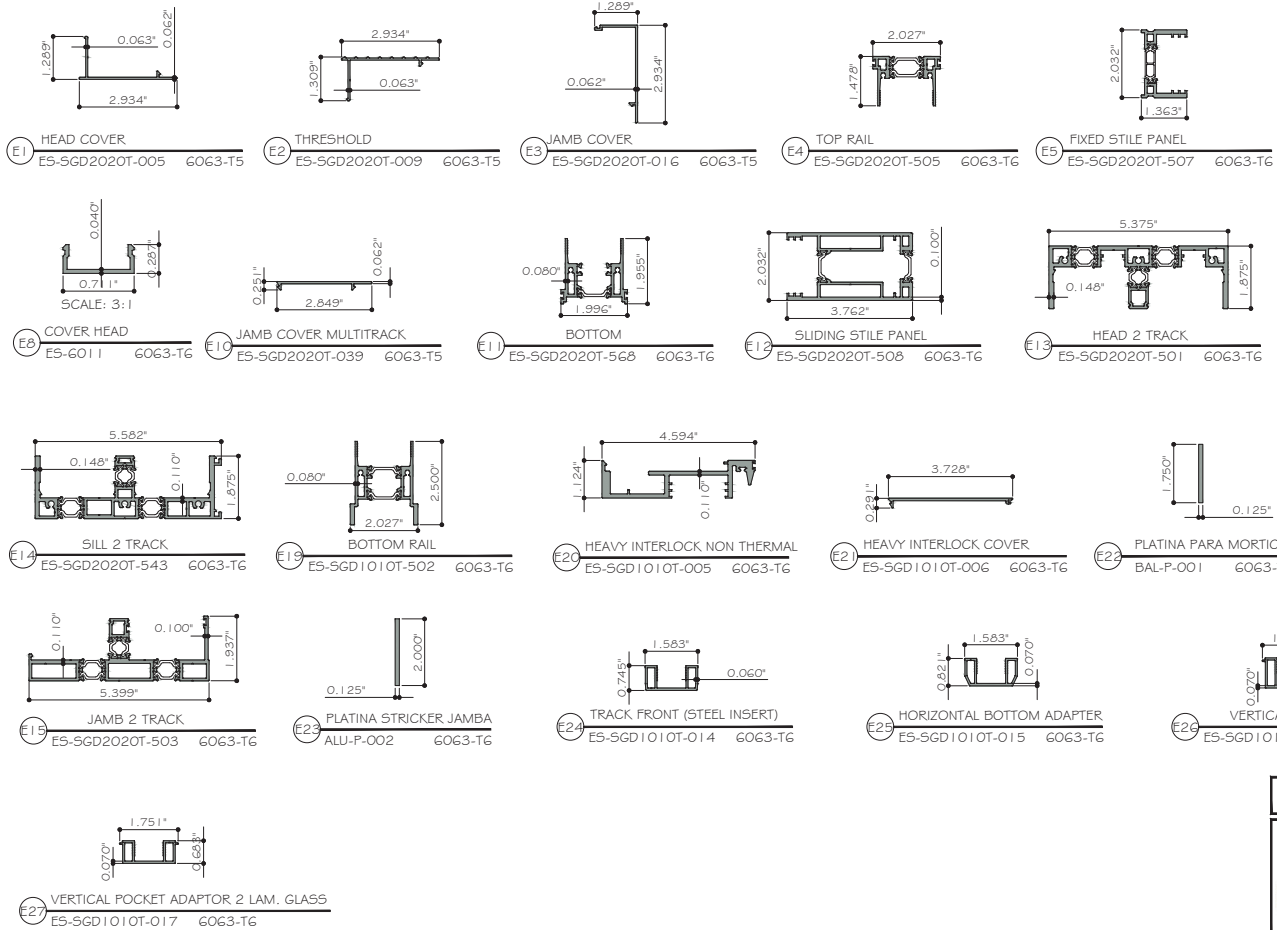


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August 16th, 2024

Professional Engineer
State of Florida
No. 55597

ES-WINDOWS, INC. 10053 NE Quayside Ct. Miami, FL 33138 TEL: (305) 624-7775		ES-SGD1010T SLIDING GLASS DOOR-L.M.I.
MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 MIRAMAR, FL 33027 P: 305.271.0117 www.MCYEngineering.com mcy@mcyengineering.com		Sheet No. 15 OF 19



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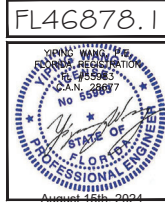
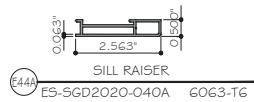
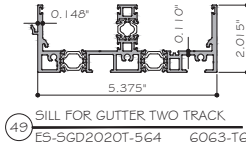
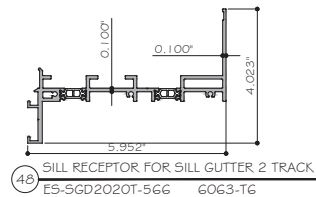
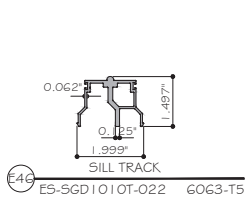
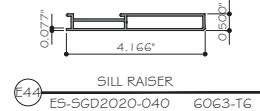
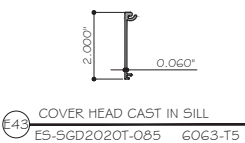
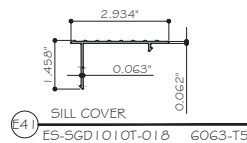
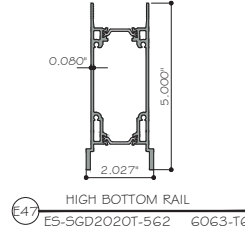
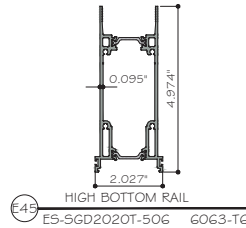
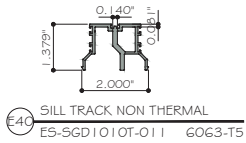
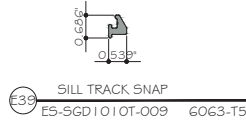
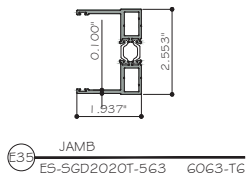
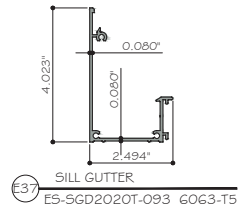
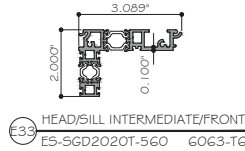
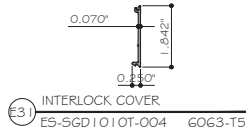
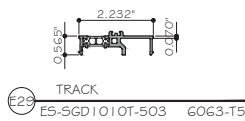
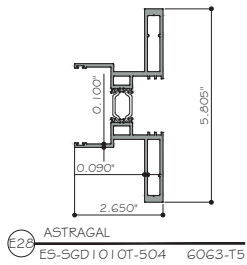
Rev.	Date	By	Checked by

Drawn Date: 07/02/2024 Scale: AS SHOWN

DRAWING NO: AD24-18

P1

Sheet No: 16 OF 19



MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 MIRAMAR, FL 33027 P: 305.271.0117 www.MCYEngineering.com mcy@mcyengineering.com	
ES-WINDOWS, INC. 10053 NE Quaybridge Ct. Miami, FL 33138 TEL: (305) 624-7775	
ES-SGD1010T SLIDING GLASS DOOR-L.M.I.	
Drawn Date: 07/03/2024 Scale: AS SHOWN Drawing No: AD24-18 Sheet No: P2 August 16th, 2024	Date: 07/03/2024 Drawn By: YIPING WANG Checked By: YIPING WANG Approved By: YIPING WANG

BILL OF MATERIAL			
CODE	PART	DESCRIPTION	MATERIAL
E1	ES-SGD2020T-005	HEAD COVER	6063-T5
E2	ES-SGD2020T-009	THRESHOLD	6063-T5
E3	ES-SGD2020T-016	JAMB COVER	6063-T5
E4	ES-SGD2020T-505	TOP RAIL	6063-T6
E5	ES-SGD2020T-507	FIXED STILE PANEL	6063-T6
E8	ES-6011	COVER HEAD	6063-T6
E10	ES-SGD2020T-039	JAMB COVER MULTITRACK	6063-T5
E11	ES-SGD2020T-568	BOTTOM	6063-T6
E12	ES-SGD2020T-508	SLIDING STILE PANEL	6063-T6
E13	ES-SGD2020T-501	HEAD 2 TRACK	6063-T6
E14	ES-SGD2020T-543	SILL 2 TRACK	6063-T6
E15	ES-SGD2020T-503	JAMB 2 TRACK	6063-T6
E19	ES-SGD1010T-502	BOTTOM RAIL	6063-T6
E20	ES-SGD1010T-005	HEAVY INTERLOCK NON THERMAL	6063-T6
E21	ES-SGD1010T-006	HEAVY INTERLOCK COVER	6063-T6
E22	BAL-P-001	PLATINA PARA MORTICE	6063-T6
E23	ALU-P-002	PLATINA STRICKER JAMBA	6063-T5
E24	ES-SGD1010T-014	TRACK FRONT (STEEL INSERT)	6063-T6
E25	ES-SGD1010T-015	HORIZONTAL BOTTOM ADAPTER	6063-T6
E26	ES-SGD1010T-016	VERTICAL TOP ADAPTER	6063-T6
E27	ES-SGD1010T-017	VERTICAL POCKET ADAPTOR 2 LAM. GLASS	6063-T6
E28	ES-SGD1010T-504	ASTRAGAL	6063-T5
E29	ES-SGD1010T-503	TRACK	6063-T5
E30	ES-SGD1010T-003	INTERLOCK N.T.	6063-T6
E31	ES-SGD1010T-004	INTERLOCK COVER	6063-T5
E32	ES-SGD1010T-501	TOP RAIL	6063-T6
E33	ES-SGD2020T-560	HEAD/SILL INTERMEDIATE/FRONT	6063-T6
E34	ES-SGD2020T-561	HEAD/SILL BACK	6063-T6

BILL OF MATERIAL			
CODE	PART	DESCRIPTION	MATERIAL
E35	ES-SGD2020T-563	JAMB	6063-T6
E37	ES-SGD2020T-093	SILL GUTTER	6063-T5
E39	ES-SGD1010T-009	SILL TRACK SNAP	6063-T5
E40	ES-SGD1010T-011	SILL TRACK NON THERMAL	6063-T5
E41	ES-SGD1010T-018	SILL COVER	6063-T5
E43	ES-SGD2020T-085	COVER HEAD CAST IN SILL	6063-T5
E44	ES-SGD2020-040	SILL RAISER (HIGH)	6063-T6
E44A	ES-SGD2020-040A	SILL RAISER	6063-T6
E45	ES-SGD2020T-506	HIGH BOTTOM RAIL	6063-T6
E46	ES-SGD1010T-022	SILL TRACK	6063-T5
E47	ES-SGD2020T-562	HIGH BOTTOM RAIL	6063-T6
E48	ES-SGD2020T-566	SILL RECEPTOR FOR SILL GUTTER 2 TRACK	6063-T6
E49	ES-SGD2020T-564	SILL FOR GUTTER TWO TRACK	6063-T6
M1	8"x1 1/4" Phil Pan Type A 18-8ss	ASSEMBLY SCREW @ PANEL ASSEMBLY	STAINLESS STEEL
M2	D.S. 983	SILICONE STRUCTURAL	SILICONE
M3	ES-U7530-B01A S	GLAZING GASKET FOR LAMINATED/ INSULATED GLASS	SILICONE 70 SHORE A
M4	ES-7530-B02A S	GLAZING GASKET FOR LAMINATED/ INSULATED GLASS	SILICONE 70 DUROMETER
M5	8"x1/2" Phil Pan Type A 18-8ss	ASSEMBLY SCREW @ JAMB STRIKER	STAINLESS STEEL
M6	W23221NG	WEATHERSTRIPPING PILE	POLYETHYLENE
M7	PS01-0035-00B	2 POINT MORTISE LOCK	ZINC DIE CAST
M8	8"x1 1/4" Phil Flat Type A 18-8ss	ASSEMBLY SCREW @ MORTICE	STAINLESS STEEL
M9	3"x3/16" + 1/2"x1/2"	STEEL REINFORCEMENT	GALVANIZED STAINLESS STEEL
M10	8"x1 1/2" Phil Flat Type A 18-8ss	ASSEMBLY SCREW @ PANEL WITH ASTRAGAL	STAINLESS STEEL
M11	10"x3/4" PHIL FLAT TYPE A 18-8SS	STEEL PLATE ALU-P-002	STAINLESS STEEL
M12	8"x5/8 PHIL FLAT TYPE A 18-8SS	PLATE SUPPORT	STAINLESS STEEL
M13	ES-7530-G06	BULT INTERLOCK	EPDM
M14	PP6677.64 MINIMAL ROLLER 250 Kg	RODAJA	-----
M15	8"x1 1/4" AVELLANADO	TORNILLO PARA MORTICE	AC. INOX.

YIPING WANG
FLORIDA REGISTRATION
E-155593
C.A.N. 28697
No 55593
STATE OF FLORIDA
PROFESSIONAL ENGINEER
August 15th, 2024

[illegible]

BILL OF MATERIAL			
CODE	PART	DESCRIPTION	MATERIAL
M16	8"x1/2" Phil Flat self Driller 18-8ss	TORNILLO PARA REFUERZO	STAINLESS STEEL
M17	WA2L-BLK WA2L-SLV WA2L-WHT WA2L-BZE	WEEP COVER BLACK, SILVER, WHITE OR BRONZE	POLYPROPYLENE
M17	WA2L-BLK WA2L-SLV WA2L-WHT WA2L-BZE	WEEP COVER BLACK, SILVER, WHITE OR BRONZE	POLYPROPYLENE
M18	2101 HOLE PLUG	HOLE COVER 1/2"	SILICONE
M19	PS01-1005-00B	2 POINT LOCK STRIKER 1.35" TO 1.45" @ FRAME JAMB	STAINLESS STEEL
M20	BASE & SNAP-FIT	BUMPER BASE & SNAP-FIT CAP BLACK, WHIT & GREY	NYLON 6
M21	PS01-0203-000 WHT	CREST TURN LEVER	ZAMAK
M22	PS01-0208-000 WHT PS01-0208-115 BRZ PS01-0208-117 SILV PS01-0208-00B BLK	CREST HANDLE INT-EXT	ZAMAK
M23	ES-W625-F01	RETICULATED FOAM 30PPI 3/8" x 11/16" x 2"	OPEN CELL FOAM
M24	TOR 10x1 1/4 Phil Pan Type A 18-8ss	ASSEMBLY SCREW @ FIXED PANEL	STAINLESS STEEL
M25	TOR 10-24*3/4 avellanado ac inox	ASSEMBLY SCREW @ CLOSED IN JAMB	STAINLESS STEEL
M26	TOR 10x1 Phil Pan Type A 18-8ss	FOR BUMPER	STAINLESS STEEL
M27	TOR M4x0.7x40mm Phil Flat Screw 18-8ss	-----	STAINLESS STEEL
M28	BACKER ROD 1/4" NEGRO	FOR GLAZING GASKET	-----
M29	TOR 10x1" F.H.	FOR SILLAR SAVE	STAINLESS STEEL
M30	A2016.52 Guia SS LONG : 117.39"	FOR SILL TRACK	GALVANIZED STAINLESS STEEL
M31	W33591NK	WEATHERSTRIPPING	POLYPROPYLENE
M32	D4304AMK .430"x1.00"x.370"	ADHESIVE PILE PAD	POLYPROPYLENE
M33	D5009AMK .500"x2.25"x.870"	ADHESIVE PILE PAD	POLYPROPYLENE
M34	D7509AMK .750"x2.25"x1.93"	ADHESIVE PILE PAD	POLYPROPYLENE
M35	P3802AFK	ADHESIVE PILE PAD	POLYETHYLENE
M36	GTT-15006-HKA-01-TE	PABOSE ROLLER	ZAMAK
M37	SET-018 ES-SGD1010T B01S	SETTING BLOCK FOR FIXED PANEL	SILICONE
M38	-	THERMAL BREAKER	TECATHERM® 66 GF

FL46878.1

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No. 55897
STATE OF FLORIDA
07/03/2024

August 16th, 2024

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027
www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD1010T SLIDING GLASS DOOR-L.M.I.

ES WINDOWS, INC.
10053 NE Quaybridge Ct.
Miami, FL 33138
TEL: (305) 624-7775

Drawn Date: 07/03/2024

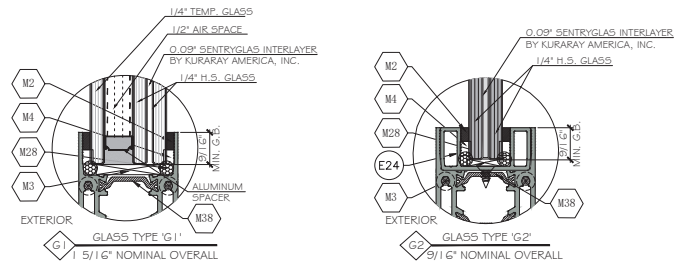
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DRAWING NO: AD24-118

B2

Sheet No: 19 OF 19

E5 WINDOWS
SERIES SGD 1010T SLIDING GLASS DOOR - 4 TRACK
LARGE MISSILE IMPACT



SERIES SGD 1010T SLIDING GLASS DOOR

APPLICABLE EGRESS REQUIREMENTS PER FBC TO BE REVIEWED BY BUILDING OFFICIAL.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

THESE DOORS ARE APPROVED FOR AIR AND WATER INFILTRATION.

DOORS RATED FOR LARGE MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL / METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023) SECTION AS APPLICABLE.

METAL STRUCTURES BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

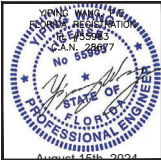
INSTRUCTIONS:
USE CHARTS AS FOLLOWS

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.
- STEP 2** SEE ALLOWABLE CONFIGURATIONS ON SHEETS E1 TO E4. SEE CHARTS ON SHEET E1 TO E3 FOR ALLOWABLE DESIGN LOAD BASED ON DESIRED GLASS TYPE..
- STEP 3** SEE SHEET A1#A2 SELECT ANCHOR OPTION .
- STEP 4** THE LOWEST VALUE RESULTING FROM STEPS 2 THRU 3 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS	
D.O. - DAYLITE OPENING	C. - CENTER LINE
F.H. - FRAME HEIGHT	S.S. - STAINLESS STEEL
F.W. - FRAME WIDTH	H.S. - HEAT STRENGTHENED
L.G. - LONG	SSG - STRUCTURAL SILICONE
STL - STEEL	GLAZED
ALUM. - ALUMINUM	TEMP. - TEMPERED
MULL. - MULLION	O.C. - ON CENTER
HORIZ. - HORIZONTAL	G.D. - GLASS DITE
W/ - WITH	SECTION NUMBER
W/O - WITHOUT	
VERT. - VERTICAL	
T.H. - TRANSOM HEIGHT	
	 SHEET NUMBER

- LIMITATIONS OF USE**
- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT. IN THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
 - CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HEREIN DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
 - THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
 - SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHO SHALL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.
 - THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FL46878.3



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mcy@mcyengineering.com

ES WINDOWS, INC.
10603 NE Quaybridge Ct.
Miami, FL 33198
TEL: (305) 654-7775

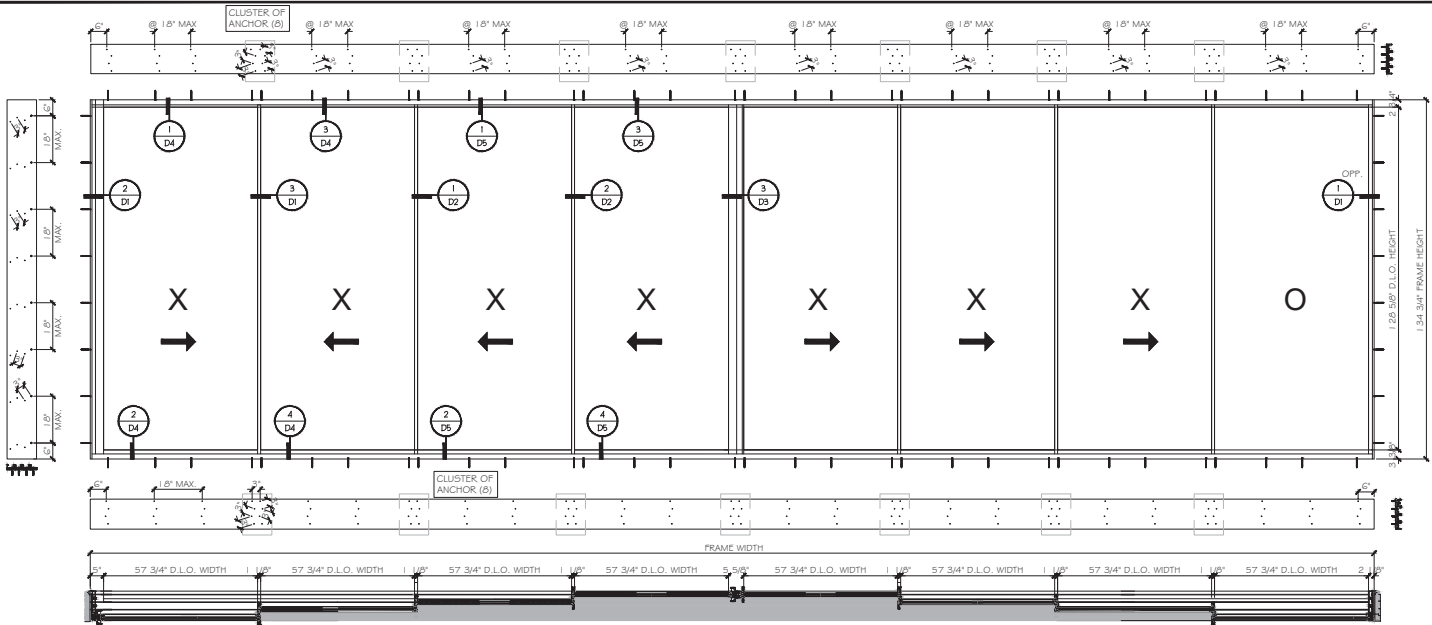
ES SGD1010T SLIDING GLASS DOOR (4 TRACK) - L.M.I.

Drawn	Scale
07/20/2024	AS SHOWN

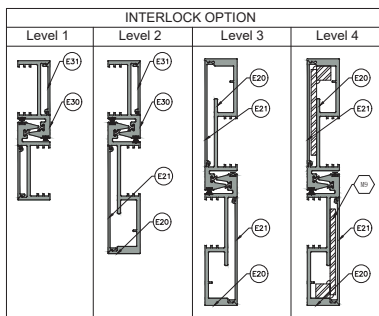
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AD24-22

COVER

Sheet No.
01 OF 23



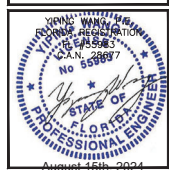
TYPICAL EXTERIOR ELEVATIONS (XXXXXXO) NORMAL SILL
OTHER CONFIGURATION SEE SHEET E4



NORMAL SILL SLIDING DOOR CAPACITY - PSF				
A.P.W. (IN) MAX.	F.H. (IN) MAX.	INTERLOCK	DESIGN LOAD. MAX. FOR WATER RESISTANCE	GLASS
48 11/16	110 11/16	LEVEL 1	+/-45	G1/G2
60 3/4	134 11/16	LEVEL 2	+/-45	G1/G2
60 3/4	134 11/16	LEVEL 3	+/-75	G1/G2
63 5/16	134 1/4	LEVEL 4	+/-75	G1/G2

NOTE
1. A.P.W.: AVERAGE PANEL WIDTH
(FRAME WIDTH/ NUMBER OF PANELS).
2. F.H.: FRAME HEIGHT.

FL46878.3



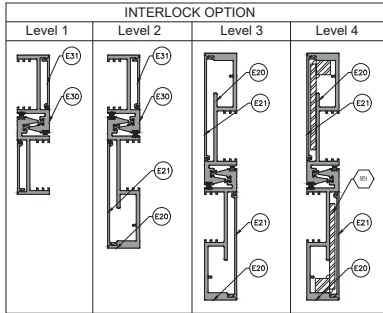
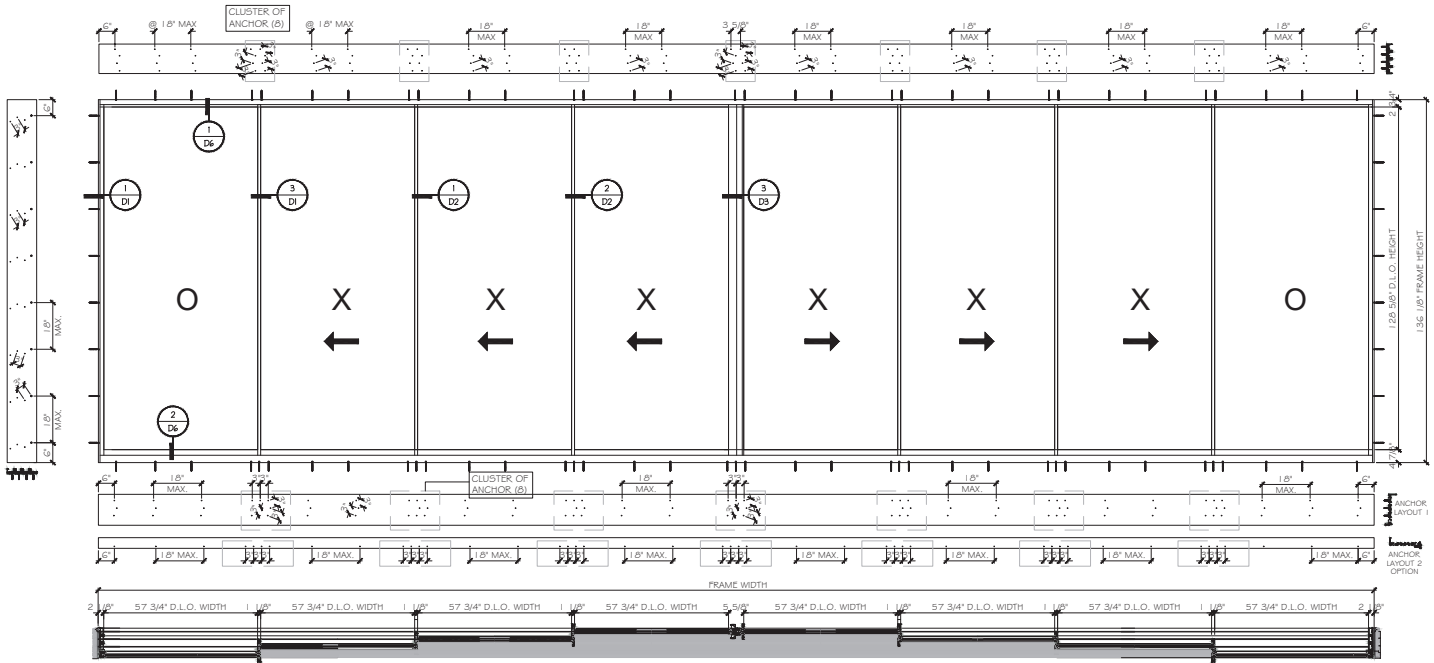
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ES-SGD1010T SLIDING GLASS DOOR (4 TRACK) 1 L.M.I.

Drawn Date: 07/20/2024 Scale: AS SHOWN
Drawing No: AD24-22
Sheet No: E1
August 16th, 2024

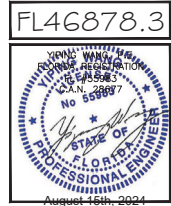
02 OF 23



TYPICAL EXTERIOR ELEVATIONS (OXXXXXXO) GUTTER SILL
OTHER CONFIGURATION SEE SHEET E4

GUTTER SILL SLIDING DOOR CAPACITY - PSF					
A.P.W.(IN) MAX.	F.H.(IN) MAX.	INTERLOCK	DESIGN LOAD. MAX. FOR WATER RESISTANCE	GLASS	
48 11/16	112 1/8	LEVEL 1	+/-45	G1/G2	
60 3/4	136 1/8	LEVEL 2	+/-45	G1/G2	
60 3/4	136 1/8	LEVEL 3	+/-75	G1/G2	
63 5/16	135 11/16	LEVEL 4	+/-75	G1/G2	

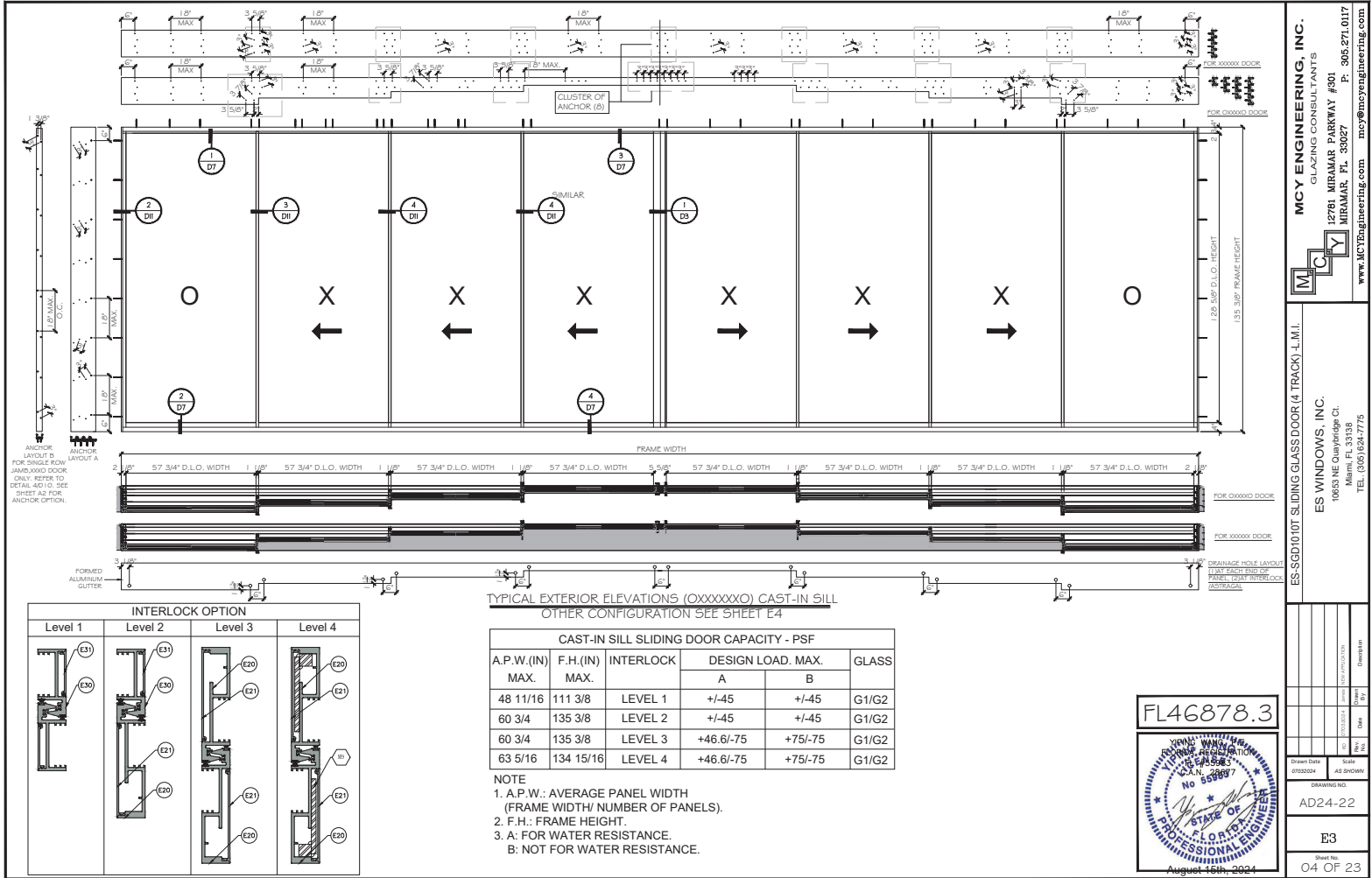
NOTE
1. A.P.W.: AVERAGE PANEL WIDTH
(FRAME WIDTH/ NUMBER OF PANELS).
2. F.H.: FRAME HEIGHT.



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 www.mcyengineering.com mcy@mcyeengineering.com

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 10653 NE Quayridge Ct.
 Miami, FL 33198
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ES-SGD1010T SLIDING GLASS DOOR (4 TRACK) 1 L.M.I.
 Drawing No. AD24-22
 E2
 Sheet No. 03 OF 23



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Miami, FL 33158
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ES-SGD1010T SLIDING GLASS DOOR (4 TRACK) 1 L.M.I.

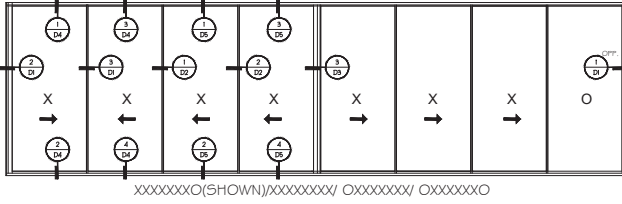
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August 16th, 2024

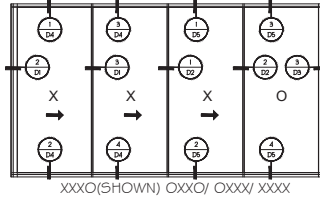
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Scale: AS SHOWN
Drawing No: AD24-22
Sheet No: E3
04 OF 23

APPROVED DOOR CONFIGURATIONS - 4 TRACK DOORS (SEE SHEET E1 FOR APPROVED DOOR SIZE AND INTERLOCK OPTIONS)

NORMAL SILL (MAX. DP: +75/-75 PSF)



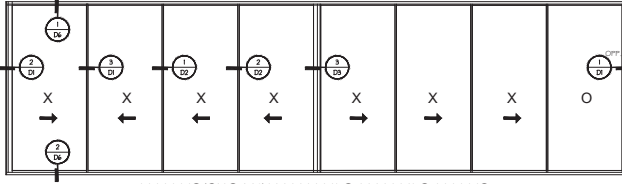
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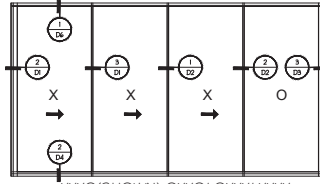
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ANCHOR LAYOUT SEE SHEET E1

GUTTER SILL (MAX. DP: +75/-75 PSF)



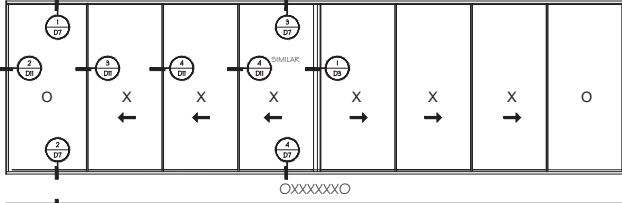
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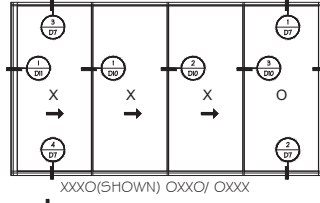
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ANCHOR LAYOUT SEE SHEET E2

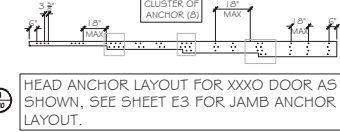
CAST-IN SILL (MAX. DP: +75/-75 PSF)



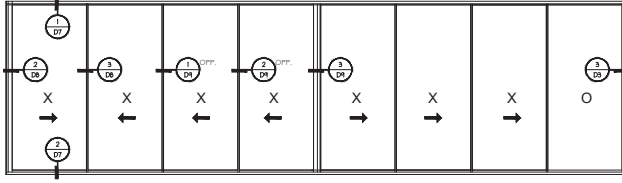
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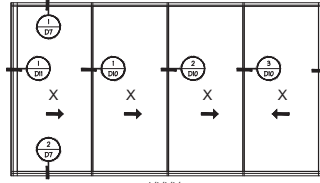
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ANCHOR LAYOUT SEE SHEET E3

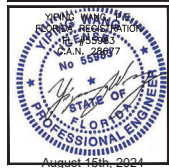


xxxxxxO(SHOWN)/xxxxxx/ Oxxxxxx/



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TYPICAL ANCHOR TYPES:

TYPE "A": 1/4" ULTRA-CON+BY DEWALT (Fu=164 KSI, Fy=148KSI).

1 1/2" MIN. PENETRATION INTO 2X WOOD OR WOOD STRUCTURES OR THRU 1X WOOD BUCK INTO CONCRETE OR BLOCKS.

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

W/ 1-1/4" MIN. EMBED INTO HOLLOW BLOCK(JAMB ONLY)

W/ 1-3/4" MIN. EMBED INTO GROUT FILLED BLOCK(JAMB ONLY)

TYPE "B": 1/4" ULTRA-CON+BY DEWALT (Fu=164 KSI, Fy=148 KSI).

DIRECTLY INTO CONCRETE OR BLOCK

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

W/ 1-1/4" MIN. EMBED INTO HOLLOW BLOCK(JAMB ONLY)

W/ 1-3/4" MIN. EMBED INTO GROUT FILLED BLOCK(JAMB ONLY)

TYPE "C": 1/4" DIA. TEKS/DRILL-FLEX SCREW GRADE 5 (Fu=120 KSI, Fy=92 KSI).

INTO FBC APPROVED MULLION OR METAL STRUCTURE (HEAD/JAMB/SILL)

ALUMINUM: 3/16" THK. MIN. (6063-T5 MIN.)

STEEL: 3/16" THK. MIN. (Fy=33KSI, MIN.)

(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE

STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

MIN. EDGE DISTANCE:

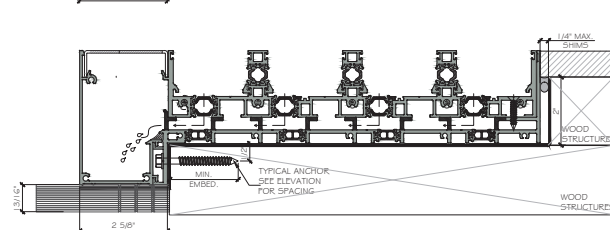
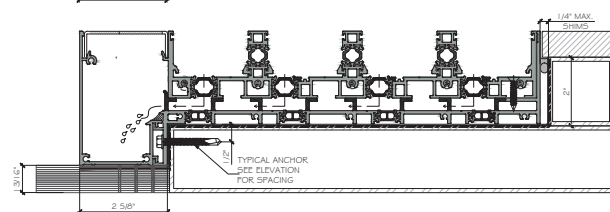
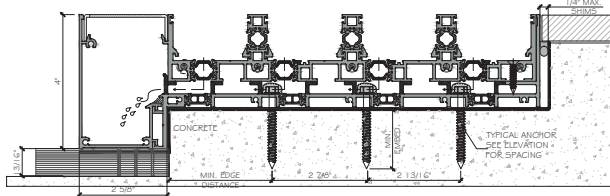
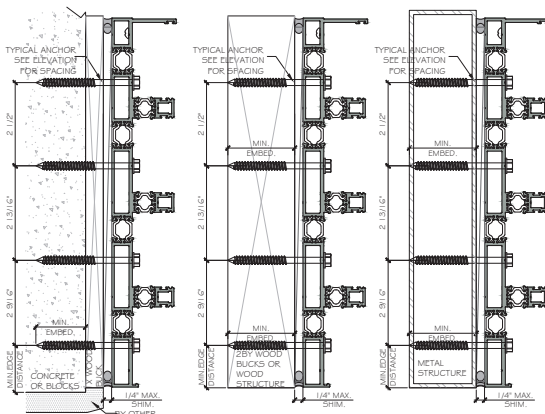
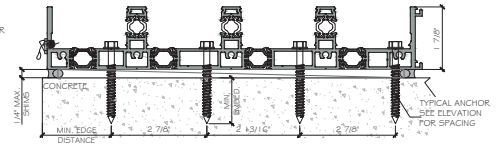
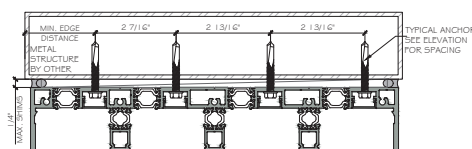
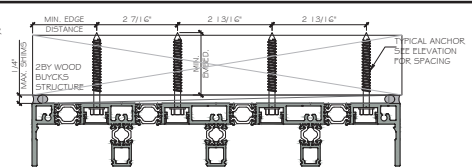
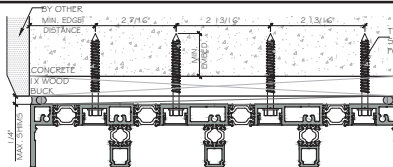
INTO CONCRETE OR MASONRY: 2 1/2" MIN.

INTO WOOD(SG=0.55MIN.) : 1" MIN.

INTO METAL STRUCTURE: 3/4" MIN.

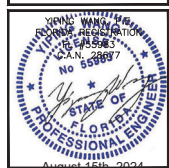
CONCRETE AT HEAD, SILL OR JAMBS F'c=3ksi MIN.

C-90 HOLLOW OR GROUT FILLED BLOCK AT JAMB ONLY F'm=2psi MIN.



NOTE: WOOD BUCKS & METAL STRUCTURES BY OTHERS MUST BE PROPERLY SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURES.

