

# McCall SHARP

## ARCHITECTURE

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April 25, 2024

### **ADDENDUM NUMBER 2**

TO THE PLANS AND SPECIFICATIONS FOR:

McKinley Hall Heart House Renovation  
1911 East High Street, Springfield, Ohio 45505

This Addendum must be receipted for on the Bid Form.

**1. TO ALL BIDDERS:**

This Addendum supplements and amends the original Drawings and Specifications and shall be taken into account in preparing proposals and shall become a part of the Contract Documents.

**2. INTENT AND SCOPE**

This Addendum, issued before the receipt of the proposals, is intended to provide additional information, answer questions raised by prospective bidders and to clarify or revise the requirements of the Contract Documents.

**3. SPECIFICATIONS CHANGES AND/OR ADDITIONS:**

- 00 0001 Table of Contents has been updated showing the addition and removal of spec sections.
- Request for Bids, Item 7.8 Insurance
  - Paragraph added stating that the contractor shall provide building risk insurance with minimum coverage in amount equal to the contract amount.
- 08 1416 Flush Wood doors
  - Delete section 2.01, paragraph C HPDL faced doors.
  - Revise section 2.04, paragraph A, White Oak instead of Red Oak.
- 08 8000 Glazing has been added to the project manual
  
- 12 3530 Residential Casework shall be removed from the project manual.
  - Section 06 4100 shall take the place of this spec section.
- 12 3600 Countertops
  - Delete paragraph C, Solid Surface.

**4. DRAWINGS CHANGES AND/OR ADDITIONS:**

- Sheet G1.0 Cover Sheet
  - a. Sheet Index has been updated.

- Sheet A0.1 Site Plan
  - a. Note added to remove tree where new ramp will be built.
  - b. Note added to provide gravel apron at exterior wall where mulch is not present.
- Sheet D1.1 First Floor Demolition Plan
  - a. Notes describing window removal have been added.
  - b. Clarification has been added regarding the salvaged lockers.
  - c. Mechanical Equipment from 2020 or later to remain.
- Sheet D1.2 Basement Demolition Plan
  - a. Notes have been added for removal of existing MEP equipment.
  - b. Mechanical Equipment from 2020 or later to remain.
- Sheet D2.1 Demolition Plan, Ceiling
  - a. Sheet has been added to the drawing set.
- Sheet S2 Truss Framing
  - a. Headers for new windows are called out.
- Sheet A1.1 First Floor Plan
  - a. Windows are labeled by type. New windows are dimensioned.
- Sheet A1.2 First Floor Clinic and A1.3 Floor Plan Dwelling Unit 1
  - a. Wall Type Legend has the following additional information.
    - i. Heights of wall type.
    - ii. Metal studs may be used in lieu of wood studs.
  - b. Windows are labeled by type. New windows are dimensioned.
- Sheet A1.4 Floor Plan Dwelling Unit 2
  - a. Wall Type Legend has the following additional information.
    - i. Heights of wall type.
    - ii. Metal studs may be used in lieu of wood studs.
  - b. Windows are labeled by type. New windows are dimensioned.
  - c. Chase for fire department connection has been added to the drawing.
- Sheet A3.1 Exterior Elevation
  - a. Downspouts and scuppers are now shown for both clerestories.
- Sheets A4.1 through A4.5
  - a. Note has been added stating: Fire Suppression Contractor to provide dry sprinkler system in unconditioned attic spaces, typical.
- Sheet A6.1
  - a. Callout 9/A6.1 has been removed from Elevation 5.
- Sheet A7.1 Room Finish Schedule
  - a. The Room Finish plan has been revised to show LVT-1 at the Tech Station.
- Sheet A7.2 Door Schedule
  - a. Notes describing abbreviations for door materials and finishes have been added.
- Sheet A7.3 Window Schedule
  - a. Note added that "All windows shall be fixed windows.
  - b. Description of window types A2 and D now includes header description.
- Sheet FP1.0
  - a. Fire Department Connection has been added to the drawing.
- Sheet FP1.1
  - a. Fire Protection Riser has been revised to show fire line coming in from above.
  - b. Dry Sprinkler System is called for in the crawlspace.

