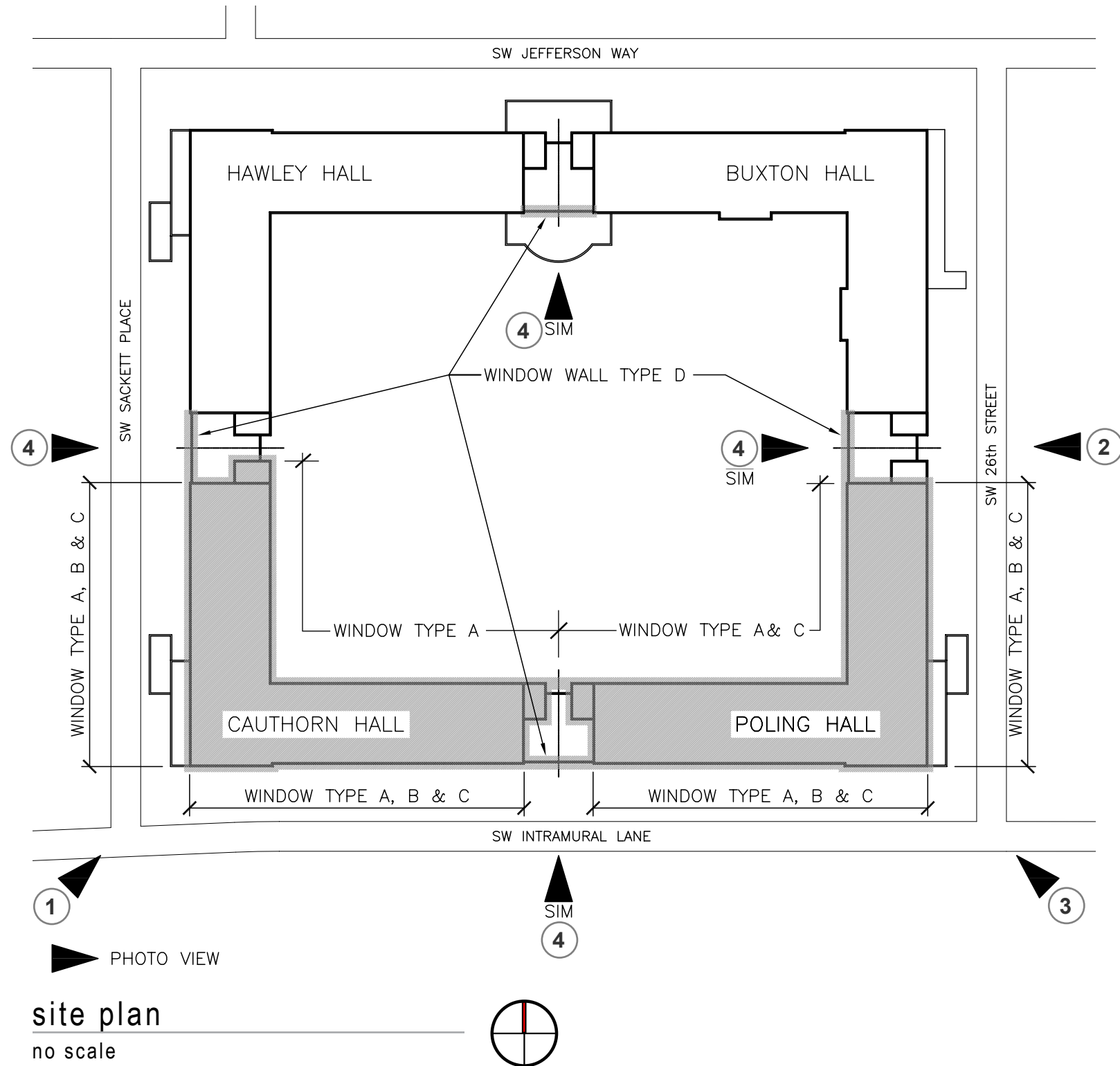


cauthorn hall & poling hall window replacement historic design review set



december 17, 2019



existing type B window

existing type C window



existing window conditions

proposed type B window

proposed type C window



proposed window replacement

cauthorn hall perspective view from southwest
window replacement

1

december 17, 2019





existing type C windows

existing type B windows

existing type A windows



existing window conditions

proposed type C windows

proposed type B windows

proposed type A windows



proposed window replacements

proposed type A windows, beyond



- existing type A window
- existing windows - buxton hall (hawley similar)
- existing type D storefront window wall



existing

- existing seismic joint flashing
- proposed type D storefront window wall
- proposed type A windows
- proposed flashing allows for future seismic joint
- low-e glazing
- casement window
- glazed spandrel panel with color to compliment pre-cast stone color



proposed

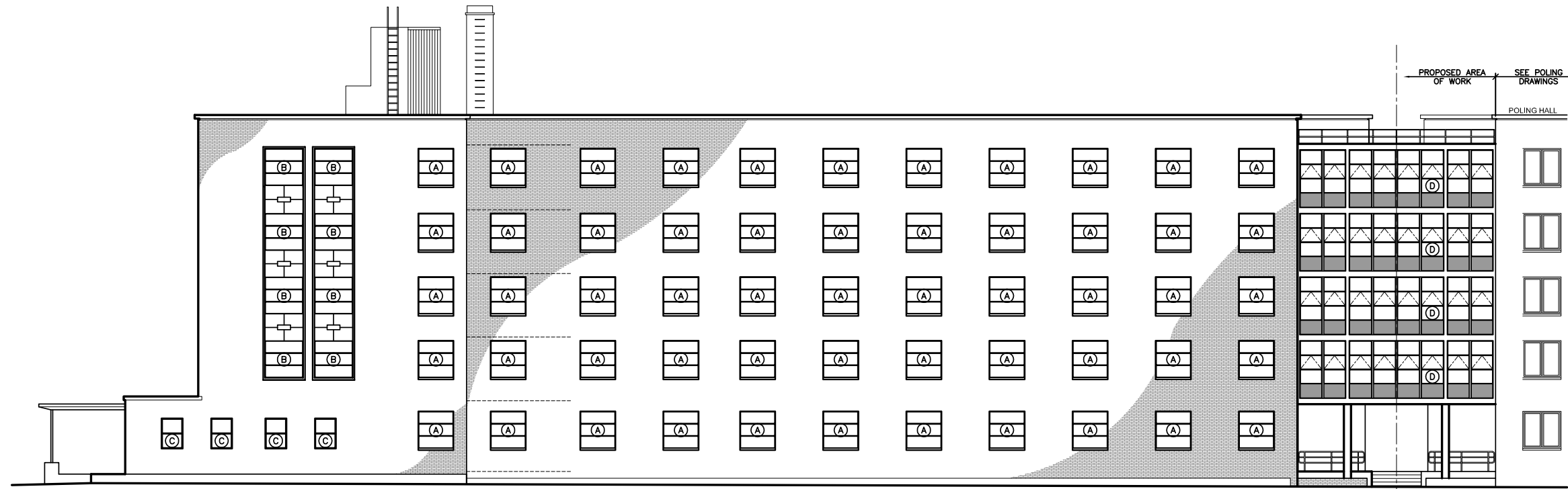
cauthorn hall west window-wall view (similar @ south window-wall)
 window replacement
 december 17, 2019

