

## **HCCSC – HNHS Window Replacement**

**Project #** 2025.0012

**November 26, 2025**

### **ADDENDUM NO. 4**

This addendum is issued as a supplement to the plans and specifications and shall be considered an integral part of the same. Acknowledgement of receipt of this addendum is required on the Bid Form.

- Item:** A-4.1  
**Location:** Specification Section 088000 - GLAZING  
**Description:** DISCARD in its entirety the Specification Section 088000 Glazing from the Specification Book issued: 11/14/2025 and replace with the attached revised [ADDENDUM #4] EXHIBIT #1 – [Specification Section] 088000 – GLAZING. Note the addition of “IMPACT PROTECTION ATTACHMENT (IPA) SEALANT that shall be installed at all 3M Safety Film installation locations.
- Item:** A-4.2  
**Location:** ADDENDUM #2 – Additional Scope of Work  
**Description:** CLARIFICATION – Contractor shall provide and install 3M Safety Film with IPA sealant at the sidelight of Door #309 only. See [ADDENDUM #4] EXHIBIT #2 – DOOR #309 SIDELIGHT.
- Item:** A-4.3  
**Location:** ADDENDUM #2 – Additional Scope of Work  
**Description:** CLARIFICATION – Contractor shall provide and install 3M Safety Film and IPA sealant at Door #1 vestibule transoms only. See [ADDENDUM #4] EXHIBIT #3 – VESTIBULE TRANSOMS.
- Item:** A-4.4  
**Location:** Existing Doors to be reinstalled in new Curtainwall.  
**Description:** CLARIFICATION – Contract shall provide and install new curtainwall system so that existing door subframes are not needed.
- Item:** A-4.5  
**Location:** General Information  
**Description:** Contractor shall provide and install new Door Number signs / placards at all door locations (interior and exterior) affected by the Window Replacement project.
- Item:** A-4.6  
**Location:** Additional Scope of Work  
**Description:** Contractor shall remove and replace five (5) existing fixed window in Commons with new storefront framing similar to details 8, 11, 12 on Sheet A5.01. The window / storefront sills shall be a 2” profile. Repair and patch walls to match existing conditions once the storefront frames are installed. The masonry opening of the (5) fixed windows (to be field verified) are 2’-0” x 8’-0”. See [ADDENDUM #4] EXHIBIT #4 – FIXED WINDOW.

**Item:** A-4.7  
**Location:** Room 130  
**Description:** CLARIFICATION – The vertical blinds in Room 130 shall be removed, salvaged, stored from construction damage, and reinstalled once the new curtainwall installation is completed.

**Item:** A-4.8  
**Location:** Room 336  
**Description:** CLARIFICATION – The rolling shades in Room 336 shall be removed, salvaged, stored from construction damage, and reinstalled once the new curtainwall installation is complete.

**EXHIBITS:**

[ADDENDUM #4] EXHIBIT #1 – 088000 - GLAZING  
[ADDENDUM #4] EXHIBIT #2 – DOOR #309 SIDELIGHT  
[ADDENDUM #4] EXHIBIT #3 – VESTIBULE TRANSOMS  
[ADDENDUM #4] EXHIBIT #4 – FIXED WINDOW

## SECTION 088000 - GLAZING

### PART 1 - GENERAL

#### 1.1 Summary

- A. Section Includes:
  - 1. Flat Glass.
  - 2. Sealed Insulating Glass Units.
  - 3. Sealed Insulating Spandrel Glass Units.
  - 4. Safety Window Film.

#### RELATED SECTIONS

- A. Section 084313 – Aluminum Storefront Framing.
- B. Section 084413 – Glazed Curtainwall.