FL46878.3



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ES-1010T SLIDING GLASS DOOR (4 TRACK) L.M.I.

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Miami, FL 33198
TEL: (305) 654-7755

Drawn Date: 07/20/2024

Scale: AS SHOWN

AD24-22

A1

Sheet No. 06 OF 23

TYPICAL ANCHOR TYPES:

TYPE "A": 1/4" ULTRACON+BY DEWALT (Fu=164 KSI, Fy=148KSI).

1 1/2" MIN. PENETRATION INTO 2X WOOD OR WOOD STRUCTURES
OR THRU. 1X WOOD BUCK INTO CONCRETE OR BLOCKS.
W/ 1-3/4"MIN. EMBED INTO CONCRETE (HEAD/JAMB/SILL)
W/ 1-1/4"MIN. EMBED INTO HOLLOW BLOCK(JAMB ONLY)
W/ 1-3/4"MIN. EMBED INTO GROUT FILLED BLOCK(JAMB ONLY)

TYPE "B": 1/4" ULTRACON+BY DEWALT (Fu=164 KSI, Fy=148 KSI).

DIRECTLY INTO CONCRETE OR BLOCK
W/ 1-3/4"MIN. EMBED INTO CONCRETE (HEAD/JAMB/SILL)
W/ 1-1/4"MIN. EMBED INTO HOLLOW BLOCK(JAMB ONLY)
W/ 1-3/4"MIN. EMBED INTO GROUT FILLED BLOCK(JAMB ONLY)

TYPE "C": 1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 (Fu=120 KSI, Fy=92 KSI).

INTO FBC APPROVED MULLION OR METAL STRUCTURE (HEAD/JAMB/SILL)
ALUMINUM: 3/16" THK. MIN. (6063-T5 MIN.)
STEEL: 3/16" THK. MIN. (Fy=33KSI, MIN.)
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE
STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

MIN. EDGE DISTANCE:

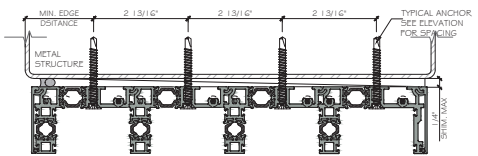
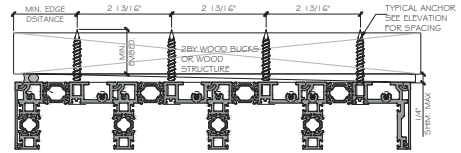
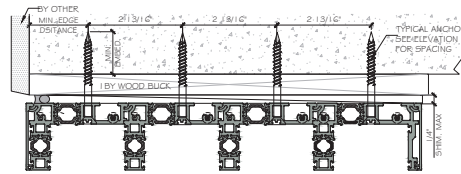
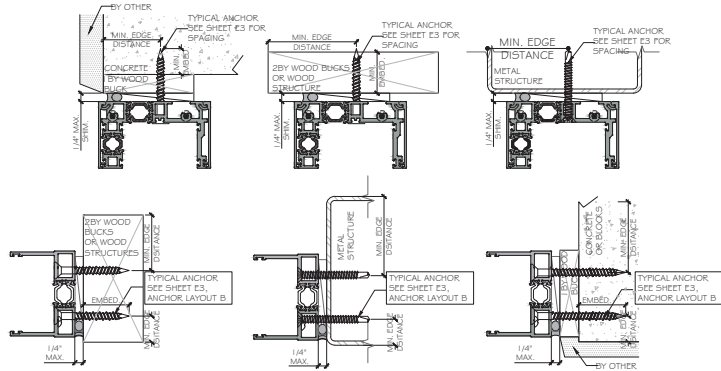
INTO CONCRETE OR MASONRY: 2 1/2" MIN.

INTO WOOD(SG=0.55MIN.) : 1" MIN.

INTO METAL STRUCTURE: 3/4" MIN.

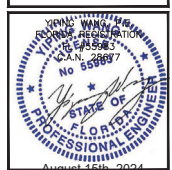
CONCRETE AT HEAD, SILL OR JAMBS f'c=3ksi MIN.

C-90 HOLLOW OR GROUT FILLED BLOCK AT JAMB ONLY f'm=2psi MIN.



NOTE: WOOD BUCKS & METAL STRUCTURES BY OTHERS MUST BE PROPERLY SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURES.

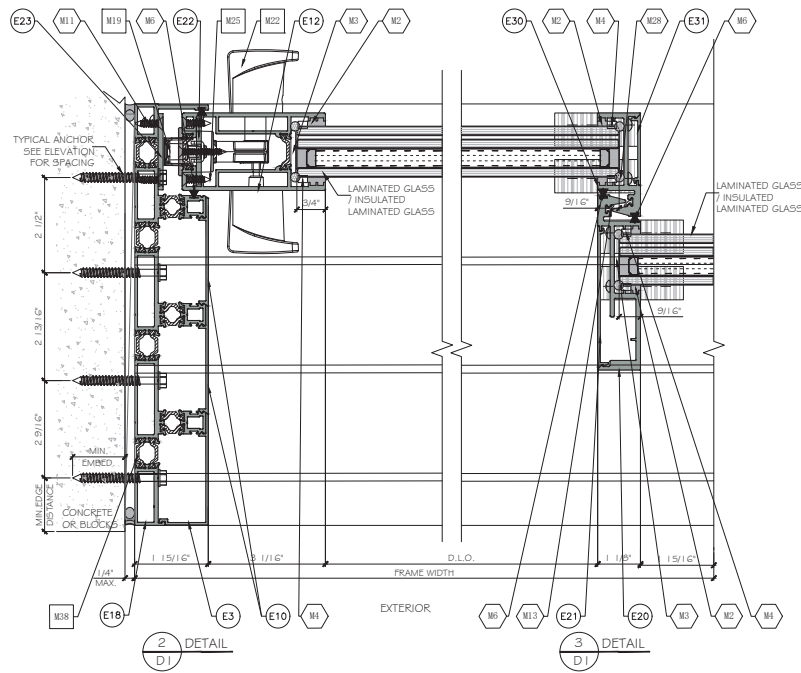
FL46878.3



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Drawn Date	Scale
07/23/2024	AS SHOWN
Drawn By	Checked By
AD24-22	
A2	
Sheet No.	07 OF 23

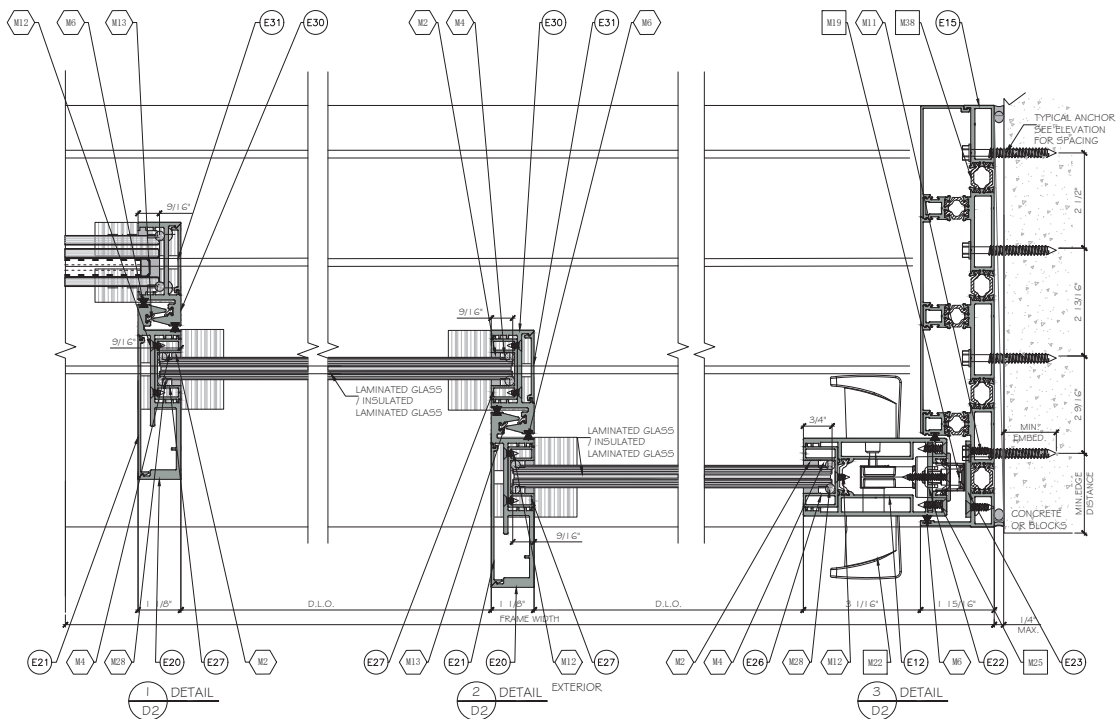


YIPING WANG, P.E.
 FLORIDA REGISTRATION
 No. 555083
 C.A.N. 28687

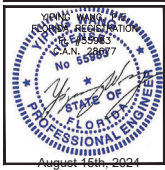
STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

August 15th, 2024

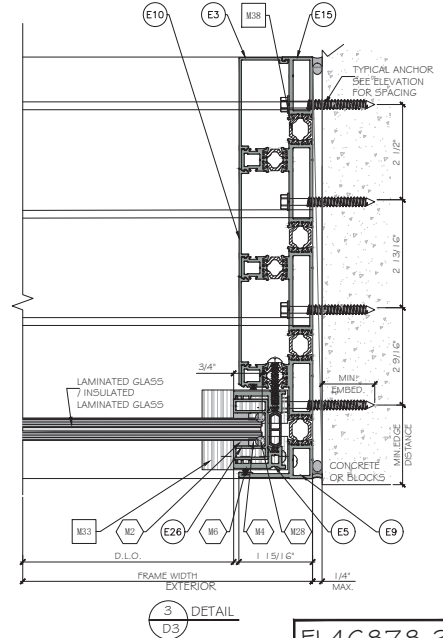
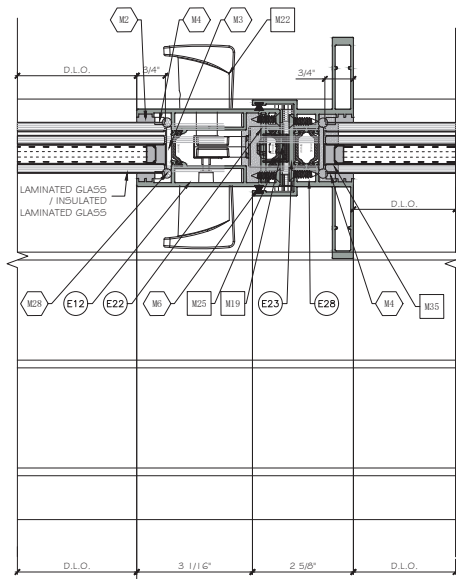
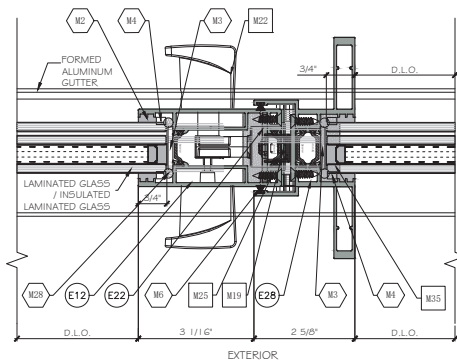
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DRAWING NO. AD24-22	
D1	
Sheet No. 08 OF 23	



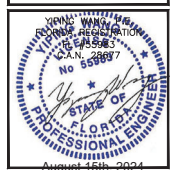
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ES WINDOWS, INC. 10653 NE Quaybridge Ct. Miami, FL 33198 TEL: (305) 654-7775	
ES-SGD1010T SLIDING GLASS DOOR (4 TRACK) - L.M.I.	
Drawn Date: 07/22/2024 Scale: AS SHOWN Drawing No: AD24-22 Sheet No: 09 OF 23	Date: 08/16/2024 By: [Signature] Check: [Signature] Approved: [Signature]



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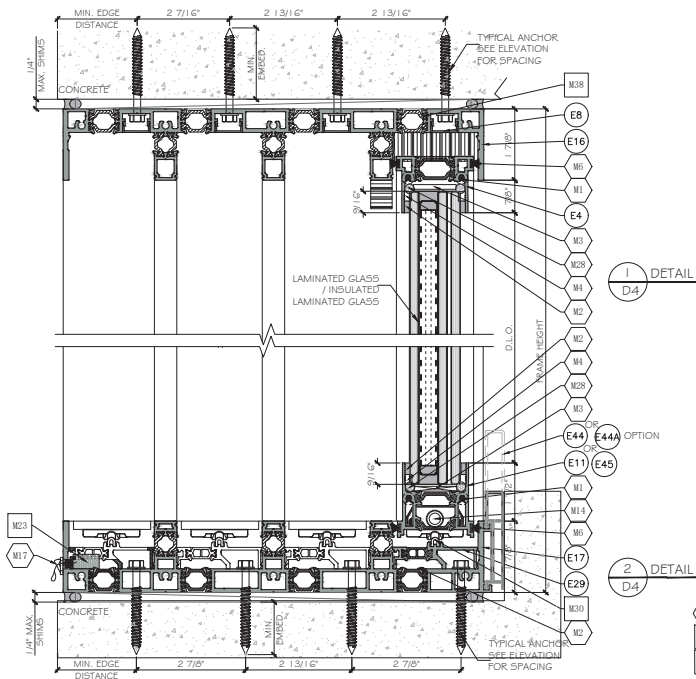
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12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027
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www.mcyengineering.com mcy@mcyeengineering.com

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10653 NE Quaybridge Ct.
Miami, FL 33158
TEL: 305.654.7775

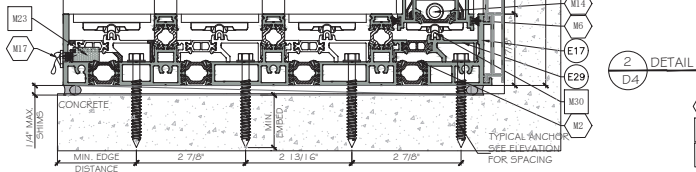
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Revised	By	Date	Description

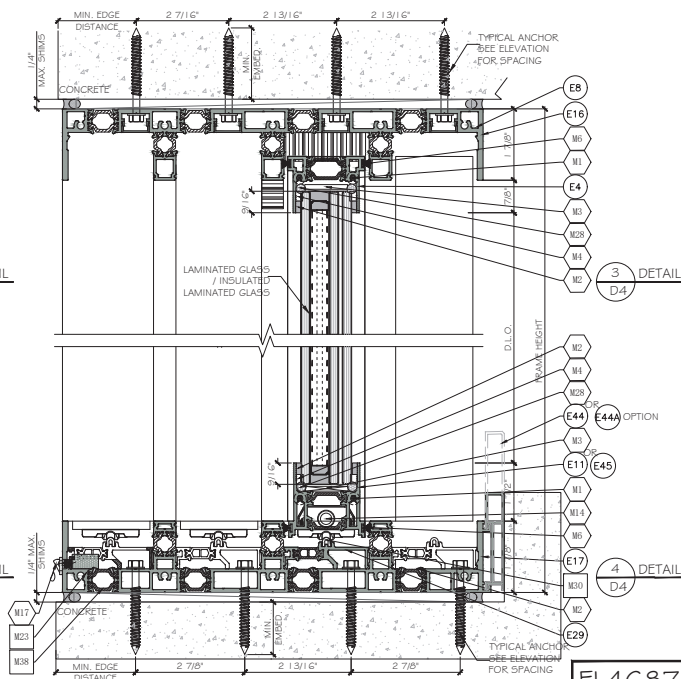
Drawn Date: 07/22/2024 Scale: AS SHOWN
DRAWING NO: AD24-22
D3
Sheet No: 10 OF 23



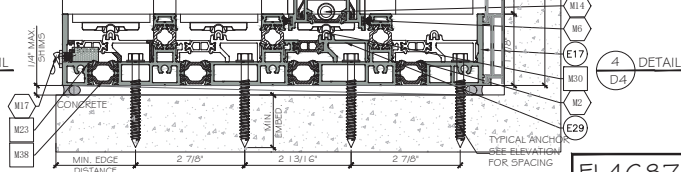
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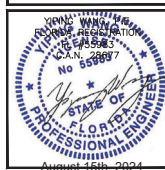


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D4



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D4

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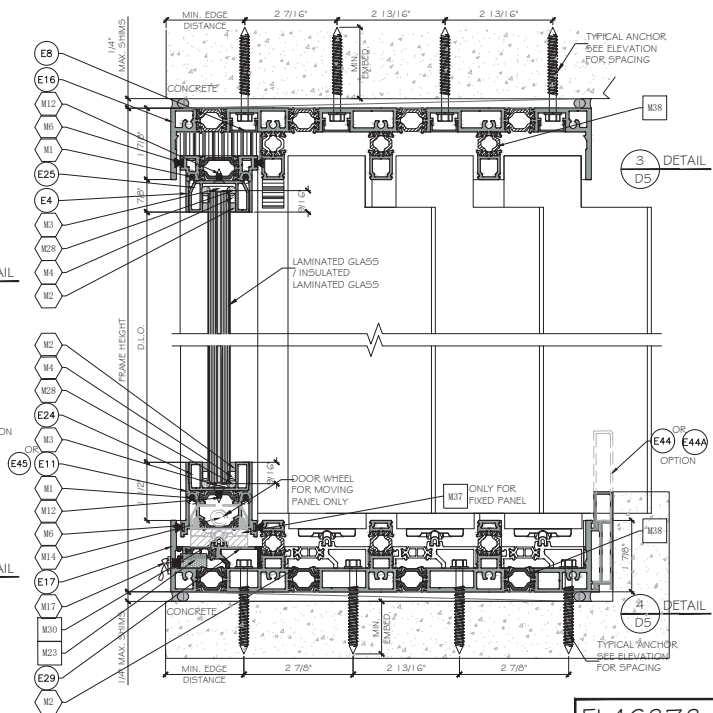
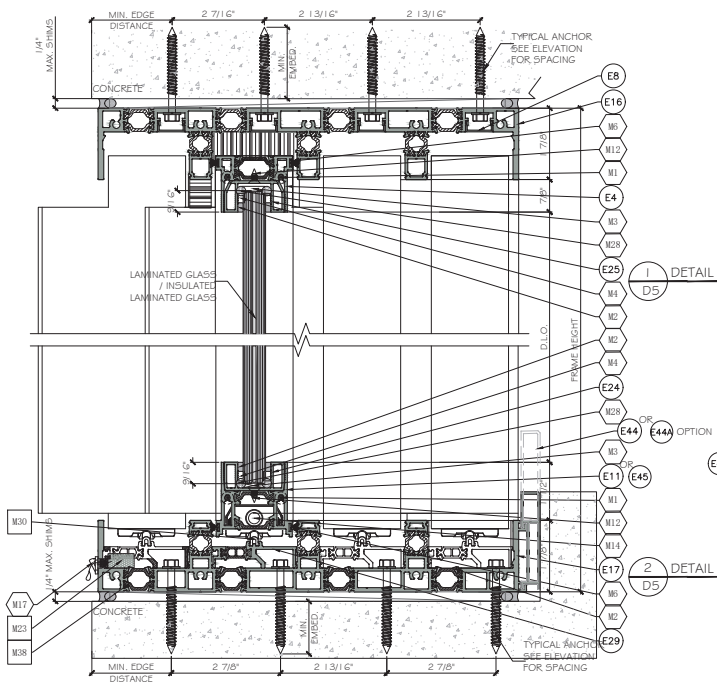
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 10653 NE Quaybridge Ct.
 Miami, FL 33198
 TEL: (305) 624-1775

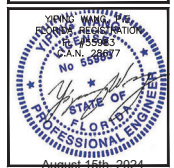
ES-SGD1010T SLIDING GLASS DOOR (4 TRACK) 14 M.I.

Revised	By	Date	Description

Drawing No. AD24-22
 Sheet No. 11 OF 23



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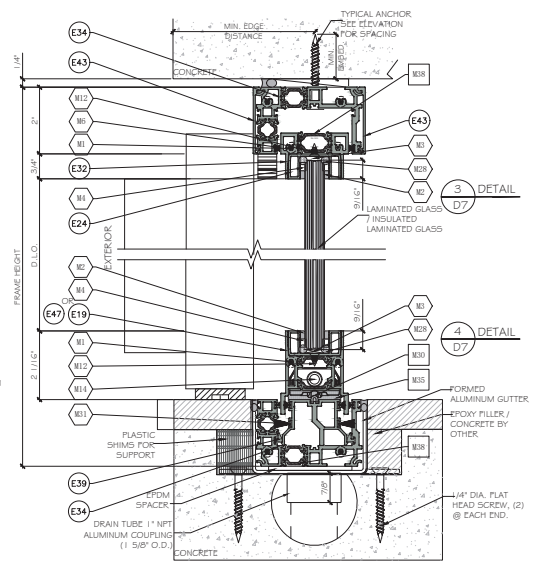
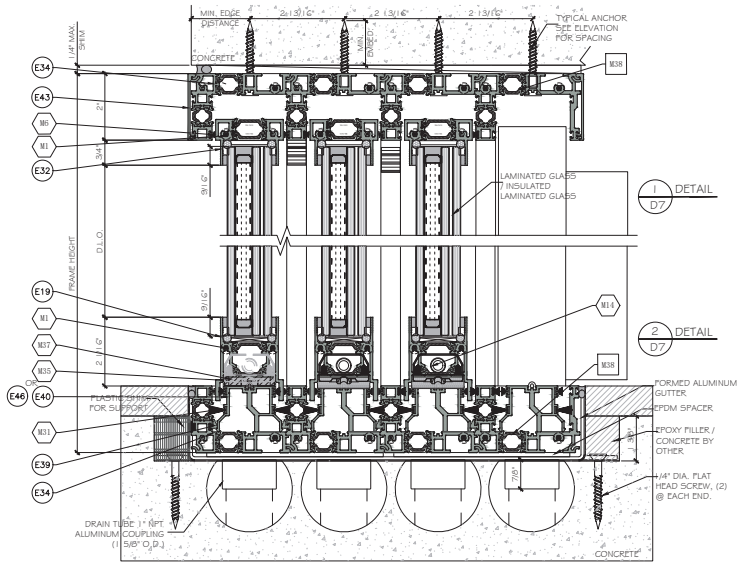


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ES WINDOWS, INC. 10653 NE Quaybridge Ct. Miami, FL 33138 TEL: (305) 654-1775	
ES SGD1010T SLIDING GLASS DOOR (4 TRACK) 1 L.M.I.	
Drawn Date: 07/20/2024 Scale: AS SHOWN Drawing No: AD24-22 Sheet No: 12 OF 23	Date: 08/16/2024 By: [Signature] Check: [Signature]

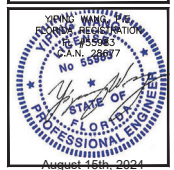


~~August 15th, 2024~~

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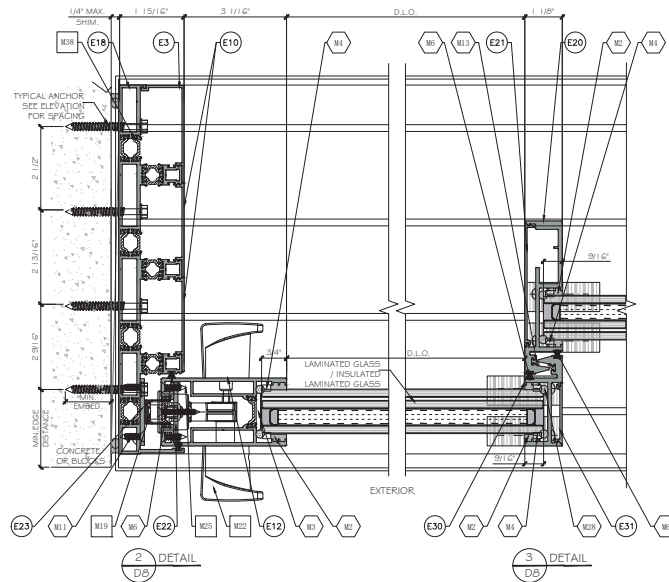
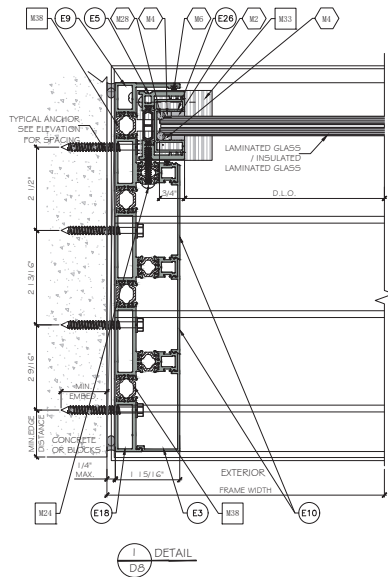


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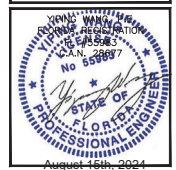
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Rev.	Date	Description
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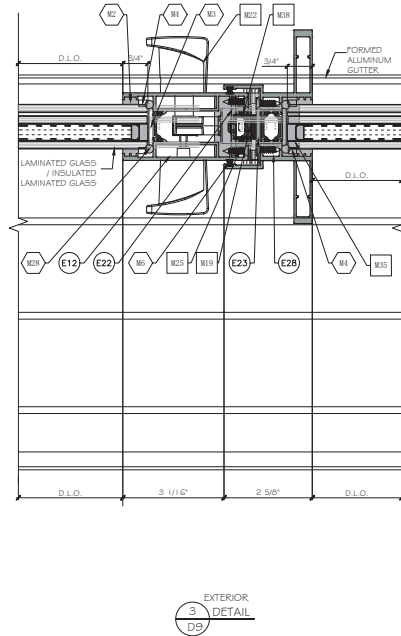
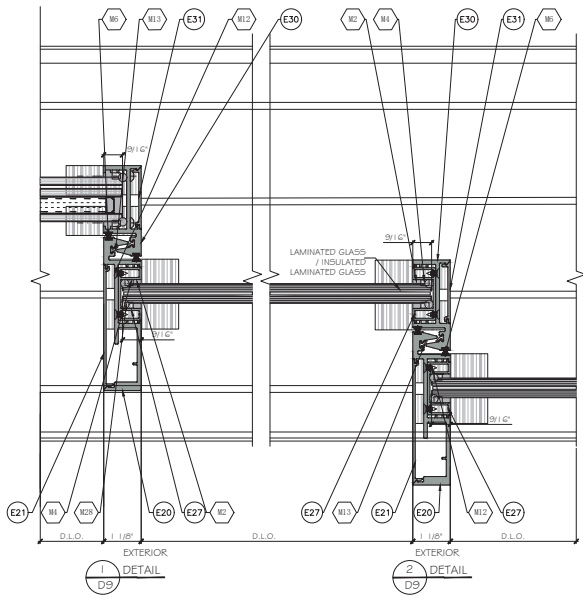
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DRAFTING NO: AD24-22
D7
Sheet No: 14 OF 23



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ES-SGD1010T SLIDING GLASS DOOR (4 TRACK) L.M.I.	
Drawn Date: 07/20/2024 Scale: AS SHOWN Drawing No: AD24-22 Sheet No: D8 15 OF 23	Date: 08/16/2024 Design: [Signature] Check: [Signature] Date: 08/16/2024



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August 16th, 2024

Professional Engineer Seal: State of Florida, No. 55897, August 16th, 2024

ES-SGD1010T SLIDING GLASS DOOR (4 TRACK) - L.M.I.

ES WINDOWS, INC.
10653 NE Quaybridge Ct.
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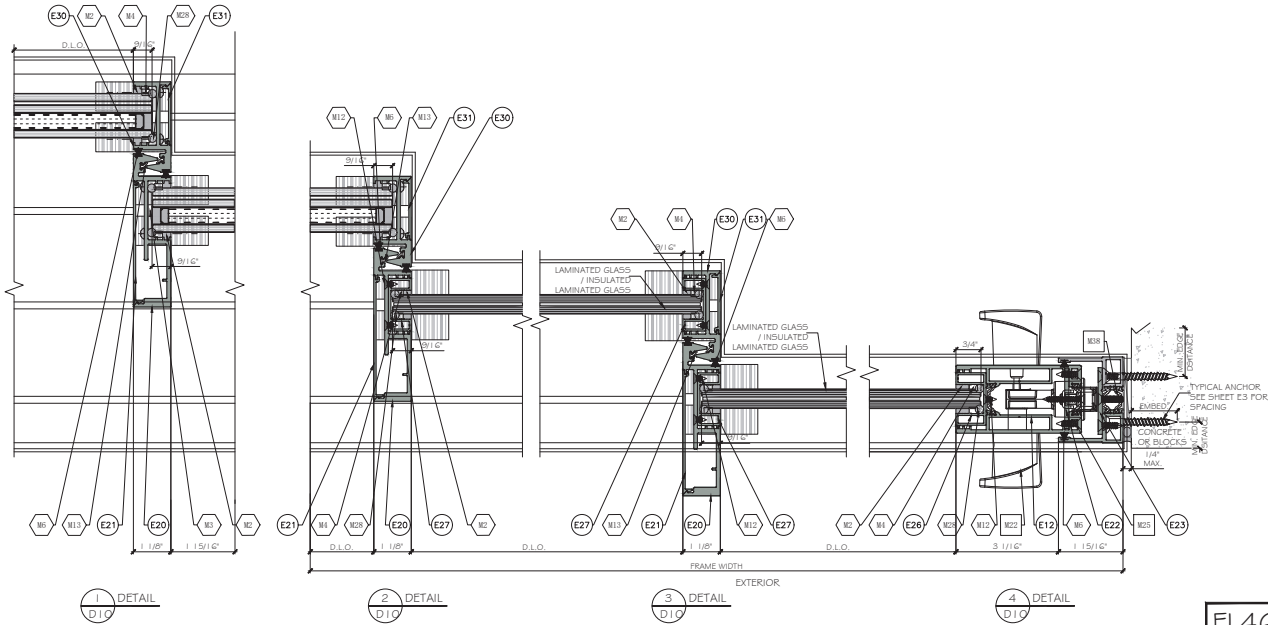
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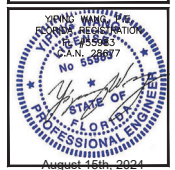
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D9

Sheet No: 16 OF 23



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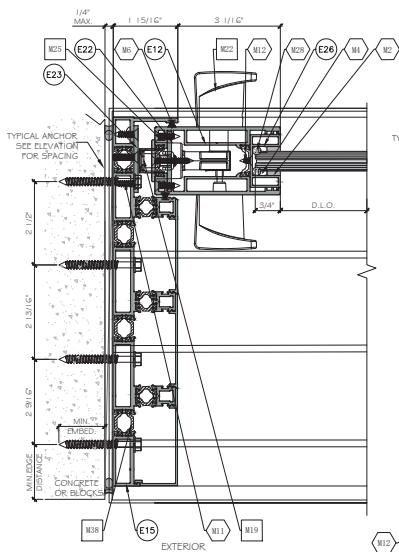


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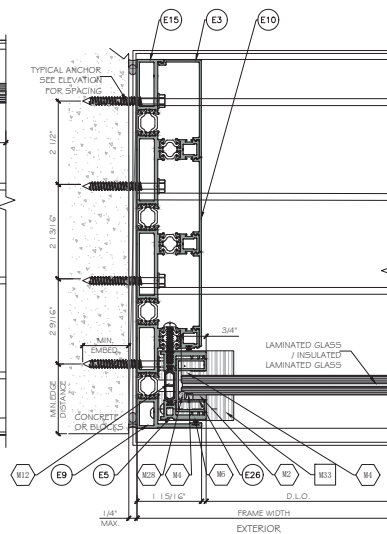
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Rev.	Date	Description

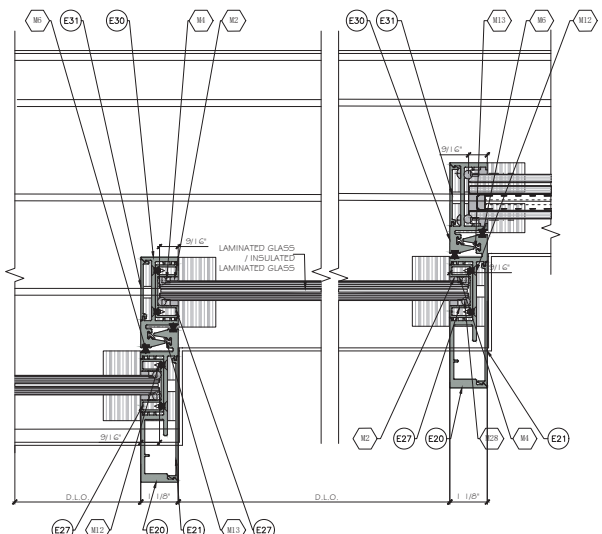
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DRAWING NO: AD24-22
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DETAIL
D11



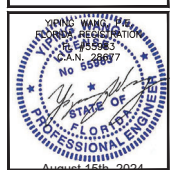
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DETAIL
D11



3
DETAIL
D11

4
DETAIL
D11

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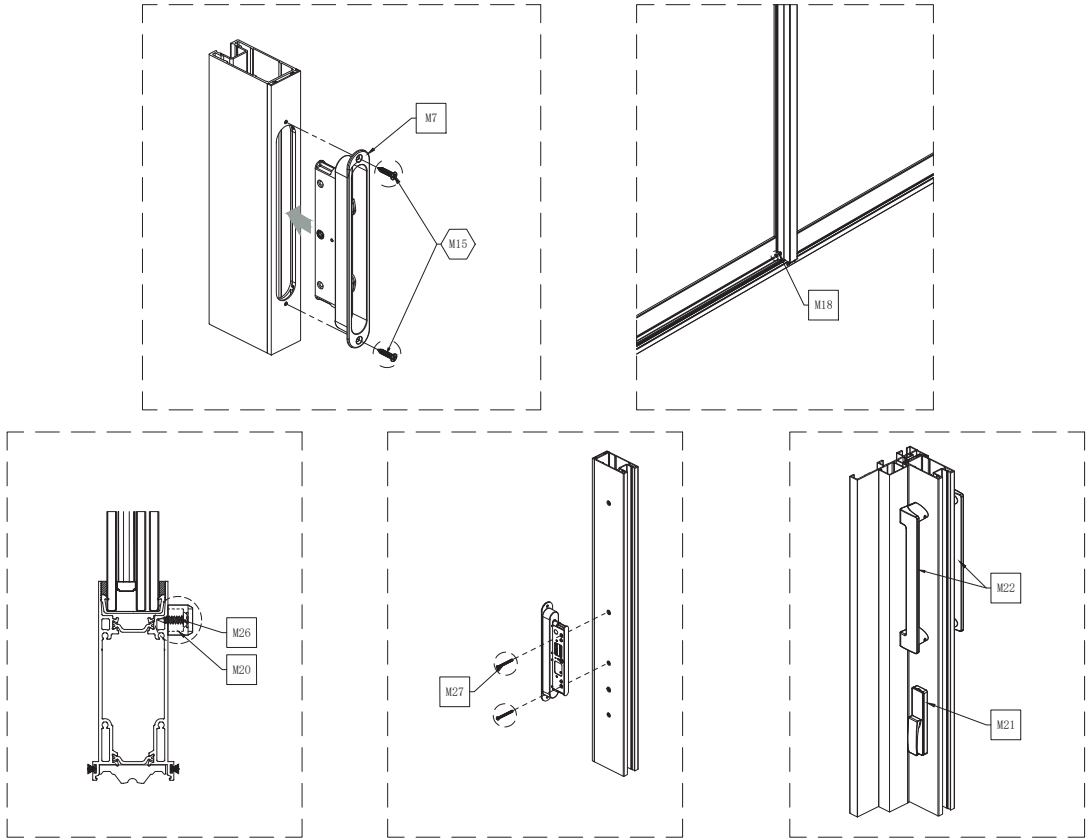


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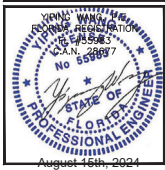
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Rev.	Date	By	Checked

Drawn Date	Scale
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DRAWING NO.	
AD24-22	
D11	
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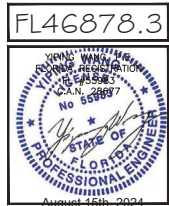
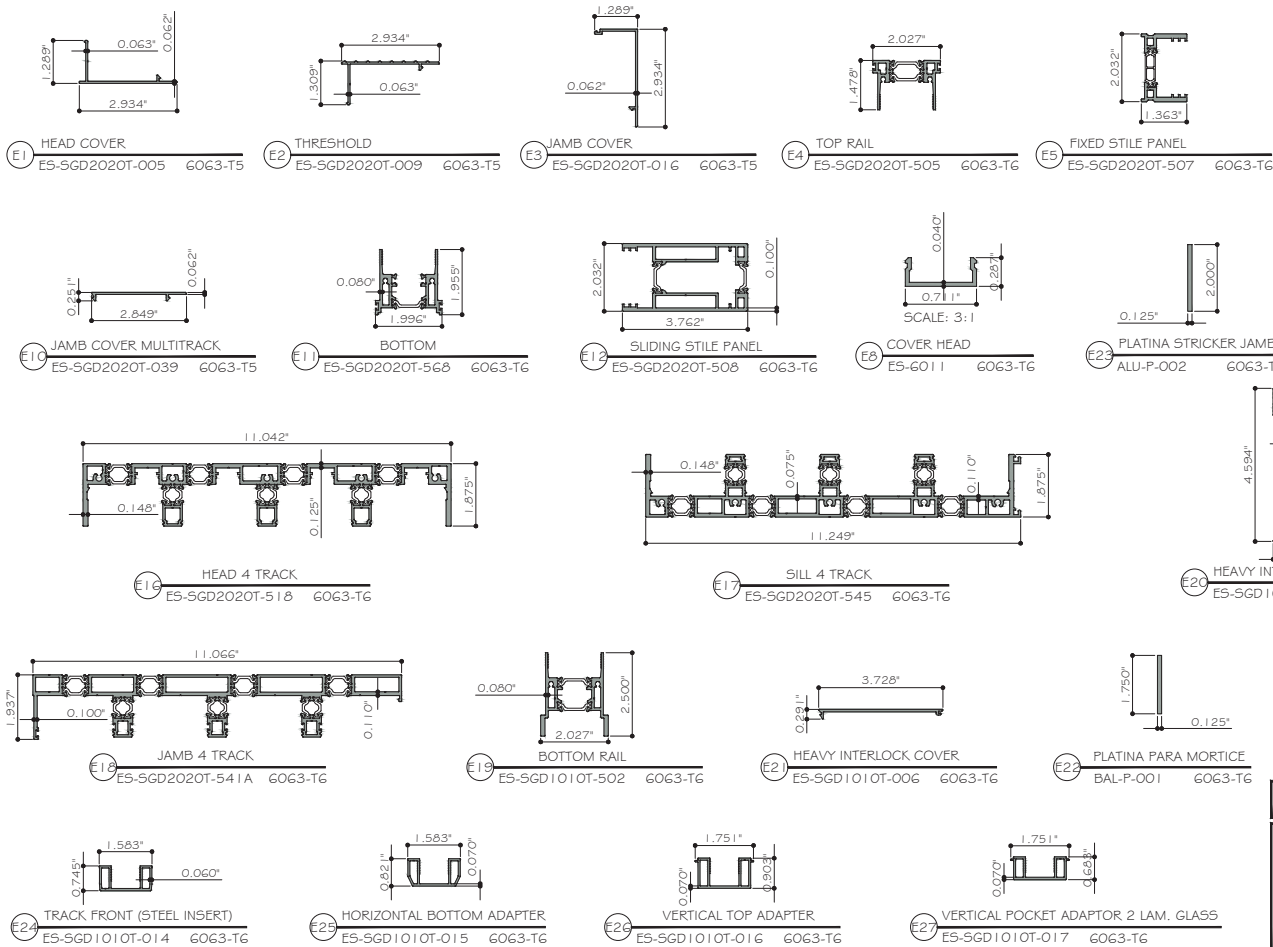