4



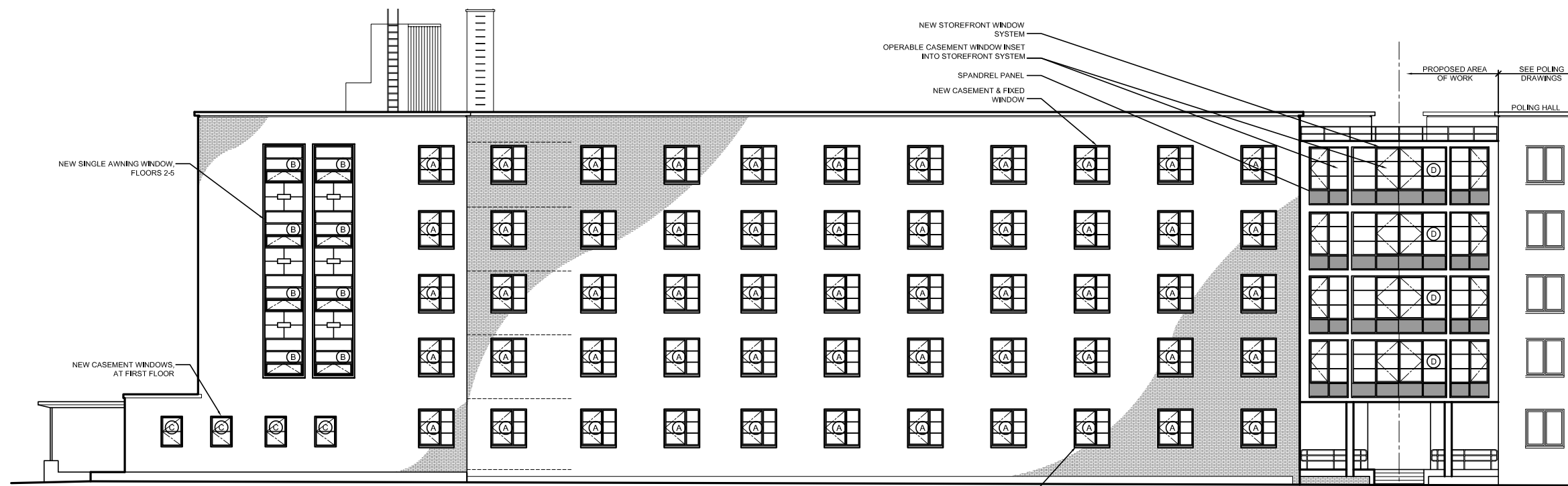
Attachment E





2 South Elevation - Cauthorn Hall
 AC3.1 SCALE: 1/8" = 1'-0"

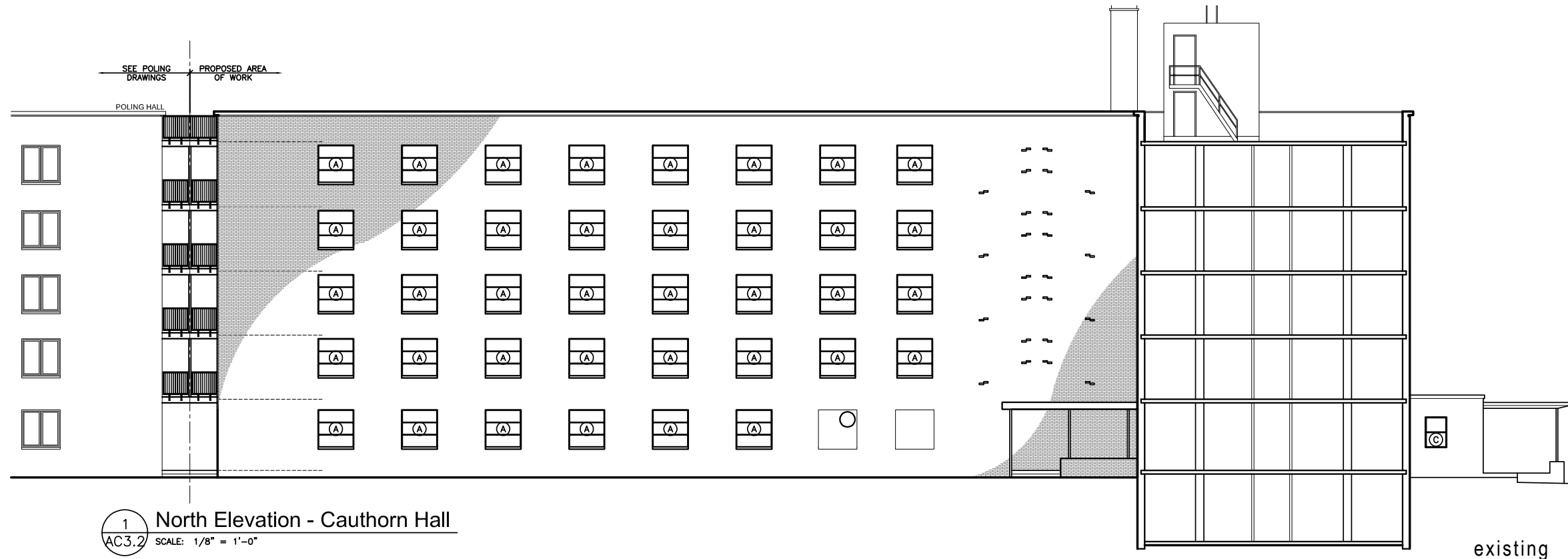
existing



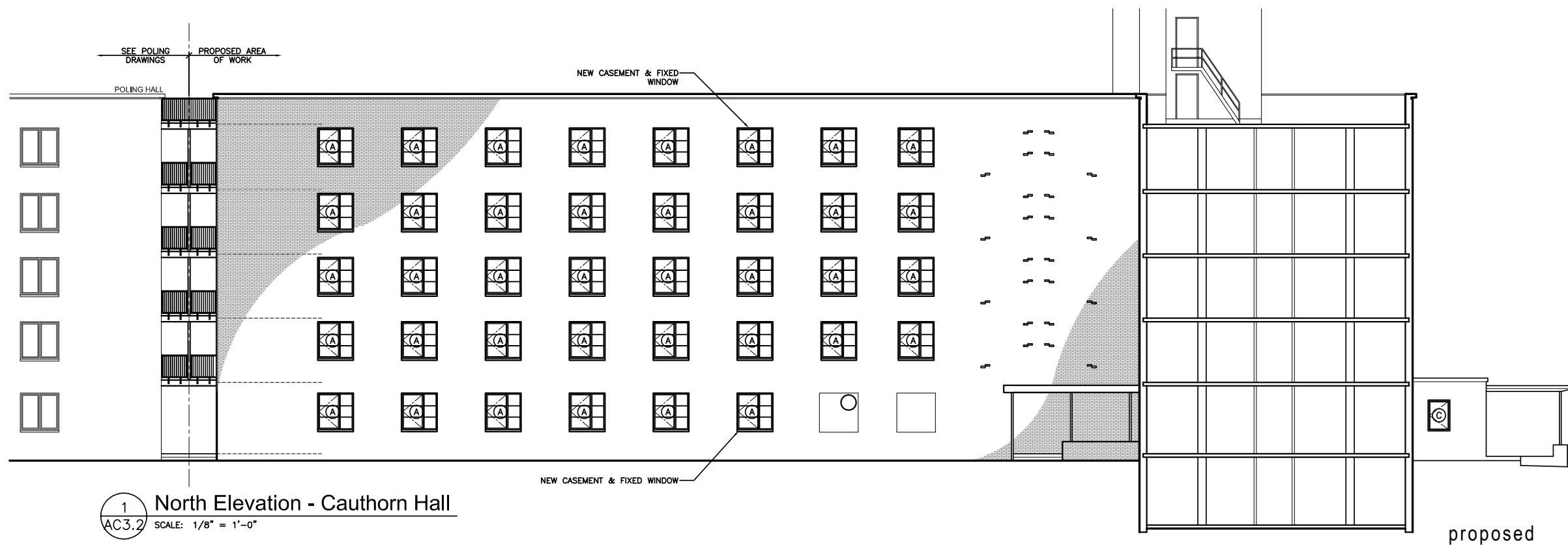
2 South Elevation - Cauthorn Hall
 AC3.1 SCALE: 1/8" = 1'-0"

proposed



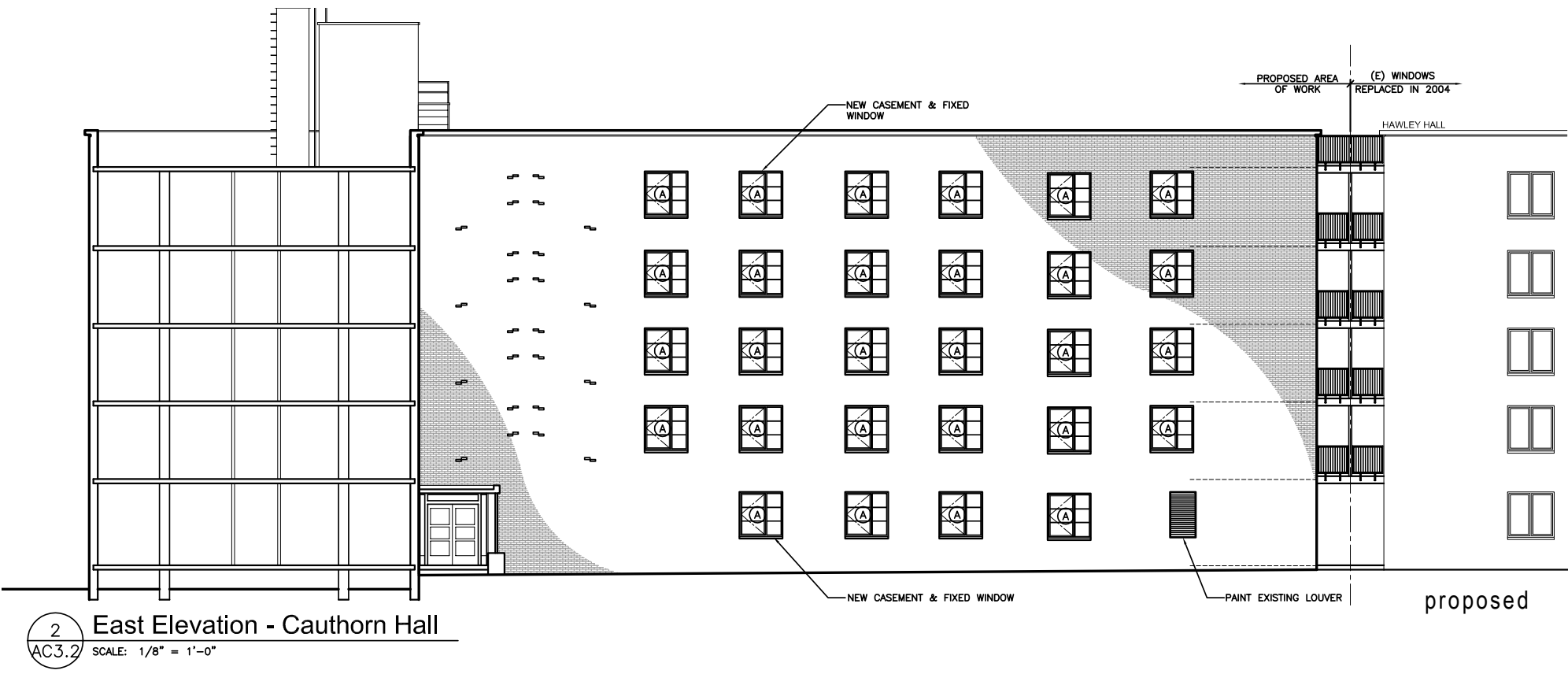
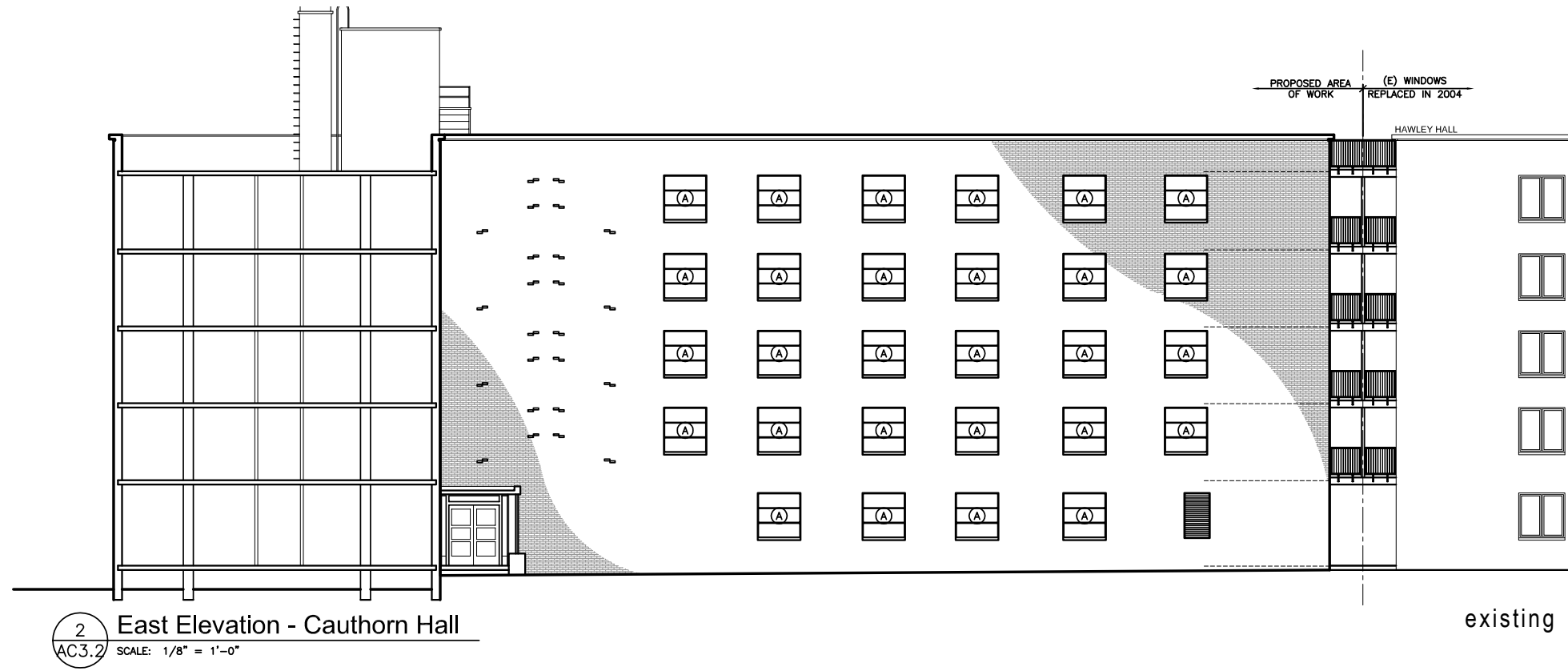


