



ARCHITECTURAL REVIEW BOARD REGULAR MEETING AGENDA

Town Council Chambers
765 Lynn Street, Herndon, VA 20170

Wednesday, September 18, 2024 | 7:30 PM

1. Call to Order

2. Approval of Minutes

- a. August 21, 2024, Architectural Review Board Regular Meeting Minutes

3. Comments

- a. Comments from the Staff Members
- b. Comments from the Board Members
- c. Comments from Citizens

Members of the public may, for one 3-minute period, provide public comments, requests, consent or general item comments, and comments on matters not included on the agenda.

4. Public Hearings

- a. Application for Alterations, ARB #24-04, to consider an application for a facade re-design to an existing commercial building at 598 Elden Street

5. New Business

- a. 2025 ARB Meeting Schedule

6. Adjournment



Architectural Review Board Regular Meeting **Agenda Item 2.a.**

Agenda Item: August 21, 2024, Architectural Review Board Regular Meeting Minutes

Meeting Date: September 18, 2024

Category: Approval of Minutes

Prepared by: Aaron Zoellick, Clerk of Boards and Commissions

Description:

This is a request to approve the August 21, 2024, Architectural Review Board regular meeting minutes.

Background:

N/A

Budget Impact:

N/A

Recommendation:

Recommend approval, as presented.

Attachments:

1. 08.21.2024 Architectural Review Board Regular Meeting Minutes



**HERNDON ARCHITECTURAL REVIEW BOARD
Regular Meeting Minutes
Wednesday, August 21, 2024**

1. Call to Order

Chair Blaker-Glass called the August 21, 2024, Architectural Review Board regular meeting to order at 7:30 p.m. in the Town of Herndon Council Chambers Building, 765 Lynn Street, Herndon, Virginia. In attendance were: Board Members Melody Fetske, Vice Chair Eric Boll, and Chair Leslie Blaker-Glass. Board Member Amy Oleinick was absent.

Staff present during the meeting: Lauri Sigler, Deputy Town Attorney; Tamsin Himes, Lead Planner/Design Development; and Aaron Zoellick, Clerk of Boards and Commissions.

Chair Blaker-Glass determined there was a quorum of three members present.

2. Approval of Minutes

a. July 10, 2024, Architectural Review Board Work Session Minutes

b. July 17, 2024, Architectural Review Board Regular Meeting Minutes

Board Member Fetske motioned to approve the July 10, 2024, Architectural Review Board work session minutes and the July 17, 2024, Architectural Review Board regular meeting minutes.

Motion seconded by Vice Chair Boll.

The question was called on the motion, which was carried by a 3-0 roll call vote.

Board Member Fetske, Vice Chair Boll, and Chair Blaker-Glass voted "Aye."

Board Member Oleinick was absent.

3. Comments

a. Comments from the Board Members

No comments were offered.

b. Comments from the Staff Members

No comments were offered.

c. Comments from Citizens

No comments were offered.

4. Public Hearings

a. APPLICATION FOR AN ADDITION AND ALTERATIONS, ARB #24-002, to consider an application for alterations and an addition to the Herndon Elementary School, Fairfax County Public Schools, at 630 Dranesville Road, Herndon, Virginia.

Certificates of Publication from the Editor of the Fairfax County Times Newspapers were filed, showing that notices of the following public hearing item were duly advertised in the August 2 and August 9, 2024, issues.

Chair Blaker-Glass opened the public hearing and called on Ms. Himes for the staff presentation.

Ms. Himes delivered the staff memo and presentation dated August 21, 2024, which are on file with the Department of Community Development. Ms. Himes stated that the application is for alterations and an addition to the Herndon Elementary School. Staff is recommending that the application be continued to a date certain, at which time the project site plan has been approved, and staff has deemed the application complete.

The board members and staff discussed this item, including clarification on the cause of the delay in site plan approval.

Chair Blaker-Glass recognized the applicant to provide comment. The applicant was not present.

Chair Blaker-Glass moved to the board for possible action. Ms. Sigler stated that because this was advertised as a public hearing, we can still take public comment, and keep the public hearing open for a future meeting.

Chair Blaker-Glass recognized members of the public for comment.

Brian Faulke provided comment requesting clarification on who the board is waiting for approval from. Chair Blaker-Glass directed the public to the town website for all materials for this application. Ms. Himes stated that the board cannot take action

until the site plan is approved. The town is waiting for additional information from the applicant regarding easements. Ms. Sigler stated that additional information is needed from the county and the school system before the site plan can be completed. Mr. Faulke stated that he wanted to help move the application along however he can and asked if there was someone that he could contact. Ms. Himes stated that Fairfax County Schools is the applicant. Chair Blaker-Glass stated that the Fairfax County School Board may have additional information.

Mark Kuniholm, 1114 Devon St, provided comment requesting clarification on funding provided by the state and any stipulations that the project had to begin or end by a certain date. Chair Blaker-Glass stated that the board and town staff do not have insight into Fairfax County's budget for the project.

Barry Clendenin, 520 Fillmore St, provided comment regarding their opposition to the 67 new parking spaces being installed near his property and their concern about the risk of water drainage.

Chair Blaker-Glass stated that members of the public are also welcome to submit letters to the Town Clerk that will be entered into the record.

Stephen Moskowitz, 846 S Gunnell Ct, provided comment seeking to ensure that the town is doing anything it can do to get this project moving forward.

Kate McCartney, 1006 Pembroke St, provided comment seeking clarification on what the next steps are after site plan and ARB approval. Ms. Himes stated that the next step would be a building permit which is the final step as far as the town is concerned before construction. Chair Blaker-Glass asked for additional information about the building permit review. Ms. Himes stated that the building permit process is through the Department of Public Works and ensures that plans comply with code, engineering, and zoning.

Brian White provided comment regarding contact information for Fairfax County Public Schools.

Chair Blaker-Glass left the public hearing open and moved to the board for discussion and possible action.

Board Member Fetske motioned to continue ARB #24-002 to a date certain, at which time the project site plan has been approved, and staff has deemed the application complete.

Motion seconded by Vice Chair Boll.

The question was called on the motion, which was carried by a 3-0 roll call vote. Board Member Fetske, Vice Chair Boll, and Chair Blaker-Glass voted "Aye." Board Member Oleinick was absent.

Chair Blaker-Glass stated that the application will be re-advertised after the site

plan is approved. Additional comments can be sent to the Town Clerk.

5. Adjournment

There being no further business, and without objection, the August 21, 2024, Architectural Review Board regular meeting was adjourned at 7:57 p.m.

Agenda Item: Application for Alterations, ARB #24-04, to consider an application for a facade re-design to an existing commercial building at 598 Elden Street

Meeting Date: September 18, 2024

Category: Public Hearings

Prepared by: Bryce Perry, Deputy Director of Community Development

Description:

This application proposes a complete re-design of the existing commercial building's facades to include replacement exterior cladding and forms and some new fenestration. The new design is very contemporary in form and will be predominantly clad in brick veneer and composite faux wood boards. The design is heavily informed by the building's function as a restaurant with a drive-through.

Background:

The subject property is located on a lot situated on the north side of Elden Street between Grant Street and Van Buren Street and is improved with the building at the center of the parcel surrounded by surface parking and mature landscaping. The building was constructed in 1997 as a Burger King. The proposed design would reflect the branded design for the tenant, Panda Express.

Budget Impact:

n/a

Recommendation:

Staff recommends approval with conditions. See attached draft resolution.

Attachments:

1. Staff Memo
2. Resolution (Proposed)
3. Panda Comment Response letter
4. Panda Color Renderings
5. Panda Line Elevations
6. Panda Existing Conditions
7. Panda Material Board
8. Panda Roof Plan
9. Panda Wall Sections

10. Panda Trash Enclosure Details
11. Panda Canopy Details
12. Panda Material Specifications

STAFF MEMO

Agenda Item: ARB #24-004, Façade Re-design at 598 Elden Street

Meeting Date: September 18, 2024

Staff Contact: Bryce A. Perry, Deputy Director, Community Development

Case Updates:

This memo serves as an addendum to the staff report for the above-referenced case dated September 4, 2024.

The applicant has provided new case materials revising the previously proposed design, clarifying the omitted information as requested by staff, and addressing many of the comments raised by staff in the report and by the board at the work session. The new materials include a comment response letter addressing each of the comments raised. With the new information, staff believes a complete evaluation can be conducted. Previous unknown design elements such as the trash enclosure updates, new rooftop mechanical equipment, and exact cladding materials, have now been effectively explained.

The largest design concerns previously discussed revolve around the overuse of EIFS and the preferred increased use of brick veneer. The applicant has sought to address those comments by replacing the EIFS with white brick veneer, a sample of which will be provided at the September 18, 2024, ARB regular meeting. Staff supports the removal of EIFS from the proposed façade design and use of the proposed white brick. This change, staff believes, will assist in extending both the aesthetic and material durability of the new design. This revision, however, does not address the material hierarchy and overall façade balance issues raised previously. Continuing the black brick and brick pilasters partially above the windows as shown in the image below would address this concern. This solution maintains the white brick band, which Panera has indicated is important to its brand, while better balancing the cladding on the façade and reducing the visual impact of that large white band.



Based on the new case materials submitted, the staff recommendation has been changed from recommending a continuance of the hearing to recommending a conditioned approval. A draft resolution has been provided for this new recommendation. The conditions are generally standard for this type of application and specifically address the remaining design comment regarding the use of the painted black brick above the windows.

**TOWN OF HERNDON, VIRGINIA
ARCHITECTURAL REVIEW BOARD**

RESOLUTION

SEPTEMBER 18, 2024

Resolution- to approve ARB #24-004, for alterations to an existing structure located at 598 Elden Street, Herndon, Virginia, and further identified as Fairfax County Tax Map parcel number 0162 02 0218.

BE IT RESOLVED by the Architectural Review Board of the Town of Herndon, Virginia that:

1. The Architectural Review Board approves ARB #24-004, for alterations to an existing structure located at 598 Elden Street, Herndon, Virginia, and further identified as Fairfax County Tax Map parcel number 0162 02 0218, in substantial conformance with the information shown in the case materials reviewed by the HDRB at the September 18, 2024, regular meeting, and with the following conditions:
 - a. This application does not include any signage. The signage is shown for informational purposes only. Any new signage proposed for this site shall require a separate application.
 - b. This application does not include any site improvements. Alterations to the site features outside the building footprint may require a separate site plan application.
 - c. The painted black brick shall be extended above the windows in a manner similar to the exhibit provided in the staff memo dated September 18, 2024, and the applicant shall coordinate with staff for the final review and approval of the revised drawings showing this revision.
 - d. The applicant shall provide one hard copy of all the final application materials for inclusion in the file records.



September 09, 2024

Bryce A. Perry
Deputy Director of Community Development
Town of Herndon

Re: Panda Express –
598 Elden Street
Herndon, VA

Dear Mr. Perry,

We received the following Report from the Work Session meeting on September 4, 2024, for the project above. We respond as follows:

1. Black and white line elevation drawings, drawn to a standard scale, with call-outs for all exterior materials.

Please see the attached file titled; Panda_VA_Herndon_Elevations for the standard scale black and white elevations.

2. A roof plan showing any proposed and existing (to remain) rooftop mechanical equipment. Note that any equipment that extends above the parapet must be shown in the elevation drawings.

Please see the attached file titled; Panda_VA_Herndon_Roof Plan for the schematic Roof Plan and specifications for typical rooftop units. Refer to Elevations for rooftop equipment heights.

3. Material specifications for all new and replaced windows, doors, light fixtures, parapet coping, and canopies.

Please see the Cutsheet folder for requested specifications

4. Drawings and materials specifications for the existing enclosures at the building's east elevation.

Please see the attached file titled; Panda_VA_Herndon_Elevations for the building east elevations and Panda_VA_Herndon_Trash Enclosure Details. The existing enclosure walls will be tuck pointed and cleaned, any damage brick will be replaced. The walls will be painted to match building's façade. All gates will be replaced and finished as noted on Sheet A-407.



5. Clarity and details on how specifically the exterior cladding materials will transition between materials when on the same wall plane.

Please see the attached file titled; Panda_VA_Herndon_Wall Sections for transitions between materials.

6. More information and details on whether the EIFS will be paneled or scored into smaller cladding patterns as expressed further in the staff analysis comment #4.

EIFS has been omitted from the proposed finishes. The proposed building will proceed with Glacier white brick. Please see the revised Exterior Elevations and finish specifications.

7. More information on the faux wood board colors and patterns as expressed further in the staff analysis comment #4.

Please see the attached file titled; Composite cladding FIBERON WILDWOOD SAHARA CLADDING_BAMBOO for the specifications of the Composite Cladding

8. More information on the brick treatments as expressed further in the staff analysis comment #4

Please see the attached file titled; Loxon Self-Cleaning Acrylic Coating for Brick Treatments and Loxon Acrylic Conditioner, LX03. The manufactures have recommended the following: Prime: Loxon Acrylic Conditioner, LX03 Finish (2 Coats); Loxon Self-Cleaning Acrylic Satin, LX14.

9. Material samples of the proposed exterior cladding materials (faux wood, EIFS, brick paint color, coping color, canopy color)

Please see the digital material board, attached showing the composite cladding, Brick – Glacier White, SW 7069 IRON ORE, and Black Aluminum 4"x 4" for both the coping and canopy color.

10. Materials - As stated above, there are numerous exterior treatments for which additional information is required. Of the principal cladding materials, the following staff comments are provided. Faux Wood Composite Boards. The application proposes three different colors for these; a red wood, a dark brown wood, and a light brown wood. The colored rendering does not accurately portray boards of varying colors. If this is the intent, the colored renderings must be updated. It is unclear whether certain colors will be used in certain areas or whether they would be randomly patterned together and what percentages of each would be used. The bond or pattern of the boards and the type of groove they have are also unclear and



must be explained. They can be random or stepped or vertically aligned. Though correct renderings may show otherwise, staff is concerned that the use of three different colors, especially clashing colors like red and brown, may create an overly busy effect and may not contrast effectively with the dark brick. Precedent images from other similar Panda Express buildings that use these boards would be beneficial to understand their appearance.

Please see the attached file titled; FIBERON WILDWOOD SAHARA CLADDING_BAMBOO. The Composite Cladding is intended to be in the Bamboo finish only.

11. Brick Veneer. Brick should be used to the greatest extent possible. See Comment #5 below. Further clarity is necessary to understand whether the new brick will match the bond/pattern of the existing brick (running bond with soldier courses), whether it will be feathered into the existing brick where existing wall openings are being closed, and whether the proposed paint is specially meant for masonry and what the longevity of the paint is. It is typically not best practice to employ painted brick as a long-term design feature for commercial structures. It should be expected that within five years the paint will start to fail and the color of the base brick behind the paint will begin to show. This most recently has occurred in Herndon at the building where the Mellow Mushroom was located. In that regard, the color of the new bricks and mortar and how they differ from the existing bricks and mortar are important and must be understood.

Please see revised Exterior Elevations. EIFS has been omitted and replaced by brick. The Loxon Acrylic Conditioner will be applied as a primer and a self-cleaning acrylic coating will be used for painting to the exterior brick. See specifications, per manufacturer recommendations.

12. EIFS. EIFS is discouraged especially as a primary cladding material because of its low quality, flat appearance and tendency to age quickly. While more information about the proposed EIFS such as whether it is paneled or scored in a certain manner to break it up into smaller units is necessary, staff does not support its use as part of this re-design. This comment is further addressed in staff analysis comment #5.

Please see revised Exterior Elevations. EIFS has been omitted and replaced by brick. The Loxon Acrylic Conditioner will be applied as a primer and a self-cleaning acrylic coating will be used for painting to the exterior brick. See specifications, per manufacturer recommendations.

13. Façade Design - Staff recommends modifications to the proposed design. These revisions would better align the design with the standards of quality and physical and aesthetic longevity described in the Design Criteria referenced above. Currently, the proposed design has a stark horizontal division, highlighted by a thick band of EIFS. The single brick soldier



course above the windows is unnecessarily squat and does not effectively balance out the use of brick both above and below the windows. Material and aesthetic durability can be addressed by simplifying the design of the building and increasing the use of brick. The exhibits below show two concepts mocked up by staff with the brick carried further up the façade and meeting directly with two varying heights of faux wood boards. This increased level of dark brick assumes the use of the light brown faux wood boards as shown in the proposed drawings. Pulling brick up the façade in this manner would increase the quality of the materials, provide more continuity in the cladding elements, address the stark horizontal division, and eliminate the need for EIFS.

Please see the revised Exterior Elevations and digital material board. EIFS has been omitted and replaced by brick. The Loxon Acrylic Conditioner will be applied as a primer and a self-cleaning acrylic coating will be used for painting to the exterior brick. See specifications, per manufacturer recommendations.

14. Corporate Architecture Herndon has enacted architectural controls to allow the town the opportunity to strive for and achieve higher-quality designs and materials that enhance the townscape beyond what a typical suburban environment might offer. This is an important perspective to apply when reviewing any branded/corporate architecture or architecture that relies on current design trends that, when used repeatedly, can create sameness across a community and sameness between different communities. This understanding is important if Herndon intends to bolster its unique sense of place and character versus a typical suburban community that can be found in any jurisdiction in the country.

After further review with Panda Express, we have concluded the use of brick will align best with the town of Herndon's perspective. The EIFS finish has been omitted and replaced with brick.

15. Transition Area Details - Transition areas between cladding elements, corners, or different features on an elevation are important in understanding how the structure will appear in real life. These transition points include the connections between the composite siding and the brick at the corners of the building, between the coping and siding, or coping and brick. Is there any reveal or change in plane at these points? What does the transition look like? The applicant should provide information regarding these points and how they will be addressed.

Please see the attached file titled; Panda_VA_Herndon_Wall Sections for transitions between materials.

We have responded to all questions to the best of our ability at this time. Please feel free to call me if you have any questions.



Sincerely,

Richard Avery

Director of Design Renovations / Retail

- PEAK
21'-8 1/2" +/- A.F.F.
- T.O. SIDE PARAPET
19'-4" A.F.F.
- B.O. EAVE
14'-8" A.F.F.
- B.O. BAND
8'-2" A.F.F.
- FINISH FLOOR
0'-0" A.F.F.



MATERIAL NOTES

- | | |
|--|------------------------------------|
| 1 BRICK, GLACIER WHITE, MODULAR SIZE | 5 84" ROUND LOGO SIGN, ILLUMINATED |
| 2 COMPOSITE CLADDING; BAMBOO | 6 LETTERSET SIGN, ILLUMINATED |
| 3 EXISTING BRICK TO REMAIN (PAINTED BLACK) | |
| 4 BLACK STOREFRONT GLAZING | |



MATERIAL NOTES

- 1

BRICK, GLACIER WHITE, MODULAR SIZE
- 2

COMPOSITE CLADDING; BAMBOO
- 3

EXISTING BRICK TO REMAIN (PAINTED BLACK)
- 4

BLACK STOREFRONT GLAZING
- 5

WORDMARK SIGN, ILLUMINATED

- PEAK
21'-8 1/2" +/- A.F.F.
- T.O. SIDE PARAPET
19'-4" A.F.F.
- B.O. EAVE
14'-8" A.F.F.
- B.O. BAND
8'-2" A.F.F.
- FINISH FLOOR
0'-0" A.F.F.



MATERIAL NOTES

- | | |
|--|------------------------------------|
| 1 BRICK, GLACIER WHITE, MODULAR SIZE | 5 DRIVE-THRU WINDOW |
| 2 COMPOSITE CLADDING; BAMBOO | 6 60" ROUND LOGO SIGN, ILLUMINATED |
| 3 EXISTING BRICK TO REMAIN (PAINTED BLACK) | |
| 4 EXISTING BLACK STOREFRONT GLAZING | |



MATERIAL NOTES

- | | | | |
|---|--|---|----------------------------------|
| 1 | BRICK, GLACIER WHITE, MODULAR SIZE | 5 | 84" ROUND LOGO SIGN, ILLUMINATED |
| 2 | COMPOSITE CLADDING; BAMBOO | | |
| 3 | EXISTING BRICK TO REMAIN (PAINTED BLACK) | | |
| 4 | BLACK STOREFRONT GLAZING | | |



PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:

ISSUE DATE:

DRAWN BY:

PANDA PROJECT #:

PANDA STORE #:

ARCH PROJECT #:



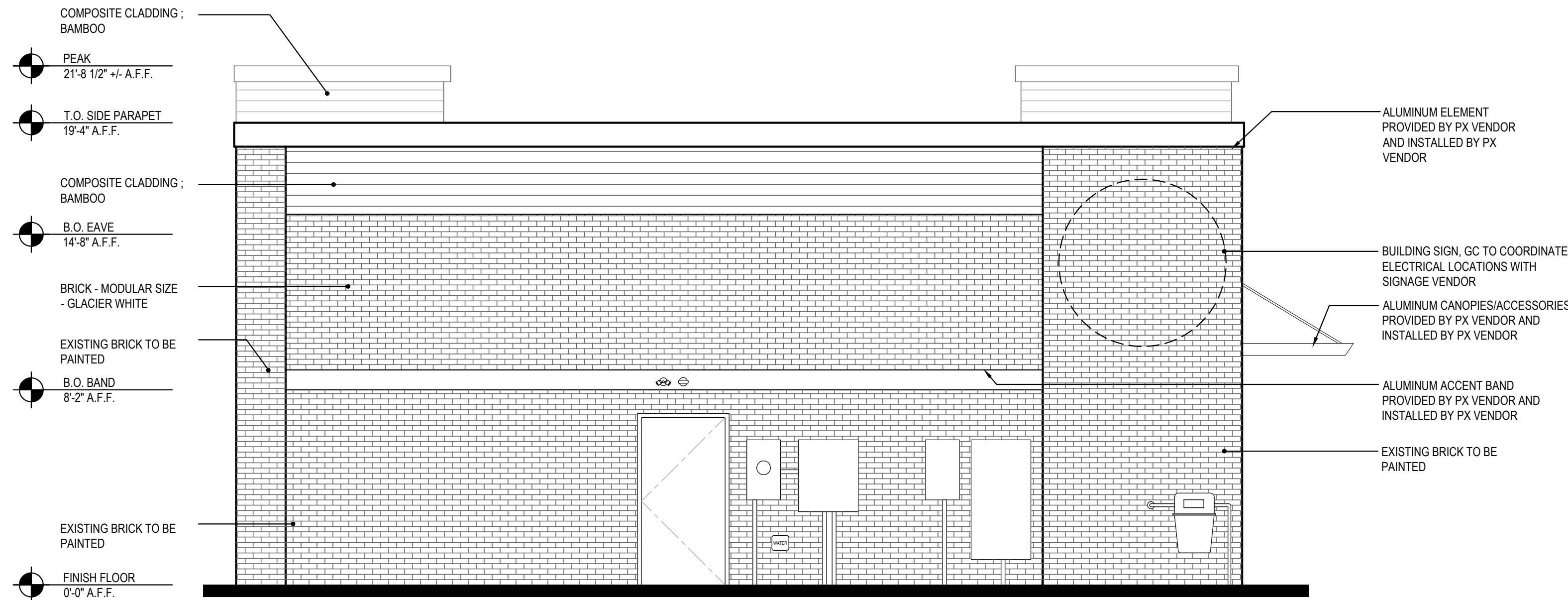
15450 S OUTER FORTY DRIVE, SUITE 300
CHESTERFIELD, MO 63017
636-898-8100

PANDA EXPRESS
PANDA
ELDEN ST & VAN BUREN ST
HERNDON, VA

A-200

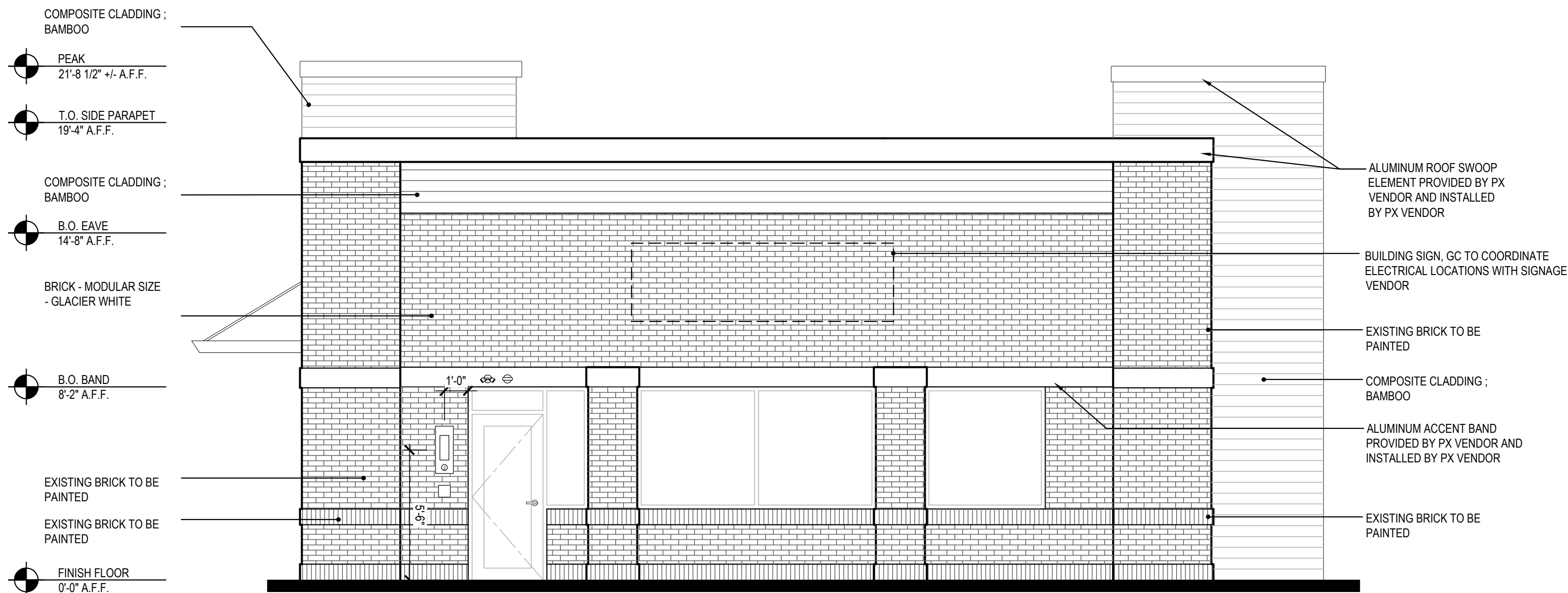
EXTERIOR
ELEVATIONS

PANDA



REAR ELEVATION 02

Scale= 1/4" = 1'-0" A-200



FRONT ELEVATION 01

Scale= 1/4" = 1'-0" A-200



REVISIONS:

ISSUE DATE: _____



NEWGROUND
 15450 S OUTER FORTY DRIVE, SUITE 300
 CHESTERFIELD, MO 63017
 636-898-8100

A-201

EXTERIOR
ELEVATIONS

ENTRY ELEVATION	02
Scale= 1/4" = 1'-0"	A-201





PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, CA 91770

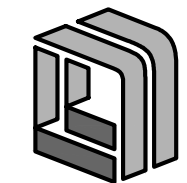
Telephone: 626.799.9898
Facsimile: 626.372.8288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:	
ISSUE DATE:	

DRAWN BY: YZENG

PANDA PROJECT #: S8-25-D30883
PANDA STORE #:
ARCH PROJECT #: Q51107-0051

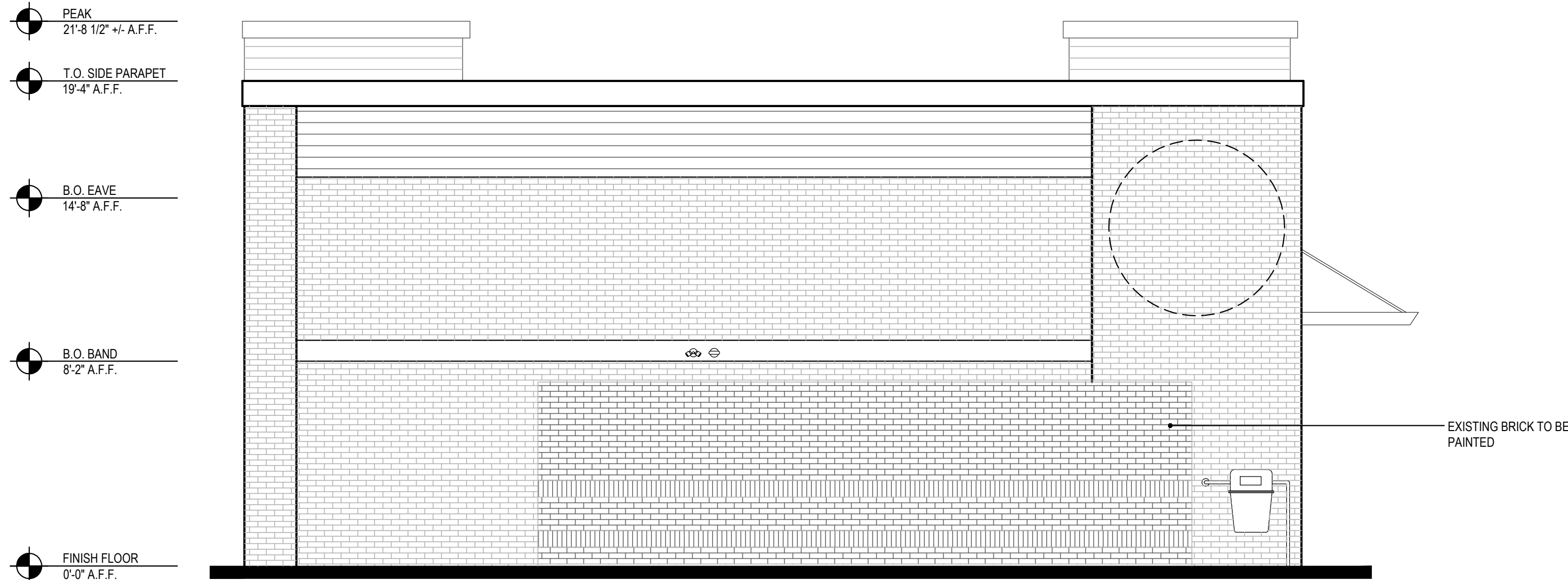
 **NEWGROUND**
125 S CLARK, SUITE 700
CHICAGO, IL 60603
636-898-8100

PANDA EXPRESS
PANDA HOME 2600
ELDEN ST & VAN BUREN ST
HERNDON, VA, 20170

A-202

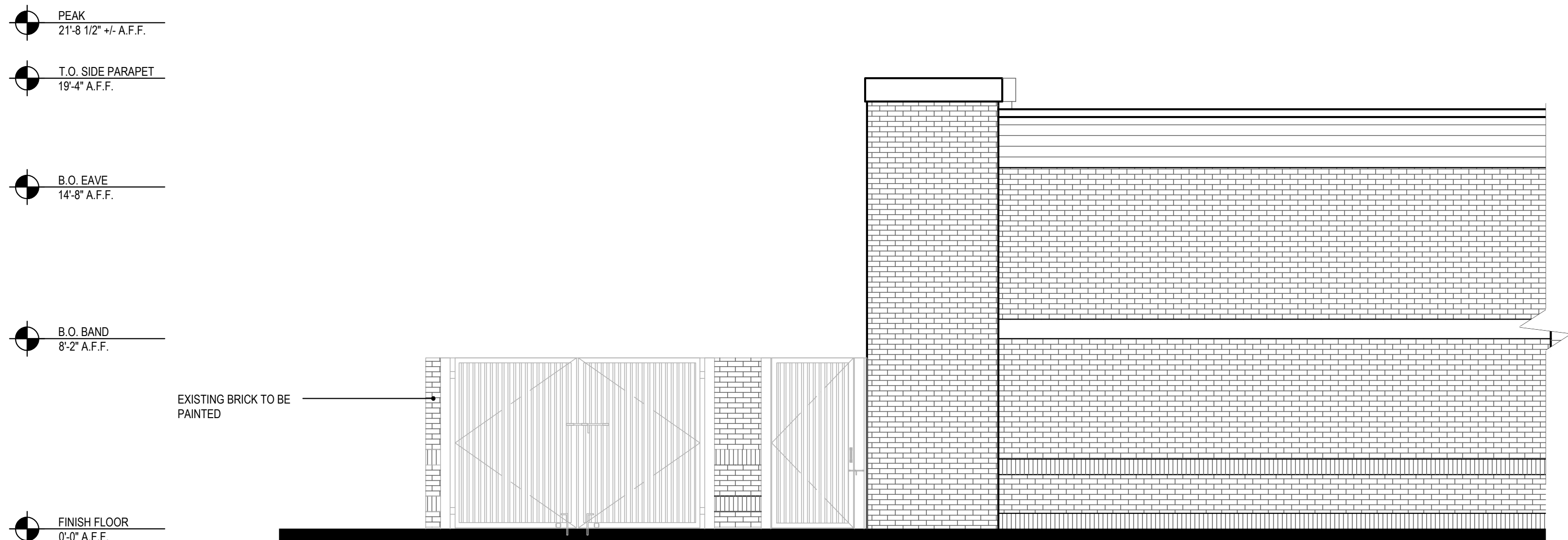
EXTERIOR
ELEVATIONS

PANDA HOME



REAR ELEVATION 02

Scale= 1/4" = 1'-0" A-202



DRIVE THROUGH ELEVATION 01

Scale= 1/4" = 1'-0" A-202

NEWGROUND

DESIGN PRESENTATION

PANDA EXPRESS | HERNDON, VA | SEPTEMBER 18, 2024



Panda.
Restaurant Group, Inc.