## 5. QUESTIONS FROM BIDDERS

- 5.1 Glazing specification section, 08 80 00, is missing, but is referenced in multiple spec sections. Please provide this spec section.
- a. Spec Section 08 8000 Glazing has been added to the specification.
- 5.2 The spec calls for a type 1 hood with 16 gauge welded steel duct. A type 1 hood would not require welded duct, can a standard galvanized duct be used instead of the welded duct?
- a. Per the Installation manual for the hood, Duct should be constructed of sheet metal (26 gauge minimum) that is galvanized steel, stainless steel, aluminum, or copper. Ducts must have a smooth inner wall and must be airtight. Keep transitions and turns in ductwork minimal to prevent system effect.
- 5.3 The specifications call for round duct to be internally insulated. Can we externally wrap the round ductwork?
- a. Yes, round ductwork can be externally insulated.
- 5.4 Can you provide demo plans for HVAC, Plumbing, and Electrical?
- a. HVAC: All existing HVAC items are to be demo'ed. (Unit's, ductwork, air devices, etc.)
  - b. Plumbing:
    - i. Existing water heater and all associated piping and components to be abandoned.
    - ii. All domestic water piping, sanitary, vent, piping associated with existing toilet rooms, living areas, etc. to be demolished to be abandoned. Refer to architectural drawings for these areas.
    - iii. Storm piping and area drains from interior atriums to be abandoned, were called out on plumbing drawings.
    - iv. Existing domestic cold, hot and hot water return mains located above first floor ceiling to remain. Refer to plumbing drawings. Plumbing Contractor to field verify condition of existing prior to starting any new work.
  - c. Electrical
    - i. All existing electrical items are to demo'ed. (Electrical service, panels, lighting, etc.).
- 5.5 Do you know what, if any, signage will be required? It looks like exterior signage is remaining. There's no spec or details for ADA or anything else that I see though. Can you clarify?
- a. Spec Section 10 1423 Panel Signage has been added to the project manual.
- 5.6 Wood door specs calls out for HPDL (high pressure decorative laminate) and red oak veneered doors for field finish. Please identify which doors are HPDL and which doors are wood veneered. On door schedule under finish list FF, does this stand for field finish so all doors are to be red oak veneered?
- a. Provide factory finish white oak interior doors. Refer Revised Spec Section 08 1416 Flush Wood Doors.
- 5.7 Clarify Requirements around AWI Certification. Pertains to Casework? Countertops? Both? AWI Inspection acceptable substitution?
- a. Millwork is to be built to custom grade AWI standards. No inspection by AWI required.
- 5.8 Clarify Intent for all Casework – work to be CUSTOM Fabricated by Millwork Contractor? Or, Millwork Contractor to FURNISH Kraftmaid Cabinetry products to meet design requirements? Kraftmaid to be Basis of Design or to be Intended Manufacturer/Product?

- a. Casework is to be custom fabricated by Millwork Contractor. Refer to Spec Section 06 4100 Architectural Casework. This shall take the place of Spec Section 12 3530 Residential Casework, which shall be removed from the project manual.
- 5.9 What Finishes to be used for Millwork?
- a. Plastic Laminate Countertops
  - b. White Oak with Plastic Laminate Finish.
- 5.10 Note 6 on D1.1 only shows only some ceilings being removed. Many rooms have walls removed but do not note anything about ceiling demo. Please confirm ceiling demo information as represented is accurate and note demarcation lines where note 6 is used in the same rooms that are noted that sloped drywall ceilings are to remain.
- a. Most of the existing ceilings are to be removed. D2.1 (ceiling demo plan) has been added to the drawings.
- 5.11 Note 1 on D1.1 shows existing flooring to remain in restrooms. There is no other note to demo any flooring. Confirm that no additional flooring demo is needed.
- a. Remove all existing finish floor U.N.O. per general notes on D1.1.
- 5.12 Define what Note S3 on D1.1 means by word salvage – are these being re-installed?
- a. These lockers shall be turned over to the owner. Note on D1.1 has been revised.
- 5.13 Does the note to remove windows and rearrange based on locations of interior walls apply to all windows along the north wall or just one?
- a. No, just the windows labeled A2 or D. New headers are now called out on sheet S2
- 5.14 On D1.2 no ceilings are noted to be removed during demo, nor are any floors noted to be removed. Please confirm.
- a. Most of the existing ceilings are to be removed. D2.1 (ceiling demo plan) has been added to the drawings.
- 5.15 A4.6 shows both 1 ½” round handrail as well as 1 ½” wood noted in detail 3. Confirm is wall mounted railing is wood or metal and that railing mounted on new stair balusters are wood.
- a. Both railings are wood, per detail 3.
- 5.16 A3.1 shows what looks to be a collection box at one of the two new crickets on the clearstory. Should there be two and where do they outlet to?
- a. Yes. In both cases, the gutter outlets to the gutter on the North side of the building.
- 5.17 Are any of the new aluminum clad wood windows to be operable?
- a. No
- 5.18 Sheet A7.3 indicates that all aluminum clad wood windows are replacing existing openings. D1.1 does not indicate all windows being removed. Please clarify if existing windows not shown to be removed are being replaced.
- a. All windows are to be removed unless specifically noted otherwise.
  - b. Clarifications have been added to D1.1.
- 5.19 Clarify what “FF” and “PT” finishes are on door schedule. If PT refers to paint, what color/sheen?
- a. FF is Factory Finish and PT is Painted.
  - b. Color/Sheen for paint to be determined during construction.
- 5.20 Can solid wood Wolf cabinets be used as an approved equal to Kraftmaid?

- a. No. Casework is to be custom fabricated by Millwork Contractor. Refer to Spec Section 06 4100 Architectural Casework. This shall take the place of Spec Section 12 3530 Residential Casework, which shall be removed from the project manual.
- 5.21 Elevation 5 on A6.1 shows section 9 on A6.1 but section 9 on A6.1 is for waiting room instead of work room. Please clarify and provide correct section.
  - a. Section 9 on A6.1 should not show up Elevation 5.
- 5.22 Detail 6 on A6.3 shows that only lavatory counters are cold formed laminate tops. Please confirm all other tops are not cold formed laminate.
  - a. Cold Formed laminate typical for all plastic laminate.
- 5.23 Confirm that all appliances are owner furnished and owner installed.
  - a. Correct
- 5.24 Per the spec section 221005 Plumbing Piping: 2.06 DOMESTIC WATER PIPING, ABOVE GRADE A. Copper Pipe: ASTM B88 (ASTM B88M), Type K (A), Drawn (H). 1. Mechanical Press Sealed Fittings: Double-pressed type, NSF 61 and NSF 372 approved or certified, utilizing EPDM, nontoxic, synthetic rubber sealing elements. Would Type L copper be acceptable?
  - a. Type L Copper is acceptable for domestic water piping.
- 5.25 At the Prebid walk through. Notice there was a lot of mold in the basement and around the windows on the first floor. Is there a plan for mold remediation? Has there been testing on the mold?
  - a. Refer the Phase 1 Environmental Site Assessment included in Addendum 1.
  - b. GC to deal with microbial contamination if they feel it is a problem.
- 5.26 Existing downspout doesn't appear to have adequate drainage away from the building and is leaking into the basement of the building. What is the architects plan to remedy this issue?
  - a. Per A3.1, The downspouts are to either tie into the existing drain system, or to be provided with concrete splash blocks.
- 5.27 Currently, the plans have EPDM membrane underneath the parapet wall coping as well as an EPDM cricket against the shingle roof. It is not typical to have EPDM against asphalt shingles as the shingles will accelerate deterioration of the EPDM membrane. Also, for waterproofing under a parapet, we usually use ice and water shield (we can use a rubberized ice and water shield) and not EPDM in these areas?
  - a. Ice and Water shield is acceptable for waterproofing under the parapet.
- 5.28 The New 6" Fire Line appears to be oversized for the size of the building. Is 6" really necessary?
  - a. See attached flow test for the nearest fire hydrant. If the Sprinkler Contractor can design a full suppression system with a 4" line that does not require a fire pump, that would be acceptable.