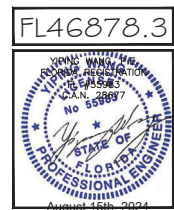
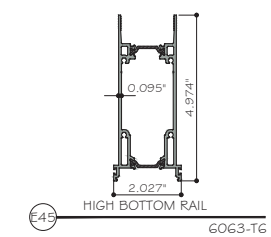
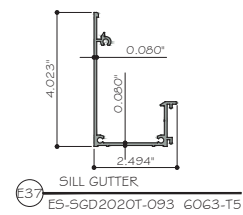
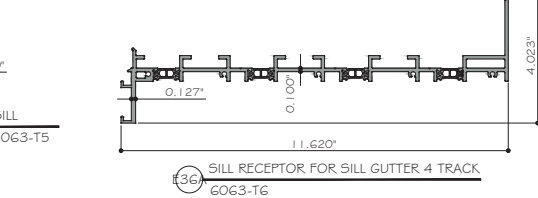
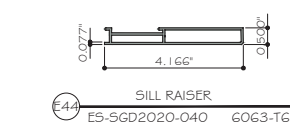
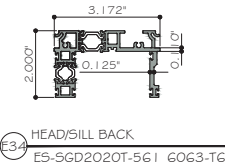
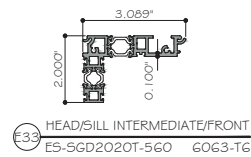
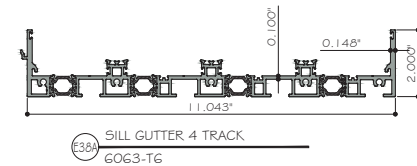
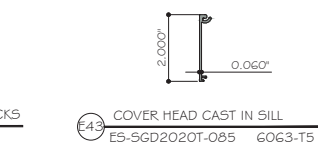
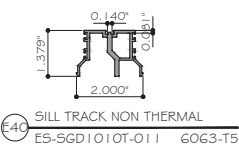
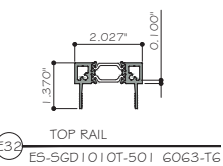
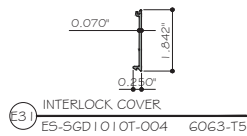
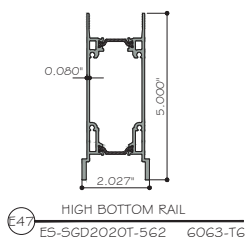
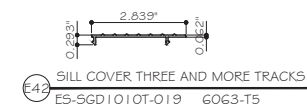
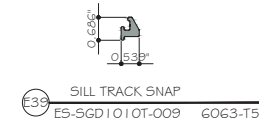
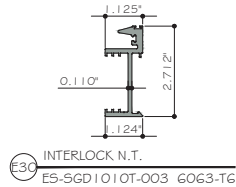
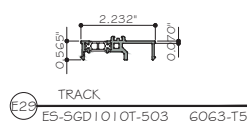
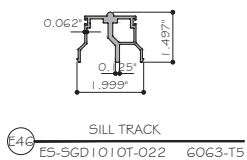
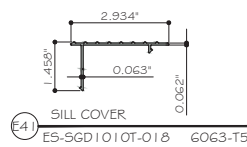
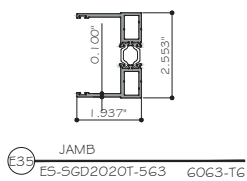
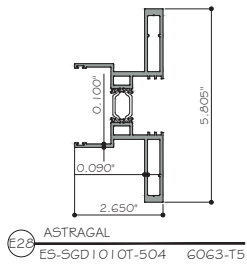
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ES WINDOWS, INC. 10653 NE Quaybridge Ct. Miami, FL 33198 TEL: (305) 654-7775		ES- SGD1010T SLIDING GLASS DOOR (4 TRACK) - L.M.I.	
Drawing No. AD24-22	Scale AS SHOWN	Date 07/23/2024	Drawing by H1
Sheet No. 19 OF 23		August 16th, 2024	

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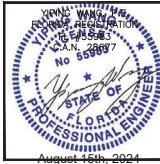




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E1	ES-SGD2020T-005	HEAD COVER	6063-T5
E2	ES-SGD2020T-009	THRESHOLD	6063-T5
E3	ES-SGD2020T-016	JAMB COVER	6063-T5
E4	ES-SGD2020T-505	TOP RAIL	6063-T6
E5	ES-SGD2020T-507	FIXED STILE PANEL	6063-T6
E8	ES-6011	COVER HEAD	6063-T6
E10	ES-SGD2020T-039	JAMB COVER MULTITRACK	6063-T5
E11	ES-SGD2020T-568	BOTTOM	6063-T6
E12	ES-SGD2020T-508	SLIDING STILE PANEL	6063-T6
E16	ES-SGD2020T-518	HEAD 4 TRACK	6063-T6
E17	ES-SGD2020T-545	SILL 4 TRACK	6063-T6
E18	ES-SGD2020T-541A	JAMB 4 TRACK	6063-T6
E19	ES-SGD1010T-502	BOTTOM RAIL	6063-T6
E20	ES-SGD1010T-005	HEAVY INTERLOCK NON THERMAL	6063-T6
E21	ES-SGD1010T-006	HEAVY INTERLOCK COVER	6063-T6
E22	BAL-P-001	PLATINA PARA MORTICE	6063-T6
E23	ALU-P-002	PLATINA STRICKER JAMBA	6063-T5
E24	ES-SGD1010T-014	TRACK FRONT (STEEL INSERT)	6063-T6
E25	ES-SGD1010T-015	HORIZONTAL BOTTOM ADAPTER	6063-T6
E26	ES-SGD1010T-016	VERTICAL TOP ADAPTER	6063-T6
E27	ES-SGD1010T-017	VERTICAL POCKET ADAPTOR 2 LAM. GLASS	6063-T6
E28	ES-SGD1010T-504	ASTRAGAL	6063-T5
E29	ES-SGD1010T-503	TRACK	6063-T5
E30	ES-SGD1010T-003	INTERLOCK N.T.	6063-T6
E31	ES-SGD1010T-004	INTERLOCK COVER	6063-T5
E32	ES-SGD1010T-501	TOP RAIL	6063-T6
E33	ES-SGD2020T-560	HEAD/SILL INTERMEDIATE/FRONT	6063-T6
E34	ES-SGD2020T-561	HEAD/SILL BACK	6063-T6

BILL OF MATERIAL			
CODE	PART	DESCRIPTION	MATERIAL
E35	ES-SGD2020T-563	JAMB	6063-T6
E36A		SILL RECEPTOR FOR SILL GUTTER 4 TRACK	6063-T6
E37	ES-SGD2020T-093	SILL GUTTER	6063-T5
E38A		SILL GUTTER 4 TRACK	6063-T6
E39	ES-SGD1010T-009	SILL TRACK SNAP	6063-T5
E40	ES-SGD1010T-011	SILL TRACK NON THERMAL	6063-T5
E41	ES-SGD1010T-018	SILL COVER	6063-T5
E42	ES-SGD1010T-019	SILL COVER THREE AND MORE TRACKS	6063-T5
E43	ES-SGD2020T-085	COVER HEAD CAST IN SILL	6063-T5
E44	ES-SGD2020-040	SILL RAISER 120 PSF	6063-T6
E45	ES-SGD2020T-562	HIGH BOTTOM RAIL	6063-T6
E46	ES-SGD1010T-022	SILL TRACK	6063-T5
M1	8"x1 1/4" Phil Pan Type A 18-8ss	ASSEMBLY SCREW @ PANEL ASSEMBLY	STAINLESS STEEL
M2	D.S. 983	SILICONE STRUCTURAL	SILICONE
M3	ES-U7530-B01A S	GLAZING GASKET FOR LAMINATED/ INSULATED GLASS	SILICONE 70 SHORE A
M4	ES-7530-B02A S	GLAZING GASKET FOR LAMINATED/ INSULATED GLASS	SILICONE 70 DUREMETER
M5	8"x1/2" Phil Pan Type A 18-8ss	ASSEMBLY SCREW @ JAMB STRIKER	STAINLESS STEEL
M6	W23221NG	WEATHERSTRIPPING PILE	POLYETHYLENE
M7	PS01-0035-00B	2 POINT MORTISE LOCK	ZINC DIE CAST
M8	8"x1 1/4" Phil Flat Type A 18-8ss	ASSEMBLY SCREW @ MORTICE	STAINLESS STEEL
M9	3"x3/16" + 1/2"x1/2"	STEEL REINFORCEMENT	GALVANIZED STAINLESS STEEL
M10	8"x1 1/2" Phil Flat Type A 18-8ss	ASSEMBLY SCREW @ PANEL WITH ASTRAGAL	STAINLESS STEEL
M11	10"x3/4" PHIL FLAT TYPE A 18-8SS	STEEL PLATE ALU-P-002	STAINLESS STEEL
M12	8"x5/8" PHIL FLAT TYPE A 18-8SS	PLATE SUPPORT	STAINLESS STEEL
M13	ES-7530-G06	BULT INTERLOCK	EPDM
M14	PP6677.64 MINIMAL ROLLER 250 Kg	RODAJA	-----
M15	8"x1 1/4" AVELLANADO	TORNILLO PARA MORTICE	AC. INOX.

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ES-SGD1010T SLIDING GLASS DOOR (4 TRACK) - L.M.I.

ES WINDOWS, INC.

10653 NE Quaybridge Ct.

Miami, FL 33138

TEL: (305) 654-7775

Drawn Date: 07/20/2024

Scale: AS SHOWN

Drawn By: [Signature]

Check By: [Signature]

Drawn No: AD24-22

Sheet No: B1

August 16th, 2024

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BILL OF MATERIAL			
CODE	PART	DESCRIPTION	MATERIAL
M16	8"x1/2" Phil Flat self Driller 18-8ss	TORNILLO PARA REFUERZO	STAINLESS STEEL
M17	WA2L-BLK WA2L-SLV WA2L-WHT WA2L-BZE	WEEP COVER BLACK, SILVER, WHITE OR BRONZE	POLYPROPYLENE
M17	WA2L-BLK WA2L-SLV WA2L-WHT WA2L-BZE	WEEP COVER BLACK, SILVER, WHITE OR BRONZE	POLYPROPYLENE
M18	2101 HOLE PLUG	HOLE COVER 1/2"	SILICONE
M19	PS01-1005-00B	2 POINT LOCK STRIKER 1.35" TO 1.45" @ FRAME JAMB	STAINLESS STEEL
M20	BASE & SNAP-FIT	BUMPER BASE & SNAP-FIT CAP BLACK, WHIT & GREY	NYLON 6
M21	PS01-0203-000 WHT	CREST TURN LEVER	ZAMAK
M22	PS01-0208-000 WHT PS01-0208-115 BRZ PS01-0208-117 SILV PS01-0208-00B BLK	CREST HANDLE INT-EXT	ZAMAK
M23	ES-W625-F01	RETICULATED FOAM 30PPI 3/8" x 11/16" x 2"	OPEN CELL FOAM
M24	TOR 10x1 1/4 Phil Pan Type A 18-8ss	ASSEMBLY SCREW @ FIXED PANEL	STAINLESS STEEL
M25	TOR 10-24*3/4 avellanado ac inox	ASSEMBLY SCREW @ CLOSED IN JAMB	STAINLESS STEEL
M26	TOR 10x1 Phil Pan Type A 18-8ss	FOR BUMPER	STAINLESS STEEL
M27	TOR M4x0.7x40mm Phil Flat Screw 18-8ss	-----	STAINLESS STEEL
M28	BACKER ROD 1/4" NEGRO	FOR GLAZING GASKET	-----
M29	TOR 10x1" F.H.	FOR SILLAR SAVE	STAINLESS STEEL
M30	A2016.52 Guia SS LONG : 117.39"	FOR SILL TRACK	GALVANIZED STAINLESS STEEL
M31	W33591NK	WEATHERSTRIPPING	POLYPROPYLENE
M32	D4304AMK .430"x1.00"x.370"	ADHESIVE PILE PAD	POLYPROPYLENE
M33	D5009AMK .500"x2.25"x.870"	ADHESIVE PILE PAD	POLYPROPYLENE
M34	D7509AMK .750"x2.25"x1.93"	ADHESIVE PILE PAD	POLYPROPYLENE
M35	P3802AFK	ADHESIVE PILE PAD	POLYETHYLENE
M36	GTT-15006-HKA-01-TE	PABOSE ROLLER	ZAMAK
M37	SET-018 ES-SGD1010T B01S	SETTING BLOCK FOR FIXED PANEL	SILICONE
M38	-	THERMAL BREAKER	TECATHERM® 66 GF

FL46878.3



MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027
www.MCYEngineering.com mcy@mcyengineering.com

ES-WINDOWS, INC.
10653 NE Quaybridge Ct.
Miami, FL 33158
TEL: (305) 654-7775

ES-SGD1010T SLIDING GLASS DOOR (4 TRACK) - L.M.I.

Drawn Date: 07/02/2024 Scale: AS SHOWN
DESIGNING NO: AD24-22
Sheet No: B2
August 16th, 2024 23 OF 23

FLORIDA DEPARTMENT OF

Business & Professional Regulation

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Product Approval

USER: Public User

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OFFICE OF THE SECRETARY

FL #

Application Type

Code Version

Application Status

Comments

Archived

Product Manufacturer

Address/Phone/Email

Authorized Signature

Technical Representative

Address/Phone/Email

Quality Assurance Representative

Address/Phone/Email

Category

Subcategory

Compliance Method

Florida Engineer or Architect Name who developed the Evaluation Report

Florida License

Quality Assurance Entity

Quality Assurance Contract Expiration Date

Validated By

Certificate of Independence

Referenced Standard and Year (of Standard)

Equivalence of Product Standards

Certified By

Sections from the Code

FL21461-R6

Revision

2023

Approved

E.S. Windows, Inc.

10653 NE Quaybridge Ct.

Miami, FL 33138

(305) 638-5151

ssabagh@energiasolarsa.com

Jalal Farooq

veronica@afceng.com

Samir Sabagh

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Miami, FL 33142

(305) 638-5151

ssabagh@energiasolarsa.com

Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer

Evaluation Report - Hardcopy Received

Jalal Farooq

PE-81223

Keystone Certifications, Inc.

03/21/2035

Abel Carrasco, PE

Validation Checklist - Hardcopy Received

[FL21461_R6_COI_SS - Certificate of Independence 2023.pdf](#)

Standard	Year
TAS 201	1994
TAS 202	1994
TAS 203	1994

Product Approval Method

Method 1 Option D

Date Submitted 10/23/2023
 Date Validated 10/23/2023
 Date Pending FBC Approval 11/01/2023
 Date Approved 12/13/2023
 Date Revised 04/25/2025

Summary of Products

FL #	Model, Number or Name	Description
21461.1	Series ES-EL150 Aluminum Fixed Window	Large missile impact resistant aluminum fixed window.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +80/-105 Other: See drawing W16-76 for span vs. load combinations and installation details.		Installation Instructions FL21461 R6 II SS - ES-EL150 Alum FW (LMI) - DWG W16-76 (2023) R1.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL21461 R6 AE SS - ES-EL150 Alum FW (LMI)-PAE 2023 R1.pdf Created by Independent Third Party: Yes
21461.2	Series ES-EL150 Aluminum Fixed Window	Non-impact resistant aluminum fixed window.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +80/-100 Other: See drawing 20-61F for span vs. load combinations and installation details		Installation Instructions FL21461 R6 II SS - ES-EL150 Alum FW (NI)-DWG 20-61F 2023.1.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL21461 R6 AE SS - ES-EL150 Alum FW (NI)-PAE 2023.1.pdf Created by Independent Third Party: Yes
21461.3	Series ES-EL150-HP Aluminum Fixed Window	Large missile impact resistant aluminum fixed window.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +100/-140 Other: See drawing 23-53F for span vs. load combinations and installation details		Installation Instructions FL21461 R6 II SS - ES-EL150-HP Alum FW (LMI) - DWG 23-53F 2023.pdf Verified By: Jalal Farooq PE 81223 Created by Independent Third Party: Yes Evaluation Reports FL21461 R6 AE SS - ES-EL150-HP Alum FW (LMI)-PAE 2023.pdf Created by Independent Third Party: Yes

[Back](#)[Next](#)

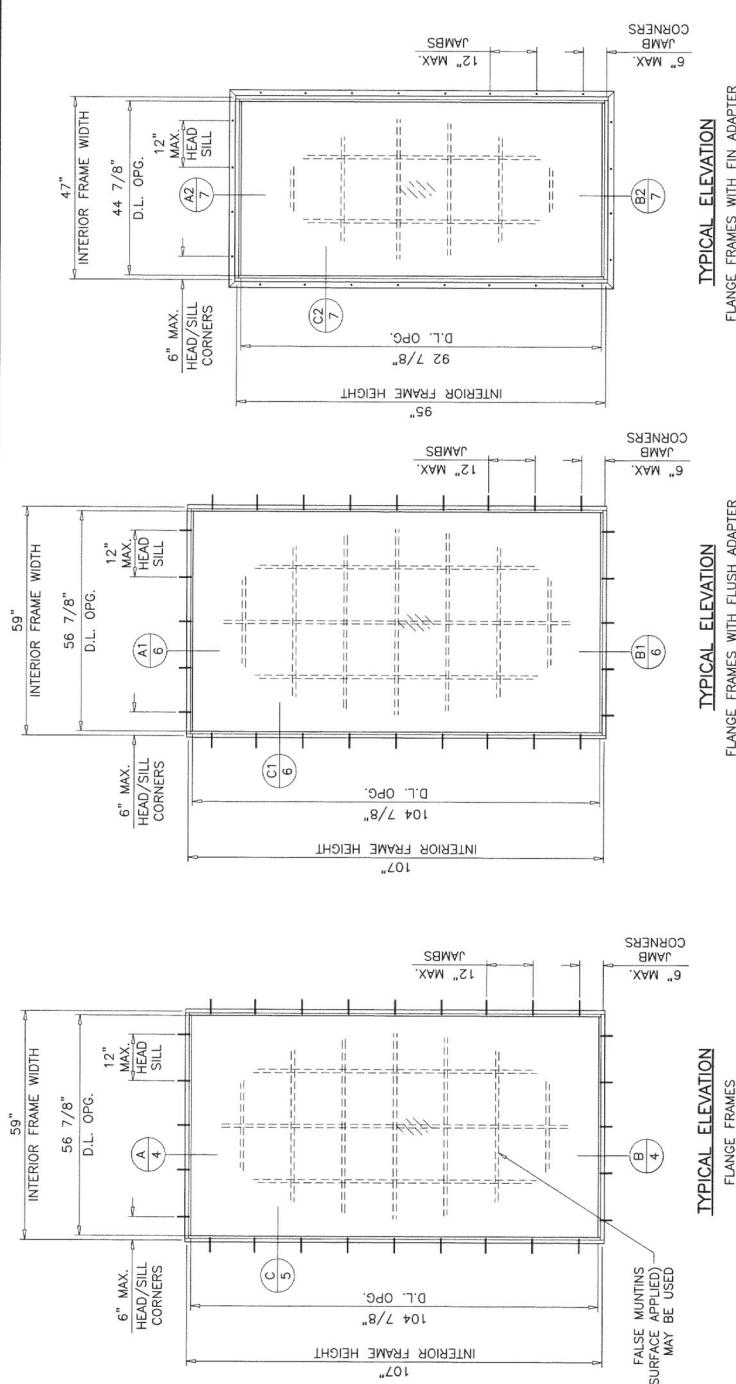
[Contact Us](#) :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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Product Approval Accepts:





ALUMINUM WINDOW RATINGS FOR THESE WINDOWS TO BE AS PER WINDOW ON SHEETS 3 AND 3.1. APPLIES TO SINGLE UNITS OR SIDE BY SIDE S OF FIX./FIX. OR FIXED WITH OTHER S IN MODULES OF TWO OR MORE WINDOWS USING FIXED MULLIONS IN BETWEEN. PRESSURE FROM WINDOWS OR MULLION WILL APPLY TO ENTIRE SYSTEM.	THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH 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 2020/2023 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)'. MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.
--	--

GLASS TYPES 'A', 'A+', 'B', 'D' & 'E' ONLY

DAYLITE OPENINGS:
D.L.O. HEIGHT = WINDOW HEIGHT - 3.125"
D.L.O. WIDTH = WINDOW WIDTH - 3.125"

WINDOWS WITH GLASS TYPES 'AA', 'BB' & 'AAI' COMPLY
WITH REQUIREMENTS OF ANSI Z97.1.

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

FL #21461

Sealed: 10/23/2023

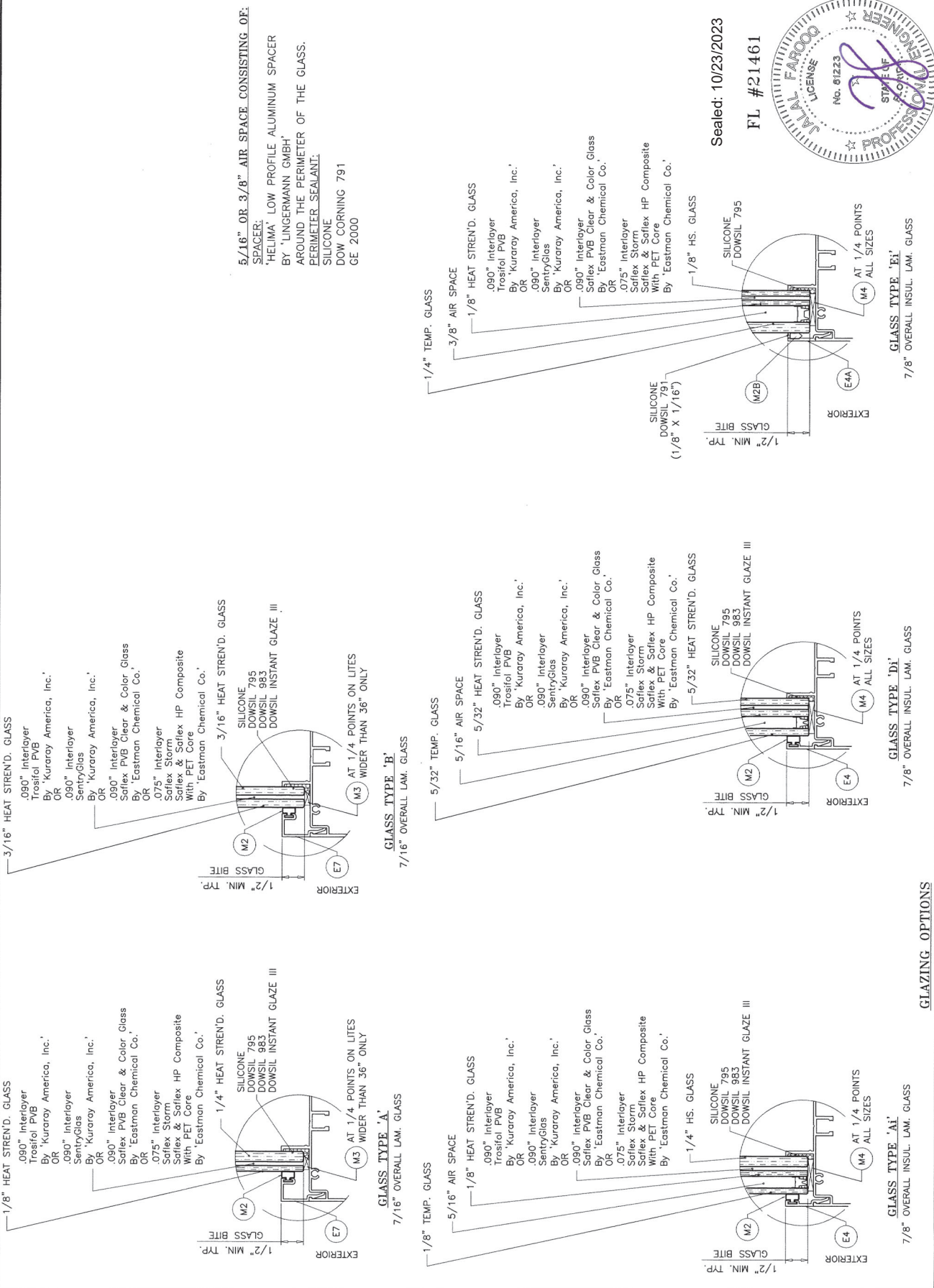


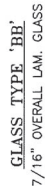
A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND
INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION
ON PROVIDED HEZ/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED
IN THIS DOCUMENT.

B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF
ALTERED BY ANY MEANS.

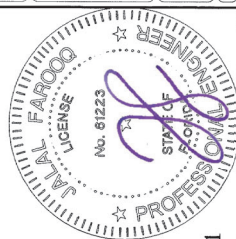
C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED
ENGINEER OR ARCHITECT WHICH WILL RECORD THE ENGINEER OF RECORD (E.O.R.)
FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER
USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED
ENGINEER. ALL PROJECTS SHALL SUBMIT TO THIS LATTER THE SITE
SPECIFIC DRAWINGS FOR REVIEW.

D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF
THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.





3/8" AIR SPACE CONSISTING OF:
SPACER:
"HELINA" LOW PROFILE ALUMINUM SPACER
BY "LINGERMANN GMBH"
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOW CORNING 791
GE 2000



Sealed: 10/23/2023

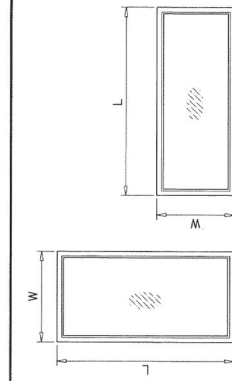
FL #21461

GLAZING OPTIONS

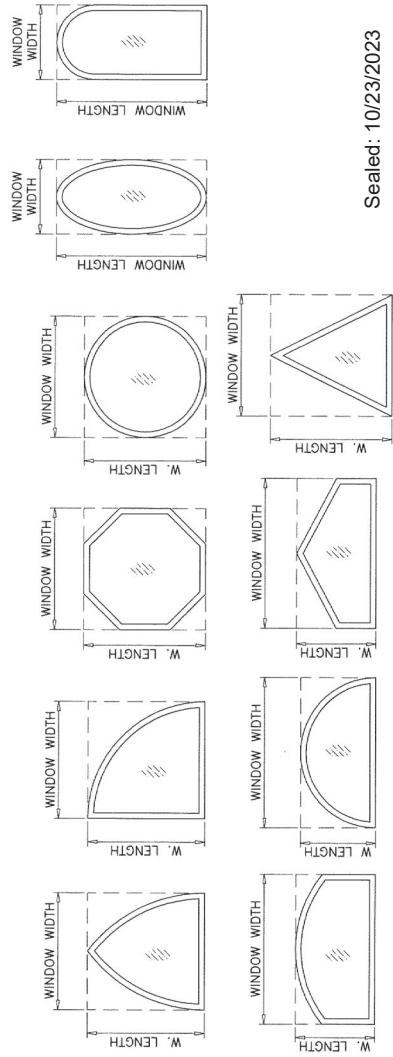
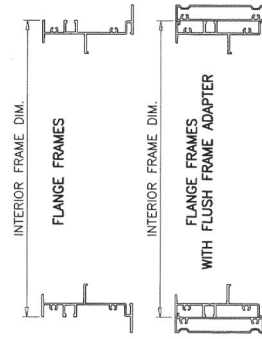
DESIGN LOAD CAPACITY - PSF FLANGE FRAMES & FLUSH FRAMES ONLY				
INTERIOR FRAME DIMS.		GLASS TYPES 'AA' & 'AAI'		GLASS TYPE 'BB'
WIDTH	HEIGHT	EXT.(+)	INT.(-)	INT.(-)
47"	47"	80.0	105.0	80.0
53"		80.0	105.0	80.0
59"		80.0	105.0	80.0
65"		80.0	105.0	80.0
71"	53"	80.0	105.0	80.0
77"		80.0	105.0	80.0
47"		71.1	93.3	80.0
53"		71.1	93.3	88.9
59"	59"	71.1	93.3	80.0
65"		71.1	93.3	88.9
71"		—	—	80.0
77"		—	—	88.9
47"	77"	80.0	105.0	80.0
53"		71.1	93.3	88.9
59"		64.0	84.0	80.0
65"		—	—	80.0
71"	65"	—	—	80.0
77"		—	—	80.0
47"		80.0	105.0	80.0
53"		71.1	93.3	88.9
59"	71"	—	—	80.0
65"		—	—	80.0
71"		—	—	72.7
77"		—	—	72.7
47"	77"	80.0	105.0	80.0
53"		—	—	80.0
59"		—	—	80.0
65"		—	—	72.7
71"	83"	—	—	72.7
77"		—	—	66.7
47"		80.0	105.0	80.0
53"		—	—	80.0
59"	77"	—	—	80.0
65"		—	—	72.7
71"		—	—	66.7
77"		—	—	61.5
47"	89"	80.0	105.0	80.0
53"		—	—	80.0
59"		—	—	80.0
65"		—	—	72.7
71"	95"	—	—	66.7
77"		80.0	105.0	80.0
47"		—	—	80.0
53"		—	—	80.0
59"	65"	—	—	80.0
65"		—	—	72.7

DESIGN LOAD CAPACITY - PSF FLANGE FRAMES & FLUSH FRAMES ONLY				
INTERIOR FRAME DIMS.		GLASS TYPES 'AA' & 'AAI'		GLASS TYPE 'BB'
WIDTH	HEIGHT	EXT.(+)	INT.(-)	INT.(-)
35"	101"	80.0	105.0	80.0
41"		—	—	80.0
47"		—	—	80.0
53"		—	—	80.0
59"	107"	80.0	105.0	80.0
65"		—	—	80.0
71"		—	—	80.0
77"		—	—	80.0
47"	113"	80.0	105.0	80.0
53"		—	—	80.0
59"		—	—	80.0
65"		—	—	80.0
71"	119"	80.0	105.0	80.0
77"		—	—	80.0
47"		80.0	105.0	80.0
53"		—	—	80.0
59"	125"	80.0	105.0	80.0
65"		—	—	80.0
71"		—	—	80.0
77"		—	—	80.0
47"	131"	80.0	105.0	80.0
53"		—	—	80.0
59"		—	—	80.0
65"		—	—	80.0
71"	137"	80.0	105.0	80.0
77"		—	—	80.0
47"		80.0	105.0	80.0
53"		—	—	80.0
59"	143"	80.0	105.0	80.0
65"		—	—	80.0
71"		—	—	80.0
77"		—	—	80.0

DESIGN LOAD CAPACITY - PSF FLANGE FRAMES & FLUSH FRAMES ONLY				
INTERIOR FRAME DIMS.		GLASS TYPES 'AA' & 'AAI'		GLASS TYPE 'BB'
WIDTH	HEIGHT	EXT.(+)	INT.(-)	INT.(-)
18-1/8"	25"	80.0	105.0	80.0
25-1/2"		80.0	105.0	80.0
36"		80.0	105.0	80.0
47"		80.0	105.0	80.0
52-1/8"	37-3/8"	80.0	105.0	80.0
18-1/8"		80.0	105.0	80.0
25-1/2"		80.0	105.0	80.0
36"		80.0	105.0	80.0
47"	49-5/8"	80.0	105.0	80.0
52-1/8"		80.0	105.0	80.0
18-1/8"		80.0	105.0	80.0
25-1/2"		80.0	105.0	80.0
36"	57"	80.0	105.0	80.0
47"		80.0	105.0	80.0
52-1/8"		80.0	105.0	80.0
18-1/8"		80.0	105.0	80.0
25-1/2"	62"	80.0	105.0	80.0
36"		80.0	105.0	80.0
47"		80.0	105.0	80.0
52-1/8"		80.0	105.0	80.0
18-1/8"	75"	80.0	105.0	80.0
25-1/2"		80.0	105.0	80.0
36"		80.0	105.0	80.0
47"		80.0	105.0	80.0



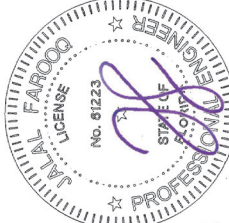
NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED
VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.



ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE
VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS
SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

Sealed: 10/23/2023

FL #21461



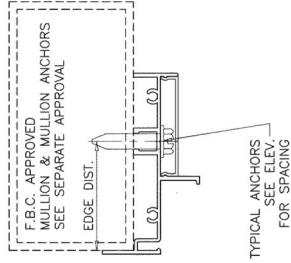
REVISIONS:	
no	date
1	11-29-16
2	by description

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

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



drawing no.
W16-76
sheet 3.1 of 9

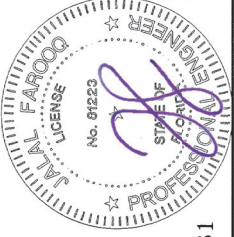


TYPICAL EDGE DISTANCE

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

WOOD AT HEAD, SILL OR JAMBS SC = 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.

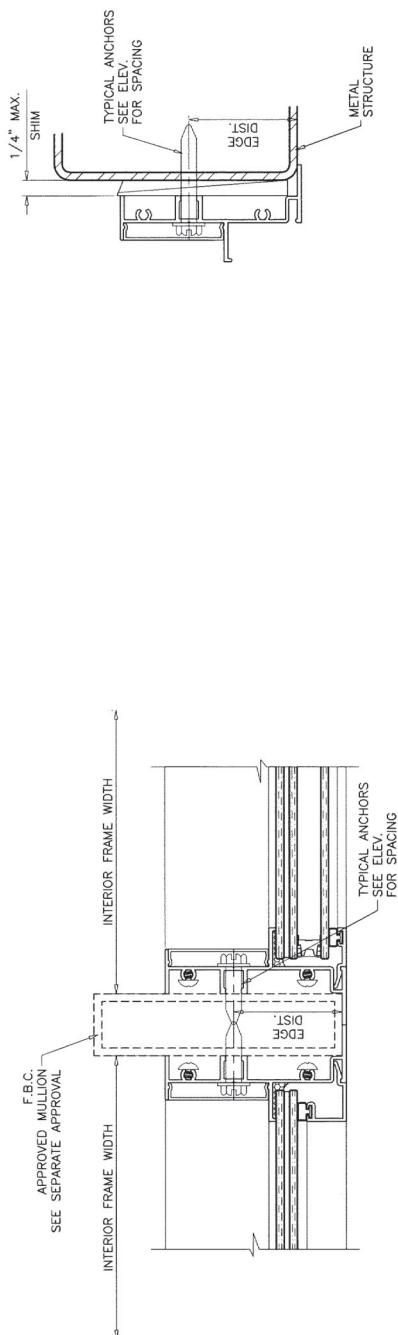
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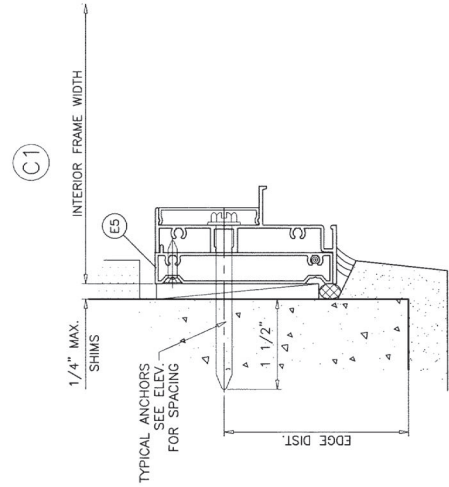


date: 11-29-16	revisions:	no date	by description
scale: 1/2" = 1"	dr. by: TARIQ	chk. by:	
drawing no. W16-76			
sheet 4 of 9			

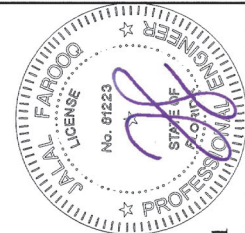
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
(C.A.N. 3538)
FAX. (305) 262-6978
TEL. (305) 264-8100
COMP-ANL\W16-76ES

ES-EL150 FIXED ALUMINUM WDW. (L.M.I.):
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL 33142
TEL. (305) 638-5151 FAX. (305) 638-5158



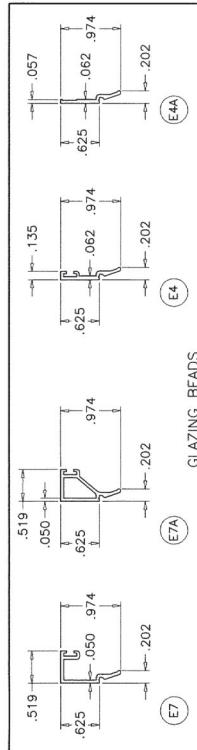
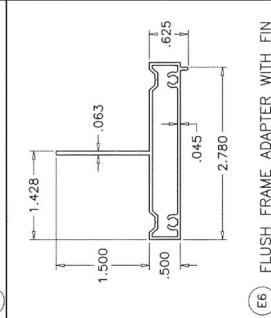
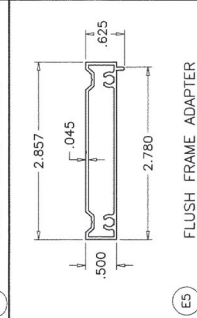
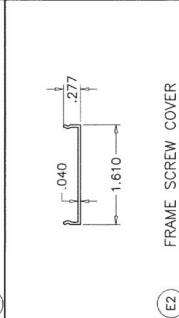
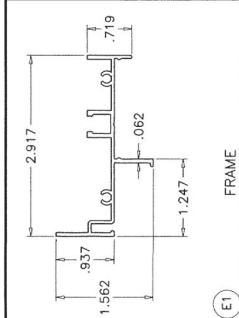


FL #21461

[illegible]

ES-EL150 FIXED ALUMINUM WDW. (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-EL155	1	FRAME	6063-T6	-
E2	ES-EL156	AS REQD.	FRAME SCREW COVER	6063-T6	-
E4	ES-EL111	AS REQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	-
E4A	ES-EL116	AS REQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	-
E5	ES-EL112	AS REQD.	FLUSH FRAME ADAPTER	6063-T6	-
E6	ES-EL115	AS REQD.	FLUSH FRAME ADAPTER WITH FIN	6063-T6	-
E7	ES-EL110	AS REQD.	GLAZING BEAD (7/16" LAM. GLASS)	6063-T6	-
E7A	ES-EL123	AS REQD.	GLAZING BEAD (7/16" LAM. GLASS)	6063-T6	-
M1	#8 X 1"	-	FRAME ASSEMBLY FASTENERS	ST. STEEL	PH SMS
M2	ES-5008A	AS REQD.	EXTERIOR BULB GASKET	SILICONE	DUROMETER 60±5 SHORE A
M2A	EL100-G02	AS REQD.	EXTERIOR LEAF GASKET	SILICONE	DUROMETER 60±5 SHORE A
M2B	ES-H-340-G05	AS REQD.	EXTERIOR WEDGE GASKET	SILICONE	DUROMETER 65±5 SHORE A
M3	80-372A	2/ LITE	SETTING BLOCK AT 1/4 POINTS (LAM. GLASS)	SILICONE	DUROMETER 80±5 SHORE A
M4	EL100-B01	2/ LITE	SETTING BLOCK AT 1/4 POINTS (INSUL. LAM. GLASS)	SILICONE	DUROMETER 80±5 SHORE A
M5	#8 X 1"	-	FLUSH/FIN FRAME ADAPTER ASSEMBLY FASTENERS	ST. STEEL	FH SMS

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
(C.A.N. 3538)
TEL. (305) 264-8300 FAX. (305) 262-6978

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

drawing no. **W16-76**
sheet 8 of 9

revisions: no. date by description

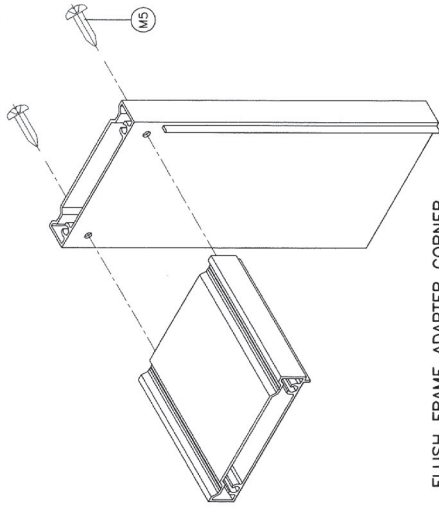
date: 11-29-16
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chk. by:
dr. by: TARIQ

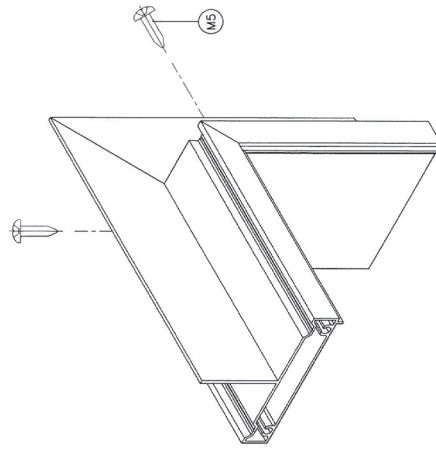
Sealed: 10/23/2023
FL #21461

Sealed: 10/23/2023

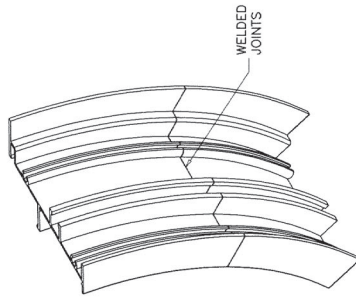
FL #21461



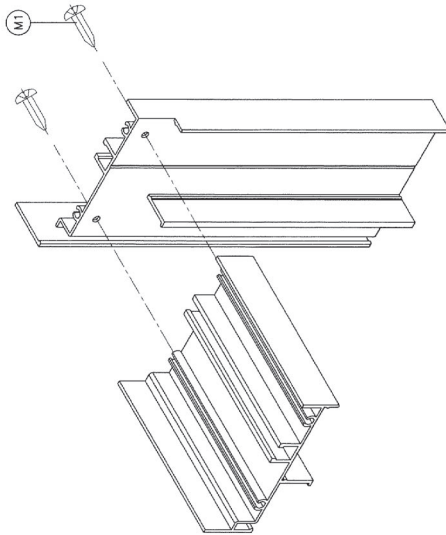
FLUSH FRAME ADAPTER CORNER

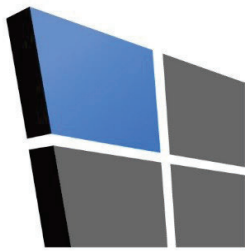


FIN FRAME ADAPTER CORNER



CIRCULAR WINDOWS

RECT. OR SQUARE WINDOWS



AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

PRODUCT APPROVAL EVALUATION RULE CHAPTER #61G20-3 • METHOD 1 OPTION D

FL 21461

Date: 10/19/2023

Detailed Product Description:

Manufacturer: E.S. WINDOWS, LLC

Manufacturer Address: 3550 NW 49 STREET. MIAMI, FL 33142

Model Name: SERIES ES-EL150 FIXED ALUMINUM WINDOW

Maximum Load: +80 PSF, -105 PSF (Large Missile Impact)

Installation Drawings # W16-76

This product complies with the High Velocity Hurricane Zone (HVHZ) testing requirements.