APPLICANT



NEWGROUND

ARCHITECTURE
& DESIGN

















EXISTING BUILDING ELEVATIONS



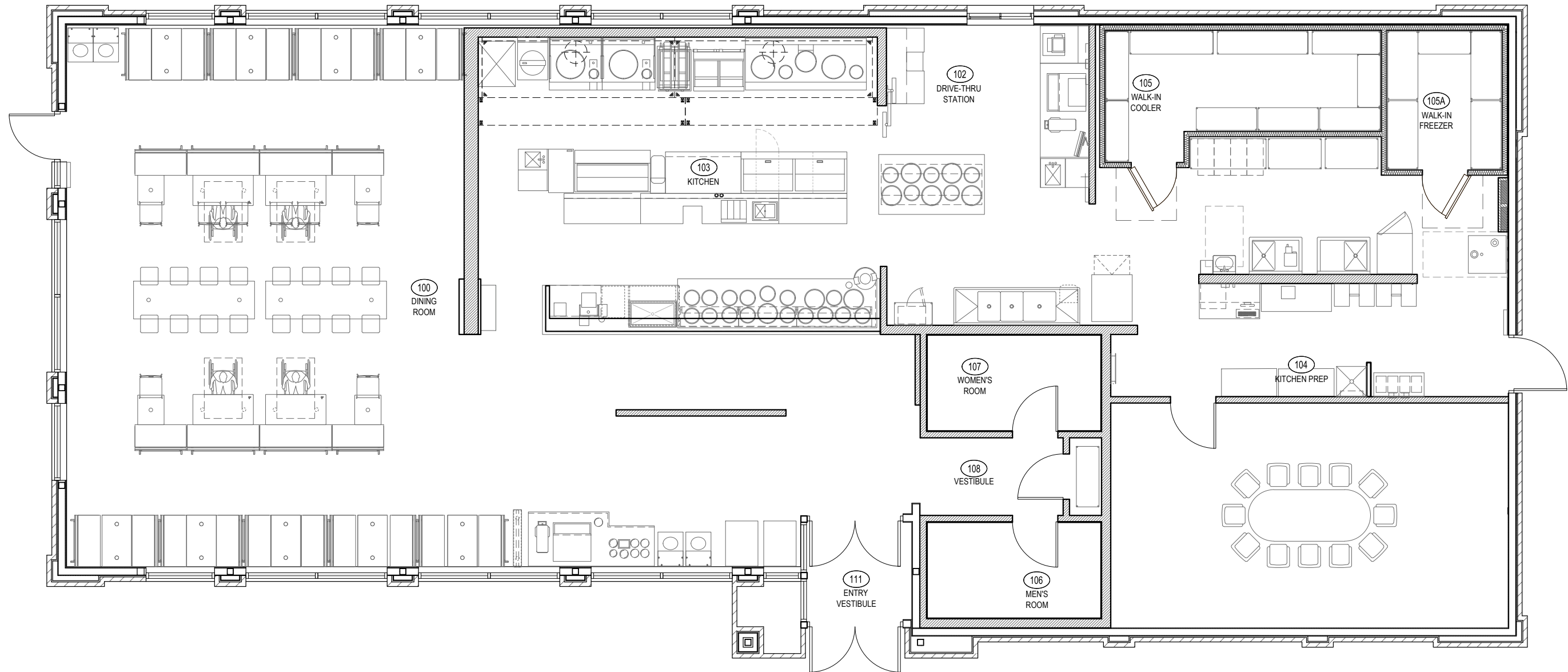




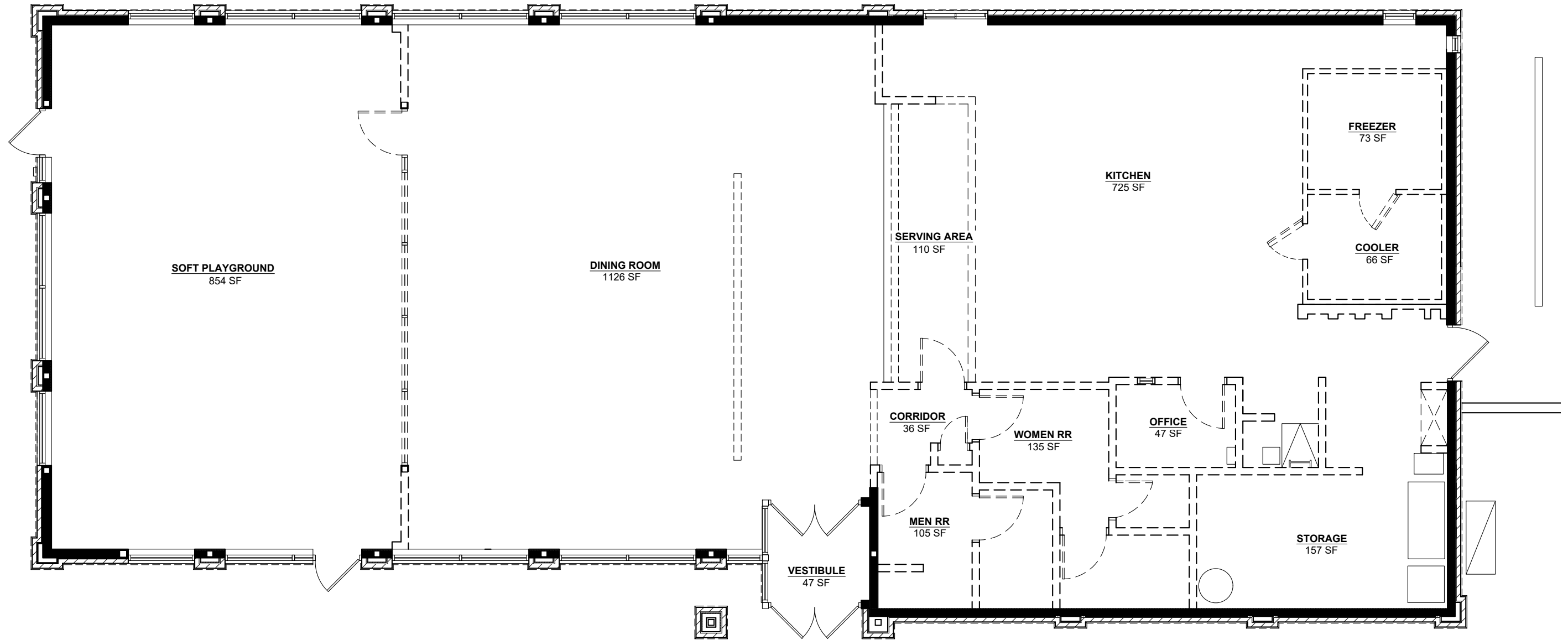


EXISTING BUILDING ELEVATIONS

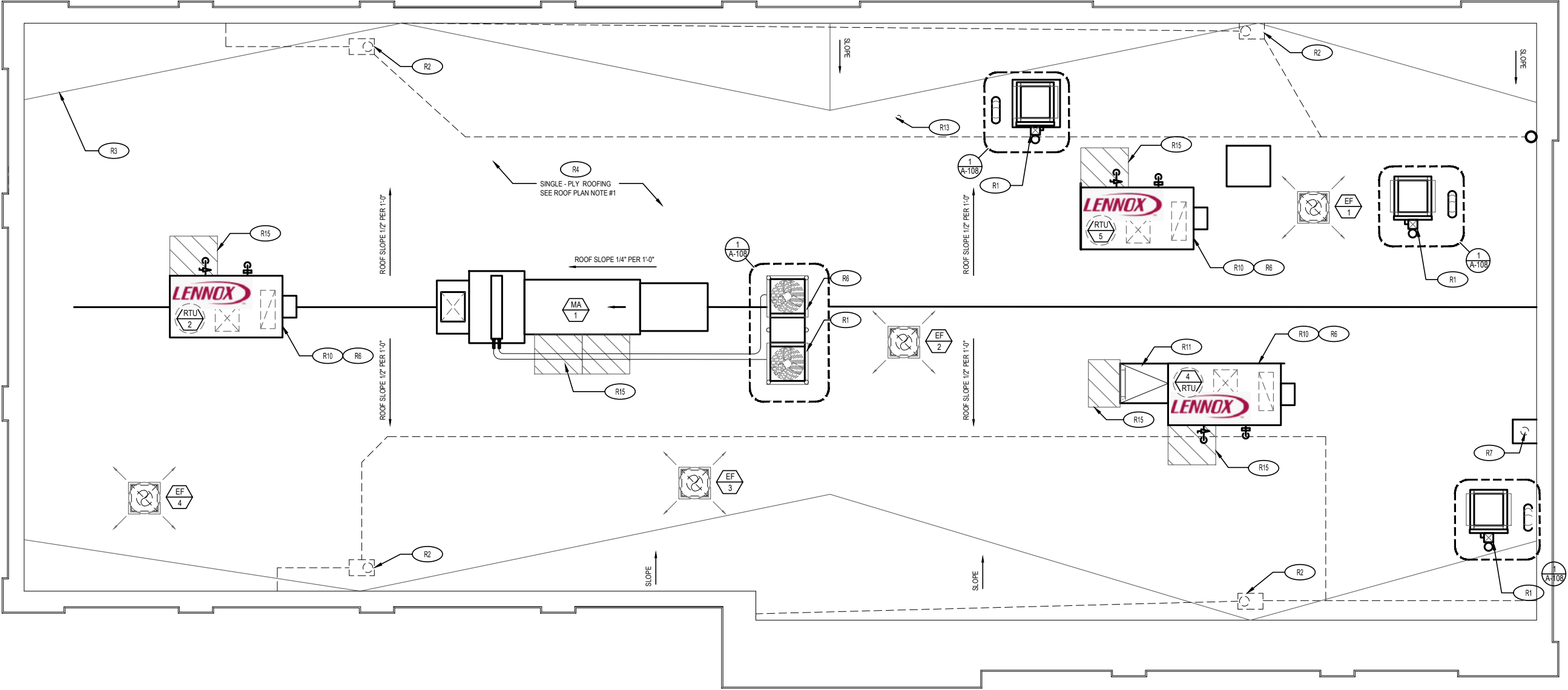




PROPOSED FLOOR PLAN



EXISTING FLOOR PLAN



SCHEMATIC ROOF PLAN



MATERIAL NOTES

- | | | | |
|---|------------------------------------|---|----------------------------------|
| 1 | BRICK, GLACIER WHITE, MODULAR SIZE | 5 | 84" ROUND LOGO SIGN, ILLUMINATED |
| 2 | COMPOSITE CLADDING; BAMBOO | 6 | LETTERSET SIGN, ILLUMINATED |
| 3 | EXISTING BRICK TO REMAIN (BLACK) | | |
| 4 | BLACK STOREFRONT GLAZING | | |



MATERIAL NOTES

- 1 BRICK, GLACIER WHITE, MODULAR SIZE
- 2 COMPOSITE CLADDING; BAMBOO
- 3 EXISTING BRICK TO REMAIN (BLACK)
- 4 BLACK STOREFRONT GLAZING
- 5 WORDMARK SIGN, ILLUMINATED



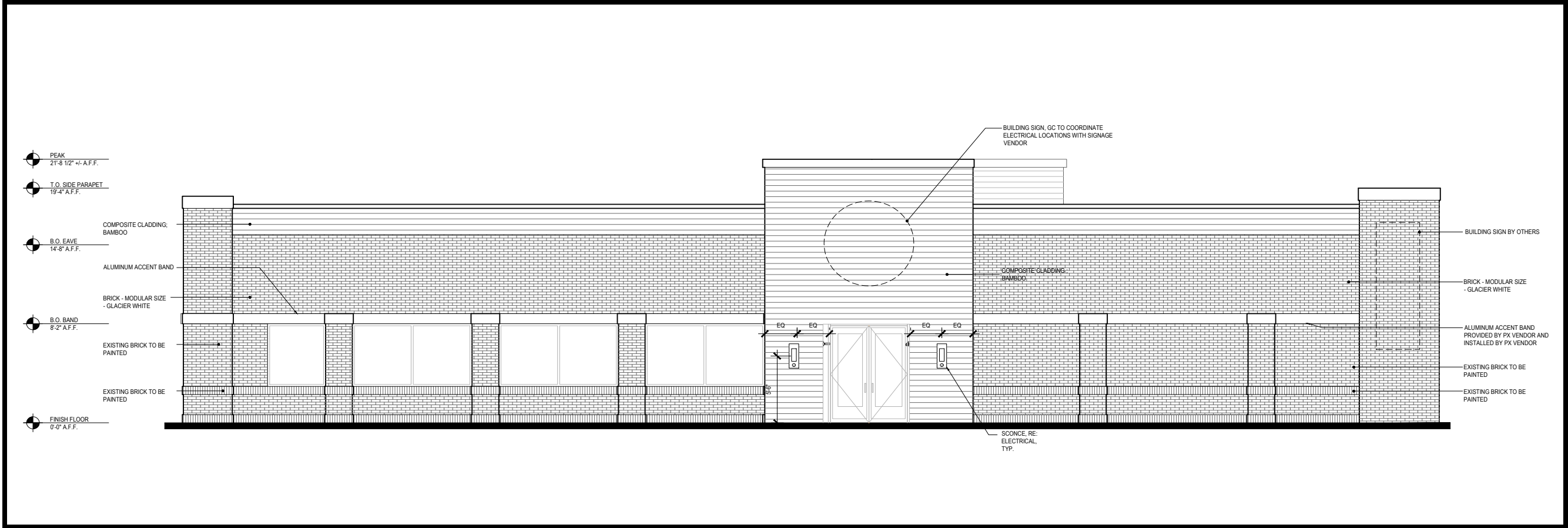
MATERIAL NOTES

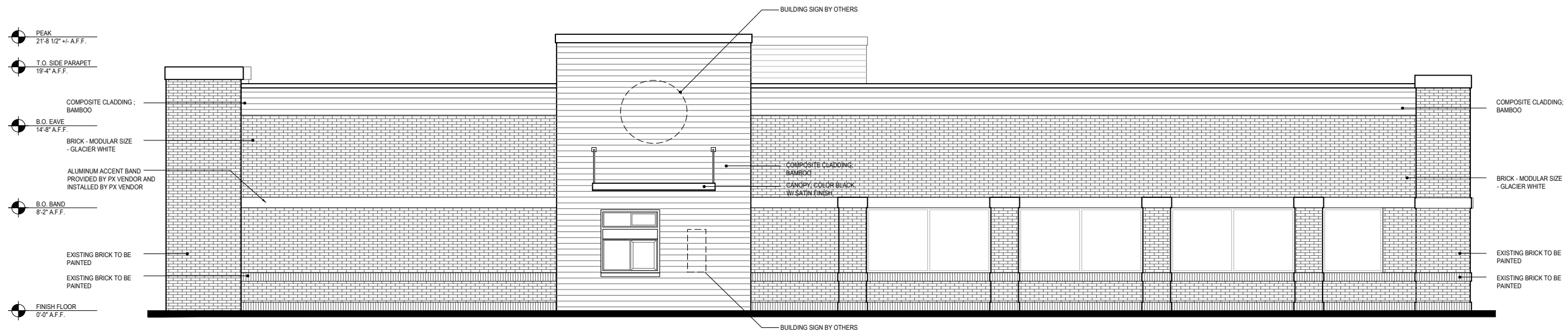
- | | | | |
|---|------------------------------------|---|----------------------------------|
| 1 | BRICK, GLACIER WHITE, MODULAR SIZE | 5 | DRIVE-THRU WINDOW |
| 2 | COMPOSITE CLADDING; BAMBOO | 6 | 60" ROUND LOGO SIGN, ILLUMINATED |
| 3 | EXISTING BRICK TO REMAIN (BLACK) | | |
| 4 | EXISTING BLACK STOREFRONT GLAZING | | |



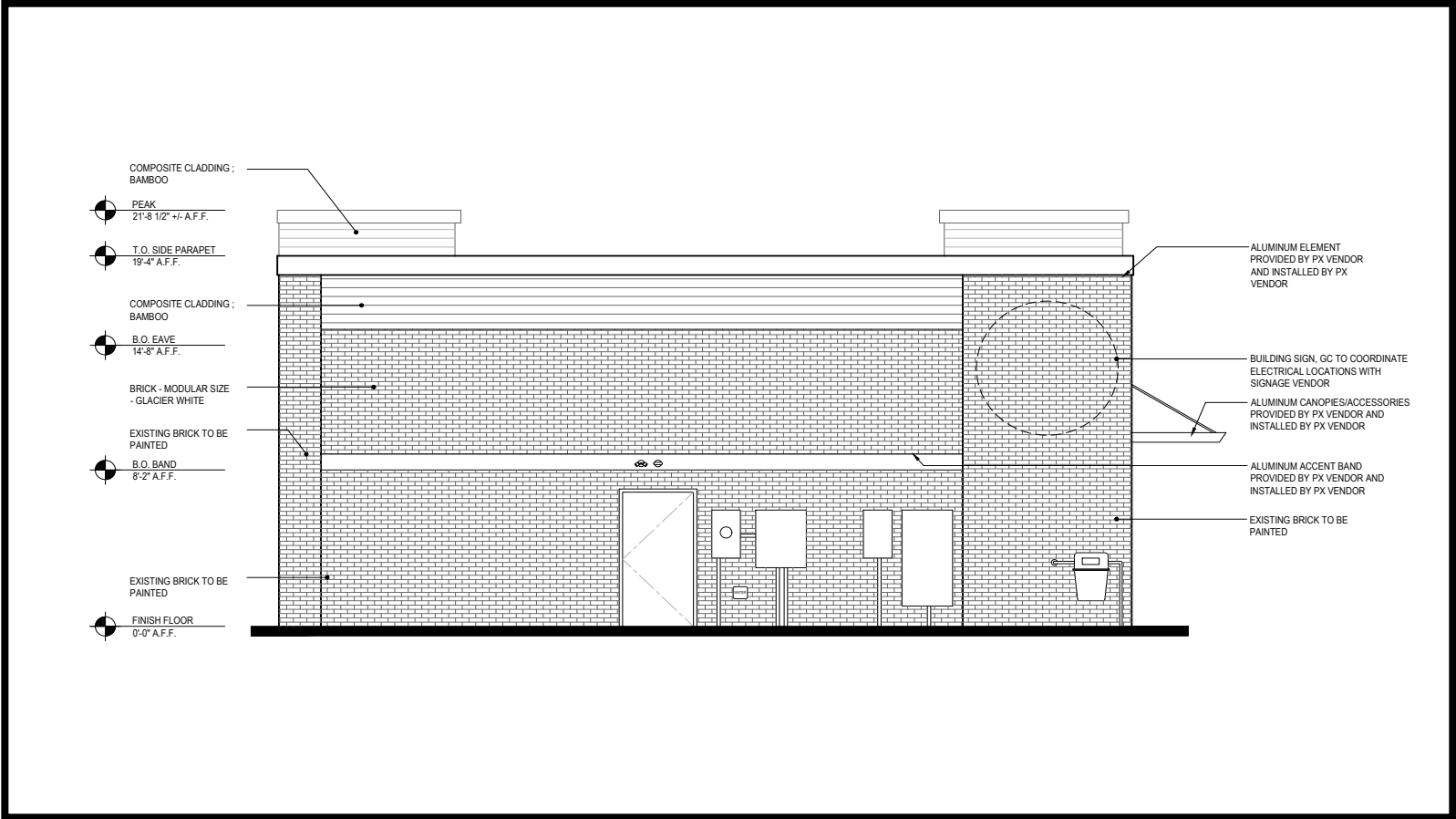
MATERIAL NOTES

- 1 BRICK, GLACIER WHITE, MODULAR SIZE 5 84" ROUND LOGO SIGN, ILLUMINATED
- 2 COMPOSITE CLADDING; BAMBOO
- 3 EXISTING BRICK TO REMAIN (BLACK)
- 4 BLACK STOREFRONT GLAZING