**6. OTHER INFORMATION**

**END OF ADDENDUM**

# PROJECT MANUAL

FOR

## McKinley Hall Heart House Renovation

1911 East High Street  
Springfield, Ohio 45505

FOR

## McKinley Hall, Inc.

2624 Lexington Avenue  
Springfield, Ohio 45505

April 4, 2024

PREPARED BY:

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**McKinley Hall Heart House Renovation Design Team**

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**McKinley Hall**  
**Heart House Renovation**  
 1911 East High Street  
 Springfield, Ohio

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Incidental site work for installation of Sprinkler System components required under sprinkler requirements. All work shall be accordance with State and local Codes and City Engineer and Water Utility regulations and requirements. Exterior conditions shall be restored to pre-construction state, regarding site improvements and grass areas graded to pre work grades and reseeded. Any and all excess material and debris removed and properly disposed of offsite.

END OF TABLE OF CONTENTS

**SECTION 06 4100  
ARCHITECTURAL WOOD CASEWORK**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Specially fabricated cabinet units.
- B. Cabinet Hardware.
- C. Preparation for installing utilities.

**1.02 RELATED REQUIREMENTS**

- A. Section 06 1000 - Rough Carpentry: Support framing, grounds, and concealed blocking.
- B. Section 08 8000 - Glazing: Glass for casework.
- C. Section 12 3600 - Countertops.

**1.03 REFERENCE STANDARDS**

- A. AWI (QCP) - Quality Certification Program; Current Edition.
- B. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition; 2014, with Errata (2016).
- C. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards; 2021, with Errata.
- D. BHMA A156.9 - Cabinet Hardware; 2020.
- E. HPVA HP-1 - American National Standard for Hardwood and Decorative Plywood; 2020.
- F. NEMA LD 3 - High-Pressure Decorative Laminates; 2005.

**1.04 ADMINISTRATIVE REQUIREMENTS**

- A. Preinstallation Meeting: Convene a preinstallation meeting not less than one week before starting work of this section; require attendance by all affected installers.

**1.05 SUBMITTALS**

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
  - 1. Scale of Drawings: 1-1/2 inch to 1 foot, minimum.
  - 2. Provide information as required by AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS).
  - 3. Include certification program label.
- C. Product Data: Provide data for hardware accessories.
- D. Samples: Submit actual samples of architectural cabinet construction, minimum 12 inches square, illustrating proposed cabinet, countertop, and shelf unit substrate and finish.
- E. Samples: Submit actual sample items of proposed pulls, hinges, shelf standards, and locksets, demonstrating hardware design, quality, and finish.

**1.06 QUALITY ASSURANCE**

- A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
  - 1. Accredited participant in the specified certification program prior to the commencement of fabrication and throughout the duration of the project.
- B. Quality Certification:
  - 1. Comply with AWI (QCP) woodworking association quality certification service/program in accordance with requirements for work specified in this section: [www.awiqcp.org/#sle](http://www.awiqcp.org/#sle).
  - 2. Provide labels or certificates indicating that the installed work complies with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade or grades specified.
  - 3. Provide designated labels on shop drawings as required by certification program.

4. Provide designated labels on installed products as required by certification program.
5. Submit certifications upon completion of installation that verifies this work is in compliance with specified requirements.
6. Replace, repair, or rework all work for which certification is refused.

#### **1.07 MOCK-UPS**

- A. Provide mock-up of typical base cabinet, wall cabinet, and countertop, including hardware, finishes, and plumbing accessories.
- B. See Section 01 4000 - Quality Requirements for additional requirements.
- C. Mock-up may remain as part of the work.

#### **1.08 DELIVERY, STORAGE, AND HANDLING**

- A. Protect units from moisture damage.

#### **1.09 FIELD CONDITIONS**

- A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

### **PART 2 PRODUCTS**

#### **2.01 MANUFACTURERS**

- A. Single Source Responsibility: Provide and install this work from single fabricator.