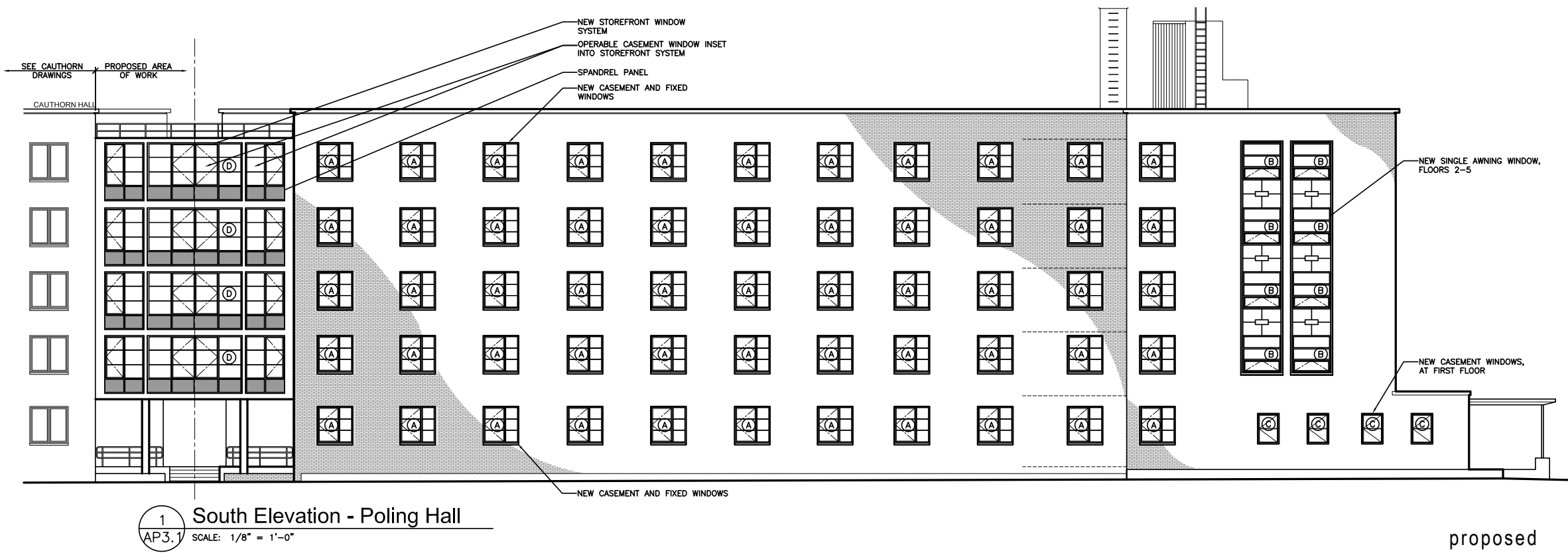
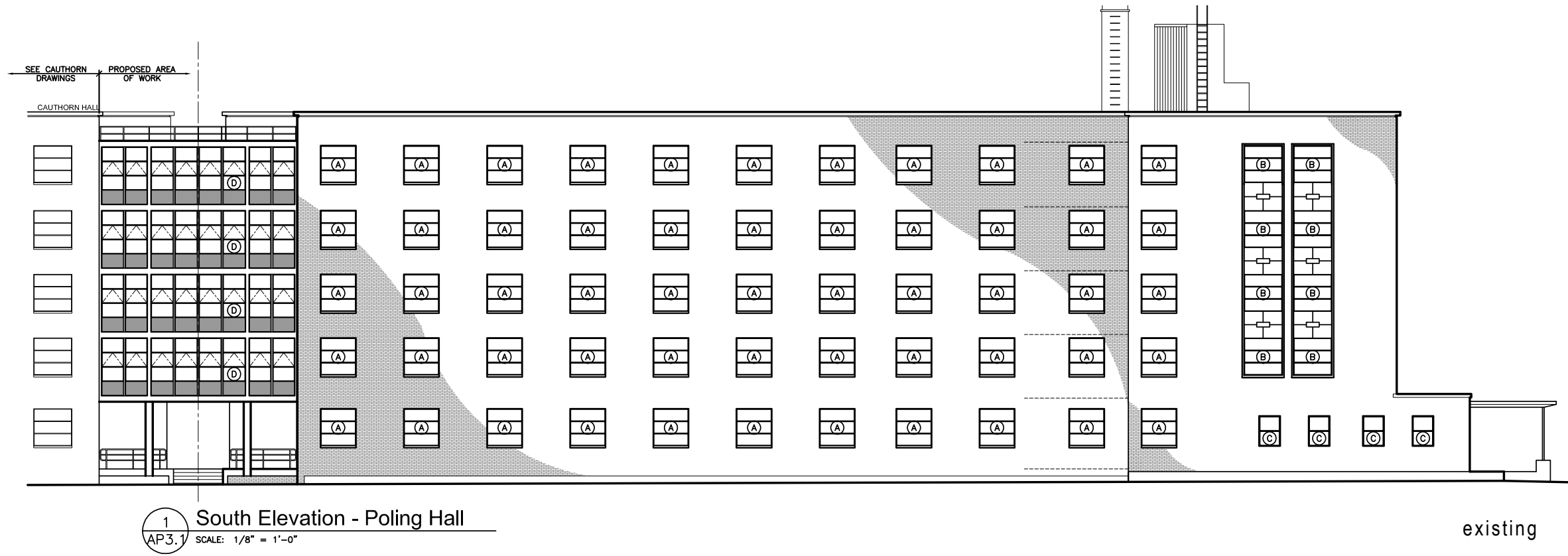
1 North Elevation - Cauthorn Hall
AC3.2 SCALE: 1/8" = 1'-0"



1 North Elevation - Cauthorn Hall
AC3.2 SCALE: 1/8" = 1'-0"







poling hall
 window replacement
 december 17, 2019

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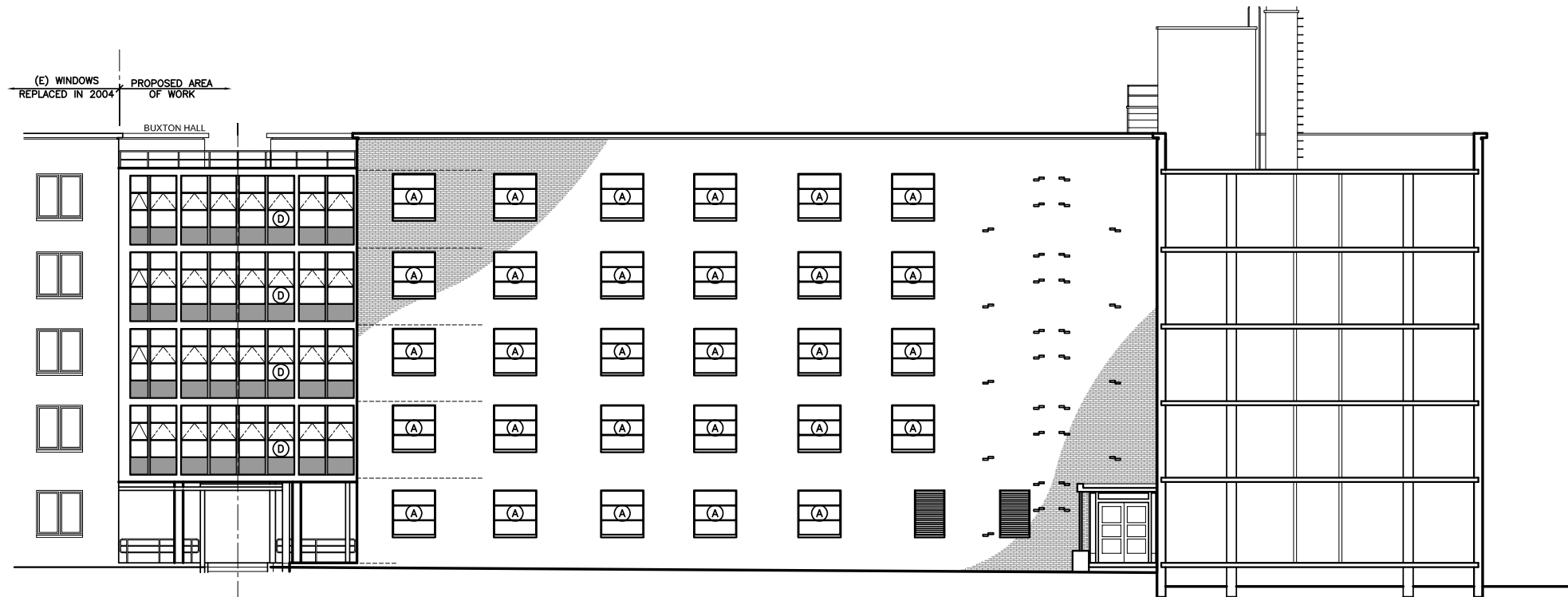