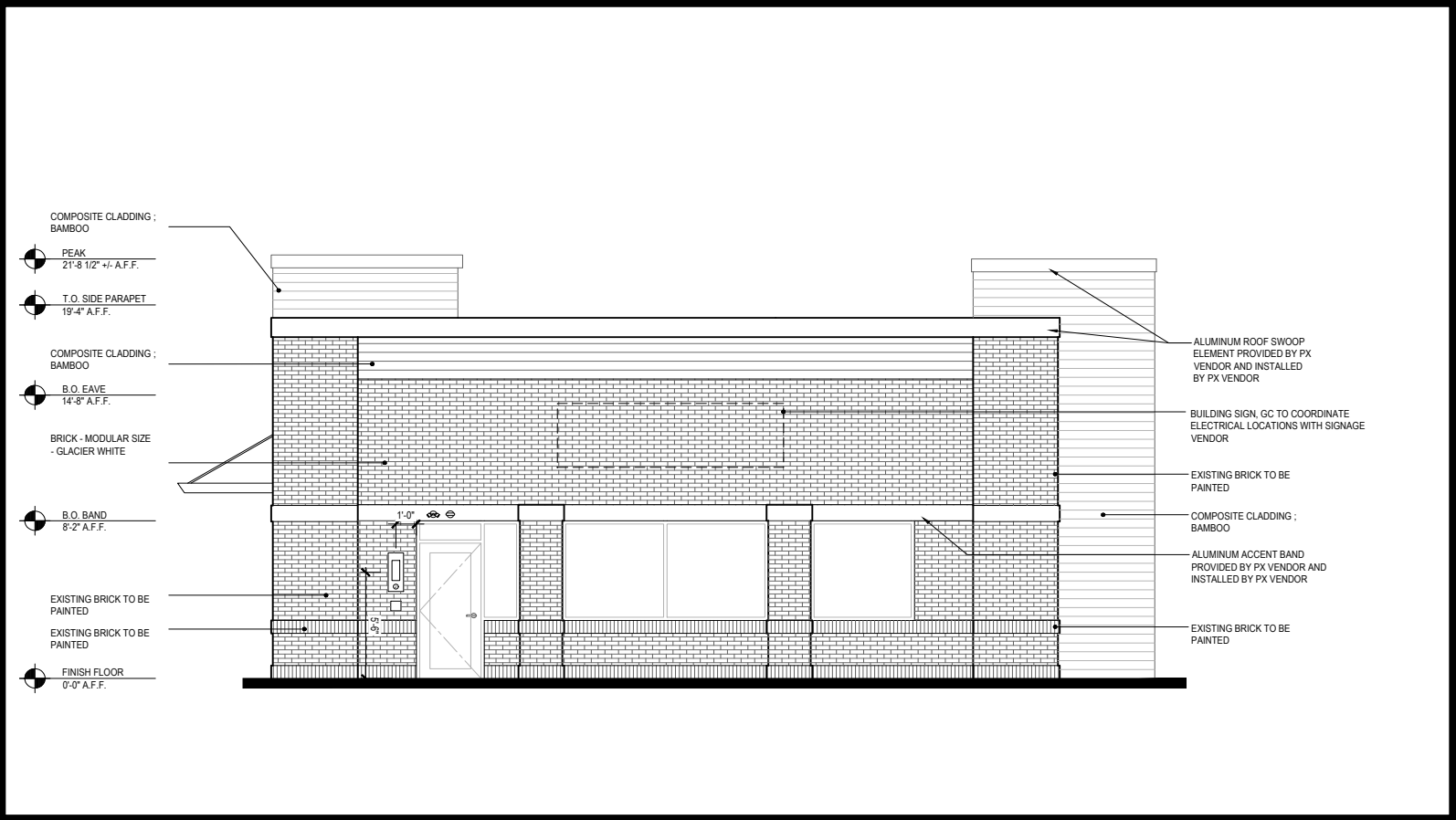


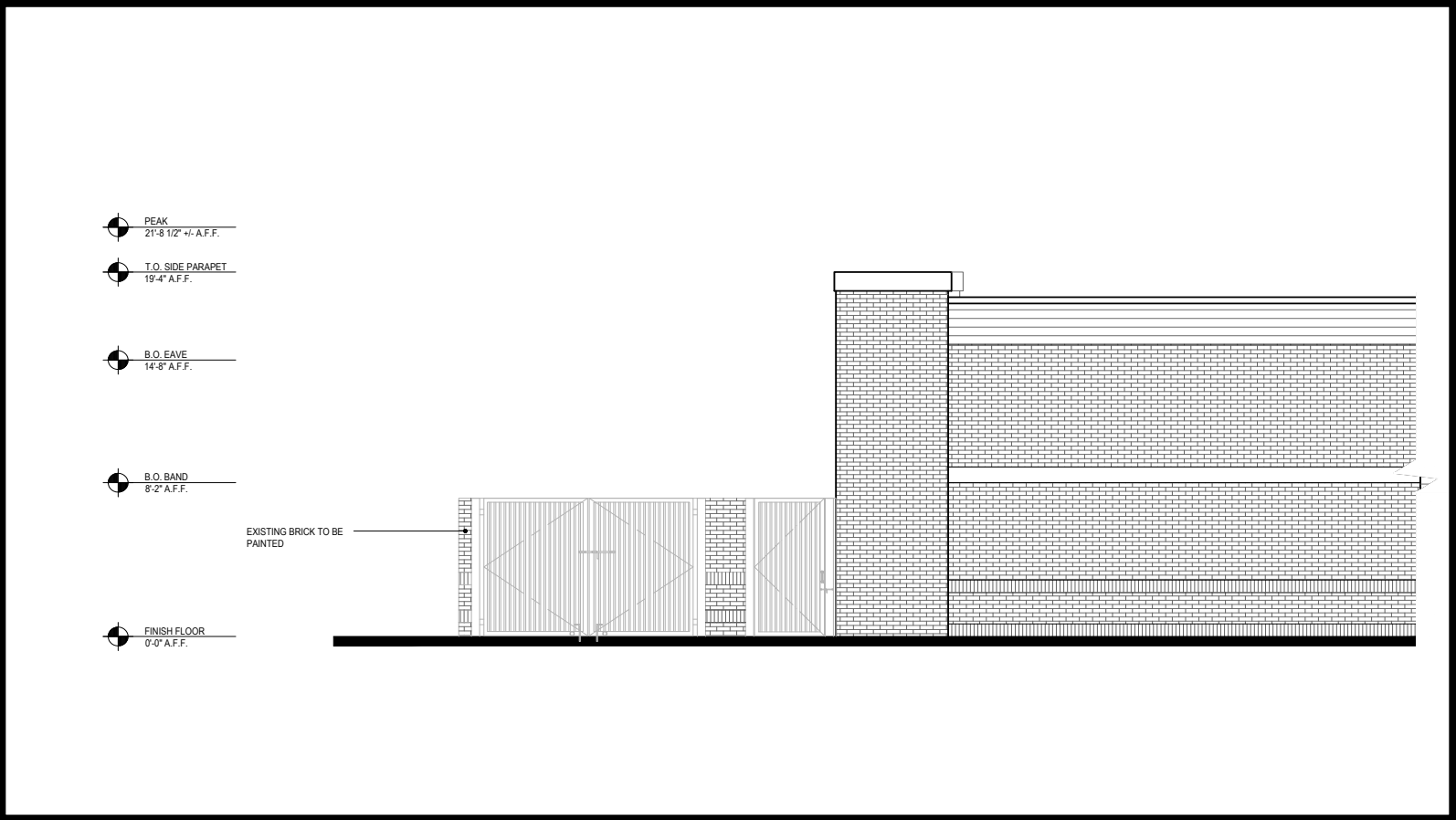


PROPOSED BUILDING ELEVATIONS

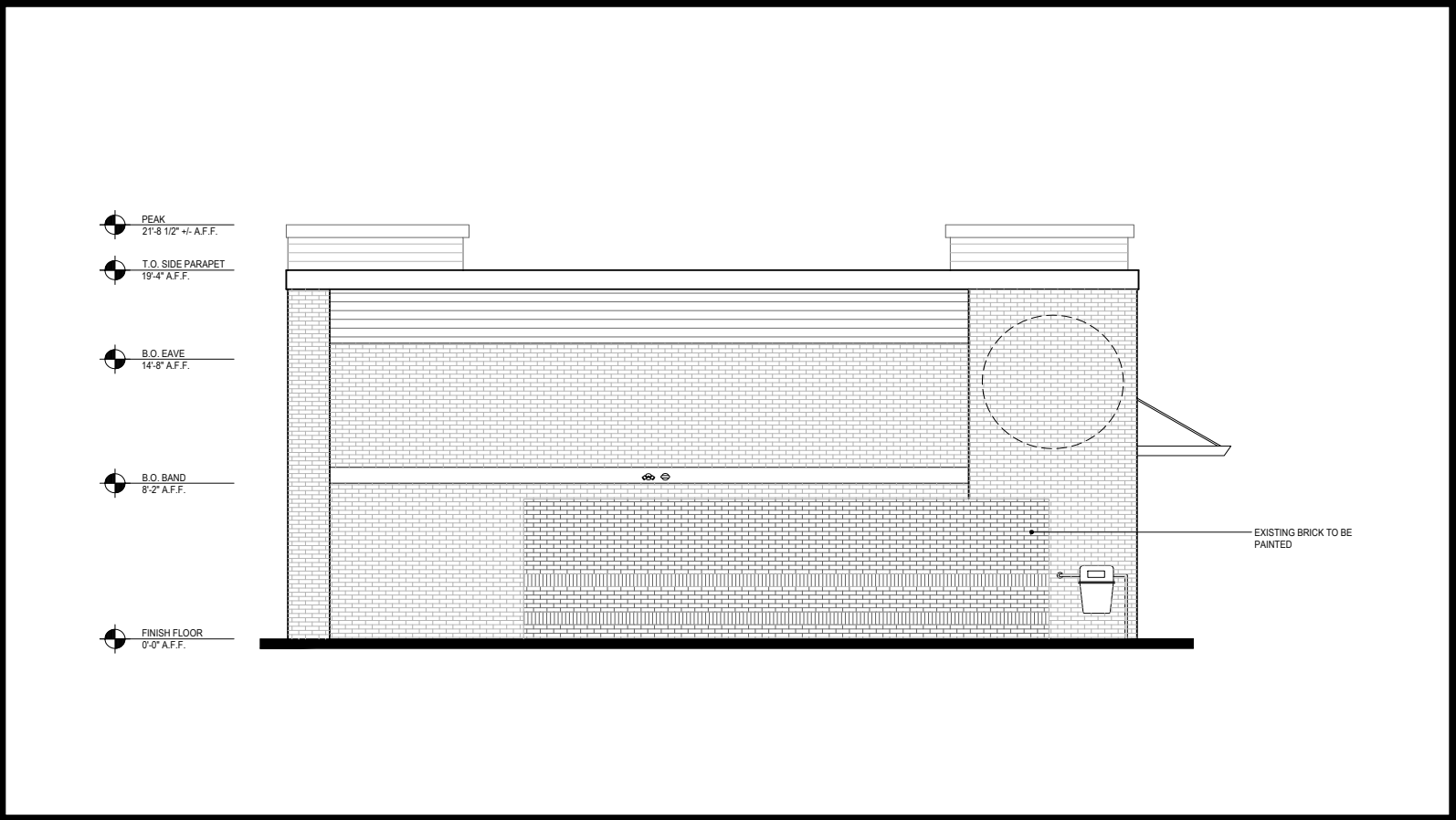


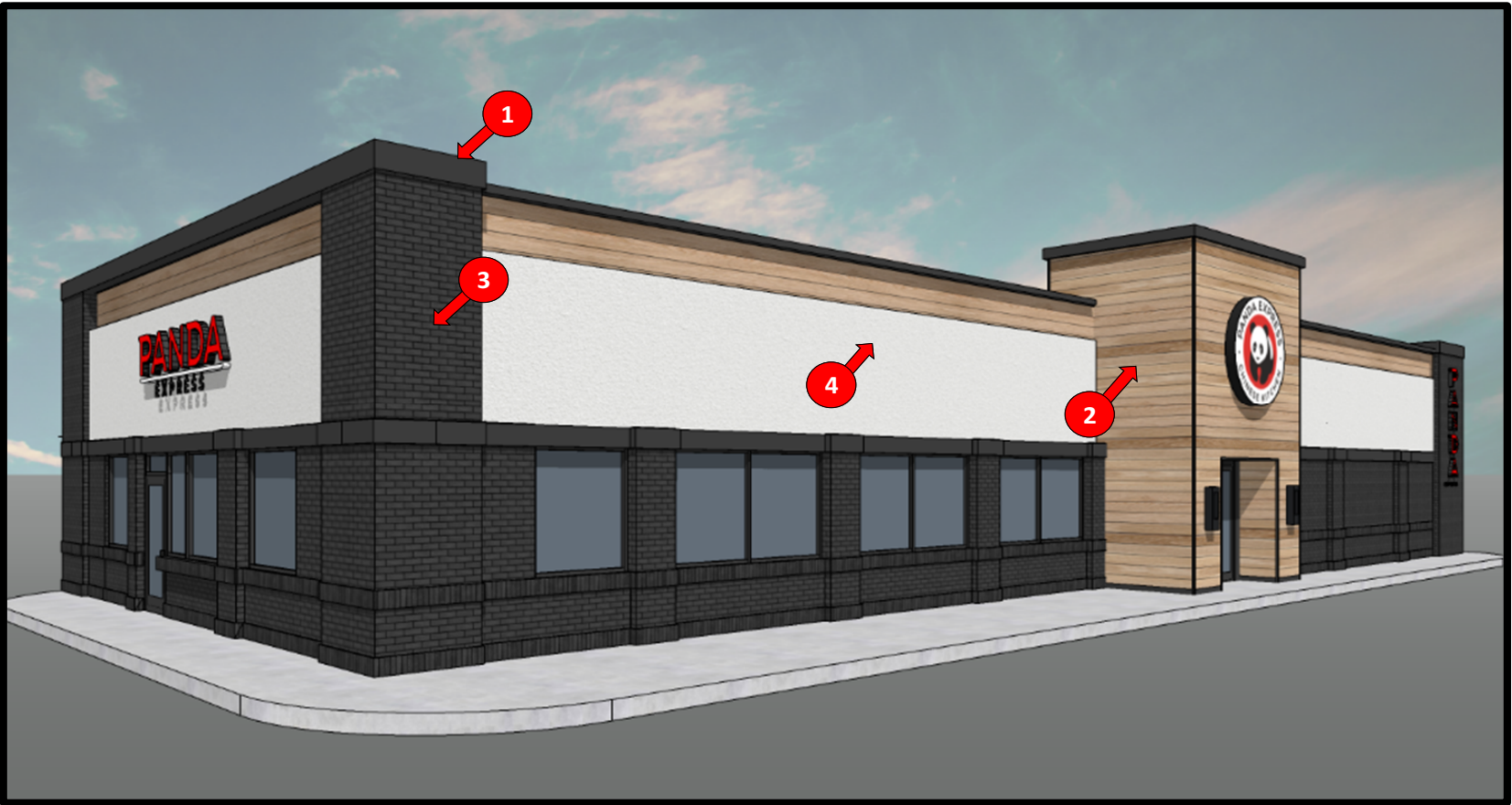
PROPOSED BUILDING ELEVATIONS





PROPOSED BUILDING ELEVATIONS





1

METAL TRIM PMS BLACK 7C



2

FIBERON- BAMBOO



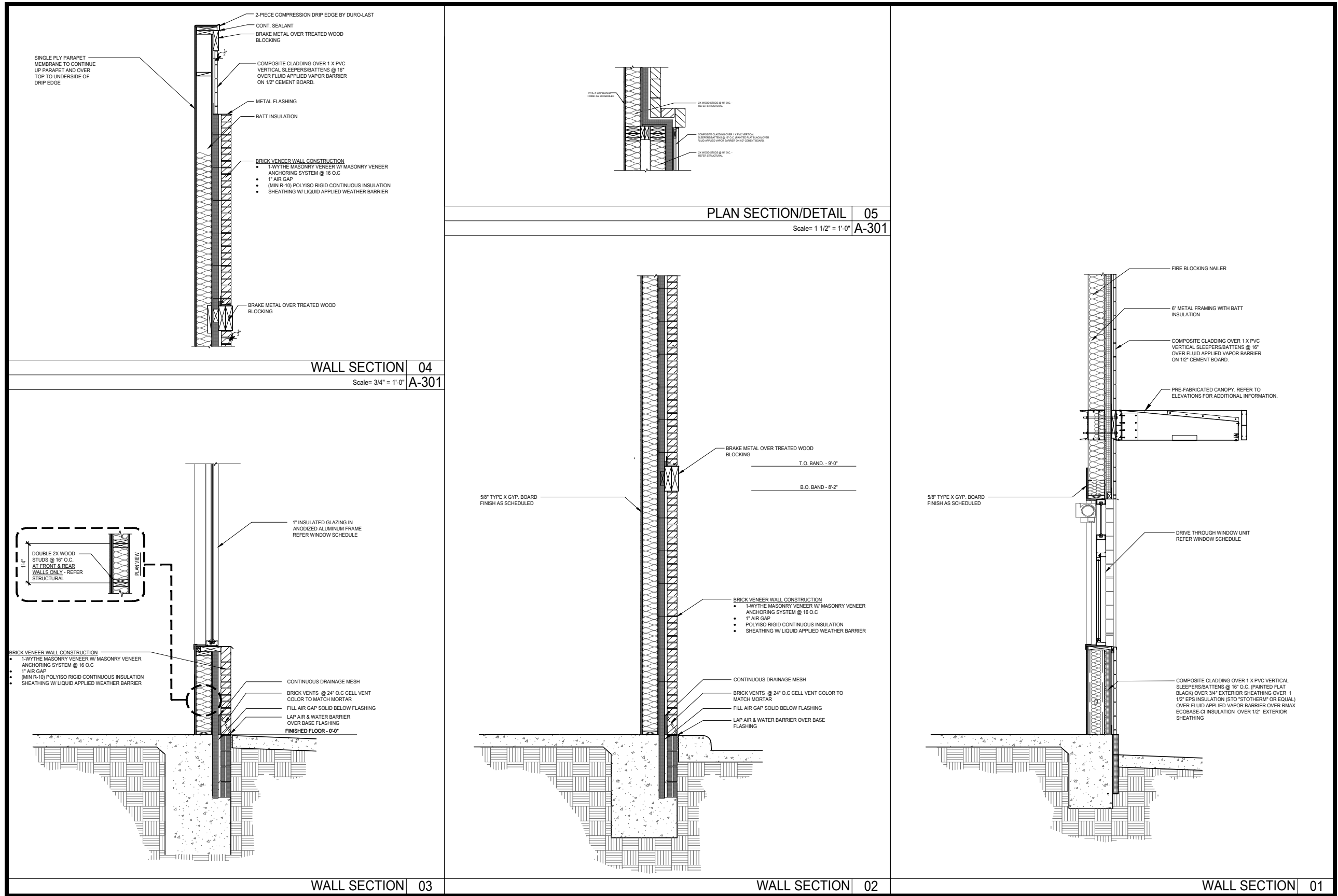
3

BRICK COLOR- SW 7069
IRON ORE



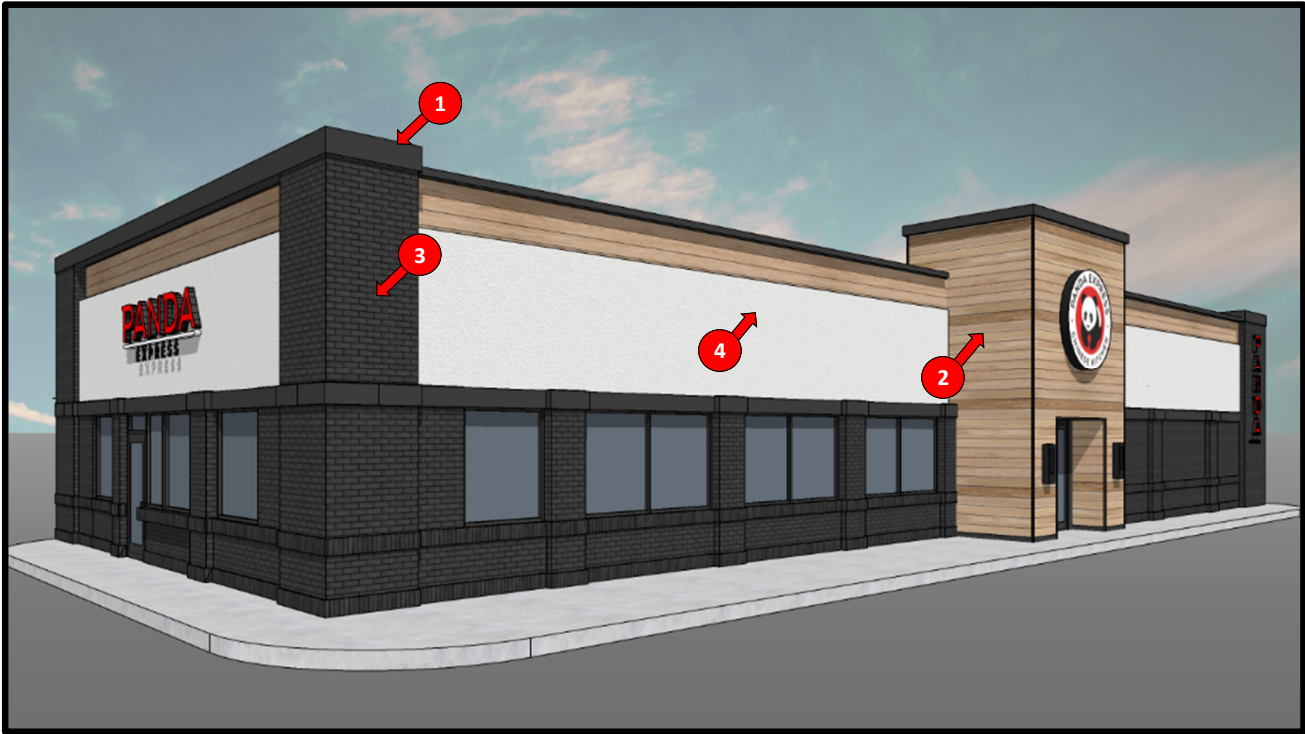
4

BRICK COLOR- ACME BRICK
GLACIER WHITE



THANK YOU!
NEWGROUND

MATERIAL BOARD- PANDA EXPRESS



METAL TRIM PMS BLACK 7C



FIBERON- BAMBOO



BRICK COLOR- SW 7069
IRON ORE



BRICK COLOR- ACME BRICK
GLACIER WHITE



PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:	

ISSUE DATE:	

DRAWN BY:

PANDA PROJECT #:
PANDA STORE #:
ARCH PROJECT #:



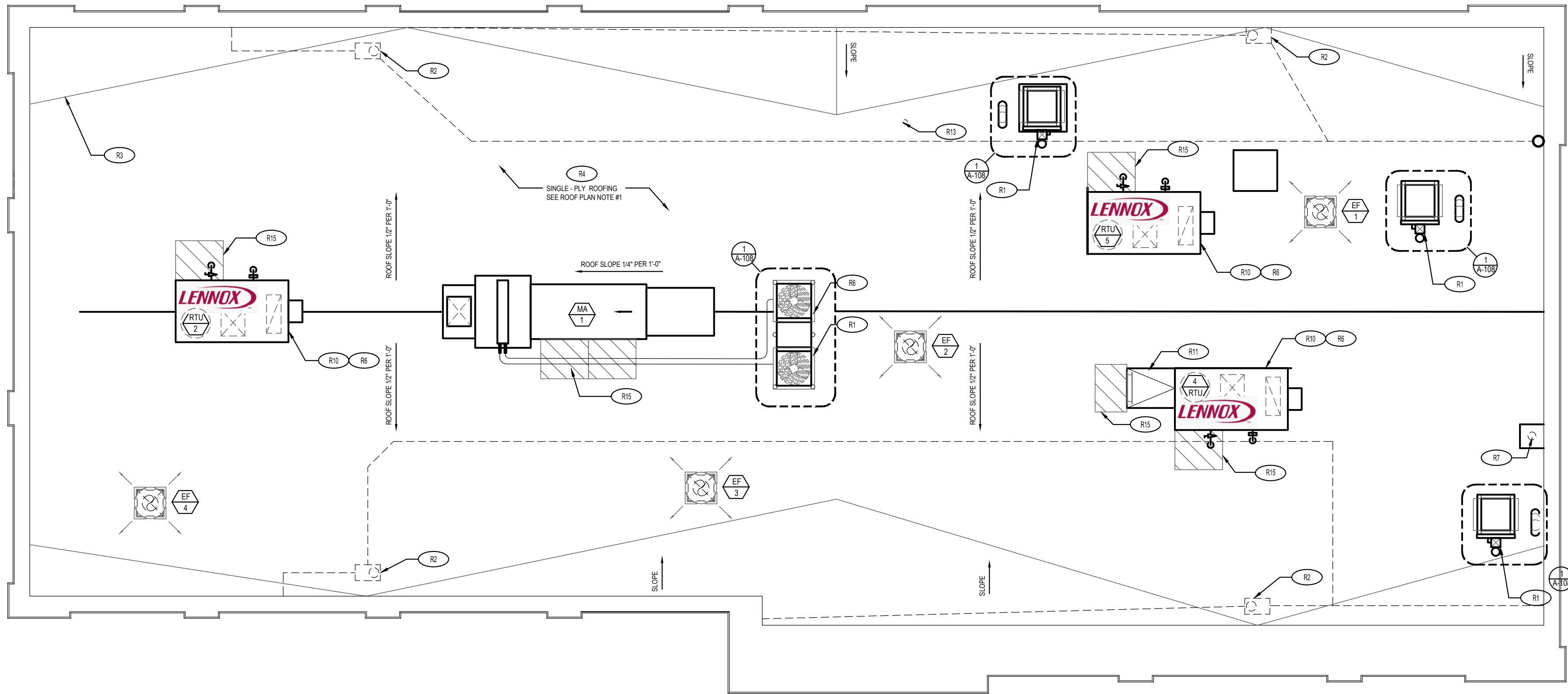
15450 S OUTER FORTY DRIVE, SUITE 300
CHESTERFIELD, MO 63017
636-898-8100