#### **2.02 CABINETS**

- A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.
- B. Plastic Laminate Faced Cabinets: Custom grade.
- C. Cabinets:
  1. Finish - Exposed Exterior Surfaces: Decorative laminate.
  2. Finish - Exposed Interior Surfaces: Decorative laminate.
  3. Finish - Semi-Exposed Surfaces: Decorative laminate
  4. Door and Drawer Front Edge Profiles: Square edge with thin applied band.
  5. Door and Drawer Front Retention Profiles: Fixed panel.
  6. Casework Construction Type: Type A - Frameless.
  7. Interface Style for Cabinet and Door: Style 2 - Finish Inset; reveal overlay.
  8. Grained Face Layout for Cabinet and Door Fronts: Style and Rail, all Grades.
    - a. Drawer fronts run grain either vertically or horizontally at the manufacturer's option.
    - b. Doors: Vertical grain.
  9. Cabinet Design Series: As indicated on drawings.
  10. Adjustable Shelf Loading: 50 psf.
  11. Cabinet Style: Flush overlay.
  12. Cabinet Doors and Drawer Fronts: Flush style.
  13. Drawer Side Construction: Multiple-dovetailed.
  14. Drawer Construction Technique: Dovetail joints.

#### **2.03 WOOD-BASED COMPONENTS**

- A. Wood fabricated from old growth timber is not permitted.
- B. Provide sustainably harvested wood, certified or labeled; see Section 01 6000.
- C. Provide wood harvested within a 500 mile radius of the project site.
- D. Hardwood Edgebanding: Use solid hardwood edgebanding matching species, color, grain, and grade for exposed portions of cabinetry.

#### **2.04 HARDWOOD PLYWOOD PANELS**

- A. Hardwood Plywood: Plywood manufactured for nonstructural decorative applications; consisting of faces and backs applied to a variety of core types; comply with HPVA HP-1.
  1. Woodwork Quality Standard: Panels complying with specified woodwork quality standard.

2. Face: White oak; plain-sliced; grade AA.
  - a. Finish: Natural, unfinished.

## **2.05 LAMINATE MATERIALS**

- A. Manufacturers:
  1. Formica Corporation: [www.formica.com/#sle](http://www.formica.com/#sle).
  2. Panolam Industries International, Inc: [www.panolam.com/#sle](http://www.panolam.com/#sle).
  3. Wilsonart LLC: [www.wilsonart.com/#sle](http://www.wilsonart.com/#sle).
  4. Substitutions: See Section 01 6000 - Product Requirements.

## **2.06 COUNTERTOPS**

- A. Countertops: See Section 12 3600.

## **2.07 ACCESSORIES**

- A. Adhesive: Type recommended by fabricator to suit application.
  1. Manufacturers:
    - a. Franklin International, Inc; Titebond Original Wood Glue: [www.titebond.com/#sle](http://www.titebond.com/#sle).
- B. Fasteners: Size and type to suit application.
- C. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel or chrome-plated finish in exposed locations.
- D. Concealed Joint Fasteners: Threaded steel.
- E. Grommets: Standard plastic, painted metal, or rubber grommets for cut-outs, in color to match adjacent surface.

## **2.08 HARDWARE**

- A. Hardware: BHMA A156.9, types as recommended by fabricator for quality grade specified.
- B. Adjustable Shelf Supports: Standard side-mounted system using recessed metal shelf standards or multiple holes for pin supports and coordinated self rests, polished chrome finish, for nominal 1 inch spacing adjustments.
- C. Adjustable Shelf Supports: Standard back-mounted system using surface mounted metal shelf standards and coordinated cantilevered shelf brackets, satin chrome finish, for nominal 1 inch spacing adjustments.
- D. Countertop Support Brackets: Fixed, L-shaped, face-of-wall mounting.
  1. Products:
    - a. A&M Hardware, Inc; Hybrid Brackets: [www.aandmhardware.com/#sle](http://www.aandmhardware.com/#sle).
    - b. A&M Hardware, Inc; Heavy-Duty Hybrid Brackets: [www.aandmhardware.com/#sle](http://www.aandmhardware.com/#sle).
- E. Drawer and Door Pulls: "U" shaped wire pull, steel with chrome finish, 4 inch centers.
- F. Sliding Door Pulls: Circular shape for recessed installation, steel with satin finish.
- G. Keyed Cabinet Locks: Keyed cylinder, two keys per lock, master keyed, steel with chrome finish.
- H. Cabinet Catches and Latches:
  1. Type: Magnetic catch.
- I. Drawer Slides:
  1. Type: Extension types as indicated.
  2. Static Load Capacity: Commercial grade.
  3. Mounting: Side mounted.
  4. Stops: Integral type.
  5. Features: Provide self closing/stay closed type.
  6. Manufacturers:
    - a. Accuride International, Inc: [www accuride.com/#sle](http://www accuride.com/#sle).
    - b. Grass America Inc: [www.grassusa.com/#sle](http://www.grassusa.com/#sle).

- c. Hettich America, LP: [www.hettich.com/#sle](http://www.hettich.com/#sle).
  - d. Knappe & Vogt Manufacturing Company: [www.knappeandvogt.com/#sle](http://www.knappeandvogt.com/#sle).
- J. Hinges: European style concealed self-closing type, steel with satin finish.
- 1. Manufacturers:
    - a. Blum, Inc: [www.blum.com/#sle](http://www.blum.com/#sle).
    - b. Grass America Inc: [www.grassusa.com/#sle](http://www.grassusa.com/#sle).
    - c. Hardware Resources: [www.hardwareresources.com/#sle](http://www.hardwareresources.com/#sle).
    - d. Hettich America, LP: [www.hettich.com/#sle](http://www.hettich.com/#sle).
- K. Sliding Door Track Assemblies: Upper and lower track of satin anodized aluminum, with matching shoe equipped with nylon rollers.