For maximum sizes, combination of span vs loads and anchor type refer to installation drawings.

Comparative analysis used X Yes No

Mandatory Tests (Tested in accordance with AAMA 101/I.S.2/NAFS/TAS-202)

Test	Description	Test Location	Test Report Date	Test Report #	Test Sealed By
ASTM E283	Air Infiltration Leakage	Blackwater Testing, Inc	11/14/2016 8/30/2023	BT-ESW-16-004 BT-ESW-23-014	Constantin Bortes, PE Michael D. Caldwell, PE
		Fenestration Testing Laboratory, Inc	4/23/2020 4/30/2020 4/30/2020	FTL-11027 FTL-12002 FTL-11035	Idalmis Ortega, PE
ASTM E331 OR ASTM E547 & TAS 202	Water Penetration	Blackwater Testing, Inc	11/14/2016 8/30/2023	BT-ESW-16-004 BT-ESW-23-014	Constantin Bortes, PE Michael D. Caldwell, PE
		Fenestration Testing Laboratory, Inc	4/23/2020 4/30/2020 4/30/2020	FTL-11027 FTL-12002 FTL-11035	Idalmis Ortega, PE
ASTM E330 & TAS 202	Uniform Static Air Press.	Blackwater Testing, Inc	11/14/2016 8/30/2023	BT-ESW-16-004 BT-ESW-23-014	Constantin Bortes, PE Michael D. Caldwell, PE
		Fenestration Testing Laboratory, Inc	4/23/2020 4/30/2020 4/30/2020	FTL-11027 FTL-12002 FTL-11035	Idalmis Ortega, PE

Supplemental Tests (Tested in accordance with TAS-201 and TAS-203)

Test	Description	Test Location	Test Report Date	Test Report#	Test Sealed By
FBC 1626.2 (TAS 201 & 203) ANSI Z97.1	Large Missile Impact & Cyclic	Blackwater Testing, Inc	11/14/2016 8/30/2023	BT-ESW-16-004 BT-ESW-23-014	Constantin Bortes, PE Michael D. Caldwell, PE
		Fenestration Testing Laboratory, Inc	4/23/2020 4/30/2020 4/30/2020	FTL-11027 FTL-12002 FTL-11035	Idalmis Ortega, PE

Under the limitations of the attached installation drawings, to the best of my knowledge and ability, the above product conforms to the requirements of the 2023 Florida Building Code.

Evaluation Report Engineer:

Jalal Farooq

PE # 81223

Al-Farooq Corporation

EB # 3538



Sealed: 10/20/2023

FLORIDA DEPARTMENT OF

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Product Approval

USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

▶ OFFICE OF THE SECRETARY

FL #

Application Type

Code Version

Application Status

Comments

Archived

Product Manufacturer

Address/Phone/Email

Authorized Signature

Technical Representative

Address/Phone/Email

Quality Assurance Representative

Address/Phone/Email

Category

Subcategory

Compliance Method

Florida Engineer or Architect Name who developed the Evaluation Report

Florida License

Quality Assurance Entity

Quality Assurance Contract Expiration Date

Validated By

Certificate of Independence

Referenced Standard and Year (of Standard)

FL22267-R13

Revision

2023

Approved

E.S. Windows, Inc.

10653 NE Quaybridge Ct.

Miami, FL 33138

(305) 638-5151

ssabagh@energiasolarsa.com

Yiping Wang

mcyengineering@outlook.com

Samir Sabagh

3550 NW 49th St.

Miami, FL 33142

(305) 638-5151

ssabagh@energiasolarsa.com

Exterior Doors

Sliding Exterior Door Assemblies

Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer

Evaluation Report - Hardcopy Received

Yiping Wang

PE-55983

Keystone Certifications, Inc.

07/16/2035

Xiaojun Gu

Validation Checklist - Hardcopy Received

[FL22267_R13_COI_Certificate of Independence FBC 2023.pdf](#)

Standard	Year
AAMA 1304	2002
ASTM E1886	2019
ASTM E1996	2020
ASTM E283	2012
ASTM E331	2016
ASTM F842	2017
TAS 201	1994
TAS 202	1994
TAS 203	1994

Equivalence of Product Standards
Certified By

Sections from the Code

Product Approval Method	Method 1 Option D
Date Submitted	08/29/2024
Date Validated	10/28/2024
Date Pending FBC Approval	10/31/2024
Date Approved	12/10/2024

Summary of Products

FL #	Model, Number or Name	Description
22267.1	ES-SGD2020 SLIDING GLASS DOOR-LMI & SMI	sliding glass door-large and small missile impact.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +150/-150 Other: for sliding glass door sizes vs. design pressure refer to installation instructions		Installation Instructions FL22267_R13_II_ES-SGD2020_SLIDING GLASS DOOR LMI SMI FL22267 AD16-29 REV 10.08.2024-SS.pdf Verified By: Yiping Wang PE #55983 Created by Independent Third Party: Yes Evaluation Reports FL22267_R13_AE_SGD2020-EVR FBC 2023_ss.pdf Created by Independent Third Party: Yes

[Back](#) [Next](#)

[Contact Us](#) :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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Product Approval Accepts:



ES WINDOWS, INC.
SERIES SGD 2020 SLIDING GLASS DOOR
LARGE AND SMALL MISSILE IMPACT

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

LAMINATED GLASS AND INSULATED-LAMINATED GLASS LARGE
AND SMALL MISSILE IMPACT.

SERIES SGD 2020 SLIDING GLASS DOOR

APPLICABLE EGRESS REQUIREMENTS PER FBC TO BE REVIEWED BY BUILDING OFFICIAL.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF
THE FLORIDA BUILDING CODE 8TH EDITION (2023) INCLUDING HIGH VELOCITY HURRICANE
ZONE (HVHZ).

THESE DOORS ARE APPROVED FOR AIR AND WATER INFILTRATION.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT
TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF
THIS APPROVAL.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL / METAL SCREWS THAT COME INTO
CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE
FLORIDA BUILDING CODE 8TH EDITION (2023) SECTION AS APPLICABLE.

METAL STRUCTURES BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY
THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR
EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS
DOCUMENT ARE ALLOWABLE DESIGN LOADS.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN
ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY
WITH SECTION 1709.9.2.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS

STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY; BLDG HEIGHT,
WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.

STEP 2 SEE ALLOWABLE CONFIGURATIONS ON SHEETS EG THROUGH E12. SEE CHARTS ON
SHEET G1 FOR ALLOWABLE DESIGN LOAD BASED ON DESIRED GLASS TYPE. SEE CHARTS
ON SHEET K1 FOR INTERLOCK DESIGN LOAD. SEE SHEET K2 FOR SILL RAISER OPTION
FOR WATER INFILTRATION.

STEP 3 FOR FREESTANDING JAMB USED AT 2 TRACK OR 3 TRACK, SEE CHARTS ON SHEET J1
AND J2 FOR REINFORCING LEVEL AND CAPACITIES.

STEP 4 FOR ANCHORED JAMB, SEE OPTIONS AND SPACING ON SHEETS J3 AND J4.

STEP 5 USING CHARTS ON SHEET A1 SELECT ANCHOR OPTION WITH DESIGN RATING MORE
THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 6 THE LOWEST VALUE RESULTING FROM STEPS 2 THRU 5 SHALL APPLY TO ENTIRE
SYSTEM.

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING	C - CENTER LINE
F.H. - FRAME HEIGHT	S.S. - STAINLESS STEEL
F.W. - FRAME WIDTH	H.S. - HEAT STRENGTHENED
LG. - LONG	SSG - STRUCTURAL SILICONE
STL. - STEEL	GLAZED
ALUM. - ALUMINUM	TEMP. - TEMPERED
MULL. - MULLION	O.C. - ON CENTER
HORIZ. - HORIZONTAL	G.B. - GLASS BITE
W/- WITH	SECTION NUMBER
W/O - WITHOUT	
VERT. - VERTICAL	
T.H. - TRANSOM HEIGHT	



FL #222267

- LIMITS OF USE**
- A. THIS PRODUCT EVALUATION DOCUMENT (PEAD) PREPARED BY THIS ENGINEER IS VALID FOR THE PROJECT AND SITE SPECIFIC INFORMATION FOR A SITE SPECIFIC PROJECT. IT IS NOT TO BE USED FOR ANY OTHER PROJECT OR SITE. THE ENGINEER'S RESPONSIBILITY IS TO THE CLIENT AND NOT TO THE USER OF THIS DOCUMENT.
 - B. CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THE PRODUCT EVALUATION PROVIDED ON THE PRODUCT EVALUATION PROVIDED THE CONDITIONS OUTLINED ON THIS DOCUMENT.
 - C. THIS PRODUCT EVALUATION DOCUMENT IS NOT TO BE USED IN ANY MANNER THAT WOULD IMPLY IT ALTERED BY ANY MEANS.
 - D. SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER AND SHALL BECOME THE ENGINEER OF RECORD. THE ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE PROPER USE OF THE PEAD.
 - E. THIS PEAD SHALL BE VALID FOR THE DATE AND PROJECT ONLY. ANY CHANGES TO THE PEAD SHALL BE MADE IN WRITING BY THE PROFESSIONAL ENGINEER OF RECORD.

ES-SGD2020 SLIDING GLASS DOOR (LM & SM)

ES WINDOWS, INC.

10653 NE Quayhenge Ct.

Miami, FL 33138

TEL. (305) 654-7775

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P. 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

mcy@mcyengineering.com

COVER
01 OF 59

AD16-29

DRAWING NO.

Scale
AS SHOWN

10/08/2024

Drawn Date

Rev.

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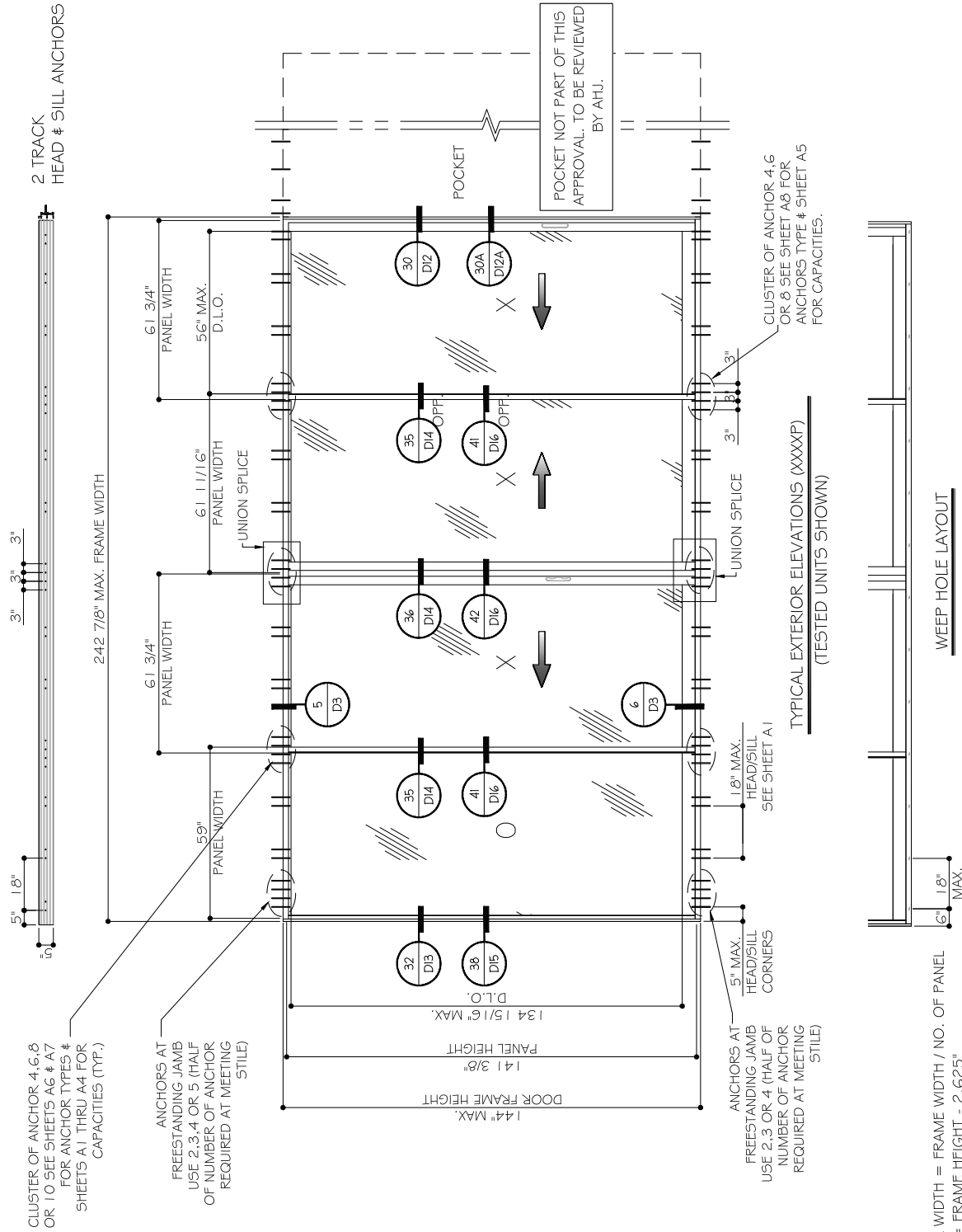
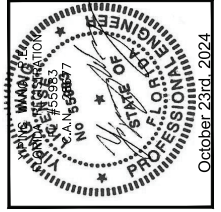
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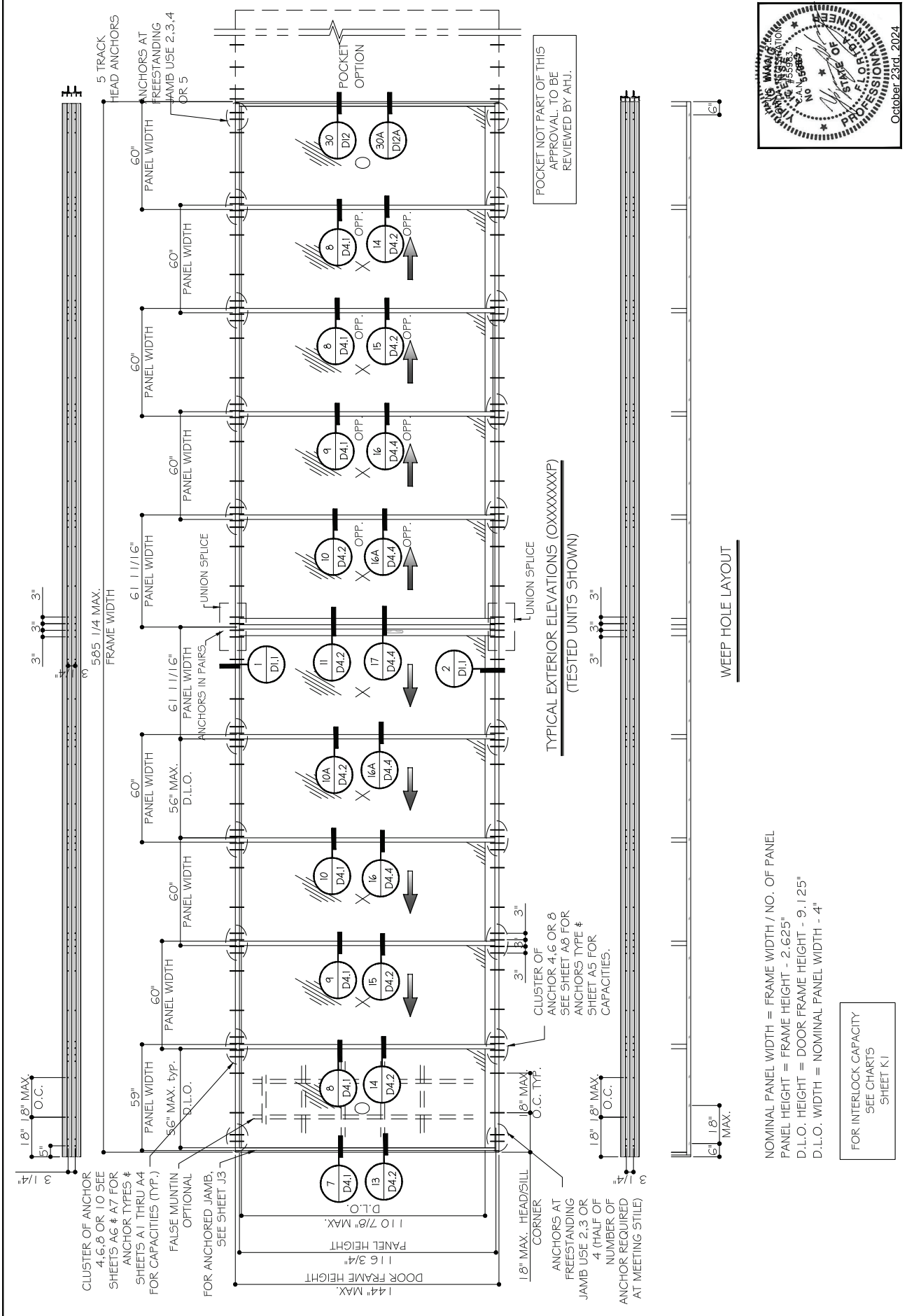
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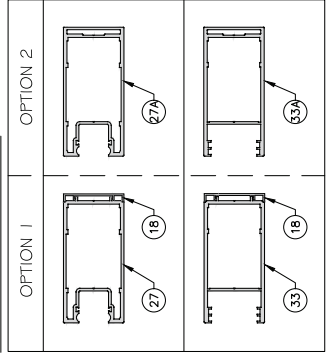
Rev.



NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
 PANEL HEIGHT = FRAME HEIGHT - 2.625"
 D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9.125"
 D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4"



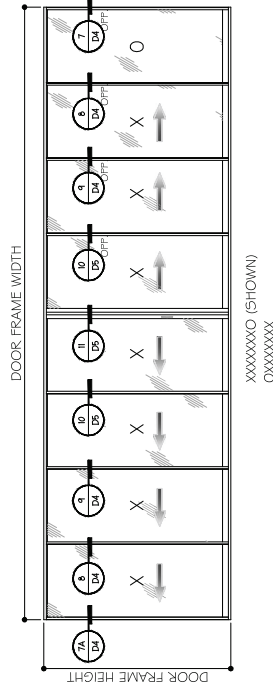
LOCKSTIFF OPTIONS



SLIDING DOOR WITH CORNER STILES			
PANEL W. (E.G. AT 500x500)	F.H.	ALLOW. DESIGN LOAD	
(IN)	(IN)	(+) PSF	(-) PSF
48	120	90	102
54		88.3	100.1
60		79.5	90.1
42	126	90	102
48		85.8	97.3
54		76.3	86.5
42	132	85.3	96.7
48		74.7	84.6
54		66.4	75.2
36	138	87.1	98.7
42		74.7	84.6
48		65.3	74.1
36	144	76.7	86.9
42		65.7	74.5
48		57.5	65.2

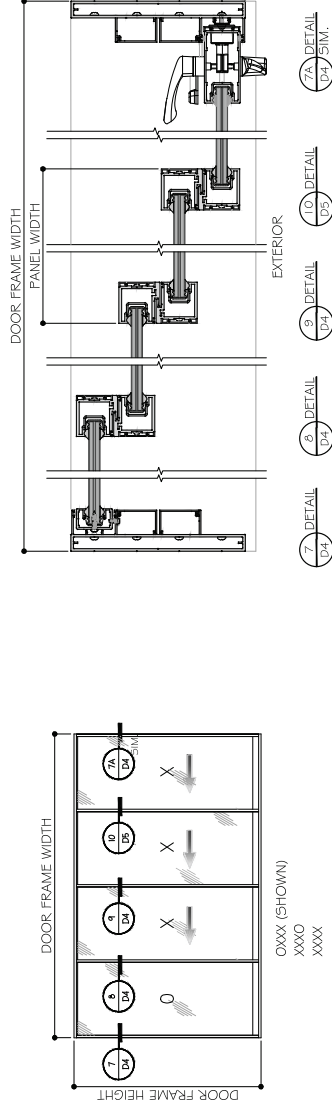
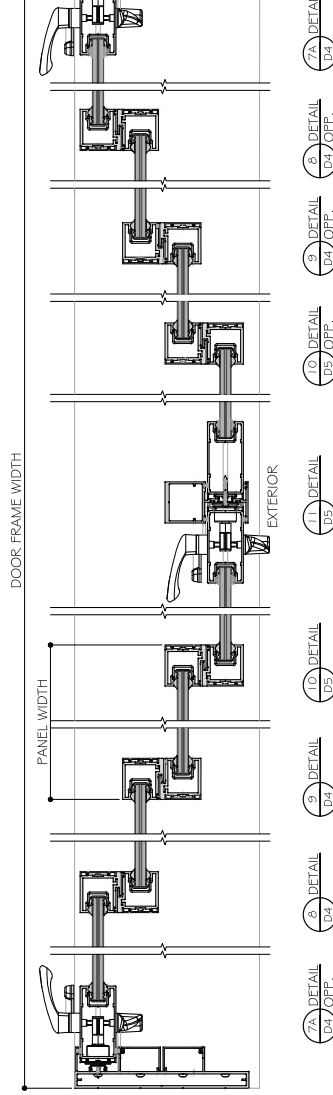
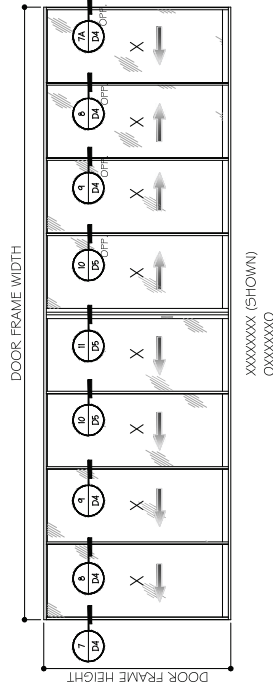
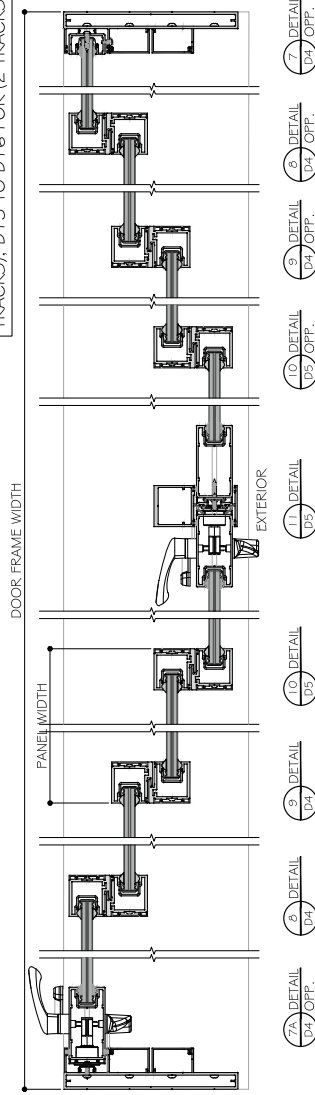
NOTE: CAPACITY FOR SGD WITH EQ WIDTH(W) AND
EQUAL LOAD AT BOTH SIDES, FOR UNEQUAL
CONDITIONS TO BE CHECKED SEPARATELY.

APPROVED CONFIGURATION DOORS
(NON-REINFORCED SHOWN)
SEE SHEET K.1 FOR D_p AND REINFORCING OPTIONS

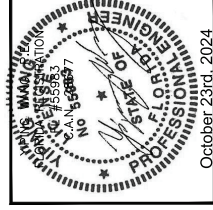


LAMINATED GLASS OPTIONS SHOWN.
SEE DETAILS FOR INSULATED LAMINATED OPTION.

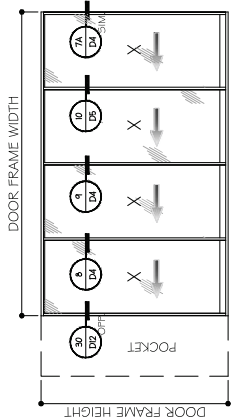
NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D4
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3
TRACKS), D13 TO D16 FOR (2 TRACKS).



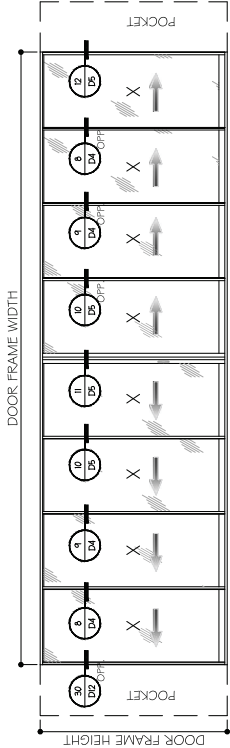
- NOTES:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. SEE CHART ON SHEET G.1 FOR GLASS CAPACITIES AND GLASS OPTIONS.
 3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K.1.
 4. FOR ANCHOR DETAILS AND CAPACITIES AT HEADSILL SEE SHEET A1 TO A8.
 5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
 6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.



APPROVED CONFIGURATION POCKETED DOORS
(NON-REINFORCED SHOWN)
SEE SHEET K.1 FOR D_p AND REINFORCING OPTIONS



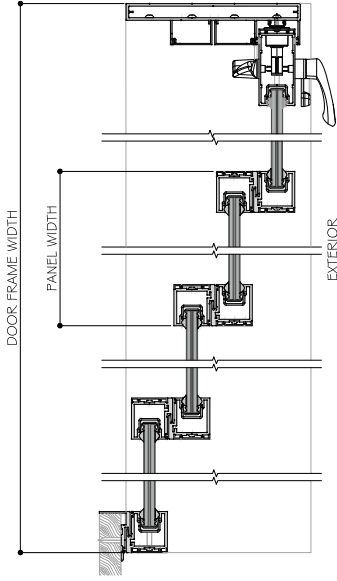
PXXXX (SHOWN)
XXXXP



PXXXXXXXP (SHOWN)
PXXXXXXX
XXXXXXX
OXXXXXXXP
PXXXXXXX

LAMINATED GLASS OPTIONS SHOWN.
SEE DETAILS FOR INSULATED LAMINATED OPTION.

NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D4
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3
TRACKS), D13 TO D16 FOR (2 TRACKS).

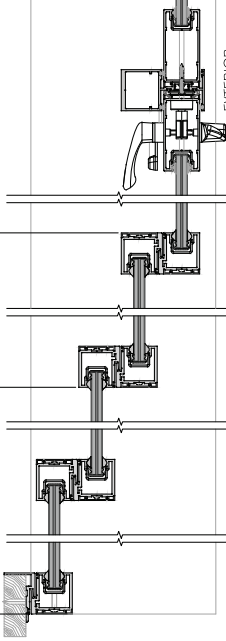


30 DETAIL D12 OFF.
8 DETAIL D4
9 DETAIL D4
10 DETAIL D5
7A DETAIL D4 SIM.

EXTERIOR

DOOR FRAME WIDTH

PANEL WIDTH



30 DETAIL D12 OFF.
8 DETAIL D4
9 DETAIL D4
10 DETAIL D5
11 DETAIL D5
12 DETAIL D5

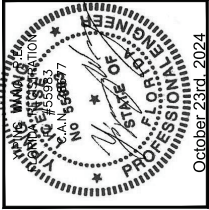
EXTERIOR

10 DETAIL D5 OFF.
9 DETAIL D4 OFF.
8 DETAIL D4 OFF.
12 DETAIL D5

- NOTES:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. SEE CHART ON SHEET G.1 FOR GLASS CAPACITIES AND GLASS OPTIONS.
 3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K.1.
 4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A.1 TO A.8.
 5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J.1 TO J.4.
 6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

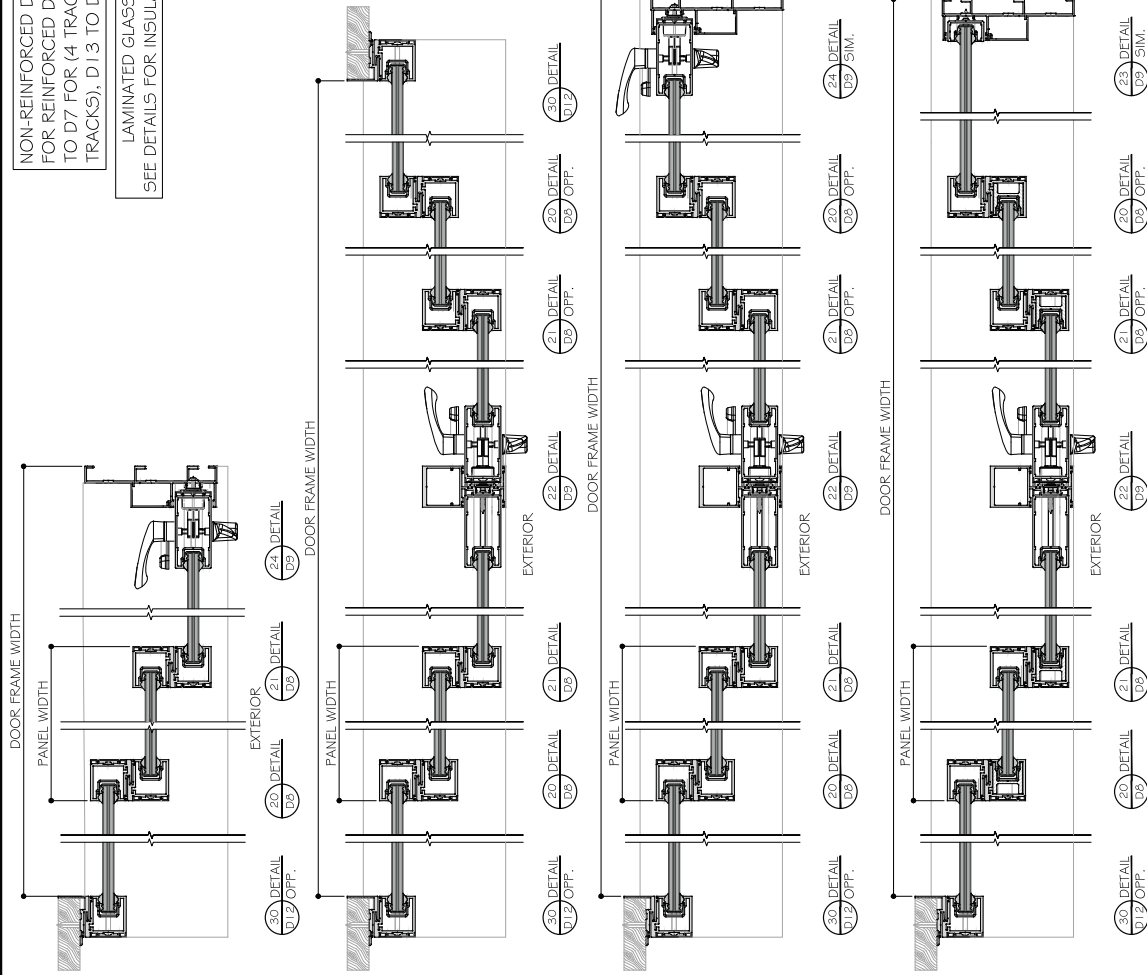
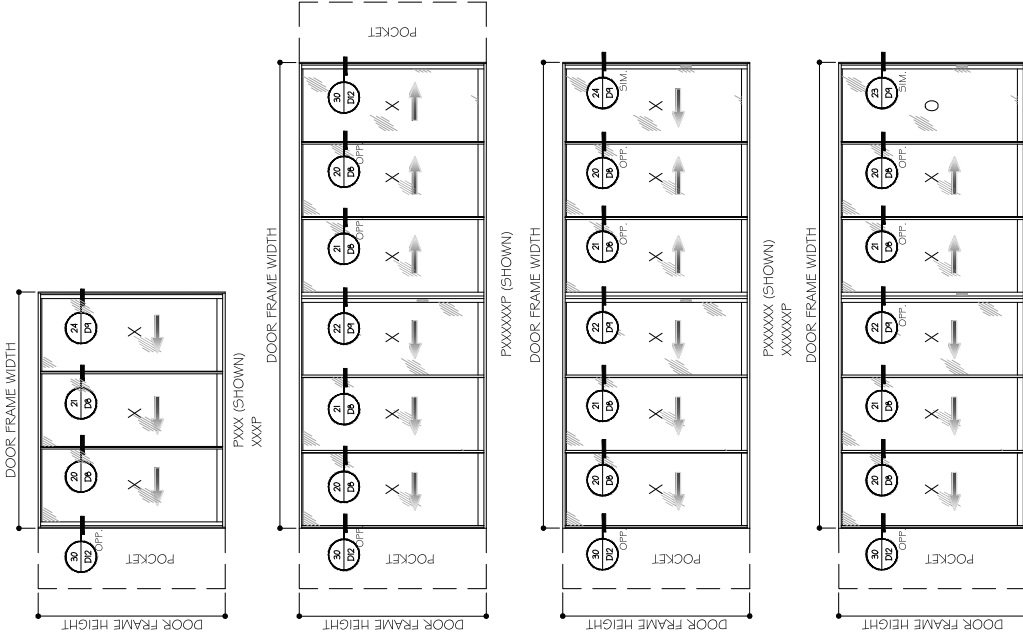
FOUR (4) TRACKS

POCKETS ARE NOT PART OF THIS APPROVAL
AND ARE TO BE REVIEWED BY AHJ.



APPROVED CONFIGURATION POCKETED DOORS

(NON-REINFORCED SHOWN)
SEE SHEET K.1 FOR D_p AND REINFORCING OPTIONS



NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D4
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3
TRACKS), D13 TO D16 FOR (2 TRACKS).

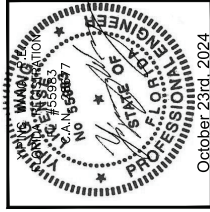
LAMINATED GLASS OPTIONS SHOWN.
SEE DETAILS FOR INSULATED LAMINATED OPTION.

NOTES:

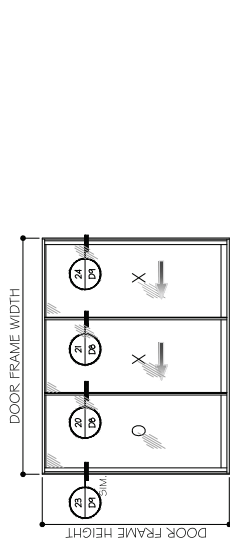
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE CHART ON SHEET G.1 FOR GLASS CAPACITIES AND GLASS OPTIONS.
3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K.1.
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 TO A8.
5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER IBC.

THREE (3) TRACKS

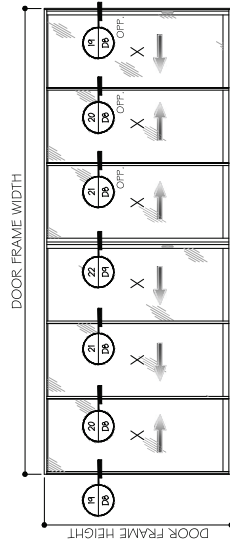
POCKET'S ARE NOT PART OF THIS APPROVAL
AND ARE TO BE REVIEWED BY AHL.



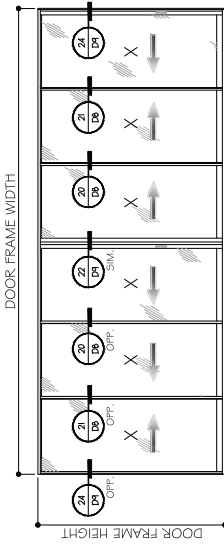
APPROVED CONFIGURATION DOORS
(NON-REINFORCED SHOWN)
SEE SHEET K.I FOR Dp AND REINFORCING OPTIONS



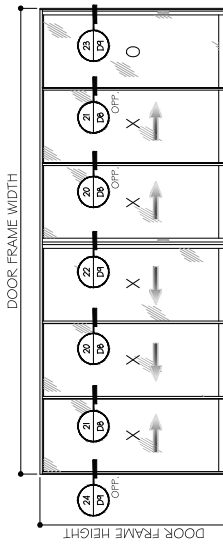
OXO (SHOWN)
XOX (# REVERSE)



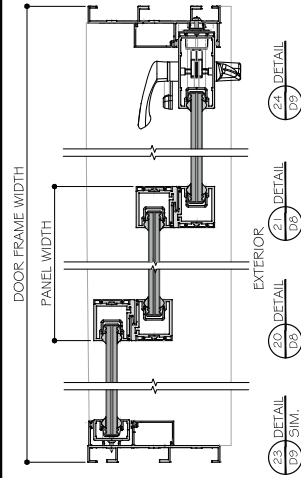
XXXXX (SHOWN)
OXXXXX



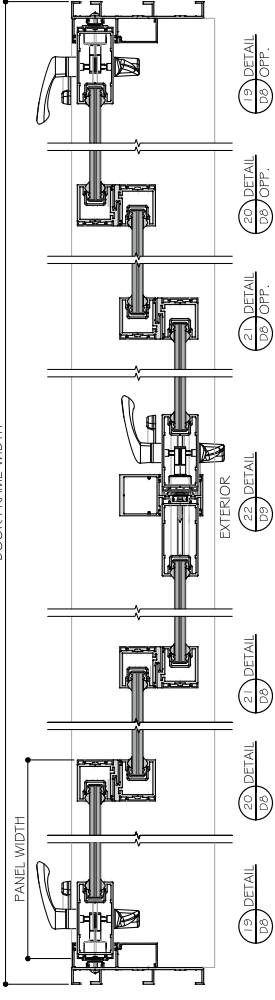
XXXXX (SHOWN)



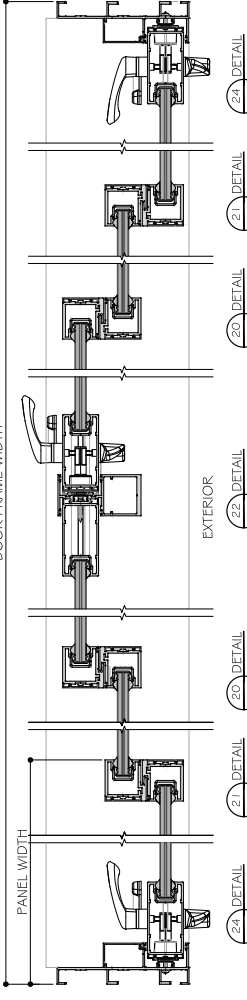
XXXXX (SHOWN)
OXXXXX



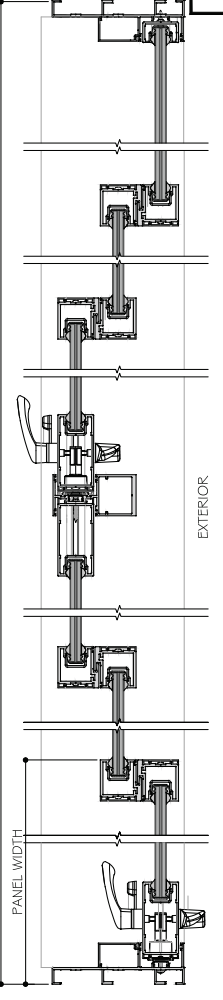
DOOR FRAME WIDTH



DOOR FRAME WIDTH

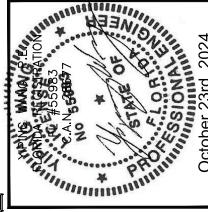


DOOR FRAME WIDTH



DOOR FRAME WIDTH

NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D4
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3
TRACKS), D13 TO D16 FOR (2 TRACKS).
LAMINATED GLASS OPTIONS SHOWN.
SEE DETAILS FOR INSULATED LAMINATED OPTION.

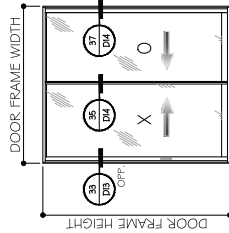


- NOTES:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. SEE CHART ON SHEET G.I FOR GLASS CAPACITIES AND GLASS OPTIONS.
 3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K.I.
 4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 TO A3.
 5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
 6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

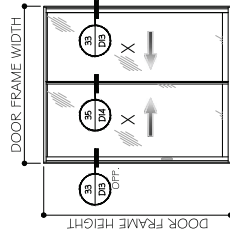
THREE (3) TRACKS
POCKETS ARE NOT PART OF THIS APPROVAL
AND ARE TO BE REVIEWED BY AHL.