PANDA EXPRESS
PANDA
ELDEN ST & VAN BUREN ST
HERNDON, VA

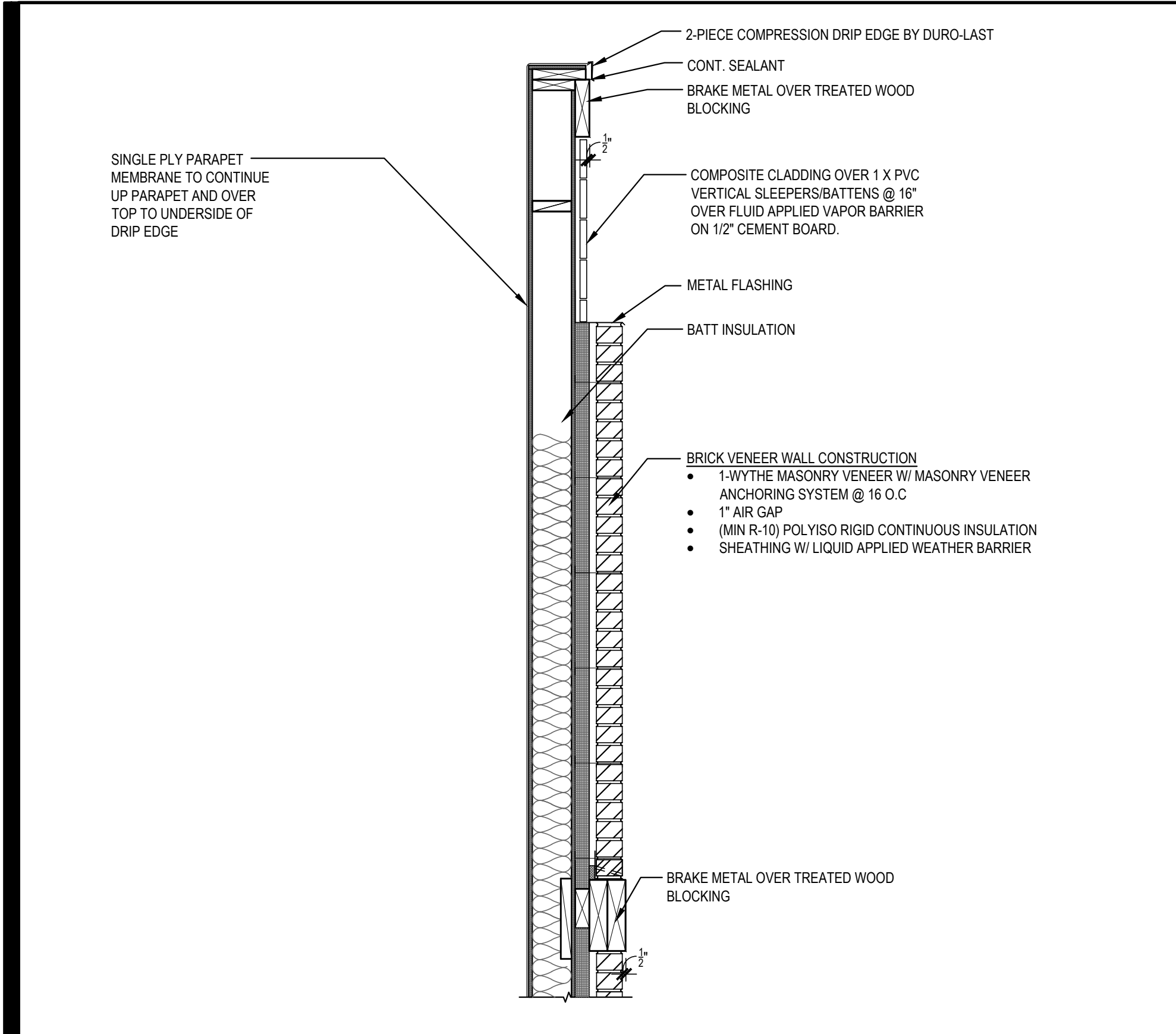
A-107

ROOF PLAN

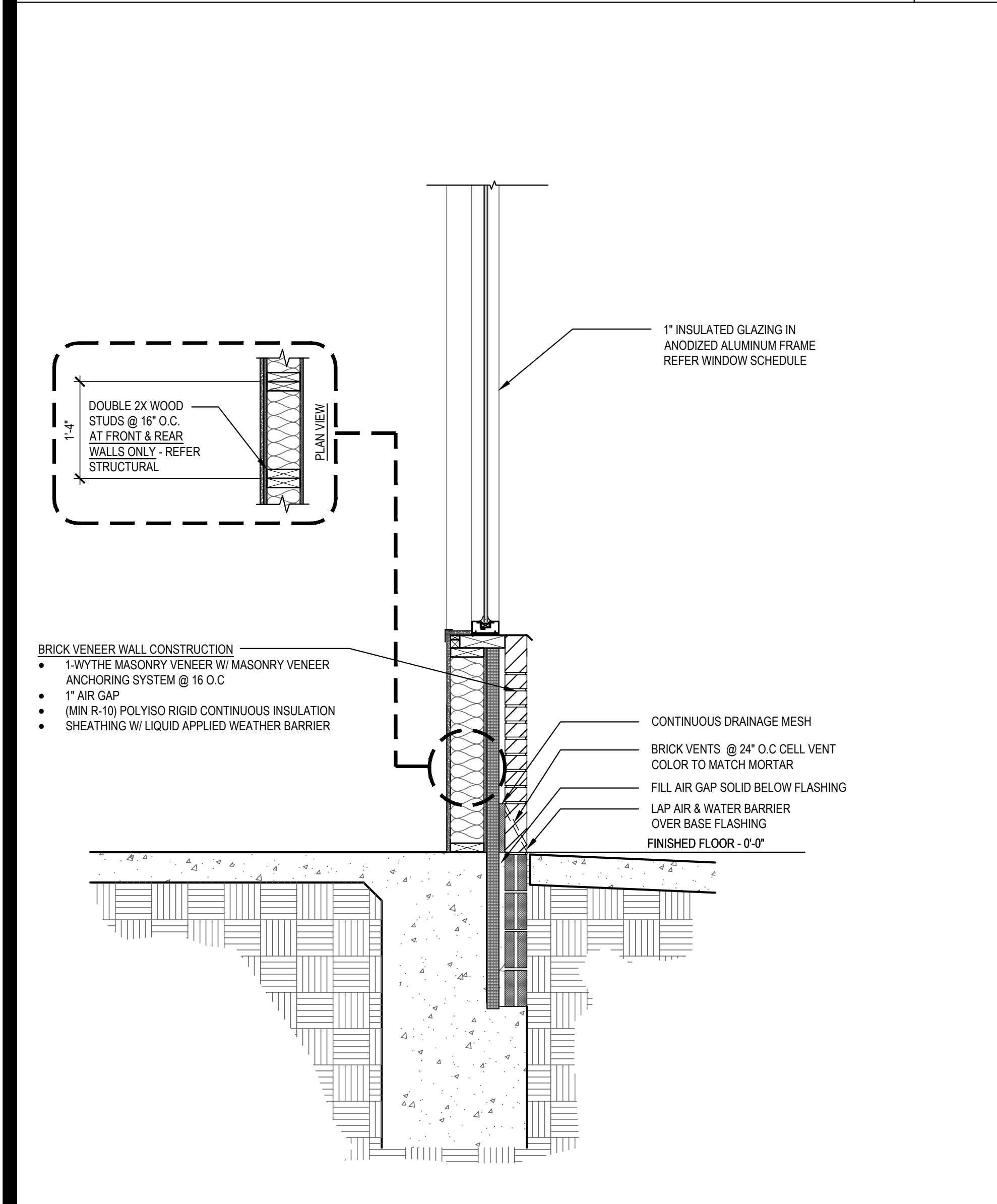
PANDA



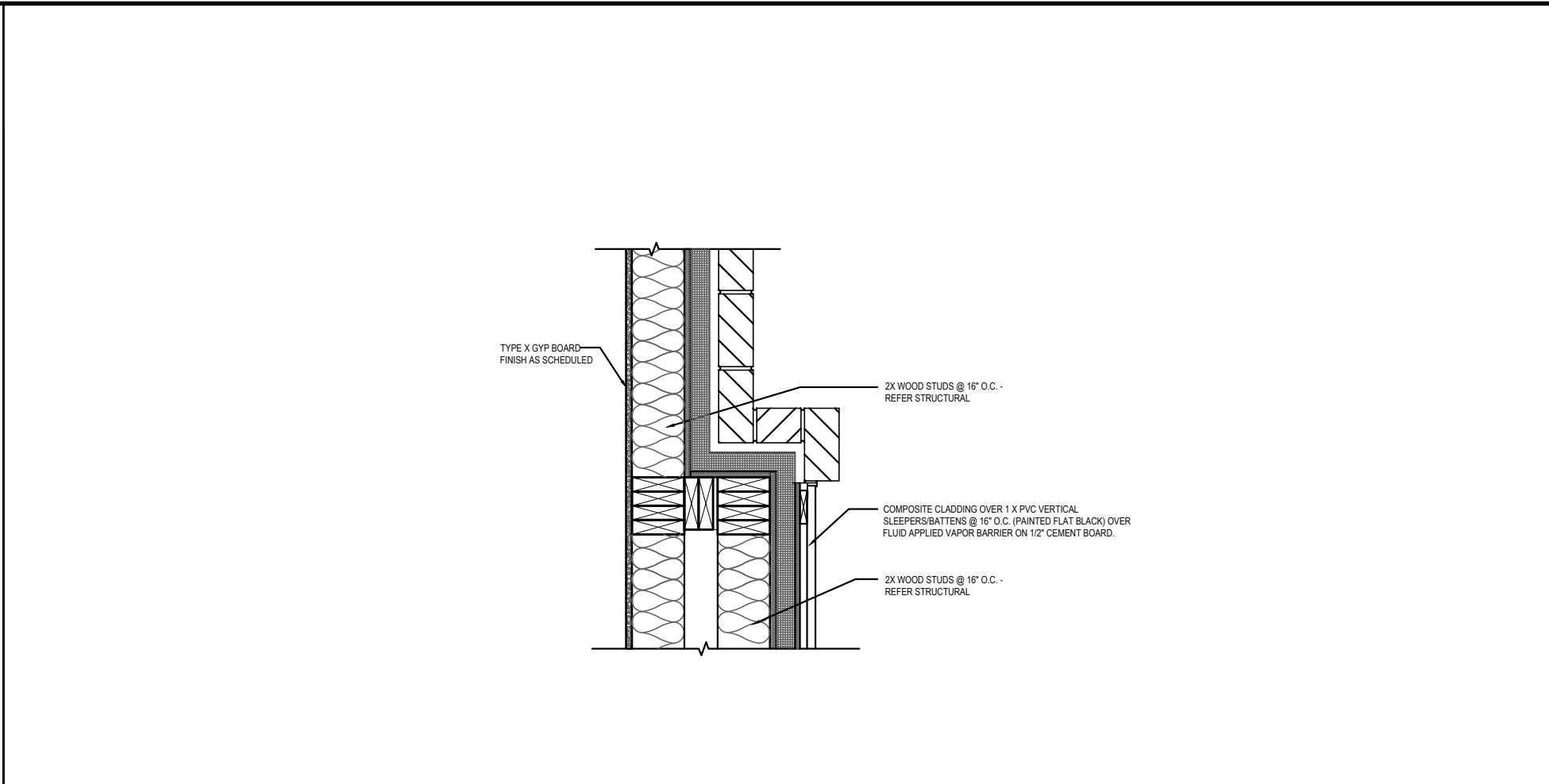
ROOF PLAN 01
Scale= 3/16" = 1'-0" A-101



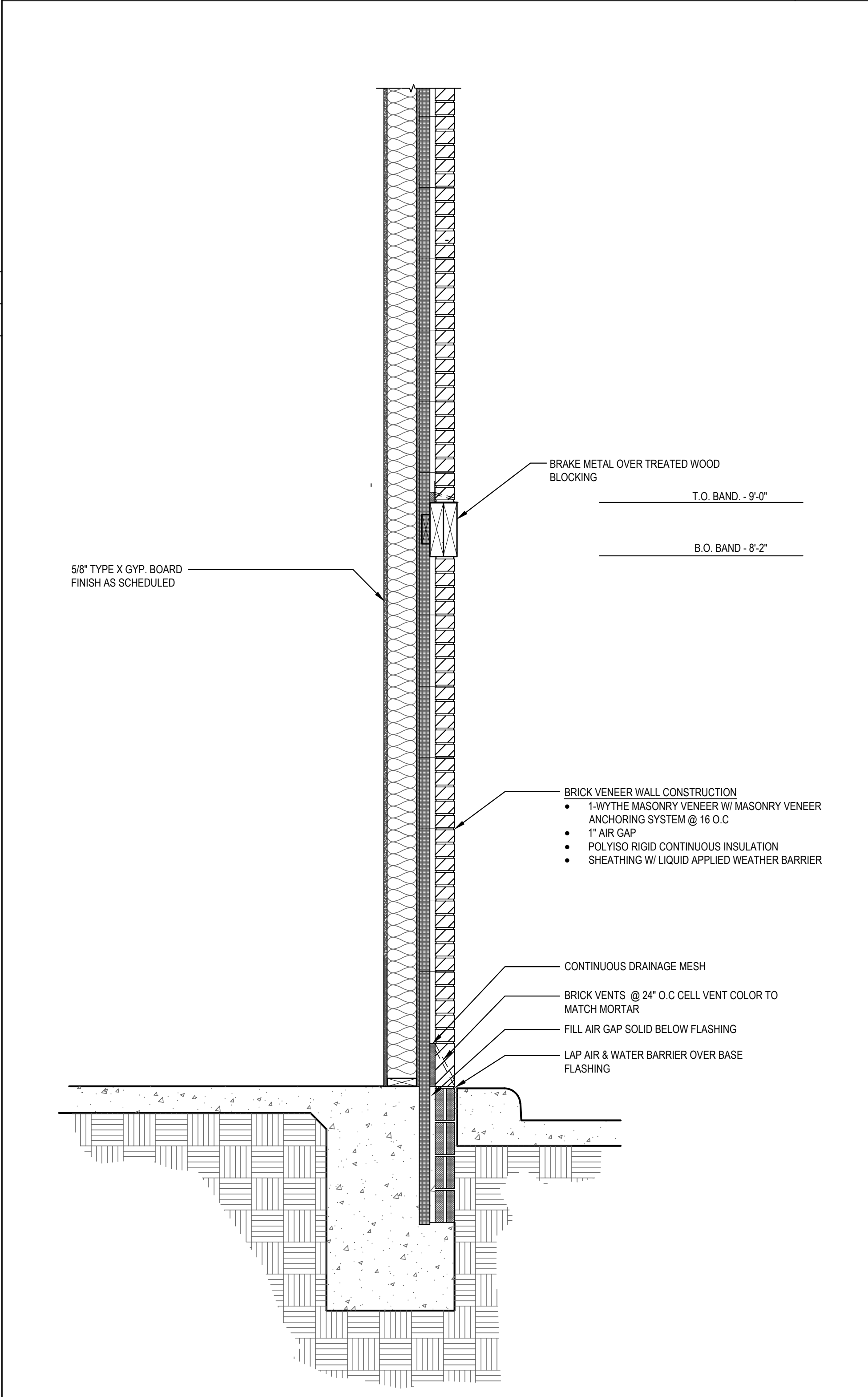
WALL SECTION 04
Scale= 3/4" = 1'-0" A-301



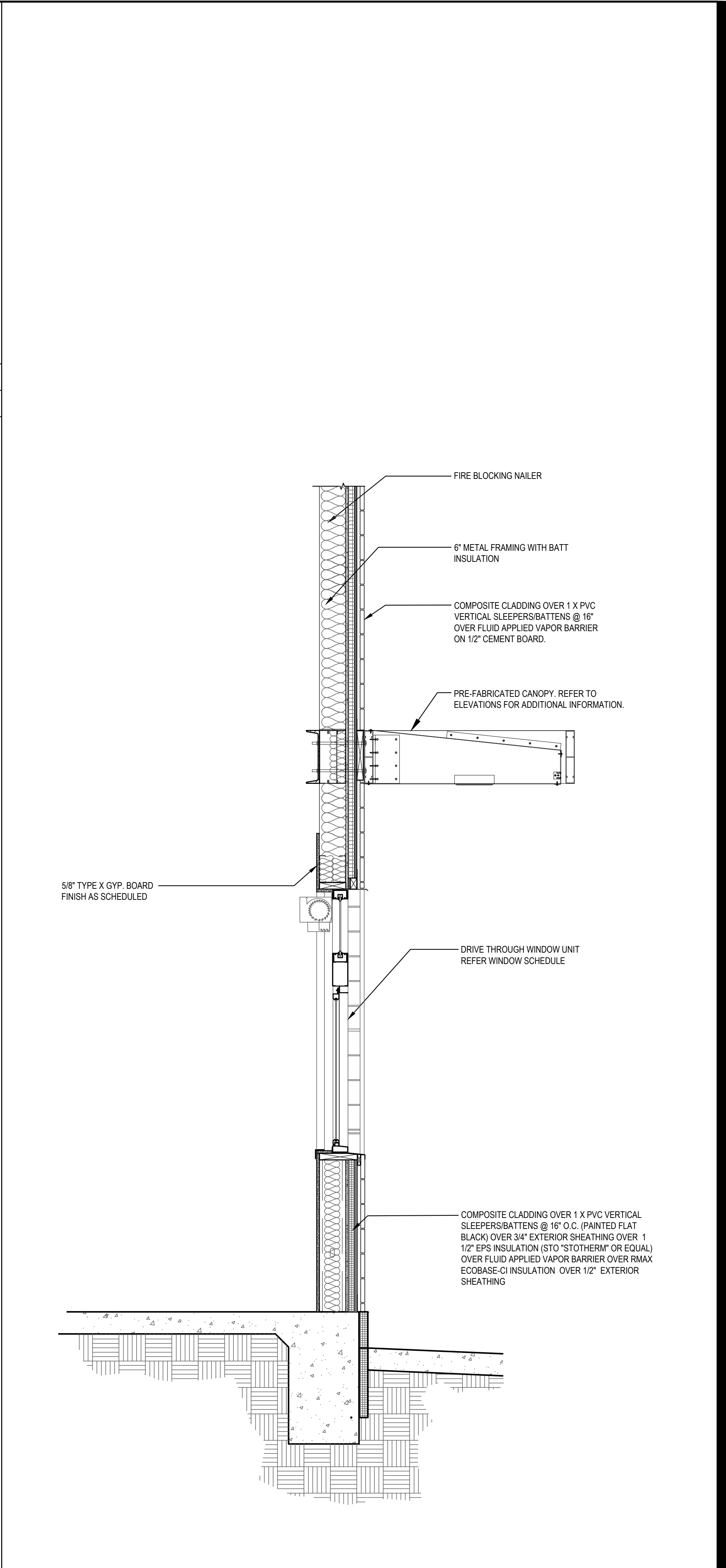
WALL SECTION 03
Scale= 3/4" = 1'-0" A-301



PLAN SECTION/DETAIL 05
Scale= 1 1/2" = 1'-0" A-301



WALL SECTION 02
Scale= 3/4" = 1'-0" A-301



WALL SECTION 01
Scale= 3/4" = 1'-0" A-301



PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:	

ISSUE DATE:	

DRAWN BY:

PANDA PROJECT #:
PANDA STORE #:
ARCH PROJECT #:

 **NEWGROUND**
15450 S OUTER FORTY DRIVE, SUITE 300
CHESTERFIELD, MO 63017
636-898-8100

PANDA EXPRESS
PANDA
ELDEN ST & VAN BUREN ST
HERNDON, VA

A-301

WALL SECTIONS



PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:

ISSUE DATE:

DRAWN BY:

PANDA PROJECT #:

PANDA STORE #:

ARCH PROJECT #:



NEWGROUND

15450 S OUTER FORTY DRIVE, SUITE 300
CHESTERFIELD, MO 63017
636-898-8100

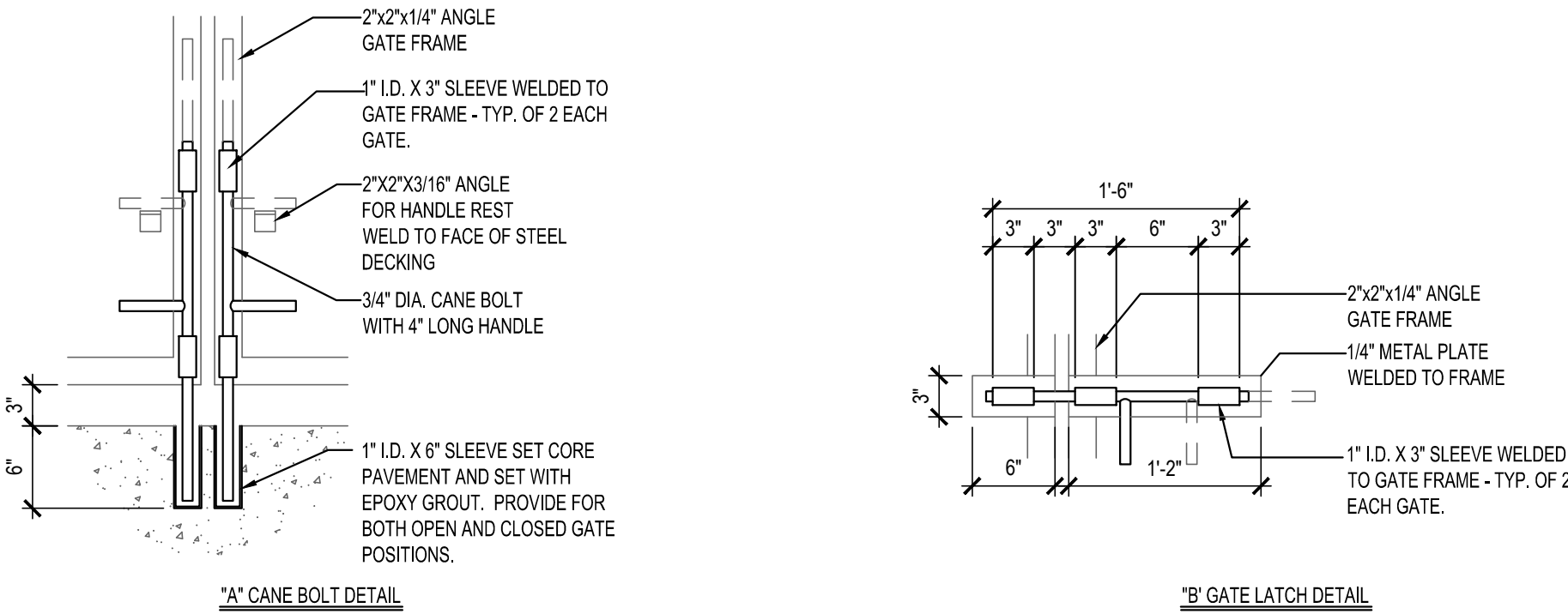
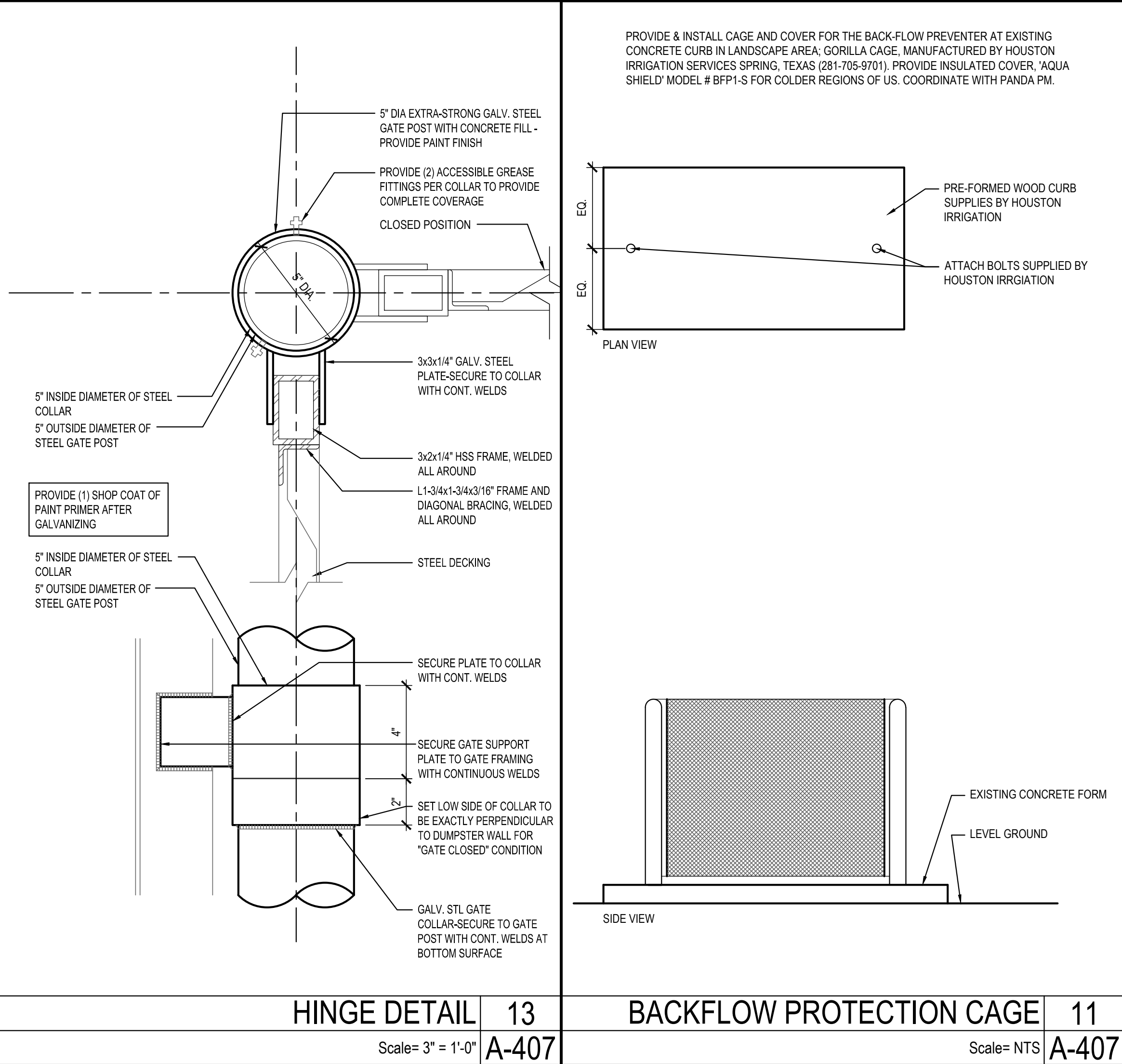
PANDA EXPRESS

PANDA
ELDEN ST & VAN BUREN ST
HERNDON, VA

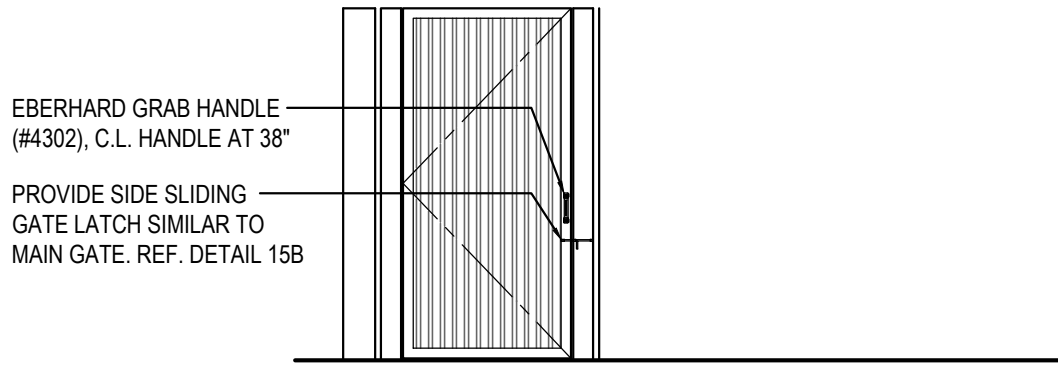
A-407

TRASH ENCLOSURE
DETAILS

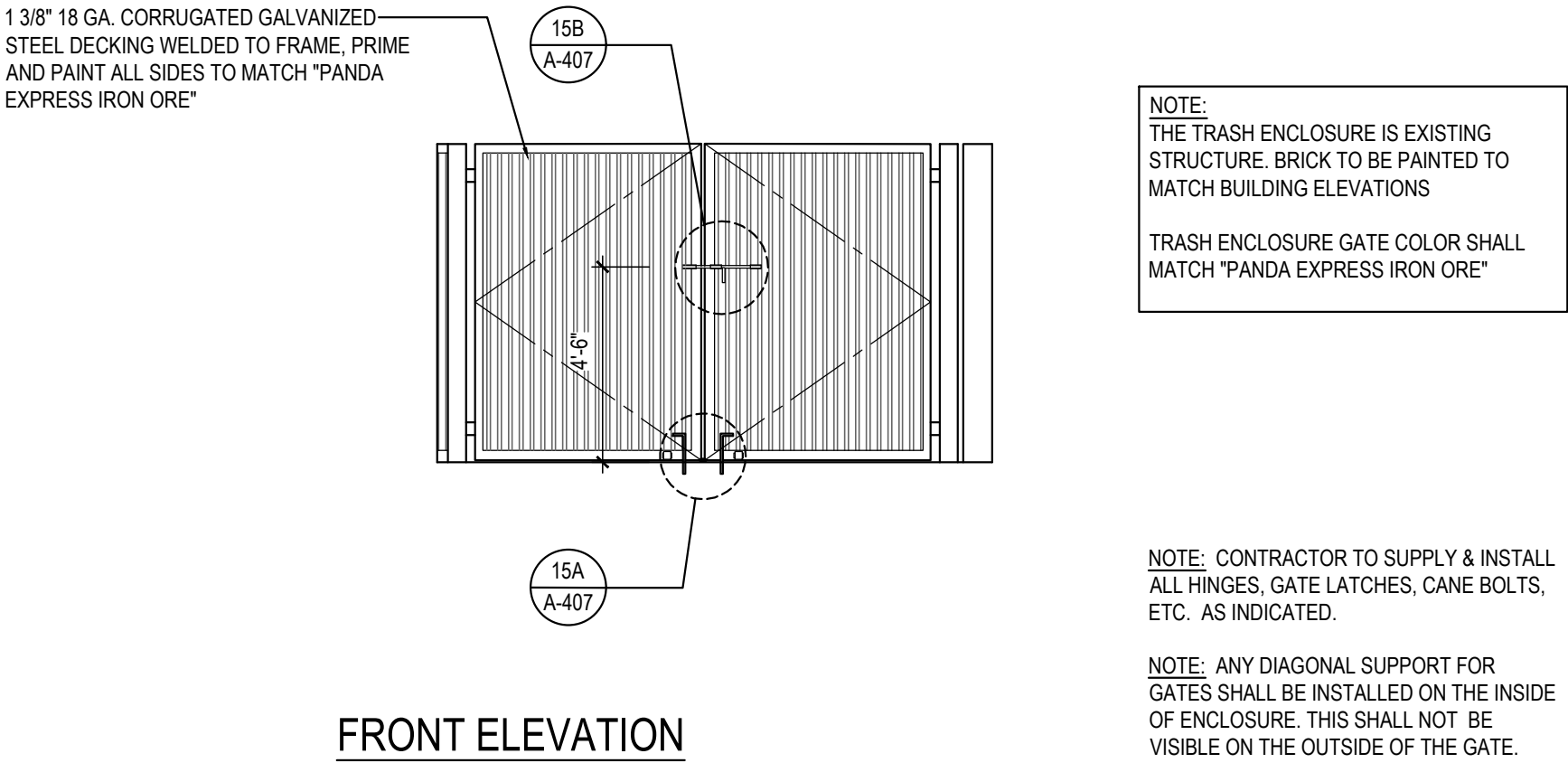
PANDA



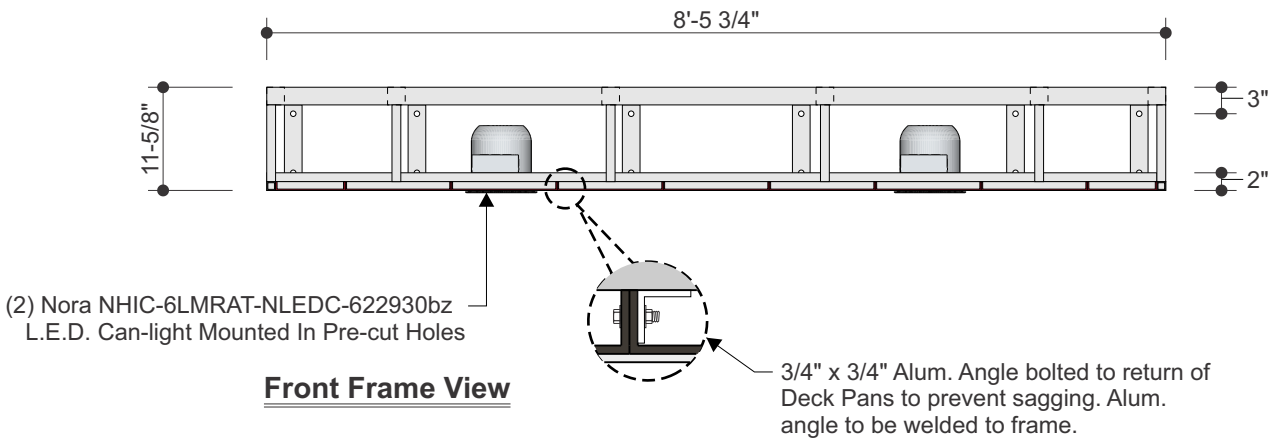
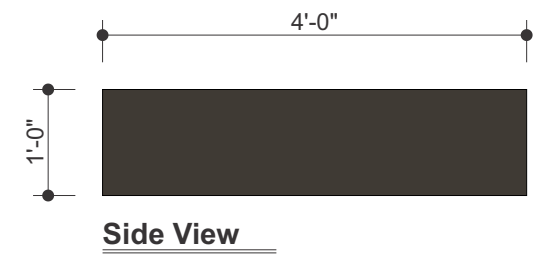
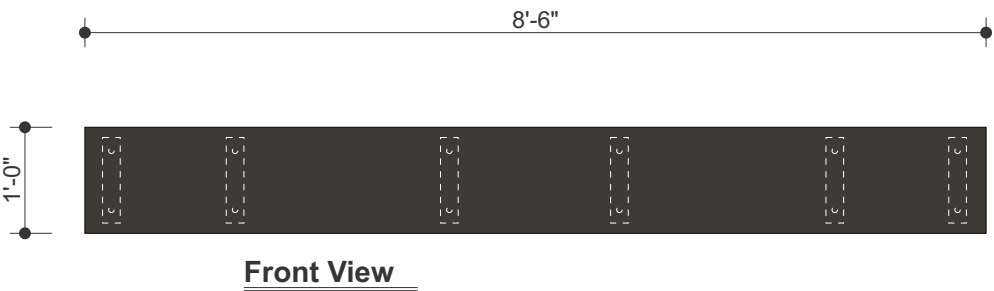
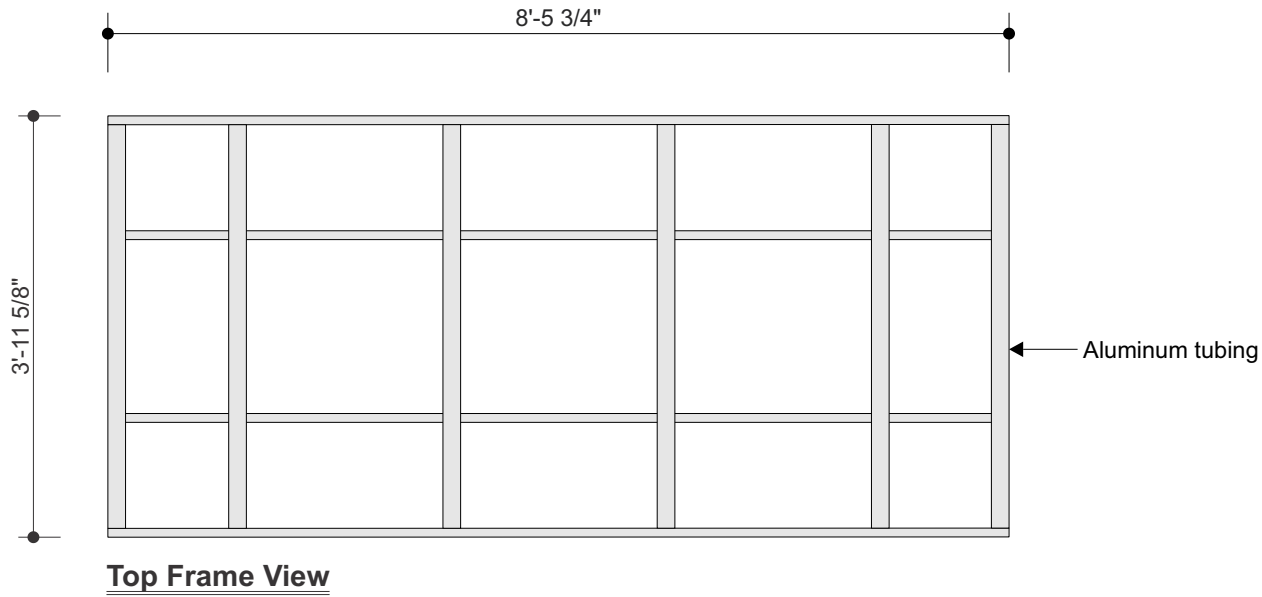
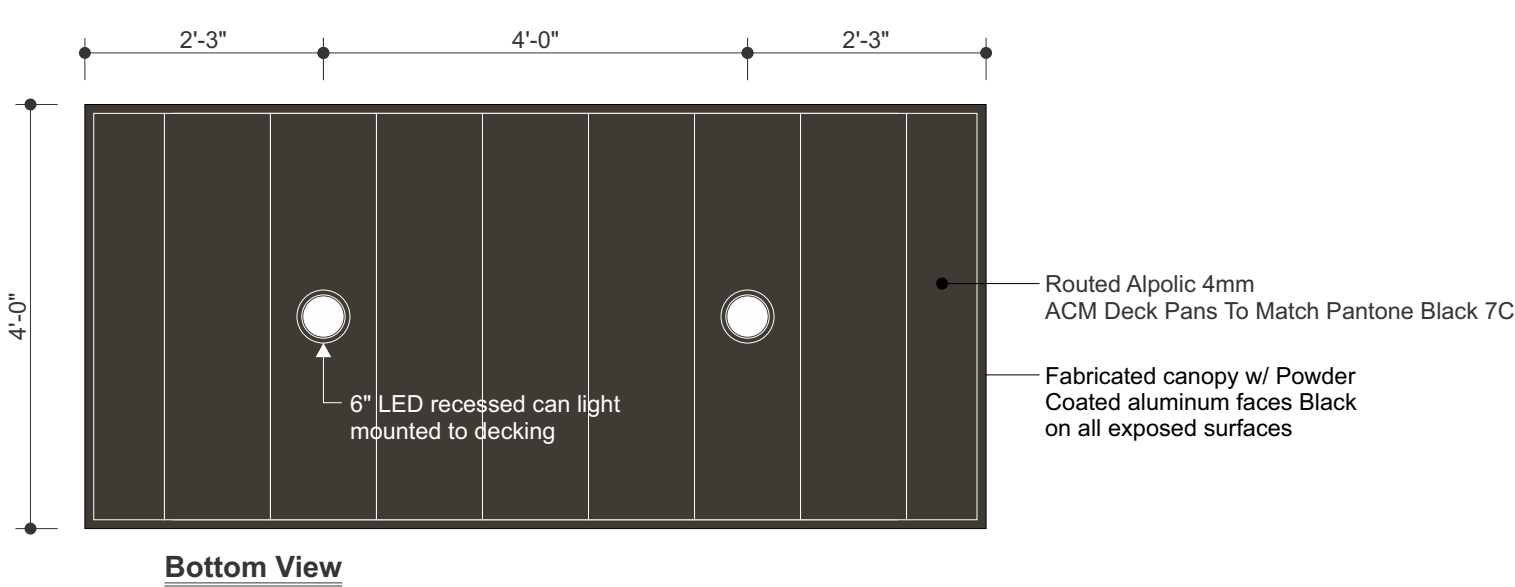
DUMPSTER GATE LATCH DETAILS 15
Scale= NTS A-407



SIDE ELEVATION 04
Scale= 1/4" = 1'-0" A-407



FRONT ELEVATION 02
Scale= 1/4" = 1'-0" A-407



Color Specifications	
	Cardinal Smooth Gloss Black T001-BK120
	Routed Alpolic 4mm To Match Pantone Black 7C

THIS DRAWING IS FOR REFERENCE ONLY ACTUAL SPECIFICATIONS PENDING BID SET

105822



Glacier White
Blend
PEP050
Acme Brick - Perla East Gate Plant
Modular Size - Smooth Texture
Width
3.625
Height
2.25
Length
7.625
Layup
6.75

Product Grade

A

Acme has attempted in these Sites to provide you with quality information and tools to assist you in your selection of Acme's products and services. However, the Sites and their Content contain inaccuracies, omissions, and/or typographical errors. Websites have limitations that cannot be overcome. Electronic, photographed and printed images cannot be guaranteed to thoroughly represent the color, texture, qualities or general appearances of all of Acme's products. What you actually see on Sites may differ from those products as they appear in reality. In addition, many of Acme's products are made from natural elements, resources and materials which vary from one piece to another and offer a unique element to your project. The products you actually receive may vary from those displayed on Sites and even samples you may view.