existing



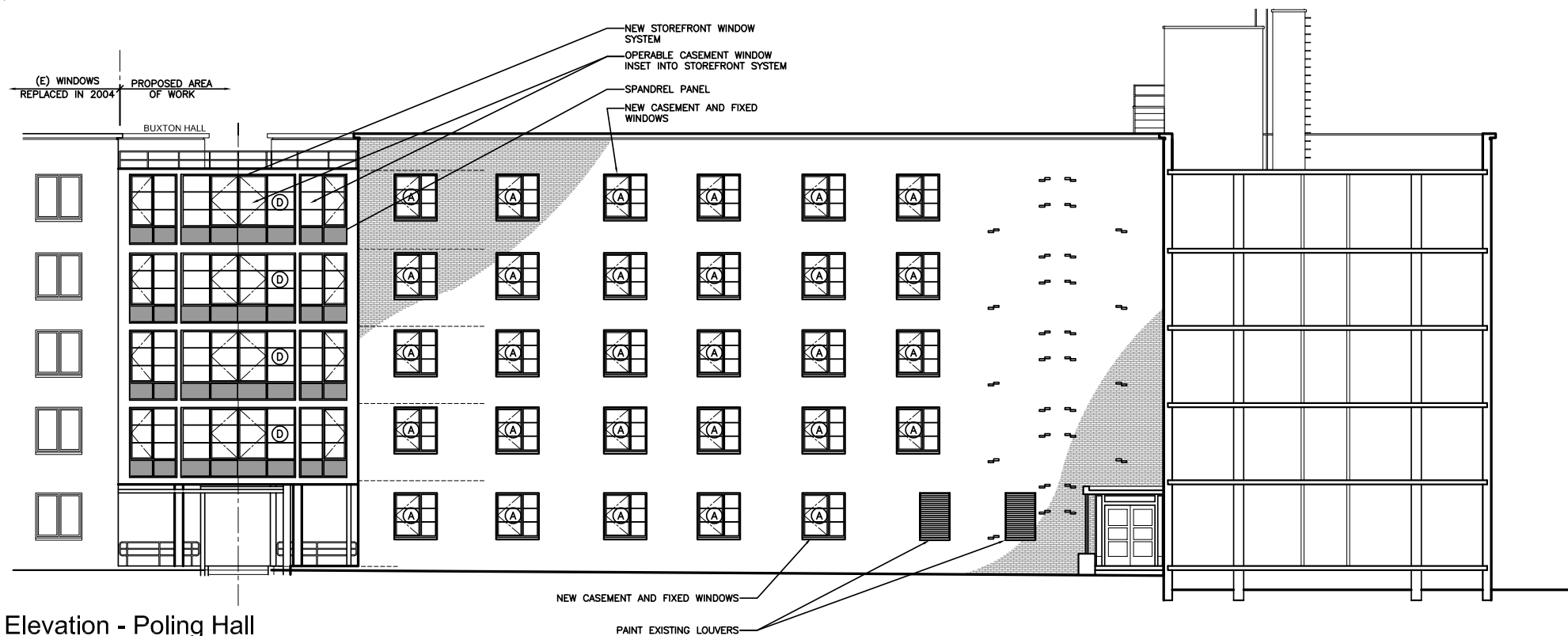
proposed





1 West Elevation - Poling Hall
 AP3.2 SCALE: 1/8" = 1'-0"

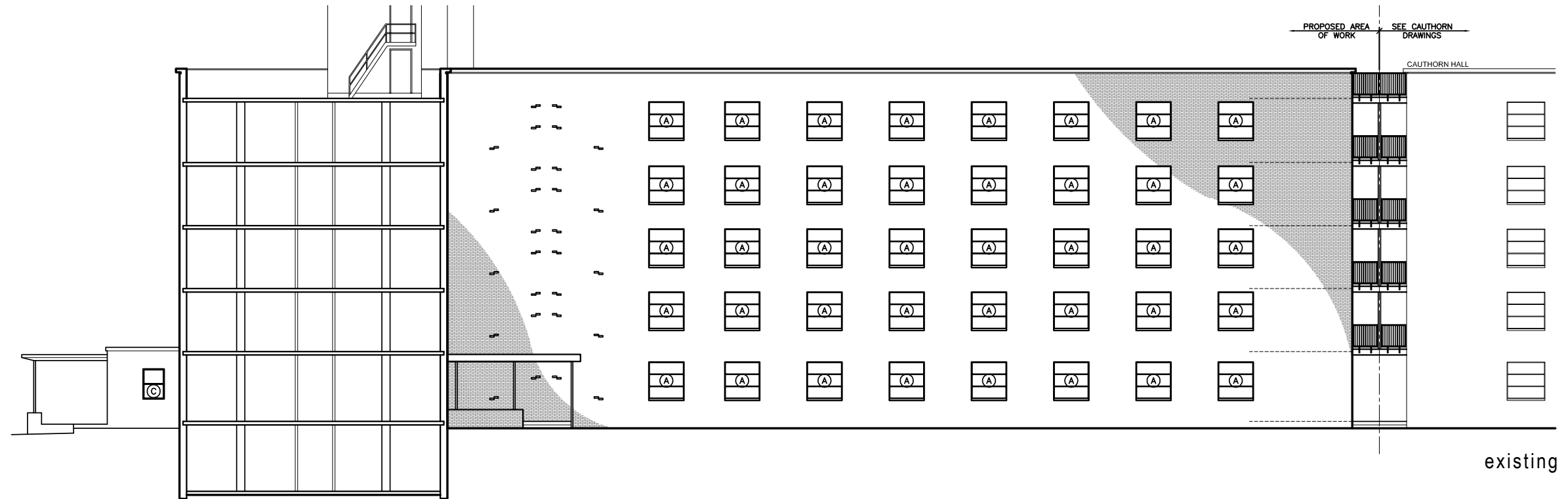
existing



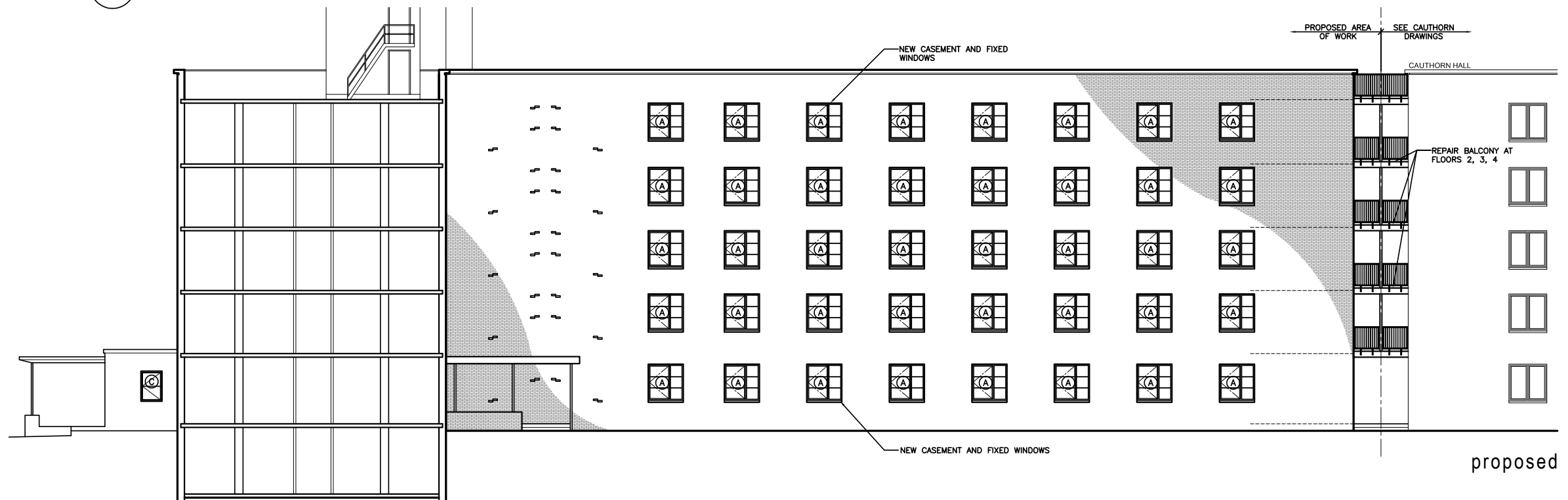
1 West Elevation - Poling Hall
 AP3.2 SCALE: 1/8" = 1'-0"