#### 1.2 REFERENCES

- A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials; current edition.
- B. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings, Safety Performance Specifications and Methods of Test.
- C. ASTM C 864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers.
- D. ASTM C 920 - Standard Specification for Elastomeric Joint Sealants.
- E. ASTM C 1036 - Standard Specification for Flat Glass.
- F. ASTM C 1048 - Standard Specification for Heat-Treated Flat Glass--Kind HS, Kind FT Coated and Uncoated Glass.
- G. ASTM C 1172 - Standard Specification for Laminated Architectural Flat Glass.
- H. ASTM C 1193 - Standard Guide for Use of Joint Sealants.
- I. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- J. ASTM E 773 - Standard Test Method for Accelerated Weathering of Sealed Insulating Glass Units.
- K. ASTM E 774 - Standard Specification for the Classification of the Durability of Sealed Insulating Glass Units.
- L. ASTM E 1300 - Standard Practice for Determining Load Resistance of Glass in Buildings.
- M. ASTM E 2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation.
- N. GANA (GM) - GANA Glazing Manual; Glass Association of North America.
- O. GANA (SM) - FGMA Sealant Manual; Glass Association of North America.
- P. GANA (LGDG) - Laminated Glazing Reference Manual; Glass Association of North

America.

- Q. SIGMA TM-3000 - Glazing Guidelines for Sealed Insulating Glass Units; Sealed Insulating Glass Manufacturers Association.

### 1.3 PERFORMANCE REQUIREMENTS

- A. Provide glass and glazing materials for continuity of building enclosure vapor retarder and air barrier:
1. In conjunction with vapor retarder and joint sealer materials described in other sections.
  2. To utilize the inner pane of multiple pane sealed units for the continuity of the air barrier and vapor retarder seal.
  3. To maintain a continuous air barrier and vapor retarder throughout the glazed assembly from glass pane to heel bead of glazing sealant.
  4. Refer to Drawings for Glass Unit Types and their requirements.

### 1.4 SUBMITTALS

- A. See Section 016000, Product Requirements, for submittal procedures.
- B. Product Data on Glass Types: Provide structural, physical and environmental characteristics, size limitations, special handling or installation requirements.
- C. Product Data on Glazing Compounds: Provide chemical, functional, and environmental characteristics, limitations, special application requirements. Identify available colors.
- F. Certificates: Certify that products meet or exceed specified requirements.
- G. Manufacturer's Certificate: Certify that sealed insulated glass meets or exceeds specified requirements.

### 1.7 ENVIRONMENTAL REQUIREMENTS

- A. Do not install glazing when ambient temperature is less than 50 degrees F.
- B. Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.

### 1.8 WARRANTY

- A. Provide a five (5) year warranty to include coverage for sealed glass units from seal failure, inter pane dusting or misting, and replacement of same.

## PART 2 PRODUCTS

### 2.1 GLASS PRODUCTS, STANDARDS

- A. Clear Annealed Float Glass: ASTM C 1036. Type I (transparent flat glass), Quality q3 (glazing select), Class I (clear).

- B. Heat-Treated Float Glass: ASTM C 1048, Type I (transparent flat glass), Quality q3 (glazing select), of class, kind, and condition indicated.
  - 1. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed, unless otherwise indicated.
  - 2. Provide Kind-HS (heat-strengthened) float glass in place of annealed float glass where needed to resist thermal stresses induced by differential shading of individual glass lites and to comply with glass design requirements specified in Part 1 "Performance Requirements" Article.
  - 3. For uncoated glass, comply with requirements for Condition A.
  - 4. For coated vision glass, comply with requirements for Condition C (other uncoated glass).
  - 5. provide Kind-FT (fully tempered) float glass in place of annealed or Kind-HS (heat-strengthened) float glass where safety glass is indicated.
- C. Sputter-Coated Float Glass: ASTM C 1376, float glass with metallic-oxide or nitride coating deposited by vacuum-deposition process after manufacture and heat-treatment (if any) and complying with other requirements specified.
  - 1. Kind: Kind CV (coated vision glass).
    - a. Exception where the lower edge of the glass is more that 6 feet above the adjacent floor level or cannot be approached closer than 10 feet: Kind CO (coated overhead glass).