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to work of this section.

1.02 WORK INCLUDED

- A. Brick units.
- B. Reinforcement, anchors, and accessories.

1.03 WORK INSTALLED BUT FURNISHED UNDER OTHER SECTIONS

- A. Section 05500 – Miscellaneous Metals: Loose steel lintels, foundation vents.
- B. Section 07600 – Flashing and Sheet Metal
- C. Section 07670 – Thru-Wall Flashing.

1.04 RELATED WORK

- A. Section 03300 – Cast in Place Concrete.
- B. Section 04100 – Mortar and Grout.
- C. Section 06100 - Rough Carpentry.
- D. Section 07920 - Caulking and Sealant.

1.05 SUBMITTALS

Submit samples of brick to reflect the full range of color, shades and surface texture of brick specified.

1.07 ENVIRONMENTAL CONDITIONS

- A. Follow hot weather and cold weather requirements in the masonry code and specifications, TMS 402 and TMS 602.

1.08 DELIVERY, STORAGE AND HANDLING OF MATERIALS

Deliver, store, and handle materials to prevent inclusion of foreign materials and damage by water or weather. Store packaged materials in their original packages. Damaged or deteriorated materials shall be removed from the premises.

PART 2 - PRODUCTS

2.01 ACCEPTABLE BRICK MANUFACTURERS

- A. Products specified are manufactured by Acme Brick Company and are listed as a standard of quality. Brick shall match Glacier White 105822 - Smooth Texture
- B. Substitutions: Under provisions of Section 01600.

2.02 BRICK UNITS

- A. Standard Face Brick: Shall be Brick shall be FBS or HBS and shall be as follows: *(Add or removes sizes to fit project requirements.)*
 - a. Modular in size, 2 1/4 x 3 5/8 x 7 5/8 inches, and conform to the requirements of ASTM C 216 or C 652, Grade SW.

2.03 ANCHORS AND TIES

- A. Acceptable Manufacturers:
 - 1. Products of Hohmann and Barnard and Heckman Bldg. Products, conforming to specification requirements are acceptable.
 - 2. Substitutions: Under provisions of the General Provisions.
- B. Anchors:
 - 1. Slotted anchors of type DW10 shall be used with steel stud or wood stud backup walls, UNO.

2. Dur-O-Eye or equal anchors welded to joint reinforcing shall be used with masonry backup walls. Missing or damaged anchors shall be replaced as necessary with DW19 anchors fastened to wall with corrosion resistant Tapcon screws.
3. Anchors and ties for stone veneer shall be as recommended by the manufacturer.
4. Zinc coating shall comply with ASTM A153-B2.

2.04 ACCESSORIES

- A. Weep Holes: Open head joints every third brick at lintels and other locations.
- B. Compressible Filler: Premolded, flexible cellular neoprene rubber filler strips complying with ASTM D 1056, Grade RE41E1, capable of compression up to 35% of width and thickness indicated.
- C. Mortar Net: Provide continuous Mortar Net along base of air space to catch mortar drippings. High-density polyethylene, 90% open mesh, dovetail shape.
- D. As an alternate to Mortar Net, every third brick may be left out at base of air space and cavity cleaned and inspected to be free of mortar droppings.

PART 3 - EXECUTION

3.01 LAYING AND SETTING BRICK

- A. Pre-wet all brick having initial rate of absorption greater than 30 before laying.
- B. Heat water and sand in cold weather. Do not lay brick in temperature below freezing unless such heating of materials and protection of work is properly provided for.
- C. The exterior surfaces of concrete and concrete masonry backup walls shall be damp-proofed before face brick are laid.
- D. All brickwork shall be laid true to dimensions, plumb, square, and in bond. All courses shall be level with joints of uniform width and height.
- E. Vertical joints in facing bond work shall be spaced so as to line up plumb and true, and all joints shall be as uniform as the type of brick will allow.
- F. Lay facing brick in full mortar bed with shoved head joints. Completely fill joints with mortar. Do not deep furrow bed joints.
- G. Allow space for caulking of joints at frames.
- H. Bond for facing brick shall be running bond or as shown on drawings. Match existing bond patterns unless noted otherwise.
- I. Anchor facing brick to metal studs or masonry backup at 16 inches o.c. vertically and 16 inches o.c. horizontally with adjustable anchors and ties.
- J. Joint thickness shall be such as to provide coursing pattern to match existing brickwork. When the joints have become thumbprint hard, all exposed joints shall be tooled with a sled-jointing tool. The jointer shall be larger than the width of the joints so that a complete contact is made along the edges of the units, compressing and sealing the surface of the joint. Joints shall be pointed as the tool proceeds.
- K. Form weep holes in head joints at face brick over shelf angles and lintels and where shown on the drawings.

Rake out bed joint mortar to clean flashing surface. Weep holes shall be filled with preformed mesh type vent at bottom of head joints not more than 24 inches o.c.

- L. Keep air space clean of mortar at all times. Where brick extends below grade, fill brick cavity solid to level of flashing and slope mortar slightly to outside under flashing.
- M. When flashing is to be laid on or against masonry, the surface of the masonry shall be smooth and free from projections which might puncture the flashing material.
- N. Where fresh masonry joins masonry that is partially set or totally set, the exposed surface of the set masonry shall be cleaned and lightly wetted so as to obtain the best possible bond with the new work. All loose brick and mortar shall be removed.
- O. Expansion Joints:
 - 1. Vertical: Locate where indicated on drawings. Lay units to form a vertical joint free of mortar and of same width as normal head joint UNO.
 - 2. Horizontal: Locate under shelf angles and other dissimilar materials abutted by brick. Maintain a clear space at least 1/4-inch thick free of mortar. Inspect with trowel before installing backer rod and sealant.
 - 3. Sealant: Shall be in accordance with Section 07920.

3.02 FLASHINGS

Build in, as the work progresses all flashings which enter the masonry using the material and following the instructions of the appropriate section of the specifications.

Extend all flexible flashing 1" past face of wall and trim after tooling joints.

Where metal flashing or drip edge is shown, align drip with face of brick. Edge of flashing or drip edge shall be a simple hem rolled edge and not turned down.

3.03 OPENINGS AND HOLES

- A. Provide all openings and holes in masonry work. Provide all chases and recesses in masonry work of all types as indicated on the drawings and as required for pipes, ducts, and other work of Mechanical and Electrical contractors. Such work shall be accurately located by the contractor requiring the work, but masonry work shall not be constructed without giving other contractors due notices and opportunity to lay out or install such items as may be required for their work.
- B. Where required for installation of work of other contractors, leave openings as indicated on the drawing or as required to receive a later installation.
- C. After work of other contractors is in place, openings shall be neatly filled with masonry of the same type as in the adjoining surfaces.

3.04 SETTING AND BUILDING-IN

- A. Build-in materials occurring in any type of masonry construction that are furnished by other contractors. All built-in work shall be accurately placed, secured, held in position, and located by the contractor requiring the work.
- B. Set and built -in items of miscellaneous iron such as loose lintels and anchors required to complete all parts not connected to building framing.

- C. Set all anchor bolts required for the attachment of work to masonry.
- D. Build-in recesses, flashings, receivers, slots, anchors, sleeves and other work shown on Drawings.

3.05 PROTECTION

- A. At the end of each day's work, cover the tops of walls with canvas or other suitable material weighted down to keep water out of wall.

3.06 CLEANING BRICKWORK

- A. After pointing is done and wall is dry, clean face brick surface with dry brush.
- B. After 3 days clean with water and mild detergent or cleaners recommended by brick manufacturer. Do not use muriatic acid.
 - a. Wet brick surfaces thoroughly before applying cleaning solution.
 - b. Apply cleaning solution with bucket and brush or LOW PRESSURE spray.
 - c. Remove all stains and mortar streaks using stiff fiber bristle brush.
 - d. Rinse THOROUGHLY with water.
 - e. Protect windows, landscaping, and surrounding masonry surfaces from cleaning solution and rinse water.

END OF SECTION



Technical Data Sheet

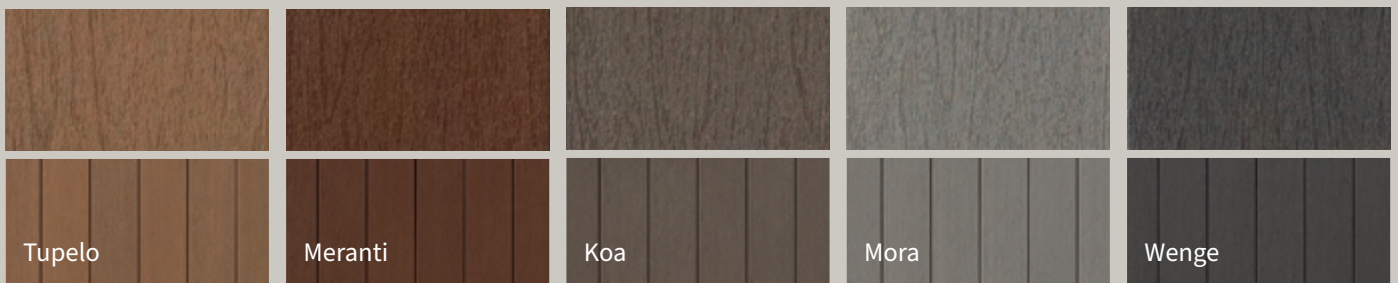
Fiberon Wildwood composite cladding provides the unrivaled beauty and warmth of wood combined with the durability of high-performance, low-maintenance composite materials. The durable composite core ensures exceptional resistance to rotting, cracking, insects and decay, and our exclusive PermaTech® cap layer protects against fading and staining.

Product Program

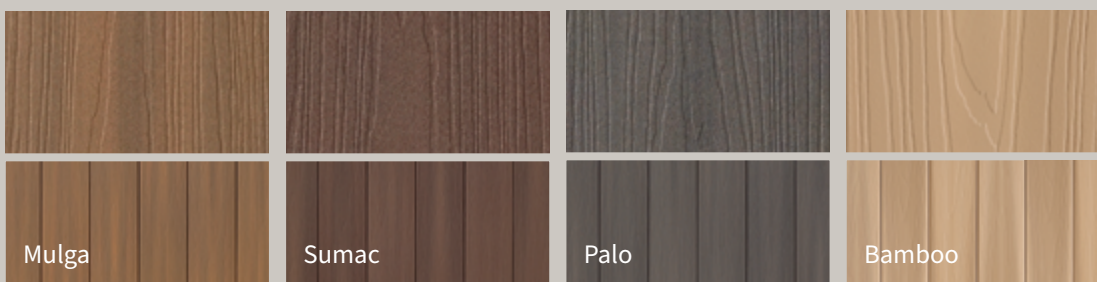
Open-Joint Profile				
	Nominal	1 in. x 6 in.	1 in. x 8 in.	1 in. x 12 in.
	Actual	0.75 in. x 6 in.	0.75 in. x 7.75 in.	0.75 in. x 11.25 in.
	Length	12 ft., 16 ft. or 20 ft.	12 ft.	12 ft.

Colors and Finishes

Eden Collection



Sahara Collection



Product Properties Chart

Property	Test Method	Result
Flexural Modulus MOE	ASTM 6109	321,000 PSI
Flexural Strength MOR	ASTM 6109	4950 PSI
Coefficient of Thermal Expansion	ASTM D6341	1.99 x 10 ⁻⁵ in/in/deg F
Decay Resistance (Brown & White Rot)	AWPA E10-12	Pass
Termites (Formosan Subterranean)	AWPA E1-09 (ASTM D3345)	Pass
Screw Head Pull-Through	ASTM E330	696 lbf (not > 800 lbs)
Flame Spread	ASTM E-84	FSI 65 (Class B)
Smoke Development Index	ASTM E-84	200

Notes:

1 = Co-Extruded Wood Plastic Composite cladding board

Property	Test Method	Result
Weight per Lineal Foot (12-in. width)	N/A	3.9 lbs/ft
Weight per Lineal Foot (8-in. width)	N/A	2.6 lbs/ft
Weight per Lineal Foot (6-in. width)	N/A	2.2 lbs/ft

Codes and Certifications

- FSI 65, Class B rated in ASTM E84 testing.
- Meets requirements of California Office of the State Fire Marshal SFM 12-7A-1 testing in a wall assembly.
- BML Listed - Exterior Wall Siding and Sheathing for Wildland Urban Interface (WUI) (8140-2045:0504)

Green Statistics

- Fiberon® Wildwood™ composite cladding is a cost-effective green building solution.
- Made with 94% pre- and post-consumer recycled content.
- Combines all the best qualities of recycled wood with the long-lasting resilience of recycled plastic.
- Blending these two materials together is the reason why our products last, and why they're sustainable from start to finish.

Storage Considerations

Proper storage and handling of Fiberon cladding is necessary for keeping the product intact and reducing safety hazards. Best practices for the handling and storage of cladding boards can be downloaded at https://fiberon.widen.net/s/dxxfklgtgxh/lit_clad_storage-and-handling-best-practices.

Installation Considerations

Fiberon Wildwood composite cladding contributes to effective moisture management.

Visit cladding.fiberondecking.com/technical/moisture-management to learn more about high-performance rainscreen systems.

Warranty Information

Fiberon Wildwood composite cladding meets comprehensive testing standards and is backed by an industry-leading 50-year warranty.

Note: See your Fiberon seller or visit fiberoncladding.com/technical/warranty for details on limited warranties and exclusions.



Beautiful outdoor living built for life.®





An unlikely match.

You're usually asked to choose between wood or plastic. Natural or synthetic. Paper or plastic. Our sustainability story starts with this unlikely match — all the best qualities of recycled wood, combined with the long-lasting resilience of recycled plastic. The blending of these two materials is the reason why our products last, and why they're sustainable from start to finish.



Minimum 94% recycled material.*

Time is one of your most valuable resources and Fiberon® composite decking is nearly maintenance-free. Unlike a Fiberon composite deck, a wood deck starts with chemicals used to pressure treat the lumber and needs to be refinished with more chemicals every year or two. That's a lot of energy (mostly yours). Instead of staining and sealing, we think the most truly sustainable story is one that ends with you, spending time with your family, on your beautiful new Fiberon composite deck.



Learn more at
fiberonbalance.com.

*PE composite decking only.
Photo credit Yellowstone Forever.

The science behind sustainable outdoor living.



Trees are beautiful. About half of what's in our decking comes from recycled wood — sawdust and leftover material that would otherwise be discarded.

- The average wood deck uses about 11 trees (500 sq. ft. deck).
- The choice to use recycled wood versus new wood in our deck boards avoids the destruction of up to one million trees or more. That's equal to 15,000 football fields worth of healthy forest.



Plastic lasts a lifetime... or ten. The other half of the core of our deck boards comes from recycled plastic. Think grocery bags and recycled packaging material.

- Fiberon incorporates the equivalent of 2,000 plastic bags into each board.
- Each year, Fiberon averages 100 million pounds of recycled plastic put to good use.



Resourceful to the last drop. Manufacturing composite decking requires a constant source of water. The good news? We reuse almost all of it with our closed-loop system.

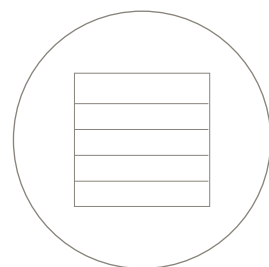
- Fiberon's closed-loop water system pumps over 3.5 billion gallons of water each year.
- Fiberon recycles the equivalent of 5,300 Olympic-size swimming pools annually.



Don't waste a thing. We reuse 98.5% of the waste from our manufacturing process — from misfit boards to router clippings. Every day.



Through Fortune Brands Home & Security, we're partnering with the National Forest Foundation in their effort to plant 50 million trees.



Cladding

Wildwood™ Composite Cladding

The beauty of wood meets advanced composite technology.

Bring your designs to life—all while protecting the planet.

- Offers a long-lasting, low-maintenance, more sustainable alternative to traditional wood cladding.
- Available in a variety of board lengths and widths for more design solutions. Longer lengths result in fewer seams and the open-joint profile utilizes a concealed face fastener, creating a cleaner aesthetic.
- Mix and match board lengths and colors, or use horizontal and vertical configurations to create a unique, custom look for each project.
- Priced competitively to wood and costs less than most rainforest wood cladding or engineered cladding products.
- The durable composite core ensures exceptional resistance to rotting, cracking, insects and decay.

Learn more at [fiberoncladding.com](https://www.fiberoncladding.com)



Backed by a 50-year warranty covering stain, fade and performance.

Wildwood composite cladding, Eden Collection in Tupelo.
Note: See your Fiberon seller or visit www.fiberoncladding.com for details on limited warranties and exclusions.

fiberon

The Future is Fiberon



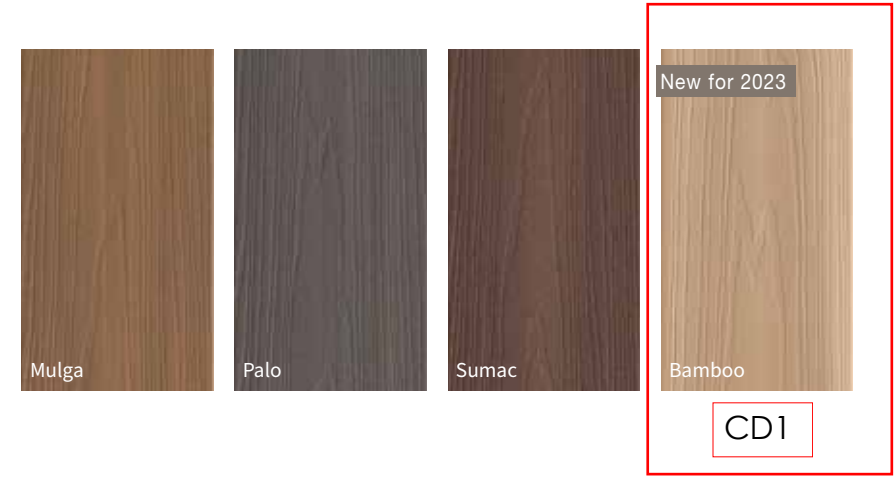
Nominal thk. / wd.:
Actual thk. / wd.:
Length:

1 in. x 6 in.
(0.75 in. x 6 in.)
12 ft., 16 ft. or 20 ft.

1 in. x 8 in.
(0.75 in. x 7.25 in.)
12 ft.

1 in. x 12 in.
(0.75 in. x 11.25 in.)
12 ft.

The Sahara Collection
draws inspiration from arid, sandy landscapes
and includes rich desert tones.



How They Work

Color-matched plugs and screws camouflage screw heads across the deck surface, stairs and perimeter boards.



The PRO PLUG® SYSTEM is a superior and easy-to-install plug fastening system for PVC / composite decking and PVC trim. Drill and set each screw, then tap in the color-matched plug with a hammer for a smooth finish.

Color-matched screws are designed to provide a clean, smooth, and uniform finish in composite and PVC decking and fascia. Choose from a variety of curated colors to match Fiberon decking or fascia.

Hidden Plug Systems

Starborn® PRO PLUG® SYSTEM Deck

- Package includes PVC / Composite Tool, screws, and plugs.
- Plugs are made from Fiberon® deck material for a perfect match.
- PVC / Composite Tool features Auto-Stop™ clutch mechanism.



Starborn PRO PLUG SYSTEM Fascia

Consists of two components: Fascia Plug Tool Set / Fascia Plug and Screw Kit.

- Fascia Plug Tool Set features Auto-Stop™ bit for setting ideal screw depth and creates perfectly-sized holes for boards to expand and contract freely.
- Plugs are made from composite deck fascia material for a perfect match.
- Can be used with composite risers.
- Fascia Plug Tool Set sold separately.
- Not available for PVC Fascia systems.



Color-Matched Screws

Cap-Tor® xd Color-Matched Screws

- Cap-Tor xd screws are color matched to Fiberon decking.
- Available for PE and PVC deck boards.
- Epoxy-coated carbon steel (T-20 Star bit included).
- 305 Grade Stainless Steel version also available (T-20 Star bit included).
- Use with Smart-Bit® Depth Setter for perfect depth setting every time (Part #: SCREW CTBRD BIT sold separately).



Starborn Fascia System

- Pre-drilling and countersinking Fascia Tool with patented Smart-Bit technology. Sold separately. (Part #: SCREW CTFS BIT)
- Designed to handle expansion and contraction that can occur with deck fascia boards.
- Screws are color matched to Fiberon fascia.
- Epoxy-coated carbon steel screws (T-20 Star bit included).
- Also for use on riser boards.





CAMO® DRIVE™

Install grooved- and square-edge decking with clip, face and edge fasteners up to five times faster with the cordless stand-up deck fastening tool that attaches to your drill.

- Installs Fiberon EDGE and Fiberon EDGEX Clips.
- Stand-up tool allows for a faster installation that’s easier on your body than other methods.
- Tool is easy to use – adjustable handle, quick-change button to swap out included fastening guides, simple to load the bit and attach to your drill.
- Also fastens CAMO collated EDGE Deck Screws and CAMO Collated Face Screws (available through CAMO).
- Replacement T-15 Drive™ bits are available.

*Fasten clips with DRIVE to install up to five times faster.

CAMO® ClipDRIVE™

Install grooved decking exclusively with Fiberon® EDGE®, EDGEX® or EDGEXMETAL® clip fasteners from a standing position with this drill attachment.

- Ergonomic tool features a height-adjustable handle, making it the perfect fit for any installer.
- Weighted nose easily targets the screw head, speeding up your jobs.
- Non-marring nose tip prevents scuffs and rings.
- Contractor-grade tool is heavy-duty yet lightweight and quick to assemble.
- Replacement T-15 Drive™ bits are available.

CAMO® LEVER®

Straightens and locks in deck boards.

- Speeds up grooved deck installs – locks in rows of boards and clips before fastening.
- Strong enough to straighten warped boards.
- Adjusts to wood and metal joists 1-½ – 3 in. wide for jobsite versatility.
- Multi-directional lever locks in one turn.
- Use two, three or four LEVERS along the length of the deck for the best clip installation experience with consistent board spacing.

CAMO® DRIVE™, ClipDRIVE™ & LEVER®

- One-year warranty through CAMO.
- Sold through Fiberon distribution partners.

	Product	Primary Uses	PE	PVC	Hidden Applications	Deck Surfaces / Ramps	Perimeter Boards
Hidden Grooved Fastener Systems	EDGE	90-degree Installations	✓	✓	✓	✓	
	EDGEX and EDGEXMETAL	90-degree or Angled Installations	✓	✓	✓	✓	
	Phantom Universal	90-degree or Angled Installations	✓		✓	✓	
	Starter Clips	First and Last Boards	✓	✓	✓		✓
Face-Fastening Systems	PRO PLUG SYSTEM Deck	Stair Tread or Perimeter Boards	✓	✓	✓	✓	✓
	Cap-Tor xd Color-Matched Screws	Square-Edge Deck Boards	✓	✓		✓	✓
	PRO PLUG SYSTEM Fascia	Fascia or Riser Boards	✓		✓		
	Starborn Fascia System with Color-Matched Screws	Fascia or Riser Boards	✓	✓			

Product	Package Size	Coverage	Package Contents
EDGE	90 ct. Pail	50 sq. ft.	• #7 x 2-¼ in. 410 stainless steel screws with T-15 drive head • #7 x 2 in. 410 stainless steel screw, drill point and T-15 drive head for Fiberon EDGEXMETAL • 304 Stainless Steel gusset creates 3/16 in. spacing • NEVER-MISS™ Guide • T-15 Driver Bit(s) • #10 x 2-¾ in. epoxy-coated carbon steel screws and T-20 drive head • 300 color-matched plugs • ProPlug screw setting tool included (not sold separately). • #10 x 2-½ in. 305 grade stainless steel screws and T-20 drive head with bit • #10 x 2-½-in. 305 grade stainless steel screws and T-20 drive head with bit • #10 x 2-¾ in. epoxy-coated carbon steel screws and T-20 drive head with bit • #10 x 2-¾ in. epoxy-coated carbon steel screws and T-20 drive head with two bits • #10 x 1-⅞ in. epoxy-coated carbon steel screws T-20 drive head (Fascia drill bit kit sold separately - Part #: SCREW PPFS BIT). • 100 color-matched plugs • #10 x 1-⅞ in. epoxy-coated carbon steel screws T-20 drive head (Fascia drill bit sold separately - Part #: SCREW CTFS BIT). • #7 x 1-⅝ in. coated carbon steel screws with T-15 drive head • 1-⅜ in. 304 stainless steel screws with T-15 drive head
	450 ct. Pail	250 sq. ft.	
	900 ct. Pail	500 sq. ft.	
EDGEX	90 ct. Pail	50 sq. ft.	
	450 ct. Pail	250 sq. ft.	
	900 ct. Pail	500 sq. ft.	
EDGEXMETAL	90 ct. Pail	50 sq. ft.	
	450 ct. Pail	250 sq. ft.	
PRO PLUG SYSTEM Deck*	224 ct. Box	100 l/f **	
Cap-Tor xd Color-Matched Screws*	100 ct. Stainless Box	75 l/f	
	350 ct. Stainless Box	100 sq. ft.	
	350 ct. Box	100 sq. ft.	
	1750 ct. Bucket	500 sq. ft.	
PRO PLUG SYSTEM Fascia*	100 ct. Box	50 l/f **	
Starborn Fascia System*	100 ct. Box	50 l/f **	
Phantom Universal	90 ct. Pail	50 sq. ft.	
	900 ct. Bucket	500 sq. ft.	
STARTER Clips	25 ct. Blister Pack	30 l/f	

*Alternative package sizes and screw options available through Starborn.

**Based on 16 in. on-center framing.



Resources

How to kick-start your decking plans.

Our online tools provide the guidance you need to start creating your perfect outdoor living space.

Visit fiberondecking.com/design-tools to get started.