proposed



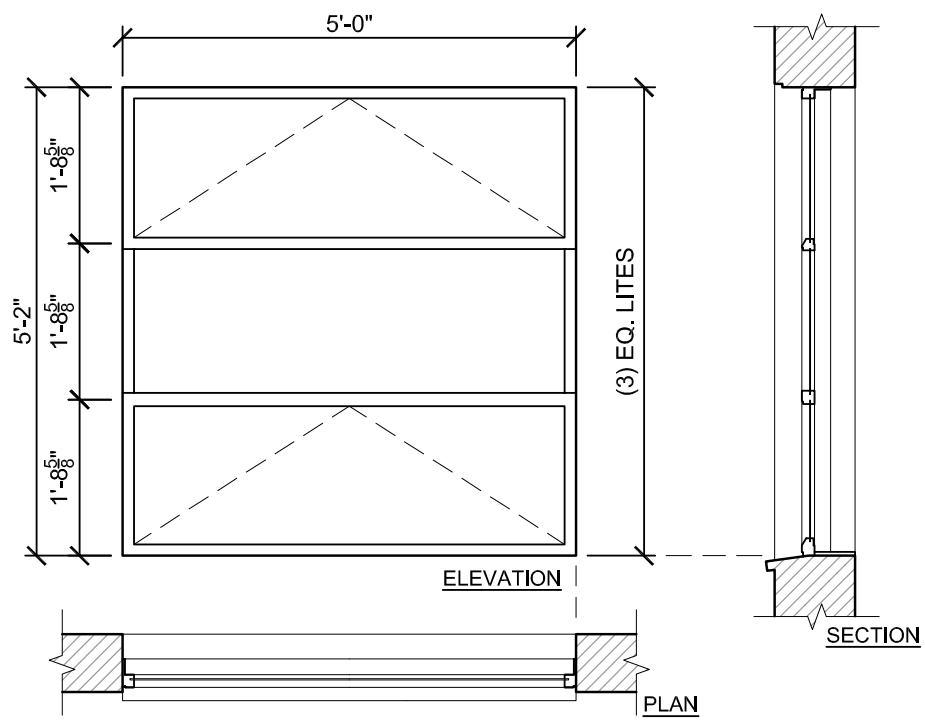


2 North Elevation - Poling Hall
 AP3.2 SCALE: 1/8" = 1'-0"



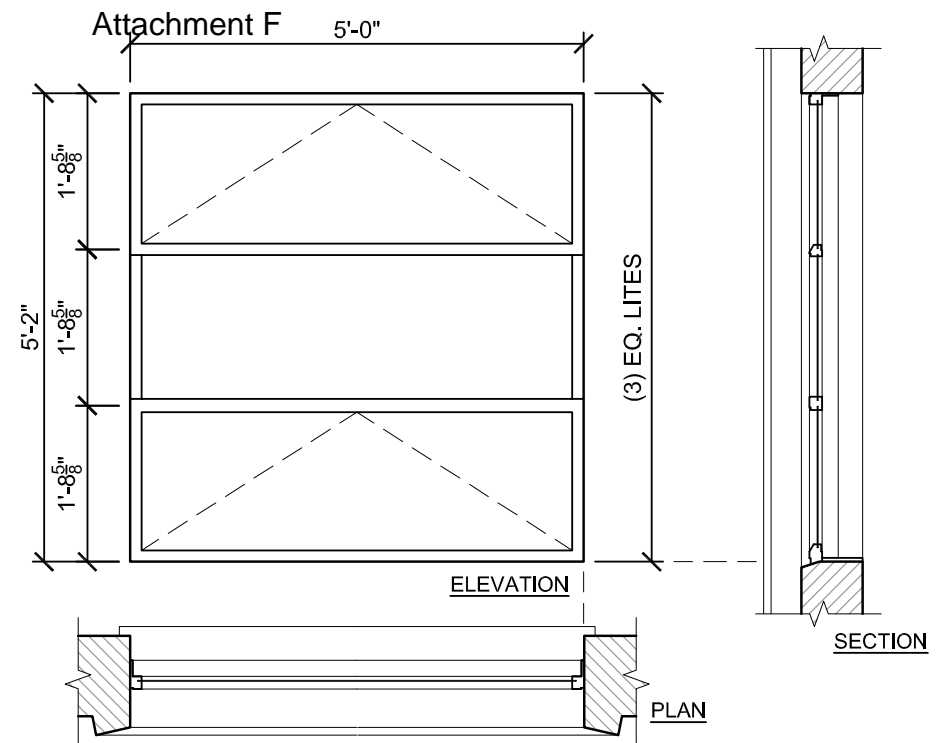
2 North Elevation - Poling Hall
 AP3.2 SCALE: 1/8" = 1'-0"