## **2.09 FABRICATION**

- A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
- B. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.
- C. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.
- D. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs.
  - 1. Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.
  - 2. Cap exposed plastic laminate finish edges with material of same finish and pattern.
- E. Matching Wood Grain: Comply with requirements of quality standard for specified Grade and as follows:
  - 1. Provide center matched panels at each elevation.
  - 2. Provide sequence matching across each elevation.
  - 3. Carry figure of cabinet fronts to toe kicks.
- F. Mechanically fasten back splash to countertops as recommended by laminate manufacturer at 16 inches on center.
- G. Provide cutouts for plumbing fixtures. Verify locations of cutouts from on-site dimensions. Prime paint cut edges.
- H. Shop glaze glass materials using Interior Dry method; see Section 08 8000.

## **2.10 SHOP FINISHING**

- A. Sand work smooth and set exposed nails and screws.
- B. For opaque finishes, apply wood filler in exposed nail and screw indentations and sand smooth.
- C. On items to receive transparent finishes, use wood filler matching or blending with surrounding surfaces and of types recommended for applied finishes.
- D. Finish work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 5 - Finishing for grade specified and as follows:
  - 1. Transparent:
    - a. Stain: As selected by Architect.
    - b. Sheen: Satin.
  - 2. Opaque:
    - a. Color: As selected by Architect.
    - b. Sheen: Flat.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify adequacy of backing and support framing.
- B. Verify location and sizes of utility rough-in associated with work of this section.

### **3.02 INSTALLATION**

- A. Install work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.
- B. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
- C. Use fixture attachments in concealed locations for wall mounted components.
- D. Use concealed joint fasteners to align and secure adjoining cabinet units.
- E. Secure cabinets to floor using appropriate angles and anchorages.
- F. Countersink anchorage devices at exposed locations. Conceal with solid wood plugs of species to match surrounding wood; finish flush with surrounding surfaces.

### **3.03 ADJUSTING**

- A. Adjust moving or operating parts to function smoothly and correctly.

### **3.04 CLEANING**

- A. Clean casework, counters, shelves, hardware, fittings, and fixtures.

**END OF SECTION**

**SECTION 08 8000  
GLAZING**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Insulating glass units.
- B. Glazing units.
- C. Glazing compounds.

**1.02 RELATED REQUIREMENTS**

- A. Section 07 2500 - Weather Barriers.
- B. Section 07 9200 - Joint Sealants: Sealants for other than glazing purposes.
- C. Section 08 4313 - Aluminum-Framed Storefronts: Glazing provided as part of storefront assembly.
- D. Section 08 5200 - Wood Windows: Glazing provided by window manufacturer.

**1.03 REFERENCE STANDARDS**

- 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; 2015 (Reaffirmed 2020).
- C. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.
- D. ASTM C864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers; 2005 (Reapproved 2019).
- E. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018.
- F. ASTM C1036 - Standard Specification for Flat Glass; 2021.
- G. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2018.
- H. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2016 (Reapproved 2023).
- I. ASTM C1376 - Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Flat Glass; 2021a.
- J. ASTM E1300 - Standard Practice for Determining Load Resistance of Glass in Buildings; 2016.
- K. ASTM E2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation; 2019.
- L. GANA (SM) - GANA Sealant Manual; 2008.
- M. NFRC 100 - Procedure for Determining Fenestration Product U-factors; 2023.
- N. NFRC 200 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence; 2023.
- O. NFRC 300 - Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems; 2023.

**1.04 ADMINISTRATIVE REQUIREMENTS**

- A. Preinstallation Meeting: Convene a preinstallation meeting one week before starting work of this section; require attendance by each of the affected installers.

**1.05 SUBMITTALS**

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data on Insulating Glass Unit and Glazing Unit Glazing Types: Provide structural, physical and environmental characteristics, size limitations, special handling and installation requirements.



- C. Product Data on Glazing Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements, and identify available colors.
- D. Samples: Submit two samples 12 by 12 inch in size of glass units.
- E. Certificate: Certify that products of this section meet or exceed specified requirements.
- F. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
- G. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
  - 1. See Section 01 6000 - Product Requirements, for additional provisions.
  - 2. Extra Insulating Glass Units: One of each glass size and each glass type.

#### **1.06 QUALITY ASSURANCE**

- A. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years documented experience.

#### **1.07 FIELD CONDITIONS**

- A. Do not install glazing when ambient temperature is less than 40 degrees F.
- B. Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.

#### **1.08 WARRANTY**

- A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.
- B. Insulating Glass Units: Provide a five (5) year manufacturer warranty to include coverage for seal failure, interpane dusting or misting, including providing products to replace failed units.

### **PART 2 PRODUCTS**

#### **2.01 MANUFACTURERS**

- A. Float Glass Manufacturers:
  - 1. Cardinal Glass Industries: [www.cardinalcorp.com/#sle](http://www.cardinalcorp.com/#sle).
  - 2. Guardian Glass, LLC; Basis of Design: [www.guardianglass.com/#sle](http://www.guardianglass.com/#sle).
  - 3. Pilkington North America Inc: [www.pilkington.com/na/#sle](http://www.pilkington.com/na/#sle).
  - 4. Saint Gobain North America: [www.saint-gobain.com/#sle](http://www.saint-gobain.com/#sle).
  - 5. Vitro Architectural Glass (formerly PPG Glass): [www.vitroglazings.com/#sle](http://www.vitroglazings.com/#sle).
  - 6. Substitutions: See Section 01 6000 - Product Requirements.