Online Tools

Your ultimate outdoor space begins here.

Find inspiration on fiberondecking.com.

On our website you'll find three galleries meant to inspire your next project. Our Inspiration Gallery features user-generated content from a variety of social media channels. The Product Gallery highlights completed projects and deck board images, providing a closer look at our board colors and grain patterns.



Bring your deck design to life.

Fiberon® Discovery Deck Design Tools take the guesswork out of planning your outdoor living space project and provide you with the resources you need to navigate your deck design journey – from start to finish.

Deck Designer

Design a deck from scratch or choose from our pre-set deck shapes. Then, customize it to fit your home's style.

Inspiration

Browse our gallery of beautiful Fiberon decks to find inspiration.

Deck Visualizer

Our augmented reality app allows you to place decking within your space to quickly discover Fiberon possibilities on any surface. Take photos of different angles of your deck area and our tool will stitch the images together, allowing you to rotate and see multiple views of your deck.

It's time to build. We can help.

Our Find a Builder tool lists local, qualified Fiberon deck builders who can answer questions, provide project advice and quote the job. Or, use the Where to Buy feature to find local Fiberon dealers as well as lumberyards and home centers that carry our products.



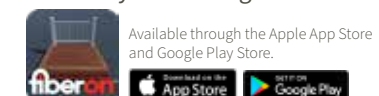
Visit fiberondecking.com/design-tools to learn more.



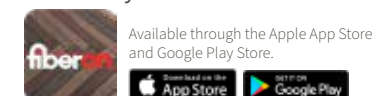
Bring your deck design to life.



Discovery Deck Designer



Discovery AR Product Visualizer App



Apple and the Apple logo are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc. Google Play and the Google Play logo are trademarks of Google, Inc.



Beautiful outdoor living built for life.®

Decking | Cladding | Railing | Fasteners | Lighting



Product Data Sheet



Aesthetic Description

Solarban® 60 solar control, low-e glass by Vitro Architectural Glass (formerly PPG Glass) was engineered to control solar heat gain, which is essential to minimizing cooling costs. In a standard one-inch insulating glass unit (IGU), *Solarban® 60* glass offers an exterior appearance similar to clear, uncoated glass.

With a very good Solar Heat Gain Coefficient (SHGC) of 0.39, *Solarban® 60* glass blocks 66 percent of the total solar energy while allowing 70 percent of the visible light to pass through. This combination produces an excellent Light to Solar Gain (LSG) ratio of 1.79, along with exceptional insulating performance, as evidenced by its 0.29 winter nighttime U-value.

Aesthetic Options

Solarban® 60 glass can be coated on *Starphire®* glass and paired with *Starphire®* glass to produce an IGU with exceptional clarity and solar control characteristics. For even more color and performance options, it can be coated on the second (#2) surface of nearly all Vitro's wide range of tinted glasses. It also can be combined in an IGU with any Vitro tinted glass, *Solarcool®* reflective glass or *Vistacool®* subtly reflective, color-enhanced glass (see performance data on back page).



Prudential Center
Location: Newark, NJ | Product: *Solarban® 60* Glass | Architect: Morris Adjmi Architects | Glass Contractor: Josloff Glass | Glass Fabricator: J.E. Berkowitz, LP

Supporting Sustainable Design

Vitro Architectural Glass provides abundant opportunities for architects and building owners to realize their sustainability objectives.

Energy Use & Operating Cost Reduction: An energy modeling study conducted by an independent energy design and consulting firm showed that a building can potentially save millions of dollars over its lifetime with *Solarban® 60* glass instead of less advanced glasses. The study showed that by substituting *Solarban® 60* glass instead of dual-pane tinted glass, a typical glass-walled, eight-story office building in Boston could lower its initial HVAC investment by nearly \$350,000 and its annual energy costs by more than

\$80,000. Carbon emissions from the same building also were reduced by more than 300 tons per year.

Sustainability Documentation: Vitro Architectural Glass is the first U.S. float glass manufacturer to have its entire selection of products recognized by the *Cradle to Cradle Certified™* program, and the first in North America to publish third-party verified Environmental Product Declarations (EPDs) for its Flat Glass and Processed Glass products.

For additional credit opportunities and supporting documentation, visit vitroglazings.com/LEED

LEED® Credit Opportunities			
Possible Points	LEED Credit	<i>Solarban® 60</i> Feature	Path/Option Satisfied
18	Energy & Atmosphere (EA) Optimize Energy Performance	Excellent SHGC, U-value and Tvis performance	Whole Building Energy Simulation (Option 1) or Prescriptive Compliance: ASHRAE Advanced Energy Design Guide (Option 2)
5	Innovation (IN) Innovation in Design	Exceeds minimum performance mandated by local energy codes	Innovation (Option 1), Pilot (Option 2) and Exemplary Performance (Option 3)
3	Indoor Environmental Quality (EQ) Daylight	Exhibits high light transmission	Simulation: Spatial Daylight Autonomy and Annual Sunlight Exposure (Option 1), Simulation: Illuminance Calculations (Option 2) or Measurement (Option 3)

Solarban® 60 Glass

Fabrication and Availability

Solarban® 60 glass is available exclusively through the Vitro Certified™ Network. Vitro Certified™ Fabricators can meet tight construction deadlines and accelerate the delivery of replacement glass before, during and after construction. Solarban® 60 glass is manufactured using the sputter-coating process and is available for annealed, laminated, heat-strengthened and tempered applications.

Request Samples

To obtain samples of any Vitro Glass product, call 1-855-VTRO-GLS (877-6457) or visit samples.vitroglazings.com.

Insulating Glass Unit Performance Comparisons | 1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/4-inch (6mm) lites

Outdoor Lite: Coating if Any (Surface) Glass	Glass Type + Indoor Lite: Coating if Any (Surface) Glass	Visible Light Transmittance (VLT)	Visible Light Reflectance		(BTU/hr°ft²°F) NFRC U-Value		Solar Heat Gain Coefficient (SHGC)	Light to Solar Gain (LSG)
			Exterior %	Interior %	Winter Nighttime	Winter Argon		
Solarban® 60 Solar Control Low-E Glass								
	Solarban® 60 (2) Clear + Clear	70	11	12	0.29	0.24	0.39	1.79
	Solarban® 60 (2) Acuity™ + Acuity™	73	11	12	0.29	0.24	0.41	1.78
	Solarban® 60 (2) Starphire® + Starphire®	74	11	12	0.29	0.24	0.41	1.80
	Solarban® 60 (2) Solexia® + Clear	61	9	12	0.29	0.24	0.32	1.91
	Solarban® 60 (2) Atlantica® + Clear	53	8	11	0.29	0.24	0.27	1.96
	Solarban® 60 (2) Azuria® + Clear	54	8	11	0.29	0.24	0.28	1.93
	Solarban® 60 (2) Solarblue® + Clear	45	7	11	0.29	0.24	0.29	1.55
	Solarban® 60 (2) Pacifica® + Clear	34	6	10	0.29	0.24	0.23	1.48
	Solarban® 60 (2) Solarbronze® + Clear	42	7	11	0.29	0.24	0.28	1.50
	Solarban® 60 (2) Optigray® + Clear	50	8	11	0.29	0.24	0.30	1.67
	Solarban® 60 (2) Solargray® + Clear	35	6	10	0.29	0.24	0.25	1.40
	Solexia® + Solarban® 60 (3) Clear	61	10	10	0.29	0.24	0.37	1.65
	Atlantica® + Solarban® 60 (3) Clear	53	8	10	0.29	0.24	0.31	1.71
	Azuria® + Solarban® 60 (3) Clear	54	9	10	0.29	0.24	0.31	1.74
	Solarblue® + Solarban® 60 (3) Clear	45	7	9	0.29	0.24	0.33	1.36
	Pacifica® + Solarban® 60 (3) Clear	34	6	9	0.29	0.24	0.25	1.36
	Solarbronze® + Solarban® 60 (3) Clear	42	7	9	0.29	0.24	0.32	1.31
	Optigray® + Solarban® 60 (3) Clear	50	8	9	0.29	0.24	0.35	1.43
	Solargray® + Solarban® 60 (3) Clear	35	7	9	0.29	0.24	0.29	1.21
	Graylite® II + Solarban® 60 (3) Clear	7	4	8	0.29	0.24	0.13	0.54
Vistacool® and Solarcool® with Solarban® 60 Solar Control Low-e (3)*								
	Vistacool® (2) Azuria® + Solarban® 60 (3) Clear	42	20	24	0.29	0.24	0.26	1.62
	Vistacool® (2) Pacifica® + Solarban® 60 (3) Clear	26	11	23	0.29	0.24	0.22	1.18
	Solarcool® (2) Azuria® + Solarban® 60 (3) Clear	21	19	29	0.29	0.24	0.17	1.24
	Solarcool® (2) Solarblue® + Solarban® 60 (3) Clear	17	14	29	0.29	0.24	0.18	0.94
	Solarcool® (2) Pacifica® + Solarban® 60 (3) Clear	13	10	29	0.29	0.24	0.15	0.87
	Solarcool® (2) Solarbronze® + Solarban® 60 (3) Clear	17	14	29	0.29	0.24	0.18	0.94
	Solarcool® (2) Solargray® + Solarban® 60 (3) Clear	14	11	29	0.29	0.24	0.17	0.82

* Data based on using Starphire® glass for both interior and exterior lites.

All performance data calculated using LBNL Window 7.3 software and represents center of glass performance data. For detailed information on the methodologies used to calculate the aesthetic and performance values in this table, please visit vitroglazings.com or request our Architectural Glass Catalog.

For more information about Solarban® 60 low-e glass and other Cradle to Cradle Certified™ architectural glasses by Vitro Glass, visit vitroglazings.com, or call 1-855-VTRO-GLS (877-6457).

©2022 Vitro Architectural Glass. All rights reserved. Atlantica®, Azuria®, Optigray®, Pacifica®, Solarban®, the Solarban® logo, Solarblue®, Solarbronze®, Solarcool®, Solargray®, Solexia®, Starphire® and Vistacool® are registered trademarks owned by Vitro. Acuity™ and Vitro Certified™ are trademarks owned by Vitro. Cradle to Cradle Certified™ is a trademark licensed by the Cradle to Cradle Products Innovation Institute. LEED® — an acronym for Leadership in Energy and Environmental Design™ — is a registered trademark of the U.S. Green Building Council®. 02/22 (7135)



ATLANTIS

1649SK-LED

LARGE WALL MOUNT LANTERN

Atlantis features a minimalist design for the ultimate in urban sophistication. Constructed of solid aluminum and Dark Sky compliant, Atlantis provides a chic solution to eco-conscious homeowners.

DETAILS	
FINISH:	Satin Black
MATERIAL:	Aluminum
GLASS:	Etched Lens
DIMMABLE:	YES - 0-10V TYPE DIMMER ONLY

DIMENSIONS	
WIDTH:	9"
HEIGHT:	24"
WEIGHT:	7lb
BACK PLATE:	4.5"W X 6.75"H
EXTENSION:	4"
TOP TO OUTLET:	20.75"

LIGHT SOURCE	
LIGHT SOURCE:	Integrated LED
LED NAME:	LC1-30 & LC2-60
WATTAGE:	15w LED *Included
VOLTAGE:	120v/277v
COLOR TEMP:	3000
LUMENS:	1200
CRI:	96
INCANDESCENT EQUIVALENCY:	2 x 60w
DIMMABLE:	YES - 0-10V TYPE DIMMER ONLY

SHIPPING	
CARTON LENGTH:	12
CARTON WIDTH:	28
CARTON HEIGHT:	8
CARTON WEIGHT:	13



PRODUCT DETAILS:

- Suitable for use in wet (outdoor direct rain or sprinkler) locations as defined by NEC and CEC. Meets United States UL Underwriters Laboratories & CSA Canadian Standards Association Product Safety Standards
- Fixture is Dark Sky compliant and engineered to minimize light glare upward into the night sky
- ADA compliant
- Meets California Energy Commission 2013 & 2016 Title regulations/JA8
- Equipped with a 120/277 universal driver. 0-10 dimming.
- 2-year finish warranty
- LED components carry a 5-year limited warranty
- Bold lines and a clean, minimalist style complement contemporary architecture

Performance Data

Electrical Load

Luminaire	Input Power (W)	120V	208V	240V	277V	347V
WPX1 LED P1	11W	0.09	0.05	0.05	0.04	0.03
WPX1 LED P2	24W	0.20	0.12	0.10	0.09	0.07
WPX2	47W	0.39	0.23	0.20	0.17	0.14
WPX3	69W	0.58	0.33	0.29	0.25	0.20

Projected LED Lumen Maintenance

Data references the extrapolated performance projections in a 25°C ambient, based on 6,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	50,000	75,000	100,000
Lumen Maintenance Factor	>0.94	>0.92	>0.90

Lumen Output

Luminaire	Color Temperature	Lumen Output
WPX1 LED P1	3000K	1,537
	4000K	1,568
	5000K	1,602
WPX1 LED P2	3000K	2,748
	4000K	2,912
	5000K	2,954
WPX2	3000K	5,719
	4000K	5,896
	5000K	6,201
WPX3	3000K	8,984
	4000K	9,269
	5000K	9,393

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

Ambient	Ambient	Lumen Multiplier
0°C	32°F	1.05
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

HID Replacement Guide

Luminaire	Equivalent HID Lamp	WPX Input Power
WPX1 LED P1	100W	11W
WPX1 LED P2	150W	24W
WPX2	250W	47W
WPX3	400W	69W

Emergency Egress Battery Packs

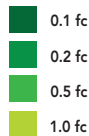
The emergency battery backup is integral to the luminaire — no external housing or back box is required. The emergency battery will power the luminaire for a minimum duration of 90 minutes and deliver minimum initial output of 550 lumens. Both battery pack options are CEC compliant.

Battery Type	Minimum Temperature Rating	Power (Watts)	Controls Option	Ordering Example
Standard	0°C	4W	E4WH	WPX2 LED 40K MVOLT E4WH DDBXD
Cold Weather	-20°C	14W	E14WC	WPX2 LED 40K MVOLT E14WC DDBXD

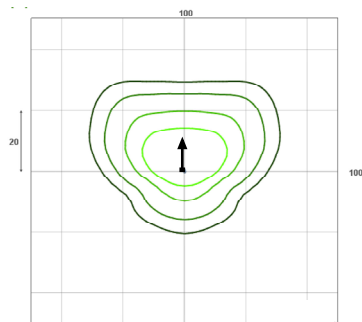
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting [WPX LED](#) homepage. Tested in accordance with IESNA LM-79 and LM-80 standards

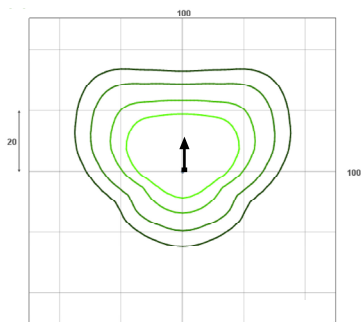
LEGEND



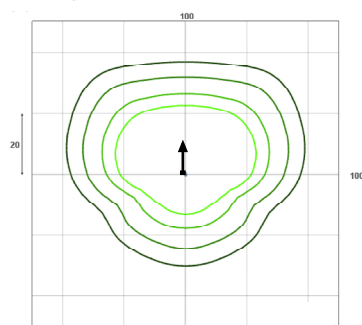
WPX1 LED P1



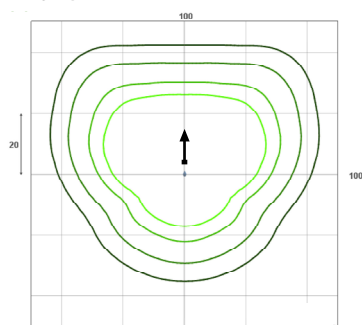
WPX1 LED P2



WPX2 LED



WPX3 LED



Mounting Height = 12 Feet.



COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • [www.lithonia.com](#)
© 2020-2022 Acuity Brands Lighting, Inc. All rights reserved.

WPX LED
Rev. 03/08/22

Loxon®**Self-Cleaning Acrylic Coating - Satin**

LX14-50 Series

**SHERWIN
WILLIAMS®****CHARACTERISTICS**

Loxon Self-Cleaning Acrylic Coating is specifically engineered for exterior, above grade, masonry surfaces requiring a clean and attractive look while providing high performance protection with enhanced water shedding and dirt pick-up resistant properties. This may be applied to a surface with a pH of 6 to 13.

Loxon Self-Cleaning Acrylic Coating is formulated to be self-cleaning by shedding dirt upon rain or water contact.

Key Attributes and Benefits:

- Excellent dirt pick up resistance
- Excellent water shedding
- Resistant to wind driven rain
- Hydrophobic characteristics
- Adhesion to many concrete surfaces, wood and EIFS
- Highly alkali and efflorescence resistant
- Apply directly to fresh concrete (at least 7 days old)
- Can be applied down to 35°F

Finish: 10-20 units @ 60°
Color: many Colors

Coverage:

Wet mils: 5-7
Dry mils: 2.0-2.8
Coverage: 220-320 sq. ft. per gallon
Coverage on porous & rough stucco 125 square feet per gallon.

Drying Schedule @ 50% RH: Drying and recoat times are temperature, humidity, and film thickness dependent.

To touch 4 hours
To recoat 24 hours
No maximum recoat time.

Tinting with CCE only:

Base	oz. per gallon	Strength
Extra White	0-7	SherColor
Deep Base	4-12	SherColor
Ultra Deep	10-12	SherColor
Light Yellow	0-12	SherColor

Extra White LX14W0051

(may vary by color)

V.O.C. (less exempt solvents):

less than 50 grams per litre; 0.42 lbs. per gallon

As per 40 CFR 59.406

Volume Solids: 38 ±2%
Weight Solids: 50 ±2%
Weight per Gallon: 10.18 lbs
Flash Point: N.A.
Vehicle Type: 100% Acrylic
Shelf Life: 36 months, unopened
Mildew Resistant:

This coating contains agents which inhibit the growth of mildew on the surface of this coating film. Passes ASTM D3273/D3274

COMPLIANCE

As of 08/10/2022, Complies with:

OTC	Yes
OTC Phase II	Yes
S.C.A.Q.M.D.	Yes
CARB	Yes
CARB SCM 2007	Yes
CARB SCM 2020	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	N/A
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certified	No
MIR-Manufacturer Inventory	No
MPI®	Yes

APPLICATION**Temperature:**

minimum 35°F

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compatible with the existing environmental and application conditions.

Reducer: No reduction necessary**Airless Spray:**

Pressure 2000 p.s.i.

Tip .017-.021 inch

Brush: nylon-polyester

Purdy Pro-Extra

Purdy Marathon

Roller Cover: 1/2-3/4 inch nap synthetic

Spray and back roll on porous & rough stucco to achieve required film build and a pin-hole free surface.

For porous block, a coat of Loxon Acrylic Block Surfer is required to achieve a pinhole free surface.

Apply at temperatures above 35°F. When the air temperature is at 35°F, substrates may be colder; prior to painting, check to be sure the air, surface, and material temperature are above 35°F and at least 5°F above the dew point. Avoid using if rain or snow is expected within 2-3 hours.

Do not apply at air or surface temperatures below 35°F or when air or surface temperatures may drop below 35°F within 48 hours.

For best performance results, avoid painting in direct sun or painting substrates with elevated surface temperatures.

Use high bond exterior painter's tape such as ShurTape® FROGTape® High Bond Exterior Painter's Tape™ (SMIS 651259798) when coated surface requires masking. Allow coating to dry 24 hours prior to applying to surface.

Do not reduce.

APPLICATION TIPS**Sealing and Patching:**

After cleaning the surface thoroughly, prime the concrete surface with Loxon Self-Cleaning Acrylic Coating, apply an elastomeric patch or sealant if needed, allow to dry, then topcoat.

To improve the performance, consider:

Use caution when preparing the substrate to create a uniform surface.

Cracks, crevices, and through-wall openings must be patched with an elastomeric patch or sealant.

Fill voids and openings around window and doors with an elastomeric patch or sealant.

Stripe coat all inside and outside corners and edges with 1 coat of Loxon Self-Cleaning Coating.

Caulking:

Gaps between windows, doors, trim, and other through-wall openings can be filled with the appropriate caulk after priming the surface.

RECOMMENDED SYSTEMS**Concrete, Masonry, Stucco, EIFS:**

Self-Prime using 2 coats of Loxon Self-Cleaning
or

1 coat Loxon Concrete & Masonry Primer
(if needed)

or
1 coat Loxon Conditioner (if needed)
2 coats Loxon Self-Cleaning

CMU, Block, Split-face Block:

1 coat Loxon Acrylic Block Surfer

or
1 coat Pro Industrial™ Heavy Duty Block Filler
2 coats Loxon Self-Cleaning

Wood:

1 coat Exterior Latex Primer
2 coats Loxon Self-Cleaner

Metal:

1 coat Pro Industrial™ Pro-Cryl® Primer
2 coats Loxon Self-Cleaner

Previously Coated in good condition:

After power washing, apply 1-2 coats of Loxon Self-Cleaning over the surface.

Loxon®

Self-Cleaning Acrylic Coating - Satin

SURFACE PREPARATION

WARNING! If you scrape, sand or remove old paint, you may release lead dust. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.** Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting: **US - National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead; Canada - your local health authority.**

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer-sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Masonry, Concrete, CMU:

Remove all dirt, dust, mildew, loose particles, laitance, foreign material, peeling and defective coatings, chalk, form release agents, moisture curing membranes, etc.

On tilt-up and poured-in-place concrete, commercial detergents and sandblasting may be necessary to remove sealers, release compounds, and to provide an anchor pattern.

Allow the surface to dry thoroughly.

Concrete and mortar must be cured at least 7 days at 75°F to apply this product directly. Fill bugholes, air pockets, cracks, and other voids with an elastomeric patch or sealant. Rough and porous block can be filled using Loxon Acrylic Block Surfer to provide a smooth surface.

Cement Composition Siding-Panels:

Remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, and peeling or defective coatings. Allow the surface to dry thoroughly. Concrete and masonry must be cured at least 7 days at 75°F. Fill bug holes, air pockets, cracks, and other voids with an elastomeric patch or sealant. Rough surfaces can be filled to provide a smooth surface.

Incidental Metal:

Wash to remove any oil, grease, or other surface contamination. All corrosion must be removed with sandpaper, wire brush, or other abrading method. Primer required.

Wood:

Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth. All patched areas must be primed. Primer required.

SURFACE PREPARATION

Mildew - Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts clean water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

PHYSICAL PROPERTIES

Do not paint on wet surfaces.

LX14W0051

Wind-Driven Rain Test:

Method: ASTM D6904-13
Result: Pass
2 coats Loxon Self-Cleaning @ 4.2- mils d.f.t. total

Water Vapor Permeance:

Method: ASTM D1653
Result: 26.1 perms
1 coat Loxon Self-Cleaning @ 4.3-mils d.f.t.
14 day cure @ 77°F & 50% RH

Elongation:

Method: ASTM D2370
Result: 159%
1 coat Loxon Self-Cleaning @ 4.8-mils d.f.t.
14 day cure @ 77°F & 50% RH, 1 inch per minute

Tensile Strength:

Method: ASTM D2370
Result: 224 p.s.i.
1 coat Loxon Self-Cleaning @ 4.8-mils d.f.t.
14 day cure @ 77°F & 50% RH, 1 inch per minute

Flexibility:

Method: ASTM D522
Result: method B, 180° bend, 1/8 inch mandrel Pass

Alkali Resistance:

Method: ASTM D1308
Result: Pass

Mildew Resistance:

Method: ASTM D3273/D3274
Result: Pass

Efflorescence:

Method: ASTM D7072-04
Result: Pass (None)

Adhesion to Concrete:

Method: ASTM D3359
Result: 5B

SAFETY PRECAUTIONS

For exterior use only.

Protect from freezing.

Non-photochemically reactive.

Not for use on horizontal surfaces (floors, roofs, decks, etc.) where water will collect.

Not for use below grade. Will not withstand hydrostatic pressure.

Before using, carefully read **CAUTIONS** on label.

ZINC Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

HOTW 08/03/2022 LX14W0051 06 36
FRC, SP

CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm clean water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

Loxon® Acrylic Conditioner

LX03W0100 Guide Coat White, LX03V0100 Clear



**SHERWIN
WILLIAMS®**

CHARACTERISTICS

Loxon Acrylic Conditioner is a 100% acrylic emulsion conditioner that will penetrate and seal interior and exterior surfaces and bond light chalk to the surface. With excellent alkali and efflorescence resistance, this sealer allows new concrete, stucco, and other cementitious surfaces to be coated prior to a 30-day cure, and will adhere to new or existing concrete with a pH of 6 to 13.

For use on these surfaces:

Concrete, Concrete Block, Brick, Stucco,
Fiber Cement Siding, Plaster, Mortar, EIFS
Exterior Wall Cladding

Color: Guide Coat White &
Clear

Coverage:

Coverage sq.ft. per gallon 200-300

Do not build a surface glaze.

Drying Schedule 77° F @ 50% RH:

Drying and recoat times are temperature, humidity
and film thickness dependent.

Touch: 30 minutes

Tack free: 1 hour

Recoat: 3 hours

Tinting with CCE only:

Requires ColorCast Ecotoner colorant for tinting. If
desired, up to 1 oz per gallon of ColorCast Ecotoner
colorant can be used to approximate the topcoat
color. Check color before use.

Clear LX03V0100

V.O.C. (less exempt solvents):

less than 50 grams per litre; 0.42 lbs.per gallon
As per 40 CFR 59.406

Volume Solids: 15 ± 2%

Weight Solids: 17 ± 2%

Weight per Gallon: 8.43 lb

Flash Point: N/A

Vehicle Type: Proprietary

Acrylic

Shelf Life: 36 months,unopened

Guide Coat White LX03W0100

V.O.C. (less exempt solvents):

less than 50 grams per litre; 0.42 lbs.per gallon
As per 40 CFR 59.406

Volume Solids: 17 ± 2%

Weight Solids: 24 ± 2%

Weight per Gallon: 8.92 lb

Flash Point: N/A

Vehicle Type: Proprietary Acrylic

Shelf Life: 36 months,unopened

WVP Perms (US): 27.55 grains/(hr ft² in Hg)

COMPLIANCE

As of 09/23/2021, Complies with:

OTC	Yes
OTC Phase II	Yes
S.C.A.Q.M.D.	Yes
CARB	Yes
CARB SCM 2007	Yes
CARB SCM 2020	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	Yes
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certified	Yes
MIR-Manufacturer Inventory	No
MPI®	N.A.

APPLICATION

Temperature:

minimum 50°F

The following is a guide. Changes in pressures
and tip sizes may be needed for proper
spray characteristics. Always purge spray
equipment before use with listed reducer. Any
reduction must be compatible with the existing
environmental and application conditions.

Reducer: No reduction necessary

Airless Spray:

Pressure 700-1000 p.s.i.

Tip .015-.019 inch

Brush Use a nylon/polyester
or foam brush.

Roller Cover Use a 3/8 to 3/4 inch
nap synthetic cover.

If the surface requires a full bodied prime/block
filler coat rather than a thin penetrating sealer,
use Loxon Concrete & Masonry Primer or Loxon
Acrylic Block Surfer.

Apply at temperatures above 50°F. When the
air temperature is at 50°F, substrates may be
colder; prior to painting, check to be sure the air,
surface, and material temperature are above
50°F and at least 5°F above the dew point.

Do not apply if the surface temperature is below
50°F, when rain is expected within 3 hours, or
when the relative humidity is 90% or more.

Do not paint in direct sun or on a hot surface.

Do not reduce.

APPLICATION TIPS

Do not build a surface glaze.

Do not apply to a damp surface.

Do not apply over heavy chalk.

For maximum resistance to efflorescence, you
must topcoat with one of the Loxon Masonry
Finishes.

On exterior applications, Loxon Acrylic
Conditioner must be topcoated within 7 days or
the surface may need to be re-cleaned.

RECOMMENDED SYSTEMS

Masonry, Concrete, Stucco, Block,

1 coat Loxon Acrylic Conditioner

2 coats Appropriate topcoat

Fiber Cement Siding, EIFS:

1 coat Loxon Acrylic Conditioner

2 coats Appropriate topcoat

Previously Painted:

1 coat Loxon Acrylic Conditioner

2 coats Appropriate topcoat

Recommended Architectural Topcoats:

Loxon Masonry Coatings

ConFlex Masonry Coatings

A-100 Exterior Latex

Duration Exterior & Duration Home Interior

Emerald Exterior & Interior

SuperPaint Exterior & Interior

ProMar Interior

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at **1-800-424-LEAD** (in US) or contact your local health authority.

New and Previously Painted:

Remove all surface contamination (peeling paint, heavy chalk, efflorescence, laitance, concrete dust, etc.) by washing or pressure washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Masonry, Concrete, Stucco:

All new surfaces must cure for at least 7 days. Remove all form release and curing agents. Pressure clean to remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, peeling and defective coatings, chalks, etc. Allow the surface to dry before proceeding. Repair cracks, voids, and other holes with an appropriate patching compound or sealant.

Concrete and mortar must be cured at least 7 days at 75°F. Moisture content must be 15% or lower. On tilt-up and poured-in-place concrete, commercial detergents and sandblasting may be necessary to remove sealers, release compounds, and to provide an anchor pattern. Fill bugholes, air pockets and other voids with an elastomeric patch or sealant.