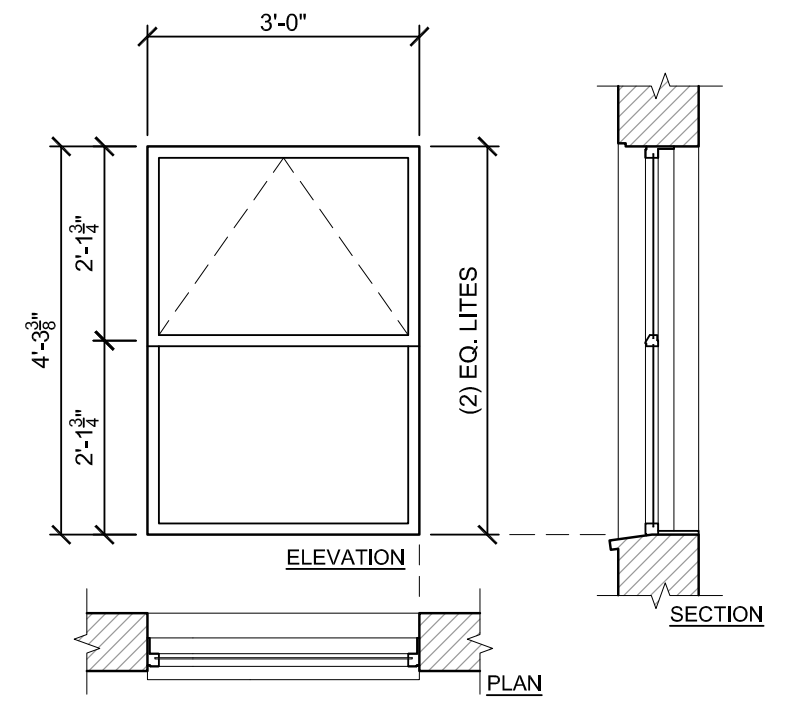


A EXISTING ALUMINUM DOUBLE AWNING

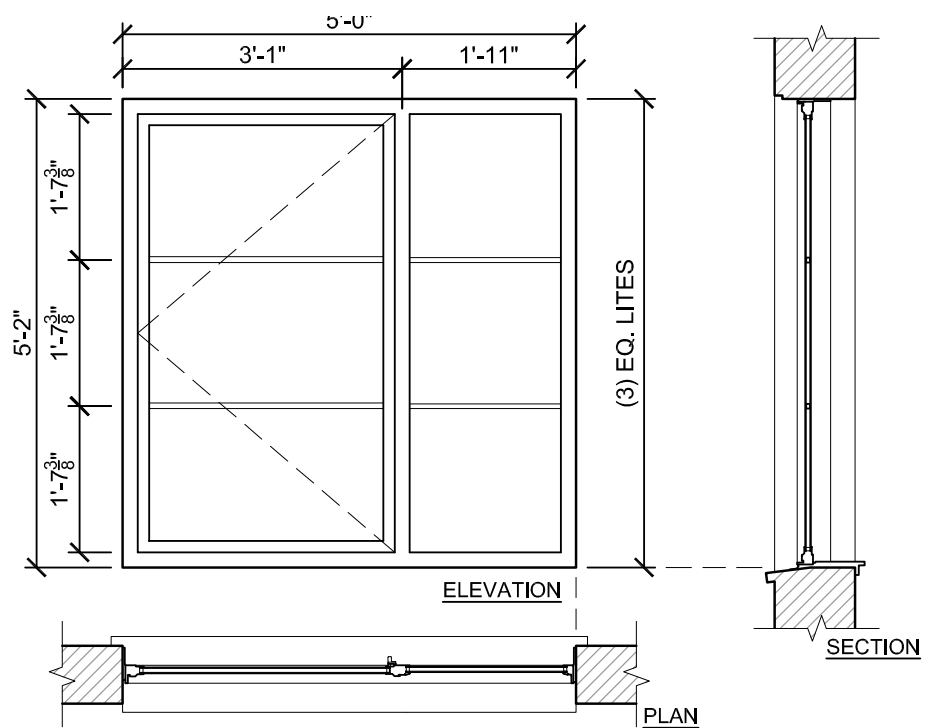
existing window types



B EXISTING ALUMINUM DOUBLE AWNING

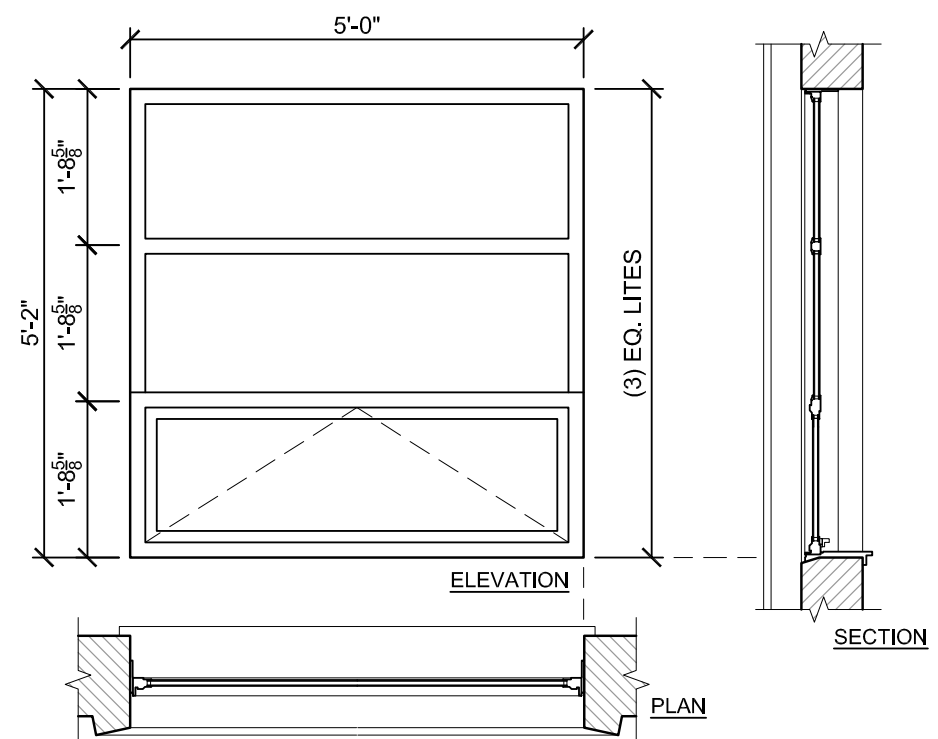


C EXISTING ALUMINUM AWNING

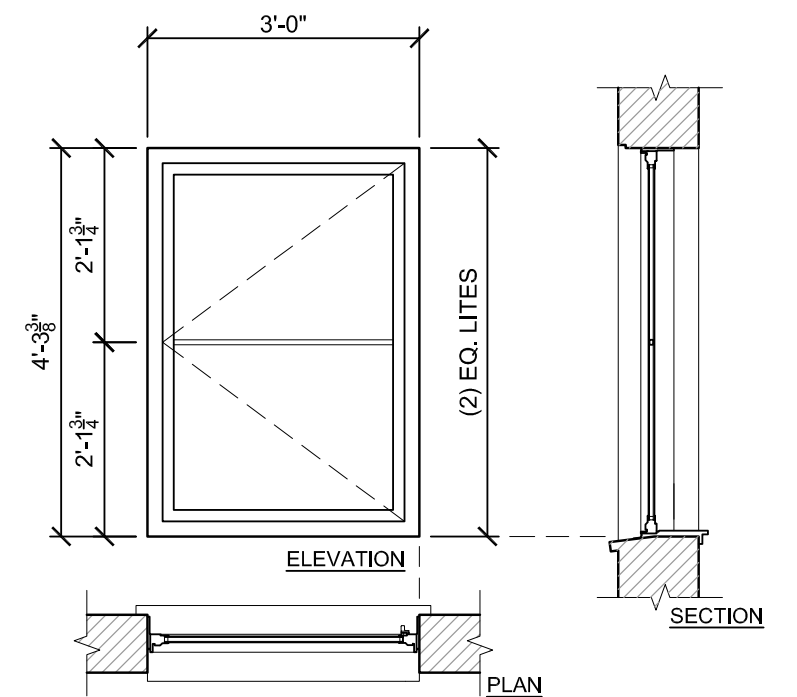


A NEW CLEAR ANODIZED ALUM. CASEMENT & FIXED PANEL

proposed window types

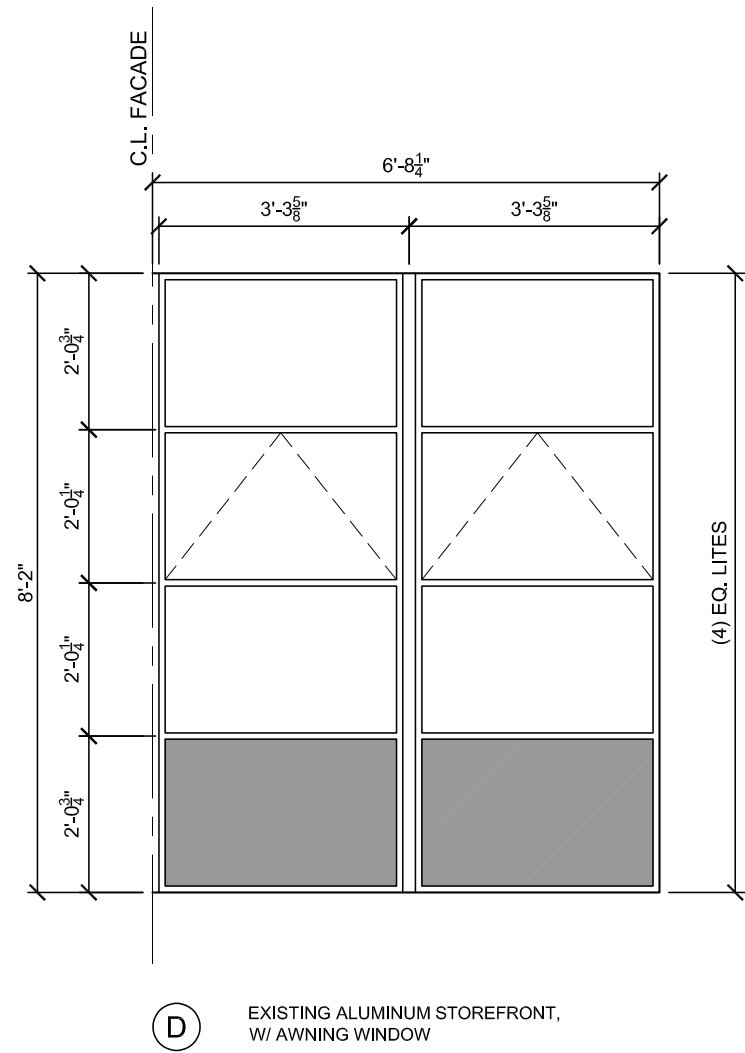


B NEW CLEAR ANODIZED ALUM. SINGLE AWNING & FIXED PANEL

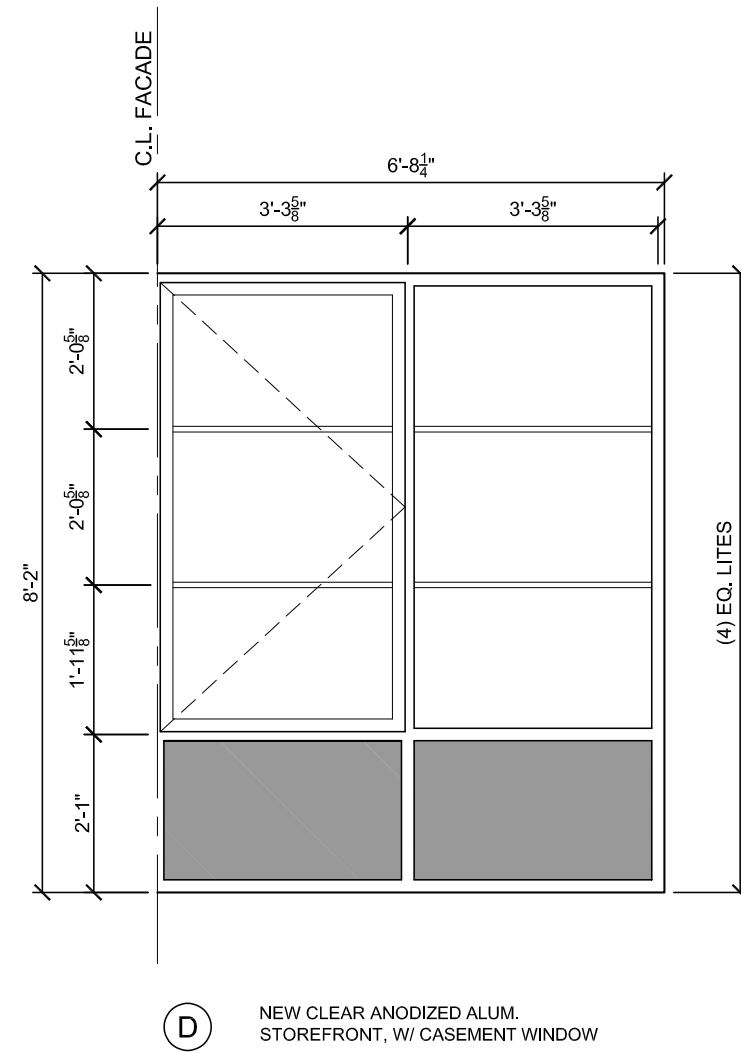


C NEW CLEAR ANODIZED ALUM. CASEMENT





existing storefront type



proposed storefront type



**Window Alteration Chart
Window Type "A"**

Window Feature	Existing	New/Modified
Location	Resident rooms. West and North frontages (courtyard). South and East frontages.	Same Location
Size	5'-0" x 5'-2" nominal masonry opening.	Same size.
Style (Casement, double-hung, etc.)	Awning	Fixed/Casement
Frame Material	Aluminum	Aluminum
Clad? (if yes, state material)	No	No
Trim Material	None	None
Trim Style	N/A	N/A
Trim Dimensions	N/A	N/A
Operable?	Yes	Yes
Grid Pattern	Horizontal muntin bars separating the glazing into (3) equally divided lites.	Single vertical mullion dividing the window for a 2/3 offset sash. Two horizontal grilles dividing each sash into (3) equal lites.
Individual Lites or Attached Grid?	Individual lites	Simulated lites
Single or Double Pane?	Single	Double
Other details?	Clear anodized finish	Clear anodized finish

Window Type "B"

Window Feature	Existing	New/Modified
Location	Lounge areas. West, South and East frontages.	Same Location
Size	5'-0" x 5'-2" nominal masonry opening.	Same size.
Style (Casement, double-hung, etc.)	Awning	Awning
Frame Material	Aluminum	Aluminum
Clad? (if yes, state material)	No	No
Trim Material	None	None
Trim Style	N/A	N/A
Trim Dimensions	N/A	N/A
Operable?	Yes	Yes
Grid Pattern	Horizontal muntin bars separating the glazing into (3) equally divided lites.	Horizontal muntin bars separating the glazing into (3) divided lites.
Individual Lights or Attached Grid?	Individual lites	Individual lites
Single or Double Pane?	Single	Double
Other details?	Clear anodized finish	Clear anodized finish



Window Type “C”

Window Feature	Existing	New/Modified
Location	Ground Floor Resident Assistant Apartments. South and East corner frontages	Same Location
Size	3'-0" x 4'-3-3/8" nominal masonry opening.	Same size.
Style (Casement, double-hung, etc.)	Awning	Casement
Frame Material	Aluminum	Aluminum
Clad? (if yes, state material)	No	No
Trim Material	None	None
Trim Style	N/A	N/A
Trim Dimensions	N/A	N/A
Operable?	Yes	Yes
Grid Pattern	Horizontal muntin bars separating the glazing into (2) equally divided lites.	Horizontal muntin bars separating the glazing into (2) equally divided lites.
Individual Lights or Attached Grid?	Individual lites	Simulated
Single or Double Pane?	Single	Double
Other details?	Clear anodized finish	Clear anodized finish

Window Type “D” (Window Wall)

Window Feature	Existing	New/Modified
Location	Floors 2-5 – link window-walls South frontage – between Poling and Cauthorn Halls. West frontage – between Poling and Buxton Halls	Same Location
Size	End bays – 5'-6" wide x 8' high nom. Center Bay – 13'-4-1/2" wide x 8' high nom.	End bays – 5'-6" wide x 8' high nom. Center Bay – 13'-4-1/2" wide x 8' high nom.
Style (Casement, double-hung, etc.)	Storefront Infill into Structural Grid with awning sashes.	Storefront Infill into Structural Grid with Casement sashes
Frame Material	Aluminum	Aluminum
Clad? (if yes, state material)	N/A	N/A
Trim Material	N/A	N/A
Trim Style	N/A	N/A
Trim Dimensions	N/A	N/A
Operable?	Yes	Yes
Grid Pattern	Vertical mullion bars dividing each bay equally. Horizontal transom bars separating the glazing into (4) equally divided panels.	Vertical mullion bars dividing each bay equally. Horizontal muntin bars separating the glazing into (4) equally divided lites.
Individual Lights or Attached Grid?	Individual lites	Simulated
Single or Double Pane?	Single Pane	Double Pane
Other details?	Clear anodized aluminum finish storefront with painted insulated infill at lower spandrel panel. Painted break-metal covers at structural grid.	Clear anodized aluminum finish storefront with opaque glass lower spandrel panel. Pre-finished break-metal covers at structural grid.