## 2.2 INSULATING GLASS

- A. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E 2190, and complying with other requirements specified.
  - 1. Provide Kind-HS (heat-strengthened or fully tempered) float glass in place of annealed glass where needed to resist thermal stresses induced by differential shading of individual glass lites and to comply with glass design requirements specified in Part 1 "Performance Requirements" Article.
  - 2. Provide Kind-FT (fully tempered) glass lites where safety glass is indicated.
  - 3. Overall Unit Thickness and Thickness of Each Lite: Dimensions indicated for insulating-glass units are nominal and the overall thickness of units are measured perpendicularly from outer surfaces of glass lites at unit's edge.
  - 4. Exterior; Outboard:
    - a. Eclipse Advantage, Grey Low-E on the #2 surface.
  - 5. Interior; Inboard:
    - a. Energy Advantage, Clear Low-E on the #4 surface.
- B. Sealing System: Dual-seal, with manufacturer's standard primary and secondary.
- C. Spacer: Warm-edge technology as required to meet performance requirements of opening manufacturer.
  - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

- a. Super Spacer by Edgetech I.G., Inc., Lauren International, Inc.
  - b. Insuledge by Truseal Technologies, Building Products Group Quanex Corporation.
  - c. Warm-Light by Azon USA, Inc.
  - d. Technoform Glass Insulation, I-Spacer Division.
- D. Desiccant: Molecular sieve or silica gel, or blend of both.
- E. Spandrel Insulated Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E 2190, and complying with other requirements specified.
  - 1. Provide Kind-HS (heat-strengthened or fully tempered) float glass in place of annealed glass where needed to resist thermal stresses induced by differential shading of individual glass lites and to comply with glass design requirements specified in Part 1 "Performance Requirements" Article.
  - 2. Provide Kind-FT (fully tempered) glass lites where safety glass is indicated.
  - 3. Overall Unit Thickness and Thickness of Each Lite: Dimensions indicated for insulating-glass units are nominal and the overall thickness of units are measured perpendicularly from outer surfaces of glass lites at unit's edge.
  - 4. Exterior; Outboard:
    - a. Eclipse Advantage, Grey Low-E on the #2 surface.
  - 5. Interior; Inboard:
    - a. Energy Advantage, Black Ceramic Frit on the #4 surface.

## 2.3 SAFETY FILM

- A. Manufacturer: 3M.
- B. Product:
  - 1. 3M Safety Window Film Safety S140. NO SUBSTITUTES.
  - 2. 3M Impact Protection Attachment (IPA) Sealant. NOT SUBSTITUTES.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Verify that openings for glazing are correctly sized and within tolerance.
- B. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and ready to receive glazing.

### 3.2 PREPARATION

- A. Clean contact surfaces with solvent and wipe dry.

- B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.
- C. Prime surfaces scheduled to receive sealant.
- D. Install sealants in accordance with ASTM C 1193 and FGMA Sealant Manual.
- E. Install sealant in accordance with manufacturer's instructions.

### 3.3 INSTALLATION - EXTERIOR/INTERIOR DRY METHOD (GASKET GLAZING)

- A. Place setting blocks at 1/4 points with edge block no more than 6 inches (150 mm) from corners.
- B. Rest glazing on setting blocks and push against fixed stop with sufficient pressure on gasket to attain full contact.
- C. Install removable stops without displacing glazing gasket; exert pressure for full continuous contact.

### 3.5 MANUFACTURER'S FIELD SERVICES

- A. Glass and Glazing product manufacturers to provide field surveillance of the installation of their products.
- B. Monitor and report installation procedures and unacceptable conditions.

### 3.6 INSTALLATION – SAFETY FILM

- A. Install Safety Film per manufacturer's instructions.
- B. Install Impact Protection Attachment (IPA) sealant per manufacturer's instructions.

### 3.6 CLEANING

- A. Remove glazing materials from finish surfaces.
- B. Remove labels after Work is complete.
- C. Clean glass and adjacent surfaces.
- D. For safety film, use cleaning agent designed for quality glass surfaces. The cleaning agent use be wet and non-abrasive with a pH value between. 6-8 (neither strongly acidic nor strongly alkaline).

END OF SECTION 088000



EXHIBIT 2  
DOOR #309 – Sidelight





EXHIBIT 3

DOOR #1 VESTIBULE TRANSOMS



EXHIBIT #4  
FIXED WINDOW