Plaster

Must be cured, usually 30 days, and hard. If painting cannot wait, allow the surface to dry 7 days (within a pH range of 6 to 13) and prime with Loxon Acrylic Conditioner. **Do not build a surface glaze.** If the surface requires a full bodied prime coat rather than a thin penetrating sealer, use Loxon Concrete & Masonry Primer. Soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of water. Repeat until the surface is hard, rinse with water and allow to dry before painting.

Brick

Must be free of dirt, loose and excess mortar, and foreign material. All brick should be allowed to weather for at least one year followed by wire brushing to remove efflorescence. Treat the bare brick with one coat of Loxon Acrylic Conditioner.

SURFACE PREPARATION

Mildew:

Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

CAUTIONS

For interior or exterior use.

Protect from freezing.

Not for use on floors

Before using, carefully read **CAUTIONS** on label.

CRYSTALLINE SILICA: Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Adequate ventilation required when sanding or abrading the dried film. If adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Abrading or sanding of the dry film may release crystalline silica which has been shown to cause lung damage and cancer under long term exposure. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

HOTW	09/23/2021	LX03W0100	17 00
HOTW	09/23/2021	LX03V0100	13 00
FRC, SP			

CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with a compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

AIR CURTAINS

AN INVISIBLE PROTECTIVE BARRIER FOR YOUR BUSINESS

Quikserv air curtains are designed to produce a quiet, yet high volume and high velocity stream of air to help guard your building from insects, fumes, dust, odors, and other contaminants when used over drive-thru windows, service doors, and all other building openings. The units are ideal for interior installations and come with a black powder coated casing to suit any application.

KEEPS OUT DUST, AIRBORNE PARTICLES & GERMS & FLYING INSECTS

The air curtain works as an invisible barrier to protect the interior of your building and deter the entrance of all types of contaminants.

PREVENTS CARBON MONOXIDE FROM ENTERING THE KITCHEN

Protect indoor air quality and create a healthier, more sanitized environment by deterring the entrance of fumes from idling vehicles in the drive-thru lane.

LOWERS ENERGY COSTS

Keep outside air from entering the restaurant when the window is open to better control heating and cooling costs in the building.

DECREASES EMPLOYEE TURNOVER

Increase employee wellbeing and comfort by deterring the entrance of fumes and extreme hot or cold air.

EASY TO OPERATE & MAINTAIN

Simple to install and requires little maintenance. The unit comes with a wall mounting plate and a pair of support brackets with fasteners.

The heated air curtain comes with a rheostat, fan / off / fan & heat rocker switch, thermostate to automatically control the temperature.

STANDARD OPTIONS

- Shipped fully assembled and ready to install
- ETL Listed

CUSTOM OPTIONS

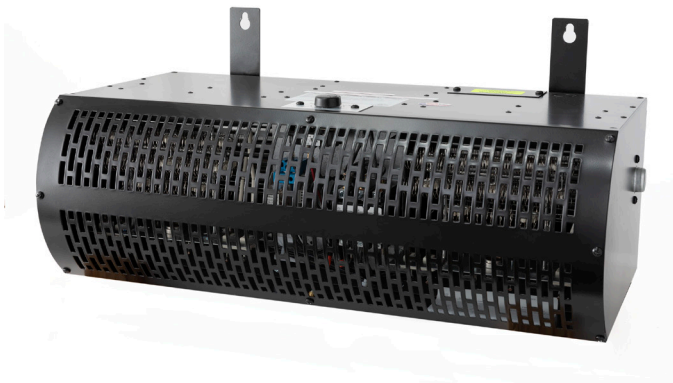
Quikserv can provide the option to sync the air curtain with your drive-thru window to allow the unit to operate only when the window is open. Not available on all window models. Ask for details.

WARRANTY

1 year limited warranty



HEATED AIR CURTAIN



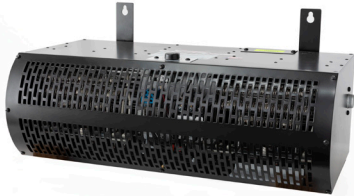
NON-HEATED AIR CURTAIN





NON HEATED AIR CURTAIN SPECIFICATIONS

MODEL	NOZZLE WIDTH (")	LENGTH (")	DEPTH (")	HEIGHT (")	MOTOR (HP)	WEIGHT (LBS)	MAX VELOCITY (FPM)	AIR VOLUME (CFM)	VOLTAGE	KW	AMPS	MAX AMP PROTECTION	POWER SOURCE
QSK1025AA-BK	23.5"	25"	8.94"	8.55	1/5	30	2100	645	120V	0.32	3.4	15 AMPS	SINGLE PHASE



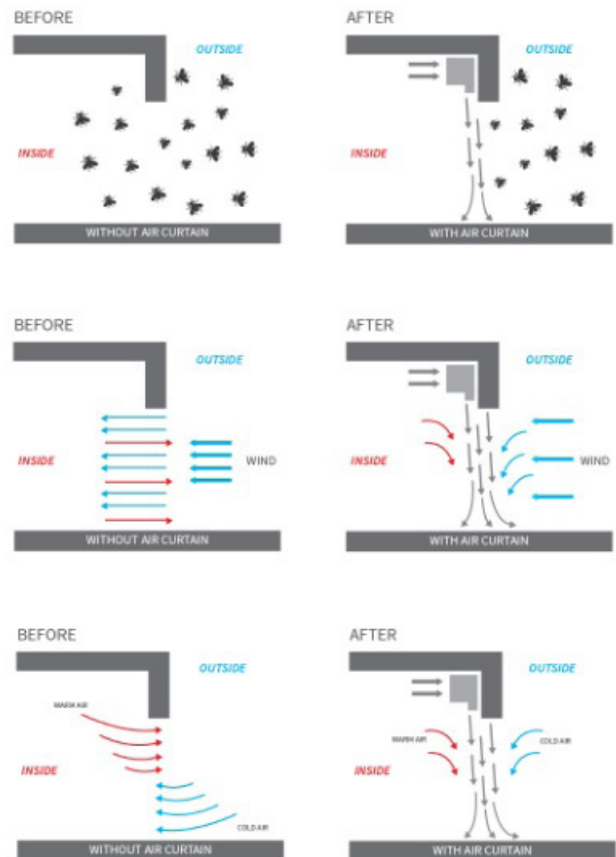
HEATED AIR CURTAIN SPECIFICATIONS

MODEL	NOZZLE WIDTH ("	LENGTH (")	DEPTH (")	HEIGHT (")	MOTOR (HP)	WEIGHT (LBS)	MAX VELOCITY (FPM)	MAX VOLUME (CFM)	VOLTAGE	KW	AMPS	MAX AMP PROTECTION	POWER SOURCE
QSV1025EJ-040-BK	23.5	25	13.94	8.55	1/5	39	2,100	645	208V / 240V	3.0 KW / 4 KW	16.1 / 18.4	25 AMPS	SINGLE PHASE

Air curtains act as an invisible barrier to keep out contaminants such as dust, insects, airborne germs and act as a thermal barrier to better manage heating / cooling costs in buildings.



For the most effective results, your air curtain should be mounted directly above and as close as possible to the service opening on the drive-thru window, without interfering with access to the mechanical compartment above the window.



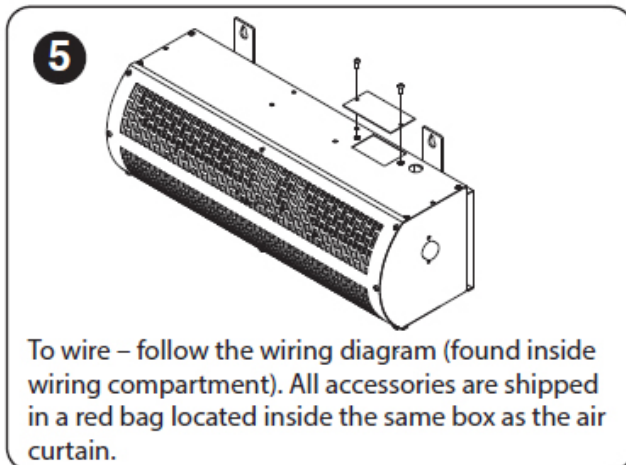
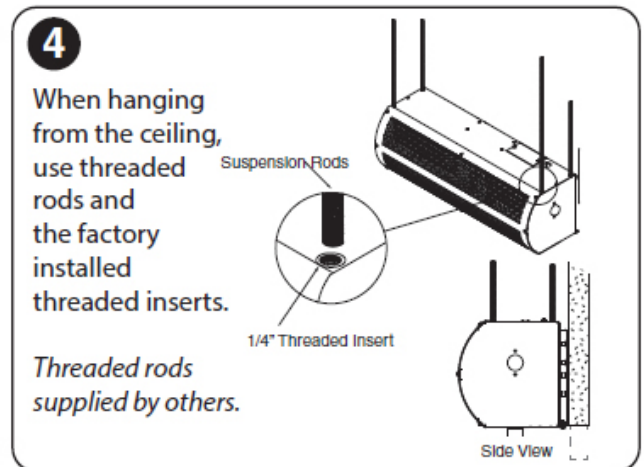
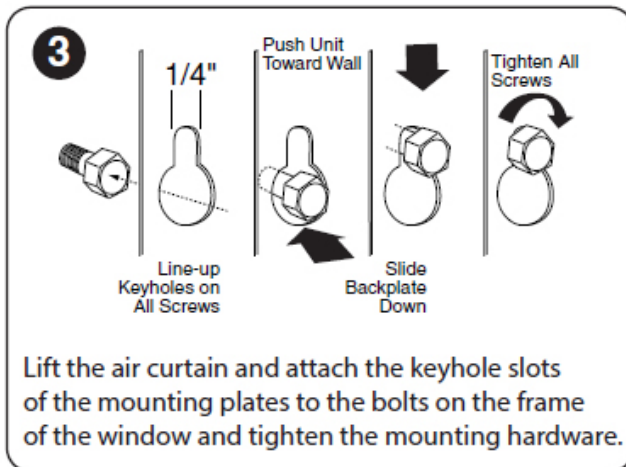
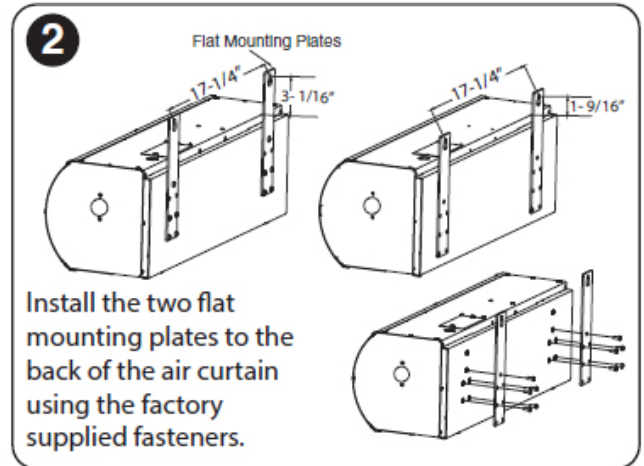
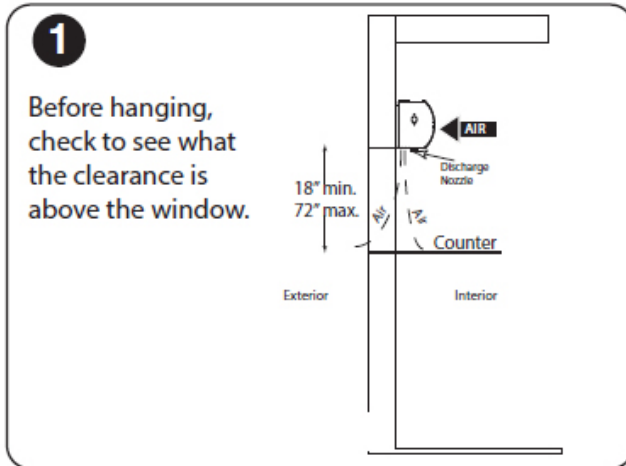
ALL QUIKSERV PRODUCTS ARE SHIPPED FULLY-ASSEMBLED AND READY TO INSTALL.



AIR CURTAIN

INSTALLATION INSTRUCTIONS

Our air curtains are simple to install and easy to operate & maintain!



For the most effective results, your air curtain should be mounted directly above and as close as possible to the service opening on the window, without interfering with access to the mechanical compartment above the window.

All wiring should be done by a qualified electrician using copper wiring.

See air curtain data sheet for electrical specifications.

ALL QUIKSERV PRODUCTS ARE SHIPPED FULLY-ASSEMBLED AND READY TO INSTALL.

WINDOW & AIR CURTAIN COMBINATION UNIT

FULLY-AUTOMATIC AND MANUAL SELF-CLOSING



SST-4860E
WITH HEATED AIR CURTAIN



THRU-BEAM PHOTO-ELECTRIC EYE-BAR

STANDARD FEATURES

- Shipped fully-assembled and ready to install
- Warranty backed with Nationwide Service Centers
- 1/4" clear tempered safety glass
- Weather resistant and sealed to protect from the elements
- Dark bronze or clear anodized aluminum
- Corrosion resistant material: anodized aluminum and #304-#3 finish stainless steel
- Security locking systems
- Easy manual operation upon power failure for automatic windows
- Maximum security hook-bolt locks
- ETL Listed for automatic windows
- Right or left hand units

OPTIONAL FEATURES

- Custom colors available
- Reduced service openings available for areas requiring 432 sq. inches
- Custom transoms and overall window sizes
- Various glazing options (B/R, Insulated, Tinted, etc)
- Electric auto locks for automatic windows
- Night-time security lock bar

MODEL SST-4860E / IFT-4860E

SST-4860E / IFT-4860E - Speed of service is the key. Models SST-4860E and insulated glass model IFT-4860E offer exceptional speed and reliability. This unit is perfect for any application demanding hands-free speedy service.

This unit features a built in air curtain to meet certain health code requirements. We can also offer this unit with restricted openings for our California customers. The non-heated and heated air curtain is mounted on the interior side of the window.

Each Quikserv electric slider is top-hung with no bottom track. Each unit comes with an offset in the base preventing intrusion and providing rain protection. Operating sensors offered are the push button or the Thru-Beam Photo Electric Eye-Bar. Beam operation requires the attendant to stand between an emitter and a receiver eye to open and close the window.

Service Opening: 20-1/4"(w) x 29-1/2"(h)

MODELS SCT-4860 & IFSCT-4860

These windows are manual opening, self closing sliders, with auto locking handles. You can also take advantage of the magnet hold open device: Slide the window to it's full open position and a magnet will hold it open. Once your customer leaves, tap the window and it will close and lock automatically.

Service Opening: 20-1/4"(w) x 29"(h)

THRU-BEAM PHOTO ELECTRIC EYE-BAR

Activated when the attendant stands between the emitter and the receiver. Available on all automatic sliders and is best used where there is limited space or tighter working conditions.

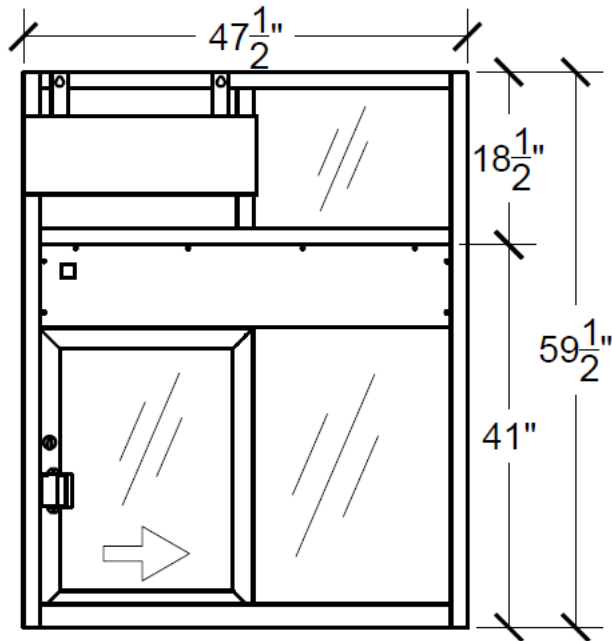


MODEL SST-4860E / IFT-4860E MANUAL OPERATION

ROUGH OPENING: 48"(w) x 60"(h)

SERVICE OPENING: 20-1/4"(w) x 29-1/2"(h)

MAIN VIEW

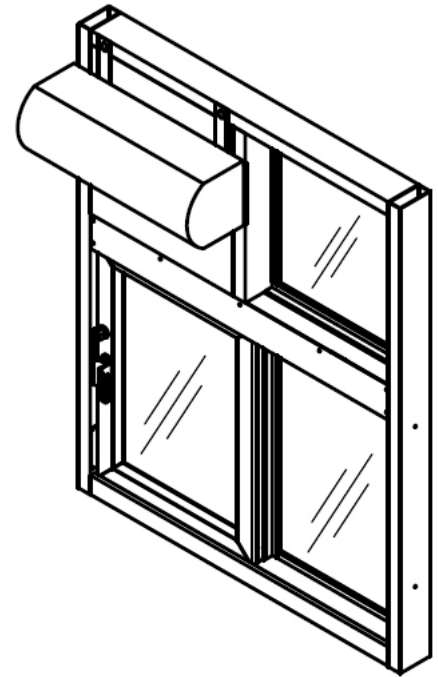


MODEL SCT-4860 / IF5CT-4860 AUTOMATIC OPERATION

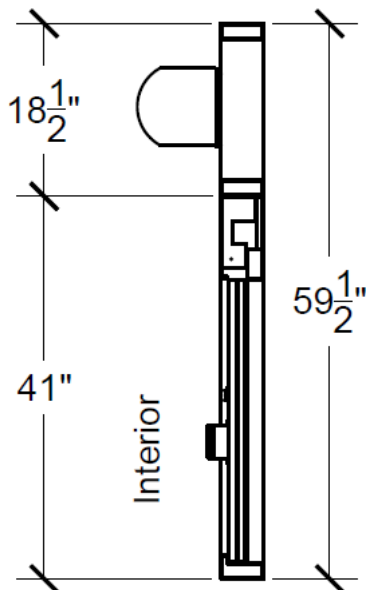
ROUGH OPENING: 48"(w) x 60"(h)

SERVICE OPENING: 20-1/4"(w) x 29"(h)

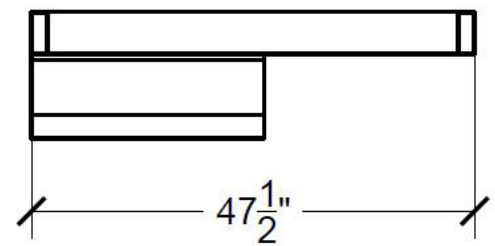
ISO VIEW



SIDE VIEW

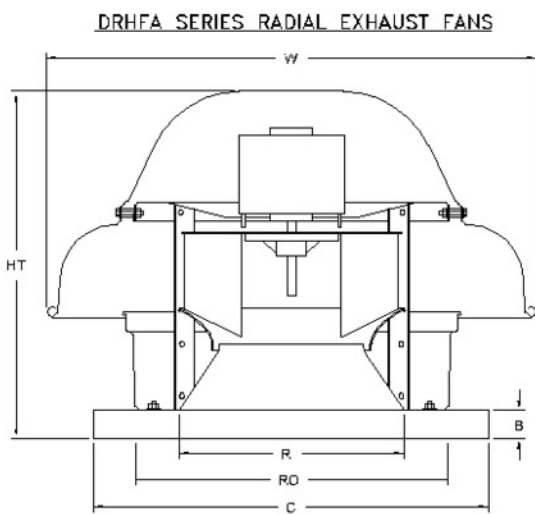


TOP VIEW



SST-4860E: Power supply is pulled from bottom left-handed jamb hardware by others - 115v20 AMP dedicated circuit required

ALL QUIKSERV PRODUCTS ARE SHIPPED FULLY-ASSEMBLED and READY TO INSTALL. EACH ELECTRICAL UNIT IS SHIPPED WITH A FOUR FOOT (4') BX DROP.

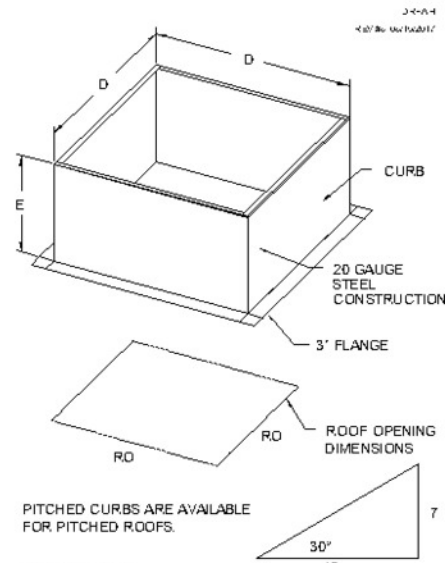


FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/ PULLEYS)
- ROOF MOUNTED FANS
- UL705
- SAFETY DISCONNECT
- STANDARD BIRD SCREEN
- SPEED CONTROL

OPTIONS:

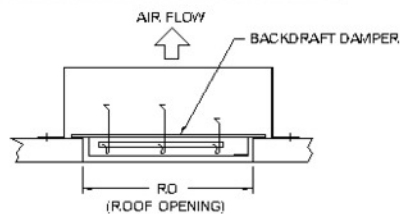
BACKDRAFT DAMPER
HINGED FAN
PITCHED CURB
INSULATED CURB



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE

BACKDRAFT DAMPER INSTALLATION



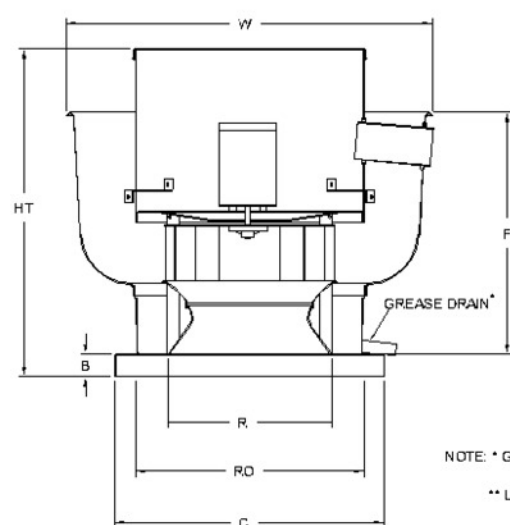
CURB DIMENSIONAL DATA

FAN MODEL	D	E
DR10HFA	17 1/2	12
DR12HFA	17 1/2	12
DR25HFA	19 1/2	12
DR30HFA	19 1/2	12
DR33HFA	19 1/2	12
DR50HFA	19 1/2	12
DR75HFA	23	12
DR85HFA	23	12
DR180HFA	26 1/2	12
DR200HFA	26 1/2	12
DR240HFA	31 1/2	12
DR300HFA	38 1/2	12
DR360HFA	42 1/2	12

DRHFA DIRECT DRIVE
CENTRIFUGAL RADIAL EXHAUST FANS DIMENSIONAL DATA

FAN MODEL	HT	W	B	C	R	RO	WEIGHT LB
DR10HFA	14 1/2	20 3/4	2	19	8 1/8	13	30
DR12HFA	16 1/4	23 3/4	2	19	10 5/8	13	35
DR25HFA	19 1/8	26 1/4	2	21	12 1/8	16	45
DR30HFA	19 1/8	26 1/4	2	21	12 1/8	16	45
DR33HFA	19 1/8	26 1/4	2	21	12 1/8	16	45
DR50HFA	21 3/4	29 3/4	2	21	13 1/4	16	50
DR75HFA	23 3/8	33 1/4	2	24 3/4	14 7/8	20	60
DR85HFA	23 3/8	33 1/4	2	24 3/4	14 7/8	20	60
DR180HFA	32 3/4	38 15/16	2	28	16 1/2	24	190
DR200HFA	32 1/4	38 15/16	2	28	18	24	195
DR240HFA	37 1/4	43 7/16	2	33	23 7/8	28	215
DR300HFA	44	52 13/16	2	40	24	36	380
DR360HFA	49 9/16	63 5/16	2	44	25 1/4	40	470

DU SERIES UPBLAST EXHAUST FANS (UL705)



FEATURES:

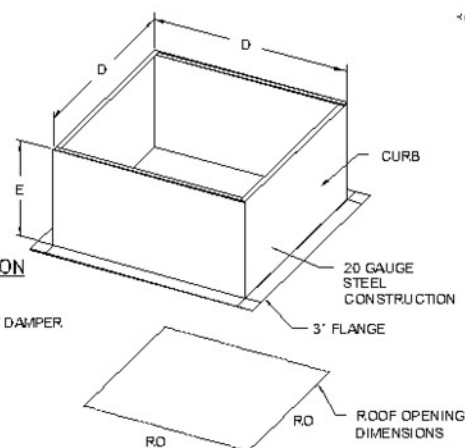
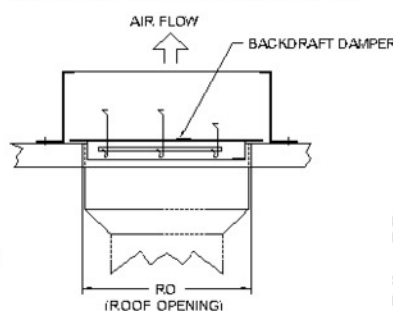
- DIRECT DRIVE CONSTRUCTION (NO BELTS/ PULLEYS)
- ROOF MOUNTED FANS
- UL705
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)

OPTIONS:

BACKDRAFT DAMPER
HINGED FAN
PITCHED CURB
INSULATED CURB
BIRD SCREEN
LOW PROFILE OPTION

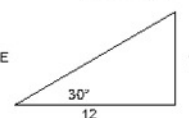
NOTE: * GREASE DRAIN NOT REQ'D
ON DU10L/HFA
** LOW PROFILE 'HT' DIMENSION
CHANGES.

BACKDRAFT DAMPER INSTALLATION



PITCHED CURBS ARE AVAILABLE
FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE



DU DIRECT DRIVE
CENTRIFUGAL UP-BLAST EXHAUST FANS DIMENSIONAL DATA

FAN MODEL	HT	**HT	W	B	C	F	R	RO	WEIGHT LB
DU10	14 1/2	N/A	17 3/4	2	19	9 1/2	8 1/8	13	30
DU12	18	17	22	2	19	14 1/2	10 5/8	13	40
DU30	25 1/4	20 1/4	25 1/2	2	21	18 1/2	12 1/8	16	50
DU33	25 1/4	20 1/4	25 1/2	2	21	18 1/2	12 1/8	16	50
DU50	27 1/4	23 1/4	28 7/8	2	21	21 1/2	13 1/4	16	55
DU85	30 1/2	25 1/2	31 7/8	2	24 3/4	23	14 7/8	20	60
DU180	33 3/4	N/A	39 3/8	2	28	22 5/8	16 1/2	24	190
DU200	33 3/8	N/A	38 7/8	2	28	29 1/2	18	24	195
DU240	37 1/2	N/A	43 3/8	2	33	30 5/8	23 7/8	28	270
DU300	44	N/A	52 3/4	2	40	33 1/2	24	36	410
DU360	49 9/16	N/A	63 5/16	2	44	43 7/16	25 1/4	40	470

CURB DIMENSIONAL DATA

FAN MODEL	D	E
DU10	17 1/2	12
DU12	17 1/2	12
DU30	19 1/2	12
DU33	19 1/2	12
DU50	19 1/2	12
DU85	23	12
DU180	26 1/2	12
DU200	26 1/2	12
DU240	31 1/2	12
DU300	38 1/2	12
DU360	42 1/2	12

Lennox LGH120H4B/M Commercial Rooftop units

Technical Specification

Make	Lennox	
Company	Lennox	
Model code	LGH120H4B/M	
Previously known as	1	
Power	> 60,000	
Capacity	>5	
Weight	1215	
Dimensions	Height: 47 Width: 61 Depth: 102	

Additional info

- ▀ Patented SmartWire™ system for quick and efficient installation and troubleshooting
- ▀ Four-line, backlit LCD provides an intuitive setup and navigation experience

- ▶ Integrated USB service port tracks Energence rooftop units' current and historical performance
- ▶ Seamless building automation integration with certified BACnet® and LonTalk® modules
- ▶ Over 250 adjustable parameters allow for customized comfort
- ▶ Over 100 diagnostic codes for comprehensive monitoring and simplified troubleshooting

Lennox LGH074H4T Commercial Rooftop units

Technical Specification

Make	Lennox		
Company	Lennox		
Model code	LGH074H4T		
Previously known as	1		
Power	> 60,000		
Capacity	>5		
Weight	781		
Dimensions	Height: 47 Width: 47 Depth: 86		

Additional info

- ▀ Patented SmartWire™ system for quick and efficient installation and troubleshooting
- ▀ Four-line, backlit LCD provides an intuitive setup and navigation experience

- ▶ Integrated USB service port tracks Energence rooftop units' current and historical performance
- ▶ Seamless building automation integration with certified BACnet® and LonTalk® modules
- ▶ Over 250 adjustable parameters allow for customized comfort
- ▶ Over 100 diagnostic codes for comprehensive monitoring and simplified troubleshooting

SECTION 084413: GLAZED ALUMINUM CURTAIN WALLS

This suggested guide specification has been developed using the current edition of the Construction Specifications Institute (CSI) "Manual of Practice," including the recommendations for the CSI three-part Section Format and the CSI Page Format. Additionally, the development concept and organizational arrangement of the American Institute of Architects (AIA) MasterSpec® Program has been recognized in the preparation of this guide specification. Neither CSI, AIA, USGBC, nor ILFI endorse specific manufacturers and products. The preparation of the guide specification assumes the use of standard contract documents and forms, including the "Conditions of the Contract," published by the AIA.