Architectural Manual

Standard ALUMINUM SERIES Windows & Patio Doors



Attachment G

A Standard Aluminum window is made of extruded aluminum. No enhancements are made to reduce thermal transfer.

Features and benefits of Standard Aluminum windows include:

- Sealed, mechanically-joined corners stay square and true over years of use, helping to keep homes dry.
- Clean, narrow sight lines for contemporary designs and maximum view area.
- Milgard SunCoat® Low-E glass for excellent energy savings and protection against fabric fading.
- Industry-leading Full Lifetime Warranty.
- Anodized coating or painted finish helps to prevent against rusting, pitting and corroding.

Overview

All Standard Aluminum Series Casement and Awning windows are available in both standard and custom sizes to match virtually any design, either new or retrofit.

Components

FRAME

Frame components are made from 6063-T5 aluminum alloy with a structural wall thickness of .125", and non-structural wall thickness of .062". The frame is available in clear and bronze anodized finishes with a standard .4" mil coating thickness, and white baked enamel finish. Wide screw spacing on the mechanically joined corners ensure a rigid connection with a consistent dimension. Corners are sealed for added protection from the weather.

Awning and casements are available with either a standard frame with nail-on fin, or with Milgard's specially designed H-Bar™ frame for wood stop or retrofit application. The standard frame is 2-1/4" in width and the H-Bar is 1-1/4" wide with 5/8" legs that provide a surface area for wood stop installation. Both types utilize 3/4" overall glazing for either fixed or vented sections.

NAIL-ON FIN

An integral nailing fin extends 1" around the perimeter of the standard frame and is used to attach the window into the rough opening. The fin is scored for complete removal for retrofit/wood stop installations. The fin is set back 1-1/16" from the exterior edge of the frame. The optional H-Bar frame has no nailing fin and must be stopped in the opening.

WEEP SYSTEM

The rectangular weep holes are located in the frame sill for effective drainage and moisture control.

GLAZING MATERIAL

AAMA approved glazing tape adheres glass to the fixed and vent frame and seals and cushions the glass. Rigid vinyl setting blocks are used to support the glass-unit, preventing glass slip-page and glass-to-metal contact. Extruded vinyl glazing (snapin) bead is applied around the exterior edge. Metal bead is available at some locations.

GLASS

Glass options are available in 3/4" overall insulating units in clear, tinted, reflective, obscure, Low-E, and safety glass. Other specialty glass is available upon request.

HINGES

Two types of hinges are available with awning/casement, one standard and one for egress application. The stainless steel egress hinge allows a full 90 degree rotation opening. The standard hinge is zinc-plated steel with a sliding brass shoe, which is tension adjustable and is completely concealed when the window is in a closed position. Each vent uses two hinges.

WEATHERSTRIPPING

For casements and awnings, a dual durometer vinyl bulb seal surrounds the entire perimeter of the vent frame, creating a positive, weather tight seal.

LOCKING ASSEMBLY

Friction Hardware
Hand-operated push out latch located on the vent which secures against a polyester strike plate and provides a positive lock and tight seal.

Note: On Casements over 36" in height, two handles are utilized to ensure a tight seal.

SCREEN

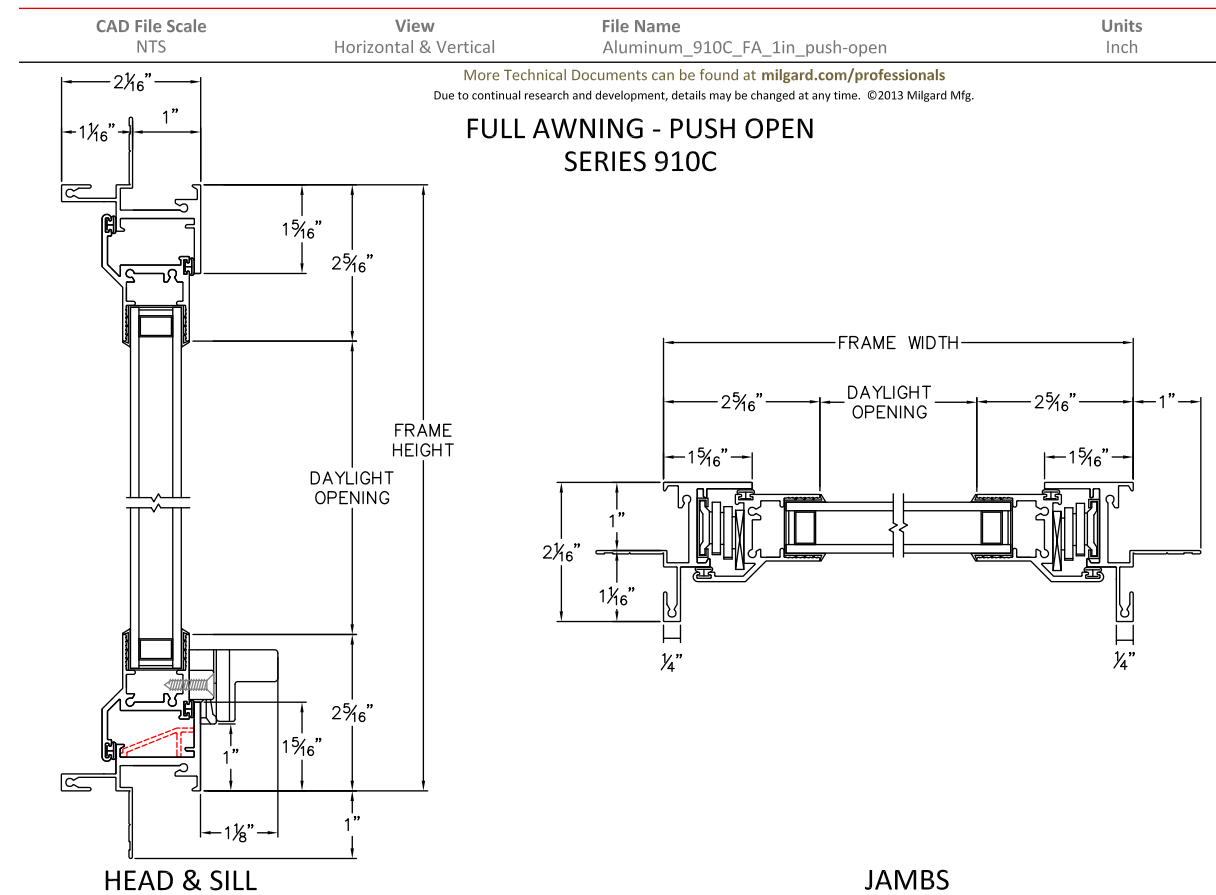
Screen frames are aluminum, finished with three coats of color matched baked polyester for long-term durability. The screen material is an attractive, low maintenance, gray fiberglass mesh. Screens are installed on the inside of casement and awning windows using four screw-mounted vinyl L-clips that secure through pre-drilled holes in the window frame. A wicket may be inset into the screen, giving access to the lock for vent operation.

milgard series 910c aluminum awning - type B window, milgard series 910s aluminum casement - type A & C window



Awning Window

1-1/16" Setback - Push Open



milgard series 910c aluminum awning - type B window

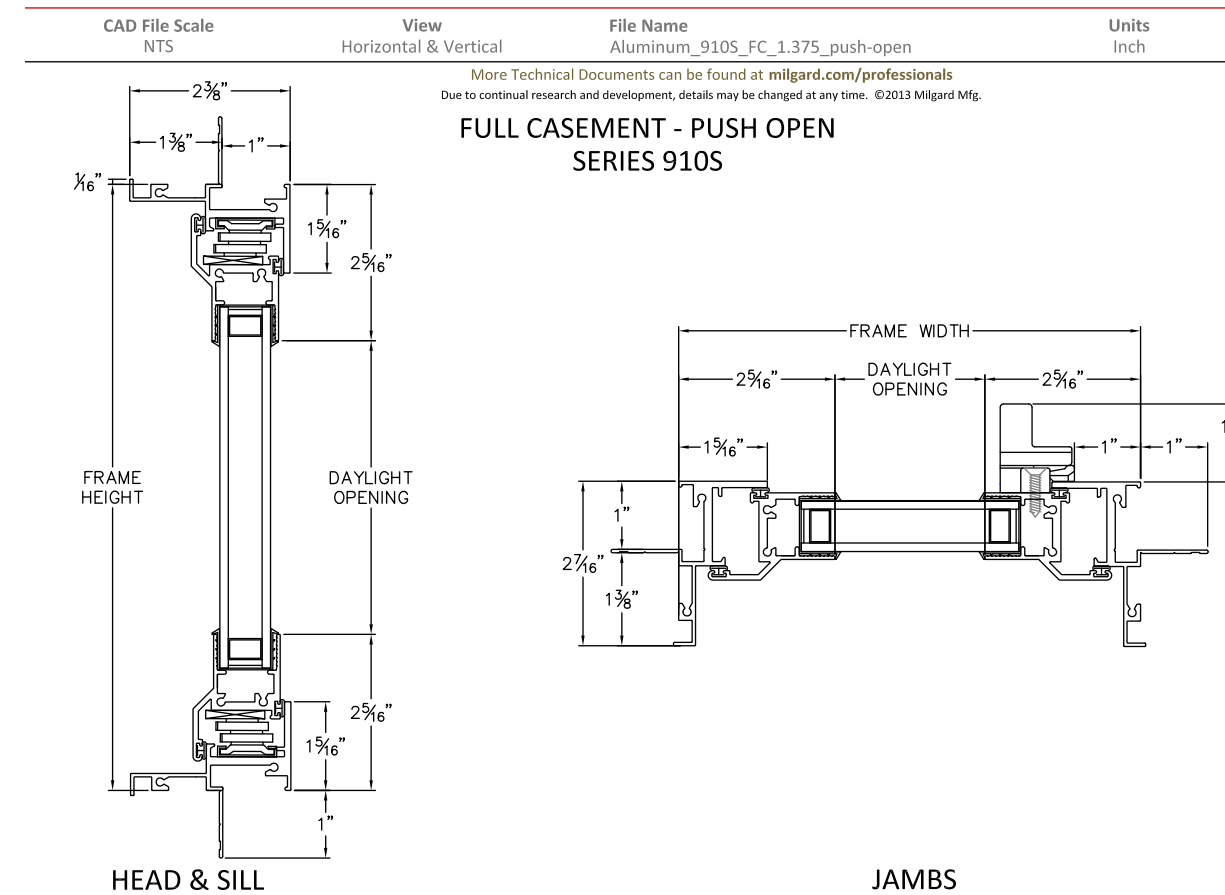
JAMBS Awning

Aluminum Series awning windows are durable with clean lines and a modern look. This window hinges at the top and opens with a crank handle to ventilate your home without rain or leaves blowing in.