APPROVED CONFIGURATION DOORS

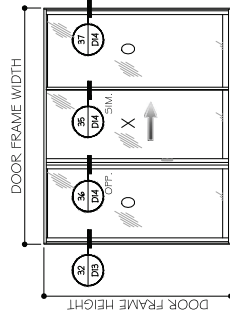
(NON-REINFORCED SHOWN)
SEE SHEET K.1 FOR D_p AND REINFORCING OPTIONS



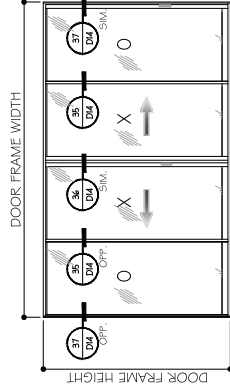
XO (SHOWN)
OX



XX



OXO (SHOWN)
OXO (REVERSE)



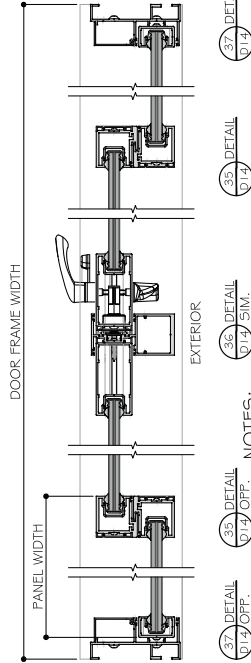
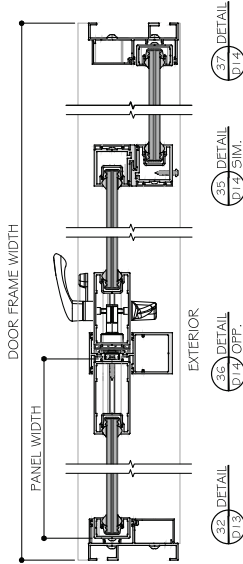
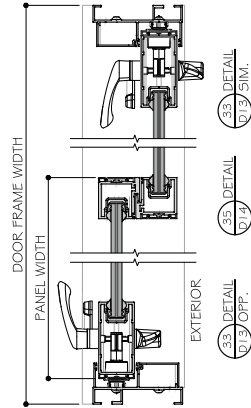
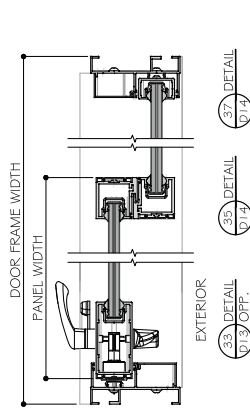
OXO (SHOWN)
XXX (SIMILAR)

TWO (2) TRACKS

POCKETS ARE NOT PART OF THIS APPROVAL
AND ARE TO BE REVIEWED BY AHJ.

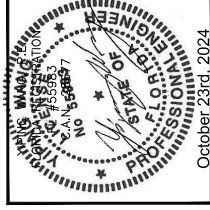
LAMINATED GLASS OPTIONS SHOWN.
SEE DETAILS FOR INSULATED LAMINATED OPTION.

NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D4
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3
TRACKS), D13 TO D16 FOR (2 TRACKS).



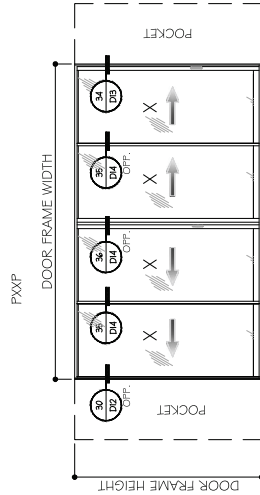
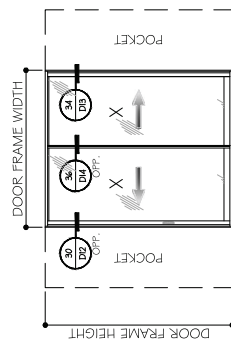
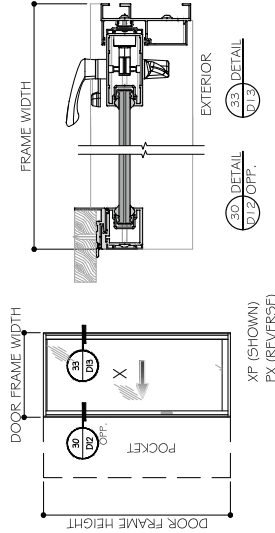
NOTES:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE CHART ON SHEET G.1 FOR GLASS CAPACITIES AND GLASS OPTIONS.
3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K.1.
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A.1 TO A.6.
5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J.1 TO J.4.
6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

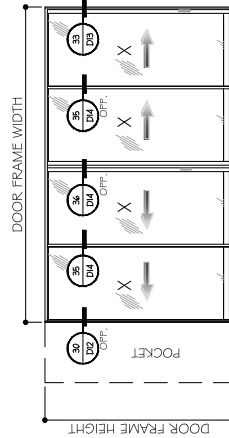


No.	Date	Drawn By	Checked By	Description
1	10/08/2024			
2				
3				
4				
5				
6				
7				
8				
9				
10				

(NON-REINFORCED SHOWN)



PXXXXP

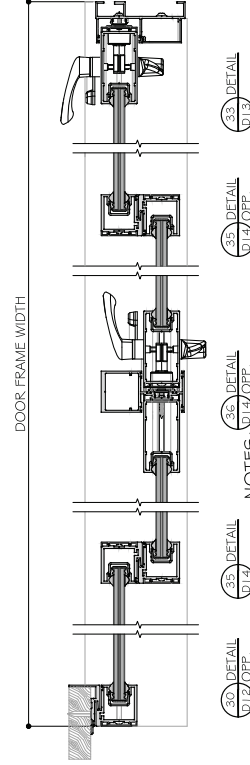
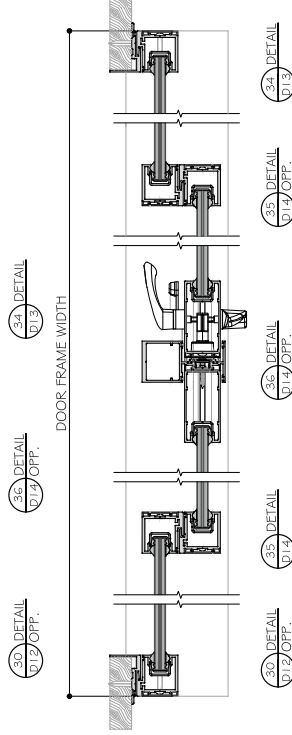
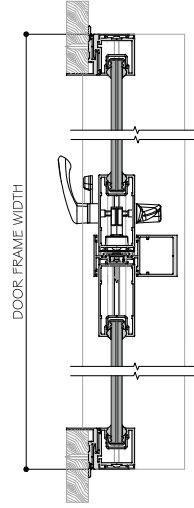
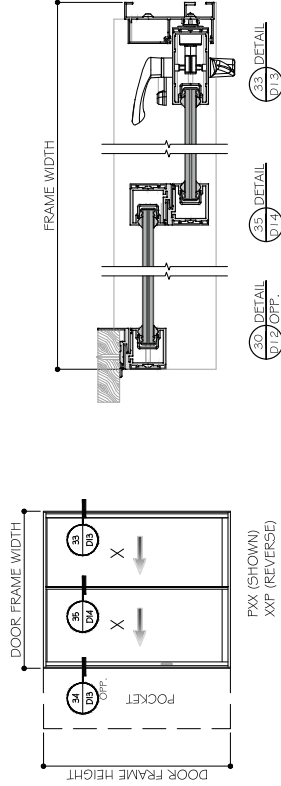


PXXX (SHOWN)
XXXXP (REVERSE)
PXXXO
OXXXP

TWO (2) TRACKS

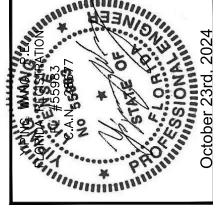
POCKETS ARE NOT PART OF THIS APPROVAL
AND ARE TO BE REVIEWED BY AHJ.

LAMINATED GLASS OPTIONS SHOWN.
SEE DETAILS FOR INSULATED LAMINATED OPTION.

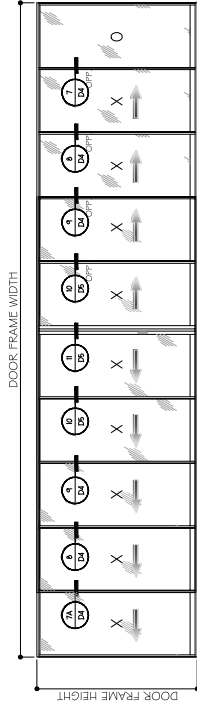


- NOTES: NO DETAIL NO DETAIL NO DETAIL
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. SEE CHART ON SHEET G1 FOR GLASS CAPACITIES AND GLASS OPTIONS.
 3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING SHEET 1, 2 OR 3. SEE SHEET K1.
 4. FOR ANCHOR DETAILS AND CAPACITIES AT HEADS/ILL SEE SHEET A1 TO A8.
 5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
 6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

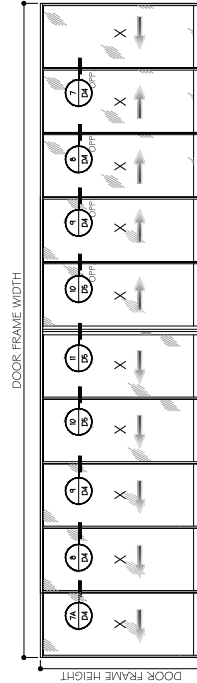
NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D4
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (2
TRACKS), D13 TO D16 FOR (2 TRACKS).



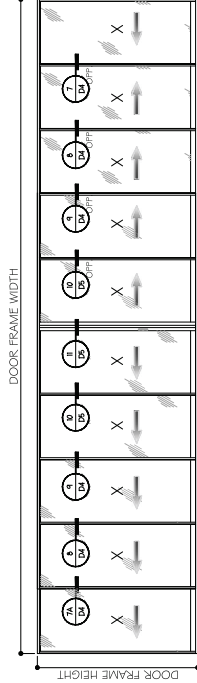
APPROVED CONFIGURATION POCKETED AND NO POCKET DOORS
(NON-REINFORCED SHOWN)
SEE SHEET K.1 FOR D₇ AND REINFORCING OPTIONS



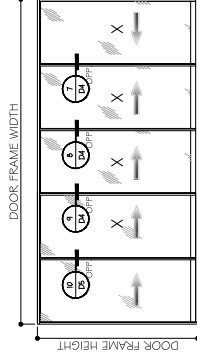
XXXXXXX (SHOWN)
XXXXXXXXXX



XXXXXXX (SHOWN)
XXXXXXXXXX



XXXXXXX (SHOWN)
XXXXXXXXXX



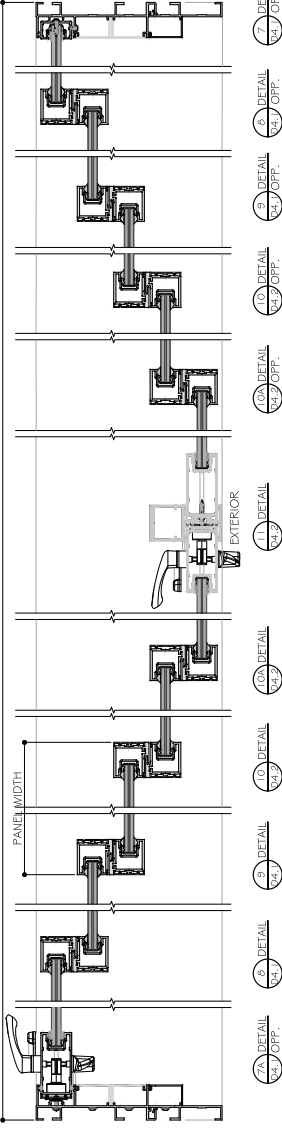
FIVE (5) TRACKS

POCKETED ARE NOT PART OF THIS APPROVAL
AND ARE TO BE REVIEWED BY AHJ.

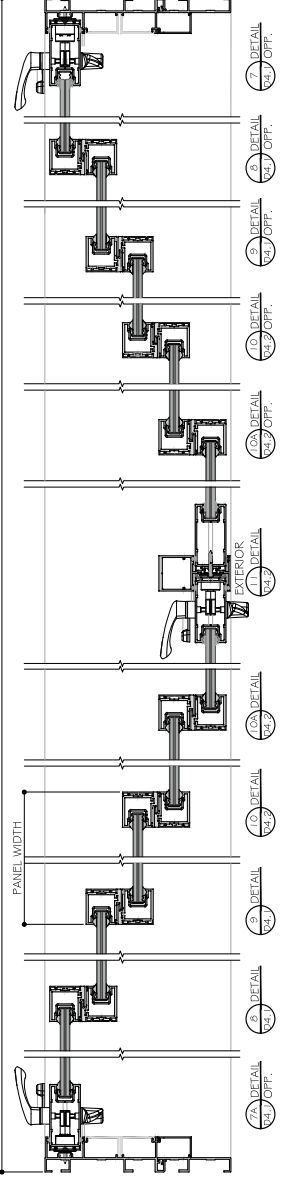
NOTES:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY. XXXXX (SHOWN)
2. SEE CHART ON SHEET G.1 FOR GLASS CAPACITIES AND GLASS OPTIONS.
3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K.1.
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A.1 TO A.8.
5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J.1 TO J.4.
6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

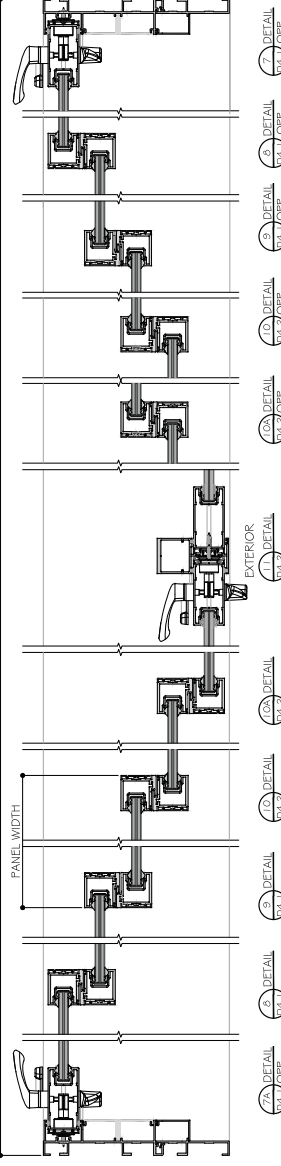
DOOR FRAME WIDTH



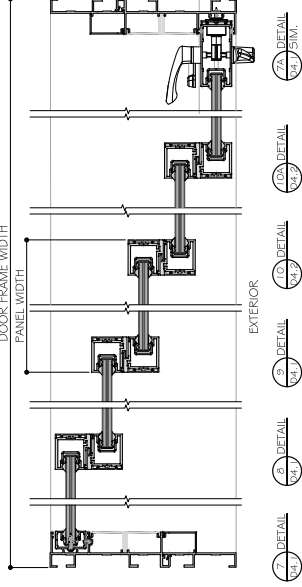
DOOR FRAME WIDTH



DOOR FRAME WIDTH

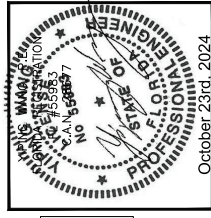


DOOR FRAME WIDTH
PANEL WIDTH



LAMINATED GLASS OPTIONS SHOWN.
SEE DETAILS FOR INSULATED
LAMINATED OPTION.

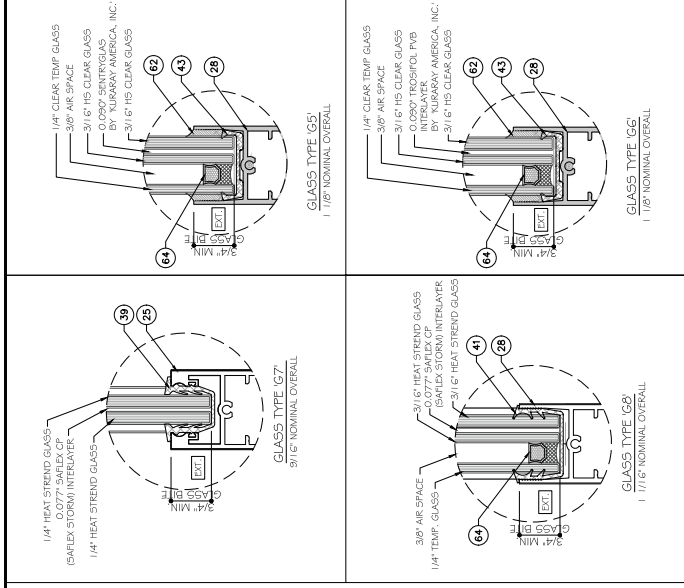
NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D.4
TO D.7 FOR (4 TRACKS), D.8 TO D.12 FOR (3
TRACKS), D.13 TO D.16 FOR (2 TRACKS).



DESIGN LOAD CAPACITY - PSF (GLASS)									
SGD PANEL SIZES	DOOR HEIGHT (IN)	G1	G2	G7	G3	G4	G5	G6	G8
AVE. PANEL WIDTH (IN)		9 1/16" NOMINAL LAMINATED GLASS							
60	84	150.0	150.0	90.0	150.0	150.0	150.0	102.0	90.0
66		150.0	150.0	90.0	150.0	150.0	150.0	102.0	90.0
72		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
78		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
84	90	102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
60		150.0	150.0	90.0	150.0	150.0	150.0	102.0	90.0
66		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
72		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
78	96	102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
84		102.0	-	-	102.0	-	-	-	-
36		150.0	150.0	90.0	150.0	150.0	150.0	102.0	90.0
42		150.0	150.0	90.0	150.0	147.0	147.0	102.0	90.0
48	102	150.0	150.0	90.0	150.0	131.0	131.0	102.0	90.0
54		150.0	139.0	90.0	150.0	120.0	120.0	102.0	90.0
60		102.0	100.0	90.0	102.0	102.0	102.0	-	90.0
66		102.0	100.0	90.0	102.0	102.0	102.0	-	90.0
72	108	102.0	100.0	90.0	102.0	101.0	101.0	-	90.0
78		102.0	-	-	102.0	-	-	-	-
84		102.0	-	-	102.0	-	-	-	-
36		150.0	150.0	90.0	150.0	150.0	150.0	102.0	90.0
42	120	150.0	150.0	90.0	150.0	136.0	136.0	102.0	90.0
48		150.0	147.0	90.0	150.0	122.0	122.0	102.0	90.0
54		102.0	102.0	90.0	102.0	102.0	102.0	-	90.0
60		102.0	102.0	90.0	102.0	102.0	102.0	-	90.0
66	132	102.0	102.0	90.0	102.0	101.0	101.0	-	90.0
72		102.0	-	-	102.0	-	-	-	-
78		102.0	-	-	102.0	-	-	-	-
84		102.0	-	-	102.0	-	-	-	-
36	144	150.0	150.0	90.0	150.0	136.0	136.0	102.0	90.0
42		150.0	147.0	90.0	150.0	122.0	122.0	102.0	90.0
48		102.0	102.0	90.0	102.0	102.0	102.0	-	90.0
54		102.0	102.0	90.0	102.0	102.0	102.0	-	90.0
60	160	102.0	-	-	102.0	-	-	-	-
66		102.0	-	-	102.0	-	-	-	-
72		102.0	-	-	102.0	-	-	-	-
78		102.0	-	-	102.0	-	-	-	-

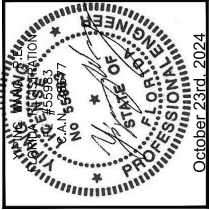
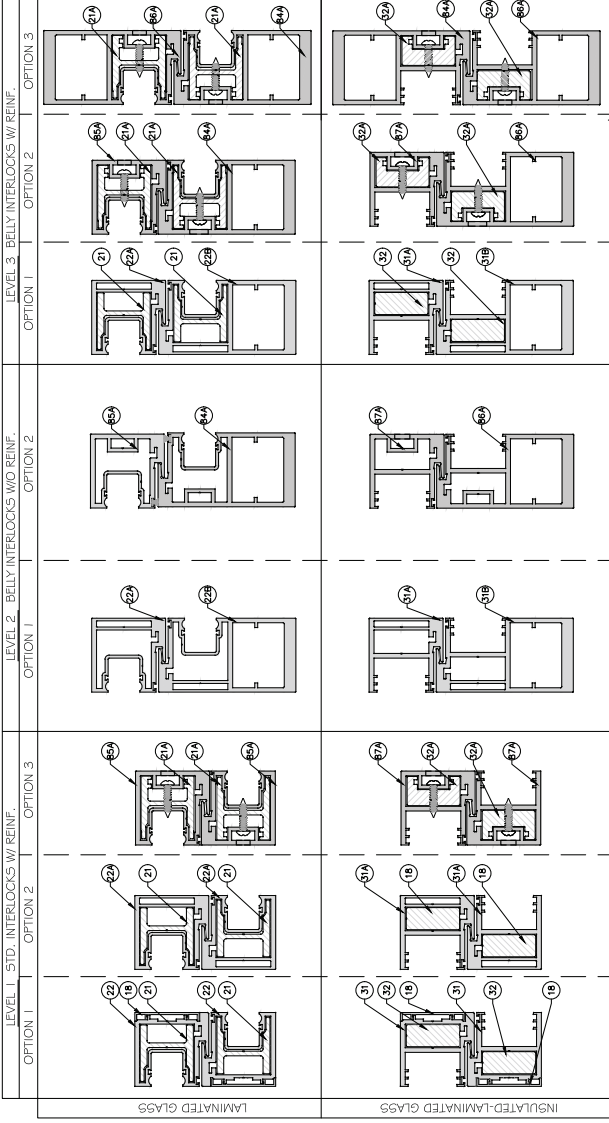
D.L.O. WIDTH = AVE. PANEL WIDTH - 4"
D.L.O. HEIGHT = FRAME HEIGHT - 9.125"

DESIGN LOAD CAPACITY - PSF (GLASS)									
SGD PANEL SIZES	DOOR HEIGHT (IN)	G1	G2	G7	G3	G4	G5	G6	G8
AVE. PANEL WIDTH (IN)		9 1/16" NOMINAL LAMINATED GLASS							
36	114	150.0	150.0	90.0	150.0	150.0	150.0	102.0	90.0
42		150.0	150.0	90.0	150.0	132.0	132.0	102.0	90.0
48		150.0	150.0	90.0	139.0	115.0	115.0	102.0	90.0
54		102.0	102.0	90.0	102.0	102.0	102.0	-	90.0
60	120	102.0	102.0	90.0	102.0	98.8	102.0	-	90.0
66		102.0	-	-	102.0	-	-	-	-
72		102.0	-	-	102.0	-	-	-	-
78		150.0	150.0	90.0	150.0	129.0	129.0	102.0	90.0
84	126	150.0	132.0	90.0	148.0	110.0	110.0	102.0	90.0
90		102.0	102.0	90.0	102.0	101.0	102.0	-	90.0
96		102.0	102.0	90.0	102.0	92.8	102.0	-	90.0
102		102.0	-	-	102.0	-	-	-	-
108	132	102.0	-	-	102.0	-	-	-	-
114		102.0	-	-	102.0	-	-	-	-
120		102.0	-	-	102.0	-	-	-	-
126		102.0	-	-	102.0	-	-	-	-
132	138	102.0	-	-	102.0	-	-	-	-
138		102.0	-	-	102.0	-	-	-	-
144		102.0	-	-	102.0	-	-	-	-
150		102.0	-	-	102.0	-	-	-	-
156	144	102.0	-	-	102.0	-	-	-	-
162		102.0	-	-	102.0	-	-	-	-
168		102.0	-	-	102.0	-	-	-	-
174		102.0	-	-	102.0	-	-	-	-
180	160	102.0	-	-	102.0	-	-	-	-
186		102.0	-	-	102.0	-	-	-	-
192		102.0	-	-	102.0	-	-	-	-
198		102.0	-	-	102.0	-	-	-	-



DESIGN LOAD CAPACITY - PSF						
SGD PANEL SIZES		LEVEL 1	LEVEL 2	LEVEL 3		
		(STD INTERLOCK W/ REINF.)	(BELLY INTERLOCK W/O REINF.)	(BELLY INTERLOCK W/ REINF.)		
AVE. PANEL WIDTH	DOOR HEIGHT	PSF	PSF	PSF	PSF	PSF
(IN)	(IN)					
36	102	+85/-100		65.0/78.0		90.0/150.0
42	102	+85/-100		65.0/78.0		90.0/150.0
48	102	+85/-100		65.0/78.0		90.0/150.0
54	102	+85/-100		65.0/78.0		90.0/150.0
60	102	+85/-100		65.0/78.0		90.0/150.0
66	102	+85/-100		65.0/78.0		90.0/150.0
72	102	-		65.0/78.0		90.0/150.0
36	108	+85/-100		65.0/78.0		90.0/150.0
42	108	+85/-100		65.0/78.0		90.0/150.0
48	108	+85/-100		65.0/78.0		90.0/150.0
54	108	+85/-100		65.0/78.0		90.0/150.0
60	108	+85/-100		65.0/78.0		90.0/150.0
66	108	+85/-100		65.0/78.0		90.0/150.0
72	108	-		65.0/78.0		90.0/150.0
36	114	+85/-100		65.0/78.0		90.0/150.0
42	114	+85/-100		65.0/78.0		90.0/150.0
48	114	+85/-100		65.0/78.0		90.0/150.0
54	114	+85/-100		65.0/78.0		90.0/150.0
60	114	+85/-100		65.0/78.0		90.0/150.0
66	114	+85/-100		65.0/78.0		90.0/150.0
72	114	-		65.0/78.0		90.0/150.0
36	120	+85/-100		65.0/78.0		90.0/150.0
42	120	+85/-100		65.0/78.0		90.0/150.0
48	120	+85/-100		65.0/78.0		90.0/150.0
54	120	+85/-100		65.0/78.0		90.0/150.0
60	120	+85/-100		65.0/78.0		90.0/150.0
66	120	-		65.0/78.0		90.0/150.0
72	120	-		65.0/78.0		90.0/150.0
36	126	-		65.0/78.0		85.0/102.0
42	126	-		65.0/78.0		85.0/102.0
48	126	-		65.0/78.0		85.0/102.0
54	126	-		65.0/78.0		85.0/102.0
60	126	-		65.0/78.0		85.0/102.0
66	126	-		65.0/78.0		85.0/102.0
36	132	-		65.0/78.0		85.0/102.0
42	132	-		65.0/78.0		85.0/102.0
48	132	-		65.0/78.0		85.0/102.0
54	132	-		65.0/78.0		85.0/102.0
60	132	-		65.0/78.0		85.0/102.0
66	132	-		65.0/78.0		85.0/102.0
36	138	-		65.0/78.0		85.0/102.0
42	138	-		65.0/78.0		85.0/102.0
48	138	-		65.0/78.0		85.0/102.0
54	138	-		65.0/78.0		85.0/102.0
60	138	-		65.0/78.0		85.0/102.0

DESIGN LOAD CAPACITY - PSF						
SGD PANEL SIZES		LEVEL 1		LEVEL 2		LEVEL 3
		(STD INTERLOCK W/ REINF.)		(BELLY INTERLOCK W/O REINF.)		(BELLY INTERLOCK W/ REINF.)
AVE. PANEL WIDTH	DOOR HEIGHT	PSF	PSF	PSF	PSF	PSF
(IN)	(IN)			+/-		+/-
36	144	-		65.0/78.0		85.0/102.0
42	144	-		65.0/78.0		85.0/102.0
48	144	-		65.0/78.0		85.0/102.0
54	144	-		65.0/78.0		85.0/102.0
60	144	-		65.0/78.0		85.0/102.0



AVE. PANEL WIDTH =
 FRAME WIDTH
 # OF PANELS

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MIRAMAR, FL. 33027
P. 305.271.0113
www.MCYEngineering.com
mcycy@mcycyengineering.com

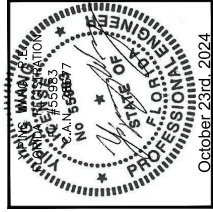
ES-SGDD2020 SLIDING GLASS DOOR (LMI & SMI)
ES WINDOWS, INC.
10653 NE Quaybridge Ct.
Miami, FL 33138
TEL. (305) 624-7775

Rev. No.	Date	Drawn By	Description
Rev.	10.08.2024	James	REVISION

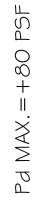
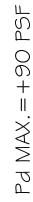
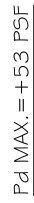
AD16-29

K2

Sheet No.
16 OF 59



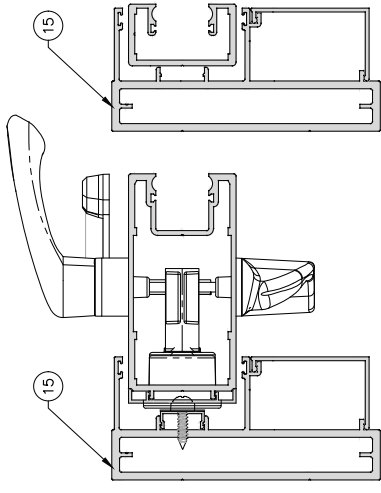
October 23rd, 2024



2 TRACK FREE STANDING JAMB CAPACITY - PSF									
SGD PANEL SIZES		JAMB W/O REINF. (J1)		JAMB W/ ALUM REINF. (J2)		JAMB W/ STEEL REINF. (J2S)			
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	PSF	PSF	PSF	PSF	PSF	PSF		
60	84	65	77	85	100	85	100	-	-
66		65	73	85	100	85	100	-	-
72		65	71	85	100	85	100	-	-
78		65	69	85	100	85	100	-	-
84	90	65	66	85	100	85	100	-	-
90		65	66	85	100	85	100	-	-
96		62	62	85	98	85	100	-	-
102		59	59	85	94	85	100	-	-
108	96	57	57	85	91	85	100	-	-
114		56	56	85	90	85	100	-	-
120		56	56	85	90	85	100	-	-
126		53	53	85	84	85	100	-	-
132	102	50	50	80	80	85	96	-	-
138		48	48	64	64	65	78	-	-
144		47	47	62	62	65	78	-	-
150		45	45	60	60	65	78	-	-
156	108	43	43	57	57	65	78	-	-
162		42	42	55	55	65	78	-	-
168		40	40	53	53	65	77	-	-
174		38	38	51	51	65	77	-	-
180	114	36	36	49	49	65	77	-	-
186		35	35	48	48	65	77	-	-
192		34	34	47	47	65	77	-	-
198		33	33	46	46	65	77	-	-
204	120	32	32	45	45	65	77	-	-
210		31	31	44	44	65	77	-	-
216		30	30	43	43	65	77	-	-
222		29	29	42	42	65	77	-	-
228	126	28	28	41	41	65	77	-	-
234		27	27	40	40	65	77	-	-
240		26	26	39	39	65	77	-	-
246		25	25	38	38	65	77	-	-
252	132	24	24	37	37	65	77	-	-
258		23	23	36	36	65	77	-	-
264		22	22	35	35	65	77	-	-
270		21	21	34	34	65	77	-	-
276	138	20	20	33	33	65	77	-	-
282		19	19	32	32	65	77	-	-
288		18	18	31	31	65	77	-	-
294		17	17	30	30	65	77	-	-
300	144	16	16	29	29	65	77	-	-
306		15	15	28	28	65	77	-	-
312		14	14	27	27	65	77	-	-
318		13	13	26	26	65	77	-	-
324	150	12	12	25	25	65	77	-	-
330		11	11	24	24	65	77	-	-
336		10	10	23	23	65	77	-	-
342		9	9	22	22	65	77	-	-
348	156	8	8	21	21	65	77	-	-
354		7	7	20	20	65	77	-	-
360		6	6	19	19	65	77	-	-
366		5	5	18	18	65	77	-	-

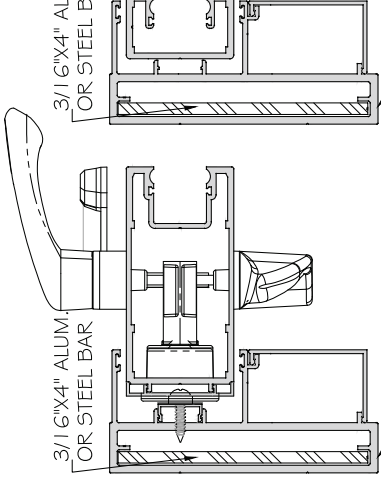
2 TRACK FREE STANDING JAMB CAPACITY - PSF									
SGD PANEL SIZES		JAMB W/O REINF. (J1)		JAMB W/ ALUM REINF. (J2)		JAMB W/ STEEL REINF. (J2S)			
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	PSF	PSF	PSF	PSF	PSF	PSF		
36	120	54	54	85	85	85	85	100	-
42		47	47	74	74	74	74	85	89
48		42	42	66	66	66	66	79	79
54		37	37	59	59	59	59	72	72
60	126	34	34	54	54	54	54	66	66
66		32	32	42	42	42	42	61	61
72		30	30	39	39	39	39	57	57
78		29	29	36	36	36	36	55	55
84	132	28	28	34	34	34	34	53	53
90		27	27	33	33	33	33	51	51
96		26	26	32	32	32	32	50	50
102		25	25	31	31	31	31	49	49
108	138	24	24	30	30	30	30	48	48
114		23	23	29	29	29	29	47	47
120		22	22	28	28	28	28	46	46
126		21	21	27	27	27	27	45	45
132	144	20	20	26	26	26	26	44	44
138		19	19	25	25	25	25	43	43
144		18	18	24	24	24	24	42	42
150		17	17	23	23	23	23	41	41
156	150	16	16	22	22	22	22	40	40
162		15	15	21	21	21	21	39	39
168		14	14	20	20	20	20	38	38
174		13	13	19	19	19	19	37	37
180	156	12	12	18	18	18	18	36	36
186		11	11	17	17	17	17	35	35
192		10	10	16	16	16	16	34	34
198		9	9	15	15	15	15	33	33
204	162	8	8	14	14	14	14	32	32
210		7	7	13	13	13	13	31	31
216		6	6	12	12	12	12	30	30
222		5	5	11	11	11	11	29	29
228	168	4	4	10	10	10	10	28	28
234		3	3	9	9	9	9	27	27
240		2	2	8	8	8	8	26	26
246		1	1	7	7	7	7	25	25

$$\text{AVE. PANEL WIDTH} = \frac{\text{FRAME WIDTH}}{\# \text{ OF PANELS}}$$



JAMB W/ LOCK STILE
UNREINF.

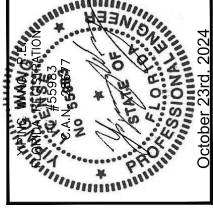
JAMB W/ FIX STILE
UNREINF.

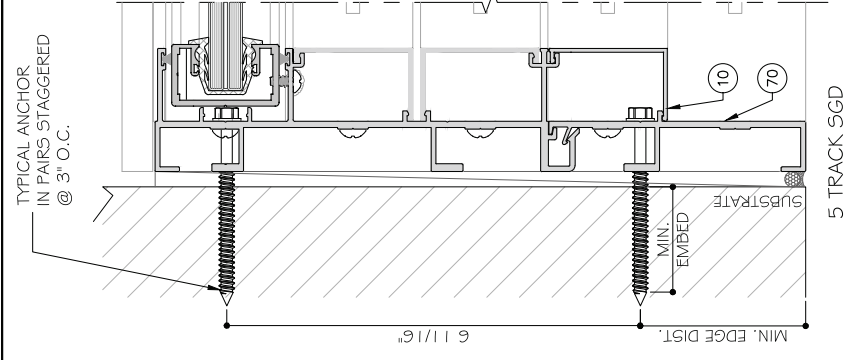


JAMB W/ LOCK STILE
REINF.

JAMB W/ FIX STILE
REINF.

NOTE: STILE SHOWN FOR
LAMINATED GLASS OPTION ONLY.
CHART COVERS BOTH INSULATED
LAMINATED AND LAMINATED GLASS
OPTIONS.



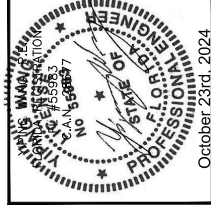


5 TRACK SGD

MIN. EDGE DISTANCE: CONCRETE $2\frac{1}{4}"$ WOOD: 1" METAL: 1"

[illegible]

NOTE:
WOOD BUCKS/ METAL STRUCTURES BY OTHERS
MUST BE PROPERLY SECURED TO SUPPORT
LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURES



October 23rd, 2024

C4 - A CLUSTER OF (4) TYPE "C" ANCHORS AT HEAD
 C6 - A CLUSTER OF (6) TYPE "C" ANCHORS AT HEAD
 D4 - A CLUSTER OF (4) TYPE "D" ANCHORS AT HEAD
 D6 - A CLUSTER OF (6) TYPE "D" ANCHORS AT HEAD
 E4 - A CLUSTER OF (4) TYPE "E" ANCHORS AT HEAD
 E6 - A CLUSTER OF (6) TYPE "E" ANCHORS AT HEAD

FOR ANCHOR TYPES & LAYOUT, SEE SHEET AG

FOR ANCHOR TYPES & LAYOUT, SEE SHEET AG

SILL ANCHOR CAPACITY - P5F				SILL ANCHOR CAPACITY - P5F			
SGD PANEL SIZES		DOOR HEIGHT		ANCHOR TYPE "A" / "B"		DOOR HEIGHT	
AVE. PANEL WIDTH	(IN)	A4 / B4	A6 / B6	A8 / B8		A4 / B4	A6 / B6
(IN)		+/-	+/-	+/-		+/-	+/-
36	84	150.0	150.0	150.0	114	122.3	150.0
42		150.0	150.0	150.0		108.2	150.0
48		146.8	150.0	150.0		97.9	146.8
54		137.4	150.0	150.0		90.0	135.0
60		130.5	150.0	150.0		83.9	125.8
66	90	125.6	150.0	150.0	120	79.1	118.6
72		122.3	150.0	150.0		75.3	112.9
78		120.5	150.0	150.0		115.1	150.0
84		119.8	150.0	150.0		101.7	150.0
36		150.0	150.0	150.0		91.8	137.6
42	96	145.9	150.0	150.0	126	84.2	126.3
48		133.5	150.0	150.0		78.3	117.4
54		124.3	150.0	150.0		73.6	110.4
60		117.4	150.0	150.0		69.9	104.9
66		112.4	150.0	150.0		108.7	150.0
72	102	108.7	150.0	150.0	132	95.9	143.8
78		106.3	150.0	150.0		86.4	129.5
84		104.9	150.0	150.0		79.1	118.6
36		150.0	150.0	150.0		73.4	110.1
42		134.2	150.0	150.0		68.9	103.3
48	108	122.3	150.0	150.0	144	65.2	97.9
54		113.5	150.0	150.0		103.0	150.0
60		106.8	150.0	150.0		90.7	136.0
66		101.7	150.0	150.0		81.6	122.3
72		97.9	146.8	150.0		74.6	111.8
78	110	95.1	142.6	150.0	138	69.1	103.6
84		93.2	139.8	150.0		64.7	97.1
36		139.8	150.0	150.0		97.9	146.8
42		124.3	150.0	150.0		86.0	129.1
48		112.9	150.0	150.0		77.3	115.9
54	116	104.4	150.0	150.0	148	70.5	105.8
60		97.9	146.8	150.0		65.2	97.9
66		92.8	139.3	150.0		93.2	139.8
72		89.0	133.5	150.0		81.8	122.8
78		86.0	129.1	150.0		73.4	110.1
84	120	83.9	125.8	150.0	150	66.9	100.4
36		130.5	150.0	150.0		61.8	92.7
42		115.7	150.0	150.0			
48		104.9	150.0	150.0			
54		96.7	145.0	150.0			
60	126	90.3	135.5	150.0	155		
66		85.4	128.1	150.0			
72		81.6	122.3	150.0			
78		78.6	117.8	150.0			
84							

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ES-SGD2020 SLIDING GLASS DOOR (LM1 & SM1)

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mcy@mcyengIneerIng.com
P. 305.271.0117

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MIRAMAR, FL 33027

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GLAZING CONSULTANTS

M

C

E

Rev. No. 10/08/2024
Drawn Date 10/08/2024
Scale
No. 10/08/2024
Description
Revision

Rev. No. 10/08/2024
Drawn Date 10/08/2024
Scale
No. 10/08/2024
Description
Revision

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Sheet No.
A5
October 23rd, 2024

PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. 96887
JAMES M. WARR
10/08/2024

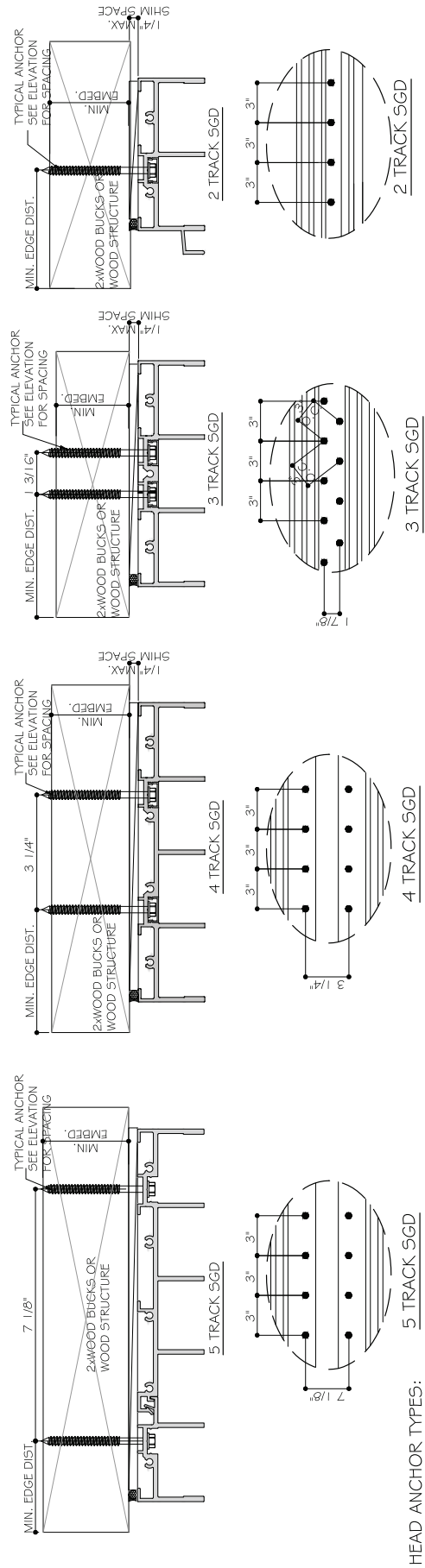
FOR ANCHOR TYPES & LAYOUT, SEE SHEET A8

A4 - A CLUSTER OF (4) TYPE "A" ANCHORS AT SILL
A6 - A CLUSTER OF (6) TYPE "A" ANCHORS AT SILL
A8 - A CLUSTER OF (8) TYPE "A" ANCHORS AT SILL
B4 - A CLUSTER OF (4) TYPE "B" ANCHORS AT SILL
B6 - A CLUSTER OF (6) TYPE "B" ANCHORS AT SILL
B8 - A CLUSTER OF (8) TYPE "B" ANCHORS AT SILL

STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

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001	10.05.2024	James	REVISION

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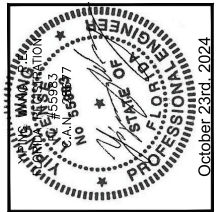


IN 10" C=3000 PSI CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

TYPE "BB": 1/4" DIA. ULTRACON+ BY DEWALT (F_U=164 KSI, F_y=148 KSI)
1 1/2" MIN. EMBED INTO 2XWOOD BUCKS OR WOOD STRUCTURE
SG=0.55 MIN.
OR THRU 1BY OR 2BY WOOD BUCK WITH 1 3/4" MIN. EMBED
INTO F_C=3000 PSI CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

TYPE "CC": 5/16" DIA. ULTRACON BY DEWALT (F_U=177 KSI, F_y=155 KSI)
1 1/2" MIN. EMBED INTO 2XWOOD BUCKS OR WOOD STRUCTURE
SG=0.55 MIN.
OR THRU 1BY OR 2BY WOOD BUCK WITH 1 3/4" MIN. EMBED
INTO F_C=3515 PSI CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

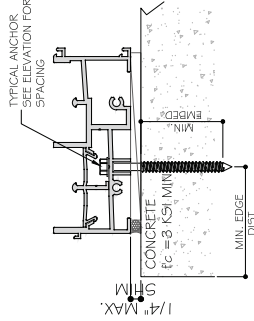
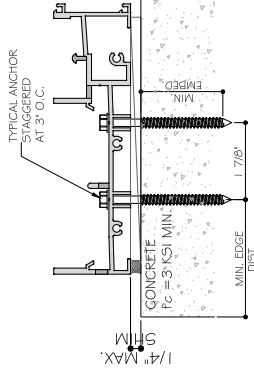
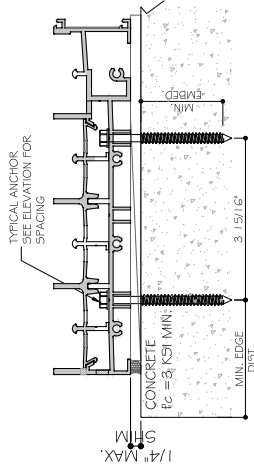
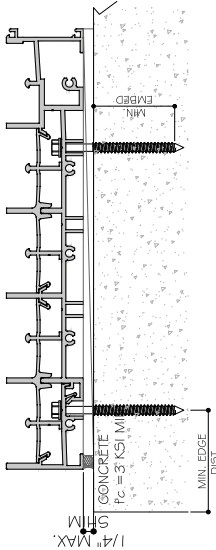
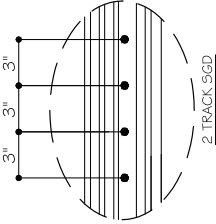
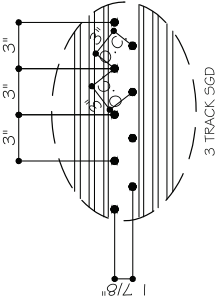
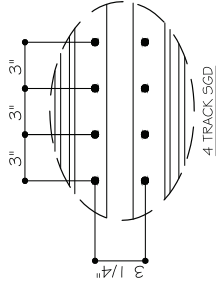
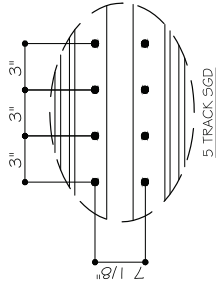
AA4 - A CLUSTER OF (4) TYPE "AA" ANCHORS AT HEAD
AA6 - A CLUSTER OF (6) TYPE "AA" ANCHORS AT HEAD
AA8 - A CLUSTER OF (8) TYPE "AA" ANCHORS AT HEAD
AA10 - A CLUSTER OF (10) TYPE "AA" ANCHORS AT HEAD
BB4 - A CLUSTER OF (4) TYPE "BB" ANCHORS AT HEAD
BB6 - A CLUSTER OF (6) TYPE "BB" ANCHORS AT HEAD
BB8 - A CLUSTER OF (8) TYPE "BB" ANCHORS AT HEAD
BB10 - A CLUSTER OF (10) TYPE "BB" ANCHORS AT HEAD
CC4 - A CLUSTER OF (4) TYPE "CC" ANCHORS AT HEAD
CC6 - A CLUSTER OF (6) TYPE "CC" ANCHORS AT HEAD
CC8 - A CLUSTER OF (8) TYPE "CC" ANCHORS AT HEAD
CC10 - A CLUSTER OF (10) TYPE "CC" ANCHORS AT HEAD



SILL ANCHOR TYPES:

TYPE "A": 1/4" DIA. Kwikon ($f_u=138$ KSI, $f_y=137$ KSI)
1 3/4" MIN. EMBED INTO $f_c=3$ KSI MIN. CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

TYPE "B": 1/4" DIA. ULTRACON+ ($f_u=164$ KSI, $f_y=148$ KSI)
1 3/4" MIN. EMBED INTO $f_c=3$ KSI MIN. CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

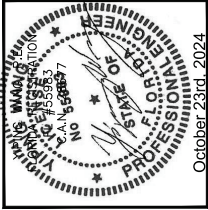


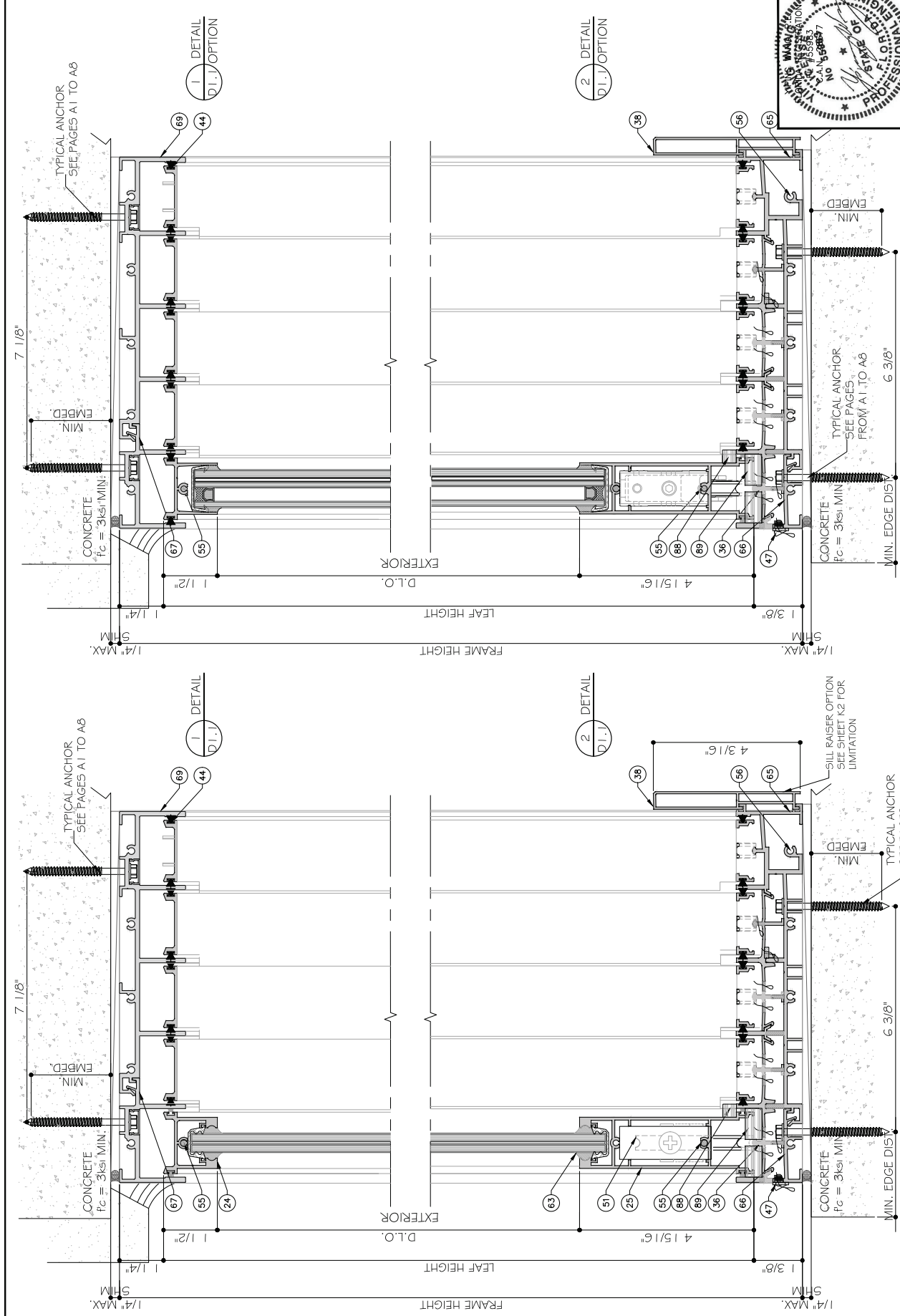
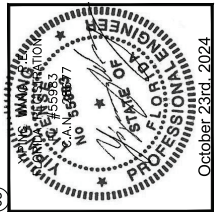
5 TRACK SGD

4 TRACK SGD

3 TRACK SGD

2 TRACK SGD

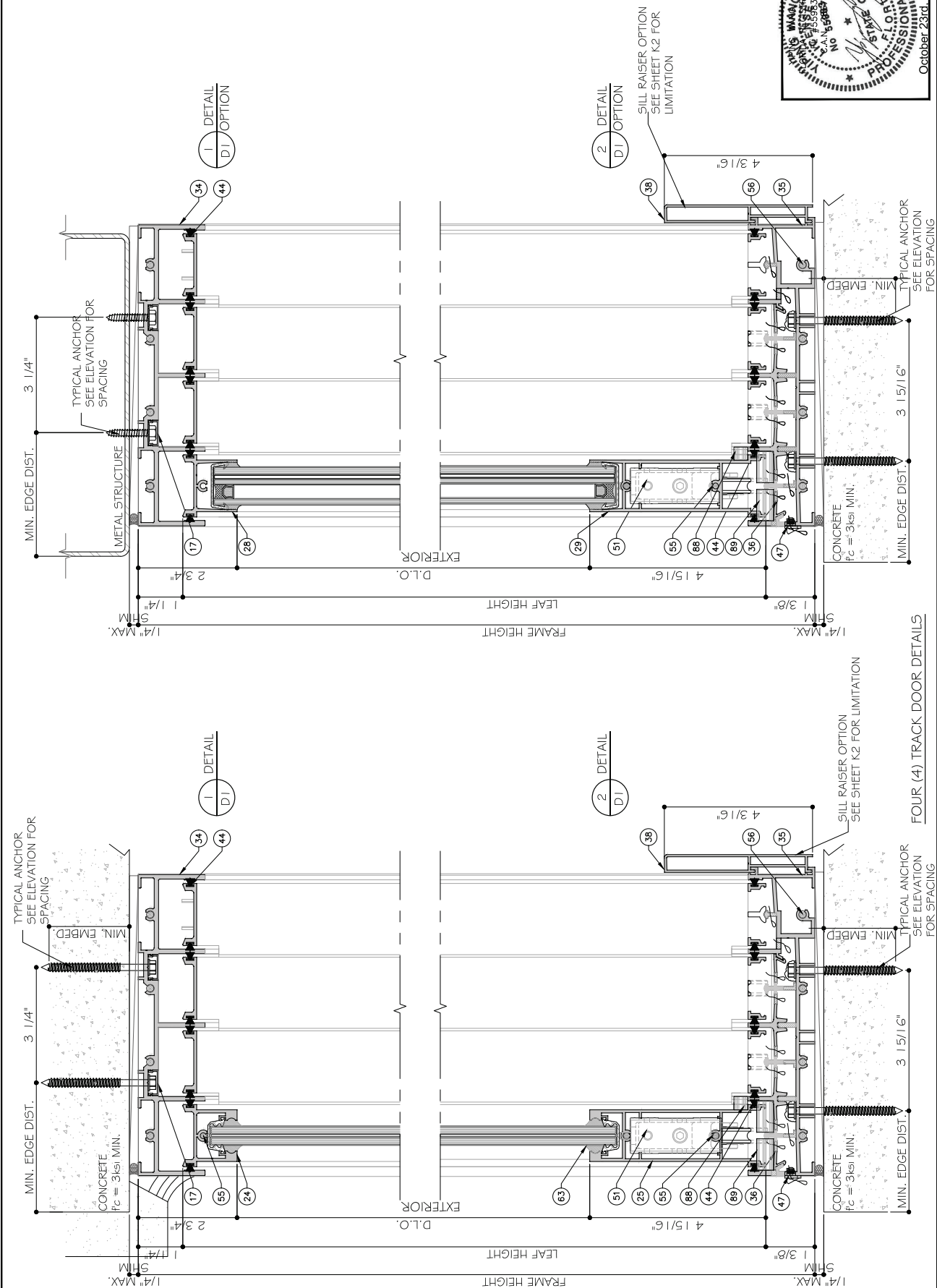




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10653 NE Quaybridge Ct.
Miami, FL 33138
TEL. (305) 624-7775

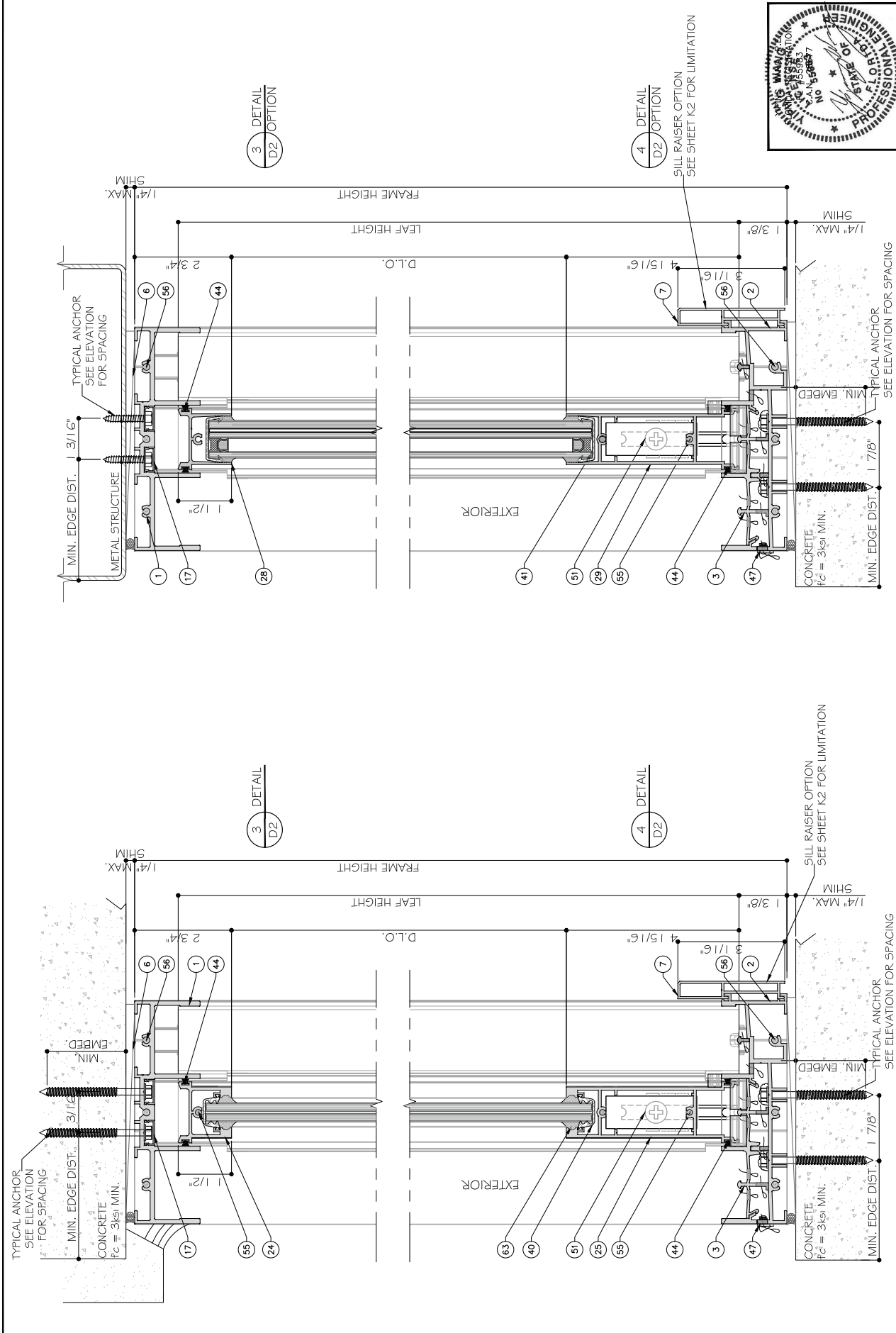
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027 P: 305.271.0117
www.MCYEngineering.com
mcy@mcyengineering.com



Rev. No.	Date	Drawn By	Description
R5	10.05.2024	James	REVISION

DRAWING NO.	AD16-29
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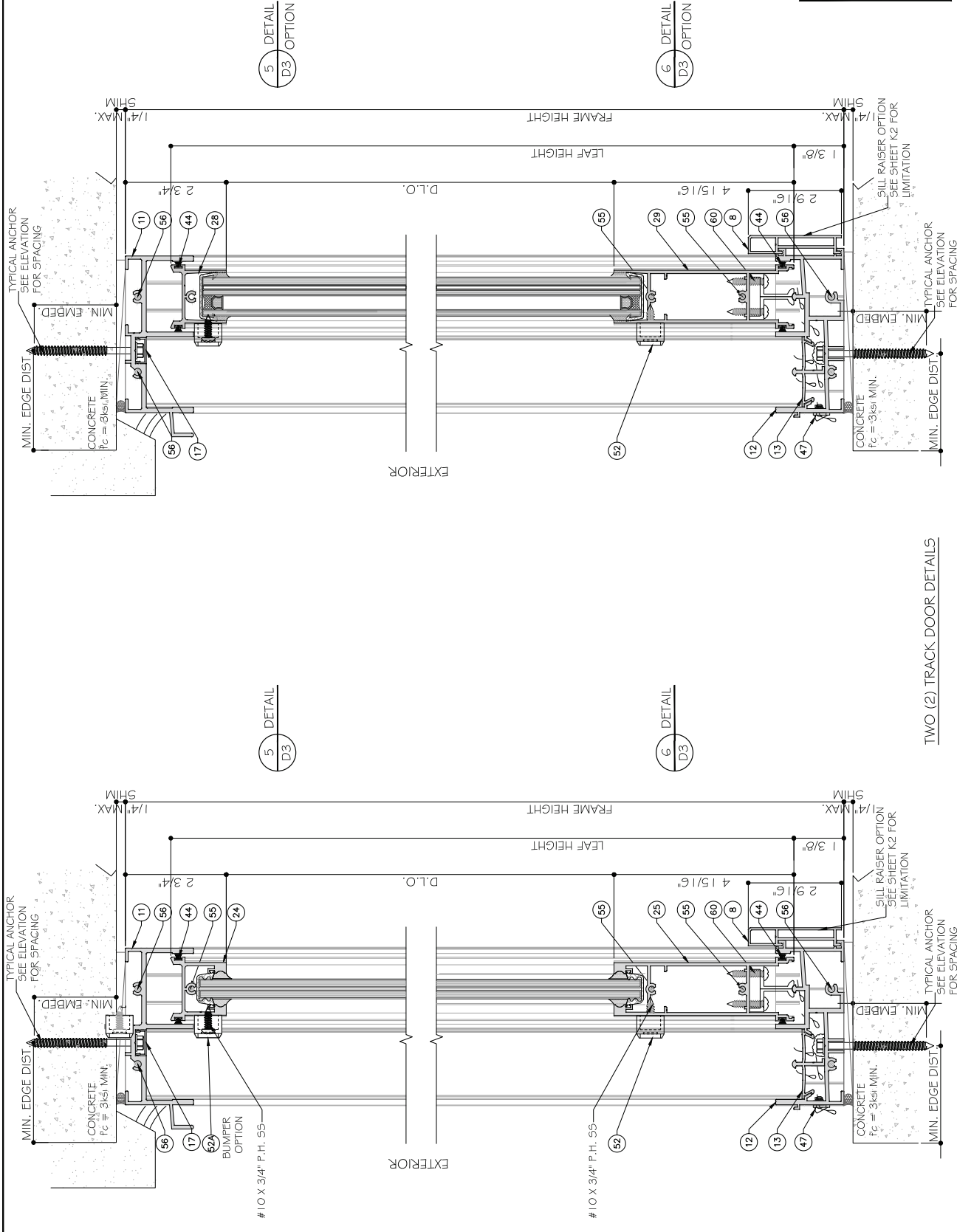
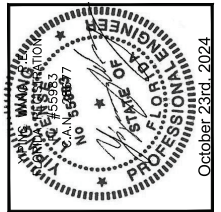
October 23rd, 2024

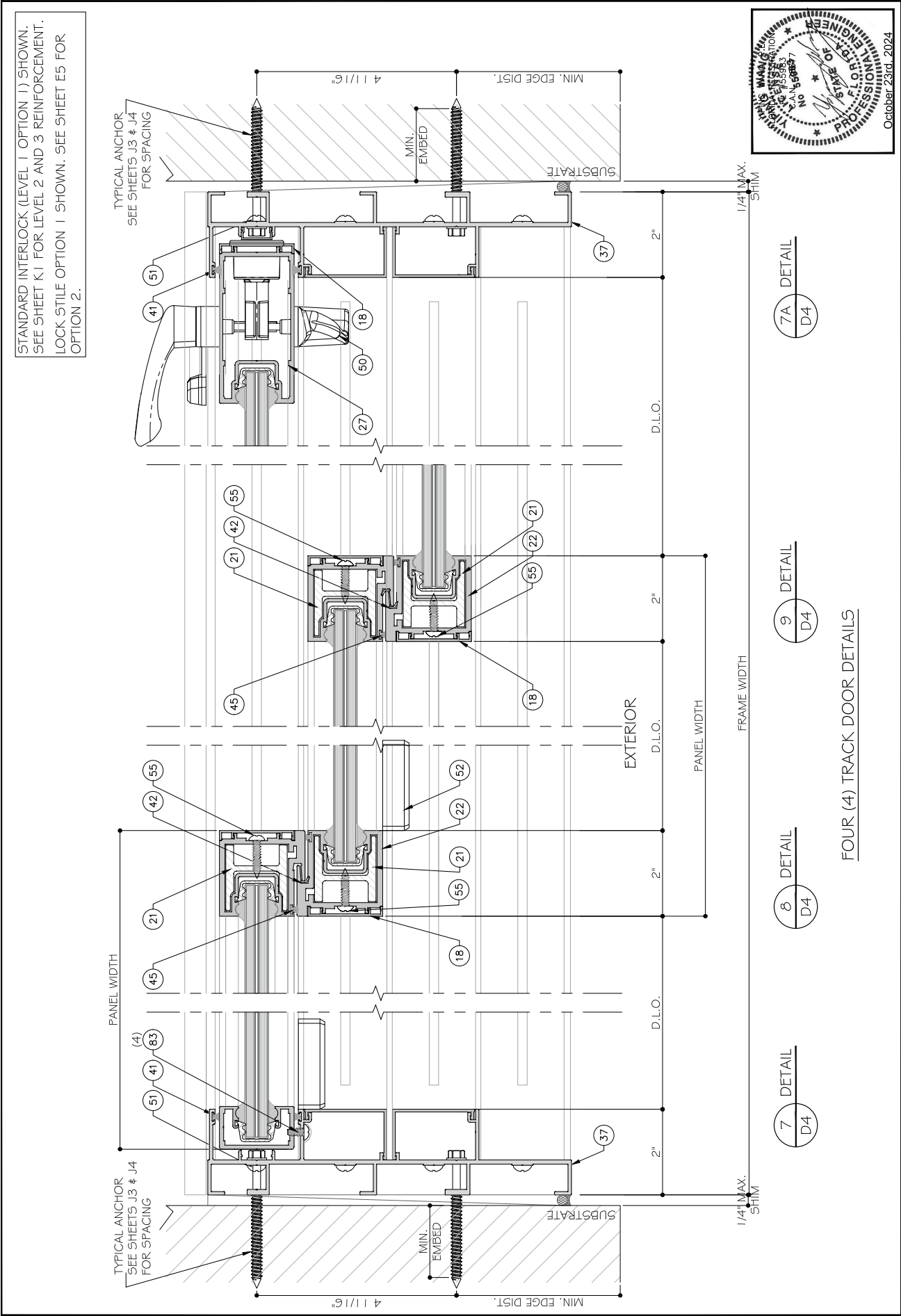


THREE (3) TRACK DOOR DETAILS

Rev. No.	Date	Drawn By	Description
R5	10.05.2024	James	REVISION

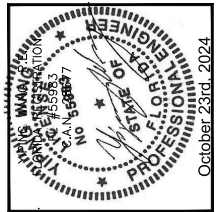
DRAWING NO.	AD16-29
	D3
Sheet No.	32 OF 59





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DRAWING NO.	AD16-29
D4.1	
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[illegible]

7A
D4.1
DETAIL

9
DETAIL
D4.1

8
DETAIL
D4.1

7 DETAIL
D4.1

FIVE (5) TRACK DOOR DETAILS

[illegible]

DRAWING NO.	AD16-29
D4.2	
Sheet No.	35 OF 59

[illegible]

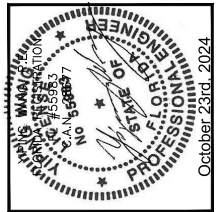
13A
DETAIL
D4.2

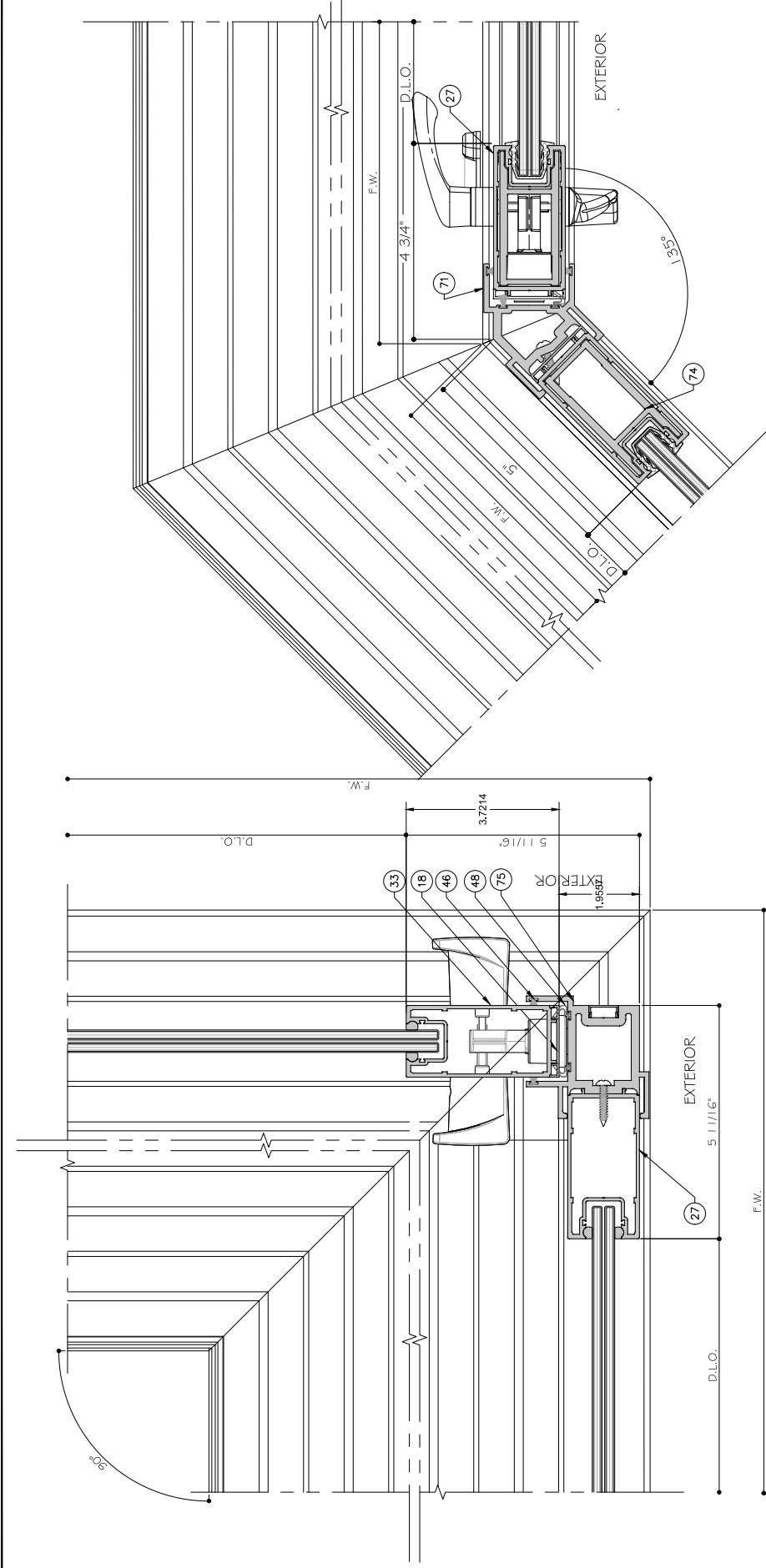
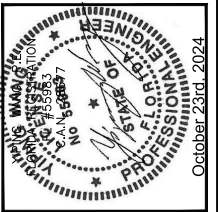
15
DETAIL

14
DETAIL

13
DETAIL

FIVE (5) TRACK DOOR DETAILS





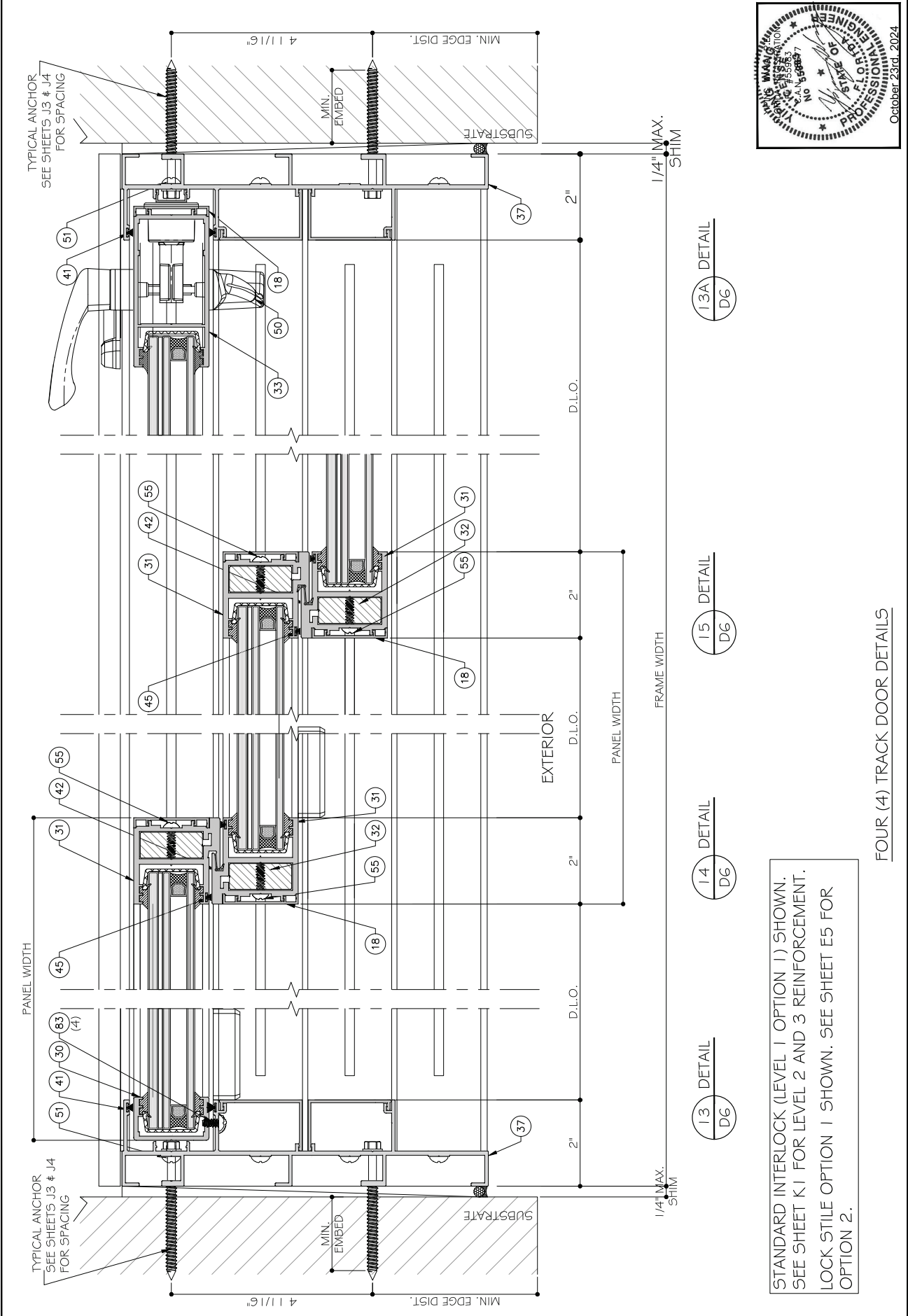
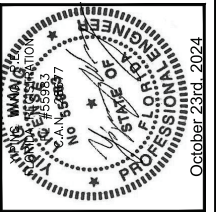
44 DETAIL
D4.5

43 DETAIL
D4.5

CORNER DETAILS

CORNERS CAN BE USED ON ALL TRACK CONFIGURATIONS

STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN. SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT. LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.

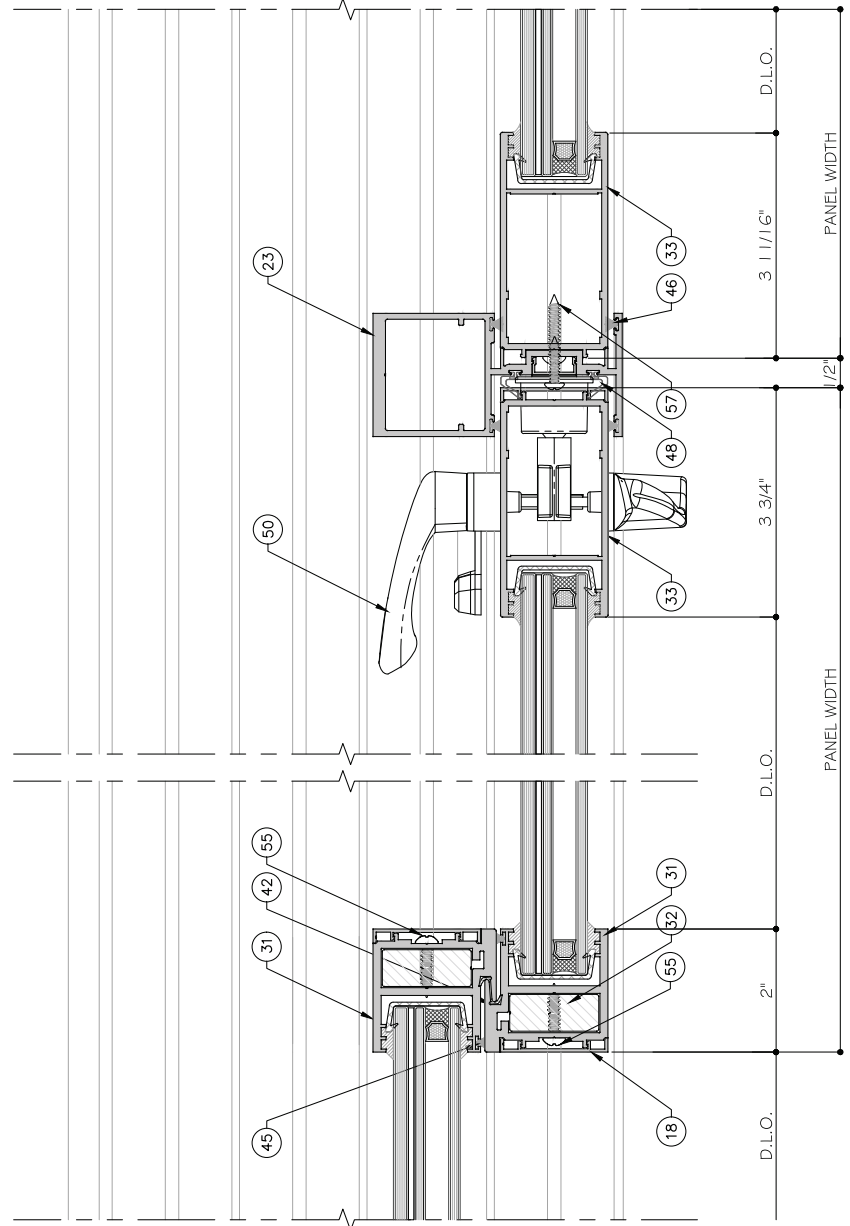
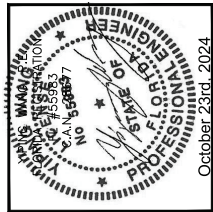


STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

FOUR (4) TRACK DOOR DETAILS

Rev. No.	Date	Drawn By	Description
R5	10.05.2024	James	REVISION

DRAWING NO.	AD16-29
D7	
Sheet No.	42 OF 59

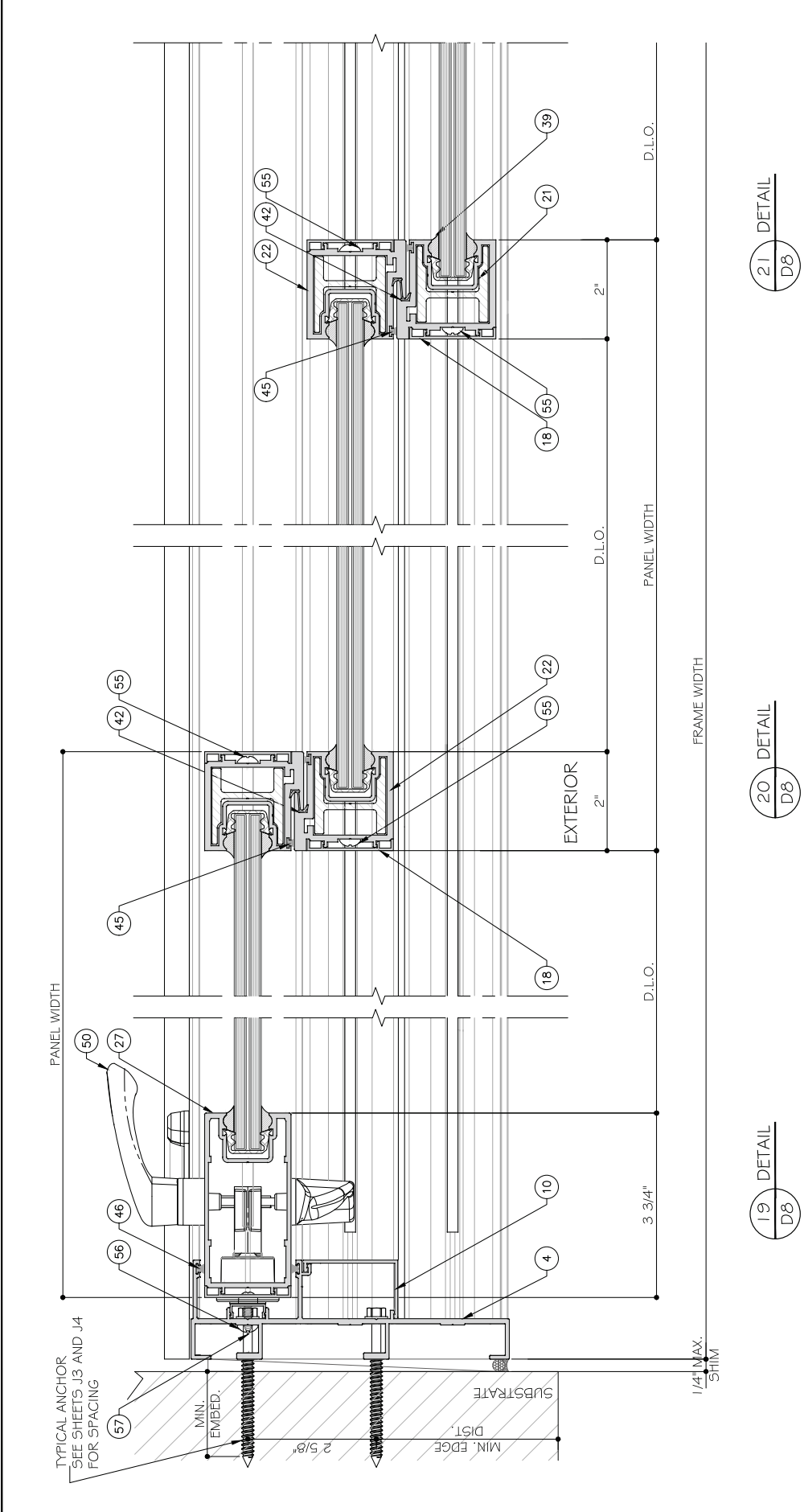
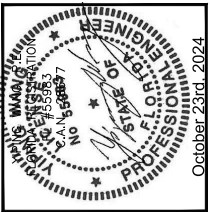


17 DETAIL
D7

16 DETAIL
D7

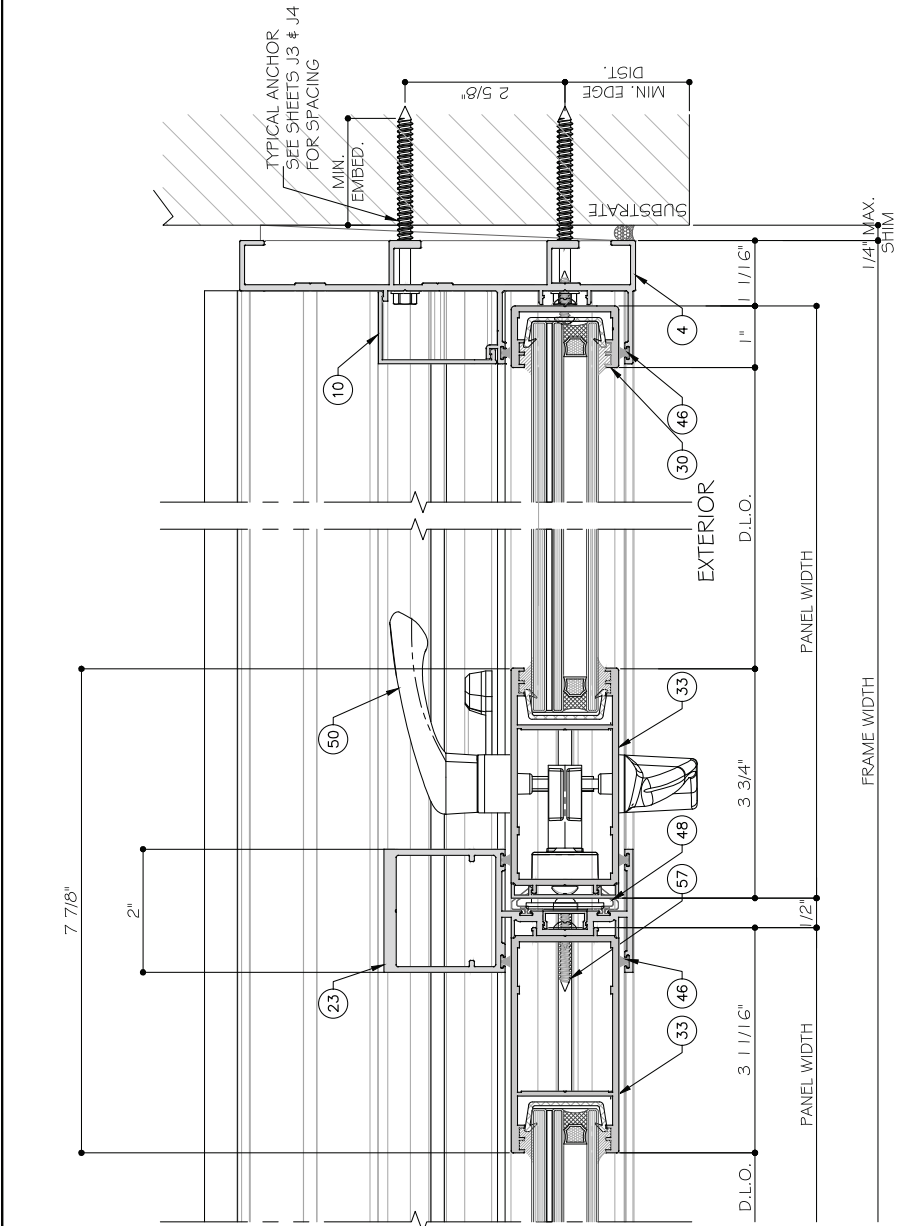
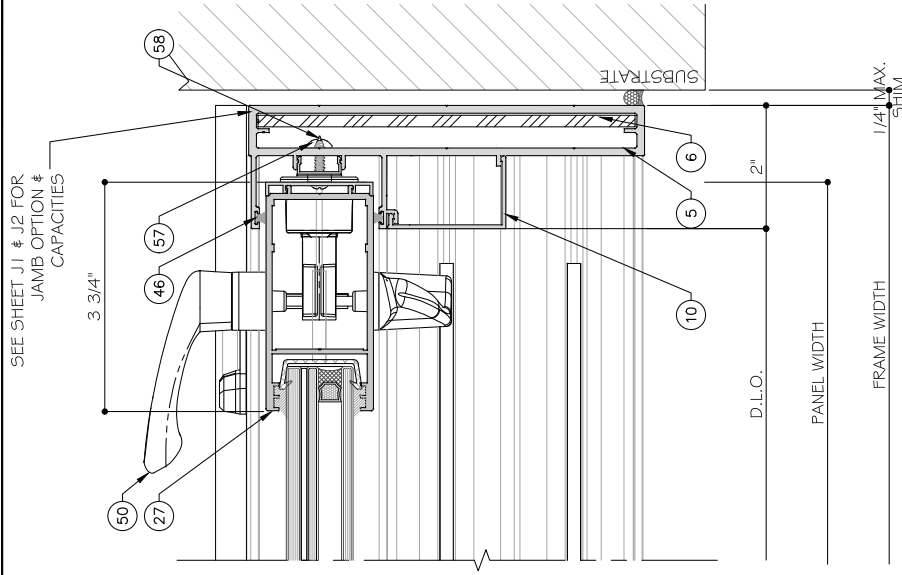
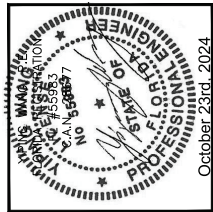
FOUR (4) TRACK DOOR DETAILS

STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.



STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

THREE (3) TRACK DOOR DETAILS

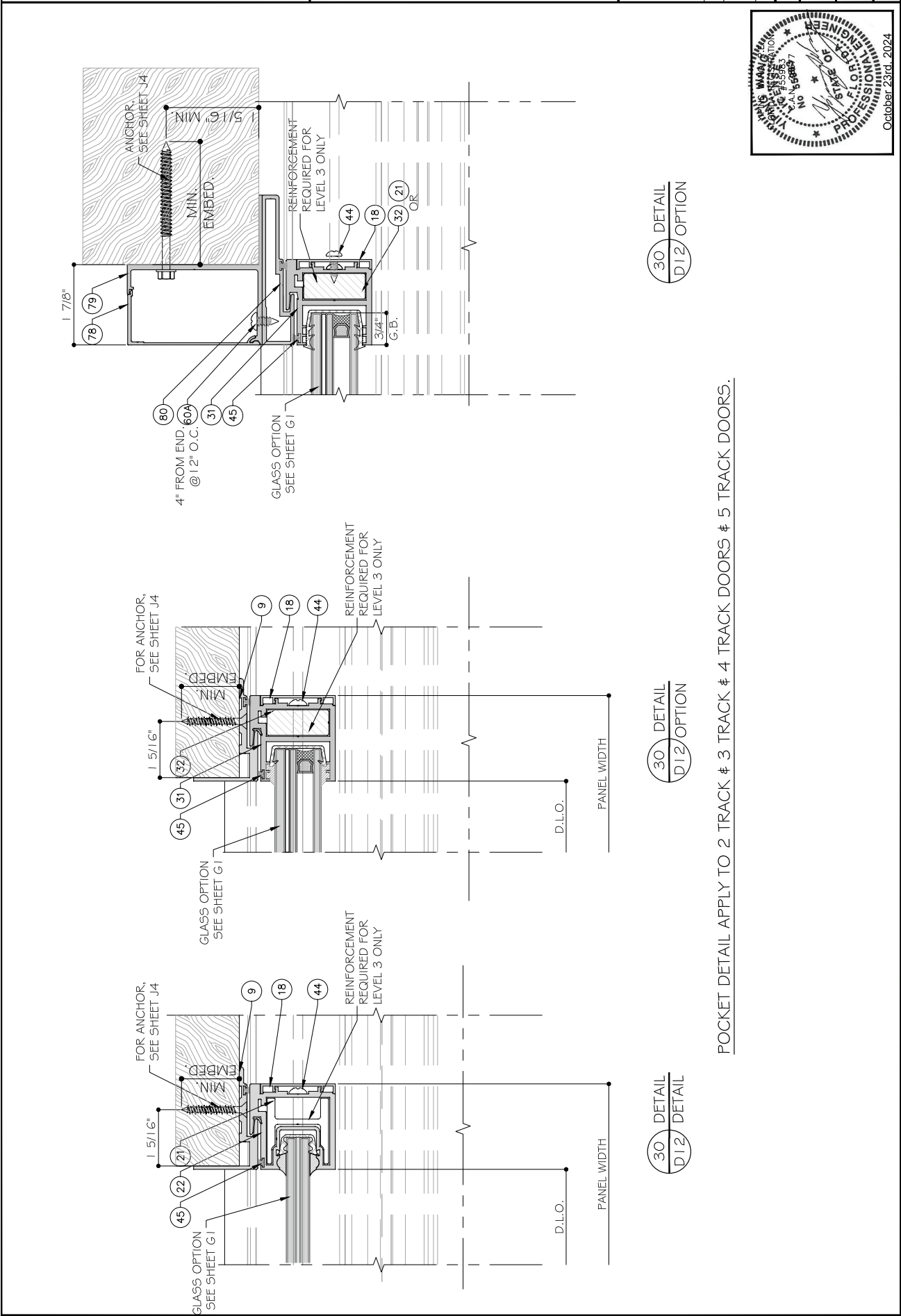


28 DETAIL
D11

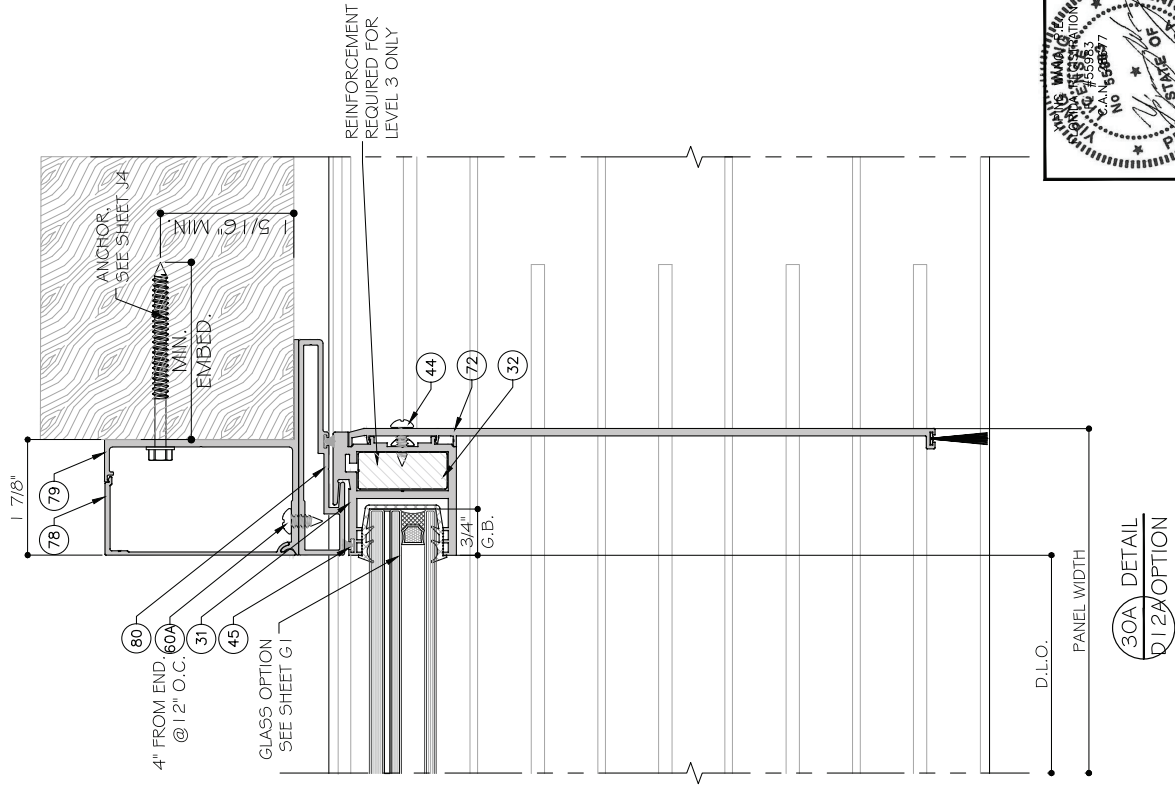
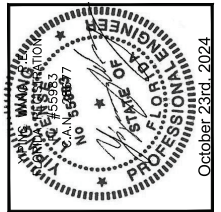
29 DETAIL
D11

LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

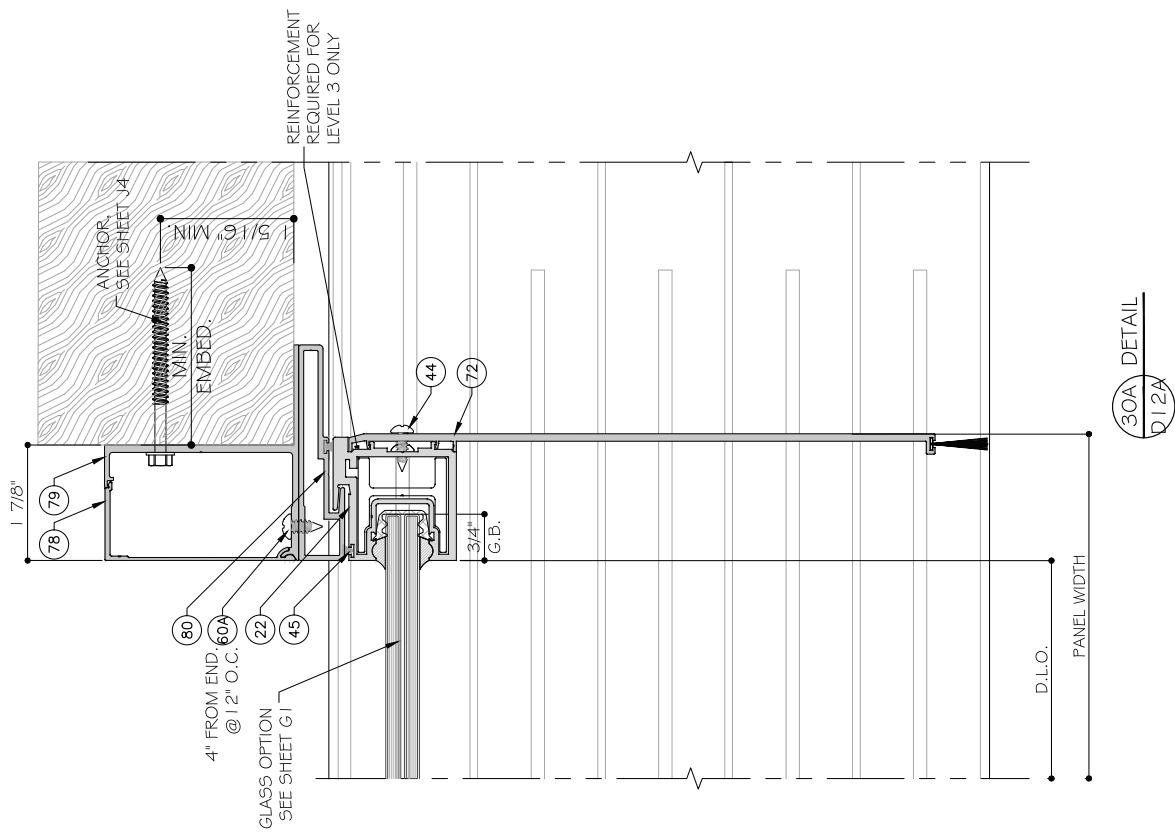
THREE (3) TRACK DOOR DETAILS



POCKET DETAIL APPLY TO 2 TRACK # 3 TRACK # 4 TRACK DOORS & 5 TRACK DOORS.



30A DETAIL
 D12A OPTION

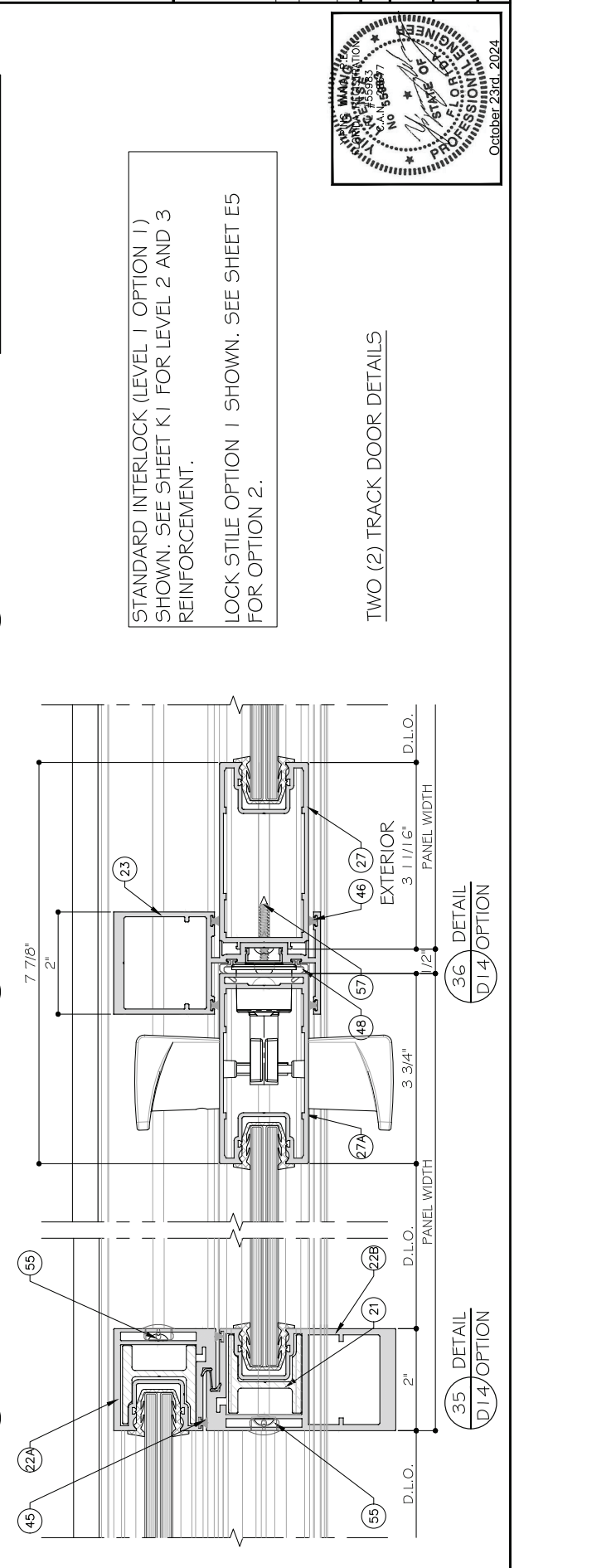
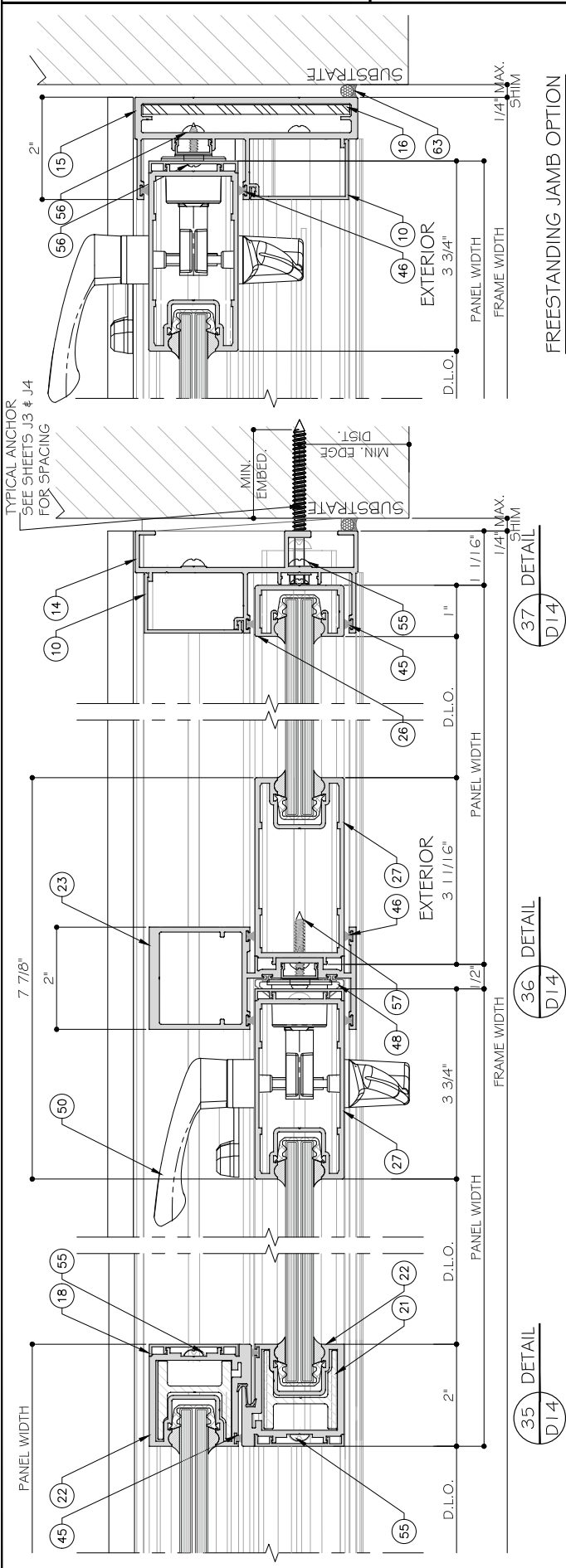


30A DETAIL
 D12A

POCKET DETAIL APPLY TO 2 TRACK & 3 TRACK & 4 TRACK DOORS & 5 TRACK DOORS.

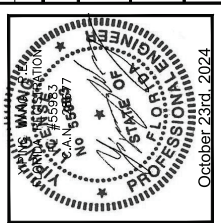


TWO (2) TRACK DOOR DETAILS

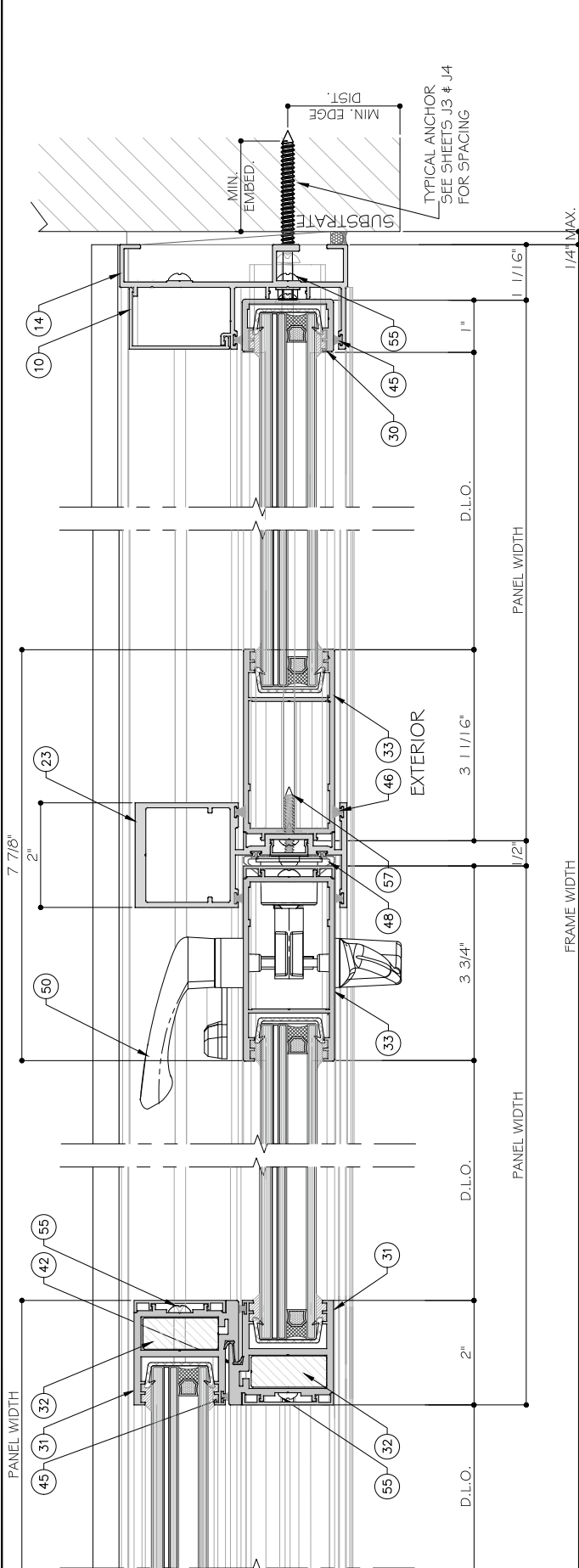


STANDARD INTERLOCK (LEVEL 1 OPTION 1)
SHOWN. SEE SHEET K1 FOR LEVEL 2 AND 3
REINFORCEMENT.

LOCK STILE OPTION 1 SHOWN. SEE SHEET E5
FOR OPTION 2.

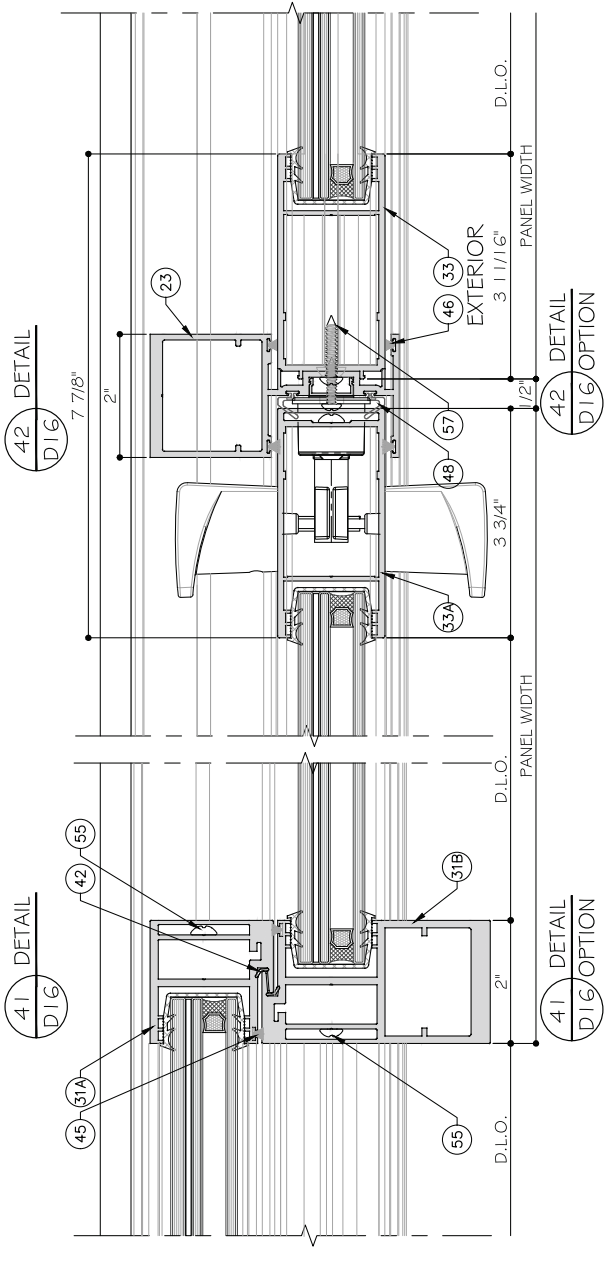
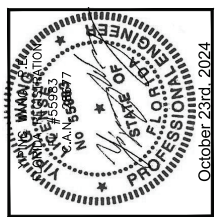


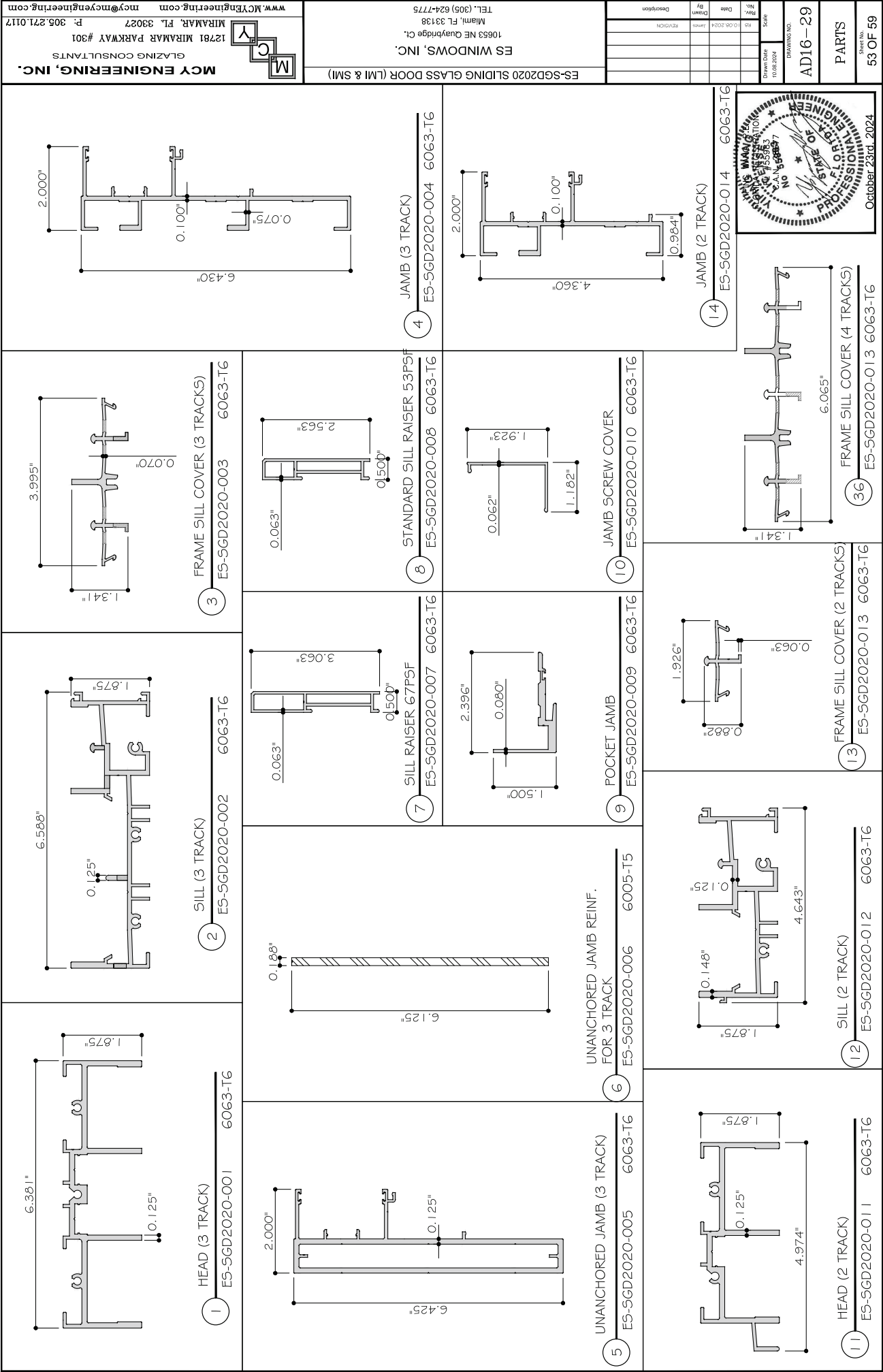
TWO (2) TRACK DOOR DETAILS

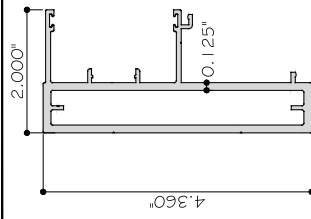


STANDARD INTERLOCK
(LEVEL 1 OPTION 1)
SHOWN. SEE SHEET K1 FOR
LEVEL 2 AND 3
REINFORCEMENT.
LOCK STILE OPTION 1
SHOWN. SEE SHEET E5
FOR OPTION 2.

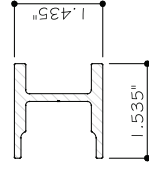
TWO (2) TRACK DOOR DETAILS





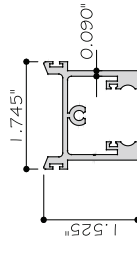


15 UNANCHORED JAMB (2 TRACK)
ES-SGD2020-015 6063-T6

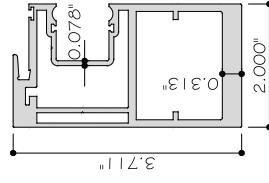


REINF. FOR INTERLOCK

21 ES-SGD2020-021 6005-T5



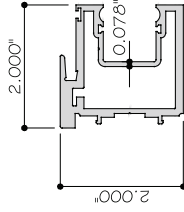
24 TOP RAIL FOR LAMINATED GLASS ES-SGD2020-024 6063-T6



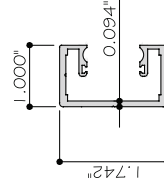
22B INTERLOCK HEAVY FOR LAMINATED
ES-SGD2020-085 6005-T5



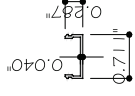
UN-ANCHORED JAMB REINF.
FOR 2 TRACK



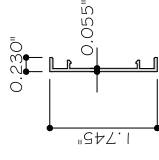
22 INTERLOCK FOR LAMINATED GLASS
ES-SGD2020-022 60C3-T6



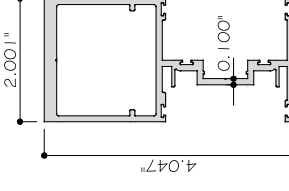
26 FIXED STILE FOR LAMINATED GLASS
ES-SGD2020-026 6063-T6



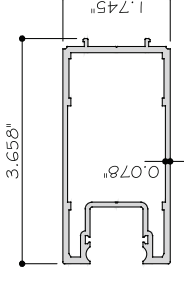
17 JAMB SCREW COVER
ES-6011 6063-T6



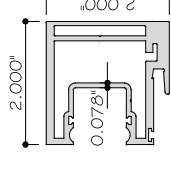
18 INTERLOCK AND LOCKSTILE SCREW COVER
E5-SGD2020-018 6063-T6



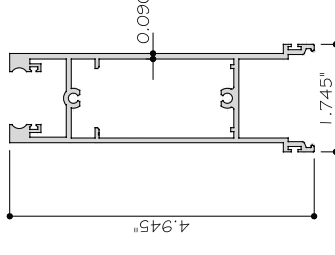
23
ASTRAL
ES-SGD2020-023 6063-16



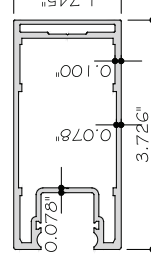
27 LOCK STILE FOR LAMINATED GLASS
ES-SGD2020-027 6063-T6



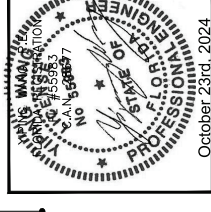
22A INTERLOCK FOR LAMINATED
ES-SGD2020-084 6005-T5

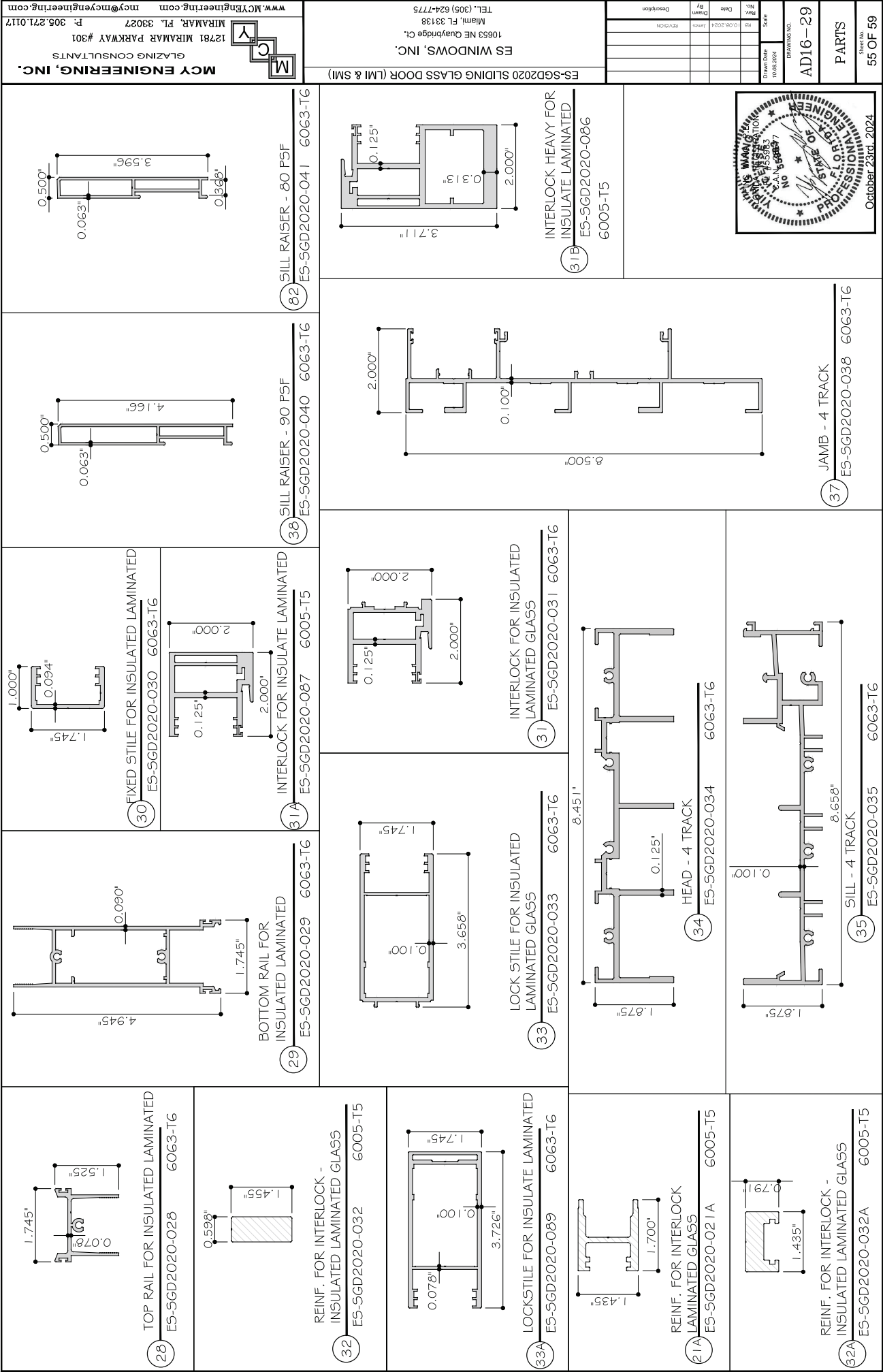


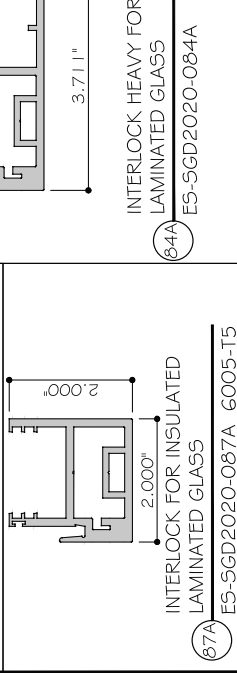
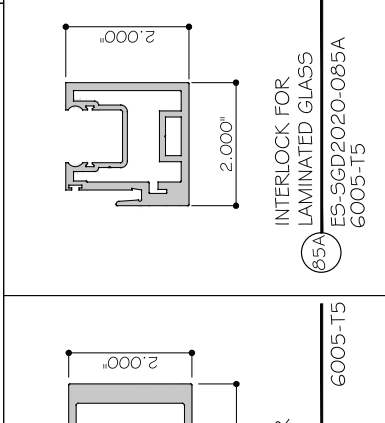
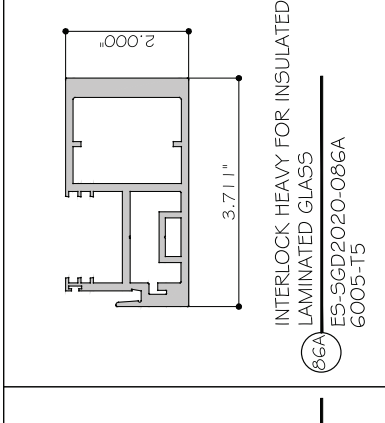
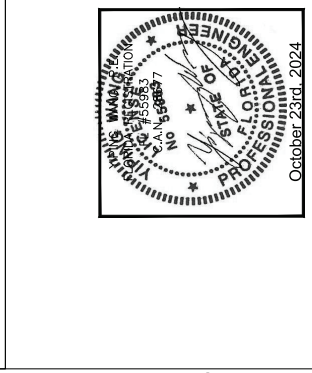
25 BOTTOM RAIL FOR LAMINATED GLASS ES-SGD2020-025 6063-T6