EDITOR NOTE: Instructions to the editor appear in RED. This style does not exist in the standard CSI template.

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section covers Kawneer Architectural Aluminum Curtain Wall Systems, including perimeter trims, stools, accessories, shims and anchors, and perimeter sealing of curtain wall framing.
- B. 1620/1620 SSG Curtain Wall System
 - 1. Sightline: 2" (50.8 mm)
 - 2. System depth: 6" (152.4 mm) or 7-1/2" (190.5 mm)
 - 3. Outside-glazed pressure plate format or structural silicone glazed (SSG) format
- C. Related Sections:

EDITOR NOTE: The sections listed below are specified elsewhere. However, Kawneer recommends single-source responsibility for all of these sections as described in the Quality Assurance article below.

- 1. 072700: Air Barriers
- 2. 079200: Joint Sealants
- 3. 083213: Sliding Aluminum-Framed Glass Doors
- 4. 084113: Aluminum-Framed Entrances and Storefronts
- 5. 084313: Aluminum-Framed Storefronts
- 6. 085113: Aluminum Windows
- 7. 088000: Glazing
- 8. 122600: Interior Daylighting Devices

1.3 DEFINITIONS

- A. For fenestration industry standard terminology and definitions, refer to the Fenestration & Glazing Industry Alliance (FGIA) Glossary (AAMA AG-13).

1.4 PERFORMANCE REQUIREMENTS

A. General Performance:

1. Product to comply with the specified performance requirements without failure due to defective manufacture, fabrication, installation, or other defects in construction, as determined by testing of glazed aluminum curtain walls representing those indicated for this project.
2. Glazed aluminum curtain walls shall withstand movements of supporting structure including, but not limited to, story drift, twist, column shortening, long-term creep, and deflection from uniformly distributed and concentrated live loads.
3. Failure includes any of these events:
 - a. Thermal stresses transferring to building structure
 - b. Glass breakage
 - c. Loosening or weakening of fasteners, attachments, and other components
 - d. Failure of operating units

B. Delegated Design:

1. Design glazed aluminum curtain walls, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.

C. Wind Loads:

EDITOR NOTE: Provide wind load design pressures in PSF and include applicable building code and year edition.

1. The curtain wall system shall include anchorage that is capable of withstanding the following wind load design pressures:
 - a. Inward: () psf or () Pa
 - b. Outward: () psf or () Pa
2. The design pressures are based on the () Building Code, () Edition.

D. Air Leakage:

EDITOR NOTE: Performance results for air infiltration are based upon ASTM and AAMA standards. Consult your local Kawneer representative concerning specific project performance requirements.

1. The test specimen shall be tested in accordance with ASTM E 283.
2. Air infiltration rate shall not exceed 0.06 cfm/ft² (0.3 l/s · m²) at a static air pressure differential of 6.2 psf (300 Pa).

E. Water Resistance:

EDITOR NOTE: Performance results for water resistance are based upon ASTM and FGIA/AAMA standards. Consult your local Kawneer representative concerning specific project performance requirements, sill flashing details, and installation instructions.

1. Static:
 - a. The test specimen shall be tested in accordance with ASTM E 331.
 - b. There shall be no leakage at a minimum static air pressure differential of 12 psf (575 Pa) as defined in AAMA 501.
2. Cyclic:
 - a. The test specimen shall be tested in accordance with ASTM E 547.
 - b. There shall be no leakage at an air pressure differential of 12 psf (575 Pa) as defined in AAMA 501.
3. Severe, Wind Driven Rain:
 - a. The test specimen shall be tested in accordance with AAMA 520 and ASTM E 2268.
 - b. There shall be no visible water at performance level 10, pressure limits 14 psf (670 Pa) to 42 psf (2010 Pa).

F. Uniform Load:

1. A static air design load of 42 psf (2010 Pa) shall be applied in the positive and negative direction in accordance with ASTM E 330.
2. There shall be no deflection in excess of $L/175$ of the span of any framing member at design load.
3. At a structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur.

G. Thermal Transmittance (U-factor), Physical Test:

EDITOR NOTE: This document contains two Thermal Transmittance sections. Retain the one that applies to your project and delete the other one.

EDITOR NOTE: Refer to thermal transmittance charts in the Architectural Detail Manual in accordance with AAMA 507 for project-specific U-factors, solar heat gain coefficient (SHGC), and visible transmittance (VT). Refer to thermal performance matrix for NFRC values.

1. Thermal transmittance test results in accordance with AAMA 1503 are based upon 1" (25.4 mm) clear low-emissivity coated glass insulating unit [$1/4"$ ($e=0.035$, #2), $1/2"$ warm edge spacer and argon fill gas, $1/4"$].
2. Captured: When tested using AAMA 1503, the thermal transmittance (U-factor) shall not be more than $0.37 \text{ Btu}/(\text{hr} \cdot \text{ft}^2 \cdot ^\circ\text{F})$.
3. SSG: When tested using AAMA 1503, the thermal transmittance (U-factor) shall not be more than $0.38 \text{ Btu}/(\text{hr} \cdot \text{ft}^2 \cdot ^\circ\text{F})$.

H. Thermal Transmittance (U-factor), Simulation:

EDITOR NOTE: This document contains two Thermal Transmittance sections. Retain the one that applies to your project and delete the other one.

EDITOR NOTE: Refer to thermal transmittance charts in the Architectural Detail Manual in accordance with AAMA 507 for project-specific U-factors, solar heat gain coefficient (SHGC), and visible transmittance (VT). Refer to thermal performance matrix for NFRC values.

1. When simulated using NFRC 100 or AAMA 507, the U-factor shall not be more than $0.41 \text{ Btu}/(\text{hr} \cdot \text{ft}^2 \cdot ^\circ\text{F})$ based on 1" (25.4 mm) glass with a Center of Glass (COG) U-factor of $0.24 \text{ Btu}/(\text{hr} \cdot \text{ft}^2 \cdot ^\circ\text{F})$ and an aluminum pressure plate; or project specific (____) $\text{Btu}/(\text{hr} \cdot \text{ft}^2 \cdot ^\circ\text{F})$ per AAMA 507 or (____) $\text{Btu}/(\text{hr} \cdot \text{ft}^2 \cdot ^\circ\text{F})$ per NFRC 100.

2. When simulated using NFRC 100 or AAMA 507, the U-factor shall not be more than 0.37 Btu/(hr·ft²·°F) based on 1" (25.4 mm) glass with a Center of Glass (COG) U-factor of 0.24 Btu/(hr·ft²·°F) and a fiberglass pressure plate; or project specific (____) Btu/(hr·ft²·°F) per AAMA 507 or (____) Btu/(hr·ft²·°F) per NFRC 100.

I. Condensation Resistance Factor (CRF) or Temperature Index (TI):

EDITOR NOTE: Refer to thermal transmittance charts in the Architectural Detail Manual in accordance with AAMA 507 for project-specific U-factors, solar heat gain coefficient (SHGC), and visible transmittance (VT). Refer to thermal performance matrix for NFRC values.

1. Captured: If using CRF, when tested using AAMA 1503, the CRF_{frame} and CRF_{glass} (with low-emissivity glazing) shall not be less than 75 and 71 respectively.
2. Captured: If using TI, when tested to CSA A440-00, the TI_{frame} and TI_{glass} (with low-emissivity glazing) shall not be less than 70 and 63 respectively.
3. SSG: If using CRF, when tested using AAMA 1503, the CRF_{frame} and CRF_{glass} (with low-emissivity glazing) shall not be less than 76 and 70 respectively.
4. SSG: If using TI, when tested to CSA A440-00, the TI_{frame} and TI_{glass} (with low-emissivity glazing) shall not be less than 67 and 59 respectively.

J. Sound Transmission Loss:

1. Captured: When tested to ASTM E90 and ASTM E1425, the Sound Transmission Class (STC) and Outdoor/Indoor Transmission Class (OITC) shall not be less than STC 34 or OITC 29 based upon 1" (25.4 mm) insulating glass (1/4", 1/2" AS, 1/4").
2. SSG: When tested to ASTM E90 and ASTM E1425, the Sound Transmission Class (STC) and Outdoor/Indoor Transmission Class (OITC) shall not be less than STC 34 or OITC 28 based upon 1" (25.4 mm) insulating glass (1/4", 1/2" AS, 1/4").

K. Environmental Product Declaration (EPD): Shall have a Type III Product-Specific EPD created from a Product Category Rule.

1.5 SUBMITTALS

A. Product Data:

1. For each type of product indicated, include:
 - a. Construction details
 - b. Material descriptions
 - c. Dimensions of individual components and profiles
 - d. Finishes
2. Recycled Content:

EDITOR NOTE: Include these Recycled Content specifications if needed to meet project requirements or for a project that includes Green Building Certifications such as LEED, Living Building Challenge (LBC), etc.

EDITOR NOTE: If Recycled Content requirements are not specified, prime (zero recycled content) aluminum could be supplied.

- a. Provide documentation that aluminum has a minimum of 50% mixed pre- and post-consumer recycled content.
 - b. Provide a sample document illustrating project-specific information that will be provided after product shipment.
 - c. After product has shipped, provide project-specific recycled content information:
 - 1) Indicate recycled content, including the percentage of pre- and post-consumer recycled content per unit of product.
 - 2) Indicate the relative dollar value of recycled content product to the total dollar value of product included in the project.
 - 3) Indicate the location for recovery of recycled content.
 - 4) Indicate the location of the manufacturing facility.
3. Environmental Product Declaration (EPD):
 - a. Include a Type III Product-Specific EPD created from a Product Category Rule.
- B. Shop Drawings:
 1. Plans
 2. Elevations
 3. Sections
 4. Full-size details
 5. Attachments to other work
- C. Samples for Initial Selection:
 1. Provide samples for units with factory-applied color finishes.
- D. Samples for Verification:
 1. Provide a verification sample for each type of exposed finish required, in manufacturer's standard sizes.
- E. Product Test Reports:
 1. Provide test reports for glazed aluminum curtain walls.
 2. Test reports must be based on evaluation of comprehensive tests performed by a qualified preconstruction testing agency.
 3. Test reports must indicate compliance with performance requirements.
- F. Fabrication Sample:
 1. Provide a fabrication sample of each vertical-to-horizontal intersection of aluminum-framed curtain wall systems, made from 12" (304.8 mm) lengths of full-size components and showing details of the following:
 - a. Joinery
 - b. Glazing

1.6 QUALITY ASSURANCE

- A. Installer Qualifications:
 1. Installer must have successfully installed the same or similar systems required for the project and other projects of similar size and scope.

- B. Manufacturer Qualifications:
 - 1. Manufacturer must be capable of fabricating glazed aluminum curtain walls that meet or exceed the stated performance requirements.
- C. Source Limitations:
 - 1. Obtain aluminum curtain wall system through one source from a single manufacturer.
- D. Product Options:
 - 1. Information on drawings and in specifications establishes requirements for aesthetic effects and performance characteristics of assemblies. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction.
 - 2. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.
- E. Mockups:
 - 1. Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 2. Build mockups for the type(s) of curtain wall elevation(s) indicated, in location(s) shown on drawings.
- F. Pre-installation Conference:
 - 1. Conduct conference at project site to comply with requirements in Division 01 Project Management and Coordination Section.

1.7 PROJECT CONDITIONS

- A. Field Measurements:
 - 1. Verify actual locations of structural supports for glazed aluminum curtain walls by field measurements before fabrication.
 - 2. Indicate measurements on shop drawings.

1.8 WARRANTY

- A. Submit manufacturer's standard warranty for owner's acceptance.
- B. Warranty Period:
 - 1. Two years from Date of Substantial Completion of the project provided however that in no event shall the Limited Warranty begin later than six months from date of shipment by manufacturer.

PART 2 PRODUCTS

2.1 MANUFACTURERS

EDITOR NOTE: Retain this article for proprietary method specification; add product attributes, performance characteristics, material standards, and descriptions as applicable. DO NOT USE the phrases "OR EQUAL," "OR APPROVED EQUAL," or similar. Use of such phrases causes ambiguity in the specifications because of the different interpretations among the divergent parties of the construction process and readers of the specifications. Such phrases require extensive and complete requirements (procedural, legal, regulatory, and responsibility) for determining "OR EQUAL."

A. Basis-of-Design Product:

1. Kawneer Company, Inc.
2. 1620/1620 SSG Curtain Wall System
 - a. Sightline: 2" (50.8 mm)
 - b. System depth: 6" (152.4 mm) or 7-1/2" (190.5 mm)
 - c. Outside-glazed pressure plate format or structural silicone glazed (SSG) format
3. Tested to AAMA 501

B. Subject to compliance with requirements, provide a comparable product by the following:

EDITOR NOTE: Retain the information below for alternate manufacturers/products as specified in the contract documents. Coordinate this information with bid documents (if any) and the Division 01 Alternates Section. Consult with Kawneer Company for recommendations on alternate manufacturers and products that meet the design criteria and project requirements. Kawneer recommends that other manufacturers who request approval to bid their product as an equal must submit their request in writing ten (10) days prior to the close of bidding.

1. Manufacturer: (_____)
2. Series: (_____)
3. Profile Dimension: (_____)

C. Substitutions:

1. Refer to Division 01 Substitutions Section for procedures and submission requirements.
2. Pre-Contract (Bidding Period) Substitutions:
 - a. Submit written requests ten (10) days prior to bid date.
3. Post-Contract (Construction Period) Substitutions:
 - a. Submit written request in order to avoid installation and construction delays.
4. Product Literature and Drawings:
 - a. Submit product literature and drawings modified to suit specific project requirements and job conditions.
5. Certificates:
 - a. Submit certificate(s) certifying that the substitute manufacturer (1) attests to adherence to specification requirements for curtain wall system performance criteria, and (2) has been engaged in the design, manufacture, and fabrication of aluminum curtain walls for a period of not less than ten (10) years. (*Company Name*).

6. Test Reports:
 - a. Submit test reports verifying compliance with each test requirement required by the project.
 7. Samples:
 - a. Provide samples of typical product sections and finish samples in manufacturer's standard sizes.
- D. Substitution Acceptance:
1. Acceptance will be in written form, either as an addendum or modification.
 2. Acceptance will be documented by a formal change order signed by the owner and contractor.

2.2 MATERIALS

A. Aluminum Extrusions:

1. Alloy and temper recommended by glazed aluminum curtain wall manufacturer for strength, corrosion resistance, and application of required finish
2. Not less than 0.070" (1.8 mm) wall thickness at any location for the main frame
3. Complying with ASTM B221: 6063-T6 alloy and temper
4. Recycled Content:

EDITOR NOTE: Include these Recycled Content specifications if needed to meet project requirements or for a project that includes Green Building Certifications such as LEED, Living Building Challenge (LBC), etc.

EDITOR NOTE: If Recycled Content requirements are not specified, prime (zero recycled content) aluminum could be supplied.

- a. Shall have a minimum of 50% mixed pre- and post-consumer recycled content.
- b. Indicate recycled content, including the percentage of pre- and post-consumer recycled content per unit of product.
- c. Indicate the relative dollar value of recycled content product to the total dollar value of product included in the project.
- d. Indicate the location for recovery of recycled content.
- e. Indicate the location of the manufacturing facility.

B. Aluminum Sheet Alloy:

1. Shall meet the requirements of ASTM B209.

C. Fasteners:

1. Nonmagnetic stainless steel or other materials must be non-corrosive and compatible with aluminum members, trim hardware, anchors, and other components.

D. Anchors, Clips, and Accessories:

1. Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating.
2. Anchors, clips, and accessories shall provide sufficient strength to withstand the design pressure indicated.

- E. Pressure Plate:
 - 1. Pressure plate shall be aluminum.
 - 2. Pressure plate shall be fastened to the mullion with stainless steel screws.
- F. Reinforcing Members:
 - 1. Aluminum, nonmagnetic stainless steel, or nickel/chrome-plated steel complying with ASTM B 456 for Type SC 3 severe service conditions, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating.
 - 2. Reinforcing members must provide sufficient strength to withstand the design pressure indicated.
- G. Sealant:
 - 1. For sealants required within fabricated curtain wall system, provide permanently elastic, non-shrinking, and non-migrating type recommended by sealant manufacturer for joint size and movement.
- H. Thermal Barrier:
 - 1. Thermal separator shall be extruded of a silicone compatible elastomer that provides a minimum 1/4" (6.3 mm) separation.
- I. Tolerances:
 - 1. References to tolerances for wall thickness and other cross-sectional dimensions of glazed curtain wall members are nominal and in compliance with AA Aluminum Standards and Data.

2.3 CURTAIN WALL FRAMING

- A. Framing Members:
 - 1. Manufacturer's standard extruded- or formed-aluminum framing members of thickness required and reinforced as required to support imposed loads
 - 2. Glazing System: Four-sided captured , vertical SSG, horizontal SSG
 - 3. Glazing Plane: Front
- B. Glass:
 - 1. 1" (25.4 mm) insulating glass option
 - 2. 1/4" (6.4 mm) for spandrel applications
- C. Brackets and Reinforcements:
 - 1. Manufacturer's standard high-strength aluminum with non-staining, non-ferrous shims for aligning system components.
- D. Framing Sealants:
 - 1. Shall be suitable for glazed aluminum curtain wall as recommended by sealant manufacturer.
- E. Fasteners and Accessories:
 - 1. Manufacturer's standard corrosion-resistant, non-staining, non-bleeding fasteners and accessories must be compatible with adjacent materials.
 - 2. Where exposed, fasteners and accessories shall be stainless steel.

F. Perimeter Anchors:

1. When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action.

G. Packing, Shipping, Handling, and Unloading:

1. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

H. Storage and Protection:

1. Store materials so that they are protected from exposure to harmful weather conditions.
2. Handle material and components to avoid damage.
3. Protect material against damage from elements, construction activities, and other hazards before, during, and after installation.

2.4 GLAZING

A. Glazing to meet requirements in Division 08 Glazing Section.

B. Available Glazing Options:

1. Outside glazed pressure plate format with 1" (25.4 mm) double glazed insulating glass

C. Glazing Gaskets:

1. Gaskets to meet requirements of ASTM C864.

D. Spacers and Setting Blocks:

1. Manufacturer's standard elastomeric type

E. Bond-Breaker Tape:

1. Manufacturer's standard TFE-fluorocarbon or polyethylene material to which sealants will not develop adhesion.

F. Glazing Sealants:

1. As recommended by manufacturer for joint type.

2.5 OPERABLE UNITS

A. Doors comply with Division 08 Aluminum-Framed Entrances and Storefronts Section.

B. Windows comply with Division 08 Aluminum Windows Section.

2.6 ACCESSORY MATERIALS

A. Bituminous Paint:

1. Cold-applied asphalt-mastic paint
2. Complies with SSPC-Paint 12 requirements except containing no asbestos
3. Formulated for 30-mil (0.762 mm) thickness per coat

B. InLighten® Light Shelf:

1. Aluminum light shelf system that consists of anchor channels, support beams, fascia trims, and Aluminum Composite Material (ACM) panels.
2. Anchored directly to the curtain wall intermediate horizontal members.
3. Interior-mounted to reflect daylight deeper into interior space.
4. Light Shelf system consists of:
 - a. Aluminum Composite Material (ACM) panel, 4 mm thick.
 - b. Translucent polycarbonate panel, 4 mm or 16 mm thick.
 - c. ACM finish on upper and lower surface selected from Kawneer standard finishes.
 - d. Extruded aluminum outriggers and fascia.
 - e. Extruded aluminum anchor designed to secure to compatible verticals of framing system.
 - f. Anchor shall be designed to engage shelf so as to allow the shelf to rotate down and safely hang on its own for cleaning.
 - g. Extruded aluminum shear blocks designed to hinge on the anchors to allow rotating individual shelves for cleaning.
 - h. Panel/shelf projection not exceeding 30" (762 mm).
 - i. Mullion spacing of framing system shall not exceed 6' (1.83 m) on center.
 - j. Panel/shelf deflection shall not exceed 1/120 of horizontal span length.
5. Framing system to support Light Shelf (select one from list):

EDITOR NOTE: Delete from the list below the framing system that does not apply to this project.

 - a. Curtain wall framing system
 - b. Storefront framing system
6. Submittals for Light Shelf:
 - a. Manufacturer's installation instructions
 - b. Samples for verification:
 - 1) Factory-applied finish as selected by architect
 - 2) Functioning Light Shelf sample demonstrating operation
 - c. Shop drawing, including plans, elevations, sections, fabrication, and installation details
 - d. Validation from manufacturer of single-source for light shelf and framing system and compatibility between the systems

2.7 FABRICATION

- A. Extrude or form aluminum shapes before finishing.
- B. Fabricate components that, when assembled, have the following characteristics:
1. Profiles that are sharp, straight, and free of defects or deformations
 2. Accurately fitted joints
 3. Physical and thermal isolation of glazing from framing members
 4. Accommodations for thermal and mechanical movements of glazing and framing that maintain required glazing edge clearances
 5. Provisions for field replacement of glazing from exterior

6. Fasteners, anchors, and connection devices that are concealed from view to the greatest extent possible
 7. Internal weeping system or other means to drain water passing joints, condensation occurring within framing members, and moisture migrating within glazed aluminum curtain wall to exterior
- C. Curtain Wall Framing:
1. Fabricate components for assembly using shear block system following manufacturer's standard installation instructions.
- D. After fabrication, clearly mark components to identify their locations in project according to shop drawings.

2.8 ALUMINUM FINISHES

EDITOR NOTE: Select the appropriate finish and color from Kawneer's standard colors listed below. Custom colors are available upon request from Kawneer. Other pigmented organic coatings conforming to AAMA 2603 are available. Consult with your Kawneer representative for other surface treatments and finishes.

- A. Finish designations that are prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- B. Factory Finishing:
1. Kawneer Permanodic® AA-M10C21A44, AAMA 611, Architectural Class I Color Anodic Coating (Color _____)
 2. Kawneer Permanodic® AA-M10C21A41, AAMA 611, Architectural Class I Clear Anodic Coating (Color #14 Clear) (Optional)
 3. Kawneer Permanodic® AA-M10C21A31, AAMA 611, Architectural Class II Clear Anodic Coating (Color #17 Clear) (Standard)
 4. Kawneer Permafluor™ (70% PVDF), AAMA 2605, Fluoropolymer Coating (Color _____)
 5. Kawneer Permادize® (50% PVDF), AAMA 2604, Fluoropolymer Coating (Color _____)
 6. Kawneer Permacoat™ AAMA 2604, Powder Coating (Color _____)
 7. Other: Manufacturer _____ Type _____ (Color _____)

PART 3 EXECUTION

3.1 EXAMINATION

- A. With installer present, examine areas for compliance with requirements for installation tolerances and other conditions affecting performance of the work.
- B. Proceed with installation only after correcting unsatisfactory conditions.

3.2 INSTALLATION

EDITOR NOTE: Coordinate this article with manufacturer's recommended installation details and installation instructions.

A. Curtain Wall System Installation:

1. Install curtain wall systems plumb, level, and true to line, without warp or rack of frames, within manufacturer's prescribed tolerances, and complying with installation instructions.
2. Provide support and anchor in place.
3. Dissimilar Materials:
 - a. Provide separation of aluminum materials from sources of corrosion or electrolytic action contact points.
4. Glazing:
 - a. Glass shall be outside-glazed.
 - b. Glass shall be held in place with extruded aluminum pressure plates anchored to the mullion using stainless steel fasteners that are spaced no more than 9" (228.6 mm) on center.
5. Water Drainage
 - a. Each light of glass shall be compartmentalized using joint plugs and silicone sealant to divert water to the horizontal weep locations.
 - b. Weep holes shall be located in the horizontal pressure plates and covers to divert water to the exterior of the building.

B. Related Products Installation:

1. Sealants (Perimeter):
 - a. Refer to Joint Treatment (Sealants) Section.
2. Glass:
 - a. Refer to Glass and Glazing Section.
 - b. Reference: ANSI Z97.1, CPSC 16 CFR 1201, and GANA Glazing Manual.

3.3 FIELD QUALITY CONTROL

A. Field Tests:

1. Architect shall select curtain wall units to be tested as soon as a representative portion of the project has been installed, glazed, perimeter-caulked, and cured.
2. Conduct tests for air infiltration and water penetration with manufacturer's representative present.
3. Tests that do not meet the specified performance requirements and units that have deficiencies shall be corrected as part of the contract amount.
4. Testing shall be performed per AAMA 503 by a qualified independent testing agency. Refer to Testing Section for payment of testing and testing requirements.
5. Air Infiltration Tests:
 - a. Conduct tests in accordance with ASTM E 783.
 - b. Allowable air infiltration shall not exceed 1.5 times the amount indicated in the performance requirements or 0.09 cfm/ft², whichever is greater.
6. Water Infiltration Tests:
 - a. Conduct tests in accordance with ASTM E 1105.
 - b. No uncontrolled water leakage is permitted when tested at a static test pressure of two-thirds the specified water penetration pressure but not less than 8 psf (383 Pa).

B. Manufacturer's Field Services:

1. Upon owner's written request, provide periodic site visit by manufacturer's field service representative.

3.4 ADJUSTING, CLEANING, AND PROTECTION

A. Adjusting: Not applicable.

B. Protection:

1. Protect installed product's finish surfaces from damage during construction.
2. Protect aluminum curtain wall system from damage from grinding and polishing compounds, plaster, lime, acid, cement, or other harmful contaminants.

C. Cleaning:

1. Repair or replace damaged installed products.
2. Clean installed products in accordance with manufacturer's instructions prior to owner's acceptance.
3. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during the construction period.
4. Remove construction debris from project site and legally dispose of debris.

END OF SECTION 084413

NOTES AND DISCLAIMERS

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor. It is the responsibility of the owner, the specifier, the architect, the general contractor, and the installer and the fabricator/transformer, consistent with their roles, to determine the appropriate materials for a project in strict conformity to all applicable national, regional and local building codes and regulations.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

Information contained herein or related hereto is intended only for evaluation by technically skilled persons, with any use thereof to be at their independent discretion and risk. Such information is believed to be reliable, but Kawneer shall have no responsibility or liability for results obtained or damages resulting from such use.

This guide specification is intended to be used by a qualified construction specifier. The guide specification is not intended to be used verbatim as a project specification without appropriate modifications for the specific use intended. The guide specification must be used and coordinated with the procedures of each design firm and the particular requirements of a specific construction project.

Kawneer grants no license under, and shall have no responsibility or liability for infringement of, any patent or other proprietary right. Nothing in this document should be construed as a warranty or guarantee by Kawneer, and the only applicable warranties will be those set forth in Kawneer acknowledgment or in any printed warranty documents issued by Kawneer. The foregoing may be waived or modified only in writing by a Kawneer officer.

© 2014, Kawneer Company, Inc.

Agenda Item: 2025 ARB Meeting Schedule

Meeting Date: September 18, 2024

Category: New Business

Prepared by: Aaron Zoellick, Clerk of Boards and Commissions

Description:

The meeting schedule for the Architectural Review Board is prescribed by the ARB bylaws.

The Department of Community Development, in coordination with the Town Clerk's office, would like to propose a resolution to set the meeting schedule for Calendar Year 2025. The meeting schedule is generally modified to accommodate holidays and occasions of conflicts with other Town meetings and events. The adopted meeting schedule is included in the printed annual town calendar, which is currently under development.

Background:

Staff has prepared the proposed resolution for Calendar Year 2025 based on the following guidelines:

- ARB regular meetings are scheduled for the third Wednesday of the month. In the event that a regular meeting falls on a holiday, the bylaws allow for the meeting to be shifted to the fourth Wednesday of the month;
- ARB work sessions are scheduled on the first Wednesday of the month. In the event such date falls on a holiday, the meeting shall be held on the second Wednesday of the month;
- Meeting dates may be changed by resolution of the board.

Budget Impact:

N/A

Recommendation:

Recommend approval of the 2025 ARB Meeting Schedule in accordance with the proposed resolution.

Attachments:

1. Resolution (Proposed)

**TOWN OF HERNDON, VIRGINIA
ARCHITECTURAL REVIEW BOARD**

RESOLUTION

SEPTEMBER 18, 2024

Resolution- **to establish the Architectural Review Board meeting schedule for January 1, 2025, to December 31, 2025.**

BE IT RESOLVED by the Architectural Review Board of the Town of Herndon, Virginia, that:

1. In accordance with the meeting schedule set out in the Architectural Review Board bylaws, the meeting schedule for calendar year 2025 is hereby adopted as follows:

January 8, 2025	Work Session
January 15, 2025	Regular Meeting
February 5, 2025	Work Session
February 19, 2025	Regular Meeting
March 5, 2025	Work Session
March 19, 2025	Regular Meeting
April 2, 2025	Work Session
April 16, 2025	Regular Meeting
May 7, 2025	Work Session
May 21, 2025	Regular Meeting
June 4, 2025	Work Session
June 18, 2025	Regular Meeting
July 2, 2025	Work Session
July 16, 2025	Regular Meeting
August 6, 2025	Work Session
August 20, 2025	Regular Meeting
September 3, 2025	Work Session
September 17, 2025	Regular Meeting
October 1, 2025	Work Session
October 15, 2025	Regular Meeting
November 12, 2025	Work Session
November 19, 2025	Regular Meeting
December 3, 2025	Work Session
December 17, 2025	Regular Meeting

2. The Architectural Review Board directs staff to include the meeting schedule in the 2025 annual town calendar.