#### **2.02 PERFORMANCE REQUIREMENTS - EXTERIOR GLAZING ASSEMBLIES**

- A. Provide type and thickness of exterior glazing assemblies to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of glass.
  - 1. Design Pressure: Calculated in accordance with ASCE 7.
  - 2. Comply with ASTM E1300 for design load resistance of glass type, thickness, dimensions, and maximum lateral deflection of supported glass.
  - 3. Provide glass edge support system sufficiently stiff to limit the lateral deflection of supported glass edges to less than 1/175 of their lengths under specified design load.
  - 4. Glass thicknesses listed are minimum.
- B. Weather-Resistive Barrier Seals: Provide completed assemblies that maintain continuity of building enclosure water-resistive barrier, vapor retarder, and/or air barrier.
  - 1. In conjunction with weather barrier related materials described in other sections, as follows:
  - 2. To utilize inner pane of multiple pane insulating glass units for continuity of vapor retarder and/or air barrier seal.
  - 3. To maintain a continuous vapor retarder and/or air barrier throughout glazed assembly from glass pane to heel bead of glazing sealant.

- C. Thermal and Optical Performance: Provide exterior glazing products with performance properties as indicated. Performance properties are in accordance with manufacturer's published data as determined with the following procedures and/or test methods:
1. Center of Glass U-Value: Comply with NFRC 100 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
  2. Center of Glass Solar Heat Gain Coefficient (SHGC): Comply with NFRC 200 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
  3. Solar Optical Properties: Comply with NFRC 300 test method.

### 2.03 GLASS MATERIALS

- A. Float Glass: Provide float glass based glazing unless otherwise indicated.
1. Annealed Type: ASTM C1036, Type I - Transparent Flat, Class 1 - Clear, Quality - Q3.
  2. Kind HS - Heat-Strengthened Type: Complies with ASTM C1048.
  3. Kind FT - Fully Tempered Type: Complies with ASTM C1048.
  4. Fully Tempered Safety Glass: Complies with ANSI Z97.1 or 16 CFR 1201 criteria for safety glazing used in hazardous locations.
  5. Tinted Type: ASTM C1036, Class 2 - Tinted, Quality - Q3, with color and performance characteristics as indicated.
  6. Thicknesses: As indicated; provide greater thickness as required for exterior glazing wind load design.

### 2.04 INSULATING GLASS UNITS

- A. Manufacturers:
1. Cardinal Glass Industries: [www.cardinalcorp.com/#sle](http://www.cardinalcorp.com/#sle).
  2. Guardian Glass, LLC: [www.guardianglass.com/#sle](http://www.guardianglass.com/#sle).
  3. Pilkington North America Inc: [www.pilkington.com/na/#sle](http://www.pilkington.com/na/#sle). Pilkington North America Inc: [www.pilkington.com/na/#sle](http://www.pilkington.com/na/#sle).
  4. Viracon, Apogee Enterprises, Inc: [www.viracon.com/#sle](http://www.viracon.com/#sle).
  5. Vitro Architectural Glass (formerly PPG Glass): [www.vitroglazings.com/#sle](http://www.vitroglazings.com/#sle).
  6. Substitutions: See Section 01 6000 - Product Requirements.
- B. Fabricator: Certified by glass manufacturer for type of glass, coating, and treatment involved and capable of providing specified warranty.
- C. Insulating Glass Units: Types as indicated.
1. Durability: Certified by an independent testing agency to comply with ASTM E2190.
  2. Coated Glass: Comply with requirements of ASTM C1376 for pyrolytic (hard-coat) or magnetic sputter vapor deposition (soft-coat) type coatings on flat glass; coated vision glass, Kind CV; coated overhead glass, Kind CO; or coated spandrel glass, Kind CS.
  3. Warm-Edge Spacers: Polypropylene warm-edge technology design.
    - a. Spacer Width: As required for specified insulating glass unit.
    - b. Spacer Height: Manufacturer's standard.
    - c. Products:
      - 1) Technoform Glass Insulation; TGI-Spacer: [www.glassinsulation.us/#sle](http://www.glassinsulation.us/#sle).
      - 2) Substitutions: See Section 01 6000 - Product Requirements.
  4. Spacer Color: Black.
  5. Edge Seal:
    - a. Dual-Sealed System: Provide polyisobutylene sealant as primary seal applied between spacer and glass panes, and silicone, polysulfide, or polyurethane sealant as secondary seal applied around perimeter.
    - b. Color: Black.
  6. Purge interpane space with dry air, hermetically sealed.
- D. Type IG-1 - Insulating Glass Units: Vision glass, double glazed.
1. Applications: Exterior glazing unless otherwise indicated.
  2. Space between lites filled with air.
  3. Outboard Lite: Annealed float glass, 1/4 inch thick, minimum.

- a. Tint: Clear with Guardian SunGuard SNE 50/25 54 on #2 surface.
    - b. Coating: Low-E (passive type), on #2 surface.
  - 4. Inboard Lite: Annealed float glass, 1/4 inch thick, minimum.
    - a. Tint: Clear.
  - 5. Total Thickness: 1 inch.
  - 6. Thermal Transmittance (U-Value), Summer - Center of Glass: \_\_\_\_\_, nominal.
  - 7. Visible Light Transmittance (VLT): 48 percent, nominal.
  - 8. Solar Heat Gain Coefficient (SHGC): \_\_\_\_\_, nominal.
  - 9. Glazing Method: Dry glazing method, gasket glazing.
- E. Type IG-2 - Insulating Glass Units: Safety glazing.
- 1. Applications:
    - a. Glazed lites in exterior doors.
    - b. Glazed sidelights and panels next to doors.
    - c. Other locations required by applicable federal, state, and local codes and regulations.
  - 2. Space between lites filled with argon.
  - 3. Glass Type: Same as Type IG-1 except use fully tempered float glass for both outboard and inboard lites.
  - 4. Tint: Clear.
  - 5. Total Thickness: 1 inch.
  - 6. Thermal Transmittance (U-Value), Summer - Center of Glass: \_\_\_\_\_, nominal.