27A LOCKSTILE FOR LAMINATED
ES-SGD2020-088 6063-T6





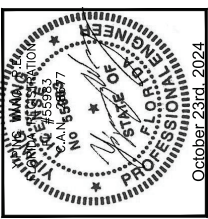


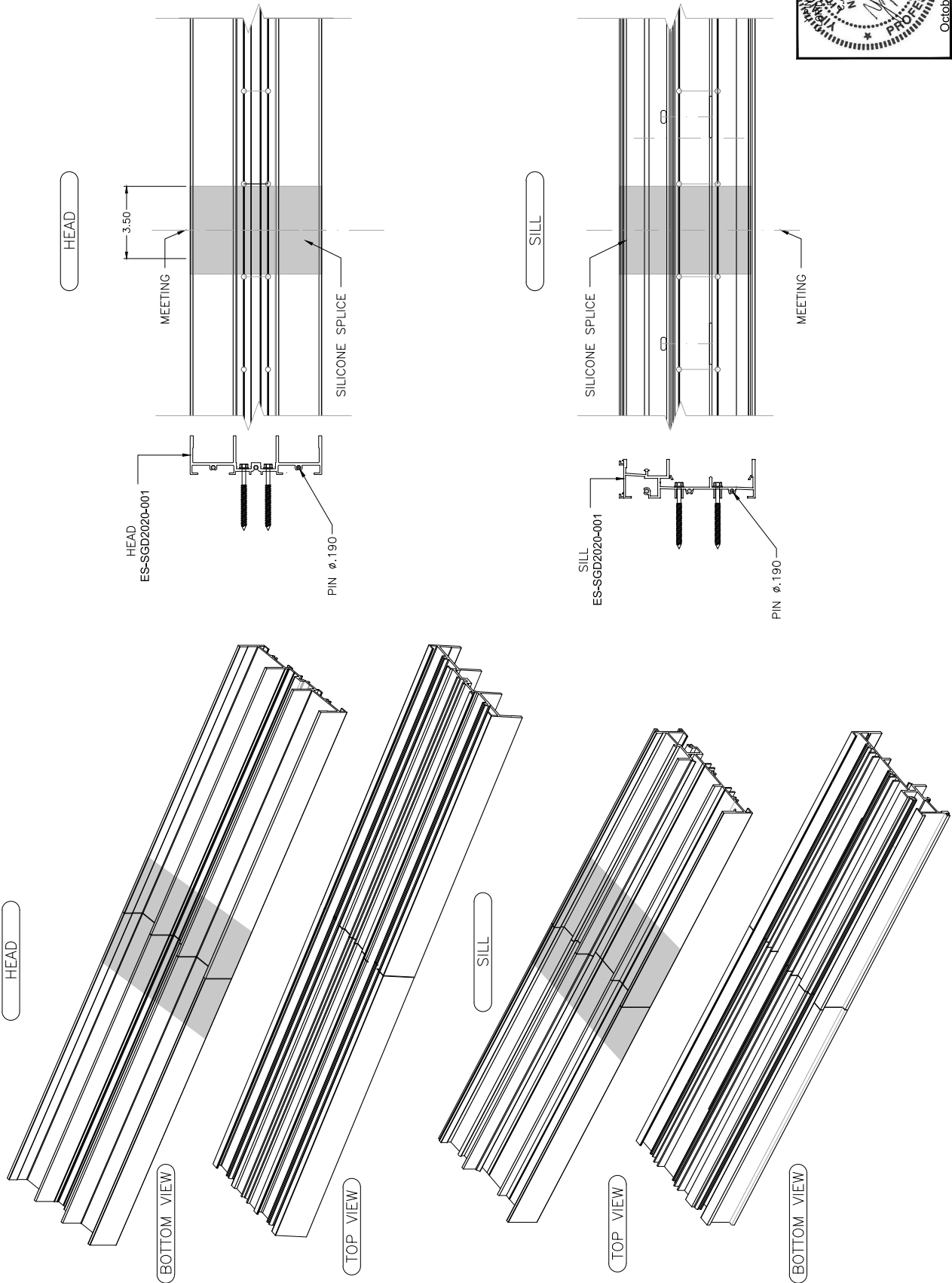
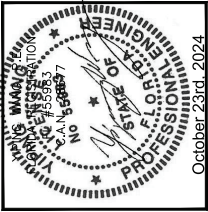
BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
1	E5-SGD2020-001	HEAD (3 TRACK)	6063-T6	-
2	E5-SGD2020-002	SILL (3 TRACK)	6063-T6	-
3	E5-SGD2020-003	FRAME SILL COVER	6063-T6	-
4	E5-SGD2020-004	JAMB (3 TRACK)	6063-T6	-
5	E5-SGD2020-005	FREESTANDING JAMB (3 TRACK)	6063-T6	-
6	E5-SGD2020-006	UN-ANCHORED JAMB REINFORCEMENT FOR 3 TRACK	6005-T5	-
7	E5-SGD2020-007	HI SILL RAISER 3-1/16" HEIGHT	6063-T6	-
8	E5-SGD2020-008	STANDARD SILL RAISER 2-9/16" HEIGHT	6063-T6	-
9	E5-SGD2020-009	POCKET JAMB	6063-T6	-
10	E5-SGD2020-010	JAMB SCREW COVER	6063-T6	-
11	E5-SGD2020-011	HEAD 2 TRACK	6063-T6	-
12	E5-SGD2020-012	SILL 2 TRACK	6063-T6	-
13	E5-SGD2020-013	FRAME SILL COVER	6063-T6	-
14	E5-SGD2020-014	JAMB (2 TRACK)	6063-T6	-
15	E5-SGD2020-015	FREESTANDING JAMB (2 TRACK)	6063-T6	-
16	E5-SGD2020-016	FREESTANDING JAMB REINFORCEMENT FOR 2 TRACK	6063-T6	-
17	E5-6011	JAMB SCREW COVER	6063-T6	-
18	E5-SGD2020-018	INTERLOCK AND LOCK STILE SCREW COVER	6063-T6	-
19	NOT USED	-	-	-
20	NOT USED	-	-	-
21	E5-SGD2020-021	REINFORCEMENT FOR INTERLOCK	6005-T5	-
21A	E5-SGD2020-021A	REINFORCEMENT FOR INTERLOCK LAMINATED GLASS	6005-T5	-
22	E5-SGD2020-022	INTERLOCK FOR LAMINATED GLASS	6005-T5	-
22A	E5-SGD2020-024	INTERLOCK FOR LAMINATED GLASS	6005-T5	-
22B	E5-SGD2020-025	INTERLOCK HEAVY FOR LAMINATED GLASS	6005-T5	-
23	E5-SGD2020-023	ASTRAGAL	6005-T5	-
24	E5-SGD2020-024	TOP RAIL FOR LAMINATED GLASS	6063-T6	-
25	E5-SGD2020-025	BOTTOM RAIL FOR LAMINATED GLASS	6063-T6	-
26	E5-SGD2020-026	FIXED STILE FOR LAMINATED GLASS	6063-T6	-
27	E5-SGD2020-027	LOCK STILE FOR LAMINATED GLASS	6063-T6	-
27A	E5-SGD2020-088	LOCK STILE FOR LAMINATED GLASS	6063-T6	-
28	E5-SGD2020-028	TOP RAIL FOR INSULATED LAMINATED GLASS	6063-T6	-
29	E5-SGD2020-029	BOTTOM RAIL FOR INSULATED GLASS	6063-T6	-
30	E5-SGD2020-030	FIXED STILE FOR INSULATED LAMINATED GLASS	6063-T6	-
31	E5-SGD2020-031	INTERLOCK FOR INSULATED LAMINATED GLASS	6063-T6	-
31A	E5-SGD2020-097	INTERLOCK HEAVY FOR INSULATED LAMINATED GLASS	6005-T5	-
31B	E5-SGD2020-096	INTERLOCK HEAVY FOR INSULATED LAMINATED GLASS	6005-T5	-
32	E5-SGD2020-032	REINFORCEMENT FOR INTERLOCK INSULATED LAM. GLASS	6005-T5	-
32A	E5-SGD2020-032A	REINFORCEMENT FOR INTERLOCK INSULATED LAM. GLASS	6005-T5	-
33	E5-SGD2020-033	LOCK STILE FOR INSULATED LAMINATED GLASS	6063-T6	-
33A	E5-SGD2020-099	LOCK STILE FOR INSULATED LAMINATED GLASS	6063-T6	-
34	E5-SGD2020-034	HEAD (4 TRACK)	6063-T6	-
35	E5-SGD2020-035	SILL (4 TRACK)	6063-T6	-
36	E5-SGD2020-036	FRAME SILL COVER (4 TRACK)	6063-T6	-
37	E5-SGD2020-037	JAMB (4 TRACK)	6063-T6	-
38	E5-SGD2020-040	SILL RAISER 4-3/16" HEIGHT	6063-T6	-
39	E5-SGD2020-G01	GLAZING GASKET FOR LAMINATED GLASS	SILICONE, DURO 70	-
40	E5-SGD2020-G02	GLAZING GASKET FOR LAMINATED GLASS	SILICONE, DURO 70	-
41	E5-SGD2020-G03	GLAZING GASKET FOR INSULATED LAMINATED GLASS	SILICONE, DURO 70	-
42	E5-SGD2020-G04	INTERLOCK BUMPER	BLACK PVC, 60 SHORE D	-
43	E5-SGD2020-G05	GLAZING GASKET FOR INSULATED LAMINATED GLASS	SILICONE, DURO 70	-
44	W23221NG	SILL HEAD PILE	POLYPROPYLENE	-
45	W231171NK	INTERLOCK PILE	POLYPROPYLENE	-
46	W23211NG	INTERLOCK ASTRAGAL	POLYPROPYLENE	-
47	WA2L	WEEPHOLE COVER	POLYPROPYLENE	-
48	QEZ 447-J	GLON	FOAM ALL STRUCTURE	-
49	PS01-0035-008	RECESSED FACIPLATE SBML LOCK TWO POINT	-	-

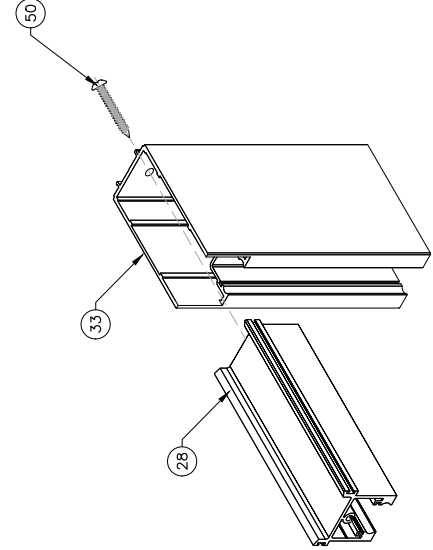
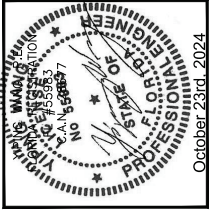
BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
50	PS01-0035-008	INVOLUTE HANDLE SET	-	-
	PS01-0014-000			
	PS01-0014-00B			
	PS01-0014-117			
51	PS01-1005-00B	ADJUSTABLE STRIKE	POLYPROPYLENE	-
	PS01-0060-000 2P			
52	-	BUMPER BASE AND SNAP FIT	STEEL AND RUBBER	-
53	1986-FRM-3000S5	ROLLER	STAINLESS STEEL	-
54	GTT-1500G-HKA-01-TE	ROLLER	-	ZAVAK
55	-	# 10 X 7/8" P.H. SCREW FOR PANEL ASSEMBLY	ST/ST	-
56	-	# 12 X 1-1/2" P.H. SCREW FOR FRAME ASSEMBLY	ST/ST	-
57	-	# 8 X 3/4" P.H. SCREW FOR HANDLE STRIKE	ST/ST	-
58	-	# 10 X 1" P.H. SCREW FOR MORTISE LOCK	ST/ST	-
59	-	# 12 X 1" P.H. SCREW FOR BUMPER	ST/ST	-
60	-	# 10 X 1" P.H. SCREW	ST/ST	-
60A	-	# 10 X 1/2" P.H. SCREW	ST/ST	-
61	-	1/4-20 X 2-1/2" PAN HEAD SCREW	ST/ST	-
62	DC983	DOW CORNING 983 STRUCTURAL SILICONE	SILICONE	-
63	DC791	DOW CORNING 791	SILICONE	-
64	-	GLAZING SPACER	ALUMINUM	HELIWA
65	E5-SGD2020-055	FRAME SILL- 5 TRACKS	6063-T6	-
66	E5-SGD2020-054	FRAME FRONT SILL	6063-T6	-
67	E5-SGD2020-062	FRAME FRONT HEAD	6063-T6	-
68	E5-SGD2020-021	INTERLOCK REINF. FOR LAMINATED GLASS	6063-T5	-
69	E5-SGD2020-063	FRAME HEAD - 5 TRACKS	6063-T6	-
70	E5-SGD2020-064	FRAME FRONT JAMB	6005-T5	-
71	E5-SGD2020-056	FRAME FRONT SILL	6063-T6	-
72	E5-SGD2020-061	POCKET DOOR CLOSER - 5 TRACKS	6063-T6	-
73	E5-SGD2020-065	JAMB - 5 TRACK	6063-T6	-
74	E5-SGD2020-071	REINF. FOR LOCK STILE LAM. GLASS	6063-T6	-
75	E5-SGD2020-068	FRAME FRONT SILL	6063-T6	-
76	AULP-018	SUPPORT FOR HANDLE LOCK	6063-T6	-
77	AULP-020	SUPPORT FOR HANDLE LOCK	6063-T6	-
78	E5-W525-014	COVER-POCKET	6063-T5	-
79	E5-SGD2020-069	HOOK STRIP BASE	6063-T6	-
80	E5-SGD2020-070	HOOK STRIP	6063-T6	-
81	E5-SGD2020-07X	REINFORCE FOR LOCK STILE (NSUL-LAM)	6063-T6	-
82	E5-SGD2020-041	SILL RAISER	6063-T6	-
83	-	# 10 X 3/8" P.H. TYP B	STAINLESS STEEL	-
84A	E5-SGD2020-084A	INTERLOCK HEAVY FOR LAMINATED GLASS	6005-T5	-
85A	E5-SGD2020-085A	INTERLOCK FOR LAMINATED GLASS	6005-T5	-
86A	E5-SGD2020-086A	INTERLOCK HEAVY FOR INSULATED LAMINATED GLASS	6005-T5	-
87A	E5-SGD2020-087A	INTERLOCK FOR INSULATED LAMINATED GLASS	6005-T5	-
88	D4304AMK-430X1.00X.3701	FOR (SLIDING PANEL) INTERLOCK AT SILL AND HEAD	POLYPROPYLENE	-
89	D5009AMK-.500X2.25X.6701	FOR (SLIDING PANEL) INTERLOCK AT SILL AND HEAD	POLYPROPYLENE	-

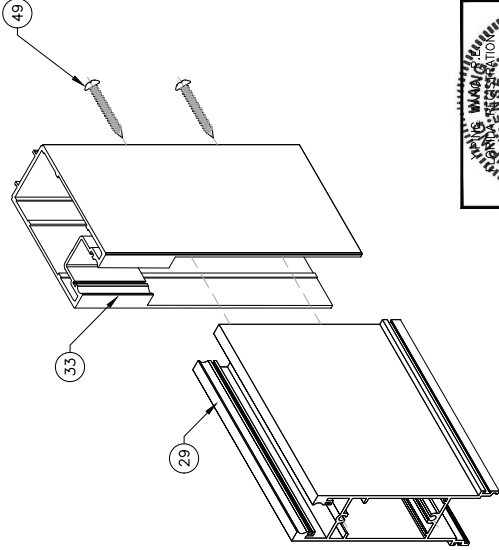




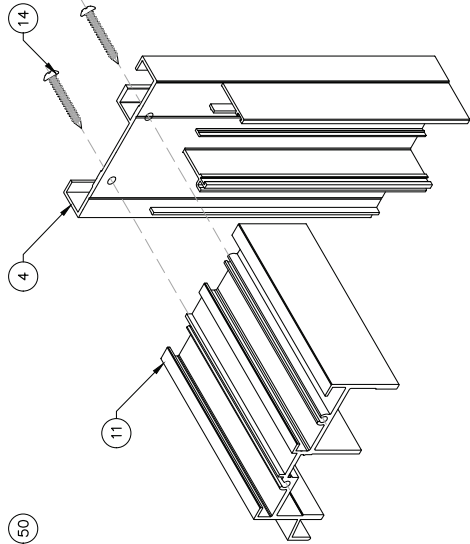
No.	Date	By	Description
Rev.	10/08/2024	LM1	REVISION
Rev.	10/08/2024	LM1	REVISION
Rev.	10/08/2024	LM1	REVISION
Rev.	10/08/2024	LM1	REVISION
Rev.	10/08/2024	LM1	REVISION



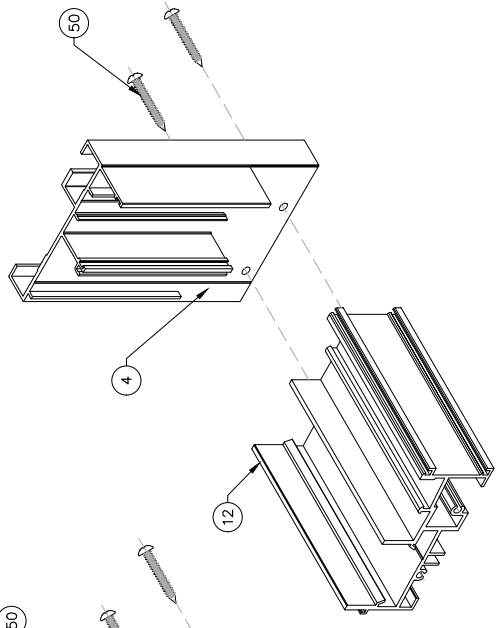
PANEL TOP CORNER



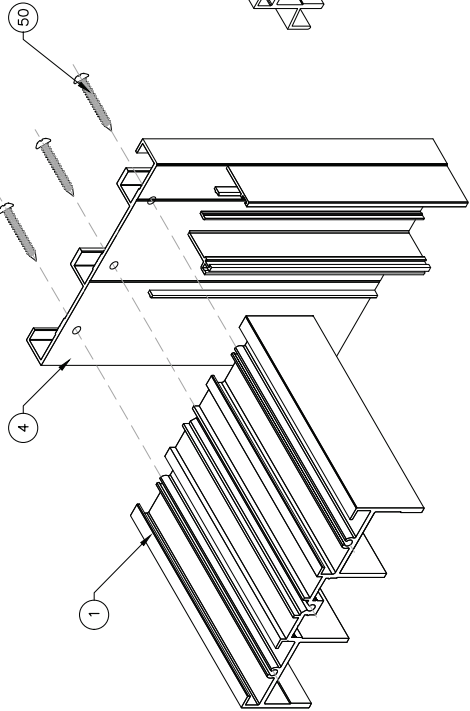
PANEL BOTTOM CORNER



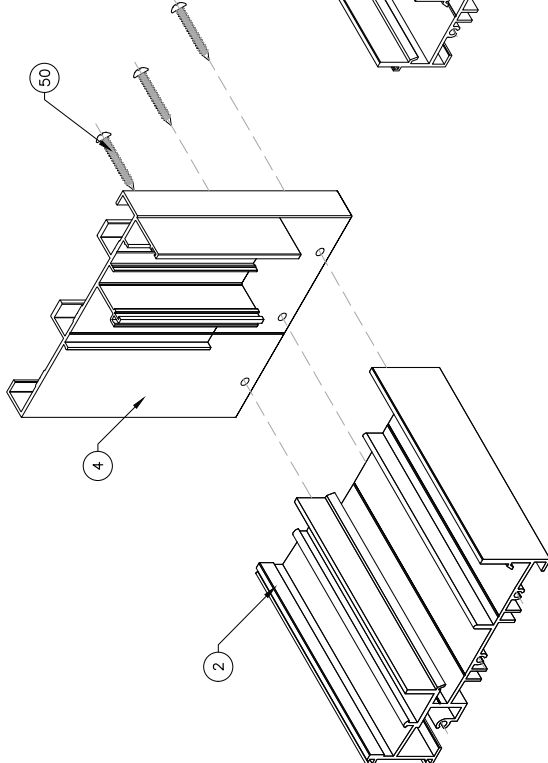
FRAME TOP CORNER
2 TRACK SHOWN



FRAME BOTTOM CORNER
2 TRACK SHOWN



FRAME TOP CORNER
3 TRACK SHOWN



FRAME BOTTOM CORNER
3 TRACK SHOWN



PRODUCT APPROVAL EVALUATION REPORT

<u>Product Manufacturer:</u> E.S. WINDOWS, Inc. 10653 NE Quaybridge Ct. Miami, FL 33138	<u>Product Name/Model & Description:</u> Series SGD 2020 SLIDING GLASS DOOR (L.M.I. & S.M.I.) (HVHZ) Sliding Glass Door – large & small missile impact
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Scope: This product has been evaluated by the below-signed Florida Professional Engineer for compliance with the Code noted herein and is, for the purpose intended, at least equivalent to that required by the Code, in accordance with section 553.842 F.S. & chapter 61G20-3.005 F.A.C. Re-evaluation of this product shall be required following applicable Code modifications or revisions.

Code: 8th Edition Florida Building Code (2023), inclusive of all Supplements effective as of this report date.

Compliance Method: 61G20-3.005 (1)(d) – Evaluation Report from a licensed Professional Engineer

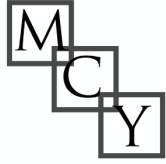
Product Description: Product Approval **Drawing #AD16-29**, prepared by MCY Engineering, signed and sealed by Yiping Wang, P.E., is an integral part of this Evaluation Report.

Limitations & Conditions of Use:

- This product has been evaluated for use **inside and outside of the HVHZ** (High Velocity Hurricane Zone)
- Impact Resistance: **Large and Small Missile Impact**
- Refer to Product Approval Drawing noted above for:
 - Maximum allowable wind loads at related maximum allowable size(s).
 - Other load limitations applicable to the product, if any.
 - Overall dimensions and material/grade of main product components, accessories, etc.
 - Illustrated diagrams of the attachment of the product to the structure.
 - Anchor type(s), size(s), substrate(s), embedment, edge distance, and spacing/locations.



December 27th, 2023



Test Reports:

Mandatory Tests (Tested in accordance with Florida Building Code Tests Protocols)

Test Lab	Report Number	Test Report Date	Test Standard & Description
Blackwater Testing, Inc. -West Palm Beach, FL	<i>BT-ESW-18-002, signed and sealed by Constantin Bortes, P.E.</i>	05/17/2018	TAS 201 (large missile impact) TAS 202(uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E283 (air infiltration test) ASTM E331 (water infiltration test) AAMA 1304 (forced entry test)
Fenestration Testing Laboratory FL33166	<i>FTL-12390 signed and sealed by Marlin Binson, PE</i>	12/17/2020	TAS 201 (large missile impact) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E283 (Air Infiltration) ASTM E331 (Water Resistance Test) ASTM F842 (Force Entry)
Blackwater Testing, Inc. -West Palm Beach, FL	<i>BT-ESW-16-010, signed and sealed by Constantin Bortes, P.E.</i>	03/23/2017	TAS 201 (large missile impact) TAS 202(uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E283 (air infiltration test) ASTM E331 (water infiltration test) ASTM 1886(cyclic wind pressure loading) ASTM 1996 (large missile impact) AAMA 1303 (forced entry test)
Blackwater Testing, Inc. -West Palm Beach, FL	<i>BT-ESW-23-003, signed and sealed by MICHAEL D CALDWELL, P.E.</i>	12/07/2023	TAS 201 (large missile impact) TAS 202(uniform static test) TAS 203 (cyclic wind pressure loading)

Engineering Analysis:

 The following engineering analyses and/or calculations have been performed:

- No comparative analysis has been performed for conditions other than those tested.
- No rational analysis has been performed.
- Anchor calculations are based on manufacturer's published anchor capacity, anchor Notice of Acceptance by Miami Dade County.



December 27th, 2023

Residential System Sizing Calculation

Summary

13633 83rd LANE NORTH
WEST APLM BEACH, FL

Project Title:
BEATON RESIDENCE

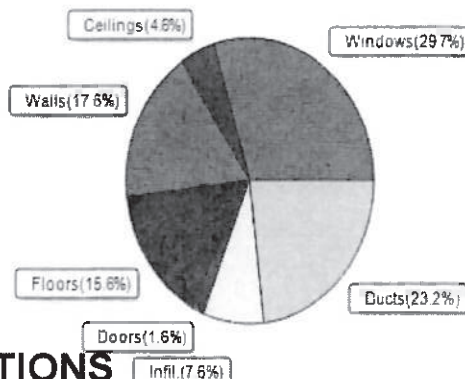
2/18/2025

Location for weather data: West Palm Beach, FL - Defaults: Latitude(26.68) Altitude(100 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (78F) Humidity difference(60gr.)			
Winter design temperature(TMY3 99%)	42 F	Summer design temperature(TMY3 99%)	91 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	28 F	Summer temperature difference	16 F
Total heating load calculation	76864 Btuh	Total cooling load calculation	85761 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	119.7 92000	Sensible (SHR = 0.75)	94.8 68625
Heat Pump + Auxiliary(0.0kW)	119.7 92000	Latent	171.0 22875
		Total (Electric Heat Pump)	106.7 91500

WINTER CALCULATIONS

Winter Heating Load (for 3998 sqft)

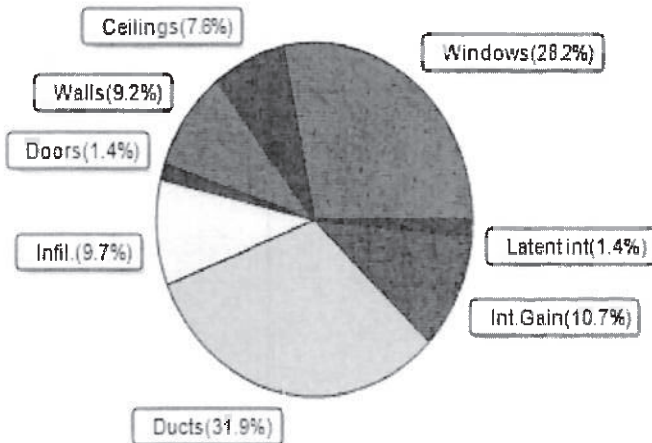
Load component		Load	
Window total	850 sqft	22857	Btuh
Wall total	3398 sqft	13549	Btuh
Door total	96 sqft	1236	Btuh
Ceiling total	3998 sqft	3565	Btuh
Floor total	See detail report	11960	Btuh
Infiltration	191 cfm	5860	Btuh
Duct loss		17836	Btuh
Subtotal		76864	Btuh
Ventilation	Ex:0 cfm; Sup:0 cfm	0	Btuh
TOTAL HEAT LOSS		76864	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 3998 sqft)

Load component		Load	
Window total	850 sqft	24154	Btuh
Wall total	3398 sqft	7861	Btuh
Door total	96 sqft	1192	Btuh
Ceiling total	3998 sqft	6494	Btuh
Floor total		0	Btuh
Infiltration	143 cfm	2511	Btuh
Internal gain		9180	Btuh
Duct gain		20993	Btuh
Sens. Ventilation	Ex:0 cfm; Sup:0 cfm	0	Btuh
Blower Load		0	Btuh
Total sensible gain		72385	Btuh
Latent gain(ducts)		6354	Btuh
Latent gain(infiltration)		5822	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
Total latent gain		13376	Btuh
TOTAL HEAT GAIN		85761	Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: *Robert J. [Signature]*

DATE: *2/18/25*

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

13633 83rd LANE NORTH
WEST APLM BEACH, FL

Project Title:
BEATON RESIDENCE

2/18/2025

Reference City: West Palm Beach, FL (Defaults)
Humidity difference: 60gr.

Temperature Difference: 16.0F(TMY3 99%)
Summer Setpoint: 75 °F (Required Manual J default)

Component Loads for Room #1: Main

Window	Type*						Overhang		Window Area(sqft)			HTM		Load	
	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	1 NFRC	0.32, 0.96	No	No	N		2.0ft	2.0ft	36.0	0.0	36.0	22	22	801	Btuh
2	1 NFRC	0.32, 0.96	No	No	NE		8.0ft	1.0ft	48.0	0.0	48.0	22	37	1792	Btuh
3	1 NFRC	0.32, 0.96	No	No	NE		18.0f	1.0ft	21.3	0.0	21.3	22	37	796	Btuh
4	1 NFRC	0.32, 0.96	No	No	N		22.0f	1.0ft	387.0	0.0	387.0	22	22	8612	Btuh
13	1 NFRC	0.32, 0.96	No	No	S		2.0ft	2.0ft	36.0	36.0	0.0	22	24	801	Btuh
14	1 NFRC	0.32, 0.96	No	No	S		6.0ft	3.0ft	16.0	16.0	0.0	22	24	356	Btuh
15	1 NFRC	0.32, 0.96	No	No	S		6.0ft	3.0ft	16.0	16.0	0.0	22	24	356	Btuh
16	1 NFRC	0.32, 0.96	No	No	S		2.0ft	2.0ft	36.0	36.0	0.0	22	24	801	Btuh
17	1 NFRC	0.32, 0.96	No	No	W		2.0ft	2.0ft	30.0	0.0	30.0	22	46	1395	Btuh
18	1 NFRC	0.32, 0.96	No	No	W		2.0ft	2.0ft	3.0	0.0	3.0	22	46	139	Btuh
19	1 NFRC	0.32, 0.96	No	No	W		2.0ft	2.0ft	18.0	0.0	18.0	22	46	837	Btuh
20	1 NFRC	0.32, 0.96	No	No	W		2.0ft	2.0ft	18.0	0.0	18.0	22	46	837	Btuh
Window Total									665 (sqft)					17523 Btuh	
Walls	Type	U-Value		R-Value		Area(sqft)		HTM		Load					
1	Concrete Blk,Hollow - Ext	0.15	4.1/0.0			273.0		2.4			664 Btuh				
2	Concrete Blk,Hollow - Ext	0.15	4.1/0.0			278.7		2.4			678 Btuh				
3	Concrete Blk,Hollow - Ext	0.15	4.1/0.0			24.0		2.4			58 Btuh				
4	Concrete Blk,Hollow - Ext	0.15	4.1/0.0			568.0		2.4			1382 Btuh				
5	Concrete Blk,Hollow - Ext	0.15	4.1/0.0			543.0		2.4			1321 Btuh				
6	Frame - Steel - Adj	0.12	11.0/0.0			300.0		1.9			569 Btuh				
7	Frame - Steel - Adj	0.12	11.0/0.0			60.0		1.9			114 Btuh				
Wall Total						2047 (sqft)				4786 Btuh					
Doors	Type	Area (sqft)		HTM		Load									
1	Insulated - Exterior	48.0		12.4		596 Btuh									
2	Wood - Garage	24.0		12.4		298 Btuh									
Door Total						72 (sqft)					894 Btuh				
Ceilings	Type/Color/Surface	U-Value		R-Value		Area(sqft)		HTM		Load					
1	Vented Attic/DarkMetal	0.032	30.0/0.0			2888.0		1.62			4691 Btuh				
Ceiling Total						2888 (sqft)				4691 Btuh					
Floors	Type	R-Value		Size		HTM		Load							
1	Slab On Grade	0.0		2888 (ft-perimeter)		0.0				0 Btuh					
Floor Total						2888.0 (sqft)				0 Btuh					
Zone Envelope Subtotal:											27894 Btuh				

Manual J Summer Calculations

Residential Load - Component Details (continued)

13633 83rd LANE NORTH
WEST APLM BEACH, FL

Project Title: Climate: FL_WEST_PALM_BEACH_INTL_A
BEATON RESIDENCE

2/18/2025

Infiltration	Type Natural	Wholehouse ACH 0.18	Volume(cuft) 34656	Wall Ratio 0.60	CFM= 86.2	Load 1513 Btuh
Internal gain		Occupants 4	Btuh/occupant X 230	Appliance +	4400	Load 5320 Btuh
					Sensible Envelope Load:	34726 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)				(DGM of 0.334)	11584 Btuh
					Sensible Zone Load	46310 Btuh

Component Loads for Room #2: Master Bedroom

Window	Type*						Overhang		Window Area(sqft)			HTM		Load	
	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
5	1 NFRC	0.32	0.96	No	No	NW	10.0ft	1.0ft	80.0	0.0	80.0	22	37	2986	Btuh
6	1 NFRC	0.32	0.96	No	No	N	2.0ft	2.0ft	36.0	0.0	36.0	22	22	801	Btuh
7	1 NFRC	0.32	0.96	No	No	E	2.0ft	2.0ft	18.0	0.0	18.0	22	46	837	Btuh
8	1 NFRC	0.32	0.96	No	No	E	2.0ft	2.0ft	18.0	0.0	18.0	22	46	837	Btuh
9	1 NFRC	0.32	0.96	No	No	S	2.0ft	2.0ft	15.0	15.0	0.0	22	24	334	Btuh
10	1 NFRC	0.32	0.96	No	No	E	2.0ft	2.0ft	3.0	0.0	3.0	22	46	139	Btuh
11	1 NFRC	0.32	0.96	No	No	E	2.0ft	2.0ft	12.0	0.0	12.0	22	46	558	Btuh
12	1 NFRC	0.32	0.96	No	No	E	2.0ft	2.0ft	3.0	0.0	3.0	22	46	139	Btuh
Window Total									185 (sqft)					6631 Btuh	
Walls	Type	U-Value		R-Value		Area(sqft)		HTM		Load					
				Cav/Sheath											
8	Concrete Blk,Hollow - Ext	0.15		4.1/0.0		108.0		2.4		263 Btuh					
9	Concrete Blk,Hollow - Ext	0.15		4.1/0.0		498.0		2.4		1211 Btuh					
10	Concrete Blk,Hollow - Ext	0.15		4.1/0.0		57.0		2.4		139 Btuh					
11	Concrete Blk,Hollow - Ext	0.15		4.1/0.0		292.0		2.4		710 Btuh					
12	Frame - Steel - Adj	0.12		11.0/0.0		300.0		1.9		569 Btuh					
13	Frame - Steel - Adj	0.12		11.0/0.0		96.0		1.9		182 Btuh					
Wall Total						1351 (sqft)					3075 Btuh				
Doors	Type	Area (sqft)		HTM		Load									
3	Wood - Garage	24.0		12.4		298 Btuh									
Door Total						24 (sqft)					298 Btuh				
Ceilings	Type/Color/Surface	U-Value		R-Value		Area(sqft)		HTM		Load					
2	Vented Attic/DarkMetal	0.032		30.0/0.0		1110.0		1.62		1803 Btuh					
Ceiling Total						1110 (sqft)					1803 Btuh				
Floors	Type	R-Value		Size		HTM		Load							
2	Slab On Grade	0.0		1110 (ft-perimeter)		0.0		0 Btuh							
Floor Total						1110.0 (sqft)					0 Btuh				
Zone Envelope Subtotal:											11807 Btuh				

Manual J Summer Calculations

Residential Load - Component Details (continued)

13633 83rd LANE NORTH
WEST APLM BEACH, FL

Project Title: Climate:FL_WEST_PALM_BEACH_INTL_A
BEATON RESIDENCE

2/18/2025

Infiltration	Type Natural	Wholehouse ACH 0.18	Volume(cuft) 13320	Wall Ratio 0.40	CFM= 56.9	Load 999 Btuh
Internal gain		Occupants 2	Btuh/occupant X 230	Appliance +	3400	Load 3860 Btuh
					Sensible Envelope Load:	16665 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)				(DGM of 0.565)	9409 Btuh
					Sensible Zone Load	26075 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

13633 83rd LANE NORTH
WEST APLM BEACH, FL

Project Title: Climate:FL_WEST_PALM_BEACH_INTL_A
BEATON RESIDENCE

2/18/2025

SYSTEM GROUPS (BLOCK LOADS)

Cooling Loads For System(s): 1 Block #1:Block1 Serving Zones: 1	Sensible Envelope Load	34726 Btuh
	Window Excursion	0 Btuh
	Sensible Duct Load (duct gain multiplier of 0.334)	11584 Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Zone Sensible gain	46310 Btuh
	Latent infiltration/ventilation gain	3507 Btuh
	Latent duct gain	3331 Btuh
	Latent occupant gain	800 Btuh
	Latent other gain	0 Btuh
	Total block load	53948 Btuh

Cooling Loads For System(s): 2 Block #2:Block2 Serving Zones: 2	Sensible Envelope Load	16665 Btuh
	Window Excursion	0 Btuh
	Sensible Duct Load (duct gain multiplier of 0.565)	9409 Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Zone Sensible gain	26075 Btuh
	Latent infiltration/ventilation gain	2315 Btuh
	Latent duct gain	3024 Btuh
	Latent occupant gain	400 Btuh
	Latent other gain	0 Btuh
	Total block load	31813 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

13633 83rd LANE NORTH
WEST APLM BEACH, FL

Project Title: Climate:FL_WEST_PALM_BEACH_INTL_A
BEATON RESIDENCE

2/18/2025

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	51392 Btuh
	Sensible Duct Load	20993 Btuh
	Total Sensible Zone Loads	72385 Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Blower	0 Btuh
	Total sensible gain	72385 Btuh
	Latent infiltration gain (for 60 gr. humidity difference)	5822 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	6354 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	13376 Btuh
	TOTAL GAIN	85761 Btuh

EQUIPMENT

1. Central Unit	#	56500 Btuh
2. Central Unit	#	35000 Btuh

*Key: Window types (Panels - Number and type of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value)

(U - Window U-Factor)

(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))

- For Blinds: Assume medium color, half closed

For Draperies: Assume medium weave, half closed

For Roller shades: Assume translucent, half closed

(IS - Insect screen: none(N), Full(F) or Half(½))

(Ornt - compass orientation)



Version 8

OWNER-BUILDER DISCLOSURE STATEMENT

PERMIT NUMBER: 202508037

All owner-builder applicants must personally appear and sign this Owner-Builder Disclosure Statement and the Building Permit Application in the presence of a Building Department staff. Photo identification will be required. A Trust, LLC or Corporation **DOES NOT** meet the requirement for owner-builder status.

1. I understand that state law requires construction to be done by a licensed contractor and have applied for an owner-builder permit under an exemption from the law. The exemption specifies that I, as the owner of the property listed, may act as my own contractor with certain restrictions even though I do not have a license.
2. I understand that building permits are not required to be signed by a property owner unless he or she is responsible for the construction and is not hiring a licensed contractor to assume responsibility.
3. I understand that, as an owner-builder, I am the responsible party of record on a permit. I understand that I may protect myself from potential financial risk by hiring a licensed contractor and having the permit filed in his or her name instead of my own name. I also understand that a contractor is required by law to be licensed in Florida and to list his or her license numbers on permits and contracts.
4. I understand that I may build or improve a one-family or two-family residence or a farm outbuilding. I may also build or improve a commercial building if the costs do not exceed \$75,000. The building or residence must be for my own use or occupancy. It may not be built or substantially improved for sale or lease, unless I am completing the requirements of a building permit where the contractor listed on the permit substantially completed the project. If a building or residence that I have built or substantially improved myself is sold or leased within 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates the exemption.
5. I understand that, as the owner-builder, I must provide direct, onsite supervision of the construction.
6. I understand that I may not hire an unlicensed person to act as my contractor or to supervise persons working on my building or residence. It is my responsibility to ensure that the persons whom I employ have the licenses required by law and by county or municipal ordinance.
7. I understand that it is a frequent practice of unlicensed persons to have the property owner obtain an owner-builder permit that erroneously implies that the property owner is providing his or her own labor and materials. I, as an owner-builder, may be held liable and subjected to serious financial risk for any injuries sustained by an unlicensed person or his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an owner-builder and am aware of the limits of my insurance coverage for injuries to workers on my property.
8. I understand that I may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on my building who is not licensed must work under my direct supervision and must be employed by me, which means that I must comply with laws requiring the withholding of federal income tax and social security contributions under the Federal Insurance Contributions Act (FICA) and must provide workers' compensation for the employee. I understand that my failure to follow these laws may subject me to serious financial risk.
9. I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern owner-builders as well as employers. I also understand that the construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.
10. I understand that I may obtain more information regarding my obligations as an employer from the Internal Revenue Service, the United States Small Business Administration, the Florida Department of Financial Services, and the Florida Department of Revenue. I also understand that I may contact the Florida Construction Industry Licensing Board at 850-487-1395 or www.myfloridalicense.com/dbpr/pro/cilb/ for more information about licensed contractors.
11. I am aware of, and consent to, an owner-builder building permit applied for in my name and understand that I am the party legally and financially responsible for the proposed construction activity at the following address:

18250 SE Loxahatchee River Rd Jupiter 33455

12. I agree to notify Martin County Building Department immediately of any additions, deletions, or changes to any of the information that I have provided on this disclosure.

Licensed contractors are regulated by laws designed to protect the public. If you contract with a person who does not have a license, the Construction Industry Licensing Board and Department of Business and Professional Regulation may be unable to assist you with any financial loss that you sustain as a result of a complaint. Your only remedy against an unlicensed contractor may be in civil court. It is also important for you to understand that, if an unlicensed contractor or employee of an individual or firm is injured while working on your property, you may be held liable for damages. If you obtain an owner-builder permit and wish to hire a licensed contractor, you will be responsible for verifying whether the contractor is properly licensed and the status of the contractor's workers' compensation coverage.

Before a building permit can be issued, this disclosure statement must be completed and signed by the property owner in front of staff at the local permitting agency responsible for issuing the permit. A copy of the property owner's driver's license, or other type of verification acceptable to the local permitting agency is required when the permit is issued.

Cory Beaton

Name of Owner/Builder

Amber Case

Name of Building Department Staff

[Signature]

Signature of Owner/Builder

[Signature]

Signature of Building Department Staff

Date: 10/1/25

Date: 10/1/25

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