[Learn more](#) →

Casement Window

1-3/8" Setback - Push Open



milgard series 910s aluminum casement - type A & C window

JAMBS Casement

All Milgard aluminum windows are built to your exact specifications. Aluminum casement windows can be easily combined with other casements or operating styles for a dramatic effect. Casement windows open to the exterior of the home with a side hinge, similar to a door.

[Learn more](#) →





AESTHETICS

8225TLF Thermal Windows are available as fixed, project-in, project-out, inswing casement and outswing casement. Windows feature fixed and natural ventilation options. The natural ventilation panel on the 8225TLF Thermal Window is set flush in the frame without overlap of either the exterior or the interior frame surfaces. Overall frame depth is 2-1/4" (57 mm).

Cast white bronze locking hardware lends superior strength and an attractive appearance to 8225TLF Thermal Windows. For single-source décor, simplified maintenance and a neat appearance, Kawneer offers a 1" (25.4 mm) integral venetian blind option with tilt control and a slip mechanism to prevent overtilting.

Units can be used in punched openings or be stacked vertically or horizontally. An assortment of structural mullions allows for larger unit configurations, while several options for anchoring methods, head and jamb receptors, subsills and panning types allow for installation flexibility.

PERFORMANCE

Kawneer's solution to all-season comfort and owner satisfaction is the IsoLock™ thermal break design that effectively separates the interior of the windows from the exterior in the frame members. IsoLock™ is different because its lanced design creates positive interlock between the polyurethane and aluminum components of a pour-and-debridge thermal break. IsoLock™ mechanically joins these two materials into a single composite element, thus protecting from any possibility of shrinkage of the polyurethane from the frame.

Factory glazing is standard for 8225TLF Thermal Windows and assures that only the highest-quality glazing methods, procedures and materials are used. Infills range from 1/4" to 1-1/2" (6.4 mm to 38 mm). A dual glazing option creates additional interior comfort. Components include an interior access panel.

Window ventilators feature mitered, clipped, sealed and staked corners for a rugged joint that securely supports even the largest recommended window size, while the butt frame joints are secured with two stainless steel fasteners in extruded screw ports, ensuring strong, watertight corners.

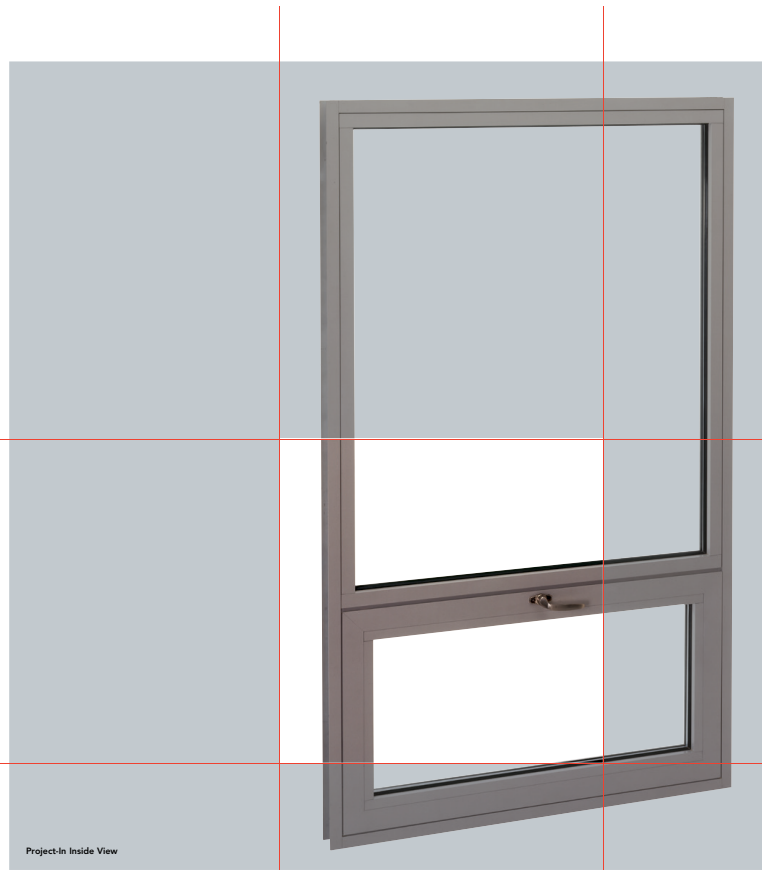
8225TLF Thermal Windows feature a vent and frame design that retards air infiltration and water penetration under the most severe weather conditions. The windows are fully tested and meet or exceed AAMA/WDMA/CSA 101/I.S. 2/A440 performance standards.

CLASS	GRADE
Fixed	AW-PG90-FW
Projected	AW-PG90-AP
Casement	AW-PG90-C

Choose Kawneer 8225TLF Thermal Windows:

- For flush ventilators and heavy, 1/8" (3.2 mm) wall thickness
- For superior thermal performance
- For fully engineered and tested designs
- For versatility with elegant aesthetics
- For the advantage of Kawneer single-source responsibility

Flush and Clear Choices for Framing Your Vision



Project-In Inside View



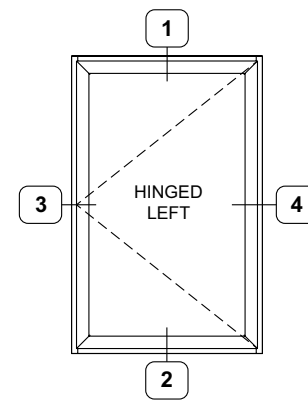
Inswing Casement Inside View

The elegant aesthetics of Kawneer's 8225TLF Thermal Windows are tough enough for school systems or government buildings and versatile enough to restore historic structures. They blend seamlessly into remodel projects or new construction and provide peak performance.

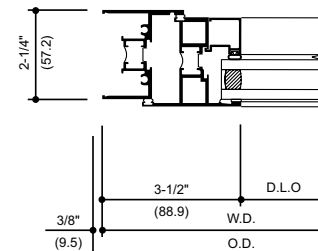
Kawneer's precision engineering and elements of design excellence have created hallmark windows that combine flush ventilation with heavy 1/8" (3.2mm) wall thicknesses for applications requiring strength, a sophisticated appearance and superior thermal performance.

kawneer series 8225TL fixed/outswing - type D window-wall

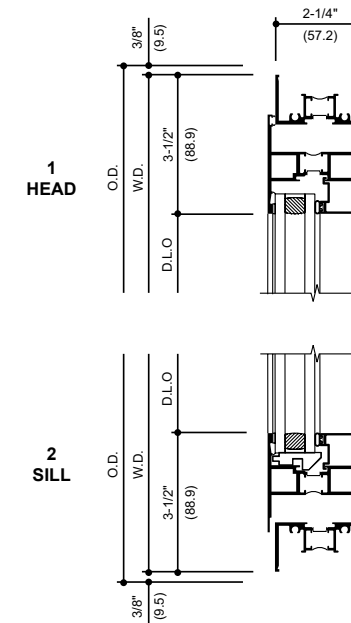
CLASS and GRADE	Architectural Grade C-HC90 / C-AW90 / AW-PG90-C
TESTING STANDARD	AAMA / WDMA / CSA 101 / I.S. 2 / A440 (NAFS)
FRAME DEPTH	2-1/4" Overall Frame Depth



TYPICAL ELEVATION

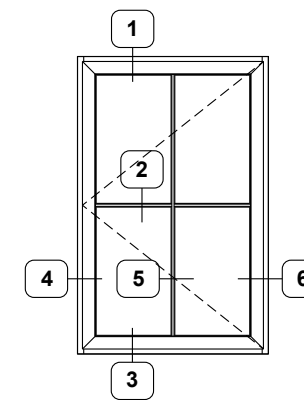


3 JAMB

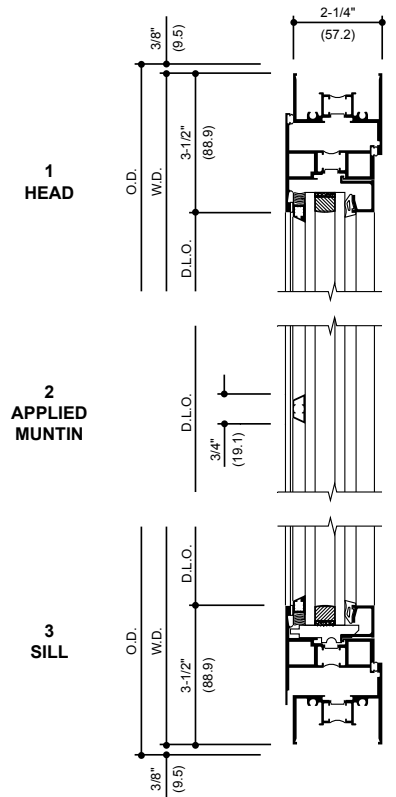


1 HEAD

2 SILL



TYPICAL ELEVATION



1 HEAD

2 APPLIED MUNTIN

3 SILL

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window replacement

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