## 2.05 GLAZING UNITS

- A. Monolithic Interior Vision Glazing:
  - 1. Applications: Interior glazing unless otherwise indicated.
  - 2. Glass Type: Fully tempered float glass.
  - 3. Tint: Clear.
  - 4. Thickness: 1/4 inch, nominal.
  - 5. Glazing Method: Dry glazing method, gasket glazing.
- B. Monolithic Safety Glazing: Non-fire-rated.
  - 1. Applications:
    - a. Glazed lites in doors, except fire doors.
    - b. Glazed sidelights to doors, except in fire-rated walls and partitions.
    - c. Other locations required by applicable federal, state, and local codes and regulations.
    - d. Other locations indicated on drawings.
  - 2. Glass Type: Fully tempered safety glass as specified.
  - 3. Tint: Clear.
  - 4. Thickness: 1/4 inch, nominal.
  - 5. Glazing Method: Dry glazing method, gasket glazing.

## 2.06 GLAZING COMPOUNDS

- A. Type GC-2 - Butyl Sealant: Single component; ASTM C920 Grade NS, Class 12-1/2, Uses M and A, Shore A hardness of 10 to 20; black color.
- B. Type GC-5 - Silicone Sealant: Single component; neutral curing; capable of water immersion without loss of properties; nonbleeding, nonstaining; ASTM C920 Type S, Grade NS, Class 25, Uses M, A, and G; with cured Shore A hardness range of 15 to 25; color as selected.
- C. Manufacturers:
  - 1. Bostik Inc: [www.bostik-us.com/#sle](http://www.bostik-us.com/#sle).
  - 2. Dow Corning Corporation: [www.dowcorning.com/construction/#sle](http://www.dowcorning.com/construction/#sle). Dow Corning Corporation: [www.dowcorning.com/construction/#sle](http://www.dowcorning.com/construction/#sle).
  - 3. Momentive Performance Materials, Inc: [www.momentive.com/#sle](http://www.momentive.com/#sle).
  - 4. Pecora Corporation: [www.pecora.com/#sle](http://www.pecora.com/#sle).
  - 5. Tremco Commercial Sealants & Waterproofing; Proglaze: [www.tremcosealants.com/#sle](http://www.tremcosealants.com/#sle).
  - 6. Substitutions: See Section 01 6000 - Product Requirements.

## **2.07 ACCESSORIES**

- A. Setting Blocks: Silicone, with 80 to 90 Shore A durometer hardness; ASTM C864 Option II. Length of 0.1 inch for each square foot of glazing or minimum 4 inch by width of glazing rabbet space minus 1/16 inch by height to suit glazing method and pane weight and area.
- B. Spacer Shims: Neoprene, 50 to 60 Shore A durometer hardness; ASTM C864 Option II. Minimum 3 inch long by one half the height of the glazing stop by thickness to suit application, self adhesive on one face.
- C. Glazing Tape, Back Bedding Mastic Type: Preformed, butyl-based, 100 percent solids compound with integral resilient spacer rod applicable to application indicated; 5 to 30 cured Shore A durometer hardness; coiled on release paper; black color.
  - 1. Width: As required for application.
  - 2. Thickness: As required for application.
  - 3. Spacer Rod Diameter: As required for application.
  - 4. Manufacturers:
    - a. Pecora Corporation: [www.pecora.com/#sle](http://www.pecora.com/#sle).
    - b. Tremco Global Sealants: [www.tremcosealants.com/#sle](http://www.tremcosealants.com/#sle).
    - c. Substitutions: See Section 01 6000 - Product Requirements.
- D. Glazing Splines: Resilient silicone extruded shape to suit glazing channel retaining slot; ASTM C864 Option II; color black.
- E. Glazing Clips: Manufacturer's standard type.

## **2.08 SOURCE QUALITY CONTROL**

- A. See Section 01 4000 - Quality Requirements for additional requirements.

## **PART 3 EXECUTION**

### **3.01 VERIFICATION OF CONDITIONS**

- A. Verify that openings for glazing are correctly sized and within tolerances, including those for size, squareness, and offsets at corners.
- B. Verify that the minimum required face and edge clearances are being provided.
- C. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and support framing is ready to receive glazing system.
- D. Verify that sealing between joints of glass framing members has been completed effectively.
- E. Proceed with glazing system installation only after unsatisfactory conditions have been corrected.

### **3.02 PREPARATION**

- A. Clean contact surfaces with appropriate solvent and wipe dry within maximum of 24 hours before glazing. Remove coatings that are not tightly bonded to substrates.
- B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.
- C. Prime surfaces scheduled to receive sealant where required for proper sealant adhesion.

### **3.03 INSTALLATION, GENERAL**

- A. Install glazing in compliance with written instructions of glass, gaskets, and other glazing material manufacturers, unless more stringent requirements are indicated, including those in glazing referenced standards.
- B. Install glazing sealants in accordance with ASTM C1193, GANA (SM), and manufacturer's instructions.
- C. Do not exceed edge pressures around perimeter of glass lites as stipulated by glass manufacturer.
- D. Set glass lites of system with uniform pattern, draw, bow, and similar characteristics.

- E. Set glass lites in proper orientation so that coatings face exterior or interior as indicated.
- F. Prevent glass from contact with any contaminating substances that may be the result of construction operations such as, and not limited to the following; weld splatter, fire-safing, plastering, mortar droppings, and paint.

### **3.04 INSTALLATION - DRY GLAZING METHOD (GASKET GLAZING)**

- A. Application - Exterior and/or Interior Glazed: Set glazing infills from either the exterior or the interior of the building.
- B. Place setting blocks at 1/4 points with edge block no more than 6 inch from corners.
- C. Rest glazing on setting blocks and push against fixed stop with sufficient pressure on gasket to attain full contact.
- D. Install removable stops without displacing glazing gasket; exert pressure for full continuous contact.

### **3.05 FIELD QUALITY CONTROL**

- A. See Section 01 4000 - Quality Requirements for additional requirements.
- B. Glass and Glazing product manufacturers to provide field surveillance of the installation of their products.
- C. Monitor and report installation procedures and unacceptable conditions.

### **3.06 CLEANING**

- A. See Section 01 7419 - Construction Waste Management and Disposal, for additional requirements.
- B. Remove excess glazing materials from finish surfaces immediately after application using solvents or cleaners recommended by manufacturers.
- C. Remove nonpermanent labels immediately after glazing installation is complete.
- D. Clean glass and adjacent surfaces after sealants are fully cured.
- E. Clean glass on both exposed surfaces not more than 4 days prior to Date of Substantial Completion in accordance with glass manufacturer's written recommendations.

### **3.07 PROTECTION**

- A. After installation, mark pane with an 'X' by using removable plastic tape or paste; do not mark heat absorbing or reflective glass units.
- B. Remove and replace glass that is damaged during construction period prior to Date of Substantial Completion.

**END OF SECTION**

**SECTION 10 1423  
PANEL SIGNAGE**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Panel signage.

**1.02 REFERENCE STANDARDS**

- A. ADA Standards - 2010 ADA Standards for Accessible Design; 2010.
- B. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.

**1.03 SUBMITTALS**

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Manufacturer's product literature for each type of panel sign, indicating styles, font, foreground and background colors, locations, and overall dimensions of each sign.
- C. Samples: Submit two samples of each type of sign, of size similar to that required for project, indicating sign style, font, and method of attachment.
- D. Selection Samples: Where colors, materials, and finishes are not specified, submit two sets of color selection charts or chips.
- E. Manufacturer's Installation Instructions: Include installation templates and attachment devices.

**1.04 DELIVERY, STORAGE, AND HANDLING**

- A. Package signs as required to prevent damage before installation.
- B. Package room and door signs in sequential order of installation, labeled by floor or building.
- C. Store tape adhesive at normal room temperature.

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS**

- A. Panel Signage:
  - 1. Best Sign Systems, Inc; \_\_\_\_: [www.bestsigns.com/#sle](http://www.bestsigns.com/#sle).
  - 2. Mohawk Sign Systems, Inc; \_\_\_\_: [www.mohawksign.com/#sle](http://www.mohawksign.com/#sle).
  - 3. Seton Identification Products; \_\_\_\_: [www.seton.com/aec/#sle](http://www.seton.com/aec/#sle).
  - 4. Substitutions: See Section 01 6000 - Product Requirements.

**2.02 REGULATORY REQUIREMENTS**

- A. Accessibility Requirements: Comply with ADA Standards and ICC A117.1 and applicable building codes, unless otherwise indicated; in the event of conflicting requirements, comply with the most restrictive requirements.

**2.03 PANEL SIGNAGE**

- A. Panel Signage Type \_\_\_\_:
  - 1. Application: Room and door signs.
  - 2. Description: Flat signs with engraved panel media, tactile characters.
  - 3. Sign Size: 4 inches by 6 inches.
  - 4. Total Thickness: 1/8 inch.
  - 5. Color and Font, unless otherwise indicated:
    - a. Character Font: Helvetica, Arial, or other sans serif font.
    - b. Character Case: Upper and lower case (title case).
    - c. Background Color: As scheduled.
    - d. Character Color: Contrasting color.
  - 6. Material: Laminated colored plastic engraved through face to expose core as background color.
  - 7. Profile: Flat panel in aluminum frame.
    - a. Frame Finish: Black anodized.

8. Tactile Letters: Raised 1/32 inch minimum.
9. Braille: Grade II, ADA-compliant.

#### **2.04 SIGNAGE APPLICATIONS**

- A. Room and Door Signs:
  1. Office Doors: Identify with the room names and numbers indicated on drawings.
  2. Conference and Meeting Rooms: Identify with the room names and numbers indicated on drawings.
  3. Service Rooms: Identify with room names and numbers indicated on drawings.
  4. Rest Rooms: , Identify with pictograms single use Restrooms and braille.
- B. Traffic Signs: To match campus standards; locate where indicated on drawings.

#### **2.05 ACCESSORIES**

- A. Concealed Screws: Noncorroding metal; stainless steel, galvanized steel, chrome plated, or other.
- B. Exposed Screws: Chrome plated.
- C. Tape Adhesive: Double-sided tape, permanent adhesive.

### **PART 3 EXECUTION**

#### **3.01 EXAMINATION**

- A. Verify that substrate surfaces are ready to receive work.
- B. Notify Architect if conditions are not suitable for installation of signs; do not proceed until conditions are satisfactory.

#### **3.02 INSTALLATION**

- A. Install in accordance with manufacturer's instructions.
- B. Install with horizontal edges level.
- C. Locate panel signs and mount at heights indicated on drawings and in accordance with ADA Standards and ICC A117.1.
- D. Protect from damage until mm-dd-yyyy; repair or replace damaged items.

**END OF SECTION**